



Full wwPDB EM Validation Report ⓘ

Feb 22, 2024 – 08:02 PM EST

PDB ID : 4V66
EMDB ID : EMD-1056
Title : Structure of the E. coli ribosome and the tRNAs in Post-accommodation state
Authors : Devkota, B.; Caulfield, T.R.; Tan, R.-Z.; Harvey, S.C.
Deposited on : 2008-08-03
Resolution : 9.00 Å(reported)
Based on initial models : 1EHZ, 2I2P

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

EMDB validation analysis : 0.0.1.dev70
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36

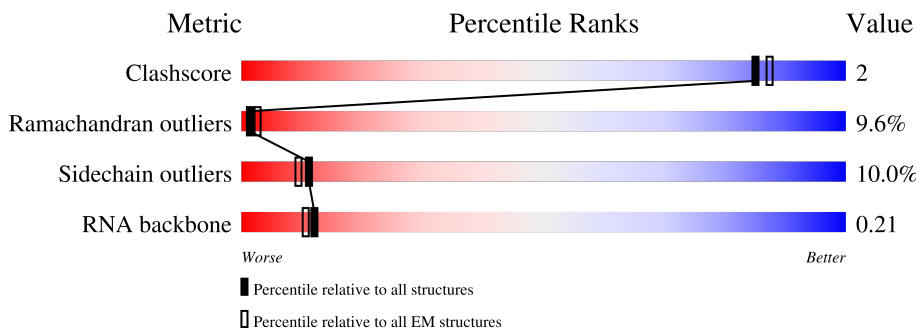
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 9.00 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826
RNA backbone	4643	859

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	AA	76	64% (Poor fit), 22% (≥3 outliers), 37% (≥2 outliers), 39% (≥1 outlier), 0% (0 outliers)
1	AE	76	54% (Poor fit), 22% (≥3 outliers), 62% (≥2 outliers), 16% (≥1 outlier), 0% (0 outliers)
1	AP	76	57% (Poor fit), 21% (≥3 outliers), 53% (≥2 outliers), 25% (≥1 outlier), 0% (0 outliers)
2	AM	20	10% (Poor fit), 15% (≥3 outliers), 30% (≥2 outliers), 55% (≥1 outlier), 0% (0 outliers)
3	A1	1530	66% (Poor fit), 15% (≥3 outliers), 47% (≥2 outliers), 38% (≥1 outlier), 0% (0 outliers)
4	AB	241	70% (Poor fit), 61% (≥3 outliers), 23% (≥2 outliers), 5% (≥1 outlier), 10% (0 outliers)
5	AC	129	46% (Poor fit), 57% (≥3 outliers), 26% (≥2 outliers), 5% (≥1 outlier), 9% (0 outliers)

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Mol	Chain	Length	Quality of chain
6	AD	124	73% 56% 31% 10% ..
7	AF	118	53% 53% 35% 8% ..
8	AG	101	86% 65% 24% . . 5%
9	AH	89	83% 62% 30% 6% ..
10	AI	82	100% 57% 34% 9%
11	AJ	84	73% 56% 30% 8% . 5%
12	AK	75	25% 36% 29% 8% 27%
13	AL	92	83% 51% 24% 9% . 14%
14	AN	87	57% 64% 28% 6% .
15	AO	233	28% 61% 23% . . 12%
16	AQ	71	42% 37% 27% 7% . 28%
17	AR	206	53% 64% 28% 7%
18	AS	159	32% 62% 25% 8% 6%
19	AT	135	53% 42% 24% 7% . 26%
20	AU	179	39% 48% 29% 6% . 16%
21	AV	130	50% 62% 31% 5% ..
22	AW	130	82% 58% 29% 9% ..
23	AX	103	71% 59% 27% 8% . 5%
24	BA	117	66% 20% 44% 36%
25	BB	2903	55% 15% 43% 42%
26	BC	94	72% 67% 31% .
27	BD	123	57% 63% 32% . .
28	BE	144	60% 55% 31% 12% .
29	BF	136	63% 55% 29% 12% .
30	BG	127	39% 55% 36% 9%

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Mol	Chain	Length	Quality of chain
31	BH	117	55% 60% 33% . .
32	BI	115	52% 61% 28% 9% ..
33	BJ	118	81% 58% 28% 13% ..
34	BK	103	92% 50% 39% 10% .
35	BL	110	46% 59% 30% 10% .
36	BM	99	71% 60% 30% 7% .
37	BN	270	59% 50% 36% 11% ..
38	BO	103	99% 53% 29% 15% ..
39	BP	85	34% 46% 45% 7% ..
40	BQ	63	51% 62% 29% 8% .
41	BR	59	53% 63% 25% 7% ..
42	BS	70	71% 60% 33% 7%
43	BT	57	44% 44% 39% 12% . .
44	BU	54	78% 65% 26% 9%
45	BV	46	50% 57% 30% 9% .
46	BW	64	69% 45% 33% 16% 6%
47	BX	38	71% 55% 34% 11%
48	BY	209	38% 58% 30% 9% .
49	BZ	213	95% 68% 25% 6% .
50	B1	201	72% 54% 33% 11% .
51	B2	178	33% 58% 33% 8% .
52	B3	177	79% 67% 27% . . .
53	B4	149	93% 70% 26% .
54	B5	142	38% 70% 23% 5% ..
55	B6	140	47% 57% 26% 14% .

2 Entry composition i

There are 55 unique types of molecules in this entry. The entry contains 149248 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a RNA chain called A/T, P and E-site tRNAs.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
1	AA	75	1600	715	288	523	74	0	0
1	AP	75	1600	715	288	523	74	0	0
1	AE	76	1622	725	293	529	75	0	0

- Molecule 2 is a RNA chain called mRNA model.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
2	AM	20	397	180	40	158	19	0	0

- Molecule 3 is a RNA chain called 16S rRNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
3	A1	1530	32828	14642	6024	10633	1529	0	0

- Molecule 4 is a protein called 30S ribosomal protein S2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	AB	218	1704	1081	305	311	7	0	0

- Molecule 5 is a protein called 30S ribosomal protein S11.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
5	AC	117	876	540	174	159	3	0	0

- Molecule 6 is a protein called 30S ribosomal protein S12.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	AD	123	Total	C	N	O	S	0	0
			954	590	196	164	4		

- Molecule 7 is a protein called 30S ribosomal protein S13.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	AF	114	Total	C	N	O	S	0	0
			883	546	178	156	3		

- Molecule 8 is a protein called 30S ribosomal protein S14.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	AG	96	Total	C	N	O	S	0	0
			773	483	160	127	3		

- Molecule 9 is a protein called 30S ribosomal protein S15.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	AH	88	Total	C	N	O	S	0	0
			715	440	146	128	1		

- Molecule 10 is a protein called 30S ribosomal protein S16.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	AI	82	Total	C	N	O	S	0	0
			648	406	128	113	1		

- Molecule 11 is a protein called 30S ribosomal protein S17.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	AJ	80	Total	C	N	O	S	0	0
			648	411	121	113	3		

- Molecule 12 is a protein called 30S ribosomal protein S18.

Mol	Chain	Residues	Atoms				AltConf	Trace
12	AK	55	Total	C	N	O	0	0
			455	288	86	81		

- Molecule 13 is a protein called 30S ribosomal protein S19.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	AL	79	Total	C	N	O	S	0	0
			637	408	120	107	2		

- Molecule 14 is a protein called 30S ribosomal protein S20.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	AN	85	Total	C	N	O	S	0	0
			664	411	137	113	3		

- Molecule 15 is a protein called 30S ribosomal protein S3.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	AO	206	Total	C	N	O	S	0	0
			1624	1028	305	288	3		

- Molecule 16 is a protein called 30S ribosomal protein S21.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	AQ	51	Total	C	N	O	S	0	0
			425	265	86	73	1		

- Molecule 17 is a protein called 30S ribosomal protein S4.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	AR	205	Total	C	N	O	S	0	0
			1642	1026	315	297	4		

- Molecule 18 is a protein called 30S ribosomal protein S5.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	AS	150	Total	C	N	O	S	0	0
			1105	687	211	201	6		

- Molecule 19 is a protein called 30S ribosomal protein S6.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	AT	100	Total	C	N	O	S	0	0
			817	515	148	148	6		

- Molecule 20 is a protein called 30S ribosomal protein S7.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
20	AU	150	1174	730	226	214	4	0	0

- Molecule 21 is a protein called 30S ribosomal protein S8.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
21	AV	129	978	616	173	183	6	0	0

- Molecule 22 is a protein called 30S ribosomal protein S9.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
22	AW	127	1021	634	206	178	3	0	0

- Molecule 23 is a protein called 30S ribosomal protein S10.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
23	AX	98	786	493	150	142	1	0	0

- Molecule 24 is a RNA chain called 5S rRNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
24	BA	117	2504	1116	459	813	116	0	0

- Molecule 25 is a RNA chain called 23S rRNA.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
25	BB	2903	62317	27801	11467	20147	2902	0	0

- Molecule 26 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
26	BC	94	752	479	137	133	3	0	0

- Molecule 27 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
27	BD	121	930	582	179	164	5	0	0

- Molecule 28 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
28	BE	144	1052	654	207	189	2	0	0

- Molecule 29 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
29	BF	136	1073	686	205	176	6	0	0

- Molecule 30 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
30	BG	127	1007	621	204	177	5	0	0

- Molecule 31 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
31	BH	117	899	557	179	162	1	0	0

- Molecule 32 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
32	BI	114	916	574	179	162	1	0	0

- Molecule 33 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
33	BJ	117	946	604	192	150	0	0

- Molecule 34 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms					AltConf	Trace
34	BK	103	Total	C	N	O	S	0	0
			815	516	153	144	2		

- Molecule 35 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms					AltConf	Trace
35	BL	110	Total	C	N	O	S	0	0
			856	532	166	155	3		

- Molecule 36 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms					AltConf	Trace
36	BM	99	Total	C	N	O	S	0	0
			777	491	145	139	2		

- Molecule 37 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					AltConf	Trace
37	BN	267	Total	C	N	O	S	0	0
			2053	1271	416	359	7		

- Molecule 38 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms				AltConf	Trace
38	BO	102	Total	C	N	O	0	0
			779	492	146	141		

- Molecule 39 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					AltConf	Trace
39	BP	84	Total	C	N	O	S	0	0
			633	391	129	112	1		

- Molecule 40 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					AltConf	Trace
40	BQ	63	Total	C	N	O	S	0	0
			508	313	99	94	2		

- Molecule 41 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms					AltConf	Trace
41	BR	58	Total	C	N	O	S	0	0
			448	281	87	78	2		

- Molecule 42 is a protein called 50S ribosomal protein L31.

Mol	Chain	Residues	Atoms					AltConf	Trace
42	BS	70	Total	C	N	O	S	0	0
			548	339	104	99	6		

- Molecule 43 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					AltConf	Trace
43	BT	56	Total	C	N	O	S	0	0
			443	269	94	79	1		

- Molecule 44 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms				AltConf	Trace
44	BU	54	Total	C	N	O	0	0
			440	284	81	75		

- Molecule 45 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					AltConf	Trace
45	BV	46	Total	C	N	O	S	0	0
			376	228	90	56	2		

- Molecule 46 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					AltConf	Trace
46	BW	64	Total	C	N	O	S	0	0
			503	323	105	73	2		

- Molecule 47 is a protein called 50S ribosomal protein L36.

Mol	Chain	Residues	Atoms					AltConf	Trace
47	BX	38	Total	C	N	O	S	0	0
			301	185	65	47	4		

- Molecule 48 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
48	BY	209	1564	979	288	293	4	0	0

- Molecule 49 is a protein called 50S ribosomal protein L1P.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
49	BZ	213	1687	1078	300	308	1	0	0

There are 7 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BZ	1	MET	-	insertion	UNP P35024
BZ	?	-	MET	deletion	UNP P35024
BZ	70	SER	PHE	conflict	UNP P35024
BZ	82	LYS	ASN	conflict	UNP P35024
BZ	?	-	MET	deletion	UNP P35024
BZ	?	-	MET	deletion	UNP P35024
BZ	?	-	MET	deletion	UNP P35024

- Molecule 50 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
50	B1	201	1551	974	283	289	5	0	0

- Molecule 51 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
51	B2	178	1419	905	251	257	6	0	0

- Molecule 52 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
52	B3	176	1322	832	243	245	2	0	0

- Molecule 53 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
53	B4	149	1110	699	197	213	1	0	0

- Molecule 54 is a protein called 50S ribosomal protein L11.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
54	B5	141	1031	651	179	195	6	0	0

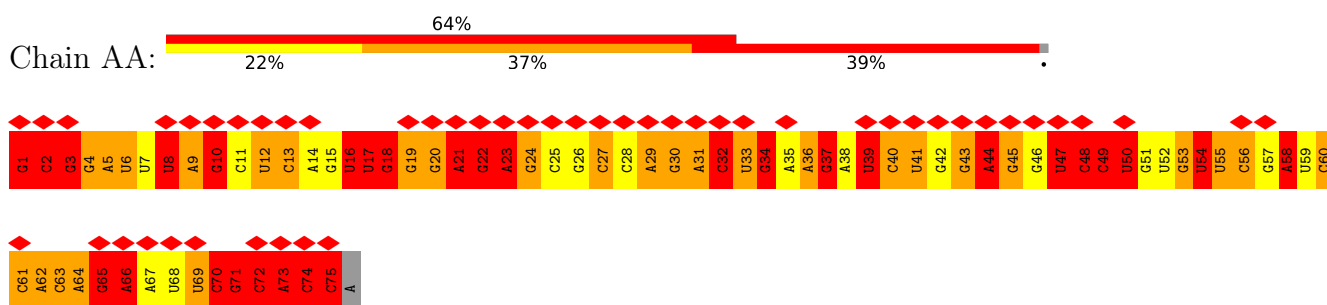
- Molecule 55 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
55	B6	140	1112	704	210	194	4	0	0

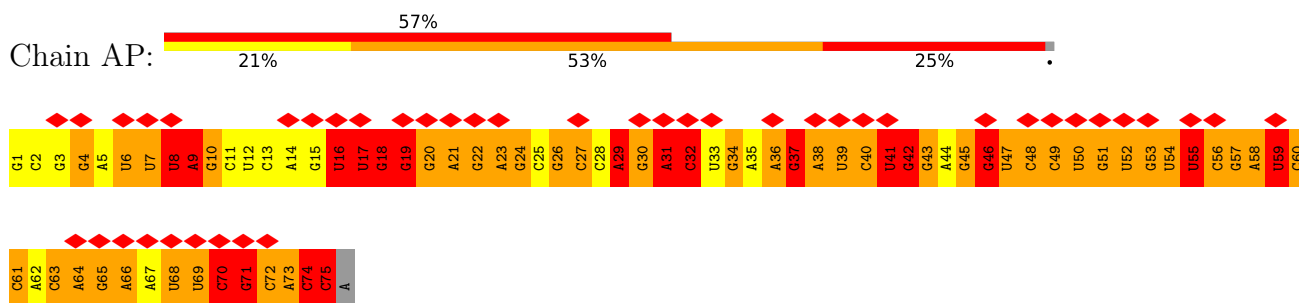
3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

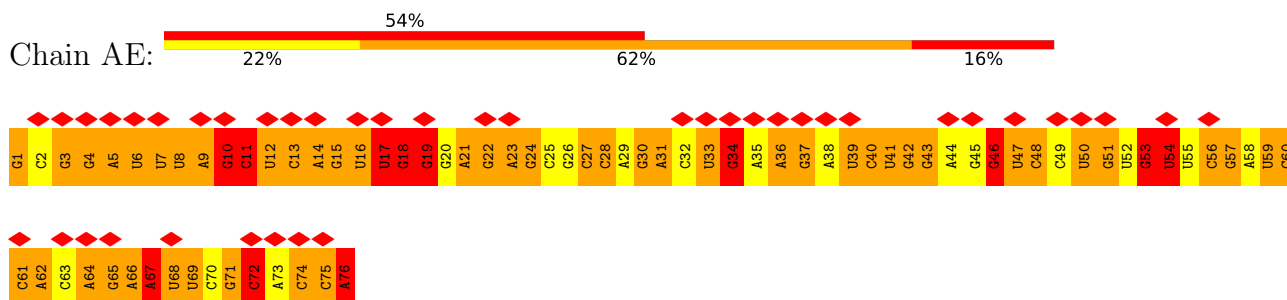
- Molecule 1: A/T, P and E-site tRNAs



- Molecule 1: A/T, P and E-site tRNAs

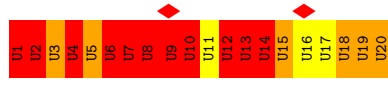


- Molecule 1: A/T, P and E-site tRNAs

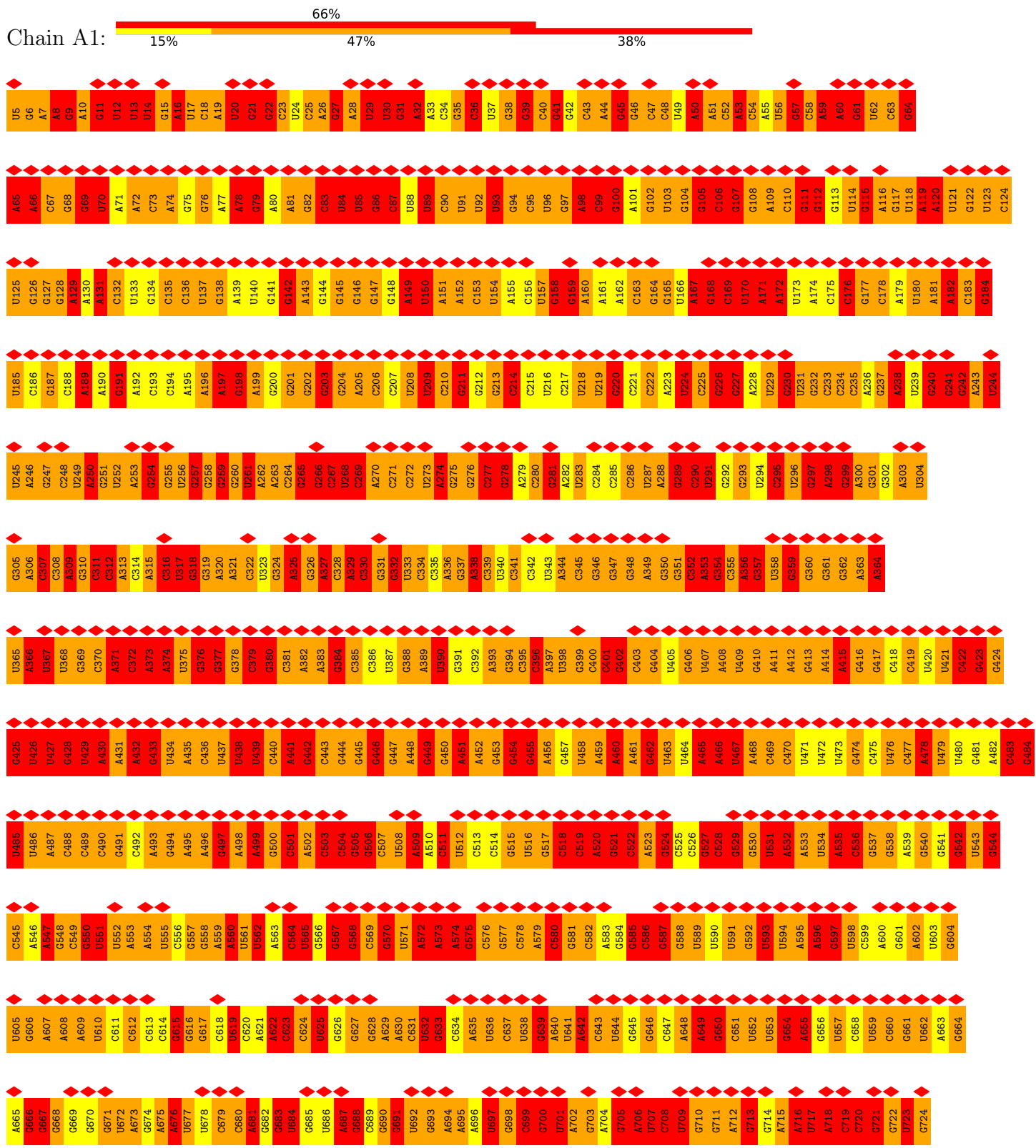


- Molecule 2: mRNA model





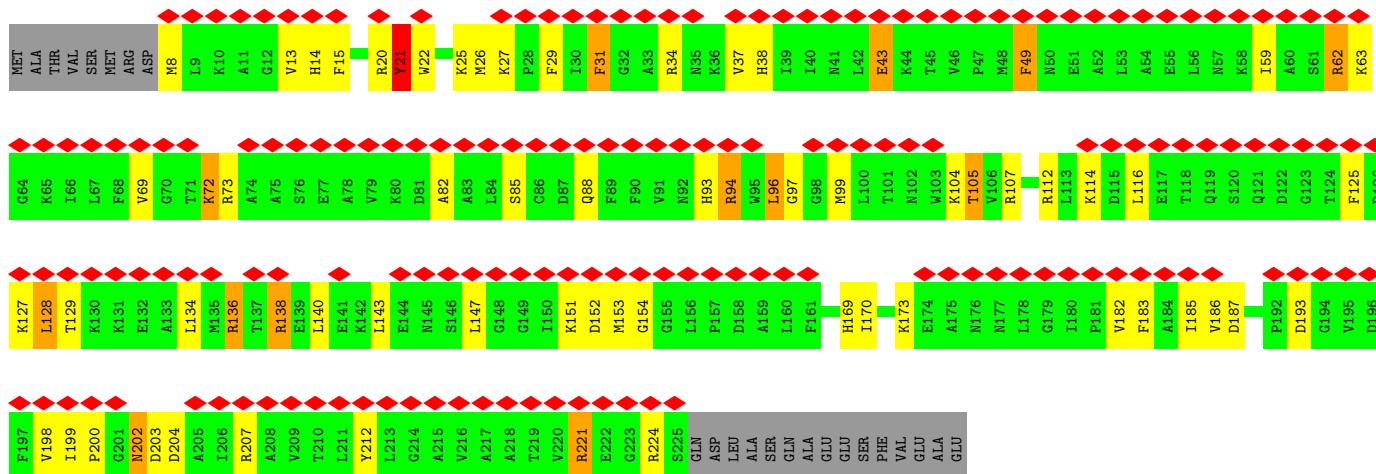
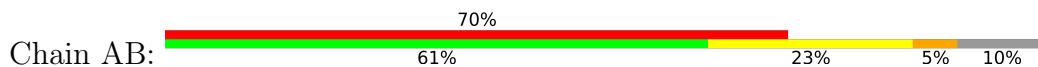
• Molecule 3: 16S rRNA



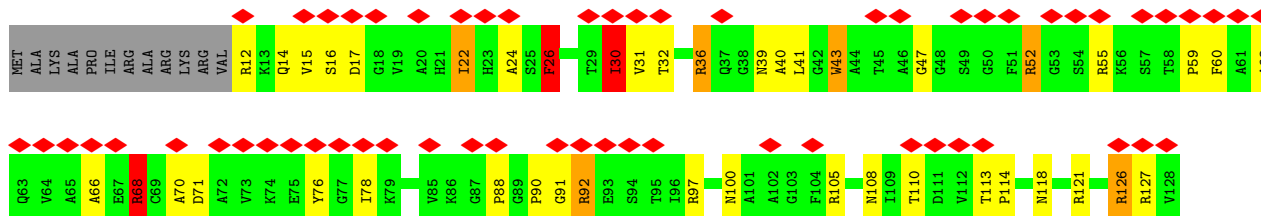
U1445	G1487	U1085	U1025	A845	G785	G725
A1446	G1488	U1086	G1026	G946	G786	C726
A1447	G1489	G1087	C1027	G947	A787	G727
C1448	U1488	G1088	C1028	C948	U788	A728
C1449	C1149	G1089	U1029	G949	U789	A729
U1450	U1210	U1090	U1030	U850	A790	G730
U1451	A1151	A1091	C1031	G851	G791	G731
G1452	A1152	A1092	G1032	G852	A792	C732
G1453	G1153	G1093	G1033	G853	U793	G733
G1454	G1154	G1094	A795	U854	A794	G734
G1455	G1155	U1095	G1034	C955	C795	C735
A1456	A1155	C1096	A1035	G857	G736	
G1457	G1156	G1097	A1036	G858	C737	
G1458	A1157	U1098	C1037	G859	U798	
G1459	A1158	G1099	C1038	G860	U799	
C1460	U1159	C1100	G1039	G861	G799	
G1461	G1160	A1101	U1040	C862	C739	
C1462	C1161	A1102	U1041	G863	U740	
C1463	G1162	C1103	G1042	A864	G741	
U1464	A1163	G1104	G1043	U865	G742	
A1465	G1164	A1105	U1044	C866	A743	
C1466	U1165	C1106	A1044	G867	C744	
C1467	G1166	U1107	C1045	C868	G745	
A1468	G1167	G1108	U1046	G869	A746	
C1469	A1167	A1109	A1047	U870	G747	
U1470	U1168	A1110	G1047	G871	A748	
U1471	A1169	A1111	G1048	A872	G748	
U1472	G1170	C1112	U1049	C873	A749	
G1473	A1171	C1113	G1050	U874	C750	
U1474	C1172	U1114	C1051	G875	U751	
U1475	U1173	U1115	U1052	C876	G752	
A1476	G1174	U1116	U1053	G877	A753	
G1477	G1175	A1117	G1054	A878	C754	
U1478	A1176	C1118	C1055	C879	G755	
C1479	U1177	U1119	U1056	G880	G756	
A1480	G1178	C1120	G1057	C881	C757	
U1481	A1179	U1121	G1058	G882	U757	
U1482	U1180	U1122	U1059	C883	C758	
G1483	G1181	U1123	U1060	U884	A759	
C1484	U1182	G1124	G1061	G885	G760	
U1485	G1183	U1125	C1062	G886	G761	
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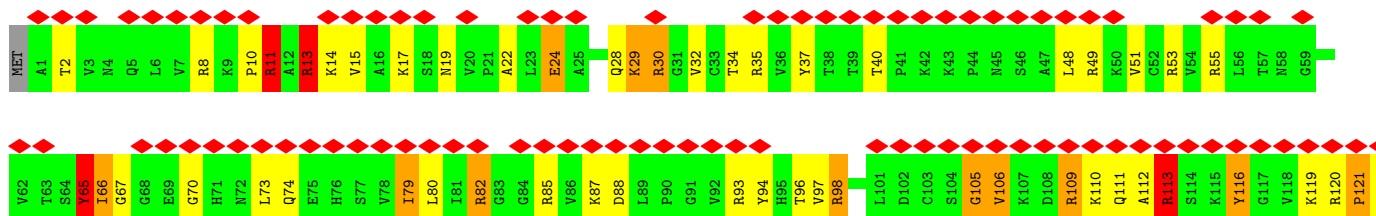
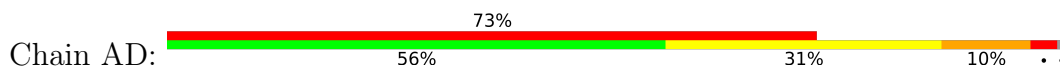
• Molecule 4: 30S ribosomal protein S2



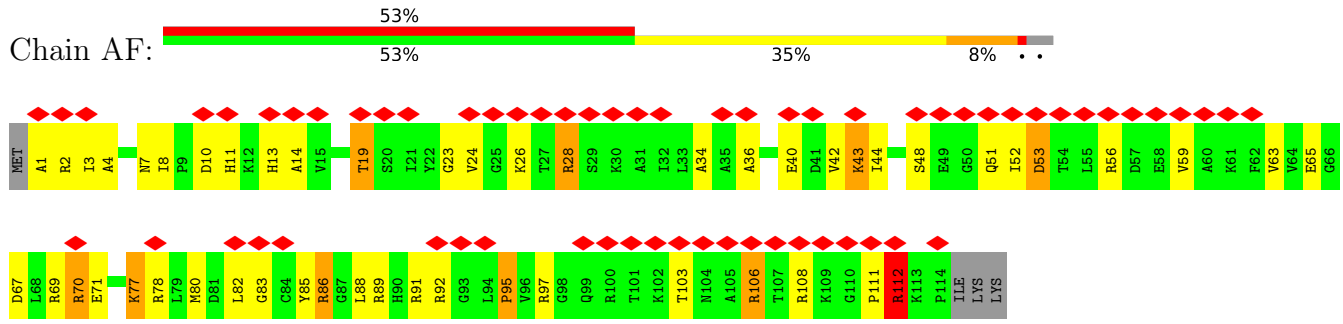
• Molecule 5: 30S ribosomal protein S11



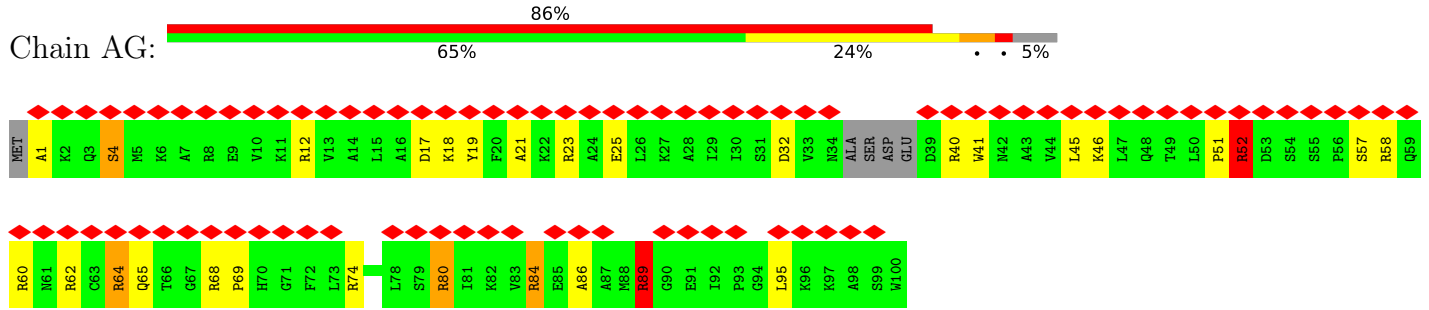
• Molecule 6: 30S ribosomal protein S12



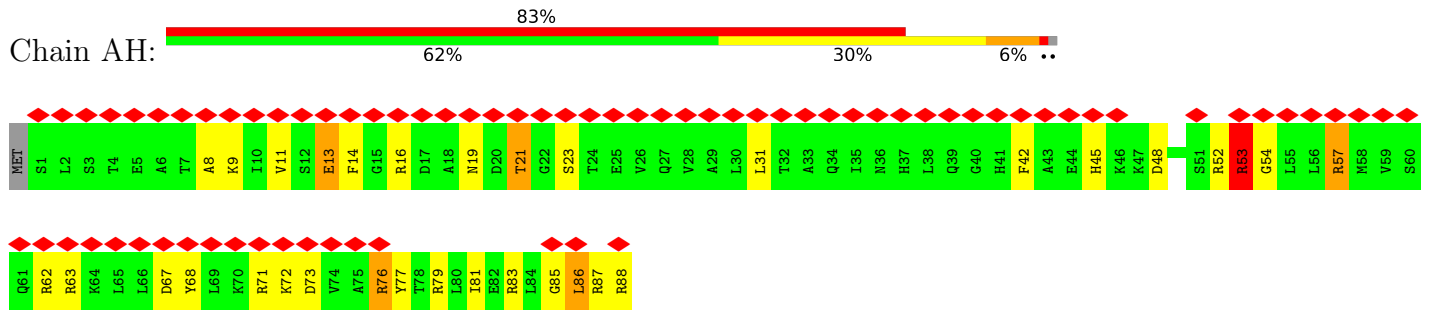
• Molecule 7: 30S ribosomal protein S13



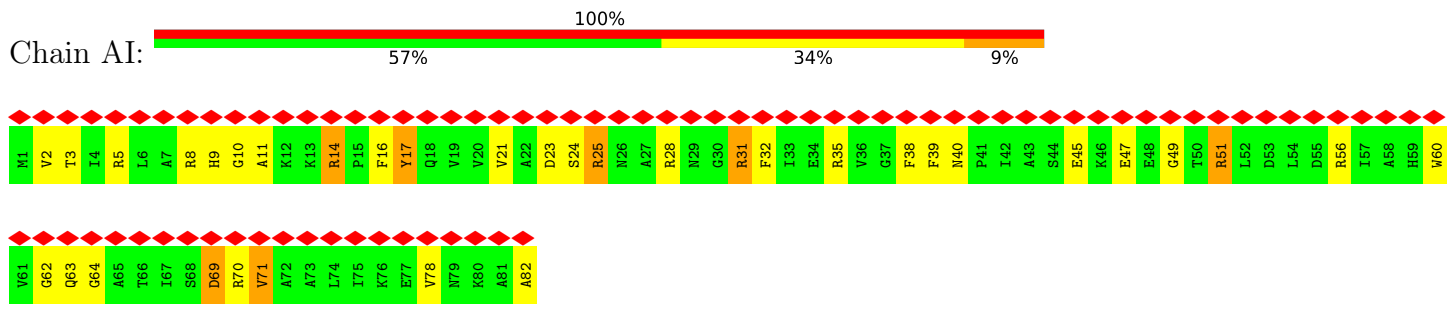
• Molecule 8: 30S ribosomal protein S14



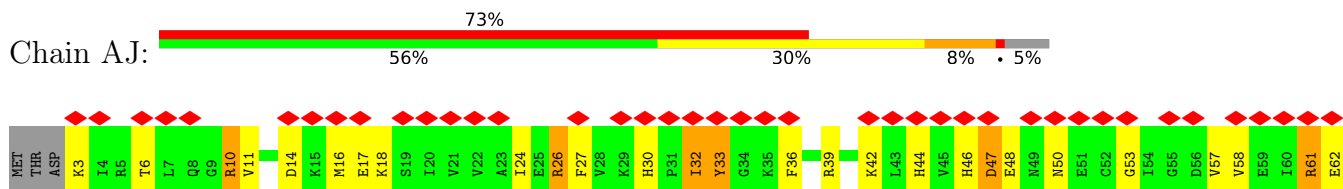
• Molecule 9: 30S ribosomal protein S15

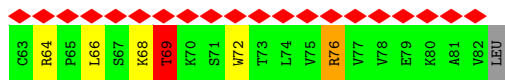


• Molecule 10: 30S ribosomal protein S16

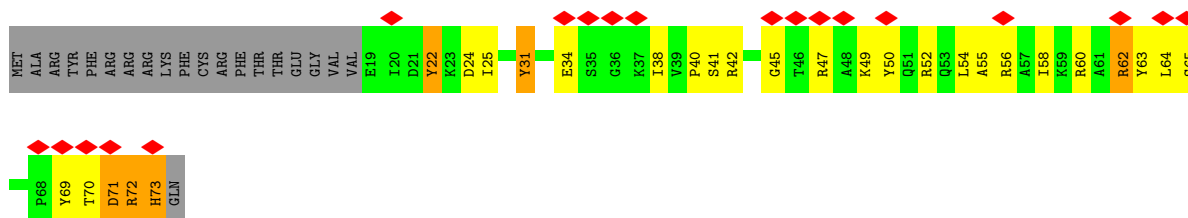


• Molecule 11: 30S ribosomal protein S17

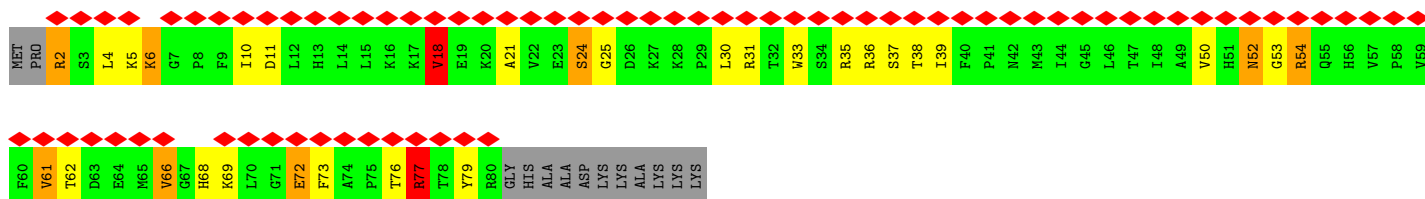
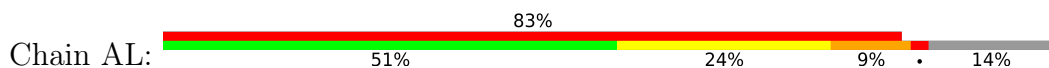




• Molecule 12: 30S ribosomal protein S18



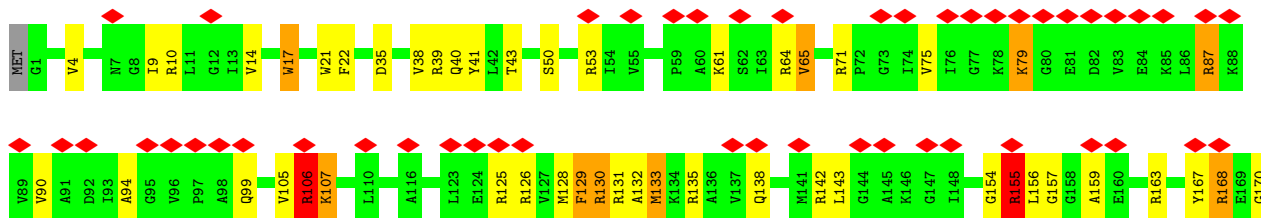
• Molecule 13: 30S ribosomal protein S19



• Molecule 14: 30S ribosomal protein S20

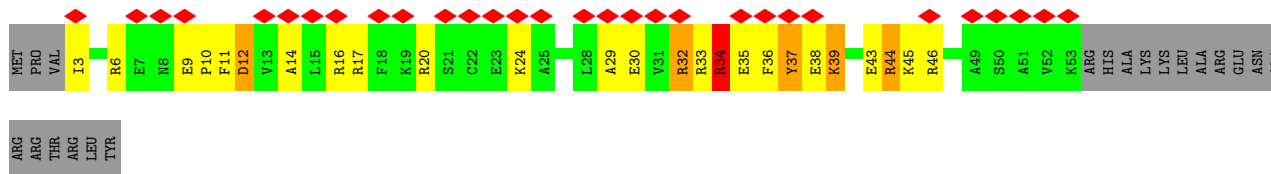
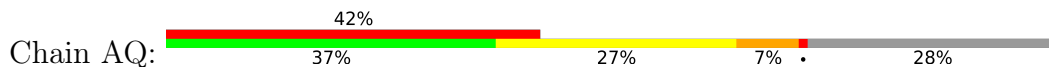


• Molecule 15: 30S ribosomal protein S3

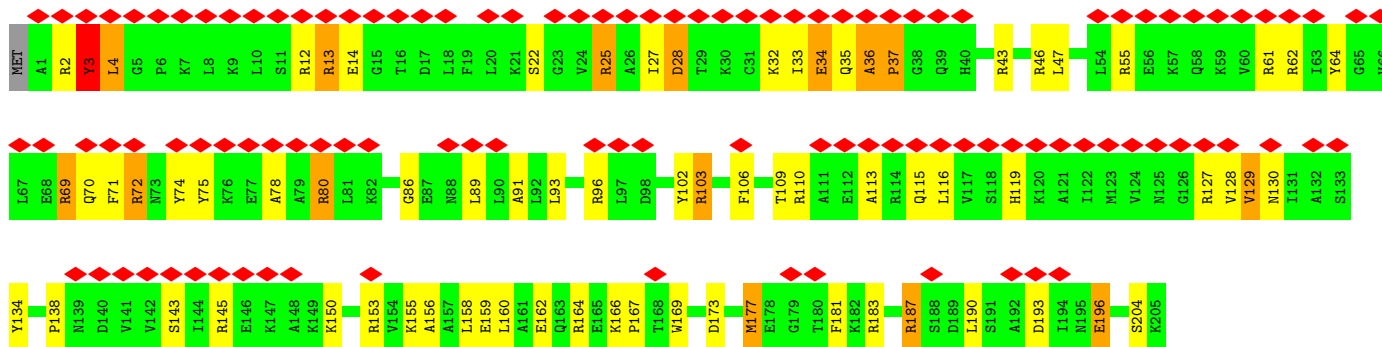




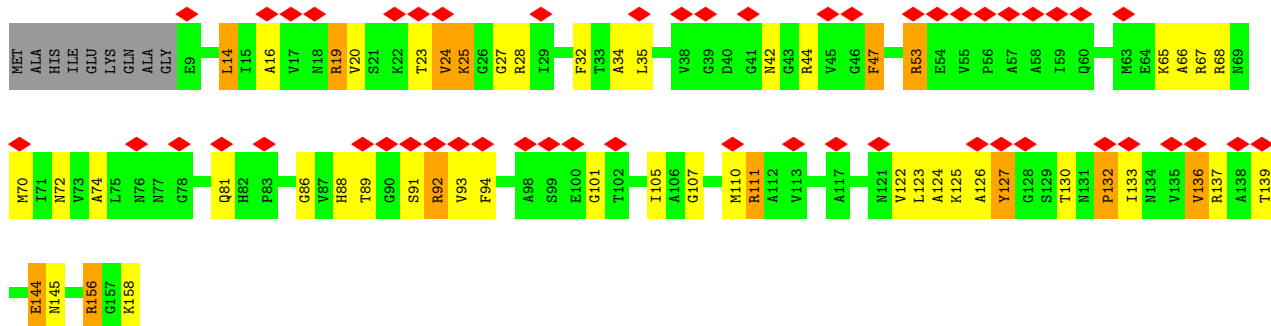
• Molecule 16: 30S ribosomal protein S21



• Molecule 17: 30S ribosomal protein S4

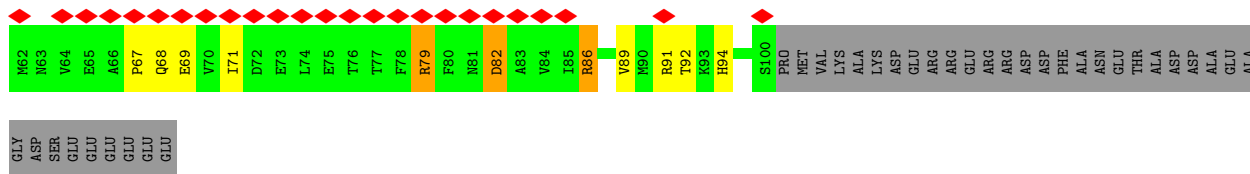


• Molecule 18: 30S ribosomal protein S5

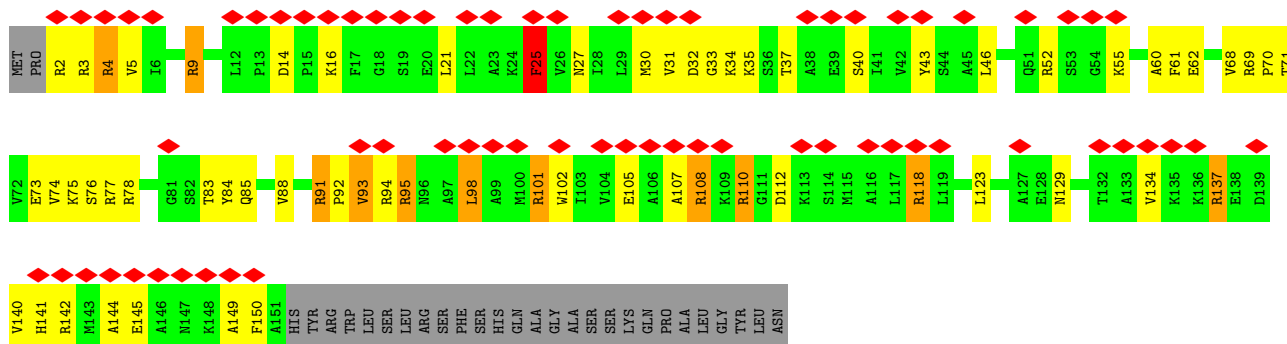
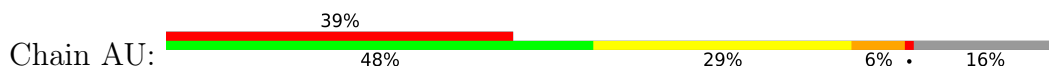


• Molecule 19: 30S ribosomal protein S6

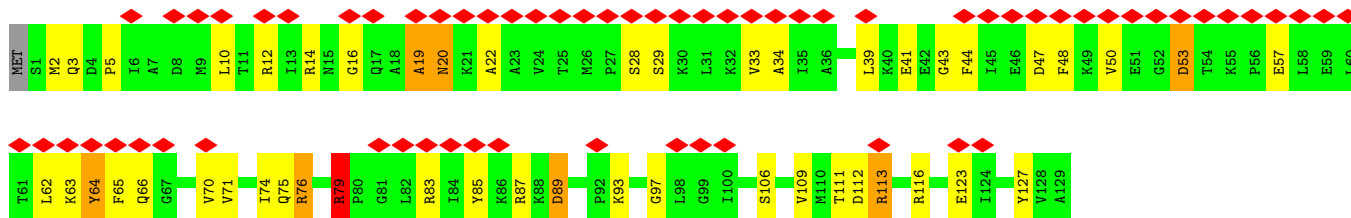




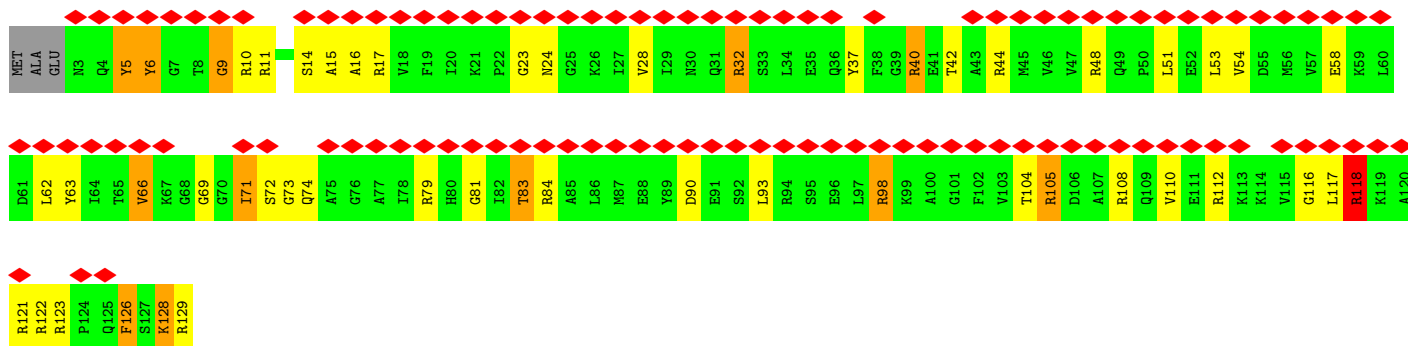
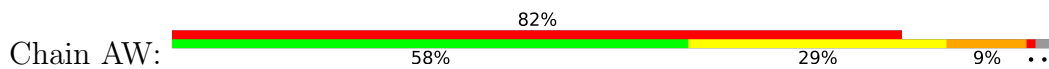
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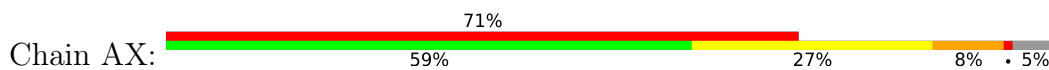
• Molecule 21: 30S ribosomal protein S8



• Molecule 22: 30S ribosomal protein S9

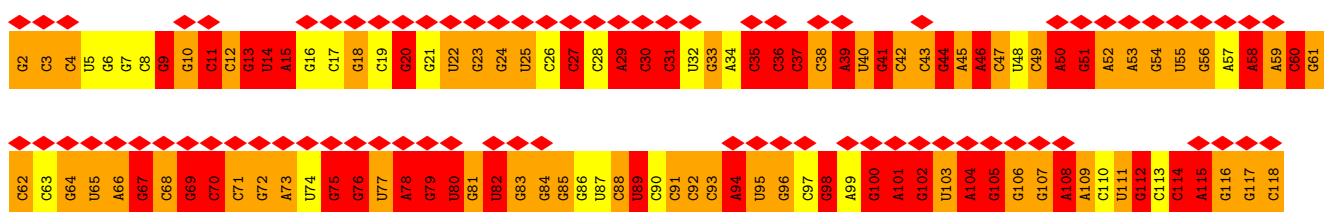
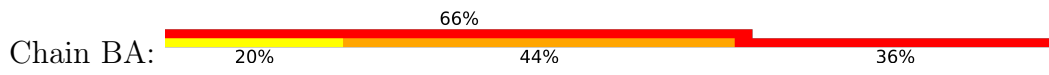


• Molecule 23: 30S ribosomal protein S10

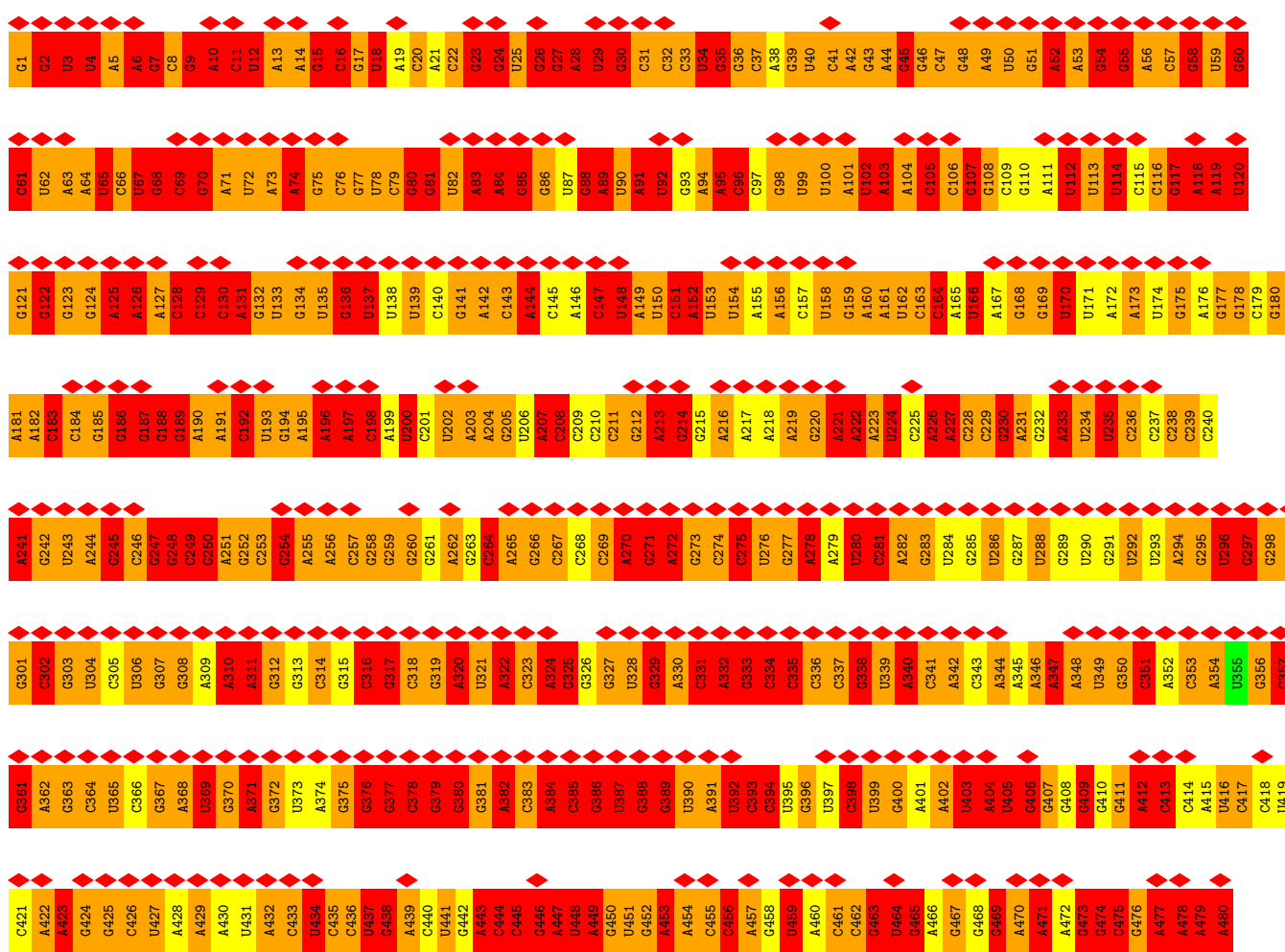
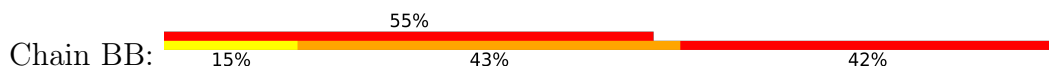




• Molecule 24: 5S rRNA



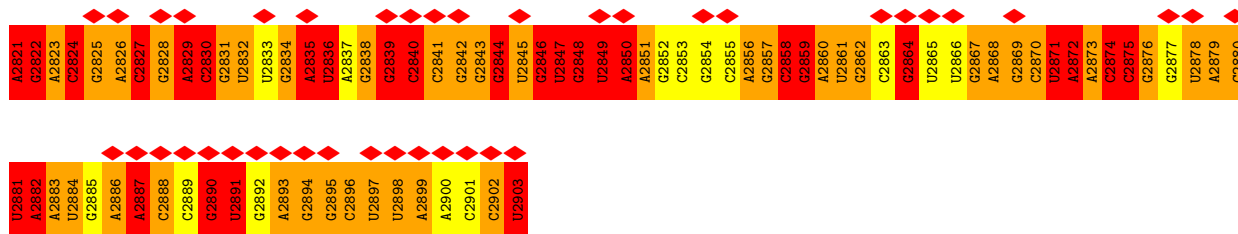
• Molecule 25: 23S rRNA



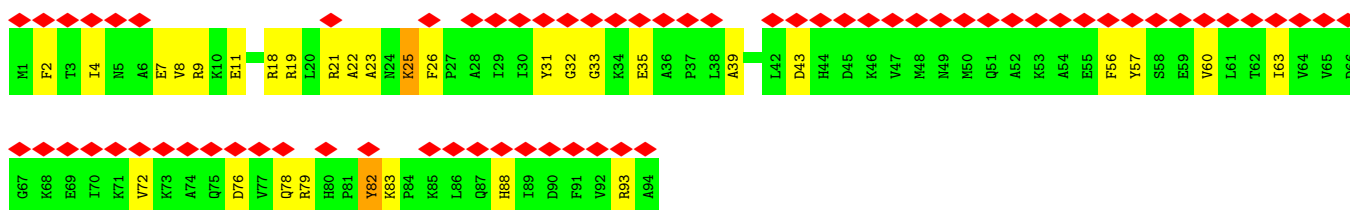
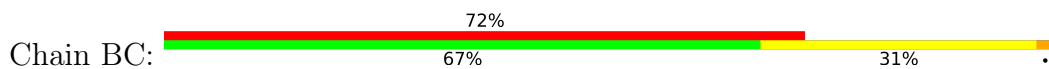
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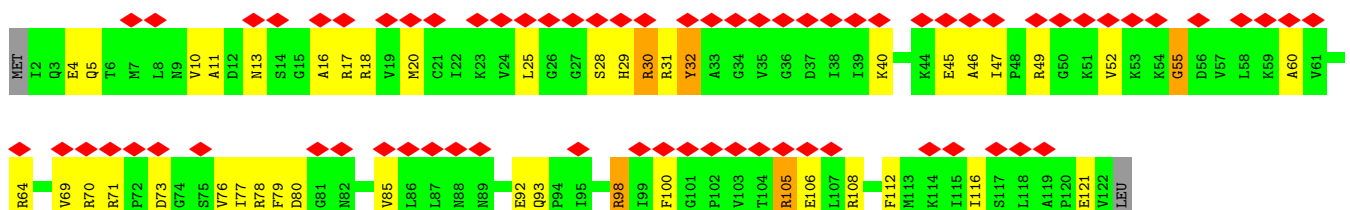
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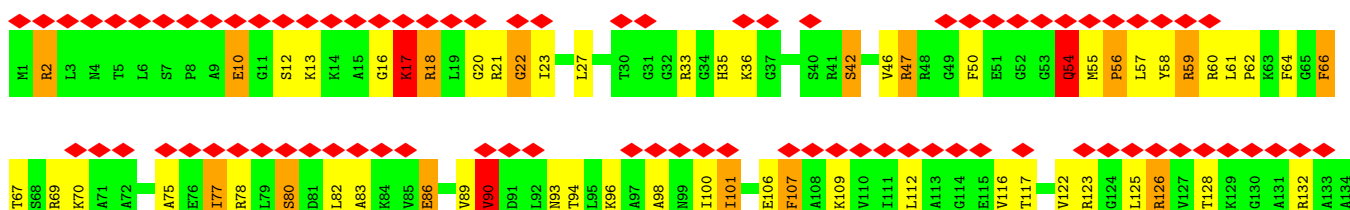
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• Molecule 27: 50S ribosomal protein L14

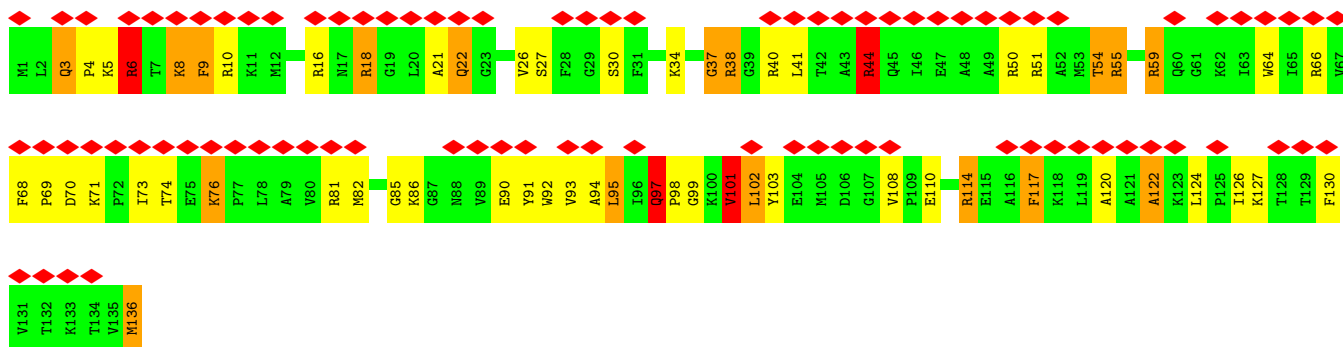


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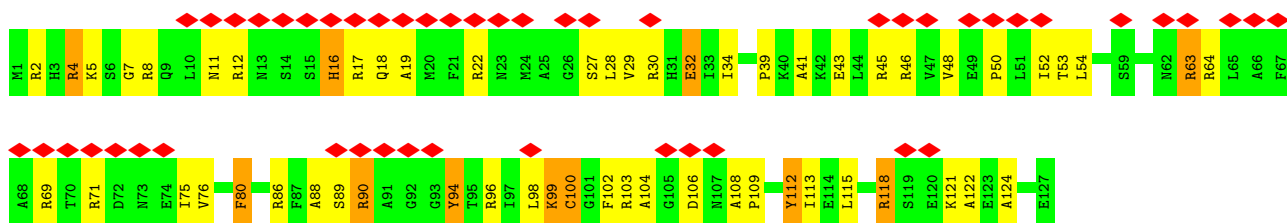
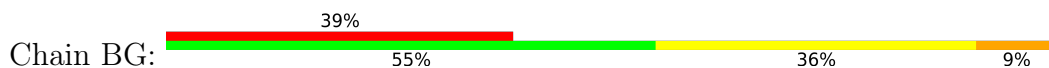


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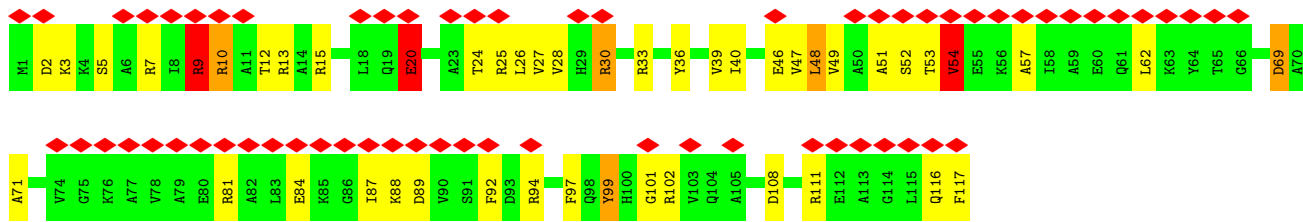




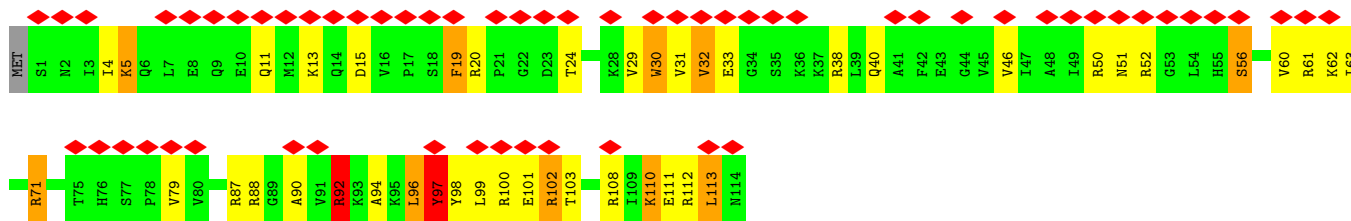
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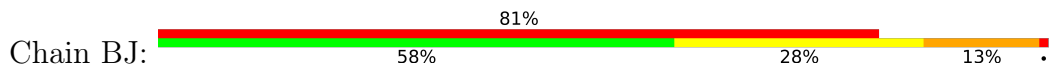
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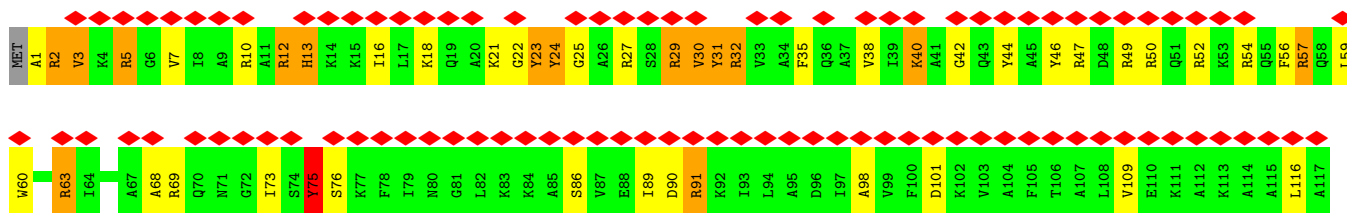


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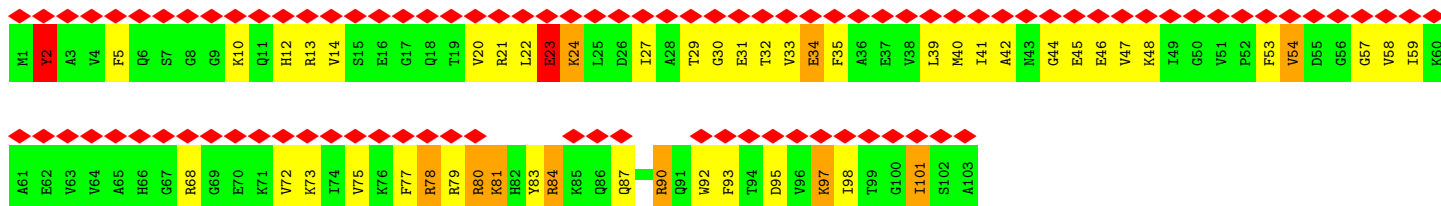


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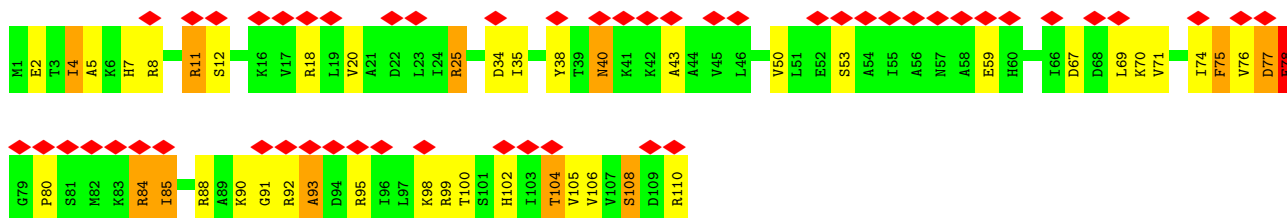




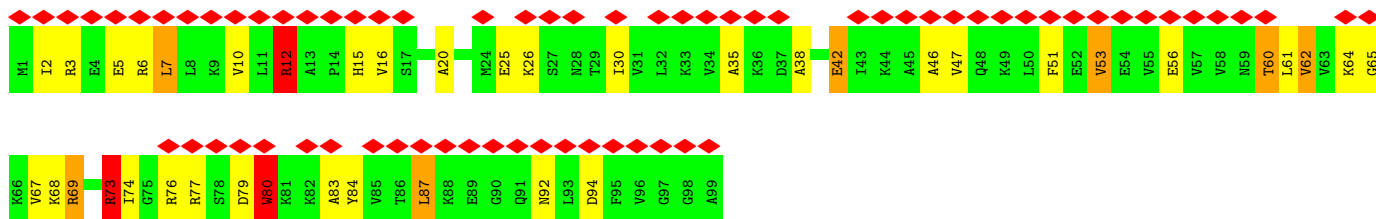
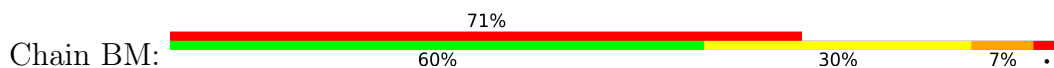
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• Molecule 35: 50S ribosomal protein L22

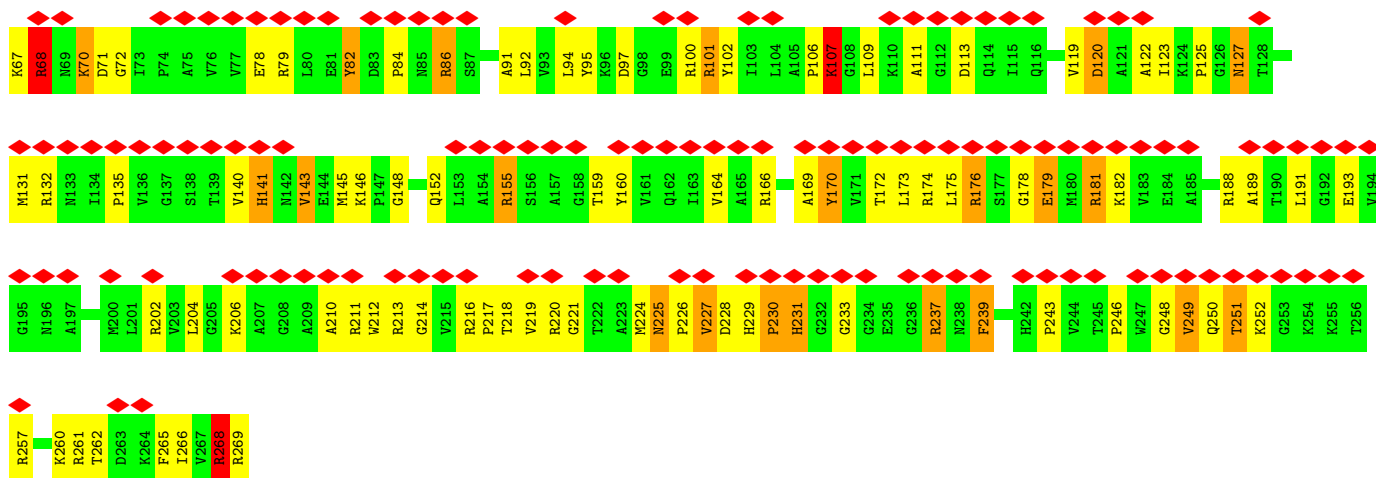


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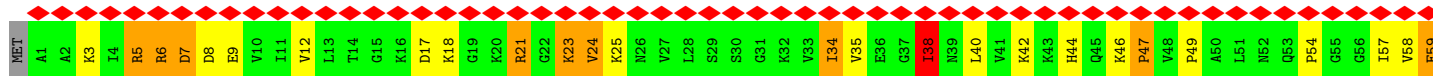


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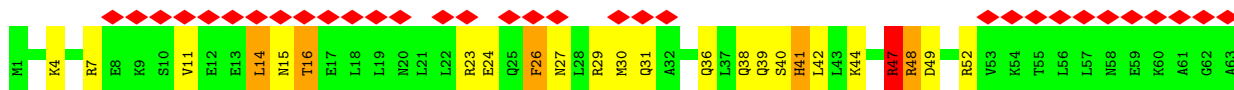
• Molecule 38: 50S ribosomal protein L24



• Molecule 39: 50S ribosomal protein L27

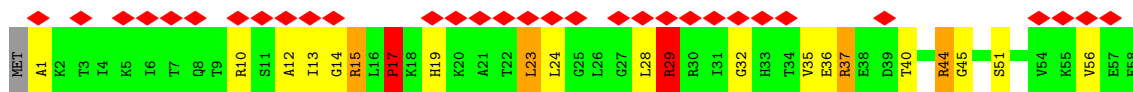


• Molecule 40: 50S ribosomal protein L29

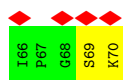
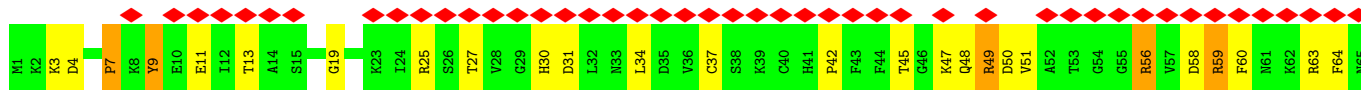
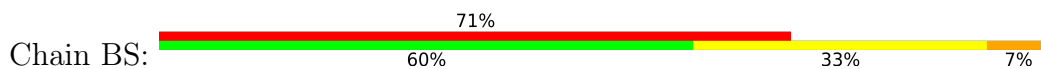


• Molecule 41: 50S ribosomal protein L30

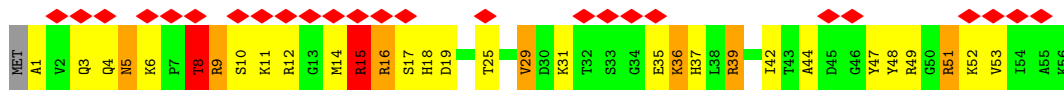
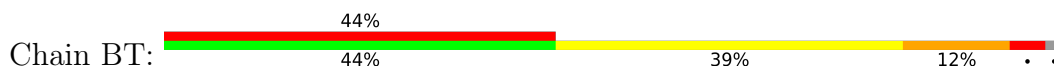




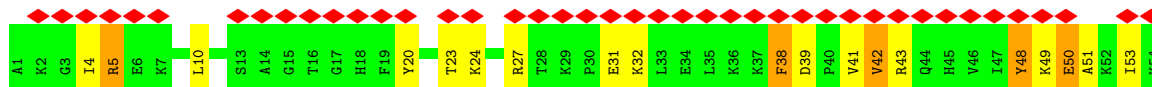
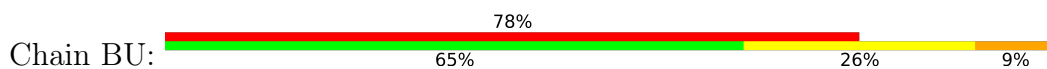
• Molecule 42: 50S ribosomal protein L31



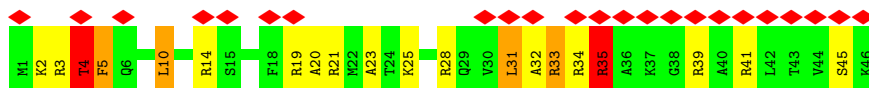
• Molecule 43: 50S ribosomal protein L32



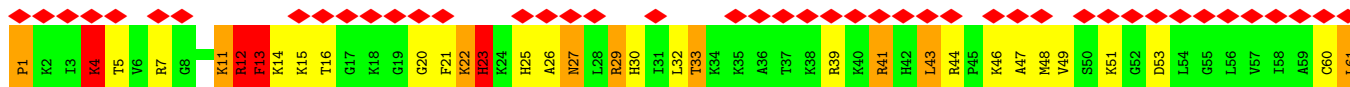
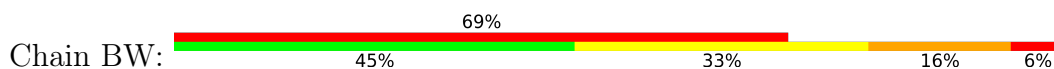
• Molecule 44: 50S ribosomal protein L33



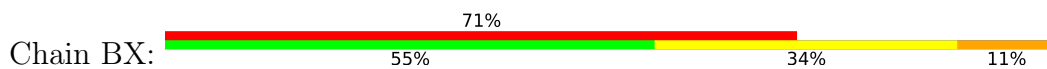
• Molecule 45: 50S ribosomal protein L34

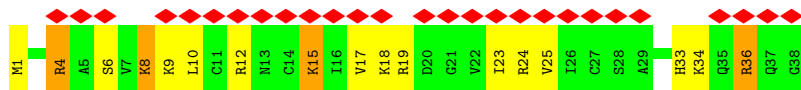


• Molecule 46: 50S ribosomal protein L35

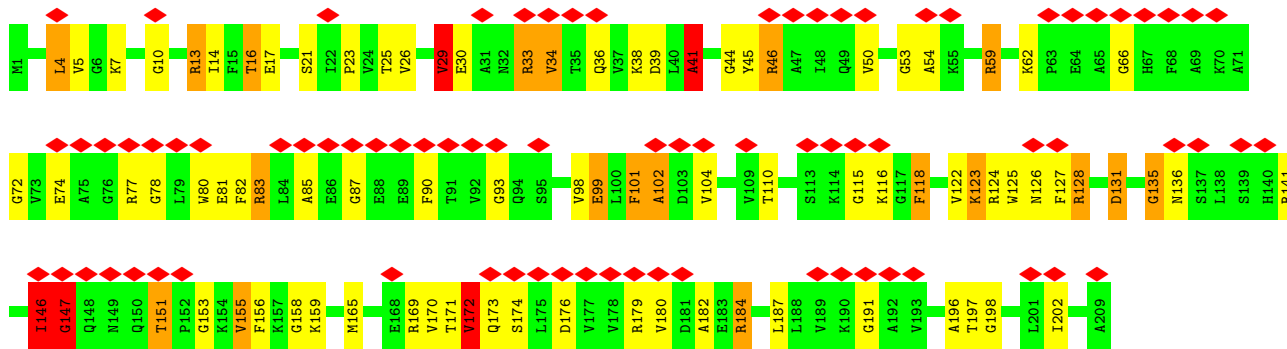
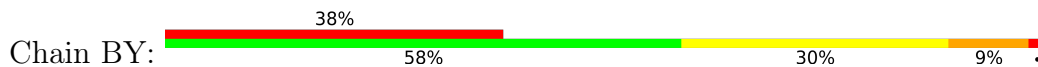


• Molecule 47: 50S ribosomal protein L36

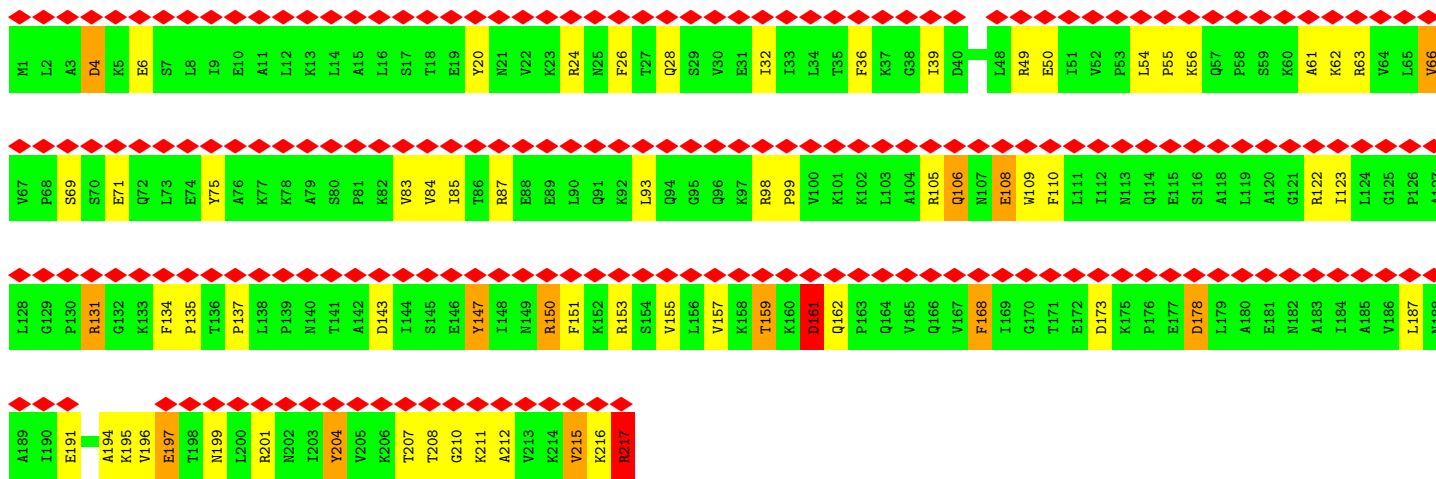




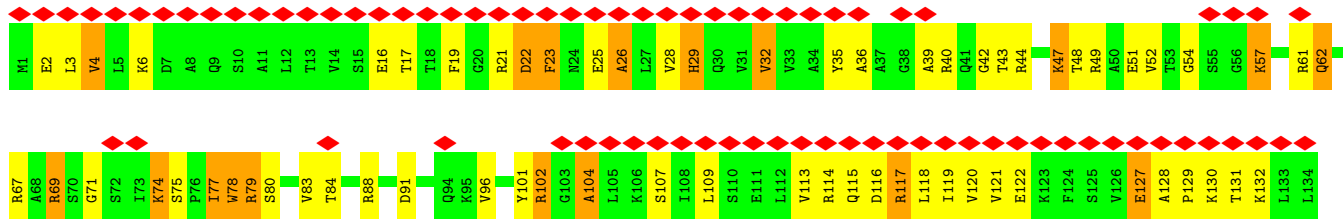
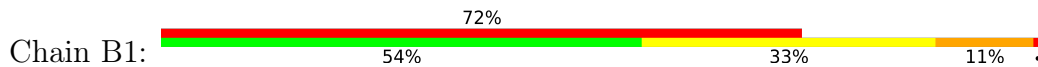
• Molecule 48: 50S ribosomal protein L3

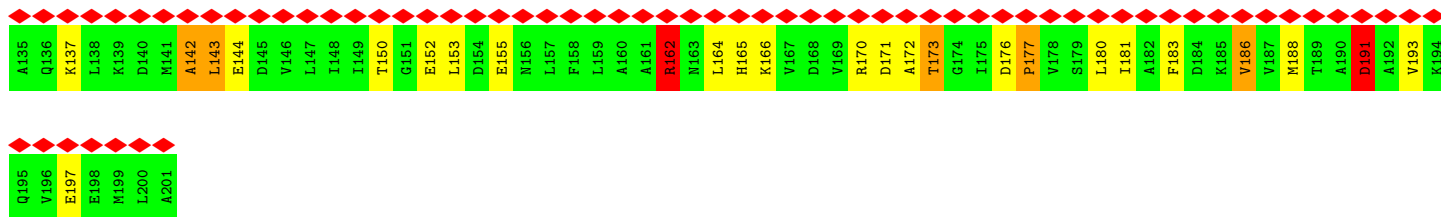


• Molecule 49: 50S ribosomal protein L1P

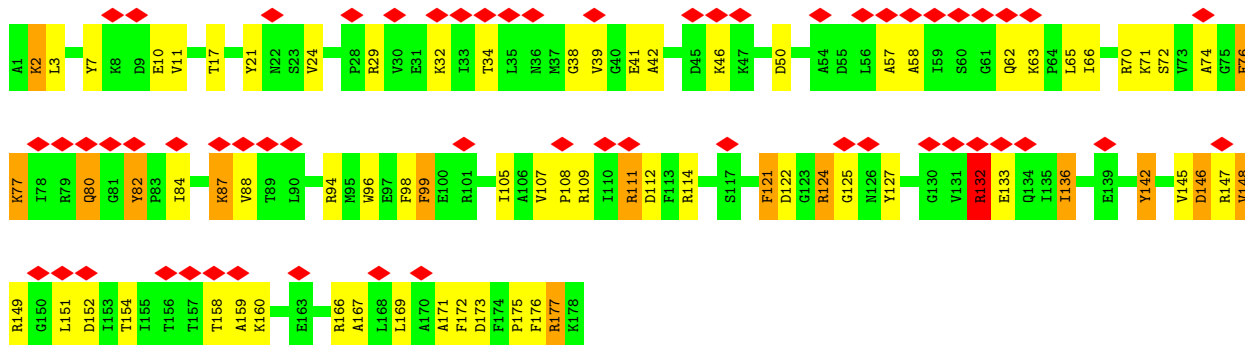


• Molecule 50: 50S ribosomal protein L4

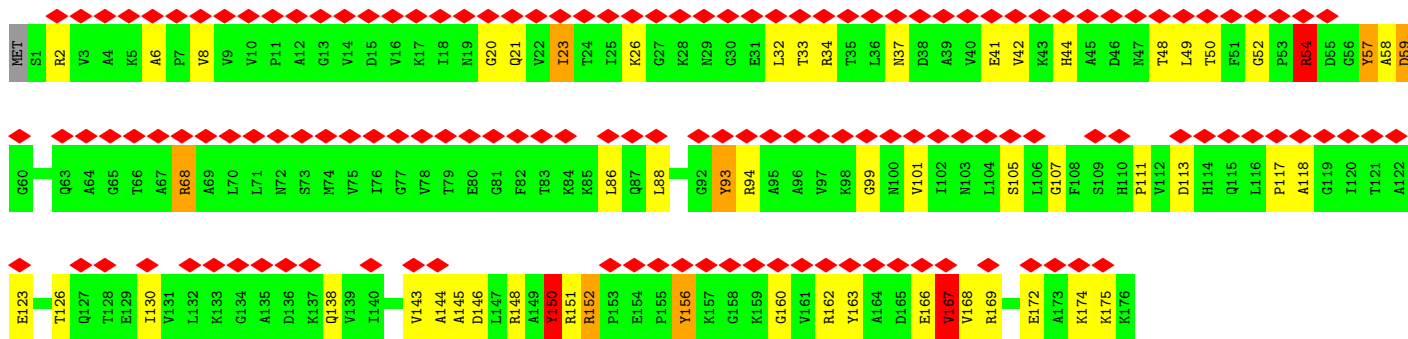
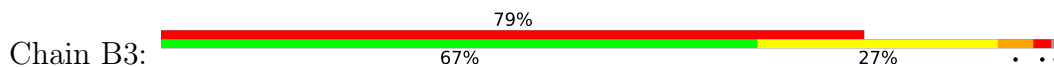




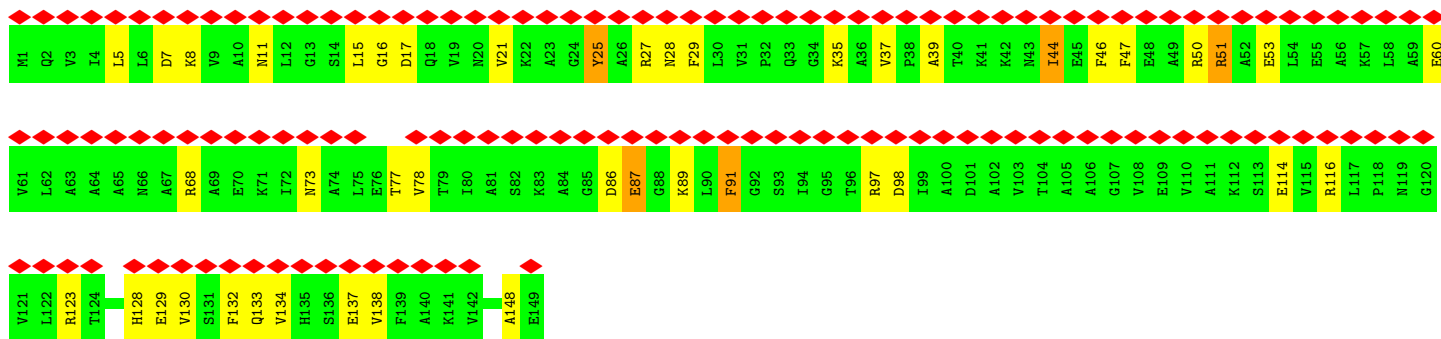
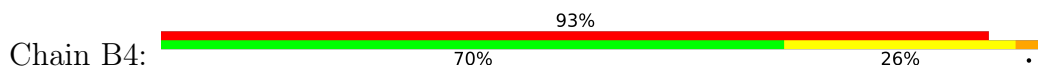
• Molecule 51: 50S ribosomal protein L5



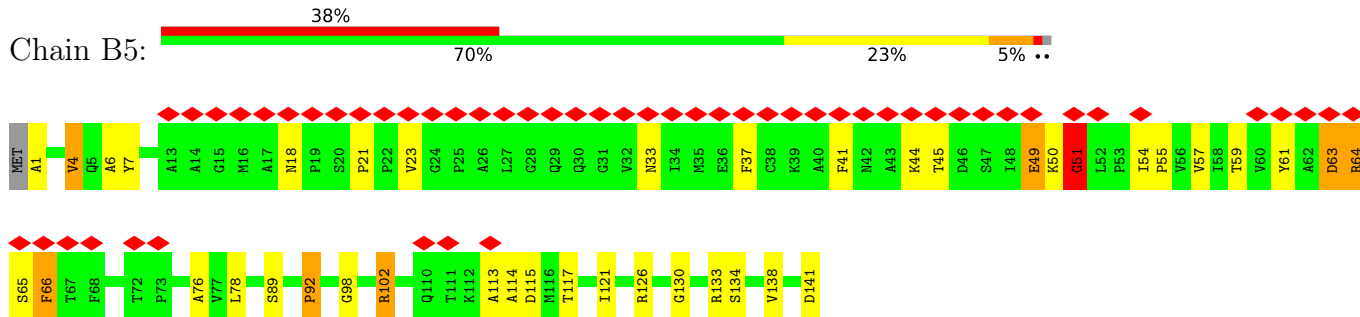
• Molecule 52: 50S ribosomal protein L6



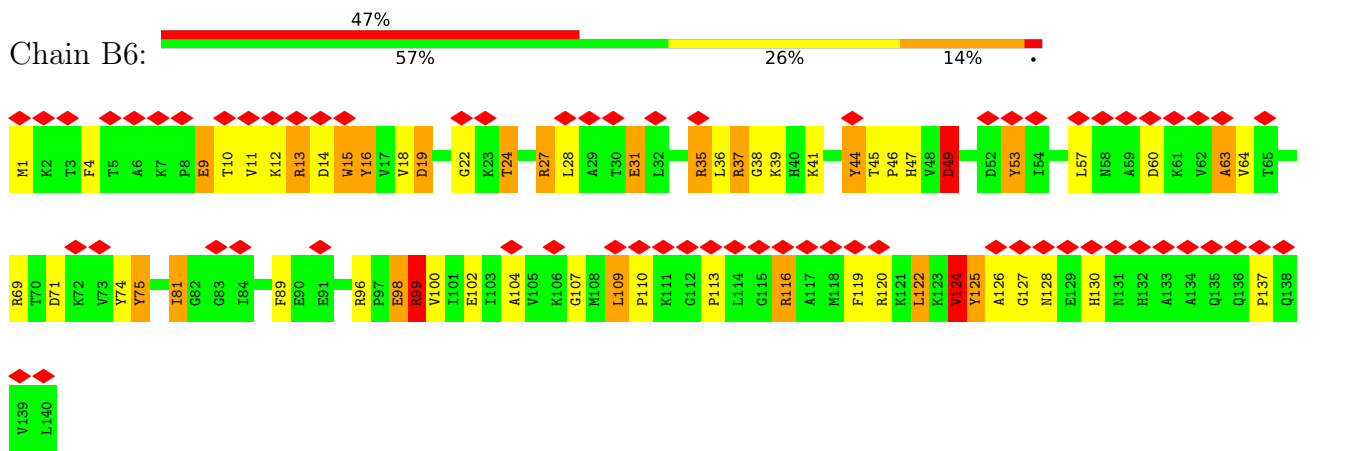
• Molecule 53: 50S ribosomal protein L9



• Molecule 54: 50S ribosomal protein L11



• Molecule 55: 50S ribosomal protein L13



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	52181	Depositor
Resolution determination method	Not provided	
CTF correction method	Not provided	
Microscope	FEI TECNAI F20	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	15	Depositor
Minimum defocus (nm)	2000	Depositor
Maximum defocus (nm)	4000	Depositor
Magnification	50000	Depositor
Image detector	KODAK SO-163 FILM	Depositor
Maximum map value	250.773	Depositor
Minimum map value	-142.587	Depositor
Average map value	1.513	Depositor
Map value standard deviation	24.331	Depositor
Recommended contour level	43.4	Depositor
Map size (\AA)	366.6, 366.6, 366.6	wwPDB
Map dimensions	130, 130, 130	wwPDB
Map angles ($^\circ$)	90, 90, 90	wwPDB
Pixel spacing (\AA)	2.82, 2.82, 2.82	Depositor

5 Model quality

5.1 Standard geometry

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	AA	3.40	236/1789 (13.2%)	4.38	561/2788 (20.1%)
1	AE	3.39	235/1814 (13.0%)	4.16	549/2827 (19.4%)
1	AP	4.04	200/1789 (11.2%)	4.62	517/2788 (18.5%)
2	AM	2.83	38/436 (8.7%)	3.84	119/672 (17.7%)
3	A1	3.49	4705/36759 (12.8%)	4.27	10939/57346 (19.1%)
4	AB	1.61	8/1735 (0.5%)	2.18	57/2338 (2.4%)
5	AC	1.67	7/892 (0.8%)	2.45	47/1205 (3.9%)
6	AD	1.69	12/968 (1.2%)	2.37	39/1300 (3.0%)
7	AF	1.58	5/892 (0.6%)	2.47	46/1193 (3.9%)
8	AG	1.66	9/785 (1.1%)	2.56	33/1046 (3.2%)
9	AH	1.80	12/723 (1.7%)	2.44	37/966 (3.8%)
10	AI	1.65	6/658 (0.9%)	2.62	33/884 (3.7%)
11	AJ	1.59	5/657 (0.8%)	2.37	33/881 (3.7%)
12	AK	1.77	5/462 (1.1%)	2.48	33/621 (5.3%)
13	AL	1.63	3/652 (0.5%)	2.09	19/877 (2.2%)
14	AN	1.53	3/670 (0.4%)	2.09	21/888 (2.4%)
15	AO	1.66	19/1651 (1.2%)	2.22	58/2225 (2.6%)
16	AQ	1.74	6/430 (1.4%)	2.77	30/570 (5.3%)
17	AR	1.65	17/1664 (1.0%)	2.37	81/2227 (3.6%)
18	AS	1.67	10/1118 (0.9%)	2.31	38/1504 (2.5%)
19	AT	1.63	5/835 (0.6%)	2.30	36/1128 (3.2%)
20	AU	1.68	10/1187 (0.8%)	2.46	56/1591 (3.5%)
21	AV	1.64	7/988 (0.7%)	2.27	43/1326 (3.2%)
22	AW	1.78	14/1033 (1.4%)	2.59	48/1375 (3.5%)
23	AX	1.57	4/796 (0.5%)	2.46	38/1077 (3.5%)
24	BA	3.32	357/2800 (12.8%)	4.36	854/4367 (19.6%)
25	BB	15.87	8884/69795 (12.7%)	4.40	21260/108884 (19.5%)
26	BC	1.63	10/765 (1.3%)	2.11	24/1025 (2.3%)
27	BD	1.69	7/939 (0.7%)	2.47	44/1258 (3.5%)
28	BE	1.68	9/1061 (0.8%)	2.33	37/1413 (2.6%)
29	BF	1.62	6/1092 (0.5%)	2.24	37/1460 (2.5%)
30	BG	1.70	10/1020 (1.0%)	2.53	58/1364 (4.3%)
31	BH	1.69	11/909 (1.2%)	2.40	43/1219 (3.5%)
32	BI	1.71	8/928 (0.9%)	2.37	36/1242 (2.9%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
33	BJ	1.71	15/959 (1.6%)	2.50	62/1278 (4.9%)
34	BK	1.62	5/828 (0.6%)	2.36	35/1107 (3.2%)
35	BL	1.52	4/863 (0.5%)	2.38	33/1156 (2.9%)
36	BM	1.54	4/784 (0.5%)	2.16	28/1048 (2.7%)
37	BN	1.74	26/2092 (1.2%)	2.34	97/2813 (3.4%)
38	BO	1.59	2/787 (0.3%)	2.39	37/1051 (3.5%)
39	BP	1.71	7/641 (1.1%)	2.42	28/848 (3.3%)
40	BQ	1.67	5/509 (1.0%)	2.16	15/677 (2.2%)
41	BR	1.60	5/452 (1.1%)	2.10	15/605 (2.5%)
42	BS	1.65	8/558 (1.4%)	2.43	20/745 (2.7%)
43	BT	1.77	7/449 (1.6%)	2.34	22/599 (3.7%)
44	BU	1.61	3/447 (0.7%)	2.19	18/594 (3.0%)
45	BV	1.74	3/379 (0.8%)	2.64	22/498 (4.4%)
46	BW	1.55	3/512 (0.6%)	2.18	20/676 (3.0%)
47	BX	1.56	2/302 (0.7%)	2.90	18/397 (4.5%)
48	BY	1.69	11/1585 (0.7%)	2.23	58/2134 (2.7%)
49	BZ	1.57	8/1711 (0.5%)	2.13	57/2305 (2.5%)
50	B1	1.66	15/1570 (1.0%)	2.30	70/2113 (3.3%)
51	B2	1.67	11/1443 (0.8%)	2.29	62/1937 (3.2%)
52	B3	1.60	9/1342 (0.7%)	2.13	50/1816 (2.8%)
53	B4	1.61	11/1121 (1.0%)	2.08	27/1515 (1.8%)
54	B5	1.51	4/1045 (0.4%)	2.16	35/1410 (2.5%)
55	B6	1.69	9/1135 (0.8%)	2.39	60/1529 (3.9%)
All	All	10.61	15060/162206 (9.3%)	3.93	36793/242726 (15.2%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	AA	0	52
1	AE	0	46
1	AP	2	51
2	AM	0	12
3	A1	4	995
4	AB	0	8
5	AC	0	4
6	AD	0	9
7	AF	0	8
8	AG	0	3
9	AH	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
10	AI	0	9
11	AJ	0	4
12	AK	0	3
13	AL	0	8
14	AN	1	0
15	AO	0	9
16	AQ	0	5
17	AR	0	5
18	AS	0	2
19	AT	0	9
20	AU	0	8
21	AV	0	4
22	AW	0	9
23	AX	0	2
24	BA	0	81
25	BB	3	1853
26	BC	0	2
27	BD	0	4
28	BE	0	5
29	BF	0	9
30	BG	0	5
31	BH	0	7
32	BI	0	6
33	BJ	0	3
34	BK	0	11
35	BL	0	4
36	BM	0	3
37	BN	0	12
38	BO	0	4
39	BP	0	7
41	BR	0	4
42	BS	0	7
43	BT	0	3
44	BU	0	3
45	BV	0	4
46	BW	0	7
47	BX	0	1
48	BY	0	8
49	BZ	0	9
50	B1	0	9
51	B2	0	7
52	B3	0	7

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Mol	Chain	#Chirality outliers	#Planarity outliers
53	B4	0	3
54	B5	0	3
55	B6	0	12
All	All	10	3370

All (15060) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	995	C	C4-C5	2385.00	20.50	1.43
25	BB	995	C	C2-N3	2363.63	20.26	1.35
25	BB	995	C	C4-N4	2355.33	22.53	1.33
3	A1	1429	A	P-O5'	178.05	3.37	1.59
3	A1	1340	A	C3'-O3'	103.07	2.86	1.42
1	AP	31	A	C4'-C3'	49.99	2.08	1.53
1	AP	31	A	C3'-C2'	48.24	2.06	1.52
1	AP	31	A	C2'-C1'	46.26	2.04	1.53
1	AP	31	A	O4'-C1'	45.04	2.00	1.41
25	BB	1687	G	C4'-C3'	42.24	1.99	1.53
25	BB	1687	G	C2'-C1'	41.04	1.98	1.53
3	A1	1418	A	N3-C4	39.94	1.58	1.34
25	BB	1687	G	C3'-C2'	38.14	1.95	1.52
1	AP	31	A	C4'-O4'	36.05	1.92	1.45
25	BB	1687	G	O4'-C1'	35.26	1.87	1.41
3	A1	1418	A	C5-C4	33.99	1.62	1.38
25	BB	1687	G	C4'-O4'	30.99	1.85	1.45
3	A1	1418	A	C6-N1	30.72	1.57	1.35
3	A1	1418	A	C5-C6	30.53	1.68	1.41
3	A1	1418	A	C2-N3	27.43	1.58	1.33
1	AP	74	C	O3'-P	-26.06	1.29	1.61
3	A1	1418	A	N1-C2	24.52	1.56	1.34
25	BB	1916	A	N7-C5	19.83	1.51	1.39
25	BB	334	C	N1-C6	17.70	1.47	1.37
25	BB	430	A	N9-C4	17.69	1.48	1.37
25	BB	506	G	N9-C4	17.64	1.52	1.38
25	BB	2598	A	N3-C4	17.01	1.45	1.34
25	BB	265	A	N9-C4	16.84	1.48	1.37
25	BB	2717	C	C4-N4	-15.87	1.19	1.33
3	A1	649	A	N7-C5	15.59	1.48	1.39
25	BB	1504	A	N7-C5	15.51	1.48	1.39
3	A1	1314	C	N3-C4	-15.49	1.23	1.33
25	BB	2221	G	N7-C5	15.46	1.48	1.39
25	BB	2331	G	N7-C5	15.45	1.48	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2670	A	C5-C4	-15.44	1.27	1.38
25	BB	2608	G	N7-C5	15.39	1.48	1.39
3	A1	1476	A	N7-C5	15.24	1.48	1.39
25	BB	2899	A	N3-C4	15.21	1.44	1.34
1	AA	32	C	C4-N4	-15.16	1.20	1.33
25	BB	1303	G	C6-N1	-15.08	1.28	1.39
3	A1	968	A	N7-C5	15.03	1.48	1.39
25	BB	2501	C	C4-N4	-14.99	1.20	1.33
25	BB	1908	C	N3-C4	-14.95	1.23	1.33
25	BB	1698	A	C6-N1	-14.91	1.25	1.35
25	BB	2134	A	N9-C4	14.86	1.46	1.37
25	BB	232	G	N3-C4	14.84	1.45	1.35
25	BB	2433	A	N3-C4	14.66	1.43	1.34
25	BB	825	A	C6-N1	-14.59	1.25	1.35
25	BB	80	G	N7-C5	14.58	1.48	1.39
25	BB	2586	U	C2-N3	14.58	1.48	1.37
25	BB	717	C	N3-C4	-14.55	1.23	1.33
3	A1	147	G	N7-C5	14.55	1.48	1.39
25	BB	215	G	C2-N2	-14.52	1.20	1.34
25	BB	1927	A	N7-C5	14.46	1.48	1.39
3	A1	500	G	C6-N1	-14.39	1.29	1.39
1	AE	65	G	N7-C5	14.27	1.47	1.39
1	AP	31	A	C5-C4	-14.21	1.28	1.38
25	BB	514	A	N7-C5	14.21	1.47	1.39
3	A1	1480	A	N7-C5	14.20	1.47	1.39
1	AA	73	A	N7-C5	14.19	1.47	1.39
1	AE	44	A	C8-N7	-14.17	1.21	1.31
3	A1	572	A	N7-C5	14.16	1.47	1.39
3	A1	538	G	N9-C4	14.15	1.49	1.38
3	A1	363	A	N9-C4	14.13	1.46	1.37
1	AA	17	U	N3-C4	-14.09	1.25	1.38
25	BB	1503	A	N3-C4	14.04	1.43	1.34
3	A1	373	A	N9-C4	13.99	1.46	1.37
25	BB	2459	A	N7-C5	13.98	1.47	1.39
25	BB	662	G	N3-C4	13.97	1.45	1.35
25	BB	620	G	C2-N2	-13.96	1.20	1.34
3	A1	687	A	C6-N6	-13.90	1.22	1.33
3	A1	1329	A	N9-C4	13.90	1.46	1.37
25	BB	1278	C	C4-N4	-13.83	1.21	1.33
25	BB	269	C	C4-N4	-13.81	1.21	1.33
25	BB	2706	A	N3-C4	13.75	1.43	1.34
3	A1	831	A	N7-C5	13.74	1.47	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AE	32	C	N3-C4	-13.74	1.24	1.33
25	BB	1910	G	N7-C5	13.74	1.47	1.39
3	A1	940	C	N3-C4	-13.73	1.24	1.33
3	A1	1136	C	N3-C4	-13.73	1.24	1.33
25	BB	1954	G	C6-N1	-13.71	1.29	1.39
1	AA	48	C	N1-C6	13.70	1.45	1.37
3	A1	1200	C	N3-C4	-13.67	1.24	1.33
3	A1	900	A	P-O5'	13.66	1.73	1.59
25	BB	899	A	N7-C5	13.65	1.47	1.39
3	A1	21	G	N7-C5	13.64	1.47	1.39
25	BB	2844	G	N1-C2	-13.62	1.26	1.37
1	AA	29	A	N3-C4	13.60	1.43	1.34
3	A1	1489	G	N7-C5	13.57	1.47	1.39
3	A1	918	A	N3-C4	13.55	1.43	1.34
25	BB	574	A	N3-C4	13.54	1.43	1.34
25	BB	2556	C	N3-C4	-13.52	1.24	1.33
25	BB	131	A	C6-N1	-13.51	1.26	1.35
3	A1	663	A	C6-N1	-13.48	1.26	1.35
25	BB	1791	A	N7-C5	13.46	1.47	1.39
3	A1	503	C	N1-C6	13.45	1.45	1.37
25	BB	2037	A	N9-C4	-13.44	1.29	1.37
3	A1	888	G	N7-C5	13.39	1.47	1.39
3	A1	325	A	N7-C5	13.33	1.47	1.39
25	BB	2877	G	N7-C5	13.24	1.47	1.39
25	BB	1344	U	C2-N3	13.23	1.47	1.37
3	A1	237	G	N7-C5	13.22	1.47	1.39
3	A1	347	G	C6-N1	-13.19	1.30	1.39
25	BB	1574	C	N3-C4	-13.18	1.24	1.33
3	A1	1456	A	N9-C4	13.11	1.45	1.37
25	BB	2725	A	N9-C4	13.10	1.45	1.37
3	A1	1186	G	P-O5'	13.08	1.72	1.59
3	A1	357	G	N9-C8	13.07	1.47	1.37
25	BB	2127	G	C6-N1	-13.04	1.30	1.39
3	A1	294	U	P-O5'	-13.03	1.46	1.59
25	BB	1278	C	N3-C4	-12.98	1.24	1.33
25	BB	1189	A	N7-C5	12.98	1.47	1.39
25	BB	347	A	N3-C4	12.96	1.42	1.34
25	BB	1862	G	N3-C4	12.97	1.44	1.35
3	A1	1170	A	N7-C5	12.96	1.47	1.39
25	BB	595	C	C4-N4	-12.95	1.22	1.33
25	BB	618	G	N1-C2	-12.93	1.27	1.37
25	BB	2594	C	N1-C6	12.93	1.45	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	263	A	N3-C4	12.91	1.42	1.34
24	BA	88	C	N3-C4	-12.91	1.25	1.33
24	BA	38	C	C4-N4	-12.91	1.22	1.33
25	BB	2331	G	N3-C4	12.90	1.44	1.35
3	A1	1246	A	N9-C4	-12.89	1.30	1.37
3	A1	1299	A	N7-C5	12.88	1.47	1.39
25	BB	288	U	C2-N3	-12.84	1.28	1.37
3	A1	1244	G	N1-C2	-12.83	1.27	1.37
3	A1	777	A	N7-C5	12.82	1.47	1.39
25	BB	2841	C	N3-C4	-12.81	1.25	1.33
25	BB	1001	A	N7-C5	12.79	1.47	1.39
3	A1	77	A	C6-N1	-12.75	1.26	1.35
3	A1	269	C	N1-C6	12.75	1.44	1.37
25	BB	259	G	N3-C4	12.74	1.44	1.35
25	BB	1950	G	N1-C2	-12.73	1.27	1.37
25	BB	2569	G	C6-N1	-12.73	1.30	1.39
1	AE	3	G	N3-C4	12.72	1.44	1.35
25	BB	2065	C	N1-C6	12.72	1.44	1.37
3	A1	1410	A	N7-C5	-12.71	1.31	1.39
25	BB	317	G	C8-N7	12.71	1.38	1.30
25	BB	1383	A	C6-N1	-12.68	1.26	1.35
25	BB	2271	G	C5-C4	12.68	1.47	1.38
3	A1	606	G	N9-C4	12.66	1.48	1.38
1	AP	41	U	N3-C4	-12.61	1.27	1.38
25	BB	56	A	N7-C5	12.61	1.46	1.39
3	A1	1483	A	N9-C4	12.61	1.45	1.37
3	A1	1432	G	N3-C4	12.59	1.44	1.35
1	AE	37	G	N3-C4	12.58	1.44	1.35
25	BB	2806	C	C4-N4	-12.57	1.22	1.33
25	BB	1144	A	N7-C5	12.54	1.46	1.39
3	A1	1093	A	N3-C4	12.51	1.42	1.34
25	BB	110	G	N3-C4	12.51	1.44	1.35
25	BB	676	A	N7-C5	12.49	1.46	1.39
25	BB	770	G	P-O5'	12.48	1.72	1.59
25	BB	2112	G	N1-C2	-12.48	1.27	1.37
25	BB	2826	A	N3-C4	12.45	1.42	1.34
25	BB	2734	A	N7-C5	12.45	1.46	1.39
25	BB	2070	A	N3-C4	12.42	1.42	1.34
1	AP	38	A	C6-N6	-12.42	1.24	1.33
25	BB	2537	U	N3-C4	-12.40	1.27	1.38
25	BB	253	C	N3-C4	-12.39	1.25	1.33
3	A1	862	C	N3-C4	-12.37	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2204	G	N1-C2	-12.33	1.27	1.37
3	A1	1098	C	N1-C6	-12.31	1.29	1.37
25	BB	971	G	N1-C2	-12.29	1.27	1.37
1	AA	46	G	C6-N1	-12.28	1.30	1.39
3	A1	1340	A	C4'-C3'	12.28	1.66	1.53
3	A1	379	C	C4-N4	-12.27	1.23	1.33
25	BB	256	A	C5'-C4'	12.26	1.66	1.51
3	A1	1110	A	N7-C5	12.26	1.46	1.39
25	BB	14	A	C6-N6	-12.26	1.24	1.33
3	A1	1475	G	P-O5'	12.23	1.72	1.59
3	A1	167	A	N9-C4	-12.22	1.30	1.37
3	A1	331	G	N9-C4	-12.21	1.28	1.38
25	BB	1163	G	N1-C2	-12.21	1.27	1.37
25	BB	2572	A	N7-C5	12.21	1.46	1.39
25	BB	400	G	P-O5'	-12.20	1.47	1.59
25	BB	1333	G	N1-C2	-12.20	1.27	1.37
25	BB	1131	G	N1-C2	-12.17	1.28	1.37
25	BB	1869	G	C6-N1	-12.14	1.31	1.39
3	A1	906	A	N3-C4	12.14	1.42	1.34
3	A1	338	A	C6-N1	-12.13	1.27	1.35
25	BB	231	A	N7-C5	12.12	1.46	1.39
25	BB	1831	G	N3-C4	-12.11	1.26	1.35
25	BB	2527	C	N3-C4	-12.10	1.25	1.33
1	AE	75	C	C4-N4	-12.10	1.23	1.33
1	AA	19	G	N1-C2	-12.09	1.28	1.37
25	BB	2078	C	C4-N4	-12.09	1.23	1.33
25	BB	770	G	N7-C5	12.09	1.46	1.39
25	BB	2476	A	N7-C5	12.09	1.46	1.39
25	BB	1470	A	N7-C5	12.08	1.46	1.39
25	BB	2566	A	N3-C4	12.07	1.42	1.34
25	BB	927	A	C6-N1	-12.06	1.27	1.35
3	A1	1034	G	N1-C2	-12.05	1.28	1.37
25	BB	953	G	C6-N1	-12.05	1.31	1.39
25	BB	371	A	C6-N1	-12.04	1.27	1.35
25	BB	1753	G	C8-N7	12.04	1.38	1.30
3	A1	698	G	N7-C5	12.03	1.46	1.39
3	A1	1507	A	N3-C4	11.98	1.42	1.34
25	BB	402	A	N9-C4	-11.98	1.30	1.37
3	A1	1484	C	N3-C4	-11.98	1.25	1.33
3	A1	1408	A	N3-C4	11.96	1.42	1.34
25	BB	1331	G	P-O5'	11.96	1.71	1.59
25	BB	2607	G	N7-C5	11.96	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1743	G	N1-C2	-11.96	1.28	1.37
25	BB	1761	C	C4-N4	-11.96	1.23	1.33
3	A1	700	G	N1-C2	-11.94	1.28	1.37
3	A1	892	A	C5-C4	-11.94	1.30	1.38
25	BB	2837	A	C6-N6	-11.93	1.24	1.33
3	A1	1195	C	N1-C6	11.93	1.44	1.37
25	BB	151	C	N1-C6	11.92	1.44	1.37
25	BB	93	G	C6-N1	-11.91	1.31	1.39
25	BB	1125	G	N7-C5	11.91	1.46	1.39
25	BB	196	A	N7-C5	11.89	1.46	1.39
3	A1	127	G	N7-C5	11.88	1.46	1.39
25	BB	1835	G	C2-N2	-11.88	1.22	1.34
3	A1	1507	A	C8-N7	-11.86	1.23	1.31
3	A1	825	A	N9-C4	-11.86	1.30	1.37
25	BB	2822	G	N7-C5	11.85	1.46	1.39
3	A1	112	G	N7-C5	11.83	1.46	1.39
3	A1	932	C	C4-N4	-11.83	1.23	1.33
25	BB	2429	G	N1-C2	-11.83	1.28	1.37
25	BB	2551	C	N1-C6	-11.83	1.30	1.37
25	BB	678	C	C4-N4	-11.82	1.23	1.33
3	A1	1249	C	C4-N4	-11.81	1.23	1.33
25	BB	13	A	N7-C5	11.80	1.46	1.39
25	BB	2733	A	N3-C4	11.78	1.42	1.34
3	A1	1089	G	P-O5'	-11.78	1.48	1.59
3	A1	1134	G	C8-N7	11.77	1.38	1.30
3	A1	1041	G	N7-C5	11.76	1.46	1.39
25	BB	2059	A	N7-C5	11.76	1.46	1.39
25	BB	1900	A	N9-C4	-11.76	1.30	1.37
25	BB	467	G	N1-C2	-11.74	1.28	1.37
3	A1	98	A	N3-C4	11.72	1.41	1.34
25	BB	362	A	N3-C4	11.72	1.41	1.34
25	BB	1847	A	C6-N6	-11.71	1.24	1.33
25	BB	89	A	N7-C5	11.71	1.46	1.39
3	A1	1221	G	C6-N1	-11.70	1.31	1.39
25	BB	1420	A	N3-C4	11.70	1.41	1.34
25	BB	1507	C	C4-N4	-11.70	1.23	1.33
25	BB	1519	G	N7-C5	11.69	1.46	1.39
3	A1	1413	A	N3-C4	11.68	1.41	1.34
25	BB	315	G	N7-C5	11.68	1.46	1.39
3	A1	874	G	C2-N2	-11.68	1.22	1.34
3	A1	1201	A	N7-C5	11.68	1.46	1.39
25	BB	1637	A	N7-C5	11.65	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	588	G	N3-C4	11.65	1.43	1.35
3	A1	1392	G	N3-C4	11.65	1.43	1.35
25	BB	172	A	C5-C6	11.64	1.51	1.41
3	A1	1523	G	N7-C5	11.64	1.46	1.39
25	BB	508	A	N3-C4	11.63	1.41	1.34
25	BB	1902	C	N3-C4	-11.62	1.25	1.33
25	BB	2025	C	N3-C4	-11.61	1.25	1.33
25	BB	2266	A	N9-C4	11.60	1.44	1.37
25	BB	2340	A	N3-C4	11.60	1.41	1.34
25	BB	2602	A	N7-C5	11.59	1.46	1.39
25	BB	994	C	N3-C4	-11.59	1.25	1.33
25	BB	2135	A	N3-C4	11.59	1.41	1.34
3	A1	30	U	N1-C2	11.59	1.49	1.38
3	A1	63	C	C4-N4	-11.59	1.23	1.33
25	BB	1495	A	N9-C8	-11.59	1.28	1.37
24	BA	112	G	N1-C2	-11.58	1.28	1.37
25	BB	2043	C	N3-C4	-11.58	1.25	1.33
25	BB	1104	C	C4-N4	-11.57	1.23	1.33
25	BB	1095	A	N7-C5	11.57	1.46	1.39
3	A1	1350	A	N3-C4	11.57	1.41	1.34
25	BB	631	A	C2-N3	-11.57	1.23	1.33
25	BB	2641	G	C8-N7	-11.57	1.24	1.30
25	BB	26	G	N9-C4	-11.57	1.28	1.38
25	BB	254	G	N1-C2	-11.56	1.28	1.37
3	A1	180	U	O3'-P	-11.55	1.47	1.61
3	A1	1213	A	N7-C5	11.55	1.46	1.39
3	A1	44	A	N3-C4	11.54	1.41	1.34
1	AE	70	C	N3-C4	-11.54	1.25	1.33
3	A1	177	G	N3-C4	11.54	1.43	1.35
25	BB	2224	G	N1-C2	-11.54	1.28	1.37
25	BB	675	A	N7-C5	11.53	1.46	1.39
25	BB	443	A	N7-C5	11.52	1.46	1.39
25	BB	2124	G	N7-C5	11.51	1.46	1.39
25	BB	2736	A	N7-C5	11.51	1.46	1.39
3	A1	627	G	C5'-C4'	11.51	1.65	1.51
3	A1	1099	G	N3-C4	11.51	1.43	1.35
3	A1	737	C	C4-N4	-11.50	1.23	1.33
3	A1	1094	G	N9-C8	-11.49	1.29	1.37
3	A1	1273	C	N3-C4	-11.49	1.25	1.33
25	BB	1711	A	C6-N1	-11.49	1.27	1.35
1	AP	22	G	N7-C5	-11.48	1.32	1.39
25	BB	2136	G	C2-N2	-11.47	1.23	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	21	A	N7-C5	11.47	1.46	1.39
3	A1	896	C	C4-N4	-11.46	1.23	1.33
25	BB	1076	C	N3-C4	-11.46	1.25	1.33
25	BB	1005	C	N3-C4	-11.46	1.25	1.33
25	BB	2300	C	C4-N4	-11.45	1.23	1.33
3	A1	74	A	N7-C5	11.45	1.46	1.39
25	BB	1421	G	C6-N1	-11.44	1.31	1.39
24	BA	101	A	N9-C4	11.44	1.44	1.37
25	BB	1929	G	P-O5'	11.43	1.71	1.59
3	A1	1134	G	N7-C5	11.41	1.46	1.39
1	AE	2	C	N1-C6	11.41	1.44	1.37
25	BB	1733	G	N7-C5	11.40	1.46	1.39
25	BB	2044	C	C4-N4	-11.40	1.23	1.33
3	A1	1222	G	N7-C5	11.40	1.46	1.39
3	A1	1092	A	C6-N6	-11.39	1.24	1.33
3	A1	726	C	C4-N4	-11.39	1.23	1.33
25	BB	2337	G	C6-N1	-11.38	1.31	1.39
25	BB	969	G	N1-C2	-11.37	1.28	1.37
3	A1	186	C	N3-C4	-11.37	1.25	1.33
24	BA	73	A	C6-N6	-11.37	1.24	1.33
25	BB	699	A	N7-C5	11.37	1.46	1.39
1	AE	10	G	C6-N1	-11.37	1.31	1.39
25	BB	1964	G	C2-N2	-11.37	1.23	1.34
25	BB	2471	A	C4'-C3'	11.37	1.65	1.53
25	BB	1385	A	N7-C5	11.36	1.46	1.39
1	AE	45	G	C2-N2	-11.36	1.23	1.34
25	BB	2087	G	C5-C4	-11.36	1.30	1.38
25	BB	56	A	P-O5'	-11.36	1.48	1.59
25	BB	2052	A	N9-C4	11.36	1.44	1.37
25	BB	1218	G	N3-C4	11.35	1.43	1.35
25	BB	357	C	P-O5'	11.35	1.71	1.59
3	A1	624	C	C4-N4	-11.34	1.23	1.33
25	BB	1330	C	C4-N4	-11.34	1.23	1.33
3	A1	1398	A	N9-C4	11.33	1.44	1.37
3	A1	1169	A	N3-C4	11.32	1.41	1.34
25	BB	248	G	N7-C5	11.31	1.46	1.39
25	BB	1690	A	N3-C4	11.31	1.41	1.34
25	BB	2275	C	C4-N4	-11.30	1.23	1.33
25	BB	557	C	N1-C6	11.30	1.44	1.37
25	BB	2892	G	N1-C2	-11.30	1.28	1.37
25	BB	1393	A	N7-C5	11.30	1.46	1.39
25	BB	2825	G	O3'-P	-11.29	1.47	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2143	C	C4-N4	-11.29	1.23	1.33
25	BB	708	G	N7-C5	11.29	1.46	1.39
3	A1	980	C	N3-C4	-11.28	1.26	1.33
3	A1	1258	G	N1-C2	-11.28	1.28	1.37
1	AA	14	A	N7-C5	11.27	1.46	1.39
25	BB	973	A	N9-C8	11.27	1.46	1.37
3	A1	1331	G	N1-C2	-11.27	1.28	1.37
3	A1	1155	A	P-O5'	-11.27	1.48	1.59
25	BB	30	G	C6-N1	-11.27	1.31	1.39
25	BB	1060	U	C4-O4	-11.26	1.14	1.23
25	BB	1716	U	P-O5'	-11.25	1.48	1.59
25	BB	2353	G	N9-C8	-11.24	1.29	1.37
25	BB	1365	A	C6-N6	-11.24	1.25	1.33
3	A1	636	U	C4-C5	11.24	1.53	1.43
25	BB	2860	A	C6-N1	-11.23	1.27	1.35
25	BB	37	C	C4-N4	-11.23	1.23	1.33
25	BB	347	A	N9-C4	-11.23	1.31	1.37
25	BB	1464	G	N7-C5	11.22	1.46	1.39
24	BA	59	A	C6-N6	-11.22	1.25	1.33
3	A1	1316	G	N9-C8	11.21	1.45	1.37
25	BB	918	A	C6-N1	-11.21	1.27	1.35
3	A1	1362	A	N3-C4	11.20	1.41	1.34
25	BB	1677	A	N3-C4	11.20	1.41	1.34
25	BB	749	A	C6-N1	-11.20	1.27	1.35
3	A1	120	A	N7-C5	11.19	1.46	1.39
25	BB	2888	C	C4-N4	-11.19	1.23	1.33
24	BA	56	G	N1-C2	-11.19	1.28	1.37
3	A1	370	C	N3-C4	-11.18	1.26	1.33
3	A1	1017	U	N1-C2	11.18	1.48	1.38
25	BB	528	A	C6-N1	-11.17	1.27	1.35
25	BB	2782	G	N7-C5	11.16	1.46	1.39
25	BB	132	G	C2-N2	-11.16	1.23	1.34
25	BB	570	G	N1-C2	-11.16	1.28	1.37
25	BB	289	G	C5-C4	-11.16	1.30	1.38
25	BB	2003	A	C6-N1	-11.15	1.27	1.35
25	BB	925	A	N9-C4	11.15	1.44	1.37
25	BB	1604	C	O3'-P	-11.15	1.47	1.61
25	BB	2338	C	N3-C4	-11.14	1.26	1.33
3	A1	1066	C	C4-N4	-11.14	1.24	1.33
25	BB	1507	C	N1-C6	11.14	1.43	1.37
25	BB	2498	C	O3'-P	-11.14	1.47	1.61
25	BB	1973	G	N7-C5	11.13	1.46	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1837	C	N3-C4	-11.13	1.26	1.33
25	BB	201	C	N1-C6	11.12	1.43	1.37
25	BB	1072	C	C4-N4	-11.12	1.24	1.33
25	BB	1603	A	N7-C5	11.12	1.46	1.39
25	BB	2352	A	C5-C4	-11.12	1.30	1.38
3	A1	844	G	N7-C5	11.11	1.46	1.39
25	BB	282	A	N3-C4	-11.11	1.28	1.34
25	BB	2478	A	N3-C4	11.10	1.41	1.34
1	AA	10	G	C6-N1	-11.10	1.31	1.39
3	A1	141	G	N7-C5	11.10	1.46	1.39
3	A1	309	A	O3'-P	-11.10	1.47	1.61
25	BB	97	C	C4-N4	-11.10	1.24	1.33
25	BB	1013	C	C4-N4	-11.10	1.24	1.33
3	A1	484	G	N7-C5	11.08	1.45	1.39
3	A1	1132	C	C4-N4	-11.08	1.24	1.33
25	BB	859	G	C6-N1	-11.08	1.31	1.39
25	BB	806	C	C4-N4	-11.08	1.24	1.33
25	BB	770	G	N1-C2	-11.08	1.28	1.37
25	BB	1202	G	N9-C4	11.07	1.46	1.38
1	AA	40	C	C5-C6	11.07	1.43	1.34
3	A1	627	G	N1-C2	-11.06	1.28	1.37
24	BA	67	G	C6-N1	-11.06	1.31	1.39
3	A1	1201	A	N3-C4	11.06	1.41	1.34
24	BA	41	G	C8-N7	11.06	1.37	1.30
25	BB	1213	A	P-O5'	11.06	1.70	1.59
25	BB	1744	A	C5-C4	-11.05	1.31	1.38
25	BB	2325	G	C6-N1	-11.05	1.31	1.39
3	A1	942	G	C2-N2	-11.05	1.23	1.34
25	BB	1194	A	C6-N6	-11.05	1.25	1.33
25	BB	2714	G	N1-C2	-11.05	1.28	1.37
3	A1	1105	A	N7-C5	11.05	1.45	1.39
3	A1	411	A	N3-C4	11.04	1.41	1.34
25	BB	2452	C	C4-N4	-11.04	1.24	1.33
3	A1	125	U	C2'-C1'	-11.03	1.41	1.53
25	BB	167	A	N7-C5	11.03	1.45	1.39
25	BB	1568	G	N9-C8	-11.03	1.30	1.37
25	BB	1152	C	C4-N4	-11.03	1.24	1.33
3	A1	1488	G	C6-N1	-11.02	1.31	1.39
3	A1	523	A	C6-N1	-11.02	1.27	1.35
3	A1	1336	C	C4-N4	-11.02	1.24	1.33
25	BB	1269	A	N7-C5	-11.01	1.32	1.39
24	BA	28	C	N3-C4	-10.99	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	456	C	C4-N4	-10.98	1.24	1.33
3	A1	1239	A	N3-C4	10.98	1.41	1.34
25	BB	36	G	N7-C5	10.98	1.45	1.39
1	AA	23	A	N3-C4	10.98	1.41	1.34
3	A1	659	U	O3'-P	-10.98	1.48	1.61
24	BA	12	C	C4-N4	-10.98	1.24	1.33
25	BB	1005	C	C5'-C4'	10.97	1.64	1.51
3	A1	1242	G	N9-C8	-10.97	1.30	1.37
25	BB	216	A	N3-C4	10.97	1.41	1.34
1	AP	11	C	C4-N4	-10.96	1.24	1.33
25	BB	1135	C	N3-C4	-10.96	1.26	1.33
25	BB	388	G	C2-N2	-10.96	1.23	1.34
25	BB	1484	U	N1-C6	10.96	1.47	1.38
25	BB	888	C	C4-N4	-10.95	1.24	1.33
25	BB	2444	G	N1-C2	-10.94	1.28	1.37
25	BB	2677	G	O3'-P	-10.94	1.48	1.61
1	AP	9	A	C4'-C3'	10.94	1.65	1.53
25	BB	118	A	C6-N6	-10.94	1.25	1.33
3	A1	238	A	N3-C4	10.94	1.41	1.34
3	A1	548	G	N7-C5	10.93	1.45	1.39
25	BB	2516	A	N9-C4	-10.93	1.31	1.37
1	AP	65	G	N1-C2	-10.93	1.29	1.37
1	AE	14	A	N7-C5	10.93	1.45	1.39
25	BB	1639	C	C4-N4	-10.93	1.24	1.33
25	BB	1142	A	N7-C5	10.91	1.45	1.39
25	BB	2279	G	C8-N7	10.91	1.37	1.30
25	BB	2892	G	C6-N1	-10.90	1.31	1.39
25	BB	1717	A	N3-C4	10.90	1.41	1.34
25	BB	2542	A	N3-C4	10.89	1.41	1.34
25	BB	1978	A	P-O5'	10.89	1.70	1.59
3	A1	1276	G	C2-N2	-10.88	1.23	1.34
25	BB	84	A	C6-N1	-10.88	1.27	1.35
25	BB	2406	A	N7-C5	10.87	1.45	1.39
25	BB	1114	C	C4-N4	-10.87	1.24	1.33
3	A1	585	G	C6-N1	-10.87	1.31	1.39
1	AP	46	G	N1-C2	-10.86	1.29	1.37
25	BB	2454	G	C2-N2	-10.86	1.23	1.34
25	BB	2811	G	C2-N3	10.86	1.41	1.32
3	A1	60	A	N7-C5	10.86	1.45	1.39
3	A1	683	G	N7-C5	10.86	1.45	1.39
25	BB	1480	C	N1-C6	10.85	1.43	1.37
1	AA	38	A	N3-C4	10.85	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1502	A	N7-C5	10.85	1.45	1.39
25	BB	561	G	N1-C2	-10.85	1.29	1.37
1	AA	21	A	C6-N6	-10.84	1.25	1.33
24	BA	51	G	C6-N1	-10.84	1.31	1.39
25	BB	1826	G	C6-N1	10.84	1.47	1.39
25	BB	1027	A	N7-C5	10.83	1.45	1.39
1	AE	13	C	C4-N4	-10.83	1.24	1.33
25	BB	109	C	N3-C4	-10.83	1.26	1.33
25	BB	2235	G	C2-N2	-10.83	1.23	1.34
25	BB	614	A	N3-C4	10.82	1.41	1.34
25	BB	727	A	C5-C4	-10.82	1.31	1.38
25	BB	1471	G	C2-N2	-10.82	1.23	1.34
25	BB	467	G	P-O5'	10.82	1.70	1.59
25	BB	180	G	C2-N2	-10.81	1.23	1.34
25	BB	1201	U	N1-C6	10.80	1.47	1.38
3	A1	1180	A	N3-C4	10.80	1.41	1.34
25	BB	1828	G	N7-C5	10.80	1.45	1.39
25	BB	1987	A	C6-N1	-10.80	1.27	1.35
3	A1	1153	G	C2-N2	-10.79	1.23	1.34
25	BB	2444	G	C2-N2	-10.79	1.23	1.34
3	A1	945	G	C6-N1	-10.79	1.31	1.39
25	BB	2309	A	N3-C4	10.78	1.41	1.34
25	BB	649	G	N1-C2	-10.78	1.29	1.37
3	A1	1124	G	N3-C4	10.78	1.43	1.35
25	BB	1301	A	C5'-C4'	10.77	1.64	1.51
3	A1	6	G	N9-C8	10.76	1.45	1.37
25	BB	2407	A	C6-N6	-10.76	1.25	1.33
1	AP	20	G	C2-N2	-10.76	1.23	1.34
25	BB	1843	C	N1-C6	-10.76	1.30	1.37
25	BB	2616	C	C4-N4	-10.75	1.24	1.33
25	BB	1767	G	N7-C5	10.75	1.45	1.39
25	BB	2064	C	N1-C6	10.75	1.43	1.37
3	A1	228	A	N3-C4	10.75	1.41	1.34
25	BB	2651	C	N3-C4	-10.75	1.26	1.33
25	BB	2270	A	N7-C5	10.75	1.45	1.39
1	AE	55	U	C5'-C4'	10.74	1.64	1.51
3	A1	366	A	N3-C4	10.74	1.41	1.34
3	A1	1350	A	N9-C8	10.74	1.46	1.37
25	BB	531	C	C5-C6	10.74	1.43	1.34
25	BB	1933	G	N7-C5	10.74	1.45	1.39
25	BB	1974	C	N3-C4	-10.74	1.26	1.33
25	BB	1347	A	N3-C4	10.73	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	155	A	C6-N1	-10.73	1.28	1.35
3	A1	733	G	N1-C2	-10.73	1.29	1.37
3	A1	861	G	O3'-P	-10.71	1.48	1.61
25	BB	1669	A	N7-C5	10.71	1.45	1.39
3	A1	411	A	N7-C5	10.71	1.45	1.39
25	BB	1062	G	C6-N1	-10.70	1.32	1.39
25	BB	707	G	C4'-C3'	10.70	1.65	1.53
25	BB	1670	C	N1-C6	-10.70	1.30	1.37
3	A1	1119	C	N3-C4	-10.70	1.26	1.33
25	BB	1488	C	C2-N3	-10.70	1.27	1.35
3	A1	417	G	N3-C4	10.69	1.43	1.35
1	AA	66	A	N7-C5	10.69	1.45	1.39
25	BB	1626	A	C8-N7	10.69	1.39	1.31
25	BB	1719	G	N1-C2	-10.69	1.29	1.37
3	A1	87	C	N1-C6	10.69	1.43	1.37
3	A1	967	C	C4-N4	-10.69	1.24	1.33
25	BB	2091	C	C4-N4	-10.68	1.24	1.33
25	BB	1356	G	N1-C2	-10.68	1.29	1.37
25	BB	1826	G	N1-C2	-10.68	1.29	1.37
24	BA	61	G	C2-N2	-10.68	1.23	1.34
25	BB	2162	G	C2-N2	-10.68	1.23	1.34
25	BB	2751	G	C6-N1	-10.68	1.32	1.39
25	BB	2842	G	C2-N3	10.67	1.41	1.32
3	A1	148	G	N1-C2	-10.67	1.29	1.37
3	A1	150	U	N1-C6	10.67	1.47	1.38
25	BB	684	G	N3-C4	10.67	1.43	1.35
25	BB	848	C	C4-N4	-10.67	1.24	1.33
25	BB	1657	U	P-O5'	10.67	1.70	1.59
25	BB	2354	C	N3-C4	-10.66	1.26	1.33
3	A1	798	U	C5-C6	10.66	1.43	1.34
3	A1	334	C	N3-C4	-10.66	1.26	1.33
1	AA	74	C	O3'-P	-10.65	1.48	1.61
3	A1	557	G	C5'-C4'	10.65	1.64	1.51
25	BB	1361	G	N7-C5	10.65	1.45	1.39
3	A1	267	C	N3-C4	-10.65	1.26	1.33
25	BB	472	A	N3-C4	10.64	1.41	1.34
25	BB	489	G	N7-C5	10.64	1.45	1.39
25	BB	2054	A	N7-C5	10.64	1.45	1.39
25	BB	1508	A	N3-C4	10.63	1.41	1.34
1	AA	2	C	C4-C5	-10.63	1.34	1.43
25	BB	2198	A	N9-C4	10.63	1.44	1.37
25	BB	219	A	N3-C4	10.63	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2491	U	N1-C2	10.62	1.48	1.38
25	BB	178	G	C2'-C1'	10.62	1.65	1.53
25	BB	2738	A	N9-C4	-10.62	1.31	1.37
25	BB	1037	G	C6-N1	-10.62	1.32	1.39
3	A1	628	G	N9-C8	10.61	1.45	1.37
25	BB	414	C	C4-N4	-10.60	1.24	1.33
2	AM	3	U	C2-N3	10.60	1.45	1.37
3	A1	83	C	N3-C4	-10.60	1.26	1.33
3	A1	844	G	N9-C8	10.60	1.45	1.37
1	AE	24	G	N3-C4	10.59	1.42	1.35
25	BB	1145	C	O3'-P	-10.59	1.48	1.61
25	BB	1644	C	C5'-C4'	10.59	1.64	1.51
25	BB	129	C	C4-N4	-10.58	1.24	1.33
25	BB	1330	C	N3-C4	-10.58	1.26	1.33
25	BB	995	C	N3-C4	-10.57	1.26	1.33
25	BB	754	U	O3'-P	-10.57	1.48	1.61
3	A1	1329	A	N3-C4	10.57	1.41	1.34
3	A1	159	G	C2-N2	-10.57	1.24	1.34
25	BB	544	C	N3-C4	-10.56	1.26	1.33
3	A1	311	C	C4-N4	-10.56	1.24	1.33
25	BB	1235	G	N7-C5	10.56	1.45	1.39
25	BB	122	G	C6-N1	-10.56	1.32	1.39
25	BB	753	A	N7-C5	10.56	1.45	1.39
3	A1	307	C	N1-C6	10.55	1.43	1.37
3	A1	406	G	N7-C5	10.55	1.45	1.39
25	BB	422	A	N7-C5	10.55	1.45	1.39
25	BB	19	A	N9-C4	10.55	1.44	1.37
25	BB	541	A	C6-N1	-10.55	1.28	1.35
25	BB	2326	C	N3-C4	-10.54	1.26	1.33
25	BB	612	G	N1-C2	-10.54	1.29	1.37
25	BB	2280	G	N7-C5	10.54	1.45	1.39
3	A1	1144	G	C8-N7	10.54	1.37	1.30
9	AH	52	ARG	CZ-NH1	-10.53	1.19	1.33
25	BB	1419	A	C6-N1	-10.53	1.28	1.35
1	AP	25	C	N1-C6	10.53	1.43	1.37
25	BB	962	G	N1-C2	-10.53	1.29	1.37
25	BB	1239	G	N1-C2	-10.52	1.29	1.37
25	BB	368	A	N3-C4	10.52	1.41	1.34
3	A1	1182	G	N3-C4	10.51	1.42	1.35
25	BB	984	A	P-O5'	-10.51	1.49	1.59
1	AE	9	A	C6-N6	-10.51	1.25	1.33
25	BB	676	A	N9-C8	10.51	1.46	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1216	G	N1-C2	-10.51	1.29	1.37
3	A1	226	G	N1-C2	-10.51	1.29	1.37
3	A1	1292	G	N7-C5	10.51	1.45	1.39
25	BB	2306	C	C3'-C2'	10.51	1.64	1.52
1	AP	45	G	C6-N1	-10.50	1.32	1.39
25	BB	2658	C	N3-C4	-10.49	1.26	1.33
25	BB	2673	G	N7-C5	10.49	1.45	1.39
24	BA	45	A	P-O5'	-10.49	1.49	1.59
25	BB	474	G	C8-N7	10.48	1.37	1.30
25	BB	1112	G	C2-N2	-10.48	1.24	1.34
25	BB	1628	G	N7-C5	10.48	1.45	1.39
25	BB	1026	G	C2-N2	-10.48	1.24	1.34
3	A1	1460	C	N1-C6	10.48	1.43	1.37
25	BB	1983	G	N1-C2	-10.48	1.29	1.37
25	BB	1884	G	N7-C5	10.47	1.45	1.39
25	BB	2368	C	C4-N4	-10.47	1.24	1.33
25	BB	976	G	C5-C6	10.47	1.52	1.42
25	BB	736	C	C4-N4	-10.47	1.24	1.33
25	BB	1431	A	N3-C4	10.46	1.41	1.34
1	AA	74	C	P-O5'	10.46	1.70	1.59
3	A1	929	G	C8-N7	10.45	1.37	1.30
25	BB	1654	A	C6-N1	-10.44	1.28	1.35
25	BB	2879	A	C8-N7	-10.44	1.24	1.31
3	A1	351	G	N3-C4	10.44	1.42	1.35
25	BB	1727	C	C4-N4	-10.44	1.24	1.33
25	BB	1819	A	N3-C4	10.44	1.41	1.34
25	BB	2581	G	N7-C5	10.44	1.45	1.39
25	BB	2053	G	C6-N1	-10.44	1.32	1.39
3	A1	208	U	C2-N3	-10.43	1.30	1.37
3	A1	108	G	C2'-C1'	10.43	1.64	1.53
25	BB	1117	C	N3-C4	-10.43	1.26	1.33
3	A1	1248	A	N7-C5	10.43	1.45	1.39
25	BB	665	U	C5-C6	10.43	1.43	1.34
25	BB	231	A	N3-C4	10.42	1.41	1.34
25	BB	529	A	P-O5'	-10.42	1.49	1.59
3	A1	181	A	C6-N6	-10.42	1.25	1.33
3	A1	1312	G	C2-N2	-10.41	1.24	1.34
3	A1	1002	G	N3-C4	10.41	1.42	1.35
3	A1	615	G	N3-C4	10.41	1.42	1.35
25	BB	252	G	N7-C5	-10.41	1.33	1.39
25	BB	863	A	N3-C4	10.41	1.41	1.34
3	A1	1431	A	N3-C4	10.40	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2829	A	N9-C4	10.40	1.44	1.37
3	A1	566	G	C6-N1	-10.40	1.32	1.39
25	BB	2201	G	C2-N2	-10.40	1.24	1.34
1	AE	34	G	N7-C5	10.40	1.45	1.39
3	A1	75	G	N7-C5	-10.40	1.33	1.39
25	BB	1186	G	C5-C4	10.40	1.45	1.38
25	BB	1511	G	C2-N2	-10.39	1.24	1.34
25	BB	2659	G	N3-C4	10.39	1.42	1.35
25	BB	1111	A	C6-N1	-10.39	1.28	1.35
25	BB	1735	A	O3'-P	-10.39	1.48	1.61
3	A1	104	G	N1-C2	-10.39	1.29	1.37
25	BB	385	C	P-O5'	-10.38	1.49	1.59
25	BB	2704	C	O3'-P	-10.38	1.48	1.61
3	A1	776	G	C2-N2	-10.38	1.24	1.34
25	BB	60	G	N9-C8	10.37	1.45	1.37
25	BB	2229	U	P-O5'	10.37	1.70	1.59
1	AP	57	G	N1-C2	-10.37	1.29	1.37
25	BB	917	A	C6-N1	-10.36	1.28	1.35
25	BB	1906	G	C2-N2	-10.37	1.24	1.34
3	A1	627	G	N7-C5	10.36	1.45	1.39
25	BB	2559	C	C4-N4	-10.36	1.24	1.33
3	A1	329	A	N3-C4	10.36	1.41	1.34
3	A1	1405	G	C8-N7	10.36	1.37	1.30
3	A1	1131	G	C2-N2	-10.36	1.24	1.34
25	BB	442	G	N3-C4	10.36	1.42	1.35
3	A1	1374	A	P-O5'	-10.35	1.49	1.59
25	BB	76	C	N1-C6	10.35	1.43	1.37
25	BB	674	G	N1-C2	-10.35	1.29	1.37
3	A1	962	C	C4-N4	-10.35	1.24	1.33
25	BB	2670	A	C6-N1	-10.35	1.28	1.35
25	BB	418	C	O3'-P	-10.35	1.48	1.61
3	A1	922	G	N9-C8	10.34	1.45	1.37
3	A1	1114	C	C4'-C3'	-10.34	1.41	1.53
25	BB	2495	G	N7-C5	10.34	1.45	1.39
25	BB	801	G	P-O5'	10.34	1.70	1.59
3	A1	354	G	P-O5'	-10.34	1.49	1.59
25	BB	1157	G	N9-C8	-10.34	1.30	1.37
25	BB	1130	U	O3'-P	-10.33	1.48	1.61
25	BB	2578	G	C2-N2	-10.33	1.24	1.34
25	BB	2759	G	C6-N1	-10.33	1.32	1.39
1	AE	34	G	C2-N2	-10.33	1.24	1.34
25	BB	1847	A	N9-C4	10.33	1.44	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	411	G	O3'-P	-10.32	1.48	1.61
25	BB	2031	A	C6-N1	-10.32	1.28	1.35
25	BB	432	A	N3-C4	10.31	1.41	1.34
25	BB	1204	A	C6-N6	-10.31	1.25	1.33
1	AE	10	G	C8-N7	-10.31	1.24	1.30
3	A1	1077	G	C6-N1	-10.31	1.32	1.39
3	A1	256	U	N1-C2	10.31	1.47	1.38
25	BB	333	G	N3-C4	10.31	1.42	1.35
3	A1	1051	C	C2-N3	-10.30	1.27	1.35
3	A1	1273	C	C4-N4	-10.30	1.24	1.33
25	BB	364	C	P-O5'	-10.30	1.49	1.59
3	A1	75	G	C3'-C2'	10.30	1.64	1.52
3	A1	188	C	N3-C4	-10.30	1.26	1.33
3	A1	903	G	C8-N7	10.30	1.37	1.30
3	A1	743	A	N3-C4	10.29	1.41	1.34
25	BB	1532	A	C6-N1	-10.29	1.28	1.35
25	BB	529	A	C5-C4	-10.28	1.31	1.38
25	BB	2539	C	N3-C4	-10.28	1.26	1.33
25	BB	1929	G	C2-N2	-10.28	1.24	1.34
25	BB	186	G	P-O5'	10.28	1.70	1.59
24	BA	66	A	N3-C4	10.27	1.41	1.34
3	A1	415	A	N3-C4	10.27	1.41	1.34
25	BB	1823	G	N1-C2	-10.27	1.29	1.37
25	BB	2046	G	N7-C5	10.27	1.45	1.39
25	BB	261	G	C6-N1	-10.27	1.32	1.39
25	BB	946	C	C4-N4	-10.26	1.24	1.33
3	A1	712	A	C6-N6	-10.26	1.25	1.33
24	BA	30	C	N1-C6	10.25	1.43	1.37
1	AP	43	G	N3-C4	10.25	1.42	1.35
25	BB	2128	G	P-O5'	-10.25	1.49	1.59
25	BB	864	G	N7-C5	-10.25	1.33	1.39
3	A1	1202	U	C5'-C4'	10.25	1.63	1.51
24	BA	21	G	N1-C2	-10.24	1.29	1.37
3	A1	1242	G	N1-C2	-10.23	1.29	1.37
1	AE	32	C	N1-C6	-10.23	1.31	1.37
3	A1	533	A	N7-C5	10.23	1.45	1.39
3	A1	1063	C	C4-N4	-10.23	1.24	1.33
25	BB	2315	G	O3'-P	-10.23	1.48	1.61
3	A1	627	G	C2-N2	-10.22	1.24	1.34
25	BB	2631	G	N3-C4	10.22	1.42	1.35
25	BB	2275	C	C2-N3	10.21	1.44	1.35
3	A1	1120	C	N3-C4	-10.21	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	BA	58	A	N9-C4	10.21	1.44	1.37
25	BB	272	A	C6-N6	-10.21	1.25	1.33
25	BB	920	A	N9-C4	10.21	1.44	1.37
25	BB	2731	G	N7-C5	10.21	1.45	1.39
25	BB	1165	A	N9-C4	-10.21	1.31	1.37
3	A1	525	C	C4-C5	-10.21	1.34	1.43
3	A1	597	G	C8-N7	10.21	1.37	1.30
3	A1	907	A	C6-N6	-10.21	1.25	1.33
3	A1	1446	A	N3-C4	10.21	1.41	1.34
25	BB	245	G	C2-N2	-10.20	1.24	1.34
3	A1	942	G	N9-C8	10.20	1.45	1.37
25	BB	1134	A	C8-N7	-10.20	1.24	1.31
3	A1	1369	C	O3'-P	-10.20	1.49	1.61
3	A1	1483	A	N7-C5	10.19	1.45	1.39
25	BB	250	G	C2-N2	-10.19	1.24	1.34
25	BB	1557	C	C5-C6	10.19	1.42	1.34
3	A1	1387	G	N9-C8	10.19	1.45	1.37
25	BB	2238	G	N1-C2	-10.19	1.29	1.37
3	A1	777	A	C6-N6	-10.18	1.25	1.33
3	A1	1231	G	N3-C4	10.18	1.42	1.35
1	AE	31	A	N7-C5	-10.18	1.33	1.39
25	BB	2353	G	N3-C4	10.18	1.42	1.35
3	A1	944	G	N3-C4	10.18	1.42	1.35
3	A1	36	C	N1-C6	-10.18	1.31	1.37
25	BB	1300	G	C2-N2	-10.18	1.24	1.34
3	A1	587	G	N7-C5	10.17	1.45	1.39
25	BB	1036	G	C5-C6	10.17	1.52	1.42
25	BB	1384	A	N9-C4	10.17	1.44	1.37
3	A1	259	G	C5-C4	10.17	1.45	1.38
25	BB	904	G	N9-C4	-10.17	1.29	1.38
25	BB	101	A	N9-C4	10.16	1.44	1.37
25	BB	1666	G	C6-N1	-10.16	1.32	1.39
25	BB	1745	A	N3-C4	10.16	1.41	1.34
25	BB	531	C	N1-C6	-10.16	1.31	1.37
25	BB	895	U	C3'-C2'	-10.15	1.41	1.52
25	BB	1395	A	N7-C5	10.15	1.45	1.39
3	A1	868	C	C2-O2	-10.14	1.15	1.24
25	BB	324	A	C4'-C3'	10.14	1.64	1.53
1	AP	26	G	C6-N1	-10.13	1.32	1.39
25	BB	302	C	C2-N3	10.14	1.43	1.35
25	BB	322	A	N3-C4	10.14	1.41	1.34
25	BB	1307	A	C6-N1	-10.14	1.28	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	608	A	C6-N6	-10.13	1.25	1.33
3	A1	1027	C	N3-C4	-10.13	1.26	1.33
3	A1	1210	C	N3-C4	-10.13	1.26	1.33
3	A1	1437	A	N9-C4	10.12	1.44	1.37
3	A1	1045	C	N3-C4	-10.12	1.26	1.33
25	BB	2308	G	C6-N1	-10.12	1.32	1.39
3	A1	632	U	C4'-O4'	-10.12	1.32	1.45
25	BB	1582	C	P-O5'	10.12	1.69	1.59
3	A1	754	C	N3-C4	-10.11	1.26	1.33
3	A1	894	G	C2-N2	-10.11	1.24	1.34
25	BB	850	U	P-O5'	-10.11	1.49	1.59
25	BB	1151	A	C6-N1	-10.11	1.28	1.35
24	BA	15	A	N9-C4	10.11	1.44	1.37
25	BB	2136	G	N7-C5	10.11	1.45	1.39
3	A1	80	A	C6-N1	-10.09	1.28	1.35
25	BB	1499	C	N3-C4	-10.09	1.26	1.33
25	BB	1465	G	N7-C5	10.09	1.45	1.39
25	BB	2570	G	C6-N1	-10.09	1.32	1.39
3	A1	1521	C	N1-C6	10.08	1.43	1.37
3	A1	1281	C	N3-C4	-10.08	1.26	1.33
3	A1	1405	G	C2-N2	-10.08	1.24	1.34
25	BB	2439	A	C6-N6	-10.08	1.25	1.33
3	A1	569	C	C4-C5	-10.08	1.34	1.43
25	BB	732	C	C4-N4	-10.08	1.24	1.33
25	BB	1360	G	N1-C2	-10.08	1.29	1.37
25	BB	1907	G	N1-C2	-10.08	1.29	1.37
25	BB	2382	G	C2-N2	-10.07	1.24	1.34
25	BB	2688	G	C6-N1	-10.07	1.32	1.39
24	BA	58	A	N7-C5	10.07	1.45	1.39
3	A1	234	C	C4-N4	-10.06	1.24	1.33
25	BB	2711	A	N3-C4	10.06	1.40	1.34
25	BB	506	G	C6-N1	-10.06	1.32	1.39
25	BB	980	A	N7-C5	10.05	1.45	1.39
25	BB	1598	A	N3-C4	10.05	1.40	1.34
3	A1	1311	A	C6-N6	-10.05	1.25	1.33
25	BB	1854	A	C6-N6	-10.05	1.25	1.33
25	BB	1844	C	N1-C6	10.04	1.43	1.37
3	A1	897	C	N3-C4	-10.04	1.26	1.33
3	A1	622	A	C6-N1	-10.04	1.28	1.35
25	BB	601	C	C4-N4	-10.04	1.25	1.33
3	A1	914	A	N3-C4	10.03	1.40	1.34
25	BB	1027	A	N3-C4	10.03	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	527	G	N9-C8	10.03	1.44	1.37
3	A1	962	C	C4'-C3'	10.03	1.64	1.53
25	BB	865	C	C5-C6	10.03	1.42	1.34
3	A1	1103	C	N1-C6	10.03	1.43	1.37
25	BB	839	U	P-O5'	10.02	1.69	1.59
1	AE	75	C	P-O5'	-10.01	1.49	1.59
25	BB	2190	G	C6-N1	-10.01	1.32	1.39
3	A1	206	C	C4'-O4'	-10.00	1.32	1.45
25	BB	1736	U	C5-C6	10.00	1.43	1.34
1	AA	20	G	C2-N2	-10.00	1.24	1.34
25	BB	1731	G	N7-C5	10.00	1.45	1.39
25	BB	1251	C	N3-C4	-10.00	1.26	1.33
25	BB	2771	C	O3'-P	-10.00	1.49	1.61
3	A1	1285	A	N7-C5	9.99	1.45	1.39
25	BB	46	G	O3'-P	-9.99	1.49	1.61
25	BB	2013	A	N9-C4	-9.99	1.31	1.37
25	BB	213	A	N7-C5	9.99	1.45	1.39
25	BB	429	A	N7-C5	9.99	1.45	1.39
25	BB	1739	A	N9-C4	-9.99	1.31	1.37
1	AA	64	A	C6-N1	-9.99	1.28	1.35
25	BB	2490	G	C5-C6	9.99	1.52	1.42
3	A1	46	G	C6-N1	-9.98	1.32	1.39
3	A1	1053	G	N1-C2	-9.98	1.29	1.37
1	AE	42	G	N9-C8	-9.98	1.30	1.37
3	A1	1172	C	N3-C4	-9.98	1.26	1.33
25	BB	107	G	N7-C5	9.98	1.45	1.39
3	A1	879	C	C4-C5	-9.98	1.34	1.43
25	BB	1087	G	N7-C5	-9.98	1.33	1.39
25	BB	564	C	N3-C4	-9.97	1.26	1.33
25	BB	1959	G	P-O5'	-9.97	1.49	1.59
3	A1	1366	C	P-O5'	9.97	1.69	1.59
25	BB	1634	A	N7-C5	9.97	1.45	1.39
1	AE	55	U	C2'-C1'	-9.96	1.42	1.53
3	A1	192	A	N7-C5	9.96	1.45	1.39
25	BB	903	C	C4-N4	-9.96	1.25	1.33
25	BB	906	U	P-O5'	9.96	1.69	1.59
25	BB	155	A	C8-N7	-9.95	1.24	1.31
25	BB	1337	G	N7-C5	9.95	1.45	1.39
25	BB	2435	A	N3-C4	9.95	1.40	1.34
25	BB	264	C	C4-N4	-9.95	1.25	1.33
24	BA	113	C	N3-C4	-9.94	1.26	1.33
25	BB	2816	G	C2-N2	-9.94	1.24	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2819	G	N3-C4	9.94	1.42	1.35
25	BB	1306	C	C4-N4	-9.94	1.25	1.33
25	BB	167	A	C6-N1	-9.93	1.28	1.35
25	BB	1890	A	C6-N1	-9.93	1.28	1.35
25	BB	2165	C	C4-N4	-9.93	1.25	1.33
25	BB	1003	G	N7-C5	9.93	1.45	1.39
25	BB	1908	C	C4-N4	-9.93	1.25	1.33
3	A1	844	G	N1-C2	-9.93	1.29	1.37
25	BB	1618	A	P-O5'	9.93	1.69	1.59
3	A1	714	G	C2-N2	-9.92	1.24	1.34
25	BB	2144	G	C5'-C4'	9.92	1.63	1.51
25	BB	2821	A	O3'-P	-9.92	1.49	1.61
25	BB	239	C	N3-C4	-9.92	1.27	1.33
25	BB	743	A	C6-N1	-9.92	1.28	1.35
25	BB	884	U	N1-C2	9.92	1.47	1.38
25	BB	2712	C	C4-N4	-9.92	1.25	1.33
1	AE	24	G	N7-C5	9.92	1.45	1.39
25	BB	23	G	C4'-C3'	9.92	1.64	1.53
3	A1	1167	A	N3-C4	9.91	1.40	1.34
25	BB	2297	A	C6-N1	-9.91	1.28	1.35
3	A1	517	G	N1-C2	-9.91	1.29	1.37
25	BB	598	U	C2-N3	-9.91	1.30	1.37
25	BB	1989	G	N7-C5	9.91	1.45	1.39
25	BB	1126	A	N7-C5	9.91	1.45	1.39
25	BB	1631	G	C6-N1	-9.90	1.32	1.39
3	A1	885	G	N9-C8	-9.90	1.30	1.37
25	BB	2631	G	N1-C2	-9.90	1.29	1.37
25	BB	2002	G	N1-C2	-9.90	1.29	1.37
3	A1	1034	G	C8-N7	9.89	1.36	1.30
3	A1	1102	A	N3-C4	9.89	1.40	1.34
3	A1	1344	C	C4-N4	-9.89	1.25	1.33
25	BB	1910	G	C2-N3	9.89	1.40	1.32
25	BB	1399	C	N1-C6	9.89	1.43	1.37
25	BB	2811	G	N7-C5	9.88	1.45	1.39
3	A1	1226	C	N3-C4	-9.88	1.27	1.33
25	BB	185	G	C5-C6	9.87	1.52	1.42
3	A1	13	U	N1-C6	9.87	1.46	1.38
25	BB	1305	C	O3'-P	-9.87	1.49	1.61
3	A1	536	C	N3-C4	-9.87	1.27	1.33
25	BB	2812	G	C6-N1	-9.87	1.32	1.39
3	A1	1510	C	N1-C6	9.87	1.43	1.37
25	BB	1281	G	N1-C2	-9.87	1.29	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1896	G	C2-N2	-9.86	1.24	1.34
3	A1	927	G	N7-C5	9.86	1.45	1.39
25	BB	1919	A	N7-C5	9.86	1.45	1.39
25	BB	1682	G	N7-C5	9.86	1.45	1.39
3	A1	799	G	N7-C5	9.86	1.45	1.39
3	A1	993	G	C2-N2	-9.86	1.24	1.34
25	BB	263	G	N1-C2	-9.86	1.29	1.37
3	A1	449	G	P-O5'	-9.85	1.49	1.59
3	A1	1085	U	N1-C2	9.85	1.47	1.38
25	BB	830	G	N7-C5	9.85	1.45	1.39
25	BB	2642	G	C2-N2	-9.85	1.24	1.34
25	BB	416	U	N1-C2	9.84	1.47	1.38
25	BB	911	A	N7-C5	9.84	1.45	1.39
1	AP	61	C	C4-N4	-9.84	1.25	1.33
3	A1	914	A	C6-N1	-9.84	1.28	1.35
3	A1	1511	G	N9-C8	-9.84	1.30	1.37
25	BB	698	C	C4-N4	-9.84	1.25	1.33
25	BB	2126	A	C6-N1	-9.84	1.28	1.35
25	BB	2151	U	C5-C6	9.84	1.43	1.34
25	BB	2760	C	N1-C6	9.84	1.43	1.37
3	A1	1236	A	N7-C5	9.83	1.45	1.39
25	BB	967	U	C2-N3	-9.83	1.30	1.37
25	BB	991	C	N3-C4	-9.83	1.27	1.33
25	BB	213	A	C6-N1	-9.83	1.28	1.35
25	BB	411	G	N7-C5	9.83	1.45	1.39
25	BB	463	G	N3-C4	9.83	1.42	1.35
25	BB	1573	G	N7-C5	9.83	1.45	1.39
3	A1	258	G	C2-N2	-9.82	1.24	1.34
3	A1	1047	G	C6-N1	-9.82	1.32	1.39
25	BB	1494	A	N9-C4	9.82	1.43	1.37
25	BB	1772	A	N3-C4	9.82	1.40	1.34
3	A1	693	G	N3-C4	9.81	1.42	1.35
24	BA	21	G	C8-N7	9.81	1.36	1.30
25	BB	1384	A	N3-C4	9.81	1.40	1.34
25	BB	880	G	N3-C4	9.81	1.42	1.35
3	A1	158	G	C8-N7	9.81	1.36	1.30
25	BB	376	G	N7-C5	9.81	1.45	1.39
3	A1	360	G	C2-N2	-9.81	1.24	1.34
3	A1	1184	G	C2-N2	-9.80	1.24	1.34
25	BB	1142	A	N3-C4	-9.80	1.28	1.34
3	A1	819	A	O3'-P	-9.80	1.49	1.61
25	BB	1120	G	C6-N1	-9.80	1.32	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1243	C	C4-N4	-9.80	1.25	1.33
25	BB	1750	G	N3-C4	9.80	1.42	1.35
25	BB	455	C	N3-C4	-9.79	1.27	1.33
25	BB	1354	A	N9-C4	9.79	1.43	1.37
25	BB	804	A	C6-N1	-9.79	1.28	1.35
25	BB	252	G	N1-C2	-9.79	1.29	1.37
25	BB	836	G	N3-C4	9.79	1.42	1.35
25	BB	2529	G	C2-N2	-9.79	1.24	1.34
25	BB	2853	C	C4-N4	-9.79	1.25	1.33
25	BB	2593	U	N1-C2	9.78	1.47	1.38
3	A1	1021	A	C6-N6	-9.78	1.26	1.33
3	A1	281	G	N9-C8	9.77	1.44	1.37
3	A1	1044	A	N7-C5	9.77	1.45	1.39
25	BB	2864	G	N1-C2	-9.77	1.29	1.37
25	BB	512	G	N7-C5	-9.77	1.33	1.39
24	BA	104	A	N3-C4	9.77	1.40	1.34
25	BB	263	G	N7-C5	9.76	1.45	1.39
25	BB	805	G	C2-N2	-9.76	1.24	1.34
25	BB	836	G	C6-N1	-9.76	1.32	1.39
25	BB	147	C	C5-C6	9.76	1.42	1.34
3	A1	339	C	N3-C4	-9.76	1.27	1.33
25	BB	2396	G	N7-C5	-9.76	1.33	1.39
3	A1	1426	G	C6-N1	-9.75	1.32	1.39
25	BB	1737	G	C6-N1	-9.75	1.32	1.39
3	A1	863	U	P-O5'	9.74	1.69	1.59
3	A1	1259	C	O3'-P	-9.74	1.49	1.61
25	BB	808	G	C5'-C4'	9.74	1.63	1.51
25	BB	1588	G	C6-N1	-9.74	1.32	1.39
3	A1	1107	C	C2-O2	-9.74	1.15	1.24
25	BB	1744	A	N7-C5	9.74	1.45	1.39
1	AE	69	U	O3'-P	-9.74	1.49	1.61
25	BB	36	G	C2-N2	-9.74	1.24	1.34
25	BB	1643	G	N7-C5	9.74	1.45	1.39
25	BB	300	A	C4'-O4'	-9.73	1.32	1.45
25	BB	323	C	N3-C4	-9.73	1.27	1.33
25	BB	1840	G	N1-C2	-9.73	1.29	1.37
25	BB	2049	G	N9-C8	9.73	1.44	1.37
25	BB	435	C	C4-N4	-9.72	1.25	1.33
3	A1	452	A	N7-C5	9.72	1.45	1.39
3	A1	505	G	C6-N1	-9.72	1.32	1.39
3	A1	383	A	N1-C2	-9.71	1.25	1.34
3	A1	698	G	C6-N1	-9.72	1.32	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2052	A	N7-C5	9.72	1.45	1.39
25	BB	1179	G	N1-C2	-9.71	1.29	1.37
25	BB	1868	C	N3-C4	-9.71	1.27	1.33
25	BB	2335	A	P-O5'	-9.71	1.50	1.59
25	BB	825	A	N7-C5	9.71	1.45	1.39
3	A1	1340	A	N7-C5	9.70	1.45	1.39
25	BB	951	C	C4-N4	-9.70	1.25	1.33
3	A1	120	A	C6-N1	-9.70	1.28	1.35
25	BB	1108	U	O3'-P	-9.70	1.49	1.61
3	A1	404	G	C2-N2	-9.69	1.24	1.34
25	BB	219	A	N7-C5	9.69	1.45	1.39
25	BB	1054	A	N3-C4	9.69	1.40	1.34
25	BB	925	A	N3-C4	9.68	1.40	1.34
3	A1	182	A	N1-C2	-9.68	1.25	1.34
25	BB	1310	G	N3-C4	9.68	1.42	1.35
25	BB	184	C	C4-N4	-9.68	1.25	1.33
25	BB	2536	G	N3-C4	9.68	1.42	1.35
3	A1	320	A	N7-C5	9.68	1.45	1.39
25	BB	774	G	P-O5'	-9.68	1.50	1.59
25	BB	818	G	N1-C2	-9.68	1.30	1.37
25	BB	88	G	N9-C8	9.67	1.44	1.37
25	BB	2029	G	N7-C5	9.67	1.45	1.39
25	BB	2589	A	N9-C4	9.66	1.43	1.37
3	A1	1026	G	C2-N2	-9.66	1.24	1.34
3	A1	1387	G	N1-C2	-9.66	1.30	1.37
25	BB	1732	C	C2-N3	-9.66	1.28	1.35
3	A1	470	C	N3-C4	-9.66	1.27	1.33
3	A1	1289	A	N3-C4	9.66	1.40	1.34
25	BB	1424	G	C8-N7	-9.66	1.25	1.30
25	BB	2295	C	C4-N4	-9.66	1.25	1.33
25	BB	454	A	N7-C5	9.65	1.45	1.39
3	A1	806	C	N3-C4	-9.65	1.27	1.33
25	BB	53	A	N7-C5	9.65	1.45	1.39
3	A1	402	G	C8-N7	9.65	1.36	1.30
24	BA	61	G	C8-N7	9.65	1.36	1.30
25	BB	240	C	C4-N4	-9.65	1.25	1.33
25	BB	603	A	C8-N7	9.65	1.38	1.31
25	BB	1265	A	C5-C4	-9.65	1.31	1.38
25	BB	1391	U	P-O5'	9.65	1.69	1.59
25	BB	1641	A	N3-C4	9.65	1.40	1.34
3	A1	1312	G	N9-C8	-9.65	1.31	1.37
25	BB	1008	A	N7-C5	9.64	1.45	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1174	U	C5'-C4'	9.64	1.62	1.51
25	BB	727	A	N7-C5	9.64	1.45	1.39
25	BB	2352	A	N7-C5	9.64	1.45	1.39
25	BB	1662	U	P-O5'	9.64	1.69	1.59
25	BB	1717	A	N7-C5	9.64	1.45	1.39
25	BB	1909	C	O3'-P	-9.64	1.49	1.61
25	BB	2493	U	C4-O4	-9.64	1.16	1.23
25	BB	42	A	C6-N1	-9.64	1.28	1.35
25	BB	297	G	N7-C5	9.64	1.45	1.39
1	AE	65	G	C2-N2	-9.63	1.25	1.34
25	BB	2700	A	C2'-O2'	-9.63	1.29	1.41
3	A1	425	G	C3'-C2'	9.63	1.63	1.52
3	A1	1188	A	N7-C5	9.63	1.45	1.39
25	BB	169	G	C6-N1	-9.62	1.32	1.39
25	BB	1386	C	N1-C6	9.62	1.43	1.37
25	BB	266	G	N1-C2	-9.62	1.30	1.37
3	A1	288	A	N9-C4	-9.62	1.32	1.37
25	BB	920	A	N7-C5	9.62	1.45	1.39
25	BB	2560	A	N9-C4	-9.62	1.32	1.37
3	A1	8	A	O3'-P	-9.61	1.49	1.61
25	BB	1661	G	C5-C4	-9.61	1.31	1.38
3	A1	17	U	C3'-C2'	9.61	1.63	1.52
3	A1	217	C	C4-N4	-9.61	1.25	1.33
3	A1	1501	C	C4-N4	-9.61	1.25	1.33
25	BB	317	G	C2-N2	-9.61	1.25	1.34
25	BB	495	G	C5-C4	-9.61	1.31	1.38
25	BB	1377	G	N7-C5	9.61	1.45	1.39
25	BB	2530	A	N3-C4	9.61	1.40	1.34
24	BA	2	G	C5-C6	9.60	1.51	1.42
3	A1	564	C	C4-C5	-9.60	1.35	1.43
25	BB	2339	C	C5'-C4'	9.60	1.62	1.51
3	A1	1034	G	N7-C5	9.60	1.45	1.39
3	A1	1055	A	C8-N7	9.60	1.38	1.31
3	A1	1395	C	N3-C4	-9.59	1.27	1.33
25	BB	1175	A	N3-C4	9.59	1.40	1.34
25	BB	474	G	N1-C2	-9.59	1.30	1.37
25	BB	1662	U	N1-C2	9.59	1.47	1.38
25	BB	454	A	C6-N1	-9.59	1.28	1.35
25	BB	1061	U	N3-C4	-9.59	1.29	1.38
25	BB	2424	C	N3-C4	-9.58	1.27	1.33
25	BB	2876	G	C2-N2	-9.58	1.25	1.34
1	AP	34	G	C2-N3	-9.58	1.25	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	59	A	N7-C5	9.58	1.45	1.39
3	A1	576	C	N3-C4	-9.57	1.27	1.33
25	BB	1369	G	N7-C5	9.56	1.45	1.39
25	BB	2094	A	N3-C4	9.56	1.40	1.34
3	A1	1472	U	N3-C4	-9.56	1.29	1.38
25	BB	2147	A	N1-C2	-9.56	1.25	1.34
3	A1	1013	G	N3-C4	9.56	1.42	1.35
3	A1	1036	A	N9-C4	-9.56	1.32	1.37
3	A1	1521	C	C4-N4	-9.56	1.25	1.33
3	A1	1471	U	N3-C4	-9.56	1.29	1.38
25	BB	601	C	N3-C4	-9.56	1.27	1.33
25	BB	1679	A	N9-C4	9.56	1.43	1.37
25	BB	2625	G	C6-N1	-9.55	1.32	1.39
25	BB	1304	A	N3-C4	9.55	1.40	1.34
25	BB	1489	C	C4-N4	-9.55	1.25	1.33
1	AP	10	G	C5'-C4'	9.55	1.62	1.51
25	BB	1410	G	C8-N7	9.55	1.36	1.30
25	BB	2448	A	N3-C4	9.55	1.40	1.34
3	A1	1280	A	C6-N1	-9.55	1.28	1.35
3	A1	713	G	N7-C5	9.54	1.45	1.39
3	A1	759	A	C2'-O2'	9.54	1.54	1.41
25	BB	1419	A	C6-N6	-9.54	1.26	1.33
25	BB	304	U	N3-C4	-9.54	1.29	1.38
25	BB	738	G	C5-C6	9.54	1.51	1.42
25	BB	1660	G	C2-N2	-9.54	1.25	1.34
25	BB	1215	G	C6-N1	-9.53	1.32	1.39
3	A1	1362	A	N9-C8	-9.53	1.30	1.37
25	BB	49	A	N3-C4	9.53	1.40	1.34
3	A1	841	C	N3-C4	-9.53	1.27	1.33
3	A1	1384	C	C4-N4	-9.53	1.25	1.33
25	BB	1904	G	P-O5'	-9.53	1.50	1.59
25	BB	2409	G	C6-N1	-9.52	1.32	1.39
1	AP	57	G	N3-C4	9.52	1.42	1.35
3	A1	872	A	N7-C5	9.52	1.45	1.39
25	BB	109	C	C5'-C4'	9.52	1.62	1.51
25	BB	2556	C	C4-N4	-9.51	1.25	1.33
25	BB	555	G	C2-N2	-9.51	1.25	1.34
3	A1	1424	U	N1-C2	9.51	1.47	1.38
25	BB	2718	G	N9-C8	-9.51	1.31	1.37
3	A1	969	A	N7-C5	9.50	1.45	1.39
3	A1	710	G	N9-C8	-9.50	1.31	1.37
25	BB	1529	G	C2-N2	-9.50	1.25	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	167	A	N3-C4	9.50	1.40	1.34
25	BB	382	A	C5-C4	-9.50	1.32	1.38
25	BB	1537	G	C2-N2	-9.50	1.25	1.34
3	A1	1166	G	N3-C4	9.50	1.42	1.35
25	BB	2142	A	P-O5'	-9.50	1.50	1.59
3	A1	1340	A	C3'-C2'	9.50	1.63	1.52
3	A1	33	A	N7-C5	9.49	1.45	1.39
3	A1	1332	A	N1-C2	-9.49	1.25	1.34
3	A1	1439	G	N7-C5	9.49	1.45	1.39
25	BB	2877	G	C2-N2	-9.49	1.25	1.34
1	AE	62	A	O3'-P	-9.49	1.49	1.61
3	A1	8	A	C6-N1	-9.49	1.28	1.35
3	A1	796	C	C4-N4	-9.49	1.25	1.33
24	BA	45	A	N9-C4	9.49	1.43	1.37
25	BB	1182	G	N9-C8	-9.49	1.31	1.37
3	A1	958	A	N3-C4	9.48	1.40	1.34
3	A1	1493	A	C5-C4	-9.48	1.32	1.38
25	BB	1002	G	C5'-C4'	9.48	1.62	1.51
3	A1	700	G	C2-N2	-9.48	1.25	1.34
1	AE	20	G	N1-C2	-9.48	1.30	1.37
25	BB	161	A	N3-C4	9.48	1.40	1.34
25	BB	1216	G	C2-N3	9.48	1.40	1.32
25	BB	1764	C	N1-C6	9.48	1.42	1.37
25	BB	1900	A	C6-N6	-9.48	1.26	1.33
25	BB	2103	C	C4-N4	-9.48	1.25	1.33
3	A1	918	A	N7-C5	9.47	1.45	1.39
1	AP	29	A	N1-C2	-9.47	1.25	1.34
25	BB	418	C	C4-N4	-9.47	1.25	1.33
25	BB	1965	C	N1-C6	9.47	1.42	1.37
25	BB	1910	G	N1-C2	-9.47	1.30	1.37
3	A1	613	C	C4-C5	-9.46	1.35	1.43
25	BB	2573	C	C4'-O4'	-9.46	1.33	1.45
3	A1	1415	G	C8-N7	9.46	1.36	1.30
25	BB	493	G	C2-N2	-9.46	1.25	1.34
3	A1	851	G	C2-N2	-9.46	1.25	1.34
3	A1	981	U	C2-N3	-9.46	1.31	1.37
25	BB	1019	U	N1-C2	9.46	1.47	1.38
25	BB	1151	A	N7-C5	9.46	1.45	1.39
25	BB	2480	C	C4-C5	-9.46	1.35	1.43
3	A1	1072	G	C6-N1	-9.46	1.32	1.39
3	A1	73	C	N1-C2	9.46	1.49	1.40
25	BB	1135	C	C4-N4	-9.46	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1186	G	C6-N1	-9.45	1.32	1.39
3	A1	869	G	C2-N3	9.45	1.40	1.32
3	A1	1108	G	N1-C2	-9.45	1.30	1.37
3	A1	19	A	C6-N6	-9.45	1.26	1.33
25	BB	804	A	P-O5'	-9.45	1.50	1.59
3	A1	1511	G	N1-C2	-9.44	1.30	1.37
25	BB	768	G	C6-N1	-9.44	1.32	1.39
3	A1	1367	C	C4-N4	-9.44	1.25	1.33
3	A1	1479	C	C4-C5	-9.44	1.35	1.43
25	BB	1853	A	N7-C5	9.43	1.45	1.39
3	A1	1181	G	N7-C5	9.43	1.45	1.39
16	AQ	16	ARG	CZ-NH2	-9.43	1.20	1.33
25	BB	1702	G	C6-N1	-9.43	1.32	1.39
25	BB	2205	A	N7-C5	9.43	1.45	1.39
1	AE	37	G	N7-C5	9.43	1.45	1.39
25	BB	1839	G	N3-C4	9.43	1.42	1.35
25	BB	1230	A	C6-N1	-9.42	1.28	1.35
25	BB	1700	A	C6-N1	-9.42	1.28	1.35
24	BA	6	G	N7-C5	9.42	1.45	1.39
25	BB	1376	C	C2-N3	9.42	1.43	1.35
3	A1	547	A	C8-N7	-9.42	1.25	1.31
3	A1	1108	G	N7-C5	9.42	1.45	1.39
25	BB	1264	A	N7-C5	9.42	1.44	1.39
25	BB	2821	A	C6-N6	-9.42	1.26	1.33
25	BB	2043	C	C5'-C4'	9.41	1.62	1.51
25	BB	1509	A	C8-N7	9.41	1.38	1.31
3	A1	437	U	C4-C5	9.41	1.52	1.43
25	BB	1531	C	N3-C4	-9.40	1.27	1.33
25	BB	1666	G	N7-C5	9.40	1.44	1.39
3	A1	1305	G	C2-N2	-9.40	1.25	1.34
1	AA	49	C	N1-C6	-9.40	1.31	1.37
3	A1	1016	A	C5-C4	-9.40	1.32	1.38
25	BB	841	G	C8-N7	-9.40	1.25	1.30
1	AE	4	G	C2-N2	-9.39	1.25	1.34
3	A1	446	G	C2-N2	-9.39	1.25	1.34
3	A1	1334	G	N7-C5	9.39	1.44	1.39
25	BB	1620	G	P-O5'	9.39	1.69	1.59
25	BB	1868	C	N1-C6	9.39	1.42	1.37
25	BB	2796	U	C3'-C2'	9.39	1.63	1.52
25	BB	2488	G	C2-N2	-9.39	1.25	1.34
25	BB	704	G	C6-N1	-9.38	1.32	1.39
25	BB	585	G	N3-C4	9.38	1.42	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1646	C	N3-C4	-9.38	1.27	1.33
3	A1	732	C	C5-C6	9.38	1.41	1.34
24	BA	50	A	C5-C4	-9.38	1.32	1.38
25	BB	2065	C	N3-C4	-9.38	1.27	1.33
25	BB	2638	G	C6-N1	-9.38	1.32	1.39
3	A1	1130	A	N1-C2	-9.38	1.25	1.34
3	A1	1514	G	N1-C2	-9.38	1.30	1.37
3	A1	5	U	C5-C6	9.38	1.42	1.34
3	A1	280	C	N1-C6	9.38	1.42	1.37
25	BB	1418	G	C2-N2	-9.38	1.25	1.34
25	BB	1223	G	C6-N1	-9.37	1.32	1.39
3	A1	1361	G	N3-C4	9.37	1.42	1.35
3	A1	1494	G	C5-C4	-9.37	1.31	1.38
25	BB	1749	A	N9-C4	9.37	1.43	1.37
25	BB	2504	U	C2-N3	-9.37	1.31	1.37
3	A1	886	G	C2-N2	-9.37	1.25	1.34
25	BB	1151	A	N3-C4	9.37	1.40	1.34
24	BA	24	G	N9-C8	9.36	1.44	1.37
25	BB	931	U	P-O5'	9.36	1.69	1.59
25	BB	2168	G	C2-N2	-9.36	1.25	1.34
1	AP	4	G	C5-C4	9.36	1.45	1.38
3	A1	1042	A	N3-C4	9.36	1.40	1.34
3	A1	947	G	N7-C5	9.35	1.44	1.39
25	BB	1721	G	N7-C5	9.35	1.44	1.39
25	BB	1985	C	N1-C6	-9.35	1.31	1.37
3	A1	200	G	C8-N7	-9.35	1.25	1.30
3	A1	399	G	C2-N2	-9.35	1.25	1.34
3	A1	500	G	C5-C6	9.35	1.51	1.42
3	A1	1223	C	C4'-C3'	9.35	1.63	1.53
25	BB	2085	U	C2-N3	9.35	1.44	1.37
3	A1	220	G	C2-N2	-9.35	1.25	1.34
25	BB	2536	G	C5'-C4'	9.35	1.62	1.51
3	A1	1264	U	C5-C6	9.34	1.42	1.34
25	BB	605	G	C6-N1	-9.34	1.33	1.39
1	AA	66	A	C6-N6	-9.34	1.26	1.33
25	BB	1046	A	C6-N6	-9.34	1.26	1.33
25	BB	1058	U	P-O5'	9.34	1.69	1.59
25	BB	1887	C	N1-C6	9.34	1.42	1.37
25	BB	2256	G	C2-N2	-9.34	1.25	1.34
3	A1	586	C	C4-N4	-9.34	1.25	1.33
25	BB	547	A	P-O5'	9.33	1.69	1.59
3	A1	228	A	C6-N1	-9.33	1.29	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	493	A	N9-C4	9.33	1.43	1.37
25	BB	1241	A	N7-C5	9.33	1.44	1.39
25	BB	1251	C	P-O5'	9.32	1.69	1.59
3	A1	220	G	C6-O6	-9.32	1.15	1.24
3	A1	541	G	C8-N7	-9.32	1.25	1.30
3	A1	1367	C	N3-C4	-9.32	1.27	1.33
25	BB	1342	A	N7-C5	9.32	1.44	1.39
25	BB	1922	G	N7-C5	9.32	1.44	1.39
25	BB	2460	U	C5'-C4'	9.32	1.62	1.51
3	A1	712	A	C6-N1	-9.31	1.29	1.35
1	AA	15	G	C8-N7	9.31	1.36	1.30
1	AP	62	A	C5-C4	-9.31	1.32	1.38
25	BB	886	A	N3-C4	9.31	1.40	1.34
25	BB	2612	C	C4-N4	-9.31	1.25	1.33
3	A1	652	U	C2-N3	-9.30	1.31	1.37
25	BB	2890	G	C2-N3	9.30	1.40	1.32
3	A1	1230	C	N1-C6	9.30	1.42	1.37
3	A1	1263	C	C4-N4	-9.30	1.25	1.33
3	A1	1385	G	C3'-C2'	9.30	1.63	1.52
25	BB	1739	A	N3-C4	9.30	1.40	1.34
25	BB	2353	G	C2-N2	-9.30	1.25	1.34
25	BB	27	G	C5'-C4'	9.30	1.62	1.51
3	A1	1317	C	C4-N4	-9.30	1.25	1.33
3	A1	1438	G	C6-N1	-9.29	1.33	1.39
25	BB	813	U	O3'-P	-9.29	1.50	1.61
3	A1	1407	C	C4-C5	-9.29	1.35	1.43
25	BB	1544	A	C6-N6	-9.29	1.26	1.33
24	BA	30	C	C2-N3	-9.29	1.28	1.35
25	BB	199	A	N9-C4	9.29	1.43	1.37
3	A1	418	C	C2'-C1'	9.29	1.63	1.53
25	BB	624	C	C2-N3	9.29	1.43	1.35
25	BB	1140	C	C5-C6	9.29	1.41	1.34
25	BB	1335	C	N3-C4	-9.29	1.27	1.33
25	BB	771	G	N3-C4	9.28	1.42	1.35
25	BB	1587	G	N1-C2	-9.28	1.30	1.37
3	A1	286	C	P-O5'	9.28	1.69	1.59
24	BA	46	A	O3'-P	-9.28	1.50	1.61
25	BB	1437	C	C2-N3	9.28	1.43	1.35
25	BB	1556	C	N3-C4	-9.28	1.27	1.33
3	A1	969	A	C6-N1	-9.28	1.29	1.35
25	BB	1826	G	C2-N2	-9.28	1.25	1.34
25	BB	2461	A	N7-C5	9.28	1.44	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	260	G	C6-N1	-9.27	1.33	1.39
25	BB	1531	C	C4'-O4'	-9.27	1.33	1.45
25	BB	639	U	C2-N3	-9.27	1.31	1.37
25	BB	1256	G	N3-C4	9.27	1.42	1.35
25	BB	1332	G	C6-N1	9.27	1.46	1.39
25	BB	2727	A	N3-C4	9.26	1.40	1.34
25	BB	80	G	C2-N2	-9.26	1.25	1.34
25	BB	1434	A	C8-N7	9.26	1.38	1.31
3	A1	813	U	C4-C5	9.26	1.51	1.43
25	BB	1028	A	N3-C4	9.25	1.40	1.34
1	AE	67	A	C6-N6	-9.25	1.26	1.33
25	BB	670	A	N3-C4	9.25	1.40	1.34
25	BB	869	G	N1-C2	-9.25	1.30	1.37
25	BB	1784	A	N7-C5	9.25	1.44	1.39
25	BB	2836	U	N1-C2	9.25	1.46	1.38
25	BB	2201	G	N7-C5	9.25	1.44	1.39
25	BB	2689	U	P-O5'	-9.25	1.50	1.59
1	AA	26	G	C2-N2	-9.24	1.25	1.34
25	BB	155	A	C6-N1	-9.24	1.29	1.35
3	A1	192	A	C4'-O4'	-9.24	1.33	1.45
25	BB	190	A	N1-C2	-9.24	1.26	1.34
25	BB	890	C	N3-C4	-9.24	1.27	1.33
25	BB	1214	A	C5-C4	-9.24	1.32	1.38
25	BB	1994	C	C4'-C3'	-9.24	1.43	1.53
25	BB	1885	A	N9-C4	9.24	1.43	1.37
25	BB	692	C	N3-C4	-9.24	1.27	1.33
25	BB	1964	G	C6-N1	-9.24	1.33	1.39
25	BB	2215	C	C4-N4	-9.24	1.25	1.33
3	A1	1019	A	C3'-C2'	9.23	1.63	1.52
3	A1	1188	A	C6-N6	-9.23	1.26	1.33
25	BB	2894	G	C2-N2	-9.23	1.25	1.34
25	BB	407	G	N3-C4	9.23	1.42	1.35
25	BB	1077	A	C8-N7	-9.23	1.25	1.31
25	BB	1872	A	N3-C4	9.23	1.40	1.34
1	AA	26	G	N7-C5	9.23	1.44	1.39
3	A1	639	G	O3'-P	-9.23	1.50	1.61
3	A1	915	A	O3'-P	9.23	1.72	1.61
25	BB	1193	G	N1-C2	-9.23	1.30	1.37
25	BB	1480	C	C5'-C4'	9.23	1.62	1.51
25	BB	2300	C	O3'-P	-9.23	1.50	1.61
25	BB	317	G	N1-C2	-9.22	1.30	1.37
25	BB	1031	G	C8-N7	-9.22	1.25	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1844	C	C4-N4	-9.22	1.25	1.33
3	A1	414	A	N7-C5	9.22	1.44	1.39
25	BB	2538	C	C4-N4	-9.21	1.25	1.33
25	BB	855	G	N1-C2	-9.21	1.30	1.37
25	BB	1038	G	C6-N1	-9.21	1.33	1.39
25	BB	1697	G	N7-C5	9.21	1.44	1.39
25	BB	2174	C	N1-C6	9.21	1.42	1.37
25	BB	504	A	C4'-O4'	-9.21	1.33	1.45
25	BB	2000	C	N3-C4	-9.21	1.27	1.33
25	BB	306	U	N1-C2	9.20	1.46	1.38
25	BB	801	G	N9-C8	9.20	1.44	1.37
25	BB	855	G	N9-C4	9.20	1.45	1.38
25	BB	1186	G	N1-C2	-9.20	1.30	1.37
25	BB	1226	A	P-O5'	-9.20	1.50	1.59
25	BB	1914	C	O3'-P	-9.20	1.50	1.61
25	BB	1245	G	N7-C5	9.20	1.44	1.39
3	A1	682	G	C8-N7	9.20	1.36	1.30
25	BB	1001	A	N3-C4	9.20	1.40	1.34
25	BB	2642	G	C6-N1	-9.20	1.33	1.39
3	A1	1001	C	C2'-O2'	9.20	1.53	1.41
25	BB	1928	A	N9-C4	9.20	1.43	1.37
3	A1	670	G	O3'-P	-9.20	1.50	1.61
3	A1	1231	G	N1-C2	-9.20	1.30	1.37
3	A1	365	U	O3'-P	-9.19	1.50	1.61
25	BB	2413	G	N1-C2	-9.19	1.30	1.37
3	A1	453	G	C2-N2	-9.19	1.25	1.34
1	AA	57	G	C8-N7	9.19	1.36	1.30
3	A1	895	G	N7-C5	9.19	1.44	1.39
25	BB	1244	A	C5-C4	-9.19	1.32	1.38
25	BB	1819	A	C6-N1	-9.18	1.29	1.35
3	A1	1452	C	C4'-C3'	9.17	1.63	1.53
25	BB	886	A	C6-N1	-9.17	1.29	1.35
25	BB	2335	A	C5-C4	-9.17	1.32	1.38
1	AE	37	G	O4'-C1'	9.17	1.53	1.41
3	A1	1077	G	C5-C4	9.17	1.44	1.38
25	BB	730	A	N7-C5	9.17	1.44	1.39
25	BB	2800	A	N7-C5	9.17	1.44	1.39
3	A1	1163	A	N9-C4	-9.17	1.32	1.37
24	BA	80	U	C5'-C4'	9.17	1.62	1.51
25	BB	206	U	N1-C2	9.17	1.46	1.38
25	BB	700	G	N7-C5	-9.17	1.33	1.39
25	BB	1646	C	O3'-P	-9.17	1.50	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2483	C	O3'-P	-9.17	1.50	1.61
25	BB	2591	C	N3-C4	-9.17	1.27	1.33
25	BB	869	G	C2-N2	-9.16	1.25	1.34
25	BB	1642	G	N9-C4	-9.16	1.30	1.38
25	BB	1941	C	C4-N4	-9.16	1.25	1.33
25	BB	529	A	N9-C4	9.16	1.43	1.37
25	BB	369	U	N3-C4	-9.16	1.30	1.38
3	A1	100	G	N3-C4	9.16	1.41	1.35
25	BB	1197	G	C2-N3	9.16	1.40	1.32
25	BB	2693	G	C5-C4	9.16	1.44	1.38
25	BB	1828	G	C2-N2	-9.15	1.25	1.34
3	A1	1354	U	C2-N3	9.15	1.44	1.37
1	AP	3	G	C2-N2	-9.15	1.25	1.34
3	A1	685	G	C3'-C2'	9.15	1.63	1.52
1	AP	29	A	N7-C5	9.14	1.44	1.39
3	A1	108	G	N7-C5	9.14	1.44	1.39
3	A1	1388	C	C5-C6	9.14	1.41	1.34
25	BB	2040	G	N3-C4	9.14	1.41	1.35
3	A1	936	C	N3-C4	-9.14	1.27	1.33
25	BB	2806	C	N3-C4	-9.14	1.27	1.33
3	A1	847	G	C8-N7	-9.13	1.25	1.30
3	A1	669	G	C8-N7	9.13	1.36	1.30
25	BB	208	C	N3-C4	-9.13	1.27	1.33
25	BB	2550	G	C2-N2	-9.13	1.25	1.34
3	A1	115	G	C5-C6	9.13	1.51	1.42
3	A1	645	G	C5-C6	9.13	1.51	1.42
25	BB	437	U	N1-C2	9.13	1.46	1.38
25	BB	741	U	N1-C2	9.13	1.46	1.38
25	BB	968	C	N3-C4	-9.12	1.27	1.33
3	A1	17	U	C4-C5	9.12	1.51	1.43
25	BB	1457	U	C2-N3	9.12	1.44	1.37
25	BB	721	A	N3-C4	9.12	1.40	1.34
25	BB	1893	C	C4-N4	-9.12	1.25	1.33
25	BB	1150	C	C4-C5	-9.12	1.35	1.43
25	BB	1538	G	N1-C2	-9.12	1.30	1.37
25	BB	2152	G	N9-C8	-9.12	1.31	1.37
3	A1	898	G	N1-C2	-9.11	1.30	1.37
25	BB	403	U	N1-C2	9.11	1.46	1.38
25	BB	2037	A	C6-N1	-9.11	1.29	1.35
25	BB	2415	G	N1-C2	-9.11	1.30	1.37
25	BB	2526	G	C2-N2	-9.11	1.25	1.34
25	BB	2735	G	N3-C4	9.11	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	6	U	C4'-O4'	-9.11	1.33	1.45
3	A1	445	G	N7-C5	9.11	1.44	1.39
3	A1	1419	G	N3-C4	9.11	1.41	1.35
25	BB	1941	C	P-O5'	9.11	1.68	1.59
25	BB	351	C	C4-N4	-9.11	1.25	1.33
25	BB	687	C	N3-C4	-9.11	1.27	1.33
3	A1	1446	A	C5-C4	-9.10	1.32	1.38
25	BB	48	G	C3'-C2'	9.10	1.62	1.52
25	BB	341	C	N3-C4	-9.10	1.27	1.33
3	A1	1404	C	C4-N4	-9.10	1.25	1.33
3	A1	1422	G	C5-C4	-9.10	1.31	1.38
3	A1	228	A	N1-C2	-9.09	1.26	1.34
3	A1	1144	G	C2-N2	-9.09	1.25	1.34
25	BB	1609	A	C5-C4	-9.09	1.32	1.38
25	BB	1778	U	C2-N3	9.09	1.44	1.37
25	BB	2701	U	N1-C2	9.09	1.46	1.38
25	BB	2865	U	N1-C2	9.09	1.46	1.38
25	BB	966	G	C2-N2	-9.09	1.25	1.34
25	BB	975	A	P-O5'	9.09	1.68	1.59
3	A1	1117	A	C5-C4	-9.09	1.32	1.38
25	BB	1347	A	C6-N1	-9.09	1.29	1.35
25	BB	165	A	N3-C4	9.08	1.40	1.34
25	BB	2114	A	N7-C5	9.08	1.44	1.39
3	A1	1065	U	C4'-O4'	-9.08	1.33	1.45
25	BB	536	G	N3-C4	9.07	1.41	1.35
25	BB	1089	A	P-O5'	9.07	1.68	1.59
25	BB	2507	C	C4-N4	-9.07	1.25	1.33
25	BB	2170	A	C6-N1	-9.07	1.29	1.35
3	A1	182	A	N3-C4	9.07	1.40	1.34
3	A1	326	G	C4'-C3'	9.07	1.63	1.53
3	A1	266	G	N9-C8	-9.06	1.31	1.37
24	BA	43	C	C4-N4	-9.06	1.25	1.33
25	BB	2146	C	C2-N3	-9.06	1.28	1.35
25	BB	515	A	N9-C4	-9.06	1.32	1.37
25	BB	2550	G	P-O5'	9.06	1.68	1.59
24	BA	23	G	N1-C2	-9.06	1.30	1.37
25	BB	778	G	C2-N2	-9.05	1.25	1.34
25	BB	2705	A	N3-C4	9.05	1.40	1.34
3	A1	495	A	C6-N1	-9.05	1.29	1.35
25	BB	2328	A	N9-C4	9.05	1.43	1.37
3	A1	860	A	P-O5'	9.04	1.68	1.59
25	BB	898	C	N1-C6	9.04	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	392	C	C2-N3	-9.04	1.28	1.35
25	BB	1773	A	C6-N6	-9.04	1.26	1.33
3	A1	700	G	N3-C4	9.04	1.41	1.35
25	BB	1103	A	C6-N6	-9.04	1.26	1.33
25	BB	1332	G	N1-C2	-9.04	1.30	1.37
25	BB	1436	G	N1-C2	-9.04	1.30	1.37
10	AI	56	ARG	CZ-NH1	-9.03	1.21	1.33
25	BB	1676	A	C6-N6	-9.03	1.26	1.33
25	BB	829	A	C8-N7	-9.03	1.25	1.31
25	BB	1435	G	N7-C5	9.03	1.44	1.39
25	BB	2130	U	N1-C2	9.03	1.46	1.38
25	BB	1358	G	N3-C4	9.03	1.41	1.35
3	A1	1100	C	C4-N4	-9.02	1.25	1.33
3	A1	60	A	N3-C4	9.02	1.40	1.34
3	A1	408	A	N3-C4	9.02	1.40	1.34
3	A1	1139	G	N7-C5	9.02	1.44	1.39
3	A1	1338	G	C2-N2	-9.02	1.25	1.34
3	A1	670	G	C8-N7	9.01	1.36	1.30
3	A1	371	A	P-O5'	-9.01	1.50	1.59
25	BB	1072	C	O3'-P	-9.01	1.50	1.61
25	BB	1445	G	C6-N1	-9.01	1.33	1.39
3	A1	401	C	C4-N4	-9.01	1.25	1.33
25	BB	1322	A	N7-C5	9.01	1.44	1.39
1	AP	51	G	C2-N2	-9.01	1.25	1.34
25	BB	2758	A	N3-C4	9.01	1.40	1.34
25	BB	2811	G	N3-C4	9.01	1.41	1.35
24	BA	26	C	C4'-C3'	-9.01	1.43	1.53
25	BB	1704	C	N3-C4	-9.01	1.27	1.33
25	BB	2035	G	N7-C5	9.01	1.44	1.39
25	BB	2734	A	N9-C4	9.01	1.43	1.37
3	A1	1414	U	O3'-P	-9.00	1.50	1.61
3	A1	182	A	N7-C5	-9.00	1.33	1.39
3	A1	1325	C	C4-N4	-9.00	1.25	1.33
25	BB	583	G	N3-C4	9.00	1.41	1.35
25	BB	1916	A	C6-N1	-9.00	1.29	1.35
3	A1	685	G	O3'-P	-9.00	1.50	1.61
25	BB	1849	G	N9-C8	9.00	1.44	1.37
1	AE	62	A	N3-C4	8.99	1.40	1.34
3	A1	32	A	N3-C4	8.99	1.40	1.34
25	BB	1110	G	C6-N1	-8.99	1.33	1.39
25	BB	1372	U	P-O5'	8.99	1.68	1.59
25	BB	1424	G	C6-N1	-8.99	1.33	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	208	U	N1-C2	8.99	1.46	1.38
3	A1	591	U	C5-C6	8.99	1.42	1.34
3	A1	856	C	N3-C4	-8.99	1.27	1.33
25	BB	2254	C	N3-C4	-8.99	1.27	1.33
3	A1	423	G	N3-C4	-8.99	1.29	1.35
3	A1	996	A	N3-C4	8.99	1.40	1.34
25	BB	1354	A	N7-C5	8.99	1.44	1.39
25	BB	1358	G	C6-N1	-8.99	1.33	1.39
25	BB	802	A	N3-C4	8.99	1.40	1.34
24	BA	56	G	C2-N2	-8.98	1.25	1.34
25	BB	53	A	C6-N6	-8.98	1.26	1.33
25	BB	2034	U	P-O5'	-8.98	1.50	1.59
25	BB	1972	G	C3'-C2'	-8.98	1.42	1.52
25	BB	2558	C	C4-C5	-8.98	1.35	1.43
25	BB	1528	A	C6-N1	-8.98	1.29	1.35
3	A1	759	A	C6-N1	-8.97	1.29	1.35
3	A1	251	G	C3'-C2'	8.97	1.62	1.52
3	A1	1221	G	P-O5'	8.97	1.68	1.59
25	BB	201	C	C4-N4	-8.97	1.25	1.33
25	BB	1734	G	C2-N2	-8.97	1.25	1.34
25	BB	2778	A	N7-C5	8.97	1.44	1.39
3	A1	39	G	C2-N2	-8.97	1.25	1.34
25	BB	1110	G	N1-C2	-8.97	1.30	1.37
25	BB	1999	C	N3-C4	-8.97	1.27	1.33
25	BB	2162	G	N1-C2	-8.97	1.30	1.37
25	BB	2825	G	N1-C2	-8.97	1.30	1.37
24	BA	33	G	N1-C2	-8.97	1.30	1.37
25	BB	1109	C	C5-C6	8.97	1.41	1.34
25	BB	428	A	N3-C4	8.96	1.40	1.34
25	BB	261	G	N1-C2	-8.96	1.30	1.37
25	BB	1832	C	N3-C4	-8.96	1.27	1.33
1	AP	74	C	C4-N4	-8.96	1.25	1.33
3	A1	1013	G	N7-C5	8.96	1.44	1.39
3	A1	412	A	C4'-C3'	8.95	1.62	1.53
25	BB	2053	G	N1-C2	-8.95	1.30	1.37
24	BA	17	C	N1-C6	-8.95	1.31	1.37
25	BB	1619	G	P-O5'	-8.95	1.50	1.59
25	BB	2882	A	N3-C4	8.95	1.40	1.34
3	A1	846	G	N9-C4	8.95	1.45	1.38
25	BB	174	U	N1-C2	8.95	1.46	1.38
25	BB	79	C	C4-N4	-8.95	1.25	1.33
25	BB	1112	G	C8-N7	8.95	1.36	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	492	C	N3-C4	-8.95	1.27	1.33
3	A1	1241	G	N1-C2	-8.95	1.30	1.37
25	BB	2179	C	N1-C6	8.95	1.42	1.37
3	A1	87	C	C4-N4	-8.94	1.25	1.33
3	A1	518	C	C4-N4	-8.94	1.25	1.33
3	A1	708	C	N3-C4	-8.94	1.27	1.33
3	A1	1224	U	C4'-O4'	-8.94	1.33	1.45
25	BB	1477	A	N7-C5	8.94	1.44	1.39
3	A1	735	C	N1-C6	8.94	1.42	1.37
25	BB	655	A	N3-C4	8.94	1.40	1.34
25	BB	1251	C	N1-C6	8.94	1.42	1.37
25	BB	1902	C	C4-N4	-8.94	1.25	1.33
25	BB	2843	G	N1-C2	-8.94	1.30	1.37
25	BB	1448	G	N9-C8	-8.94	1.31	1.37
25	BB	1910	G	N3-C4	8.94	1.41	1.35
25	BB	2338	C	C4-N4	-8.94	1.25	1.33
25	BB	1132	U	P-O5'	-8.93	1.50	1.59
3	A1	314	C	C4-N4	-8.93	1.25	1.33
3	A1	927	G	C5-C6	8.93	1.51	1.42
25	BB	283	G	N1-C2	-8.93	1.30	1.37
25	BB	553	G	N7-C5	8.93	1.44	1.39
25	BB	825	A	C5-C6	8.93	1.49	1.41
1	AP	28	C	C4-N4	-8.93	1.25	1.33
25	BB	210	C	C4-N4	-8.93	1.25	1.33
25	BB	1187	G	C5-C6	8.93	1.51	1.42
3	A1	49	U	C4-C5	8.93	1.51	1.43
3	A1	285	C	N1-C6	8.92	1.42	1.37
25	BB	165	A	N7-C5	8.92	1.44	1.39
3	A1	1277	C	C5'-C4'	8.92	1.62	1.51
25	BB	470	A	N9-C4	8.92	1.43	1.37
25	BB	1623	G	C6-N1	-8.92	1.33	1.39
25	BB	388	G	C5'-C4'	8.92	1.62	1.51
25	BB	1418	G	N7-C5	-8.92	1.33	1.39
25	BB	1341	G	C2-N2	-8.92	1.25	1.34
3	A1	1019	A	C6-N6	-8.91	1.26	1.33
25	BB	778	G	N1-C2	-8.91	1.30	1.37
25	BB	1356	G	N7-C5	8.91	1.44	1.39
25	BB	2675	A	C6-N1	-8.91	1.29	1.35
25	BB	138	U	C2-N3	8.91	1.44	1.37
25	BB	285	G	C6-N1	-8.91	1.33	1.39
25	BB	392	U	N1-C2	8.91	1.46	1.38
25	BB	1423	G	N3-C4	8.91	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	764	C	C5'-C4'	8.91	1.62	1.51
25	BB	1794	A	O3'-P	-8.91	1.50	1.61
1	AP	41	U	C2-N3	8.91	1.44	1.37
25	BB	1987	A	C6-N6	-8.91	1.26	1.33
25	BB	1278	C	C2-O2	-8.90	1.16	1.24
25	BB	1556	C	C5-C6	8.90	1.41	1.34
3	A1	445	G	N1-C2	-8.90	1.30	1.37
25	BB	2029	G	C6-N1	8.90	1.45	1.39
25	BB	2048	G	N7-C5	-8.90	1.33	1.39
25	BB	25	U	C2-N3	-8.90	1.31	1.37
25	BB	371	A	N1-C2	-8.90	1.26	1.34
25	BB	1267	U	P-O5'	8.90	1.68	1.59
3	A1	193	C	P-O5'	-8.90	1.50	1.59
3	A1	958	A	P-O5'	-8.90	1.50	1.59
3	A1	1179	A	C6-N6	-8.90	1.26	1.33
25	BB	1975	G	C2-N3	-8.90	1.25	1.32
25	BB	2597	G	P-O5'	-8.90	1.50	1.59
25	BB	2704	C	N1-C6	8.90	1.42	1.37
25	BB	1884	G	C2-N2	-8.90	1.25	1.34
3	A1	382	A	N7-C5	8.89	1.44	1.39
25	BB	1101	U	O3'-P	-8.89	1.50	1.61
3	A1	1353	G	N7-C5	8.89	1.44	1.39
3	A1	673	A	C8-N7	-8.89	1.25	1.31
3	A1	1136	C	N1-C6	8.89	1.42	1.37
25	BB	394	C	C4-N4	-8.89	1.25	1.33
25	BB	731	C	N3-C4	-8.89	1.27	1.33
25	BB	1509	A	C6-N6	-8.89	1.26	1.33
25	BB	2543	G	C8-N7	-8.89	1.25	1.30
25	BB	289	G	N7-C5	8.89	1.44	1.39
25	BB	1845	G	N7-C5	8.89	1.44	1.39
25	BB	1875	G	C6-N1	-8.89	1.33	1.39
25	BB	2127	G	N1-C2	-8.89	1.30	1.37
3	A1	172	A	C6-N6	-8.88	1.26	1.33
3	A1	1163	A	C6-N6	-8.89	1.26	1.33
25	BB	615	U	O3'-P	-8.89	1.50	1.61
25	BB	1205	A	C6-N1	-8.88	1.29	1.35
25	BB	2365	G	N7-C5	8.88	1.44	1.39
25	BB	2652	C	N3-C4	-8.88	1.27	1.33
3	A1	332	G	N7-C5	8.88	1.44	1.39
25	BB	2516	A	N7-C5	8.88	1.44	1.39
1	AP	14	A	C2-N3	8.88	1.41	1.33
25	BB	1114	C	N1-C6	8.88	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1	G	N7-C5	8.88	1.44	1.39
3	A1	666	G	N9-C8	8.88	1.44	1.37
1	AA	46	G	C5-C4	8.87	1.44	1.38
1	AE	8	U	C5-C6	8.87	1.42	1.34
3	A1	6	G	N7-C5	8.87	1.44	1.39
1	AA	31	A	C3'-C2'	8.87	1.62	1.52
3	A1	312	C	C4-N4	-8.87	1.25	1.33
25	BB	71	A	N7-C5	8.87	1.44	1.39
25	BB	911	A	N9-C4	-8.87	1.32	1.37
24	BA	3	C	C2-N3	-8.87	1.28	1.35
3	A1	1219	A	N7-C5	8.87	1.44	1.39
3	A1	13	U	N1-C2	8.86	1.46	1.38
25	BB	290	U	C2-N3	8.86	1.44	1.37
25	BB	314	C	C4-C5	-8.86	1.35	1.43
25	BB	786	C	P-O5'	-8.86	1.50	1.59
25	BB	1370	C	P-O5'	8.86	1.68	1.59
3	A1	1329	A	C6-N6	-8.86	1.26	1.33
25	BB	938	G	C2'-C1'	8.86	1.63	1.53
25	BB	2363	G	O3'-P	-8.86	1.50	1.61
25	BB	1063	G	N1-C2	-8.86	1.30	1.37
25	BB	1553	A	C5-C4	-8.86	1.32	1.38
25	BB	1802	A	C6-N6	-8.86	1.26	1.33
3	A1	71	A	N7-C5	8.86	1.44	1.39
3	A1	412	A	P-O5'	-8.86	1.50	1.59
25	BB	281	C	C4-N4	-8.86	1.25	1.33
25	BB	2149	U	N1-C2	8.86	1.46	1.38
25	BB	1814	G	C6-N1	-8.86	1.33	1.39
3	A1	279	A	N3-C4	8.85	1.40	1.34
24	BA	99	A	N7-C5	8.85	1.44	1.39
25	BB	2330	G	C3'-C2'	8.85	1.62	1.52
1	AE	18	G	N1-C2	-8.85	1.30	1.37
25	BB	1161	C	N1-C6	8.85	1.42	1.37
3	A1	31	G	N1-C2	-8.85	1.30	1.37
3	A1	818	G	C6-N1	-8.85	1.33	1.39
25	BB	1	G	O3'-P	-8.85	1.50	1.61
25	BB	973	A	N7-C5	8.85	1.44	1.39
25	BB	933	A	N7-C5	8.85	1.44	1.39
1	AA	13	C	C4-N4	-8.85	1.25	1.33
25	BB	256	A	N1-C2	-8.84	1.26	1.34
25	BB	660	C	N3-C4	-8.84	1.27	1.33
25	BB	2685	G	N1-C2	-8.84	1.30	1.37
25	BB	2204	G	P-O5'	-8.84	1.50	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1378	A	C6-N1	-8.84	1.29	1.35
25	BB	1632	A	C6-N1	-8.84	1.29	1.35
25	BB	269	C	C2-O2	-8.84	1.16	1.24
3	A1	703	G	N3-C4	8.83	1.41	1.35
24	BA	114	C	P-O5'	-8.83	1.50	1.59
25	BB	333	G	C8-N7	-8.83	1.25	1.30
25	BB	1137	G	C6-N1	-8.83	1.33	1.39
25	BB	1268	A	C5'-C4'	8.83	1.61	1.51
25	BB	2826	A	C6-N1	-8.83	1.29	1.35
25	BB	2646	C	C4-N4	-8.83	1.26	1.33
3	A1	146	G	N7-C5	8.83	1.44	1.39
25	BB	449	A	N3-C4	8.82	1.40	1.34
25	BB	693	A	C6-N6	-8.82	1.26	1.33
25	BB	2489	U	C3'-C2'	8.82	1.62	1.52
1	AA	4	G	C8-N7	-8.82	1.25	1.30
3	A1	1266	G	C2-N2	-8.82	1.25	1.34
25	BB	1035	U	C2-N3	-8.82	1.31	1.37
25	BB	2512	C	C4-N4	-8.82	1.26	1.33
25	BB	551	G	C5-C4	-8.82	1.32	1.38
25	BB	2285	C	C5-C6	8.82	1.41	1.34
25	BB	1691	C	C4-N4	-8.81	1.26	1.33
25	BB	2382	G	N1-C2	-8.81	1.30	1.37
3	A1	1231	G	N7-C5	8.81	1.44	1.39
25	BB	2787	C	N3-C4	-8.81	1.27	1.33
25	BB	1304	A	N7-C5	8.81	1.44	1.39
3	A1	161	A	C5'-C4'	8.80	1.61	1.51
25	BB	1593	A	C6-N1	-8.81	1.29	1.35
25	BB	498	G	N9-C8	-8.80	1.31	1.37
25	BB	1748	C	O3'-P	-8.80	1.50	1.61
25	BB	2267	A	N3-C4	8.80	1.40	1.34
3	A1	1487	G	N9-C8	8.80	1.44	1.37
25	BB	777	G	C2-N2	-8.80	1.25	1.34
25	BB	2002	G	C6-N1	8.80	1.45	1.39
25	BB	2868	A	C5-C4	-8.80	1.32	1.38
3	A1	622	A	N9-C4	8.80	1.43	1.37
25	BB	2876	G	C8-N7	-8.80	1.25	1.30
3	A1	1316	G	N7-C5	8.80	1.44	1.39
25	BB	1994	C	C2'-C1'	-8.80	1.43	1.53
25	BB	2499	C	N1-C6	8.80	1.42	1.37
25	BB	2838	G	N7-C5	8.80	1.44	1.39
25	BB	2889	C	C4-N4	-8.80	1.26	1.33
3	A1	508	U	O3'-P	-8.80	1.50	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	656	G	C8-N7	-8.80	1.25	1.30
25	BB	582	A	C6-N6	-8.79	1.26	1.33
3	A1	1312	G	N1-C2	-8.79	1.30	1.37
3	A1	1520	C	C4-N4	-8.79	1.26	1.33
25	BB	2250	G	C6-N1	-8.79	1.33	1.39
3	A1	329	A	C5'-C4'	8.79	1.61	1.51
25	BB	776	G	C2-N2	-8.79	1.25	1.34
25	BB	962	G	C2-N2	-8.79	1.25	1.34
25	BB	1595	C	C4-N4	-8.79	1.26	1.33
25	BB	1710	G	N3-C4	8.79	1.41	1.35
25	BB	2647	U	C2'-C1'	-8.79	1.43	1.53
25	BB	1632	A	N3-C4	8.78	1.40	1.34
25	BB	2828	G	C2-N3	-8.79	1.25	1.32
3	A1	656	G	N7-C5	8.78	1.44	1.39
3	A1	747	A	C6-N1	-8.78	1.29	1.35
25	BB	1375	U	C2-N3	8.78	1.43	1.37
25	BB	2045	C	C4-N4	-8.78	1.26	1.33
25	BB	2694	G	N7-C5	8.78	1.44	1.39
25	BB	2713	U	N3-C4	-8.78	1.30	1.38
3	A1	640	A	C6-N1	-8.78	1.29	1.35
25	BB	7	G	C8-N7	8.78	1.36	1.30
25	BB	102	U	C4-O4	-8.78	1.16	1.23
25	BB	2571	U	C2'-C1'	8.78	1.63	1.53
25	BB	2744	G	C6-N1	-8.78	1.33	1.39
3	A1	280	C	P-O5'	-8.77	1.50	1.59
25	BB	180	G	N7-C5	8.77	1.44	1.39
25	BB	716	A	N9-C4	8.77	1.43	1.37
3	A1	451	A	N7-C5	8.77	1.44	1.39
3	A1	1193	G	C2'-O2'	8.76	1.53	1.41
3	A1	741	G	N1-C2	-8.76	1.30	1.37
3	A1	878	A	C5-C4	-8.76	1.32	1.38
25	BB	376	G	C6-N1	-8.76	1.33	1.39
3	A1	888	G	N3-C4	8.76	1.41	1.35
3	A1	797	C	C4-N4	-8.76	1.26	1.33
25	BB	2033	A	O3'-P	-8.76	1.50	1.61
1	AE	61	C	N3-C4	-8.75	1.27	1.33
25	BB	316	C	C2-N3	-8.75	1.28	1.35
25	BB	1097	U	C3'-C2'	8.75	1.62	1.52
25	BB	1934	C	C2-O2	-8.75	1.16	1.24
25	BB	2697	G	C8-N7	-8.75	1.25	1.30
3	A1	462	G	C3'-C2'	8.75	1.62	1.52
25	BB	429	A	N3-C4	8.75	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1460	U	C5'-C4'	8.74	1.61	1.51
25	BB	797	G	N9-C8	8.74	1.44	1.37
25	BB	1484	U	C5-C6	8.74	1.42	1.34
25	BB	538	A	C6-N1	-8.74	1.29	1.35
3	A1	142	G	C2-N2	-8.74	1.25	1.34
25	BB	428	A	C6-N1	-8.74	1.29	1.35
25	BB	594	U	O3'-P	-8.74	1.50	1.61
3	A1	1378	C	C4-N4	-8.74	1.26	1.33
25	BB	1740	G	C6-O6	-8.74	1.16	1.24
3	A1	867	G	C5-C6	8.73	1.51	1.42
24	BA	97	C	N3-C4	-8.73	1.27	1.33
25	BB	271	G	N1-C2	-8.73	1.30	1.37
1	AP	69	U	N1-C2	8.73	1.46	1.38
25	BB	979	A	N9-C4	-8.73	1.32	1.37
3	A1	53	A	N7-C5	8.73	1.44	1.39
3	A1	155	A	C6-N6	-8.73	1.26	1.33
3	A1	332	G	N1-C2	-8.73	1.30	1.37
25	BB	1222	U	C5-C6	8.73	1.42	1.34
25	BB	2236	U	C3'-C2'	8.73	1.62	1.52
3	A1	1490	U	C2-N3	8.73	1.43	1.37
25	BB	773	U	C2-N3	8.73	1.43	1.37
3	A1	709	U	C5-C6	8.72	1.42	1.34
25	BB	1046	A	C5-C4	-8.72	1.32	1.38
25	BB	1641	A	N9-C4	8.72	1.43	1.37
25	BB	2846	G	O3'-P	-8.72	1.50	1.61
3	A1	243	A	N3-C4	8.72	1.40	1.34
3	A1	739	C	C2-O2	-8.72	1.16	1.24
25	BB	24	G	O3'-P	-8.72	1.50	1.61
25	BB	590	A	C5-C4	-8.72	1.32	1.38
25	BB	2336	A	C6-N6	-8.72	1.26	1.33
25	BB	791	C	C4-N4	-8.72	1.26	1.33
3	A1	514	C	C4-N4	-8.72	1.26	1.33
24	BA	49	C	C4-N4	-8.71	1.26	1.33
24	BA	49	C	N3-C4	-8.71	1.27	1.33
25	BB	608	A	C5-C6	8.72	1.48	1.41
3	A1	1137	C	C4-N4	-8.71	1.26	1.33
3	A1	935	A	N7-C5	8.71	1.44	1.39
3	A1	1438	G	C5-C6	8.71	1.51	1.42
25	BB	823	C	N3-C4	-8.71	1.27	1.33
25	BB	936	A	N7-C5	8.71	1.44	1.39
25	BB	1160	G	N1-C2	-8.71	1.30	1.37
25	BB	2604	U	C5-C6	8.70	1.42	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1744	A	N3-C4	8.70	1.40	1.34
3	A1	80	A	N7-C5	8.70	1.44	1.39
3	A1	1518	A	C2'-C1'	8.70	1.62	1.53
3	A1	108	G	C5-C6	8.69	1.51	1.42
25	BB	1393	A	N9-C4	-8.69	1.32	1.37
25	BB	2298	A	O3'-P	-8.69	1.50	1.61
3	A1	756	C	N3-C4	-8.69	1.27	1.33
3	A1	890	G	C5-C6	8.69	1.51	1.42
25	BB	2644	G	N7-C5	8.69	1.44	1.39
25	BB	226	A	N9-C4	-8.69	1.32	1.37
25	BB	1643	G	N1-C2	-8.69	1.30	1.37
3	A1	517	G	C2-N2	-8.68	1.25	1.34
25	BB	426	C	N3-C4	-8.68	1.27	1.33
30	BG	4	ARG	CZ-NH2	-8.68	1.21	1.33
25	BB	594	U	C5'-C4'	8.68	1.61	1.51
25	BB	1012	U	N3-C4	-8.68	1.30	1.38
25	BB	435	C	N3-C4	-8.68	1.27	1.33
25	BB	1272	A	C8-N7	8.68	1.37	1.31
25	BB	1727	C	P-O5'	8.68	1.68	1.59
3	A1	428	G	N1-C2	-8.68	1.30	1.37
25	BB	2440	C	C4-N4	-8.68	1.26	1.33
3	A1	425	G	C6-N1	-8.68	1.33	1.39
24	BA	72	G	N1-C2	-8.68	1.30	1.37
3	A1	1318	A	C6-N1	-8.67	1.29	1.35
25	BB	2391	G	N7-C5	8.67	1.44	1.39
25	BB	422	A	C6-N1	-8.67	1.29	1.35
25	BB	2619	C	C4-N4	-8.67	1.26	1.33
3	A1	1278	G	N1-C2	-8.67	1.30	1.37
25	BB	360	U	C5-C6	8.67	1.42	1.34
25	BB	612	G	C6-N1	-8.67	1.33	1.39
3	A1	187	G	N1-C2	-8.66	1.30	1.37
3	A1	890	G	C2-N2	-8.66	1.25	1.34
3	A1	1368	A	O3'-P	-8.66	1.50	1.61
25	BB	1072	C	N3-C4	-8.66	1.27	1.33
3	A1	36	C	C5-C6	8.66	1.41	1.34
3	A1	876	C	N3-C4	-8.66	1.27	1.33
3	A1	1296	C	C4-N4	-8.66	1.26	1.33
25	BB	780	G	C2'-C1'	8.66	1.62	1.53
25	BB	1763	G	N9-C4	8.66	1.44	1.38
1	AA	5	A	N9-C4	8.66	1.43	1.37
25	BB	991	C	C4-N4	-8.66	1.26	1.33
25	BB	1524	G	N7-C5	8.66	1.44	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1833	C	C4-N4	-8.66	1.26	1.33
3	A1	230	G	C3'-C2'	8.65	1.62	1.52
3	A1	355	C	C4-C5	-8.65	1.36	1.43
25	BB	1098	A	P-O5'	-8.65	1.51	1.59
25	BB	1144	A	C6-N1	-8.65	1.29	1.35
25	BB	271	G	C2-N2	-8.65	1.25	1.34
25	BB	391	A	N3-C4	8.65	1.40	1.34
3	A1	862	C	C4-N4	-8.65	1.26	1.33
25	BB	2397	G	P-O5'	8.65	1.68	1.59
3	A1	160	A	O3'-P	-8.65	1.50	1.61
3	A1	204	G	C6-N1	-8.65	1.33	1.39
3	A1	702	A	N7-C5	8.65	1.44	1.39
3	A1	1108	G	N9-C4	8.65	1.44	1.38
25	BB	39	G	C2-N2	-8.65	1.25	1.34
25	BB	1295	C	C4-N4	-8.65	1.26	1.33
3	A1	1174	G	C4'-O4'	-8.65	1.34	1.45
25	BB	1199	U	N1-C6	8.65	1.45	1.38
3	A1	102	G	C2-N2	-8.64	1.25	1.34
3	A1	307	C	C4-N4	-8.64	1.26	1.33
3	A1	1001	C	C4-N4	-8.64	1.26	1.33
25	BB	149	A	N7-C5	8.64	1.44	1.39
25	BB	2226	C	C4-N4	-8.64	1.26	1.33
25	BB	2813	A	N7-C5	8.64	1.44	1.39
3	A1	616	G	C2-N2	-8.64	1.25	1.34
3	A1	1259	C	C4-N4	-8.64	1.26	1.33
25	BB	2004	G	C2-N2	-8.64	1.25	1.34
25	BB	2186	G	N7-C5	-8.64	1.34	1.39
25	BB	1508	A	N9-C4	8.64	1.43	1.37
25	BB	2478	A	N7-C5	8.64	1.44	1.39
3	A1	324	G	O3'-P	-8.64	1.50	1.61
3	A1	849	G	C2-N2	-8.64	1.25	1.34
3	A1	1450	U	N3-C4	-8.64	1.30	1.38
25	BB	191	A	N3-C4	8.63	1.40	1.34
25	BB	1077	A	C5'-C4'	8.63	1.61	1.51
25	BB	2675	A	C6-N6	-8.63	1.27	1.33
3	A1	1177	G	N7-C5	8.63	1.44	1.39
3	A1	111	G	C2-N2	-8.63	1.25	1.34
3	A1	1531	A	C6-N1	-8.63	1.29	1.35
3	A1	378	G	N7-C5	8.63	1.44	1.39
1	AE	64	A	N9-C4	-8.63	1.32	1.37
3	A1	583	A	C6-N1	-8.63	1.29	1.35
25	BB	329	G	N1-C2	-8.63	1.30	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	877	A	N9-C8	-8.63	1.30	1.37
3	A1	1055	A	P-O5'	8.63	1.68	1.59
3	A1	1303	C	C4-C5	-8.63	1.36	1.43
3	A1	1177	G	N1-C2	-8.62	1.30	1.37
3	A1	1246	A	N3-C4	8.62	1.40	1.34
25	BB	459	U	C5'-C4'	8.63	1.61	1.51
25	BB	313	G	C2-N2	-8.62	1.25	1.34
25	BB	1049	C	C4-N4	-8.62	1.26	1.33
25	BB	2191	A	N3-C4	8.62	1.40	1.34
25	BB	2509	G	P-O5'	8.62	1.68	1.59
3	A1	130	A	C5'-C4'	8.62	1.61	1.51
3	A1	1213	A	P-O5'	8.62	1.68	1.59
25	BB	828	U	P-O5'	-8.62	1.51	1.59
3	A1	289	G	C8-N7	8.62	1.36	1.30
25	BB	2434	A	C6-N6	-8.62	1.27	1.33
25	BB	1243	C	O3'-P	-8.62	1.50	1.61
3	A1	1055	A	C5-C6	8.62	1.48	1.41
3	A1	581	G	P-O5'	8.61	1.68	1.59
3	A1	858	G	N1-C2	-8.61	1.30	1.37
25	BB	1212	G	N1-C2	-8.62	1.30	1.37
3	A1	939	G	C4'-C3'	-8.61	1.43	1.53
25	BB	814	C	C2-O2	-8.61	1.16	1.24
25	BB	1543	G	C4'-C3'	8.61	1.62	1.53
25	BB	2535	G	P-O5'	8.61	1.68	1.59
25	BB	2160	C	N1-C6	-8.61	1.31	1.37
25	BB	2572	A	N9-C4	8.61	1.43	1.37
3	A1	1245	C	N1-C6	8.61	1.42	1.37
25	BB	2211	A	N9-C4	-8.60	1.32	1.37
3	A1	1465	A	C6-N1	-8.60	1.29	1.35
25	BB	162	U	C2-N3	8.60	1.43	1.37
25	BB	911	A	C3'-C2'	8.60	1.62	1.52
25	BB	1254	A	O3'-P	-8.60	1.50	1.61
25	BB	2199	A	C5-C4	-8.60	1.32	1.38
25	BB	1766	G	C2-N3	8.60	1.39	1.32
25	BB	438	G	N3-C4	-8.60	1.29	1.35
25	BB	389	G	N7-C5	8.60	1.44	1.39
25	BB	1699	G	N9-C4	8.60	1.44	1.38
25	BB	2400	G	N7-C5	8.60	1.44	1.39
3	A1	1130	A	N9-C4	8.59	1.43	1.37
25	BB	503	A	N7-C5	8.59	1.44	1.39
25	BB	1050	A	C5-C4	-8.59	1.32	1.38
25	BB	2422	C	C4-N4	-8.59	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2742	G	C5'-C4'	8.59	1.61	1.51
3	A1	91	U	N1-C2	8.59	1.46	1.38
3	A1	504	C	N3-C4	-8.59	1.27	1.33
25	BB	756	A	P-O5'	8.59	1.68	1.59
3	A1	704	A	C2'-C1'	8.59	1.62	1.53
25	BB	192	C	C4-N4	-8.59	1.26	1.33
25	BB	327	G	C8-N7	8.59	1.36	1.30
24	BA	38	C	C2-N3	-8.59	1.28	1.35
25	BB	345	A	C8-N7	8.59	1.37	1.31
25	BB	1989	G	N3-C4	8.59	1.41	1.35
25	BB	964	C	N3-C4	-8.59	1.27	1.33
3	A1	553	A	C6-N1	-8.58	1.29	1.35
25	BB	374	A	N7-C5	-8.58	1.34	1.39
25	BB	539	G	N7-C5	8.58	1.44	1.39
25	BB	1852	U	N3-C4	-8.58	1.30	1.38
3	A1	927	G	N1-C2	-8.58	1.30	1.37
3	A1	176	C	N3-C4	-8.58	1.27	1.33
3	A1	231	U	C2-N3	8.58	1.43	1.37
3	A1	1483	A	N3-C4	8.58	1.40	1.34
25	BB	797	G	C2-N2	-8.58	1.25	1.34
25	BB	1189	A	C5'-C4'	8.58	1.61	1.51
25	BB	1223	G	N3-C4	8.58	1.41	1.35
25	BB	2115	G	N9-C8	8.58	1.43	1.37
25	BB	2885	G	N1-C2	-8.58	1.30	1.37
25	BB	2082	A	C5-C4	-8.58	1.32	1.38
25	BB	421	C	C2'-O2'	8.57	1.52	1.41
25	BB	1401	G	N1-C2	-8.57	1.30	1.37
24	BA	45	A	N7-C5	8.57	1.44	1.39
25	BB	203	A	C5-C4	-8.57	1.32	1.38
25	BB	829	A	C6-N1	-8.57	1.29	1.35
25	BB	2753	A	C6-N1	-8.57	1.29	1.35
3	A1	583	A	N3-C4	8.57	1.40	1.34
25	BB	977	G	C2-N2	-8.56	1.25	1.34
25	BB	1702	G	C5'-C4'	8.56	1.61	1.51
1	AA	37	G	N1-C2	-8.56	1.30	1.37
25	BB	39	G	C2-N3	-8.56	1.25	1.32
3	A1	820	U	N3-C4	-8.56	1.30	1.38
25	BB	2210	U	C2-O2	-8.56	1.14	1.22
25	BB	2752	C	C4-N4	-8.56	1.26	1.33
25	BB	2857	G	C6-N1	-8.56	1.33	1.39
3	A1	516	U	C2-N3	8.56	1.43	1.37
3	A1	693	G	N9-C8	8.56	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	10	A	C5-C4	-8.56	1.32	1.38
25	BB	738	G	N7-C5	8.56	1.44	1.39
25	BB	1836	C	C4-C5	-8.56	1.36	1.43
3	A1	178	C	P-O5'	-8.55	1.51	1.59
25	BB	1432	G	C2-N2	-8.55	1.25	1.34
25	BB	1451	C	C4-C5	-8.55	1.36	1.43
3	A1	1419	G	N9-C8	-8.55	1.31	1.37
3	A1	1432	G	C8-N7	8.55	1.36	1.30
25	BB	344	A	N9-C4	-8.55	1.32	1.37
25	BB	243	U	N1-C2	8.55	1.46	1.38
25	BB	621	A	N9-C4	8.55	1.43	1.37
25	BB	2891	U	N1-C6	8.55	1.45	1.38
3	A1	580	C	N3-C4	-8.54	1.27	1.33
3	A1	721	G	N1-C2	-8.54	1.30	1.37
3	A1	1048	G	C5-C4	8.54	1.44	1.38
25	BB	333	G	C2-N2	-8.54	1.26	1.34
25	BB	1139	G	N3-C4	8.54	1.41	1.35
25	BB	1264	A	C6-N1	-8.54	1.29	1.35
25	BB	2125	G	N9-C4	-8.54	1.31	1.38
25	BB	2803	G	C2-N2	-8.54	1.26	1.34
1	AA	6	U	C4-O4	-8.54	1.16	1.23
25	BB	339	U	C2-N3	-8.54	1.31	1.37
25	BB	1428	C	N3-C4	-8.54	1.27	1.33
25	BB	1895	C	C4-N4	-8.54	1.26	1.33
25	BB	2254	C	N1-C6	-8.54	1.32	1.37
25	BB	2597	G	N7-C5	8.54	1.44	1.39
3	A1	668	G	C4'-C3'	8.54	1.62	1.53
25	BB	1986	C	N3-C4	-8.54	1.27	1.33
24	BA	63	C	C4-C5	-8.54	1.36	1.43
25	BB	626	A	P-O5'	-8.54	1.51	1.59
25	BB	2220	U	C4-C5	8.54	1.51	1.43
25	BB	2820	A	N1-C2	-8.54	1.26	1.34
3	A1	1132	C	C5-C6	8.54	1.41	1.34
3	A1	1240	U	C4-C5	8.54	1.51	1.43
25	BB	631	A	N3-C4	8.54	1.40	1.34
25	BB	759	G	C5'-C4'	8.54	1.61	1.51
25	BB	1877	A	C5-C4	-8.54	1.32	1.38
3	A1	605	U	O3'-P	-8.53	1.50	1.61
25	BB	2839	G	N7-C5	8.53	1.44	1.39
1	AP	20	G	N7-C5	8.53	1.44	1.39
3	A1	528	C	N1-C6	8.53	1.42	1.37
4	AB	62	ARG	CZ-NH2	-8.53	1.22	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1425	G	C2-N2	-8.53	1.26	1.34
25	BB	1812	U	C4-O4	-8.53	1.16	1.23
25	BB	2179	C	N3-C4	-8.53	1.27	1.33
3	A1	295	C	N3-C4	-8.53	1.27	1.33
3	A1	898	G	C5-C6	8.53	1.50	1.42
3	A1	963	G	C6-N1	-8.53	1.33	1.39
25	BB	378	C	P-O5'	-8.53	1.51	1.59
25	BB	1081	U	N1-C2	8.53	1.46	1.38
25	BB	2803	G	C5'-C4'	8.53	1.61	1.51
25	BB	2101	A	N9-C8	-8.53	1.30	1.37
3	A1	111	G	P-O5'	8.53	1.68	1.59
3	A1	128	G	N7-C5	8.53	1.44	1.39
25	BB	496	G	C2-N2	-8.53	1.26	1.34
25	BB	1944	U	N3-C4	-8.53	1.30	1.38
3	A1	1242	G	C2-N2	-8.52	1.26	1.34
25	BB	1139	G	N7-C5	8.52	1.44	1.39
25	BB	1479	G	C6-N1	-8.52	1.33	1.39
25	BB	844	A	C3'-C2'	8.52	1.62	1.52
25	BB	2735	G	N7-C5	8.52	1.44	1.39
25	BB	586	A	N7-C5	-8.52	1.34	1.39
25	BB	1263	U	C2-N3	8.52	1.43	1.37
25	BB	1583	A	C6-N6	-8.52	1.27	1.33
25	BB	2150	C	N3-C4	-8.52	1.27	1.33
25	BB	2597	G	C2-N2	-8.52	1.26	1.34
3	A1	1261	A	C8-N7	8.51	1.37	1.31
25	BB	1925	C	N3-C4	-8.51	1.27	1.33
3	A1	760	G	C5-C6	8.51	1.50	1.42
3	A1	1377	A	N9-C8	8.51	1.44	1.37
25	BB	693	A	N7-C5	8.51	1.44	1.39
25	BB	2023	C	C4-N4	-8.51	1.26	1.33
25	BB	2050	C	C5'-C4'	8.51	1.61	1.51
1	AE	24	G	N9-C8	-8.51	1.31	1.37
3	A1	612	C	C5-C6	8.51	1.41	1.34
3	A1	1250	A	N3-C4	8.51	1.40	1.34
25	BB	2708	G	C6-N1	-8.51	1.33	1.39
3	A1	1499	A	N9-C4	8.51	1.43	1.37
3	A1	659	U	N1-C6	8.51	1.45	1.38
3	A1	675	A	C3'-C2'	8.51	1.62	1.52
3	A1	1292	G	N1-C2	-8.51	1.30	1.37
25	BB	302	C	C2-O2	-8.51	1.16	1.24
3	A1	82	G	C5'-C4'	8.50	1.61	1.51
3	A1	298	A	C6-N1	-8.50	1.29	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2739	U	P-O5'	8.50	1.68	1.59
24	BA	114	C	C3'-C2'	8.50	1.62	1.52
25	BB	875	G	C5-C6	8.50	1.50	1.42
25	BB	1408	G	C5-C6	8.50	1.50	1.42
25	BB	2095	A	N9-C4	8.50	1.43	1.37
25	BB	2436	G	C6-N1	-8.50	1.33	1.39
25	BB	2752	C	P-O5'	8.50	1.68	1.59
3	A1	1340	A	N3-C4	8.50	1.40	1.34
25	BB	1540	G	C2-N2	-8.50	1.26	1.34
3	A1	640	A	C8-N7	-8.50	1.25	1.31
25	BB	30	G	C2-N2	-8.50	1.26	1.34
25	BB	867	C	C4-N4	-8.50	1.26	1.33
25	BB	542	C	N1-C6	8.50	1.42	1.37
3	A1	364	A	C5-C6	8.49	1.48	1.41
25	BB	1056	G	N7-C5	8.49	1.44	1.39
25	BB	1122	G	N1-C2	-8.49	1.30	1.37
25	BB	1290	C	N1-C6	8.49	1.42	1.37
1	AE	54	U	C2-N3	8.49	1.43	1.37
25	BB	14	A	C5-C6	8.49	1.48	1.41
25	BB	1129	A	N7-C5	8.49	1.44	1.39
3	A1	698	G	P-O5'	-8.49	1.51	1.59
24	BA	54	G	N9-C4	8.49	1.44	1.38
25	BB	182	A	C6-N1	-8.49	1.29	1.35
25	BB	2299	U	N1-C2	8.49	1.46	1.38
25	BB	1710	G	C6-N1	8.49	1.45	1.39
25	BB	2067	G	C2-N2	-8.49	1.26	1.34
3	A1	530	G	N9-C4	8.49	1.44	1.38
3	A1	970	C	C4-N4	-8.49	1.26	1.33
25	BB	1254	A	N7-C5	8.49	1.44	1.39
25	BB	1510	G	C8-N7	-8.49	1.25	1.30
25	BB	1339	G	N1-C2	-8.48	1.30	1.37
25	BB	2168	G	N3-C4	8.48	1.41	1.35
25	BB	141	G	N9-C8	-8.48	1.31	1.37
3	A1	38	G	N9-C8	-8.48	1.31	1.37
3	A1	396	C	N3-C4	-8.48	1.28	1.33
3	A1	399	G	C6-N1	-8.48	1.33	1.39
25	BB	877	A	C6-N6	-8.48	1.27	1.33
25	BB	1687	G	N7-C5	8.48	1.44	1.39
25	BB	1854	A	P-O5'	-8.48	1.51	1.59
25	BB	1961	C	C4-C5	-8.48	1.36	1.43
3	A1	1227	A	N7-C5	8.47	1.44	1.39
25	BB	2007	U	C4-C5	8.47	1.51	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	150	U	C2-N3	8.47	1.43	1.37
3	A1	350	G	C6-N1	-8.47	1.33	1.39
3	A1	1422	G	C6-N1	-8.47	1.33	1.39
6	AD	93	ARG	CZ-NH1	-8.47	1.22	1.33
25	BB	1862	G	C3'-C2'	8.47	1.62	1.52
1	AA	14	A	C6-N6	-8.47	1.27	1.33
3	A1	233	C	C2-O2	-8.47	1.16	1.24
3	A1	499	A	N3-C4	-8.47	1.29	1.34
3	A1	1191	A	P-O5'	-8.47	1.51	1.59
25	BB	2348	U	C5'-C4'	8.47	1.61	1.51
3	A1	592	G	C2-N2	-8.47	1.26	1.34
3	A1	1071	C	C4-N4	-8.47	1.26	1.33
3	A1	1438	G	C8-N7	8.47	1.36	1.30
25	BB	2541	A	C6-N1	-8.47	1.29	1.35
25	BB	609	A	N7-C5	8.47	1.44	1.39
25	BB	2193	G	C2-N2	-8.47	1.26	1.34
25	BB	2742	G	P-O5'	-8.47	1.51	1.59
3	A1	240	G	N7-C5	8.46	1.44	1.39
3	A1	497	G	C2-N2	-8.46	1.26	1.34
25	BB	1086	A	C2'-C1'	8.46	1.62	1.53
25	BB	2429	G	N3-C4	8.46	1.41	1.35
3	A1	662	U	N1-C2	8.46	1.46	1.38
3	A1	1178	G	C8-N7	-8.46	1.25	1.30
25	BB	597	G	C2-N2	-8.46	1.26	1.34
25	BB	1268	A	C8-N7	-8.46	1.25	1.31
25	BB	722	A	C6-N1	-8.46	1.29	1.35
25	BB	1661	G	C2-N3	8.46	1.39	1.32
25	BB	2178	C	C4-N4	-8.46	1.26	1.33
3	A1	559	A	C6-N1	-8.46	1.29	1.35
3	A1	1138	G	N7-C5	8.46	1.44	1.39
3	A1	1165	U	N1-C2	8.46	1.46	1.38
25	BB	1897	G	C2-N2	-8.46	1.26	1.34
25	BB	2379	G	C6-N1	-8.46	1.33	1.39
3	A1	77	A	P-O5'	-8.45	1.51	1.59
3	A1	465	A	N1-C2	-8.45	1.26	1.34
25	BB	577	G	C3'-C2'	8.45	1.62	1.52
1	AP	41	U	N1-C6	8.45	1.45	1.38
24	BA	57	A	N3-C4	8.45	1.40	1.34
25	BB	918	A	C2'-O2'	8.45	1.52	1.41
25	BB	1994	C	C4-C5	-8.45	1.36	1.43
25	BB	2120	G	C2-N2	-8.45	1.26	1.34
3	A1	892	A	N9-C4	8.45	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1454	C	N3-C4	-8.45	1.28	1.33
1	AA	47	U	N1-C2	8.45	1.46	1.38
3	A1	437	U	P-O5'	-8.45	1.51	1.59
3	A1	1066	C	N1-C6	8.45	1.42	1.37
3	A1	1221	G	C5'-C4'	8.45	1.61	1.51
25	BB	1074	G	N1-C2	-8.45	1.30	1.37
25	BB	2004	G	C3'-C2'	8.44	1.62	1.52
3	A1	1390	U	N1-C2	8.44	1.46	1.38
25	BB	19	A	C6-N1	-8.44	1.29	1.35
25	BB	131	A	N7-C5	8.44	1.44	1.39
25	BB	1281	G	C6-N1	-8.44	1.33	1.39
25	BB	1896	G	C6-N1	-8.44	1.33	1.39
3	A1	1053	G	C5-C6	8.44	1.50	1.42
3	A1	1192	C	C5'-C4'	8.44	1.61	1.51
25	BB	1149	G	C2-N2	-8.44	1.26	1.34
25	BB	2025	C	C5-C6	8.44	1.41	1.34
25	BB	2251	G	C2-N2	-8.44	1.26	1.34
25	BB	2061	G	N3-C4	8.44	1.41	1.35
1	AE	16	U	N1-C2	8.43	1.46	1.38
3	A1	325	A	P-O5'	8.43	1.68	1.59
3	A1	1186	G	N9-C8	-8.43	1.31	1.37
25	BB	49	A	C5-C4	-8.43	1.32	1.38
3	A1	604	G	C2-N2	-8.43	1.26	1.34
25	BB	1259	G	C6-N1	-8.43	1.33	1.39
25	BB	1421	G	N1-C2	-8.43	1.31	1.37
25	BB	1417	C	C2-O2	-8.43	1.16	1.24
25	BB	1886	U	C5'-C4'	8.43	1.61	1.51
3	A1	120	A	C6-N6	-8.43	1.27	1.33
25	BB	1616	A	C4'-C3'	8.43	1.62	1.53
51	B2	70	ARG	CZ-NH1	-8.43	1.22	1.33
25	BB	251	A	C5-C6	8.42	1.48	1.41
3	A1	682	G	N3-C4	8.42	1.41	1.35
25	BB	1695	G	C2-N2	-8.42	1.26	1.34
25	BB	1892	C	N1-C6	8.42	1.42	1.37
3	A1	10	A	C6-N6	-8.42	1.27	1.33
3	A1	1502	A	N9-C4	8.42	1.43	1.37
25	BB	1557	C	C4-N4	-8.42	1.26	1.33
3	A1	859	G	N1-C2	-8.42	1.31	1.37
3	A1	455	G	C5-C4	8.41	1.44	1.38
25	BB	324	A	C5'-C4'	8.41	1.61	1.51
25	BB	29	U	C4-O4	8.41	1.30	1.23
25	BB	265	A	P-O5'	8.41	1.68	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1207	C	N1-C6	8.41	1.42	1.37
25	BB	2452	C	N3-C4	-8.41	1.28	1.33
3	A1	1291	U	C5'-C4'	8.41	1.61	1.51
3	A1	617	G	N3-C4	8.40	1.41	1.35
3	A1	885	G	C2-N2	-8.40	1.26	1.34
25	BB	2565	A	C6-N6	-8.40	1.27	1.33
3	A1	815	A	C4'-C3'	8.40	1.62	1.53
1	AE	36	A	C5-C4	-8.40	1.32	1.38
25	BB	701	G	O4'-C1'	8.40	1.52	1.41
25	BB	797	G	C5'-C4'	8.40	1.61	1.51
25	BB	2082	A	C2'-C1'	8.40	1.62	1.53
25	BB	2649	C	N1-C6	8.40	1.42	1.37
3	A1	817	C	C4-N4	-8.39	1.26	1.33
25	BB	5	A	N7-C5	8.39	1.44	1.39
25	BB	2123	G	N3-C4	8.39	1.41	1.35
49	BZ	49	ARG	CZ-NH2	-8.39	1.22	1.33
3	A1	243	A	N1-C2	-8.39	1.26	1.34
25	BB	460	A	C6-N1	-8.39	1.29	1.35
25	BB	2270	A	C6-N1	-8.39	1.29	1.35
3	A1	441	A	C8-N7	8.39	1.37	1.31
3	A1	733	G	N9-C4	8.39	1.44	1.38
25	BB	2518	A	N9-C4	8.39	1.42	1.37
25	BB	2670	A	C5'-C4'	8.39	1.61	1.51
3	A1	187	G	N3-C4	8.38	1.41	1.35
25	BB	1521	G	C6-N1	-8.39	1.33	1.39
3	A1	894	G	N1-C2	-8.38	1.31	1.37
25	BB	248	G	N1-C2	-8.38	1.31	1.37
3	A1	414	A	P-O5'	-8.38	1.51	1.59
3	A1	468	A	C2-N3	-8.38	1.26	1.33
25	BB	2741	A	N9-C4	-8.38	1.32	1.37
25	BB	2757	A	C2-N3	-8.38	1.26	1.33
3	A1	698	G	N3-C4	8.38	1.41	1.35
3	A1	1208	C	P-O5'	-8.38	1.51	1.59
3	A1	1382	C	C5-C6	8.38	1.41	1.34
3	A1	655	A	N3-C4	8.38	1.39	1.34
3	A1	733	G	C6-N1	-8.38	1.33	1.39
25	BB	642	U	C2-N3	8.38	1.43	1.37
25	BB	1490	A	C6-N6	-8.38	1.27	1.33
25	BB	1811	G	C4'-C3'	8.38	1.62	1.53
25	BB	2703	C	N3-C4	-8.38	1.28	1.33
3	A1	1191	A	N7-C5	8.38	1.44	1.39
25	BB	107	G	C2-N2	-8.38	1.26	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2025	C	C4-N4	-8.38	1.26	1.33
25	BB	2553	G	C2-N2	-8.38	1.26	1.34
3	A1	661	G	C2-N3	8.37	1.39	1.32
25	BB	2013	A	P-O5'	-8.37	1.51	1.59
25	BB	2153	C	C4-N4	-8.37	1.26	1.33
25	BB	1863	G	C5-C6	8.37	1.50	1.42
1	AA	45	G	N9-C8	8.37	1.43	1.37
3	A1	737	C	C4-C5	-8.37	1.36	1.43
3	A1	1261	A	C6-N6	-8.37	1.27	1.33
25	BB	2273	A	N3-C4	8.37	1.39	1.34
3	A1	1131	G	N1-C2	-8.37	1.31	1.37
25	BB	2569	G	C5-C6	8.37	1.50	1.42
1	AA	60	C	N3-C4	-8.37	1.28	1.33
3	A1	1242	G	P-O5'	-8.37	1.51	1.59
25	BB	1802	A	N7-C5	8.37	1.44	1.39
25	BB	2227	A	N7-C5	8.37	1.44	1.39
1	AE	76	A	N3-C4	8.36	1.39	1.34
25	BB	1762	A	C6-N1	-8.36	1.29	1.35
25	BB	866	A	N7-C5	8.36	1.44	1.39
25	BB	1184	U	O4'-C1'	8.36	1.52	1.41
25	BB	13	A	C6-N6	-8.36	1.27	1.33
1	AA	62	A	C6-N1	-8.35	1.29	1.35
25	BB	612	G	C8-N7	8.35	1.35	1.30
25	BB	717	C	P-O5'	8.35	1.68	1.59
25	BB	2525	G	C8-N7	-8.35	1.25	1.30
3	A1	748	G	P-O5'	8.35	1.68	1.59
25	BB	1422	G	P-O5'	-8.35	1.51	1.59
25	BB	1797	G	N1-C2	-8.35	1.31	1.37
25	BB	2630	G	C5'-C4'	8.35	1.61	1.51
3	A1	17	U	C5-C6	8.35	1.41	1.34
3	A1	1190	G	C5'-C4'	8.35	1.61	1.51
25	BB	1238	G	C2-N2	-8.35	1.26	1.34
25	BB	370	G	N3-C4	8.34	1.41	1.35
25	BB	1987	A	N9-C4	8.34	1.42	1.37
25	BB	2375	G	P-O5'	-8.34	1.51	1.59
25	BB	954	G	N7-C5	8.34	1.44	1.39
25	BB	2409	G	C8-N7	8.34	1.35	1.30
25	BB	2741	A	N3-C4	8.34	1.39	1.34
3	A1	663	A	N3-C4	8.34	1.39	1.34
3	A1	1455	G	N1-C2	-8.34	1.31	1.37
1	AE	61	C	C2'-C1'	8.34	1.62	1.53
3	A1	604	G	C5'-C4'	8.34	1.61	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	667	G	C2-N2	-8.34	1.26	1.34
3	A1	1187	G	C2-N2	-8.34	1.26	1.34
3	A1	428	G	C6-N1	-8.33	1.33	1.39
3	A1	1454	G	C2-N2	-8.33	1.26	1.34
25	BB	927	A	N3-C4	-8.33	1.29	1.34
24	BA	34	A	N9-C4	8.33	1.42	1.37
3	A1	76	G	N3-C4	8.33	1.41	1.35
3	A1	889	A	C6-N6	-8.33	1.27	1.33
25	BB	841	G	N9-C8	-8.33	1.32	1.37
25	BB	1449	G	P-O5'	-8.33	1.51	1.59
25	BB	396	G	N3-C4	8.33	1.41	1.35
25	BB	1492	G	C2-N2	-8.33	1.26	1.34
3	A1	1514	G	C2-N2	-8.32	1.26	1.34
25	BB	180	G	C4'-O4'	-8.32	1.34	1.45
25	BB	1880	U	N3-C4	-8.32	1.30	1.38
3	A1	975	A	C6-N1	-8.32	1.29	1.35
3	A1	1196	A	N7-C5	8.32	1.44	1.39
3	A1	164	G	N1-C2	-8.32	1.31	1.37
3	A1	1297	G	C2-N2	-8.32	1.26	1.34
3	A1	1497	G	C2'-C1'	-8.32	1.44	1.53
3	A1	350	G	N7-C5	8.32	1.44	1.39
3	A1	648	A	C6-N6	-8.32	1.27	1.33
3	A1	1129	C	C4-N4	-8.32	1.26	1.33
1	AA	64	A	O3'-P	-8.31	1.51	1.61
3	A1	1494	G	N3-C4	8.31	1.41	1.35
25	BB	1856	U	C2'-O2'	8.31	1.52	1.41
3	A1	1024	G	C2-N3	8.31	1.39	1.32
25	BB	334	C	O3'-P	-8.31	1.51	1.61
1	AP	61	C	N3-C4	-8.31	1.28	1.33
3	A1	205	A	N7-C5	8.31	1.44	1.39
3	A1	242	G	C8-N7	8.31	1.35	1.30
25	BB	743	A	C3'-C2'	8.31	1.62	1.52
25	BB	1781	U	N1-C2	8.31	1.46	1.38
25	BB	1911	U	N1-C2	8.31	1.46	1.38
25	BB	1075	C	C4'-C3'	8.31	1.62	1.53
25	BB	1121	C	N1-C6	8.31	1.42	1.37
25	BB	381	G	C5-C4	-8.31	1.32	1.38
37	BN	181	ARG	CZ-NH1	-8.31	1.22	1.33
3	A1	614	C	C5'-C4'	8.31	1.61	1.51
3	A1	901	A	C6-N6	-8.31	1.27	1.33
25	BB	358	U	O4'-C1'	8.31	1.52	1.41
3	A1	435	A	C4'-O4'	-8.30	1.34	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1507	A	O3'-P	-8.30	1.51	1.61
25	BB	68	G	N7-C5	-8.30	1.34	1.39
25	BB	319	G	C4'-O4'	-8.30	1.34	1.45
25	BB	1146	C	N1-C2	8.30	1.48	1.40
25	BB	1638	C	C4-N4	-8.30	1.26	1.33
25	BB	1746	A	C3'-C2'	8.30	1.62	1.52
25	BB	2249	U	O3'-P	-8.30	1.51	1.61
25	BB	2293	G	C6-N1	-8.30	1.33	1.39
1	AA	4	G	N3-C4	8.30	1.41	1.35
3	A1	22	G	C2-N2	-8.30	1.26	1.34
25	BB	1294	U	C5-C6	8.30	1.41	1.34
25	BB	1891	G	P-O5'	-8.30	1.51	1.59
3	A1	60	A	C8-N7	8.30	1.37	1.31
3	A1	1057	G	N7-C5	8.30	1.44	1.39
25	BB	940	G	O3'-P	-8.30	1.51	1.61
25	BB	1213	A	C6-N6	-8.30	1.27	1.33
3	A1	977	A	P-O5'	-8.29	1.51	1.59
24	BA	64	G	N1-C2	-8.29	1.31	1.37
25	BB	818	G	N9-C4	-8.29	1.31	1.38
25	BB	2854	G	N7-C5	-8.30	1.34	1.39
25	BB	2268	A	C8-N7	8.29	1.37	1.31
25	BB	1606	C	C4-C5	-8.29	1.36	1.43
25	BB	2387	U	O3'-P	-8.29	1.51	1.61
1	AE	62	A	N9-C4	8.29	1.42	1.37
25	BB	1981	A	N7-C5	8.29	1.44	1.39
25	BB	1118	C	C4-N4	-8.29	1.26	1.33
25	BB	1739	A	C5'-C4'	8.29	1.61	1.51
3	A1	1033	G	O3'-P	-8.29	1.51	1.61
24	BA	63	C	C4-N4	-8.28	1.26	1.33
25	BB	2570	G	N9-C8	8.28	1.43	1.37
3	A1	931	C	C4-N4	-8.28	1.26	1.33
25	BB	1722	A	C2-N3	8.28	1.41	1.33
3	A1	322	C	C5'-C4'	8.28	1.61	1.51
3	A1	1202	U	N3-C4	-8.28	1.30	1.38
3	A1	7	A	C6-N1	-8.28	1.29	1.35
3	A1	608	A	C5-C4	-8.28	1.32	1.38
3	A1	1152	A	N7-C5	8.28	1.44	1.39
25	BB	197	A	C6-N1	-8.28	1.29	1.35
3	A1	1369	C	N3-C4	-8.28	1.28	1.33
25	BB	249	C	C4'-O4'	-8.28	1.34	1.45
25	BB	686	U	C4'-O4'	-8.28	1.34	1.45
3	A1	51	A	C6-N1	-8.27	1.29	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	65	A	C6-N1	-8.27	1.29	1.35
3	A1	223	A	N7-C5	8.27	1.44	1.39
3	A1	1033	G	C5-C6	8.27	1.50	1.42
3	A1	1172	C	N1-C2	8.27	1.48	1.40
25	BB	227	A	C6-N1	-8.27	1.29	1.35
3	A1	1119	C	C4-N4	-8.27	1.26	1.33
3	A1	1323	G	N1-C2	-8.27	1.31	1.37
25	BB	261	G	C8-N7	-8.27	1.25	1.30
25	BB	1701	A	N7-C5	8.27	1.44	1.39
25	BB	1718	G	C2-N2	-8.27	1.26	1.34
25	BB	2677	G	N3-C4	8.27	1.41	1.35
1	AA	52	U	C4-C5	8.27	1.50	1.43
25	BB	126	A	N9-C8	8.27	1.44	1.37
25	BB	247	G	C8-N7	8.27	1.35	1.30
25	BB	2784	U	N3-C4	-8.27	1.31	1.38
3	A1	615	G	N9-C8	-8.26	1.32	1.37
3	A1	1011	C	C4-N4	-8.26	1.26	1.33
25	BB	1554	U	C5'-C4'	8.26	1.61	1.51
25	BB	2200	C	C2-N3	-8.26	1.29	1.35
25	BB	2376	A	C5'-C4'	8.26	1.61	1.51
25	BB	2383	G	N7-C5	8.26	1.44	1.39
25	BB	1455	G	C2-N2	-8.26	1.26	1.34
3	A1	839	C	N1-C6	8.26	1.42	1.37
25	BB	2137	U	N3-C4	-8.26	1.31	1.38
1	AP	22	G	C3'-C2'	8.26	1.62	1.52
3	A1	776	G	N7-C5	8.26	1.44	1.39
25	BB	1970	A	C3'-C2'	8.26	1.62	1.52
3	A1	229	U	C4'-O4'	-8.26	1.34	1.45
25	BB	176	A	C2'-O2'	-8.26	1.30	1.41
25	BB	2431	U	C3'-C2'	8.26	1.62	1.52
3	A1	107	G	N1-C2	-8.25	1.31	1.37
3	A1	1346	A	C6-N6	-8.25	1.27	1.33
25	BB	966	G	C5-C4	8.25	1.44	1.38
25	BB	160	A	N3-C4	8.25	1.39	1.34
25	BB	1163	G	N7-C5	8.25	1.44	1.39
25	BB	1504	A	C6-N6	-8.25	1.27	1.33
25	BB	1366	A	P-O5'	8.25	1.68	1.59
25	BB	2085	U	N3-C4	-8.25	1.31	1.38
25	BB	30	G	N9-C8	-8.25	1.32	1.37
25	BB	2330	G	P-O5'	8.25	1.68	1.59
25	BB	917	A	N3-C4	8.25	1.39	1.34
25	BB	1384	A	N7-C5	8.25	1.44	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2031	A	C2'-C1'	8.25	1.62	1.53
25	BB	1592	C	C4'-C3'	8.24	1.62	1.53
25	BB	1651	G	C6-N1	-8.24	1.33	1.39
25	BB	2110	G	C5-C4	8.24	1.44	1.38
25	BB	311	A	N3-C4	8.24	1.39	1.34
25	BB	1296	G	C5-C4	8.24	1.44	1.38
3	A1	251	G	C5-C4	-8.24	1.32	1.38
25	BB	757	G	C2-N3	-8.24	1.26	1.32
25	BB	1387	A	N9-C4	8.24	1.42	1.37
25	BB	2599	G	O3'-P	8.24	1.71	1.61
25	BB	168	G	O3'-P	-8.24	1.51	1.61
25	BB	8	C	N1-C2	8.24	1.48	1.40
25	BB	1888	G	C3'-C2'	8.24	1.62	1.52
3	A1	169	C	C4-N4	-8.23	1.26	1.33
3	A1	556	C	C4-N4	-8.23	1.26	1.33
25	BB	277	G	C5-C6	8.23	1.50	1.42
25	BB	456	C	C2-O2	-8.23	1.17	1.24
25	BB	944	C	C2'-C1'	-8.23	1.44	1.53
25	BB	585	G	C5-C4	8.23	1.44	1.38
25	BB	2010	G	C3'-C2'	8.23	1.62	1.52
3	A1	374	A	N7-C5	8.23	1.44	1.39
3	A1	1432	G	N1-C2	-8.23	1.31	1.37
24	BA	18	G	P-O5'	-8.23	1.51	1.59
25	BB	1362	C	C4'-O4'	-8.23	1.34	1.45
25	BB	2696	U	C5'-C4'	8.23	1.61	1.51
25	BB	1593	A	N3-C4	-8.23	1.29	1.34
25	BB	2750	A	C6-N6	-8.23	1.27	1.33
3	A1	353	A	C6-N6	-8.23	1.27	1.33
3	A1	1061	G	C2-N2	-8.23	1.26	1.34
25	BB	1727	C	N3-C4	-8.23	1.28	1.33
25	BB	2246	G	C8-N7	8.23	1.35	1.30
1	AP	64	A	C2'-C1'	8.23	1.62	1.53
3	A1	160	A	C6-N1	-8.23	1.29	1.35
25	BB	219	A	N9-C8	8.23	1.44	1.37
25	BB	2853	C	C2-N3	8.23	1.42	1.35
1	AP	56	C	C4-N4	-8.22	1.26	1.33
1	AP	45	G	C8-N7	8.22	1.35	1.30
3	A1	578	C	N3-C4	-8.22	1.28	1.33
25	BB	524	G	C4'-C3'	8.22	1.62	1.53
25	BB	743	A	O3'-P	-8.22	1.51	1.61
3	A1	1168	U	N1-C2	8.22	1.46	1.38
3	A1	805	C	C4-N4	-8.22	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	10	A	P-O5'	-8.22	1.51	1.59
25	BB	1149	G	N1-C2	-8.22	1.31	1.37
25	BB	1177	G	C4'-O4'	-8.22	1.34	1.45
3	A1	614	C	N3-C4	-8.22	1.28	1.33
3	A1	663	A	C4'-C3'	8.22	1.62	1.53
3	A1	1181	G	C6-O6	-8.22	1.16	1.24
25	BB	871	U	C2-N3	8.22	1.43	1.37
25	BB	900	A	P-O5'	8.22	1.68	1.59
25	BB	1743	G	C2-N2	-8.22	1.26	1.34
1	AA	15	G	N9-C8	-8.21	1.32	1.37
3	A1	73	C	C5-C6	8.22	1.41	1.34
3	A1	641	U	C4'-C3'	8.22	1.62	1.53
3	A1	1231	G	C2-N2	-8.22	1.26	1.34
3	A1	1509	C	C4-N4	-8.21	1.26	1.33
25	BB	2056	G	N3-C4	8.21	1.41	1.35
3	A1	1426	G	N1-C2	-8.21	1.31	1.37
1	AP	58	A	P-O5'	-8.21	1.51	1.59
3	A1	565	U	C4-O4	-8.21	1.17	1.23
25	BB	43	G	C2-N2	-8.21	1.26	1.34
25	BB	1990	C	C5'-C4'	8.21	1.61	1.51
3	A1	697	U	N1-C2	8.21	1.46	1.38
3	A1	1400	C	C4-N4	-8.21	1.26	1.33
25	BB	11	C	N3-C4	-8.21	1.28	1.33
25	BB	267	C	C4-N4	-8.21	1.26	1.33
25	BB	471	A	N7-C5	8.21	1.44	1.39
3	A1	1190	G	N7-C5	8.21	1.44	1.39
3	A1	1204	A	C5-C4	-8.21	1.33	1.38
3	A1	1434	A	O3'-P	-8.21	1.51	1.61
25	BB	2152	G	N7-C5	8.21	1.44	1.39
24	BA	83	G	N1-C2	-8.20	1.31	1.37
22	AW	122	ARG	CZ-NH1	-8.20	1.22	1.33
25	BB	1225	G	O3'-P	-8.20	1.51	1.61
25	BB	679	C	C2-N3	-8.20	1.29	1.35
25	BB	1222	U	C4'-O4'	-8.20	1.34	1.45
25	BB	2089	C	C4-N4	-8.20	1.26	1.33
25	BB	407	G	C4'-C3'	8.20	1.62	1.53
25	BB	1644	C	N3-C4	-8.20	1.28	1.33
3	A1	1515	G	C3'-C2'	8.20	1.61	1.52
25	BB	1092	C	C4-N4	-8.20	1.26	1.33
25	BB	1467	U	P-O5'	-8.20	1.51	1.59
25	BB	879	G	N1-C2	-8.19	1.31	1.37
25	BB	1161	C	C4-N4	-8.19	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1288	G	C5-C6	8.19	1.50	1.42
25	BB	1996	C	C4-N4	-8.20	1.26	1.33
25	BB	2274	A	N7-C5	8.20	1.44	1.39
3	A1	328	C	N1-C6	8.19	1.42	1.37
3	A1	656	G	N9-C8	-8.19	1.32	1.37
25	BB	2021	C	C4-N4	-8.19	1.26	1.33
25	BB	2209	G	N9-C8	8.19	1.43	1.37
25	BB	2602	A	N9-C4	8.19	1.42	1.37
3	A1	716	A	N3-C4	8.19	1.39	1.34
25	BB	684	G	C8-N7	8.19	1.35	1.30
25	BB	977	G	C6-O6	-8.19	1.16	1.24
25	BB	1441	G	N9-C8	8.19	1.43	1.37
25	BB	2004	G	N7-C5	8.19	1.44	1.39
25	BB	2895	G	N1-C2	-8.19	1.31	1.37
3	A1	523	A	N7-C5	8.19	1.44	1.39
24	BA	27	C	C4-N4	-8.19	1.26	1.33
25	BB	35	G	N7-C5	8.19	1.44	1.39
25	BB	787	C	C4-N4	-8.19	1.26	1.33
25	BB	2483	C	N3-C4	-8.18	1.28	1.33
6	AD	109	ARG	CZ-NH2	-8.18	1.22	1.33
25	BB	696	G	C2-N2	-8.18	1.26	1.34
25	BB	2382	G	C2'-O2'	8.18	1.52	1.41
25	BB	1129	A	C6-N1	-8.18	1.29	1.35
3	A1	212	G	C6-N1	-8.18	1.33	1.39
3	A1	1230	C	C4-N4	-8.18	1.26	1.33
25	BB	2115	G	C2-N3	8.18	1.39	1.32
3	A1	444	G	N9-C8	-8.18	1.32	1.37
25	BB	1746	A	C6-N6	-8.18	1.27	1.33
25	BB	2536	G	C2-N2	-8.18	1.26	1.34
24	BA	54	G	C2-N2	-8.18	1.26	1.34
25	BB	750	A	C6-N6	-8.18	1.27	1.33
25	BB	106	C	C4-N4	-8.17	1.26	1.33
25	BB	1866	A	C6-N6	-8.17	1.27	1.33
25	BB	2405	G	C2'-O2'	8.17	1.52	1.41
25	BB	1571	A	N7-C5	8.17	1.44	1.39
25	BB	596	U	C5'-C4'	8.17	1.61	1.51
25	BB	797	G	N9-C4	-8.17	1.31	1.38
3	A1	506	G	C2-N2	-8.17	1.26	1.34
3	A1	809	G	N1-C2	-8.17	1.31	1.37
3	A1	1360	A	N7-C5	8.17	1.44	1.39
7	AF	78	ARG	CZ-NH2	-8.17	1.22	1.33
25	BB	1767	G	C6-N1	-8.17	1.33	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	551	U	C2-N3	8.16	1.43	1.37
3	A1	581	G	N7-C5	8.16	1.44	1.39
3	A1	936	C	N1-C6	8.16	1.42	1.37
25	BB	1410	G	C2-N2	-8.16	1.26	1.34
3	A1	33	A	C2'-O2'	8.16	1.52	1.41
3	A1	1117	A	C4'-O4'	-8.16	1.34	1.45
24	BA	2	G	N3-C4	8.16	1.41	1.35
25	BB	103	A	N3-C4	8.16	1.39	1.34
25	BB	2789	C	C4-N4	-8.16	1.26	1.33
3	A1	203	G	C6-N1	-8.16	1.33	1.39
25	BB	1281	G	P-O5'	-8.16	1.51	1.59
25	BB	1181	U	C2'-C1'	8.16	1.62	1.53
25	BB	2017	U	N1-C2	8.16	1.45	1.38
25	BB	2456	C	C4-C5	-8.16	1.36	1.43
25	BB	2810	A	P-O5'	-8.16	1.51	1.59
1	AA	42	G	C8-N7	-8.16	1.26	1.30
3	A1	696	A	C6-N6	-8.16	1.27	1.33
3	A1	1416	G	C8-N7	8.16	1.35	1.30
25	BB	207	A	N3-C4	8.16	1.39	1.34
25	BB	2274	A	N3-C4	8.16	1.39	1.34
25	BB	1216	G	C8-N7	8.16	1.35	1.30
25	BB	1533	C	C5-C6	8.16	1.40	1.34
25	BB	2314	A	C4'-O4'	-8.16	1.34	1.45
3	A1	1013	G	P-O5'	8.15	1.68	1.59
25	BB	189	G	N9-C8	-8.15	1.32	1.37
25	BB	1611	C	N1-C6	8.15	1.42	1.37
25	BB	2893	A	N9-C4	8.15	1.42	1.37
3	A1	1404	C	C5'-C4'	8.15	1.61	1.51
25	BB	841	G	N1-C2	-8.15	1.31	1.37
25	BB	2324	U	P-O5'	8.15	1.68	1.59
3	A1	256	U	N3-C4	-8.15	1.31	1.38
3	A1	572	A	C6-N6	-8.15	1.27	1.33
3	A1	717	U	N1-C6	8.15	1.45	1.38
3	A1	1174	G	C6-N1	-8.15	1.33	1.39
25	BB	1232	G	C2-N2	-8.15	1.26	1.34
25	BB	1655	A	N9-C8	8.15	1.44	1.37
3	A1	1099	G	N1-C2	-8.15	1.31	1.37
25	BB	52	A	N7-C5	8.15	1.44	1.39
25	BB	1608	A	C3'-C2'	8.15	1.61	1.52
25	BB	2009	A	N9-C4	8.15	1.42	1.37
25	BB	2305	U	N1-C2	8.15	1.45	1.38
25	BB	2426	A	C8-N7	8.15	1.37	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	862	C	C2'-O2'	8.14	1.52	1.41
3	A1	80	A	N3-C4	8.14	1.39	1.34
3	A1	681	A	N7-C5	8.14	1.44	1.39
3	A1	1151	A	N7-C5	8.14	1.44	1.39
3	A1	56	U	C3'-C2'	8.14	1.61	1.52
3	A1	1225	A	C6-N1	-8.14	1.29	1.35
3	A1	1260	G	C5-C4	8.14	1.44	1.38
25	BB	354	A	P-O5'	-8.14	1.51	1.59
25	BB	604	G	C2-N2	-8.14	1.26	1.34
25	BB	1808	A	C5'-C4'	8.14	1.61	1.51
25	BB	2470	G	C2-N2	-8.14	1.26	1.34
25	BB	2554	U	P-O5'	-8.14	1.51	1.59
25	BB	2654	A	N3-C4	8.14	1.39	1.34
29	BF	40	ARG	CZ-NH1	-8.14	1.22	1.33
3	A1	711	G	C6-N1	-8.14	1.33	1.39
24	BA	52	A	O3'-P	-8.14	1.51	1.61
25	BB	2417	C	N3-C4	-8.14	1.28	1.33
3	A1	664	G	C5-C6	8.13	1.50	1.42
25	BB	1171	G	N3-C4	8.13	1.41	1.35
25	BB	1874	C	C4-C5	-8.14	1.36	1.43
25	BB	927	A	C6-N6	-8.13	1.27	1.33
25	BB	1031	G	N9-C8	8.13	1.43	1.37
3	A1	469	C	N1-C6	8.13	1.42	1.37
3	A1	1220	G	N9-C8	-8.13	1.32	1.37
24	BA	105	G	P-O5'	8.13	1.67	1.59
25	BB	335	C	C4-N4	-8.13	1.26	1.33
25	BB	2800	A	N3-C4	8.13	1.39	1.34
25	BB	535	G	N7-C5	8.13	1.44	1.39
25	BB	1289	C	O3'-P	-8.13	1.51	1.61
25	BB	1404	C	N3-C4	-8.13	1.28	1.33
25	BB	2625	G	N7-C5	8.13	1.44	1.39
3	A1	860	A	N1-C2	-8.13	1.27	1.34
3	A1	1419	G	C4'-C3'	8.13	1.62	1.53
25	BB	953	G	C8-N7	-8.13	1.26	1.30
25	BB	1651	G	O3'-P	-8.13	1.51	1.61
3	A1	941	G	C5-C4	-8.12	1.32	1.38
25	BB	613	A	C6-N1	-8.12	1.29	1.35
25	BB	1632	A	N7-C5	8.12	1.44	1.39
25	BB	1476	U	N1-C2	8.12	1.45	1.38
1	AP	73	A	P-O5'	8.12	1.67	1.59
25	BB	1169	A	N3-C4	8.12	1.39	1.34
25	BB	1386	C	C4'-O4'	-8.12	1.34	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1942	C	C4-N4	-8.12	1.26	1.33
25	BB	2132	U	C5'-C4'	8.12	1.61	1.51
24	BA	44	G	N1-C2	-8.12	1.31	1.37
25	BB	138	U	P-O5'	8.12	1.67	1.59
25	BB	246	C	C4-N4	-8.11	1.26	1.33
25	BB	361	G	C2-N2	-8.11	1.26	1.34
3	A1	316	C	C5'-C4'	8.11	1.61	1.51
24	BA	14	U	C4-C5	8.11	1.50	1.43
25	BB	2518	A	N3-C4	8.11	1.39	1.34
25	BB	2590	A	C6-N1	-8.11	1.29	1.35
3	A1	647	C	N1-C6	8.11	1.42	1.37
3	A1	1481	U	O3'-P	-8.11	1.51	1.61
25	BB	570	G	C2'-C1'	-8.11	1.44	1.53
3	A1	115	G	N7-C5	8.11	1.44	1.39
3	A1	701	U	C4-C5	8.11	1.50	1.43
3	A1	232	G	C5-C6	8.10	1.50	1.42
25	BB	1470	A	C5-C4	-8.10	1.33	1.38
25	BB	1816	C	N1-C6	8.10	1.42	1.37
3	A1	11	G	C2-N3	8.10	1.39	1.32
3	A1	419	C	C4-N4	-8.10	1.26	1.33
25	BB	1250	G	C2'-C1'	-8.10	1.44	1.53
25	BB	1593	A	O3'-P	-8.10	1.51	1.61
25	BB	1610	A	C6-N1	-8.10	1.29	1.35
25	BB	2269	G	O3'-P	-8.10	1.51	1.61
3	A1	454	G	P-O5'	8.10	1.67	1.59
3	A1	876	C	C4'-O4'	-8.10	1.35	1.45
25	BB	773	U	C5-C6	8.10	1.41	1.34
1	AE	36	A	O3'-P	-8.10	1.51	1.61
3	A1	1371	G	N1-C2	-8.10	1.31	1.37
25	BB	853	C	N1-C6	-8.10	1.32	1.37
25	BB	1355	G	N7-C5	8.10	1.44	1.39
25	BB	1705	A	N3-C4	8.10	1.39	1.34
25	BB	77	G	C2-N3	8.09	1.39	1.32
25	BB	155	A	C4'-C3'	8.09	1.62	1.53
25	BB	159	G	N3-C4	8.09	1.41	1.35
3	A1	1429	A	C5'-C4'	8.09	1.61	1.51
25	BB	163	C	C4-N4	-8.09	1.26	1.33
25	BB	625	G	N7-C5	-8.09	1.34	1.39
25	BB	2015	A	C6-N1	-8.09	1.29	1.35
25	BB	2368	C	N3-C4	-8.09	1.28	1.33
25	BB	2530	A	C8-N7	8.09	1.37	1.31
25	BB	2750	A	N9-C4	8.09	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	266	G	N3-C4	8.09	1.41	1.35
24	BA	118	C	C2-O2	-8.09	1.17	1.24
1	AP	40	C	C4-N4	-8.09	1.26	1.33
3	A1	153	C	P-O5'	-8.09	1.51	1.59
3	A1	1423	G	C6-N1	-8.09	1.33	1.39
25	BB	1373	A	N3-C4	8.09	1.39	1.34
3	A1	331	G	C8-N7	-8.08	1.26	1.30
3	A1	396	C	N1-C6	8.08	1.42	1.37
3	A1	1147	C	N3-C4	-8.08	1.28	1.33
25	BB	2107	G	N1-C2	-8.08	1.31	1.37
3	A1	947	G	C2-N2	-8.08	1.26	1.34
25	BB	1850	G	C3'-C2'	8.08	1.61	1.52
50	B1	114	ARG	CZ-NH2	-8.08	1.22	1.33
3	A1	1194	U	P-O5'	8.08	1.67	1.59
25	BB	391	A	N1-C2	8.08	1.41	1.34
25	BB	469	G	C8-N7	8.08	1.35	1.30
3	A1	1410	A	P-O5'	8.08	1.67	1.59
25	BB	657	U	C3'-C2'	8.08	1.61	1.52
25	BB	953	G	N3-C4	8.08	1.41	1.35
25	BB	2645	G	C2-N2	-8.08	1.26	1.34
25	BB	770	G	C6-N1	-8.08	1.33	1.39
25	BB	988	A	N1-C2	-8.08	1.27	1.34
3	A1	354	G	C6-N1	-8.07	1.33	1.39
24	BA	55	U	C5-C6	8.07	1.41	1.34
25	BB	797	G	C6-N1	-8.07	1.33	1.39
25	BB	2638	G	C2-N2	-8.07	1.26	1.34
3	A1	7	A	P-O5'	-8.07	1.51	1.59
3	A1	66	A	O3'-P	-8.07	1.51	1.61
3	A1	695	A	P-O5'	8.07	1.67	1.59
3	A1	1433	A	N7-C5	8.07	1.44	1.39
25	BB	581	C	C5'-C4'	8.07	1.61	1.51
25	BB	706	A	P-O5'	8.07	1.67	1.59
25	BB	1151	A	N1-C2	-8.07	1.27	1.34
25	BB	1874	C	C4-N4	-8.07	1.26	1.33
25	BB	2393	U	C3'-C2'	8.07	1.61	1.52
3	A1	179	A	C6-N1	-8.07	1.29	1.35
24	BA	23	G	C2-N2	-8.07	1.26	1.34
25	BB	507	A	O3'-P	-8.07	1.51	1.61
25	BB	672	C	P-O5'	-8.07	1.51	1.59
25	BB	2311	A	C5-C4	-8.07	1.33	1.38
25	BB	331	C	C4-N4	-8.06	1.26	1.33
25	BB	1213	A	N7-C5	8.06	1.44	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2894	G	N3-C4	8.06	1.41	1.35
3	A1	1345	U	P-O5'	8.06	1.67	1.59
25	BB	1952	A	N1-C2	-8.06	1.27	1.34
25	BB	2059	A	C6-N1	-8.06	1.29	1.35
3	A1	40	C	C5-C6	8.06	1.40	1.34
3	A1	174	A	N7-C5	8.06	1.44	1.39
25	BB	1402	U	C4-O4	-8.06	1.17	1.23
25	BB	1456	G	C5'-C4'	8.06	1.61	1.51
25	BB	2295	C	C4-C5	-8.06	1.36	1.43
25	BB	2396	G	N9-C8	8.06	1.43	1.37
25	BB	2252	G	N9-C8	8.06	1.43	1.37
25	BB	2671	G	C2-N2	-8.06	1.26	1.34
25	BB	1867	G	N7-C5	-8.06	1.34	1.39
25	BB	1912	A	N7-C5	8.06	1.44	1.39
25	BB	743	A	N7-C5	8.06	1.44	1.39
25	BB	763	G	C8-N7	8.06	1.35	1.30
25	BB	2258	C	N3-C4	-8.06	1.28	1.33
3	A1	211	G	N7-C5	8.05	1.44	1.39
25	BB	558	U	O3'-P	-8.05	1.51	1.61
3	A1	1422	G	C5-C6	8.05	1.50	1.42
25	BB	1122	G	N7-C5	8.05	1.44	1.39
3	A1	480	U	N1-C2	8.05	1.45	1.38
25	BB	21	A	C5'-C4'	8.05	1.61	1.51
25	BB	1206	G	N7-C5	-8.05	1.34	1.39
25	BB	1535	A	N9-C4	8.05	1.42	1.37
3	A1	820	U	C5-C6	8.05	1.41	1.34
3	A1	988	G	P-O5'	8.05	1.67	1.59
25	BB	845	A	N7-C5	8.05	1.44	1.39
3	A1	1041	G	N3-C4	8.05	1.41	1.35
3	A1	1047	G	O3'-P	-8.05	1.51	1.61
25	BB	405	U	C2'-C1'	-8.04	1.44	1.53
25	BB	725	G	C2-N2	-8.04	1.26	1.34
3	A1	588	G	C8-N7	8.04	1.35	1.30
25	BB	1425	G	N1-C2	-8.04	1.31	1.37
3	A1	7	A	C8-N7	8.04	1.37	1.31
3	A1	704	A	N7-C5	8.04	1.44	1.39
1	AE	64	A	C6-N1	-8.04	1.29	1.35
3	A1	1525	G	C8-N7	8.04	1.35	1.30
25	BB	1279	G	C5-C6	8.04	1.50	1.42
25	BB	2470	G	N1-C2	-8.04	1.31	1.37
25	BB	2653	U	C3'-C2'	8.04	1.61	1.52
3	A1	33	A	C5-C4	-8.04	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	141	G	C2-N2	-8.04	1.26	1.34
3	A1	963	G	N1-C2	-8.04	1.31	1.37
3	A1	475	C	C4-N4	-8.03	1.26	1.33
3	A1	1134	G	N1-C2	-8.04	1.31	1.37
25	BB	36	G	N1-C2	-8.04	1.31	1.37
25	BB	814	C	C4-N4	-8.04	1.26	1.33
25	BB	1146	C	C4-N4	-8.04	1.26	1.33
25	BB	1142	A	N1-C2	-8.03	1.27	1.34
3	A1	693	G	C8-N7	-8.03	1.26	1.30
25	BB	1627	G	C2-N2	-8.03	1.26	1.34
25	BB	1934	C	N1-C6	8.03	1.42	1.37
25	BB	20	C	N3-C4	-8.03	1.28	1.33
25	BB	1113	U	C5-C6	8.03	1.41	1.34
25	BB	877	A	C6-N1	-8.03	1.29	1.35
25	BB	1221	C	C2'-C1'	8.03	1.62	1.53
25	BB	1237	A	C4'-C3'	8.03	1.61	1.53
25	BB	1397	U	C2-N3	8.03	1.43	1.37
25	BB	2425	A	N7-C5	8.03	1.44	1.39
25	BB	2595	G	C8-N7	-8.03	1.26	1.30
25	BB	11	C	C4-N4	-8.02	1.26	1.33
25	BB	1239	G	C6-N1	-8.02	1.33	1.39
25	BB	1283	G	N1-C2	-8.02	1.31	1.37
25	BB	1617	C	N3-C4	-8.02	1.28	1.33
25	BB	2391	G	C5-C6	8.02	1.50	1.42
25	BB	494	G	N7-C5	8.02	1.44	1.39
25	BB	673	C	O4'-C1'	8.02	1.52	1.41
25	BB	1171	G	N1-C2	-8.02	1.31	1.37
25	BB	1910	G	P-O5'	8.02	1.67	1.59
25	BB	2688	G	N3-C4	8.02	1.41	1.35
3	A1	1000	A	C6-N6	-8.02	1.27	1.33
25	BB	1623	G	C2-N2	-8.02	1.26	1.34
25	BB	974	G	C2-N2	-8.02	1.26	1.34
25	BB	2682	A	N3-C4	8.02	1.39	1.34
25	BB	2747	G	C5-C4	-8.02	1.32	1.38
3	A1	201	G	N1-C2	-8.01	1.31	1.37
3	A1	860	A	N3-C4	8.01	1.39	1.34
25	BB	911	A	N1-C2	-8.01	1.27	1.34
25	BB	279	A	N3-C4	8.01	1.39	1.34
32	BI	71	ARG	CZ-NH1	-8.01	1.22	1.33
25	BB	2467	C	C4-N4	-8.01	1.26	1.33
1	AA	19	G	C2-N2	-8.01	1.26	1.34
3	A1	69	G	C6-N1	-8.01	1.33	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1179	A	N3-C4	8.01	1.39	1.34
3	A1	1195	C	C4-N4	-8.01	1.26	1.33
3	A1	472	U	O3'-P	-8.01	1.51	1.61
3	A1	1021	A	N1-C2	-8.01	1.27	1.34
3	A1	1216	A	C6-N1	-8.01	1.29	1.35
3	A1	759	A	C5-C4	-8.00	1.33	1.38
3	A1	1130	A	N7-C5	8.00	1.44	1.39
25	BB	704	G	N7-C5	8.00	1.44	1.39
3	A1	971	G	C8-N7	-8.00	1.26	1.30
3	A1	1101	A	C6-N6	-8.00	1.27	1.33
25	BB	1066	U	N3-C4	-8.00	1.31	1.38
25	BB	1311	G	N7-C5	8.00	1.44	1.39
25	BB	1532	A	N9-C8	8.00	1.44	1.37
25	BB	1725	U	C2-N3	-8.00	1.32	1.37
25	BB	2118	U	N3-C4	-8.00	1.31	1.38
25	BB	2357	G	N3-C4	8.00	1.41	1.35
3	A1	671	G	C3'-C2'	8.00	1.61	1.52
3	A1	1489	G	C6-N1	-8.00	1.33	1.39
25	BB	197	A	C4'-O4'	-8.00	1.35	1.45
25	BB	1103	A	N3-C4	8.00	1.39	1.34
25	BB	1620	G	C8-N7	8.00	1.35	1.30
1	AA	35	A	N9-C4	8.00	1.42	1.37
1	AP	9	A	C2-N3	-8.00	1.26	1.33
3	A1	1436	U	C5'-C4'	8.00	1.60	1.51
3	A1	50	A	N9-C4	7.99	1.42	1.37
25	BB	142	A	C5-C4	-7.99	1.33	1.38
25	BB	1606	C	N3-C4	-7.99	1.28	1.33
3	A1	1305	G	N3-C4	7.99	1.41	1.35
3	A1	1416	G	O4'-C1'	7.99	1.52	1.41
25	BB	115	C	C4-C5	-7.99	1.36	1.43
25	BB	140	C	C4-N4	-7.99	1.26	1.33
25	BB	722	A	N9-C8	7.99	1.44	1.37
25	BB	2266	A	C6-N1	-7.99	1.29	1.35
25	BB	2677	G	C6-N1	-7.99	1.33	1.39
25	BB	2663	G	N9-C4	-7.99	1.31	1.38
25	BB	2785	C	C4-N4	-7.99	1.26	1.33
3	A1	652	U	C4-O4	-7.99	1.17	1.23
25	BB	2520	C	N1-C6	7.99	1.42	1.37
3	A1	433	G	N9-C8	-7.99	1.32	1.37
25	BB	1543	G	O3'-P	-7.99	1.51	1.61
25	BB	1911	U	P-O5'	7.99	1.67	1.59
25	BB	2343	U	C3'-C2'	7.99	1.61	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1560	G	N3-C4	7.98	1.41	1.35
3	A1	1303	C	C4-N4	-7.98	1.26	1.33
25	BB	2381	A	C5-C4	-7.98	1.33	1.38
3	A1	262	A	N3-C4	7.98	1.39	1.34
25	BB	2042	A	N1-C2	-7.98	1.27	1.34
25	BB	792	A	N3-C4	7.98	1.39	1.34
3	A1	1316	G	N1-C2	-7.98	1.31	1.37
25	BB	535	G	C2-N2	-7.98	1.26	1.34
1	AA	1	G	C2-N2	-7.98	1.26	1.34
25	BB	1421	G	C5-C6	7.98	1.50	1.42
3	A1	575	G	C6-N1	-7.97	1.33	1.39
3	A1	1184	G	N1-C2	-7.97	1.31	1.37
25	BB	1297	C	C2'-O2'	7.97	1.52	1.41
1	AP	24	G	N9-C8	7.97	1.43	1.37
1	AE	7	U	O3'-P	-7.97	1.51	1.61
25	BB	1417	C	C4'-O4'	-7.97	1.35	1.45
25	BB	1861	G	N1-C2	-7.97	1.31	1.37
25	BB	2835	A	O3'-P	-7.97	1.51	1.61
25	BB	409	G	N7-C5	7.97	1.44	1.39
25	BB	1373	A	C4'-C3'	7.97	1.61	1.53
25	BB	1756	G	C6-O6	-7.97	1.17	1.24
3	A1	354	G	C6-O6	-7.97	1.17	1.24
3	A1	852	G	C3'-C2'	-7.97	1.44	1.52
1	AA	43	G	O3'-P	-7.97	1.51	1.61
3	A1	1385	G	C2-N2	-7.97	1.26	1.34
25	BB	161	A	C3'-C2'	7.97	1.61	1.52
25	BB	1008	A	N3-C4	7.97	1.39	1.34
25	BB	2558	C	C5'-C4'	-7.97	1.41	1.51
3	A1	279	A	N9-C4	7.96	1.42	1.37
3	A1	816	A	N3-C4	-7.96	1.30	1.34
20	AU	52	ARG	CZ-NH1	-7.96	1.22	1.33
25	BB	204	A	P-O5'	-7.96	1.51	1.59
25	BB	2780	G	C6-N1	-7.96	1.33	1.39
25	BB	2851	A	N3-C4	7.96	1.39	1.34
25	BB	920	A	C3'-C2'	7.96	1.61	1.52
25	BB	1099	G	C2'-C1'	7.96	1.62	1.53
3	A1	314	C	N1-C2	7.96	1.48	1.40
7	AF	69	ARG	CZ-NH1	-7.96	1.22	1.33
25	BB	331	C	N3-C4	-7.96	1.28	1.33
25	BB	2319	G	C5'-C4'	7.96	1.60	1.51
3	A1	1519	A	N7-C5	7.96	1.44	1.39
25	BB	2433	A	N7-C5	7.96	1.44	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2436	G	N7-C5	7.96	1.44	1.39
25	BB	2694	G	N1-C2	-7.96	1.31	1.37
25	BB	15	G	C8-N7	-7.96	1.26	1.30
3	A1	68	G	P-O5'	7.95	1.67	1.59
25	BB	84	A	C5'-C4'	7.95	1.60	1.51
1	AA	75	C	C3'-C2'	7.95	1.61	1.52
1	AE	60	C	N3-C4	-7.95	1.28	1.33
3	A1	1498	U	P-O5'	7.95	1.67	1.59
25	BB	772	C	C5-C6	7.95	1.40	1.34
25	BB	1129	A	N9-C4	7.95	1.42	1.37
25	BB	1450	G	N1-C2	-7.95	1.31	1.37
3	A1	173	U	C4'-O4'	-7.95	1.35	1.45
3	A1	220	G	C8-N7	-7.95	1.26	1.30
3	A1	951	G	C6-N1	-7.95	1.33	1.39
25	BB	2149	U	C5'-C4'	7.95	1.60	1.51
25	BB	2521	C	C4-N4	-7.95	1.26	1.33
25	BB	1045	C	C2-N3	-7.95	1.29	1.35
1	AE	34	G	C8-N7	7.95	1.35	1.30
3	A1	632	U	P-O5'	7.95	1.67	1.59
3	A1	805	C	C2-O2	-7.95	1.17	1.24
25	BB	222	A	C6-N6	-7.95	1.27	1.33
25	BB	923	G	N9-C4	-7.95	1.31	1.38
25	BB	2006	C	N1-C6	7.95	1.42	1.37
25	BB	2058	A	C6-N1	-7.95	1.29	1.35
3	A1	582	C	C4-C5	-7.94	1.36	1.43
3	A1	725	G	C2-N2	-7.94	1.26	1.34
3	A1	1361	G	C2-N2	-7.94	1.26	1.34
3	A1	1409	C	C4-N4	-7.94	1.26	1.33
25	BB	2141	G	O4'-C1'	7.94	1.51	1.41
3	A1	661	G	N3-C4	7.94	1.41	1.35
24	BA	14	U	O4'-C1'	7.94	1.51	1.41
25	BB	2082	A	C6-N6	-7.94	1.27	1.33
3	A1	835	U	C2-N3	-7.94	1.32	1.37
25	BB	2157	G	N1-C2	-7.94	1.31	1.37
3	A1	694	A	N9-C4	-7.94	1.33	1.37
3	A1	929	G	C2-N2	-7.94	1.26	1.34
3	A1	934	C	N3-C4	-7.94	1.28	1.33
25	BB	939	G	N3-C4	7.94	1.41	1.35
3	A1	1392	G	N7-C5	7.93	1.44	1.39
3	A1	1094	G	N3-C4	7.93	1.41	1.35
3	A1	1275	A	C5'-C4'	7.93	1.60	1.51
25	BB	591	U	P-O5'	7.93	1.67	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	904	G	P-O5'	7.93	1.67	1.59
25	BB	2875	C	N3-C4	-7.93	1.28	1.33
2	AM	13	U	C5'-C4'	7.93	1.60	1.51
25	BB	1436	G	C2-N2	-7.93	1.26	1.34
25	BB	1979	U	C2-N3	-7.93	1.32	1.37
3	A1	790	A	N9-C4	-7.93	1.33	1.37
4	AB	154	GLY	N-CA	7.93	1.57	1.46
25	BB	2239	G	O3'-P	-7.93	1.51	1.61
3	A1	1262	C	C3'-C2'	7.92	1.61	1.52
21	AV	127	TYR	CE2-CZ	7.92	1.48	1.38
25	BB	1642	G	N3-C4	7.92	1.41	1.35
25	BB	2056	G	N7-C5	7.92	1.44	1.39
25	BB	2315	G	N7-C5	7.92	1.44	1.39
3	A1	1513	A	C5-C6	7.92	1.48	1.41
25	BB	1959	G	C2-N3	7.92	1.39	1.32
25	BB	2495	G	C5-C6	7.92	1.50	1.42
3	A1	1153	G	C5'-C4'	7.92	1.60	1.51
25	BB	2024	G	C6-O6	7.92	1.31	1.24
3	A1	75	G	N1-C2	-7.92	1.31	1.37
3	A1	832	G	O3'-P	-7.92	1.51	1.61
25	BB	184	C	P-O5'	7.92	1.67	1.59
25	BB	1043	C	N1-C2	7.92	1.48	1.40
31	BH	33	ARG	CZ-NH2	-7.92	1.22	1.33
3	A1	253	A	N3-C4	7.92	1.39	1.34
3	A1	816	A	N7-C5	7.92	1.44	1.39
25	BB	14	A	P-O5'	-7.91	1.51	1.59
25	BB	1930	G	O3'-P	-7.91	1.51	1.61
25	BB	2371	G	C6-N1	-7.91	1.34	1.39
25	BB	2396	G	C4'-C3'	-7.91	1.44	1.53
25	BB	2765	A	C4'-C3'	7.91	1.61	1.53
3	A1	115	G	N3-C4	7.91	1.41	1.35
3	A1	230	G	C2-N2	-7.91	1.26	1.34
3	A1	857	C	N3-C4	-7.91	1.28	1.33
25	BB	607	U	O3'-P	-7.91	1.51	1.61
25	BB	883	G	C8-N7	-7.91	1.26	1.30
25	BB	1766	G	N3-C4	7.91	1.41	1.35
25	BB	1815	A	N3-C4	7.91	1.39	1.34
1	AP	50	U	O3'-P	-7.91	1.51	1.61
25	BB	2397	G	C2-N2	-7.91	1.26	1.34
25	BB	375	G	N3-C4	7.91	1.41	1.35
25	BB	1216	G	N7-C5	7.91	1.44	1.39
3	A1	449	G	C2-N2	-7.91	1.26	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	673	C	P-O5'	-7.91	1.51	1.59
25	BB	1774	C	C4-N4	-7.91	1.26	1.33
25	BB	2014	A	N9-C8	-7.91	1.31	1.37
25	BB	2631	G	C2-N2	-7.91	1.26	1.34
25	BB	2644	G	N1-C2	-7.91	1.31	1.37
3	A1	496	A	N7-C5	7.90	1.44	1.39
3	A1	1482	G	C4'-C3'	7.90	1.61	1.53
25	BB	10	A	N7-C5	7.90	1.44	1.39
25	BB	1155	A	C6-N1	-7.90	1.30	1.35
25	BB	2246	G	C5-C6	7.90	1.50	1.42
3	A1	822	U	C2-O2	7.90	1.29	1.22
3	A1	1102	A	N9-C4	7.90	1.42	1.37
24	BA	66	A	N9-C4	7.90	1.42	1.37
25	BB	233	A	C6-N1	-7.90	1.30	1.35
25	BB	388	G	N1-C2	-7.90	1.31	1.37
25	BB	722	A	C6-N6	-7.90	1.27	1.33
3	A1	46	G	C2-N2	-7.90	1.26	1.34
3	A1	374	A	N3-C4	7.90	1.39	1.34
25	BB	2362	C	C3'-C2'	7.90	1.61	1.52
3	A1	532	A	C6-N1	-7.90	1.30	1.35
25	BB	556	A	N7-C5	-7.90	1.34	1.39
34	BK	13	ARG	CZ-NH2	-7.90	1.22	1.33
3	A1	131	A	N9-C8	7.90	1.44	1.37
25	BB	1674	G	C2-N2	-7.90	1.26	1.34
25	BB	2179	C	P-O5'	7.90	1.67	1.59
3	A1	1159	U	C3'-C2'	7.89	1.61	1.52
25	BB	604	G	O4'-C1'	7.89	1.51	1.41
3	A1	722	G	C8-N7	7.89	1.35	1.30
25	BB	1468	U	C2'-C1'	7.89	1.62	1.53
25	BB	2891	U	C5'-C4'	7.89	1.60	1.51
3	A1	242	G	C5-C6	7.89	1.50	1.42
25	BB	423	A	C6-N6	-7.89	1.27	1.33
25	BB	1707	G	N3-C4	7.89	1.41	1.35
3	A1	587	G	C2-N2	-7.89	1.26	1.34
3	A1	1407	C	C4-N4	-7.89	1.26	1.33
25	BB	450	G	C6-N1	7.89	1.45	1.39
25	BB	1308	A	N7-C5	7.89	1.44	1.39
25	BB	2313	C	C4-N4	-7.89	1.26	1.33
25	BB	2895	G	C8-N7	-7.89	1.26	1.30
3	A1	457	G	N7-C5	7.89	1.44	1.39
25	BB	30	G	N9-C4	7.89	1.44	1.38
25	BB	1303	G	N9-C4	7.89	1.44	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1706	C	P-O5'	-7.89	1.51	1.59
3	A1	902	G	C6-N1	-7.88	1.34	1.39
25	BB	532	A	N7-C5	7.88	1.44	1.39
25	BB	1435	G	C2-N2	-7.88	1.26	1.34
25	BB	2823	A	N9-C8	7.88	1.44	1.37
25	BB	692	C	C4-N4	-7.88	1.26	1.33
3	A1	321	A	C6-N1	-7.88	1.30	1.35
3	A1	1191	A	C4'-O4'	-7.88	1.35	1.45
25	BB	1155	A	C6-N6	-7.88	1.27	1.33
25	BB	2229	U	C2-N3	7.88	1.43	1.37
3	A1	201	G	O3'-P	-7.88	1.51	1.61
3	A1	410	G	C8-N7	-7.88	1.26	1.30
25	BB	774	G	C5'-C4'	7.88	1.60	1.51
25	BB	1020	A	C6-N1	-7.88	1.30	1.35
1	AA	19	G	C6-N1	-7.88	1.34	1.39
1	AP	35	A	C5'-C4'	7.88	1.60	1.51
1	AE	16	U	N3-C4	-7.88	1.31	1.38
25	BB	855	G	N9-C8	7.88	1.43	1.37
25	BB	1411	U	O3'-P	-7.88	1.51	1.61
25	BB	2042	A	C4'-C3'	7.88	1.61	1.53
3	A1	1409	C	N1-C6	7.88	1.41	1.37
25	BB	823	C	C2'-C1'	7.87	1.62	1.53
25	BB	145	C	C4-N4	-7.87	1.26	1.33
25	BB	207	A	O3'-P	-7.87	1.51	1.61
25	BB	1913	A	C6-N1	-7.87	1.30	1.35
3	A1	438	U	C2-O2	7.87	1.29	1.22
3	A1	322	C	C5-C6	7.87	1.40	1.34
25	BB	1679	A	C5-C6	7.87	1.48	1.41
25	BB	1778	U	C2'-C1'	7.87	1.62	1.53
25	BB	2237	G	C5-C4	-7.87	1.32	1.38
25	BB	2771	C	N3-C4	7.87	1.39	1.33
3	A1	1032	G	C5'-C4'	7.87	1.60	1.51
25	BB	2551	C	C4-N4	-7.87	1.26	1.33
25	BB	2147	A	C5'-C4'	7.87	1.60	1.51
25	BB	300	A	N3-C4	7.86	1.39	1.34
25	BB	476	G	N7-C5	7.86	1.44	1.39
25	BB	260	G	C8-N7	-7.86	1.26	1.30
25	BB	2451	A	C5-C4	-7.86	1.33	1.38
25	BB	1896	G	C3'-C2'	7.86	1.61	1.52
25	BB	2054	A	C5'-C4'	7.86	1.60	1.51
25	BB	2619	C	C5'-C4'	7.86	1.60	1.51
3	A1	899	C	N3-C4	-7.86	1.28	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1411	C	C4-N4	-7.86	1.26	1.33
25	BB	808	G	N9-C8	7.86	1.43	1.37
25	BB	993	G	N7-C5	7.86	1.44	1.39
15	AO	168	ARG	CZ-NH2	-7.86	1.22	1.33
25	BB	536	G	P-O5'	7.86	1.67	1.59
25	BB	1511	G	C5-C6	7.86	1.50	1.42
25	BB	2174	C	C4-N4	-7.86	1.26	1.33
25	BB	2269	G	C2-N2	-7.86	1.26	1.34
3	A1	659	U	C4-O4	-7.86	1.17	1.23
25	BB	510	C	O4'-C1'	7.86	1.51	1.41
25	BB	1262	A	N9-C4	-7.86	1.33	1.37
25	BB	2125	G	N1-C2	-7.86	1.31	1.37
3	A1	1139	G	N9-C8	-7.85	1.32	1.37
25	BB	2661	G	O3'-P	-7.85	1.51	1.61
1	AA	8	U	C4-O4	-7.85	1.17	1.23
25	BB	1282	U	C2-N3	7.85	1.43	1.37
1	AE	31	A	P-O5'	-7.85	1.51	1.59
25	BB	940	G	C3'-C2'	7.85	1.61	1.52
25	BB	232	G	N9-C4	7.85	1.44	1.38
25	BB	2256	G	C5-C4	7.85	1.43	1.38
25	BB	2635	A	C6-N1	-7.85	1.30	1.35
3	A1	568	G	C2-N3	-7.85	1.26	1.32
25	BB	660	C	P-O5'	-7.85	1.51	1.59
3	A1	1048	G	N9-C8	7.85	1.43	1.37
3	A1	1175	G	N9-C4	-7.85	1.31	1.38
25	BB	1233	C	N3-C4	-7.85	1.28	1.33
3	A1	1292	G	C5'-C4'	7.84	1.60	1.51
25	BB	549	G	C2-N2	-7.84	1.26	1.34
25	BB	2027	G	C2-N2	-7.84	1.26	1.34
3	A1	939	G	C4'-O4'	-7.84	1.35	1.45
24	BA	60	C	C4-N4	-7.84	1.26	1.33
25	BB	136	G	N1-C2	-7.84	1.31	1.37
25	BB	1632	A	C6-N6	-7.84	1.27	1.33
3	A1	765	G	C4'-C3'	7.84	1.61	1.53
25	BB	545	U	P-O5'	7.84	1.67	1.59
25	BB	2685	G	C4'-C3'	7.84	1.61	1.53
25	BB	697	G	N9-C8	7.84	1.43	1.37
25	BB	1042	G	C6-N1	-7.84	1.34	1.39
25	BB	1553	A	C6-N1	-7.84	1.30	1.35
25	BB	135	U	N3-C4	-7.84	1.31	1.38
25	BB	289	G	C4'-C3'	7.84	1.61	1.53
3	A1	360	G	N3-C4	7.83	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1491	G	C6-N1	-7.83	1.34	1.39
1	AE	25	C	C4-N4	-7.83	1.26	1.33
25	BB	1575	C	C4-N4	-7.83	1.26	1.33
25	BB	2427	C	P-O5'	-7.83	1.51	1.59
25	BB	1528	A	N3-C4	7.83	1.39	1.34
25	BB	1607	C	N3-C4	-7.83	1.28	1.33
25	BB	2042	A	C8-N7	-7.83	1.26	1.31
25	BB	2685	G	C8-N7	7.83	1.35	1.30
25	BB	1707	G	C2-N2	-7.83	1.26	1.34
3	A1	1188	A	C6-N1	-7.83	1.30	1.35
25	BB	1623	G	N9-C8	-7.83	1.32	1.37
25	BB	2073	C	C4-N4	-7.83	1.26	1.33
25	BB	1548	A	C6-N6	-7.83	1.27	1.33
25	BB	1204	A	N9-C4	7.83	1.42	1.37
25	BB	2435	A	C5'-C4'	7.83	1.60	1.51
3	A1	185	U	C4'-C3'	-7.82	1.44	1.53
3	A1	637	C	C2-N3	-7.82	1.29	1.35
3	A1	504	C	C2-N3	-7.82	1.29	1.35
3	A1	694	A	C6-N6	-7.82	1.27	1.33
3	A1	818	G	C2-N2	-7.82	1.26	1.34
3	A1	408	A	N7-C5	7.82	1.44	1.39
3	A1	1241	G	C5-C6	7.82	1.50	1.42
25	BB	406	G	C5-C4	-7.82	1.32	1.38
25	BB	1598	A	P-O5'	7.82	1.67	1.59
1	AE	51	G	P-O5'	-7.82	1.51	1.59
3	A1	374	A	O3'-P	-7.82	1.51	1.61
24	BA	108	A	N3-C4	7.82	1.39	1.34
25	BB	2274	A	C5'-C4'	7.82	1.60	1.51
25	BB	2697	G	N1-C2	-7.82	1.31	1.37
1	AA	11	C	C4-N4	-7.82	1.26	1.33
3	A1	1339	A	C5-C4	-7.82	1.33	1.38
25	BB	1367	A	N9-C8	7.82	1.44	1.37
25	BB	2221	G	C2-N2	-7.81	1.26	1.34
3	A1	388	G	N1-C2	-7.81	1.31	1.37
3	A1	1509	C	O3'-P	-7.81	1.51	1.61
25	BB	1519	G	C2-N3	-7.81	1.26	1.32
3	A1	89	U	P-O5'	7.81	1.67	1.59
3	A1	1378	C	P-O5'	-7.81	1.51	1.59
25	BB	311	A	C6-N1	-7.81	1.30	1.35
25	BB	1509	A	N7-C5	7.81	1.44	1.39
25	BB	2729	G	C5-C4	7.81	1.43	1.38
1	AA	62	A	C8-N7	-7.81	1.26	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1136	G	N9-C8	-7.81	1.32	1.37
3	A1	658	C	N3-C4	-7.80	1.28	1.33
25	BB	2422	C	N3-C4	-7.80	1.28	1.33
3	A1	8	A	C4'-C3'	7.80	1.61	1.53
25	BB	527	C	C4-N4	-7.80	1.26	1.33
3	A1	23	C	N3-C4	-7.80	1.28	1.33
25	BB	1747	U	C5'-C4'	7.80	1.60	1.51
25	BB	2077	A	N1-C2	-7.80	1.27	1.34
1	AP	35	A	N3-C4	7.80	1.39	1.34
3	A1	146	G	N9-C8	7.80	1.43	1.37
3	A1	1402	C	C5'-C4'	7.80	1.60	1.51
25	BB	2076	U	N3-C4	-7.80	1.31	1.38
25	BB	2350	C	C4'-O4'	-7.80	1.35	1.45
3	A1	1011	C	C5-C6	7.80	1.40	1.34
25	BB	2636	C	C5-C6	7.80	1.40	1.34
1	AA	38	A	N7-C5	7.80	1.44	1.39
3	A1	393	A	N3-C4	7.80	1.39	1.34
3	A1	822	U	O3'-P	-7.80	1.51	1.61
25	BB	446	G	N9-C8	-7.80	1.32	1.37
25	BB	1548	A	C6-N1	-7.80	1.30	1.35
3	A1	129	A	O3'-P	-7.79	1.51	1.61
25	BB	87	U	O3'-P	-7.79	1.51	1.61
25	BB	408	G	N1-C2	-7.79	1.31	1.37
3	A1	868	C	C5'-C4'	7.79	1.60	1.51
25	BB	302	C	N3-C4	-7.79	1.28	1.33
25	BB	361	G	N1-C2	-7.79	1.31	1.37
3	A1	1067	A	C5-C6	7.79	1.48	1.41
3	A1	1343	G	C2-N2	-7.79	1.26	1.34
25	BB	2389	G	N1-C2	-7.79	1.31	1.37
3	A1	654	G	C2'-O2'	7.79	1.51	1.41
25	BB	2102	G	N3-C4	7.79	1.41	1.35
3	A1	6	G	N9-C4	7.79	1.44	1.38
3	A1	844	G	C6-O6	-7.79	1.17	1.24
25	BB	1361	G	C6-N1	-7.79	1.34	1.39
3	A1	1015	G	O3'-P	-7.79	1.51	1.61
3	A1	1417	G	N1-C2	-7.78	1.31	1.37
25	BB	1373	A	C6-N1	7.78	1.41	1.35
25	BB	1935	G	C5-C6	7.78	1.50	1.42
3	A1	1368	A	N3-C4	7.78	1.39	1.34
25	BB	103	A	N7-C5	7.78	1.44	1.39
25	BB	1459	G	C5-C4	-7.78	1.32	1.38
1	AA	58	A	N9-C8	-7.78	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	69	G	C2-N3	7.78	1.39	1.32
3	A1	885	G	C6-O6	7.78	1.31	1.24
3	A1	936	C	C5-C6	7.78	1.40	1.34
25	BB	492	A	N3-C4	7.78	1.39	1.34
1	AA	30	G	C2-N2	-7.78	1.26	1.34
3	A1	418	C	C4-N4	-7.78	1.26	1.33
3	A1	523	A	N3-C4	7.78	1.39	1.34
3	A1	727	G	N7-C5	7.78	1.44	1.39
25	BB	2457	U	N1-C2	7.78	1.45	1.38
3	A1	258	G	C6-N1	-7.78	1.34	1.39
3	A1	1168	U	C4-O4	-7.78	1.17	1.23
24	BA	79	G	C8-N7	7.78	1.35	1.30
3	A1	286	C	C4-N4	-7.77	1.26	1.33
3	A1	365	U	C2-N3	7.77	1.43	1.37
3	A1	711	G	N1-C2	-7.77	1.31	1.37
25	BB	1949	G	N9-C8	7.77	1.43	1.37
25	BB	524	G	N7-C5	7.77	1.44	1.39
25	BB	2126	A	P-O5'	-7.77	1.51	1.59
25	BB	2207	C	C2'-O2'	7.77	1.51	1.41
25	BB	2461	A	C6-N1	7.77	1.41	1.35
25	BB	1953	A	O3'-P	-7.77	1.51	1.61
3	A1	1153	G	N7-C5	7.77	1.44	1.39
3	A1	1513	A	C4'-C3'	7.77	1.61	1.53
25	BB	1720	U	C2-N3	7.77	1.43	1.37
25	BB	137	U	N1-C2	7.77	1.45	1.38
1	AA	42	G	N7-C5	7.76	1.44	1.39
3	A1	577	G	O4'-C1'	7.76	1.51	1.41
25	BB	2727	A	C5-C6	-7.76	1.34	1.41
3	A1	745	G	N7-C5	7.76	1.44	1.39
1	AP	34	G	N3-C4	7.76	1.40	1.35
3	A1	261	U	C4-C5	7.76	1.50	1.43
25	BB	1296	G	C4'-O4'	-7.76	1.35	1.45
25	BB	1491	G	O3'-P	7.76	1.70	1.61
3	A1	630	A	N9-C8	-7.76	1.31	1.37
3	A1	1329	A	N9-C8	7.76	1.44	1.37
25	BB	464	U	C3'-C2'	7.76	1.61	1.52
25	BB	1754	A	C5-C4	-7.76	1.33	1.38
24	BA	2	G	C2-N2	-7.76	1.26	1.34
3	A1	1149	C	C4-C5	-7.76	1.36	1.43
25	BB	943	A	N7-C5	7.76	1.44	1.39
3	A1	769	G	C2-N2	-7.75	1.26	1.34
25	BB	68	G	N1-C2	-7.75	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	557	G	O4'-C1'	7.75	1.51	1.41
3	A1	575	G	N1-C2	-7.75	1.31	1.37
25	BB	1687	G	N1-C2	-7.75	1.31	1.37
25	BB	1736	U	C5'-C4'	7.75	1.60	1.51
25	BB	1914	C	C3'-C2'	7.75	1.61	1.52
25	BB	1999	C	O3'-P	-7.75	1.51	1.61
25	BB	2031	A	C6-N6	-7.75	1.27	1.33
3	A1	926	G	N1-C2	-7.75	1.31	1.37
25	BB	1527	G	C5-C4	-7.75	1.32	1.38
25	BB	2360	G	C8-N7	-7.75	1.26	1.30
3	A1	513	C	C2-O2	-7.75	1.17	1.24
3	A1	796	C	C4'-C3'	7.75	1.61	1.53
3	A1	1355	G	C6-N1	-7.75	1.34	1.39
3	A1	1389	C	N3-C4	-7.75	1.28	1.33
3	A1	1512	U	N1-C2	7.75	1.45	1.38
24	BA	9	G	N7-C5	7.75	1.43	1.39
25	BB	2357	G	N1-C2	-7.75	1.31	1.37
3	A1	961	U	C5-C6	7.75	1.41	1.34
25	BB	2375	G	C2-N2	-7.75	1.26	1.34
3	A1	469	C	C4-N4	-7.75	1.26	1.33
3	A1	674	G	N3-C4	7.75	1.40	1.35
3	A1	1141	C	C5-C6	7.75	1.40	1.34
1	AP	36	A	C2-N3	-7.74	1.26	1.33
3	A1	1520	C	C4'-C3'	7.74	1.61	1.53
25	BB	720	U	N1-C2	7.74	1.45	1.38
25	BB	1228	G	N3-C4	7.74	1.40	1.35
25	BB	1828	G	C5-C6	7.74	1.50	1.42
3	A1	430	A	O3'-P	-7.74	1.51	1.61
1	AA	37	G	C2-N2	-7.74	1.26	1.34
1	AP	14	A	C8-N7	7.74	1.36	1.31
3	A1	1055	A	N1-C2	-7.74	1.27	1.34
24	BA	72	G	N9-C8	-7.74	1.32	1.37
25	BB	353	C	C4-N4	-7.74	1.26	1.33
25	BB	1300	G	C5'-C4'	7.74	1.60	1.51
25	BB	1320	C	C5'-C4'	7.74	1.60	1.51
3	A1	384	G	C2-N2	-7.74	1.26	1.34
3	A1	1115	U	C2'-C1'	7.74	1.61	1.53
3	A1	1186	G	N1-C2	-7.74	1.31	1.37
25	BB	39	G	N1-C2	-7.74	1.31	1.37
25	BB	165	A	N9-C4	7.74	1.42	1.37
25	BB	422	A	C5-C6	7.74	1.48	1.41
25	BB	535	G	C6-N1	-7.74	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	495	A	N7-C5	7.74	1.43	1.39
25	BB	2515	C	C4-N4	-7.74	1.26	1.33
25	BB	2803	G	O3'-P	-7.74	1.51	1.61
1	AP	70	C	C2-N3	-7.74	1.29	1.35
3	A1	145	G	C2-N2	-7.74	1.26	1.34
3	A1	978	A	C3'-O3'	7.74	1.52	1.42
25	BB	51	G	C6-N1	-7.74	1.34	1.39
25	BB	2242	G	C2'-C1'	7.73	1.61	1.53
3	A1	159	G	N9-C4	-7.73	1.31	1.38
3	A1	470	C	C4-N4	-7.73	1.26	1.33
3	A1	1428	A	N7-C5	7.73	1.43	1.39
25	BB	467	G	C6-N1	-7.73	1.34	1.39
25	BB	1795	C	C5-C6	7.73	1.40	1.34
25	BB	2435	A	N9-C4	7.73	1.42	1.37
1	AA	4	G	N1-C2	-7.73	1.31	1.37
25	BB	2573	C	N3-C4	-7.73	1.28	1.33
25	BB	337	C	N3-C4	-7.73	1.28	1.33
25	BB	2066	C	P-O5'	7.73	1.67	1.59
25	BB	2319	G	C2-N2	-7.73	1.26	1.34
3	A1	671	G	N9-C4	7.72	1.44	1.38
3	A1	895	G	C4'-C3'	-7.72	1.44	1.53
25	BB	707	G	N7-C5	7.72	1.43	1.39
25	BB	862	G	C2-N2	-7.72	1.26	1.34
25	BB	1187	G	C2-N2	-7.72	1.26	1.34
25	BB	1550	C	N3-C4	-7.72	1.28	1.33
30	BG	30	ARG	CZ-NH2	-7.72	1.23	1.33
3	A1	704	A	C5-C4	-7.72	1.33	1.38
1	AP	16	U	N1-C2	7.72	1.45	1.38
1	AE	74	C	P-O5'	-7.72	1.52	1.59
3	A1	846	G	N3-C4	7.72	1.40	1.35
25	BB	78	U	C3'-O3'	7.72	1.52	1.42
25	BB	136	G	P-O5'	7.72	1.67	1.59
25	BB	2333	A	C5-C4	-7.72	1.33	1.38
3	A1	31	G	C2-N2	-7.72	1.26	1.34
3	A1	79	G	N3-C4	7.72	1.40	1.35
25	BB	1121	C	C2'-C1'	7.72	1.61	1.53
25	BB	2708	G	C4'-C3'	-7.72	1.44	1.53
3	A1	742	G	P-O5'	7.71	1.67	1.59
3	A1	1038	C	C4'-C3'	-7.71	1.44	1.53
12	AK	42	ARG	CZ-NH2	-7.71	1.23	1.33
25	BB	881	G	C8-N7	7.71	1.35	1.30
25	BB	2039	U	N3-C4	-7.71	1.31	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2294	G	N7-C5	7.71	1.43	1.39
25	BB	2880	C	C5'-C4'	7.71	1.60	1.51
1	AE	27	C	N3-C4	-7.71	1.28	1.33
3	A1	453	G	C2-N3	-7.71	1.26	1.32
25	BB	2829	A	C6-N1	-7.71	1.30	1.35
25	BB	815	C	C2'-C1'	7.71	1.61	1.53
25	BB	328	U	C4-O4	-7.71	1.17	1.23
25	BB	1643	G	C2-N2	-7.71	1.26	1.34
3	A1	166	U	C4-C5	-7.71	1.36	1.43
1	AA	35	A	N7-C5	7.71	1.43	1.39
1	AE	10	G	N3-C4	7.71	1.40	1.35
3	A1	155	A	C5-C4	-7.71	1.33	1.38
3	A1	1365	G	C6-N1	-7.71	1.34	1.39
25	BB	630	G	C5-C4	7.71	1.43	1.38
25	BB	830	G	N3-C4	7.71	1.40	1.35
25	BB	1392	A	N9-C4	-7.71	1.33	1.37
25	BB	1653	G	C6-N1	-7.71	1.34	1.39
25	BB	259	G	N1-C2	-7.71	1.31	1.37
3	A1	75	G	C2-N2	-7.70	1.26	1.34
3	A1	264	C	N3-C4	-7.70	1.28	1.33
3	A1	463	U	C2'-C1'	-7.70	1.44	1.53
3	A1	747	A	N9-C8	-7.70	1.31	1.37
25	BB	190	A	C5-C6	7.70	1.48	1.41
43	BT	15	ARG	CZ-NH2	-7.70	1.23	1.33
25	BB	487	C	N1-C6	7.70	1.41	1.37
25	BB	2738	A	O3'-P	-7.70	1.51	1.61
25	BB	668	A	N1-C2	-7.70	1.27	1.34
25	BB	829	A	C3'-C2'	7.70	1.61	1.52
25	BB	2021	C	C4-C5	-7.70	1.36	1.43
25	BB	2637	U	C4-O4	-7.70	1.17	1.23
3	A1	80	A	C4'-O4'	-7.70	1.35	1.45
25	BB	23	G	C2-N2	-7.70	1.26	1.34
25	BB	638	G	C8-N7	-7.70	1.26	1.30
1	AP	33	U	C2-N3	-7.70	1.32	1.37
3	A1	842	U	O4'-C1'	7.70	1.51	1.41
25	BB	1002	G	C5-C4	7.70	1.43	1.38
25	BB	2314	A	C4'-C3'	7.70	1.61	1.53
3	A1	774	G	C6-N1	-7.70	1.34	1.39
25	BB	1878	G	O3'-P	-7.70	1.51	1.61
25	BB	1945	G	C6-N1	-7.70	1.34	1.39
3	A1	1371	G	C2-N2	-7.69	1.26	1.34
25	BB	2085	U	O3'-P	-7.69	1.51	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	595	A	P-O5'	7.69	1.67	1.59
24	BA	68	C	C5-C6	7.69	1.40	1.34
25	BB	1682	G	P-O5'	-7.69	1.52	1.59
25	BB	1897	G	N7-C5	7.69	1.43	1.39
3	A1	1194	U	C2-N3	-7.69	1.32	1.37
24	BA	96	G	C6-N1	-7.69	1.34	1.39
3	A1	1306	A	N9-C4	7.69	1.42	1.37
3	A1	1253	G	C2-N2	-7.69	1.26	1.34
3	A1	36	C	C4-N4	-7.68	1.27	1.33
3	A1	460	A	C8-N7	-7.68	1.26	1.31
25	BB	574	A	C6-N6	-7.68	1.27	1.33
25	BB	1142	A	P-O5'	7.68	1.67	1.59
25	BB	1237	A	C5-C6	7.68	1.48	1.41
25	BB	1237	A	C6-N1	-7.68	1.30	1.35
3	A1	966	G	C2'-C1'	7.68	1.61	1.53
25	BB	129	C	C2-N3	7.68	1.41	1.35
25	BB	255	A	N7-C5	7.68	1.43	1.39
25	BB	342	A	C2'-O2'	7.68	1.51	1.41
25	BB	1803	A	C2-N3	-7.68	1.26	1.33
25	BB	1878	G	N1-C2	-7.68	1.31	1.37
25	BB	1962	C	N1-C6	7.68	1.41	1.37
25	BB	2187	U	P-O5'	-7.68	1.52	1.59
1	AE	73	A	C8-N7	7.68	1.36	1.31
25	BB	1447	C	C4-N4	-7.68	1.27	1.33
1	AE	70	C	C2'-O2'	7.68	1.51	1.41
3	A1	801	U	N1-C2	7.68	1.45	1.38
25	BB	210	C	C5-C6	7.68	1.40	1.34
25	BB	1177	G	O3'-P	-7.68	1.51	1.61
25	BB	1916	A	N1-C2	-7.68	1.27	1.34
55	B6	107	GLY	CA-C	7.68	1.64	1.51
3	A1	1092	A	C8-N7	-7.68	1.26	1.31
25	BB	1961	C	C4-N4	-7.68	1.27	1.33
24	BA	55	U	P-O5'	-7.67	1.52	1.59
25	BB	1569	A	C5-C6	7.67	1.48	1.41
3	A1	278	G	N7-C5	7.67	1.43	1.39
25	BB	2066	C	C4-N4	-7.67	1.27	1.33
25	BB	2171	A	N1-C2	-7.67	1.27	1.34
3	A1	561	U	N1-C2	7.67	1.45	1.38
25	BB	2139	U	C2-O2	7.67	1.29	1.22
25	BB	2379	G	P-O5'	7.67	1.67	1.59
25	BB	2375	G	C6-N1	-7.67	1.34	1.39
3	A1	1151	A	C6-N1	-7.67	1.30	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1196	A	N9-C4	7.67	1.42	1.37
3	A1	1309	G	C2-N2	-7.67	1.26	1.34
25	BB	512	G	N9-C8	-7.67	1.32	1.37
25	BB	837	C	N3-C4	-7.67	1.28	1.33
25	BB	1559	U	P-O5'	-7.67	1.52	1.59
25	BB	2153	C	N1-C6	7.67	1.41	1.37
25	BB	2349	G	N1-C2	-7.67	1.31	1.37
3	A1	138	G	C8-N7	7.67	1.35	1.30
3	A1	828	U	C4-O4	-7.67	1.17	1.23
25	BB	1875	G	C5'-C4'	7.67	1.60	1.51
25	BB	2325	G	C3'-C2'	7.67	1.61	1.52
25	BB	2851	A	N9-C8	7.67	1.43	1.37
3	A1	781	A	C5'-C4'	7.67	1.60	1.51
25	BB	532	A	C3'-C2'	7.67	1.61	1.52
25	BB	2664	G	C6-N1	-7.67	1.34	1.39
25	BB	2869	G	C6-N1	-7.67	1.34	1.39
3	A1	803	G	C8-N7	-7.66	1.26	1.30
3	A1	833	G	N1-C2	-7.66	1.31	1.37
25	BB	805	G	N7-C5	7.66	1.43	1.39
25	BB	1346	G	C5-C6	7.66	1.50	1.42
25	BB	2868	A	C6-N1	-7.66	1.30	1.35
1	AA	72	C	N3-C4	-7.66	1.28	1.33
3	A1	102	G	C6-N1	7.66	1.45	1.39
25	BB	278	A	N7-C5	-7.66	1.34	1.39
25	BB	2145	C	N1-C6	7.66	1.41	1.37
1	AP	53	G	N3-C4	7.66	1.40	1.35
3	A1	491	G	C6-N1	7.66	1.45	1.39
3	A1	753	A	C2'-O2'	7.66	1.51	1.41
17	AR	145	ARG	CZ-NH1	-7.66	1.23	1.33
25	BB	314	C	C4-N4	-7.66	1.27	1.33
25	BB	947	A	C6-N6	-7.66	1.27	1.33
25	BB	2535	G	C3'-C2'	7.66	1.61	1.52
3	A1	545	C	C2-O2	-7.66	1.17	1.24
25	BB	111	A	N7-C5	7.66	1.43	1.39
25	BB	340	A	N9-C8	7.66	1.43	1.37
25	BB	2765	A	N3-C4	7.66	1.39	1.34
3	A1	455	G	C6-N1	-7.66	1.34	1.39
3	A1	522	C	C5-C6	7.66	1.40	1.34
3	A1	670	G	C6-N1	-7.66	1.34	1.39
25	BB	1056	G	C8-N7	7.66	1.35	1.30
25	BB	1124	G	C5'-C4'	7.66	1.60	1.51
3	A1	621	A	C4'-O4'	-7.65	1.35	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	6	A	C8-N7	7.65	1.36	1.31
25	BB	417	C	N3-C4	-7.65	1.28	1.33
25	BB	626	A	C6-N6	-7.65	1.27	1.33
25	BB	1991	U	C2-N3	7.65	1.43	1.37
25	BB	2193	G	C8-N7	7.65	1.35	1.30
1	AP	57	G	N9-C8	-7.65	1.32	1.37
3	A1	1443	C	C5-C6	7.65	1.40	1.34
25	BB	513	A	N7-C5	7.65	1.43	1.39
25	BB	624	C	C5'-C4'	7.65	1.60	1.51
25	BB	784	G	C8-N7	-7.65	1.26	1.30
37	BN	68	ARG	CZ-NH1	-7.65	1.23	1.33
3	A1	1051	C	C4-N4	-7.65	1.27	1.33
25	BB	2555	U	C2-O2	7.65	1.29	1.22
3	A1	520	A	N9-C4	-7.65	1.33	1.37
25	BB	798	G	C5-C4	7.65	1.43	1.38
25	BB	1062	G	N1-C2	-7.65	1.31	1.37
25	BB	1950	G	C2-N3	7.65	1.38	1.32
25	BB	2162	G	N7-C5	7.65	1.43	1.39
25	BB	1715	G	N3-C4	7.65	1.40	1.35
25	BB	888	C	C4'-O4'	-7.64	1.35	1.45
25	BB	1095	A	C6-N6	-7.64	1.27	1.33
25	BB	1445	G	C8-N7	-7.64	1.26	1.30
3	A1	378	G	C2-N2	-7.64	1.26	1.34
3	A1	1383	C	C4-N4	-7.64	1.27	1.33
25	BB	198	C	C3'-C2'	7.64	1.61	1.52
25	BB	381	G	C5-C6	7.64	1.50	1.42
25	BB	425	G	C8-N7	7.64	1.35	1.30
3	A1	1147	C	C3'-C2'	7.64	1.61	1.52
25	BB	892	A	N3-C4	7.64	1.39	1.34
1	AE	26	G	C5-C6	7.64	1.50	1.42
25	BB	155	A	C3'-C2'	-7.64	1.44	1.52
25	BB	350	G	N7-C5	7.64	1.43	1.39
25	BB	1148	U	C5-C6	7.64	1.41	1.34
25	BB	1364	G	C2-N2	-7.64	1.26	1.34
3	A1	1065	U	N3-C4	-7.64	1.31	1.38
25	BB	1604	C	N3-C4	-7.64	1.28	1.33
25	BB	1210	G	C4'-C3'	7.63	1.61	1.53
25	BB	1529	G	N7-C5	7.63	1.43	1.39
25	BB	2577	A	N3-C4	7.63	1.39	1.34
3	A1	361	G	N9-C8	7.63	1.43	1.37
3	A1	669	G	N1-C2	-7.63	1.31	1.37
3	A1	820	U	C4-C5	-7.63	1.36	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1187	G	N3-C4	7.63	1.40	1.35
25	BB	1691	C	C4-C5	-7.63	1.36	1.43
3	A1	1135	U	P-O5'	7.63	1.67	1.59
24	BA	18	G	C2-N2	-7.63	1.26	1.34
3	A1	895	G	C2-N2	-7.63	1.26	1.34
25	BB	1785	A	C6-N1	-7.63	1.30	1.35
25	BB	2087	G	C5'-C4'	7.63	1.60	1.51
25	BB	2592	G	C2-N2	-7.63	1.26	1.34
3	A1	462	G	N1-C2	-7.63	1.31	1.37
3	A1	771	G	N9-C8	-7.63	1.32	1.37
25	BB	65	U	N3-C4	-7.63	1.31	1.38
25	BB	1230	A	N9-C4	7.63	1.42	1.37
3	A1	292	G	C8-N7	7.62	1.35	1.30
3	A1	914	A	N9-C4	7.62	1.42	1.37
25	BB	1280	G	C2-N2	-7.62	1.26	1.34
3	A1	606	G	C2-N2	-7.62	1.26	1.34
3	A1	1073	U	N3-C4	-7.62	1.31	1.38
24	BA	115	A	C6-N6	-7.62	1.27	1.33
25	BB	1977	A	C8-N7	7.62	1.36	1.31
25	BB	2116	G	N1-C2	-7.62	1.31	1.37
25	BB	1969	A	N9-C4	7.62	1.42	1.37
25	BB	652	U	N1-C6	7.62	1.44	1.38
3	A1	451	A	N3-C4	7.62	1.39	1.34
25	BB	620	G	N3-C4	7.62	1.40	1.35
1	AP	67	A	C8-N7	-7.62	1.26	1.31
3	A1	1404	C	N3-C4	-7.62	1.28	1.33
25	BB	1984	G	C4'-O4'	-7.62	1.35	1.45
25	BB	2178	C	N3-C4	-7.62	1.28	1.33
25	BB	2197	U	O3'-P	-7.62	1.52	1.61
25	BB	2761	A	C6-N6	-7.62	1.27	1.33
3	A1	584	G	C8-N7	7.61	1.35	1.30
3	A1	1132	C	C2-N3	7.61	1.41	1.35
25	BB	270	A	N7-C5	7.61	1.43	1.39
25	BB	329	G	C3'-C2'	7.61	1.61	1.52
25	BB	1141	U	N3-C4	-7.61	1.31	1.38
3	A1	1464	U	C3'-C2'	7.61	1.61	1.52
24	BA	50	A	C5'-C4'	7.61	1.60	1.51
24	BA	104	A	C4'-C3'	-7.61	1.44	1.53
25	BB	1297	C	C4-N4	-7.61	1.27	1.33
25	BB	2191	A	C5'-C4'	7.61	1.60	1.51
37	BN	202	ARG	CZ-NH1	-7.61	1.23	1.33
3	A1	289	G	O3'-P	-7.61	1.52	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1468	A	N9-C8	7.61	1.43	1.37
3	A1	134	G	O3'-P	-7.61	1.52	1.61
3	A1	719	C	C5-C6	7.61	1.40	1.34
25	BB	424	G	C2-N3	-7.61	1.26	1.32
3	A1	373	A	C6-N1	-7.61	1.30	1.35
24	BA	117	G	C3'-C2'	7.61	1.61	1.52
25	BB	600	G	C2'-O2'	-7.61	1.31	1.41
25	BB	1505	A	O3'-P	-7.61	1.52	1.61
25	BB	1834	U	C5'-C4'	7.61	1.60	1.51
25	BB	2781	A	P-O5'	-7.61	1.52	1.59
3	A1	447	G	N7-C5	7.60	1.43	1.39
1	AA	18	G	P-O5'	7.60	1.67	1.59
1	AA	53	G	N1-C2	-7.60	1.31	1.37
3	A1	88	U	C5'-C4'	7.60	1.60	1.51
3	A1	153	C	N3-C4	-7.60	1.28	1.33
25	BB	48	G	C2-N2	-7.60	1.26	1.34
25	BB	986	C	N1-C6	7.60	1.41	1.37
25	BB	1623	G	C3'-C2'	7.60	1.61	1.52
25	BB	2179	C	C4-N4	-7.60	1.27	1.33
25	BB	2682	A	N9-C4	7.60	1.42	1.37
25	BB	2777	G	C6-N1	-7.60	1.34	1.39
3	A1	999	C	C5'-C4'	7.60	1.60	1.51
25	BB	1021	A	O3'-P	-7.60	1.52	1.61
25	BB	2303	G	C2-N2	-7.60	1.26	1.34
1	AP	27	C	C3'-C2'	7.60	1.61	1.52
3	A1	137	U	N1-C6	7.60	1.44	1.38
3	A1	468	A	C6-N6	-7.60	1.27	1.33
25	BB	78	U	C4-O4	-7.60	1.17	1.23
25	BB	228	C	C4-N4	-7.60	1.27	1.33
25	BB	649	G	N3-C4	7.60	1.40	1.35
3	A1	114	U	C2-N3	-7.60	1.32	1.37
3	A1	973	G	N3-C4	7.60	1.40	1.35
25	BB	1185	G	P-O5'	-7.60	1.52	1.59
25	BB	1555	G	C2'-C1'	7.60	1.61	1.53
3	A1	712	A	O3'-P	-7.60	1.52	1.61
25	BB	2061	G	C8-N7	7.60	1.35	1.30
3	A1	48	C	C4-N4	-7.59	1.27	1.33
3	A1	162	A	C6-N1	-7.59	1.30	1.35
3	A1	658	C	C4-C5	-7.59	1.36	1.43
3	A1	954	G	N7-C5	7.59	1.43	1.39
25	BB	759	G	C8-N7	-7.59	1.26	1.30
25	BB	2801	G	P-O5'	7.59	1.67	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2845	U	C2-N3	-7.59	1.32	1.37
3	A1	314	C	C5-C6	7.59	1.40	1.34
3	A1	521	G	C6-O6	-7.59	1.17	1.24
3	A1	648	A	N9-C4	7.59	1.42	1.37
3	A1	1221	G	N3-C4	7.59	1.40	1.35
3	A1	1332	A	C5'-C4'	7.59	1.60	1.51
25	BB	493	G	C3'-C2'	7.59	1.61	1.52
25	BB	580	U	C5-C6	7.59	1.41	1.34
25	BB	1569	A	C5-C4	-7.59	1.33	1.38
25	BB	1701	A	C6-N6	-7.59	1.27	1.33
1	AA	73	A	P-O5'	-7.59	1.52	1.59
3	A1	617	G	O3'-P	-7.59	1.52	1.61
25	BB	2134	A	C8-N7	7.59	1.36	1.31
3	A1	992	U	O3'-P	-7.59	1.52	1.61
3	A1	1180	A	C8-N7	7.59	1.36	1.31
1	AA	62	A	P-O5'	-7.59	1.52	1.59
1	AP	54	U	O4'-C1'	7.59	1.51	1.41
3	A1	676	A	C6-N6	-7.59	1.27	1.33
3	A1	1262	C	C4-N4	-7.59	1.27	1.33
25	BB	27	G	N9-C8	-7.59	1.32	1.37
25	BB	54	G	N9-C8	7.59	1.43	1.37
25	BB	713	G	C8-N7	-7.59	1.26	1.30
2	AM	13	U	P-O5'	7.58	1.67	1.59
3	A1	987	G	N1-C2	-7.58	1.31	1.37
3	A1	1466	C	P-O5'	7.58	1.67	1.59
25	BB	495	G	C8-N7	-7.58	1.26	1.30
25	BB	2471	A	C2-N3	-7.58	1.26	1.33
3	A1	667	G	N1-C2	-7.58	1.31	1.37
3	A1	802	A	N3-C4	7.58	1.39	1.34
25	BB	145	C	C4-C5	-7.58	1.36	1.43
25	BB	172	A	C6-N1	-7.58	1.30	1.35
25	BB	315	G	N3-C4	7.58	1.40	1.35
25	BB	856	G	C2-N2	-7.58	1.26	1.34
3	A1	725	G	N7-C5	7.58	1.43	1.39
3	A1	1321	U	N1-C2	7.58	1.45	1.38
25	BB	125	A	N9-C8	7.58	1.43	1.37
3	A1	1225	A	C5-C6	7.58	1.47	1.41
3	A1	1347	G	C4'-O4'	-7.58	1.35	1.45
25	BB	28	A	N7-C5	7.58	1.43	1.39
25	BB	60	G	N3-C4	7.58	1.40	1.35
25	BB	1698	A	N3-C4	7.58	1.39	1.34
25	BB	1770	G	N7-C5	7.58	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2846	G	N3-C4	7.58	1.40	1.35
3	A1	324	G	C5-C4	-7.58	1.33	1.38
3	A1	1405	G	C5'-C4'	7.58	1.60	1.51
25	BB	119	A	C5'-C4'	7.58	1.60	1.51
25	BB	2138	G	N7-C5	7.58	1.43	1.39
3	A1	1530	G	N3-C4	7.57	1.40	1.35
24	BA	76	G	C2-N2	-7.57	1.26	1.34
25	BB	707	G	C2-N2	-7.57	1.26	1.34
25	BB	1030	C	C4-N4	-7.57	1.27	1.33
25	BB	1547	C	C4-N4	-7.57	1.27	1.33
3	A1	723	U	N1-C2	7.57	1.45	1.38
3	A1	1529	G	N9-C4	7.57	1.44	1.38
25	BB	1031	G	N1-C2	-7.57	1.31	1.37
25	BB	1157	G	N1-C2	-7.57	1.31	1.37
25	BB	1512	C	C4-N4	-7.57	1.27	1.33
25	BB	2386	A	C5-C6	7.57	1.47	1.41
25	BB	1306	C	C5'-C4'	7.57	1.60	1.51
25	BB	2484	G	N1-C2	-7.57	1.31	1.37
25	BB	2668	G	N1-C2	-7.57	1.31	1.37
3	A1	1455	G	N9-C8	7.57	1.43	1.37
25	BB	1039	A	C2-N3	-7.57	1.26	1.33
25	BB	1612	C	C4-N4	-7.57	1.27	1.33
25	BB	1851	U	P-O5'	-7.57	1.52	1.59
25	BB	1207	C	C4-N4	-7.56	1.27	1.33
25	BB	2537	U	P-O5'	7.56	1.67	1.59
3	A1	374	A	P-O5'	-7.56	1.52	1.59
25	BB	1927	A	C2'-C1'	7.56	1.61	1.53
25	BB	2210	U	N1-C2	7.56	1.45	1.38
3	A1	917	G	C4'-O4'	-7.56	1.35	1.45
25	BB	54	G	N1-C2	-7.56	1.31	1.37
25	BB	2160	C	N3-C4	-7.56	1.28	1.33
1	AA	5	A	C6-N1	-7.56	1.30	1.35
3	A1	67	C	N1-C6	7.56	1.41	1.37
3	A1	1531	A	C2'-C1'	7.56	1.61	1.53
24	BA	96	G	N3-C4	7.56	1.40	1.35
25	BB	121	G	N1-C2	-7.56	1.31	1.37
25	BB	526	A	C4'-O4'	-7.56	1.35	1.45
25	BB	533	G	C6-O6	-7.56	1.17	1.24
25	BB	662	G	C2-N2	-7.56	1.26	1.34
24	BA	44	G	C6-N1	-7.56	1.34	1.39
25	BB	1436	G	C4'-C3'	-7.56	1.44	1.53
3	A1	480	U	C4-O4	-7.55	1.17	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
18	AS	28	ARG	CZ-NH2	-7.55	1.23	1.33
24	BA	8	C	N3-C4	-7.55	1.28	1.33
24	BA	92	C	C4-N4	-7.55	1.27	1.33
25	BB	89	A	N1-C2	-7.55	1.27	1.34
25	BB	1499	C	C4-C5	-7.55	1.36	1.43
25	BB	2626	C	O3'-P	-7.55	1.52	1.61
3	A1	721	G	C8-N7	-7.55	1.26	1.30
24	BA	64	G	C2-N2	-7.55	1.26	1.34
25	BB	2158	A	N7-C5	7.55	1.43	1.39
25	BB	2627	G	O3'-P	-7.55	1.52	1.61
25	BB	424	G	N3-C4	7.55	1.40	1.35
25	BB	891	G	C6-N1	-7.55	1.34	1.39
25	BB	1576	U	C2'-C1'	7.55	1.61	1.53
25	BB	2412	A	P-O5'	7.55	1.67	1.59
25	BB	298	G	P-O5'	-7.55	1.52	1.59
25	BB	2688	G	C2-N2	-7.55	1.27	1.34
3	A1	1138	G	N3-C4	7.54	1.40	1.35
25	BB	2373	G	C5'-C4'	7.54	1.60	1.51
3	A1	110	C	C4-N4	-7.54	1.27	1.33
3	A1	162	A	N7-C5	7.54	1.43	1.39
3	A1	1159	U	P-O5'	-7.54	1.52	1.59
25	BB	722	A	C2-N3	-7.54	1.26	1.33
25	BB	1522	A	C6-N6	-7.54	1.27	1.33
25	BB	1681	G	N1-C2	-7.54	1.31	1.37
25	BB	1697	G	C6-N1	-7.54	1.34	1.39
25	BB	989	G	N1-C2	-7.54	1.31	1.37
25	BB	1067	A	C6-N6	-7.54	1.27	1.33
25	BB	1875	G	N1-C2	-7.54	1.31	1.37
25	BB	2418	A	C5-C4	-7.54	1.33	1.38
25	BB	2274	A	C6-N1	-7.54	1.30	1.35
3	A1	475	C	C4-C5	-7.54	1.36	1.43
3	A1	1249	C	N3-C4	-7.54	1.28	1.33
25	BB	202	U	C5-C6	7.54	1.41	1.34
25	BB	774	G	C6-N1	-7.54	1.34	1.39
3	A1	282	A	C6-N6	-7.54	1.27	1.33
25	BB	224	U	C4-O4	7.54	1.29	1.23
25	BB	522	A	N7-C5	7.54	1.43	1.39
25	BB	1436	G	P-O5'	7.54	1.67	1.59
25	BB	1486	U	C4-O4	-7.54	1.17	1.23
25	BB	2554	U	C5'-C4'	7.54	1.60	1.51
1	AA	62	A	O3'-P	-7.54	1.52	1.61
3	A1	11	G	C2-N2	-7.54	1.27	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	121	U	C2'-C1'	7.54	1.61	1.53
3	A1	829	G	N1-C2	-7.54	1.31	1.37
3	A1	1351	U	C5-C6	7.54	1.41	1.34
25	BB	1167	C	N1-C6	-7.54	1.32	1.37
25	BB	1501	G	C5'-C4'	7.54	1.60	1.51
25	BB	1876	A	P-O5'	7.54	1.67	1.59
25	BB	2032	G	C6-N1	-7.54	1.34	1.39
25	BB	2376	A	C6-N6	-7.54	1.27	1.33
24	BA	98	G	N1-C2	-7.53	1.31	1.37
3	A1	902	G	N1-C2	-7.53	1.31	1.37
25	BB	1911	U	C3'-C2'	7.53	1.61	1.52
25	BB	2123	G	C2-N2	-7.53	1.27	1.34
3	A1	736	C	N3-C4	-7.53	1.28	1.33
25	BB	330	A	C6-N6	-7.53	1.27	1.33
25	BB	1552	A	N7-C5	7.53	1.43	1.39
1	AP	7	U	C3'-C2'	7.53	1.61	1.52
3	A1	441	A	C5-C4	7.53	1.44	1.38
3	A1	1407	C	O3'-P	7.53	1.70	1.61
25	BB	165	A	N1-C2	-7.53	1.27	1.34
25	BB	914	G	C2-N3	7.53	1.38	1.32
3	A1	755	G	C2-N3	7.53	1.38	1.32
3	A1	1198	G	N7-C5	7.53	1.43	1.39
25	BB	24	G	N3-C4	-7.53	1.30	1.35
25	BB	1704	C	P-O5'	7.53	1.67	1.59
1	AE	1	G	N7-C5	7.53	1.43	1.39
3	A1	887	G	C3'-C2'	7.53	1.61	1.52
25	BB	744	U	C2-N3	7.53	1.43	1.37
25	BB	1331	G	N9-C4	-7.53	1.31	1.38
25	BB	2542	A	P-O5'	7.53	1.67	1.59
25	BB	2570	G	N7-C5	7.53	1.43	1.39
25	BB	2886	A	C8-N7	7.53	1.36	1.31
3	A1	1353	G	C2-N2	-7.52	1.27	1.34
25	BB	576	U	C2'-C1'	-7.52	1.45	1.53
25	BB	1595	C	C4-C5	-7.52	1.36	1.43
25	BB	1971	U	N1-C2	7.52	1.45	1.38
1	AE	22	G	C5-C6	7.52	1.49	1.42
25	BB	205	G	N9-C8	7.52	1.43	1.37
25	BB	982	C	O3'-P	-7.52	1.52	1.61
3	A1	541	G	C2-N2	-7.52	1.27	1.34
3	A1	1427	C	N1-C6	-7.52	1.32	1.37
24	BA	99	A	C4'-C3'	7.52	1.61	1.53
25	BB	452	G	C5'-C4'	7.52	1.60	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	540	C	C4-N4	-7.52	1.27	1.33
25	BB	1661	G	C6-N1	-7.52	1.34	1.39
25	BB	1836	C	C4-N4	-7.52	1.27	1.33
3	A1	418	C	P-O5'	-7.52	1.52	1.59
3	A1	1271	A	C8-N7	-7.52	1.26	1.31
25	BB	303	G	C8-N7	7.52	1.35	1.30
25	BB	1224	U	C4'-C3'	7.52	1.61	1.53
25	BB	1805	A	N7-C5	7.52	1.43	1.39
1	AA	47	U	N1-C6	7.52	1.44	1.38
3	A1	1057	G	C2-N3	7.52	1.38	1.32
25	BB	1484	U	C2'-O2'	7.52	1.51	1.41
25	BB	1075	C	N1-C6	7.51	1.41	1.37
25	BB	2140	G	P-O5'	7.51	1.67	1.59
3	A1	257	G	C2'-O2'	7.51	1.51	1.41
25	BB	319	G	N3-C4	7.51	1.40	1.35
3	A1	875	U	C4-C5	7.51	1.50	1.43
25	BB	1096	A	N9-C4	7.51	1.42	1.37
25	BB	2426	A	N7-C5	7.51	1.43	1.39
3	A1	1184	G	C5-C6	7.51	1.49	1.42
25	BB	824	U	C5-C6	7.51	1.41	1.34
25	BB	1324	G	C2-N2	-7.51	1.27	1.34
25	BB	1667	G	C2-N2	-7.51	1.27	1.34
25	BB	2781	A	N7-C5	-7.51	1.34	1.39
1	AP	4	G	N1-C2	-7.51	1.31	1.37
25	BB	857	G	C2-N2	-7.51	1.27	1.34
1	AP	67	A	N1-C2	-7.51	1.27	1.34
3	A1	985	C	C4-N4	-7.51	1.27	1.33
3	A1	1164	G	C2-N2	-7.51	1.27	1.34
25	BB	277	G	C5-C4	7.51	1.43	1.38
25	BB	1626	A	N3-C4	7.51	1.39	1.34
3	A1	906	A	C6-N6	-7.50	1.27	1.33
25	BB	488	G	C8-N7	-7.50	1.26	1.30
25	BB	875	G	N9-C4	7.50	1.44	1.38
25	BB	2318	G	N1-C2	-7.50	1.31	1.37
25	BB	2801	G	N9-C4	-7.50	1.31	1.38
3	A1	404	G	N3-C4	7.50	1.40	1.35
3	A1	477	C	C4-N4	-7.50	1.27	1.33
3	A1	848	C	C4-N4	-7.50	1.27	1.33
25	BB	547	A	N7-C5	7.50	1.43	1.39
25	BB	1089	A	C6-N1	-7.50	1.30	1.35
25	BB	198	C	C4-N4	-7.50	1.27	1.33
25	BB	782	A	O3'-P	-7.50	1.52	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1975	G	C6-O6	-7.50	1.17	1.24
1	AA	49	C	C4-N4	-7.50	1.27	1.33
3	A1	505	G	C3'-C2'	7.50	1.61	1.52
3	A1	839	C	C4-N4	-7.50	1.27	1.33
25	BB	2401	U	O3'-P	-7.50	1.52	1.61
3	A1	887	G	N3-C4	7.50	1.40	1.35
3	A1	1071	C	N3-C4	-7.50	1.28	1.33
3	A1	1288	A	N7-C5	7.50	1.43	1.39
25	BB	1668	A	C6-N1	-7.50	1.30	1.35
25	BB	2255	G	N7-C5	7.50	1.43	1.39
3	A1	1198	G	C8-N7	7.50	1.35	1.30
25	BB	930	G	N1-C2	-7.50	1.31	1.37
25	BB	1191	G	P-O5'	-7.50	1.52	1.59
25	BB	1654	A	N7-C5	7.50	1.43	1.39
1	AP	53	G	C6-N1	-7.49	1.34	1.39
3	A1	249	U	C4-C5	7.49	1.50	1.43
3	A1	413	G	N1-C2	-7.49	1.31	1.37
3	A1	1285	A	O3'-P	7.49	1.70	1.61
3	A1	1482	G	C5'-C4'	7.49	1.60	1.51
24	BA	17	C	N3-C4	-7.49	1.28	1.33
25	BB	469	G	C2-N2	-7.49	1.27	1.34
25	BB	1348	C	O4'-C1'	7.49	1.51	1.41
25	BB	1441	G	C2-N2	-7.49	1.27	1.34
25	BB	1563	U	C2'-C1'	7.49	1.61	1.53
3	A1	1142	G	C2'-O2'	7.49	1.51	1.41
25	BB	71	A	N3-C4	7.49	1.39	1.34
25	BB	2286	G	C2'-C1'	7.49	1.61	1.53
25	BB	2465	C	C4-N4	-7.49	1.27	1.33
25	BB	2515	C	P-O5'	-7.49	1.52	1.59
3	A1	69	G	C5-C6	7.49	1.49	1.42
3	A1	862	C	N1-C6	7.49	1.41	1.37
3	A1	964	A	N3-C4	7.49	1.39	1.34
3	A1	1429	A	C6-N1	-7.49	1.30	1.35
25	BB	670	A	C6-N6	-7.49	1.27	1.33
3	A1	255	G	N9-C8	7.49	1.43	1.37
3	A1	1172	C	C4-C5	-7.49	1.36	1.43
25	BB	618	G	N9-C8	-7.49	1.32	1.37
25	BB	945	A	N1-C2	-7.49	1.27	1.34
25	BB	1239	G	C4'-O4'	-7.49	1.35	1.45
25	BB	1740	G	C2-N2	-7.49	1.27	1.34
25	BB	2245	U	N3-C4	-7.49	1.31	1.38
25	BB	2382	G	N7-C5	7.49	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2451	A	C6-N1	-7.49	1.30	1.35
25	BB	13	A	N3-C4	7.49	1.39	1.34
3	A1	204	G	C2-N2	-7.49	1.27	1.34
3	A1	539	A	N1-C2	-7.49	1.27	1.34
25	BB	196	A	C6-N1	-7.49	1.30	1.35
25	BB	607	U	C5'-C4'	7.49	1.60	1.51
25	BB	1114	C	C5'-C4'	7.49	1.60	1.51
24	BA	7	G	N3-C4	7.48	1.40	1.35
24	BA	37	C	C4-N4	-7.48	1.27	1.33
25	BB	1859	U	C4-C5	7.48	1.50	1.43
25	BB	64	A	C5-C4	-7.48	1.33	1.38
25	BB	73	A	C6-N6	-7.48	1.27	1.33
25	BB	140	C	O3'-P	-7.48	1.52	1.61
25	BB	1214	A	N7-C5	7.48	1.43	1.39
25	BB	1362	C	C4-C5	7.48	1.49	1.43
25	BB	1415	U	N3-C4	-7.48	1.31	1.38
24	BA	105	G	O3'-P	-7.48	1.52	1.61
25	BB	283	G	C8-N7	7.48	1.35	1.30
25	BB	451	U	N1-C2	7.48	1.45	1.38
25	BB	1073	A	C6-N6	-7.48	1.27	1.33
25	BB	1540	G	N3-C4	7.48	1.40	1.35
25	BB	1853	A	C6-N6	-7.48	1.27	1.33
25	BB	2220	U	N3-C4	-7.48	1.31	1.38
25	BB	2786	U	C4'-C3'	7.48	1.61	1.53
3	A1	423	G	C2-N2	-7.48	1.27	1.34
3	A1	646	G	C2'-C1'	7.48	1.61	1.53
3	A1	892	A	N3-C4	-7.48	1.30	1.34
24	BA	66	A	C6-N1	-7.48	1.30	1.35
25	BB	49	A	C6-N1	-7.48	1.30	1.35
25	BB	363	G	N1-C2	-7.48	1.31	1.37
25	BB	2576	G	C2-N2	-7.48	1.27	1.34
1	AE	9	A	O3'-P	-7.48	1.52	1.61
3	A1	391	G	N9-C4	7.48	1.44	1.38
25	BB	2768	U	O3'-P	-7.48	1.52	1.61
3	A1	85	U	N1-C2	7.47	1.45	1.38
3	A1	356	A	C4'-O4'	-7.47	1.35	1.45
3	A1	741	G	P-O5'	7.47	1.67	1.59
3	A1	1015	G	C2-N2	-7.47	1.27	1.34
25	BB	2061	G	C3'-C2'	7.47	1.61	1.52
25	BB	1231	U	N3-C4	-7.47	1.31	1.38
25	BB	1960	A	N3-C4	7.47	1.39	1.34
3	A1	284	C	N3-C4	-7.47	1.28	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	441	A	P-O5'	-7.47	1.52	1.59
3	A1	827	U	N1-C2	7.47	1.45	1.38
3	A1	1022	A	C6-N1	-7.47	1.30	1.35
25	BB	1127	A	N7-C5	7.47	1.43	1.39
25	BB	1327	A	C4'-O4'	-7.47	1.35	1.45
25	BB	460	A	N9-C4	-7.47	1.33	1.37
1	AA	54	U	O3'-P	-7.47	1.52	1.61
3	A1	953	G	P-O5'	7.47	1.67	1.59
25	BB	2112	G	C5'-C4'	7.47	1.60	1.51
25	BB	2419	U	N1-C2	7.47	1.45	1.38
25	BB	301	G	C4'-O4'	-7.46	1.35	1.45
25	BB	969	G	N7-C5	7.46	1.43	1.39
25	BB	2055	C	N3-C4	-7.46	1.28	1.33
25	BB	2172	U	O3'-P	-7.46	1.52	1.61
3	A1	50	A	C6-N1	-7.46	1.30	1.35
25	BB	386	G	C5'-C4'	7.46	1.60	1.51
25	BB	1885	A	N7-C5	7.46	1.43	1.39
25	BB	49	A	C4'-C3'	7.46	1.61	1.53
25	BB	1371	G	N1-C2	-7.46	1.31	1.37
25	BB	254	G	P-O5'	-7.46	1.52	1.59
3	A1	630	A	P-O5'	7.46	1.67	1.59
25	BB	1819	A	N9-C4	7.46	1.42	1.37
3	A1	1090	U	P-O5'	-7.46	1.52	1.59
25	BB	1790	C	C4-N4	-7.46	1.27	1.33
25	BB	2373	G	N3-C4	7.46	1.40	1.35
3	A1	487	A	C6-N1	-7.46	1.30	1.35
3	A1	1110	A	C8-N7	7.46	1.36	1.31
3	A1	1405	G	N1-C2	-7.46	1.31	1.37
25	BB	1126	A	P-O5'	-7.46	1.52	1.59
25	BB	2641	G	N1-C2	-7.46	1.31	1.37
25	BB	2659	G	N1-C2	-7.46	1.31	1.37
3	A1	729	A	C6-N1	-7.45	1.30	1.35
3	A1	773	G	C2-N2	-7.45	1.27	1.34
3	A1	786	G	N3-C4	7.45	1.40	1.35
3	A1	1526	G	P-O5'	-7.45	1.52	1.59
24	BA	20	G	C8-N7	7.45	1.35	1.30
24	BA	45	A	O3'-P	-7.45	1.52	1.61
25	BB	1414	C	C5-C6	7.45	1.40	1.34
25	BB	1500	G	C5-C6	7.45	1.49	1.42
25	BB	1660	G	C8-N7	7.45	1.35	1.30
25	BB	2347	C	C4-C5	-7.45	1.36	1.43
25	BB	2649	C	C4-N4	-7.45	1.27	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2859	G	N1-C2	-7.45	1.31	1.37
3	A1	254	G	C6-N1	-7.45	1.34	1.39
25	BB	583	G	P-O5'	-7.45	1.52	1.59
25	BB	798	G	C5'-C4'	7.45	1.60	1.51
25	BB	1100	C	C4-N4	-7.45	1.27	1.33
25	BB	2289	G	N7-C5	7.45	1.43	1.39
25	BB	2599	G	N7-C5	7.45	1.43	1.39
3	A1	74	A	C3'-C2'	7.45	1.61	1.52
3	A1	417	G	N1-C2	-7.45	1.31	1.37
3	A1	1134	G	N3-C4	7.45	1.40	1.35
25	BB	466	A	C2'-C1'	7.45	1.61	1.53
25	BB	496	G	N7-C5	7.45	1.43	1.39
25	BB	689	A	C8-N7	-7.45	1.26	1.31
25	BB	701	G	C2-N2	-7.45	1.27	1.34
25	BB	297	G	N1-C2	-7.45	1.31	1.37
25	BB	1699	G	N1-C2	-7.45	1.31	1.37
25	BB	2452	C	C5'-C4'	7.45	1.60	1.51
25	BB	2600	A	N1-C2	-7.45	1.27	1.34
25	BB	2864	G	C6-N1	-7.45	1.34	1.39
3	A1	276	G	C6-N1	7.45	1.44	1.39
3	A1	1457	G	C5-C4	-7.45	1.33	1.38
25	BB	2230	G	N3-C4	7.45	1.40	1.35
25	BB	815	C	N3-C4	-7.44	1.28	1.33
25	BB	2257	U	C2-N3	7.44	1.43	1.37
3	A1	439	U	C2'-O2'	7.44	1.51	1.41
3	A1	1055	A	C4'-O4'	-7.44	1.35	1.45
24	BA	75	G	N7-C5	7.44	1.43	1.39
25	BB	1726	C	C5-C6	7.44	1.40	1.34
25	BB	1762	A	C3'-C2'	7.44	1.61	1.52
25	BB	1875	G	C4'-C3'	7.44	1.61	1.53
25	BB	1947	C	C4-C5	-7.44	1.36	1.43
25	BB	1999	C	C4-N4	-7.44	1.27	1.33
25	BB	2626	C	N3-C4	-7.44	1.28	1.33
25	BB	2165	C	C2'-C1'	-7.44	1.45	1.53
25	BB	715	A	N7-C5	7.44	1.43	1.39
25	BB	765	C	C5-C6	7.44	1.40	1.34
25	BB	859	G	N7-C5	7.44	1.43	1.39
25	BB	1106	G	N1-C2	-7.44	1.31	1.37
25	BB	1388	G	C8-N7	-7.44	1.26	1.30
25	BB	2108	A	N9-C8	7.44	1.43	1.37
25	BB	2261	C	C4-N4	-7.44	1.27	1.33
1	AP	31	A	C8-N7	-7.44	1.26	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	674	G	C6-N1	-7.44	1.34	1.39
25	BB	980	A	N3-C4	-7.44	1.30	1.34
25	BB	1795	C	N3-C4	-7.44	1.28	1.33
3	A1	161	A	N3-C4	7.43	1.39	1.34
3	A1	504	C	C4'-O4'	-7.43	1.35	1.45
25	BB	138	U	C5-C6	7.43	1.40	1.34
25	BB	551	G	C5-C6	7.43	1.49	1.42
25	BB	2427	C	C4-C5	-7.43	1.37	1.43
25	BB	1698	A	C8-N7	7.43	1.36	1.31
1	AE	57	G	C5-C6	7.43	1.49	1.42
3	A1	200	G	C4'-C3'	-7.43	1.45	1.53
3	A1	1079	G	C6-N1	-7.43	1.34	1.39
24	BA	105	G	N1-C2	-7.43	1.31	1.37
25	BB	228	C	C4'-C3'	7.43	1.61	1.53
25	BB	711	G	C2-N3	7.43	1.38	1.32
25	BB	1737	G	N1-C2	-7.43	1.31	1.37
1	AP	30	G	N1-C2	-7.43	1.31	1.37
1	AP	44	A	C5-C6	7.43	1.47	1.41
3	A1	574	A	N9-C8	7.43	1.43	1.37
3	A1	996	A	C5-C6	7.43	1.47	1.41
25	BB	55	G	N7-C5	-7.43	1.34	1.39
25	BB	777	G	N9-C8	-7.43	1.32	1.37
25	BB	890	C	C5'-C4'	7.43	1.60	1.51
25	BB	1090	A	C6-N1	-7.43	1.30	1.35
25	BB	1874	C	N3-C4	-7.43	1.28	1.33
25	BB	1515	A	N3-C4	7.42	1.39	1.34
25	BB	2632	A	N9-C4	7.42	1.42	1.37
25	BB	2867	G	N7-C5	7.42	1.43	1.39
25	BB	119	A	N3-C4	-7.42	1.30	1.34
3	A1	234	C	C5-C6	7.42	1.40	1.34
25	BB	229	C	N3-C4	-7.42	1.28	1.33
25	BB	1338	G	C2-N2	-7.42	1.27	1.34
25	BB	1712	U	C4-C5	7.42	1.50	1.43
25	BB	404	A	N1-C2	-7.42	1.27	1.34
25	BB	963	U	O3'-P	7.42	1.70	1.61
25	BB	2106	U	O4'-C1'	7.42	1.51	1.41
1	AA	10	G	C8-N7	-7.42	1.26	1.30
3	A1	1412	C	C4-N4	-7.42	1.27	1.33
25	BB	1423	G	C3'-C2'	-7.42	1.44	1.52
25	BB	2759	G	C5-C6	7.42	1.49	1.42
25	BB	899	A	N9-C4	7.42	1.42	1.37
25	BB	954	G	N1-C2	-7.42	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1988	G	N1-C2	-7.42	1.31	1.37
25	BB	2734	A	C2'-C1'	7.42	1.61	1.53
3	A1	818	G	P-O5'	7.42	1.67	1.59
3	A1	965	U	N1-C2	7.42	1.45	1.38
25	BB	343	C	C4-N4	-7.42	1.27	1.33
25	BB	841	G	C4'-C3'	7.42	1.61	1.53
25	BB	1388	G	C2-N2	-7.42	1.27	1.34
1	AA	24	G	C6-N1	-7.41	1.34	1.39
3	A1	176	C	N1-C6	7.41	1.41	1.37
25	BB	477	A	P-O5'	-7.41	1.52	1.59
25	BB	1019	U	C4'-O4'	-7.41	1.35	1.45
25	BB	1206	G	C2-N3	-7.41	1.26	1.32
25	BB	2043	C	N1-C6	-7.41	1.32	1.37
25	BB	2221	G	C6-N1	-7.41	1.34	1.39
25	BB	2447	G	O3'-P	-7.41	1.52	1.61
25	BB	2729	G	C2-N2	-7.41	1.27	1.34
25	BB	110	G	C5'-C4'	7.41	1.60	1.51
25	BB	2484	G	C8-N7	-7.41	1.26	1.30
3	A1	1021	A	N7-C5	7.41	1.43	1.39
25	BB	1478	G	C4'-C3'	7.41	1.61	1.53
25	BB	2060	A	N9-C4	-7.41	1.33	1.37
25	BB	2157	G	N7-C5	7.41	1.43	1.39
25	BB	2547	A	N7-C5	7.41	1.43	1.39
25	BB	61	C	C4-C5	-7.41	1.37	1.43
25	BB	1207	C	O3'-P	-7.41	1.52	1.61
3	A1	639	G	N3-C4	-7.41	1.30	1.35
25	BB	921	C	C2-N3	7.41	1.41	1.35
25	BB	1859	U	C4-O4	-7.41	1.17	1.23
1	AP	29	A	C4'-O4'	-7.40	1.35	1.45
25	BB	553	G	N9-C8	7.40	1.43	1.37
25	BB	1259	G	C2-N2	-7.40	1.27	1.34
25	BB	2821	A	N7-C5	7.40	1.43	1.39
3	A1	634	C	N1-C6	7.40	1.41	1.37
3	A1	732	C	C4-N4	-7.40	1.27	1.33
24	BA	107	G	C5-C4	7.40	1.43	1.38
25	BB	1978	A	C8-N7	-7.40	1.26	1.31
1	AA	41	U	C4-C5	7.40	1.50	1.43
3	A1	141	G	C5-C6	7.40	1.49	1.42
24	BA	84	G	C6-N1	-7.40	1.34	1.39
25	BB	1522	A	N3-C4	7.40	1.39	1.34
25	BB	1508	A	P-O5'	-7.40	1.52	1.59
3	A1	807	A	P-O5'	7.40	1.67	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1417	G	C8-N7	-7.40	1.26	1.30
24	BA	11	C	C2-N3	-7.40	1.29	1.35
25	BB	46	G	N1-C2	-7.40	1.31	1.37
25	BB	1567	G	N1-C2	7.40	1.43	1.37
25	BB	1661	G	N1-C2	-7.40	1.31	1.37
25	BB	1706	C	C4-N4	-7.40	1.27	1.33
25	BB	462	C	C2-O2	-7.39	1.17	1.24
25	BB	1738	G	N9-C8	-7.39	1.32	1.37
3	A1	379	C	O4'-C1'	7.39	1.51	1.41
3	A1	1484	C	C4-N4	-7.39	1.27	1.33
25	BB	1774	C	N3-C4	-7.39	1.28	1.33
25	BB	2565	A	C8-N7	-7.39	1.26	1.31
25	BB	743	A	N3-C4	7.39	1.39	1.34
25	BB	760	G	C2'-C1'	7.39	1.61	1.53
25	BB	1212	G	C6-N1	-7.39	1.34	1.39
25	BB	1377	G	N1-C2	-7.39	1.31	1.37
3	A1	67	C	N3-C4	-7.39	1.28	1.33
25	BB	326	G	C3'-C2'	7.39	1.61	1.52
25	BB	603	A	C6-N6	-7.39	1.28	1.33
25	BB	1691	C	P-O5'	-7.39	1.52	1.59
25	BB	1970	A	N7-C5	7.39	1.43	1.39
25	BB	2121	G	C8-N7	7.39	1.35	1.30
3	A1	857	C	C3'-C2'	7.39	1.61	1.52
25	BB	1521	G	N1-C2	-7.39	1.31	1.37
1	AE	37	G	C2-N2	-7.39	1.27	1.34
3	A1	148	G	C6-N1	7.39	1.44	1.39
3	A1	234	C	N3-C4	-7.39	1.28	1.33
3	A1	537	G	C2-N3	-7.39	1.26	1.32
24	BA	39	A	C5-C4	-7.39	1.33	1.38
25	BB	458	G	O3'-P	-7.39	1.52	1.61
25	BB	1023	U	C4'-O4'	-7.39	1.35	1.45
1	AA	24	G	C2'-C1'	7.38	1.61	1.53
3	A1	107	G	C8-N7	7.38	1.35	1.30
3	A1	533	A	C5-C4	-7.38	1.33	1.38
3	A1	959	A	P-O5'	7.38	1.67	1.59
3	A1	1257	A	N7-C5	7.38	1.43	1.39
3	A1	1394	A	N3-C4	7.38	1.39	1.34
25	BB	119	A	N7-C5	-7.38	1.34	1.39
25	BB	2125	G	C6-N1	7.38	1.44	1.39
3	A1	491	G	C2-N2	-7.38	1.27	1.34
1	AP	41	U	P-O5'	-7.38	1.52	1.59
3	A1	1233	G	N9-C8	-7.38	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1249	C	N1-C6	7.38	1.41	1.37
25	BB	86	G	N7-C5	7.38	1.43	1.39
25	BB	2291	U	C2'-O2'	7.38	1.51	1.41
3	A1	199	A	C5-C4	-7.38	1.33	1.38
3	A1	999	C	N1-C6	7.38	1.41	1.37
25	BB	484	C	C4-N4	-7.38	1.27	1.33
25	BB	599	A	N1-C2	-7.38	1.27	1.34
25	BB	2785	C	C4-C5	-7.38	1.37	1.43
3	A1	109	A	C6-N6	-7.38	1.28	1.33
3	A1	293	G	C2-N2	-7.38	1.27	1.34
25	BB	667	U	N1-C2	7.38	1.45	1.38
25	BB	1523	U	C2-N3	-7.38	1.32	1.37
25	BB	553	G	N3-C4	7.38	1.40	1.35
25	BB	992	C	C3'-C2'	7.38	1.61	1.52
25	BB	2212	A	C6-N6	-7.38	1.28	1.33
3	A1	337	G	C6-N1	-7.37	1.34	1.39
3	A1	659	U	C4'-C3'	7.37	1.61	1.53
10	AI	49	GLY	N-CA	7.37	1.57	1.46
25	BB	351	C	C4'-O4'	-7.37	1.35	1.45
25	BB	956	G	C2-N3	7.37	1.38	1.32
25	BB	1948	G	C2-N3	7.37	1.38	1.32
25	BB	2408	U	O3'-P	-7.37	1.52	1.61
25	BB	2828	G	N7-C5	7.37	1.43	1.39
25	BB	1172	C	C4'-C3'	7.37	1.61	1.53
25	BB	1607	C	C4-N4	-7.37	1.27	1.33
25	BB	2382	G	N9-C8	7.37	1.43	1.37
3	A1	1088	G	N7-C5	-7.37	1.34	1.39
3	A1	1129	C	P-O5'	7.37	1.67	1.59
24	BA	57	A	N1-C2	-7.37	1.27	1.34
25	BB	674	G	C2-N2	-7.37	1.27	1.34
25	BB	130	C	N3-C4	-7.37	1.28	1.33
25	BB	1256	G	N7-C5	7.37	1.43	1.39
25	BB	2742	G	O3'-P	-7.37	1.52	1.61
3	A1	1218	C	O3'-P	-7.37	1.52	1.61
25	BB	195	A	N1-C2	7.37	1.41	1.34
25	BB	1576	U	C2-O2	7.37	1.28	1.22
3	A1	303	A	N1-C2	-7.37	1.27	1.34
3	A1	736	C	C4'-O4'	-7.37	1.35	1.45
3	A1	675	A	N9-C4	-7.36	1.33	1.37
3	A1	752	G	C8-N7	-7.36	1.26	1.30
25	BB	190	A	N7-C5	7.36	1.43	1.39
25	BB	377	G	N7-C5	7.36	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1649	G	N3-C4	7.36	1.40	1.35
25	BB	1650	A	N9-C4	7.36	1.42	1.37
25	BB	2086	U	C4-O4	-7.36	1.17	1.23
25	BB	2611	C	C2-N3	-7.36	1.29	1.35
25	BB	2654	A	C6-N6	-7.36	1.28	1.33
3	A1	270	A	N9-C4	7.36	1.42	1.37
25	BB	1339	G	N9-C8	7.36	1.43	1.37
25	BB	2399	G	C2-N2	-7.36	1.27	1.34
25	BB	2485	G	C6-N1	-7.36	1.34	1.39
25	BB	2676	C	P-O5'	7.36	1.67	1.59
25	BB	2693	G	O3'-P	-7.36	1.52	1.61
3	A1	151	A	C5-C4	-7.36	1.33	1.38
3	A1	1314	C	C4-N4	-7.36	1.27	1.33
25	BB	1904	G	C5-C6	7.36	1.49	1.42
25	BB	2177	C	N3-C4	-7.36	1.28	1.33
3	A1	1510	C	N3-C4	-7.36	1.28	1.33
25	BB	611	C	C4-N4	-7.36	1.27	1.33
25	BB	2129	C	C4-N4	-7.36	1.27	1.33
3	A1	1219	A	P-O5'	7.36	1.67	1.59
25	BB	2508	G	O3'-P	-7.36	1.52	1.61
25	BB	1681	G	N9-C8	7.36	1.43	1.37
25	BB	1857	G	C5-C6	7.36	1.49	1.42
25	BB	2580	U	C5-C6	7.36	1.40	1.34
25	BB	2895	G	C2-N2	-7.36	1.27	1.34
25	BB	762	U	C2-N3	-7.35	1.32	1.37
25	BB	899	A	N3-C4	7.35	1.39	1.34
25	BB	2798	U	N3-C4	7.35	1.45	1.38
25	BB	835	C	P-O5'	7.35	1.67	1.59
25	BB	1206	G	N1-C2	-7.35	1.31	1.37
25	BB	1593	A	N1-C2	-7.35	1.27	1.34
3	A1	1156	G	C2-N2	-7.35	1.27	1.34
3	A1	298	A	N9-C8	-7.35	1.31	1.37
25	BB	731	C	C4-N4	-7.35	1.27	1.33
25	BB	2421	G	N9-C8	7.35	1.43	1.37
3	A1	444	G	C2'-C1'	7.35	1.61	1.53
3	A1	993	G	C2-N3	7.35	1.38	1.32
25	BB	1170	C	N1-C6	7.35	1.41	1.37
25	BB	1794	A	N7-C5	7.35	1.43	1.39
25	BB	2024	G	N3-C4	7.35	1.40	1.35
25	BB	2774	C	N3-C4	-7.35	1.28	1.33
25	BB	194	G	C6-N1	-7.35	1.34	1.39
25	BB	1601	G	N1-C2	-7.35	1.31	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1795	C	C4-C5	-7.35	1.37	1.43
25	BB	2375	G	C3'-C2'	7.35	1.61	1.52
25	BB	11	C	C5-C6	-7.34	1.28	1.34
25	BB	1003	G	P-O5'	-7.34	1.52	1.59
25	BB	1401	G	N9-C8	-7.34	1.32	1.37
25	BB	2826	A	N1-C2	-7.34	1.27	1.34
3	A1	1093	A	P-O5'	-7.34	1.52	1.59
25	BB	919	U	P-O5'	-7.34	1.52	1.59
3	A1	77	A	C2'-O2'	7.34	1.51	1.41
3	A1	724	G	C6-N1	-7.34	1.34	1.39
3	A1	779	C	C4-N4	-7.34	1.27	1.33
3	A1	1139	G	C2-N2	-7.34	1.27	1.34
3	A1	1184	G	C3'-C2'	-7.34	1.44	1.52
3	A1	1297	G	N1-C2	-7.34	1.31	1.37
25	BB	1661	G	N3-C4	7.34	1.40	1.35
25	BB	1883	U	N1-C2	7.34	1.45	1.38
25	BB	2121	G	N1-C2	-7.34	1.31	1.37
25	BB	2587	A	N9-C4	7.34	1.42	1.37
1	AE	44	A	O3'-P	-7.34	1.52	1.61
3	A1	124	C	C4-N4	-7.34	1.27	1.33
3	A1	1251	A	C6-N6	-7.34	1.28	1.33
25	BB	1321	A	N3-C4	7.34	1.39	1.34
25	BB	1377	G	C6-N1	7.34	1.44	1.39
25	BB	2717	C	C3'-C2'	7.34	1.61	1.52
3	A1	251	G	N7-C5	7.34	1.43	1.39
3	A1	1367	C	C5-C6	7.34	1.40	1.34
25	BB	2507	C	N3-C4	-7.34	1.28	1.33
25	BB	2158	A	N3-C4	7.34	1.39	1.34
3	A1	315	A	C6-N1	-7.33	1.30	1.35
25	BB	1167	C	P-O5'	-7.33	1.52	1.59
25	BB	2513	A	N7-C5	7.33	1.43	1.39
3	A1	215	C	N1-C6	7.33	1.41	1.37
3	A1	1354	U	C3'-C2'	7.33	1.61	1.52
25	BB	2174	C	N3-C4	-7.33	1.28	1.33
25	BB	2397	G	C6-N1	-7.33	1.34	1.39
3	A1	558	G	C4'-O4'	-7.33	1.36	1.45
25	BB	557	C	N3-C4	-7.33	1.28	1.33
25	BB	713	G	N9-C8	7.33	1.43	1.37
25	BB	2382	G	C5-C4	7.33	1.43	1.38
25	BB	2682	A	N7-C5	7.33	1.43	1.39
25	BB	1914	C	C4-C5	-7.33	1.37	1.43
3	A1	605	U	C5-C6	7.33	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	417	C	P-O5'	-7.33	1.52	1.59
25	BB	521	U	O3'-P	-7.33	1.52	1.61
25	BB	2208	C	C5-C6	7.33	1.40	1.34
25	BB	1847	A	N3-C4	7.33	1.39	1.34
3	A1	1208	C	N3-C4	-7.33	1.28	1.33
25	BB	482	A	N3-C4	7.33	1.39	1.34
25	BB	625	G	N3-C4	7.33	1.40	1.35
25	BB	2252	G	P-O5'	7.33	1.67	1.59
25	BB	993	G	N3-C4	7.32	1.40	1.35
25	BB	1190	G	C5-C4	-7.32	1.33	1.38
25	BB	1365	A	C6-N1	-7.32	1.30	1.35
25	BB	2047	C	N1-C2	7.32	1.47	1.40
25	BB	2445	G	C3'-C2'	7.32	1.61	1.52
3	A1	1274	A	N1-C2	7.32	1.41	1.34
25	BB	2419	U	C4-C5	7.32	1.50	1.43
25	BB	2438	U	P-O5'	-7.32	1.52	1.59
3	A1	327	A	N3-C4	7.32	1.39	1.34
3	A1	1182	G	C2-N2	-7.32	1.27	1.34
3	A1	1236	A	C8-N7	-7.32	1.26	1.31
25	BB	735	A	N7-C5	7.32	1.43	1.39
3	A1	866	C	N1-C6	7.32	1.41	1.37
25	BB	1350	C	C5'-C4'	7.32	1.60	1.51
25	BB	2710	C	N1-C6	7.32	1.41	1.37
25	BB	2766	A	N9-C4	7.32	1.42	1.37
1	AE	46	G	N1-C2	-7.32	1.31	1.37
3	A1	1260	G	C6-N1	-7.32	1.34	1.39
24	BA	91	C	N3-C4	-7.32	1.28	1.33
25	BB	255	A	C5-C4	-7.32	1.33	1.38
25	BB	1958	C	C4'-O4'	-7.32	1.36	1.45
25	BB	2478	A	C6-N6	-7.32	1.28	1.33
3	A1	204	G	N9-C4	7.32	1.43	1.38
3	A1	759	A	N1-C2	-7.32	1.27	1.34
25	BB	60	G	N7-C5	7.32	1.43	1.39
25	BB	421	C	C5'-C4'	7.32	1.60	1.51
25	BB	953	G	N7-C5	7.32	1.43	1.39
24	BA	16	G	C2-N2	-7.31	1.27	1.34
25	BB	197	A	N7-C5	7.31	1.43	1.39
3	A1	373	A	P-O5'	7.31	1.67	1.59
3	A1	928	G	C5-C6	7.31	1.49	1.42
3	A1	1203	C	C5-C6	7.31	1.40	1.34
3	A1	1351	U	C2-N3	7.31	1.42	1.37
25	BB	130	C	C4-N4	-7.31	1.27	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1039	G	C5-C6	7.31	1.49	1.42
25	BB	2184	A	C6-N6	-7.31	1.28	1.33
3	A1	59	A	C6-N6	-7.31	1.28	1.33
3	A1	300	A	C4'-O4'	-7.31	1.36	1.45
3	A1	655	A	O3'-P	-7.31	1.52	1.61
25	BB	1661	G	O3'-P	7.31	1.70	1.61
25	BB	2352	A	P-O5'	7.31	1.67	1.59
3	A1	1233	G	N1-C2	-7.31	1.31	1.37
3	A1	1323	G	N3-C4	7.31	1.40	1.35
24	BA	62	C	C5-C6	7.31	1.40	1.34
25	BB	214	G	C2-N2	-7.31	1.27	1.34
25	BB	362	A	C6-N6	-7.31	1.28	1.33
25	BB	882	G	N7-C5	7.31	1.43	1.39
25	BB	1350	C	C4-N4	-7.31	1.27	1.33
25	BB	2421	G	N1-C2	-7.31	1.31	1.37
25	BB	2525	G	C5-C4	7.31	1.43	1.38
1	AE	66	A	C6-N1	-7.30	1.30	1.35
3	A1	70	U	C3'-O3'	-7.30	1.31	1.42
25	BB	644	A	N3-C4	7.30	1.39	1.34
25	BB	1358	G	N7-C5	7.30	1.43	1.39
25	BB	1691	C	N3-C4	-7.30	1.28	1.33
25	BB	1925	C	C2-N3	7.30	1.41	1.35
3	A1	346	G	C6-N1	-7.30	1.34	1.39
3	A1	440	C	P-O5'	7.30	1.67	1.59
3	A1	573	A	C4'-O4'	-7.30	1.36	1.45
3	A1	807	A	N3-C4	7.30	1.39	1.34
3	A1	1328	C	C4-N4	-7.30	1.27	1.33
3	A1	1358	U	N1-C2	7.30	1.45	1.38
25	BB	561	G	C6-N1	-7.30	1.34	1.39
25	BB	1912	A	C5-C6	7.30	1.47	1.41
3	A1	1270	G	C2-N2	-7.30	1.27	1.34
25	BB	1450	G	N3-C4	7.30	1.40	1.35
3	A1	1301	U	C5-C6	7.30	1.40	1.34
3	A1	1485	U	N1-C6	7.30	1.44	1.38
25	BB	324	A	C6-N6	-7.30	1.28	1.33
25	BB	955	U	C3'-C2'	7.30	1.60	1.52
25	BB	2762	C	N1-C2	7.30	1.47	1.40
3	A1	378	G	P-O5'	-7.29	1.52	1.59
25	BB	132	G	N7-C5	7.29	1.43	1.39
3	A1	338	A	C5'-C4'	7.29	1.60	1.51
25	BB	205	G	C5-C6	7.29	1.49	1.42
25	BB	2732	G	C2-N2	-7.29	1.27	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1004	U	C4'-C3'	7.29	1.61	1.53
3	A1	339	C	O3'-P	-7.29	1.52	1.61
25	BB	2763	G	N1-C2	-7.29	1.31	1.37
3	A1	48	C	C5'-C4'	7.29	1.60	1.51
3	A1	702	A	C4'-O4'	-7.29	1.36	1.45
3	A1	937	A	C6-N6	-7.29	1.28	1.33
24	BA	56	G	N9-C8	7.29	1.43	1.37
25	BB	862	G	N9-C8	7.29	1.43	1.37
3	A1	939	G	C6-N1	-7.29	1.34	1.39
25	BB	556	A	N9-C4	7.29	1.42	1.37
25	BB	1380	G	C6-N1	-7.29	1.34	1.39
3	A1	987	G	P-O5'	7.29	1.67	1.59
3	A1	1239	A	N1-C2	-7.29	1.27	1.34
25	BB	1426	G	P-O5'	-7.29	1.52	1.59
25	BB	1606	C	P-O5'	7.29	1.67	1.59
3	A1	893	C	C1'-N1	7.28	1.59	1.48
25	BB	1280	G	N7-C5	7.28	1.43	1.39
25	BB	1437	C	N1-C6	7.28	1.41	1.37
25	BB	1660	G	N3-C4	7.28	1.40	1.35
25	BB	2068	U	O3'-P	-7.28	1.52	1.61
25	BB	2243	U	C4-O4	7.28	1.29	1.23
25	BB	2542	A	N1-C2	-7.28	1.27	1.34
3	A1	258	G	C5-C6	7.28	1.49	1.42
3	A1	1337	G	C6-N1	-7.28	1.34	1.39
25	BB	1737	G	C2-N2	-7.28	1.27	1.34
3	A1	192	A	N3-C4	7.28	1.39	1.34
3	A1	259	G	C3'-C2'	7.28	1.60	1.52
3	A1	976	G	N3-C4	7.28	1.40	1.35
3	A1	1400	C	N3-C4	-7.28	1.28	1.33
25	BB	962	G	C6-O6	-7.28	1.17	1.24
25	BB	2246	G	P-O5'	7.28	1.67	1.59
3	A1	128	G	N3-C4	7.28	1.40	1.35
3	A1	1342	C	P-O5'	-7.28	1.52	1.59
9	AH	88	ARG	CZ-NH2	-7.28	1.23	1.33
25	BB	2591	C	C4-C5	7.28	1.48	1.43
3	A1	1377	A	C2'-C1'	-7.28	1.45	1.53
25	BB	424	G	N1-C2	-7.28	1.31	1.37
25	BB	1171	G	C2-N2	-7.28	1.27	1.34
25	BB	1913	A	N9-C8	-7.28	1.31	1.37
25	BB	2039	U	C4'-O4'	-7.28	1.36	1.45
25	BB	2392	A	C6-N1	-7.28	1.30	1.35
1	AA	56	C	N1-C6	-7.27	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	750	A	O3'-P	-7.27	1.52	1.61
3	A1	20	U	O3'-P	-7.27	1.52	1.61
3	A1	786	G	N9-C8	-7.27	1.32	1.37
3	A1	1031	C	C4-N4	-7.27	1.27	1.33
25	BB	1205	A	N3-C4	7.27	1.39	1.34
25	BB	588	U	N1-C2	7.27	1.45	1.38
3	A1	1170	A	C5-C6	7.27	1.47	1.41
25	BB	1997	C	N3-C4	-7.27	1.28	1.33
25	BB	2335	A	C6-N6	-7.27	1.28	1.33
25	BB	2577	A	C6-N6	-7.27	1.28	1.33
25	BB	2742	G	C6-O6	-7.27	1.17	1.24
1	AE	39	U	C2-O2	7.27	1.28	1.22
3	A1	338	A	C8-N7	7.27	1.36	1.31
3	A1	575	G	C6-O6	7.27	1.30	1.24
3	A1	1223	C	C5-C6	7.27	1.40	1.34
25	BB	265	A	C6-N1	-7.27	1.30	1.35
25	BB	996	A	C2-N3	-7.27	1.27	1.33
25	BB	1416	G	C5-C6	7.27	1.49	1.42
25	BB	1023	U	O3'-P	-7.27	1.52	1.61
25	BB	1344	U	C4'-C3'	7.27	1.61	1.53
25	BB	1749	A	N3-C4	7.27	1.39	1.34
3	A1	1182	G	N9-C4	7.26	1.43	1.38
25	BB	595	C	C5-C6	7.26	1.40	1.34
3	A1	577	G	C6-N1	-7.26	1.34	1.39
3	A1	601	G	N7-C5	-7.26	1.34	1.39
3	A1	1430	A	N9-C4	7.26	1.42	1.37
25	BB	1314	C	P-O5'	7.26	1.67	1.59
25	BB	1992	G	O3'-P	-7.26	1.52	1.61
25	BB	2465	C	C4-C5	-7.26	1.37	1.43
25	BB	2515	C	N1-C6	-7.26	1.32	1.37
24	BA	115	A	N3-C4	7.26	1.39	1.34
25	BB	402	A	N3-C4	7.26	1.39	1.34
25	BB	508	A	C6-N1	-7.26	1.30	1.35
25	BB	802	A	C5-C6	7.26	1.47	1.41
25	BB	1447	C	C4'-O4'	-7.26	1.36	1.45
25	BB	1586	A	N9-C4	-7.26	1.33	1.37
25	BB	2392	A	N9-C4	7.26	1.42	1.37
25	BB	2457	U	C5-C6	7.26	1.40	1.34
3	A1	348	G	O3'-P	-7.26	1.52	1.61
3	A1	1343	G	N7-C5	7.26	1.43	1.39
25	BB	266	G	N9-C8	7.26	1.43	1.37
25	BB	1264	A	C5-C4	-7.26	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1876	A	C6-N1	-7.25	1.30	1.35
25	BB	2154	A	C6-N6	-7.25	1.28	1.33
3	A1	33	A	N9-C4	7.25	1.42	1.37
3	A1	548	G	N9-C4	7.25	1.43	1.38
3	A1	889	A	P-O5'	7.25	1.67	1.59
3	A1	1459	G	N3-C4	7.25	1.40	1.35
25	BB	618	G	N3-C4	7.25	1.40	1.35
25	BB	691	C	N1-C6	7.25	1.41	1.37
3	A1	1447	A	N7-C5	7.25	1.43	1.39
25	BB	416	U	N3-C4	-7.25	1.31	1.38
25	BB	2217	G	C2-N2	-7.25	1.27	1.34
25	BB	2459	A	N9-C8	7.25	1.43	1.37
25	BB	2784	U	N1-C6	7.25	1.44	1.38
3	A1	990	C	C4-N4	-7.25	1.27	1.33
3	A1	1153	G	N1-C2	-7.25	1.31	1.37
25	BB	312	G	N7-C5	7.25	1.43	1.39
25	BB	423	A	C6-N1	-7.25	1.30	1.35
25	BB	600	G	O3'-P	-7.25	1.52	1.61
25	BB	1448	G	N7-C5	7.25	1.43	1.39
25	BB	2086	U	C3'-C2'	7.25	1.60	1.52
25	BB	2323	G	C6-N1	-7.25	1.34	1.39
3	A1	202	G	N9-C8	7.25	1.43	1.37
3	A1	509	A	O3'-P	-7.25	1.52	1.61
3	A1	587	G	C8-N7	7.25	1.35	1.30
3	A1	930	C	P-O5'	7.25	1.67	1.59
3	A1	1327	C	C2-N3	7.25	1.41	1.35
3	A1	1421	G	N3-C4	7.25	1.40	1.35
25	BB	482	A	N7-C5	7.25	1.43	1.39
25	BB	1052	C	P-O5'	-7.25	1.52	1.59
25	BB	1252	G	C2-N2	-7.25	1.27	1.34
25	BB	1253	A	N3-C4	7.25	1.39	1.34
3	A1	1480	A	C5'-C4'	7.25	1.60	1.51
25	BB	598	U	C4-O4	-7.25	1.17	1.23
25	BB	2706	A	N7-C5	7.25	1.43	1.39
24	BA	114	C	N3-C4	-7.24	1.28	1.33
25	BB	251	A	C6-N1	-7.24	1.30	1.35
25	BB	998	C	C3'-C2'	7.24	1.60	1.52
25	BB	1054	A	C5-C6	7.24	1.47	1.41
25	BB	1302	A	P-O5'	-7.24	1.52	1.59
25	BB	1615	C	C4-N4	-7.24	1.27	1.33
25	BB	2229	U	C5-C6	7.24	1.40	1.34
25	BB	1792	G	C6-N1	-7.24	1.34	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	55	A	P-O5'	-7.24	1.52	1.59
3	A1	1032	G	C6-N1	-7.24	1.34	1.39
25	BB	1030	C	N3-C4	-7.24	1.28	1.33
25	BB	1380	G	N3-C4	7.24	1.40	1.35
25	BB	2022	U	C3'-C2'	7.24	1.60	1.52
25	BB	2421	G	C8-N7	-7.24	1.26	1.30
25	BB	2497	A	N3-C4	7.24	1.39	1.34
25	BB	2549	G	C2-N2	-7.24	1.27	1.34
24	BA	112	G	C5-C4	-7.24	1.33	1.38
24	BA	118	C	C2'-O2'	7.24	1.51	1.41
25	BB	345	A	N3-C4	7.24	1.39	1.34
25	BB	900	A	N7-C5	7.24	1.43	1.39
25	BB	1342	A	O3'-P	-7.24	1.52	1.61
25	BB	1882	U	C4-C5	7.24	1.50	1.43
25	BB	1908	C	O3'-P	-7.24	1.52	1.61
3	A1	113	G	C2-N2	-7.24	1.27	1.34
3	A1	232	G	C2-N2	-7.24	1.27	1.34
3	A1	1409	C	N3-C4	-7.24	1.28	1.33
25	BB	115	C	N3-C4	7.24	1.39	1.33
25	BB	269	C	N3-C4	-7.24	1.28	1.33
25	BB	510	C	N1-C6	7.24	1.41	1.37
25	BB	892	A	C5-C4	-7.24	1.33	1.38
25	BB	2597	G	N1-C2	-7.24	1.31	1.37
37	BN	220	ARG	CZ-NH2	-7.24	1.23	1.33
1	AE	58	A	N9-C4	-7.23	1.33	1.37
24	BA	75	G	N3-C4	7.23	1.40	1.35
1	AA	57	G	N3-C4	-7.23	1.30	1.35
3	A1	1329	A	N7-C5	7.23	1.43	1.39
25	BB	1584	U	P-O5'	-7.23	1.52	1.59
25	BB	2114	A	C6-N6	-7.23	1.28	1.33
25	BB	75	G	C6-N1	-7.23	1.34	1.39
25	BB	2116	G	C2-N2	-7.23	1.27	1.34
3	A1	1029	U	N3-C4	-7.23	1.31	1.38
3	A1	1248	A	C5'-C4'	7.23	1.60	1.51
25	BB	2183	A	N7-C5	7.23	1.43	1.39
25	BB	710	U	C4-O4	-7.23	1.17	1.23
25	BB	832	U	N3-C4	-7.23	1.31	1.38
25	BB	1858	A	C6-N1	-7.23	1.30	1.35
25	BB	1275	A	N7-C5	7.23	1.43	1.39
25	BB	1562	U	N1-C2	7.23	1.45	1.38
25	BB	1763	G	N7-C5	7.23	1.43	1.39
25	BB	2764	A	N9-C8	7.23	1.43	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	701	G	C6-N1	-7.22	1.34	1.39
25	BB	1198	U	C5-C6	7.22	1.40	1.34
25	BB	1743	G	C6-N1	-7.22	1.34	1.39
25	BB	2113	U	C5'-C4'	7.22	1.60	1.51
1	AP	46	G	C5-C4	-7.22	1.33	1.38
3	A1	923	A	C5-C4	-7.22	1.33	1.38
25	BB	2603	G	C8-N7	-7.22	1.26	1.30
3	A1	610	U	C4-O4	-7.22	1.17	1.23
25	BB	238	C	O3'-P	-7.22	1.52	1.61
1	AE	76	A	N7-C5	7.22	1.43	1.39
3	A1	954	G	C2-N2	-7.22	1.27	1.34
24	BA	6	G	N1-C2	-7.22	1.31	1.37
25	BB	347	A	N7-C5	7.22	1.43	1.39
25	BB	1447	C	O5'-C5'	-7.22	1.31	1.42
3	A1	842	U	C5-C6	7.22	1.40	1.34
3	A1	867	G	C2-N2	-7.22	1.27	1.34
25	BB	1569	A	C5'-C4'	7.22	1.60	1.51
25	BB	2437	G	C2-N2	-7.22	1.27	1.34
3	A1	1229	A	C4'-O4'	-7.22	1.36	1.45
25	BB	473	G	C3'-C2'	7.22	1.60	1.52
25	BB	708	G	C5'-C4'	7.22	1.60	1.51
25	BB	1188	U	P-O5'	-7.22	1.52	1.59
25	BB	2520	C	O3'-P	-7.22	1.52	1.61
25	BB	2540	C	C4-N4	-7.22	1.27	1.33
25	BB	2175	C	C4-N4	-7.21	1.27	1.33
25	BB	2795	C	C5'-C4'	7.21	1.60	1.51
3	A1	778	G	C8-N7	7.21	1.35	1.30
3	A1	1401	G	C2-N2	-7.21	1.27	1.34
25	BB	1768	C	N3-C4	-7.21	1.28	1.33
25	BB	2451	A	N9-C4	7.21	1.42	1.37
25	BB	2669	G	N3-C4	7.21	1.40	1.35
1	AA	2	C	C4-N4	-7.21	1.27	1.33
3	A1	254	G	N9-C8	-7.21	1.32	1.37
3	A1	725	G	C5-C6	7.21	1.49	1.42
3	A1	1533	C	C5'-C4'	7.21	1.60	1.51
25	BB	897	C	P-O5'	7.21	1.67	1.59
25	BB	2138	G	O3'-P	-7.21	1.52	1.61
25	BB	2376	A	C8-N7	-7.21	1.26	1.31
25	BB	165	A	C6-N1	-7.21	1.30	1.35
25	BB	271	G	N7-C5	-7.21	1.34	1.39
25	BB	1494	A	C3'-C2'	7.21	1.60	1.52
3	A1	271	C	C4'-O4'	-7.21	1.36	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	107	G	P-O5'	-7.21	1.52	1.59
25	BB	211	C	N1-C6	7.21	1.41	1.37
25	BB	1044	C	N3-C4	-7.21	1.28	1.33
25	BB	2486	C	C4-N4	-7.21	1.27	1.33
25	BB	2522	U	C5'-C4'	7.21	1.59	1.51
3	A1	480	U	N3-C4	-7.21	1.31	1.38
3	A1	1120	C	P-O5'	7.21	1.67	1.59
25	BB	1623	G	N1-C2	-7.21	1.31	1.37
3	A1	734	G	C2-N2	-7.20	1.27	1.34
25	BB	34	U	N3-C4	-7.20	1.31	1.38
25	BB	1317	G	C4'-C3'	7.20	1.61	1.53
25	BB	1366	A	C2'-O2'	7.20	1.51	1.41
25	BB	2057	G	C5'-C4'	7.20	1.59	1.51
3	A1	904	U	C2'-C1'	-7.20	1.45	1.53
3	A1	1279	G	C5-C6	7.20	1.49	1.42
25	BB	129	C	C2'-O2'	7.20	1.51	1.41
25	BB	2076	U	P-O5'	7.20	1.67	1.59
25	BB	2862	G	O4'-C1'	7.20	1.51	1.41
3	A1	504	C	C5-C6	7.20	1.40	1.34
3	A1	1022	A	N7-C5	7.20	1.43	1.39
3	A1	1089	G	C5-C4	-7.20	1.33	1.38
3	A1	1163	A	C6-N1	-7.20	1.30	1.35
3	A1	1201	A	N9-C4	-7.20	1.33	1.37
3	A1	1226	C	C4-C5	-7.20	1.37	1.43
3	A1	1435	G	N1-C2	-7.20	1.31	1.37
24	BA	99	A	N9-C4	7.20	1.42	1.37
25	BB	830	G	C8-N7	-7.20	1.26	1.30
25	BB	1120	G	C2-N2	-7.20	1.27	1.34
3	A1	547	A	P-O5'	7.20	1.67	1.59
25	BB	1068	G	N3-C4	7.20	1.40	1.35
25	BB	1541	C	C4-N4	-7.20	1.27	1.33
3	A1	939	G	N3-C4	-7.19	1.30	1.35
11	AJ	39	ARG	CZ-NH2	-7.19	1.23	1.33
25	BB	2265	U	C5-C6	7.19	1.40	1.34
1	AE	42	G	N9-C4	7.19	1.43	1.38
3	A1	584	G	C2-N2	-7.19	1.27	1.34
3	A1	1353	G	C8-N7	-7.19	1.26	1.30
25	BB	203	A	N9-C8	-7.19	1.31	1.37
25	BB	555	G	N9-C8	-7.19	1.32	1.37
25	BB	880	G	C2-N2	-7.19	1.27	1.34
25	BB	1331	G	C2-N2	-7.19	1.27	1.34
25	BB	1738	G	N9-C4	7.19	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1773	A	C5-C4	-7.19	1.33	1.38
25	BB	1788	C	C4-N4	-7.19	1.27	1.33
25	BB	2001	C	C4-N4	-7.19	1.27	1.33
3	A1	160	A	C3'-C2'	7.19	1.60	1.52
25	BB	678	C	C5'-C4'	7.19	1.59	1.51
25	BB	831	G	N7-C5	7.19	1.43	1.39
25	BB	2216	G	C2'-C1'	7.19	1.61	1.53
1	AE	61	C	C4-C5	-7.19	1.37	1.43
3	A1	547	A	C6-N1	-7.19	1.30	1.35
3	A1	1517	G	P-O5'	7.19	1.67	1.59
25	BB	1525	A	N9-C4	7.19	1.42	1.37
25	BB	2217	G	C8-N7	7.19	1.35	1.30
3	A1	1492	A	N7-C5	7.19	1.43	1.39
25	BB	130	C	N1-C6	7.19	1.41	1.37
25	BB	352	A	C8-N7	7.19	1.36	1.31
25	BB	1276	A	N3-C4	7.19	1.39	1.34
25	BB	1616	A	C4'-O4'	-7.19	1.36	1.45
1	AP	25	C	N3-C4	-7.18	1.28	1.33
25	BB	718	A	P-O5'	-7.18	1.52	1.59
25	BB	2230	G	N9-C4	7.18	1.43	1.38
25	BB	937	C	N1-C6	7.18	1.41	1.37
25	BB	999	U	C4'-O4'	-7.18	1.36	1.45
25	BB	1496	A	N7-C5	7.18	1.43	1.39
3	A1	758	C	C4-N4	-7.18	1.27	1.33
24	BA	30	C	C2'-C1'	7.18	1.61	1.53
25	BB	1619	G	C3'-C2'	7.18	1.60	1.52
25	BB	1724	G	N3-C4	7.18	1.40	1.35
25	BB	2165	C	N1-C6	-7.18	1.32	1.37
25	BB	561	G	C5'-C4'	7.18	1.59	1.51
25	BB	826	U	C4-O4	-7.18	1.18	1.23
25	BB	1187	G	C8-N7	-7.18	1.26	1.30
25	BB	1475	G	N1-C2	-7.18	1.32	1.37
25	BB	1729	U	N3-C4	-7.18	1.31	1.38
25	BB	1849	G	N1-C2	-7.18	1.32	1.37
25	BB	1962	C	C5'-C4'	7.18	1.59	1.51
25	BB	291	G	N3-C4	7.18	1.40	1.35
25	BB	836	G	C3'-C2'	7.18	1.60	1.52
25	BB	2146	C	O4'-C1'	7.18	1.50	1.41
1	AA	56	C	C2-N3	-7.17	1.30	1.35
3	A1	205	A	C6-N1	-7.17	1.30	1.35
3	A1	328	C	C4-N4	-7.17	1.27	1.33
24	BA	62	C	C4-N4	-7.17	1.27	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	140	C	P-O5'	-7.17	1.52	1.59
25	BB	830	G	C4'-O4'	-7.17	1.36	1.45
25	BB	1645	G	N9-C8	-7.17	1.32	1.37
25	BB	2810	A	C6-N6	-7.17	1.28	1.33
25	BB	2827	C	N1-C6	7.17	1.41	1.37
1	AA	34	G	C5'-C4'	7.17	1.59	1.51
25	BB	38	A	C6-N1	-7.17	1.30	1.35
25	BB	203	A	C4'-C3'	7.17	1.61	1.53
25	BB	1106	G	C8-N7	7.17	1.35	1.30
25	BB	1966	A	C5-C6	7.17	1.47	1.41
25	BB	2831	G	N9-C8	-7.17	1.32	1.37
3	A1	247	G	N9-C4	-7.17	1.32	1.38
3	A1	257	G	C5-C6	7.17	1.49	1.42
3	A1	720	C	C3'-O3'	-7.17	1.32	1.42
3	A1	1373	G	C3'-C2'	7.17	1.60	1.52
25	BB	1236	G	P-O5'	7.17	1.67	1.59
1	AA	1	G	N9-C8	-7.17	1.32	1.37
3	A1	690	G	C6-N1	-7.17	1.34	1.39
25	BB	2555	U	C4-C5	7.17	1.50	1.43
1	AE	2	C	N3-C4	-7.17	1.28	1.33
3	A1	507	C	C2-N3	7.17	1.41	1.35
3	A1	556	C	N1-C6	-7.17	1.32	1.37
25	BB	1464	G	C2-N2	-7.17	1.27	1.34
25	BB	1744	A	C3'-C2'	7.17	1.60	1.52
25	BB	1947	C	C4'-O4'	-7.17	1.36	1.45
3	A1	1460	C	C2-N3	-7.17	1.30	1.35
25	BB	1285	A	O3'-P	-7.17	1.52	1.61
25	BB	2236	U	N1-C2	7.17	1.45	1.38
25	BB	2319	G	C6-N1	-7.17	1.34	1.39
3	A1	645	G	C8-N7	-7.16	1.26	1.30
3	A1	784	A	C3'-C2'	7.16	1.60	1.52
25	BB	265	A	N7-C5	7.16	1.43	1.39
25	BB	1462	C	C4-N4	-7.16	1.27	1.33
32	BI	56	SER	CA-CB	7.16	1.63	1.52
3	A1	315	A	C2'-C1'	-7.16	1.45	1.53
25	BB	217	A	O3'-P	-7.16	1.52	1.61
25	BB	1662	U	C4-C5	7.16	1.50	1.43
25	BB	2443	C	N3-C4	-7.16	1.28	1.33
25	BB	2566	A	N7-C5	7.16	1.43	1.39
1	AA	44	A	P-O5'	7.16	1.67	1.59
3	A1	210	C	N3-C4	-7.16	1.28	1.33
3	A1	317	U	C5'-C4'	7.16	1.59	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1436	U	O3'-P	-7.16	1.52	1.61
4	AB	212	TYR	CG-CD1	7.16	1.48	1.39
24	BA	8	C	C4-N4	-7.16	1.27	1.33
3	A1	514	C	O3'-P	-7.16	1.52	1.61
1	AP	65	G	C8-N7	-7.15	1.26	1.30
3	A1	86	G	C5'-C4'	7.15	1.59	1.51
1	AE	71	G	C6-N1	-7.15	1.34	1.39
3	A1	292	G	C5-C4	7.15	1.43	1.38
25	BB	257	C	C4-C5	-7.15	1.37	1.43
25	BB	394	C	P-O5'	7.15	1.67	1.59
25	BB	635	C	N1-C2	7.15	1.47	1.40
25	BB	695	G	C2-N2	-7.15	1.27	1.34
25	BB	1356	G	C5-C4	7.15	1.43	1.38
25	BB	1370	C	C5'-C4'	7.15	1.59	1.51
24	BA	77	U	C4-O4	-7.15	1.18	1.23
25	BB	1739	A	C6-N1	-7.15	1.30	1.35
1	AE	74	C	N1-C6	7.15	1.41	1.37
3	A1	838	G	N3-C4	7.15	1.40	1.35
3	A1	1244	G	C5-C4	-7.15	1.33	1.38
3	A1	1340	A	C5'-C4'	7.15	1.59	1.51
25	BB	473	G	C5-C4	-7.15	1.33	1.38
25	BB	1140	C	C4-C5	-7.15	1.37	1.43
25	BB	1891	G	N3-C4	7.15	1.40	1.35
25	BB	974	G	O3'-P	-7.15	1.52	1.61
25	BB	1239	G	N7-C5	7.15	1.43	1.39
1	AA	8	U	N3-C4	-7.14	1.32	1.38
3	A1	673	A	N9-C4	7.14	1.42	1.37
24	BA	37	C	N3-C4	-7.14	1.28	1.33
25	BB	277	G	C2-N2	-7.14	1.27	1.34
25	BB	448	U	C2'-O2'	7.14	1.50	1.41
25	BB	2336	A	N7-C5	7.14	1.43	1.39
3	A1	366	A	O3'-P	-7.14	1.52	1.61
25	BB	615	U	C4-O4	7.14	1.29	1.23
25	BB	1194	A	N9-C4	-7.14	1.33	1.37
3	A1	1398	A	C3'-C2'	7.14	1.60	1.52
25	BB	772	C	C4-N4	-7.14	1.27	1.33
25	BB	1637	A	C6-N1	-7.14	1.30	1.35
3	A1	359	G	C2-N2	-7.14	1.27	1.34
3	A1	905	U	C5-C6	7.14	1.40	1.34
25	BB	258	G	C6-N1	-7.14	1.34	1.39
25	BB	340	A	N7-C5	7.14	1.43	1.39
25	BB	502	A	C6-N1	-7.14	1.30	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1714	U	N1-C2	7.14	1.45	1.38
25	BB	2019	A	C4'-O4'	-7.14	1.36	1.45
25	BB	2433	A	C6-N6	-7.14	1.28	1.33
25	BB	2710	C	P-O5'	7.14	1.66	1.59
3	A1	623	C	C5'-C4'	7.14	1.59	1.51
1	AE	46	G	C4'-O4'	-7.14	1.36	1.45
3	A1	270	A	P-O5'	7.14	1.66	1.59
3	A1	515	G	N1-C2	-7.14	1.32	1.37
3	A1	745	G	C2-N2	-7.14	1.27	1.34
3	A1	1504	G	C2-N2	-7.14	1.27	1.34
25	BB	629	G	C2-N2	-7.14	1.27	1.34
25	BB	970	U	C2-N3	7.14	1.42	1.37
25	BB	1780	A	N3-C4	7.13	1.39	1.34
25	BB	2521	C	C4-C5	-7.13	1.37	1.43
3	A1	38	G	C5'-C4'	7.13	1.59	1.51
25	BB	2006	C	N3-C4	-7.13	1.28	1.33
3	A1	319	G	C6-N1	-7.13	1.34	1.39
3	A1	676	A	C2-N3	-7.13	1.27	1.33
3	A1	785	G	N3-C4	7.13	1.40	1.35
3	A1	934	C	C4-N4	-7.13	1.27	1.33
25	BB	920	A	C8-N7	-7.13	1.26	1.31
25	BB	2843	G	C2-N3	-7.13	1.27	1.32
25	BB	661	A	P-O5'	-7.13	1.52	1.59
25	BB	2099	U	O4'-C1'	7.13	1.50	1.41
3	A1	980	C	C5'-C4'	7.13	1.59	1.51
3	A1	985	C	N3-C4	-7.13	1.28	1.33
25	BB	1309	G	C8-N7	7.13	1.35	1.30
25	BB	1988	G	C5'-C4'	7.13	1.59	1.51
25	BB	2434	A	N9-C4	-7.13	1.33	1.37
25	BB	2656	U	C4-C5	7.13	1.50	1.43
25	BB	2819	G	C8-N7	-7.13	1.26	1.30
3	A1	609	A	N9-C8	-7.13	1.32	1.37
25	BB	443	A	C8-N7	-7.13	1.26	1.31
25	BB	505	A	C6-N1	-7.13	1.30	1.35
25	BB	843	G	C6-N1	-7.13	1.34	1.39
25	BB	1326	U	C3'-C2'	7.13	1.60	1.52
25	BB	1368	G	N1-C2	-7.13	1.32	1.37
25	BB	1510	G	N7-C5	7.13	1.43	1.39
25	BB	2864	G	C5'-C4'	7.13	1.59	1.51
3	A1	443	C	C4-N4	-7.12	1.27	1.33
25	BB	1218	G	N7-C5	7.12	1.43	1.39
25	BB	1792	G	N3-C4	7.12	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2389	G	N7-C5	7.12	1.43	1.39
39	BP	38	ARG	CD-NE	7.12	1.58	1.46
25	BB	486	C	C4-N4	-7.12	1.27	1.33
25	BB	609	A	C5-C4	7.12	1.43	1.38
25	BB	867	C	C5-C6	-7.12	1.28	1.34
25	BB	1432	G	C5-C4	-7.12	1.33	1.38
25	BB	1478	G	C5-C6	7.12	1.49	1.42
25	BB	2848	G	C6-O6	-7.12	1.17	1.24
3	A1	545	C	N1-C6	7.12	1.41	1.37
3	A1	1431	A	N7-C5	7.12	1.43	1.39
24	BA	63	C	N3-C4	-7.12	1.28	1.33
25	BB	2093	G	C6-O6	-7.12	1.17	1.24
25	BB	2281	A	O3'-P	-7.12	1.52	1.61
3	A1	235	C	C5-C6	7.12	1.40	1.34
24	BA	25	U	C2-N3	7.12	1.42	1.37
24	BA	113	C	C2'-O2'	7.12	1.50	1.41
3	A1	122	G	C8-N7	-7.12	1.26	1.30
3	A1	622	A	C5'-C4'	7.12	1.59	1.51
3	A1	54	C	C4-N4	-7.11	1.27	1.33
3	A1	973	G	C2-N3	7.11	1.38	1.32
3	A1	1203	C	C4'-O4'	-7.11	1.36	1.45
24	BA	22	U	C3'-C2'	7.11	1.60	1.52
25	BB	175	G	N3-C4	7.11	1.40	1.35
25	BB	656	G	C2-N2	-7.11	1.27	1.34
25	BB	1011	G	P-O5'	7.11	1.66	1.59
25	BB	1127	A	C5'-C4'	7.11	1.59	1.51
25	BB	2011	U	C3'-C2'	7.11	1.60	1.52
25	BB	2016	U	O3'-P	-7.11	1.52	1.61
25	BB	2486	C	C5'-C4'	7.11	1.59	1.51
25	BB	2526	G	C5'-C4'	7.11	1.59	1.51
3	A1	223	A	N9-C4	7.11	1.42	1.37
3	A1	938	A	C6-N1	-7.11	1.30	1.35
3	A1	1482	G	C2'-C1'	7.11	1.61	1.53
25	BB	1042	G	C5-C6	7.11	1.49	1.42
25	BB	1253	A	C6-N1	-7.11	1.30	1.35
25	BB	2659	G	C6-O6	-7.11	1.17	1.24
24	BA	76	G	N1-C2	-7.11	1.32	1.37
25	BB	1800	C	N1-C6	7.11	1.41	1.37
3	A1	494	G	O3'-P	-7.11	1.52	1.61
3	A1	877	G	C5'-C4'	7.11	1.59	1.51
3	A1	1108	G	C8-N7	7.11	1.35	1.30
3	A1	1355	G	C4'-C3'	7.11	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1434	A	N3-C4	7.11	1.39	1.34
25	BB	278	A	C5-C4	-7.11	1.33	1.38
25	BB	332	A	N7-C5	-7.11	1.34	1.39
25	BB	1069	A	C8-N7	-7.11	1.26	1.31
3	A1	313	A	P-O5'	-7.11	1.52	1.59
25	BB	608	A	N3-C4	7.11	1.39	1.34
25	BB	885	C	C4-N4	-7.11	1.27	1.33
25	BB	1218	G	C6-N1	-7.11	1.34	1.39
25	BB	1491	G	N7-C5	7.11	1.43	1.39
25	BB	1990	C	C5-C6	7.11	1.40	1.34
1	AP	7	U	C4-C5	7.10	1.50	1.43
3	A1	342	C	N3-C4	-7.10	1.28	1.33
22	AW	73	GLY	CA-C	7.10	1.63	1.51
3	A1	495	A	N3-C4	7.10	1.39	1.34
3	A1	933	G	C6-N1	7.10	1.44	1.39
25	BB	404	A	C6-N1	-7.10	1.30	1.35
25	BB	1007	C	N1-C6	-7.10	1.32	1.37
25	BB	2801	G	N1-C2	-7.10	1.32	1.37
2	AM	14	U	C3'-C2'	7.10	1.60	1.52
3	A1	164	G	C2-N3	-7.10	1.27	1.32
3	A1	368	U	N1-C2	7.10	1.45	1.38
3	A1	939	G	N7-C5	7.10	1.43	1.39
3	A1	1174	G	N9-C4	-7.10	1.32	1.38
25	BB	598	U	C4'-O4'	-7.10	1.36	1.45
25	BB	1779	U	P-O5'	-7.10	1.52	1.59
25	BB	2628	C	C2'-O2'	7.10	1.50	1.41
1	AE	43	G	C6-N1	-7.10	1.34	1.39
3	A1	249	U	C4'-C3'	7.10	1.60	1.53
3	A1	489	C	N3-C4	-7.10	1.28	1.33
3	A1	1374	A	C6-N1	-7.10	1.30	1.35
25	BB	80	G	O3'-P	-7.10	1.52	1.61
25	BB	221	A	C6-N6	-7.10	1.28	1.33
25	BB	656	G	C6-N1	-7.10	1.34	1.39
25	BB	1435	G	C5-C4	-7.10	1.33	1.38
25	BB	1649	G	N7-C5	7.10	1.43	1.39
25	BB	2236	U	N3-C4	-7.10	1.32	1.38
25	BB	2098	U	C3'-C2'	7.10	1.60	1.52
24	BA	52	A	C6-N1	-7.09	1.30	1.35
25	BB	14	A	N3-C4	7.09	1.39	1.34
25	BB	478	A	C6-N1	-7.09	1.30	1.35
25	BB	2784	U	C2-N3	-7.09	1.32	1.37
3	A1	424	G	N1-C2	-7.09	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1071	C	C4'-O4'	-7.09	1.36	1.45
25	BB	1701	A	C5'-C4'	7.09	1.59	1.51
3	A1	510	A	P-O5'	-7.09	1.52	1.59
3	A1	1327	C	P-O5'	-7.09	1.52	1.59
25	BB	670	A	C2'-O2'	7.09	1.50	1.41
25	BB	2091	C	O3'-P	-7.09	1.52	1.61
25	BB	2129	C	C4-C5	-7.09	1.37	1.43
25	BB	2161	C	N1-C6	7.09	1.41	1.37
1	AA	58	A	C5-C4	-7.09	1.33	1.38
3	A1	454	G	C5-C4	7.09	1.43	1.38
25	BB	892	A	C6-N1	-7.09	1.30	1.35
25	BB	2206	C	N3-C4	-7.09	1.28	1.33
3	A1	155	A	O3'-P	7.09	1.69	1.61
25	BB	384	A	N7-C5	7.09	1.43	1.39
25	BB	2792	A	N3-C4	7.09	1.39	1.34
3	A1	1493	A	O3'-P	7.09	1.69	1.61
5	AC	36	ARG	CZ-NH1	-7.09	1.23	1.33
25	BB	794	A	C6-N1	-7.09	1.30	1.35
25	BB	956	G	C2-N2	-7.09	1.27	1.34
25	BB	1290	C	C4-N4	-7.09	1.27	1.33
25	BB	1525	A	C6-N6	-7.09	1.28	1.33
25	BB	1872	A	N7-C5	-7.09	1.34	1.39
25	BB	2808	G	C2-N2	-7.09	1.27	1.34
3	A1	451	A	C8-N7	7.08	1.36	1.31
31	BH	5	SER	CB-OG	7.08	1.51	1.42
3	A1	43	C	C4-N4	-7.08	1.27	1.33
3	A1	556	C	C5'-C4'	7.08	1.59	1.51
3	A1	912	C	N3-C4	-7.08	1.28	1.33
25	BB	483	A	C4'-O4'	-7.08	1.36	1.45
25	BB	1592	C	P-O5'	-7.08	1.52	1.59
25	BB	2009	A	C6-N1	-7.08	1.30	1.35
25	BB	2546	U	C5-C6	7.08	1.40	1.34
3	A1	293	G	N7-C5	7.08	1.43	1.39
3	A1	553	A	C5-C4	-7.08	1.33	1.38
3	A1	1494	G	C2-N2	-7.08	1.27	1.34
25	BB	588	U	N3-C4	-7.08	1.32	1.38
25	BB	1105	U	O3'-P	-7.08	1.52	1.61
3	A1	1299	A	O3'-P	-7.08	1.52	1.61
25	BB	1963	U	C5'-C4'	7.08	1.59	1.51
25	BB	562	U	N1-C6	7.08	1.44	1.38
25	BB	977	G	C5'-C4'	7.08	1.59	1.51
25	BB	1298	C	C4-C5	-7.08	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1399	C	C4-C5	-7.08	1.37	1.43
25	BB	2370	G	N9-C8	7.08	1.42	1.37
25	BB	2288	A	C2'-C1'	7.08	1.61	1.53
25	BB	2463	C	O3'-P	-7.08	1.52	1.61
25	BB	2497	A	N9-C8	7.08	1.43	1.37
3	A1	89	U	O3'-P	-7.08	1.52	1.61
25	BB	55	G	C5-C6	7.08	1.49	1.42
25	BB	674	G	C5-C6	7.08	1.49	1.42
25	BB	1564	C	P-O5'	7.08	1.66	1.59
25	BB	2554	U	N1-C2	7.08	1.45	1.38
25	BB	1946	U	P-O5'	7.07	1.66	1.59
25	BB	2560	A	N7-C5	-7.07	1.35	1.39
25	BB	2690	U	O3'-P	-7.07	1.52	1.61
3	A1	200	G	P-O5'	-7.07	1.52	1.59
3	A1	362	G	N3-C4	7.07	1.40	1.35
3	A1	594	U	N3-C4	-7.07	1.32	1.38
3	A1	1101	A	O3'-P	-7.07	1.52	1.61
25	BB	980	A	P-O5'	7.07	1.66	1.59
25	BB	1001	A	N9-C4	7.07	1.42	1.37
25	BB	1883	U	C2-N3	-7.07	1.32	1.37
3	A1	1079	G	C2-N2	-7.07	1.27	1.34
25	BB	1211	C	C4-N4	-7.07	1.27	1.33
25	BB	1574	C	C4-N4	-7.07	1.27	1.33
25	BB	1782	U	C2-N3	7.07	1.42	1.37
25	BB	1841	U	C4-C5	7.07	1.50	1.43
25	BB	2595	G	C2-N2	-7.07	1.27	1.34
25	BB	2802	G	C2'-O2'	7.07	1.50	1.41
2	AM	2	U	P-O5'	-7.07	1.52	1.59
3	A1	227	G	N7-C5	7.07	1.43	1.39
3	A1	380	G	C2-N2	-7.07	1.27	1.34
3	A1	694	A	C6-N1	-7.07	1.30	1.35
3	A1	898	G	C2-N2	-7.07	1.27	1.34
25	BB	685	A	C5-C4	-7.07	1.33	1.38
25	BB	2518	A	N9-C8	-7.07	1.32	1.37
25	BB	2794	C	C4'-O4'	-7.07	1.36	1.45
3	A1	904	U	N1-C2	7.07	1.45	1.38
25	BB	326	G	N3-C4	7.07	1.40	1.35
25	BB	665	U	C5'-C4'	7.07	1.59	1.51
25	BB	869	G	C5-C6	7.07	1.49	1.42
25	BB	2470	G	C2'-O2'	7.07	1.50	1.41
25	BB	2706	A	N9-C4	7.07	1.42	1.37
36	BM	76	ARG	CZ-NH2	-7.07	1.23	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1233	G	N9-C4	7.06	1.43	1.38
25	BB	215	G	C5'-C4'	7.06	1.59	1.51
25	BB	1884	G	N3-C4	7.06	1.40	1.35
25	BB	2764	A	P-O5'	-7.06	1.52	1.59
1	AE	24	G	C5-C6	7.06	1.49	1.42
25	BB	152	A	N3-C4	7.06	1.39	1.34
25	BB	319	G	C2-N2	-7.06	1.27	1.34
3	A1	927	G	P-O5'	-7.06	1.52	1.59
22	AW	118	ARG	CZ-NH2	-7.06	1.23	1.33
25	BB	2435	A	N7-C5	7.06	1.43	1.39
3	A1	88	U	C2'-C1'	7.06	1.61	1.53
3	A1	392	C	O3'-P	-7.06	1.52	1.61
3	A1	577	G	C2-N3	-7.06	1.27	1.32
3	A1	1020	G	N7-C5	-7.06	1.35	1.39
25	BB	190	A	C5'-C4'	7.06	1.59	1.51
25	BB	1800	C	O4'-C1'	7.06	1.50	1.41
3	A1	493	A	C2-N3	-7.06	1.27	1.33
3	A1	730	G	C2-N2	-7.06	1.27	1.34
3	A1	1477	U	C5-C6	7.06	1.40	1.34
1	AP	24	G	N7-C5	7.05	1.43	1.39
1	AP	32	C	C4-C5	-7.05	1.37	1.43
3	A1	104	G	N3-C4	7.05	1.40	1.35
3	A1	506	G	N7-C5	7.05	1.43	1.39
3	A1	667	G	N7-C5	7.05	1.43	1.39
3	A1	698	G	C4'-C3'	-7.05	1.45	1.53
3	A1	1139	G	C5-C6	7.05	1.49	1.42
3	A1	1490	U	O3'-P	-7.05	1.52	1.61
25	BB	1429	G	C2'-O2'	7.05	1.50	1.41
25	BB	2260	C	P-O5'	-7.05	1.52	1.59
1	AE	11	C	C4-N4	-7.05	1.27	1.33
3	A1	1515	G	N7-C5	7.05	1.43	1.39
25	BB	1803	A	C4'-C3'	7.05	1.60	1.53
3	A1	170	U	N1-C2	7.05	1.44	1.38
25	BB	250	G	N7-C5	7.05	1.43	1.39
25	BB	366	C	N1-C6	7.05	1.41	1.37
25	BB	956	G	O4'-C1'	7.05	1.50	1.41
25	BB	1177	G	C3'-C2'	7.05	1.60	1.52
25	BB	1789	A	N9-C4	-7.05	1.33	1.37
25	BB	2405	G	C2-N2	-7.05	1.27	1.34
3	A1	58	C	C2'-O2'	7.05	1.50	1.41
3	A1	684	U	C2'-C1'	-7.05	1.45	1.53
3	A1	843	U	C5-C6	7.05	1.40	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1494	G	N1-C2	-7.05	1.32	1.37
25	BB	532	A	C6-N6	-7.05	1.28	1.33
25	BB	547	A	N3-C4	7.05	1.39	1.34
25	BB	2408	U	N3-C4	-7.05	1.32	1.38
25	BB	2623	G	N7-C5	7.05	1.43	1.39
25	BB	2851	A	C5-C6	7.05	1.47	1.41
3	A1	1396	A	N7-C5	7.05	1.43	1.39
25	BB	1597	A	C5-C4	-7.05	1.33	1.38
25	BB	2054	A	P-O5'	7.05	1.66	1.59
3	A1	564	C	N1-C6	7.05	1.41	1.37
25	BB	793	A	N1-C2	-7.05	1.28	1.34
25	BB	1388	G	N9-C4	7.05	1.43	1.38
25	BB	1775	U	C4-C5	7.05	1.49	1.43
25	BB	1102	C	C4-N4	-7.04	1.27	1.33
25	BB	693	A	N3-C4	7.04	1.39	1.34
25	BB	827	U	C4'-O4'	-7.04	1.36	1.45
25	BB	1385	A	C4'-C3'	7.04	1.60	1.53
25	BB	1728	C	C4-N4	-7.04	1.27	1.33
25	BB	2303	G	C8-N7	-7.04	1.26	1.30
28	BE	18	ARG	CZ-NH2	-7.04	1.23	1.33
1	AP	8	U	O3'-P	-7.04	1.52	1.61
25	BB	554	U	C5-C6	7.04	1.40	1.34
25	BB	820	A	C6-N1	-7.04	1.30	1.35
25	BB	1471	G	N3-C4	7.04	1.40	1.35
25	BB	2374	C	N3-C4	-7.04	1.29	1.33
25	BB	2615	U	C4'-O4'	-7.04	1.36	1.45
25	BB	2685	G	N9-C4	7.04	1.43	1.38
25	BB	2785	C	N3-C4	-7.04	1.29	1.33
25	BB	2876	G	N3-C4	7.04	1.40	1.35
3	A1	1428	A	N9-C4	7.04	1.42	1.37
25	BB	20	C	C3'-C2'	7.04	1.60	1.52
25	BB	846	U	C4'-O4'	-7.04	1.36	1.45
25	BB	1612	C	C5-C6	7.04	1.40	1.34
25	BB	2524	G	C2-N2	-7.04	1.27	1.34
3	A1	889	A	C6-N1	-7.04	1.30	1.35
25	BB	1238	G	C3'-O3'	-7.04	1.32	1.42
25	BB	1701	A	C5-C4	-7.04	1.33	1.38
1	AA	15	G	N1-C2	-7.04	1.32	1.37
3	A1	504	C	N1-C6	7.04	1.41	1.37
3	A1	693	G	N7-C5	7.04	1.43	1.39
3	A1	948	C	C2-N3	7.04	1.41	1.35
25	BB	211	C	C2'-C1'	7.04	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1133	A	P-O5'	7.04	1.66	1.59
25	BB	1840	G	N3-C4	7.04	1.40	1.35
25	BB	1875	G	O4'-C1'	7.04	1.50	1.41
25	BB	1944	U	C4'-C3'	7.04	1.60	1.53
1	AE	62	A	C5-C4	-7.03	1.33	1.38
25	BB	300	A	C6-N1	-7.03	1.30	1.35
25	BB	854	C	N3-C4	-7.03	1.29	1.33
25	BB	2519	U	N1-C6	7.03	1.44	1.38
25	BB	2634	A	N3-C4	-7.03	1.30	1.34
2	AM	19	U	C4-O4	7.03	1.29	1.23
3	A1	515	G	N9-C8	7.03	1.42	1.37
3	A1	1311	A	N9-C4	-7.03	1.33	1.37
25	BB	897	C	C4-N4	-7.03	1.27	1.33
25	BB	1528	A	C8-N7	-7.03	1.26	1.31
3	A1	24	U	C2-N3	7.03	1.42	1.37
3	A1	158	G	N7-C5	7.03	1.43	1.39
3	A1	846	G	N1-C2	-7.03	1.32	1.37
25	BB	89	A	C5-C4	-7.03	1.33	1.38
25	BB	2287	A	C5-C4	-7.03	1.33	1.38
25	BB	2648	G	C2-N2	-7.03	1.27	1.34
25	BB	2133	G	C6-N1	7.03	1.44	1.39
1	AP	40	C	N3-C4	-7.03	1.29	1.33
3	A1	674	G	N1-C2	-7.03	1.32	1.37
25	BB	749	A	N3-C4	7.03	1.39	1.34
3	A1	43	C	C5'-C4'	7.03	1.59	1.51
3	A1	110	C	C4-C5	-7.03	1.37	1.43
3	A1	557	G	C6-O6	7.03	1.30	1.24
3	A1	819	A	C4'-C3'	7.03	1.60	1.53
24	BA	75	G	C6-N1	-7.03	1.34	1.39
1	AA	49	C	C4'-C3'	-7.02	1.45	1.53
3	A1	470	C	C2'-C1'	-7.02	1.45	1.53
3	A1	895	G	N1-C2	-7.02	1.32	1.37
25	BB	215	G	N1-C2	-7.02	1.32	1.37
25	BB	2385	C	C4-N4	-7.02	1.27	1.33
2	AM	20	U	C2-N3	7.02	1.42	1.37
3	A1	193	C	N1-C2	7.02	1.47	1.40
3	A1	797	C	O3'-P	-7.02	1.52	1.61
3	A1	931	C	N3-C4	-7.02	1.29	1.33
25	BB	1311	G	P-O5'	-7.02	1.52	1.59
25	BB	1977	A	C2'-O2'	7.02	1.50	1.41
25	BB	2486	C	N3-C4	-7.02	1.29	1.33
25	BB	2558	C	P-O5'	-7.02	1.52	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	306	A	O3'-P	-7.02	1.52	1.61
3	A1	944	G	C6-N1	-7.02	1.34	1.39
25	BB	1298	C	P-O5'	7.02	1.66	1.59
25	BB	2361	G	O3'-P	-7.02	1.52	1.61
25	BB	2804	U	P-O5'	-7.02	1.52	1.59
25	BB	1050	A	N9-C4	-7.02	1.33	1.37
25	BB	1322	A	C4'-C3'	7.02	1.60	1.53
25	BB	1846	G	N1-C2	-7.02	1.32	1.37
3	A1	298	A	N3-C4	7.02	1.39	1.34
3	A1	354	G	C2-N2	-7.02	1.27	1.34
3	A1	673	A	C2-N3	-7.02	1.27	1.33
3	A1	1459	G	C5-C4	-7.02	1.33	1.38
25	BB	2208	C	N3-C4	-7.02	1.29	1.33
3	A1	751	U	C2'-O2'	7.02	1.50	1.41
22	AW	108	ARG	CZ-NH1	-7.02	1.24	1.33
25	BB	2371	G	N9-C8	-7.02	1.32	1.37
25	BB	2481	G	C5'-C4'	7.02	1.59	1.51
3	A1	72	A	P-O5'	-7.01	1.52	1.59
3	A1	968	A	N9-C4	-7.01	1.33	1.37
3	A1	1068	G	C6-N1	-7.01	1.34	1.39
3	A1	1164	G	P-O5'	7.01	1.66	1.59
25	BB	650	C	N3-C4	-7.01	1.29	1.33
25	BB	855	G	C8-N7	7.01	1.35	1.30
25	BB	776	G	O3'-P	-7.01	1.52	1.61
25	BB	1027	A	C6-N6	-7.01	1.28	1.33
25	BB	2083	G	P-O5'	-7.01	1.52	1.59
3	A1	48	C	C5-C6	7.01	1.40	1.34
3	A1	483	C	C4-C5	-7.01	1.37	1.43
3	A1	1279	G	N1-C2	-7.01	1.32	1.37
25	BB	1085	A	O3'-P	-7.01	1.52	1.61
25	BB	1537	G	C5-C4	7.01	1.43	1.38
3	A1	337	G	C2-N3	7.01	1.38	1.32
3	A1	885	G	N3-C4	7.01	1.40	1.35
3	A1	1144	G	N9-C8	7.01	1.42	1.37
25	BB	558	U	C2-O2	-7.01	1.16	1.22
25	BB	602	A	N9-C8	7.01	1.43	1.37
25	BB	764	A	N1-C2	-7.01	1.28	1.34
25	BB	1071	G	N7-C5	7.01	1.43	1.39
25	BB	1468	U	C4'-O4'	-7.01	1.36	1.45
25	BB	1206	G	C3'-O3'	7.01	1.51	1.42
25	BB	1644	C	C2-N3	7.01	1.41	1.35
25	BB	1694	C	C4-N4	-7.01	1.27	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2491	U	C4'-C3'	7.01	1.60	1.53
25	BB	2838	G	C8-N7	7.01	1.35	1.30
3	A1	530	G	C2-N2	-7.01	1.27	1.34
25	BB	128	C	N3-C4	-7.01	1.29	1.33
25	BB	195	A	C6-N6	-7.01	1.28	1.33
25	BB	1032	A	C5-C6	7.01	1.47	1.41
25	BB	1285	A	C6-N6	-7.01	1.28	1.33
25	BB	2101	A	C3'-C2'	7.01	1.60	1.52
25	BB	2111	U	P-O5'	-7.00	1.52	1.59
3	A1	194	C	C5-C6	7.00	1.40	1.34
3	A1	221	C	O3'-P	-7.00	1.52	1.61
3	A1	305	G	C2-N2	-7.00	1.27	1.34
3	A1	939	G	C2-N2	-7.00	1.27	1.34
3	A1	1265	C	N3-C4	-7.00	1.29	1.33
3	A1	1465	A	C2'-C1'	7.00	1.61	1.53
25	BB	2070	A	C5'-C4'	7.00	1.59	1.51
3	A1	988	G	C5-C6	7.00	1.49	1.42
25	BB	2076	U	N1-C2	7.00	1.44	1.38
25	BB	2207	C	C4-N4	-7.00	1.27	1.33
2	AM	5	U	C2-N3	-7.00	1.32	1.37
3	A1	630	A	N7-C5	7.00	1.43	1.39
25	BB	227	A	C5-C4	-7.00	1.33	1.38
25	BB	416	U	C5-C6	7.00	1.40	1.34
25	BB	768	G	C3'-C2'	7.00	1.60	1.52
3	A1	1063	C	C4-C5	-7.00	1.37	1.43
3	A1	1292	G	N3-C4	7.00	1.40	1.35
25	BB	192	C	C2-O2	-7.00	1.18	1.24
25	BB	849	A	C6-N6	-7.00	1.28	1.33
25	BB	985	C	O4'-C1'	7.00	1.50	1.41
25	BB	1099	G	O3'-P	-7.00	1.52	1.61
25	BB	2051	A	N9-C4	7.00	1.42	1.37
25	BB	2717	C	N1-C6	7.00	1.41	1.37
25	BB	2732	G	N9-C8	-7.00	1.32	1.37
3	A1	7	A	O3'-P	-7.00	1.52	1.61
3	A1	411	A	N1-C2	-7.00	1.28	1.34
25	BB	376	G	C2-N2	-7.00	1.27	1.34
25	BB	1011	G	N3-C4	7.00	1.40	1.35
25	BB	1383	A	N1-C2	-7.00	1.28	1.34
25	BB	1813	G	C2-N2	-7.00	1.27	1.34
24	BA	38	C	P-O5'	-6.99	1.52	1.59
25	BB	1533	C	C4-C5	-6.99	1.37	1.43
25	BB	2147	A	C3'-O3'	6.99	1.51	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2396	G	C6-N1	-6.99	1.34	1.39
25	BB	2727	A	N1-C2	-6.99	1.28	1.34
3	A1	684	U	C4'-C3'	6.99	1.60	1.53
3	A1	1260	G	C2-N2	-6.99	1.27	1.34
25	BB	246	C	C2-N3	6.99	1.41	1.35
25	BB	2444	G	P-O5'	-6.99	1.52	1.59
1	AA	74	C	N3-C4	-6.99	1.29	1.33
3	A1	547	A	N7-C5	6.99	1.43	1.39
3	A1	806	C	C4'-C3'	6.99	1.60	1.53
3	A1	872	A	N9-C4	6.99	1.42	1.37
25	BB	843	G	N9-C8	-6.99	1.32	1.37
25	BB	1938	A	N7-C5	6.99	1.43	1.39
25	BB	1959	G	C5-C6	6.99	1.49	1.42
25	BB	2436	G	C8-N7	6.99	1.35	1.30
25	BB	2652	C	N1-C6	-6.99	1.32	1.37
3	A1	364	A	N9-C4	6.99	1.42	1.37
3	A1	699	C	N1-C6	6.99	1.41	1.37
25	BB	1547	C	C5-C6	6.99	1.40	1.34
25	BB	1701	A	N1-C2	-6.99	1.28	1.34
25	BB	2105	U	C3'-C2'	6.99	1.60	1.52
3	A1	35	G	N1-C2	-6.99	1.32	1.37
3	A1	274	A	C5-C4	-6.99	1.33	1.38
25	BB	647	G	C2-N2	-6.99	1.27	1.34
25	BB	990	A	C8-N7	6.99	1.36	1.31
25	BB	1347	A	C4'-O4'	-6.99	1.36	1.45
25	BB	2635	A	N7-C5	6.99	1.43	1.39
25	BB	2125	G	C2'-O2'	6.98	1.50	1.41
3	A1	1466	C	N1-C6	6.98	1.41	1.37
25	BB	209	C	O3'-P	-6.98	1.52	1.61
25	BB	1565	C	O3'-P	-6.98	1.52	1.61
25	BB	2137	U	C5'-C4'	6.98	1.59	1.51
25	BB	2508	G	C2-N2	-6.98	1.27	1.34
1	AE	11	C	N1-C6	6.98	1.41	1.37
3	A1	818	G	C3'-C2'	6.98	1.60	1.52
3	A1	1158	C	N3-C4	-6.98	1.29	1.33
25	BB	1032	A	N3-C4	6.98	1.39	1.34
25	BB	1425	G	C5'-C4'	6.98	1.59	1.51
25	BB	2879	A	P-O5'	-6.98	1.52	1.59
3	A1	226	G	N9-C8	-6.98	1.32	1.37
25	BB	742	A	N3-C4	-6.98	1.30	1.34
25	BB	1895	C	N3-C4	-6.98	1.29	1.33
1	AP	30	G	N3-C4	-6.98	1.30	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	297	G	N9-C4	6.98	1.43	1.38
25	BB	7	G	N1-C2	-6.98	1.32	1.37
25	BB	721	A	N9-C4	6.98	1.42	1.37
25	BB	1500	G	N3-C4	6.98	1.40	1.35
25	BB	2393	U	C4-O4	-6.98	1.18	1.23
25	BB	2593	U	C2'-C1'	-6.98	1.45	1.53
25	BB	332	A	C2-N3	-6.98	1.27	1.33
25	BB	1296	G	N9-C8	6.98	1.42	1.37
3	A1	178	C	N3-C4	-6.97	1.29	1.33
25	BB	47	C	C4-N4	-6.97	1.27	1.33
25	BB	1482	G	C3'-C2'	6.97	1.60	1.52
24	BA	41	G	P-O5'	6.97	1.66	1.59
25	BB	576	U	C4-O4	-6.97	1.18	1.23
25	BB	1731	G	N3-C4	6.97	1.40	1.35
25	BB	1937	A	N1-C2	-6.97	1.28	1.34
25	BB	1949	G	C2-N2	-6.97	1.27	1.34
3	A1	633	G	N9-C8	-6.97	1.32	1.37
24	BA	85	G	C4'-O4'	-6.97	1.36	1.45
25	BB	1887	C	N3-C4	-6.97	1.29	1.33
25	BB	2362	C	C4-C5	-6.97	1.37	1.43
3	A1	933	G	C2-N2	-6.97	1.27	1.34
53	B4	132	PHE	CG-CD2	6.97	1.49	1.38
3	A1	285	C	C4-C5	-6.97	1.37	1.43
3	A1	1256	A	N7-C5	6.97	1.43	1.39
3	A1	1293	C	O3'-P	-6.97	1.52	1.61
19	AT	25	TYR	CE1-CZ	6.97	1.47	1.38
24	BA	29	A	N1-C2	-6.97	1.28	1.34
25	BB	401	A	N9-C8	-6.97	1.32	1.37
25	BB	2071	A	P-O5'	-6.97	1.52	1.59
25	BB	2171	A	P-O5'	-6.97	1.52	1.59
25	BB	2244	U	C5-C6	6.97	1.40	1.34
3	A1	1111	A	C6-N6	-6.96	1.28	1.33
25	BB	411	G	C5-C4	6.96	1.43	1.38
25	BB	1044	C	C4-C5	-6.96	1.37	1.43
25	BB	2211	A	C6-N1	-6.96	1.30	1.35
3	A1	1422	G	C2'-O2'	6.96	1.50	1.41
3	A1	86	G	N9-C8	-6.96	1.32	1.37
25	BB	827	U	O3'-P	-6.96	1.52	1.61
1	AA	35	A	C3'-C2'	6.96	1.60	1.52
3	A1	538	G	P-O5'	-6.96	1.52	1.59
40	BQ	47	ARG	CZ-NH1	-6.96	1.24	1.33
3	A1	539	A	C3'-C2'	6.96	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	972	C	N3-C4	-6.96	1.29	1.33
3	A1	1241	G	C5-C4	6.96	1.43	1.38
24	BA	117	G	C4'-C3'	6.96	1.60	1.53
25	BB	495	G	N7-C5	6.96	1.43	1.39
25	BB	507	A	N1-C2	-6.96	1.28	1.34
25	BB	1707	G	N7-C5	6.96	1.43	1.39
3	A1	890	G	C8-N7	6.96	1.35	1.30
3	A1	1161	C	N3-C4	-6.96	1.29	1.33
1	AA	4	G	C2-N3	-6.96	1.27	1.32
3	A1	654	G	P-O5'	6.96	1.66	1.59
25	BB	379	G	N3-C4	6.96	1.40	1.35
1	AP	2	C	C5-C6	6.95	1.40	1.34
3	A1	620	C	C2'-O2'	6.95	1.50	1.41
3	A1	683	G	C2-N3	6.95	1.38	1.32
25	BB	135	U	C2-O2	6.95	1.28	1.22
25	BB	557	C	C5'-C4'	6.95	1.59	1.51
25	BB	763	G	C2-N2	-6.95	1.27	1.34
3	A1	448	A	C5-C4	-6.95	1.33	1.38
25	BB	24	G	N9-C8	6.95	1.42	1.37
25	BB	1430	G	N9-C8	-6.95	1.32	1.37
25	BB	2608	G	C8-N7	6.95	1.35	1.30
25	BB	1257	C	C4-N4	-6.95	1.27	1.33
3	A1	165	G	C2-N2	-6.95	1.27	1.34
3	A1	873	A	N3-C4	6.95	1.39	1.34
25	BB	791	C	C5-C6	6.95	1.40	1.34
25	BB	1430	G	C8-N7	6.95	1.35	1.30
25	BB	1818	U	N1-C2	6.95	1.44	1.38
25	BB	2471	A	C2'-O2'	6.95	1.50	1.41
3	A1	137	U	C2-N3	-6.95	1.32	1.37
3	A1	232	G	P-O5'	6.95	1.66	1.59
3	A1	1293	C	C4-N4	-6.95	1.27	1.33
25	BB	2031	A	O3'-P	-6.95	1.52	1.61
3	A1	1454	G	N1-C2	-6.95	1.32	1.37
25	BB	443	A	C5'-C4'	6.95	1.59	1.51
25	BB	481	G	C8-N7	6.95	1.35	1.30
25	BB	523	C	C4'-O4'	-6.95	1.36	1.45
25	BB	2319	G	C8-N7	-6.95	1.26	1.30
25	BB	2365	G	C8-N7	-6.95	1.26	1.30
3	A1	1435	G	C2-N2	-6.94	1.27	1.34
25	BB	467	G	N7-C5	6.94	1.43	1.39
25	BB	951	C	N3-C4	-6.94	1.29	1.33
25	BB	980	A	N1-C2	-6.94	1.28	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1393	A	C5'-C4'	6.94	1.59	1.51
25	BB	2274	A	O3'-P	-6.94	1.52	1.61
25	BB	2614	A	O3'-P	-6.94	1.52	1.61
1	AE	57	G	C5'-C4'	6.94	1.59	1.51
3	A1	195	A	C2-N3	-6.94	1.27	1.33
3	A1	792	A	C5-C4	-6.94	1.33	1.38
25	BB	1612	C	C4'-O4'	-6.94	1.36	1.45
25	BB	2625	G	P-O5'	-6.94	1.52	1.59
1	AP	73	A	N3-C4	6.94	1.39	1.34
25	BB	357	C	C4-N4	-6.94	1.27	1.33
25	BB	2490	G	N9-C8	-6.94	1.32	1.37
3	A1	1108	G	C2-N2	-6.94	1.27	1.34
3	A1	1357	A	C5'-C4'	6.94	1.59	1.51
25	BB	498	G	C4'-C3'	-6.94	1.45	1.53
25	BB	529	A	N3-C4	-6.94	1.30	1.34
25	BB	705	A	C6-N1	-6.94	1.30	1.35
25	BB	1107	G	N3-C4	6.94	1.40	1.35
3	A1	471	U	N1-C2	6.94	1.44	1.38
25	BB	1413	A	N7-C5	6.94	1.43	1.39
25	BB	2215	C	C5-C6	6.94	1.39	1.34
25	BB	825	A	C2-N3	6.93	1.39	1.33
25	BB	2529	G	C5'-C4'	6.93	1.59	1.51
3	A1	484	G	C2-N2	-6.93	1.27	1.34
3	A1	622	A	C8-N7	-6.93	1.26	1.31
3	A1	818	G	C8-N7	-6.93	1.26	1.30
3	A1	1012	A	C6-N1	-6.93	1.30	1.35
3	A1	1207	G	C5-C6	6.93	1.49	1.42
25	BB	619	G	C4'-O4'	-6.93	1.36	1.45
25	BB	1114	C	O3'-P	-6.93	1.52	1.61
25	BB	1343	G	N9-C8	6.93	1.42	1.37
25	BB	1630	A	C5-C4	-6.93	1.33	1.38
25	BB	2266	A	N3-C4	6.93	1.39	1.34
25	BB	1556	C	C2-N3	6.93	1.41	1.35
25	BB	2048	G	C2-N2	-6.93	1.27	1.34
3	A1	524	G	P-O5'	6.93	1.66	1.59
3	A1	1096	C	C2-N3	6.93	1.41	1.35
25	BB	174	U	N1-C6	6.93	1.44	1.38
25	BB	796	C	N1-C6	6.93	1.41	1.37
25	BB	1430	G	C3'-C2'	6.93	1.60	1.52
25	BB	1699	G	C2-N2	-6.93	1.27	1.34
25	BB	2901	C	C4'-O4'	-6.93	1.36	1.45
1	AA	67	A	C4'-O4'	-6.93	1.36	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	22	C	N3-C4	-6.93	1.29	1.33
25	BB	1037	G	C6-O6	-6.93	1.18	1.24
25	BB	1510	G	N3-C4	6.93	1.40	1.35
25	BB	1630	A	N3-C4	6.93	1.39	1.34
3	A1	1525	G	C5'-C4'	6.93	1.59	1.51
25	BB	1061	U	C4-C5	6.93	1.49	1.43
3	A1	74	A	C6-N6	-6.92	1.28	1.33
3	A1	645	G	N7-C5	6.92	1.43	1.39
25	BB	783	A	N7-C5	6.92	1.43	1.39
25	BB	1427	A	N3-C4	6.92	1.39	1.34
25	BB	1687	G	C2-N2	-6.92	1.27	1.34
25	BB	2874	C	C4'-C3'	6.92	1.60	1.53
3	A1	1493	A	N3-C4	6.92	1.39	1.34
25	BB	774	G	N3-C4	6.92	1.40	1.35
25	BB	795	C	O3'-P	-6.92	1.52	1.61
25	BB	2189	U	N3-C4	6.92	1.44	1.38
25	BB	2551	C	N3-C4	-6.92	1.29	1.33
3	A1	1281	C	C4-N4	-6.92	1.27	1.33
25	BB	746	U	C2'-C1'	-6.92	1.45	1.53
25	BB	2020	A	P-O5'	6.92	1.66	1.59
25	BB	2488	G	N7-C5	6.92	1.43	1.39
3	A1	448	A	C2'-C1'	6.92	1.60	1.53
3	A1	1197	A	C5'-C4'	6.92	1.59	1.51
25	BB	1451	C	N3-C4	-6.92	1.29	1.33
3	A1	1217	C	P-O5'	-6.92	1.52	1.59
3	A1	1334	G	P-O5'	6.92	1.66	1.59
24	BA	35	C	N1-C2	6.92	1.47	1.40
25	BB	47	C	O4'-C1'	6.92	1.50	1.41
25	BB	184	C	C5-C6	6.92	1.39	1.34
25	BB	673	C	C4'-O4'	-6.92	1.36	1.45
25	BB	974	G	O4'-C1'	6.92	1.50	1.41
25	BB	1734	G	N9-C8	6.92	1.42	1.37
25	BB	2779	U	C5'-C4'	6.92	1.59	1.51
3	A1	583	A	N9-C4	6.92	1.42	1.37
3	A1	716	A	C5-C4	-6.92	1.33	1.38
3	A1	983	A	C3'-C2'	-6.92	1.45	1.52
3	A1	1244	G	O3'-P	-6.92	1.52	1.61
3	A1	1375	A	N3-C4	6.92	1.39	1.34
3	A1	1468	A	N3-C4	-6.92	1.30	1.34
25	BB	60	G	O3'-P	-6.92	1.52	1.61
25	BB	1731	G	N1-C2	-6.92	1.32	1.37
25	BB	2082	A	C8-N7	-6.92	1.26	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2642	G	N3-C4	6.92	1.40	1.35
3	A1	800	G	N3-C4	6.91	1.40	1.35
3	A1	1155	A	N3-C4	6.91	1.39	1.34
3	A1	1366	C	C4-C5	6.91	1.48	1.43
25	BB	1871	A	O3'-P	-6.91	1.52	1.61
25	BB	2163	A	C5'-C4'	6.91	1.59	1.51
3	A1	200	G	N7-C5	6.91	1.43	1.39
3	A1	247	G	C2-N2	-6.91	1.27	1.34
25	BB	653	U	N1-C2	6.91	1.44	1.38
25	BB	1953	A	N3-C4	-6.91	1.30	1.34
25	BB	1989	G	C5-C4	-6.91	1.33	1.38
25	BB	2180	U	N1-C6	6.91	1.44	1.38
1	AA	28	C	C3'-C2'	6.91	1.60	1.52
15	AO	39	ARG	CZ-NH2	-6.91	1.24	1.33
25	BB	344	A	C6-N6	-6.91	1.28	1.33
25	BB	826	U	C4'-C3'	-6.91	1.45	1.53
25	BB	1991	U	O3'-P	-6.91	1.52	1.61
25	BB	2410	G	C2-N2	-6.91	1.27	1.34
25	BB	1583	A	N1-C2	-6.91	1.28	1.34
3	A1	853	C	C4'-O4'	-6.91	1.36	1.45
3	A1	996	A	N7-C5	6.91	1.43	1.39
3	A1	1157	A	C5'-C4'	6.91	1.59	1.51
24	BA	11	C	C4-C5	-6.91	1.37	1.43
25	BB	220	G	C6-N1	-6.91	1.34	1.39
25	BB	356	G	C6-N1	-6.91	1.34	1.39
25	BB	1798	U	C5-C6	6.91	1.40	1.34
25	BB	2131	U	P-O5'	6.91	1.66	1.59
25	BB	2813	A	N1-C2	-6.91	1.28	1.34
3	A1	832	G	N9-C4	-6.90	1.32	1.38
3	A1	1414	U	C5-C6	6.90	1.40	1.34
3	A1	1497	G	N1-C2	-6.90	1.32	1.37
25	BB	109	C	C4-N4	-6.90	1.27	1.33
1	AP	73	A	C6-N1	-6.90	1.30	1.35
25	BB	538	A	N9-C4	-6.90	1.33	1.37
25	BB	1742	U	N3-C4	-6.90	1.32	1.38
25	BB	1807	G	N7-C5	6.90	1.43	1.39
25	BB	2410	G	C2-N3	6.90	1.38	1.32
3	A1	393	A	N7-C5	6.90	1.43	1.39
3	A1	584	G	C6-N1	-6.90	1.34	1.39
25	BB	408	G	N7-C5	6.90	1.43	1.39
25	BB	1034	G	C5-C4	-6.90	1.33	1.38
25	BB	2636	C	N1-C6	6.90	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	984	C	C4-N4	-6.90	1.27	1.33
24	BA	21	G	C2-N2	-6.90	1.27	1.34
3	A1	611	C	C4-C5	-6.90	1.37	1.43
3	A1	910	C	P-O5'	6.90	1.66	1.59
3	A1	953	G	N1-C2	-6.90	1.32	1.37
25	BB	342	A	N9-C4	6.90	1.42	1.37
25	BB	1659	G	N3-C4	-6.90	1.30	1.35
25	BB	1970	A	N9-C4	6.90	1.42	1.37
25	BB	2211	A	O3'-P	-6.90	1.52	1.61
25	BB	2604	U	C4-C5	-6.90	1.37	1.43
3	A1	494	G	N9-C8	6.90	1.42	1.37
25	BB	1070	A	C5-C4	-6.90	1.33	1.38
3	A1	494	G	C2-N2	-6.89	1.27	1.34
3	A1	1060	U	O3'-P	-6.89	1.52	1.61
25	BB	39	G	N3-C4	6.89	1.40	1.35
25	BB	1639	C	P-O5'	6.89	1.66	1.59
31	BH	94	ARG	CZ-NH2	-6.89	1.24	1.33
1	AP	60	C	O3'-P	-6.89	1.52	1.61
3	A1	768	A	C6-N1	-6.89	1.30	1.35
3	A1	996	A	C2'-C1'	6.89	1.60	1.53
3	A1	1201	A	C5'-C4'	6.89	1.59	1.51
3	A1	1355	G	N3-C4	6.89	1.40	1.35
25	BB	5	A	P-O5'	6.89	1.66	1.59
25	BB	469	G	C5-C6	6.89	1.49	1.42
25	BB	897	C	C4'-O4'	-6.89	1.36	1.45
25	BB	2601	C	C2-O2	-6.89	1.18	1.24
25	BB	2746	U	P-O5'	-6.89	1.52	1.59
3	A1	315	A	N7-C5	6.89	1.43	1.39
3	A1	1488	G	N7-C5	6.89	1.43	1.39
25	BB	956	G	C2'-C1'	-6.89	1.45	1.53
25	BB	2655	G	N9-C4	-6.89	1.32	1.38
25	BB	2857	G	C2-N2	-6.89	1.27	1.34
3	A1	577	G	C3'-C2'	6.89	1.60	1.52
25	BB	2891	U	C2'-C1'	6.89	1.60	1.53
3	A1	181	A	C5-C6	6.89	1.47	1.41
3	A1	211	G	N9-C4	6.89	1.43	1.38
24	BA	30	C	C5-C6	6.89	1.39	1.34
3	A1	256	U	C2'-C1'	-6.88	1.45	1.53
3	A1	298	A	C5-C4	-6.88	1.33	1.38
3	A1	562	U	O3'-P	-6.88	1.52	1.61
3	A1	601	G	N9-C4	-6.88	1.32	1.38
25	BB	24	G	C2-N3	6.88	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	480	A	N7-C5	6.88	1.43	1.39
25	BB	752	A	N7-C5	6.88	1.43	1.39
25	BB	10	A	N3-C4	6.88	1.39	1.34
25	BB	460	A	P-O5'	-6.88	1.52	1.59
25	BB	2565	A	C6-N1	-6.88	1.30	1.35
37	BN	132	ARG	CZ-NH2	-6.88	1.24	1.33
1	AE	39	U	C2'-O2'	6.88	1.50	1.41
3	A1	12	U	O3'-P	-6.88	1.52	1.61
3	A1	181	A	C1'-N9	6.88	1.59	1.48
3	A1	220	G	C5'-C4'	6.88	1.59	1.51
3	A1	829	G	C5-C6	6.88	1.49	1.42
25	BB	980	A	C6-N1	-6.88	1.30	1.35
25	BB	1260	A	N3-C4	6.88	1.39	1.34
25	BB	1428	C	O4'-C1'	6.88	1.50	1.41
25	BB	1429	G	C2-N2	-6.88	1.27	1.34
25	BB	1527	G	N7-C5	6.88	1.43	1.39
25	BB	1813	G	N3-C4	6.88	1.40	1.35
3	A1	565	U	C5-C6	6.88	1.40	1.34
25	BB	2345	G	C5'-C4'	6.88	1.59	1.51
25	BB	2435	A	C6-N6	-6.88	1.28	1.33
3	A1	281	G	C2-N2	-6.88	1.27	1.34
3	A1	1122	U	C4-O4	6.88	1.29	1.23
25	BB	882	G	C2-N2	-6.88	1.27	1.34
25	BB	1417	C	C4-N4	-6.88	1.27	1.33
25	BB	2625	G	C8-N7	6.88	1.35	1.30
3	A1	758	C	N1-C6	6.88	1.41	1.37
3	A1	973	G	N1-C2	-6.88	1.32	1.37
25	BB	330	A	C5-C4	-6.88	1.33	1.38
25	BB	715	A	C5-C4	-6.88	1.33	1.38
25	BB	782	A	P-O5'	-6.88	1.52	1.59
25	BB	1327	A	C5'-C4'	6.88	1.59	1.51
25	BB	1446	C	C4-C5	-6.88	1.37	1.43
25	BB	2189	U	C2-O2	6.88	1.28	1.22
25	BB	2823	A	N9-C4	-6.88	1.33	1.37
3	A1	501	C	N3-C4	-6.88	1.29	1.33
3	A1	737	C	N3-C4	-6.88	1.29	1.33
25	BB	757	G	C2-N2	-6.88	1.27	1.34
25	BB	1472	C	N1-C6	6.88	1.41	1.37
25	BB	2029	G	C2-N2	-6.88	1.27	1.34
3	A1	1178	G	N7-C5	6.87	1.43	1.39
24	BA	78	A	C6-N1	-6.87	1.30	1.35
25	BB	349	U	C2-N3	-6.87	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1450	G	N9-C8	6.87	1.42	1.37
25	BB	1563	U	C4-C5	-6.87	1.37	1.43
25	BB	1634	A	N9-C4	-6.87	1.33	1.37
25	BB	639	U	N3-C4	-6.87	1.32	1.38
25	BB	700	G	P-O5'	6.87	1.66	1.59
25	BB	1244	A	N1-C2	-6.87	1.28	1.34
25	BB	1323	C	C4-N4	-6.87	1.27	1.33
25	BB	2716	C	N1-C6	6.87	1.41	1.37
3	A1	503	C	N3-C4	-6.87	1.29	1.33
3	A1	848	C	C4-C5	-6.87	1.37	1.43
3	A1	1235	U	C2-N3	6.87	1.42	1.37
25	BB	1339	G	C2-N2	-6.87	1.27	1.34
25	BB	2815	C	C4-N4	-6.87	1.27	1.33
25	BB	81	G	C2'-C1'	6.87	1.60	1.53
25	BB	1013	C	O3'-P	-6.87	1.52	1.61
25	BB	1653	G	C2-N2	-6.87	1.27	1.34
25	BB	1941	C	N3-C4	-6.87	1.29	1.33
25	BB	1943	U	P-O5'	6.87	1.66	1.59
3	A1	59	A	N9-C4	6.87	1.42	1.37
3	A1	1234	C	N1-C6	6.87	1.41	1.37
3	A1	1373	G	N1-C2	-6.87	1.32	1.37
3	A1	593	U	N1-C2	6.87	1.44	1.38
3	A1	1207	G	N7-C5	6.87	1.43	1.39
25	BB	742	A	C6-N1	-6.87	1.30	1.35
25	BB	1552	A	C2'-C1'	6.87	1.60	1.53
25	BB	1770	G	N1-C2	-6.87	1.32	1.37
25	BB	2465	C	O3'-P	-6.87	1.52	1.61
3	A1	365	U	N1-C2	6.86	1.44	1.38
3	A1	407	U	C2'-O2'	6.86	1.50	1.41
3	A1	447	G	C2-N2	-6.86	1.27	1.34
3	A1	1196	A	C6-N1	-6.86	1.30	1.35
3	A1	1460	C	C4-N4	-6.86	1.27	1.33
25	BB	556	A	C4'-O4'	-6.86	1.36	1.45
25	BB	560	C	N1-C6	6.86	1.41	1.37
25	BB	758	C	C4'-O4'	-6.86	1.36	1.45
25	BB	1276	A	C6-N6	-6.86	1.28	1.33
25	BB	1907	G	O3'-P	-6.86	1.52	1.61
25	BB	2562	U	P-O5'	6.86	1.66	1.59
25	BB	1193	G	C3'-O3'	-6.86	1.32	1.42
25	BB	1309	G	C6-N1	-6.86	1.34	1.39
25	BB	1424	G	C2'-C1'	6.86	1.60	1.53
25	BB	2036	C	N3-C4	-6.86	1.29	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AE	1	G	C4'-O4'	-6.86	1.36	1.45
3	A1	812	G	C8-N7	6.86	1.35	1.30
3	A1	959	A	N7-C5	6.86	1.43	1.39
25	BB	264	C	O3'-P	6.86	1.69	1.61
25	BB	1178	C	O4'-C1'	6.86	1.50	1.41
25	BB	1453	A	N3-C4	6.86	1.39	1.34
3	A1	447	G	C5'-C4'	6.86	1.59	1.51
25	BB	253	C	N1-C6	6.86	1.41	1.37
25	BB	1504	A	N9-C8	-6.86	1.32	1.37
25	BB	2827	C	C5'-C4'	6.86	1.59	1.51
3	A1	499	A	N9-C4	-6.86	1.33	1.37
3	A1	1272	G	C5'-C4'	6.86	1.59	1.51
25	BB	903	C	C4-C5	-6.86	1.37	1.43
25	BB	1927	A	C5'-C4'	6.86	1.59	1.51
25	BB	2429	G	C5-C4	6.86	1.43	1.38
25	BB	2709	G	C5'-C4'	6.86	1.59	1.51
3	A1	1035	A	C3'-C2'	6.86	1.60	1.52
25	BB	515	A	C6-N1	-6.86	1.30	1.35
25	BB	1467	U	C4-C5	6.86	1.49	1.43
25	BB	2784	U	O3'-P	-6.86	1.52	1.61
3	A1	580	C	C5-C6	6.85	1.39	1.34
25	BB	502	A	N9-C4	-6.85	1.33	1.37
1	AE	73	A	C6-N6	-6.85	1.28	1.33
3	A1	415	A	O4'-C1'	-6.85	1.32	1.41
3	A1	468	A	P-O5'	6.85	1.66	1.59
3	A1	731	G	N1-C2	-6.85	1.32	1.37
3	A1	1164	G	N3-C4	6.85	1.40	1.35
3	A1	1505	G	C2-N2	-6.85	1.27	1.34
25	BB	2070	A	P-O5'	6.85	1.66	1.59
1	AA	9	A	N3-C4	6.85	1.39	1.34
3	A1	1207	G	C8-N7	-6.85	1.26	1.30
1	AA	24	G	N7-C5	6.85	1.43	1.39
1	AE	41	U	P-O5'	-6.85	1.52	1.59
3	A1	736	C	P-O5'	6.85	1.66	1.59
24	BA	27	C	C4-C5	-6.85	1.37	1.43
25	BB	633	A	C6-N1	-6.85	1.30	1.35
25	BB	1994	C	C4-N4	-6.85	1.27	1.33
25	BB	2762	C	C4-N4	-6.85	1.27	1.33
25	BB	1608	A	N1-C2	-6.85	1.28	1.34
25	BB	2744	G	C4'-C3'	6.85	1.60	1.53
3	A1	558	G	P-O5'	6.85	1.66	1.59
3	A1	569	C	O3'-P	-6.85	1.52	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	333	G	C6-N1	-6.85	1.34	1.39
3	A1	629	A	C6-N1	-6.84	1.30	1.35
3	A1	664	G	C4'-O4'	-6.84	1.36	1.45
3	A1	1516	G	N9-C8	6.84	1.42	1.37
25	BB	514	A	P-O5'	6.84	1.66	1.59
25	BB	730	A	N3-C4	-6.84	1.30	1.34
25	BB	1500	G	N1-C2	-6.84	1.32	1.37
25	BB	2437	G	O3'-P	-6.84	1.52	1.61
3	A1	1067	A	N7-C5	6.84	1.43	1.39
3	A1	1420	U	C5-C6	6.84	1.40	1.34
25	BB	1039	A	N7-C5	6.84	1.43	1.39
25	BB	1909	C	C4-N4	-6.84	1.27	1.33
25	BB	2212	A	N9-C8	6.84	1.43	1.37
3	A1	39	G	C6-N1	-6.84	1.34	1.39
3	A1	1192	C	C4-N4	-6.84	1.27	1.33
25	BB	89	A	C6-N6	-6.84	1.28	1.33
25	BB	2462	C	C4-N4	-6.84	1.27	1.33
25	BB	2583	G	C5-C6	6.84	1.49	1.42
1	AE	23	A	C6-N6	-6.84	1.28	1.33
1	AE	70	C	C4-N4	-6.84	1.27	1.33
2	AM	3	U	C4-C5	6.84	1.49	1.43
3	A1	128	G	N1-C2	-6.84	1.32	1.37
3	A1	190	A	C6-N1	-6.84	1.30	1.35
3	A1	1224	U	C2-N3	-6.84	1.32	1.37
25	BB	51	G	C5-C4	-6.84	1.33	1.38
25	BB	1048	A	N7-C5	6.84	1.43	1.39
25	BB	1623	G	P-O5'	-6.84	1.52	1.59
25	BB	2286	G	C2-N2	-6.84	1.27	1.34
39	BP	47	GLY	N-CA	6.84	1.56	1.46
3	A1	25	C	O3'-P	-6.84	1.52	1.61
3	A1	86	G	C6-N1	-6.84	1.34	1.39
3	A1	619	U	N3-C4	-6.84	1.32	1.38
25	BB	2655	G	C2-N2	-6.84	1.27	1.34
25	BB	2862	G	C2-N2	-6.84	1.27	1.34
3	A1	382	A	N3-C4	6.84	1.39	1.34
3	A1	1357	A	C6-N6	-6.84	1.28	1.33
25	BB	462	C	N1-C6	6.84	1.41	1.37
25	BB	1622	G	N3-C4	6.84	1.40	1.35
1	AE	5	A	C4'-O4'	-6.83	1.36	1.45
24	BA	114	C	C4-N4	-6.83	1.27	1.33
25	BB	2205	A	C5-C4	-6.83	1.33	1.38
3	A1	194	C	C4-C5	-6.83	1.37	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	704	A	C5'-C4'	6.83	1.59	1.51
3	A1	89	U	C4'-C3'	-6.83	1.45	1.53
3	A1	175	C	N1-C6	-6.83	1.33	1.37
3	A1	699	C	C4-N4	-6.83	1.27	1.33
25	BB	567	U	C4'-O4'	-6.83	1.36	1.45
25	BB	1549	A	C6-N6	-6.83	1.28	1.33
25	BB	2265	U	N3-C4	-6.83	1.32	1.38
3	A1	300	A	C2-N3	-6.83	1.27	1.33
3	A1	901	A	C5-C4	-6.83	1.33	1.38
3	A1	1501	C	N3-C4	-6.83	1.29	1.33
25	BB	1174	U	O4'-C1'	6.83	1.50	1.41
25	BB	2203	U	C4-C5	6.83	1.49	1.43
3	A1	1073	U	O3'-P	-6.83	1.52	1.61
3	A1	1380	U	C4'-C3'	6.83	1.60	1.53
25	BB	2132	U	C4-C5	6.83	1.49	1.43
25	BB	726	G	N7-C5	6.83	1.43	1.39
25	BB	1469	A	P-O5'	6.83	1.66	1.59
25	BB	2574	G	C8-N7	-6.83	1.26	1.30
3	A1	59	A	P-O5'	6.83	1.66	1.59
3	A1	952	U	C5'-C4'	6.83	1.59	1.51
25	BB	188	G	C2-N3	-6.83	1.27	1.32
25	BB	1669	A	C4'-C3'	-6.83	1.45	1.53
1	AA	54	U	C5'-C4'	-6.82	1.43	1.51
3	A1	1257	A	C5-C4	-6.82	1.33	1.38
3	A1	1396	A	O4'-C1'	6.82	1.50	1.41
3	A1	1432	G	C2-N2	-6.82	1.27	1.34
25	BB	1421	G	C2-N2	-6.82	1.27	1.34
25	BB	1579	A	C5-C6	6.82	1.47	1.41
25	BB	1729	U	N1-C6	6.82	1.44	1.38
25	BB	2211	A	C8-N7	6.82	1.36	1.31
1	AP	14	A	N9-C4	6.82	1.42	1.37
3	A1	62	U	N1-C6	6.82	1.44	1.38
3	A1	357	G	N7-C5	6.82	1.43	1.39
3	A1	412	A	C5'-C4'	6.82	1.59	1.51
3	A1	498	A	C5-C4	-6.82	1.33	1.38
3	A1	298	A	C6-N6	-6.82	1.28	1.33
3	A1	796	C	C2-N3	-6.82	1.30	1.35
3	A1	1297	G	P-O5'	6.82	1.66	1.59
3	A1	1302	C	O3'-P	-6.82	1.52	1.61
25	BB	203	A	C8-N7	6.82	1.36	1.31
25	BB	803	U	N1-C2	6.82	1.44	1.38
25	BB	1738	G	N7-C5	6.82	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2736	A	C2'-O2'	6.82	1.50	1.41
1	AE	18	G	C2'-O2'	6.82	1.50	1.41
25	BB	769	U	C2'-C1'	6.82	1.60	1.53
25	BB	1252	G	C3'-C2'	6.82	1.60	1.52
25	BB	1558	C	C3'-C2'	6.82	1.60	1.52
3	A1	953	G	C6-N1	-6.82	1.34	1.39
3	A1	960	U	C5'-C4'	6.82	1.59	1.51
3	A1	1069	C	C4-N4	-6.82	1.27	1.33
25	BB	886	A	C5-C4	-6.82	1.33	1.38
25	BB	1913	A	C4'-O4'	-6.82	1.36	1.45
3	A1	64	G	C2'-C1'	-6.82	1.45	1.53
3	A1	209	U	C3'-C2'	6.82	1.60	1.52
3	A1	1216	A	C3'-C2'	6.82	1.60	1.52
3	A1	1470	U	N3-C4	-6.82	1.32	1.38
25	BB	246	C	C2'-C1'	-6.82	1.45	1.53
25	BB	533	G	C8-N7	-6.82	1.26	1.30
25	BB	2371	G	N1-C2	-6.82	1.32	1.37
25	BB	2885	G	C2-N2	-6.82	1.27	1.34
25	BB	2897	U	N3-C4	-6.82	1.32	1.38
3	A1	722	G	N7-C5	6.81	1.43	1.39
3	A1	873	A	C6-N1	-6.81	1.30	1.35
25	BB	656	G	O4'-C1'	-6.81	1.32	1.41
25	BB	2379	G	C2-N2	-6.81	1.27	1.34
25	BB	2838	G	C2-N2	-6.81	1.27	1.34
3	A1	256	U	C4-C5	6.81	1.49	1.43
3	A1	461	A	C5-C4	-6.81	1.33	1.38
25	BB	998	C	N1-C6	-6.81	1.33	1.37
25	BB	1827	U	C4-O4	-6.81	1.18	1.23
3	A1	22	G	P-O5'	6.81	1.66	1.59
3	A1	560	A	N3-C4	6.81	1.39	1.34
3	A1	601	G	N9-C8	-6.81	1.33	1.37
3	A1	663	A	C6-N6	-6.81	1.28	1.33
3	A1	664	G	C8-N7	-6.81	1.26	1.30
3	A1	1287	A	C2-N3	-6.81	1.27	1.33
25	BB	1158	C	C2'-C1'	-6.81	1.45	1.53
3	A1	240	G	N9-C8	-6.81	1.33	1.37
25	BB	1568	G	C8-N7	6.81	1.35	1.30
25	BB	1749	A	C5-C4	-6.81	1.33	1.38
25	BB	1801	A	N9-C8	-6.81	1.32	1.37
25	BB	2201	G	O3'-P	-6.81	1.52	1.61
25	BB	2301	C	N1-C6	6.81	1.41	1.37
25	BB	2378	A	C2'-C1'	6.81	1.60	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	173	U	C5'-C4'	6.81	1.59	1.51
3	A1	1232	U	C5-C6	6.81	1.40	1.34
25	BB	866	A	C6-N6	-6.81	1.28	1.33
25	BB	2127	G	O3'-P	-6.81	1.52	1.61
25	BB	2480	C	N3-C4	-6.81	1.29	1.33
3	A1	753	A	C6-N1	-6.81	1.30	1.35
3	A1	838	G	P-O5'	6.81	1.66	1.59
3	A1	959	A	N1-C2	-6.81	1.28	1.34
25	BB	2	G	N1-C2	-6.81	1.32	1.37
25	BB	149	A	C4'-C3'	6.81	1.60	1.53
25	BB	711	G	C5'-C4'	6.81	1.59	1.51
25	BB	1063	G	C2'-C1'	-6.81	1.45	1.53
25	BB	1457	U	C4-C5	6.81	1.49	1.43
3	A1	563	A	N9-C8	6.80	1.43	1.37
3	A1	993	G	C5-C6	6.80	1.49	1.42
3	A1	1054	C	C4-N4	-6.80	1.27	1.33
25	BB	232	G	P-O5'	-6.80	1.52	1.59
25	BB	492	A	N7-C5	6.80	1.43	1.39
25	BB	617	G	C2-N2	-6.80	1.27	1.34
25	BB	1272	A	N7-C5	6.80	1.43	1.39
25	BB	1689	A	C3'-C2'	6.80	1.60	1.52
25	BB	2431	U	O3'-P	-6.80	1.52	1.61
1	AA	9	A	N9-C4	6.80	1.42	1.37
1	AP	27	C	N3-C4	-6.80	1.29	1.33
1	AE	10	G	N1-C2	-6.80	1.32	1.37
3	A1	1170	A	C6-N6	-6.80	1.28	1.33
25	BB	191	A	N9-C4	-6.80	1.33	1.37
25	BB	1634	A	O3'-P	-6.80	1.52	1.61
25	BB	2641	G	C5'-C4'	6.80	1.59	1.51
25	BB	2888	C	N3-C4	-6.80	1.29	1.33
55	B6	13	ARG	CZ-NH2	-6.80	1.24	1.33
3	A1	1457	G	C2-N2	-6.80	1.27	1.34
25	BB	342	A	C3'-O3'	6.80	1.51	1.42
25	BB	528	A	N1-C2	-6.80	1.28	1.34
3	A1	537	G	P-O5'	-6.80	1.52	1.59
25	BB	682	G	N3-C4	6.80	1.40	1.35
25	BB	780	G	N7-C5	6.80	1.43	1.39
25	BB	1383	A	N7-C5	6.80	1.43	1.39
25	BB	2503	A	N3-C4	6.80	1.39	1.34
3	A1	363	A	N3-C4	6.80	1.39	1.34
3	A1	471	U	C4'-O4'	-6.80	1.36	1.45
3	A1	488	C	C2-N3	-6.80	1.30	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	297	G	C6-N1	-6.80	1.34	1.39
25	BB	680	C	C4'-C3'	6.80	1.60	1.53
25	BB	1954	G	C2-N2	-6.80	1.27	1.34
3	A1	710	G	N7-C5	6.79	1.43	1.39
3	A1	1312	G	C5-C6	6.79	1.49	1.42
25	BB	597	G	O3'-P	-6.79	1.52	1.61
25	BB	1414	C	C2'-C1'	6.79	1.60	1.53
25	BB	2334	U	P-O5'	6.79	1.66	1.59
3	A1	431	A	N7-C5	6.79	1.43	1.39
25	BB	302	C	C3'-C2'	6.79	1.60	1.52
25	BB	335	C	N1-C2	6.79	1.47	1.40
25	BB	512	G	N1-C2	-6.79	1.32	1.37
25	BB	730	A	C6-N1	-6.79	1.30	1.35
25	BB	755	U	C5-C6	6.79	1.40	1.34
25	BB	880	G	N7-C5	6.79	1.43	1.39
25	BB	895	U	P-O5'	6.79	1.66	1.59
25	BB	2110	G	C2-N2	-6.79	1.27	1.34
25	BB	2535	G	C8-N7	-6.79	1.26	1.30
3	A1	369	G	C3'-O3'	-6.79	1.32	1.42
3	A1	593	U	C4-C5	6.79	1.49	1.43
25	BB	966	G	P-O5'	6.79	1.66	1.59
3	A1	1359	C	C4-N4	-6.79	1.27	1.33
25	BB	315	G	C5-C6	6.79	1.49	1.42
3	A1	1289	A	C6-N6	-6.79	1.28	1.33
3	A1	1331	G	C6-O6	6.79	1.30	1.24
3	A1	1438	G	C2-N2	-6.79	1.27	1.34
25	BB	617	G	N3-C4	6.79	1.40	1.35
25	BB	725	G	N7-C5	6.79	1.43	1.39
25	BB	1356	G	C6-N1	-6.79	1.34	1.39
25	BB	2095	A	N1-C2	-6.79	1.28	1.34
25	BB	2468	A	C6-N1	-6.79	1.30	1.35
25	BB	2695	U	C5-C6	6.79	1.40	1.34
3	A1	1190	G	N1-C2	-6.79	1.32	1.37
25	BB	1354	A	N3-C4	-6.79	1.30	1.34
25	BB	2889	C	C2-O2	-6.79	1.18	1.24
3	A1	1438	G	O4'-C1'	6.79	1.50	1.41
3	A1	1525	G	C6-N1	-6.79	1.34	1.39
25	BB	491	G	O3'-P	-6.79	1.53	1.61
25	BB	2830	C	C2-O2	-6.79	1.18	1.24
1	AE	14	A	C6-N1	-6.78	1.30	1.35
3	A1	558	G	C3'-O3'	6.78	1.51	1.42
3	A1	755	G	N3-C4	6.78	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	778	G	C2-N2	-6.78	1.27	1.34
25	BB	553	G	C5'-C4'	6.78	1.59	1.51
25	BB	2518	A	C6-N1	-6.78	1.30	1.35
3	A1	1154	G	C2-N2	-6.78	1.27	1.34
25	BB	541	A	C6-N6	-6.78	1.28	1.33
25	BB	897	C	C4-C5	-6.78	1.37	1.43
25	BB	2235	G	N1-C2	-6.78	1.32	1.37
3	A1	48	C	N3-C4	-6.78	1.29	1.33
25	BB	10	A	C5-C6	6.78	1.47	1.41
25	BB	905	A	N9-C4	-6.78	1.33	1.37
25	BB	1503	A	N9-C8	-6.78	1.32	1.37
25	BB	2508	G	C3'-O3'	6.78	1.51	1.42
25	BB	2881	U	P-O5'	6.78	1.66	1.59
27	BD	105	ARG	CZ-NH1	-6.78	1.24	1.33
25	BB	1582	C	N3-C4	6.78	1.38	1.33
3	A1	328	C	C4-C5	-6.78	1.37	1.43
3	A1	1120	C	C2'-C1'	6.78	1.60	1.53
25	BB	379	G	O3'-P	-6.78	1.53	1.61
25	BB	682	G	N7-C5	6.78	1.43	1.39
25	BB	2058	A	N9-C8	6.78	1.43	1.37
25	BB	2254	C	C3'-C2'	6.78	1.60	1.52
25	BB	2289	G	C2-N3	-6.78	1.27	1.32
3	A1	50	A	N7-C5	6.78	1.43	1.39
3	A1	181	A	C5-C4	-6.78	1.34	1.38
25	BB	98	G	C6-N1	-6.78	1.34	1.39
25	BB	895	U	C2'-O2'	6.78	1.50	1.41
25	BB	1059	G	C5-C6	6.78	1.49	1.42
25	BB	1122	G	C8-N7	-6.78	1.26	1.30
25	BB	1591	A	C5-C4	6.78	1.43	1.38
25	BB	740	C	O3'-P	-6.77	1.53	1.61
25	BB	772	C	N3-C4	-6.77	1.29	1.33
25	BB	1120	G	N7-C5	-6.77	1.35	1.39
25	BB	2380	C	C3'-C2'	6.77	1.60	1.52
3	A1	1403	C	C5-C6	6.77	1.39	1.34
25	BB	1010	A	C5-C6	6.77	1.47	1.41
25	BB	1673	G	C2-N2	-6.77	1.27	1.34
25	BB	2104	C	N3-C4	-6.77	1.29	1.33
25	BB	2290	G	C5-C4	-6.77	1.33	1.38
25	BB	2356	U	C5-C6	6.77	1.40	1.34
25	BB	2713	U	N1-C2	6.77	1.44	1.38
3	A1	1286	U	C2-N3	6.77	1.42	1.37
25	BB	185	G	C2-N2	-6.77	1.27	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1288	G	N1-C2	-6.77	1.32	1.37
25	BB	1596	A	C6-N6	-6.77	1.28	1.33
25	BB	1875	G	C2-N2	-6.77	1.27	1.34
25	BB	2319	G	O3'-P	-6.77	1.53	1.61
1	AP	74	C	C2-O2	-6.77	1.18	1.24
3	A1	987	G	N9-C4	-6.77	1.32	1.38
25	BB	726	G	N3-C4	6.77	1.40	1.35
25	BB	1962	C	C4-C5	-6.77	1.37	1.43
37	BN	265	PHE	CG-CD1	6.77	1.49	1.38
1	AE	23	A	C6-N1	-6.77	1.30	1.35
3	A1	309	A	C8-N7	6.77	1.36	1.31
3	A1	1087	G	C5-C4	6.77	1.43	1.38
25	BB	1873	G	P-O5'	-6.77	1.52	1.59
3	A1	44	A	C6-N6	-6.77	1.28	1.33
3	A1	1015	G	N7-C5	6.77	1.43	1.39
25	BB	24	G	C2-N2	-6.77	1.27	1.34
3	A1	168	G	N9-C8	6.76	1.42	1.37
25	BB	985	C	C4-N4	-6.76	1.27	1.33
25	BB	1748	C	C3'-C2'	-6.76	1.45	1.52
25	BB	2360	G	N9-C8	-6.76	1.33	1.37
25	BB	2602	A	C4'-C3'	-6.76	1.45	1.53
25	BB	977	G	O4'-C1'	6.76	1.50	1.41
1	AE	48	C	N3-C4	-6.76	1.29	1.33
3	A1	1181	G	N1-C2	-6.76	1.32	1.37
25	BB	60	G	C4'-C3'	6.76	1.60	1.53
54	B5	98	GLY	N-CA	6.76	1.56	1.46
1	AE	59	U	C3'-C2'	6.76	1.60	1.52
3	A1	152	A	C6-N6	-6.76	1.28	1.33
24	BA	13	G	C2-N2	-6.76	1.27	1.34
25	BB	473	G	N9-C4	-6.76	1.32	1.38
25	BB	1356	G	C2-N2	-6.76	1.27	1.34
3	A1	740	U	C2-O2	6.76	1.28	1.22
40	BQ	52	ARG	CZ-NH2	-6.76	1.24	1.33
1	AP	56	C	N3-C4	-6.76	1.29	1.33
3	A1	1414	U	C4'-C3'	6.76	1.60	1.53
25	BB	97	C	C4-C5	-6.76	1.37	1.43
25	BB	1008	A	C5'-C4'	6.76	1.59	1.51
25	BB	2050	C	C4-C5	-6.76	1.37	1.43
25	BB	2111	U	N3-C4	-6.76	1.32	1.38
3	A1	509	A	C6-N1	-6.75	1.30	1.35
3	A1	768	A	C6-N6	-6.75	1.28	1.33
25	BB	116	C	O4'-C1'	6.75	1.50	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1236	G	C2-N2	-6.75	1.27	1.34
3	A1	1237	C	N3-C4	-6.75	1.29	1.33
25	BB	136	G	C4'-C3'	6.75	1.60	1.53
25	BB	450	G	N9-C4	6.75	1.43	1.38
25	BB	1005	C	N1-C6	6.75	1.41	1.37
25	BB	2153	C	C4'-C3'	-6.75	1.45	1.53
3	A1	348	G	C5'-C4'	6.75	1.59	1.51
3	A1	590	U	C5'-C4'	6.75	1.59	1.51
3	A1	644	U	C2-O2	6.75	1.28	1.22
3	A1	1136	C	P-O5'	-6.75	1.52	1.59
25	BB	430	A	N7-C5	6.75	1.43	1.39
25	BB	941	A	C5'-C4'	6.75	1.59	1.51
1	AE	29	A	C5-C4	-6.75	1.34	1.38
3	A1	1013	G	C5'-C4'	6.75	1.59	1.51
24	BA	46	A	N9-C4	-6.75	1.33	1.37
25	BB	243	U	O3'-P	-6.75	1.53	1.61
25	BB	761	A	C8-N7	6.75	1.36	1.31
1	AP	43	G	C2-N2	-6.75	1.27	1.34
3	A1	1000	A	C3'-C2'	6.75	1.60	1.52
25	BB	424	G	C6-O6	-6.75	1.18	1.24
25	BB	975	A	C5'-C4'	6.75	1.59	1.51
25	BB	1782	U	N1-C2	6.75	1.44	1.38
3	A1	585	G	C4'-O4'	-6.75	1.36	1.45
25	BB	8	C	C2-N3	6.75	1.41	1.35
25	BB	669	G	N1-C2	-6.75	1.32	1.37
25	BB	838	C	C4-C5	-6.75	1.37	1.43
25	BB	1664	A	N3-C4	6.75	1.38	1.34
1	AE	42	G	N1-C2	-6.75	1.32	1.37
3	A1	435	A	C6-N6	-6.75	1.28	1.33
3	A1	1376	U	C5-C6	6.75	1.40	1.34
25	BB	997	G	C3'-C2'	-6.75	1.45	1.52
25	BB	1231	U	O3'-P	-6.75	1.53	1.61
25	BB	2224	G	C2-N2	-6.75	1.27	1.34
3	A1	1390	U	N1-C6	6.74	1.44	1.38
25	BB	1176	U	C4'-C3'	6.74	1.60	1.53
25	BB	1530	G	C2-N2	-6.74	1.27	1.34
3	A1	386	C	C2'-C1'	-6.74	1.46	1.53
3	A1	547	A	C6-N6	-6.74	1.28	1.33
3	A1	621	A	N9-C8	6.74	1.43	1.37
3	A1	1278	G	C8-N7	-6.74	1.26	1.30
25	BB	219	A	N9-C4	-6.74	1.33	1.37
25	BB	300	A	N7-C5	6.74	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1031	G	C2'-C1'	6.74	1.60	1.53
25	BB	1300	G	N1-C2	-6.74	1.32	1.37
25	BB	1766	G	C2-N2	-6.74	1.27	1.34
25	BB	1952	A	C2'-C1'	-6.74	1.46	1.53
25	BB	2667	C	N1-C6	6.74	1.41	1.37
25	BB	2707	U	N1-C2	6.74	1.44	1.38
25	BB	2848	G	C2-N2	-6.74	1.27	1.34
3	A1	835	U	C2'-O2'	6.74	1.50	1.41
25	BB	818	G	C6-N1	-6.74	1.34	1.39
25	BB	1318	U	O3'-P	-6.74	1.53	1.61
25	BB	1551	A	C3'-O3'	6.74	1.51	1.42
25	BB	1660	G	N1-C2	-6.74	1.32	1.37
25	BB	2167	U	C5-C6	6.74	1.40	1.34
24	BA	34	A	C6-N1	-6.74	1.30	1.35
24	BA	67	G	N1-C2	-6.74	1.32	1.37
3	A1	222	C	C4-N4	-6.74	1.27	1.33
3	A1	1532	U	C4'-O4'	-6.74	1.36	1.45
24	BA	83	G	C2'-O2'	6.74	1.50	1.41
25	BB	104	A	C6-N6	-6.74	1.28	1.33
25	BB	651	G	C6-N1	-6.74	1.34	1.39
25	BB	978	G	N9-C4	6.74	1.43	1.38
25	BB	1181	U	N1-C6	6.74	1.44	1.38
25	BB	1206	G	C3'-C2'	6.74	1.60	1.52
25	BB	2499	C	C4-N4	-6.74	1.27	1.33
25	BB	2617	U	C2'-C1'	6.74	1.60	1.53
25	BB	185	G	O4'-C1'	6.73	1.50	1.41
25	BB	199	A	C2'-C1'	6.73	1.60	1.53
25	BB	2099	U	P-O5'	6.73	1.66	1.59
25	BB	2192	U	C5'-C4'	6.73	1.59	1.51
25	BB	2411	A	N7-C5	-6.73	1.35	1.39
1	AA	38	A	N9-C8	6.73	1.43	1.37
1	AE	2	C	C4-C5	-6.73	1.37	1.43
1	AE	39	U	O3'-P	-6.73	1.53	1.61
25	BB	571	U	O3'-P	-6.73	1.53	1.61
25	BB	919	U	C2-N3	6.73	1.42	1.37
25	BB	1423	G	N1-C2	-6.73	1.32	1.37
25	BB	2742	G	N1-C2	-6.73	1.32	1.37
3	A1	1167	A	N1-C2	-6.73	1.28	1.34
25	BB	331	C	N1-C6	-6.73	1.33	1.37
25	BB	1931	U	C2-O2	6.73	1.28	1.22
25	BB	2187	U	C5'-C4'	6.73	1.59	1.51
3	A1	1478	U	P-O5'	6.73	1.66	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1497	G	C2'-O2'	-6.73	1.32	1.41
25	BB	2469	A	C4'-C3'	-6.73	1.45	1.53
3	A1	721	G	N3-C4	6.73	1.40	1.35
3	A1	1067	A	C2'-O2'	6.73	1.50	1.41
3	A1	1491	G	C2-N2	-6.73	1.27	1.34
25	BB	189	G	C2-N2	-6.73	1.27	1.34
25	BB	1155	A	N7-C5	6.73	1.43	1.39
25	BB	1772	A	C8-N7	-6.73	1.26	1.31
25	BB	1928	A	N3-C4	6.73	1.38	1.34
25	BB	2679	A	N7-C5	6.73	1.43	1.39
25	BB	2838	G	C5-C4	6.73	1.43	1.38
3	A1	1099	G	C2'-C1'	-6.73	1.46	1.53
25	BB	680	C	C4-N4	-6.73	1.27	1.33
25	BB	1009	A	N3-C4	6.73	1.38	1.34
25	BB	1311	G	C2-N2	-6.73	1.27	1.34
3	A1	1152	A	C6-N6	-6.72	1.28	1.33
3	A1	1416	G	C5-C6	6.72	1.49	1.42
1	AP	47	U	C5'-C4'	6.72	1.59	1.51
1	AE	18	G	N3-C4	6.72	1.40	1.35
3	A1	1385	G	N9-C4	-6.72	1.32	1.38
25	BB	719	C	C4'-C3'	-6.72	1.45	1.53
25	BB	1411	U	P-O5'	-6.72	1.53	1.59
25	BB	1475	G	C5'-C4'	6.72	1.59	1.51
25	BB	2570	G	C2-N2	-6.72	1.27	1.34
25	BB	2621	G	C8-N7	6.72	1.34	1.30
25	BB	2637	U	C4'-C3'	-6.72	1.45	1.53
50	B1	101	TYR	CE1-CZ	6.72	1.47	1.38
3	A1	489	C	P-O5'	-6.72	1.53	1.59
25	BB	450	G	N9-C8	6.72	1.42	1.37
3	A1	103	U	N1-C2	6.72	1.44	1.38
25	BB	2553	G	P-O5'	6.72	1.66	1.59
3	A1	623	C	C3'-C2'	6.72	1.60	1.52
3	A1	712	A	N3-C4	6.72	1.38	1.34
25	BB	942	G	C2-N3	-6.72	1.27	1.32
3	A1	300	A	O3'-P	-6.72	1.53	1.61
3	A1	507	C	P-O5'	-6.72	1.53	1.59
3	A1	845	A	C5-C4	-6.72	1.34	1.38
3	A1	964	A	C5-C4	-6.72	1.34	1.38
3	A1	1349	A	C6-N1	-6.72	1.30	1.35
3	A1	1423	G	N1-C2	-6.72	1.32	1.37
25	BB	157	C	N1-C6	6.72	1.41	1.37
25	BB	552	U	C2-O2	6.72	1.28	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1142	A	C6-N6	-6.72	1.28	1.33
25	BB	2268	A	N3-C4	-6.72	1.30	1.34
1	AP	33	U	C4'-O4'	-6.71	1.36	1.45
3	A1	667	G	N9-C4	-6.71	1.32	1.38
3	A1	1268	G	N7-C5	6.71	1.43	1.39
25	BB	565	C	C3'-C2'	6.71	1.60	1.52
25	BB	911	A	C6-N1	-6.71	1.30	1.35
25	BB	938	G	N3-C4	6.71	1.40	1.35
25	BB	2312	U	C2'-O2'	6.71	1.50	1.41
25	BB	2357	G	C5'-C4'	6.71	1.59	1.51
1	AP	65	G	C6-N1	-6.71	1.34	1.39
3	A1	1077	G	C2-N2	-6.71	1.27	1.34
25	BB	1131	G	C5'-C4'	6.71	1.59	1.51
25	BB	2145	C	N3-C4	-6.71	1.29	1.33
25	BB	2488	G	C5'-C4'	6.71	1.59	1.51
1	AE	27	C	C4-N4	-6.71	1.27	1.33
2	AM	17	U	C4-C5	6.71	1.49	1.43
3	A1	45	G	C2-N3	-6.71	1.27	1.32
3	A1	1133	G	C2-N3	6.71	1.38	1.32
25	BB	33	C	C4-N4	-6.71	1.27	1.33
25	BB	1957	C	C4-N4	-6.71	1.27	1.33
25	BB	2823	A	C6-N1	-6.71	1.30	1.35
3	A1	59	A	C5-C4	-6.71	1.34	1.38
25	BB	75	G	C2-N2	-6.71	1.27	1.34
25	BB	473	G	N1-C2	-6.71	1.32	1.37
25	BB	1480	C	N3-C4	-6.71	1.29	1.33
25	BB	1962	C	C4-N4	-6.71	1.27	1.33
25	BB	2286	G	O3'-P	-6.71	1.53	1.61
25	BB	2534	A	C5'-C4'	6.71	1.59	1.51
3	A1	95	C	C4-N4	-6.71	1.27	1.33
3	A1	504	C	C5'-C4'	6.71	1.59	1.51
3	A1	1002	G	N7-C5	6.71	1.43	1.39
3	A1	1113	C	C5-C6	6.71	1.39	1.34
3	A1	1494	G	C4'-O4'	-6.71	1.36	1.45
25	BB	37	C	C3'-C2'	6.71	1.60	1.52
25	BB	570	G	C5-C6	6.71	1.49	1.42
25	BB	906	U	C2-N3	6.71	1.42	1.37
25	BB	1245	G	C2-N2	-6.71	1.27	1.34
25	BB	1345	C	C4-C5	-6.71	1.37	1.43
25	BB	1519	G	C3'-C2'	6.71	1.60	1.52
25	BB	2022	U	C4-C5	6.71	1.49	1.43
3	A1	1158	C	N1-C6	-6.71	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1431	A	N7-C5	6.71	1.43	1.39
3	A1	893	C	N3-C4	-6.70	1.29	1.33
3	A1	1528	U	C4-O4	-6.70	1.18	1.23
24	BA	40	U	N3-C4	-6.70	1.32	1.38
25	BB	111	A	C2-N3	-6.70	1.27	1.33
25	BB	256	A	C4'-C3'	6.70	1.60	1.53
25	BB	915	C	P-O5'	6.70	1.66	1.59
25	BB	1547	C	P-O5'	-6.70	1.53	1.59
25	BB	2623	G	P-O5'	6.70	1.66	1.59
25	BB	2887	A	N3-C4	6.70	1.38	1.34
1	AE	59	U	C2'-C1'	-6.70	1.46	1.53
3	A1	92	U	C4'-C3'	6.70	1.60	1.53
3	A1	241	G	N1-C2	-6.70	1.32	1.37
3	A1	616	G	C2'-C1'	6.70	1.60	1.53
25	BB	2779	U	O3'-P	-6.70	1.53	1.61
3	A1	452	A	N9-C4	-6.70	1.33	1.37
25	BB	1389	G	N9-C4	-6.70	1.32	1.38
25	BB	1470	A	N3-C4	6.70	1.38	1.34
25	BB	1496	A	C5-C6	-6.70	1.35	1.41
1	AP	9	A	N9-C4	6.70	1.41	1.37
3	A1	193	C	N1-C6	6.70	1.41	1.37
3	A1	198	G	N9-C8	6.70	1.42	1.37
3	A1	1111	A	P-O5'	-6.70	1.53	1.59
25	BB	2623	G	C2-N2	-6.70	1.27	1.34
25	BB	2661	G	C3'-O3'	6.70	1.51	1.42
1	AA	9	A	N7-C5	6.70	1.43	1.39
3	A1	375	U	C5-C6	6.70	1.40	1.34
25	BB	403	U	C4-C5	6.70	1.49	1.43
25	BB	1107	G	C2-N2	-6.70	1.27	1.34
25	BB	1757	A	C6-N1	-6.70	1.30	1.35
1	AP	42	G	C8-N7	-6.70	1.26	1.30
25	BB	676	A	N1-C2	-6.70	1.28	1.34
25	BB	1179	G	C2-N2	-6.70	1.27	1.34
25	BB	1866	A	N9-C8	6.70	1.43	1.37
25	BB	2502	G	N7-C5	6.70	1.43	1.39
25	BB	2476	A	N9-C4	-6.69	1.33	1.37
25	BB	2695	U	N1-C2	6.69	1.44	1.38
3	A1	1431	A	C6-N6	-6.69	1.28	1.33
25	BB	179	C	C4'-O4'	-6.69	1.36	1.45
25	BB	215	G	N9-C4	-6.69	1.32	1.38
25	BB	1448	G	C2-N2	-6.69	1.27	1.34
25	BB	1747	U	C4'-O4'	-6.69	1.36	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1913	A	C6-N6	-6.69	1.28	1.33
25	BB	2431	U	P-O5'	-6.69	1.53	1.59
3	A1	665	A	N9-C4	6.69	1.41	1.37
3	A1	937	A	N9-C4	6.69	1.41	1.37
3	A1	1246	A	O3'-P	-6.69	1.53	1.61
24	BA	31	C	N1-C6	6.69	1.41	1.37
25	BB	78	U	C5'-C4'	6.69	1.59	1.51
25	BB	1715	G	N1-C2	-6.69	1.32	1.37
25	BB	1770	G	C6-N1	-6.69	1.34	1.39
25	BB	2637	U	N1-C6	-6.69	1.31	1.38
39	BP	51	GLY	CA-C	6.69	1.62	1.51
3	A1	1254	A	C4'-O4'	-6.69	1.36	1.45
3	A1	261	U	C5-C6	6.69	1.40	1.34
3	A1	1168	U	C2'-C1'	-6.69	1.46	1.53
3	A1	1193	G	N3-C4	6.69	1.40	1.35
25	BB	1677	A	N7-C5	6.69	1.43	1.39
25	BB	1860	G	N1-C2	-6.69	1.32	1.37
25	BB	2057	G	C2-N2	-6.69	1.27	1.34
25	BB	2413	G	C5'-C4'	6.69	1.59	1.51
32	BI	97	TYR	CE1-CZ	6.69	1.47	1.38
1	AP	56	C	C3'-O3'	6.69	1.51	1.42
25	BB	142	A	N3-C4	6.69	1.38	1.34
25	BB	1315	C	N3-C4	-6.69	1.29	1.33
25	BB	2611	C	P-O5'	6.69	1.66	1.59
3	A1	336	A	P-O5'	-6.68	1.53	1.59
3	A1	940	C	P-O5'	-6.68	1.53	1.59
25	BB	526	A	C5-C6	6.68	1.47	1.41
25	BB	583	G	N1-C2	-6.68	1.32	1.37
25	BB	944	C	N3-C4	-6.68	1.29	1.33
25	BB	1233	C	C1'-N1	6.68	1.58	1.48
25	BB	1587	G	C2-N2	-6.68	1.27	1.34
25	BB	2068	U	C1'-N1	6.68	1.58	1.48
25	BB	2336	A	C5'-C4'	6.68	1.59	1.51
25	BB	2413	G	C6-N1	-6.68	1.34	1.39
3	A1	373	A	N3-C4	6.68	1.38	1.34
3	A1	602	A	C4'-O4'	-6.68	1.36	1.45
3	A1	1388	C	C2'-C1'	-6.68	1.46	1.53
25	BB	479	A	N3-C4	6.68	1.38	1.34
25	BB	907	G	C8-N7	-6.68	1.26	1.30
25	BB	1395	A	C5-C6	6.68	1.47	1.41
25	BB	2879	A	C5'-C4'	6.68	1.59	1.51
43	BT	12	ARG	CZ-NH1	-6.68	1.24	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1120	C	C4-N4	-6.68	1.27	1.33
2	AM	5	U	C2'-O2'	6.68	1.50	1.41
3	A1	432	A	C1'-N9	6.68	1.58	1.48
3	A1	852	G	N9-C8	-6.68	1.33	1.37
3	A1	1356	G	C6-N1	-6.68	1.34	1.39
25	BB	176	A	C4'-C3'	6.68	1.60	1.53
25	BB	378	C	C4-C5	6.68	1.48	1.43
3	A1	1176	A	N3-C4	6.68	1.38	1.34
3	A1	1259	C	C5-C6	6.68	1.39	1.34
25	BB	1807	G	N1-C2	-6.68	1.32	1.37
1	AA	16	U	N1-C2	6.68	1.44	1.38
25	BB	245	G	N7-C5	-6.68	1.35	1.39
25	BB	297	G	N3-C4	6.68	1.40	1.35
25	BB	424	G	C5-C4	6.68	1.43	1.38
25	BB	910	A	C2'-O2'	-6.68	1.32	1.41
25	BB	1249	U	N1-C2	6.68	1.44	1.38
25	BB	1809	A	C6-N1	-6.68	1.30	1.35
25	BB	1815	A	C3'-C2'	6.68	1.60	1.52
25	BB	1850	G	N1-C2	-6.68	1.32	1.37
25	BB	1871	A	C3'-C2'	6.68	1.60	1.52
25	BB	2347	C	C5-C6	6.68	1.39	1.34
25	BB	2767	C	N1-C6	6.68	1.41	1.37
31	BH	9	ARG	CZ-NH1	-6.68	1.24	1.33
1	AA	12	U	N1-C2	6.67	1.44	1.38
25	BB	261	G	C5-C6	6.67	1.49	1.42
1	AP	32	C	C5'-C4'	6.67	1.59	1.51
3	A1	484	G	O3'-P	-6.67	1.53	1.61
3	A1	1338	G	C8-N7	-6.67	1.26	1.30
25	BB	2414	G	N9-C4	-6.67	1.32	1.38
25	BB	2648	G	N7-C5	6.67	1.43	1.39
25	BB	83	A	O3'-P	-6.67	1.53	1.61
25	BB	297	G	C5-C4	-6.67	1.33	1.38
25	BB	1348	C	P-O5'	-6.67	1.53	1.59
25	BB	1876	A	C4'-O4'	-6.67	1.36	1.45
25	BB	2518	A	O4'-C1'	6.67	1.50	1.41
1	AP	64	A	C6-N6	-6.67	1.28	1.33
3	A1	678	U	N3-C4	-6.67	1.32	1.38
3	A1	793	U	C2-N3	6.67	1.42	1.37
25	BB	947	A	N3-C4	6.67	1.38	1.34
25	BB	1825	U	C5'-C4'	6.67	1.59	1.51
3	A1	156	C	C3'-O3'	-6.67	1.32	1.42
25	BB	35	G	C2-N2	-6.67	1.27	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	38	A	C6-N6	-6.67	1.28	1.33
25	BB	2201	G	C6-N1	6.67	1.44	1.39
25	BB	2216	G	N9-C8	-6.67	1.33	1.37
25	BB	2450	A	C6-N6	-6.67	1.28	1.33
1	AE	32	C	C4-N4	-6.67	1.27	1.33
3	A1	666	G	C6-N1	-6.67	1.34	1.39
25	BB	65	U	C2-O2	6.67	1.28	1.22
25	BB	174	U	C4'-C3'	6.67	1.60	1.53
25	BB	1156	A	C5-C4	-6.67	1.34	1.38
25	BB	1937	A	O3'-P	-6.67	1.53	1.61
3	A1	752	G	N3-C4	6.67	1.40	1.35
25	BB	847	U	N1-C2	6.67	1.44	1.38
25	BB	2717	C	C5-C6	6.67	1.39	1.34
1	AP	48	C	P-O5'	-6.66	1.53	1.59
3	A1	342	C	C4-N4	-6.66	1.27	1.33
3	A1	462	G	N7-C5	6.66	1.43	1.39
3	A1	1191	A	C3'-C2'	6.66	1.60	1.52
3	A1	1324	A	N7-C5	6.66	1.43	1.39
3	A1	1385	G	O3'-P	-6.66	1.53	1.61
3	A1	1397	C	N1-C6	-6.66	1.33	1.37
1	AA	30	G	C6-N1	-6.66	1.34	1.39
3	A1	266	G	C4'-O4'	-6.66	1.36	1.45
24	BA	105	G	C2-N2	-6.66	1.27	1.34
25	BB	312	G	N3-C4	6.66	1.40	1.35
25	BB	339	U	C2'-C1'	-6.66	1.46	1.53
25	BB	487	C	N3-C4	-6.66	1.29	1.33
25	BB	2279	G	N7-C5	6.66	1.43	1.39
49	BZ	98	ARG	CZ-NH2	-6.66	1.24	1.33
3	A1	389	A	N7-C5	6.66	1.43	1.39
3	A1	1042	A	N7-C5	6.66	1.43	1.39
24	BA	97	C	N1-C2	6.66	1.46	1.40
25	BB	66	C	C2'-O2'	6.66	1.50	1.41
25	BB	490	C	C5'-C4'	6.66	1.59	1.51
25	BB	1331	G	C4'-O4'	-6.66	1.36	1.45
25	BB	1449	G	N9-C8	6.66	1.42	1.37
1	AE	17	U	C3'-C2'	6.66	1.60	1.52
3	A1	668	G	N9-C4	6.66	1.43	1.38
3	A1	732	C	C4-C5	-6.66	1.37	1.43
3	A1	1012	A	C4'-O4'	-6.66	1.36	1.45
25	BB	48	G	C5'-C4'	6.66	1.59	1.51
25	BB	160	A	C6-N1	-6.66	1.30	1.35
25	BB	1619	G	N7-C5	6.66	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1945	G	C2-N2	-6.66	1.27	1.34
3	A1	1521	C	N3-C4	-6.66	1.29	1.33
25	BB	143	C	P-O5'	6.66	1.66	1.59
25	BB	1014	A	N7-C5	6.66	1.43	1.39
25	BB	2649	C	C3'-C2'	-6.66	1.45	1.52
3	A1	1067	A	N1-C2	-6.66	1.28	1.34
25	BB	467	G	C3'-C2'	6.66	1.60	1.52
25	BB	1279	G	P-O5'	6.66	1.66	1.59
25	BB	1760	C	C5'-C4'	6.66	1.59	1.51
25	BB	2107	G	C6-N1	-6.66	1.34	1.39
25	BB	960	A	C5'-C4'	6.65	1.59	1.51
25	BB	1673	G	C5-C4	-6.65	1.33	1.38
24	BA	110	C	N3-C4	-6.65	1.29	1.33
25	BB	371	A	N3-C4	6.65	1.38	1.34
25	BB	1106	G	C2-N2	-6.65	1.27	1.34
25	BB	1315	C	P-O5'	-6.65	1.53	1.59
25	BB	1420	A	P-O5'	-6.65	1.53	1.59
25	BB	2639	A	C6-N6	6.65	1.39	1.33
1	AE	51	G	C3'-C2'	6.65	1.60	1.52
3	A1	711	G	P-O5'	6.65	1.66	1.59
3	A1	795	C	C4-N4	-6.65	1.27	1.33
3	A1	1050	G	C8-N7	-6.65	1.26	1.30
3	A1	1311	A	N3-C4	6.65	1.38	1.34
25	BB	901	C	N3-C4	-6.65	1.29	1.33
25	BB	1364	G	N9-C4	6.65	1.43	1.38
25	BB	2342	C	C4-N4	-6.65	1.27	1.33
25	BB	2885	G	C4'-C3'	-6.65	1.45	1.53
3	A1	141	G	O3'-P	-6.65	1.53	1.61
25	BB	146	A	C4'-O4'	-6.65	1.36	1.45
25	BB	589	U	P-O5'	-6.65	1.53	1.59
25	BB	1619	G	C2-N2	-6.65	1.27	1.34
25	BB	1901	A	C6-N1	-6.65	1.30	1.35
1	AE	57	G	N9-C4	-6.65	1.32	1.38
3	A1	889	A	O3'-P	-6.65	1.53	1.61
3	A1	1243	C	N1-C6	6.65	1.41	1.37
3	A1	1279	G	C3'-C2'	6.65	1.60	1.52
3	A1	1343	G	C4'-O4'	-6.65	1.36	1.45
25	BB	174	U	C5-C6	6.65	1.40	1.34
25	BB	196	A	C4'-C3'	6.65	1.60	1.53
25	BB	2286	G	C6-N1	-6.65	1.34	1.39
3	A1	1526	G	N3-C4	6.65	1.40	1.35
25	BB	213	A	N3-C4	6.65	1.38	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	510	C	C3'-C2'	6.65	1.60	1.52
3	A1	714	G	C5-C6	6.64	1.49	1.42
25	BB	661	A	C5'-C4'	6.64	1.59	1.51
25	BB	704	G	O3'-P	-6.64	1.53	1.61
25	BB	1727	C	O3'-P	-6.64	1.53	1.61
25	BB	1980	G	N7-C5	6.64	1.43	1.39
25	BB	2593	U	C5-C6	6.64	1.40	1.34
24	BA	36	C	C5'-C4'	6.64	1.59	1.51
24	BA	48	U	C5-C6	6.64	1.40	1.34
25	BB	30	G	O3'-P	-6.64	1.53	1.61
25	BB	2715	C	N3-C4	-6.64	1.29	1.33
1	AE	48	C	O3'-P	6.64	1.69	1.61
3	A1	337	G	C8-N7	-6.64	1.26	1.30
8	AG	89	ARG	CZ-NH2	-6.64	1.24	1.33
25	BB	784	G	N1-C2	-6.64	1.32	1.37
25	BB	1215	G	N7-C5	6.64	1.43	1.39
25	BB	2163	A	C5-C4	-6.64	1.34	1.38
52	B3	160	GLY	N-CA	6.64	1.56	1.46
3	A1	502	A	C2-N3	-6.64	1.27	1.33
3	A1	536	C	C3'-C2'	6.64	1.60	1.52
24	BA	21	G	P-O5'	-6.64	1.53	1.59
25	BB	276	U	N1-C2	6.64	1.44	1.38
25	BB	846	U	O4'-C1'	6.64	1.50	1.41
25	BB	1037	G	O3'-P	6.64	1.69	1.61
3	A1	959	A	C6-N1	-6.64	1.30	1.35
3	A1	1009	U	N1-C2	6.64	1.44	1.38
25	BB	1545	A	N1-C2	-6.64	1.28	1.34
3	A1	444	G	C5-C4	6.64	1.43	1.38
3	A1	1362	A	C6-N6	-6.64	1.28	1.33
25	BB	333	G	O4'-C1'	6.64	1.50	1.41
25	BB	405	U	P-O5'	6.64	1.66	1.59
25	BB	1414	C	N1-C6	6.64	1.41	1.37
25	BB	2071	A	N9-C4	-6.64	1.33	1.37
25	BB	2759	G	P-O5'	-6.64	1.53	1.59
25	BB	2878	U	C3'-C2'	6.64	1.60	1.52
3	A1	694	A	N7-C5	-6.63	1.35	1.39
3	A1	1404	C	O4'-C1'	6.63	1.50	1.41
25	BB	274	C	P-O5'	-6.63	1.53	1.59
25	BB	1150	C	P-O5'	6.63	1.66	1.59
25	BB	1385	A	N9-C4	6.63	1.41	1.37
25	BB	2487	G	C4'-O4'	-6.63	1.36	1.45
25	BB	2768	U	P-O5'	-6.63	1.53	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1077	G	N1-C2	-6.63	1.32	1.37
1	AA	75	C	C4-N4	-6.63	1.27	1.33
3	A1	17	U	P-O5'	6.63	1.66	1.59
25	BB	242	G	C2-N2	-6.63	1.27	1.34
25	BB	331	C	P-O5'	6.63	1.66	1.59
25	BB	1574	C	C5'-C4'	6.63	1.59	1.51
25	BB	1860	G	N3-C4	6.63	1.40	1.35
25	BB	1912	A	C5'-C4'	6.63	1.59	1.51
25	BB	2482	A	N3-C4	6.63	1.38	1.34
1	AA	56	C	C5'-C4'	6.63	1.59	1.51
3	A1	343	U	C5'-C4'	6.63	1.59	1.51
3	A1	343	U	C5-C6	6.63	1.40	1.34
3	A1	483	C	O3'-P	-6.63	1.53	1.61
25	BB	523	C	C4-N4	-6.63	1.27	1.33
25	BB	628	G	C8-N7	6.63	1.34	1.30
25	BB	976	G	P-O5'	6.63	1.66	1.59
25	BB	1259	G	O3'-P	-6.63	1.53	1.61
25	BB	1896	G	N9-C8	-6.63	1.33	1.37
25	BB	2692	G	N1-C2	-6.63	1.32	1.37
25	BB	2884	U	O3'-P	-6.63	1.53	1.61
1	AA	6	U	N1-C6	6.63	1.44	1.38
3	A1	58	C	N1-C6	6.63	1.41	1.37
3	A1	215	C	C4-N4	-6.63	1.27	1.33
25	BB	417	C	C2-N3	-6.63	1.30	1.35
55	B6	44	TYR	CE1-CZ	6.63	1.47	1.38
3	A1	782	A	C5-C4	-6.62	1.34	1.38
3	A1	1061	G	N1-C2	-6.62	1.32	1.37
25	BB	1039	A	C6-N6	-6.62	1.28	1.33
1	AP	66	A	N9-C4	6.62	1.41	1.37
3	A1	377	G	C8-N7	-6.62	1.26	1.30
3	A1	936	C	C4-N4	-6.62	1.27	1.33
25	BB	188	G	P-O5'	-6.62	1.53	1.59
25	BB	2137	U	C3'-C2'	-6.62	1.45	1.52
1	AA	19	G	N7-C5	6.62	1.43	1.39
25	BB	16	C	C4-C5	6.62	1.48	1.43
25	BB	789	A	N7-C5	6.62	1.43	1.39
25	BB	1468	U	C4-C5	6.62	1.49	1.43
25	BB	2556	C	C4'-C3'	-6.62	1.45	1.53
25	BB	2671	G	C2-N3	6.62	1.38	1.32
3	A1	346	G	C5'-C4'	6.62	1.59	1.51
3	A1	1028	C	C2-N3	-6.62	1.30	1.35
15	AO	41	TYR	CD2-CE2	6.62	1.49	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	BA	56	G	C8-N7	6.62	1.34	1.30
25	BB	1969	A	O3'-P	-6.62	1.53	1.61
3	A1	158	G	C3'-O3'	6.62	1.51	1.42
3	A1	302	G	C3'-C2'	6.62	1.60	1.52
3	A1	587	G	N1-C2	-6.62	1.32	1.37
3	A1	1299	A	C4'-C3'	6.62	1.60	1.53
25	BB	271	G	C4'-O4'	-6.62	1.36	1.45
25	BB	657	U	P-O5'	-6.62	1.53	1.59
25	BB	846	U	C5-C6	6.62	1.40	1.34
25	BB	1007	C	O3'-P	-6.62	1.53	1.61
25	BB	1308	A	C4'-C3'	6.62	1.60	1.53
25	BB	1858	A	C5'-C4'	6.62	1.59	1.51
25	BB	1947	C	C4'-C3'	6.62	1.60	1.53
25	BB	2256	G	C2'-O2'	6.62	1.50	1.41
24	BA	41	G	C2-N2	-6.62	1.27	1.34
25	BB	2295	C	N3-C4	-6.62	1.29	1.33
3	A1	813	U	N1-C2	6.62	1.44	1.38
3	A1	1048	G	N3-C4	6.62	1.40	1.35
3	A1	1158	C	C5'-C4'	6.62	1.59	1.51
25	BB	743	A	N9-C8	-6.62	1.32	1.37
25	BB	933	A	C3'-C2'	6.62	1.60	1.52
25	BB	1166	G	C2-N2	-6.62	1.27	1.34
25	BB	1480	C	C4-N4	-6.62	1.27	1.33
25	BB	2163	A	N9-C4	6.62	1.41	1.37
25	BB	2445	G	N7-C5	6.62	1.43	1.39
3	A1	874	G	N9-C4	6.61	1.43	1.38
3	A1	1057	G	C2-N2	-6.61	1.27	1.34
25	BB	861	A	C5'-C4'	6.61	1.59	1.51
25	BB	1221	C	C2-O2	-6.61	1.18	1.24
25	BB	1275	A	O3'-P	-6.61	1.53	1.61
25	BB	1753	G	N9-C8	-6.61	1.33	1.37
25	BB	2240	U	N1-C2	6.61	1.44	1.38
24	BA	6	G	C6-O6	-6.61	1.18	1.24
25	BB	506	G	C4'-C3'	6.61	1.60	1.53
25	BB	2660	A	C6-N1	-6.61	1.30	1.35
3	A1	852	G	C5-C4	6.61	1.43	1.38
25	BB	375	G	N1-C2	-6.61	1.32	1.37
25	BB	1481	U	N1-C2	6.61	1.44	1.38
25	BB	1648	U	C5'-C4'	6.61	1.59	1.51
25	BB	2251	G	N1-C2	-6.61	1.32	1.37
25	BB	2428	G	N1-C2	-6.61	1.32	1.37
3	A1	1469	C	C4'-O4'	-6.61	1.36	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2864	G	C2-N2	-6.61	1.27	1.34
3	A1	164	G	C8-N7	-6.61	1.26	1.30
3	A1	336	A	N1-C2	-6.61	1.28	1.34
3	A1	1315	U	C5-C6	6.61	1.40	1.34
3	A1	1431	A	C5'-C4'	6.61	1.59	1.51
25	BB	173	A	N7-C5	6.61	1.43	1.39
25	BB	287	G	N9-C4	-6.61	1.32	1.38
25	BB	734	A	N9-C8	-6.61	1.32	1.37
25	BB	1815	A	O4'-C1'	6.61	1.50	1.41
25	BB	2427	C	C4-N4	-6.61	1.28	1.33
25	BB	2627	G	N1-C2	-6.61	1.32	1.37
42	BS	49	ARG	CZ-NH2	-6.61	1.24	1.33
3	A1	146	G	C6-N1	-6.61	1.34	1.39
3	A1	476	U	C5-C6	6.61	1.40	1.34
3	A1	500	G	C2-N2	-6.61	1.27	1.34
25	BB	727	A	O3'-P	-6.61	1.53	1.61
25	BB	771	G	P-O5'	6.61	1.66	1.59
25	BB	918	A	N9-C8	6.61	1.43	1.37
25	BB	1097	U	N1-C6	6.61	1.43	1.38
25	BB	1618	A	O3'-P	-6.61	1.53	1.61
25	BB	2643	G	C6-N1	-6.61	1.34	1.39
38	BO	93	ARG	CZ-NH1	-6.61	1.24	1.33
1	AA	72	C	C4-N4	-6.60	1.28	1.33
25	BB	96	C	C4-N4	-6.60	1.28	1.33
25	BB	2725	A	C2-N3	6.60	1.39	1.33
3	A1	418	C	C5'-C4'	6.60	1.59	1.51
24	BA	35	C	N3-C4	-6.60	1.29	1.33
25	BB	961	C	C4-N4	-6.60	1.28	1.33
25	BB	2613	U	C4-O4	-6.60	1.18	1.23
25	BB	2769	U	C4-O4	-6.60	1.18	1.23
3	A1	389	A	P-O5'	-6.60	1.53	1.59
3	A1	1390	U	C4-O4	6.60	1.28	1.23
25	BB	391	A	C2-N3	-6.60	1.27	1.33
25	BB	579	G	N3-C4	6.60	1.40	1.35
25	BB	1669	A	N9-C4	6.60	1.41	1.37
25	BB	1944	U	C5-C6	6.60	1.40	1.34
25	BB	2043	C	N1-C2	-6.60	1.33	1.40
25	BB	2572	A	C6-N1	-6.60	1.30	1.35
3	A1	94	G	N7-C5	6.60	1.43	1.39
24	BA	37	C	P-O5'	6.60	1.66	1.59
25	BB	737	C	C2'-O2'	6.60	1.50	1.41
25	BB	1824	G	C5-C6	6.60	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2731	G	C3'-C2'	6.60	1.60	1.52
3	A1	649	A	C6-N6	-6.60	1.28	1.33
3	A1	747	A	N1-C2	-6.60	1.28	1.34
25	BB	182	A	N9-C4	-6.60	1.33	1.37
25	BB	502	A	C3'-C2'	6.60	1.60	1.52
25	BB	965	C	N3-C4	-6.60	1.29	1.33
25	BB	1688	U	O4'-C1'	-6.60	1.33	1.41
25	BB	1953	A	C2'-O2'	6.60	1.50	1.41
25	BB	2207	C	N1-C6	6.60	1.41	1.37
25	BB	613	A	C4'-C3'	-6.60	1.45	1.53
25	BB	2170	A	N7-C5	6.60	1.43	1.39
25	BB	2635	A	N3-C4	6.60	1.38	1.34
25	BB	2639	A	O3'-P	-6.60	1.53	1.61
3	A1	77	A	N1-C2	-6.59	1.28	1.34
3	A1	376	G	N7-C5	6.59	1.43	1.39
25	BB	50	U	C4'-C3'	6.59	1.60	1.53
25	BB	241	A	P-O5'	-6.59	1.53	1.59
25	BB	604	G	O3'-P	-6.59	1.53	1.61
25	BB	1813	G	N7-C5	6.59	1.43	1.39
3	A1	724	G	C2-N2	-6.59	1.27	1.34
3	A1	1171	A	C2-N3	-6.59	1.27	1.33
25	BB	2750	A	C5'-C4'	6.59	1.59	1.51
1	AE	53	G	P-O5'	6.59	1.66	1.59
3	A1	435	A	C6-N1	-6.59	1.30	1.35
3	A1	794	A	N1-C2	-6.59	1.28	1.34
6	AD	55	ARG	CZ-NH2	-6.59	1.24	1.33
25	BB	196	A	C5'-C4'	6.59	1.59	1.51
25	BB	1443	U	O3'-P	-6.59	1.53	1.61
28	BE	20	GLY	CA-C	6.59	1.62	1.51
3	A1	1024	G	C5-C4	6.59	1.43	1.38
25	BB	799	G	C2-N2	-6.59	1.27	1.34
25	BB	1935	G	C3'-C2'	6.59	1.60	1.52
25	BB	1938	A	C4'-O4'	-6.59	1.36	1.45
1	AP	13	C	C4-N4	-6.59	1.28	1.33
3	A1	14	U	O3'-P	-6.59	1.53	1.61
3	A1	1491	G	C6-N1	-6.59	1.34	1.39
24	BA	72	G	C6-O6	-6.59	1.18	1.24
25	BB	46	G	N3-C4	6.59	1.40	1.35
25	BB	512	G	C5'-C4'	6.59	1.59	1.51
25	BB	1276	A	N9-C4	-6.59	1.33	1.37
25	BB	141	G	N1-C2	-6.58	1.32	1.37
25	BB	203	A	C5'-C4'	6.58	1.59	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	507	A	N9-C4	-6.58	1.33	1.37
3	A1	100	G	C2-N2	-6.58	1.27	1.34
3	A1	887	G	C4'-O4'	-6.58	1.36	1.45
3	A1	1154	G	P-O5'	6.58	1.66	1.59
3	A1	1443	C	N3-C4	-6.58	1.29	1.33
3	A1	1447	A	N3-C4	6.58	1.38	1.34
24	BA	16	G	N7-C5	6.58	1.43	1.39
24	BA	60	C	N1-C6	6.58	1.41	1.37
25	BB	86	G	N1-C2	-6.58	1.32	1.37
25	BB	1296	G	C5-C6	6.58	1.49	1.42
25	BB	1423	G	C5-C4	-6.58	1.33	1.38
25	BB	1800	C	C5'-C4'	6.58	1.59	1.51
25	BB	2282	G	O3'-P	6.58	1.69	1.61
25	BB	2863	C	C4-N4	-6.58	1.28	1.33
25	BB	2877	G	C3'-C2'	6.58	1.60	1.52
1	AA	61	C	C2-N3	-6.58	1.30	1.35
1	AE	74	C	C4-N4	-6.58	1.28	1.33
3	A1	968	A	N1-C2	-6.58	1.28	1.34
25	BB	1339	G	C4'-O4'	-6.58	1.36	1.45
25	BB	2877	G	C8-N7	6.58	1.34	1.30
43	BT	47	TYR	CG-CD2	6.58	1.47	1.39
3	A1	120	A	C8-N7	6.58	1.36	1.31
3	A1	782	A	O3'-P	-6.58	1.53	1.61
3	A1	1503	A	C5'-C4'	6.58	1.59	1.51
25	BB	382	A	P-O5'	6.58	1.66	1.59
25	BB	1775	U	C4'-C3'	-6.58	1.46	1.53
25	BB	2135	A	C2-N3	6.58	1.39	1.33
25	BB	2470	G	N7-C5	6.58	1.43	1.39
3	A1	278	G	C2-N2	-6.58	1.27	1.34
3	A1	352	C	N3-C4	-6.58	1.29	1.33
25	BB	1213	A	N1-C2	-6.58	1.28	1.34
25	BB	1227	G	C2-N2	-6.58	1.27	1.34
25	BB	1932	A	N3-C4	6.58	1.38	1.34
25	BB	2053	G	N7-C5	6.58	1.43	1.39
25	BB	2247	A	C6-N6	-6.58	1.28	1.33
32	BI	88	ARG	CZ-NH1	-6.58	1.24	1.33
25	BB	2695	U	P-O5'	-6.58	1.53	1.59
25	BB	2849	U	C2'-C1'	-6.58	1.46	1.53
3	A1	305	G	C4'-O4'	-6.58	1.37	1.45
3	A1	1088	G	C2-N2	-6.58	1.27	1.34
3	A1	1170	A	C6-N1	-6.58	1.30	1.35
3	A1	1518	A	N1-C2	-6.58	1.28	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	49	A	N7-C5	6.58	1.43	1.39
25	BB	84	A	N3-C4	6.58	1.38	1.34
25	BB	227	A	C5'-C4'	6.58	1.59	1.51
25	BB	268	C	P-O5'	-6.58	1.53	1.59
25	BB	768	G	C8-N7	6.58	1.34	1.30
25	BB	1195	G	C4'-O4'	-6.58	1.37	1.45
25	BB	2366	A	C4'-C3'	-6.58	1.46	1.53
25	BB	2686	G	C2-N2	-6.58	1.27	1.34
3	A1	767	A	N3-C4	6.57	1.38	1.34
3	A1	880	C	C4'-C3'	-6.57	1.46	1.53
3	A1	1129	C	C5-C6	6.57	1.39	1.34
3	A1	1253	G	C8-N7	6.57	1.34	1.30
3	A1	1452	C	C4-N4	-6.57	1.28	1.33
25	BB	254	G	N7-C5	6.57	1.43	1.39
25	BB	498	G	O3'-P	-6.57	1.53	1.61
25	BB	1524	G	C2-N2	-6.57	1.27	1.34
25	BB	1714	U	C4-C5	6.57	1.49	1.43
25	BB	2659	G	C5-C4	-6.57	1.33	1.38
1	AE	18	G	C3'-C2'	-6.57	1.45	1.52
3	A1	681	A	C6-N1	-6.57	1.30	1.35
25	BB	471	A	N9-C8	-6.57	1.32	1.37
25	BB	560	C	C5-C6	6.57	1.39	1.34
25	BB	1055	G	O3'-P	-6.57	1.53	1.61
25	BB	2738	A	C6-N1	-6.57	1.30	1.35
1	AA	75	C	C4-C5	-6.57	1.37	1.43
1	AP	26	G	C2'-C1'	-6.57	1.46	1.53
3	A1	538	G	N7-C5	-6.57	1.35	1.39
25	BB	652	U	C2-N3	6.57	1.42	1.37
25	BB	666	A	C2'-C1'	-6.57	1.46	1.53
25	BB	858	G	N9-C8	6.57	1.42	1.37
25	BB	1663	G	N1-C2	-6.57	1.32	1.37
25	BB	2162	G	N9-C4	6.57	1.43	1.38
25	BB	1620	G	C6-N1	6.57	1.44	1.39
25	BB	2101	A	C2'-O2'	6.57	1.50	1.41
25	BB	2264	C	C2'-O2'	6.57	1.50	1.41
1	AP	62	A	C5'-C4'	6.57	1.59	1.51
3	A1	729	A	C4'-O4'	-6.57	1.37	1.45
3	A1	1051	C	O3'-P	-6.57	1.53	1.61
25	BB	1084	A	C5-C6	6.57	1.47	1.41
25	BB	1946	U	C5-C6	6.57	1.40	1.34
25	BB	2537	U	C5-C6	6.57	1.40	1.34
25	BB	2705	A	C5-C4	-6.57	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	341	C	C4'-C3'	6.57	1.60	1.53
3	A1	1198	G	C2-N2	-6.57	1.27	1.34
25	BB	203	A	N7-C5	-6.57	1.35	1.39
25	BB	227	A	N3-C4	6.57	1.38	1.34
25	BB	532	A	N3-C4	6.57	1.38	1.34
25	BB	843	G	N1-C2	-6.57	1.32	1.37
25	BB	1598	A	C5-C4	-6.57	1.34	1.38
25	BB	2324	U	N3-C4	-6.57	1.32	1.38
25	BB	2591	C	P-O5'	6.57	1.66	1.59
25	BB	84	A	C3'-O3'	-6.56	1.32	1.42
25	BB	165	A	C6-N6	-6.56	1.28	1.33
25	BB	663	G	C4'-O4'	-6.56	1.37	1.45
3	A1	320	A	C4'-O4'	-6.56	1.37	1.45
25	BB	247	G	C4'-O4'	-6.56	1.37	1.45
25	BB	457	A	C5-C6	6.56	1.47	1.41
25	BB	493	G	N3-C4	6.56	1.40	1.35
25	BB	988	A	P-O5'	-6.56	1.53	1.59
25	BB	1413	A	C6-N6	-6.56	1.28	1.33
25	BB	2351	G	O3'-P	-6.56	1.53	1.61
25	BB	2355	G	N9-C4	-6.56	1.32	1.38
3	A1	925	G	C6-N1	-6.56	1.34	1.39
25	BB	358	U	C2-O2	-6.56	1.16	1.22
25	BB	457	A	C5-C4	-6.56	1.34	1.38
25	BB	1087	G	C2-N2	-6.56	1.27	1.34
3	A1	221	C	C4-N4	-6.56	1.28	1.33
3	A1	918	A	C5'-C4'	6.56	1.59	1.51
25	BB	636	G	N9-C8	6.56	1.42	1.37
25	BB	1374	G	P-O5'	-6.56	1.53	1.59
25	BB	1492	G	O4'-C1'	6.56	1.50	1.41
25	BB	2294	G	N1-C2	-6.56	1.32	1.37
1	AE	17	U	C2-N3	-6.56	1.33	1.37
3	A1	1294	G	C5'-C4'	6.56	1.59	1.51
25	BB	1132	U	N1-C6	6.56	1.43	1.38
25	BB	1261	C	C4-N4	-6.56	1.28	1.33
25	BB	2066	C	C4-C5	-6.56	1.37	1.43
25	BB	2061	G	C5-C4	-6.56	1.33	1.38
25	BB	2088	A	C5-C6	-6.56	1.35	1.41
3	A1	303	A	C6-N6	-6.55	1.28	1.33
3	A1	825	A	C2-N3	-6.55	1.27	1.33
3	A1	999	C	C4-N4	-6.55	1.28	1.33
20	AU	142	ARG	CZ-NH2	-6.55	1.24	1.33
24	BA	5	U	O4'-C1'	-6.55	1.33	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	BA	30	C	C5'-C4'	6.55	1.59	1.51
25	BB	256	A	C6-N6	-6.55	1.28	1.33
25	BB	583	G	C5-C6	6.55	1.49	1.42
25	BB	760	G	N7-C5	6.55	1.43	1.39
25	BB	1010	A	C6-N1	-6.55	1.30	1.35
25	BB	1225	G	O4'-C1'	6.55	1.50	1.41
25	BB	1799	G	C2-N2	-6.55	1.27	1.34
3	A1	1153	G	N3-C4	6.55	1.40	1.35
25	BB	231	A	C5'-C4'	6.55	1.59	1.51
25	BB	2332	C	N3-C4	-6.55	1.29	1.33
25	BB	2875	C	C4-N4	-6.55	1.28	1.33
1	AA	29	A	C5'-C4'	6.55	1.59	1.51
3	A1	359	G	C3'-C2'	6.55	1.60	1.52
3	A1	415	A	N9-C4	6.55	1.41	1.37
3	A1	1112	C	C5'-C4'	6.55	1.59	1.51
25	BB	1235	G	C6-N1	-6.55	1.34	1.39
25	BB	1628	G	C6-N1	-6.55	1.34	1.39
25	BB	2281	A	N7-C5	6.55	1.43	1.39
1	AE	34	G	C5-C4	6.55	1.43	1.38
3	A1	227	G	N3-C4	6.55	1.40	1.35
3	A1	453	G	C2'-C1'	-6.55	1.46	1.53
3	A1	1028	C	O4'-C1'	-6.55	1.33	1.41
25	BB	922	C	N3-C4	-6.55	1.29	1.33
25	BB	1156	A	O3'-P	-6.55	1.53	1.61
25	BB	259	G	C6-N1	-6.55	1.34	1.39
25	BB	1810	A	C6-N1	-6.55	1.30	1.35
3	A1	873	A	N9-C8	-6.55	1.32	1.37
3	A1	922	G	N3-C4	6.55	1.40	1.35
3	A1	1120	C	C5'-C4'	6.55	1.59	1.51
25	BB	1331	G	C5-C6	6.55	1.48	1.42
25	BB	1684	G	C2-N2	-6.55	1.28	1.34
25	BB	2402	U	C5-C6	6.55	1.40	1.34
25	BB	2557	G	C2'-C1'	-6.55	1.46	1.53
25	BB	2815	C	N3-C4	-6.55	1.29	1.33
3	A1	486	U	C2-N3	6.54	1.42	1.37
3	A1	213	G	N9-C8	6.54	1.42	1.37
3	A1	477	C	N3-C4	-6.54	1.29	1.33
3	A1	643	C	N3-C4	-6.54	1.29	1.33
3	A1	1412	C	C2'-C1'	-6.54	1.46	1.53
25	BB	944	C	C4'-C3'	6.54	1.60	1.53
25	BB	1079	C	C2'-O2'	6.54	1.50	1.41
25	BB	1557	C	C2-N3	6.54	1.41	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2068	U	P-O5'	6.54	1.66	1.59
25	BB	2093	G	N9-C4	6.54	1.43	1.38
25	BB	2593	U	C2-N3	-6.54	1.33	1.37
25	BB	2642	G	O3'-P	-6.54	1.53	1.61
25	BB	2860	A	N9-C8	6.54	1.43	1.37
25	BB	2885	G	N9-C4	-6.54	1.32	1.38
3	A1	1434	A	N7-C5	6.54	1.43	1.39
6	AD	120	ARG	CZ-NH2	-6.54	1.24	1.33
25	BB	151	C	C2-N3	6.54	1.41	1.35
25	BB	445	C	N3-C4	-6.54	1.29	1.33
25	BB	1026	G	N3-C4	6.54	1.40	1.35
25	BB	2720	U	C4'-O4'	-6.54	1.37	1.45
3	A1	485	U	N1-C2	6.54	1.44	1.38
25	BB	808	G	N7-C5	6.54	1.43	1.39
25	BB	1398	C	N1-C6	6.54	1.41	1.37
25	BB	2610	C	N1-C6	-6.54	1.33	1.37
1	AA	37	G	O3'-P	-6.54	1.53	1.61
3	A1	27	G	N3-C4	6.54	1.40	1.35
25	BB	1164	C	C4-N4	-6.54	1.28	1.33
25	BB	2353	G	N7-C5	6.54	1.43	1.39
25	BB	2397	G	C5-C6	6.54	1.48	1.42
25	BB	2813	A	N3-C4	6.54	1.38	1.34
1	AA	5	A	C6-N6	-6.54	1.28	1.33
17	AR	43	ARG	CZ-NH2	-6.54	1.24	1.33
25	BB	1035	U	C2'-C1'	6.54	1.60	1.53
25	BB	1478	G	N7-C5	6.54	1.43	1.39
25	BB	2161	C	N3-C4	-6.54	1.29	1.33
3	A1	484	G	N1-C2	-6.54	1.32	1.37
3	A1	811	C	C4-N4	-6.54	1.28	1.33
3	A1	1342	C	C4-N4	-6.54	1.28	1.33
3	A1	1403	C	C2'-C1'	-6.54	1.46	1.53
25	BB	97	C	N3-C4	-6.54	1.29	1.33
25	BB	505	A	N9-C4	6.54	1.41	1.37
25	BB	1044	C	N1-C6	6.54	1.41	1.37
25	BB	1652	A	C5'-C4'	6.54	1.59	1.51
25	BB	2113	U	N1-C2	6.54	1.44	1.38
1	AA	18	G	N1-C2	-6.53	1.32	1.37
1	AE	52	U	C4-O4	-6.53	1.18	1.23
3	A1	732	C	C2-N3	6.53	1.41	1.35
3	A1	876	C	C5'-C4'	6.53	1.59	1.51
3	A1	1304	G	C5-C4	-6.53	1.33	1.38
25	BB	1038	G	N1-C2	-6.53	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1164	C	C3'-C2'	6.53	1.60	1.52
25	BB	1607	C	O4'-C1'	6.53	1.50	1.41
25	BB	2755	C	N1-C6	6.53	1.41	1.37
3	A1	574	A	N7-C5	6.53	1.43	1.39
25	BB	875	G	C2-N3	-6.53	1.27	1.32
1	AE	36	A	N7-C5	-6.53	1.35	1.39
25	BB	291	G	C2'-C1'	-6.53	1.46	1.53
25	BB	756	A	C6-N1	-6.53	1.30	1.35
25	BB	789	A	C5'-C4'	6.53	1.59	1.51
25	BB	840	C	C2-N3	6.53	1.41	1.35
25	BB	1759	A	C3'-C2'	6.53	1.60	1.52
1	AE	3	G	C4'-C3'	-6.53	1.46	1.53
3	A1	535	A	N9-C4	6.53	1.41	1.37
3	A1	926	G	C5'-C4'	6.53	1.59	1.51
25	BB	794	A	C2'-C1'	6.53	1.60	1.53
25	BB	1790	C	N1-C2	6.53	1.46	1.40
1	AE	69	U	C3'-C2'	6.53	1.60	1.52
25	BB	240	C	N3-C4	-6.53	1.29	1.33
25	BB	617	G	C6-N1	-6.53	1.34	1.39
25	BB	635	C	C4-N4	-6.53	1.28	1.33
25	BB	1191	G	N7-C5	-6.53	1.35	1.39
25	BB	2094	A	O3'-P	-6.53	1.53	1.61
25	BB	2374	C	N1-C6	6.53	1.41	1.37
3	A1	831	A	N3-C4	6.53	1.38	1.34
3	A1	867	G	C5'-C4'	6.53	1.59	1.51
3	A1	1379	G	C2-N2	-6.53	1.28	1.34
25	BB	95	A	C4'-C3'	-6.53	1.46	1.53
25	BB	1570	A	N1-C2	-6.53	1.28	1.34
25	BB	2645	G	O4'-C1'	6.53	1.50	1.41
3	A1	153	C	C4'-C3'	-6.52	1.46	1.53
3	A1	1465	A	C6-N6	-6.52	1.28	1.33
25	BB	900	A	C8-N7	6.52	1.36	1.31
25	BB	2821	A	C5'-C4'	6.52	1.59	1.51
1	AE	14	A	C4'-C3'	-6.52	1.46	1.53
3	A1	188	C	N1-C6	-6.52	1.33	1.37
9	AH	14	PHE	CG-CD2	6.52	1.48	1.38
25	BB	642	U	C4-O4	-6.52	1.18	1.23
25	BB	1730	C	C4-C5	-6.52	1.37	1.43
25	BB	1797	G	N9-C8	6.52	1.42	1.37
25	BB	1800	C	C2-N3	6.52	1.41	1.35
25	BB	2569	G	C5-C4	-6.52	1.33	1.38
25	BB	2635	A	C6-N6	-6.52	1.28	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1781	U	C2'-C1'	6.52	1.60	1.53
3	A1	93	U	N1-C6	6.52	1.43	1.38
3	A1	135	C	C4-N4	-6.52	1.28	1.33
3	A1	998	C	C5'-C4'	6.52	1.59	1.51
3	A1	1374	A	N1-C2	-6.52	1.28	1.34
3	A1	1534	A	C6-N1	-6.52	1.30	1.35
25	BB	378	C	N3-C4	-6.52	1.29	1.33
25	BB	692	C	N1-C6	-6.52	1.33	1.37
25	BB	933	A	C6-N1	-6.52	1.30	1.35
25	BB	1112	G	C2-N3	6.52	1.38	1.32
25	BB	1284	A	C8-N7	-6.52	1.26	1.31
25	BB	1302	A	O4'-C1'	6.52	1.50	1.41
25	BB	1357	C	N1-C6	6.52	1.41	1.37
25	BB	1849	G	C6-N1	-6.52	1.34	1.39
25	BB	2023	C	C5-C6	6.52	1.39	1.34
25	BB	2032	G	N1-C2	-6.52	1.32	1.37
3	A1	544	G	C2-N2	-6.52	1.28	1.34
3	A1	1032	G	C8-N7	6.52	1.34	1.30
3	A1	1128	C	N3-C4	-6.52	1.29	1.33
25	BB	371	A	C5-C6	6.52	1.47	1.41
25	BB	1886	U	N1-C2	6.52	1.44	1.38
25	BB	1948	G	O3'-P	-6.52	1.53	1.61
25	BB	2164	C	P-O5'	-6.52	1.53	1.59
25	BB	2428	G	N9-C8	6.52	1.42	1.37
3	A1	562	U	C5'-C4'	6.52	1.59	1.51
3	A1	1234	C	C4-N4	-6.52	1.28	1.33
3	A1	1364	U	C4-C5	6.52	1.49	1.43
25	BB	110	G	C4'-C3'	6.52	1.60	1.53
1	AP	15	G	P-O5'	-6.51	1.53	1.59
3	A1	263	A	N9-C8	6.51	1.43	1.37
25	BB	540	C	C5'-C4'	6.51	1.59	1.51
25	BB	745	G	C5'-C4'	6.51	1.59	1.51
25	BB	1121	C	C2-O2	-6.51	1.18	1.24
25	BB	1700	A	N7-C5	6.51	1.43	1.39
25	BB	2772	C	N3-C4	-6.51	1.29	1.33
31	BH	15	ARG	CZ-NH2	-6.51	1.24	1.33
3	A1	640	A	N9-C8	-6.51	1.32	1.37
25	BB	1272	A	C5-C4	-6.51	1.34	1.38
25	BB	1369	G	C2-N2	-6.51	1.28	1.34
25	BB	1635	A	N1-C2	-6.51	1.28	1.34
25	BB	2695	U	O4'-C1'	6.51	1.50	1.41
3	A1	496	A	C4'-O4'	-6.51	1.37	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1479	C	N1-C6	6.51	1.41	1.37
25	BB	1071	G	C5'-C4'	6.51	1.59	1.51
25	BB	2677	G	C6-O6	-6.51	1.18	1.24
33	BJ	12	ARG	CZ-NH2	-6.51	1.24	1.33
1	AA	10	G	C4'-O4'	-6.51	1.37	1.45
1	AP	73	A	N7-C5	6.51	1.43	1.39
3	A1	39	G	P-O5'	-6.51	1.53	1.59
3	A1	268	U	N1-C2	6.51	1.44	1.38
3	A1	540	G	N7-C5	-6.51	1.35	1.39
25	BB	335	C	C2-N3	6.51	1.41	1.35
25	BB	667	U	C2-N3	-6.51	1.33	1.37
25	BB	1707	G	C6-O6	6.51	1.30	1.24
25	BB	1869	G	N1-C2	-6.51	1.32	1.37
3	A1	118	U	N1-C2	6.51	1.44	1.38
25	BB	11	C	C4'-C3'	6.51	1.60	1.53
25	BB	758	C	N3-C4	-6.51	1.29	1.33
25	BB	1578	U	C4-O4	-6.51	1.18	1.23
25	BB	2777	G	C2-N2	-6.51	1.28	1.34
3	A1	57	G	N9-C4	-6.51	1.32	1.38
3	A1	552	U	N1-C2	6.51	1.44	1.38
25	BB	470	A	N7-C5	6.51	1.43	1.39
25	BB	760	G	C3'-C2'	6.51	1.60	1.52
25	BB	1053	C	P-O5'	6.51	1.66	1.59
25	BB	1406	U	C2'-O2'	6.51	1.50	1.41
25	BB	1959	G	C5-C4	-6.51	1.33	1.38
25	BB	1981	A	C2-N3	-6.51	1.27	1.33
25	BB	2270	A	C4'-C3'	6.51	1.60	1.53
25	BB	2653	U	O3'-P	-6.51	1.53	1.61
3	A1	150	U	C3'-C2'	6.50	1.60	1.52
3	A1	485	U	O3'-P	6.50	1.69	1.61
25	BB	676	A	N9-C4	-6.50	1.33	1.37
25	BB	1168	G	N1-C2	-6.50	1.32	1.37
3	A1	92	U	C2-N3	-6.50	1.33	1.37
3	A1	172	A	C5-C4	-6.50	1.34	1.38
3	A1	833	G	N9-C4	6.50	1.43	1.38
3	A1	999	C	C4-C5	-6.50	1.37	1.43
3	A1	1312	G	C2'-O2'	6.50	1.50	1.41
25	BB	333	G	C5'-C4'	6.50	1.59	1.51
25	BB	655	A	C5-C4	-6.50	1.34	1.38
3	A1	598	U	O3'-P	-6.50	1.53	1.61
25	BB	420	C	C4-C5	-6.50	1.37	1.43
25	BB	988	A	C6-N1	-6.50	1.30	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1372	U	N1-C6	6.50	1.43	1.38
25	BB	1449	G	C2-N2	-6.50	1.28	1.34
25	BB	2048	G	C5'-C4'	6.50	1.59	1.51
25	BB	2123	G	C8-N7	-6.50	1.27	1.30
25	BB	2248	C	N3-C4	-6.50	1.29	1.33
25	BB	2662	A	N9-C8	-6.50	1.32	1.37
3	A1	1492	A	C3'-C2'	6.50	1.60	1.52
25	BB	590	A	P-O5'	6.50	1.66	1.59
25	BB	1291	C	P-O5'	-6.50	1.53	1.59
25	BB	1351	C	N3-C4	-6.50	1.29	1.33
27	BD	64	ARG	CZ-NH2	-6.50	1.24	1.33
3	A1	731	G	C8-N7	-6.50	1.27	1.30
25	BB	551	G	N3-C4	6.50	1.40	1.35
25	BB	1932	A	C4'-O4'	-6.50	1.37	1.45
1	AE	51	G	C2-N2	-6.50	1.28	1.34
3	A1	287	U	O4'-C1'	-6.50	1.33	1.41
3	A1	433	G	N9-C4	6.50	1.43	1.38
3	A1	944	G	C4'-O4'	-6.50	1.37	1.45
16	AQ	17	ARG	CZ-NH2	-6.50	1.24	1.33
25	BB	65	U	C2-N3	6.50	1.42	1.37
25	BB	313	G	C5-C4	6.50	1.42	1.38
25	BB	1199	U	O3'-P	-6.50	1.53	1.61
25	BB	2041	U	N1-C2	6.50	1.44	1.38
3	A1	391	G	N7-C5	-6.50	1.35	1.39
3	A1	571	U	N1-C2	6.50	1.44	1.38
25	BB	281	C	C2-O2	-6.50	1.18	1.24
25	BB	881	G	C5'-C4'	6.50	1.59	1.51
25	BB	1566	A	N7-C5	6.50	1.43	1.39
25	BB	2746	U	C4'-C3'	-6.50	1.46	1.53
3	A1	1427	C	C4-N4	-6.49	1.28	1.33
25	BB	555	G	C4'-C3'	6.49	1.60	1.53
25	BB	2553	G	N3-C4	6.49	1.40	1.35
25	BB	2863	C	N3-C4	-6.49	1.29	1.33
3	A1	1519	A	C5'-C4'	6.49	1.59	1.51
24	BA	50	A	N1-C2	-6.49	1.28	1.34
26	BC	93	ARG	CZ-NH1	-6.49	1.24	1.33
3	A1	15	G	C2-N2	-6.49	1.28	1.34
3	A1	1358	U	C5'-C4'	6.49	1.59	1.51
17	AR	153	ARG	CZ-NH2	-6.49	1.24	1.33
25	BB	3	U	N1-C2	6.49	1.44	1.38
25	BB	521	U	N1-C2	6.49	1.44	1.38
25	BB	714	U	O3'-P	-6.49	1.53	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1138	G	N7-C5	6.49	1.43	1.39
25	BB	1206	G	N9-C8	6.49	1.42	1.37
25	BB	1711	A	P-O5'	6.49	1.66	1.59
25	BB	1918	A	P-O5'	6.49	1.66	1.59
25	BB	2226	C	C2-N3	-6.49	1.30	1.35
1	AE	47	U	N1-C6	6.49	1.43	1.38
25	BB	216	A	N9-C4	6.49	1.41	1.37
25	BB	669	G	C5-C6	6.49	1.48	1.42
25	BB	769	U	C4-C5	6.49	1.49	1.43
46	BW	12	ARG	CZ-NH1	-6.49	1.24	1.33
3	A1	173	U	C2-N3	-6.49	1.33	1.37
25	BB	667	U	O3'-P	-6.49	1.53	1.61
25	BB	1498	C	N3-C4	-6.49	1.29	1.33
25	BB	2481	G	N1-C2	-6.49	1.32	1.37
3	A1	879	C	C4-N4	-6.49	1.28	1.33
3	A1	1061	G	C5-C6	6.49	1.48	1.42
3	A1	1215	G	C2-N2	-6.49	1.28	1.34
25	BB	1429	G	N7-C5	6.49	1.43	1.39
25	BB	2046	G	C3'-O3'	6.49	1.51	1.42
25	BB	2294	G	C2-N3	6.49	1.38	1.32
3	A1	1064	G	C2-N2	-6.48	1.28	1.34
3	A1	1286	U	C4'-C3'	6.48	1.60	1.53
25	BB	1999	C	C2-N3	-6.48	1.30	1.35
3	A1	808	C	C4-N4	-6.48	1.28	1.33
3	A1	1271	A	C6-N1	-6.48	1.31	1.35
25	BB	38	A	C5'-C4'	6.48	1.59	1.51
25	BB	311	A	N9-C8	-6.48	1.32	1.37
25	BB	534	U	C2-N3	6.48	1.42	1.37
25	BB	1109	C	C4-N4	-6.48	1.28	1.33
3	A1	447	G	O4'-C1'	6.48	1.50	1.41
3	A1	767	A	C6-N1	-6.48	1.31	1.35
3	A1	1184	G	N7-C5	6.48	1.43	1.39
3	A1	1419	G	C2-N3	6.48	1.38	1.32
3	A1	1497	G	N3-C4	6.48	1.40	1.35
25	BB	2130	U	C4-C5	6.48	1.49	1.43
25	BB	2422	C	C3'-C2'	6.48	1.60	1.52
3	A1	332	G	C2-N3	6.48	1.38	1.32
24	BA	109	A	C8-N7	6.48	1.36	1.31
25	BB	981	A	C8-N7	-6.48	1.27	1.31
25	BB	1301	A	C4'-O4'	-6.48	1.37	1.45
25	BB	2666	C	N1-C6	6.48	1.41	1.37
25	BB	2793	C	P-O5'	-6.48	1.53	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	640	A	C5'-C4'	6.48	1.59	1.51
3	A1	803	G	N7-C5	6.48	1.43	1.39
3	A1	1285	A	C5-C4	-6.48	1.34	1.38
3	A1	1473	G	N7-C5	6.48	1.43	1.39
24	BA	30	C	C4-N4	-6.48	1.28	1.33
25	BB	56	A	N3-C4	6.48	1.38	1.34
25	BB	672	C	C5'-C4'	6.48	1.59	1.51
25	BB	1915	U	C2'-O2'	6.48	1.50	1.41
25	BB	423	A	P-O5'	-6.48	1.53	1.59
25	BB	1462	C	C5-C6	6.48	1.39	1.34
3	A1	106	C	P-O5'	6.47	1.66	1.59
3	A1	477	C	N1-C6	6.47	1.41	1.37
25	BB	132	G	O3'-P	-6.47	1.53	1.61
25	BB	1767	G	C5-C4	6.47	1.42	1.38
25	BB	2432	A	N9-C8	6.47	1.43	1.37
25	BB	2577	A	N7-C5	6.47	1.43	1.39
25	BB	2785	C	C5'-C4'	6.47	1.59	1.51
3	A1	77	A	C5-C4	-6.47	1.34	1.38
3	A1	1300	G	C8-N7	6.47	1.34	1.30
25	BB	1216	G	N9-C8	6.47	1.42	1.37
25	BB	1668	A	N7-C5	6.47	1.43	1.39
25	BB	2101	A	N9-C4	-6.47	1.33	1.37
25	BB	2550	G	C5-C4	-6.47	1.33	1.38
1	AA	63	C	N3-C4	-6.47	1.29	1.33
25	BB	669	G	O4'-C1'	6.47	1.50	1.41
25	BB	824	U	C2'-C1'	6.47	1.60	1.53
25	BB	2188	U	C5'-C4'	6.47	1.59	1.51
25	BB	1581	G	C6-O6	-6.47	1.18	1.24
25	BB	1834	U	N3-C4	-6.47	1.32	1.38
25	BB	2361	G	N3-C4	6.47	1.40	1.35
25	BB	2717	C	N3-C4	-6.47	1.29	1.33
3	A1	34	C	N1-C6	6.47	1.41	1.37
3	A1	886	G	N1-C2	-6.47	1.32	1.37
25	BB	1112	G	N3-C4	-6.47	1.30	1.35
25	BB	2058	A	O3'-P	-6.47	1.53	1.61
1	AA	50	U	C2-N3	6.47	1.42	1.37
3	A1	160	A	N7-C5	6.47	1.43	1.39
3	A1	300	A	N7-C5	6.47	1.43	1.39
3	A1	656	G	C2-N2	-6.47	1.28	1.34
25	BB	32	C	N1-C6	6.47	1.41	1.37
25	BB	1185	G	C8-N7	6.47	1.34	1.30
25	BB	1699	G	N7-C5	6.47	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1984	G	N3-C4	6.47	1.40	1.35
25	BB	2299	U	C4'-O4'	-6.47	1.37	1.45
25	BB	2867	G	C2'-C1'	6.47	1.60	1.53
3	A1	705	G	N3-C4	6.46	1.40	1.35
3	A1	1039	G	C2-N2	-6.46	1.28	1.34
25	BB	949	G	C6-N1	-6.46	1.35	1.39
25	BB	1255	U	C5-C6	6.46	1.40	1.34
25	BB	1772	A	N9-C4	-6.46	1.33	1.37
25	BB	2120	G	N7-C5	6.46	1.43	1.39
3	A1	264	C	C4-N4	-6.46	1.28	1.33
3	A1	635	A	O3'-P	-6.46	1.53	1.61
3	A1	787	A	C3'-C2'	6.46	1.60	1.52
25	BB	78	U	N1-C6	6.46	1.43	1.38
25	BB	458	G	C5-C6	6.46	1.48	1.42
25	BB	1424	G	N1-C2	-6.46	1.32	1.37
25	BB	1984	G	C2-N2	-6.46	1.28	1.34
25	BB	2090	A	N3-C4	-6.46	1.30	1.34
25	BB	2171	A	C6-N1	-6.46	1.31	1.35
25	BB	2832	U	C5-C6	6.46	1.40	1.34
3	A1	467	U	C5'-C4'	6.46	1.59	1.51
25	BB	916	G	N7-C5	6.46	1.43	1.39
25	BB	2461	A	N3-C4	6.46	1.38	1.34
3	A1	848	C	C2-N3	-6.46	1.30	1.35
25	BB	848	C	O3'-P	-6.46	1.53	1.61
25	BB	859	G	C3'-O3'	-6.46	1.33	1.42
25	BB	1869	G	O3'-P	-6.46	1.53	1.61
25	BB	2103	C	N3-C4	-6.46	1.29	1.33
25	BB	173	A	C8-N7	6.46	1.36	1.31
25	BB	2566	A	C5'-C4'	6.46	1.59	1.51
3	A1	349	A	N7-C5	6.46	1.43	1.39
25	BB	1383	A	C3'-C2'	6.46	1.60	1.52
25	BB	1449	G	O3'-P	-6.46	1.53	1.61
25	BB	1745	A	C6-N1	-6.46	1.31	1.35
25	BB	2507	C	C5'-C4'	6.46	1.59	1.51
25	BB	2782	G	C6-N1	-6.46	1.35	1.39
1	AP	36	A	C6-N1	-6.45	1.31	1.35
1	AP	62	A	N7-C5	6.45	1.43	1.39
3	A1	792	A	C6-N6	-6.45	1.28	1.33
3	A1	809	G	C8-N7	-6.45	1.27	1.30
3	A1	1077	G	C4'-O4'	-6.45	1.37	1.45
3	A1	1367	C	C5'-C4'	6.45	1.59	1.51
25	BB	721	A	N7-C5	-6.45	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1262	A	C6-N6	6.45	1.39	1.33
17	AR	55	ARG	CZ-NH2	-6.45	1.24	1.33
25	BB	578	G	C6-N1	-6.45	1.35	1.39
25	BB	1283	G	O3'-P	-6.45	1.53	1.61
1	AP	23	A	C8-N7	-6.45	1.27	1.31
1	AP	42	G	P-O5'	-6.45	1.53	1.59
3	A1	11	G	C4'-C3'	6.45	1.60	1.53
3	A1	44	A	C3'-C2'	6.45	1.60	1.52
3	A1	1012	A	N3-C4	6.45	1.38	1.34
25	BB	117	G	C4'-O4'	-6.45	1.37	1.45
25	BB	1035	U	C4-O4	-6.45	1.18	1.23
25	BB	2056	G	C2-N2	-6.45	1.28	1.34
3	A1	775	G	O4'-C1'	6.45	1.50	1.41
25	BB	1094	U	C5'-C4'	6.45	1.59	1.51
25	BB	1663	G	P-O5'	-6.45	1.53	1.59
25	BB	1903	G	N7-C5	-6.45	1.35	1.39
25	BB	2869	G	C8-N7	-6.45	1.27	1.30
3	A1	741	G	C8-N7	6.45	1.34	1.30
25	BB	38	A	C5-C4	-6.45	1.34	1.38
25	BB	708	G	C2-N2	-6.45	1.28	1.34
25	BB	2608	G	C5'-C4'	6.45	1.59	1.51
1	AE	53	G	N7-C5	6.45	1.43	1.39
3	A1	149	A	N7-C5	6.45	1.43	1.39
3	A1	502	A	C5-C6	6.45	1.46	1.41
3	A1	550	G	C3'-C2'	6.45	1.60	1.52
24	BA	98	G	C2-N3	6.45	1.38	1.32
25	BB	31	C	C5-C6	6.45	1.39	1.34
25	BB	1008	A	N9-C8	-6.45	1.32	1.37
25	BB	1036	G	C5-C4	6.45	1.42	1.38
25	BB	1163	G	P-O5'	-6.45	1.53	1.59
25	BB	2640	G	P-O5'	-6.45	1.53	1.59
3	A1	1228	C	N3-C4	-6.44	1.29	1.33
3	A1	1349	A	N3-C4	6.44	1.38	1.34
3	A1	1518	A	N9-C4	6.44	1.41	1.37
25	BB	483	A	N7-C5	6.44	1.43	1.39
25	BB	1450	G	C2'-C1'	6.44	1.60	1.53
25	BB	2388	A	N9-C4	6.44	1.41	1.37
3	A1	259	G	C8-N7	6.44	1.34	1.30
3	A1	373	A	C2'-C1'	6.44	1.60	1.53
3	A1	513	C	C5-C6	6.44	1.39	1.34
3	A1	1365	G	O3'-P	-6.44	1.53	1.61
3	A1	1456	A	C5-C6	6.44	1.46	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1529	G	C3'-C2'	-6.44	1.45	1.52
25	BB	382	A	O4'-C1'	6.44	1.50	1.41
25	BB	930	G	C2-N2	-6.44	1.28	1.34
25	BB	1717	A	C5-C4	-6.44	1.34	1.38
25	BB	1741	C	C4'-O4'	-6.44	1.37	1.45
25	BB	2689	U	N3-C4	-6.44	1.32	1.38
3	A1	91	U	P-O5'	6.44	1.66	1.59
3	A1	458	U	C2-N3	6.44	1.42	1.37
3	A1	860	A	C6-N6	-6.44	1.28	1.33
3	A1	1210	C	C2-O2	-6.44	1.18	1.24
25	BB	351	C	C4-C5	-6.44	1.37	1.43
25	BB	380	G	N1-C2	-6.44	1.32	1.37
25	BB	489	G	C3'-C2'	6.44	1.60	1.52
25	BB	1003	G	N3-C4	6.44	1.40	1.35
25	BB	1846	G	C2-N2	-6.44	1.28	1.34
25	BB	1985	C	P-O5'	6.44	1.66	1.59
25	BB	2557	G	C2-N2	-6.44	1.28	1.34
25	BB	2571	U	O3'-P	-6.44	1.53	1.61
25	BB	2622	U	C4'-O4'	-6.44	1.37	1.45
1	AA	31	A	O3'-P	6.44	1.68	1.61
3	A1	342	C	C5-C6	6.44	1.39	1.34
3	A1	1054	C	N1-C6	6.44	1.41	1.37
25	BB	1137	G	C2-N3	6.44	1.38	1.32
3	A1	116	A	C6-N6	-6.44	1.28	1.33
3	A1	666	G	N7-C5	6.44	1.43	1.39
25	BB	1119	U	C5-C6	6.44	1.40	1.34
25	BB	1785	A	C8-N7	6.44	1.36	1.31
3	A1	539	A	C2'-O2'	6.44	1.50	1.41
41	BR	40	THR	CB-OG1	-6.44	1.30	1.43
3	A1	317	U	C5-C6	6.43	1.40	1.34
25	BB	892	A	C2'-C1'	-6.43	1.46	1.53
25	BB	1440	U	N1-C6	-6.43	1.32	1.38
25	BB	1555	G	N9-C4	-6.43	1.32	1.38
25	BB	2712	C	N1-C6	-6.43	1.33	1.37
1	AP	42	G	N1-C2	-6.43	1.32	1.37
3	A1	266	G	N1-C2	-6.43	1.32	1.37
3	A1	780	A	C5-C4	-6.43	1.34	1.38
3	A1	796	C	C3'-C2'	6.43	1.60	1.52
24	BA	16	G	O4'-C1'	6.43	1.50	1.41
24	BA	71	C	C5-C6	6.43	1.39	1.34
24	BA	86	G	C5-C6	6.43	1.48	1.42
25	BB	533	G	C2-N2	-6.43	1.28	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2233	U	C4'-C3'	6.43	1.60	1.53
3	A1	349	A	C6-N1	-6.43	1.31	1.35
3	A1	394	G	C8-N7	6.43	1.34	1.30
25	BB	330	A	P-O5'	6.43	1.66	1.59
25	BB	524	G	C5-C4	6.43	1.42	1.38
25	BB	2170	A	N3-C4	6.43	1.38	1.34
25	BB	2726	A	P-O5'	6.43	1.66	1.59
3	A1	1280	A	N7-C5	6.43	1.43	1.39
3	A1	1304	G	C2-N2	-6.43	1.28	1.34
25	BB	225	C	C4-C5	-6.43	1.37	1.43
25	BB	538	A	C4'-C3'	6.43	1.60	1.53
25	BB	723	C	O4'-C1'	6.43	1.50	1.41
25	BB	1128	G	O4'-C1'	6.43	1.50	1.41
25	BB	1369	G	C4'-C3'	6.43	1.60	1.53
25	BB	1527	G	C2'-O2'	6.43	1.50	1.41
25	BB	2882	A	C4'-O4'	-6.43	1.37	1.45
26	BC	9	ARG	NE-CZ	-6.43	1.24	1.33
3	A1	1115	U	C3'-C2'	-6.43	1.45	1.52
3	A1	1417	G	C4'-O4'	-6.43	1.37	1.45
25	BB	1149	G	C8-N7	6.43	1.34	1.30
25	BB	1299	G	N3-C4	6.43	1.40	1.35
25	BB	2112	G	C6-N1	-6.43	1.35	1.39
3	A1	450	G	N9-C8	-6.43	1.33	1.37
3	A1	789	U	P-O5'	-6.43	1.53	1.59
3	A1	1224	U	P-O5'	6.43	1.66	1.59
24	BA	114	C	C4'-O4'	-6.43	1.37	1.45
25	BB	1130	U	P-O5'	-6.43	1.53	1.59
25	BB	1541	C	P-O5'	6.43	1.66	1.59
25	BB	2509	G	C6-N1	-6.43	1.35	1.39
3	A1	1162	C	C4-N4	-6.42	1.28	1.33
25	BB	61	C	P-O5'	6.42	1.66	1.59
25	BB	179	C	O3'-P	-6.42	1.53	1.61
25	BB	211	C	C5-C6	6.42	1.39	1.34
25	BB	638	G	C2-N2	-6.42	1.28	1.34
25	BB	1088	A	C5-C6	6.42	1.46	1.41
25	BB	1600	C	C2-O2	-6.42	1.18	1.24
25	BB	1808	A	C6-N1	-6.42	1.31	1.35
25	BB	2818	U	C5-C6	6.42	1.40	1.34
25	BB	111	A	N1-C2	-6.42	1.28	1.34
25	BB	114	U	O3'-P	-6.42	1.53	1.61
25	BB	1208	C	N3-C4	-6.42	1.29	1.33
43	BT	9	ARG	CZ-NH1	-6.42	1.24	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	417	G	N7-C5	-6.42	1.35	1.39
3	A1	801	U	O4'-C1'	6.42	1.50	1.41
24	BA	87	U	N1-C2	6.42	1.44	1.38
25	BB	29	U	C4-C5	6.42	1.49	1.43
25	BB	2278	A	C2-N3	-6.42	1.27	1.33
25	BB	2390	U	N3-C4	-6.42	1.32	1.38
25	BB	2470	G	N3-C4	6.42	1.40	1.35
25	BB	1952	A	C5-C4	-6.42	1.34	1.38
24	BA	7	G	N7-C5	-6.42	1.35	1.39
24	BA	78	A	N7-C5	6.42	1.43	1.39
25	BB	820	A	N1-C2	-6.42	1.28	1.34
25	BB	1353	A	C6-N1	-6.42	1.31	1.35
25	BB	2894	G	O3'-P	-6.42	1.53	1.61
2	AM	7	U	C5-C6	6.42	1.40	1.34
3	A1	100	G	N9-C8	-6.42	1.33	1.37
3	A1	281	G	C5-C6	6.42	1.48	1.42
3	A1	677	U	C2-N3	-6.42	1.33	1.37
3	A1	947	G	O4'-C1'	6.42	1.50	1.41
25	BB	258	G	C2-N2	-6.42	1.28	1.34
25	BB	739	A	C3'-C2'	6.42	1.60	1.52
25	BB	1009	A	C6-N6	-6.42	1.28	1.33
25	BB	1985	C	C4-N4	-6.42	1.28	1.33
25	BB	1990	C	N3-C4	-6.42	1.29	1.33
3	A1	219	U	O4'-C1'	6.42	1.50	1.41
3	A1	926	G	C8-N7	-6.42	1.27	1.30
25	BB	66	C	O4'-C1'	6.42	1.50	1.41
25	BB	346	A	C8-N7	-6.42	1.27	1.31
25	BB	1434	A	C5'-C4'	6.42	1.59	1.51
1	AP	19	G	P-O5'	-6.41	1.53	1.59
1	AE	3	G	C6-N1	-6.41	1.35	1.39
1	AE	17	U	C4-O4	-6.41	1.18	1.23
3	A1	299	G	O3'-P	-6.41	1.53	1.61
3	A1	1276	G	N1-C2	-6.41	1.32	1.37
25	BB	74	A	C2'-C1'	-6.41	1.46	1.53
25	BB	361	G	C8-N7	-6.41	1.27	1.30
25	BB	481	G	N1-C2	-6.41	1.32	1.37
25	BB	2417	C	C2-N3	-6.41	1.30	1.35
51	B2	2	LYS	N-CA	6.41	1.59	1.46
3	A1	1332	A	C2'-C1'	6.41	1.60	1.53
25	BB	811	U	O4'-C1'	6.41	1.50	1.41
1	AE	55	U	C4-C5	6.41	1.49	1.43
3	A1	201	G	C2-N2	-6.41	1.28	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1229	C	C5-C6	6.41	1.39	1.34
25	BB	1324	G	N7-C5	6.41	1.43	1.39
25	BB	1332	G	C1'-N9	6.41	1.58	1.48
25	BB	2219	U	N1-C2	6.41	1.44	1.38
3	A1	31	G	C5'-C4'	6.41	1.59	1.51
3	A1	566	G	N9-C8	6.41	1.42	1.37
3	A1	1089	G	N9-C8	-6.41	1.33	1.37
25	BB	48	G	N1-C2	-6.41	1.32	1.37
25	BB	795	C	N1-C6	6.41	1.41	1.37
25	BB	1077	A	C2-N3	-6.41	1.27	1.33
25	BB	1496	A	C5-C4	-6.41	1.34	1.38
25	BB	1918	A	N7-C5	6.41	1.43	1.39
25	BB	2319	G	N1-C2	-6.41	1.32	1.37
25	BB	2502	G	C3'-C2'	-6.41	1.45	1.52
25	BB	2770	G	N1-C2	-6.41	1.32	1.37
3	A1	831	A	N9-C4	-6.41	1.34	1.37
25	BB	518	G	C6-N1	-6.41	1.35	1.39
25	BB	1305	C	C4-N4	-6.41	1.28	1.33
25	BB	1591	A	C6-N1	-6.41	1.31	1.35
1	AP	12	U	N3-C4	-6.41	1.32	1.38
3	A1	932	C	N1-C6	-6.41	1.33	1.37
25	BB	72	U	C4'-C3'	6.41	1.60	1.53
25	BB	187	G	C8-N7	6.41	1.34	1.30
25	BB	190	A	C5-C4	-6.41	1.34	1.38
25	BB	913	U	C2'-C1'	6.41	1.60	1.53
25	BB	1192	G	C6-N1	-6.41	1.35	1.39
25	BB	1921	G	N9-C4	-6.41	1.32	1.38
25	BB	1936	A	C6-N6	-6.41	1.28	1.33
25	BB	1948	G	N9-C8	-6.41	1.33	1.37
25	BB	2143	C	C4-C5	-6.41	1.37	1.43
25	BB	2807	U	C4-C5	-6.41	1.37	1.43
25	BB	2023	C	C3'-C2'	6.40	1.59	1.52
25	BB	260	G	C5-C6	6.40	1.48	1.42
25	BB	638	G	C2-N3	-6.40	1.27	1.32
25	BB	1370	C	N3-C4	-6.40	1.29	1.33
25	BB	1470	A	C6-N1	-6.40	1.31	1.35
25	BB	1994	C	O4'-C1'	6.40	1.50	1.41
3	A1	1267	C	C4-N4	-6.40	1.28	1.33
25	BB	45	G	C4'-C3'	6.40	1.60	1.53
25	BB	430	A	C6-N6	-6.40	1.28	1.33
25	BB	1966	A	C6-N6	-6.40	1.28	1.33
25	BB	2669	G	C4'-O4'	-6.40	1.37	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	999	U	C5'-C4'	6.40	1.59	1.51
25	BB	2403	C	C5'-C4'	6.40	1.59	1.51
1	AE	22	G	C2'-C1'	6.40	1.60	1.53
3	A1	848	C	C2'-C1'	-6.40	1.46	1.53
25	BB	2557	G	C5-C6	6.40	1.48	1.42
25	BB	2675	A	N3-C4	6.40	1.38	1.34
25	BB	2827	C	N3-C4	-6.40	1.29	1.33
3	A1	646	G	N9-C4	6.40	1.43	1.38
3	A1	883	C	C2'-C1'	6.40	1.60	1.53
25	BB	388	G	C2'-C1'	-6.40	1.46	1.53
25	BB	613	A	C8-N7	6.40	1.36	1.31
25	BB	1828	G	C5'-C4'	6.40	1.59	1.51
25	BB	2305	U	C2-N3	-6.40	1.33	1.37
25	BB	2513	A	C2-N3	-6.40	1.27	1.33
1	AP	71	G	C5-C4	6.39	1.42	1.38
3	A1	232	G	N1-C2	-6.39	1.32	1.37
3	A1	514	C	N3-C4	-6.39	1.29	1.33
3	A1	796	C	N1-C6	6.39	1.41	1.37
3	A1	1061	G	N3-C4	-6.39	1.30	1.35
3	A1	1287	A	C6-N1	-6.39	1.31	1.35
24	BA	15	A	C3'-C2'	6.39	1.59	1.52
25	BB	132	G	C2'-C1'	-6.39	1.46	1.53
25	BB	724	U	C2-N3	-6.39	1.33	1.37
25	BB	1202	G	P-O5'	6.39	1.66	1.59
25	BB	1920	C	C4-C5	6.39	1.48	1.43
3	A1	1413	A	N7-C5	6.39	1.43	1.39
25	BB	118	A	C6-N1	-6.39	1.31	1.35
3	A1	144	G	C4'-C3'	6.39	1.60	1.53
3	A1	1282	C	N1-C6	6.39	1.41	1.37
3	A1	1394	A	C5-C4	-6.39	1.34	1.38
25	BB	79	C	C4-C5	-6.39	1.37	1.43
25	BB	716	A	P-O5'	6.39	1.66	1.59
25	BB	1576	U	N1-C2	-6.39	1.32	1.38
25	BB	1578	U	C2-N3	-6.39	1.33	1.37
3	A1	279	A	C6-N6	-6.39	1.28	1.33
3	A1	1534	A	N9-C4	6.39	1.41	1.37
25	BB	1073	A	N1-C2	-6.39	1.28	1.34
25	BB	1192	G	O4'-C1'	6.39	1.50	1.41
25	BB	1608	A	C2'-O2'	6.39	1.50	1.41
25	BB	1715	G	C2-N3	6.39	1.37	1.32
25	BB	1791	A	C6-N1	-6.39	1.31	1.35
25	BB	2594	C	N1-C2	6.39	1.46	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	636	U	C5'-C4'	6.39	1.59	1.51
3	A1	1212	U	C4-O4	-6.39	1.18	1.23
3	A1	1381	U	N3-C4	-6.39	1.32	1.38
25	BB	55	G	C3'-C2'	6.39	1.59	1.52
25	BB	1637	A	N3-C4	6.39	1.38	1.34
25	BB	2298	A	N3-C4	6.39	1.38	1.34
25	BB	2559	C	O3'-P	-6.39	1.53	1.61
1	AA	34	G	P-O5'	6.39	1.66	1.59
1	AP	24	G	C2-N2	-6.39	1.28	1.34
1	AP	25	C	C4'-C3'	6.39	1.60	1.53
3	A1	15	G	C3'-C2'	6.39	1.59	1.52
25	BB	1303	G	C4'-O4'	-6.39	1.37	1.45
25	BB	1483	G	O4'-C1'	6.39	1.50	1.41
3	A1	92	U	C4-C5	6.38	1.49	1.43
3	A1	265	G	C2-N2	-6.38	1.28	1.34
3	A1	417	G	N9-C8	6.38	1.42	1.37
3	A1	460	A	C6-N6	-6.38	1.28	1.33
3	A1	1207	G	C2-N2	-6.38	1.28	1.34
25	BB	1680	U	C2-N3	6.38	1.42	1.37
25	BB	1925	C	C5-C6	6.38	1.39	1.34
25	BB	1951	U	N1-C2	6.38	1.44	1.38
25	BB	217	A	C5-C6	6.38	1.46	1.41
25	BB	400	G	C8-N7	6.38	1.34	1.30
25	BB	1863	G	C2-N2	-6.38	1.28	1.34
25	BB	1993	U	C4-O4	-6.38	1.18	1.23
1	AA	14	A	C6-N1	-6.38	1.31	1.35
1	AA	30	G	C5'-C4'	6.38	1.59	1.51
3	A1	457	G	C6-O6	-6.38	1.18	1.24
3	A1	1374	A	N7-C5	-6.38	1.35	1.39
24	BA	44	G	C2-N3	-6.38	1.27	1.32
25	BB	853	C	C4-N4	-6.38	1.28	1.33
25	BB	1969	A	C6-N6	-6.38	1.28	1.33
25	BB	2018	G	C2-N2	-6.38	1.28	1.34
25	BB	2549	G	N7-C5	-6.38	1.35	1.39
3	A1	1091	U	P-O5'	6.38	1.66	1.59
25	BB	2413	G	P-O5'	-6.38	1.53	1.59
1	AE	44	A	N9-C8	6.38	1.42	1.37
3	A1	154	U	C4'-O4'	-6.38	1.37	1.45
3	A1	1081	A	C8-N7	6.38	1.36	1.31
3	A1	1397	C	O3'-P	6.38	1.68	1.61
25	BB	1110	G	C2-N2	-6.38	1.28	1.34
25	BB	2002	G	N3-C4	6.38	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2241	A	N9-C4	-6.38	1.34	1.37
1	AE	57	G	C2-N3	6.38	1.37	1.32
3	A1	320	A	C2-N3	6.38	1.39	1.33
3	A1	1180	A	C5'-C4'	6.38	1.59	1.51
25	BB	53	A	P-O5'	-6.38	1.53	1.59
25	BB	67	U	C5'-C4'	6.38	1.59	1.51
25	BB	209	C	C2-N3	-6.38	1.30	1.35
25	BB	917	A	C6-N6	-6.38	1.28	1.33
25	BB	2248	C	O3'-P	-6.38	1.53	1.61
3	A1	308	C	C4'-C3'	-6.38	1.46	1.53
25	BB	1515	A	O3'-P	-6.38	1.53	1.61
25	BB	2378	A	C6-N1	-6.38	1.31	1.35
25	BB	2569	G	P-O5'	6.38	1.66	1.59
25	BB	2895	G	N7-C5	6.38	1.43	1.39
1	AP	66	A	N3-C4	6.37	1.38	1.34
1	AE	23	A	C4'-O4'	-6.37	1.37	1.45
1	AE	28	C	C4'-O4'	-6.37	1.37	1.45
1	AE	39	U	C2-N3	6.37	1.42	1.37
3	A1	276	G	O3'-P	-6.37	1.53	1.61
3	A1	688	G	C5'-C4'	6.37	1.58	1.51
3	A1	802	A	C5-C6	6.37	1.46	1.41
3	A1	968	A	N3-C4	6.37	1.38	1.34
25	BB	596	U	C4-O4	-6.37	1.18	1.23
25	BB	883	G	N1-C2	-6.37	1.32	1.37
25	BB	1268	A	C6-N1	-6.37	1.31	1.35
25	BB	1490	A	C5-C4	-6.37	1.34	1.38
25	BB	1846	G	C1'-N9	6.37	1.58	1.48
25	BB	1983	G	C3'-C2'	6.37	1.59	1.52
25	BB	2229	U	O3'-P	6.37	1.68	1.61
39	BP	40	ARG	CZ-NH1	-6.37	1.24	1.33
3	A1	737	C	C2-N3	-6.37	1.30	1.35
3	A1	1499	A	C8-N7	-6.37	1.27	1.31
25	BB	199	A	C5-C4	-6.37	1.34	1.38
25	BB	436	C	N3-C4	-6.37	1.29	1.33
25	BB	814	C	N1-C6	6.37	1.41	1.37
25	BB	1240	U	N3-C4	-6.37	1.32	1.38
25	BB	1745	A	N9-C4	-6.37	1.34	1.37
25	BB	1919	A	C6-N1	-6.37	1.31	1.35
25	BB	2083	G	C4'-C3'	-6.37	1.46	1.53
1	AE	26	G	C2-N2	-6.37	1.28	1.34
3	A1	782	A	C4'-O4'	-6.37	1.37	1.45
25	BB	581	C	N1-C6	-6.37	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1381	G	C5-C4	6.37	1.42	1.38
48	BY	46	ARG	CZ-NH2	-6.37	1.24	1.33
3	A1	720	C	C4-C5	-6.37	1.37	1.43
25	BB	473	G	C5-C6	6.37	1.48	1.42
25	BB	709	U	N1-C2	6.37	1.44	1.38
25	BB	976	G	O3'-P	-6.37	1.53	1.61
25	BB	2280	G	C6-N1	-6.37	1.35	1.39
25	BB	2358	A	C6-N6	-6.37	1.28	1.33
3	A1	435	A	N9-C4	6.37	1.41	1.37
3	A1	1292	G	C2-N3	6.37	1.37	1.32
25	BB	722	A	N3-C4	6.37	1.38	1.34
25	BB	1535	A	C2-N3	6.37	1.39	1.33
25	BB	2365	G	O3'-P	-6.37	1.53	1.61
25	BB	2373	G	N9-C8	-6.37	1.33	1.37
3	A1	449	G	N3-C4	6.37	1.40	1.35
3	A1	563	A	N3-C4	6.37	1.38	1.34
3	A1	1345	U	C5'-C4'	6.37	1.58	1.51
25	BB	248	G	N9-C8	-6.37	1.33	1.37
25	BB	456	C	N1-C6	-6.37	1.33	1.37
25	BB	735	A	C6-N1	-6.37	1.31	1.35
25	BB	908	C	C1'-N1	6.37	1.58	1.48
25	BB	1862	G	C2-N2	-6.37	1.28	1.34
25	BB	2733	A	C6-N6	-6.37	1.28	1.33
25	BB	308	G	C8-N7	6.36	1.34	1.30
25	BB	1345	C	N1-C2	-6.36	1.33	1.40
25	BB	1666	G	P-O5'	6.36	1.66	1.59
25	BB	1869	G	C6-O6	-6.36	1.18	1.24
25	BB	1897	G	C8-N7	-6.36	1.27	1.30
25	BB	1907	G	C5-C6	6.36	1.48	1.42
25	BB	2049	G	P-O5'	-6.36	1.53	1.59
1	AE	40	C	N3-C4	-6.36	1.29	1.33
3	A1	413	G	C8-N7	-6.36	1.27	1.30
3	A1	650	G	C2-N2	-6.36	1.28	1.34
3	A1	1228	C	C5-C6	6.36	1.39	1.34
25	BB	1236	G	N1-C2	-6.36	1.32	1.37
25	BB	2163	A	N9-C8	-6.36	1.32	1.37
25	BB	2191	A	P-O5'	6.36	1.66	1.59
25	BB	2421	G	C6-N1	-6.36	1.35	1.39
25	BB	2664	G	N7-C5	-6.36	1.35	1.39
3	A1	1301	U	N1-C6	-6.36	1.32	1.38
25	BB	1775	U	N1-C2	6.36	1.44	1.38
25	BB	2238	G	N7-C5	6.36	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	192	A	C6-N1	-6.36	1.31	1.35
3	A1	566	G	C2'-C1'	-6.36	1.46	1.53
25	BB	310	A	N3-C4	6.36	1.38	1.34
25	BB	809	G	N3-C4	6.36	1.40	1.35
25	BB	1349	C	N3-C4	-6.36	1.29	1.33
25	BB	1901	A	N9-C4	-6.36	1.34	1.37
25	BB	1905	C	C4-N4	-6.36	1.28	1.33
3	A1	1331	G	C2-N2	-6.36	1.28	1.34
3	A1	1475	G	N7-C5	6.36	1.43	1.39
25	BB	1240	U	C5'-C4'	6.36	1.58	1.51
3	A1	1215	G	N9-C8	-6.35	1.33	1.37
5	AC	127	ARG	CZ-NH2	-6.35	1.24	1.33
25	BB	469	G	N3-C4	6.35	1.39	1.35
25	BB	489	G	C5-C4	-6.35	1.33	1.38
25	BB	1989	G	C2-N3	6.35	1.37	1.32
3	A1	823	C	N1-C2	-6.35	1.33	1.40
25	BB	166	U	C2-O2	6.35	1.28	1.22
25	BB	651	G	C3'-O3'	6.35	1.51	1.42
25	BB	681	G	C2-N2	-6.35	1.28	1.34
25	BB	796	C	P-O5'	6.35	1.66	1.59
37	BN	155	ARG	CZ-NH1	-6.35	1.24	1.33
25	BB	1600	C	N3-C4	-6.35	1.29	1.33
25	BB	498	G	N9-C4	6.35	1.43	1.38
25	BB	2116	G	C5-C6	6.35	1.48	1.42
25	BB	2510	C	N1-C6	6.35	1.41	1.37
25	BB	2855	C	O3'-P	-6.35	1.53	1.61
3	A1	215	C	C5-C6	6.35	1.39	1.34
3	A1	592	G	P-O5'	-6.35	1.53	1.59
3	A1	825	A	N1-C2	-6.35	1.28	1.34
25	BB	94	A	C4'-C3'	-6.35	1.46	1.53
25	BB	187	G	N7-C5	6.35	1.43	1.39
25	BB	1614	A	C6-N1	-6.35	1.31	1.35
25	BB	2211	A	C6-N6	-6.35	1.28	1.33
4	AB	212	TYR	CE1-CZ	6.35	1.46	1.38
25	BB	279	A	O3'-P	-6.35	1.53	1.61
25	BB	1087	G	C2'-O2'	-6.35	1.33	1.41
25	BB	1270	C	C4-N4	-6.35	1.28	1.33
25	BB	1364	G	C6-O6	-6.35	1.18	1.24
25	BB	1816	C	C4-N4	-6.35	1.28	1.33
1	AP	14	A	N3-C4	6.34	1.38	1.34
3	A1	23	C	N1-C6	6.34	1.41	1.37
3	A1	357	G	C2-N2	-6.34	1.28	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	491	G	N9-C4	-6.34	1.32	1.38
3	A1	525	C	C3'-C2'	6.34	1.59	1.52
3	A1	1116	U	N1-C2	6.34	1.44	1.38
17	AR	75	TYR	CE2-CZ	6.34	1.46	1.38
25	BB	413	C	O3'-P	-6.34	1.53	1.61
25	BB	1665	A	N9-C8	-6.34	1.32	1.37
25	BB	2346	A	C2'-C1'	6.34	1.60	1.53
25	BB	2811	G	C6-O6	-6.34	1.18	1.24
25	BB	2899	A	C5'-C4'	6.34	1.58	1.51
3	A1	475	C	C3'-O3'	6.34	1.51	1.42
3	A1	595	A	C6-N1	-6.34	1.31	1.35
3	A1	1495	U	N3-C4	-6.34	1.32	1.38
25	BB	14	A	O3'-P	6.34	1.68	1.61
25	BB	198	C	C4-C5	-6.34	1.37	1.43
25	BB	370	G	N7-C5	6.34	1.43	1.39
25	BB	411	G	C8-N7	6.34	1.34	1.30
25	BB	733	G	C2-N3	-6.34	1.27	1.32
25	BB	2791	G	C8-N7	6.34	1.34	1.30
3	A1	255	G	C5-C4	6.34	1.42	1.38
3	A1	315	A	C6-N6	-6.34	1.28	1.33
3	A1	387	U	N1-C2	6.34	1.44	1.38
3	A1	695	A	C5-C6	6.34	1.46	1.41
3	A1	707	U	P-O5'	-6.34	1.53	1.59
3	A1	1028	C	N3-C4	-6.34	1.29	1.33
3	A1	1206	G	C5-C6	6.34	1.48	1.42
25	BB	446	G	C4'-C3'	6.34	1.60	1.53
25	BB	471	A	C6-N1	-6.34	1.31	1.35
25	BB	665	U	C4-C5	6.34	1.49	1.43
25	BB	1093	G	P-O5'	6.34	1.66	1.59
25	BB	1800	C	N3-C4	-6.34	1.29	1.33
25	BB	1845	G	C2-N2	-6.34	1.28	1.34
25	BB	2031	A	N1-C2	-6.34	1.28	1.34
25	BB	2239	G	C6-O6	-6.34	1.18	1.24
25	BB	2712	C	C4-C5	-6.34	1.37	1.43
25	BB	2787	C	C4-N4	-6.34	1.28	1.33
3	A1	241	G	P-O5'	6.34	1.66	1.59
3	A1	829	G	C2-N3	6.34	1.37	1.32
3	A1	1039	G	C8-N7	-6.34	1.27	1.30
25	BB	736	C	P-O5'	-6.34	1.53	1.59
25	BB	1229	C	C2-N3	-6.34	1.30	1.35
25	BB	1386	C	P-O5'	6.34	1.66	1.59
25	BB	1728	C	C5-C6	6.34	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1918	A	C6-N1	-6.34	1.31	1.35
25	BB	1954	G	C5-C6	6.34	1.48	1.42
3	A1	27	G	P-O5'	6.34	1.66	1.59
24	BA	15	A	N7-C5	6.34	1.43	1.39
25	BB	1273	U	C3'-C2'	6.34	1.59	1.52
25	BB	1341	G	P-O5'	6.34	1.66	1.59
25	BB	1780	A	C6-N1	-6.34	1.31	1.35
1	AE	58	A	P-O5'	-6.34	1.53	1.59
3	A1	157	U	C4'-O4'	-6.34	1.37	1.45
3	A1	902	G	N7-C5	6.34	1.43	1.39
25	BB	479	A	C5'-C4'	6.34	1.58	1.51
25	BB	648	G	N7-C5	6.34	1.43	1.39
25	BB	696	G	C5'-C4'	6.34	1.58	1.51
25	BB	1388	G	N1-C2	-6.34	1.32	1.37
25	BB	1454	C	C4-C5	-6.34	1.37	1.43
25	BB	1566	A	C3'-C2'	6.34	1.59	1.52
25	BB	1805	A	C5-C6	6.34	1.46	1.41
25	BB	2519	U	C5'-C4'	6.34	1.58	1.51
55	B6	13	ARG	CZ-NH1	-6.34	1.24	1.33
3	A1	467	U	N1-C6	6.33	1.43	1.38
25	BB	384	A	N3-C4	-6.33	1.31	1.34
25	BB	887	U	C2-O2	-6.33	1.16	1.22
25	BB	987	C	C4'-C3'	6.33	1.60	1.53
1	AE	38	A	C6-N1	-6.33	1.31	1.35
3	A1	267	C	O3'-P	-6.33	1.53	1.61
3	A1	344	A	N3-C4	6.33	1.38	1.34
3	A1	1331	G	O3'-P	-6.33	1.53	1.61
24	BA	26	C	C5-C6	6.33	1.39	1.34
25	BB	1694	C	P-O5'	6.33	1.66	1.59
25	BB	2094	A	P-O5'	-6.33	1.53	1.59
25	BB	2117	A	C4'-C3'	6.33	1.60	1.53
25	BB	2164	C	C4-N4	-6.33	1.28	1.33
25	BB	2274	A	N9-C4	-6.33	1.34	1.37
25	BB	2539	C	C5-C6	6.33	1.39	1.34
25	BB	2540	C	C4-C5	-6.33	1.37	1.43
1	AA	43	G	C2-N3	6.33	1.37	1.32
3	A1	27	G	C4'-C3'	6.33	1.60	1.53
25	BB	204	A	C6-N1	-6.33	1.31	1.35
25	BB	301	G	C2-N2	-6.33	1.28	1.34
25	BB	336	C	C4-C5	-6.33	1.37	1.43
25	BB	1076	C	C2-O2	6.33	1.30	1.24
25	BB	1162	G	N1-C2	-6.33	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1420	A	C6-N1	-6.33	1.31	1.35
25	BB	1881	C	C5'-C4'	6.33	1.58	1.51
25	BB	2211	A	N7-C5	-6.33	1.35	1.39
25	BB	2759	G	O3'-P	-6.33	1.53	1.61
3	A1	346	G	C4'-O4'	-6.33	1.37	1.45
3	A1	1352	C	C5-C6	6.33	1.39	1.34
24	BA	39	A	N3-C4	6.33	1.38	1.34
25	BB	1423	G	C5-C6	6.33	1.48	1.42
1	AA	40	C	C5'-C4'	6.33	1.58	1.51
3	A1	637	C	N3-C4	-6.33	1.29	1.33
3	A1	778	G	C6-N1	-6.33	1.35	1.39
3	A1	1142	G	C4'-C3'	6.33	1.60	1.53
25	BB	622	G	C8-N7	-6.33	1.27	1.30
25	BB	1211	C	N3-C4	-6.33	1.29	1.33
25	BB	1302	A	N7-C5	6.33	1.43	1.39
25	BB	1737	G	C2'-C1'	6.33	1.60	1.53
25	BB	2405	G	C5-C6	6.33	1.48	1.42
1	AP	66	A	C5-C4	-6.33	1.34	1.38
3	A1	561	U	P-O5'	6.33	1.66	1.59
25	BB	555	G	N3-C4	6.33	1.39	1.35
25	BB	1201	U	N1-C2	6.33	1.44	1.38
25	BB	1330	C	C5-C6	6.33	1.39	1.34
25	BB	1594	U	C4-C5	6.33	1.49	1.43
25	BB	2005	A	N9-C8	-6.33	1.32	1.37
3	A1	109	A	C2'-O2'	6.33	1.49	1.41
3	A1	209	U	C5-C6	6.33	1.39	1.34
3	A1	1246	A	N9-C8	-6.33	1.32	1.37
25	BB	446	G	N3-C4	6.33	1.39	1.35
25	BB	1206	G	N3-C4	6.33	1.39	1.35
25	BB	1212	G	N3-C4	6.33	1.39	1.35
25	BB	1219	U	C4-O4	-6.33	1.18	1.23
25	BB	1512	C	N1-C6	-6.33	1.33	1.37
25	BB	1787	A	O3'-P	-6.33	1.53	1.61
25	BB	1912	A	C6-N6	-6.33	1.28	1.33
25	BB	2354	C	C4-N4	-6.33	1.28	1.33
25	BB	2776	A	C2'-O2'	6.33	1.49	1.41
1	AP	22	G	C2-N2	-6.32	1.28	1.34
3	A1	76	G	N7-C5	6.32	1.43	1.39
3	A1	163	C	N3-C4	-6.32	1.29	1.33
3	A1	743	A	O3'-P	6.32	1.68	1.61
25	BB	400	G	O3'-P	-6.32	1.53	1.61
25	BB	2709	G	C4'-O4'	-6.32	1.37	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2834	G	C2-N2	-6.32	1.28	1.34
25	BB	2861	U	C4-O4	-6.32	1.18	1.23
3	A1	1453	G	C8-N7	6.32	1.34	1.30
25	BB	406	G	P-O5'	6.32	1.66	1.59
25	BB	474	G	C6-O6	-6.32	1.18	1.24
25	BB	1943	U	C5-C6	6.32	1.39	1.34
3	A1	421	U	O3'-P	-6.32	1.53	1.61
3	A1	885	G	O4'-C1'	6.32	1.49	1.41
3	A1	1217	C	C4-N4	-6.32	1.28	1.33
3	A1	1394	A	N1-C2	-6.32	1.28	1.34
25	BB	1685	C	C2'-C1'	6.32	1.60	1.53
25	BB	2252	G	C2-N3	6.32	1.37	1.32
25	BB	2721	A	P-O5'	6.32	1.66	1.59
3	A1	376	G	N3-C4	6.32	1.39	1.35
3	A1	444	G	C5'-C4'	6.32	1.58	1.51
25	BB	550	C	O4'-C1'	-6.32	1.33	1.41
25	BB	1493	C	C5'-C4'	6.32	1.58	1.51
25	BB	1757	A	O4'-C1'	6.32	1.49	1.41
25	BB	2727	A	C5'-C4'	6.32	1.58	1.51
1	AP	12	U	P-O5'	-6.32	1.53	1.59
3	A1	158	G	C2-N2	-6.32	1.28	1.34
3	A1	678	U	C4-O4	-6.32	1.18	1.23
25	BB	476	G	C2-N3	-6.32	1.27	1.32
25	BB	743	A	C2-N3	6.32	1.39	1.33
25	BB	1589	U	N1-C6	6.32	1.43	1.38
25	BB	2332	C	N1-C6	6.32	1.41	1.37
25	BB	2737	G	N1-C2	-6.32	1.32	1.37
25	BB	220	G	C5-C4	6.32	1.42	1.38
25	BB	668	A	N9-C8	6.32	1.42	1.37
25	BB	1488	C	C4'-C3'	6.32	1.60	1.53
25	BB	1549	A	C2-N3	-6.32	1.27	1.33
25	BB	2550	G	N1-C2	-6.32	1.32	1.37
25	BB	2876	G	N1-C2	-6.32	1.32	1.37
3	A1	993	G	P-O5'	6.31	1.66	1.59
3	A1	1419	G	N7-C5	6.31	1.43	1.39
25	BB	62	U	N3-C4	-6.31	1.32	1.38
25	BB	2065	C	C4'-O4'	-6.31	1.37	1.45
1	AA	65	G	P-O5'	6.31	1.66	1.59
3	A1	78	A	C2-N3	6.31	1.39	1.33
3	A1	353	A	C8-N7	-6.31	1.27	1.31
3	A1	730	G	C6-N1	-6.31	1.35	1.39
3	A1	989	U	N1-C2	6.31	1.44	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1039	G	C5-C4	6.31	1.42	1.38
25	BB	504	A	N9-C4	6.31	1.41	1.37
25	BB	1349	C	N1-C2	6.31	1.46	1.40
25	BB	1789	A	C5'-C4'	6.31	1.58	1.51
25	BB	2282	G	N7-C5	-6.31	1.35	1.39
25	BB	2749	A	C3'-O3'	6.31	1.50	1.42
25	BB	2840	C	C2-O2	-6.31	1.18	1.24
3	A1	946	A	C8-N7	-6.31	1.27	1.31
3	A1	1044	A	C5-C4	-6.31	1.34	1.38
25	BB	514	A	C5'-C4'	6.31	1.58	1.51
25	BB	1533	C	C2-N3	-6.31	1.30	1.35
25	BB	1705	A	C6-N6	-6.31	1.28	1.33
25	BB	2147	A	P-O5'	6.31	1.66	1.59
3	A1	836	G	O3'-P	-6.31	1.53	1.61
3	A1	1221	G	C2-N2	-6.31	1.28	1.34
3	A1	1322	C	O3'-P	-6.31	1.53	1.61
25	BB	442	G	C2-N3	-6.31	1.27	1.32
25	BB	1280	G	C8-N7	6.31	1.34	1.30
25	BB	1359	A	O3'-P	-6.31	1.53	1.61
25	BB	1400	U	C4'-C3'	6.31	1.60	1.53
25	BB	2100	G	C2-N2	-6.31	1.28	1.34
3	A1	874	G	N3-C4	6.31	1.39	1.35
25	BB	1200	C	C3'-C2'	6.31	1.59	1.52
25	BB	1272	A	N1-C2	-6.31	1.28	1.34
25	BB	1322	A	C3'-O3'	-6.31	1.33	1.42
25	BB	1459	G	C2-N3	6.31	1.37	1.32
25	BB	1506	U	C5'-C4'	6.31	1.58	1.51
25	BB	1650	A	C5-C4	6.31	1.43	1.38
25	BB	1702	G	P-O5'	6.31	1.66	1.59
25	BB	1924	C	C5-C6	6.31	1.39	1.34
25	BB	2003	A	C5-C4	-6.31	1.34	1.38
3	A1	663	A	N1-C2	-6.31	1.28	1.34
25	BB	1374	G	N7-C5	-6.31	1.35	1.39
25	BB	1596	A	N3-C4	6.31	1.38	1.34
25	BB	2313	C	C4'-O4'	-6.31	1.37	1.45
1	AA	12	U	O3'-P	-6.30	1.53	1.61
3	A1	48	C	O4'-C1'	6.30	1.49	1.41
3	A1	184	G	C2'-C1'	6.30	1.60	1.53
3	A1	1268	G	C5'-C4'	6.30	1.58	1.51
3	A1	1409	C	C5-C6	6.30	1.39	1.34
20	AU	94	ARG	NE-CZ	-6.30	1.24	1.33
25	BB	781	A	N3-C4	6.30	1.38	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1206	G	C6-O6	6.30	1.29	1.24
25	BB	1434	A	N7-C5	6.30	1.43	1.39
25	BB	1517	G	C5'-C4'	6.30	1.58	1.51
25	BB	1630	A	N9-C4	-6.30	1.34	1.37
25	BB	2054	A	N3-C4	6.30	1.38	1.34
25	BB	2837	A	P-O5'	6.30	1.66	1.59
1	AP	30	G	C5-C4	6.30	1.42	1.38
25	BB	2117	A	C6-N6	-6.30	1.28	1.33
25	BB	2415	G	N9-C4	-6.30	1.32	1.38
1	AA	13	C	N1-C6	6.30	1.41	1.37
2	AM	4	U	N1-C6	6.30	1.43	1.38
3	A1	213	G	C2'-C1'	6.30	1.60	1.53
3	A1	793	U	C4-C5	6.30	1.49	1.43
25	BB	205	G	C2-N2	-6.30	1.28	1.34
25	BB	505	A	N1-C2	-6.30	1.28	1.34
25	BB	820	A	C8-N7	6.30	1.35	1.31
25	BB	1037	G	C2'-C1'	6.30	1.60	1.53
25	BB	2121	G	C2'-O2'	6.30	1.49	1.41
25	BB	2325	G	N3-C4	6.30	1.39	1.35
25	BB	2893	A	C6-N1	-6.30	1.31	1.35
3	A1	687	A	C6-N1	-6.30	1.31	1.35
3	A1	1064	G	C8-N7	6.30	1.34	1.30
25	BB	476	G	C2-N2	-6.30	1.28	1.34
25	BB	983	A	N1-C2	-6.30	1.28	1.34
25	BB	2050	C	N3-C4	-6.30	1.29	1.33
25	BB	2553	G	N9-C8	6.30	1.42	1.37
33	BJ	44	TYR	CE2-CZ	6.30	1.46	1.38
3	A1	241	G	N9-C8	-6.30	1.33	1.37
3	A1	1204	A	C8-N7	-6.30	1.27	1.31
25	BB	1809	A	C5-C4	-6.30	1.34	1.38
25	BB	1996	C	P-O5'	6.30	1.66	1.59
3	A1	529	G	N1-C2	-6.30	1.32	1.37
3	A1	674	G	C6-O6	6.30	1.29	1.24
3	A1	1101	A	C5'-C4'	6.30	1.58	1.51
3	A1	1205	U	C4-O4	-6.30	1.18	1.23
3	A1	1527	U	N3-C4	-6.30	1.32	1.38
25	BB	741	U	C2'-O2'	6.30	1.49	1.41
25	BB	1978	A	N3-C4	6.30	1.38	1.34
25	BB	2806	C	O4'-C1'	6.30	1.49	1.41
25	BB	2832	U	N3-C4	-6.30	1.32	1.38
25	BB	2313	C	O3'-P	-6.29	1.53	1.61
25	BB	2417	C	C4-N4	-6.29	1.28	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	42	G	C5-C4	6.29	1.42	1.38
25	BB	1003	G	C2'-C1'	-6.29	1.46	1.53
25	BB	2042	A	C6-N1	6.29	1.40	1.35
25	BB	2607	G	P-O5'	-6.29	1.53	1.59
1	AE	15	G	C5'-C4'	6.29	1.58	1.51
3	A1	158	G	C2'-C1'	-6.29	1.46	1.53
3	A1	165	G	N7-C5	-6.29	1.35	1.39
3	A1	363	A	C2-N3	6.29	1.39	1.33
3	A1	829	G	C6-O6	-6.29	1.18	1.24
3	A1	1202	U	C4-C5	6.29	1.49	1.43
3	A1	1532	U	C2'-O2'	6.29	1.49	1.41
25	BB	1251	C	C5'-C4'	6.29	1.58	1.51
25	BB	1393	A	C6-N6	-6.29	1.28	1.33
25	BB	2575	C	C2'-C1'	6.29	1.60	1.53
50	B1	88	ARG	CZ-NH1	-6.29	1.24	1.33
3	A1	501	C	C4'-C3'	-6.29	1.46	1.53
3	A1	709	U	C3'-C2'	6.29	1.59	1.52
25	BB	470	A	N3-C4	6.29	1.38	1.34
25	BB	2414	G	C5-C6	6.29	1.48	1.42
25	BB	2736	A	C4'-O4'	-6.29	1.37	1.45
25	BB	2794	C	N1-C2	6.29	1.46	1.40
37	BN	248	GLY	CA-C	6.29	1.61	1.51
3	A1	204	G	N7-C5	-6.29	1.35	1.39
3	A1	529	G	N9-C4	6.29	1.43	1.38
3	A1	654	G	C5-C6	6.29	1.48	1.42
25	BB	410	G	C4'-O4'	-6.29	1.37	1.45
25	BB	703	U	N1-C2	6.29	1.44	1.38
25	BB	1604	C	C4'-C3'	-6.29	1.46	1.53
3	A1	940	C	C2-N3	-6.29	1.30	1.35
3	A1	1309	G	N3-C4	6.29	1.39	1.35
3	A1	1343	G	C5'-C4'	6.29	1.58	1.51
25	BB	891	G	P-O5'	-6.29	1.53	1.59
25	BB	1437	C	C4-C5	-6.29	1.38	1.43
1	AP	34	G	C2-N2	-6.29	1.28	1.34
3	A1	79	G	P-O5'	6.29	1.66	1.59
3	A1	484	G	C8-N7	6.29	1.34	1.30
3	A1	650	G	C6-N1	-6.29	1.35	1.39
3	A1	1210	C	N1-C6	6.29	1.41	1.37
25	BB	445	C	C2-N3	6.29	1.40	1.35
25	BB	933	A	N3-C4	6.29	1.38	1.34
25	BB	1034	G	C8-N7	-6.29	1.27	1.30
25	BB	1832	C	N1-C6	6.29	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2493	U	N3-C4	-6.29	1.32	1.38
25	BB	2598	A	C5'-C4'	6.29	1.58	1.51
25	BB	2718	G	C2-N2	-6.29	1.28	1.34
1	AP	30	G	C2-N2	-6.28	1.28	1.34
3	A1	330	C	C4'-O4'	-6.28	1.37	1.45
3	A1	1313	U	C5-C6	6.28	1.39	1.34
24	BA	61	G	N1-C2	-6.28	1.32	1.37
25	BB	104	A	P-O5'	6.28	1.66	1.59
25	BB	504	A	C6-N6	-6.28	1.28	1.33
25	BB	810	U	N3-C4	-6.28	1.32	1.38
25	BB	1427	A	C5-C4	-6.28	1.34	1.38
25	BB	2714	G	N3-C4	6.28	1.39	1.35
40	BQ	48	ARG	CZ-NH1	-6.28	1.24	1.33
3	A1	1418	A	C6-N6	-6.28	1.28	1.33
25	BB	717	C	C2'-O2'	6.28	1.49	1.41
25	BB	1037	G	N3-C4	-6.28	1.31	1.35
25	BB	1759	A	N7-C5	6.28	1.43	1.39
25	BB	2127	G	N3-C4	6.28	1.39	1.35
25	BB	2735	G	N1-C2	-6.28	1.32	1.37
3	A1	183	C	C4'-O4'	-6.28	1.37	1.45
3	A1	654	G	N1-C2	-6.28	1.32	1.37
25	BB	118	A	C5-C6	6.28	1.46	1.41
25	BB	1479	G	C2-N3	-6.28	1.27	1.32
25	BB	2581	G	C6-N1	-6.28	1.35	1.39
25	BB	1726	C	C5'-C4'	6.28	1.58	1.51
1	AA	22	G	C2-N2	-6.28	1.28	1.34
3	A1	157	U	O4'-C1'	6.28	1.49	1.41
3	A1	368	U	C4-O4	-6.28	1.18	1.23
3	A1	388	G	C2-N2	-6.28	1.28	1.34
4	AB	136	ARG	CZ-NH2	-6.28	1.24	1.33
25	BB	82	U	O3'-P	-6.28	1.53	1.61
25	BB	168	G	P-O5'	6.28	1.66	1.59
25	BB	2340	A	C6-N6	-6.28	1.28	1.33
25	BB	2368	C	P-O5'	6.28	1.66	1.59
3	A1	177	G	C2-N2	-6.28	1.28	1.34
3	A1	730	G	P-O5'	6.28	1.66	1.59
3	A1	1340	A	O3'-P	6.28	1.68	1.61
3	A1	1434	A	C6-N6	-6.28	1.28	1.33
25	BB	56	A	C6-N1	-6.28	1.31	1.35
25	BB	1062	G	O3'-P	-6.28	1.53	1.61
25	BB	2209	G	C2-N2	-6.28	1.28	1.34
25	BB	2622	U	O4'-C1'	6.28	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	968	A	C2-N3	6.27	1.39	1.33
48	BY	81	GLU	CD-OE1	6.27	1.32	1.25
1	AE	75	C	N3-C4	-6.27	1.29	1.33
3	A1	251	G	C6-N1	-6.27	1.35	1.39
25	BB	1309	G	O3'-P	-6.27	1.53	1.61
25	BB	1320	C	C1'-N1	6.27	1.58	1.48
25	BB	2749	A	C4'-C3'	-6.27	1.46	1.53
3	A1	725	G	C5'-C4'	6.27	1.58	1.51
24	BA	107	G	N7-C5	6.27	1.43	1.39
25	BB	627	A	N7-C5	6.27	1.43	1.39
25	BB	1501	G	C2-N2	-6.27	1.28	1.34
3	A1	412	A	N7-C5	-6.27	1.35	1.39
24	BA	72	G	C2'-C1'	-6.27	1.46	1.53
25	BB	1507	C	P-O5'	-6.27	1.53	1.59
25	BB	1645	G	N7-C5	6.27	1.43	1.39
25	BB	1711	A	C6-N6	-6.27	1.28	1.33
25	BB	1888	G	C4'-C3'	-6.27	1.46	1.53
25	BB	2169	A	C6-N1	-6.27	1.31	1.35
3	A1	1041	G	C5'-C4'	6.27	1.58	1.51
24	BA	41	G	N9-C8	-6.27	1.33	1.37
24	BA	83	G	C5-C4	-6.27	1.33	1.38
25	BB	9	G	C2-N2	-6.27	1.28	1.34
25	BB	201	C	P-O5'	6.27	1.66	1.59
25	BB	264	C	C4'-O4'	-6.27	1.37	1.45
25	BB	600	G	C6-N1	-6.27	1.35	1.39
25	BB	2634	A	C6-N1	-6.27	1.31	1.35
32	BI	24	THR	CB-OG1	-6.27	1.30	1.43
54	B5	65	SER	CB-OG	-6.27	1.34	1.42
3	A1	818	G	N7-C5	6.27	1.43	1.39
25	BB	890	C	C4-N4	-6.27	1.28	1.33
25	BB	1734	G	N1-C2	-6.27	1.32	1.37
3	A1	412	A	N9-C8	6.26	1.42	1.37
3	A1	607	A	O4'-C1'	6.26	1.49	1.41
3	A1	624	C	C5-C6	6.26	1.39	1.34
3	A1	868	C	C4-N4	-6.26	1.28	1.33
3	A1	1417	G	C6-O6	-6.26	1.18	1.24
25	BB	634	C	C4-N4	-6.26	1.28	1.33
25	BB	694	U	O3'-P	-6.26	1.53	1.61
25	BB	918	A	C5-C4	-6.26	1.34	1.38
25	BB	1208	C	O3'-P	-6.26	1.53	1.61
25	BB	1575	C	P-O5'	-6.26	1.53	1.59
25	BB	1898	U	C5-C6	6.26	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2481	G	C2-N2	-6.26	1.28	1.34
25	BB	1743	G	N9-C4	-6.26	1.32	1.38
25	BB	2748	A	C5-C6	-6.26	1.35	1.41
37	BN	179	GLU	CG-CD	6.26	1.61	1.51
1	AA	30	G	N3-C4	6.26	1.39	1.35
3	A1	226	G	C5-C4	-6.26	1.33	1.38
3	A1	235	C	C4-C5	-6.26	1.38	1.43
3	A1	908	A	C4'-O4'	-6.26	1.37	1.45
3	A1	1416	G	C2-N2	-6.26	1.28	1.34
25	BB	1239	G	C2'-C1'	-6.26	1.46	1.53
25	BB	1437	C	C3'-C2'	-6.26	1.45	1.52
25	BB	1849	G	C2-N2	-6.26	1.28	1.34
25	BB	2208	C	N1-C6	-6.26	1.33	1.37
25	BB	2343	U	C5-C6	6.26	1.39	1.34
3	A1	763	G	N9-C8	-6.26	1.33	1.37
3	A1	1121	U	C4'-C3'	6.26	1.60	1.53
3	A1	1534	A	N7-C5	6.26	1.43	1.39
25	BB	242	G	N3-C4	6.26	1.39	1.35
25	BB	636	G	C5-C4	6.26	1.42	1.38
25	BB	1063	G	C2-N2	-6.26	1.28	1.34
25	BB	1273	U	P-O5'	-6.26	1.53	1.59
37	BN	82	TYR	CG-CD1	6.26	1.47	1.39
3	A1	1216	A	C8-N7	-6.26	1.27	1.31
3	A1	1220	G	N1-C2	-6.26	1.32	1.37
1	AE	26	G	N9-C8	6.26	1.42	1.37
3	A1	164	G	C2'-O2'	6.26	1.49	1.41
3	A1	1310	G	N1-C2	-6.26	1.32	1.37
25	BB	452	G	C4'-O4'	-6.26	1.37	1.45
25	BB	2295	C	C2-N3	6.26	1.40	1.35
25	BB	894	U	C3'-C2'	6.25	1.59	1.52
3	A1	888	G	C2'-C1'	-6.25	1.46	1.53
3	A1	1224	U	C2-O2	6.25	1.27	1.22
25	BB	167	A	N1-C2	-6.25	1.28	1.34
25	BB	481	G	C4'-O4'	-6.25	1.37	1.45
25	BB	544	C	C1'-N1	6.25	1.58	1.48
25	BB	1062	G	C5'-C4'	6.25	1.58	1.51
25	BB	2084	C	P-O5'	-6.25	1.53	1.59
25	BB	2283	C	O3'-P	-6.25	1.53	1.61
25	BB	2820	A	C5'-C4'	6.25	1.58	1.51
51	B2	84	ILE	N-CA	6.25	1.58	1.46
1	AP	63	C	C3'-O3'	-6.25	1.33	1.42
1	AE	66	A	C5-C6	6.25	1.46	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1354	U	N1-C2	6.25	1.44	1.38
25	BB	452	G	N9-C4	6.25	1.43	1.38
25	BB	1006	C	C4-C5	-6.25	1.38	1.43
25	BB	2135	A	C4'-C3'	-6.25	1.46	1.53
25	BB	2187	U	C2-N3	-6.25	1.33	1.37
3	A1	458	U	C4'-O4'	-6.25	1.37	1.45
3	A1	535	A	C8-N7	6.25	1.35	1.31
3	A1	1429	A	C2-N3	6.25	1.39	1.33
25	BB	145	C	C5-C6	6.25	1.39	1.34
25	BB	1507	C	N1-C2	6.25	1.46	1.40
25	BB	2585	U	C2'-O2'	6.25	1.49	1.41
25	BB	572	A	C6-N6	-6.25	1.28	1.33
25	BB	669	G	C2'-O2'	6.25	1.49	1.41
25	BB	970	U	C5-C6	6.25	1.39	1.34
25	BB	1020	A	N3-C4	-6.25	1.31	1.34
1	AE	29	A	N7-C5	6.25	1.43	1.39
3	A1	1115	U	O3'-P	-6.25	1.53	1.61
3	A1	1134	G	C5-C6	6.25	1.48	1.42
3	A1	1423	G	N9-C8	-6.25	1.33	1.37
24	BA	54	G	N1-C2	-6.25	1.32	1.37
25	BB	377	G	C2-N2	-6.25	1.28	1.34
25	BB	948	C	N3-C4	-6.25	1.29	1.33
25	BB	1010	A	N9-C4	6.25	1.41	1.37
25	BB	2347	C	N3-C4	-6.25	1.29	1.33
25	BB	2546	U	N3-C4	-6.25	1.32	1.38
25	BB	2660	A	N9-C4	6.25	1.41	1.37
25	BB	2704	C	N3-C4	-6.25	1.29	1.33
25	BB	2741	A	C8-N7	-6.25	1.27	1.31
1	AP	29	A	N3-C4	6.25	1.38	1.34
3	A1	650	G	N1-C2	-6.25	1.32	1.37
25	BB	45	G	O3'-P	-6.25	1.53	1.61
25	BB	1233	C	C5'-C4'	6.25	1.58	1.51
25	BB	1267	U	C2-O2	6.25	1.27	1.22
25	BB	2469	A	N1-C2	-6.25	1.28	1.34
3	A1	118	U	C2'-O2'	6.24	1.49	1.41
3	A1	131	A	O3'-P	-6.24	1.53	1.61
3	A1	330	C	C5-C6	6.24	1.39	1.34
3	A1	505	G	C5-C4	-6.24	1.33	1.38
3	A1	1223	C	O4'-C1'	6.24	1.49	1.41
3	A1	1231	G	C8-N7	6.24	1.34	1.30
25	BB	572	A	N7-C5	6.24	1.43	1.39
25	BB	1633	G	N1-C2	-6.24	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2082	A	O3'-P	-6.24	1.53	1.61
3	A1	53	A	C6-N1	-6.24	1.31	1.35
3	A1	76	G	C2'-C1'	-6.24	1.46	1.53
25	BB	1243	C	C4'-C3'	6.24	1.60	1.53
3	A1	995	C	C2'-C1'	6.24	1.60	1.53
3	A1	1163	A	C5'-C4'	6.24	1.58	1.51
24	BA	109	A	N3-C4	6.24	1.38	1.34
25	BB	630	G	C2-N2	-6.24	1.28	1.34
25	BB	645	C	N3-C4	-6.24	1.29	1.33
25	BB	681	G	C8-N7	6.24	1.34	1.30
25	BB	821	A	C5-C6	6.24	1.46	1.41
25	BB	1535	A	C3'-O3'	6.24	1.50	1.42
25	BB	2568	U	C3'-C2'	6.24	1.59	1.52
1	AA	23	A	C6-N6	6.24	1.39	1.33
1	AA	66	A	C2'-C1'	-6.24	1.46	1.53
1	AP	43	G	C4'-O4'	-6.24	1.37	1.45
3	A1	23	C	C4-N4	-6.24	1.28	1.33
3	A1	301	G	C3'-O3'	6.24	1.50	1.42
3	A1	550	G	N7-C5	6.24	1.43	1.39
3	A1	668	G	N3-C4	6.24	1.39	1.35
3	A1	1123	U	C5'-C4'	6.24	1.58	1.51
3	A1	1534	A	C6-N6	-6.24	1.28	1.33
25	BB	613	A	C3'-C2'	-6.24	1.45	1.52
25	BB	1223	G	C2-N2	-6.24	1.28	1.34
25	BB	2405	G	C6-N1	-6.24	1.35	1.39
3	A1	677	U	O3'-P	-6.24	1.53	1.61
24	BA	52	A	C5-C6	6.24	1.46	1.41
1	AP	41	U	N1-C2	6.24	1.44	1.38
3	A1	492	C	C2-O2	-6.24	1.18	1.24
25	BB	26	G	C2-N2	-6.24	1.28	1.34
25	BB	295	G	C6-N1	-6.24	1.35	1.39
25	BB	1065	U	C2'-O2'	6.24	1.49	1.41
1	AE	57	G	C2'-C1'	-6.23	1.46	1.53
3	A1	175	C	C5-C6	6.23	1.39	1.34
3	A1	774	G	C5'-C4'	6.23	1.58	1.51
3	A1	1424	U	C5'-C4'	6.23	1.58	1.51
25	BB	363	G	C2-N3	-6.23	1.27	1.32
3	A1	12	U	C5'-C4'	6.23	1.58	1.51
3	A1	235	C	N3-C4	-6.23	1.29	1.33
3	A1	304	U	C4-O4	-6.23	1.18	1.23
9	AH	68	TYR	CE1-CZ	6.23	1.46	1.38
25	BB	262	A	C5'-C4'	6.23	1.58	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	840	C	P-O5'	-6.23	1.53	1.59
3	A1	273	U	C4'-C3'	6.23	1.60	1.53
3	A1	874	G	N7-C5	6.23	1.43	1.39
24	BA	43	C	C2-N3	-6.23	1.30	1.35
25	BB	1037	G	N1-C2	-6.23	1.32	1.37
25	BB	1059	G	N9-C8	6.23	1.42	1.37
25	BB	1089	A	C6-N6	-6.23	1.28	1.33
25	BB	1322	A	N1-C2	-6.23	1.28	1.34
25	BB	1569	A	P-O5'	6.23	1.66	1.59
1	AA	73	A	C1'-N9	6.23	1.58	1.48
1	AE	45	G	N1-C2	-6.23	1.32	1.37
3	A1	404	G	C8-N7	6.23	1.34	1.30
25	BB	298	G	O3'-P	-6.23	1.53	1.61
25	BB	2215	C	C4-C5	6.23	1.48	1.43
25	BB	2720	U	O4'-C1'	6.23	1.49	1.41
3	A1	493	A	C4'-O4'	-6.23	1.37	1.45
3	A1	532	A	C5-C6	6.23	1.46	1.41
3	A1	1340	A	C6-N6	-6.23	1.28	1.33
3	A1	1373	G	N7-C5	6.23	1.43	1.39
15	AO	192	TYR	CE2-CZ	6.23	1.46	1.38
17	AR	187	ARG	CZ-NH1	-6.23	1.25	1.33
24	BA	46	A	C5-C6	6.23	1.46	1.41
25	BB	81	G	C2-N2	-6.23	1.28	1.34
25	BB	213	A	C5-C6	6.23	1.46	1.41
25	BB	743	A	C2'-O2'	6.23	1.49	1.41
25	BB	1643	G	P-O5'	6.23	1.66	1.59
25	BB	2184	A	N7-C5	6.23	1.43	1.39
25	BB	2324	U	C2-N3	-6.23	1.33	1.37
25	BB	1438	U	C4'-C3'	6.23	1.59	1.53
25	BB	2283	C	P-O5'	6.23	1.66	1.59
25	BB	2740	A	N9-C4	6.23	1.41	1.37
11	AJ	64	ARG	CZ-NH1	-6.22	1.25	1.33
25	BB	792	A	O3'-P	-6.22	1.53	1.61
25	BB	1061	U	C3'-O3'	6.22	1.50	1.42
25	BB	1422	G	C6-N1	-6.22	1.35	1.39
25	BB	1998	A	N9-C8	6.22	1.42	1.37
25	BB	2049	G	C4'-C3'	-6.22	1.46	1.53
25	BB	2072	C	N1-C6	-6.22	1.33	1.37
25	BB	2428	G	N9-C4	-6.22	1.32	1.38
25	BB	2452	C	C3'-O3'	6.22	1.50	1.42
1	AP	64	A	N3-C4	6.22	1.38	1.34
3	A1	370	C	C5-C6	6.22	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	505	G	C2-N2	-6.22	1.28	1.34
24	BA	29	A	C5-C4	6.22	1.43	1.38
25	BB	77	G	O3'-P	-6.22	1.53	1.61
25	BB	1155	A	N3-C4	6.22	1.38	1.34
25	BB	1333	G	O3'-P	6.22	1.68	1.61
25	BB	1358	G	P-O5'	-6.22	1.53	1.59
25	BB	1989	G	N9-C8	-6.22	1.33	1.37
25	BB	2793	C	C3'-C2'	6.22	1.59	1.52
1	AA	48	C	C4-N4	-6.22	1.28	1.33
1	AE	66	A	N9-C4	-6.22	1.34	1.37
3	A1	180	U	C4-C5	6.22	1.49	1.43
3	A1	243	A	C8-N7	6.22	1.35	1.31
3	A1	1372	U	C2-O2	6.22	1.27	1.22
25	BB	181	A	C5'-C4'	6.22	1.58	1.51
25	BB	1479	G	C5-C6	6.22	1.48	1.42
25	BB	2110	G	O5'-C5'	-6.22	1.32	1.42
25	BB	1547	C	C2-O2	-6.22	1.18	1.24
3	A1	1153	G	C3'-C2'	6.22	1.59	1.52
3	A1	1367	C	N1-C2	6.22	1.46	1.40
25	BB	193	U	C4-C5	6.22	1.49	1.43
25	BB	266	G	C8-N7	-6.22	1.27	1.30
25	BB	1000	A	N9-C4	-6.22	1.34	1.37
25	BB	1384	A	C6-N6	-6.22	1.28	1.33
25	BB	2048	G	C3'-C2'	6.22	1.59	1.52
25	BB	2248	C	C4-N4	-6.22	1.28	1.33
25	BB	2258	C	C4'-O4'	-6.22	1.37	1.45
25	BB	2314	A	N3-C4	6.22	1.38	1.34
1	AA	21	A	N9-C4	6.21	1.41	1.37
3	A1	1324	A	C6-N6	-6.21	1.28	1.33
25	BB	234	U	N1-C6	6.21	1.43	1.38
25	BB	949	G	C8-N7	6.21	1.34	1.30
25	BB	1086	A	C6-N1	6.21	1.40	1.35
25	BB	1364	G	C6-N1	-6.21	1.35	1.39
25	BB	1544	A	N9-C4	-6.21	1.34	1.37
25	BB	1641	A	N9-C8	6.21	1.42	1.37
3	A1	450	G	C4'-O4'	-6.21	1.37	1.45
3	A1	931	C	C5'-C4'	6.21	1.58	1.51
25	BB	809	G	C2-N2	-6.21	1.28	1.34
25	BB	985	C	C5-C6	6.21	1.39	1.34
25	BB	1569	A	C6-N1	-6.21	1.31	1.35
25	BB	2140	G	N7-C5	6.21	1.43	1.39
25	BB	2533	U	C2'-C1'	-6.21	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	BJ	10	ARG	CZ-NH2	-6.21	1.25	1.33
50	B1	21	ARG	CZ-NH1	-6.21	1.25	1.33
1	AE	47	U	C4'-C3'	6.21	1.59	1.53
25	BB	406	G	C3'-C2'	6.21	1.59	1.52
25	BB	584	C	N3-C4	-6.21	1.29	1.33
25	BB	1450	G	C2-N2	-6.21	1.28	1.34
25	BB	1515	A	C5-C4	-6.21	1.34	1.38
25	BB	2411	A	P-O5'	-6.21	1.53	1.59
25	BB	2497	A	N1-C2	-6.21	1.28	1.34
25	BB	2665	A	C3'-C2'	6.21	1.59	1.52
25	BB	2802	G	N3-C4	6.21	1.39	1.35
3	A1	295	C	C3'-O3'	6.21	1.50	1.42
3	A1	462	G	N9-C4	6.21	1.43	1.38
3	A1	1519	A	C4'-O4'	-6.21	1.37	1.45
15	AO	10	ARG	CZ-NH2	-6.21	1.25	1.33
25	BB	602	A	C2-N3	-6.21	1.27	1.33
25	BB	1074	G	N9-C4	6.21	1.43	1.38
1	AP	74	C	C2-N3	-6.21	1.30	1.35
3	A1	529	G	C2-N2	-6.21	1.28	1.34
3	A1	1440	U	C4'-C3'	-6.21	1.46	1.53
24	BA	6	G	C5-C6	6.21	1.48	1.42
24	BA	111	U	C5'-C4'	6.21	1.58	1.51
25	BB	443	A	N9-C4	6.21	1.41	1.37
25	BB	962	G	C3'-C2'	6.21	1.59	1.52
25	BB	976	G	C2-N2	-6.21	1.28	1.34
25	BB	2631	G	C6-N1	-6.21	1.35	1.39
1	AA	35	A	C5-C4	-6.21	1.34	1.38
3	A1	572	A	N9-C4	6.21	1.41	1.37
3	A1	704	A	C6-N6	-6.21	1.28	1.33
3	A1	753	A	N7-C5	6.21	1.43	1.39
3	A1	881	G	C6-O6	-6.21	1.18	1.24
3	A1	1035	A	C4'-O4'	-6.21	1.37	1.45
3	A1	1051	C	C5'-C4'	6.21	1.58	1.51
3	A1	1381	U	C2-N3	-6.21	1.33	1.37
3	A1	1530	G	N1-C2	-6.21	1.32	1.37
25	BB	40	U	N1-C2	6.21	1.44	1.38
25	BB	503	A	N3-C4	6.21	1.38	1.34
25	BB	1283	G	C2'-O2'	6.21	1.49	1.41
25	BB	1631	G	N7-C5	6.21	1.43	1.39
25	BB	1811	G	C6-N1	-6.21	1.35	1.39
25	BB	2630	G	C4'-O4'	-6.21	1.37	1.45
3	A1	1290	G	N1-C2	-6.21	1.32	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	712	G	C8-N7	-6.21	1.27	1.30
25	BB	1611	C	C5'-C4'	6.21	1.58	1.51
25	BB	2033	A	C6-N1	-6.21	1.31	1.35
25	BB	2313	C	C4-C5	-6.21	1.38	1.43
25	BB	2407	A	N9-C4	6.21	1.41	1.37
3	A1	376	G	C2-N2	-6.20	1.28	1.34
3	A1	601	G	N3-C4	6.20	1.39	1.35
5	AC	92	ARG	CZ-NH2	-6.20	1.25	1.33
25	BB	306	U	O3'-P	-6.20	1.53	1.61
25	BB	340	A	O3'-P	-6.20	1.53	1.61
25	BB	658	U	N3-C4	-6.20	1.32	1.38
25	BB	833	A	O3'-P	-6.20	1.53	1.61
2	AM	12	U	N1-C6	6.20	1.43	1.38
3	A1	836	G	N7-C5	6.20	1.43	1.39
25	BB	2609	U	C2'-C1'	-6.20	1.46	1.53
25	BB	2769	U	C3'-C2'	6.20	1.59	1.52
3	A1	144	G	N3-C4	-6.20	1.31	1.35
3	A1	586	C	N3-C4	-6.20	1.29	1.33
3	A1	752	G	C5-C4	-6.20	1.34	1.38
24	BA	36	C	C5-C6	6.20	1.39	1.34
24	BA	115	A	N9-C8	6.20	1.42	1.37
25	BB	776	G	C6-N1	-6.20	1.35	1.39
25	BB	951	C	C3'-O3'	6.20	1.50	1.42
25	BB	1054	A	C5'-C4'	6.20	1.58	1.51
25	BB	2175	C	C3'-O3'	-6.20	1.33	1.42
25	BB	2203	U	C5'-C4'	6.20	1.58	1.51
25	BB	2486	C	N1-C6	6.20	1.40	1.37
1	AA	51	G	C6-N1	-6.20	1.35	1.39
3	A1	393	A	C5-C4	-6.20	1.34	1.38
3	A1	623	C	C4'-C3'	6.20	1.59	1.53
3	A1	778	G	C2-N3	-6.20	1.27	1.32
25	BB	1199	U	O4'-C1'	6.20	1.49	1.41
25	BB	2538	C	N3-C4	-6.20	1.29	1.33
25	BB	2677	G	C8-N7	6.20	1.34	1.30
25	BB	2807	U	C4'-O4'	-6.20	1.37	1.45
3	A1	1358	U	N1-C6	6.20	1.43	1.38
25	BB	396	G	N7-C5	6.20	1.43	1.39
25	BB	2497	A	N7-C5	6.20	1.43	1.39
3	A1	424	G	C5'-C4'	6.20	1.58	1.51
3	A1	828	U	C5-C6	6.20	1.39	1.34
3	A1	1229	A	N1-C2	-6.20	1.28	1.34
25	BB	259	G	C3'-C2'	6.20	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	323	C	C1'-N1	6.20	1.58	1.48
25	BB	520	G	C2-N2	-6.20	1.28	1.34
25	BB	693	A	N9-C4	6.20	1.41	1.37
25	BB	890	C	C2'-C1'	6.20	1.60	1.53
25	BB	1652	A	O3'-P	-6.20	1.53	1.61
25	BB	1661	G	C6-O6	6.20	1.29	1.24
25	BB	1697	G	N3-C4	6.20	1.39	1.35
25	BB	1732	C	C5-C6	6.20	1.39	1.34
2	AM	15	U	N3-C4	-6.19	1.32	1.38
3	A1	1364	U	C3'-C2'	-6.19	1.46	1.52
3	A1	157	U	C4-C5	6.19	1.49	1.43
3	A1	530	G	N1-C2	6.19	1.42	1.37
3	A1	957	U	O4'-C1'	-6.19	1.33	1.41
25	BB	734	A	C5'-C4'	6.19	1.58	1.51
25	BB	1090	A	C2'-C1'	6.19	1.60	1.53
25	BB	1616	A	C8-N7	-6.19	1.27	1.31
25	BB	2262	U	O3'-P	-6.19	1.53	1.61
25	BB	2412	A	O3'-P	-6.19	1.53	1.61
1	AP	68	U	C3'-O3'	-6.19	1.33	1.42
3	A1	352	C	C3'-C2'	6.19	1.59	1.52
3	A1	417	G	N9-C4	-6.19	1.32	1.38
3	A1	533	A	N3-C4	6.19	1.38	1.34
3	A1	662	U	N3-C4	-6.19	1.32	1.38
3	A1	996	A	C3'-C2'	-6.19	1.46	1.52
25	BB	216	A	C6-N6	-6.19	1.28	1.33
25	BB	410	G	C2-N2	-6.19	1.28	1.34
25	BB	671	C	C5-C6	6.19	1.39	1.34
25	BB	808	G	N1-C2	-6.19	1.32	1.37
25	BB	1394	U	C2-N3	6.19	1.42	1.37
25	BB	2341	G	N3-C4	6.19	1.39	1.35
25	BB	2753	A	C5-C4	-6.19	1.34	1.38
3	A1	158	G	N9-C8	6.19	1.42	1.37
3	A1	216	U	C3'-C2'	6.19	1.59	1.52
3	A1	974	A	C6-N1	-6.19	1.31	1.35
25	BB	1401	G	C2-N2	-6.19	1.28	1.34
25	BB	1629	U	C2'-C1'	6.19	1.60	1.53
25	BB	2157	G	C2-N2	-6.19	1.28	1.34
25	BB	2810	A	N3-C4	6.19	1.38	1.34
1	AE	14	A	C5-C4	6.19	1.43	1.38
3	A1	465	A	N3-C4	6.19	1.38	1.34
3	A1	1271	A	C5-C6	6.19	1.46	1.41
25	BB	830	G	C5-C6	6.19	1.48	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1453	A	C4'-C3'	-6.19	1.46	1.53
25	BB	2478	A	C6-N1	-6.19	1.31	1.35
3	A1	928	G	N3-C4	6.19	1.39	1.35
3	A1	1175	G	C6-O6	-6.19	1.18	1.24
24	BA	69	G	N9-C8	6.19	1.42	1.37
25	BB	83	A	N9-C8	6.19	1.42	1.37
25	BB	2470	G	C5-C4	6.19	1.42	1.38
25	BB	2578	G	C4'-C3'	6.19	1.59	1.53
25	BB	2834	G	C2-N3	6.19	1.37	1.32
3	A1	224	U	N3-C4	-6.18	1.32	1.38
3	A1	911	U	P-O5'	-6.18	1.53	1.59
25	BB	43	G	C6-N1	-6.18	1.35	1.39
25	BB	489	G	N3-C4	6.18	1.39	1.35
25	BB	2560	A	C6-N1	-6.18	1.31	1.35
25	BB	2733	A	O3'-P	-6.18	1.53	1.61
1	AP	58	A	N7-C5	6.18	1.43	1.39
3	A1	1500	A	N3-C4	6.18	1.38	1.34
25	BB	28	A	C6-N1	-6.18	1.31	1.35
25	BB	548	G	C6-N1	-6.18	1.35	1.39
25	BB	853	C	C2'-C1'	6.18	1.60	1.53
25	BB	1057	A	C5'-C4'	6.18	1.58	1.51
25	BB	1617	C	C4'-C3'	6.18	1.59	1.53
25	BB	2811	G	C6-N1	-6.18	1.35	1.39
51	B2	114	ARG	CZ-NH2	-6.18	1.25	1.33
3	A1	184	G	N7-C5	6.18	1.43	1.39
3	A1	1212	U	C4-C5	6.18	1.49	1.43
25	BB	805	G	P-O5'	-6.18	1.53	1.59
1	AA	17	U	P-O5'	-6.18	1.53	1.59
3	A1	656	G	C2-N3	6.18	1.37	1.32
3	A1	1036	A	N1-C2	-6.18	1.28	1.34
3	A1	1171	A	C6-N6	-6.18	1.29	1.33
3	A1	1322	C	C5'-C4'	6.18	1.58	1.51
25	BB	12	U	C5'-C4'	6.18	1.58	1.51
25	BB	733	G	C8-N7	-6.18	1.27	1.30
25	BB	992	C	N3-C4	-6.18	1.29	1.33
25	BB	1633	G	C5-C4	6.18	1.42	1.38
25	BB	1773	A	N9-C4	-6.18	1.34	1.37
25	BB	1967	C	C4-N4	-6.18	1.28	1.33
25	BB	2289	G	N9-C4	6.18	1.42	1.38
25	BB	2425	A	O3'-P	-6.18	1.53	1.61
41	BR	29	ARG	CZ-NH1	-6.18	1.25	1.33
3	A1	32	A	C5-C4	-6.18	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	40	C	N3-C4	-6.18	1.29	1.33
3	A1	177	G	C3'-O3'	6.18	1.50	1.42
3	A1	1475	G	O4'-C1'	6.18	1.49	1.41
25	BB	134	G	N9-C4	-6.18	1.33	1.38
25	BB	1838	C	C4-C5	-6.18	1.38	1.43
3	A1	458	U	P-O5'	-6.18	1.53	1.59
3	A1	785	G	C4'-O4'	-6.18	1.37	1.45
25	BB	72	U	C2-N3	6.18	1.42	1.37
25	BB	449	A	N9-C4	-6.18	1.34	1.37
25	BB	846	U	C2-O2	6.18	1.27	1.22
25	BB	979	A	C8-N7	-6.18	1.27	1.31
25	BB	1340	U	N1-C2	6.18	1.44	1.38
25	BB	2165	C	C2-O2	-6.18	1.18	1.24
25	BB	2758	A	C5-C4	-6.18	1.34	1.38
1	AA	41	U	C2-N3	-6.17	1.33	1.37
3	A1	306	A	C3'-C2'	6.17	1.59	1.52
3	A1	476	U	C2-N3	-6.17	1.33	1.37
3	A1	568	G	C2-N2	-6.17	1.28	1.34
3	A1	734	G	C6-N1	6.17	1.43	1.39
3	A1	785	G	O3'-P	-6.17	1.53	1.61
3	A1	1269	A	N1-C2	-6.17	1.28	1.34
25	BB	718	A	N3-C4	6.17	1.38	1.34
25	BB	2298	A	C6-N6	-6.17	1.29	1.33
25	BB	2716	C	C4-N4	-6.17	1.28	1.33
48	BY	158	GLY	CA-C	6.17	1.61	1.51
1	AE	36	A	P-O5'	-6.17	1.53	1.59
24	BA	117	G	C2-N3	-6.17	1.27	1.32
25	BB	363	G	C2'-O2'	6.17	1.49	1.41
25	BB	1167	C	C4-N4	-6.17	1.28	1.33
25	BB	2379	G	C2-N3	-6.17	1.27	1.32
3	A1	38	G	C6-O6	-6.17	1.18	1.24
3	A1	864	A	C4'-C3'	6.17	1.59	1.53
3	A1	1384	C	C5'-C4'	6.17	1.58	1.51
25	BB	440	C	N3-C4	-6.17	1.29	1.33
25	BB	1083	U	P-O5'	6.17	1.66	1.59
25	BB	2193	G	O4'-C1'	6.17	1.49	1.41
25	BB	2288	A	O4'-C1'	6.17	1.49	1.41
3	A1	93	U	C4'-C3'	6.17	1.59	1.53
3	A1	143	A	C4'-O4'	-6.17	1.37	1.45
3	A1	256	U	C5-C6	6.17	1.39	1.34
3	A1	552	U	C4-O4	-6.17	1.18	1.23
25	BB	1864	U	C5-C6	6.17	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	16	A	N9-C8	6.17	1.42	1.37
3	A1	656	G	C6-O6	-6.17	1.18	1.24
3	A1	779	C	C4-C5	-6.17	1.38	1.43
3	A1	1002	G	N1-C2	-6.17	1.32	1.37
25	BB	156	A	C2'-C1'	6.17	1.60	1.53
25	BB	506	G	N7-C5	6.17	1.43	1.39
25	BB	989	G	C5'-C4'	6.17	1.58	1.51
25	BB	1300	G	C4'-C3'	-6.17	1.46	1.53
25	BB	1600	C	C4'-O4'	-6.17	1.37	1.45
25	BB	2389	G	C6-O6	6.17	1.29	1.24
25	BB	2651	C	O5'-C5'	-6.17	1.32	1.42
25	BB	2658	C	C5-C6	6.17	1.39	1.34
1	AA	71	G	C4'-C3'	6.17	1.59	1.53
3	A1	193	C	C4-N4	-6.17	1.28	1.33
3	A1	761	G	N1-C2	-6.17	1.32	1.37
24	BA	14	U	O3'-P	-6.17	1.53	1.61
25	BB	1391	U	C2'-C1'	6.17	1.60	1.53
25	BB	2461	A	N9-C4	6.17	1.41	1.37
25	BB	2647	U	C4'-C3'	6.17	1.59	1.53
25	BB	2722	G	P-O5'	6.17	1.66	1.59
25	BB	2849	U	N1-C6	6.17	1.43	1.38
25	BB	2867	G	N1-C2	-6.17	1.32	1.37
1	AP	2	C	C4-N4	-6.17	1.28	1.33
3	A1	62	U	C2'-O2'	6.17	1.49	1.41
3	A1	68	G	O3'-P	-6.17	1.53	1.61
3	A1	322	C	C4-N4	-6.17	1.28	1.33
3	A1	1131	G	C5-C4	6.17	1.42	1.38
25	BB	57	C	N1-C6	6.17	1.40	1.37
46	BW	39	ARG	CZ-NH1	-6.17	1.25	1.33
3	A1	235	C	C4-N4	-6.16	1.28	1.33
3	A1	245	U	C5'-C4'	6.16	1.58	1.51
3	A1	935	A	C6-N1	-6.16	1.31	1.35
24	BA	19	C	P-O5'	-6.16	1.53	1.59
24	BA	25	U	C5-C6	6.16	1.39	1.34
24	BA	35	C	C4-N4	-6.16	1.28	1.33
25	BB	155	A	C2'-C1'	6.16	1.60	1.53
25	BB	413	C	C4'-C3'	-6.16	1.46	1.53
25	BB	503	A	C2'-C1'	-6.16	1.46	1.53
25	BB	1192	G	N7-C5	6.16	1.43	1.39
25	BB	1630	A	N9-C8	6.16	1.42	1.37
25	BB	2234	G	C2-N2	-6.16	1.28	1.34
3	A1	614	C	P-O5'	6.16	1.66	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	651	C	C4-N4	-6.16	1.28	1.33
3	A1	1079	G	C8-N7	-6.16	1.27	1.30
3	A1	1084	G	C5'-C4'	6.16	1.58	1.51
25	BB	546	U	C4'-O4'	-6.16	1.37	1.45
3	A1	277	C	N3-C4	-6.16	1.29	1.33
3	A1	681	A	C2-N3	-6.16	1.28	1.33
3	A1	802	A	C2'-O2'	6.16	1.49	1.41
25	BB	675	A	C5-C4	-6.16	1.34	1.38
25	BB	793	A	P-O5'	-6.16	1.53	1.59
25	BB	2108	A	C5-C6	6.16	1.46	1.41
25	BB	2306	C	C4-N4	-6.16	1.28	1.33
25	BB	2325	G	N1-C2	-6.16	1.32	1.37
25	BB	2529	G	N1-C2	-6.16	1.32	1.37
3	A1	1064	G	N9-C4	-6.16	1.33	1.38
3	A1	1068	G	C2-N2	-6.16	1.28	1.34
3	A1	1072	G	C2-N2	-6.16	1.28	1.34
25	BB	249	C	C4-N4	-6.16	1.28	1.33
25	BB	854	C	P-O5'	-6.16	1.53	1.59
25	BB	1874	C	C5'-C4'	6.16	1.58	1.51
25	BB	2549	G	N9-C8	-6.16	1.33	1.37
3	A1	552	U	O3'-P	-6.16	1.53	1.61
1	AE	16	U	P-O5'	6.16	1.66	1.59
1	AE	71	G	N1-C2	-6.16	1.32	1.37
3	A1	8	A	C5-C4	-6.16	1.34	1.38
3	A1	195	A	C6-N6	-6.16	1.29	1.33
3	A1	482	A	N3-C4	6.16	1.38	1.34
3	A1	1266	G	C3'-O3'	6.16	1.50	1.42
25	BB	27	G	N3-C4	6.16	1.39	1.35
25	BB	177	G	C5'-C4'	6.16	1.58	1.51
25	BB	881	G	O4'-C1'	6.16	1.49	1.41
25	BB	1078	U	C5-C6	6.16	1.39	1.34
25	BB	2292	U	C5-C6	6.16	1.39	1.34
3	A1	846	G	C2-N2	-6.15	1.28	1.34
25	BB	264	C	N3-C4	-6.15	1.29	1.33
3	A1	353	A	O4'-C1'	6.15	1.49	1.41
25	BB	165	A	C5-C4	-6.15	1.34	1.38
25	BB	374	A	C3'-C2'	6.15	1.59	1.52
25	BB	878	A	C8-N7	-6.15	1.27	1.31
25	BB	1648	U	P-O5'	6.15	1.66	1.59
25	BB	2612	C	C3'-C2'	6.15	1.59	1.52
3	A1	158	G	C5-C4	6.15	1.42	1.38
3	A1	310	G	N7-C5	6.15	1.43	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	900	A	C6-N6	-6.15	1.29	1.33
25	BB	769	U	C5'-C4'	6.15	1.58	1.51
25	BB	1620	G	O3'-P	-6.15	1.53	1.61
25	BB	1625	C	N1-C6	6.15	1.40	1.37
25	BB	2497	A	C6-N1	-6.15	1.31	1.35
2	AM	11	U	N3-C4	6.15	1.44	1.38
25	BB	141	G	C5-C6	6.15	1.48	1.42
25	BB	1553	A	N7-C5	6.15	1.43	1.39
3	A1	705	G	C8-N7	-6.15	1.27	1.30
3	A1	1379	G	N7-C5	6.15	1.43	1.39
3	A1	1395	C	C3'-O3'	6.15	1.50	1.42
3	A1	1492	A	N1-C2	-6.15	1.28	1.34
3	A1	1504	G	N9-C8	6.15	1.42	1.37
25	BB	174	U	O4'-C1'	6.15	1.49	1.41
25	BB	749	A	C5'-C4'	6.15	1.58	1.51
25	BB	1761	C	P-O5'	6.15	1.65	1.59
25	BB	2134	A	C2'-C1'	-6.15	1.46	1.53
50	B1	107	SER	CA-CB	6.15	1.62	1.52
1	AE	12	U	N3-C4	-6.15	1.32	1.38
1	AE	18	G	N9-C8	-6.15	1.33	1.37
24	BA	9	G	N9-C8	-6.15	1.33	1.37
25	BB	1592	C	N3-C4	-6.15	1.29	1.33
25	BB	2182	U	O3'-P	6.15	1.68	1.61
3	A1	687	A	C5-C6	6.14	1.46	1.41
25	BB	838	C	N1-C6	-6.14	1.33	1.37
25	BB	917	A	N7-C5	6.14	1.43	1.39
25	BB	1426	G	O3'-P	-6.14	1.53	1.61
25	BB	1922	G	C2'-O2'	6.14	1.49	1.41
25	BB	2866	U	N1-C2	6.14	1.44	1.38
3	A1	189	A	N3-C4	6.14	1.38	1.34
3	A1	1053	G	C5-C4	-6.14	1.34	1.38
25	BB	2354	C	P-O5'	6.14	1.65	1.59
26	BC	31	TYR	CG-CD2	-6.14	1.31	1.39
3	A1	191	G	C8-N7	-6.14	1.27	1.30
3	A1	1032	G	N9-C8	-6.14	1.33	1.37
3	A1	1174	G	C2-N2	-6.14	1.28	1.34
19	AT	23	GLU	CG-CD	6.14	1.61	1.51
25	BB	372	G	C2-N2	-6.14	1.28	1.34
25	BB	680	C	N3-C4	-6.14	1.29	1.33
3	A1	741	G	C2-N2	-6.14	1.28	1.34
3	A1	845	A	C8-N7	6.14	1.35	1.31
3	A1	1058	G	P-O5'	6.14	1.65	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	307	G	N9-C4	6.14	1.42	1.38
25	BB	919	U	O4'-C1'	6.14	1.49	1.41
25	BB	1511	G	C6-O6	-6.14	1.18	1.24
25	BB	1863	G	C5-C4	-6.14	1.34	1.38
25	BB	1960	A	C6-N1	-6.14	1.31	1.35
25	BB	2157	G	C6-N1	6.14	1.43	1.39
25	BB	2279	G	N9-C8	6.14	1.42	1.37
25	BB	2850	A	C2'-C1'	-6.14	1.46	1.53
25	BB	2670	A	N7-C5	6.14	1.43	1.39
25	BB	2801	G	C8-N7	-6.14	1.27	1.30
3	A1	353	A	N9-C4	6.14	1.41	1.37
3	A1	361	G	N3-C4	-6.14	1.31	1.35
3	A1	394	G	C5-C6	6.14	1.48	1.42
3	A1	1357	A	N3-C4	6.14	1.38	1.34
25	BB	893	C	C3'-C2'	-6.14	1.46	1.52
25	BB	2124	G	N1-C2	-6.14	1.32	1.37
53	B4	68	ARG	CZ-NH2	-6.14	1.25	1.33
25	BB	1098	A	O3'-P	-6.13	1.53	1.61
25	BB	1211	C	C4-C5	-6.13	1.38	1.43
25	BB	1737	G	N7-C5	6.13	1.43	1.39
25	BB	1738	G	N1-C2	-6.13	1.32	1.37
25	BB	1899	A	C5-C4	-6.13	1.34	1.38
25	BB	2487	G	N7-C5	6.13	1.43	1.39
25	BB	2653	U	C4-O4	-6.13	1.18	1.23
25	BB	2858	C	C2'-O2'	6.13	1.49	1.41
25	BB	2872	A	O3'-P	-6.13	1.53	1.61
37	BN	61	TYR	CD1-CE1	6.13	1.48	1.39
3	A1	231	U	C5-C6	6.13	1.39	1.34
25	BB	212	G	N1-C2	-6.13	1.32	1.37
1	AE	17	U	C2-O2	-6.13	1.16	1.22
3	A1	328	C	C3'-C2'	6.13	1.59	1.52
3	A1	335	C	P-O5'	6.13	1.65	1.59
3	A1	554	A	C2'-O2'	6.13	1.49	1.41
3	A1	1067	A	C4'-C3'	6.13	1.59	1.53
25	BB	726	G	C2-N2	-6.13	1.28	1.34
25	BB	1942	C	O3'-P	-6.13	1.53	1.61
25	BB	2032	G	C2-N2	-6.13	1.28	1.34
25	BB	2739	U	C4'-O4'	6.13	1.53	1.45
25	BB	2799	A	C3'-O3'	6.13	1.50	1.42
3	A1	806	C	C4-N4	-6.13	1.28	1.33
25	BB	313	G	N7-C5	6.13	1.43	1.39
25	BB	503	A	N1-C2	-6.13	1.28	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	779	C	N1-C6	6.13	1.40	1.37
24	BA	43	C	P-O5'	6.13	1.65	1.59
25	BB	38	A	N7-C5	6.13	1.43	1.39
25	BB	1216	G	C3'-C2'	6.13	1.59	1.52
25	BB	1438	U	C2-O2	6.13	1.27	1.22
25	BB	2377	A	C5-C6	-6.13	1.35	1.41
3	A1	159	G	N9-C8	6.13	1.42	1.37
3	A1	740	U	C5-C6	6.13	1.39	1.34
3	A1	1125	U	P-O5'	-6.13	1.53	1.59
3	A1	1526	G	C5-C6	6.13	1.48	1.42
25	BB	512	G	C2-N2	-6.13	1.28	1.34
25	BB	609	A	C5-C6	6.13	1.46	1.41
25	BB	1301	A	C6-N1	-6.13	1.31	1.35
25	BB	1459	G	N7-C5	6.13	1.43	1.39
25	BB	1555	G	C6-O6	-6.13	1.18	1.24
25	BB	2426	A	C5-C6	6.13	1.46	1.41
25	BB	2629	U	N3-C4	6.13	1.44	1.38
25	BB	2814	A	C2-N3	-6.13	1.28	1.33
55	B6	130	HIS	CB-CG	6.13	1.61	1.50
3	A1	38	G	C3'-O3'	-6.12	1.33	1.42
3	A1	635	A	C6-N6	-6.12	1.29	1.33
3	A1	928	G	N9-C4	6.12	1.42	1.38
3	A1	991	U	C4'-O4'	-6.12	1.37	1.45
3	A1	1304	G	C8-N7	6.12	1.34	1.30
25	BB	1429	G	N1-C2	-6.12	1.32	1.37
25	BB	1976	U	C2'-O2'	6.12	1.49	1.41
3	A1	35	G	N9-C8	-6.12	1.33	1.37
3	A1	834	U	N1-C2	6.12	1.44	1.38
3	A1	1079	G	N3-C4	6.12	1.39	1.35
3	A1	1400	C	C3'-C2'	6.12	1.59	1.52
25	BB	255	A	C6-N6	-6.12	1.29	1.33
25	BB	926	G	N1-C2	-6.12	1.32	1.37
25	BB	1300	G	C6-N1	-6.12	1.35	1.39
25	BB	1929	G	C8-N7	6.12	1.34	1.30
1	AA	30	G	N1-C2	-6.12	1.32	1.37
3	A1	94	G	P-O5'	-6.12	1.53	1.59
25	BB	383	C	C2-N3	6.12	1.40	1.35
25	BB	1237	A	C4'-O4'	-6.12	1.37	1.45
25	BB	1544	A	N1-C2	-6.12	1.28	1.34
25	BB	2330	G	C6-N1	-6.12	1.35	1.39
25	BB	2753	A	N3-C4	6.12	1.38	1.34
25	BB	2843	G	N3-C4	6.12	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1335	U	C2'-C1'	-6.12	1.46	1.53
25	BB	1084	A	C6-N6	-6.12	1.29	1.33
25	BB	1431	A	O4'-C1'	6.12	1.49	1.41
25	BB	2738	A	C2'-C1'	-6.12	1.46	1.53
3	A1	861	G	N1-C2	-6.12	1.32	1.37
25	BB	1025	G	C2'-C1'	-6.12	1.46	1.53
25	BB	2061	G	C2-N2	-6.12	1.28	1.34
25	BB	2673	G	P-O5'	-6.12	1.53	1.59
25	BB	2812	G	N7-C5	6.12	1.43	1.39
25	BB	629	G	N9-C8	6.12	1.42	1.37
25	BB	943	A	N9-C4	6.12	1.41	1.37
25	BB	2227	A	C6-N6	-6.12	1.29	1.33
25	BB	2394	C	O3'-P	-6.12	1.53	1.61
25	BB	2858	C	C4-C5	-6.12	1.38	1.43
3	A1	19	A	C8-N7	-6.11	1.27	1.31
3	A1	21	G	N1-C2	-6.11	1.32	1.37
3	A1	538	G	N1-C2	-6.11	1.32	1.37
3	A1	903	G	N3-C4	6.11	1.39	1.35
3	A1	1274	A	N7-C5	6.11	1.43	1.39
25	BB	302	C	C5'-C4'	6.11	1.58	1.51
25	BB	387	U	C4-C5	6.11	1.49	1.43
25	BB	489	G	C5'-C4'	6.11	1.58	1.51
25	BB	1076	C	C4-N4	-6.11	1.28	1.33
3	A1	498	A	N9-C8	6.11	1.42	1.37
3	A1	611	C	C4'-O4'	-6.11	1.37	1.45
3	A1	957	U	C3'-C2'	6.11	1.59	1.52
3	A1	1001	C	C3'-C2'	6.11	1.59	1.52
25	BB	1575	C	C3'-C2'	6.11	1.59	1.52
25	BB	1913	A	N3-C4	6.11	1.38	1.34
1	AP	67	A	C4'-C3'	-6.11	1.46	1.53
3	A1	907	A	C2-N3	-6.11	1.28	1.33
25	BB	1517	G	N1-C2	-6.11	1.32	1.37
25	BB	2021	C	O3'-P	-6.11	1.53	1.61
25	BB	2324	U	C2-O2	6.11	1.27	1.22
25	BB	2796	U	P-O5'	6.11	1.65	1.59
1	AA	70	C	C4-C5	-6.11	1.38	1.43
3	A1	225	C	N3-C4	-6.11	1.29	1.33
3	A1	1292	G	P-O5'	6.11	1.65	1.59
25	BB	2	G	C2-N2	-6.11	1.28	1.34
25	BB	564	C	C2-N3	-6.11	1.30	1.35
25	BB	2505	G	N7-C5	6.11	1.43	1.39
3	A1	99	C	C5-C6	6.11	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	296	U	O3'-P	-6.11	1.53	1.61
3	A1	410	G	C5'-C4'	6.11	1.58	1.51
3	A1	921	U	O4'-C1'	-6.11	1.33	1.41
25	BB	40	U	C2'-C1'	6.11	1.60	1.53
25	BB	471	A	O3'-P	-6.11	1.53	1.61
25	BB	544	C	C4'-C3'	6.11	1.59	1.53
25	BB	1438	U	N1-C2	6.11	1.44	1.38
25	BB	1756	G	C2-N2	-6.11	1.28	1.34
3	A1	128	G	C4'-C3'	6.11	1.59	1.53
3	A1	195	A	N7-C5	6.11	1.43	1.39
3	A1	664	G	C2-N3	6.11	1.37	1.32
3	A1	1085	U	C2'-C1'	-6.11	1.46	1.53
3	A1	1431	A	N9-C4	-6.11	1.34	1.37
25	BB	385	C	N3-C4	-6.11	1.29	1.33
25	BB	1118	C	C3'-C2'	6.11	1.59	1.52
25	BB	1910	G	C2-N2	-6.11	1.28	1.34
25	BB	2142	A	N9-C8	6.11	1.42	1.37
25	BB	2277	G	N9-C8	6.11	1.42	1.37
25	BB	2795	C	N1-C6	6.11	1.40	1.37
1	AP	11	C	N3-C4	-6.10	1.29	1.33
3	A1	75	G	C6-N1	-6.10	1.35	1.39
3	A1	442	G	N7-C5	6.10	1.43	1.39
3	A1	994	A	N7-C5	-6.10	1.35	1.39
25	BB	449	A	C2'-O2'	6.10	1.49	1.41
25	BB	1227	G	C5-C4	6.10	1.42	1.38
25	BB	1687	G	C5-C6	6.10	1.48	1.42
1	AA	18	G	C1'-N9	-6.10	1.38	1.46
1	AE	26	G	C5'-C4'	6.10	1.58	1.51
3	A1	482	A	N7-C5	6.10	1.43	1.39
3	A1	1414	U	C5'-C4'	6.10	1.58	1.51
3	A1	1425	U	O5'-C5'	-6.10	1.33	1.42
25	BB	65	U	C5'-C4'	6.10	1.58	1.51
25	BB	221	A	C8-N7	-6.10	1.27	1.31
25	BB	1302	A	C3'-O3'	6.10	1.50	1.42
25	BB	1337	G	C5-C4	6.10	1.42	1.38
3	A1	220	G	N9-C8	-6.10	1.33	1.37
3	A1	1131	G	C5-C6	6.10	1.48	1.42
25	BB	206	U	C4'-C3'	6.10	1.59	1.53
1	AA	2	C	C5-C6	6.10	1.39	1.34
1	AP	33	U	P-O5'	6.10	1.65	1.59
3	A1	596	A	N1-C2	-6.10	1.28	1.34
3	A1	851	G	C2'-O2'	6.10	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1245	C	C3'-C2'	-6.10	1.46	1.52
25	BB	252	G	C2-N2	-6.10	1.28	1.34
25	BB	305	C	C4'-O4'	-6.10	1.37	1.45
25	BB	562	U	N3-C4	6.10	1.44	1.38
25	BB	904	G	C2-N2	-6.10	1.28	1.34
25	BB	1125	G	P-O5'	6.10	1.65	1.59
25	BB	1640	A	N1-C2	-6.10	1.28	1.34
25	BB	2552	U	C3'-C2'	-6.10	1.46	1.52
3	A1	119	A	N9-C8	6.10	1.42	1.37
3	A1	355	C	C4-N4	-6.10	1.28	1.33
3	A1	796	C	O3'-P	-6.10	1.53	1.61
24	BA	28	C	C4'-O4'	-6.10	1.37	1.45
25	BB	84	A	C6-N6	-6.10	1.29	1.33
25	BB	352	A	C6-N1	-6.10	1.31	1.35
25	BB	1394	U	N3-C4	6.10	1.44	1.38
25	BB	1446	C	P-O5'	6.10	1.65	1.59
25	BB	1764	C	N3-C4	-6.10	1.29	1.33
25	BB	2126	A	C5'-C4'	6.10	1.58	1.51
25	BB	2471	A	N3-C4	6.10	1.38	1.34
25	BB	2608	G	C4'-C3'	6.10	1.59	1.53
25	BB	2651	C	C4-N4	-6.10	1.28	1.33
3	A1	789	U	N1-C2	6.10	1.44	1.38
3	A1	1188	A	C2-N3	-6.10	1.28	1.33
25	BB	1196	C	N3-C4	-6.10	1.29	1.33
25	BB	1650	A	O3'-P	-6.10	1.53	1.61
3	A1	409	U	C2-N3	6.09	1.42	1.37
3	A1	1000	A	O5'-C5'	-6.09	1.33	1.42
24	BA	13	G	C5-C4	-6.09	1.34	1.38
25	BB	469	G	N1-C2	-6.09	1.32	1.37
25	BB	1368	G	N9-C4	6.09	1.42	1.38
25	BB	2130	U	O3'-P	-6.09	1.53	1.61
25	BB	2284	A	C5-C6	6.09	1.46	1.41
25	BB	2337	G	C5'-C4'	6.09	1.58	1.51
25	BB	2525	G	N3-C4	6.09	1.39	1.35
3	A1	88	U	C4'-O4'	-6.09	1.37	1.45
3	A1	1362	A	C3'-C2'	6.09	1.59	1.52
25	BB	366	C	C4-N4	-6.09	1.28	1.33
25	BB	921	C	C2-O2	-6.09	1.19	1.24
25	BB	1285	A	N9-C8	-6.09	1.32	1.37
25	BB	1983	G	C6-N1	-6.09	1.35	1.39
25	BB	65	U	N1-C6	6.09	1.43	1.38
25	BB	954	G	N9-C4	-6.09	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2278	A	C4'-C3'	-6.09	1.46	1.53
25	BB	2317	A	N9-C4	-6.09	1.34	1.37
25	BB	2374	C	O3'-P	-6.09	1.53	1.61
25	BB	2700	A	N7-C5	6.09	1.43	1.39
25	BB	2825	G	C2-N2	-6.09	1.28	1.34
51	B2	21	TYR	CD1-CE1	6.09	1.48	1.39
3	A1	74	A	C5-C4	-6.09	1.34	1.38
3	A1	186	C	C4-C5	-6.09	1.38	1.43
3	A1	526	C	C4-C5	-6.09	1.38	1.43
3	A1	721	G	C2-N2	-6.09	1.28	1.34
3	A1	1380	U	C3'-O3'	6.09	1.50	1.42
25	BB	86	G	C2-N2	-6.09	1.28	1.34
25	BB	568	U	O4'-C1'	6.09	1.49	1.41
25	BB	1046	A	N7-C5	6.09	1.43	1.39
25	BB	2386	A	P-O5'	6.09	1.65	1.59
25	BB	2470	G	O3'-P	-6.09	1.53	1.61
25	BB	2644	G	C5-C4	6.09	1.42	1.38
1	AE	21	A	C5-C6	6.09	1.46	1.41
3	A1	917	G	N9-C4	6.09	1.42	1.38
25	BB	763	G	O3'-P	-6.09	1.53	1.61
25	BB	864	G	N1-C2	-6.09	1.32	1.37
25	BB	1521	G	N3-C4	6.09	1.39	1.35
25	BB	1678	A	C8-N7	-6.09	1.27	1.31
3	A1	174	A	C5-C4	-6.09	1.34	1.38
3	A1	369	G	N1-C2	-6.09	1.32	1.37
3	A1	372	C	C3'-C2'	-6.09	1.46	1.52
3	A1	511	C	C2'-O2'	6.09	1.49	1.41
3	A1	516	U	N3-C4	-6.09	1.32	1.38
25	BB	2096	C	C4-N4	-6.09	1.28	1.33
25	BB	2621	G	C4'-O4'	-6.09	1.37	1.45
25	BB	1250	G	N9-C4	-6.08	1.33	1.38
25	BB	1492	G	N3-C4	6.08	1.39	1.35
3	A1	147	G	C5-C6	6.08	1.48	1.42
3	A1	212	G	C2'-O2'	6.08	1.49	1.41
3	A1	628	G	C8-N7	-6.08	1.27	1.30
22	AW	129	ARG	CZ-NH2	-6.08	1.25	1.33
25	BB	1097	U	N1-C2	6.08	1.44	1.38
25	BB	1995	U	O3'-P	-6.08	1.53	1.61
25	BB	2289	G	C4'-O4'	-6.08	1.37	1.45
3	A1	266	G	C2-N2	-6.08	1.28	1.34
3	A1	410	G	C6-N1	-6.08	1.35	1.39
3	A1	544	G	N7-C5	6.08	1.42	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	AK	42	ARG	CZ-NH1	-6.08	1.25	1.33
25	BB	1049	C	N1-C6	6.08	1.40	1.37
25	BB	1082	U	C4-C5	-6.08	1.38	1.43
25	BB	1261	C	N3-C4	-6.08	1.29	1.33
25	BB	2787	C	P-O5'	-6.08	1.53	1.59
31	BH	33	ARG	CZ-NH1	-6.08	1.25	1.33
1	AE	47	U	C2'-C1'	-6.08	1.46	1.53
3	A1	843	U	C4-O4	-6.08	1.18	1.23
3	A1	1240	U	O4'-C1'	6.08	1.49	1.41
19	AT	4	TYR	CE2-CZ	6.08	1.46	1.38
25	BB	207	A	N7-C5	6.08	1.42	1.39
25	BB	767	U	N3-C4	-6.08	1.32	1.38
25	BB	936	A	P-O5'	6.08	1.65	1.59
3	A1	490	C	C4'-C3'	6.08	1.59	1.53
25	BB	468	G	O3'-P	-6.08	1.53	1.61
25	BB	640	C	C2-O2	-6.08	1.19	1.24
25	BB	984	A	C2'-C1'	-6.08	1.46	1.53
25	BB	1203	U	C5-C6	6.08	1.39	1.34
25	BB	1692	U	O5'-C5'	-6.08	1.33	1.42
25	BB	2310	C	N3-C4	-6.08	1.29	1.33
25	BB	2448	A	C4'-O4'	-6.08	1.37	1.45
25	BB	2551	C	C2'-C1'	-6.08	1.46	1.53
3	A1	606	G	O4'-C1'	6.08	1.49	1.41
3	A1	747	A	N3-C4	6.08	1.38	1.34
3	A1	1113	C	P-O5'	-6.08	1.53	1.59
25	BB	58	G	C2'-O2'	-6.08	1.33	1.41
25	BB	2188	U	N1-C2	6.08	1.44	1.38
25	BB	2814	A	N3-C4	6.08	1.38	1.34
3	A1	674	G	C2-N2	-6.08	1.28	1.34
3	A1	1010	U	N1-C2	6.08	1.44	1.38
3	A1	1519	A	N1-C2	-6.08	1.28	1.34
14	AN	39	GLU	CD-OE2	6.08	1.32	1.25
17	AR	2	ARG	CZ-NH2	-6.08	1.25	1.33
25	BB	51	G	C6-O6	-6.08	1.18	1.24
25	BB	200	U	N3-C4	-6.08	1.32	1.38
25	BB	377	G	C2'-O2'	6.08	1.49	1.41
25	BB	2651	C	N1-C6	-6.08	1.33	1.37
25	BB	2740	A	C5-C4	-6.08	1.34	1.38
3	A1	274	A	O3'-P	6.07	1.68	1.61
3	A1	404	G	P-O5'	6.07	1.65	1.59
3	A1	1098	C	N3-C4	-6.07	1.29	1.33
3	A1	1419	G	C2-N2	-6.07	1.28	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	92	U	N1-C2	6.07	1.44	1.38
25	BB	684	G	N9-C8	-6.07	1.33	1.37
25	BB	740	C	N1-C6	6.07	1.40	1.37
25	BB	1035	U	C4-C5	6.07	1.49	1.43
25	BB	1151	A	C5-C4	-6.07	1.34	1.38
25	BB	1904	G	C2'-O2'	6.07	1.49	1.41
25	BB	1937	A	N9-C4	-6.07	1.34	1.37
25	BB	2247	A	C3'-C2'	6.07	1.59	1.52
25	BB	2253	G	C5-C6	6.07	1.48	1.42
25	BB	2272	U	C5'-C4'	6.07	1.58	1.51
25	BB	2683	C	C4-N4	-6.07	1.28	1.33
3	A1	968	A	C6-N1	-6.07	1.31	1.35
25	BB	417	C	O3'-P	-6.07	1.53	1.61
3	A1	399	G	C8-N7	6.07	1.34	1.30
3	A1	504	C	C2'-C1'	6.07	1.60	1.53
25	BB	362	A	C2'-C1'	-6.07	1.46	1.53
25	BB	1519	G	C5-C6	6.07	1.48	1.42
25	BB	1892	C	C4-C5	-6.07	1.38	1.43
25	BB	2225	A	C4'-C3'	6.07	1.59	1.53
25	BB	2456	C	C2-N3	-6.07	1.30	1.35
35	BL	8	ARG	CZ-NH2	-6.07	1.25	1.33
3	A1	644	U	P-O5'	-6.07	1.53	1.59
3	A1	974	A	O3'-P	6.07	1.68	1.61
24	BA	30	C	O4'-C1'	6.07	1.49	1.41
25	BB	73	A	C6-N1	-6.07	1.31	1.35
25	BB	348	A	N7-C5	6.07	1.42	1.39
25	BB	696	G	N7-C5	6.07	1.42	1.39
25	BB	1078	U	C4-C5	6.07	1.49	1.43
25	BB	1283	G	N9-C4	6.07	1.42	1.38
25	BB	1952	A	N9-C8	6.07	1.42	1.37
25	BB	2069	G	P-O5'	-6.07	1.53	1.59
25	BB	2224	G	N3-C4	6.07	1.39	1.35
25	BB	2308	G	C2-N3	6.07	1.37	1.32
25	BB	2715	C	N1-C6	6.07	1.40	1.37
3	A1	413	G	C6-N1	6.07	1.43	1.39
3	A1	787	A	C5-C4	-6.07	1.34	1.38
25	BB	229	C	C3'-C2'	6.07	1.59	1.52
25	BB	1205	A	C2-N3	-6.07	1.28	1.33
25	BB	2400	G	C3'-C2'	6.07	1.59	1.52
3	A1	398	U	C5-C6	6.07	1.39	1.34
3	A1	662	U	C5'-C4'	6.07	1.58	1.51
3	A1	793	U	N1-C2	6.07	1.44	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	804	A	N3-C4	6.07	1.38	1.34
25	BB	1063	G	C4'-O4'	-6.07	1.37	1.45
25	BB	1177	G	C2'-C1'	6.07	1.60	1.53
25	BB	1707	G	O3'-P	-6.07	1.53	1.61
25	BB	2802	G	C2-N2	-6.07	1.28	1.34
3	A1	1511	G	C5-C4	-6.06	1.34	1.38
25	BB	898	C	C3'-C2'	6.06	1.59	1.52
25	BB	1527	G	C5'-C4'	6.06	1.58	1.51
25	BB	2098	U	P-O5'	-6.06	1.53	1.59
25	BB	2485	G	N3-C4	-6.06	1.31	1.35
48	BY	147	GLY	CA-C	6.06	1.61	1.51
1	AA	62	A	N3-C4	6.06	1.38	1.34
3	A1	288	A	C5-C4	-6.06	1.34	1.38
3	A1	705	G	N9-C4	6.06	1.42	1.38
3	A1	760	G	C2-N2	-6.06	1.28	1.34
3	A1	982	U	O3'-P	-6.06	1.53	1.61
3	A1	1005	A	C4'-O4'	-6.06	1.37	1.45
25	BB	1408	G	C2-N3	6.06	1.37	1.32
25	BB	1992	G	N3-C4	6.06	1.39	1.35
25	BB	2817	U	C4-O4	-6.06	1.18	1.23
25	BB	2845	U	C5-C6	6.06	1.39	1.34
29	BF	114	ARG	NE-CZ	-6.06	1.25	1.33
3	A1	320	A	C8-N7	-6.06	1.27	1.31
3	A1	819	A	N9-C4	6.06	1.41	1.37
25	BB	346	A	C6-N1	-6.06	1.31	1.35
25	BB	1125	G	N1-C2	-6.06	1.32	1.37
25	BB	1635	A	O3'-P	-6.06	1.53	1.61
25	BB	1689	A	C4'-C3'	6.06	1.59	1.53
25	BB	1981	A	N9-C4	6.06	1.41	1.37
25	BB	2813	A	C2'-O2'	6.06	1.49	1.41
3	A1	626	G	C2-N2	-6.06	1.28	1.34
24	BA	20	G	N9-C8	6.06	1.42	1.37
25	BB	287	G	N9-C8	-6.06	1.33	1.37
25	BB	383	C	C4-N4	-6.06	1.28	1.33
25	BB	835	C	N3-C4	-6.06	1.29	1.33
25	BB	1139	G	N9-C8	-6.06	1.33	1.37
25	BB	1388	G	C2-N3	6.06	1.37	1.32
25	BB	1489	C	N1-C6	6.06	1.40	1.37
25	BB	1785	A	C3'-C2'	6.06	1.59	1.52
25	BB	2357	G	C2-N2	-6.06	1.28	1.34
25	BB	2769	U	N1-C2	6.06	1.44	1.38
25	BB	2854	G	C4'-C3'	6.06	1.59	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AP	15	G	C2-N3	-6.06	1.27	1.32
3	A1	281	G	C8-N7	-6.06	1.27	1.30
3	A1	1168	U	C5-C6	6.06	1.39	1.34
3	A1	1379	G	C8-N7	6.06	1.34	1.30
25	BB	712	G	N9-C8	-6.06	1.33	1.37
25	BB	1114	C	C5-C6	6.06	1.39	1.34
25	BB	1528	A	C5-C4	6.06	1.43	1.38
25	BB	2100	G	C5'-C4'	6.06	1.58	1.51
25	BB	1035	U	O4'-C1'	6.06	1.49	1.41
25	BB	2252	G	N7-C5	6.06	1.42	1.39
3	A1	416	G	C2-N3	6.05	1.37	1.32
3	A1	1158	C	C4-N4	-6.05	1.28	1.33
25	BB	739	A	N7-C5	6.05	1.42	1.39
25	BB	2159	G	C2-N2	-6.05	1.28	1.34
25	BB	2471	A	C5-C6	6.05	1.46	1.41
3	A1	1077	G	C6-O6	-6.05	1.18	1.24
25	BB	293	U	C5-C6	6.05	1.39	1.34
25	BB	611	C	C3'-C2'	6.05	1.59	1.52
25	BB	799	G	C5'-C4'	6.05	1.58	1.51
25	BB	1292	G	N3-C4	6.05	1.39	1.35
25	BB	1823	G	C8-N7	6.05	1.34	1.30
3	A1	331	G	C5-C6	6.05	1.48	1.42
3	A1	340	U	N1-C2	6.05	1.44	1.38
3	A1	744	C	C4-N4	-6.05	1.28	1.33
3	A1	1419	G	C8-N7	-6.05	1.27	1.30
25	BB	668	A	N7-C5	6.05	1.42	1.39
25	BB	1384	A	C5-C6	6.05	1.46	1.41
25	BB	1863	G	C6-N1	-6.05	1.35	1.39
25	BB	1927	A	N9-C4	6.05	1.41	1.37
25	BB	2345	G	N1-C2	-6.05	1.32	1.37
25	BB	2702	G	C5-C6	6.05	1.48	1.42
25	BB	2869	G	N9-C4	6.05	1.42	1.38
45	BV	33	ARG	CZ-NH1	-6.05	1.25	1.33
3	A1	280	C	C2-N3	-6.05	1.30	1.35
3	A1	1025	U	N1-C2	6.05	1.44	1.38
3	A1	1378	C	C5'-C4'	6.05	1.58	1.51
25	BB	452	G	C2-N3	6.05	1.37	1.32
25	BB	501	A	C5-C6	6.05	1.46	1.41
25	BB	1173	U	C2'-C1'	6.05	1.60	1.53
25	BB	1860	G	C2-N2	-6.05	1.28	1.34
25	BB	2263	C	C4-N4	-6.05	1.28	1.33
25	BB	2858	C	C4'-C3'	-6.05	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
48	BY	174	SER	CB-OG	-6.05	1.34	1.42
3	A1	317	U	C2-N3	-6.05	1.33	1.37
3	A1	1152	A	C5-C4	-6.05	1.34	1.38
25	BB	750	A	C8-N7	-6.05	1.27	1.31
25	BB	1165	A	N7-C5	6.05	1.42	1.39
25	BB	1213	A	C4'-O4'	-6.05	1.37	1.45
1	AP	38	A	O3'-P	-6.05	1.53	1.61
3	A1	174	A	C3'-C2'	6.05	1.59	1.52
3	A1	506	G	N1-C2	-6.05	1.32	1.37
3	A1	1480	A	P-O5'	-6.05	1.53	1.59
25	BB	234	U	C4-C5	6.05	1.49	1.43
25	BB	1982	U	C4-O4	6.05	1.28	1.23
25	BB	2127	G	C5-C6	6.05	1.48	1.42
25	BB	2570	G	C6-O6	-6.05	1.18	1.24
1	AE	48	C	C4'-O4'	-6.04	1.37	1.45
3	A1	111	G	C2'-O2'	6.04	1.49	1.41
3	A1	141	G	C5-C4	-6.04	1.34	1.38
3	A1	1021	A	N3-C4	6.04	1.38	1.34
25	BB	427	U	P-O5'	-6.04	1.53	1.59
25	BB	648	G	C8-N7	6.04	1.34	1.30
25	BB	792	A	C8-N7	-6.04	1.27	1.31
25	BB	1930	G	N7-C5	6.04	1.42	1.39
3	A1	726	C	N3-C4	-6.04	1.29	1.33
24	BA	109	A	N9-C8	-6.04	1.32	1.37
25	BB	15	G	O4'-C1'	6.04	1.49	1.41
25	BB	801	G	C2-N2	-6.04	1.28	1.34
25	BB	1741	C	C3'-C2'	6.04	1.59	1.52
3	A1	800	G	C5-C6	6.04	1.48	1.42
3	A1	1096	C	C4'-C3'	6.04	1.59	1.53
3	A1	1227	A	C3'-C2'	6.04	1.59	1.52
3	A1	1408	A	C6-N1	-6.04	1.31	1.35
24	BA	45	A	C5-C4	-6.04	1.34	1.38
25	BB	247	G	C2-N3	6.04	1.37	1.32
25	BB	707	G	C6-N1	-6.04	1.35	1.39
25	BB	849	A	C6-N1	-6.04	1.31	1.35
25	BB	2337	G	C2-N3	-6.04	1.27	1.32
25	BB	2710	C	C4-C5	-6.04	1.38	1.43
3	A1	1138	G	C4'-O4'	6.04	1.53	1.45
25	BB	1406	U	P-O5'	6.04	1.65	1.59
25	BB	1826	G	C4'-C3'	6.04	1.59	1.53
25	BB	2276	G	C2'-O2'	-6.04	1.33	1.41
3	A1	202	G	C3'-C2'	6.04	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	536	C	O3'-P	6.04	1.68	1.61
3	A1	1435	G	P-O5'	-6.04	1.53	1.59
3	A1	1520	C	O3'-P	-6.04	1.53	1.61
25	BB	1177	G	C2-N2	-6.04	1.28	1.34
25	BB	1309	G	P-O5'	6.04	1.65	1.59
25	BB	2272	U	C2-N3	6.04	1.42	1.37
25	BB	2536	G	C3'-C2'	6.04	1.59	1.52
25	BB	2678	C	C4'-O4'	-6.04	1.37	1.45
25	BB	85	G	C2-N2	-6.04	1.28	1.34
25	BB	2253	G	C6-N1	-6.04	1.35	1.39
25	BB	2850	A	C2-N3	-6.04	1.28	1.33
1	AE	60	C	C4-N4	-6.04	1.28	1.33
3	A1	66	A	C6-N1	-6.04	1.31	1.35
3	A1	592	G	N3-C4	6.04	1.39	1.35
25	BB	319	G	N9-C8	-6.04	1.33	1.37
25	BB	405	U	N1-C2	6.04	1.44	1.38
25	BB	494	G	C5-C6	6.04	1.48	1.42
25	BB	753	A	C5-C4	-6.04	1.34	1.38
25	BB	978	G	C8-N7	6.04	1.34	1.30
25	BB	1105	U	C4'-C3'	-6.04	1.46	1.53
25	BB	1547	C	C4'-C3'	-6.04	1.46	1.53
25	BB	2007	U	C4'-C3'	6.04	1.59	1.53
25	BB	2449	U	C2-N3	-6.04	1.33	1.37
3	A1	274	A	C5'-C4'	6.03	1.58	1.51
3	A1	654	G	N3-C4	-6.03	1.31	1.35
18	AS	144	GLU	CD-OE2	-6.03	1.19	1.25
25	BB	160	A	C6-N6	-6.03	1.29	1.33
25	BB	435	C	C2-N3	-6.03	1.30	1.35
25	BB	732	C	C4-C5	-6.03	1.38	1.43
25	BB	901	C	C3'-C2'	6.03	1.59	1.52
25	BB	1046	A	N3-C4	6.03	1.38	1.34
25	BB	1094	U	C4-C5	6.03	1.49	1.43
25	BB	2020	A	O3'-P	-6.03	1.53	1.61
25	BB	2111	U	N1-C2	6.03	1.44	1.38
25	BB	2122	U	P-O5'	-6.03	1.53	1.59
25	BB	2252	G	N3-C4	6.03	1.39	1.35
25	BB	2604	U	C4'-C3'	6.03	1.59	1.53
26	BC	26	PHE	CE1-CZ	6.03	1.48	1.37
3	A1	351	G	C2-N3	6.03	1.37	1.32
24	BA	56	G	C5-C4	6.03	1.42	1.38
25	BB	1055	G	N1-C2	-6.03	1.32	1.37
25	BB	1863	G	C3'-C2'	6.03	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1252	A	N7-C5	6.03	1.42	1.39
25	BB	29	U	C5-C6	6.03	1.39	1.34
25	BB	120	U	C5-C6	6.03	1.39	1.34
25	BB	458	G	C2'-O2'	-6.03	1.33	1.41
25	BB	900	A	O3'-P	-6.03	1.53	1.61
25	BB	1363	C	C4-N4	-6.03	1.28	1.33
25	BB	1600	C	O5'-C5'	-6.03	1.33	1.42
25	BB	1696	G	N1-C2	-6.03	1.32	1.37
25	BB	1701	A	C6-N1	-6.03	1.31	1.35
3	A1	681	A	C6-N6	-6.03	1.29	1.33
24	BA	47	C	C4-N4	-6.03	1.28	1.33
25	BB	2852	G	N1-C2	-6.03	1.32	1.37
3	A1	184	G	N1-C2	-6.03	1.32	1.37
3	A1	391	G	C2-N2	-6.03	1.28	1.34
3	A1	620	C	P-O5'	6.03	1.65	1.59
3	A1	909	A	N1-C2	-6.03	1.28	1.34
25	BB	122	G	C5-C4	-6.03	1.34	1.38
25	BB	616	A	N9-C8	-6.03	1.32	1.37
25	BB	723	C	C3'-O3'	6.03	1.50	1.42
25	BB	882	G	P-O5'	-6.03	1.53	1.59
25	BB	1019	U	N3-C4	-6.03	1.33	1.38
25	BB	1735	A	P-O5'	-6.03	1.53	1.59
25	BB	2127	G	C2-N2	-6.03	1.28	1.34
25	BB	2155	U	N1-C6	-6.03	1.32	1.38
3	A1	954	G	N1-C2	-6.03	1.32	1.37
3	A1	1010	U	C2-O2	6.03	1.27	1.22
15	AO	168	ARG	CZ-NH1	-6.03	1.25	1.33
25	BB	1159	U	C3'-C2'	6.03	1.59	1.52
25	BB	2352	A	C5'-C4'	6.03	1.58	1.51
45	BV	21	ARG	CZ-NH2	-6.03	1.25	1.33
50	B1	49	ARG	CZ-NH2	-6.03	1.25	1.33
24	BA	28	C	C5'-C4'	6.02	1.58	1.51
25	BB	1174	U	C5-C6	6.02	1.39	1.34
25	BB	2889	C	N1-C6	6.02	1.40	1.37
3	A1	766	A	N3-C4	6.02	1.38	1.34
3	A1	1379	G	N3-C4	6.02	1.39	1.35
25	BB	475	C	C5-C6	6.02	1.39	1.34
25	BB	867	C	C2'-C1'	6.02	1.59	1.53
25	BB	1177	G	N9-C4	6.02	1.42	1.38
25	BB	2463	C	N3-C4	-6.02	1.29	1.33
25	BB	2758	A	C4'-C3'	6.02	1.59	1.53
3	A1	361	G	N7-C5	6.02	1.42	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	13	A	C5-C4	-6.02	1.34	1.38
25	BB	1390	U	C4'-O4'	-6.02	1.37	1.45
25	BB	1473	G	C2-N2	-6.02	1.28	1.34
25	BB	2509	G	O3'-P	-6.02	1.53	1.61
3	A1	577	G	N1-C2	-6.02	1.32	1.37
3	A1	771	G	C5-C4	-6.02	1.34	1.38
3	A1	1483	A	C6-N1	-6.02	1.31	1.35
25	BB	66	C	C3'-C2'	6.02	1.59	1.52
25	BB	1521	G	C5-C6	6.02	1.48	1.42
25	BB	1693	U	C5-C6	6.02	1.39	1.34
25	BB	2020	A	N3-C4	6.02	1.38	1.34
3	A1	143	A	N7-C5	6.02	1.42	1.39
3	A1	937	A	C4'-C3'	6.02	1.59	1.53
3	A1	1125	U	C4'-C3'	-6.02	1.46	1.53
3	A1	1185	G	N9-C4	6.02	1.42	1.38
25	BB	6	A	N1-C2	-6.02	1.28	1.34
25	BB	1342	A	N9-C4	6.02	1.41	1.37
25	BB	1703	G	P-O5'	6.02	1.65	1.59
25	BB	2198	A	N7-C5	6.02	1.42	1.39
25	BB	2700	A	C6-N6	-6.02	1.29	1.33
3	A1	119	A	C4'-C3'	6.02	1.59	1.53
3	A1	1262	C	P-O5'	6.02	1.65	1.59
3	A1	575	G	C2-N2	-6.01	1.28	1.34
3	A1	695	A	C6-N6	-6.01	1.29	1.33
3	A1	768	A	O4'-C1'	6.01	1.49	1.41
25	BB	52	A	C8-N7	-6.01	1.27	1.31
25	BB	1121	C	C4-N4	-6.01	1.28	1.33
25	BB	1512	C	C5-C6	6.01	1.39	1.34
25	BB	1529	G	C8-N7	6.01	1.34	1.30
25	BB	2703	C	O3'-P	-6.01	1.53	1.61
25	BB	2710	C	C4-N4	-6.01	1.28	1.33
3	A1	212	G	C2-N2	-6.01	1.28	1.34
3	A1	397	A	P-O5'	-6.01	1.53	1.59
24	BA	84	G	C2-N2	-6.01	1.28	1.34
25	BB	1237	A	N7-C5	6.01	1.42	1.39
25	BB	1998	A	N3-C4	6.01	1.38	1.34
25	BB	2190	G	C2-N2	-6.01	1.28	1.34
25	BB	2223	G	C5-C4	6.01	1.42	1.38
25	BB	2666	C	C2'-C1'	6.01	1.59	1.53
3	A1	566	G	P-O5'	6.01	1.65	1.59
3	A1	646	G	N9-C8	-6.01	1.33	1.37
3	A1	977	A	C6-N6	-6.01	1.29	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	526	A	C5-C4	-6.01	1.34	1.38
25	BB	833	A	C3'-C2'	6.01	1.59	1.52
25	BB	849	A	N7-C5	6.01	1.42	1.39
25	BB	913	U	C5-C6	6.01	1.39	1.34
25	BB	1179	G	C3'-C2'	6.01	1.59	1.52
25	BB	2099	U	N1-C6	6.01	1.43	1.38
25	BB	2455	G	C3'-O3'	6.01	1.50	1.42
25	BB	2663	G	O3'-P	-6.01	1.53	1.61
3	A1	100	G	N1-C2	-6.01	1.32	1.37
3	A1	577	G	N7-C5	-6.01	1.35	1.39
3	A1	758	C	C5-C6	6.01	1.39	1.34
25	BB	308	G	C5-C4	6.01	1.42	1.38
25	BB	932	U	P-O5'	-6.01	1.53	1.59
25	BB	1761	C	N1-C6	6.01	1.40	1.37
25	BB	1797	G	C5-C6	6.01	1.48	1.42
1	AE	74	C	N1-C2	6.01	1.46	1.40
25	BB	2056	G	N1-C2	-6.01	1.32	1.37
25	BB	2156	G	C8-N7	6.01	1.34	1.30
30	BG	39	PRO	N-CD	-6.01	1.39	1.47
3	A1	1009	U	C4'-O4'	-6.01	1.37	1.45
25	BB	676	A	C6-N6	-6.01	1.29	1.33
25	BB	1432	G	N1-C2	-6.01	1.32	1.37
25	BB	1499	C	P-O5'	6.01	1.65	1.59
25	BB	1749	A	N7-C5	6.01	1.42	1.39
25	BB	2628	C	P-O5'	6.01	1.65	1.59
1	AE	29	A	N1-C2	-6.00	1.28	1.34
3	A1	964	A	C2'-C1'	6.00	1.59	1.53
3	A1	1340	A	C6-N1	-6.00	1.31	1.35
25	BB	87	U	P-O5'	6.00	1.65	1.59
25	BB	2372	U	N1-C2	6.00	1.44	1.38
1	AA	21	A	N3-C4	-6.00	1.31	1.34
3	A1	137	U	C4-O4	-6.00	1.18	1.23
3	A1	584	G	N1-C2	-6.00	1.32	1.37
3	A1	713	G	C2-N2	-6.00	1.28	1.34
3	A1	821	G	C5'-C4'	6.00	1.58	1.51
3	A1	935	A	C5-C4	-6.00	1.34	1.38
3	A1	940	C	C2-O2	-6.00	1.19	1.24
3	A1	1148	U	P-O5'	6.00	1.65	1.59
24	BA	91	C	C4'-C3'	-6.00	1.46	1.52
25	BB	1709	U	C3'-C2'	6.00	1.59	1.52
25	BB	1899	A	C2-N3	6.00	1.39	1.33
25	BB	1972	G	C2-N2	-6.00	1.28	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2228	G	N7-C5	6.00	1.42	1.39
25	BB	2282	G	C2-N2	-6.00	1.28	1.34
25	BB	2364	C	N1-C6	-6.00	1.33	1.37
25	BB	2850	A	C5-C4	-6.00	1.34	1.38
25	BB	2865	U	C4-O4	-6.00	1.18	1.23
25	BB	2896	C	N1-C6	6.00	1.40	1.37
1	AA	72	C	C5-C6	6.00	1.39	1.34
3	A1	58	C	P-O5'	-6.00	1.53	1.59
3	A1	173	U	C5-C6	6.00	1.39	1.34
3	A1	892	A	O4'-C1'	6.00	1.49	1.41
3	A1	905	U	O3'-P	-6.00	1.53	1.61
3	A1	965	U	P-O5'	6.00	1.65	1.59
3	A1	1055	A	C6-N1	-6.00	1.31	1.35
3	A1	1353	G	N1-C2	-6.00	1.32	1.37
25	BB	491	G	O4'-C1'	6.00	1.49	1.41
25	BB	1845	G	N1-C2	-6.00	1.32	1.37
25	BB	2317	A	C8-N7	-6.00	1.27	1.31
25	BB	2565	A	C5-C4	-6.00	1.34	1.38
25	BB	2571	U	C4-O4	-6.00	1.18	1.23
25	BB	2777	G	C5'-C4'	6.00	1.58	1.51
25	BB	2782	G	N3-C4	6.00	1.39	1.35
25	BB	2886	A	N1-C2	-6.00	1.28	1.34
31	BH	46	GLU	CG-CD	6.00	1.60	1.51
37	BN	213	ARG	CZ-NH1	-6.00	1.25	1.33
3	A1	946	A	C6-N1	-6.00	1.31	1.35
3	A1	1050	G	P-O5'	-6.00	1.53	1.59
25	BB	23	G	O4'-C1'	6.00	1.49	1.41
25	BB	842	U	C5'-C4'	6.00	1.58	1.51
25	BB	1102	C	N1-C6	6.00	1.40	1.37
1	AP	21	A	C2-N3	-6.00	1.28	1.33
3	A1	618	C	C2-O2	-6.00	1.19	1.24
3	A1	1521	C	N1-C2	6.00	1.46	1.40
25	BB	825	A	C3'-C2'	6.00	1.59	1.52
25	BB	844	A	C5-C4	-6.00	1.34	1.38
25	BB	854	C	C2'-C1'	-6.00	1.46	1.53
25	BB	937	C	N3-C4	-6.00	1.29	1.33
25	BB	1360	G	C2-N2	-6.00	1.28	1.34
25	BB	1628	G	C2-N3	-6.00	1.27	1.32
30	BG	43	GLU	CG-CD	6.00	1.60	1.51
1	AA	61	C	N1-C6	-6.00	1.33	1.37
3	A1	607	A	C6-N1	-6.00	1.31	1.35
3	A1	640	A	C5-C4	-6.00	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	984	C	C2-N3	-6.00	1.30	1.35
3	A1	1457	G	C5-C6	6.00	1.48	1.42
25	BB	391	A	O4'-C1'	6.00	1.49	1.41
25	BB	822	G	C6-N1	-6.00	1.35	1.39
25	BB	1055	G	C2'-C1'	-6.00	1.46	1.53
25	BB	1579	A	C8-N7	-6.00	1.27	1.31
25	BB	1754	A	C8-N7	-6.00	1.27	1.31
25	BB	2186	G	C4'-O4'	-6.00	1.37	1.45
25	BB	2241	A	C4'-O4'	-6.00	1.37	1.45
25	BB	2371	G	C4'-C3'	-6.00	1.46	1.52
25	BB	2871	U	C3'-C2'	6.00	1.59	1.52
3	A1	22	G	N9-C8	-6.00	1.33	1.37
3	A1	354	G	C2-N3	6.00	1.37	1.32
3	A1	615	G	C2-N2	-6.00	1.28	1.34
25	BB	1844	C	C2-N3	-6.00	1.30	1.35
25	BB	2711	A	C6-N1	-6.00	1.31	1.35
3	A1	256	U	C3'-C2'	-5.99	1.46	1.52
3	A1	778	G	N9-C4	-5.99	1.33	1.38
25	BB	879	G	C4'-O4'	-5.99	1.37	1.45
25	BB	1344	U	C5'-C4'	5.99	1.58	1.51
25	BB	2105	U	C2'-C1'	5.99	1.59	1.53
25	BB	2339	C	O3'-P	-5.99	1.53	1.61
3	A1	378	G	N1-C2	-5.99	1.32	1.37
3	A1	652	U	P-O5'	-5.99	1.53	1.59
3	A1	976	G	P-O5'	5.99	1.65	1.59
3	A1	1461	G	C4'-C3'	5.99	1.59	1.53
25	BB	126	A	N1-C2	-5.99	1.28	1.34
25	BB	1410	G	N3-C4	5.99	1.39	1.35
25	BB	2063	C	N1-C6	-5.99	1.33	1.37
25	BB	2316	G	C2-N2	-5.99	1.28	1.34
1	AA	36	A	N1-C2	-5.99	1.28	1.34
3	A1	505	G	C2-N3	5.99	1.37	1.32
3	A1	510	A	C5-C6	5.99	1.46	1.41
3	A1	591	U	C5'-C4'	5.99	1.58	1.51
3	A1	887	G	C5-C4	5.99	1.42	1.38
3	A1	1189	U	C4-C5	5.99	1.49	1.43
3	A1	1252	A	N3-C4	-5.99	1.31	1.34
3	A1	1387	G	C4'-O4'	-5.99	1.37	1.45
16	AQ	33	ARG	NE-CZ	5.99	1.40	1.33
22	AW	17	ARG	CZ-NH1	-5.99	1.25	1.33
25	BB	667	U	C5-C6	5.99	1.39	1.34
25	BB	1160	G	C2-N2	-5.99	1.28	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1226	A	N3-C4	5.99	1.38	1.34
25	BB	2814	A	C5-C6	5.99	1.46	1.41
25	BB	2877	G	C4'-O4'	-5.99	1.37	1.45
1	AE	20	G	C6-N1	-5.99	1.35	1.39
1	AE	35	A	C4'-O4'	-5.99	1.37	1.45
3	A1	340	U	C4-C5	5.99	1.49	1.43
3	A1	813	U	C5'-C4'	5.99	1.58	1.51
3	A1	920	U	C2-N3	-5.99	1.33	1.37
3	A1	1058	G	N7-C5	5.99	1.42	1.39
3	A1	1144	G	C6-N1	-5.99	1.35	1.39
3	A1	1532	U	O3'-P	-5.99	1.53	1.61
24	BA	20	G	C3'-C2'	5.99	1.59	1.52
24	BA	52	A	C2-N3	-5.99	1.28	1.33
25	BB	24	G	C5'-C4'	5.99	1.58	1.51
25	BB	352	A	C4'-O4'	-5.99	1.37	1.45
25	BB	518	G	N3-C4	5.99	1.39	1.35
25	BB	1965	C	N3-C4	-5.99	1.29	1.33
25	BB	2583	G	C5'-C4'	5.99	1.58	1.51
25	BB	2605	U	N1-C2	5.99	1.44	1.38
1	AP	39	U	C4-O4	5.99	1.28	1.23
3	A1	1366	C	O5'-C5'	-5.99	1.33	1.42
17	AR	74	TYR	CE2-CZ	5.99	1.46	1.38
25	BB	1053	C	C5-C6	5.99	1.39	1.34
25	BB	1857	G	C3'-C2'	5.99	1.59	1.52
3	A1	943	U	C2'-C1'	5.99	1.59	1.53
3	A1	969	A	O3'-P	-5.99	1.53	1.61
25	BB	131	A	N9-C4	-5.99	1.34	1.37
25	BB	452	G	N1-C2	-5.99	1.32	1.37
25	BB	681	G	N7-C5	5.99	1.42	1.39
25	BB	1358	G	C2-N3	-5.99	1.27	1.32
25	BB	1797	G	C8-N7	5.99	1.34	1.30
25	BB	2206	C	C4-N4	-5.99	1.28	1.33
25	BB	2353	G	N9-C4	5.99	1.42	1.38
25	BB	2418	A	C6-N1	-5.99	1.31	1.35
25	BB	2576	G	C6-O6	-5.99	1.18	1.24
3	A1	258	G	O4'-C1'	5.98	1.49	1.41
3	A1	468	A	C8-N7	5.98	1.35	1.31
3	A1	628	G	N3-C4	5.98	1.39	1.35
3	A1	1089	G	N7-C5	5.98	1.42	1.39
3	A1	1134	G	C2'-C1'	-5.98	1.46	1.53
25	BB	161	A	C6-N1	-5.98	1.31	1.35
25	BB	173	A	C6-N1	-5.98	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	570	G	C2-N2	-5.98	1.28	1.34
25	BB	798	G	N1-C2	5.98	1.42	1.37
25	BB	1321	A	C5'-C4'	5.98	1.58	1.51
25	BB	1382	G	C5'-C4'	5.98	1.58	1.51
25	BB	2053	G	C2-N2	-5.98	1.28	1.34
3	A1	142	G	C5'-C4'	5.98	1.58	1.51
3	A1	269	C	N3-C4	-5.98	1.29	1.33
3	A1	1482	G	C2-N2	-5.98	1.28	1.34
3	A1	1489	G	C2-N2	-5.98	1.28	1.34
25	BB	868	U	N1-C6	5.98	1.43	1.38
25	BB	901	C	P-O5'	5.98	1.65	1.59
25	BB	1447	C	C5-C6	5.98	1.39	1.34
25	BB	1607	C	C2-N3	-5.98	1.30	1.35
25	BB	1870	C	P-O5'	-5.98	1.53	1.59
25	BB	2564	A	O5'-C5'	-5.98	1.33	1.42
25	BB	2839	G	O3'-P	-5.98	1.53	1.61
25	BB	2491	U	C4'-O4'	-5.98	1.37	1.45
25	BB	2781	A	C4'-O4'	-5.98	1.37	1.45
3	A1	913	A	C3'-C2'	5.98	1.59	1.52
3	A1	1308	U	C3'-C2'	-5.98	1.46	1.52
3	A1	1475	G	N9-C8	5.98	1.42	1.37
9	AH	83	ARG	CZ-NH2	-5.98	1.25	1.33
21	AV	14	ARG	CZ-NH1	-5.98	1.25	1.33
25	BB	1410	G	N1-C2	-5.98	1.32	1.37
25	BB	2856	A	N7-C5	5.98	1.42	1.39
3	A1	322	C	N1-C6	5.98	1.40	1.37
25	BB	153	U	C2-N3	-5.98	1.33	1.37
25	BB	2370	G	N9-C4	5.98	1.42	1.38
3	A1	217	C	C3'-C2'	5.97	1.59	1.52
3	A1	946	A	N3-C4	5.97	1.38	1.34
3	A1	995	C	C4-N4	-5.97	1.28	1.33
3	A1	1254	A	N9-C4	-5.97	1.34	1.37
24	BA	83	G	C2-N2	-5.97	1.28	1.34
25	BB	469	G	N7-C5	-5.97	1.35	1.39
25	BB	816	C	C2-N3	5.97	1.40	1.35
25	BB	1977	A	N3-C4	5.97	1.38	1.34
25	BB	2103	C	P-O5'	5.97	1.65	1.59
25	BB	2231	U	C2-N3	-5.97	1.33	1.37
25	BB	2755	C	C5'-C4'	5.97	1.58	1.51
3	A1	245	U	C2-O2	5.97	1.27	1.22
3	A1	1143	G	C2-N2	-5.97	1.28	1.34
3	A1	1316	G	C2-N2	-5.97	1.28	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	431	U	N1-C6	5.97	1.43	1.38
25	BB	812	C	C4'-C3'	5.97	1.59	1.53
25	BB	1197	G	C6-N1	-5.97	1.35	1.39
25	BB	1988	G	C5-C4	-5.97	1.34	1.38
25	BB	2125	G	N3-C4	5.97	1.39	1.35
25	BB	2211	A	C2'-O2'	5.97	1.49	1.41
25	BB	2249	U	C5-C6	5.97	1.39	1.34
25	BB	2365	G	C5'-C4'	5.97	1.58	1.51
3	A1	501	C	C4-N4	-5.97	1.28	1.33
25	BB	94	A	C6-N6	-5.97	1.29	1.33
25	BB	893	C	N3-C4	-5.97	1.29	1.33
25	BB	2708	G	C3'-C2'	5.97	1.59	1.52
1	AA	58	A	P-O5'	5.97	1.65	1.59
1	AE	46	G	O3'-P	-5.97	1.53	1.61
24	BA	50	A	O5'-C5'	-5.97	1.33	1.42
25	BB	147	C	P-O5'	5.97	1.65	1.59
25	BB	1486	U	C2-O2	5.97	1.27	1.22
25	BB	1506	U	N1-C6	-5.97	1.32	1.38
25	BB	2123	G	P-O5'	-5.97	1.53	1.59
25	BB	2280	G	N3-C4	5.97	1.39	1.35
25	BB	2646	C	C3'-O3'	5.97	1.50	1.42
3	A1	329	A	C6-N6	-5.97	1.29	1.33
24	BA	39	A	C6-N1	-5.97	1.31	1.35
25	BB	1077	A	P-O5'	5.97	1.65	1.59
25	BB	1699	G	C5-C6	5.97	1.48	1.42
51	B2	72	SER	CB-OG	-5.97	1.34	1.42
3	A1	645	G	N3-C4	5.97	1.39	1.35
3	A1	1301	U	C2'-C1'	5.97	1.59	1.53
24	BA	111	U	N1-C2	5.97	1.44	1.38
25	BB	548	G	N1-C2	-5.97	1.32	1.37
25	BB	1426	G	C6-N1	-5.97	1.35	1.39
25	BB	2033	A	N9-C4	5.97	1.41	1.37
25	BB	2517	C	C4-N4	-5.97	1.28	1.33
25	BB	2561	U	N3-C4	-5.97	1.33	1.38
25	BB	2565	A	N3-C4	-5.97	1.31	1.34
25	BB	2758	A	N7-C5	5.97	1.42	1.39
25	BB	2821	A	C2'-O2'	5.97	1.49	1.41
3	A1	156	C	N3-C4	-5.96	1.29	1.33
3	A1	282	A	N7-C5	5.96	1.42	1.39
3	A1	304	U	C5'-C4'	5.96	1.58	1.51
3	A1	705	G	C6-N1	-5.96	1.35	1.39
3	A1	1279	G	N3-C4	5.96	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	134	G	C4'-O4'	-5.96	1.37	1.45
25	BB	912	C	N1-C6	5.96	1.40	1.37
25	BB	2063	C	C2-N3	-5.96	1.30	1.35
25	BB	2210	U	N3-C4	-5.96	1.33	1.38
1	AA	63	C	C4-N4	-5.96	1.28	1.33
3	A1	470	C	O3'-P	5.96	1.68	1.61
3	A1	1339	A	N9-C8	-5.96	1.32	1.37
25	BB	789	A	N9-C4	-5.96	1.34	1.37
25	BB	1459	G	N3-C4	5.96	1.39	1.35
25	BB	1716	U	C2'-O2'	5.96	1.49	1.41
25	BB	2023	C	C4'-O4'	-5.96	1.37	1.45
3	A1	494	G	C3'-O3'	5.96	1.50	1.42
16	AQ	37	TYR	CE2-CZ	5.96	1.46	1.38
25	BB	1139	G	P-O5'	-5.96	1.53	1.59
25	BB	1200	C	N3-C4	-5.96	1.29	1.33
25	BB	1422	G	C2-N2	-5.96	1.28	1.34
25	BB	2210	U	P-O5'	5.96	1.65	1.59
25	BB	2506	U	C2'-O2'	5.96	1.49	1.41
25	BB	2627	G	O4'-C1'	5.96	1.49	1.41
25	BB	2670	A	O3'-P	-5.96	1.53	1.61
25	BB	2805	C	P-O5'	5.96	1.65	1.59
25	BB	2863	C	C5-C6	5.96	1.39	1.34
3	A1	515	G	C8-N7	-5.96	1.27	1.30
25	BB	347	A	C5-C6	-5.96	1.35	1.41
25	BB	620	G	N1-C2	-5.96	1.32	1.37
25	BB	1745	A	C6-N6	-5.96	1.29	1.33
1	AA	71	G	C2-N2	-5.96	1.28	1.34
3	A1	277	C	C4'-C3'	5.96	1.59	1.53
25	BB	116	C	C2'-C1'	-5.96	1.46	1.53
25	BB	254	G	C2'-C1'	5.96	1.59	1.53
25	BB	429	A	N9-C8	-5.96	1.32	1.37
25	BB	737	C	C4-N4	-5.96	1.28	1.33
25	BB	982	C	C2-O2	5.96	1.29	1.24
25	BB	1901	A	N3-C4	5.96	1.38	1.34
25	BB	2180	U	C3'-C2'	5.96	1.59	1.52
25	BB	2345	G	C2-N2	-5.96	1.28	1.34
3	A1	602	A	C6-N1	-5.96	1.31	1.35
3	A1	669	G	C2-N3	5.96	1.37	1.32
10	AI	38	PHE	CG-CD2	5.96	1.47	1.38
24	BA	112	G	C2-N2	-5.96	1.28	1.34
25	BB	385	C	C4-N4	-5.96	1.28	1.33
25	BB	478	A	N9-C4	5.96	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	492	A	C5-C4	-5.96	1.34	1.38
26	BC	18	ARG	CZ-NH1	-5.96	1.25	1.33
25	BB	2310	C	N1-C2	-5.96	1.34	1.40
53	B4	25	TYR	CG-CD2	5.96	1.46	1.39
1	AE	1	G	C2-N2	-5.95	1.28	1.34
3	A1	427	U	C5-C6	5.95	1.39	1.34
3	A1	433	G	C6-N1	5.95	1.43	1.39
3	A1	1439	G	N9-C8	5.95	1.42	1.37
25	BB	9	G	C2'-O2'	-5.95	1.33	1.41
25	BB	500	G	C8-N7	5.95	1.34	1.30
25	BB	534	U	O3'-P	-5.95	1.54	1.61
25	BB	624	C	C4-N4	-5.95	1.28	1.33
25	BB	1841	U	P-O5'	-5.95	1.53	1.59
25	BB	2502	G	P-O5'	5.95	1.65	1.59
32	BI	87	ARG	CZ-NH2	-5.95	1.25	1.33
3	A1	69	G	N1-C2	-5.95	1.32	1.37
3	A1	232	G	N7-C5	5.95	1.42	1.39
3	A1	861	G	C6-N1	-5.95	1.35	1.39
25	BB	867	C	C2-N3	5.95	1.40	1.35
25	BB	2267	A	C4'-C3'	5.95	1.59	1.53
1	AA	38	A	C5-C4	-5.95	1.34	1.38
3	A1	92	U	P-O5'	-5.95	1.53	1.59
3	A1	474	G	C2'-C1'	5.95	1.59	1.53
3	A1	842	U	N3-C4	-5.95	1.33	1.38
3	A1	910	C	C2'-O2'	5.95	1.49	1.41
3	A1	997	U	C4'-C3'	5.95	1.59	1.53
3	A1	1445	U	C5'-C4'	5.95	1.58	1.51
13	AL	2	ARG	CZ-NH2	-5.95	1.25	1.33
25	BB	340	A	C6-N1	-5.95	1.31	1.35
25	BB	472	A	N7-C5	5.95	1.42	1.39
25	BB	1545	A	C4'-C3'	-5.95	1.46	1.52
25	BB	1629	U	N1-C2	5.95	1.44	1.38
25	BB	2046	G	C5-C6	5.95	1.48	1.42
42	BS	19	GLY	CA-C	5.95	1.61	1.51
1	AE	33	U	C3'-C2'	5.95	1.59	1.52
3	A1	53	A	N9-C4	5.95	1.41	1.37
3	A1	286	C	C4'-O4'	-5.95	1.37	1.45
24	BA	110	C	C4'-C3'	5.95	1.59	1.53
25	BB	619	G	C6-N1	-5.95	1.35	1.39
25	BB	877	A	N9-C4	5.95	1.41	1.37
25	BB	904	G	O4'-C1'	5.95	1.49	1.41
25	BB	926	G	N7-C5	5.95	1.42	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1367	A	C8-N7	5.95	1.35	1.31
25	BB	1626	A	C2'-C1'	-5.95	1.46	1.53
25	BB	1881	C	P-O5'	-5.95	1.53	1.59
25	BB	2115	G	N7-C5	5.95	1.42	1.39
25	BB	2786	U	C5'-C4'	5.95	1.58	1.51
3	A1	60	A	C3'-C2'	5.95	1.59	1.52
3	A1	746	A	C8-N7	-5.95	1.27	1.31
25	BB	1357	C	C4-C5	-5.95	1.38	1.43
25	BB	1990	C	C2-N3	5.95	1.40	1.35
1	AA	68	U	C4-O4	-5.95	1.18	1.23
3	A1	601	G	C2-N2	-5.95	1.28	1.34
3	A1	832	G	C2'-C1'	-5.95	1.46	1.53
3	A1	1516	G	C6-O6	-5.95	1.18	1.24
25	BB	420	C	N3-C4	-5.95	1.29	1.33
25	BB	498	G	C5'-C4'	5.95	1.58	1.51
25	BB	1424	G	N3-C4	5.95	1.39	1.35
25	BB	1535	A	C6-N1	-5.95	1.31	1.35
25	BB	1615	C	C4'-C3'	5.95	1.59	1.53
25	BB	1628	G	C5'-C4'	5.95	1.58	1.51
3	A1	293	G	N3-C4	5.94	1.39	1.35
3	A1	535	A	C6-N6	-5.94	1.29	1.33
25	BB	1930	G	O4'-C1'	5.94	1.49	1.41
25	BB	2176	A	C6-N1	-5.94	1.31	1.35
3	A1	346	G	C5-C6	5.94	1.48	1.42
3	A1	431	A	O3'-P	-5.94	1.54	1.61
3	A1	570	G	C2-N2	-5.94	1.28	1.34
3	A1	873	A	N7-C5	5.94	1.42	1.39
3	A1	933	G	N1-C2	-5.94	1.32	1.37
3	A1	1045	C	C4-N4	-5.94	1.28	1.33
25	BB	122	G	C4'-C3'	5.94	1.59	1.53
25	BB	1182	G	N7-C5	5.94	1.42	1.39
25	BB	1365	A	C4'-O4'	-5.94	1.37	1.45
25	BB	1828	G	O3'-P	-5.94	1.54	1.61
3	A1	168	G	C2-N3	5.94	1.37	1.32
3	A1	646	G	C2-N2	-5.94	1.28	1.34
3	A1	720	C	C4-N4	-5.94	1.28	1.33
3	A1	906	A	C4'-O4'	-5.94	1.37	1.45
3	A1	1165	U	C2-N3	5.94	1.42	1.37
25	BB	120	U	P-O5'	-5.94	1.53	1.59
25	BB	709	U	P-O5'	-5.94	1.53	1.59
25	BB	760	G	N1-C2	-5.94	1.32	1.37
25	BB	765	C	C2-O2	-5.94	1.19	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	799	G	N9-C8	5.94	1.42	1.37
25	BB	1177	G	N9-C8	5.94	1.42	1.37
25	BB	1687	G	N3-C4	5.94	1.39	1.35
3	A1	796	C	P-O5'	5.94	1.65	1.59
25	BB	491	G	C2-N2	-5.94	1.28	1.34
25	BB	1046	A	C5-C6	5.94	1.46	1.41
3	A1	267	C	N1-C6	5.94	1.40	1.37
3	A1	1471	U	O3'-P	-5.94	1.54	1.61
3	A1	1489	G	C5'-C4'	5.94	1.58	1.51
25	BB	37	C	N3-C4	5.94	1.38	1.33
25	BB	733	G	C5-C4	5.94	1.42	1.38
25	BB	1710	G	N1-C2	-5.94	1.33	1.37
25	BB	2011	U	N3-C4	-5.94	1.33	1.38
33	BJ	57	ARG	N-CA	5.94	1.58	1.46
3	A1	62	U	C4'-C3'	5.94	1.59	1.53
3	A1	974	A	C2'-C1'	5.94	1.59	1.53
3	A1	1024	G	N7-C5	-5.94	1.35	1.39
25	BB	556	A	C4'-C3'	-5.94	1.46	1.52
25	BB	1210	G	C5-C6	5.94	1.48	1.42
25	BB	1814	G	C8-N7	-5.94	1.27	1.30
3	A1	765	G	C5-C6	5.93	1.48	1.42
24	BA	60	C	N3-C4	-5.93	1.29	1.33
25	BB	1390	U	P-O5'	5.93	1.65	1.59
25	BB	1674	G	N3-C4	5.93	1.39	1.35
25	BB	1743	G	C8-N7	-5.93	1.27	1.30
25	BB	1764	C	P-O5'	5.93	1.65	1.59
25	BB	2023	C	C5'-C4'	5.93	1.58	1.51
25	BB	2547	A	C8-N7	5.93	1.35	1.31
55	B6	125	TYR	CG-CD2	5.93	1.46	1.39
1	AP	26	G	C4'-C3'	-5.93	1.46	1.52
3	A1	849	G	C5-C6	5.93	1.48	1.42
3	A1	1308	U	C2'-C1'	-5.93	1.46	1.53
3	A1	1339	A	C5-C6	5.93	1.46	1.41
25	BB	1061	U	C3'-C2'	5.93	1.59	1.52
1	AP	16	U	N1-C6	5.93	1.43	1.38
1	AE	50	U	C2'-O2'	5.93	1.49	1.41
3	A1	948	C	N1-C6	5.93	1.40	1.37
3	A1	951	G	C8-N7	-5.93	1.27	1.30
25	BB	1519	G	C8-N7	5.93	1.34	1.30
25	BB	1721	G	C4'-O4'	-5.93	1.37	1.45
25	BB	2742	G	C8-N7	5.93	1.34	1.30
3	A1	275	G	C2-N2	-5.93	1.28	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	316	C	N1-C6	-5.93	1.33	1.37
3	A1	932	C	C2-N3	5.93	1.40	1.35
24	BA	41	G	C5-C4	5.93	1.42	1.38
25	BB	16	C	N1-C2	5.93	1.46	1.40
25	BB	520	G	P-O5'	5.93	1.65	1.59
25	BB	623	C	C2-O2	-5.93	1.19	1.24
25	BB	1153	C	C4-N4	-5.93	1.28	1.33
25	BB	1463	C	C4-C5	-5.93	1.38	1.43
25	BB	1968	G	C8-N7	-5.93	1.27	1.30
25	BB	2064	C	C1'-N1	5.93	1.57	1.48
25	BB	954	G	P-O5'	5.93	1.65	1.59
25	BB	1716	U	C5-C6	5.93	1.39	1.34
25	BB	2453	A	N7-C5	5.93	1.42	1.39
2	AM	19	U	C2'-C1'	5.93	1.59	1.53
3	A1	357	G	N3-C4	5.93	1.39	1.35
3	A1	525	C	C2-N3	5.93	1.40	1.35
3	A1	1329	A	C6-N1	-5.93	1.31	1.35
25	BB	497	A	P-O5'	5.93	1.65	1.59
25	BB	1277	G	C5-C4	5.93	1.42	1.38
25	BB	2292	U	C2-O2	5.93	1.27	1.22
25	BB	2729	G	C2'-C1'	-5.93	1.46	1.53
3	A1	325	A	N9-C4	5.92	1.41	1.37
3	A1	510	A	N1-C2	-5.92	1.29	1.34
3	A1	1272	G	C2-N3	-5.92	1.28	1.32
24	BA	30	C	C4-C5	-5.92	1.38	1.43
25	BB	94	A	N3-C4	5.92	1.38	1.34
25	BB	1731	G	C3'-C2'	-5.92	1.46	1.52
25	BB	1962	C	C4'-O4'	-5.92	1.37	1.45
3	A1	673	A	C5'-C4'	5.92	1.58	1.51
25	BB	928	A	C8-N7	-5.92	1.27	1.31
3	A1	117	G	N3-C4	5.92	1.39	1.35
3	A1	1427	C	C5'-C4'	5.92	1.58	1.51
25	BB	862	G	C6-N1	-5.92	1.35	1.39
25	BB	1330	C	C2-O2	-5.92	1.19	1.24
25	BB	2367	G	C8-N7	5.92	1.34	1.30
25	BB	2494	G	O3'-P	-5.92	1.54	1.61
25	BB	2557	G	N7-C5	5.92	1.42	1.39
25	BB	2581	G	N3-C4	5.92	1.39	1.35
25	BB	2762	C	C2-N3	-5.92	1.31	1.35
3	A1	761	G	N7-C5	5.92	1.42	1.39
25	BB	1267	U	C5-C6	5.92	1.39	1.34
25	BB	2109	U	C3'-C2'	5.92	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2722	G	C4'-O4'	-5.92	1.37	1.45
25	BB	262	A	N9-C4	-5.92	1.34	1.37
25	BB	270	A	N3-C4	-5.92	1.31	1.34
25	BB	494	G	C2-N2	-5.92	1.28	1.34
25	BB	789	A	C2-N3	-5.92	1.28	1.33
25	BB	2010	G	N3-C4	5.92	1.39	1.35
25	BB	2224	G	C5'-C4'	5.92	1.58	1.51
25	BB	2263	C	C2-N3	-5.92	1.31	1.35
25	BB	2351	G	N1-C2	-5.92	1.33	1.37
25	BB	2450	A	C8-N7	-5.92	1.27	1.31
25	BB	2507	C	C4'-O4'	-5.92	1.37	1.45
1	AE	21	A	N9-C4	-5.92	1.34	1.37
3	A1	451	A	C3'-O3'	5.92	1.50	1.42
3	A1	823	C	N3-C4	-5.92	1.29	1.33
3	A1	1019	A	C5-C6	5.92	1.46	1.41
25	BB	17	G	N1-C2	-5.92	1.33	1.37
25	BB	332	A	C4'-O4'	-5.92	1.37	1.45
25	BB	954	G	C2-N2	-5.92	1.28	1.34
25	BB	1190	G	C3'-C2'	5.92	1.59	1.52
25	BB	1308	A	N9-C4	5.92	1.41	1.37
25	BB	400	G	N9-C4	5.92	1.42	1.38
25	BB	2037	A	C5'-C4'	5.92	1.58	1.51
25	BB	2048	G	C6-N1	-5.92	1.35	1.39
25	BB	2171	A	C8-N7	-5.92	1.27	1.31
25	BB	2341	G	C6-N1	-5.92	1.35	1.39
3	A1	363	A	C6-N6	-5.91	1.29	1.33
3	A1	1475	G	C2-N2	-5.91	1.28	1.34
3	A1	1498	U	C5-C6	5.91	1.39	1.34
25	BB	1095	A	C5'-C4'	5.91	1.58	1.51
25	BB	1238	G	C4'-O4'	-5.91	1.37	1.45
25	BB	2405	G	C2'-C1'	5.91	1.59	1.53
25	BB	2531	A	C8-N7	-5.91	1.27	1.31
3	A1	628	G	C3'-C2'	5.91	1.59	1.52
3	A1	762	U	O4'-C1'	5.91	1.49	1.41
25	BB	10	A	C4'-O4'	-5.91	1.37	1.45
37	BN	55	GLY	N-CA	-5.91	1.37	1.46
3	A1	306	A	C1'-N9	5.91	1.57	1.48
3	A1	1032	G	N7-C5	5.91	1.42	1.39
3	A1	1135	U	C2-N3	5.91	1.41	1.37
24	BA	10	G	C4'-O4'	5.91	1.53	1.45
25	BB	364	C	N3-C4	-5.91	1.29	1.33
25	BB	1122	G	O3'-P	-5.91	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1546	G	C4'-O4'	-5.91	1.37	1.45
25	BB	2058	A	N3-C4	5.91	1.38	1.34
25	BB	2147	A	C6-N1	-5.91	1.31	1.35
25	BB	2520	C	N3-C4	-5.91	1.29	1.33
25	BB	2726	A	C5'-C4'	5.91	1.58	1.51
25	BB	2789	C	C3'-C2'	5.91	1.59	1.52
3	A1	746	A	N7-C5	5.91	1.42	1.39
3	A1	1070	U	C4-C5	5.91	1.48	1.43
3	A1	1257	A	C6-N6	-5.91	1.29	1.33
5	AC	47	GLY	CA-C	5.91	1.61	1.51
25	BB	344	A	N3-C4	5.91	1.38	1.34
25	BB	461	C	N1-C6	5.91	1.40	1.37
25	BB	822	G	C2-N3	-5.91	1.28	1.32
25	BB	878	A	C5-C6	5.91	1.46	1.41
25	BB	1542	U	C3'-C2'	5.91	1.59	1.52
25	BB	2177	C	C4-N4	-5.91	1.28	1.33
52	B3	54	ARG	CZ-NH2	-5.91	1.25	1.33
3	A1	550	G	C5'-C4'	5.91	1.58	1.51
3	A1	765	G	C2-N2	-5.91	1.28	1.34
3	A1	1272	G	C2-N2	-5.91	1.28	1.34
24	BA	89	U	N1-C6	-5.91	1.32	1.38
25	BB	1281	G	N7-C5	5.91	1.42	1.39
25	BB	2468	A	C2'-O2'	5.91	1.49	1.41
3	A1	245	U	C4-O4	-5.91	1.19	1.23
3	A1	492	C	C4'-O4'	-5.91	1.37	1.45
3	A1	640	A	N3-C4	5.91	1.38	1.34
3	A1	856	C	C4-N4	-5.91	1.28	1.33
3	A1	1201	A	C2'-C1'	5.91	1.59	1.53
25	BB	260	G	C2-N2	-5.91	1.28	1.34
25	BB	1631	G	C8-N7	5.91	1.34	1.30
25	BB	2215	C	C2-O2	-5.91	1.19	1.24
25	BB	2611	C	C4-N4	-5.91	1.28	1.33
25	BB	2818	U	N3-C4	-5.91	1.33	1.38
25	BB	60	G	C2-N2	-5.90	1.28	1.34
25	BB	73	A	N9-C4	-5.90	1.34	1.37
25	BB	97	C	C2-N3	5.90	1.40	1.35
25	BB	214	G	N1-C2	-5.90	1.33	1.37
25	BB	218	A	C3'-C2'	5.90	1.59	1.52
25	BB	1669	A	C3'-C2'	5.90	1.59	1.52
25	BB	2634	A	N7-C5	5.90	1.42	1.39
3	A1	631	C	N3-C4	-5.90	1.29	1.33
3	A1	789	U	N3-C4	-5.90	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1025	U	C4'-O4'	-5.90	1.37	1.45
24	BA	76	G	C6-O6	-5.90	1.18	1.24
25	BB	486	C	P-O5'	5.90	1.65	1.59
25	BB	507	A	O4'-C1'	5.90	1.49	1.41
25	BB	1363	C	C5-C6	5.90	1.39	1.34
25	BB	1458	U	P-O5'	5.90	1.65	1.59
25	BB	1631	G	N1-C2	-5.90	1.33	1.37
25	BB	1765	U	P-O5'	-5.90	1.53	1.59
25	BB	2249	U	O4'-C1'	5.90	1.49	1.41
50	B1	155	GLU	CD-OE2	-5.90	1.19	1.25
3	A1	115	G	C2-N2	-5.90	1.28	1.34
25	BB	621	A	C6-N1	-5.90	1.31	1.35
25	BB	925	A	C5-C6	5.90	1.46	1.41
25	BB	1008	A	N1-C2	-5.90	1.29	1.34
25	BB	1989	G	N1-C2	-5.90	1.33	1.37
25	BB	2685	G	C5-C6	5.90	1.48	1.42
25	BB	2746	U	N1-C2	-5.90	1.33	1.38
3	A1	341	C	N3-C4	-5.90	1.29	1.33
3	A1	1506	U	C4'-C3'	5.90	1.59	1.53
25	BB	630	G	N1-C2	-5.90	1.33	1.37
25	BB	1959	G	C8-N7	-5.90	1.27	1.30
25	BB	1997	C	C5'-C4'	5.90	1.58	1.51
25	BB	2126	A	N7-C5	5.90	1.42	1.39
1	AA	57	G	C2'-O2'	5.90	1.49	1.41
3	A1	58	C	C5-C6	5.90	1.39	1.34
3	A1	160	A	C5-C6	-5.90	1.35	1.41
3	A1	1481	U	C4'-O4'	-5.90	1.37	1.45
25	BB	20	C	C5'-C4'	5.90	1.58	1.51
25	BB	761	A	N7-C5	5.90	1.42	1.39
25	BB	1057	A	C6-N1	-5.90	1.31	1.35
25	BB	2322	A	N7-C5	5.90	1.42	1.39
25	BB	1257	C	C4'-C3'	5.90	1.59	1.53
3	A1	329	A	C6-N1	-5.89	1.31	1.35
25	BB	177	G	O3'-P	-5.89	1.54	1.61
25	BB	898	C	C4'-O4'	-5.89	1.37	1.45
25	BB	1056	G	C5'-C4'	5.89	1.58	1.51
25	BB	1091	G	C6-O6	-5.89	1.18	1.24
25	BB	1346	G	P-O5'	5.89	1.65	1.59
25	BB	1611	C	C4'-C3'	5.89	1.59	1.53
25	BB	1651	G	C5'-C4'	5.89	1.58	1.51
25	BB	1658	C	C2-N3	5.89	1.40	1.35
25	BB	2520	C	C5-C6	5.89	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	549	G	N7-C5	5.89	1.42	1.39
25	BB	726	G	N1-C2	-5.89	1.33	1.37
25	BB	730	A	C6-N6	-5.89	1.29	1.33
25	BB	1123	C	C4-N4	-5.89	1.28	1.33
25	BB	1563	U	N1-C6	-5.89	1.32	1.38
25	BB	1699	G	C3'-C2'	5.89	1.59	1.52
25	BB	2155	U	N3-C4	-5.89	1.33	1.38
25	BB	2309	A	O3'-P	-5.89	1.54	1.61
25	BB	2469	A	C3'-C2'	5.89	1.59	1.52
23	AX	37	ARG	CZ-NH1	-5.89	1.25	1.33
25	BB	209	C	C4-N4	-5.89	1.28	1.33
25	BB	1292	G	C4'-O4'	-5.89	1.37	1.45
25	BB	2502	G	N1-C2	-5.89	1.33	1.37
25	BB	2831	G	C2-N2	-5.89	1.28	1.34
1	AA	42	G	N9-C8	5.89	1.42	1.37
3	A1	103	U	C2-O2	5.89	1.27	1.22
3	A1	164	G	C5-C4	-5.89	1.34	1.38
3	A1	849	G	C2'-C1'	5.89	1.59	1.53
3	A1	1403	C	C4-N4	-5.89	1.28	1.33
25	BB	485	C	N3-C4	-5.89	1.29	1.33
25	BB	713	G	N7-C5	5.89	1.42	1.39
25	BB	1540	G	N1-C2	-5.89	1.33	1.37
25	BB	1924	C	O3'-P	-5.89	1.54	1.61
25	BB	1944	U	C2-N3	5.89	1.41	1.37
25	BB	1959	G	N1-C2	-5.89	1.33	1.37
25	BB	2231	U	N3-C4	-5.89	1.33	1.38
25	BB	2458	G	C4'-C3'	5.89	1.59	1.53
25	BB	2538	C	C5'-C4'	-5.89	1.44	1.51
50	B1	54	GLY	CA-C	5.89	1.61	1.51
25	BB	359	G	C2-N2	-5.89	1.28	1.34
25	BB	1701	A	C4'-C3'	-5.89	1.46	1.52
25	BB	2671	G	O3'-P	-5.89	1.54	1.61
25	BB	2864	G	N3-C4	5.89	1.39	1.35
3	A1	152	A	O3'-P	-5.89	1.54	1.61
3	A1	387	U	C5-C6	5.89	1.39	1.34
3	A1	764	C	O3'-P	-5.89	1.54	1.61
3	A1	904	U	C2-N3	5.89	1.41	1.37
3	A1	1028	C	C5'-C4'	5.89	1.58	1.51
3	A1	1135	U	N1-C2	5.89	1.43	1.38
3	A1	1186	G	C8-N7	5.89	1.34	1.30
24	BA	65	U	O3'-P	-5.89	1.54	1.61
25	BB	51	G	P-O5'	5.89	1.65	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	95	A	C2'-C1'	5.89	1.59	1.53
25	BB	524	G	C3'-C2'	5.89	1.59	1.52
25	BB	744	U	O3'-P	5.89	1.68	1.61
25	BB	2134	A	N7-C5	5.89	1.42	1.39
25	BB	2150	C	C4'-C3'	5.89	1.59	1.53
25	BB	2716	C	C5-C6	5.89	1.39	1.34
25	BB	2820	A	N3-C4	-5.89	1.31	1.34
3	A1	306	A	C5'-C4'	5.88	1.58	1.51
3	A1	332	G	C2-N2	-5.88	1.28	1.34
3	A1	422	C	P-O5'	5.88	1.65	1.59
3	A1	624	C	C2'-C1'	-5.88	1.46	1.53
3	A1	1127	G	N1-C2	-5.88	1.33	1.37
3	A1	1501	C	C4'-C3'	5.88	1.59	1.53
24	BA	42	C	C4'-O4'	-5.88	1.37	1.45
25	BB	297	G	C5-C6	5.88	1.48	1.42
25	BB	1293	C	O3'-P	-5.88	1.54	1.61
25	BB	2223	G	C5-C6	5.88	1.48	1.42
25	BB	2519	U	C5-C6	5.88	1.39	1.34
25	BB	2778	A	C4'-O4'	-5.88	1.37	1.45
3	A1	1294	G	C6-O6	-5.88	1.18	1.24
24	BA	4	C	P-O5'	5.88	1.65	1.59
24	BA	101	A	N3-C4	5.88	1.38	1.34
25	BB	1214	A	N1-C2	-5.88	1.29	1.34
25	BB	1966	A	N7-C5	5.88	1.42	1.39
25	BB	2467	C	N1-C6	5.88	1.40	1.37
1	AP	62	A	N3-C4	5.88	1.38	1.34
3	A1	901	A	N1-C2	-5.88	1.29	1.34
3	A1	1179	A	O4'-C1'	5.88	1.49	1.41
3	A1	1340	A	N9-C8	-5.88	1.33	1.37
9	AH	53	ARG	CZ-NH2	-5.88	1.25	1.33
24	BA	13	G	C5'-C4'	5.88	1.58	1.51
25	BB	275	C	N3-C4	-5.88	1.29	1.33
25	BB	615	U	C2'-C1'	5.88	1.59	1.53
25	BB	1643	G	C5-C6	5.88	1.48	1.42
25	BB	2353	G	N1-C2	-5.88	1.33	1.37
25	BB	2504	U	N1-C2	5.88	1.43	1.38
25	BB	2643	G	O3'-P	-5.88	1.54	1.61
25	BB	2758	A	N1-C2	-5.88	1.29	1.34
3	A1	850	U	C4'-O4'	-5.88	1.38	1.45
25	BB	327	G	C2-N2	-5.88	1.28	1.34
25	BB	1065	U	C4-O4	-5.88	1.19	1.23
25	BB	1576	U	C3'-C2'	5.88	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	393	A	C6-N6	-5.88	1.29	1.33
3	A1	1271	A	C4'-C3'	-5.88	1.46	1.52
3	A1	1423	G	O3'-P	-5.88	1.54	1.61
25	BB	133	U	C2'-O2'	5.88	1.49	1.41
25	BB	199	A	C3'-C2'	5.88	1.59	1.52
25	BB	378	C	C4-N4	-5.88	1.28	1.33
25	BB	440	C	C2-O2	-5.88	1.19	1.24
25	BB	752	A	P-O5'	5.88	1.65	1.59
25	BB	916	G	C5-C4	5.88	1.42	1.38
25	BB	1089	A	C2'-O2'	5.88	1.49	1.41
25	BB	1475	G	N9-C8	5.88	1.42	1.37
25	BB	1891	G	C5-C6	5.88	1.48	1.42
25	BB	2063	C	N3-C4	-5.88	1.29	1.33
25	BB	2140	G	N1-C2	-5.88	1.33	1.37
25	BB	2421	G	C5-C6	5.88	1.48	1.42
25	BB	2487	G	N9-C4	5.88	1.42	1.38
30	BG	45	ARG	CZ-NH1	-5.88	1.25	1.33
3	A1	145	G	N3-C4	5.88	1.39	1.35
3	A1	397	A	C5-C6	5.88	1.46	1.41
25	BB	558	U	C4-C5	5.88	1.48	1.43
25	BB	1364	G	N3-C4	5.88	1.39	1.35
25	BB	1476	U	O4'-C1'	-5.88	1.34	1.41
25	BB	2196	C	C4-N4	-5.88	1.28	1.33
25	BB	2640	G	C5-C6	5.88	1.48	1.42
3	A1	560	A	C8-N7	-5.88	1.27	1.31
3	A1	878	A	C6-N6	-5.88	1.29	1.33
25	BB	14	A	N1-C2	-5.88	1.29	1.34
25	BB	1487	U	P-O5'	-5.88	1.53	1.59
3	A1	394	G	C6-N1	-5.87	1.35	1.39
25	BB	843	G	C8-N7	-5.87	1.27	1.30
25	BB	928	A	C6-N1	-5.87	1.31	1.35
25	BB	979	A	N7-C5	5.87	1.42	1.39
25	BB	1037	G	C5-C6	5.87	1.48	1.42
25	BB	1319	C	C2-N3	-5.87	1.31	1.35
25	BB	2260	C	C4-N4	-5.87	1.28	1.33
25	BB	2310	C	C2-N3	5.87	1.40	1.35
25	BB	2352	A	C6-N6	-5.87	1.29	1.33
25	BB	2539	C	C4-N4	-5.87	1.28	1.33
25	BB	2549	G	C6-N1	-5.87	1.35	1.39
25	BB	2668	G	N9-C8	5.87	1.42	1.37
1	AP	10	G	N9-C4	5.87	1.42	1.38
3	A1	839	C	N3-C4	-5.87	1.29	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	948	C	C2-O2	-5.87	1.19	1.24
3	A1	1001	C	N1-C6	-5.87	1.33	1.37
24	BA	91	C	C4-C5	-5.87	1.38	1.43
25	BB	254	G	C6-N1	-5.87	1.35	1.39
25	BB	943	A	C5'-C4'	5.87	1.58	1.51
25	BB	976	G	N7-C5	5.87	1.42	1.39
25	BB	1853	A	N1-C2	-5.87	1.29	1.34
25	BB	1904	G	C4'-O4'	-5.87	1.38	1.45
25	BB	1968	G	O3'-P	-5.87	1.54	1.61
3	A1	10	A	N7-C5	5.87	1.42	1.39
3	A1	770	C	O4'-C1'	5.87	1.49	1.41
3	A1	81	A	N9-C8	-5.87	1.33	1.37
3	A1	814	A	C6-N1	-5.87	1.31	1.35
3	A1	1372	U	N1-C2	5.87	1.43	1.38
25	BB	338	G	C2'-C1'	5.87	1.59	1.53
25	BB	905	A	O3'-P	-5.87	1.54	1.61
25	BB	929	U	P-O5'	-5.87	1.53	1.59
25	BB	1845	G	C4'-O4'	-5.87	1.38	1.45
25	BB	1959	G	C2-N2	-5.87	1.28	1.34
25	BB	2361	G	P-O5'	-5.87	1.53	1.59
25	BB	2462	C	N1-C6	5.87	1.40	1.37
25	BB	2765	A	C8-N7	-5.87	1.27	1.31
25	BB	2859	G	C3'-O3'	5.87	1.50	1.42
25	BB	477	A	O3'-P	-5.87	1.54	1.61
25	BB	1337	G	C2'-C1'	5.87	1.59	1.53
25	BB	1784	A	O3'-P	-5.87	1.54	1.61
25	BB	2046	G	C5'-C4'	5.87	1.58	1.51
25	BB	2197	U	N1-C6	5.87	1.43	1.38
25	BB	2294	G	N9-C8	-5.87	1.33	1.37
25	BB	2492	U	N1-C2	5.87	1.43	1.38
1	AP	36	A	N9-C4	5.87	1.41	1.37
3	A1	40	C	N1-C2	-5.87	1.34	1.40
3	A1	287	U	C3'-C2'	5.87	1.59	1.52
3	A1	609	A	C5'-C4'	5.87	1.58	1.51
3	A1	909	A	C3'-C2'	5.87	1.59	1.52
3	A1	918	A	C4'-C3'	-5.87	1.46	1.52
25	BB	922	C	C2-N3	-5.87	1.31	1.35
25	BB	1232	G	N9-C8	-5.87	1.33	1.37
25	BB	1740	G	C8-N7	5.87	1.34	1.30
1	AP	45	G	O4'-C1'	5.86	1.49	1.41
6	AD	121	PRO	N-CD	-5.86	1.39	1.47
25	BB	124	G	C5-C6	5.86	1.48	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	468	G	N1-C2	-5.86	1.33	1.37
25	BB	678	C	N3-C4	-5.86	1.29	1.33
25	BB	973	A	N9-C4	5.86	1.41	1.37
25	BB	976	G	C2'-C1'	-5.86	1.46	1.53
25	BB	1024	G	C4'-C3'	5.86	1.59	1.53
25	BB	1120	G	P-O5'	5.86	1.65	1.59
25	BB	1480	C	P-O5'	5.86	1.65	1.59
25	BB	2745	C	N3-C4	-5.86	1.29	1.33
3	A1	186	C	P-O5'	5.86	1.65	1.59
3	A1	307	C	C4'-C3'	5.86	1.59	1.53
3	A1	736	C	C5-C6	5.86	1.39	1.34
3	A1	425	G	C2-N2	-5.86	1.28	1.34
3	A1	504	C	P-O5'	5.86	1.65	1.59
3	A1	664	G	P-O5'	-5.86	1.53	1.59
3	A1	881	G	N7-C5	5.86	1.42	1.39
3	A1	953	G	N7-C5	5.86	1.42	1.39
12	AK	72	ARG	CZ-NH1	-5.86	1.25	1.33
25	BB	943	A	C8-N7	-5.86	1.27	1.31
25	BB	1653	G	N3-C4	5.86	1.39	1.35
25	BB	2536	G	N7-C5	5.86	1.42	1.39
25	BB	2598	A	C6-N6	-5.86	1.29	1.33
1	AA	65	G	N3-C4	5.86	1.39	1.35
1	AE	65	G	C6-O6	-5.86	1.18	1.24
25	BB	1044	C	C2-O2	-5.86	1.19	1.24
25	BB	2672	U	P-O5'	5.86	1.65	1.59
1	AE	36	A	N3-C4	5.86	1.38	1.34
3	A1	237	G	C8-N7	5.86	1.34	1.30
3	A1	364	A	C6-N6	-5.86	1.29	1.33
3	A1	1043	G	C4'-O4'	-5.86	1.38	1.45
3	A1	1094	G	C2'-C1'	5.86	1.59	1.53
3	A1	1530	G	C8-N7	5.86	1.34	1.30
25	BB	74	A	N7-C5	5.86	1.42	1.39
25	BB	820	A	N3-C4	5.86	1.38	1.34
25	BB	1166	G	N7-C5	5.86	1.42	1.39
25	BB	1388	G	N3-C4	5.86	1.39	1.35
25	BB	1389	G	C6-N1	-5.86	1.35	1.39
25	BB	1431	A	C2'-O2'	5.86	1.49	1.41
25	BB	2391	G	C4'-O4'	-5.86	1.38	1.45
25	BB	2441	U	C5'-C4'	5.86	1.58	1.51
1	AP	40	C	P-O5'	-5.86	1.53	1.59
3	A1	502	A	C3'-O3'	5.86	1.50	1.42
3	A1	595	A	O3'-P	-5.86	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1010	U	C2-N3	5.86	1.41	1.37
3	A1	1230	C	C4-C5	-5.86	1.38	1.43
3	A1	1486	G	C8-N7	-5.86	1.27	1.30
18	AS	44	ARG	CZ-NH1	-5.86	1.25	1.33
25	BB	43	G	C4'-O4'	-5.86	1.38	1.45
25	BB	219	A	C8-N7	5.86	1.35	1.31
25	BB	1245	G	C3'-C2'	5.86	1.59	1.52
25	BB	1563	U	N1-C2	5.86	1.43	1.38
25	BB	1719	G	C5'-C4'	5.86	1.58	1.51
5	AC	121	ARG	CZ-NH1	-5.85	1.25	1.33
25	BB	1677	A	N1-C2	-5.85	1.29	1.34
25	BB	2801	G	C2-N2	-5.85	1.28	1.34
25	BB	2853	C	C5'-C4'	5.85	1.58	1.51
2	AM	11	U	N1-C6	5.85	1.43	1.38
3	A1	1505	G	C3'-O3'	5.85	1.50	1.42
25	BB	519	U	C2-N3	5.85	1.41	1.37
25	BB	874	G	C5-C4	5.85	1.42	1.38
25	BB	1033	U	C5-C6	5.85	1.39	1.34
25	BB	1378	A	C4'-C3'	5.85	1.59	1.53
25	BB	2623	G	C6-O6	-5.85	1.18	1.24
3	A1	239	U	C1'-N1	5.85	1.57	1.48
3	A1	346	G	C2-N2	-5.85	1.28	1.34
3	A1	526	C	C4-N4	-5.85	1.28	1.33
3	A1	921	U	C4'-C3'	5.85	1.59	1.53
25	BB	351	C	C5-C6	5.85	1.39	1.34
25	BB	473	G	C2-N2	-5.85	1.28	1.34
25	BB	500	G	N1-C2	-5.85	1.33	1.37
25	BB	1087	G	C5-C6	5.85	1.48	1.42
25	BB	2543	G	N9-C8	-5.85	1.33	1.37
25	BB	2731	G	N1-C2	-5.85	1.33	1.37
3	A1	108	G	N3-C4	5.85	1.39	1.35
3	A1	1121	U	C4-C5	-5.85	1.38	1.43
3	A1	1313	U	C2'-C1'	5.85	1.59	1.53
25	BB	71	A	C5-C6	5.85	1.46	1.41
25	BB	656	G	C5-C6	-5.85	1.36	1.42
25	BB	862	G	N1-C2	-5.85	1.33	1.37
25	BB	905	A	C2'-C1'	5.85	1.59	1.53
25	BB	1071	G	N9-C8	5.85	1.42	1.37
25	BB	1735	A	N9-C4	-5.85	1.34	1.37
25	BB	2585	U	C5'-C4'	5.85	1.58	1.51
52	B3	169	ARG	CD-NE	5.85	1.56	1.46
3	A1	1202	U	C2-N3	-5.85	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1420	U	N1-C2	5.85	1.43	1.38
25	BB	1529	G	C6-N1	-5.85	1.35	1.39
25	BB	1700	A	N9-C4	-5.85	1.34	1.37
25	BB	1906	G	N9-C4	5.85	1.42	1.38
25	BB	2189	U	O3'-P	-5.85	1.54	1.61
25	BB	2340	A	N9-C4	5.85	1.41	1.37
25	BB	2350	C	C3'-C2'	5.85	1.59	1.52
3	A1	1219	A	C2'-C1'	5.85	1.59	1.53
3	A1	1412	C	O4'-C1'	5.85	1.49	1.41
25	BB	429	A	O3'-P	-5.85	1.54	1.61
25	BB	511	U	C2'-C1'	5.85	1.59	1.53
25	BB	531	C	C4-N4	-5.85	1.28	1.33
25	BB	2155	U	C4-O4	5.85	1.28	1.23
3	A1	612	C	N3-C4	-5.84	1.29	1.33
25	BB	681	G	C5-C6	5.84	1.48	1.42
25	BB	1074	G	C8-N7	-5.84	1.27	1.30
25	BB	1122	G	C2-N2	-5.84	1.28	1.34
25	BB	1663	G	N9-C8	5.84	1.42	1.37
25	BB	2309	A	N7-C5	5.84	1.42	1.39
52	B3	162	ARG	CZ-NH1	-5.84	1.25	1.33
3	A1	254	G	P-O5'	5.84	1.65	1.59
3	A1	262	A	N9-C8	-5.84	1.33	1.37
3	A1	1266	G	C5-C6	5.84	1.48	1.42
13	AL	79	TYR	CG-CD2	5.84	1.46	1.39
25	BB	706	A	N1-C2	-5.84	1.29	1.34
25	BB	959	A	O3'-P	-5.84	1.54	1.61
25	BB	2117	A	C6-N1	-5.84	1.31	1.35
3	A1	321	A	O3'-P	-5.84	1.54	1.61
3	A1	340	U	C5-C6	5.84	1.39	1.34
3	A1	565	U	C4-C5	5.84	1.48	1.43
3	A1	744	C	N3-C4	-5.84	1.29	1.33
3	A1	1343	G	C2'-O2'	5.84	1.49	1.41
3	A1	1496	C	P-O5'	5.84	1.65	1.59
25	BB	550	C	C4-N4	-5.84	1.28	1.33
25	BB	612	G	C5'-C4'	5.84	1.58	1.51
25	BB	1137	G	N7-C5	5.84	1.42	1.39
25	BB	1655	A	N3-C4	5.84	1.38	1.34
25	BB	2474	U	C3'-C2'	-5.84	1.46	1.52
3	A1	934	C	C2'-C1'	-5.84	1.47	1.53
3	A1	1315	U	O3'-P	-5.84	1.54	1.61
3	A1	1515	G	N1-C2	-5.84	1.33	1.37
25	BB	891	G	C5-C4	-5.84	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1205	A	N9-C8	5.84	1.42	1.37
25	BB	1530	G	C8-N7	5.84	1.34	1.30
25	BB	1975	G	N1-C2	-5.84	1.33	1.37
25	BB	2306	C	N3-C4	-5.84	1.29	1.33
25	BB	2714	G	O4'-C1'	5.84	1.49	1.41
25	BB	2773	C	C4'-C3'	5.84	1.59	1.53
15	AO	178	ARG	CZ-NH2	-5.84	1.25	1.33
25	BB	380	G	C5'-C4'	5.84	1.58	1.51
25	BB	658	U	O3'-P	-5.84	1.54	1.61
3	A1	79	G	C2-N3	5.84	1.37	1.32
3	A1	122	G	C2-N2	-5.84	1.28	1.34
3	A1	184	G	C6-O6	-5.84	1.18	1.24
3	A1	865	A	O3'-P	-5.84	1.54	1.61
3	A1	1335	U	O3'-P	-5.84	1.54	1.61
3	A1	1470	U	C3'-C2'	-5.84	1.46	1.52
25	BB	1762	A	C4'-O4'	-5.84	1.38	1.45
25	BB	2012	G	P-O5'	-5.84	1.53	1.59
25	BB	2491	U	C2-N3	5.84	1.41	1.37
25	BB	2650	U	C2-N3	5.84	1.41	1.37
25	BB	2767	C	O3'-P	-5.84	1.54	1.61
25	BB	2883	A	N9-C8	5.84	1.42	1.37
48	BY	21	SER	CA-CB	-5.84	1.44	1.52
3	A1	850	U	C5'-C4'	5.83	1.58	1.51
3	A1	960	U	C5-C6	5.83	1.39	1.34
1	AE	41	U	C5-C6	5.83	1.39	1.34
3	A1	1263	C	C3'-O3'	-5.83	1.33	1.42
3	A1	1330	U	C5-C6	5.83	1.39	1.34
24	BA	98	G	N3-C4	5.83	1.39	1.35
25	BB	49	A	O3'-P	-5.83	1.54	1.61
25	BB	107	G	N3-C4	5.83	1.39	1.35
25	BB	197	A	C4'-C3'	5.83	1.59	1.53
25	BB	216	A	C6-N1	-5.83	1.31	1.35
25	BB	225	C	C3'-C2'	5.83	1.59	1.52
25	BB	292	U	C4'-O4'	-5.83	1.38	1.45
25	BB	956	G	N1-C2	-5.83	1.33	1.37
25	BB	1099	G	C2-N3	-5.83	1.28	1.32
25	BB	1751	U	C5-C6	5.83	1.39	1.34
25	BB	1880	U	C4'-C3'	-5.83	1.46	1.52
25	BB	2759	G	C8-N7	5.83	1.34	1.30
3	A1	229	U	C3'-C2'	5.83	1.59	1.52
3	A1	572	A	C8-N7	-5.83	1.27	1.31
3	A1	666	G	C2-N2	-5.83	1.28	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	872	A	N1-C2	-5.83	1.29	1.34
3	A1	1354	U	P-OP1	-5.83	1.39	1.49
24	BA	39	A	C6-N6	-5.83	1.29	1.33
25	BB	784	G	C5-C6	5.83	1.48	1.42
25	BB	831	G	N9-C8	-5.83	1.33	1.37
25	BB	1293	C	C2-N3	5.83	1.40	1.35
25	BB	1731	G	C4'-C3'	5.83	1.59	1.53
50	B1	40	ARG	CZ-NH2	-5.83	1.25	1.33
1	AA	42	G	N1-C2	-5.83	1.33	1.37
3	A1	237	G	C3'-C2'	5.83	1.59	1.52
3	A1	968	A	C6-N6	-5.83	1.29	1.33
3	A1	1071	C	C5-C6	5.83	1.39	1.34
25	BB	308	G	C3'-C2'	5.83	1.59	1.52
25	BB	749	A	P-O5'	5.83	1.65	1.59
25	BB	2223	G	C6-N1	-5.83	1.35	1.39
3	A1	1219	A	N1-C2	-5.83	1.29	1.34
25	BB	11	C	N1-C2	5.83	1.46	1.40
25	BB	80	G	C4'-C3'	5.83	1.59	1.53
25	BB	365	U	C3'-C2'	5.83	1.59	1.52
25	BB	1157	G	N3-C4	5.83	1.39	1.35
25	BB	1829	A	C5-C6	5.83	1.46	1.41
25	BB	2116	G	P-O5'	-5.83	1.53	1.59
25	BB	2166	U	N1-C2	5.83	1.43	1.38
1	AP	25	C	C4-N4	-5.83	1.28	1.33
1	AE	13	C	N3-C4	-5.83	1.29	1.33
25	BB	1709	U	P-O5'	-5.83	1.53	1.59
3	A1	488	C	C4-N4	-5.83	1.28	1.33
3	A1	506	G	C2-N3	5.83	1.37	1.32
25	BB	387	U	C4'-C3'	5.83	1.59	1.53
25	BB	2228	G	C8-N7	5.83	1.34	1.30
3	A1	690	G	C2-N2	-5.82	1.28	1.34
3	A1	1430	A	C2'-O2'	5.82	1.49	1.41
25	BB	498	G	C2-N2	-5.82	1.28	1.34
25	BB	1140	C	N3-C4	-5.82	1.29	1.33
25	BB	1164	C	N1-C6	5.82	1.40	1.37
25	BB	1349	C	C3'-O3'	-5.82	1.33	1.42
25	BB	1802	A	C5-C4	-5.82	1.34	1.38
25	BB	2277	G	C8-N7	5.82	1.34	1.30
25	BB	2740	A	C6-N1	-5.82	1.31	1.35
25	BB	2772	C	N1-C6	5.82	1.40	1.37
3	A1	211	G	C5-C6	5.82	1.48	1.42
25	BB	793	A	N9-C4	-5.82	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	982	C	C4'-C3'	5.82	1.59	1.53
25	BB	1002	G	N1-C2	-5.82	1.33	1.37
25	BB	1969	A	C2-N3	5.82	1.38	1.33
3	A1	971	G	N7-C5	5.82	1.42	1.39
3	A1	1123	U	C2-N3	-5.82	1.33	1.37
3	A1	1366	C	C2-N3	5.82	1.40	1.35
24	BA	20	G	O3'-P	-5.82	1.54	1.61
24	BA	59	A	C3'-C2'	5.82	1.59	1.52
25	BB	118	A	N7-C5	5.82	1.42	1.39
25	BB	222	A	N7-C5	5.82	1.42	1.39
25	BB	798	G	N9-C4	5.82	1.42	1.38
25	BB	866	A	C4'-O4'	-5.82	1.38	1.45
25	BB	1069	A	C6-N6	-5.82	1.29	1.33
25	BB	1849	G	C5-C6	5.82	1.48	1.42
17	AR	69	ARG	NE-CZ	-5.82	1.25	1.33
25	BB	478	A	C2'-C1'	5.82	1.59	1.53
25	BB	2804	U	C2'-O2'	5.82	1.49	1.41
1	AA	3	G	C2'-O2'	5.82	1.49	1.41
3	A1	515	G	C5-C4	5.82	1.42	1.38
3	A1	847	G	C6-N1	-5.82	1.35	1.39
25	BB	42	A	C5'-C4'	5.82	1.58	1.51
25	BB	301	G	P-O5'	5.82	1.65	1.59
25	BB	690	G	C2'-O2'	-5.82	1.34	1.41
25	BB	1348	C	C4-N4	-5.82	1.28	1.33
25	BB	1761	C	C4'-C3'	5.82	1.59	1.53
25	BB	2045	C	P-O5'	-5.82	1.53	1.59
25	BB	2193	G	C4'-C3'	-5.82	1.46	1.52
25	BB	2656	U	C5-C6	5.82	1.39	1.34
1	AA	53	G	N9-C8	5.82	1.42	1.37
3	A1	710	G	N9-C4	-5.82	1.33	1.38
3	A1	924	C	C4'-C3'	5.82	1.59	1.53
3	A1	1385	G	N7-C5	5.82	1.42	1.39
20	AU	108	ARG	CZ-NH1	-5.82	1.25	1.33
25	BB	8	C	O4'-C1'	5.82	1.49	1.41
25	BB	496	G	C6-O6	-5.82	1.19	1.24
25	BB	669	G	N7-C5	5.82	1.42	1.39
25	BB	828	U	C2'-C1'	5.82	1.59	1.53
25	BB	2148	G	C8-N7	5.82	1.34	1.30
25	BB	2795	C	C2-O2	-5.82	1.19	1.24
1	AE	56	C	C2-O2	-5.81	1.19	1.24
1	AE	62	A	C4'-O4'	-5.81	1.38	1.45
3	A1	1338	G	C6-N1	-5.81	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	495	G	N1-C2	-5.81	1.33	1.37
25	BB	651	G	C2-N2	-5.81	1.28	1.34
25	BB	1277	G	C2'-O2'	5.81	1.49	1.41
25	BB	1594	U	C2-N3	-5.81	1.33	1.37
25	BB	2396	G	P-O5'	5.81	1.65	1.59
25	BB	2506	U	C2-O2	5.81	1.27	1.22
1	AA	61	C	N3-C4	-5.81	1.29	1.33
1	AA	70	C	C2'-C1'	5.81	1.59	1.53
3	A1	1063	C	N3-C4	-5.81	1.29	1.33
25	BB	529	A	C6-N1	-5.81	1.31	1.35
25	BB	567	U	C5-C6	5.81	1.39	1.34
25	BB	677	A	C6-N6	-5.81	1.29	1.33
25	BB	903	C	P-O5'	5.81	1.65	1.59
25	BB	1749	A	C1'-N9	5.81	1.57	1.48
25	BB	2099	U	C2'-O2'	5.81	1.49	1.41
48	BY	83	ARG	CZ-NH2	-5.81	1.25	1.33
1	AP	1	G	C2-N2	-5.81	1.28	1.34
3	A1	869	G	N1-C2	-5.81	1.33	1.37
24	BA	116	G	C5-C6	5.81	1.48	1.42
25	BB	80	G	C2'-C1'	5.81	1.59	1.53
25	BB	238	C	C4-C5	-5.81	1.38	1.43
25	BB	984	A	N9-C8	-5.81	1.33	1.37
25	BB	1834	U	C2'-C1'	5.81	1.59	1.53
25	BB	1873	G	C2-N2	-5.81	1.28	1.34
1	AP	55	U	C4-O4	5.81	1.28	1.23
3	A1	91	U	C2-N3	-5.81	1.33	1.37
3	A1	119	A	P-O5'	5.81	1.65	1.59
3	A1	536	C	N1-C6	-5.81	1.33	1.37
3	A1	1019	A	C5-C4	-5.81	1.34	1.38
3	A1	1453	G	C5-C6	5.81	1.48	1.42
11	AJ	33	TYR	CG-CD1	5.81	1.46	1.39
25	BB	694	U	C4-O4	-5.81	1.19	1.23
25	BB	1910	G	C6-N1	-5.81	1.35	1.39
25	BB	2414	G	C2-N2	-5.81	1.28	1.34
25	BB	2684	U	O3'-P	-5.81	1.54	1.61
1	AA	46	G	N1-C2	-5.81	1.33	1.37
3	A1	911	U	C5-C6	5.81	1.39	1.34
3	A1	1226	C	N1-C2	5.81	1.46	1.40
25	BB	442	G	C4'-C3'	5.81	1.59	1.53
25	BB	1070	A	N9-C4	-5.81	1.34	1.37
25	BB	1501	G	C2-N3	5.81	1.37	1.32
25	BB	1796	U	P-O5'	-5.81	1.53	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	481	G	C2-N2	-5.81	1.28	1.34
3	A1	542	G	N7-C5	5.81	1.42	1.39
25	BB	435	C	P-O5'	-5.81	1.53	1.59
25	BB	1283	G	C5'-C4'	5.81	1.58	1.51
25	BB	1330	C	C1'-N1	5.81	1.57	1.48
25	BB	1673	G	N3-C4	5.81	1.39	1.35
25	BB	1722	A	N3-C4	5.81	1.38	1.34
3	A1	391	G	C5-C4	-5.80	1.34	1.38
3	A1	594	U	N1-C2	5.80	1.43	1.38
3	A1	798	U	N1-C2	-5.80	1.33	1.38
3	A1	1373	G	C2-N2	-5.80	1.28	1.34
3	A1	1503	A	O3'-P	-5.80	1.54	1.61
25	BB	55	G	C6-O6	-5.80	1.19	1.24
25	BB	1286	A	N7-C5	5.80	1.42	1.39
3	A1	700	G	C2'-C1'	5.80	1.59	1.53
3	A1	913	A	C6-N6	-5.80	1.29	1.33
3	A1	1467	C	C4-N4	-5.80	1.28	1.33
25	BB	279	A	C3'-O3'	5.80	1.50	1.42
25	BB	690	G	N1-C2	-5.80	1.33	1.37
25	BB	726	G	C6-N1	-5.80	1.35	1.39
25	BB	1749	A	P-O5'	5.80	1.65	1.59
3	A1	289	G	C5'-C4'	5.80	1.58	1.51
3	A1	604	G	C3'-C2'	5.80	1.59	1.52
3	A1	1023	U	C3'-C2'	5.80	1.59	1.52
25	BB	74	A	C5'-C4'	5.80	1.58	1.51
25	BB	120	U	C4-O4	-5.80	1.19	1.23
25	BB	184	C	C5'-C4'	5.80	1.58	1.51
25	BB	191	A	C6-N1	-5.80	1.31	1.35
25	BB	298	G	C6-N1	-5.80	1.35	1.39
25	BB	354	A	C4'-O4'	-5.80	1.38	1.45
25	BB	745	G	C8-N7	5.80	1.34	1.30
25	BB	809	G	N9-C4	5.80	1.42	1.38
25	BB	1096	A	C6-N6	-5.80	1.29	1.33
25	BB	2331	G	C2-N2	-5.80	1.28	1.34
25	BB	2416	C	C4-N4	-5.80	1.28	1.33
25	BB	2501	C	C5-C6	5.80	1.39	1.34
25	BB	2717	C	C2'-O2'	5.80	1.49	1.41
3	A1	192	A	N1-C2	-5.80	1.29	1.34
3	A1	577	G	C2-N2	-5.80	1.28	1.34
3	A1	615	G	C2-N3	5.80	1.37	1.32
3	A1	873	A	C8-N7	-5.80	1.27	1.31
3	A1	945	G	O4'-C1'	5.80	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1355	G	C5-C4	-5.80	1.34	1.38
25	BB	76	C	C4-N4	-5.80	1.28	1.33
25	BB	200	U	C2-N3	5.80	1.41	1.37
25	BB	808	G	C2-N2	-5.80	1.28	1.34
25	BB	909	A	P-O5'	5.80	1.65	1.59
25	BB	1093	G	C8-N7	-5.80	1.27	1.30
25	BB	1847	A	C5-C4	-5.80	1.34	1.38
3	A1	437	U	C5-C6	5.80	1.39	1.34
3	A1	579	A	N9-C4	5.80	1.41	1.37
25	BB	983	A	C6-N1	-5.80	1.31	1.35
25	BB	2218	G	C1'-N9	5.80	1.57	1.48
25	BB	2290	G	N1-C2	-5.80	1.33	1.37
3	A1	101	A	C8-N7	-5.80	1.27	1.31
3	A1	134	G	C5-C4	-5.80	1.34	1.38
3	A1	874	G	C5-C6	5.80	1.48	1.42
12	AK	50	TYR	CD1-CE1	5.80	1.48	1.39
21	AV	116	ARG	CZ-NH2	-5.80	1.25	1.33
25	BB	85	G	C6-O6	-5.80	1.19	1.24
25	BB	332	A	C4'-C3'	5.80	1.59	1.53
25	BB	1003	G	C5'-C4'	5.80	1.58	1.51
25	BB	1333	G	C6-N1	-5.80	1.35	1.39
25	BB	1413	A	C5-C6	5.80	1.46	1.41
25	BB	1540	G	O3'-P	5.80	1.68	1.61
25	BB	1581	G	N9-C4	5.80	1.42	1.38
25	BB	1759	A	C4'-O4'	-5.80	1.38	1.45
25	BB	2246	G	N9-C8	5.80	1.42	1.37
3	A1	109	A	C5-C4	5.79	1.42	1.38
3	A1	823	C	O3'-P	-5.79	1.54	1.61
3	A1	1424	U	N3-C4	-5.79	1.33	1.38
3	A1	1459	G	C5-C6	5.79	1.48	1.42
25	BB	947	A	N1-C2	5.79	1.39	1.34
25	BB	2133	G	C2-N2	-5.79	1.28	1.34
3	A1	127	G	N9-C8	-5.79	1.33	1.37
3	A1	243	A	O5'-C5'	-5.79	1.33	1.42
3	A1	299	G	N7-C5	5.79	1.42	1.39
3	A1	470	C	C5-C6	5.79	1.39	1.34
3	A1	1052	U	C5-C6	5.79	1.39	1.34
3	A1	1061	G	N9-C8	5.79	1.42	1.37
3	A1	1153	G	C5-C4	-5.79	1.34	1.38
3	A1	1323	G	C2-N3	-5.79	1.28	1.32
25	BB	174	U	C3'-C2'	5.79	1.59	1.52
25	BB	759	G	C6-O6	-5.79	1.19	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	781	A	C5'-C4'	5.79	1.58	1.51
25	BB	1793	C	N3-C4	-5.79	1.29	1.33
25	BB	2014	A	C8-N7	-5.79	1.27	1.31
25	BB	2162	G	O3'-P	-5.79	1.54	1.61
25	BB	2490	G	N1-C2	-5.79	1.33	1.37
25	BB	2834	G	C6-O6	-5.79	1.19	1.24
25	BB	2838	G	C3'-C2'	5.79	1.59	1.52
25	BB	2847	U	C4'-C3'	5.79	1.59	1.53
54	B5	64	ARG	CZ-NH1	-5.79	1.25	1.33
3	A1	621	A	C5-C6	5.79	1.46	1.41
3	A1	992	U	C3'-C2'	-5.79	1.46	1.52
3	A1	1139	G	O3'-P	-5.79	1.54	1.61
25	BB	111	A	O3'-P	5.79	1.68	1.61
25	BB	556	A	O3'-P	-5.79	1.54	1.61
25	BB	572	A	N1-C2	-5.79	1.29	1.34
25	BB	661	A	N9-C8	-5.79	1.33	1.37
25	BB	796	C	C4-N4	-5.79	1.28	1.33
25	BB	1318	U	C5'-C4'	5.79	1.58	1.51
25	BB	1337	G	C8-N7	-5.79	1.27	1.30
25	BB	1909	C	C5'-C4'	5.79	1.58	1.51
25	BB	1962	C	C5-C6	5.79	1.39	1.34
25	BB	2234	G	O4'-C1'	5.79	1.49	1.41
25	BB	2484	G	O3'-P	-5.79	1.54	1.61
25	BB	2643	G	C2'-C1'	5.79	1.59	1.53
25	BB	2684	U	C4'-O4'	-5.79	1.38	1.45
3	A1	737	C	C5-C6	5.79	1.39	1.34
3	A1	1488	G	C2-N2	-5.79	1.28	1.34
25	BB	12	U	C2-O2	5.79	1.27	1.22
25	BB	1371	G	N3-C4	5.79	1.39	1.35
25	BB	1692	U	C3'-C2'	5.79	1.59	1.52
25	BB	2195	U	C2-N3	-5.79	1.33	1.37
25	BB	2497	A	C6-N6	-5.79	1.29	1.33
25	BB	2818	U	N1-C6	5.79	1.43	1.38
3	A1	497	G	C5-C6	5.79	1.48	1.42
3	A1	887	G	C5'-C4'	5.79	1.58	1.51
3	A1	905	U	C2'-C1'	5.79	1.59	1.53
3	A1	1014	A	C6-N1	-5.79	1.31	1.35
25	BB	893	C	C4-C5	-5.79	1.38	1.43
25	BB	1252	G	C2-N3	-5.79	1.28	1.32
25	BB	1754	A	C2'-O2'	5.79	1.49	1.41
25	BB	2081	U	C4'-O4'	-5.79	1.38	1.45
25	BB	2483	C	N1-C2	5.79	1.46	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2794	C	C4'-C3'	-5.79	1.46	1.52
22	AW	121	ARG	CZ-NH2	-5.79	1.25	1.33
25	BB	297	G	C5'-C4'	5.79	1.58	1.51
25	BB	1150	C	C4-N4	-5.79	1.28	1.33
25	BB	1681	G	C3'-C2'	5.79	1.59	1.52
25	BB	2011	U	O3'-P	5.79	1.68	1.61
3	A1	142	G	N3-C4	5.79	1.39	1.35
3	A1	1244	G	N7-C5	5.79	1.42	1.39
3	A1	1293	C	C3'-C2'	5.79	1.59	1.52
25	BB	376	G	N1-C2	-5.79	1.33	1.37
25	BB	728	G	C5-C6	5.79	1.48	1.42
25	BB	1474	U	C3'-C2'	5.79	1.59	1.52
25	BB	2537	U	C4-O4	-5.79	1.19	1.23
25	BB	2719	G	C2-N2	-5.79	1.28	1.34
25	BB	2723	C	C5'-C4'	5.79	1.58	1.51
25	BB	2849	U	C3'-C2'	5.79	1.59	1.52
3	A1	449	G	C6-N1	-5.78	1.35	1.39
3	A1	973	G	C5-C4	5.78	1.42	1.38
3	A1	1419	G	O3'-P	-5.78	1.54	1.61
24	BA	103	U	C4-C5	5.78	1.48	1.43
25	BB	20	C	P-O5'	5.78	1.65	1.59
25	BB	251	A	C5-C4	5.78	1.42	1.38
25	BB	732	C	C2-N3	-5.78	1.31	1.35
25	BB	1791	A	N1-C2	-5.78	1.29	1.34
25	BB	2250	G	C4'-C3'	5.78	1.59	1.53
25	BB	2841	C	C4'-C3'	5.78	1.59	1.53
3	A1	36	C	C4-C5	-5.78	1.38	1.43
25	BB	756	A	O3'-P	-5.78	1.54	1.61
25	BB	1484	U	O3'-P	-5.78	1.54	1.61
25	BB	2117	A	N3-C4	-5.78	1.31	1.34
25	BB	2284	A	N1-C2	-5.78	1.29	1.34
3	A1	94	G	N1-C2	-5.78	1.33	1.37
3	A1	441	A	N9-C8	5.78	1.42	1.37
3	A1	727	G	N1-C2	-5.78	1.33	1.37
3	A1	824	G	C8-N7	-5.78	1.27	1.30
3	A1	951	G	C2'-C1'	5.78	1.59	1.53
3	A1	1172	C	P-O5'	5.78	1.65	1.59
3	A1	1220	G	N7-C5	5.78	1.42	1.39
3	A1	1341	U	C4-C5	-5.78	1.38	1.43
9	AH	76	ARG	CZ-NH2	-5.78	1.25	1.33
19	AT	67	PRO	N-CD	5.78	1.55	1.47
25	BB	9	G	O5'-C5'	-5.78	1.33	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	88	G	C2-N2	-5.78	1.28	1.34
25	BB	457	A	C4'-C3'	-5.78	1.46	1.52
25	BB	914	G	C2'-C1'	-5.78	1.47	1.53
25	BB	942	G	C2-N2	-5.78	1.28	1.34
25	BB	1400	U	C2-O2	-5.78	1.17	1.22
25	BB	1401	G	N3-C4	5.78	1.39	1.35
25	BB	1950	G	C4'-C3'	5.78	1.59	1.53
25	BB	2264	C	N3-C4	-5.78	1.29	1.33
25	BB	2761	A	N3-C4	5.78	1.38	1.34
3	A1	1007	U	N1-C2	5.78	1.43	1.38
25	BB	114	U	N1-C2	5.78	1.43	1.38
25	BB	1463	C	C4-N4	-5.78	1.28	1.33
25	BB	1601	G	C5-C4	-5.78	1.34	1.38
25	BB	1669	A	O3'-P	-5.78	1.54	1.61
25	BB	1680	U	C4'-O4'	-5.78	1.38	1.45
3	A1	598	U	C2'-C1'	-5.78	1.47	1.53
3	A1	997	U	C4-O4	5.78	1.28	1.23
3	A1	1342	C	O3'-P	-5.78	1.54	1.61
25	BB	52	A	C2'-O2'	5.78	1.49	1.41
25	BB	168	G	C6-N1	-5.78	1.35	1.39
25	BB	331	C	C5'-C4'	5.78	1.58	1.51
25	BB	578	G	C5-C4	5.78	1.42	1.38
25	BB	685	A	C4'-C3'	-5.78	1.46	1.52
25	BB	963	U	C4'-C3'	5.78	1.59	1.53
25	BB	1172	C	C3'-C2'	5.78	1.59	1.52
25	BB	1354	A	C4'-C3'	-5.78	1.46	1.52
25	BB	1371	G	C2-N2	-5.78	1.28	1.34
25	BB	1617	C	C5-C6	5.78	1.39	1.34
25	BB	1953	A	N7-C5	5.78	1.42	1.39
2	AM	17	U	C4-O4	-5.78	1.19	1.23
3	A1	214	C	C5-C6	5.78	1.39	1.34
3	A1	1002	G	O3'-P	-5.78	1.54	1.61
3	A1	1263	C	N1-C6	-5.78	1.33	1.37
3	A1	1307	U	C4'-O4'	-5.78	1.38	1.45
3	A1	1388	C	N3-C4	-5.78	1.29	1.33
25	BB	394	C	C5-C6	5.78	1.39	1.34
25	BB	662	G	C3'-C2'	5.78	1.59	1.52
25	BB	1207	C	C5-C6	5.78	1.39	1.34
25	BB	1565	C	C2-N3	5.78	1.40	1.35
25	BB	2617	U	C4'-O4'	-5.78	1.38	1.45
25	BB	866	A	C6-N1	-5.77	1.31	1.35
25	BB	1559	U	C2-N3	-5.77	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	73	A	O4'-C1'	5.77	1.49	1.41
3	A1	661	G	C5-C6	5.77	1.48	1.42
3	A1	794	A	C3'-C2'	5.77	1.59	1.52
3	A1	921	U	C5'-C4'	5.77	1.58	1.51
25	BB	2373	G	C5-C6	5.77	1.48	1.42
25	BB	2436	G	O4'-C1'	5.77	1.49	1.41
25	BB	2513	A	C6-N6	-5.77	1.29	1.33
25	BB	2730	C	N3-C4	-5.77	1.29	1.33
3	A1	1282	C	C5'-C4'	5.77	1.58	1.51
3	A1	1337	G	C5-C6	5.77	1.48	1.42
25	BB	156	A	O3'-P	-5.77	1.54	1.61
25	BB	2820	A	O3'-P	5.77	1.68	1.61
1	AA	3	G	N9-C4	-5.77	1.33	1.38
3	A1	479	U	C2'-C1'	5.77	1.59	1.53
3	A1	1229	A	N7-C5	5.77	1.42	1.39
3	A1	1456	A	N3-C4	5.77	1.38	1.34
18	AS	19	ARG	CZ-NH2	-5.77	1.25	1.33
25	BB	203	A	P-O5'	-5.77	1.53	1.59
25	BB	349	U	C2'-C1'	5.77	1.59	1.53
25	BB	724	U	C4-O4	-5.77	1.19	1.23
25	BB	879	G	C4'-C3'	5.77	1.59	1.53
25	BB	1157	G	C5-C6	5.77	1.48	1.42
25	BB	1166	G	C5-C4	-5.77	1.34	1.38
3	A1	140	U	O3'-P	-5.77	1.54	1.61
3	A1	310	G	N1-C2	-5.77	1.33	1.37
3	A1	591	U	C4-C5	-5.77	1.38	1.43
3	A1	1285	A	C3'-C2'	-5.77	1.46	1.52
3	A1	1331	G	N9-C8	-5.77	1.33	1.37
25	BB	821	A	O3'-P	-5.77	1.54	1.61
25	BB	1102	C	O4'-C1'	5.77	1.49	1.41
25	BB	1694	C	C2'-O2'	-5.77	1.34	1.41
25	BB	1919	A	O3'-P	-5.77	1.54	1.61
28	BE	16	GLY	N-CA	5.77	1.54	1.46
3	A1	526	C	N3-C4	-5.77	1.29	1.33
3	A1	1167	A	N7-C5	-5.77	1.35	1.39
25	BB	976	G	C6-N1	-5.77	1.35	1.39
25	BB	1286	A	C6-N6	-5.77	1.29	1.33
25	BB	1321	A	C6-N1	-5.77	1.31	1.35
25	BB	2329	U	C5'-C4'	5.77	1.58	1.51
1	AA	14	A	N3-C4	5.76	1.38	1.34
1	AA	45	G	N7-C5	5.76	1.42	1.39
1	AA	50	U	P-O5'	5.76	1.65	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	55	A	C6-N1	5.76	1.39	1.35
3	A1	1171	A	N7-C5	5.76	1.42	1.39
3	A1	1249	C	C4-C5	-5.76	1.38	1.43
25	BB	311	A	P-O5'	-5.76	1.53	1.59
25	BB	596	U	C2-N3	5.76	1.41	1.37
25	BB	651	G	P-O5'	-5.76	1.53	1.59
25	BB	1086	A	N9-C4	-5.76	1.34	1.37
25	BB	1376	C	N1-C6	-5.76	1.33	1.37
25	BB	1903	G	C2-N2	-5.76	1.28	1.34
25	BB	2035	G	O3'-P	-5.76	1.54	1.61
25	BB	2791	G	C5-C4	-5.76	1.34	1.38
25	BB	2898	U	C4-O4	5.76	1.28	1.23
3	A1	959	A	O3'-P	5.76	1.68	1.61
25	BB	389	G	C6-N1	-5.76	1.35	1.39
1	AA	33	U	C4'-O4'	-5.76	1.38	1.45
3	A1	740	U	C3'-O3'	5.76	1.50	1.42
3	A1	1312	G	O3'-P	-5.76	1.54	1.61
3	A1	1414	U	C2-N3	-5.76	1.33	1.37
3	A1	1494	G	C2-N3	5.76	1.37	1.32
25	BB	533	G	N7-C5	5.76	1.42	1.39
25	BB	561	G	O3'-P	-5.76	1.54	1.61
25	BB	746	U	C2-O2	5.76	1.27	1.22
25	BB	950	G	C2-N2	-5.76	1.28	1.34
25	BB	1246	A	C1'-N9	5.76	1.57	1.48
25	BB	1517	G	C2-N2	-5.76	1.28	1.34
25	BB	2015	A	C5-C4	-5.76	1.34	1.38
25	BB	2037	A	N3-C4	5.76	1.38	1.34
25	BB	2566	A	C5-C6	5.76	1.46	1.41
25	BB	2726	A	C6-N1	-5.76	1.31	1.35
3	A1	159	G	N3-C4	5.76	1.39	1.35
3	A1	581	G	C8-N7	-5.76	1.27	1.30
3	A1	683	G	C2-N2	-5.76	1.28	1.34
3	A1	1070	U	C2-N3	5.76	1.41	1.37
3	A1	1399	C	N3-C4	-5.76	1.29	1.33
25	BB	346	A	N9-C8	5.76	1.42	1.37
25	BB	1039	A	C4'-O4'	-5.76	1.38	1.45
25	BB	1890	A	C4'-O4'	-5.76	1.38	1.45
25	BB	1891	G	C2'-C1'	5.76	1.59	1.53
25	BB	2388	A	N9-C8	-5.76	1.33	1.37
43	BT	39	ARG	NE-CZ	-5.76	1.25	1.33
25	BB	1874	C	C2'-O2'	5.76	1.49	1.41
25	BB	2227	A	C8-N7	-5.76	1.27	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2721	A	C4'-O4'	-5.76	1.38	1.45
1	AA	73	A	C4'-C3'	5.76	1.59	1.53
3	A1	16	A	C5-C4	-5.76	1.34	1.38
3	A1	114	U	C4'-C3'	-5.76	1.46	1.52
3	A1	136	C	C4'-O4'	-5.76	1.38	1.45
3	A1	376	G	C5-C6	5.76	1.48	1.42
3	A1	539	A	C4'-C3'	5.76	1.59	1.53
3	A1	1280	A	C2-N3	-5.76	1.28	1.33
3	A1	1483	A	C5-C4	-5.76	1.34	1.38
3	A1	1509	C	O4'-C1'	5.76	1.49	1.41
25	BB	16	C	C5'-C4'	5.76	1.58	1.51
25	BB	1595	C	N1-C2	5.76	1.46	1.40
25	BB	1679	A	N3-C4	5.76	1.38	1.34
25	BB	1953	A	C6-N1	-5.76	1.31	1.35
25	BB	2043	C	C4-N4	-5.76	1.28	1.33
25	BB	2195	U	C5'-C4'	5.76	1.58	1.51
37	BN	193	GLU	CG-CD	5.76	1.60	1.51
2	AM	15	U	C5'-C4'	5.75	1.58	1.51
3	A1	881	G	C3'-C2'	5.75	1.59	1.52
24	BA	33	G	C2-N2	-5.75	1.28	1.34
25	BB	55	G	C2-N2	-5.75	1.28	1.34
25	BB	2737	G	C5-C4	5.75	1.42	1.38
3	A1	377	G	C2'-O2'	5.75	1.49	1.41
3	A1	1105	A	C5-C4	-5.75	1.34	1.38
3	A1	1177	G	C4'-O4'	-5.75	1.38	1.45
25	BB	711	G	C5-C6	5.75	1.48	1.42
25	BB	1389	G	C2-N2	-5.75	1.28	1.34
25	BB	1802	A	N1-C2	-5.75	1.29	1.34
25	BB	2131	U	C2-N3	-5.75	1.33	1.37
25	BB	2219	U	C4'-C3'	5.75	1.59	1.53
25	BB	2269	G	N9-C8	5.75	1.41	1.37
24	BA	104	A	N7-C5	5.75	1.42	1.39
25	BB	17	G	N9-C8	5.75	1.41	1.37
25	BB	293	U	C4-C5	5.75	1.48	1.43
25	BB	714	U	C2'-C1'	5.75	1.59	1.53
25	BB	956	G	C5'-C4'	5.75	1.58	1.51
25	BB	1127	A	C4'-O4'	-5.75	1.38	1.45
25	BB	1700	A	C2'-C1'	5.75	1.59	1.53
25	BB	2467	C	N3-C4	-5.75	1.29	1.33
25	BB	2680	U	C5'-C4'	5.75	1.58	1.51
25	BB	2862	G	C6-N1	-5.75	1.35	1.39
48	BY	46	ARG	CZ-NH1	-5.75	1.25	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	844	A	N9-C8	5.75	1.42	1.37
25	BB	1011	G	N1-C2	-5.75	1.33	1.37
25	BB	1066	U	N1-C2	-5.75	1.33	1.38
25	BB	1761	C	C2-N3	-5.75	1.31	1.35
25	BB	2310	C	P-O5'	-5.75	1.54	1.59
25	BB	2862	G	O3'-P	-5.75	1.54	1.61
3	A1	109	A	N9-C4	5.75	1.41	1.37
3	A1	330	C	N1-C2	5.75	1.45	1.40
3	A1	537	G	C5-C4	-5.75	1.34	1.38
3	A1	573	A	C2-N3	-5.75	1.28	1.33
3	A1	815	A	N3-C4	5.75	1.38	1.34
3	A1	1001	C	C2'-C1'	-5.75	1.47	1.53
3	A1	1513	A	P-O5'	-5.75	1.54	1.59
18	AS	86	GLY	N-CA	5.75	1.54	1.46
25	BB	110	G	N7-C5	5.75	1.42	1.39
25	BB	156	A	C5-C4	-5.75	1.34	1.38
25	BB	211	C	C4-N4	-5.75	1.28	1.33
25	BB	226	A	C3'-O3'	5.75	1.50	1.42
25	BB	631	A	C8-N7	5.75	1.35	1.31
25	BB	1356	G	P-O5'	5.75	1.65	1.59
25	BB	1499	C	C4-N4	-5.75	1.28	1.33
25	BB	2137	U	P-O5'	5.75	1.65	1.59
25	BB	2773	C	N3-C4	-5.75	1.29	1.33
3	A1	338	A	C2'-C1'	-5.75	1.47	1.53
3	A1	419	C	C4'-O4'	-5.75	1.38	1.45
3	A1	955	U	C3'-C2'	5.75	1.59	1.52
3	A1	1035	A	C8-N7	5.75	1.35	1.31
3	A1	1310	G	C5'-C4'	5.75	1.58	1.51
3	A1	1319	A	C2'-C1'	5.75	1.59	1.53
8	AG	51	PRO	N-CD	-5.75	1.39	1.47
25	BB	329	G	C5-C6	5.75	1.48	1.42
25	BB	578	G	C2-N2	-5.75	1.28	1.34
25	BB	1494	A	N1-C2	-5.75	1.29	1.34
25	BB	603	A	C2-N3	-5.75	1.28	1.33
25	BB	697	G	O3'-P	-5.75	1.54	1.61
25	BB	1343	G	C3'-C2'	5.75	1.59	1.52
25	BB	1739	A	C5-C4	-5.75	1.34	1.38
25	BB	2453	A	C6-N1	-5.75	1.31	1.35
25	BB	2556	C	C5'-C4'	5.75	1.58	1.51
3	A1	290	C	C4-N4	-5.74	1.28	1.33
25	BB	1629	U	N3-C4	-5.74	1.33	1.38
25	BB	1786	A	O4'-C1'	5.74	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2199	A	C4'-C3'	5.74	1.59	1.53
3	A1	247	G	C5-C4	5.74	1.42	1.38
3	A1	774	G	C2-N2	-5.74	1.28	1.34
3	A1	1288	A	N9-C4	5.74	1.41	1.37
25	BB	1120	G	C5-C6	5.74	1.48	1.42
25	BB	2337	G	C3'-C2'	-5.74	1.46	1.52
3	A1	383	A	N9-C4	5.74	1.41	1.37
3	A1	417	G	C5-C6	5.74	1.48	1.42
3	A1	482	A	N9-C8	-5.74	1.33	1.37
3	A1	823	C	N1-C6	5.74	1.40	1.37
3	A1	865	A	N7-C5	5.74	1.42	1.39
3	A1	978	A	C6-N6	-5.74	1.29	1.33
3	A1	1046	A	P-O5'	5.74	1.65	1.59
3	A1	1245	C	C4'-C3'	5.74	1.59	1.53
3	A1	1484	C	N1-C2	5.74	1.45	1.40
25	BB	362	A	P-O5'	5.74	1.65	1.59
25	BB	801	G	C5-C6	5.74	1.48	1.42
25	BB	1329	U	C5-C6	5.74	1.39	1.34
25	BB	2192	U	C4'-O4'	-5.74	1.38	1.45
3	A1	110	C	O3'-P	5.74	1.68	1.61
3	A1	383	A	C8-N7	5.74	1.35	1.31
3	A1	428	G	N7-C5	5.74	1.42	1.39
3	A1	528	C	C2'-C1'	-5.74	1.47	1.53
3	A1	1080	A	N7-C5	5.74	1.42	1.39
3	A1	1279	G	C2-N3	5.74	1.37	1.32
3	A1	1503	A	N7-C5	5.74	1.42	1.39
25	BB	241	A	N3-C4	5.74	1.38	1.34
25	BB	900	A	C4'-O4'	-5.74	1.38	1.45
25	BB	1133	A	C6-N6	-5.74	1.29	1.33
25	BB	1391	U	N1-C2	5.74	1.43	1.38
25	BB	1939	U	O4'-C1'	5.74	1.49	1.41
25	BB	2526	G	N1-C2	-5.74	1.33	1.37
25	BB	2543	G	N1-C2	-5.74	1.33	1.37
25	BB	2822	G	N9-C8	5.74	1.41	1.37
1	AP	67	A	N9-C4	-5.74	1.34	1.37
3	A1	688	G	N1-C2	-5.74	1.33	1.37
3	A1	800	G	C8-N7	5.74	1.34	1.30
3	A1	869	G	N7-C5	5.74	1.42	1.39
15	AO	71	ARG	CZ-NH1	-5.74	1.25	1.33
25	BB	1324	G	C6-N1	-5.74	1.35	1.39
25	BB	1413	A	N9-C4	5.74	1.41	1.37
25	BB	1648	U	C2'-O2'	5.74	1.49	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1975	G	P-O5'	-5.74	1.54	1.59
25	BB	2692	G	C6-N1	5.74	1.43	1.39
25	BB	2732	G	C2'-C1'	-5.74	1.47	1.53
1	AE	29	A	N9-C8	-5.74	1.33	1.37
1	AE	52	U	C4'-O4'	-5.74	1.38	1.45
3	A1	578	C	C4-N4	-5.74	1.28	1.33
3	A1	979	C	C4-N4	-5.74	1.28	1.33
3	A1	1011	C	N1-C2	5.74	1.45	1.40
3	A1	1080	A	C6-N6	-5.74	1.29	1.33
3	A1	1398	A	C6-N1	-5.74	1.31	1.35
24	BA	80	U	O4'-C1'	5.74	1.49	1.41
25	BB	161	A	C6-N6	-5.74	1.29	1.33
25	BB	269	C	C5'-C4'	5.74	1.58	1.51
25	BB	816	C	N1-C6	-5.74	1.33	1.37
25	BB	1163	G	C4'-O4'	-5.74	1.38	1.45
25	BB	1721	G	C2-N2	-5.74	1.28	1.34
25	BB	1775	U	P-O5'	5.74	1.65	1.59
25	BB	2073	C	C4'-O4'	-5.74	1.38	1.45
25	BB	2086	U	C4'-C3'	-5.74	1.46	1.52
25	BB	2490	G	N7-C5	-5.74	1.35	1.39
3	A1	54	C	N3-C4	-5.73	1.29	1.33
3	A1	293	G	C8-N7	5.73	1.34	1.30
25	BB	55	G	N1-C2	-5.73	1.33	1.37
25	BB	104	A	N7-C5	5.73	1.42	1.39
25	BB	437	U	C4'-O4'	5.73	1.53	1.45
25	BB	1305	C	N1-C6	5.73	1.40	1.37
25	BB	1803	A	N9-C4	-5.73	1.34	1.37
3	A1	708	C	O4'-C1'	5.73	1.49	1.41
3	A1	808	C	C2-N3	-5.73	1.31	1.35
3	A1	969	A	N1-C2	-5.73	1.29	1.34
3	A1	1130	A	P-O5'	5.73	1.65	1.59
25	BB	998	C	C5'-C4'	5.73	1.58	1.51
25	BB	1623	G	C5'-C4'	5.73	1.58	1.51
25	BB	2007	U	N1-C2	5.73	1.43	1.38
25	BB	2256	G	C5-C6	5.73	1.48	1.42
25	BB	2389	G	C5'-C4'	5.73	1.58	1.51
25	BB	2742	G	C6-N1	-5.73	1.35	1.39
25	BB	818	G	C2-N2	-5.73	1.28	1.34
25	BB	1128	G	N7-C5	5.73	1.42	1.39
25	BB	2220	U	C4'-C3'	5.73	1.59	1.53
25	BB	2683	C	C5-C6	5.73	1.39	1.34
25	BB	175	G	P-O5'	5.73	1.65	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1391	U	N1-C6	5.73	1.43	1.38
25	BB	1736	U	C4-C5	5.73	1.48	1.43
25	BB	1804	C	P-O5'	-5.73	1.54	1.59
25	BB	2126	A	C5-C4	-5.73	1.34	1.38
25	BB	2337	G	N3-C4	5.73	1.39	1.35
1	AA	15	G	P-O5'	-5.73	1.54	1.59
1	AP	59	U	C2-O2	5.73	1.27	1.22
3	A1	468	A	O3'-P	-5.73	1.54	1.61
3	A1	744	C	P-O5'	-5.73	1.54	1.59
3	A1	780	A	C3'-C2'	5.73	1.59	1.52
3	A1	1207	G	C4'-C3'	-5.73	1.46	1.52
25	BB	610	C	C4-N4	-5.73	1.28	1.33
25	BB	1169	A	N9-C4	-5.73	1.34	1.37
25	BB	1295	C	C5'-C4'	5.73	1.58	1.51
25	BB	1664	A	N9-C8	5.73	1.42	1.37
25	BB	1855	U	C4-C5	5.73	1.48	1.43
25	BB	2576	G	N9-C8	5.73	1.41	1.37
3	A1	568	G	P-O5'	-5.73	1.54	1.59
3	A1	1032	G	N9-C4	5.73	1.42	1.38
3	A1	1468	A	C5-C6	5.73	1.46	1.41
25	BB	681	G	O3'-P	-5.73	1.54	1.61
25	BB	2506	U	C5-C6	5.73	1.39	1.34
25	BB	2584	U	N1-C2	5.73	1.43	1.38
25	BB	2832	U	O3'-P	-5.73	1.54	1.61
3	A1	134	G	N1-C2	-5.72	1.33	1.37
3	A1	423	G	C3'-C2'	5.72	1.59	1.52
3	A1	1519	A	C6-N1	-5.72	1.31	1.35
3	A1	1529	G	C6-N1	-5.72	1.35	1.39
8	AG	64	ARG	CZ-NH2	-5.72	1.25	1.33
25	BB	846	U	C2-N3	-5.72	1.33	1.37
25	BB	1302	A	C8-N7	5.72	1.35	1.31
25	BB	1315	C	C4'-O4'	-5.72	1.38	1.45
25	BB	1814	G	C2-N2	-5.72	1.28	1.34
25	BB	2153	C	O5'-C5'	-5.72	1.33	1.42
25	BB	2679	A	C6-N1	-5.72	1.31	1.35
25	BB	2858	C	C4-N4	-5.72	1.28	1.33
34	BK	79	ARG	CZ-NH1	-5.72	1.25	1.33
1	AP	38	A	N1-C2	-5.72	1.29	1.34
3	A1	830	G	C6-O6	5.72	1.29	1.24
23	AX	31	ARG	CZ-NH2	-5.72	1.25	1.33
25	BB	732	C	C5-C6	5.72	1.39	1.34
25	BB	1000	A	P-O5'	-5.72	1.54	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1169	A	C4'-C3'	-5.72	1.46	1.52
25	BB	1499	C	C5-C6	5.72	1.39	1.34
25	BB	1525	A	C8-N7	-5.72	1.27	1.31
25	BB	1763	G	C5-C6	5.72	1.48	1.42
25	BB	2052	A	C5'-C4'	5.72	1.58	1.51
25	BB	2192	U	C5-C6	5.72	1.39	1.34
3	A1	1111	A	C6-N1	-5.72	1.31	1.35
25	BB	505	A	N7-C5	5.72	1.42	1.39
25	BB	919	U	C5'-C4'	5.72	1.58	1.51
3	A1	513	C	C4-N4	-5.72	1.28	1.33
3	A1	769	G	C5-C4	5.72	1.42	1.38
25	BB	838	C	C5-C6	-5.72	1.29	1.34
25	BB	909	A	N1-C2	-5.72	1.29	1.34
25	BB	1169	A	C2'-C1'	5.72	1.59	1.53
25	BB	2207	C	N3-C4	-5.72	1.29	1.33
25	BB	2439	A	C2'-C1'	-5.72	1.47	1.53
25	BB	2484	G	C5-C6	5.72	1.48	1.42
40	BQ	52	ARG	NE-CZ	-5.72	1.25	1.33
3	A1	1228	C	C4'-C3'	5.72	1.59	1.53
19	AT	59	TYR	CE2-CZ	5.72	1.46	1.38
25	BB	1075	C	C2-N3	5.72	1.40	1.35
25	BB	1532	A	N3-C4	5.72	1.38	1.34
25	BB	2600	A	C8-N7	-5.72	1.27	1.31
1	AP	56	C	P-O5'	-5.72	1.54	1.59
3	A1	630	A	C8-N7	5.72	1.35	1.31
3	A1	650	G	N3-C4	5.72	1.39	1.35
3	A1	759	A	N7-C5	5.72	1.42	1.39
3	A1	1013	G	C8-N7	-5.72	1.27	1.30
3	A1	1188	A	N9-C8	-5.72	1.33	1.37
25	BB	599	A	C6-N1	-5.72	1.31	1.35
25	BB	1092	C	C5'-C4'	5.72	1.58	1.51
25	BB	1245	G	N3-C4	5.72	1.39	1.35
25	BB	1417	C	N1-C6	-5.72	1.33	1.37
25	BB	1430	G	C2'-C1'	5.72	1.59	1.53
25	BB	2511	U	N3-C4	-5.72	1.33	1.38
1	AP	58	A	C4'-O4'	-5.71	1.38	1.45
3	A1	1324	A	P-O5'	-5.71	1.54	1.59
3	A1	1479	C	O3'-P	-5.71	1.54	1.61
25	BB	259	G	P-O5'	-5.71	1.54	1.59
25	BB	512	G	P-O5'	5.71	1.65	1.59
25	BB	775	G	C2-N2	-5.71	1.28	1.34
25	BB	1475	G	C2-N2	-5.71	1.28	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1537	G	N3-C4	-5.71	1.31	1.35
25	BB	2060	A	C8-N7	-5.71	1.27	1.31
25	BB	2217	G	C5-C6	5.71	1.48	1.42
25	BB	2685	G	N7-C5	5.71	1.42	1.39
1	AE	76	A	C5'-C4'	5.71	1.58	1.51
3	A1	59	A	C4'-O4'	-5.71	1.38	1.45
3	A1	1154	G	C2'-C1'	-5.71	1.47	1.53
3	A1	1157	A	O3'-P	-5.71	1.54	1.61
5	AC	12	ARG	CZ-NH1	-5.71	1.25	1.33
25	BB	51	G	C2-N2	-5.71	1.28	1.34
25	BB	698	C	N1-C6	5.71	1.40	1.37
25	BB	1131	G	C4'-C3'	5.71	1.59	1.53
25	BB	1939	U	N1-C2	5.71	1.43	1.38
2	AM	11	U	C2-N3	5.71	1.41	1.37
2	AM	20	U	C5-C6	5.71	1.39	1.34
24	BA	31	C	C1'-N1	5.71	1.57	1.48
24	BA	50	A	N9-C8	-5.71	1.33	1.37
24	BA	72	G	C2-N2	-5.71	1.28	1.34
25	BB	877	A	C5-C4	-5.71	1.34	1.38
25	BB	1228	G	C2'-C1'	5.71	1.59	1.53
25	BB	1717	A	C4'-O4'	-5.71	1.38	1.45
25	BB	1858	A	C2'-C1'	-5.71	1.47	1.53
25	BB	1928	A	N7-C5	5.71	1.42	1.39
55	B6	116	ARG	CZ-NH2	-5.71	1.25	1.33
3	A1	189	A	N1-C2	-5.71	1.29	1.34
3	A1	190	A	C6-N6	-5.71	1.29	1.33
3	A1	206	C	C2-N3	-5.71	1.31	1.35
3	A1	1473	G	N3-C4	-5.71	1.31	1.35
6	AD	13	ARG	CZ-NH2	-5.71	1.25	1.33
25	BB	1757	A	C4'-C3'	5.71	1.59	1.53
1	AE	39	U	C3'-O3'	-5.71	1.34	1.42
3	A1	391	G	O3'-P	-5.71	1.54	1.61
3	A1	544	G	C6-N1	-5.71	1.35	1.39
3	A1	830	G	C5-C6	5.71	1.48	1.42
3	A1	928	G	C8-N7	5.71	1.34	1.30
3	A1	1383	C	C4'-O4'	-5.71	1.38	1.45
25	BB	113	U	N1-C2	5.71	1.43	1.38
25	BB	538	A	P-O5'	5.71	1.65	1.59
25	BB	814	C	N3-C4	-5.71	1.29	1.33
25	BB	1306	C	C5-C6	5.71	1.39	1.34
25	BB	1358	G	C8-N7	-5.71	1.27	1.30
25	BB	1365	A	N3-C4	5.71	1.38	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2061	G	C2-N3	-5.71	1.28	1.32
25	BB	2102	G	N1-C2	-5.71	1.33	1.37
25	BB	2324	U	O3'-P	-5.71	1.54	1.61
54	B5	130	GLY	CA-C	5.71	1.60	1.51
1	AE	24	G	C6-N1	-5.71	1.35	1.39
1	AE	36	A	P-OP2	-5.71	1.39	1.49
3	A1	30	U	C5-C6	5.71	1.39	1.34
3	A1	190	A	C5-C6	5.71	1.46	1.41
3	A1	459	A	C4'-O4'	-5.71	1.38	1.45
3	A1	1026	G	N9-C8	5.71	1.41	1.37
25	BB	388	G	C3'-C2'	5.71	1.59	1.52
25	BB	490	C	C2'-O2'	5.71	1.49	1.41
25	BB	499	U	C2-N3	-5.71	1.33	1.37
25	BB	628	G	C4'-O4'	-5.71	1.38	1.45
25	BB	1036	G	C2-N2	-5.71	1.28	1.34
25	BB	1106	G	N9-C4	-5.71	1.33	1.38
25	BB	1201	U	P-O5'	5.71	1.65	1.59
25	BB	1666	G	C2-N2	-5.71	1.28	1.34
25	BB	1836	C	P-O5'	5.71	1.65	1.59
25	BB	1977	A	C4'-O4'	-5.71	1.38	1.45
25	BB	2108	A	C3'-C2'	5.71	1.59	1.52
25	BB	2620	C	C3'-O3'	5.71	1.50	1.42
1	AA	27	C	C5'-C4'	5.71	1.58	1.51
3	A1	141	G	C6-N1	-5.71	1.35	1.39
3	A1	224	U	C4-O4	-5.71	1.19	1.23
3	A1	1508	A	C6-N1	-5.71	1.31	1.35
25	BB	225	C	C4-N4	-5.71	1.28	1.33
25	BB	1263	U	C4-C5	5.71	1.48	1.43
25	BB	2437	G	O4'-C1'	5.71	1.49	1.41
3	A1	645	G	N9-C8	-5.70	1.33	1.37
3	A1	941	G	C4'-C3'	-5.70	1.46	1.52
3	A1	1090	U	C2-N3	-5.70	1.33	1.37
3	A1	1148	U	C5-C6	5.70	1.39	1.34
25	BB	371	A	C2'-O2'	5.70	1.49	1.41
25	BB	400	G	C5-C4	5.70	1.42	1.38
25	BB	534	U	C5-C6	5.70	1.39	1.34
25	BB	1305	C	C4'-C3'	5.70	1.59	1.53
25	BB	1491	G	P-O5'	-5.70	1.54	1.59
25	BB	1577	C	N1-C6	5.70	1.40	1.37
25	BB	1955	U	C4-C5	5.70	1.48	1.43
25	BB	1968	G	N7-C5	5.70	1.42	1.39
25	BB	2709	G	C2-N3	5.70	1.37	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	37	U	C4-C5	5.70	1.48	1.43
3	A1	161	A	C2'-C1'	5.70	1.59	1.53
3	A1	557	G	C4'-O4'	-5.70	1.38	1.45
3	A1	881	G	P-O5'	-5.70	1.54	1.59
25	BB	1519	G	C5'-C4'	5.70	1.58	1.51
25	BB	2193	G	C5-C6	5.70	1.48	1.42
25	BB	2327	A	N9-C4	5.70	1.41	1.37
25	BB	2440	C	C4-C5	-5.70	1.38	1.43
25	BB	2550	G	N3-C4	5.70	1.39	1.35
3	A1	190	A	N1-C2	-5.70	1.29	1.34
3	A1	1095	U	N1-C2	5.70	1.43	1.38
18	AS	32	PHE	CG-CD1	5.70	1.47	1.38
25	BB	329	G	C2-N2	-5.70	1.28	1.34
25	BB	742	A	C6-N6	5.70	1.38	1.33
25	BB	762	U	N1-C6	-5.70	1.32	1.38
25	BB	861	A	C2-N3	-5.70	1.28	1.33
25	BB	1459	G	C5'-C4'	5.70	1.58	1.51
25	BB	1523	U	P-O5'	5.70	1.65	1.59
25	BB	2364	C	N3-C4	-5.70	1.29	1.33
3	A1	1127	G	C2-N2	-5.70	1.28	1.34
25	BB	169	G	C4'-C3'	5.70	1.59	1.53
25	BB	446	G	N7-C5	-5.70	1.35	1.39
25	BB	707	G	C2'-O2'	5.70	1.49	1.41
25	BB	1374	G	C2-N2	-5.70	1.28	1.34
25	BB	1803	A	C5-C4	-5.70	1.34	1.38
25	BB	2598	A	P-O5'	5.70	1.65	1.59
25	BB	2608	G	N9-C4	5.70	1.42	1.38
3	A1	1089	G	C6-O6	-5.70	1.19	1.24
24	BA	42	C	C2-N3	-5.70	1.31	1.35
25	BB	1348	C	C3'-C2'	5.70	1.59	1.52
25	BB	1609	A	C4'-C3'	5.70	1.59	1.53
27	BD	31	ARG	CZ-NH1	-5.70	1.25	1.33
1	AP	30	G	N9-C8	5.70	1.41	1.37
3	A1	511	C	C5-C6	5.70	1.39	1.34
25	BB	279	A	C6-N6	-5.70	1.29	1.33
25	BB	523	C	C5-C6	5.70	1.39	1.34
25	BB	1926	U	N1-C6	5.70	1.43	1.38
25	BB	2723	C	C4-N4	-5.70	1.28	1.33
3	A1	1299	A	N9-C4	-5.69	1.34	1.37
25	BB	706	A	C6-N6	-5.69	1.29	1.33
25	BB	952	G	C4'-O4'	-5.69	1.38	1.45
25	BB	2103	C	C2-N3	5.69	1.40	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2246	G	C5-C4	5.69	1.42	1.38
3	A1	273	U	P-OP1	-5.69	1.39	1.49
3	A1	724	G	C4'-O4'	-5.69	1.38	1.45
25	BB	42	A	C6-N6	-5.69	1.29	1.33
25	BB	1329	U	C4-O4	-5.69	1.19	1.23
25	BB	2151	U	C5'-C4'	5.69	1.58	1.51
25	BB	2710	C	C3'-C2'	-5.69	1.46	1.52
3	A1	190	A	C5'-C4'	5.69	1.58	1.51
24	BA	7	G	N9-C4	5.69	1.42	1.38
25	BB	168	G	N3-C4	5.69	1.39	1.35
25	BB	305	C	P-O5'	5.69	1.65	1.59
25	BB	709	U	O4'-C1'	5.69	1.49	1.41
25	BB	773	U	P-O5'	-5.69	1.54	1.59
25	BB	892	A	P-O5'	-5.69	1.54	1.59
25	BB	1192	G	C2-N2	-5.69	1.28	1.34
25	BB	1328	A	N7-C5	5.69	1.42	1.39
25	BB	1407	G	N3-C4	5.69	1.39	1.35
25	BB	1424	G	C6-O6	-5.69	1.19	1.24
25	BB	1617	C	O4'-C1'	5.69	1.49	1.41
25	BB	2067	G	O3'-P	5.69	1.68	1.61
25	BB	2106	U	C4'-O4'	-5.69	1.38	1.45
25	BB	2202	U	C4-O4	-5.69	1.19	1.23
25	BB	2349	G	C6-N1	-5.69	1.35	1.39
33	BJ	2	ARG	CZ-NH2	-5.69	1.25	1.33
3	A1	246	A	N3-C4	5.69	1.38	1.34
3	A1	1350	A	C6-N6	-5.69	1.29	1.33
25	BB	275	C	C2-O2	-5.69	1.19	1.24
25	BB	727	A	N1-C2	-5.69	1.29	1.34
25	BB	1857	G	N1-C2	-5.69	1.33	1.37
3	A1	812	G	N3-C4	5.69	1.39	1.35
3	A1	1313	U	C3'-C2'	5.69	1.59	1.52
3	A1	1343	G	C3'-O3'	-5.69	1.34	1.42
25	BB	308	G	C3'-O3'	-5.69	1.34	1.42
25	BB	439	A	C6-N1	5.69	1.39	1.35
25	BB	534	U	N3-C4	-5.69	1.33	1.38
25	BB	789	A	C8-N7	-5.69	1.27	1.31
25	BB	1553	A	C8-N7	-5.69	1.27	1.31
25	BB	2771	C	C2-N3	-5.69	1.31	1.35
3	A1	296	U	C2'-C1'	-5.69	1.47	1.53
3	A1	1496	C	C4-N4	-5.69	1.28	1.33
25	BB	1512	C	O3'-P	-5.69	1.54	1.61
25	BB	2087	G	P-O5'	5.69	1.65	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2334	U	C4'-O4'	-5.69	1.38	1.45
33	BJ	31	TYR	CB-CG	5.69	1.60	1.51
1	AA	62	A	N9-C8	5.68	1.42	1.37
3	A1	329	A	N1-C2	-5.68	1.29	1.34
3	A1	748	G	C5-C4	5.68	1.42	1.38
24	BA	28	C	C3'-C2'	5.68	1.59	1.52
25	BB	194	G	N1-C2	-5.68	1.33	1.37
25	BB	569	U	N1-C2	5.68	1.43	1.38
25	BB	588	U	C2-N3	-5.68	1.33	1.37
25	BB	1443	U	N1-C2	5.68	1.43	1.38
25	BB	1997	C	C4-N4	-5.68	1.28	1.33
25	BB	2246	G	C5'-C4'	5.68	1.58	1.51
25	BB	2569	G	C4'-O4'	-5.68	1.38	1.45
31	BH	30	ARG	CZ-NH1	-5.68	1.25	1.33
3	A1	399	G	N7-C5	5.68	1.42	1.39
3	A1	586	C	O4'-C1'	5.68	1.49	1.41
3	A1	706	A	N7-C5	5.68	1.42	1.39
3	A1	956	U	C2-N3	5.68	1.41	1.37
3	A1	1030	U	C5'-C4'	5.68	1.58	1.51
3	A1	1166	G	C5-C6	5.68	1.48	1.42
3	A1	1239	A	C3'-C2'	5.68	1.59	1.52
24	BA	61	G	C3'-C2'	5.68	1.59	1.52
25	BB	201	C	C5'-C4'	5.68	1.58	1.51
25	BB	1189	A	C6-N1	-5.68	1.31	1.35
25	BB	1295	C	N3-C4	-5.68	1.29	1.33
25	BB	1637	A	C5-C4	-5.68	1.34	1.38
25	BB	2224	G	C6-N1	-5.68	1.35	1.39
3	A1	603	U	C5-C6	5.68	1.39	1.34
3	A1	1226	C	C5-C6	5.68	1.38	1.34
24	BA	70	C	C4-C5	-5.68	1.38	1.43
3	A1	966	G	C2-N3	5.68	1.37	1.32
25	BB	540	C	C5-C6	5.68	1.38	1.34
25	BB	917	A	O3'-P	5.68	1.68	1.61
25	BB	1395	A	C3'-C2'	-5.68	1.46	1.52
25	BB	1470	A	N9-C4	5.68	1.41	1.37
25	BB	1830	C	N3-C4	-5.68	1.29	1.33
25	BB	2573	C	C4-N4	-5.68	1.28	1.33
25	BB	2664	G	C8-N7	5.68	1.34	1.30
25	BB	2665	A	C4'-O4'	-5.68	1.38	1.45
3	A1	1497	G	C4'-C3'	5.68	1.59	1.53
25	BB	852	U	O4'-C1'	5.68	1.49	1.41
25	BB	2084	C	N3-C4	-5.68	1.29	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	BL	18	ARG	CZ-NH1	-5.68	1.25	1.33
1	AP	73	A	N1-C2	-5.68	1.29	1.34
24	BA	84	G	C5-C6	5.68	1.48	1.42
24	BA	115	A	C2'-C1'	5.68	1.59	1.53
25	BB	760	G	C2'-O2'	5.68	1.49	1.41
25	BB	830	G	N1-C2	-5.68	1.33	1.37
25	BB	903	C	C4'-O4'	-5.68	1.38	1.45
25	BB	1165	A	O3'-P	-5.68	1.54	1.61
25	BB	1303	G	C5-C4	5.68	1.42	1.38
25	BB	1604	C	C4-N4	-5.68	1.28	1.33
25	BB	2218	G	C2-N2	-5.68	1.28	1.34
25	BB	2721	A	C8-N7	5.68	1.35	1.31
3	A1	225	C	C4-N4	-5.67	1.28	1.33
3	A1	902	G	N9-C8	5.67	1.41	1.37
3	A1	1035	A	N7-C5	5.67	1.42	1.39
3	A1	1198	G	N3-C4	5.67	1.39	1.35
3	A1	1281	C	C5-C6	5.67	1.38	1.34
24	BA	67	G	N9-C8	-5.67	1.33	1.37
25	BB	1402	U	O3'-P	-5.67	1.54	1.61
25	BB	2092	U	O3'-P	-5.67	1.54	1.61
25	BB	2102	G	C8-N7	-5.67	1.27	1.30
25	BB	2642	G	C8-N7	-5.67	1.27	1.30
3	A1	151	A	C6-N1	-5.67	1.31	1.35
3	A1	1264	U	N1-C2	5.67	1.43	1.38
25	BB	954	G	C4'-C3'	-5.67	1.46	1.52
25	BB	1237	A	C3'-C2'	-5.67	1.46	1.52
25	BB	2061	G	C6-O6	5.67	1.29	1.24
25	BB	2588	G	N9-C4	-5.67	1.33	1.38
25	BB	2743	U	C5-C6	5.67	1.39	1.34
25	BB	2778	A	N3-C4	5.67	1.38	1.34
3	A1	143	A	O3'-P	-5.67	1.54	1.61
3	A1	143	A	C6-N1	-5.67	1.31	1.35
24	BA	102	G	C8-N7	-5.67	1.27	1.30
25	BB	25	U	C3'-C2'	5.67	1.59	1.52
25	BB	449	A	C2'-C1'	5.67	1.59	1.53
25	BB	754	U	N3-C4	-5.67	1.33	1.38
25	BB	1150	C	N1-C6	5.67	1.40	1.37
25	BB	1255	U	C2-N3	-5.67	1.33	1.37
25	BB	1352	U	C2-O2	5.67	1.27	1.22
25	BB	1956	U	N3-C4	-5.67	1.33	1.38
25	BB	2074	U	O4'-C1'	5.67	1.49	1.41
25	BB	2590	A	N9-C4	-5.67	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2717	C	C5'-C4'	5.67	1.58	1.51
3	A1	566	G	C8-N7	-5.67	1.27	1.30
21	AV	87	ARG	CZ-NH1	-5.67	1.25	1.33
25	BB	716	A	C6-N1	-5.67	1.31	1.35
25	BB	2657	A	C8-N7	-5.67	1.27	1.31
3	A1	145	G	O4'-C1'	5.67	1.49	1.41
3	A1	424	G	C2-N2	-5.67	1.28	1.34
3	A1	1000	A	C5-C4	-5.67	1.34	1.38
3	A1	1086	U	N1-C2	5.67	1.43	1.38
25	BB	3	U	O4'-C1'	5.67	1.49	1.41
25	BB	260	G	C2-N3	5.67	1.37	1.32
25	BB	337	C	C2'-O2'	5.67	1.49	1.41
25	BB	532	A	C5'-C4'	5.67	1.58	1.51
25	BB	665	U	N3-C4	-5.67	1.33	1.38
25	BB	678	C	N1-C6	5.67	1.40	1.37
25	BB	711	G	N7-C5	5.67	1.42	1.39
25	BB	1157	G	N7-C5	-5.67	1.35	1.39
25	BB	2011	U	N1-C2	5.67	1.43	1.38
25	BB	2428	G	P-O5'	-5.67	1.54	1.59
25	BB	2454	G	N9-C8	5.67	1.41	1.37
3	A1	99	C	C3'-C2'	5.67	1.59	1.52
3	A1	116	A	N3-C4	5.67	1.38	1.34
3	A1	960	U	P-O5'	5.67	1.65	1.59
25	BB	429	A	C6-N6	-5.67	1.29	1.33
25	BB	1092	C	O3'-P	-5.67	1.54	1.61
25	BB	1220	G	N9-C8	-5.67	1.33	1.37
25	BB	1271	G	N7-C5	5.67	1.42	1.39
25	BB	1453	A	N9-C8	-5.67	1.33	1.37
25	BB	2270	A	C4'-O4'	-5.67	1.38	1.45
25	BB	2823	A	N1-C2	-5.67	1.29	1.34
25	BB	2843	G	C6-N1	-5.67	1.35	1.39
39	BP	40	ARG	CZ-NH2	-5.67	1.25	1.33
1	AP	37	G	C6-N1	-5.67	1.35	1.39
3	A1	1009	U	C2'-C1'	5.67	1.59	1.53
25	BB	148	U	N1-C2	5.67	1.43	1.38
25	BB	885	C	N3-C4	-5.67	1.29	1.33
25	BB	1317	G	C6-N1	-5.67	1.35	1.39
25	BB	1756	G	O4'-C1'	-5.67	1.34	1.41
3	A1	156	C	C5-C6	5.66	1.38	1.34
3	A1	726	C	C4'-O4'	-5.66	1.38	1.45
3	A1	1218	C	N1-C6	5.66	1.40	1.37
25	BB	166	U	N1-C6	5.66	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	685	A	N3-C4	5.66	1.38	1.34
25	BB	1933	G	C2-N2	-5.66	1.28	1.34
3	A1	6	G	C5-C4	-5.66	1.34	1.38
25	BB	805	G	C2-N3	5.66	1.37	1.32
25	BB	1126	A	C6-N6	-5.66	1.29	1.33
25	BB	1311	G	C5'-C4'	5.66	1.58	1.51
25	BB	2613	U	C2-N3	5.66	1.41	1.37
1	AE	63	C	C2-N3	5.66	1.40	1.35
3	A1	145	G	C4'-O4'	5.66	1.52	1.45
3	A1	1094	G	C2-N2	-5.66	1.28	1.34
25	BB	517	C	N1-C6	-5.66	1.33	1.37
25	BB	609	A	C6-N6	-5.66	1.29	1.33
25	BB	889	C	C4-N4	-5.66	1.28	1.33
25	BB	1184	U	N3-C4	-5.66	1.33	1.38
25	BB	1483	G	C3'-C2'	5.66	1.59	1.52
25	BB	1521	G	N7-C5	5.66	1.42	1.39
25	BB	2753	A	P-O5'	5.66	1.65	1.59
3	A1	174	A	C5'-C4'	5.66	1.58	1.51
3	A1	482	A	N9-C4	5.66	1.41	1.37
3	A1	676	A	N1-C2	-5.66	1.29	1.34
3	A1	1098	C	C2-N3	5.66	1.40	1.35
24	BA	117	G	C2-N2	-5.66	1.28	1.34
25	BB	495	G	C6-N1	-5.66	1.35	1.39
25	BB	512	G	C3'-O3'	5.66	1.50	1.42
25	BB	555	G	N1-C2	-5.66	1.33	1.37
25	BB	1085	A	O4'-C1'	5.66	1.49	1.41
25	BB	1488	C	C4-C5	-5.66	1.38	1.43
25	BB	1910	G	C5'-C4'	5.66	1.58	1.51
25	BB	2122	U	C2-N3	-5.66	1.33	1.37
25	BB	2577	A	C5'-C4'	5.66	1.58	1.51
1	AE	44	A	C5-C4	-5.66	1.34	1.38
2	AM	18	U	C2-N3	5.66	1.41	1.37
3	A1	487	A	C5-C6	5.66	1.46	1.41
3	A1	1421	G	C6-O6	-5.66	1.19	1.24
25	BB	725	G	C8-N7	5.66	1.34	1.30
25	BB	1275	A	O4'-C1'	5.66	1.49	1.41
25	BB	2861	U	P-O5'	5.66	1.65	1.59
3	A1	769	G	C5-C6	5.66	1.48	1.42
3	A1	1009	U	P-O5'	5.66	1.65	1.59
3	A1	1280	A	P-O5'	5.66	1.65	1.59
25	BB	123	G	C6-N1	-5.66	1.35	1.39
25	BB	183	C	C3'-C2'	5.66	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1995	U	N1-C2	5.66	1.43	1.38
25	BB	2451	A	C5'-C4'	5.66	1.58	1.51
25	BB	2722	G	N1-C2	-5.66	1.33	1.37
25	BB	1349	C	O3'-P	-5.65	1.54	1.61
3	A1	449	G	N1-C2	-5.65	1.33	1.37
3	A1	493	A	P-O5'	-5.65	1.54	1.59
3	A1	726	C	C2-O2	-5.65	1.19	1.24
3	A1	908	A	C6-N1	-5.65	1.31	1.35
3	A1	1164	G	N7-C5	5.65	1.42	1.39
3	A1	1299	A	C5-C4	-5.65	1.34	1.38
24	BA	87	U	C5-C6	5.65	1.39	1.34
25	BB	394	C	C2-O2	-5.65	1.19	1.24
25	BB	526	A	C5'-C4'	5.65	1.58	1.51
25	BB	651	G	C8-N7	-5.65	1.27	1.30
25	BB	660	C	C4-N4	-5.65	1.28	1.33
25	BB	841	G	C2-N2	-5.65	1.28	1.34
25	BB	1068	G	C4'-C3'	5.65	1.59	1.53
25	BB	1443	U	C5'-C4'	5.65	1.58	1.51
25	BB	1907	G	C8-N7	-5.65	1.27	1.30
3	A1	644	U	C5-C6	5.65	1.39	1.34
3	A1	656	G	N1-C2	-5.65	1.33	1.37
3	A1	1178	G	C2-N2	-5.65	1.28	1.34
3	A1	1276	G	O3'-P	-5.65	1.54	1.61
3	A1	1532	U	N3-C4	-5.65	1.33	1.38
7	AF	92	ARG	NE-CZ	-5.65	1.25	1.33
25	BB	278	A	C6-N1	-5.65	1.31	1.35
25	BB	809	G	C2'-O2'	5.65	1.49	1.41
25	BB	1035	U	C5-C6	5.65	1.39	1.34
25	BB	1742	U	C4'-O4'	-5.65	1.38	1.45
25	BB	2588	G	N3-C4	5.65	1.39	1.35
25	BB	2629	U	N1-C2	5.65	1.43	1.38
25	BB	2647	U	C4-C5	5.65	1.48	1.43
3	A1	1226	C	C4'-C3'	5.65	1.59	1.53
3	A1	1357	A	N7-C5	5.65	1.42	1.39
3	A1	1521	C	P-O5'	5.65	1.65	1.59
25	BB	514	A	N3-C4	5.65	1.38	1.34
25	BB	917	A	C2-N3	5.65	1.38	1.33
25	BB	1293	C	C2-O2	-5.65	1.19	1.24
25	BB	2200	C	C4-N4	-5.65	1.28	1.33
2	AM	1	U	C1'-N1	5.65	1.57	1.48
3	A1	702	A	C5'-C4'	5.65	1.58	1.51
3	A1	755	G	C6-N1	-5.65	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1335	U	N3-C4	-5.65	1.33	1.38
25	BB	812	C	N3-C4	5.65	1.38	1.33
25	BB	1152	C	N1-C6	-5.65	1.33	1.37
25	BB	1247	A	N7-C5	5.65	1.42	1.39
25	BB	1293	C	C4-C5	-5.65	1.38	1.43
25	BB	1731	G	C2-N2	-5.65	1.28	1.34
25	BB	1775	U	C2-N3	5.65	1.41	1.37
25	BB	2286	G	C4'-C3'	-5.65	1.47	1.52
25	BB	2683	C	C4'-C3'	-5.65	1.47	1.52
25	BB	2777	G	C5-C6	5.65	1.48	1.42
1	AP	24	G	O4'-C1'	5.65	1.49	1.41
1	AP	51	G	C4'-O4'	-5.65	1.38	1.45
3	A1	274	A	N9-C8	-5.65	1.33	1.37
25	BB	998	C	C4-N4	-5.65	1.28	1.33
25	BB	2379	G	N7-C5	5.65	1.42	1.39
1	AP	32	C	N1-C6	-5.64	1.33	1.37
3	A1	1226	C	O5'-C5'	-5.64	1.33	1.42
3	A1	1290	G	C6-N1	-5.64	1.35	1.39
25	BB	463	G	C4'-C3'	5.64	1.59	1.53
25	BB	809	G	N1-C2	-5.64	1.33	1.37
25	BB	1247	A	N3-C4	-5.64	1.31	1.34
25	BB	1266	G	C3'-O3'	5.64	1.50	1.42
25	BB	1331	G	C2-N3	5.64	1.37	1.32
25	BB	1773	A	C5'-C4'	5.64	1.58	1.51
25	BB	1950	G	N9-C8	5.64	1.41	1.37
25	BB	2509	G	N7-C5	5.64	1.42	1.39
1	AE	71	G	C5-C6	5.64	1.48	1.42
3	A1	117	G	C6-N1	-5.64	1.35	1.39
3	A1	445	G	C4'-O4'	-5.64	1.38	1.45
3	A1	670	G	C2-N2	-5.64	1.28	1.34
3	A1	787	A	N3-C4	5.64	1.38	1.34
3	A1	1345	U	C3'-C2'	5.64	1.59	1.52
16	AQ	6	ARG	CZ-NH2	-5.64	1.25	1.33
24	BA	104	A	C5'-C4'	5.64	1.58	1.51
25	BB	521	U	C4-O4	5.64	1.28	1.23
25	BB	537	G	C2-N2	-5.64	1.28	1.34
25	BB	542	C	C4'-O4'	-5.64	1.38	1.45
25	BB	884	U	C3'-C2'	5.64	1.59	1.52
25	BB	964	C	N1-C6	5.64	1.40	1.37
25	BB	1407	G	C5-C6	5.64	1.48	1.42
25	BB	1414	C	C2-N3	5.64	1.40	1.35
25	BB	2790	U	O5'-C5'	-5.64	1.33	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2812	G	C5-C6	5.64	1.48	1.42
3	A1	555	U	N1-C6	5.64	1.43	1.38
25	BB	439	A	C2-N3	-5.64	1.28	1.33
25	BB	1110	G	N3-C4	5.64	1.39	1.35
1	AP	19	G	N3-C4	5.64	1.39	1.35
3	A1	141	G	N1-C2	-5.64	1.33	1.37
3	A1	158	G	N9-C4	-5.64	1.33	1.38
3	A1	1223	C	N1-C6	5.64	1.40	1.37
25	BB	15	G	O3'-P	-5.64	1.54	1.61
25	BB	738	G	C2-N3	5.64	1.37	1.32
25	BB	888	C	C2'-C1'	5.64	1.59	1.53
25	BB	1350	C	O3'-P	-5.64	1.54	1.61
25	BB	1907	G	C5-C4	-5.64	1.34	1.38
25	BB	2136	G	N1-C2	-5.64	1.33	1.37
25	BB	2413	G	N7-C5	5.64	1.42	1.39
25	BB	2622	U	C2-O2	5.64	1.27	1.22
25	BB	2735	G	C2'-O2'	5.64	1.49	1.41
3	A1	566	G	N7-C5	5.64	1.42	1.39
25	BB	616	A	O3'-P	-5.64	1.54	1.61
25	BB	1846	G	N7-C5	5.64	1.42	1.39
49	BZ	131	ARG	CZ-NH1	-5.64	1.25	1.33
1	AA	57	G	C2-N2	-5.64	1.28	1.34
1	AA	73	A	C6-N1	-5.64	1.31	1.35
1	AE	22	G	C4'-O4'	-5.64	1.38	1.45
3	A1	36	C	O3'-P	-5.64	1.54	1.61
3	A1	532	A	O4'-C1'	5.64	1.49	1.41
3	A1	895	G	C8-N7	5.64	1.34	1.30
3	A1	1205	U	C3'-C2'	5.64	1.59	1.52
3	A1	1417	G	C5-C4	5.64	1.42	1.38
25	BB	615	U	C2-N3	-5.64	1.33	1.37
25	BB	724	U	C4'-O4'	-5.64	1.38	1.45
25	BB	852	U	C2-N3	-5.64	1.33	1.37
25	BB	1016	G	C8-N7	-5.64	1.27	1.30
25	BB	1082	U	C4-O4	5.64	1.28	1.23
25	BB	1139	G	C6-N1	-5.64	1.35	1.39
25	BB	1151	A	C2-N3	5.64	1.38	1.33
25	BB	1224	U	P-O5'	-5.64	1.54	1.59
25	BB	1295	C	P-O5'	-5.64	1.54	1.59
25	BB	1437	C	N3-C4	-5.64	1.30	1.33
25	BB	2036	C	C4-N4	-5.64	1.28	1.33
3	A1	163	C	C5'-C4'	5.63	1.58	1.51
3	A1	1108	G	P-O5'	5.63	1.65	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1457	G	C6-N1	-5.63	1.35	1.39
24	BA	89	U	C5'-C4'	5.63	1.58	1.51
25	BB	874	G	N9-C4	5.63	1.42	1.38
25	BB	937	C	C2-O2	-5.63	1.19	1.24
25	BB	1742	U	N1-C2	5.63	1.43	1.38
25	BB	1797	G	C4'-O4'	-5.63	1.38	1.45
25	BB	1903	G	O4'-C1'	5.63	1.49	1.41
27	BD	49	ARG	CZ-NH2	-5.63	1.25	1.33
51	B2	125	GLY	CA-C	5.63	1.60	1.51
25	BB	8	C	C4-N4	-5.63	1.28	1.33
25	BB	1046	A	C6-N1	5.63	1.39	1.35
25	BB	2402	U	N3-C4	-5.63	1.33	1.38
25	BB	2651	C	C4'-O4'	-5.63	1.38	1.45
3	A1	140	U	C5-C6	5.63	1.39	1.34
3	A1	168	G	O3'-P	-5.63	1.54	1.61
3	A1	272	C	C5-C6	5.63	1.38	1.34
3	A1	762	U	P-O5'	-5.63	1.54	1.59
3	A1	783	C	N1-C2	-5.63	1.34	1.40
3	A1	1035	A	C5-C6	5.63	1.46	1.41
8	AG	12	ARG	CZ-NH2	-5.63	1.25	1.33
25	BB	22	C	C3'-C2'	5.63	1.59	1.52
25	BB	626	A	C4'-O4'	-5.63	1.38	1.45
25	BB	925	A	O3'-P	-5.63	1.54	1.61
25	BB	1166	G	C3'-C2'	5.63	1.59	1.52
25	BB	1366	A	C5-C4	-5.63	1.34	1.38
25	BB	2219	U	C5'-C4'	5.63	1.58	1.51
29	BF	10	ARG	CZ-NH2	-5.63	1.25	1.33
3	A1	243	A	C5-C4	-5.63	1.34	1.38
25	BB	411	G	N9-C4	-5.63	1.33	1.38
25	BB	439	A	N1-C2	-5.63	1.29	1.34
25	BB	850	U	N1-C2	5.63	1.43	1.38
25	BB	1360	G	C5-C4	5.63	1.42	1.38
3	A1	312	C	N1-C2	5.63	1.45	1.40
3	A1	366	A	C8-N7	-5.63	1.27	1.31
24	BA	69	G	C2-N2	-5.63	1.28	1.34
24	BA	105	G	C4'-C3'	-5.63	1.47	1.52
25	BB	36	G	C6-N1	-5.63	1.35	1.39
25	BB	68	G	C5-C6	5.63	1.48	1.42
25	BB	944	C	C5'-C4'	5.63	1.58	1.51
25	BB	1593	A	O4'-C1'	5.63	1.49	1.41
25	BB	1886	U	C2-N3	-5.63	1.33	1.37
25	BB	2204	G	N7-C5	5.63	1.42	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	64	G	P-O5'	-5.63	1.54	1.59
3	A1	668	G	C5'-C4'	5.63	1.58	1.51
3	A1	892	A	N7-C5	5.63	1.42	1.39
3	A1	1245	C	C4-N4	-5.63	1.28	1.33
3	A1	1283	U	N1-C2	5.63	1.43	1.38
25	BB	69	C	C2-N3	-5.63	1.31	1.35
25	BB	386	G	C2-N2	-5.63	1.28	1.34
25	BB	1014	A	C4'-O4'	-5.63	1.38	1.45
25	BB	1018	U	N3-C4	-5.63	1.33	1.38
25	BB	1150	C	N3-C4	-5.63	1.30	1.33
25	BB	1709	U	O3'-P	-5.63	1.54	1.61
25	BB	1738	G	O3'-P	-5.63	1.54	1.61
25	BB	2007	U	P-O5'	5.63	1.65	1.59
25	BB	2512	C	C5-C6	5.63	1.38	1.34
1	AA	15	G	C5-C4	-5.62	1.34	1.38
3	A1	798	U	C3'-C2'	-5.62	1.46	1.52
3	A1	1524	C	C5'-C4'	5.62	1.58	1.51
25	BB	2866	U	O4'-C1'	5.62	1.49	1.41
1	AA	73	A	O3'-P	-5.62	1.54	1.61
3	A1	978	A	N7-C5	5.62	1.42	1.39
3	A1	991	U	C2-O2	5.62	1.27	1.22
25	BB	515	A	C2'-O2'	5.62	1.49	1.41
25	BB	552	U	N1-C2	5.62	1.43	1.38
25	BB	995	C	C2-O2	-5.62	1.19	1.24
25	BB	1381	G	C6-O6	5.62	1.29	1.24
25	BB	1590	A	P-O5'	5.62	1.65	1.59
25	BB	2529	G	N3-C4	5.62	1.39	1.35
3	A1	679	C	O3'-P	5.62	1.67	1.61
3	A1	796	C	C4'-O4'	-5.62	1.38	1.45
3	A1	1111	A	C5-C4	-5.62	1.34	1.38
3	A1	1125	U	C4-C5	5.62	1.48	1.43
3	A1	1133	G	C2-N2	-5.62	1.28	1.34
25	BB	759	G	C2-N2	-5.62	1.28	1.34
25	BB	761	A	C6-N6	-5.62	1.29	1.33
25	BB	981	A	C5'-C4'	5.62	1.58	1.51
25	BB	1282	U	N3-C4	-5.62	1.33	1.38
25	BB	1504	A	N9-C4	5.62	1.41	1.37
25	BB	2850	A	N1-C2	-5.62	1.29	1.34
33	BJ	63	ARG	CZ-NH2	-5.62	1.25	1.33
1	AP	11	C	C2-O2	-5.62	1.19	1.24
3	A1	580	C	C2-N3	-5.62	1.31	1.35
25	BB	947	A	N7-C5	5.62	1.42	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1314	C	C3'-C2'	5.62	1.59	1.52
25	BB	1659	G	N7-C5	-5.62	1.35	1.39
25	BB	1732	C	C3'-O3'	5.62	1.50	1.42
3	A1	479	U	C5-C6	5.62	1.39	1.34
3	A1	1028	C	C4-C5	5.62	1.47	1.43
3	A1	1085	U	N1-C6	5.62	1.43	1.38
25	BB	657	U	C2-N3	5.62	1.41	1.37
25	BB	850	U	C2'-O2'	5.62	1.49	1.41
25	BB	1646	C	C4'-O4'	-5.62	1.38	1.45
25	BB	1677	A	C4'-C3'	-5.62	1.47	1.52
25	BB	1859	U	C5-C6	5.62	1.39	1.34
25	BB	2084	C	C2'-O2'	5.62	1.49	1.41
25	BB	2403	C	C4-C5	-5.62	1.38	1.43
25	BB	2562	U	C4-O4	-5.62	1.19	1.23
42	BS	19	GLY	N-CA	5.62	1.54	1.46
3	A1	252	U	C2-N3	5.62	1.41	1.37
3	A1	414	A	C2-N3	-5.62	1.28	1.33
25	BB	1133	A	C4'-O4'	-5.62	1.38	1.45
25	BB	2280	G	C3'-C2'	5.62	1.59	1.52
1	AE	7	U	C5-C6	5.62	1.39	1.34
3	A1	166	U	O3'-P	-5.62	1.54	1.61
25	BB	268	C	C4-N4	-5.62	1.28	1.33
25	BB	1843	C	C3'-C2'	5.62	1.59	1.52
25	BB	2231	U	C4-C5	5.62	1.48	1.43
25	BB	2542	A	C2'-C1'	5.62	1.59	1.53
50	B1	74	LYS	N-CA	5.62	1.57	1.46
3	A1	232	G	C4'-C3'	5.61	1.59	1.53
3	A1	502	A	N9-C8	5.61	1.42	1.37
3	A1	768	A	C5-C4	-5.61	1.34	1.38
3	A1	912	C	C5-C6	5.61	1.38	1.34
3	A1	958	A	C5-C4	-5.61	1.34	1.38
24	BA	72	G	N3-C4	-5.61	1.31	1.35
25	BB	217	A	C8-N7	-5.61	1.27	1.31
25	BB	309	A	N1-C2	-5.61	1.29	1.34
25	BB	471	A	C2'-C1'	5.61	1.59	1.53
25	BB	687	C	P-O5'	-5.61	1.54	1.59
25	BB	912	C	N3-C4	-5.61	1.30	1.33
25	BB	1617	C	C4-N4	-5.61	1.28	1.33
25	BB	1862	G	N9-C8	5.61	1.41	1.37
25	BB	1937	A	C5-C4	5.61	1.42	1.38
25	BB	2326	C	C4-N4	-5.61	1.28	1.33
25	BB	2499	C	N3-C4	-5.61	1.30	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	419	C	N3-C4	5.61	1.37	1.33
3	A1	667	G	C6-O6	-5.61	1.19	1.24
3	A1	1276	G	C5'-C4'	5.61	1.58	1.51
3	A1	1385	G	C8-N7	5.61	1.34	1.30
24	BA	90	C	C5-C6	5.61	1.38	1.34
25	BB	9	G	C3'-C2'	5.61	1.59	1.52
25	BB	2170	A	N1-C2	5.61	1.39	1.34
25	BB	2483	C	C4-N4	-5.61	1.28	1.33
3	A1	204	G	C8-N7	-5.61	1.27	1.30
3	A1	725	G	P-O5'	5.61	1.65	1.59
24	BA	75	G	C2-N2	-5.61	1.28	1.34
25	BB	15	G	C2-N3	5.61	1.37	1.32
25	BB	46	G	C3'-C2'	5.61	1.59	1.52
25	BB	475	C	C1'-N1	5.61	1.57	1.48
25	BB	547	A	O4'-C1'	5.61	1.49	1.41
25	BB	1170	C	C4-N4	-5.61	1.28	1.33
25	BB	1244	A	N9-C8	5.61	1.42	1.37
25	BB	2052	A	C4'-O4'	-5.61	1.38	1.45
25	BB	2255	G	C8-N7	5.61	1.34	1.30
25	BB	2477	U	C4'-C3'	-5.61	1.47	1.52
39	BP	34	SER	CB-OG	-5.61	1.34	1.42
3	A1	94	G	C2-N2	-5.61	1.28	1.34
25	BB	551	G	N1-C2	-5.61	1.33	1.37
25	BB	1484	U	C4-C5	5.61	1.48	1.43
25	BB	2890	G	C6-O6	5.61	1.29	1.24
3	A1	41	G	C4'-O4'	-5.61	1.38	1.45
3	A1	416	G	P-O5'	5.61	1.65	1.59
3	A1	448	A	N9-C8	5.61	1.42	1.37
3	A1	659	U	C5-C6	5.61	1.39	1.34
25	BB	623	C	N1-C6	-5.61	1.33	1.37
25	BB	763	G	C5'-C4'	5.61	1.58	1.51
25	BB	1149	G	P-O5'	-5.61	1.54	1.59
25	BB	1288	G	C2-N2	-5.61	1.28	1.34
25	BB	1914	C	C2-O2	-5.61	1.19	1.24
25	BB	1984	G	N1-C2	-5.61	1.33	1.37
25	BB	2618	G	N1-C2	5.61	1.42	1.37
25	BB	2638	G	N1-C2	-5.61	1.33	1.37
25	BB	2792	A	C6-N1	-5.61	1.31	1.35
3	A1	752	G	C6-O6	-5.61	1.19	1.24
3	A1	819	A	C4'-O4'	-5.61	1.38	1.45
3	A1	1399	C	O4'-C1'	5.61	1.49	1.41
25	BB	34	U	O3'-P	-5.61	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	877	A	C2'-O2'	-5.61	1.34	1.41
25	BB	1088	A	C4'-O4'	-5.61	1.38	1.45
25	BB	1564	C	C5-C6	5.61	1.38	1.34
25	BB	1936	A	O3'-P	-5.61	1.54	1.61
25	BB	2649	C	C2'-C1'	-5.61	1.47	1.53
25	BB	2726	A	C2'-C1'	-5.61	1.47	1.53
1	AE	25	C	N1-C6	5.60	1.40	1.37
3	A1	889	A	N9-C8	-5.60	1.33	1.37
25	BB	270	A	C6-N6	-5.60	1.29	1.33
25	BB	2654	A	C8-N7	5.60	1.35	1.31
25	BB	2879	A	N7-C5	5.60	1.42	1.39
25	BB	2903	U	C4-C5	5.60	1.48	1.43
1	AA	51	G	C2-N2	-5.60	1.28	1.34
3	A1	718	A	C8-N7	5.60	1.35	1.31
3	A1	1024	G	C5-C6	5.60	1.48	1.42
3	A1	1236	A	C4'-O4'	-5.60	1.38	1.45
24	BA	60	C	O3'-P	5.60	1.67	1.61
25	BB	440	C	C4-C5	5.60	1.47	1.43
25	BB	873	C	C4-N4	-5.60	1.28	1.33
25	BB	2632	A	C5-C6	5.60	1.46	1.41
53	B4	137	GLU	CG-CD	5.60	1.60	1.51
3	A1	228	A	N7-C5	5.60	1.42	1.39
25	BB	63	A	C4'-O4'	-5.60	1.38	1.45
1	AP	75	C	C4-N4	-5.60	1.28	1.33
3	A1	660	C	C4-N4	-5.60	1.28	1.33
3	A1	848	C	O4'-C1'	5.60	1.49	1.41
3	A1	1378	C	C2-N3	-5.60	1.31	1.35
25	BB	691	C	N3-C4	-5.60	1.30	1.33
25	BB	1618	A	C5'-C4'	5.60	1.58	1.51
25	BB	1977	A	C3'-C2'	-5.60	1.46	1.52
25	BB	2339	C	P-O5'	5.60	1.65	1.59
3	A1	639	G	C2-N2	-5.60	1.28	1.34
3	A1	685	G	N7-C5	5.60	1.42	1.39
3	A1	816	A	C5'-C4'	5.60	1.58	1.51
25	BB	188	G	O3'-P	-5.60	1.54	1.61
25	BB	486	C	C2-O2	5.60	1.29	1.24
25	BB	626	A	C5'-C4'	5.60	1.58	1.51
25	BB	628	G	C2-N2	-5.60	1.28	1.34
25	BB	718	A	C2-N3	5.60	1.38	1.33
25	BB	1321	A	C2'-O2'	5.60	1.49	1.41
25	BB	1829	A	C6-N1	-5.60	1.31	1.35
25	BB	2557	G	O3'-P	-5.60	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2627	G	C5'-C4'	5.60	1.58	1.51
44	BU	27	ARG	CZ-NH1	-5.60	1.25	1.33
3	A1	443	C	C5-C6	5.60	1.38	1.34
3	A1	461	A	C5-C6	-5.60	1.36	1.41
3	A1	478	A	C6-N6	-5.60	1.29	1.33
25	BB	146	A	O4'-C1'	5.60	1.49	1.41
25	BB	623	C	N3-C4	-5.60	1.30	1.33
25	BB	767	U	N1-C2	5.60	1.43	1.38
25	BB	1220	G	C5-C6	5.60	1.48	1.42
25	BB	2677	G	C5'-C4'	5.60	1.58	1.51
3	A1	1241	G	C2-N2	-5.59	1.28	1.34
3	A1	1305	G	P-O5'	-5.59	1.54	1.59
3	A1	1347	G	C5'-C4'	5.59	1.58	1.51
25	BB	42	A	N3-C4	5.59	1.38	1.34
25	BB	74	A	N3-C4	5.59	1.38	1.34
25	BB	526	A	N1-C2	-5.59	1.29	1.34
25	BB	701	G	N3-C4	5.59	1.39	1.35
25	BB	1143	A	N9-C8	5.59	1.42	1.37
25	BB	1647	U	C5-C6	5.59	1.39	1.34
25	BB	1876	A	C2'-C1'	5.59	1.59	1.53
25	BB	2475	C	C4-N4	-5.59	1.28	1.33
25	BB	2579	C	N3-C4	-5.59	1.30	1.33
25	BB	2616	C	C4-C5	-5.59	1.38	1.43
1	AP	67	A	C6-N6	-5.59	1.29	1.33
1	AE	70	C	N1-C6	5.59	1.40	1.37
3	A1	135	C	C5-C6	5.59	1.38	1.34
3	A1	1341	U	C2'-O2'	5.59	1.49	1.41
22	AW	11	ARG	CZ-NH1	-5.59	1.25	1.33
25	BB	622	G	C2-N3	5.59	1.37	1.32
25	BB	1928	A	C8-N7	-5.59	1.27	1.31
25	BB	2193	G	N7-C5	5.59	1.42	1.39
25	BB	2884	U	C5-C6	5.59	1.39	1.34
3	A1	628	G	P-O5'	5.59	1.65	1.59
25	BB	160	A	C4'-O4'	-5.59	1.38	1.45
25	BB	436	C	C2'-C1'	-5.59	1.47	1.53
25	BB	440	C	C4'-C3'	5.59	1.59	1.53
25	BB	513	A	N3-C4	5.59	1.38	1.34
25	BB	962	G	N3-C4	5.59	1.39	1.35
25	BB	1209	U	C2-N3	5.59	1.41	1.37
25	BB	1286	A	C6-N1	-5.59	1.31	1.35
25	BB	2496	C	C2'-O2'	5.59	1.49	1.41
25	BB	2661	G	C2-N2	-5.59	1.28	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2671	G	C6-N1	-5.59	1.35	1.39
29	BF	50	ARG	CZ-NH2	-5.59	1.25	1.33
1	AE	45	G	C6-N1	-5.59	1.35	1.39
3	A1	631	C	C2-N3	-5.59	1.31	1.35
25	BB	135	U	C4'-O4'	-5.59	1.38	1.45
25	BB	603	A	C6-N1	-5.59	1.31	1.35
25	BB	715	A	N9-C8	5.59	1.42	1.37
25	BB	1387	A	C5-C4	-5.59	1.34	1.38
3	A1	158	G	P-O5'	5.59	1.65	1.59
3	A1	1209	C	N3-C4	-5.59	1.30	1.33
25	BB	189	G	C2-N3	5.59	1.37	1.32
25	BB	1697	G	C2-N2	-5.59	1.28	1.34
25	BB	2393	U	C5-C6	5.59	1.39	1.34
25	BB	2499	C	C4-C5	-5.59	1.38	1.43
1	AE	10	G	C2-N2	-5.59	1.28	1.34
3	A1	181	A	P-O5'	5.59	1.65	1.59
3	A1	259	G	C1'-N9	5.59	1.57	1.48
3	A1	278	G	N1-C2	-5.59	1.33	1.37
3	A1	301	G	O4'-C1'	5.59	1.49	1.41
3	A1	522	C	N3-C4	-5.59	1.30	1.33
3	A1	897	C	O3'-P	-5.59	1.54	1.61
3	A1	1437	A	C4'-C3'	-5.59	1.47	1.52
25	BB	855	G	N3-C4	-5.59	1.31	1.35
25	BB	943	A	C5-C6	5.59	1.46	1.41
25	BB	1202	G	N3-C4	5.59	1.39	1.35
25	BB	1248	G	N9-C4	-5.59	1.33	1.38
25	BB	1268	A	O4'-C1'	5.59	1.49	1.41
25	BB	2233	U	N1-C2	5.59	1.43	1.38
25	BB	2510	C	C4-N4	-5.59	1.28	1.33
25	BB	2882	A	C5-C6	-5.59	1.36	1.41
42	BS	42	PRO	N-CD	-5.59	1.40	1.47
1	AE	9	A	N3-C4	5.58	1.38	1.34
3	A1	1411	C	P-O5'	5.58	1.65	1.59
25	BB	2531	A	N9-C4	-5.58	1.34	1.37
40	BQ	7	ARG	CZ-NH2	-5.58	1.25	1.33
3	A1	929	G	N3-C4	5.58	1.39	1.35
3	A1	1213	A	C2'-C1'	-5.58	1.47	1.53
3	A1	1525	G	C2'-O2'	5.58	1.49	1.41
25	BB	539	G	C5-C6	5.58	1.48	1.42
25	BB	564	C	P-O5'	5.58	1.65	1.59
25	BB	719	C	N1-C6	5.58	1.40	1.37
25	BB	1311	G	C4'-O4'	-5.58	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1394	U	O3'-P	-5.58	1.54	1.61
25	BB	1409	U	C5'-C4'	5.58	1.58	1.51
25	BB	1756	G	C4'-O4'	-5.58	1.38	1.45
3	A1	299	G	C2'-O2'	-5.58	1.34	1.41
3	A1	435	A	C3'-C2'	5.58	1.59	1.52
3	A1	1155	A	C8-N7	-5.58	1.27	1.31
25	BB	177	G	C5-C4	-5.58	1.34	1.38
25	BB	538	A	C3'-O3'	5.58	1.50	1.42
25	BB	679	C	C3'-C2'	5.58	1.59	1.52
25	BB	900	A	N3-C4	5.58	1.38	1.34
25	BB	1110	G	C5-C4	5.58	1.42	1.38
25	BB	1753	G	P-O5'	5.58	1.65	1.59
25	BB	2005	A	C3'-C2'	5.58	1.59	1.52
25	BB	2541	A	C6-N6	-5.58	1.29	1.33
3	A1	283	U	N1-C2	-5.58	1.33	1.38
25	BB	621	A	C2'-C1'	5.58	1.59	1.53
25	BB	2270	A	N9-C8	-5.58	1.33	1.37
3	A1	361	G	N9-C4	5.58	1.42	1.38
3	A1	538	G	C6-N1	-5.58	1.35	1.39
3	A1	593	U	O4'-C1'	5.58	1.49	1.41
3	A1	955	U	C2'-O2'	5.58	1.49	1.41
3	A1	1089	G	N9-C4	-5.58	1.33	1.38
3	A1	1464	U	O3'-P	-5.58	1.54	1.61
9	AH	31	LEU	N-CA	5.58	1.57	1.46
25	BB	854	C	C5'-C4'	5.58	1.58	1.51
25	BB	1332	G	C5'-C4'	5.58	1.58	1.51
25	BB	1783	A	C5-C4	-5.58	1.34	1.38
25	BB	1899	A	N7-C5	5.58	1.42	1.39
25	BB	2117	A	N9-C4	5.58	1.41	1.37
25	BB	2270	A	N3-C4	5.58	1.38	1.34
25	BB	2297	A	C6-N6	-5.58	1.29	1.33
25	BB	2759	G	C2-N2	-5.58	1.28	1.34
3	A1	600	A	N3-C4	5.58	1.38	1.34
25	BB	564	C	C4-C5	5.58	1.47	1.43
25	BB	644	A	C4'-O4'	-5.58	1.38	1.45
25	BB	1293	C	C2'-C1'	5.58	1.59	1.53
25	BB	1548	A	N1-C2	-5.58	1.29	1.34
25	BB	2204	G	C2'-O2'	5.58	1.49	1.41
1	AA	65	G	O4'-C1'	5.58	1.48	1.41
3	A1	1165	U	C4-C5	5.58	1.48	1.43
3	A1	1462	C	O3'-P	-5.58	1.54	1.61
3	A1	1493	A	C6-N6	-5.58	1.29	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1523	G	N3-C4	5.58	1.39	1.35
25	BB	1401	G	C5'-C4'	5.58	1.58	1.51
25	BB	1420	A	C4'-C3'	5.58	1.59	1.53
25	BB	1691	C	C2'-O2'	-5.58	1.34	1.41
25	BB	2472	G	N3-C4	5.58	1.39	1.35
25	BB	2811	G	C1'-N9	5.58	1.57	1.48
26	BC	35	GLU	CG-CD	5.58	1.60	1.51
3	A1	288	A	O5'-C5'	-5.57	1.33	1.42
3	A1	1109	C	C4-N4	-5.57	1.28	1.33
3	A1	1146	A	N1-C2	-5.57	1.29	1.34
25	BB	19	A	N7-C5	5.57	1.42	1.39
25	BB	778	G	C6-N1	5.57	1.43	1.39
25	BB	1803	A	C6-N6	-5.57	1.29	1.33
34	BK	30	GLY	N-CA	5.57	1.54	1.46
1	AA	9	A	C5-C4	-5.57	1.34	1.38
3	A1	81	A	N9-C4	5.57	1.41	1.37
3	A1	501	C	O3'-P	-5.57	1.54	1.61
3	A1	628	G	C2-N2	-5.57	1.28	1.34
3	A1	1104	G	C2-N2	-5.57	1.28	1.34
25	BB	79	C	C2'-O2'	5.57	1.48	1.41
25	BB	187	G	C5-C6	5.57	1.48	1.42
25	BB	719	C	C5'-C4'	5.57	1.58	1.51
25	BB	2327	A	C8-N7	-5.57	1.27	1.31
25	BB	2578	G	C6-O6	-5.57	1.19	1.24
25	BB	2738	A	C8-N7	-5.57	1.27	1.31
1	AA	15	G	O3'-P	5.57	1.67	1.61
3	A1	267	C	C5-C6	-5.57	1.29	1.34
3	A1	516	U	C2-O2	5.57	1.27	1.22
3	A1	678	U	N1-C2	5.57	1.43	1.38
25	BB	1178	C	N3-C4	-5.57	1.30	1.33
25	BB	1347	A	C5'-C4'	5.57	1.58	1.51
25	BB	2043	C	C2-N3	-5.57	1.31	1.35
1	AA	64	A	C2'-O2'	5.57	1.48	1.41
21	AV	97	GLY	CA-C	5.57	1.60	1.51
25	BB	6	A	C5-C4	-5.57	1.34	1.38
25	BB	848	C	C5-C6	-5.57	1.29	1.34
25	BB	1593	A	C5'-C4'	5.57	1.58	1.51
25	BB	2418	A	N9-C4	5.57	1.41	1.37
47	BX	4	ARG	CD-NE	5.57	1.55	1.46
3	A1	510	A	N7-C5	5.57	1.42	1.39
3	A1	557	G	C2-N2	-5.57	1.28	1.34
3	A1	691	G	C2'-O2'	5.57	1.48	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	711	G	C2-N2	-5.57	1.28	1.34
3	A1	945	G	C4'-C3'	5.57	1.59	1.53
3	A1	1263	C	N1-C2	5.57	1.45	1.40
25	BB	101	A	N7-C5	-5.57	1.35	1.39
25	BB	149	A	C5'-C4'	5.57	1.58	1.51
25	BB	298	G	C2-N2	-5.57	1.28	1.34
25	BB	345	A	C6-N1	-5.57	1.31	1.35
25	BB	755	U	C5'-C4'	5.57	1.58	1.51
25	BB	1464	G	N1-C2	-5.57	1.33	1.37
25	BB	1687	G	C5-C4	5.57	1.42	1.38
37	BN	78	GLU	CG-CD	5.57	1.60	1.51
42	BS	25	ARG	CZ-NH1	-5.57	1.25	1.33
3	A1	34	C	N3-C4	-5.57	1.30	1.33
3	A1	832	G	N3-C4	5.57	1.39	1.35
3	A1	876	C	C2'-O2'	5.57	1.48	1.41
3	A1	921	U	C3'-C2'	5.57	1.59	1.52
3	A1	1220	G	C6-N1	-5.57	1.35	1.39
25	BB	750	A	N3-C4	5.57	1.38	1.34
25	BB	922	C	O5'-C5'	5.57	1.53	1.44
25	BB	1231	U	C1'-N1	5.57	1.57	1.48
25	BB	1608	A	N9-C4	5.57	1.41	1.37
25	BB	1972	G	N7-C5	5.57	1.42	1.39
25	BB	1981	A	N1-C2	-5.57	1.29	1.34
1	AA	26	G	N9-C4	5.56	1.42	1.38
3	A1	246	A	C8-N7	5.56	1.35	1.31
3	A1	1178	G	P-O5'	-5.56	1.54	1.59
24	BA	111	U	C4-O4	-5.56	1.19	1.23
25	BB	189	G	C5-C6	5.56	1.48	1.42
25	BB	662	G	N7-C5	5.56	1.42	1.39
25	BB	861	A	N3-C4	-5.56	1.31	1.34
25	BB	1211	C	C5-C6	-5.56	1.29	1.34
25	BB	1985	C	C2-N3	-5.56	1.31	1.35
25	BB	779	U	O3'-P	5.56	1.67	1.61
25	BB	1063	G	P-O5'	-5.56	1.54	1.59
25	BB	1288	G	C2'-C1'	5.56	1.59	1.53
25	BB	1368	G	P-O5'	5.56	1.65	1.59
25	BB	1543	G	C2'-O2'	5.56	1.48	1.41
25	BB	1546	G	N9-C8	-5.56	1.33	1.37
25	BB	2035	G	N1-C2	-5.56	1.33	1.37
25	BB	2344	U	C3'-C2'	5.56	1.59	1.52
25	BB	2735	G	C2-N2	-5.56	1.28	1.34
25	BB	2747	G	C2-N2	-5.56	1.28	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	700	G	O3'-P	-5.56	1.54	1.61
25	BB	36	G	C8-N7	5.56	1.34	1.30
25	BB	1929	G	C4'-C3'	5.56	1.59	1.53
3	A1	1250	A	C5-C4	-5.56	1.34	1.38
3	A1	1505	G	C8-N7	-5.56	1.27	1.30
3	A1	1525	G	N3-C4	5.56	1.39	1.35
25	BB	773	U	C3'-O3'	5.56	1.50	1.42
25	BB	938	G	N9-C8	5.56	1.41	1.37
25	BB	1466	U	C4-C5	5.56	1.48	1.43
25	BB	1827	U	C4'-C3'	-5.56	1.47	1.52
25	BB	2099	U	C4'-O4'	-5.56	1.38	1.45
25	BB	2280	G	C8-N7	-5.56	1.27	1.30
25	BB	2448	A	N9-C4	5.56	1.41	1.37
25	BB	2545	G	N1-C2	-5.56	1.33	1.37
25	BB	2731	G	C2-N2	-5.56	1.28	1.34
25	BB	2900	A	C5'-C4'	5.56	1.58	1.51
3	A1	268	U	C4'-O4'	-5.56	1.38	1.45
3	A1	347	G	N9-C8	-5.56	1.33	1.37
3	A1	425	G	N7-C5	5.56	1.42	1.39
3	A1	833	G	C3'-C2'	5.56	1.59	1.52
3	A1	1311	A	C5-C6	5.56	1.46	1.41
25	BB	1062	G	N7-C5	-5.56	1.35	1.39
25	BB	1178	C	C3'-C2'	5.56	1.59	1.52
25	BB	2040	G	P-O5'	-5.56	1.54	1.59
25	BB	2055	C	C2'-C1'	5.56	1.59	1.53
25	BB	2654	A	N9-C4	-5.56	1.34	1.37
25	BB	2755	C	N1-C2	5.56	1.45	1.40
3	A1	419	C	C4-C5	5.56	1.47	1.43
3	A1	1389	C	N1-C6	5.56	1.40	1.37
25	BB	215	G	O3'-P	-5.56	1.54	1.61
25	BB	950	G	C2'-O2'	5.56	1.48	1.41
25	BB	1297	C	N1-C6	-5.56	1.33	1.37
25	BB	1307	A	O3'-P	-5.56	1.54	1.61
25	BB	2806	C	O3'-P	-5.56	1.54	1.61
1	AE	51	G	N3-C4	5.55	1.39	1.35
3	A1	134	G	P-O5'	5.55	1.65	1.59
3	A1	337	G	N1-C2	-5.55	1.33	1.37
3	A1	351	G	C3'-O3'	5.55	1.50	1.42
3	A1	400	C	C4-N4	-5.55	1.28	1.33
3	A1	734	G	N7-C5	5.55	1.42	1.39
3	A1	746	A	O3'-P	-5.55	1.54	1.61
3	A1	905	U	N1-C2	5.55	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1059	C	O3'-P	-5.55	1.54	1.61
25	BB	551	G	P-O5'	5.55	1.65	1.59
25	BB	1476	U	C4-O4	-5.55	1.19	1.23
25	BB	1843	C	N3-C4	-5.55	1.30	1.33
25	BB	1885	A	C6-N6	-5.55	1.29	1.33
3	A1	333	U	N1-C6	-5.55	1.32	1.38
3	A1	1470	U	C2-N3	5.55	1.41	1.37
25	BB	235	U	N3-C4	5.55	1.43	1.38
25	BB	1794	A	N9-C8	5.55	1.42	1.37
25	BB	2065	C	P-O5'	5.55	1.65	1.59
25	BB	2678	C	C3'-C2'	5.55	1.59	1.52
3	A1	723	U	N3-C4	-5.55	1.33	1.38
3	A1	781	A	C5-C6	5.55	1.46	1.41
3	A1	1234	C	C4-C5	5.55	1.47	1.43
3	A1	1361	G	N7-C5	5.55	1.42	1.39
20	AU	33	GLY	N-CA	5.55	1.54	1.46
24	BA	108	A	C6-N6	-5.55	1.29	1.33
25	BB	544	C	C4-N4	-5.55	1.28	1.33
25	BB	856	G	C6-N1	-5.55	1.35	1.39
25	BB	977	G	C3'-C2'	5.55	1.59	1.52
25	BB	1740	G	C3'-C2'	5.55	1.59	1.52
25	BB	2514	U	C4'-C3'	5.55	1.59	1.53
25	BB	2718	G	C5-C4	5.55	1.42	1.38
3	A1	255	G	C2-N2	-5.55	1.29	1.34
3	A1	305	G	C4'-C3'	5.55	1.59	1.53
3	A1	319	G	N9-C8	-5.55	1.33	1.37
3	A1	626	G	N9-C4	5.55	1.42	1.38
3	A1	1123	U	C5-C6	5.55	1.39	1.34
3	A1	1402	C	C4-N4	-5.55	1.28	1.33
25	BB	407	G	P-O5'	5.55	1.65	1.59
25	BB	516	C	C3'-C2'	5.55	1.59	1.52
25	BB	636	G	N3-C4	5.55	1.39	1.35
25	BB	745	G	C6-O6	5.55	1.29	1.24
25	BB	1994	C	C4'-O4'	-5.55	1.38	1.45
49	BZ	204	TYR	CG-CD1	5.55	1.46	1.39
3	A1	171	A	O4'-C1'	5.55	1.48	1.41
3	A1	685	G	C2-N2	-5.55	1.29	1.34
25	BB	1152	C	C2'-C1'	5.55	1.59	1.53
25	BB	1684	G	O4'-C1'	5.55	1.48	1.41
25	BB	2050	C	C4-N4	-5.55	1.28	1.33
25	BB	2176	A	O3'-P	-5.55	1.54	1.61
1	AE	29	A	P-O5'	5.55	1.65	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	622	A	C6-N6	-5.55	1.29	1.33
25	BB	177	G	C6-N1	-5.55	1.35	1.39
25	BB	289	G	N1-C2	-5.55	1.33	1.37
25	BB	679	C	C4-N4	-5.55	1.28	1.33
25	BB	1416	G	C5-C4	-5.55	1.34	1.38
25	BB	1707	G	C8-N7	5.55	1.34	1.30
25	BB	2300	C	N1-C6	5.55	1.40	1.37
31	BH	49	VAL	N-CA	5.55	1.57	1.46
42	BS	59	ARG	CZ-NH2	-5.55	1.25	1.33
22	AW	9	GLY	N-CA	5.54	1.54	1.46
24	BA	69	G	O3'-P	-5.54	1.54	1.61
24	BA	81	G	C2-N2	-5.54	1.29	1.34
25	BB	1572	A	N7-C5	5.54	1.42	1.39
25	BB	2111	U	N1-C6	5.54	1.43	1.38
25	BB	2436	G	C2-N3	5.54	1.37	1.32
1	AA	52	U	C2-N3	-5.54	1.33	1.37
1	AE	9	A	C8-N7	-5.54	1.27	1.31
3	A1	309	A	N9-C8	5.54	1.42	1.37
3	A1	613	C	C3'-C2'	5.54	1.59	1.52
3	A1	721	G	C4'-O4'	-5.54	1.38	1.45
25	BB	115	C	C2-O2	-5.54	1.19	1.24
25	BB	591	U	N3-C4	-5.54	1.33	1.38
25	BB	1142	A	C4'-O4'	-5.54	1.38	1.45
25	BB	1310	G	C2-N2	-5.54	1.29	1.34
25	BB	1635	A	N3-C4	5.54	1.38	1.34
25	BB	1765	U	C2-O2	5.54	1.27	1.22
25	BB	2652	C	C4'-O4'	-5.54	1.38	1.45
1	AE	35	A	N9-C4	-5.54	1.34	1.37
3	A1	314	C	C2-O2	-5.54	1.19	1.24
3	A1	323	U	C5-C6	5.54	1.39	1.34
3	A1	546	A	N9-C4	-5.54	1.34	1.37
3	A1	1198	G	C6-N1	-5.54	1.35	1.39
3	A1	1340	A	C1'-N9	5.54	1.57	1.48
17	AR	69	ARG	CZ-NH2	-5.54	1.25	1.33
25	BB	251	A	N7-C5	5.54	1.42	1.39
25	BB	687	C	C3'-O3'	5.54	1.50	1.42
25	BB	1026	G	N1-C2	-5.54	1.33	1.37
25	BB	1467	U	O3'-P	-5.54	1.54	1.61
25	BB	1510	G	C4'-O4'	-5.54	1.38	1.45
25	BB	2573	C	C4-C5	-5.54	1.38	1.43
25	BB	2606	C	C4-N4	-5.54	1.28	1.33
1	AE	5	A	C4'-C3'	-5.54	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	71	A	C3'-C2'	5.54	1.59	1.52
3	A1	201	G	N9-C8	-5.54	1.33	1.37
3	A1	687	A	N9-C4	-5.54	1.34	1.37
3	A1	1164	G	N9-C8	-5.54	1.33	1.37
3	A1	1521	C	C2-N3	5.54	1.40	1.35
25	BB	1309	G	C2-N2	-5.54	1.29	1.34
25	BB	1643	G	N3-C4	5.54	1.39	1.35
25	BB	2085	U	C4'-O4'	5.54	1.52	1.45
1	AE	16	U	N1-C6	5.54	1.43	1.38
3	A1	230	G	C6-O6	-5.54	1.19	1.24
3	A1	620	C	C4-N4	-5.54	1.28	1.33
3	A1	827	U	C4'-C3'	5.54	1.59	1.53
3	A1	885	G	O3'-P	-5.54	1.54	1.61
3	A1	969	A	N3-C4	5.54	1.38	1.34
3	A1	1031	C	C4-C5	-5.54	1.38	1.43
3	A1	1457	G	C1'-N9	-5.54	1.39	1.46
25	BB	469	G	O4'-C1'	5.54	1.48	1.41
25	BB	776	G	P-O5'	5.54	1.65	1.59
25	BB	1015	U	C2-N3	5.54	1.41	1.37
25	BB	1270	C	C5'-C4'	5.54	1.57	1.51
25	BB	1354	A	C6-N1	-5.54	1.31	1.35
25	BB	2437	G	N7-C5	5.54	1.42	1.39
25	BB	2588	G	N7-C5	5.54	1.42	1.39
15	AO	157	GLY	CA-C	5.54	1.60	1.51
24	BA	83	G	N7-C5	-5.54	1.35	1.39
25	BB	1032	A	C8-N7	-5.54	1.27	1.31
25	BB	2083	G	N1-C2	5.54	1.42	1.37
25	BB	2750	A	N3-C4	5.54	1.38	1.34
3	A1	673	A	C6-N1	-5.54	1.31	1.35
3	A1	1019	A	P-O5'	-5.54	1.54	1.59
3	A1	1394	A	N7-C5	5.54	1.42	1.39
15	AO	64	ARG	CZ-NH2	-5.54	1.25	1.33
25	BB	265	A	N3-C4	5.54	1.38	1.34
25	BB	551	G	C5'-C4'	5.54	1.57	1.51
25	BB	944	C	N1-C6	-5.54	1.33	1.37
25	BB	1098	A	C6-N6	-5.54	1.29	1.33
25	BB	1204	A	C4'-C3'	5.54	1.59	1.53
25	BB	1818	U	C4'-C3'	5.54	1.59	1.53
25	BB	1880	U	C4'-O4'	-5.54	1.38	1.45
25	BB	2147	A	C5-C6	5.54	1.46	1.41
34	BK	34	GLU	CG-CD	5.54	1.60	1.51
36	BM	80	TRP	CG-CD2	5.54	1.53	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	964	A	N9-C8	5.53	1.42	1.37
3	A1	1034	G	N3-C4	5.53	1.39	1.35
3	A1	1175	G	C6-N1	-5.53	1.35	1.39
3	A1	1179	A	C5'-C4'	-5.53	1.44	1.51
3	A1	1252	A	N9-C8	-5.53	1.33	1.37
3	A1	1353	G	N9-C8	5.53	1.41	1.37
25	BB	1498	C	C4-N4	-5.53	1.28	1.33
25	BB	1511	G	N9-C4	-5.53	1.33	1.38
25	BB	1990	C	N1-C6	5.53	1.40	1.37
25	BB	2062	A	O3'-P	-5.53	1.54	1.61
25	BB	2161	C	N1-C2	5.53	1.45	1.40
25	BB	2697	G	C6-O6	-5.53	1.19	1.24
1	AP	26	G	N7-C5	-5.53	1.35	1.39
3	A1	293	G	N1-C2	-5.53	1.33	1.37
3	A1	1371	G	C5-C4	-5.53	1.34	1.38
20	AU	150	PHE	CG-CD2	5.53	1.47	1.38
3	A1	1240	U	C2-N3	5.53	1.41	1.37
3	A1	1522	U	C3'-C2'	5.53	1.59	1.52
25	BB	94	A	N9-C4	5.53	1.41	1.37
25	BB	493	G	P-O5'	5.53	1.65	1.59
25	BB	719	C	C5-C6	5.53	1.38	1.34
25	BB	1802	A	C2'-O2'	-5.53	1.34	1.41
25	BB	2083	G	C5-C4	5.53	1.42	1.38
42	BS	9	TYR	CE1-CZ	5.53	1.45	1.38
3	A1	446	G	C8-N7	-5.53	1.27	1.30
3	A1	1067	A	C5-C4	-5.53	1.34	1.38
25	BB	797	G	N7-C5	5.53	1.42	1.39
25	BB	1490	A	C6-N1	-5.53	1.31	1.35
25	BB	1599	U	O3'-P	-5.53	1.54	1.61
25	BB	2330	G	N9-C8	5.53	1.41	1.37
3	A1	1180	A	C5-C4	-5.53	1.34	1.38
6	AD	116	TYR	CD1-CE1	5.53	1.47	1.39
25	BB	533	G	C3'-C2'	5.53	1.59	1.52
25	BB	715	A	C5'-C4'	5.53	1.57	1.51
25	BB	729	G	N3-C4	5.53	1.39	1.35
25	BB	756	A	N9-C4	5.53	1.41	1.37
25	BB	1006	C	C2'-C1'	5.53	1.59	1.53
25	BB	1608	A	C5-C4	-5.53	1.34	1.38
25	BB	2239	G	C2-N2	-5.53	1.29	1.34
25	BB	2358	A	C4'-O4'	-5.53	1.38	1.45
25	BB	2407	A	N3-C4	5.53	1.38	1.34
3	A1	1411	C	N1-C6	5.53	1.40	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	460	A	C6-N6	-5.53	1.29	1.33
25	BB	690	G	N9-C4	5.53	1.42	1.38
25	BB	1423	G	N7-C5	5.53	1.42	1.39
25	BB	1488	C	N3-C4	-5.53	1.30	1.33
25	BB	1593	A	C5-C6	-5.53	1.36	1.41
25	BB	1910	G	O3'-P	5.53	1.67	1.61
25	BB	2384	U	C4-C5	-5.53	1.38	1.43
1	AE	46	G	C6-N1	-5.52	1.35	1.39
3	A1	302	G	C5-C6	5.52	1.47	1.42
3	A1	1061	G	N7-C5	5.52	1.42	1.39
25	BB	559	G	N7-C5	-5.52	1.35	1.39
25	BB	678	C	O3'-P	-5.52	1.54	1.61
25	BB	1062	G	N3-C4	5.52	1.39	1.35
25	BB	1518	C	C4-N4	-5.52	1.28	1.33
25	BB	1852	U	N1-C6	5.52	1.43	1.38
1	AE	4	G	N7-C5	5.52	1.42	1.39
1	AE	32	C	C2'-C1'	5.52	1.59	1.53
3	A1	134	G	N3-C4	5.52	1.39	1.35
25	BB	1382	G	C2-N3	-5.52	1.28	1.32
25	BB	1769	U	N3-C4	-5.52	1.33	1.38
25	BB	1952	A	N9-C4	5.52	1.41	1.37
25	BB	2066	C	C4'-O4'	-5.52	1.38	1.45
25	BB	2843	G	C5-C4	5.52	1.42	1.38
1	AP	64	A	N7-C5	5.52	1.42	1.39
3	A1	385	C	N3-C4	-5.52	1.30	1.33
25	BB	387	U	C5-C6	5.52	1.39	1.34
25	BB	1746	A	C4'-O4'	-5.52	1.38	1.45
25	BB	2490	G	C2-N2	-5.52	1.29	1.34
25	BB	2630	G	O4'-C1'	5.52	1.48	1.41
25	BB	2638	G	C5-C6	5.52	1.47	1.42
1	AP	34	G	N1-C2	-5.52	1.33	1.37
3	A1	608	A	N3-C4	5.52	1.38	1.34
3	A1	1079	G	C2-N3	5.52	1.37	1.32
3	A1	1406	U	C4-C5	5.52	1.48	1.43
3	A1	1491	G	C5'-C4'	5.52	1.57	1.51
24	BA	90	C	N1-C6	-5.52	1.33	1.37
25	BB	294	A	N9-C4	-5.52	1.34	1.37
25	BB	1317	G	C2-N2	-5.52	1.29	1.34
25	BB	1563	U	O3'-P	-5.52	1.54	1.61
25	BB	2041	U	C4-C5	5.52	1.48	1.43
25	BB	2246	G	N1-C2	-5.52	1.33	1.37
25	BB	2421	G	N7-C5	5.52	1.42	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2679	A	P-O5'	-5.52	1.54	1.59
25	BB	2700	A	N1-C2	-5.52	1.29	1.34
3	A1	261	U	C4'-O4'	-5.52	1.38	1.45
3	A1	362	G	O3'-P	-5.52	1.54	1.61
3	A1	833	G	C2-N3	5.52	1.37	1.32
3	A1	917	G	C5-C4	5.52	1.42	1.38
25	BB	721	A	C5-C6	5.52	1.46	1.41
25	BB	750	A	C6-N1	-5.52	1.31	1.35
25	BB	1969	A	C5-C4	-5.52	1.34	1.38
25	BB	2179	C	C1'-N1	5.52	1.57	1.48
25	BB	2279	G	C2'-C1'	5.52	1.59	1.53
30	BG	96	ARG	CZ-NH1	-5.52	1.25	1.33
3	A1	1221	G	C2-N3	5.52	1.37	1.32
3	A1	1421	G	C2-N2	-5.52	1.29	1.34
25	BB	653	U	C2-O2	5.52	1.27	1.22
25	BB	693	A	N1-C2	-5.52	1.29	1.34
25	BB	1346	G	C6-N1	5.52	1.43	1.39
25	BB	2129	C	N3-C4	-5.52	1.30	1.33
28	BE	58	TYR	CD2-CE2	5.52	1.47	1.39
3	A1	34	C	C2'-O2'	5.51	1.48	1.41
3	A1	71	A	O4'-C1'	5.51	1.48	1.41
3	A1	451	A	C6-N6	-5.51	1.29	1.33
3	A1	728	A	C2'-O2'	5.51	1.48	1.41
3	A1	742	G	C5-C6	5.51	1.47	1.42
3	A1	783	C	C2'-C1'	5.51	1.59	1.53
3	A1	991	U	C4-C5	5.51	1.48	1.43
25	BB	625	G	C4'-O4'	-5.51	1.38	1.45
25	BB	1994	C	N3-C4	-5.51	1.30	1.33
25	BB	2171	A	C6-N6	-5.51	1.29	1.33
25	BB	2298	A	N1-C2	-5.51	1.29	1.34
25	BB	2337	G	C5-C6	5.51	1.47	1.42
25	BB	2783	U	C4'-C3'	-5.51	1.47	1.52
43	BT	51	ARG	CZ-NH1	-5.51	1.25	1.33
3	A1	794	A	N9-C8	-5.51	1.33	1.37
3	A1	1262	C	N1-C6	-5.51	1.33	1.37
10	AI	17	TYR	CD2-CE2	5.51	1.47	1.39
25	BB	283	G	P-O5'	5.51	1.65	1.59
25	BB	1206	G	C2'-C1'	-5.51	1.47	1.53
25	BB	2595	G	C2-N3	-5.51	1.28	1.32
1	AP	18	G	C4'-O4'	-5.51	1.38	1.45
3	A1	28	A	P-O5'	5.51	1.65	1.59
3	A1	195	A	C6-N1	-5.51	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	211	G	C2-N2	-5.51	1.29	1.34
3	A1	1185	G	C2-N2	-5.51	1.29	1.34
25	BB	824	U	C4-O4	-5.51	1.19	1.23
25	BB	1900	A	N9-C8	-5.51	1.33	1.37
25	BB	2450	A	N7-C5	5.51	1.42	1.39
26	BC	57	TYR	CG-CD2	5.51	1.46	1.39
1	AA	7	U	P-O5'	-5.51	1.54	1.59
3	A1	647	C	N3-C4	-5.51	1.30	1.33
3	A1	881	G	N9-C8	-5.51	1.33	1.37
3	A1	1246	A	C8-N7	5.51	1.35	1.31
25	BB	216	A	C8-N7	5.51	1.35	1.31
25	BB	956	G	N7-C5	5.51	1.42	1.39
25	BB	1253	A	O4'-C1'	-5.51	1.34	1.41
25	BB	2564	A	C6-N6	-5.51	1.29	1.33
25	BB	2581	G	C2'-C1'	5.51	1.59	1.53
41	BR	15	ARG	CZ-NH2	-5.51	1.25	1.33
1	AP	58	A	C6-N6	-5.51	1.29	1.33
3	A1	548	G	C2-N2	-5.51	1.29	1.34
3	A1	1127	G	C8-N7	5.51	1.34	1.30
24	BA	34	A	C3'-C2'	5.51	1.59	1.52
25	BB	1265	A	N7-C5	5.51	1.42	1.39
25	BB	1577	C	C2'-O2'	5.51	1.48	1.41
25	BB	1739	A	C4'-C3'	5.51	1.59	1.53
1	AE	26	G	N9-C4	-5.51	1.33	1.38
3	A1	445	G	C3'-C2'	5.51	1.59	1.52
3	A1	840	C	C5-C6	-5.51	1.29	1.34
24	BA	11	C	C4'-C3'	5.51	1.59	1.53
25	BB	648	G	N1-C2	-5.51	1.33	1.37
25	BB	893	C	C4-N4	-5.51	1.28	1.33
25	BB	933	A	C6-N6	-5.51	1.29	1.33
25	BB	1210	G	N1-C2	-5.51	1.33	1.37
25	BB	1598	A	N1-C2	-5.51	1.29	1.34
25	BB	2088	A	P-O5'	-5.51	1.54	1.59
25	BB	2147	A	C8-N7	-5.51	1.27	1.31
25	BB	2435	A	C8-N7	5.51	1.35	1.31
25	BB	2475	C	N1-C6	5.51	1.40	1.37
3	A1	932	C	P-O5'	-5.50	1.54	1.59
24	BA	91	C	C4-N4	-5.50	1.28	1.33
25	BB	1168	G	C8-N7	-5.50	1.27	1.30
25	BB	2006	C	C3'-C2'	5.50	1.59	1.52
2	AM	2	U	C4-C5	5.50	1.48	1.43
3	A1	84	U	N3-C4	-5.50	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	724	G	C8-N7	5.50	1.34	1.30
3	A1	1267	C	N3-C4	-5.50	1.30	1.33
3	A1	1390	U	C5-C6	5.50	1.39	1.34
3	A1	1491	G	N1-C2	-5.50	1.33	1.37
25	BB	124	G	N1-C2	-5.50	1.33	1.37
25	BB	1017	G	C5-C4	5.50	1.42	1.38
25	BB	1034	G	C2'-C1'	-5.50	1.47	1.53
25	BB	1565	C	C5-C6	-5.50	1.29	1.34
25	BB	1612	C	C2-N3	5.50	1.40	1.35
25	BB	2048	G	P-O5'	5.50	1.65	1.59
25	BB	2692	G	N7-C5	5.50	1.42	1.39
3	A1	181	A	C3'-O3'	5.50	1.49	1.42
3	A1	429	U	C5-C6	5.50	1.39	1.34
3	A1	462	G	C5-C6	5.50	1.47	1.42
3	A1	1173	U	C4-O4	-5.50	1.19	1.23
3	A1	1278	G	C2-N2	-5.50	1.29	1.34
3	A1	1459	G	C8-N7	5.50	1.34	1.30
25	BB	71	A	C3'-C2'	5.50	1.59	1.52
25	BB	1011	G	C2'-C1'	-5.50	1.47	1.53
25	BB	1194	A	C5-C4	5.50	1.42	1.38
25	BB	1804	C	N3-C4	-5.50	1.30	1.33
25	BB	1853	A	C6-N1	-5.50	1.31	1.35
25	BB	2156	G	O3'-P	-5.50	1.54	1.61
25	BB	2174	C	C4'-O4'	-5.50	1.38	1.45
25	BB	2534	A	N3-C4	5.50	1.38	1.34
1	AA	75	C	N3-C4	-5.50	1.30	1.33
3	A1	726	C	C5'-C4'	5.50	1.57	1.51
3	A1	1220	G	C4'-O4'	-5.50	1.38	1.45
25	BB	1322	A	C6-N1	-5.50	1.31	1.35
25	BB	2892	G	C5'-C4'	5.50	1.57	1.51
3	A1	65	A	C3'-O3'	5.50	1.49	1.42
3	A1	989	U	C2-N3	-5.50	1.33	1.37
3	A1	1492	A	C5'-C4'	5.50	1.57	1.51
3	A1	1512	U	C4'-O4'	-5.50	1.38	1.45
24	BA	100	G	N1-C2	-5.50	1.33	1.37
25	BB	107	G	C4'-C3'	-5.50	1.47	1.52
25	BB	237	C	N3-C4	-5.50	1.30	1.33
25	BB	497	A	N7-C5	5.50	1.42	1.39
25	BB	602	A	N7-C5	5.50	1.42	1.39
25	BB	1653	G	N9-C8	-5.50	1.34	1.37
25	BB	1685	C	C3'-C2'	-5.50	1.46	1.52
25	BB	1940	U	N1-C2	5.50	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2083	G	C2-N2	-5.50	1.29	1.34
25	BB	2313	C	C3'-C2'	5.50	1.58	1.52
25	BB	2751	G	C5-C6	5.50	1.47	1.42
25	BB	2763	G	C4'-O4'	-5.50	1.38	1.45
1	AE	15	G	C5-C6	5.50	1.47	1.42
3	A1	243	A	N9-C8	-5.50	1.33	1.37
3	A1	264	C	N1-C6	5.50	1.40	1.37
3	A1	381	C	C4-N4	-5.50	1.29	1.33
3	A1	529	G	N9-C8	5.50	1.41	1.37
3	A1	833	G	C5-C6	5.50	1.47	1.42
3	A1	1175	G	C2-N2	-5.50	1.29	1.34
3	A1	1426	G	C2-N2	-5.50	1.29	1.34
24	BA	53	A	C6-N1	-5.50	1.31	1.35
25	BB	27	G	C2-N3	-5.50	1.28	1.32
25	BB	122	G	N1-C2	-5.50	1.33	1.37
25	BB	161	A	C4'-O4'	-5.50	1.38	1.45
25	BB	676	A	C5'-C4'	5.50	1.57	1.51
25	BB	856	G	C5'-C4'	5.50	1.57	1.51
25	BB	1773	A	N3-C4	5.50	1.38	1.34
25	BB	1813	G	O3'-P	-5.50	1.54	1.61
25	BB	2204	G	C2-N2	-5.50	1.29	1.34
25	BB	2256	G	N7-C5	5.50	1.42	1.39
25	BB	2501	C	C2-N3	5.50	1.40	1.35
3	A1	138	G	N1-C2	-5.50	1.33	1.37
3	A1	1361	G	C4'-O4'	-5.50	1.38	1.45
25	BB	1453	A	C5-C4	-5.50	1.34	1.38
3	A1	353	A	C4'-C3'	5.49	1.59	1.53
3	A1	606	G	C4'-O4'	-5.49	1.38	1.45
3	A1	1062	U	O4'-C1'	5.49	1.48	1.41
3	A1	1128	C	C5-C6	-5.49	1.29	1.34
3	A1	1469	C	O3'-P	-5.49	1.54	1.61
24	BA	31	C	P-O5'	-5.49	1.54	1.59
24	BA	47	C	C2'-C1'	5.49	1.59	1.53
25	BB	352	A	N9-C4	5.49	1.41	1.37
25	BB	523	C	C2-N3	5.49	1.40	1.35
25	BB	1346	G	C2-N2	-5.49	1.29	1.34
25	BB	1599	U	C2'-C1'	5.49	1.59	1.53
25	BB	2095	A	N7-C5	-5.49	1.35	1.39
25	BB	2163	A	C6-N6	-5.49	1.29	1.33
25	BB	2530	A	C6-N6	-5.49	1.29	1.33
3	A1	213	G	C5-C4	5.49	1.42	1.38
3	A1	990	C	O5'-C5'	-5.49	1.34	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1047	G	N3-C4	5.49	1.39	1.35
3	A1	1295	U	C5-C6	5.49	1.39	1.34
3	A1	1504	G	C2'-C1'	5.49	1.59	1.53
3	A1	1515	G	C2-N3	5.49	1.37	1.32
25	BB	1603	A	C4'-C3'	-5.49	1.47	1.52
25	BB	2400	G	N9-C4	-5.49	1.33	1.38
3	A1	581	G	C6-N1	5.49	1.43	1.39
3	A1	777	A	C6-N1	-5.49	1.31	1.35
25	BB	71	A	C6-N6	-5.49	1.29	1.33
25	BB	1470	A	C5'-C4'	5.49	1.57	1.51
25	BB	1935	G	C2-N2	-5.49	1.29	1.34
25	BB	2496	C	C4-C5	-5.49	1.38	1.43
1	AA	29	A	C3'-C2'	5.49	1.58	1.52
2	AM	12	U	C4-O4	-5.49	1.19	1.23
3	A1	664	G	C6-O6	-5.49	1.19	1.24
3	A1	1086	U	C5-C6	5.49	1.39	1.34
24	BA	60	C	C2'-O2'	5.49	1.48	1.41
25	BB	213	A	O5'-C5'	-5.49	1.34	1.42
25	BB	583	G	C4'-O4'	-5.49	1.38	1.45
25	BB	1119	U	C3'-C2'	5.49	1.58	1.52
25	BB	1570	A	C5-C4	-5.49	1.34	1.38
25	BB	1870	C	C4-N4	-5.49	1.29	1.33
25	BB	2420	C	C4-C5	-5.49	1.38	1.43
3	A1	701	U	N1-C2	5.49	1.43	1.38
25	BB	1596	A	N7-C5	5.49	1.42	1.39
3	A1	1179	A	N7-C5	5.49	1.42	1.39
3	A1	1205	U	C4'-O4'	-5.49	1.38	1.45
25	BB	92	U	P-O5'	5.49	1.65	1.59
25	BB	291	G	C4'-O4'	-5.49	1.38	1.45
25	BB	315	G	N1-C2	-5.49	1.33	1.37
25	BB	459	U	C2-O2	5.49	1.27	1.22
25	BB	984	A	N3-C4	5.49	1.38	1.34
25	BB	1966	A	C3'-C2'	5.49	1.58	1.52
3	A1	416	G	O4'-C1'	-5.48	1.34	1.41
3	A1	663	A	N7-C5	5.48	1.42	1.39
3	A1	1300	G	N9-C4	5.48	1.42	1.38
25	BB	742	A	N9-C8	5.48	1.42	1.37
25	BB	1534	U	C2-O2	5.48	1.27	1.22
25	BB	2080	A	P-O5'	5.48	1.65	1.59
3	A1	6	G	C8-N7	-5.48	1.27	1.30
3	A1	146	G	N9-C4	-5.48	1.33	1.38
3	A1	511	C	P-O5'	-5.48	1.54	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1438	G	N1-C2	-5.48	1.33	1.37
25	BB	361	G	C5-C4	5.48	1.42	1.38
25	BB	447	A	N1-C2	-5.48	1.29	1.34
25	BB	502	A	N9-C8	5.48	1.42	1.37
25	BB	738	G	O5'-C5'	-5.48	1.34	1.42
25	BB	913	U	C5'-C4'	5.48	1.57	1.51
25	BB	1354	A	N9-C8	-5.48	1.33	1.37
25	BB	1389	G	C5'-C4'	5.48	1.57	1.51
25	BB	1532	A	N7-C5	5.48	1.42	1.39
25	BB	1995	U	N1-C6	5.48	1.42	1.38
37	BN	170	TYR	CE2-CZ	5.48	1.45	1.38
1	AP	68	U	P-O5'	5.48	1.65	1.59
3	A1	513	C	O3'-P	-5.48	1.54	1.61
24	BA	82	U	P-O5'	-5.48	1.54	1.59
25	BB	280	U	C1'-N1	5.48	1.56	1.48
25	BB	394	C	C3'-C2'	5.48	1.58	1.52
25	BB	751	A	N9-C4	5.48	1.41	1.37
25	BB	841	G	C6-N1	-5.48	1.35	1.39
25	BB	1340	U	O3'-P	-5.48	1.54	1.61
25	BB	1532	A	C5-C4	-5.48	1.34	1.38
25	BB	1635	A	C5-C4	-5.48	1.34	1.38
25	BB	1694	C	C2-O2	-5.48	1.19	1.24
25	BB	2625	G	C5-C6	5.48	1.47	1.42
25	BB	844	A	C5-C6	5.48	1.46	1.41
25	BB	1244	A	O3'-P	-5.48	1.54	1.61
3	A1	170	U	C4'-O4'	-5.48	1.38	1.45
3	A1	509	A	N3-C4	5.48	1.38	1.34
3	A1	871	U	C4'-C3'	5.48	1.59	1.53
3	A1	1037	C	C4-N4	-5.48	1.29	1.33
3	A1	1260	G	N7-C5	5.48	1.42	1.39
25	BB	66	C	C4'-O4'	-5.48	1.38	1.45
25	BB	1655	A	C4'-O4'	-5.48	1.38	1.45
25	BB	1676	A	N9-C4	-5.48	1.34	1.37
25	BB	1883	U	C2-O2	5.48	1.27	1.22
25	BB	2665	A	C5-C4	5.48	1.42	1.38
25	BB	2718	G	N3-C4	-5.48	1.31	1.35
27	BD	71	ARG	CZ-NH2	-5.48	1.25	1.33
3	A1	1014	A	C4'-C3'	5.48	1.59	1.53
3	A1	1159	U	O3'-P	-5.48	1.54	1.61
3	A1	1395	C	C2-O2	-5.48	1.19	1.24
25	BB	527	C	N1-C2	5.48	1.45	1.40
25	BB	801	G	C2-N3	-5.48	1.28	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	5	A	O3'-P	-5.47	1.54	1.61
1	AA	45	G	N1-C2	-5.47	1.33	1.37
3	A1	727	G	C2-N2	-5.47	1.29	1.34
3	A1	865	A	C5'-C4'	5.47	1.57	1.51
3	A1	969	A	N9-C8	5.47	1.42	1.37
25	BB	122	G	C2-N3	-5.47	1.28	1.32
25	BB	350	G	N3-C4	5.47	1.39	1.35
25	BB	422	A	N1-C2	-5.47	1.29	1.34
25	BB	1025	G	N3-C4	-5.47	1.31	1.35
25	BB	1072	C	C4'-O4'	-5.47	1.38	1.45
25	BB	1368	G	N3-C4	5.47	1.39	1.35
25	BB	1775	U	C4'-O4'	-5.47	1.38	1.45
25	BB	2130	U	C2-O2	-5.47	1.17	1.22
25	BB	2209	G	C2-N3	-5.47	1.28	1.32
25	BB	2277	G	C2-N2	-5.47	1.29	1.34
25	BB	2351	G	C8-N7	5.47	1.34	1.30
52	B3	94	ARG	CD-NE	5.47	1.55	1.46
3	A1	311	C	P-O5'	-5.47	1.54	1.59
3	A1	523	A	C3'-O3'	-5.47	1.34	1.42
3	A1	810	C	C4'-C3'	5.47	1.59	1.53
3	A1	981	U	C4-C5	5.47	1.48	1.43
3	A1	1346	A	N9-C4	-5.47	1.34	1.37
3	A1	1423	G	C5'-C4'	5.47	1.57	1.51
24	BA	17	C	O3'-P	-5.47	1.54	1.61
25	BB	595	C	C2-O2	-5.47	1.19	1.24
25	BB	1138	G	C2-N3	5.47	1.37	1.32
25	BB	1945	G	N3-C4	5.47	1.39	1.35
25	BB	2515	C	C4'-C3'	5.47	1.59	1.53
3	A1	426	U	N1-C2	5.47	1.43	1.38
3	A1	1448	C	N3-C4	-5.47	1.30	1.33
3	A1	1531	A	C4'-O4'	-5.47	1.38	1.45
25	BB	883	G	C3'-C2'	5.47	1.58	1.52
25	BB	2658	C	C4-N4	-5.47	1.29	1.33
1	AA	1	G	N3-C4	5.47	1.39	1.35
3	A1	567	G	N9-C8	-5.47	1.34	1.37
3	A1	635	A	C2-N3	5.47	1.38	1.33
3	A1	960	U	C4-O4	-5.47	1.19	1.23
25	BB	622	G	C4'-C3'	-5.47	1.47	1.52
25	BB	964	C	C3'-O3'	5.47	1.49	1.42
25	BB	1564	C	C4'-O4'	-5.47	1.38	1.45
25	BB	1617	C	C5'-C4'	5.47	1.57	1.51
25	BB	1627	G	N9-C8	5.47	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1773	A	C5-C6	5.47	1.46	1.41
3	A1	989	U	C3'-C2'	5.47	1.58	1.52
3	A1	1417	G	N3-C4	5.47	1.39	1.35
25	BB	395	U	C4-C5	5.47	1.48	1.43
25	BB	2372	U	C5-C6	5.47	1.39	1.34
25	BB	2594	C	N3-C4	-5.47	1.30	1.33
25	BB	2706	A	C8-N7	5.47	1.35	1.31
1	AP	59	U	C4-C5	5.47	1.48	1.43
3	A1	650	G	C5'-C4'	5.47	1.57	1.51
3	A1	1040	U	N1-C2	5.47	1.43	1.38
3	A1	1062	U	C5'-C4'	5.47	1.57	1.51
3	A1	1198	G	C5'-C4'	5.47	1.57	1.51
24	BA	43	C	N1-C6	5.47	1.40	1.37
25	BB	163	C	C3'-O3'	5.47	1.49	1.42
25	BB	311	A	C8-N7	-5.47	1.27	1.31
25	BB	1022	G	O3'-P	-5.47	1.54	1.61
25	BB	1071	G	C2'-O2'	5.47	1.48	1.41
25	BB	1080	A	N7-C5	5.47	1.42	1.39
25	BB	1720	U	N3-C4	-5.47	1.33	1.38
25	BB	1921	G	N1-C2	-5.47	1.33	1.37
25	BB	2318	G	C5-C4	-5.47	1.34	1.38
1	AP	58	A	C5-C6	5.46	1.46	1.41
3	A1	663	A	C5-C4	-5.46	1.34	1.38
3	A1	674	G	C5'-C4'	5.46	1.57	1.51
3	A1	983	A	P-O5'	-5.46	1.54	1.59
6	AD	96	THR	CB-OG1	-5.46	1.32	1.43
24	BA	112	G	C3'-C2'	5.46	1.58	1.52
25	BB	225	C	N1-C6	5.46	1.40	1.37
25	BB	974	G	P-O5'	5.46	1.65	1.59
25	BB	2150	C	C4-N4	-5.46	1.29	1.33
25	BB	2299	U	N3-C4	-5.46	1.33	1.38
25	BB	2333	A	O4'-C1'	5.46	1.48	1.41
25	BB	2334	U	C2-O2	5.46	1.27	1.22
25	BB	2684	U	C3'-C2'	5.46	1.58	1.52
1	AP	10	G	P-O5'	5.46	1.65	1.59
3	A1	306	A	P-O5'	5.46	1.65	1.59
3	A1	361	G	C8-N7	5.46	1.34	1.30
3	A1	795	C	C5-C6	5.46	1.38	1.34
3	A1	941	G	N9-C4	-5.46	1.33	1.38
25	BB	437	U	C3'-C2'	5.46	1.58	1.52
25	BB	855	G	C5-C6	5.46	1.47	1.42
2	AM	12	U	N3-C4	-5.46	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	11	G	O3'-P	-5.46	1.54	1.61
3	A1	148	G	O3'-P	-5.46	1.54	1.61
3	A1	213	G	C4'-O4'	-5.46	1.38	1.45
3	A1	1309	G	C4'-C3'	5.46	1.59	1.53
3	A1	1489	G	C3'-C2'	5.46	1.58	1.52
3	A1	1513	A	C6-N6	-5.46	1.29	1.33
25	BB	186	G	C6-N1	-5.46	1.35	1.39
25	BB	241	A	C6-N1	-5.46	1.31	1.35
25	BB	635	C	C2-N3	-5.46	1.31	1.35
25	BB	642	U	N1-C2	5.46	1.43	1.38
25	BB	743	A	C2'-C1'	5.46	1.59	1.53
25	BB	939	G	N9-C8	5.46	1.41	1.37
25	BB	1546	G	C5-C6	5.46	1.47	1.42
25	BB	2252	G	C5'-C4'	5.46	1.57	1.51
25	BB	2341	G	C2-N3	5.46	1.37	1.32
25	BB	2538	C	N1-C6	-5.46	1.33	1.37
25	BB	2560	A	C4'-O4'	-5.46	1.38	1.45
3	A1	1007	U	C5-C6	5.46	1.39	1.34
3	A1	1064	G	C4'-O4'	-5.46	1.38	1.45
20	AU	95	ARG	CZ-NH2	-5.46	1.25	1.33
24	BA	62	C	N1-C6	5.46	1.40	1.37
24	BA	76	G	O3'-P	-5.46	1.54	1.61
25	BB	35	G	N3-C4	5.46	1.39	1.35
25	BB	52	A	C6-N6	-5.46	1.29	1.33
25	BB	703	U	C4'-O4'	-5.46	1.38	1.45
25	BB	740	C	C4-N4	-5.46	1.29	1.33
25	BB	950	G	N3-C4	5.46	1.39	1.35
25	BB	1270	C	N1-C6	5.46	1.40	1.37
25	BB	2266	A	N7-C5	5.46	1.42	1.39
25	BB	2766	A	C5'-C4'	5.46	1.57	1.51
3	A1	85	U	C5'-C4'	5.46	1.57	1.51
3	A1	1149	C	C2-O2	-5.46	1.19	1.24
3	A1	1395	C	N1-C6	5.46	1.40	1.37
3	A1	1399	C	C5'-C4'	5.46	1.57	1.51
3	A1	1455	G	N7-C5	5.46	1.42	1.39
25	BB	65	U	C3'-C2'	5.46	1.58	1.52
25	BB	329	G	C2'-C1'	-5.46	1.47	1.53
25	BB	763	G	C6-N1	-5.46	1.35	1.39
25	BB	1616	A	C6-N1	-5.46	1.31	1.35
25	BB	1654	A	C6-N6	-5.46	1.29	1.33
25	BB	2183	A	P-O5'	5.46	1.65	1.59
25	BB	2453	A	C5-C4	-5.46	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2761	A	N1-C2	-5.46	1.29	1.34
52	B3	117	PRO	CA-C	5.46	1.63	1.52
3	A1	194	C	N1-C6	5.46	1.40	1.37
3	A1	534	U	N1-C6	-5.46	1.33	1.38
3	A1	889	A	N7-C5	-5.46	1.35	1.39
3	A1	936	C	C5'-C4'	5.46	1.57	1.51
3	A1	1002	G	N9-C8	5.46	1.41	1.37
3	A1	1177	G	C2-N2	-5.46	1.29	1.34
18	AS	53	ARG	CZ-NH2	-5.46	1.25	1.33
23	AX	31	ARG	CZ-NH1	-5.46	1.25	1.33
24	BA	97	C	P-O5'	5.46	1.65	1.59
25	BB	214	G	N9-C8	5.46	1.41	1.37
25	BB	266	G	C2-N2	-5.46	1.29	1.34
25	BB	364	C	C4-C5	-5.46	1.38	1.43
25	BB	381	G	C2-N3	5.46	1.37	1.32
25	BB	439	A	C4'-C3'	-5.46	1.47	1.52
25	BB	971	G	C2-N2	-5.46	1.29	1.34
25	BB	1874	C	P-O5'	-5.46	1.54	1.59
25	BB	2355	G	C8-N7	-5.46	1.27	1.30
25	BB	2725	A	C6-N6	-5.46	1.29	1.33
3	A1	38	G	C2-N2	-5.46	1.29	1.34
3	A1	619	U	C5'-C4'	5.46	1.57	1.51
3	A1	800	G	C6-N1	-5.46	1.35	1.39
3	A1	1175	G	O4'-C1'	-5.46	1.34	1.41
8	AG	84	ARG	CZ-NH2	-5.46	1.25	1.33
25	BB	1215	G	C2-N2	-5.46	1.29	1.34
25	BB	1689	A	C5'-C4'	5.46	1.57	1.51
25	BB	1965	C	C4-N4	-5.46	1.29	1.33
25	BB	2401	U	C4'-O4'	-5.46	1.38	1.45
25	BB	2726	A	C8-N7	-5.46	1.27	1.31
3	A1	42	G	N9-C8	5.45	1.41	1.37
3	A1	127	G	O3'-P	-5.45	1.54	1.61
3	A1	1284	C	C4'-O4'	-5.45	1.38	1.45
25	BB	676	A	C3'-C2'	5.45	1.58	1.52
25	BB	924	G	N1-C2	-5.45	1.33	1.37
25	BB	1134	A	N9-C4	5.45	1.41	1.37
25	BB	2122	U	C5-C6	5.45	1.39	1.34
43	BT	49	ARG	CZ-NH1	-5.45	1.25	1.33
2	AM	3	U	C4'-O4'	-5.45	1.38	1.45
25	BB	1083	U	O3'-P	-5.45	1.54	1.61
25	BB	1667	G	N3-C4	5.45	1.39	1.35
25	BB	1995	U	C5-C6	5.45	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	AM	13	U	C3'-C2'	-5.45	1.46	1.52
3	A1	204	G	N9-C8	5.45	1.41	1.37
3	A1	241	G	C4'-C3'	5.45	1.59	1.53
3	A1	254	G	C2-N2	-5.45	1.29	1.34
3	A1	521	G	N1-C2	-5.45	1.33	1.37
3	A1	826	C	C2'-O2'	5.45	1.48	1.41
3	A1	968	A	C3'-C2'	5.45	1.58	1.52
25	BB	382	A	C4'-C3'	5.45	1.59	1.53
25	BB	1128	G	C4'-C3'	5.45	1.59	1.53
25	BB	1324	G	N9-C4	5.45	1.42	1.38
25	BB	1365	A	N1-C2	-5.45	1.29	1.34
25	BB	1660	G	C6-N1	-5.45	1.35	1.39
25	BB	1907	G	C6-N1	-5.45	1.35	1.39
25	BB	1978	A	C5-C4	-5.45	1.34	1.38
25	BB	2618	G	C6-N1	-5.45	1.35	1.39
25	BB	2761	A	P-O5'	5.45	1.65	1.59
3	A1	1062	U	C4'-O4'	-5.45	1.38	1.45
25	BB	411	G	N3-C4	5.45	1.39	1.35
25	BB	1504	A	C6-N1	-5.45	1.31	1.35
25	BB	1882	U	P-O5'	5.45	1.65	1.59
25	BB	2178	C	C5'-C4'	5.45	1.57	1.51
25	BB	2188	U	C4'-O4'	-5.45	1.38	1.45
25	BB	2281	A	C5'-C4'	5.45	1.57	1.51
25	BB	2297	A	N1-C2	-5.45	1.29	1.34
25	BB	2827	C	C4-C5	-5.45	1.38	1.43
33	BJ	49	ARG	CZ-NH1	-5.45	1.25	1.33
3	A1	1505	G	N9-C8	5.45	1.41	1.37
25	BB	242	G	C2'-C1'	5.45	1.59	1.53
25	BB	668	A	N3-C4	5.45	1.38	1.34
25	BB	836	G	C8-N7	-5.45	1.27	1.30
25	BB	1548	A	C5'-C4'	5.45	1.57	1.51
25	BB	2436	G	C5'-C4'	5.45	1.57	1.51
33	BJ	47	ARG	CZ-NH1	-5.45	1.25	1.33
2	AM	3	U	N1-C6	5.45	1.42	1.38
3	A1	19	A	N1-C2	-5.45	1.29	1.34
3	A1	203	G	C4'-C3'	5.45	1.59	1.53
3	A1	472	U	C2-O2	5.45	1.27	1.22
3	A1	1145	A	N9-C8	5.45	1.42	1.37
3	A1	1189	U	C5-C6	5.45	1.39	1.34
3	A1	1495	U	N1-C6	5.45	1.42	1.38
24	BA	58	A	C4'-O4'	-5.45	1.38	1.45
25	BB	515	A	N9-C8	-5.45	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1420	A	C5-C4	-5.45	1.34	1.38
25	BB	1598	A	C6-N6	-5.45	1.29	1.33
25	BB	1754	A	P-O5'	5.45	1.65	1.59
25	BB	1776	G	N7-C5	5.45	1.42	1.39
25	BB	2069	G	C8-N7	5.45	1.34	1.30
3	A1	61	G	C8-N7	5.44	1.34	1.30
3	A1	414	A	C6-N1	-5.44	1.31	1.35
3	A1	552	U	P-O5'	5.44	1.65	1.59
3	A1	594	U	C2-O2	5.44	1.27	1.22
3	A1	734	G	C5-C6	5.44	1.47	1.42
3	A1	1025	U	C4-C5	-5.44	1.38	1.43
25	BB	1407	G	C5'-C4'	5.44	1.57	1.51
25	BB	1549	A	O3'-P	-5.44	1.54	1.61
25	BB	1875	G	C5-C6	5.44	1.47	1.42
25	BB	2078	C	C4'-C3'	-5.44	1.47	1.52
25	BB	2828	G	N9-C4	5.44	1.42	1.38
3	A1	297	G	C8-N7	-5.44	1.27	1.30
3	A1	766	A	C4'-O4'	-5.44	1.38	1.45
3	A1	923	A	N1-C2	-5.44	1.29	1.34
3	A1	1391	U	C5'-C4'	5.44	1.57	1.51
25	BB	493	G	C4'-O4'	-5.44	1.38	1.45
25	BB	685	A	C6-N1	-5.44	1.31	1.35
25	BB	1593	A	C3'-C2'	5.44	1.58	1.52
25	BB	1776	G	C5'-C4'	5.44	1.57	1.51
25	BB	2250	G	N1-C2	-5.44	1.33	1.37
3	A1	245	U	P-O5'	-5.44	1.54	1.59
3	A1	452	A	C8-N7	5.44	1.35	1.31
3	A1	648	A	N1-C2	-5.44	1.29	1.34
25	BB	1034	G	O3'-P	-5.44	1.54	1.61
25	BB	1322	A	N3-C4	5.44	1.38	1.34
3	A1	608	A	N9-C8	-5.44	1.33	1.37
3	A1	945	G	C5-C4	-5.44	1.34	1.38
3	A1	1238	A	C2-N3	-5.44	1.28	1.33
24	BA	57	A	N9-C4	-5.44	1.34	1.37
25	BB	563	A	C4'-O4'	-5.44	1.38	1.45
25	BB	984	A	C5-C4	-5.44	1.34	1.38
25	BB	2165	C	C5-C6	5.44	1.38	1.34
3	A1	301	G	N1-C2	-5.44	1.33	1.37
3	A1	1019	A	C3'-O3'	5.44	1.49	1.42
3	A1	1256	A	N3-C4	-5.44	1.31	1.34
3	A1	1264	U	C2-N3	-5.44	1.33	1.37
3	A1	1407	C	C4'-O4'	-5.44	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	463	G	N7-C5	5.44	1.42	1.39
25	BB	851	C	O4'-C1'	5.44	1.48	1.41
25	BB	920	A	C5-C4	-5.44	1.34	1.38
25	BB	1032	A	C4'-O4'	-5.44	1.38	1.45
25	BB	1374	G	C3'-C2'	5.44	1.58	1.52
25	BB	1688	U	C5-C6	5.44	1.39	1.34
25	BB	2454	G	O3'-P	-5.44	1.54	1.61
25	BB	2511	U	C4-O4	5.44	1.28	1.23
3	A1	304	U	C2-N3	5.44	1.41	1.37
3	A1	785	G	C5'-C4'	5.44	1.57	1.51
25	BB	2028	U	C2'-O2'	5.44	1.48	1.41
25	BB	2424	C	C2'-C1'	5.44	1.59	1.53
3	A1	510	A	N3-C4	-5.43	1.31	1.34
3	A1	643	C	C4-N4	-5.43	1.29	1.33
25	BB	455	C	N1-C6	5.43	1.40	1.37
25	BB	696	G	C6-O6	-5.43	1.19	1.24
25	BB	1034	G	O4'-C1'	5.43	1.48	1.41
25	BB	1240	U	C4-O4	-5.43	1.19	1.23
25	BB	1797	G	C6-N1	-5.43	1.35	1.39
25	BB	1835	G	N1-C2	-5.43	1.33	1.37
25	BB	2321	U	C5-C6	5.43	1.39	1.34
25	BB	2641	G	P-O5'	5.43	1.65	1.59
3	A1	138	G	C5-C6	5.43	1.47	1.42
3	A1	308	C	C5'-C4'	5.43	1.57	1.51
3	A1	1262	C	C5-C6	5.43	1.38	1.34
25	BB	108	G	N9-C4	5.43	1.42	1.38
25	BB	131	A	O3'-P	-5.43	1.54	1.61
25	BB	1213	A	C3'-C2'	5.43	1.58	1.52
25	BB	2289	G	C2-N2	-5.43	1.29	1.34
25	BB	2569	G	N9-C8	5.43	1.41	1.37
3	A1	438	U	C3'-C2'	5.43	1.58	1.52
3	A1	993	G	N3-C4	5.43	1.39	1.35
25	BB	29	U	N1-C2	5.43	1.43	1.38
25	BB	235	U	N1-C2	5.43	1.43	1.38
25	BB	1250	G	C5-C6	5.43	1.47	1.42
1	AA	20	G	C3'-O3'	-5.43	1.34	1.42
2	AM	16	U	C5-C6	5.43	1.39	1.34
2	AM	17	U	C2'-C1'	5.43	1.59	1.53
3	A1	27	G	C2-N2	-5.43	1.29	1.34
3	A1	33	A	O3'-P	-5.43	1.54	1.61
3	A1	313	A	N7-C5	5.43	1.42	1.39
3	A1	484	G	C2-N3	5.43	1.37	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	734	G	C5-C4	-5.43	1.34	1.38
3	A1	1191	A	C1'-N9	5.43	1.56	1.48
24	BA	40	U	C2-N3	5.43	1.41	1.37
25	BB	587	C	N3-C4	-5.43	1.30	1.33
25	BB	1092	C	C4-C5	-5.43	1.38	1.43
25	BB	1734	G	C3'-C2'	5.43	1.58	1.52
25	BB	2094	A	N1-C2	5.43	1.39	1.34
25	BB	2474	U	O3'-P	-5.43	1.54	1.61
25	BB	2688	G	N9-C4	-5.43	1.33	1.38
1	AA	53	G	N9-C4	-5.43	1.33	1.38
3	A1	1480	A	C5-C6	5.43	1.46	1.41
24	BA	37	C	C4'-O4'	-5.43	1.38	1.45
25	BB	917	A	C5-C4	-5.43	1.34	1.38
25	BB	1979	U	N1-C2	5.43	1.43	1.38
3	A1	145	G	N7-C5	-5.43	1.35	1.39
3	A1	185	U	C4-O4	-5.43	1.19	1.23
3	A1	587	G	O3'-P	-5.43	1.54	1.61
3	A1	767	A	C5-C6	5.43	1.46	1.41
3	A1	858	G	C3'-C2'	5.43	1.58	1.52
3	A1	919	A	N3-C4	5.43	1.38	1.34
3	A1	1252	A	C8-N7	-5.43	1.27	1.31
17	AR	62	ARG	CZ-NH2	-5.43	1.25	1.33
25	BB	663	G	C2-N2	-5.43	1.29	1.34
25	BB	771	G	O3'-P	5.43	1.67	1.61
25	BB	799	G	N1-C2	-5.43	1.33	1.37
25	BB	1136	G	C8-N7	5.43	1.34	1.30
25	BB	1155	A	C4'-O4'	-5.43	1.38	1.45
25	BB	1678	A	N9-C8	-5.43	1.33	1.37
25	BB	1793	C	C4-N4	-5.43	1.29	1.33
25	BB	2377	A	C6-N1	-5.43	1.31	1.35
25	BB	2408	U	C4-O4	-5.43	1.19	1.23
30	BG	46	ARG	CZ-NH2	-5.43	1.25	1.33
53	B4	129	GLU	CG-CD	-5.43	1.43	1.51
3	A1	907	A	C2'-C1'	5.42	1.59	1.53
3	A1	1097	C	P-O5'	-5.42	1.54	1.59
3	A1	1382	C	N1-C6	5.42	1.40	1.37
3	A1	1411	C	C5'-C4'	5.42	1.57	1.51
25	BB	951	C	C4-C5	-5.42	1.38	1.43
25	BB	1364	G	N1-C2	5.42	1.42	1.37
25	BB	1652	A	N9-C4	-5.42	1.34	1.37
25	BB	1894	C	N1-C6	5.42	1.40	1.37
25	BB	1903	G	C5-C4	5.42	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2019	A	O3'-P	-5.42	1.54	1.61
25	BB	2110	G	P-O5'	5.42	1.65	1.59
25	BB	2787	C	C2-O2	-5.42	1.19	1.24
3	A1	893	C	O3'-P	-5.42	1.54	1.61
25	BB	721	A	C5-C4	-5.42	1.34	1.38
25	BB	1740	G	C2'-O2'	5.42	1.48	1.41
25	BB	1891	G	C6-O6	5.42	1.29	1.24
25	BB	2693	G	C5-C6	5.42	1.47	1.42
3	A1	763	G	N1-C2	-5.42	1.33	1.37
3	A1	1135	U	N3-C4	-5.42	1.33	1.38
3	A1	1238	A	N9-C8	-5.42	1.33	1.37
24	BA	22	U	C4'-O4'	-5.42	1.38	1.45
24	BA	22	U	C5-C6	5.42	1.39	1.34
25	BB	269	C	C4-C5	-5.42	1.38	1.43
25	BB	325	G	C4'-C3'	5.42	1.59	1.53
25	BB	649	G	C4'-C3'	-5.42	1.47	1.52
25	BB	682	G	O4'-C1'	5.42	1.48	1.41
25	BB	1080	A	N9-C8	-5.42	1.33	1.37
25	BB	1166	G	C2'-C1'	5.42	1.59	1.53
25	BB	1597	A	P-O5'	5.42	1.65	1.59
25	BB	1885	A	C5-C4	-5.42	1.34	1.38
25	BB	1922	G	C6-O6	-5.42	1.19	1.24
25	BB	2032	G	N9-C8	-5.42	1.34	1.37
25	BB	2148	G	P-O5'	-5.42	1.54	1.59
25	BB	2402	U	P-O5'	5.42	1.65	1.59
3	A1	686	U	P-O5'	5.42	1.65	1.59
3	A1	813	U	N1-C6	5.42	1.42	1.38
3	A1	1240	U	N3-C4	-5.42	1.33	1.38
3	A1	1348	U	O4'-C1'	-5.42	1.34	1.41
25	BB	1154	G	N3-C4	5.42	1.39	1.35
25	BB	1519	G	C5-C4	-5.42	1.34	1.38
25	BB	2331	G	P-O5'	-5.42	1.54	1.59
25	BB	2610	C	C2'-C1'	-5.42	1.47	1.53
25	BB	2859	G	C5'-C4'	5.42	1.57	1.51
1	AE	31	A	C5-C4	-5.42	1.34	1.38
3	A1	64	G	O4'-C1'	5.42	1.48	1.41
3	A1	207	C	C4'-O4'	-5.42	1.38	1.45
3	A1	319	G	N9-C4	5.42	1.42	1.38
3	A1	1266	G	C4'-O4'	-5.42	1.38	1.45
3	A1	1375	A	C5'-C4'	5.42	1.57	1.51
24	BA	114	C	C5-C6	5.42	1.38	1.34
25	BB	127	A	N3-C4	-5.42	1.31	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	271	G	P-O5'	-5.42	1.54	1.59
25	BB	337	C	C4-N4	-5.42	1.29	1.33
25	BB	533	G	C5-C4	5.42	1.42	1.38
25	BB	1038	G	C2-N3	-5.42	1.28	1.32
25	BB	1551	A	C5-C4	-5.42	1.34	1.38
25	BB	1594	U	C4'-O4'	-5.42	1.38	1.45
25	BB	1713	A	C5-C6	5.42	1.46	1.41
25	BB	2341	G	N7-C5	5.42	1.42	1.39
3	A1	28	A	N9-C8	-5.42	1.33	1.37
3	A1	184	G	C5-C6	5.42	1.47	1.42
3	A1	1023	U	C4'-O4'	-5.42	1.38	1.45
3	A1	1337	G	C2'-C1'	5.42	1.59	1.53
25	BB	32	C	C4-N4	-5.42	1.29	1.33
25	BB	634	C	C3'-C2'	5.42	1.58	1.52
25	BB	1591	A	C6-N6	-5.42	1.29	1.33
25	BB	1600	C	P-O5'	-5.42	1.54	1.59
30	BG	27	SER	CB-OG	5.42	1.49	1.42
3	A1	30	U	C4-C5	-5.42	1.38	1.43
18	AS	158	LYS	N-CA	5.42	1.57	1.46
25	BB	120	U	C2-O2	-5.42	1.17	1.22
25	BB	366	C	P-O5'	5.42	1.65	1.59
25	BB	1172	C	C4-N4	-5.42	1.29	1.33
25	BB	1967	C	C4'-C3'	5.42	1.59	1.53
1	AE	14	A	N3-C4	5.41	1.38	1.34
3	A1	198	G	C8-N7	-5.41	1.27	1.30
3	A1	672	U	N3-C4	-5.41	1.33	1.38
3	A1	1089	G	C8-N7	5.41	1.34	1.30
3	A1	1345	U	C2-N3	5.41	1.41	1.37
3	A1	1531	A	C8-N7	-5.41	1.27	1.31
25	BB	826	U	C3'-C2'	5.41	1.58	1.52
25	BB	979	A	C6-N1	-5.41	1.31	1.35
25	BB	988	A	N9-C4	-5.41	1.34	1.37
25	BB	1387	A	C6-N6	-5.41	1.29	1.33
25	BB	1492	G	C5-C6	5.41	1.47	1.42
25	BB	1569	A	N3-C4	5.41	1.38	1.34
25	BB	1652	A	N1-C2	-5.41	1.29	1.34
25	BB	2013	A	C2'-C1'	5.41	1.59	1.53
25	BB	2318	G	N7-C5	5.41	1.42	1.39
25	BB	2457	U	C4-O4	-5.41	1.19	1.23
25	BB	2458	G	C2-N2	-5.41	1.29	1.34
25	BB	2589	A	C2'-C1'	5.41	1.59	1.53
25	BB	2719	G	C2-N3	-5.41	1.28	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2841	C	N1-C6	-5.41	1.33	1.37
37	BN	239	PHE	CB-CG	5.41	1.60	1.51
3	A1	947	G	N3-C4	5.41	1.39	1.35
25	BB	1069	A	C3'-O3'	-5.41	1.34	1.42
25	BB	2020	A	C8-N7	-5.41	1.27	1.31
25	BB	2288	A	C6-N6	-5.41	1.29	1.33
3	A1	18	C	C4-C5	-5.41	1.38	1.43
3	A1	22	G	C4'-C3'	5.41	1.59	1.53
3	A1	175	C	C3'-C2'	5.41	1.58	1.52
24	BA	83	G	C5-C6	5.41	1.47	1.42
25	BB	369	U	C5'-C4'	5.41	1.57	1.51
25	BB	1778	U	N1-C6	-5.41	1.33	1.38
25	BB	2433	A	P-O5'	5.41	1.65	1.59
33	BJ	5	ARG	CZ-NH2	-5.41	1.26	1.33
1	AA	1	G	N1-C2	-5.41	1.33	1.37
3	A1	104	G	C8-N7	-5.41	1.27	1.30
3	A1	191	G	C2-N2	-5.41	1.29	1.34
3	A1	252	U	C4'-O4'	-5.41	1.38	1.45
3	A1	808	C	N3-C4	-5.41	1.30	1.33
3	A1	940	C	C4-C5	-5.41	1.38	1.43
3	A1	1079	G	O3'-P	5.41	1.67	1.61
25	BB	44	A	C6-N6	-5.41	1.29	1.33
25	BB	292	U	C3'-C2'	5.41	1.58	1.52
25	BB	307	G	N1-C2	-5.41	1.33	1.37
25	BB	396	G	C5'-C4'	5.41	1.57	1.51
25	BB	520	G	C5'-C4'	5.41	1.57	1.51
25	BB	1201	U	C5-C6	5.41	1.39	1.34
25	BB	2246	G	C2-N2	-5.41	1.29	1.34
25	BB	2587	A	N7-C5	5.41	1.42	1.39
25	BB	2664	G	N1-C2	-5.41	1.33	1.37
3	A1	262	A	N9-C4	5.41	1.41	1.37
3	A1	1383	C	O4'-C1'	5.41	1.48	1.41
25	BB	1350	C	N1-C6	5.41	1.40	1.37
25	BB	1713	A	C6-N6	-5.41	1.29	1.33
25	BB	2624	G	N1-C2	-5.41	1.33	1.37
1	AE	75	C	C3'-O3'	-5.41	1.34	1.42
2	AM	10	U	N1-C2	5.41	1.43	1.38
3	A1	62	U	C3'-O3'	-5.41	1.34	1.42
3	A1	126	G	N7-C5	5.41	1.42	1.39
3	A1	403	C	O4'-C1'	5.41	1.48	1.41
3	A1	892	A	P-O5'	5.41	1.65	1.59
3	A1	1355	G	N9-C8	5.41	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1361	G	C3'-C2'	5.41	1.58	1.52
25	BB	433	C	N1-C6	-5.41	1.33	1.37
25	BB	461	C	C4-N4	-5.41	1.29	1.33
25	BB	481	G	P-O5'	5.41	1.65	1.59
25	BB	1577	C	C5-C6	5.41	1.38	1.34
3	A1	556	C	C4'-C3'	5.40	1.59	1.53
1	AE	22	G	C6-N1	-5.40	1.35	1.39
3	A1	110	C	P-O5'	-5.40	1.54	1.59
3	A1	1090	U	N1-C2	5.40	1.43	1.38
24	BA	2	G	N1-C2	-5.40	1.33	1.37
25	BB	468	G	N7-C5	-5.40	1.36	1.39
25	BB	954	G	C2'-C1'	5.40	1.59	1.53
25	BB	1087	G	C1'-N9	5.40	1.56	1.48
25	BB	1405	U	O5'-C5'	-5.40	1.34	1.42
25	BB	2244	U	C4'-O4'	-5.40	1.38	1.45
25	BB	2793	C	C4'-C3'	-5.40	1.47	1.52
3	A1	139	A	N1-C2	-5.40	1.29	1.34
3	A1	219	U	N1-C2	5.40	1.43	1.38
3	A1	711	G	N7-C5	-5.40	1.36	1.39
3	A1	768	A	N7-C5	5.40	1.42	1.39
25	BB	576	U	N1-C2	5.40	1.43	1.38
25	BB	1922	G	C3'-C2'	5.40	1.58	1.52
25	BB	2406	A	C8-N7	-5.40	1.27	1.31
25	BB	2466	C	C3'-O3'	-5.40	1.34	1.42
25	BB	2474	U	C4'-O4'	-5.40	1.38	1.45
25	BB	2577	A	C2-N3	-5.40	1.28	1.33
25	BB	2586	U	C3'-C2'	5.40	1.58	1.52
25	BB	2883	A	C5-C4	-5.40	1.34	1.38
51	B2	124	ARG	CZ-NH1	-5.40	1.26	1.33
24	BA	81	G	C2'-O2'	-5.40	1.34	1.41
25	BB	35	G	P-O5'	-5.40	1.54	1.59
25	BB	151	C	C5'-C4'	5.40	1.57	1.51
25	BB	1949	G	C2-N3	-5.40	1.28	1.32
25	BB	2413	G	C2-N2	-5.40	1.29	1.34
25	BB	2846	G	N7-C5	5.40	1.42	1.39
1	AP	75	C	N3-C4	-5.40	1.30	1.33
3	A1	512	U	P-O5'	5.40	1.65	1.59
3	A1	577	G	C5'-C4'	5.40	1.57	1.51
3	A1	1076	U	C2-N3	-5.40	1.33	1.37
3	A1	1083	U	C5'-C4'	5.40	1.57	1.51
3	A1	1208	C	C5'-C4'	5.40	1.57	1.51
25	BB	451	U	C4-C5	5.40	1.48	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	500	G	P-O5'	-5.40	1.54	1.59
25	BB	644	A	O3'-P	-5.40	1.54	1.61
25	BB	2520	C	C5'-C4'	5.40	1.57	1.51
25	BB	2654	A	C5-C6	5.40	1.46	1.41
33	BJ	91	ARG	CZ-NH2	-5.40	1.26	1.33
1	AP	25	C	C5'-C4'	5.40	1.57	1.51
1	AE	45	G	N9-C4	5.40	1.42	1.38
3	A1	580	C	N1-C6	5.40	1.40	1.37
3	A1	785	G	C4'-C3'	5.40	1.59	1.53
3	A1	1114	C	C4-N4	-5.40	1.29	1.33
25	BB	535	G	N1-C2	-5.40	1.33	1.37
25	BB	637	A	C3'-O3'	-5.40	1.34	1.42
25	BB	1268	A	N7-C5	5.40	1.42	1.39
25	BB	1546	G	C2-N3	-5.40	1.28	1.32
25	BB	2149	U	C2-N3	-5.40	1.33	1.37
25	BB	2276	G	C4'-C3'	5.40	1.59	1.53
25	BB	2776	A	N7-C5	5.40	1.42	1.39
25	BB	2868	A	N3-C4	-5.40	1.31	1.34
1	AP	27	C	C5-C6	5.39	1.38	1.34
3	A1	89	U	C3'-C2'	5.39	1.58	1.52
3	A1	165	G	P-O5'	-5.39	1.54	1.59
3	A1	674	G	C2-N3	5.39	1.37	1.32
3	A1	1172	C	C5-C6	5.39	1.38	1.34
3	A1	1226	C	O3'-P	-5.39	1.54	1.61
25	BB	626	A	N7-C5	5.39	1.42	1.39
25	BB	812	C	N1-C6	5.39	1.40	1.37
25	BB	881	G	C2-N2	-5.39	1.29	1.34
25	BB	1028	A	N7-C5	5.39	1.42	1.39
25	BB	1067	A	O3'-P	-5.39	1.54	1.61
25	BB	1473	G	C5-C6	5.39	1.47	1.42
25	BB	2061	G	C4'-O4'	5.39	1.52	1.45
3	A1	608	A	N7-C5	5.39	1.42	1.39
3	A1	726	C	C2'-C1'	5.39	1.59	1.53
15	AO	170	GLY	CA-C	5.39	1.60	1.51
24	BA	113	C	C2-N3	-5.39	1.31	1.35
25	BB	74	A	C6-N6	-5.39	1.29	1.33
25	BB	789	A	C5-C4	-5.39	1.34	1.38
25	BB	906	U	N1-C2	5.39	1.43	1.38
25	BB	1269	A	N9-C4	-5.39	1.34	1.37
25	BB	1572	A	N9-C8	5.39	1.42	1.37
25	BB	1734	G	C5'-C4'	5.39	1.57	1.51
25	BB	2597	G	C5'-C4'	5.39	1.57	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2664	G	C5-C4	5.39	1.42	1.38
25	BB	2885	G	C2-N3	5.39	1.37	1.32
50	B1	25	GLU	CG-CD	5.39	1.60	1.51
25	BB	1921	G	C2-N2	-5.39	1.29	1.34
25	BB	2203	U	C5-C6	5.39	1.39	1.34
25	BB	2246	G	C6-N1	-5.39	1.35	1.39
25	BB	2623	G	C8-N7	5.39	1.34	1.30
25	BB	2899	A	O3'-P	-5.39	1.54	1.61
3	A1	51	A	C4'-O4'	-5.39	1.38	1.45
3	A1	391	G	N3-C4	5.39	1.39	1.35
3	A1	1449	C	C5'-C4'	5.39	1.57	1.51
25	BB	106	C	C4-C5	-5.39	1.38	1.43
25	BB	247	G	N1-C2	-5.39	1.33	1.37
25	BB	1521	G	C5-C4	-5.39	1.34	1.38
25	BB	1815	A	C5'-C4'	5.39	1.57	1.51
25	BB	1849	G	C6-O6	-5.39	1.19	1.24
25	BB	2638	G	C5'-C4'	5.39	1.57	1.51
48	BY	77	ARG	CZ-NH1	-5.39	1.26	1.33
3	A1	1340	A	N9-C4	-5.39	1.34	1.37
25	BB	598	U	C5'-C4'	5.39	1.57	1.51
25	BB	828	U	C4'-O4'	-5.39	1.38	1.45
25	BB	988	A	N3-C4	5.39	1.38	1.34
25	BB	1627	G	O3'-P	-5.39	1.54	1.61
25	BB	1753	G	C2-N2	-5.39	1.29	1.34
1	AP	65	G	O3'-P	-5.39	1.54	1.61
3	A1	280	C	C2'-C1'	5.39	1.59	1.53
3	A1	356	A	N7-C5	5.39	1.42	1.39
3	A1	427	U	C2-N3	5.39	1.41	1.37
3	A1	1067	A	C6-N1	-5.39	1.31	1.35
4	AB	207	ARG	CZ-NH1	-5.39	1.26	1.33
15	AO	126	ARG	CZ-NH1	-5.39	1.26	1.33
25	BB	616	A	C5'-C4'	5.39	1.57	1.51
25	BB	1000	A	C5-C4	-5.39	1.34	1.38
25	BB	1298	C	C5-C6	5.39	1.38	1.34
25	BB	1513	U	C5-C6	5.39	1.39	1.34
25	BB	1831	G	C2-N2	-5.39	1.29	1.34
25	BB	2445	G	C2-N2	-5.39	1.29	1.34
25	BB	2654	A	C4'-O4'	-5.39	1.38	1.45
1	AP	73	A	C4'-C3'	-5.38	1.47	1.52
3	A1	259	G	N1-C2	-5.38	1.33	1.37
3	A1	584	G	N9-C4	5.38	1.42	1.38
3	A1	842	U	C4'-C3'	-5.38	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1498	U	C4-O4	-5.38	1.19	1.23
24	BA	52	A	P-O5'	5.38	1.65	1.59
25	BB	260	G	C5'-C4'	5.38	1.57	1.51
25	BB	404	A	C4'-C3'	5.38	1.59	1.53
25	BB	1011	G	O3'-P	-5.38	1.54	1.61
25	BB	2573	C	N1-C6	-5.38	1.33	1.37
3	A1	15	G	N7-C5	5.38	1.42	1.39
3	A1	331	G	C2-N2	-5.38	1.29	1.34
3	A1	348	G	C2-N3	-5.38	1.28	1.32
3	A1	866	C	C2'-O2'	5.38	1.48	1.41
8	AG	89	ARG	CZ-NH1	-5.38	1.26	1.33
25	BB	875	G	N3-C4	5.38	1.39	1.35
25	BB	1347	A	C8-N7	-5.38	1.27	1.31
25	BB	2107	G	O3'-P	-5.38	1.54	1.61
3	A1	696	A	N7-C5	-5.38	1.36	1.39
3	A1	934	C	N1-C6	5.38	1.40	1.37
3	A1	1225	A	N7-C5	5.38	1.42	1.39
25	BB	23	G	N3-C4	5.38	1.39	1.35
25	BB	75	G	C3'-C2'	5.38	1.58	1.52
25	BB	803	U	C1'-N1	5.38	1.56	1.48
25	BB	851	C	O3'-P	-5.38	1.54	1.61
25	BB	1202	G	C2-N3	-5.38	1.28	1.32
25	BB	1286	A	C5-C6	5.38	1.45	1.41
25	BB	1370	C	C3'-O3'	5.38	1.49	1.42
25	BB	1580	A	C2-N3	-5.38	1.28	1.33
25	BB	2731	G	C2-N3	5.38	1.37	1.32
25	BB	2895	G	N9-C4	-5.38	1.33	1.38
3	A1	771	G	C5'-C4'	5.38	1.57	1.51
3	A1	1406	U	C4-O4	-5.38	1.19	1.23
3	A1	1534	A	C5-C6	5.38	1.45	1.41
25	BB	1352	U	C5-C6	5.38	1.39	1.34
25	BB	1787	A	N3-C4	5.38	1.38	1.34
25	BB	2001	C	C5'-C4'	5.38	1.57	1.51
25	BB	2197	U	O4'-C1'	5.38	1.48	1.41
1	AA	42	G	N3-C4	5.38	1.39	1.35
3	A1	57	G	N3-C4	5.38	1.39	1.35
3	A1	336	A	N7-C5	5.38	1.42	1.39
3	A1	1145	A	C8-N7	-5.38	1.27	1.31
3	A1	1171	A	C3'-C2'	5.38	1.58	1.52
3	A1	1218	C	C4-N4	-5.38	1.29	1.33
3	A1	1282	C	N3-C4	-5.38	1.30	1.33
3	A1	1398	A	N9-C8	5.38	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1413	A	C6-N1	-5.38	1.31	1.35
24	BA	74	U	C4-C5	-5.38	1.38	1.43
25	BB	823	C	C4-N4	-5.38	1.29	1.33
25	BB	1099	G	C6-N1	-5.38	1.35	1.39
25	BB	1225	G	C8-N7	5.38	1.34	1.30
25	BB	1391	U	C3'-C2'	5.38	1.58	1.52
25	BB	1626	A	C3'-C2'	5.38	1.58	1.52
25	BB	1807	G	C6-N1	5.38	1.43	1.39
25	BB	1915	U	C5'-C4'	5.38	1.57	1.51
25	BB	2003	A	O3'-P	-5.38	1.54	1.61
25	BB	2582	G	O3'-P	5.38	1.67	1.61
1	AA	28	C	N1-C6	-5.38	1.33	1.37
1	AA	65	G	C2'-C1'	5.38	1.59	1.53
3	A1	86	G	C2-N2	-5.38	1.29	1.34
3	A1	575	G	N7-C5	5.38	1.42	1.39
3	A1	622	A	C4'-O4'	-5.38	1.38	1.45
3	A1	687	A	N7-C5	5.38	1.42	1.39
3	A1	730	G	C4'-C3'	5.38	1.59	1.53
3	A1	1028	C	C5-C6	5.38	1.38	1.34
3	A1	1110	A	C5'-C4'	5.38	1.57	1.51
3	A1	1129	C	C2'-O2'	-5.38	1.34	1.41
3	A1	1496	C	C4'-O4'	-5.38	1.38	1.45
25	BB	495	G	P-O5'	-5.38	1.54	1.59
25	BB	648	G	C5-C6	5.38	1.47	1.42
25	BB	696	G	C6-N1	-5.38	1.35	1.39
25	BB	784	G	C2-N2	-5.38	1.29	1.34
25	BB	1043	C	C4-N4	-5.38	1.29	1.33
25	BB	1647	U	O3'-P	-5.38	1.54	1.61
25	BB	1918	A	C2'-C1'	5.38	1.59	1.53
25	BB	2210	U	C2-N3	-5.38	1.33	1.37
3	A1	1151	A	N9-C4	5.38	1.41	1.37
24	BA	55	U	C4'-O4'	-5.38	1.38	1.45
24	BA	65	U	N1-C2	5.38	1.43	1.38
25	BB	320	A	C6-N1	-5.38	1.31	1.35
25	BB	543	G	C2-N2	-5.38	1.29	1.34
25	BB	2030	A	C6-N1	-5.38	1.31	1.35
25	BB	2656	U	P-O5'	-5.38	1.54	1.59
3	A1	98	A	O4'-C1'	5.37	1.48	1.41
3	A1	527	G	C3'-C2'	5.37	1.58	1.52
3	A1	602	A	O4'-C1'	5.37	1.48	1.41
3	A1	1016	A	C4'-C3'	-5.37	1.47	1.52
3	A1	1167	A	C6-N6	-5.37	1.29	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1197	A	C2-N3	5.37	1.38	1.33
3	A1	1286	U	P-O5'	5.37	1.65	1.59
3	A1	1473	G	C6-N1	-5.37	1.35	1.39
25	BB	367	G	N7-C5	-5.37	1.36	1.39
25	BB	391	A	C5-C6	5.37	1.45	1.41
25	BB	634	C	O4'-C1'	-5.37	1.34	1.41
25	BB	876	C	C2-O2	-5.37	1.19	1.24
25	BB	1820	U	C4'-C3'	-5.37	1.47	1.52
25	BB	2392	A	C4'-C3'	5.37	1.59	1.53
3	A1	452	A	O3'-P	-5.37	1.54	1.61
3	A1	972	C	C5'-C4'	5.37	1.57	1.51
3	A1	1020	G	C3'-C2'	5.37	1.58	1.52
3	A1	1238	A	N7-C5	-5.37	1.36	1.39
3	A1	1416	G	C2-N3	5.37	1.37	1.32
15	AO	125	ARG	CZ-NH1	-5.37	1.26	1.33
24	BA	114	C	C2'-C1'	5.37	1.59	1.53
25	BB	499	U	C4'-O4'	-5.37	1.38	1.45
25	BB	698	C	C2-N3	5.37	1.40	1.35
25	BB	861	A	C2'-C1'	5.37	1.59	1.53
25	BB	890	C	C4'-O4'	-5.37	1.38	1.45
25	BB	1406	U	C4'-C3'	5.37	1.59	1.53
25	BB	1454	C	C4-N4	-5.37	1.29	1.33
25	BB	1516	G	N9-C8	-5.37	1.34	1.37
25	BB	1563	U	C5-C6	5.37	1.39	1.34
25	BB	1805	A	C2'-O2'	5.37	1.48	1.41
26	BC	19	ARG	CZ-NH2	-5.37	1.26	1.33
52	B3	166	GLU	CB-CG	5.37	1.62	1.52
3	A1	278	G	N9-C4	5.37	1.42	1.38
3	A1	428	G	C4'-O4'	-5.37	1.38	1.45
3	A1	936	C	C2'-C1'	5.37	1.59	1.53
3	A1	1397	C	C4-N4	-5.37	1.29	1.33
25	BB	891	G	C3'-O3'	5.37	1.49	1.42
25	BB	1319	C	P-O5'	5.37	1.65	1.59
25	BB	1815	A	C5-C6	-5.37	1.36	1.41
25	BB	2170	A	C2'-C1'	-5.37	1.47	1.53
25	BB	2194	U	C2'-O2'	5.37	1.48	1.41
25	BB	2688	G	O4'-C1'	5.37	1.48	1.41
3	A1	112	G	C8-N7	-5.37	1.27	1.30
3	A1	193	C	C4'-O4'	-5.37	1.38	1.45
3	A1	933	G	O3'-P	-5.37	1.54	1.61
3	A1	958	A	C3'-C2'	5.37	1.58	1.52
25	BB	1036	G	C8-N7	-5.37	1.27	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1077	A	C2'-C1'	5.37	1.59	1.53
25	BB	1568	G	N1-C2	-5.37	1.33	1.37
25	BB	1743	G	C2-N3	5.37	1.37	1.32
25	BB	2495	G	N9-C8	5.37	1.41	1.37
25	BB	2723	C	N3-C4	-5.37	1.30	1.33
26	BC	57	TYR	CG-CD1	5.37	1.46	1.39
3	A1	71	A	O5'-C5'	-5.37	1.34	1.42
3	A1	249	U	N3-C4	-5.37	1.33	1.38
3	A1	420	U	C4-O4	-5.37	1.19	1.23
3	A1	474	G	C3'-O3'	5.37	1.49	1.42
3	A1	668	G	C4'-O4'	-5.37	1.38	1.45
3	A1	1000	A	P-O5'	-5.37	1.54	1.59
25	BB	70	G	C5-C4	5.37	1.42	1.38
25	BB	108	G	C5-C4	-5.37	1.34	1.38
25	BB	340	A	C4'-C3'	5.37	1.59	1.53
25	BB	684	G	P-O5'	-5.37	1.54	1.59
25	BB	742	A	C2'-C1'	5.37	1.59	1.53
25	BB	1008	A	C6-N1	-5.37	1.31	1.35
25	BB	1475	G	C5-C4	-5.37	1.34	1.38
25	BB	2096	C	N3-C4	-5.37	1.30	1.33
3	A1	531	U	N1-C2	5.37	1.43	1.38
3	A1	764	C	C4'-C3'	5.37	1.59	1.53
3	A1	985	C	C2-O2	-5.37	1.19	1.24
3	A1	1255	G	N3-C4	-5.37	1.31	1.35
3	A1	1511	G	C2-N2	-5.37	1.29	1.34
25	BB	434	U	P-O5'	5.37	1.65	1.59
25	BB	1243	C	C2-O2	-5.37	1.19	1.24
25	BB	1275	A	C6-N1	5.37	1.39	1.35
25	BB	1634	A	C4'-O4'	-5.37	1.38	1.45
25	BB	1677	A	C6-N6	-5.37	1.29	1.33
1	AE	10	G	C5-C6	5.36	1.47	1.42
3	A1	605	U	C2'-C1'	5.36	1.59	1.53
3	A1	701	U	C2-N3	5.36	1.41	1.37
3	A1	710	G	C6-O6	5.36	1.28	1.24
25	BB	826	U	C1'-N1	5.36	1.56	1.48
25	BB	964	C	C2-O2	-5.36	1.19	1.24
25	BB	1491	G	C2-N2	-5.36	1.29	1.34
25	BB	2064	C	C4-N4	-5.36	1.29	1.33
25	BB	2090	A	C2-N3	-5.36	1.28	1.33
25	BB	2610	C	C2-N3	-5.36	1.31	1.35
3	A1	291	U	N1-C6	5.36	1.42	1.38
3	A1	492	C	C4-N4	-5.36	1.29	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1045	C	C2-O2	-5.36	1.19	1.24
25	BB	1880	U	N1-C2	5.36	1.43	1.38
25	BB	2567	G	C2'-C1'	-5.36	1.47	1.53
3	A1	177	G	C5-C6	5.36	1.47	1.42
3	A1	588	G	N1-C2	-5.36	1.33	1.37
3	A1	701	U	O4'-C1'	-5.36	1.34	1.41
3	A1	730	G	C5-C6	5.36	1.47	1.42
3	A1	789	U	C5'-C4'	5.36	1.57	1.51
3	A1	1222	G	N9-C8	-5.36	1.34	1.37
18	AS	132	PRO	N-CD	-5.36	1.40	1.47
25	BB	53	A	N9-C8	5.36	1.42	1.37
25	BB	911	A	C5-C4	-5.36	1.34	1.38
25	BB	1046	A	C8-N7	-5.36	1.27	1.31
25	BB	1329	U	C4-C5	-5.36	1.38	1.43
25	BB	1634	A	C6-N1	-5.36	1.31	1.35
25	BB	1875	G	C2-N3	-5.36	1.28	1.32
25	BB	2470	G	C5-C6	5.36	1.47	1.42
25	BB	2832	U	N1-C2	5.36	1.43	1.38
3	A1	33	A	N9-C8	-5.36	1.33	1.37
3	A1	943	U	N3-C4	-5.36	1.33	1.38
3	A1	1044	A	P-O5'	5.36	1.65	1.59
25	BB	112	U	O3'-P	5.36	1.67	1.61
25	BB	776	G	C3'-C2'	5.36	1.58	1.52
25	BB	1079	C	C4-C5	-5.36	1.38	1.43
25	BB	1390	U	N3-C4	-5.36	1.33	1.38
25	BB	2289	G	C4'-C3'	-5.36	1.47	1.52
25	BB	2473	U	C2-O2	5.36	1.27	1.22
41	BR	45	GLY	CA-C	5.36	1.60	1.51
3	A1	127	G	C8-N7	5.36	1.34	1.30
3	A1	495	A	O3'-P	-5.36	1.54	1.61
3	A1	675	A	C5-C6	5.36	1.45	1.41
24	BA	69	G	C3'-O3'	5.36	1.49	1.42
24	BA	73	A	C4'-C3'	-5.36	1.47	1.52
25	BB	105	C	C4-N4	-5.36	1.29	1.33
25	BB	864	G	C5-C4	5.36	1.42	1.38
25	BB	977	G	C2'-O2'	-5.36	1.34	1.41
25	BB	1064	C	P-O5'	5.36	1.65	1.59
25	BB	1925	C	C2-O2	-5.36	1.19	1.24
25	BB	2203	U	C2-N3	5.36	1.41	1.37
25	BB	2705	A	C5-C6	5.36	1.45	1.41
25	BB	2839	G	C5-C4	-5.36	1.34	1.38
26	BC	19	ARG	CZ-NH1	-5.36	1.26	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
42	BS	63	ARG	CZ-NH1	-5.36	1.26	1.33
55	B6	69	ARG	CZ-NH2	-5.36	1.26	1.33
1	AP	15	G	N7-C5	-5.36	1.36	1.39
3	A1	11	G	C4'-O4'	-5.36	1.38	1.45
3	A1	15	G	C2-N3	-5.36	1.28	1.32
25	BB	334	C	C3'-C2'	5.36	1.58	1.52
25	BB	478	A	O3'-P	-5.36	1.54	1.61
25	BB	668	A	O3'-P	-5.36	1.54	1.61
25	BB	1067	A	P-O5'	5.36	1.65	1.59
25	BB	1501	G	C6-O6	-5.36	1.19	1.24
25	BB	1722	A	O4'-C1'	5.36	1.48	1.41
25	BB	2054	A	C5-C6	5.36	1.45	1.41
25	BB	2790	U	C4'-C3'	-5.36	1.47	1.52
1	AE	15	G	C5-C4	-5.35	1.34	1.38
3	A1	1364	U	C5-C6	5.35	1.39	1.34
3	A1	1466	C	N3-C4	-5.35	1.30	1.33
25	BB	71	A	C4'-C3'	5.35	1.59	1.53
25	BB	445	C	O3'-P	-5.35	1.54	1.61
25	BB	2224	G	C5-C6	5.35	1.47	1.42
25	BB	2240	U	N3-C4	-5.35	1.33	1.38
25	BB	2686	G	N9-C4	5.35	1.42	1.38
1	AP	31	A	O3'-P	5.35	1.67	1.61
3	A1	500	G	P-O5'	5.35	1.65	1.59
3	A1	1024	G	C6-O6	-5.35	1.19	1.24
3	A1	1463	U	C5-C6	5.35	1.39	1.34
25	BB	116	C	O3'-P	-5.35	1.54	1.61
25	BB	117	G	C2-N3	-5.35	1.28	1.32
25	BB	247	G	N9-C4	-5.35	1.33	1.38
25	BB	481	G	C2-N2	-5.35	1.29	1.34
25	BB	1158	C	C4-N4	-5.35	1.29	1.33
25	BB	2071	A	C5-C4	-5.35	1.35	1.38
25	BB	2112	G	P-O5'	-5.35	1.54	1.59
25	BB	2680	U	N3-C4	-5.35	1.33	1.38
25	BB	2693	G	N9-C8	5.35	1.41	1.37
3	A1	1081	A	N3-C4	5.35	1.38	1.34
3	A1	1493	A	N9-C4	5.35	1.41	1.37
25	BB	242	G	C8-N7	5.35	1.34	1.30
25	BB	2882	A	O4'-C1'	5.35	1.48	1.41
1	AA	38	A	C3'-C2'	5.35	1.58	1.52
1	AP	31	A	N9-C4	5.35	1.41	1.37
3	A1	102	G	N1-C2	-5.35	1.33	1.37
3	A1	414	A	N1-C2	-5.35	1.29	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	806	C	C3'-C2'	5.35	1.58	1.52
25	BB	2115	G	C6-O6	-5.35	1.19	1.24
25	BB	2264	C	C4-N4	-5.35	1.29	1.33
25	BB	2451	A	N3-C4	5.35	1.38	1.34
25	BB	2647	U	N1-C2	5.35	1.43	1.38
25	BB	2671	G	P-O5'	-5.35	1.54	1.59
3	A1	59	A	N1-C2	-5.35	1.29	1.34
3	A1	866	C	C4-N4	-5.35	1.29	1.33
3	A1	1293	C	N3-C4	-5.35	1.30	1.33
25	BB	254	G	C6-O6	-5.35	1.19	1.24
25	BB	580	U	C5'-C4'	5.35	1.57	1.51
25	BB	650	C	C5-C6	5.35	1.38	1.34
25	BB	782	A	N9-C4	5.35	1.41	1.37
25	BB	851	C	C4-N4	-5.35	1.29	1.33
25	BB	974	G	N3-C4	5.35	1.39	1.35
25	BB	1730	C	N1-C6	5.35	1.40	1.37
25	BB	1897	G	O4'-C1'	5.35	1.48	1.41
25	BB	2029	G	C4'-C3'	5.35	1.59	1.53
25	BB	2195	U	C5-C6	5.35	1.39	1.34
25	BB	2452	C	C2'-C1'	-5.35	1.47	1.53
25	BB	2504	U	P-O5'	-5.35	1.54	1.59
25	BB	4	U	P-O5'	5.35	1.65	1.59
25	BB	541	A	O3'-P	-5.35	1.54	1.61
25	BB	1566	A	C5-C4	-5.35	1.35	1.38
25	BB	1675	C	C2-N3	5.35	1.40	1.35
25	BB	2533	U	C2'-O2'	-5.35	1.34	1.41
25	BB	2552	U	N1-C6	-5.35	1.33	1.38
3	A1	108	G	C6-N1	-5.34	1.35	1.39
3	A1	200	G	C3'-C2'	5.34	1.58	1.52
3	A1	274	A	C5-C6	5.34	1.45	1.41
3	A1	414	A	C5-C4	-5.34	1.35	1.38
3	A1	909	A	C6-N6	-5.34	1.29	1.33
3	A1	933	G	N7-C5	5.34	1.42	1.39
25	BB	241	A	N7-C5	5.34	1.42	1.39
25	BB	359	G	C4'-O4'	-5.34	1.38	1.45
25	BB	498	G	C2'-O2'	5.34	1.48	1.41
25	BB	572	A	C5-C4	-5.34	1.35	1.38
25	BB	1095	A	O3'-P	-5.34	1.54	1.61
25	BB	1248	G	N1-C2	-5.34	1.33	1.37
25	BB	1368	G	C3'-C2'	5.34	1.58	1.52
25	BB	1398	C	C4'-O4'	-5.34	1.38	1.45
25	BB	1889	A	C4'-C3'	-5.34	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2386	A	O3'-P	-5.34	1.54	1.61
25	BB	2561	U	O4'-C1'	5.34	1.48	1.41
1	AA	53	G	C5'-C4'	5.34	1.57	1.51
25	BB	679	C	N1-C6	-5.34	1.33	1.37
25	BB	1303	G	N7-C5	5.34	1.42	1.39
25	BB	2732	G	N9-C4	5.34	1.42	1.38
1	AP	12	U	C4'-O4'	-5.34	1.38	1.45
3	A1	586	C	C2'-O2'	5.34	1.48	1.41
3	A1	1104	G	N9-C4	-5.34	1.33	1.38
3	A1	1175	G	C5-C4	5.34	1.42	1.38
3	A1	1466	C	C4-N4	-5.34	1.29	1.33
4	AB	21	TYR	CE2-CZ	5.34	1.45	1.38
24	BA	79	G	N3-C4	5.34	1.39	1.35
25	BB	181	A	N7-C5	5.34	1.42	1.39
25	BB	308	G	C2-N2	-5.34	1.29	1.34
25	BB	1548	A	C3'-C2'	-5.34	1.46	1.52
3	A1	423	G	O4'-C1'	5.34	1.48	1.41
3	A1	457	G	N9-C8	-5.34	1.34	1.37
3	A1	676	A	N9-C8	5.34	1.42	1.37
3	A1	1433	A	C2'-C1'	-5.34	1.47	1.53
9	AH	54	GLY	CA-C	5.34	1.60	1.51
21	AV	57	GLU	CG-CD	5.34	1.59	1.51
25	BB	56	A	C2-N3	5.34	1.38	1.33
25	BB	1185	G	C3'-C2'	5.34	1.58	1.52
25	BB	1573	G	C6-N1	5.34	1.43	1.39
25	BB	2487	G	C2-N2	-5.34	1.29	1.34
1	AA	22	G	C2'-C1'	-5.34	1.47	1.53
1	AA	24	G	C2-N2	-5.34	1.29	1.34
3	A1	628	G	N9-C4	-5.34	1.33	1.38
3	A1	927	G	C5-C4	-5.34	1.34	1.38
3	A1	1507	A	C6-N1	-5.34	1.31	1.35
25	BB	537	G	C4'-C3'	5.34	1.59	1.53
25	BB	632	A	N7-C5	5.34	1.42	1.39
25	BB	805	G	N1-C2	-5.34	1.33	1.37
1	AA	6	U	N3-C4	-5.34	1.33	1.38
3	A1	903	G	C5'-C4'	5.34	1.57	1.51
3	A1	1145	A	N7-C5	5.34	1.42	1.39
25	BB	47	C	P-O5'	5.34	1.65	1.59
25	BB	152	A	C8-N7	-5.34	1.27	1.31
25	BB	468	G	C2-N2	-5.34	1.29	1.34
25	BB	745	G	N1-C2	-5.34	1.33	1.37
25	BB	1030	C	C2-O2	-5.34	1.19	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1147	A	C5-C4	5.34	1.42	1.38
25	BB	2225	A	N9-C4	-5.34	1.34	1.37
25	BB	2396	G	C5-C4	5.34	1.42	1.38
25	BB	2675	A	C3'-C2'	5.34	1.58	1.52
3	A1	601	G	N1-C2	-5.33	1.33	1.37
3	A1	881	G	C5-C6	5.33	1.47	1.42
25	BB	748	G	C2-N2	-5.33	1.29	1.34
25	BB	860	U	C3'-C2'	-5.33	1.46	1.52
25	BB	2033	A	C3'-C2'	5.33	1.58	1.52
25	BB	2130	U	C2'-O2'	5.33	1.48	1.41
25	BB	2131	U	C4'-O4'	-5.33	1.38	1.45
25	BB	2503	A	C2-N3	-5.33	1.28	1.33
1	AA	9	A	C4'-O4'	-5.33	1.38	1.45
1	AE	3	G	N7-C5	5.33	1.42	1.39
3	A1	479	U	N1-C2	5.33	1.43	1.38
3	A1	887	G	N9-C8	-5.33	1.34	1.37
3	A1	1053	G	O3'-P	-5.33	1.54	1.61
3	A1	1102	A	N9-C8	5.33	1.42	1.37
3	A1	1324	A	C6-N1	-5.33	1.31	1.35
9	AH	23	SER	CA-CB	5.33	1.60	1.52
10	AI	5	ARG	NE-CZ	-5.33	1.26	1.33
25	BB	17	G	P-O5'	-5.33	1.54	1.59
25	BB	170	U	C5-C6	5.33	1.39	1.34
25	BB	221	A	N9-C8	5.33	1.42	1.37
25	BB	615	U	C5-C6	5.33	1.39	1.34
25	BB	753	A	P-O5'	-5.33	1.54	1.59
25	BB	789	A	N1-C2	-5.33	1.29	1.34
25	BB	1205	A	N9-C4	5.33	1.41	1.37
25	BB	2439	A	N7-C5	5.33	1.42	1.39
3	A1	134	G	C6-N1	5.33	1.43	1.39
3	A1	231	U	N1-C6	5.33	1.42	1.38
3	A1	915	A	C6-N1	-5.33	1.31	1.35
3	A1	969	A	C3'-C2'	5.33	1.58	1.52
3	A1	1458	G	C8-N7	-5.33	1.27	1.30
6	AD	53	ARG	NE-CZ	-5.33	1.26	1.33
25	BB	27	G	P-O5'	-5.33	1.54	1.59
25	BB	395	U	P-O5'	-5.33	1.54	1.59
25	BB	397	U	C5'-C4'	5.33	1.57	1.51
25	BB	562	U	O4'-C1'	5.33	1.48	1.41
25	BB	580	U	C4'-O4'	-5.33	1.38	1.45
25	BB	977	G	C5-C6	5.33	1.47	1.42
25	BB	1008	A	N9-C4	-5.33	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1227	G	C5'-C4'	5.33	1.57	1.51
25	BB	1456	G	N3-C4	5.33	1.39	1.35
25	BB	2250	G	C5-C6	5.33	1.47	1.42
25	BB	2871	U	O3'-P	-5.33	1.54	1.61
1	AP	16	U	C4'-O4'	-5.33	1.38	1.45
25	BB	157	C	C2-N3	5.33	1.40	1.35
25	BB	317	G	C6-N1	-5.33	1.35	1.39
25	BB	952	G	N3-C4	5.33	1.39	1.35
25	BB	983	A	C5'-C4'	5.33	1.57	1.51
25	BB	1580	A	N9-C4	-5.33	1.34	1.37
25	BB	1971	U	C2'-O2'	5.33	1.48	1.41
25	BB	2398	U	N3-C4	-5.33	1.33	1.38
25	BB	2541	A	C4'-O4'	-5.33	1.38	1.45
38	BO	81	ARG	CZ-NH2	-5.33	1.26	1.33
3	A1	166	U	C2'-O2'	5.33	1.48	1.41
3	A1	690	G	N7-C5	5.33	1.42	1.39
24	BA	101	A	C8-N7	5.33	1.35	1.31
25	BB	581	C	C5-C6	5.33	1.38	1.34
25	BB	599	A	C4'-O4'	-5.33	1.38	1.45
25	BB	1788	C	C2'-C1'	5.33	1.59	1.53
25	BB	2712	C	C5'-C4'	5.33	1.57	1.51
53	B4	91	PHE	CG-CD2	5.33	1.46	1.38
3	A1	281	G	C6-N1	-5.33	1.35	1.39
25	BB	662	G	C4'-C3'	5.33	1.59	1.53
25	BB	2495	G	C4'-O4'	-5.33	1.38	1.45
1	AP	7	U	C4'-C3'	5.33	1.59	1.53
1	AE	76	A	C5-C4	-5.33	1.35	1.38
3	A1	490	C	C4'-O4'	-5.33	1.38	1.45
3	A1	1321	U	C3'-C2'	5.33	1.58	1.52
25	BB	853	C	N3-C4	-5.33	1.30	1.33
25	BB	1049	C	C5-C6	5.33	1.38	1.34
25	BB	1091	G	N9-C4	5.33	1.42	1.38
25	BB	1952	A	C6-N1	5.33	1.39	1.35
25	BB	2015	A	N9-C4	-5.33	1.34	1.37
3	A1	85	U	C3'-C2'	5.32	1.58	1.52
3	A1	454	G	N1-C2	-5.32	1.33	1.37
3	A1	758	C	O5'-C5'	-5.32	1.34	1.42
24	BA	12	C	C5'-C4'	5.32	1.57	1.51
25	BB	344	A	N9-C8	5.32	1.42	1.37
25	BB	1108	U	P-O5'	-5.32	1.54	1.59
25	BB	1191	G	C2-N2	-5.32	1.29	1.34
25	BB	1752	C	N1-C6	5.32	1.40	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2630	G	N9-C8	-5.32	1.34	1.37
3	A1	339	C	C2'-O2'	-5.32	1.34	1.41
3	A1	1194	U	C4'-C3'	-5.32	1.47	1.52
25	BB	660	C	C3'-O3'	-5.32	1.34	1.42
25	BB	771	G	C5-C6	5.32	1.47	1.42
25	BB	1330	C	C4'-O4'	-5.32	1.38	1.45
25	BB	2033	A	C4'-O4'	-5.32	1.38	1.45
25	BB	2593	U	C3'-C2'	5.32	1.58	1.52
52	B3	152	ARG	CZ-NH1	-5.32	1.26	1.33
3	A1	29	U	C2-N3	5.32	1.41	1.37
3	A1	291	U	O4'-C1'	5.32	1.48	1.41
3	A1	641	U	C2'-C1'	5.32	1.59	1.53
3	A1	974	A	O4'-C1'	5.32	1.48	1.41
3	A1	1326	U	C2-N3	-5.32	1.34	1.37
25	BB	17	G	O3'-P	-5.32	1.54	1.61
25	BB	159	G	C5-C4	5.32	1.42	1.38
25	BB	478	A	C4'-C3'	5.32	1.59	1.53
25	BB	546	U	N1-C2	5.32	1.43	1.38
25	BB	1115	G	N7-C5	5.32	1.42	1.39
25	BB	1149	G	C6-N1	-5.32	1.35	1.39
25	BB	1319	C	O3'-P	-5.32	1.54	1.61
25	BB	1428	C	C5-C6	5.32	1.38	1.34
25	BB	1751	U	N3-C4	-5.32	1.33	1.38
25	BB	1977	A	N7-C5	5.32	1.42	1.39
25	BB	2067	G	N7-C5	5.32	1.42	1.39
25	BB	2822	G	C2-N2	-5.32	1.29	1.34
25	BB	2822	G	N1-C2	-5.32	1.33	1.37
3	A1	133	U	C5'-C4'	5.32	1.57	1.51
3	A1	157	U	C2-O2	5.32	1.27	1.22
25	BB	98	G	C4'-O4'	-5.32	1.38	1.45
25	BB	386	G	N3-C4	5.32	1.39	1.35
25	BB	1906	G	C4'-C3'	5.32	1.59	1.53
25	BB	2003	A	N9-C4	-5.32	1.34	1.37
1	AE	52	U	N3-C4	-5.32	1.33	1.38
3	A1	273	U	P-O5'	-5.32	1.54	1.59
3	A1	532	A	N3-C4	-5.32	1.31	1.34
3	A1	668	G	C6-O6	-5.32	1.19	1.24
3	A1	1020	G	P-O5'	5.32	1.65	1.59
3	A1	1033	G	P-O5'	-5.32	1.54	1.59
24	BA	34	A	C2'-O2'	5.32	1.48	1.41
24	BA	88	C	C4-N4	-5.32	1.29	1.33
25	BB	60	G	C6-N1	-5.32	1.35	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	465	G	C2'-C1'	-5.32	1.47	1.53
25	BB	741	U	C2-N3	-5.32	1.34	1.37
25	BB	1537	G	N1-C2	-5.32	1.33	1.37
25	BB	1732	C	P-O5'	5.32	1.65	1.59
25	BB	2683	C	C2'-O2'	5.32	1.48	1.41
3	A1	177	G	O4'-C1'	5.32	1.48	1.41
25	BB	22	C	N1-C6	5.32	1.40	1.37
25	BB	464	U	C5-C6	5.32	1.39	1.34
25	BB	497	A	C6-N1	-5.32	1.31	1.35
25	BB	664	G	C2-N2	-5.32	1.29	1.34
25	BB	1110	G	P-O5'	5.32	1.65	1.59
25	BB	1908	C	C5'-C4'	5.32	1.57	1.51
25	BB	2370	G	C6-N1	-5.32	1.35	1.39
25	BB	2458	G	N9-C4	5.32	1.42	1.38
25	BB	2666	C	N3-C4	-5.32	1.30	1.33
3	A1	346	G	C2'-O2'	5.31	1.48	1.41
3	A1	485	U	C5'-C4'	5.31	1.57	1.51
3	A1	527	G	N3-C4	5.31	1.39	1.35
25	BB	379	G	C5'-C4'	5.31	1.57	1.51
25	BB	2239	G	N1-C2	-5.31	1.33	1.37
25	BB	2718	G	C2-N3	5.31	1.37	1.32
25	BB	876	C	C4-C5	-5.31	1.38	1.43
25	BB	1859	U	N1-C2	5.31	1.43	1.38
25	BB	2052	A	C8-N7	-5.31	1.27	1.31
25	BB	2363	G	C2'-O2'	5.31	1.48	1.41
25	BB	2370	G	N1-C2	-5.31	1.33	1.37
25	BB	2464	G	C2-N2	-5.31	1.29	1.34
25	BB	2831	G	C6-N1	-5.31	1.35	1.39
25	BB	2897	U	C2-N3	5.31	1.41	1.37
1	AE	24	G	C2'-O2'	5.31	1.48	1.41
3	A1	309	A	C5-C4	-5.31	1.35	1.38
3	A1	1492	A	C2'-O2'	5.31	1.48	1.41
25	BB	237	C	C2'-O2'	5.31	1.48	1.41
25	BB	504	A	O4'-C1'	5.31	1.48	1.41
25	BB	947	A	C6-N1	-5.31	1.31	1.35
25	BB	1064	C	C4'-C3'	-5.31	1.47	1.52
25	BB	1829	A	C5'-C4'	-5.31	1.45	1.51
25	BB	2666	C	C5-C6	-5.31	1.30	1.34
1	AA	63	C	C5'-C4'	5.31	1.57	1.51
1	AP	40	C	O3'-P	-5.31	1.54	1.61
3	A1	439	U	O5'-C5'	-5.31	1.34	1.42
3	A1	536	C	C1'-N1	5.31	1.56	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	928	G	C4'-C3'	5.31	1.58	1.53
3	A1	1339	A	C6-N1	-5.31	1.31	1.35
25	BB	50	U	C4'-O4'	-5.31	1.38	1.45
25	BB	81	G	N7-C5	-5.31	1.36	1.39
25	BB	134	G	C2-N2	-5.31	1.29	1.34
25	BB	474	G	N3-C4	5.31	1.39	1.35
25	BB	798	G	N7-C5	5.31	1.42	1.39
25	BB	1011	G	C2'-O2'	5.31	1.48	1.41
25	BB	1050	A	C6-N6	-5.31	1.29	1.33
25	BB	1540	G	C5-C6	5.31	1.47	1.42
25	BB	1766	G	N1-C2	-5.31	1.33	1.37
25	BB	2019	A	N3-C4	5.31	1.38	1.34
25	BB	2191	A	C2-N3	5.31	1.38	1.33
25	BB	2345	G	N3-C4	5.31	1.39	1.35
25	BB	2440	C	O4'-C1'	5.31	1.48	1.41
25	BB	2455	G	N3-C4	5.31	1.39	1.35
3	A1	323	U	C3'-C2'	5.31	1.58	1.52
3	A1	704	A	C6-N1	-5.31	1.31	1.35
3	A1	882	C	N1-C6	5.31	1.40	1.37
24	BA	14	U	N1-C2	5.31	1.43	1.38
24	BA	21	G	C5-C4	-5.31	1.34	1.38
24	BA	41	G	N1-C2	-5.31	1.33	1.37
25	BB	379	G	C5-C4	-5.31	1.34	1.38
25	BB	1394	U	C4'-C3'	5.31	1.58	1.53
25	BB	1777	U	N1-C6	5.31	1.42	1.38
25	BB	2194	U	O3'-P	-5.31	1.54	1.61
25	BB	2249	U	N1-C2	5.31	1.43	1.38
25	BB	2673	G	C8-N7	-5.31	1.27	1.30
1	AA	36	A	O3'-P	-5.31	1.54	1.61
1	AA	72	C	C4'-C3'	-5.31	1.47	1.52
3	A1	127	G	N9-C4	5.31	1.42	1.38
3	A1	147	G	C5-C4	5.31	1.42	1.38
3	A1	1138	G	C8-N7	-5.31	1.27	1.30
3	A1	1157	A	C3'-C2'	5.31	1.58	1.52
3	A1	1313	U	C4-C5	5.31	1.48	1.43
25	BB	434	U	O3'-P	-5.31	1.54	1.61
25	BB	2247	A	N9-C4	-5.31	1.34	1.37
1	AA	63	C	N1-C2	5.30	1.45	1.40
3	A1	22	G	N1-C2	-5.30	1.33	1.37
3	A1	91	U	O3'-P	-5.30	1.54	1.61
3	A1	806	C	P-O5'	5.30	1.65	1.59
3	A1	917	G	N9-C8	5.30	1.41	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	BA	24	G	C5-C4	5.30	1.42	1.38
25	BB	977	G	C4'-C3'	-5.30	1.47	1.52
25	BB	1118	C	C2-N3	5.30	1.40	1.35
25	BB	1769	U	C2-N3	5.30	1.41	1.37
25	BB	1960	A	C4'-O4'	-5.30	1.38	1.45
25	BB	2729	G	N9-C8	-5.30	1.34	1.37
3	A1	523	A	O3'-P	-5.30	1.54	1.61
3	A1	548	G	C5-C4	-5.30	1.34	1.38
3	A1	1103	C	C2-N3	5.30	1.40	1.35
3	A1	1528	U	C4-C5	5.30	1.48	1.43
25	BB	1813	G	O5'-C5'	-5.30	1.34	1.42
25	BB	2465	C	C2-N3	-5.30	1.31	1.35
28	BE	132	ARG	CZ-NH1	-5.30	1.26	1.33
1	AA	3	G	N7-C5	5.30	1.42	1.39
1	AA	4	G	N9-C8	-5.30	1.34	1.37
1	AA	36	A	N3-C4	5.30	1.38	1.34
3	A1	447	G	C2'-C1'	5.30	1.59	1.53
3	A1	714	G	C6-N1	-5.30	1.35	1.39
3	A1	922	G	N1-C2	-5.30	1.33	1.37
3	A1	983	A	C5-C4	5.30	1.42	1.38
3	A1	1102	A	N7-C5	5.30	1.42	1.39
3	A1	1212	U	O4'-C1'	5.30	1.48	1.41
3	A1	1533	C	N1-C6	5.30	1.40	1.37
25	BB	637	A	N3-C4	5.30	1.38	1.34
25	BB	785	G	C6-N1	5.30	1.43	1.39
25	BB	838	C	C2-O2	5.30	1.29	1.24
25	BB	865	C	C4'-C3'	5.30	1.58	1.53
25	BB	915	C	O3'-P	-5.30	1.54	1.61
25	BB	1149	G	N3-C4	5.30	1.39	1.35
25	BB	1275	A	C5-C4	5.30	1.42	1.38
25	BB	1461	C	C2'-C1'	-5.30	1.47	1.53
25	BB	1822	C	C4-N4	-5.30	1.29	1.33
25	BB	2251	G	P-O5'	5.30	1.65	1.59
25	BB	2268	A	P-O5'	-5.30	1.54	1.59
3	A1	132	C	P-O5'	5.30	1.65	1.59
3	A1	714	G	C4'-O4'	-5.30	1.38	1.45
3	A1	1530	G	P-O5'	-5.30	1.54	1.59
25	BB	133	U	O4'-C1'	5.30	1.48	1.41
25	BB	632	A	C4'-C3'	5.30	1.58	1.53
25	BB	816	C	O4'-C1'	-5.30	1.34	1.41
25	BB	939	G	O4'-C1'	5.30	1.48	1.41
25	BB	1143	A	C8-N7	-5.30	1.27	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1535	A	N3-C4	5.30	1.38	1.34
25	BB	2662	A	P-O5'	-5.30	1.54	1.59
25	BB	2757	A	N9-C4	-5.30	1.34	1.37
37	BN	72	GLY	CA-C	5.30	1.60	1.51
3	A1	97	G	C5-C6	5.30	1.47	1.42
3	A1	248	C	C4-C5	-5.30	1.38	1.43
3	A1	773	G	P-O5'	5.30	1.65	1.59
3	A1	1098	C	C3'-C2'	5.30	1.58	1.52
3	A1	1367	C	P-O5'	-5.30	1.54	1.59
24	BA	53	A	C5-C6	5.30	1.45	1.41
25	BB	1703	G	C5-C4	-5.30	1.34	1.38
25	BB	1845	G	C6-N1	-5.30	1.35	1.39
1	AP	32	C	C3'-C2'	5.30	1.58	1.52
1	AP	62	A	C6-N6	-5.30	1.29	1.33
1	AE	14	A	P-O5'	5.30	1.65	1.59
3	A1	190	A	O3'-P	-5.30	1.54	1.61
3	A1	677	U	O4'-C1'	5.30	1.48	1.41
3	A1	982	U	N3-C4	-5.30	1.33	1.38
3	A1	1399	C	O3'-P	-5.30	1.54	1.61
3	A1	1489	G	C5-C4	5.30	1.42	1.38
24	BA	21	G	O4'-C1'	5.30	1.48	1.41
25	BB	632	A	C8-N7	-5.30	1.27	1.31
25	BB	893	C	O3'-P	-5.30	1.54	1.61
25	BB	921	C	C1'-N1	5.30	1.56	1.48
25	BB	1066	U	C3'-C2'	5.30	1.58	1.52
25	BB	1667	G	N1-C2	-5.30	1.33	1.37
25	BB	1712	U	N1-C2	5.30	1.43	1.38
25	BB	1891	G	N9-C4	5.30	1.42	1.38
25	BB	2115	G	C8-N7	-5.30	1.27	1.30
25	BB	2753	A	C3'-C2'	5.30	1.58	1.52
25	BB	2223	G	C1'-N9	5.29	1.56	1.48
3	A1	186	C	C2-O2	5.29	1.29	1.24
3	A1	263	A	C6-N1	-5.29	1.31	1.35
3	A1	1092	A	C5-C4	-5.29	1.35	1.38
3	A1	1119	C	C3'-C2'	5.29	1.58	1.52
3	A1	1432	G	C5'-C4'	5.29	1.57	1.51
5	AC	36	ARG	CD-NE	5.29	1.55	1.46
25	BB	91	A	O3'-P	-5.29	1.54	1.61
25	BB	656	G	N1-C2	-5.29	1.33	1.37
25	BB	937	C	C5-C6	5.29	1.38	1.34
25	BB	2049	G	N9-C4	5.29	1.42	1.38
25	BB	2250	G	C2-N2	-5.29	1.29	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AE	65	G	N9-C8	-5.29	1.34	1.37
3	A1	929	G	P-O5'	-5.29	1.54	1.59
3	A1	1113	C	C4-N4	-5.29	1.29	1.33
3	A1	1416	G	N9-C8	-5.29	1.34	1.37
25	BB	154	U	O4'-C1'	5.29	1.48	1.41
25	BB	297	G	O3'-P	-5.29	1.54	1.61
25	BB	970	U	N3-C4	-5.29	1.33	1.38
25	BB	1133	A	N9-C4	-5.29	1.34	1.37
25	BB	1390	U	C2'-O2'	5.29	1.48	1.41
25	BB	2207	C	C4'-O4'	-5.29	1.38	1.45
25	BB	2484	G	C5-C4	-5.29	1.34	1.38
25	BB	2771	C	C1'-N1	5.29	1.56	1.48
25	BB	2866	U	N3-C4	-5.29	1.33	1.38
3	A1	78	A	N1-C2	-5.29	1.29	1.34
15	AO	106	ARG	CZ-NH1	-5.29	1.26	1.33
25	BB	819	A	O4'-C1'	5.29	1.48	1.41
25	BB	952	G	C6-O6	5.29	1.28	1.24
25	BB	1170	C	C2-N3	-5.29	1.31	1.35
25	BB	1603	A	C5-C4	-5.29	1.35	1.38
25	BB	2631	G	O5'-C5'	-5.29	1.34	1.42
1	AA	59	U	P-O5'	-5.29	1.54	1.59
3	A1	1122	U	O3'-P	-5.29	1.54	1.61
3	A1	1319	A	N3-C4	5.29	1.38	1.34
3	A1	1382	C	N3-C4	-5.29	1.30	1.33
3	A1	1494	G	N7-C5	5.29	1.42	1.39
25	BB	145	C	N3-C4	-5.29	1.30	1.33
25	BB	488	G	O4'-C1'	5.29	1.48	1.41
25	BB	1007	C	C5-C6	5.29	1.38	1.34
25	BB	1206	G	O3'-P	-5.29	1.54	1.61
25	BB	1226	A	C2'-C1'	-5.29	1.47	1.53
25	BB	2079	U	C2-N3	-5.29	1.34	1.37
25	BB	2278	A	C6-N1	-5.29	1.31	1.35
25	BB	2372	U	N1-C6	5.29	1.42	1.38
25	BB	2704	C	C5'-C4'	5.29	1.57	1.51
1	AA	31	A	C6-N6	-5.29	1.29	1.33
1	AP	26	G	C2-N3	-5.29	1.28	1.32
3	A1	951	G	N1-C2	-5.29	1.33	1.37
3	A1	1265	C	P-O5'	-5.29	1.54	1.59
17	AR	129	VAL	CB-CG2	5.29	1.64	1.52
25	BB	435	C	C3'-C2'	5.29	1.58	1.52
25	BB	1390	U	O4'-C1'	5.29	1.48	1.41
25	BB	1604	C	C3'-C2'	5.29	1.58	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1708	C	N1-C2	-5.29	1.34	1.40
25	BB	2679	A	C5-C6	5.29	1.45	1.41
1	AA	48	C	C4'-O4'	-5.29	1.38	1.45
3	A1	183	C	C4-C5	-5.29	1.38	1.43
3	A1	481	G	C2-N3	-5.29	1.28	1.32
25	BB	190	A	C2-N3	5.29	1.38	1.33
25	BB	748	G	N3-C4	-5.29	1.31	1.35
25	BB	1565	C	C4-N4	-5.29	1.29	1.33
25	BB	1589	U	N3-C4	5.29	1.43	1.38
25	BB	1725	U	N3-C4	-5.29	1.33	1.38
25	BB	1850	G	N9-C8	5.29	1.41	1.37
25	BB	1885	A	N3-C4	5.29	1.38	1.34
25	BB	2261	C	C3'-C2'	-5.29	1.47	1.52
25	BB	2902	C	C5'-C4'	5.29	1.57	1.51
1	AA	52	U	C5-C6	5.28	1.39	1.34
1	AE	35	A	C5-C4	-5.28	1.35	1.38
3	A1	861	G	C5-C4	5.28	1.42	1.38
3	A1	868	C	O3'-P	5.28	1.67	1.61
3	A1	1467	C	N1-C6	5.28	1.40	1.37
25	BB	104	A	N3-C4	5.28	1.38	1.34
25	BB	134	G	N1-C2	-5.28	1.33	1.37
25	BB	257	C	N1-C6	5.28	1.40	1.37
25	BB	1161	C	C4'-O4'	-5.28	1.38	1.45
25	BB	1232	G	C2'-C1'	-5.28	1.47	1.53
25	BB	1624	U	C4'-C3'	-5.28	1.47	1.52
25	BB	1853	A	N9-C8	-5.28	1.33	1.37
25	BB	2130	U	N1-C6	5.28	1.42	1.38
25	BB	2195	U	O3'-P	-5.28	1.54	1.61
25	BB	297	G	C2-N3	-5.28	1.28	1.32
25	BB	485	C	N1-C6	5.28	1.40	1.37
25	BB	886	A	C2'-C1'	5.28	1.59	1.53
1	AA	69	U	C2'-C1'	5.28	1.59	1.53
3	A1	98	A	C8-N7	-5.28	1.27	1.31
3	A1	603	U	P-O5'	5.28	1.65	1.59
3	A1	687	A	C4'-O4'	-5.28	1.38	1.45
25	BB	117	G	N3-C4	-5.28	1.31	1.35
25	BB	134	G	N7-C5	5.28	1.42	1.39
25	BB	338	G	N7-C5	-5.28	1.36	1.39
25	BB	603	A	C5'-C4'	5.28	1.57	1.51
25	BB	669	G	N3-C4	5.28	1.39	1.35
25	BB	1474	U	C5'-C4'	5.28	1.57	1.51
25	BB	1744	A	C6-N1	-5.28	1.31	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1876	A	C5-C4	-5.28	1.35	1.38
25	BB	2300	C	C5'-C4'	5.28	1.57	1.51
25	BB	2458	G	N3-C4	5.28	1.39	1.35
25	BB	2537	U	C2'-O2'	5.28	1.48	1.41
36	BM	84	TYR	CE1-CZ	5.28	1.45	1.38
25	BB	938	G	N7-C5	5.28	1.42	1.39
25	BB	1479	G	C4'-O4'	-5.28	1.38	1.45
25	BB	1502	A	C5'-C4'	5.28	1.57	1.51
25	BB	2519	U	O3'-P	-5.28	1.54	1.61
25	BB	2620	C	C4'-O4'	-5.28	1.38	1.45
25	BB	2902	C	C4-C5	5.28	1.47	1.43
3	A1	880	C	C3'-C2'	5.28	1.58	1.52
3	A1	1163	A	P-O5'	5.28	1.65	1.59
3	A1	1195	C	P-O5'	-5.28	1.54	1.59
24	BA	87	U	C2-N3	5.28	1.41	1.37
25	BB	194	G	C8-N7	-5.28	1.27	1.30
25	BB	553	G	C2'-C1'	-5.28	1.47	1.53
25	BB	1224	U	N1-C2	5.28	1.43	1.38
25	BB	1647	U	C4-C5	5.28	1.48	1.43
25	BB	2565	A	C4'-C3'	5.28	1.58	1.53
25	BB	2627	G	C4'-C3'	5.28	1.58	1.53
25	BB	2632	A	O3'-P	-5.28	1.54	1.61
53	B4	114	GLU	CD-OE2	5.28	1.31	1.25
3	A1	41	G	O4'-C1'	5.28	1.48	1.41
3	A1	353	A	N3-C4	5.28	1.38	1.34
3	A1	718	A	C4'-C3'	5.28	1.58	1.53
3	A1	800	G	P-O5'	5.28	1.65	1.59
3	A1	987	G	C6-O6	-5.28	1.19	1.24
3	A1	1394	A	C8-N7	5.28	1.35	1.31
22	AW	79	ARG	CD-NE	5.28	1.55	1.46
25	BB	1710	G	C5-C4	-5.28	1.34	1.38
46	BW	7	ARG	CZ-NH1	-5.28	1.26	1.33
1	AA	67	A	N9-C8	5.27	1.42	1.37
3	A1	316	C	O3'-P	-5.27	1.54	1.61
24	BA	85	G	C2-N2	-5.27	1.29	1.34
25	BB	1801	A	C6-N6	-5.27	1.29	1.33
25	BB	2127	G	C6-O6	-5.27	1.19	1.24
25	BB	2574	G	C2-N2	-5.27	1.29	1.34
25	BB	2712	C	C4'-C3'	5.27	1.58	1.53
25	BB	2725	A	P-O5'	-5.27	1.54	1.59
3	A1	65	A	N9-C8	5.27	1.42	1.37
3	A1	353	A	N9-C8	5.27	1.42	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	549	C	N3-C4	-5.27	1.30	1.33
3	A1	558	G	C6-O6	5.27	1.28	1.24
24	BA	37	C	N1-C6	5.27	1.40	1.37
25	BB	1130	U	C3'-C2'	5.27	1.58	1.52
25	BB	1236	G	N7-C5	5.27	1.42	1.39
25	BB	2685	G	N3-C4	5.27	1.39	1.35
25	BB	2702	G	C8-N7	-5.27	1.27	1.30
25	BB	2742	G	C2-N2	-5.27	1.29	1.34
25	BB	2854	G	N1-C2	-5.27	1.33	1.37
47	BX	36	ARG	CZ-NH1	-5.27	1.26	1.33
1	AA	37	G	C5'-C4'	5.27	1.57	1.51
16	AQ	17	ARG	CZ-NH1	-5.27	1.26	1.33
25	BB	186	G	N7-C5	5.27	1.42	1.39
25	BB	2531	A	N9-C8	5.27	1.42	1.37
25	BB	2582	G	N9-C4	-5.27	1.33	1.38
25	BB	2743	U	C2-N3	-5.27	1.34	1.37
3	A1	751	U	C2-O2	-5.27	1.17	1.22
3	A1	1327	C	C4-N4	-5.27	1.29	1.33
24	BA	24	G	N1-C2	-5.27	1.33	1.37
25	BB	146	A	N3-C4	5.27	1.38	1.34
25	BB	155	A	C6-N6	-5.27	1.29	1.33
25	BB	532	A	C4'-O4'	-5.27	1.38	1.45
25	BB	849	A	P-O5'	5.27	1.65	1.59
25	BB	851	C	C4'-C3'	5.27	1.58	1.53
25	BB	1219	U	P-O5'	5.27	1.65	1.59
25	BB	1522	A	C5-C4	-5.27	1.35	1.38
25	BB	1676	A	N3-C4	-5.27	1.31	1.34
25	BB	1924	C	P-O5'	-5.27	1.54	1.59
25	BB	2315	G	C2-N2	-5.27	1.29	1.34
25	BB	2367	G	N9-C8	-5.27	1.34	1.37
25	BB	2744	G	C4'-O4'	-5.27	1.38	1.45
1	AE	50	U	O4'-C1'	5.27	1.48	1.41
3	A1	52	C	C4'-O4'	-5.27	1.38	1.45
3	A1	199	A	C3'-C2'	-5.27	1.47	1.52
3	A1	543	U	N1-C6	5.27	1.42	1.38
3	A1	572	A	N1-C2	-5.27	1.29	1.34
3	A1	863	U	O4'-C1'	5.27	1.48	1.41
3	A1	1143	G	O5'-C5'	5.27	1.52	1.44
3	A1	1190	G	C2-N2	-5.27	1.29	1.34
3	A1	1225	A	C3'-C2'	5.27	1.58	1.52
24	BA	70	C	N1-C6	-5.27	1.33	1.37
25	BB	212	G	C2-N2	-5.27	1.29	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1023	U	C5'-C4'	5.27	1.57	1.51
25	BB	1109	C	C2-N3	-5.27	1.31	1.35
25	BB	1206	G	C8-N7	-5.27	1.27	1.30
25	BB	2036	C	C4'-O4'	-5.27	1.38	1.45
25	BB	2287	A	N9-C4	-5.27	1.34	1.37
25	BB	2686	G	C5-C6	5.27	1.47	1.42
3	A1	68	G	N3-C4	5.27	1.39	1.35
3	A1	1078	U	C2-N3	5.27	1.41	1.37
3	A1	1250	A	C5-C6	5.27	1.45	1.41
25	BB	137	U	O3'-P	5.27	1.67	1.61
25	BB	187	G	C5-C4	-5.27	1.34	1.38
25	BB	452	G	O3'-P	5.27	1.67	1.61
25	BB	768	G	C5'-C4'	5.27	1.57	1.51
25	BB	962	G	O4'-C1'	-5.27	1.34	1.41
25	BB	1135	C	C2-O2	-5.27	1.19	1.24
25	BB	1291	C	C2-N3	-5.27	1.31	1.35
25	BB	1887	C	C4-N4	-5.27	1.29	1.33
25	BB	2253	G	N7-C5	-5.27	1.36	1.39
1	AE	20	G	N9-C8	5.26	1.41	1.37
3	A1	650	G	C3'-C2'	5.26	1.58	1.52
3	A1	814	A	N9-C8	-5.26	1.33	1.37
3	A1	1023	U	C5'-C4'	5.26	1.57	1.51
3	A1	1055	A	C6-N6	-5.26	1.29	1.33
3	A1	1529	G	N7-C5	5.26	1.42	1.39
15	AO	200	TRP	CG-CD2	5.26	1.52	1.43
25	BB	484	C	C2'-O2'	-5.26	1.34	1.41
25	BB	675	A	C4'-C3'	-5.26	1.47	1.52
25	BB	716	A	N3-C4	5.26	1.38	1.34
25	BB	818	G	N3-C4	5.26	1.39	1.35
25	BB	846	U	P-O5'	5.26	1.65	1.59
25	BB	886	A	N1-C2	-5.26	1.29	1.34
25	BB	1123	C	C4-C5	-5.26	1.38	1.43
3	A1	125	U	C3'-O3'	5.26	1.49	1.42
3	A1	1234	C	C3'-C2'	5.26	1.58	1.52
3	A1	1307	U	C2'-C1'	5.26	1.59	1.53
3	A1	1369	C	C4'-C3'	-5.26	1.47	1.52
3	A1	1508	A	C5'-C4'	5.26	1.57	1.51
25	BB	116	C	N1-C2	5.26	1.45	1.40
25	BB	431	U	O3'-P	-5.26	1.54	1.61
25	BB	704	G	C2'-C1'	-5.26	1.47	1.53
25	BB	1238	G	C5'-C4'	5.26	1.57	1.51
25	BB	1558	C	N3-C4	-5.26	1.30	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1970	A	C1'-N9	5.26	1.56	1.48
25	BB	2901	C	C5'-C4'	5.26	1.57	1.51
3	A1	5	U	C2'-C1'	5.26	1.59	1.53
3	A1	428	G	N9-C4	-5.26	1.33	1.38
3	A1	714	G	N1-C2	-5.26	1.33	1.37
3	A1	1079	G	C5-C4	5.26	1.42	1.38
24	BA	19	C	N1-C6	5.26	1.40	1.37
25	BB	227	A	N9-C4	5.26	1.41	1.37
25	BB	495	G	C2-N2	-5.26	1.29	1.34
25	BB	991	C	O3'-P	-5.26	1.54	1.61
25	BB	1258	U	C4-C5	5.26	1.48	1.43
25	BB	1533	C	O3'-P	-5.26	1.54	1.61
25	BB	1538	G	C6-O6	5.26	1.28	1.24
25	BB	1738	G	C6-N1	-5.26	1.35	1.39
25	BB	2564	A	P-O5'	5.26	1.65	1.59
2	AM	8	U	C4-C5	5.26	1.48	1.43
3	A1	597	G	N1-C2	-5.26	1.33	1.37
3	A1	620	C	N3-C4	-5.26	1.30	1.33
3	A1	972	C	C4-C5	-5.26	1.38	1.43
3	A1	1022	A	C8-N7	-5.26	1.27	1.31
3	A1	1052	U	O3'-P	5.26	1.67	1.61
3	A1	1162	C	C5'-C4'	5.26	1.57	1.51
3	A1	1296	C	C4-C5	-5.26	1.38	1.43
3	A1	1301	U	P-O5'	-5.26	1.54	1.59
25	BB	363	G	C2-N2	-5.26	1.29	1.34
25	BB	514	A	N9-C4	5.26	1.41	1.37
25	BB	669	G	C2-N2	-5.26	1.29	1.34
25	BB	778	G	N3-C4	5.26	1.39	1.35
25	BB	1205	A	C6-N6	5.26	1.38	1.33
25	BB	1577	C	C2'-C1'	5.26	1.59	1.53
25	BB	1917	U	C2-N3	5.26	1.41	1.37
25	BB	2122	U	P-OP1	-5.26	1.40	1.49
25	BB	2406	A	C5'-C4'	5.26	1.57	1.51
25	BB	2583	G	C8-N7	-5.26	1.27	1.30
25	BB	2772	C	P-O5'	-5.26	1.54	1.59
1	AE	74	C	C4'-O4'	-5.26	1.38	1.45
3	A1	204	G	C5-C6	5.26	1.47	1.42
3	A1	294	U	C2-N3	5.26	1.41	1.37
3	A1	414	A	N3-C4	5.26	1.38	1.34
3	A1	706	A	C6-N6	-5.26	1.29	1.33
3	A1	721	G	O3'-P	-5.26	1.54	1.61
3	A1	797	C	C4-C5	-5.26	1.38	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1024	G	C2-N2	-5.26	1.29	1.34
3	A1	1482	G	C2'-O2'	5.26	1.48	1.41
25	BB	147	C	N3-C4	-5.26	1.30	1.33
25	BB	343	C	N1-C2	-5.26	1.34	1.40
25	BB	2331	G	C5-C6	5.26	1.47	1.42
25	BB	2592	G	C5-C6	5.26	1.47	1.42
1	AE	18	G	C5-C4	-5.26	1.34	1.38
3	A1	488	C	N1-C6	-5.26	1.33	1.37
3	A1	602	A	O3'-P	-5.26	1.54	1.61
3	A1	617	G	C2-N2	-5.26	1.29	1.34
3	A1	641	U	C4-O4	-5.26	1.19	1.23
3	A1	777	A	N3-C4	5.26	1.38	1.34
24	BA	7	G	C2-N2	-5.26	1.29	1.34
25	BB	137	U	C4'-O4'	-5.26	1.38	1.45
25	BB	301	G	C3'-C2'	5.26	1.58	1.52
25	BB	799	G	N9-C4	-5.26	1.33	1.38
25	BB	1299	G	N9-C8	5.26	1.41	1.37
25	BB	1456	G	C6-O6	-5.26	1.19	1.24
25	BB	1625	C	C4-C5	-5.26	1.38	1.43
25	BB	1745	A	N9-C8	5.26	1.42	1.37
25	BB	1811	G	C8-N7	-5.26	1.27	1.30
25	BB	2314	A	O5'-C5'	-5.26	1.34	1.42
25	BB	2605	U	C5'-C4'	5.26	1.57	1.51
3	A1	201	G	C2'-O2'	5.25	1.48	1.41
25	BB	148	U	C5'-C4'	5.25	1.57	1.51
25	BB	2245	U	N1-C2	5.25	1.43	1.38
25	BB	2360	G	P-O5'	-5.25	1.54	1.59
25	BB	2620	C	C4-N4	-5.25	1.29	1.33
1	AP	42	G	C2-N3	-5.25	1.28	1.32
3	A1	421	U	P-O5'	-5.25	1.54	1.59
3	A1	621	A	C6-N1	-5.25	1.31	1.35
3	A1	702	A	N9-C4	5.25	1.41	1.37
3	A1	925	G	C4'-C3'	5.25	1.58	1.53
3	A1	998	C	N3-C4	-5.25	1.30	1.33
25	BB	324	A	N9-C8	5.25	1.42	1.37
25	BB	648	G	P-O5'	5.25	1.65	1.59
25	BB	1575	C	O3'-P	-5.25	1.54	1.61
25	BB	1713	A	P-O5'	-5.25	1.54	1.59
25	BB	1869	G	N3-C4	5.25	1.39	1.35
25	BB	2069	G	N1-C2	-5.25	1.33	1.37
25	BB	2163	A	N3-C4	5.25	1.38	1.34
3	A1	329	A	C3'-C2'	5.25	1.58	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	452	A	C6-N6	-5.25	1.29	1.33
3	A1	625	U	C1'-N1	5.25	1.56	1.48
3	A1	1387	G	N3-C4	-5.25	1.31	1.35
12	AK	56	ARG	NE-CZ	-5.25	1.26	1.33
25	BB	408	G	C4'-O4'	-5.25	1.38	1.45
25	BB	450	G	C2'-O2'	5.25	1.48	1.41
25	BB	848	C	P-O5'	-5.25	1.54	1.59
25	BB	954	G	C4'-O4'	-5.25	1.38	1.45
25	BB	1120	G	C5'-C4'	5.25	1.57	1.51
25	BB	1124	G	C2'-C1'	5.25	1.59	1.53
25	BB	1154	G	C5-C6	5.25	1.47	1.42
25	BB	1809	A	N7-C5	5.25	1.42	1.39
25	BB	2155	U	C4'-C3'	5.25	1.58	1.53
25	BB	2167	U	N3-C4	-5.25	1.33	1.38
3	A1	85	U	C2'-C1'	-5.25	1.47	1.53
3	A1	300	A	C8-N7	5.25	1.35	1.31
3	A1	887	G	C2-N2	-5.25	1.29	1.34
25	BB	17	G	C5'-C4'	5.25	1.57	1.51
25	BB	2758	A	C8-N7	5.25	1.35	1.31
3	A1	834	U	N1-C6	-5.25	1.33	1.38
3	A1	1015	G	N9-C8	5.25	1.41	1.37
3	A1	1068	G	C2-N3	-5.25	1.28	1.32
3	A1	1069	C	C3'-C2'	5.25	1.58	1.52
25	BB	136	G	C5-C4	-5.25	1.34	1.38
25	BB	599	A	N3-C4	-5.25	1.31	1.34
25	BB	1021	A	N9-C4	-5.25	1.34	1.37
25	BB	1397	U	N1-C2	5.25	1.43	1.38
25	BB	2414	G	N1-C2	-5.25	1.33	1.37
25	BB	2431	U	C2'-C1'	5.25	1.59	1.53
1	AP	34	G	C5-C6	5.25	1.47	1.42
3	A1	169	C	C4'-C3'	5.25	1.58	1.53
3	A1	445	G	C5'-C4'	5.25	1.57	1.51
3	A1	571	U	C2-O2	5.25	1.27	1.22
3	A1	1190	G	C3'-C2'	5.25	1.58	1.52
3	A1	1475	G	C5-C6	5.25	1.47	1.42
24	BA	52	A	O4'-C1'	5.25	1.48	1.41
24	BA	100	G	C2-N2	-5.25	1.29	1.34
25	BB	467	G	N9-C4	5.25	1.42	1.38
25	BB	948	C	C4'-O4'	-5.25	1.38	1.45
25	BB	1430	G	C5'-C4'	5.25	1.57	1.51
25	BB	1853	A	C5-C4	-5.25	1.35	1.38
25	BB	2429	G	C6-O6	-5.25	1.19	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2735	G	N9-C8	-5.25	1.34	1.37
3	A1	1528	U	C5-C6	5.25	1.38	1.34
25	BB	324	A	C5-C6	5.25	1.45	1.41
25	BB	757	G	C5-C6	-5.25	1.37	1.42
25	BB	1060	U	C4-C5	5.25	1.48	1.43
25	BB	2370	G	C2-N2	-5.25	1.29	1.34
25	BB	2411	A	C4'-O4'	-5.25	1.38	1.45
1	AA	11	C	C4'-C3'	5.24	1.58	1.53
3	A1	481	G	N3-C4	5.24	1.39	1.35
25	BB	440	C	O4'-C1'	-5.24	1.34	1.41
25	BB	832	U	C3'-C2'	-5.24	1.47	1.52
25	BB	851	C	C3'-C2'	5.24	1.58	1.52
25	BB	896	A	C4'-O4'	-5.24	1.38	1.45
25	BB	1217	U	C4'-O4'	-5.24	1.38	1.45
25	BB	1446	C	C2'-O2'	5.24	1.48	1.41
25	BB	1577	C	C4'-O4'	-5.24	1.38	1.45
25	BB	1841	U	C4'-C3'	5.24	1.58	1.53
25	BB	1857	G	P-O5'	-5.24	1.54	1.59
25	BB	1914	C	N3-C4	-5.24	1.30	1.33
25	BB	2046	G	N1-C2	-5.24	1.33	1.37
25	BB	2265	U	N1-C6	5.24	1.42	1.38
25	BB	2277	G	P-O5'	-5.24	1.54	1.59
1	AE	20	G	C6-O6	-5.24	1.19	1.24
20	AU	32	ASP	CA-CB	5.24	1.65	1.53
25	BB	763	G	C5-C4	5.24	1.42	1.38
25	BB	767	U	C5-C6	5.24	1.38	1.34
25	BB	945	A	C5'-C4'	5.24	1.57	1.51
25	BB	1426	G	C5'-C4'	5.24	1.57	1.51
25	BB	1457	U	C3'-O3'	5.24	1.49	1.42
25	BB	1651	G	C6-O6	-5.24	1.19	1.24
25	BB	2091	C	C4'-O4'	-5.24	1.38	1.45
25	BB	2199	A	N3-C4	5.24	1.38	1.34
50	B1	101	TYR	CE2-CZ	5.24	1.45	1.38
3	A1	466	A	N1-C2	5.24	1.39	1.34
3	A1	469	C	C4'-O4'	-5.24	1.38	1.45
3	A1	701	U	C4-O4	-5.24	1.19	1.23
3	A1	1103	C	C5'-C4'	5.24	1.57	1.51
3	A1	1462	C	C4-C5	-5.24	1.38	1.43
25	BB	276	U	P-O5'	-5.24	1.54	1.59
25	BB	462	C	C1'-N1	5.24	1.56	1.48
25	BB	697	G	C4'-C3'	5.24	1.58	1.53
25	BB	841	G	C2'-O2'	5.24	1.48	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1041	G	C6-N1	-5.24	1.35	1.39
25	BB	1981	A	C3'-C2'	5.24	1.58	1.52
25	BB	2835	A	C2-N3	-5.24	1.28	1.33
25	BB	2852	G	C6-O6	-5.24	1.19	1.24
27	BD	55	GLY	CA-C	5.24	1.60	1.51
3	A1	135	C	C3'-O3'	5.24	1.49	1.42
3	A1	348	G	N9-C4	5.24	1.42	1.38
3	A1	492	C	N1-C2	5.24	1.45	1.40
3	A1	1414	U	C4'-O4'	-5.24	1.38	1.45
25	BB	548	G	C5-C4	5.24	1.42	1.38
25	BB	2038	G	C6-N1	-5.24	1.35	1.39
25	BB	2427	C	N3-C4	5.24	1.37	1.33
25	BB	2703	C	C3'-C2'	5.24	1.58	1.52
25	BB	2804	U	C4-O4	5.24	1.27	1.23
27	BD	4	GLU	CG-CD	5.24	1.59	1.51
39	BP	78	PHE	CE1-CZ	5.24	1.47	1.37
25	BB	71	A	N1-C2	-5.24	1.29	1.34
25	BB	625	G	C2-N2	-5.24	1.29	1.34
25	BB	1204	A	C5-C4	-5.24	1.35	1.38
25	BB	1854	A	C5'-C4'	5.24	1.57	1.51
25	BB	2437	G	C5-C4	-5.24	1.34	1.38
25	BB	2793	C	N3-C4	-5.24	1.30	1.33
3	A1	356	A	N1-C2	-5.24	1.29	1.34
3	A1	629	A	C2'-C1'	5.24	1.59	1.53
3	A1	774	G	P-O5'	5.24	1.65	1.59
3	A1	972	C	O4'-C1'	5.24	1.48	1.41
3	A1	973	G	C4'-O4'	-5.24	1.38	1.45
3	A1	1120	C	C4-C5	5.24	1.47	1.43
3	A1	1221	G	C4'-C3'	5.24	1.58	1.53
3	A1	1418	A	N9-C4	-5.24	1.34	1.37
24	BA	93	C	C4-N4	-5.24	1.29	1.33
25	BB	425	G	N7-C5	5.24	1.42	1.39
25	BB	920	A	N9-C8	5.24	1.42	1.37
25	BB	959	A	N3-C4	5.24	1.38	1.34
25	BB	1403	A	C4'-O4'	-5.24	1.38	1.45
25	BB	2094	A	C6-N1	-5.24	1.31	1.35
25	BB	2346	A	C5'-C4'	5.24	1.57	1.51
25	BB	2587	A	O3'-P	-5.24	1.54	1.61
25	BB	2773	C	P-O5'	-5.24	1.54	1.59
25	BB	2793	C	N1-C6	5.24	1.40	1.37
25	BB	2807	U	N1-C2	-5.24	1.33	1.38
1	AE	43	G	C2'-O2'	5.23	1.48	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	78	A	C2'-C1'	5.23	1.59	1.53
3	A1	393	A	C2'-C1'	-5.23	1.47	1.53
3	A1	497	G	N3-C4	5.23	1.39	1.35
3	A1	586	C	C5-C6	5.23	1.38	1.34
3	A1	656	G	O3'-P	-5.23	1.54	1.61
3	A1	716	A	C5'-C4'	5.23	1.57	1.51
24	BA	25	U	N1-C2	5.23	1.43	1.38
25	BB	564	C	C2-O2	-5.23	1.19	1.24
25	BB	622	G	C2-N2	-5.23	1.29	1.34
25	BB	864	G	C4'-O4'	-5.23	1.38	1.45
25	BB	1457	U	C2-O2	5.23	1.27	1.22
25	BB	2134	A	P-OP1	-5.23	1.40	1.49
25	BB	2255	G	C5-C6	5.23	1.47	1.42
25	BB	2823	A	O3'-P	-5.23	1.54	1.61
1	AA	74	C	C2-O2	-5.23	1.19	1.24
3	A1	580	C	C2'-C1'	5.23	1.59	1.53
3	A1	706	A	C5'-C4'	5.23	1.57	1.51
3	A1	1323	G	C2-N2	-5.23	1.29	1.34
25	BB	151	C	N3-C4	5.23	1.37	1.33
25	BB	273	G	C2-N2	-5.23	1.29	1.34
25	BB	559	G	C2-N2	-5.23	1.29	1.34
25	BB	572	A	C4'-O4'	-5.23	1.38	1.45
25	BB	1015	U	C4'-C3'	5.23	1.58	1.53
25	BB	1034	G	N9-C4	5.23	1.42	1.38
25	BB	1084	A	P-O5'	5.23	1.65	1.59
25	BB	1205	A	O3'-P	-5.23	1.54	1.61
25	BB	1519	G	C4'-O4'	-5.23	1.38	1.45
25	BB	1590	A	N1-C2	-5.23	1.29	1.34
25	BB	1836	C	N3-C4	-5.23	1.30	1.33
25	BB	2076	U	C3'-C2'	-5.23	1.47	1.52
25	BB	2707	U	C4-C5	5.23	1.48	1.43
1	AE	43	G	C5'-C4'	5.23	1.57	1.51
3	A1	68	G	N1-C2	-5.23	1.33	1.37
3	A1	462	G	N9-C8	5.23	1.41	1.37
3	A1	493	A	O3'-P	-5.23	1.54	1.61
3	A1	1037	C	N3-C4	-5.23	1.30	1.33
3	A1	1043	G	N3-C4	5.23	1.39	1.35
3	A1	1167	A	C4'-C3'	5.23	1.58	1.53
3	A1	1511	G	N7-C5	5.23	1.42	1.39
20	AU	94	ARG	CZ-NH1	-5.23	1.26	1.33
25	BB	356	G	N1-C2	-5.23	1.33	1.37
25	BB	601	C	C4-C5	-5.23	1.38	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2238	G	C6-O6	5.23	1.28	1.24
3	A1	296	U	N1-C2	5.23	1.43	1.38
3	A1	589	U	P-O5'	-5.23	1.54	1.59
3	A1	1339	A	N1-C2	-5.23	1.29	1.34
25	BB	1169	A	C5'-C4'	5.23	1.57	1.51
1	AP	38	A	C3'-C2'	5.23	1.58	1.52
1	AE	57	G	N7-C5	-5.23	1.36	1.39
3	A1	334	C	C2-N3	-5.23	1.31	1.35
3	A1	454	G	C5'-C4'	5.23	1.57	1.51
3	A1	478	A	C6-N1	-5.23	1.31	1.35
3	A1	558	G	N3-C4	5.23	1.39	1.35
3	A1	1198	G	C2-N3	-5.23	1.28	1.32
3	A1	1317	C	P-O5'	5.23	1.65	1.59
3	A1	1330	U	C2'-C1'	5.23	1.59	1.53
24	BA	26	C	C2-O2	-5.23	1.19	1.24
25	BB	1026	G	N7-C5	-5.23	1.36	1.39
25	BB	1883	U	C4-C5	5.23	1.48	1.43
25	BB	1939	U	C2-O2	5.23	1.27	1.22
25	BB	1946	U	C2'-C1'	-5.23	1.47	1.53
25	BB	1971	U	O3'-P	-5.23	1.54	1.61
25	BB	1991	U	C5'-C4'	5.23	1.57	1.51
25	BB	2346	A	C5-C6	5.23	1.45	1.41
25	BB	2606	C	N1-C6	5.23	1.40	1.37
37	BN	100	ARG	CZ-NH1	-5.23	1.26	1.33
1	AA	11	C	C3'-C2'	5.23	1.58	1.52
3	A1	1116	U	N3-C4	-5.23	1.33	1.38
3	A1	1296	C	N1-C2	-5.23	1.34	1.40
3	A1	1502	A	C6-N1	5.23	1.39	1.35
25	BB	1661	G	C5'-C4'	5.23	1.57	1.51
25	BB	2279	G	N3-C4	5.23	1.39	1.35
50	B1	84	THR	N-CA	5.23	1.56	1.46
3	A1	579	A	C3'-C2'	5.22	1.58	1.52
3	A1	1059	C	C3'-C2'	5.22	1.58	1.52
3	A1	1151	A	C2-N3	-5.22	1.28	1.33
25	BB	593	U	C5-C6	5.22	1.38	1.34
25	BB	901	C	C5'-C4'	5.22	1.57	1.51
25	BB	1408	G	C2'-O2'	5.22	1.48	1.41
25	BB	2253	G	P-O5'	-5.22	1.54	1.59
51	B2	114	ARG	CZ-NH1	-5.22	1.26	1.33
1	AP	22	G	C5-C4	-5.22	1.34	1.38
1	AE	26	G	C4'-O4'	-5.22	1.38	1.45
3	A1	319	G	N7-C5	5.22	1.42	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	473	U	N3-C4	-5.22	1.33	1.38
3	A1	1168	U	C5'-C4'	5.22	1.57	1.51
3	A1	1461	G	C6-N1	5.22	1.43	1.39
25	BB	621	A	C4'-C3'	5.22	1.58	1.53
25	BB	957	C	C4-C5	-5.22	1.38	1.43
25	BB	1190	G	C4'-O4'	-5.22	1.38	1.45
25	BB	1225	G	N9-C8	5.22	1.41	1.37
25	BB	1475	G	P-O5'	5.22	1.65	1.59
3	A1	1396	A	N1-C2	-5.22	1.29	1.34
25	BB	1291	C	N1-C6	5.22	1.40	1.37
3	A1	750	C	N3-C4	-5.22	1.30	1.33
3	A1	1098	C	P-O5'	-5.22	1.54	1.59
24	BA	59	A	N3-C4	5.22	1.38	1.34
24	BA	83	G	N9-C8	-5.22	1.34	1.37
25	BB	373	U	C5-C6	5.22	1.38	1.34
25	BB	693	A	C6-N1	-5.22	1.31	1.35
25	BB	845	A	C6-N1	-5.22	1.31	1.35
25	BB	939	G	N7-C5	5.22	1.42	1.39
25	BB	2003	A	C3'-C2'	5.22	1.58	1.52
25	BB	2012	G	C4'-O4'	-5.22	1.38	1.45
25	BB	2186	G	O4'-C1'	5.22	1.48	1.41
25	BB	2716	C	N3-C4	-5.22	1.30	1.33
25	BB	2736	A	N9-C8	5.22	1.42	1.37
25	BB	2800	A	C5'-C4'	5.22	1.57	1.51
3	A1	779	C	P-OP1	-5.22	1.40	1.49
3	A1	950	U	N1-C2	5.22	1.43	1.38
25	BB	786	C	C3'-O3'	5.22	1.49	1.42
25	BB	948	C	C4-N4	-5.22	1.29	1.33
25	BB	1779	U	N1-C2	5.22	1.43	1.38
25	BB	1929	G	N7-C5	5.22	1.42	1.39
25	BB	2655	G	C4'-C3'	5.22	1.58	1.53
1	AA	6	U	C5-C6	5.22	1.38	1.34
3	A1	429	U	P-O5'	5.22	1.65	1.59
3	A1	808	C	C4-C5	-5.22	1.38	1.43
25	BB	350	G	O3'-P	-5.22	1.54	1.61
25	BB	667	U	O4'-C1'	5.22	1.48	1.41
25	BB	784	G	C1'-N9	5.22	1.56	1.48
25	BB	1520	U	N3-C4	-5.22	1.33	1.38
25	BB	1666	G	O4'-C1'	-5.22	1.34	1.41
25	BB	1984	G	N9-C8	-5.22	1.34	1.37
25	BB	2045	C	C2-N3	-5.22	1.31	1.35
25	BB	2133	G	C2-N3	-5.22	1.28	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	98	A	C6-N6	-5.21	1.29	1.33
3	A1	113	G	O4'-C1'	5.21	1.48	1.41
3	A1	1035	A	N3-C4	5.21	1.38	1.34
3	A1	1077	G	N7-C5	-5.21	1.36	1.39
3	A1	1180	A	C2'-O2'	-5.21	1.34	1.41
3	A1	1364	U	O4'-C1'	5.21	1.48	1.41
25	BB	417	C	C4-N4	-5.21	1.29	1.33
25	BB	754	U	N1-C6	5.21	1.42	1.38
25	BB	1602	U	C4'-C3'	5.21	1.58	1.53
25	BB	1626	A	C5'-C4'	5.21	1.57	1.51
25	BB	1849	G	N9-C4	-5.21	1.33	1.38
25	BB	1889	A	P-O5'	5.21	1.65	1.59
25	BB	1919	A	C6-N6	-5.21	1.29	1.33
25	BB	1969	A	N9-C8	-5.21	1.33	1.37
25	BB	2173	A	C5-C6	5.21	1.45	1.41
25	BB	2299	U	C4-O4	-5.21	1.19	1.23
25	BB	2481	G	C8-N7	5.21	1.34	1.30
25	BB	2496	C	N1-C2	5.21	1.45	1.40
25	BB	2508	G	C5-C4	-5.21	1.34	1.38
25	BB	2597	G	C2'-O2'	5.21	1.48	1.41
25	BB	2604	U	O3'-P	-5.21	1.54	1.61
25	BB	2689	U	C5'-C4'	5.21	1.57	1.51
34	BK	80	ARG	CZ-NH1	-5.21	1.26	1.33
53	B4	47	PHE	CE2-CZ	5.21	1.47	1.37
1	AA	31	A	C2'-C1'	5.21	1.59	1.53
1	AA	44	A	N7-C5	5.21	1.42	1.39
3	A1	28	A	C6-N1	-5.21	1.31	1.35
25	BB	19	A	C5-C6	5.21	1.45	1.41
25	BB	63	A	C2-N3	-5.21	1.28	1.33
25	BB	333	G	C5-C6	5.21	1.47	1.42
25	BB	453	A	C2-N3	5.21	1.38	1.33
25	BB	2125	G	C5-C6	5.21	1.47	1.42
25	BB	2169	A	C4'-C3'	5.21	1.58	1.53
25	BB	2892	G	N9-C8	-5.21	1.34	1.37
28	BE	21	ARG	CZ-NH2	-5.21	1.26	1.33
3	A1	19	A	C5-C4	-5.21	1.35	1.38
3	A1	1054	C	N3-C4	-5.21	1.30	1.33
3	A1	1530	G	O3'-P	-5.21	1.54	1.61
25	BB	163	C	O4'-C1'	5.21	1.48	1.41
25	BB	958	U	O4'-C1'	5.21	1.48	1.41
25	BB	1002	G	C3'-O3'	-5.21	1.34	1.42
25	BB	1352	U	N3-C4	5.21	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1363	C	C4-C5	-5.21	1.38	1.43
25	BB	1483	G	N1-C2	-5.21	1.33	1.37
25	BB	1864	U	C2-N3	-5.21	1.34	1.37
25	BB	2024	G	N7-C5	5.21	1.42	1.39
25	BB	2329	U	C2-O2	5.21	1.27	1.22
25	BB	2547	A	N9-C8	5.21	1.42	1.37
3	A1	882	C	O3'-P	5.21	1.67	1.61
25	BB	359	G	C6-N1	5.21	1.43	1.39
25	BB	816	C	C5-C6	5.21	1.38	1.34
25	BB	939	G	C6-N1	-5.21	1.35	1.39
25	BB	2265	U	N1-C2	5.21	1.43	1.38
25	BB	2702	G	C5-C4	-5.21	1.34	1.38
1	AA	35	A	N3-C4	5.21	1.38	1.34
1	AA	66	A	N3-C4	5.21	1.38	1.34
3	A1	1216	A	C5-C6	5.21	1.45	1.41
25	BB	708	G	P-O5'	-5.21	1.54	1.59
25	BB	745	G	N9-C8	5.21	1.41	1.37
25	BB	1634	A	P-O5'	5.21	1.65	1.59
25	BB	1868	C	C4-N4	-5.21	1.29	1.33
25	BB	1925	C	C4-N4	-5.21	1.29	1.33
25	BB	2043	C	C4'-O4'	-5.21	1.38	1.45
25	BB	2332	C	C4-C5	5.21	1.47	1.43
25	BB	2771	C	C5'-C4'	5.21	1.57	1.51
25	BB	2866	U	C5'-C4'	5.21	1.57	1.51
28	BE	42	SER	CA-CB	5.21	1.60	1.52
3	A1	130	A	N7-C5	5.21	1.42	1.39
3	A1	352	C	C2-O2	-5.21	1.19	1.24
3	A1	824	G	O3'-P	5.21	1.67	1.61
3	A1	932	C	C2'-O2'	5.21	1.48	1.41
3	A1	1275	A	C6-N6	-5.21	1.29	1.33
3	A1	1290	G	C5-C6	5.21	1.47	1.42
3	A1	1331	G	C5-C6	-5.21	1.37	1.42
10	AI	70	ARG	CZ-NH2	-5.21	1.26	1.33
22	AW	23	GLY	N-CA	5.21	1.53	1.46
25	BB	903	C	N1-C6	5.21	1.40	1.37
25	BB	1116	G	N9-C4	5.21	1.42	1.38
25	BB	1235	G	C4'-O4'	-5.21	1.38	1.45
25	BB	1306	C	C4-C5	-5.21	1.38	1.43
25	BB	1335	C	C4-N4	-5.21	1.29	1.33
25	BB	1574	C	C2'-O2'	5.21	1.48	1.41
25	BB	2311	A	N9-C8	5.21	1.42	1.37
25	BB	2438	U	C4'-C3'	5.21	1.58	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2487	G	N1-C2	-5.21	1.33	1.37
25	BB	2526	G	C3'-C2'	5.21	1.58	1.52
25	BB	2699	C	N1-C2	5.21	1.45	1.40
3	A1	225	C	C5-C6	5.21	1.38	1.34
3	A1	531	U	O3'-P	-5.21	1.54	1.61
3	A1	550	G	N3-C4	5.21	1.39	1.35
24	BA	42	C	N1-C6	5.21	1.40	1.37
25	BB	707	G	N3-C4	5.21	1.39	1.35
25	BB	819	A	C6-N6	-5.21	1.29	1.33
25	BB	1419	A	N3-C4	5.21	1.38	1.34
25	BB	1904	G	C2-N2	-5.21	1.29	1.34
25	BB	2200	C	C2-O2	-5.21	1.19	1.24
25	BB	2589	A	C6-N6	-5.21	1.29	1.33
30	BG	80	PHE	CG-CD1	5.21	1.46	1.38
3	A1	555	U	C4'-C3'	5.20	1.58	1.53
25	BB	182	A	N1-C2	-5.20	1.29	1.34
25	BB	847	U	C2-O2	5.20	1.27	1.22
25	BB	1566	A	C6-N1	-5.20	1.31	1.35
25	BB	1746	A	C5-C4	5.20	1.42	1.38
25	BB	1835	G	C4'-O4'	-5.20	1.38	1.45
25	BB	2477	U	N1-C6	5.20	1.42	1.38
3	A1	317	U	C1'-N1	5.20	1.56	1.48
3	A1	1339	A	O3'-P	-5.20	1.54	1.61
3	A1	1428	A	C6-N1	-5.20	1.31	1.35
25	BB	766	U	P-O5'	-5.20	1.54	1.59
25	BB	1068	G	C6-N1	-5.20	1.35	1.39
3	A1	16	A	C6-N1	5.20	1.39	1.35
3	A1	76	G	C6-N1	-5.20	1.35	1.39
3	A1	138	G	C2-N2	-5.20	1.29	1.34
3	A1	394	G	O3'-P	-5.20	1.54	1.61
3	A1	510	A	O3'-P	-5.20	1.54	1.61
3	A1	658	C	C5-C6	5.20	1.38	1.34
3	A1	731	G	C2-N2	-5.20	1.29	1.34
3	A1	1455	G	N9-C4	-5.20	1.33	1.38
24	BA	108	A	C5-C6	5.20	1.45	1.41
25	BB	619	G	C5'-C4'	5.20	1.57	1.51
25	BB	641	U	C5'-C4'	5.20	1.57	1.51
25	BB	995	C	N1-C2	5.20	1.45	1.40
25	BB	2369	A	C4'-O4'	-5.20	1.38	1.45
25	BB	2675	A	C2'-O2'	5.20	1.48	1.41
3	A1	497	G	O4'-C1'	5.20	1.48	1.41
3	A1	971	G	C5'-C4'	5.20	1.57	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1019	A	C2'-O2'	-5.20	1.34	1.41
3	A1	1243	C	C2-O2	-5.20	1.19	1.24
25	BB	528	A	N3-C4	5.20	1.38	1.34
25	BB	547	A	N1-C2	-5.20	1.29	1.34
25	BB	681	G	C5'-C4'	5.20	1.57	1.51
25	BB	924	G	C5'-C4'	5.20	1.57	1.51
25	BB	1355	G	C8-N7	5.20	1.34	1.30
25	BB	1412	U	C3'-C2'	5.20	1.58	1.52
25	BB	1749	A	C8-N7	5.20	1.35	1.31
25	BB	1862	G	P-O5'	-5.20	1.54	1.59
25	BB	2445	G	C6-N1	5.20	1.43	1.39
25	BB	42	A	O3'-P	-5.20	1.54	1.61
25	BB	1846	G	N3-C4	5.20	1.39	1.35
25	BB	2596	U	C1'-N1	5.20	1.56	1.48
3	A1	345	C	N1-C2	-5.20	1.34	1.40
3	A1	402	G	C3'-O3'	5.20	1.49	1.42
24	BA	4	C	C4-N4	-5.20	1.29	1.33
25	BB	166	U	C5'-C4'	5.20	1.57	1.51
25	BB	469	G	N9-C8	-5.20	1.34	1.37
25	BB	545	U	C4-O4	5.20	1.27	1.23
25	BB	1059	G	N3-C4	5.20	1.39	1.35
25	BB	1879	C	C3'-C2'	5.20	1.58	1.52
25	BB	1908	C	C4'-O4'	-5.20	1.38	1.45
25	BB	2410	G	O3'-P	-5.20	1.54	1.61
3	A1	153	C	C4-N4	-5.19	1.29	1.33
3	A1	337	G	C2'-C1'	5.19	1.59	1.53
3	A1	731	G	C3'-O3'	5.19	1.49	1.42
3	A1	763	G	C2-N3	5.19	1.36	1.32
3	A1	773	G	N1-C2	-5.19	1.33	1.37
3	A1	1213	A	C8-N7	5.19	1.35	1.31
25	BB	546	U	C2-N3	-5.19	1.34	1.37
25	BB	924	G	C5-C4	-5.19	1.34	1.38
25	BB	1320	C	C4-N4	-5.19	1.29	1.33
25	BB	2307	G	C5-C4	5.19	1.42	1.38
25	BB	2602	A	C6-N6	-5.19	1.29	1.33
3	A1	43	C	O3'-P	-5.19	1.54	1.61
3	A1	357	G	O4'-C1'	-5.19	1.34	1.41
3	A1	519	C	O3'-P	-5.19	1.54	1.61
3	A1	821	G	C2-N2	-5.19	1.29	1.34
3	A1	869	G	C2-N2	-5.19	1.29	1.34
3	A1	975	A	C6-N6	-5.19	1.29	1.33
3	A1	1450	U	P-O5'	5.19	1.65	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	754	U	C5-C6	5.19	1.38	1.34
25	BB	880	G	P-O5'	-5.19	1.54	1.59
25	BB	901	C	C5-C6	5.19	1.38	1.34
25	BB	953	G	C2-N2	-5.19	1.29	1.34
25	BB	1115	G	N9-C4	5.19	1.42	1.38
25	BB	1391	U	C2-O2	5.19	1.27	1.22
25	BB	1592	C	C4-N4	-5.19	1.29	1.33
25	BB	1787	A	C6-N1	-5.19	1.31	1.35
25	BB	1887	C	C2-N3	-5.19	1.31	1.35
25	BB	2285	C	O3'-P	-5.19	1.54	1.61
25	BB	2719	G	N7-C5	5.19	1.42	1.39
25	BB	2813	A	N9-C4	5.19	1.41	1.37
37	BN	216	ARG	CZ-NH1	-5.19	1.26	1.33
51	B2	171	ALA	CA-CB	5.19	1.63	1.52
3	A1	709	U	N1-C6	5.19	1.42	1.38
3	A1	992	U	C2-N3	5.19	1.41	1.37
3	A1	1514	G	C8-N7	-5.19	1.27	1.30
25	BB	212	G	C6-N1	-5.19	1.35	1.39
25	BB	496	G	C6-N1	5.19	1.43	1.39
25	BB	547	A	C6-N1	-5.19	1.31	1.35
25	BB	594	U	C2-O2	5.19	1.27	1.22
25	BB	770	G	C2-N2	-5.19	1.29	1.34
25	BB	1042	G	O3'-P	-5.19	1.54	1.61
25	BB	2080	A	N1-C2	-5.19	1.29	1.34
25	BB	2859	G	P-O5'	5.19	1.65	1.59
25	BB	2897	U	N1-C2	5.19	1.43	1.38
1	AA	21	A	C8-N7	-5.19	1.27	1.31
3	A1	415	A	C5-C6	5.19	1.45	1.41
3	A1	1471	U	P-O5'	-5.19	1.54	1.59
18	AS	67	ARG	CD-NE	5.19	1.55	1.46
25	BB	2058	A	N9-C4	-5.19	1.34	1.37
1	AE	52	U	O3'-P	-5.19	1.54	1.61
3	A1	59	A	P-OP1	-5.19	1.40	1.49
3	A1	305	G	N3-C4	5.19	1.39	1.35
3	A1	474	G	N9-C8	5.19	1.41	1.37
3	A1	705	G	N7-C5	5.19	1.42	1.39
3	A1	754	C	C4-N4	-5.19	1.29	1.33
3	A1	757	U	N1-C6	5.19	1.42	1.38
3	A1	1052	U	C4-O4	5.19	1.27	1.23
3	A1	1522	U	O3'-P	-5.19	1.54	1.61
6	AD	30	ARG	CZ-NH1	-5.19	1.26	1.33
25	BB	517	C	C4-N4	-5.19	1.29	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	537	G	N7-C5	5.19	1.42	1.39
25	BB	821	A	C4'-O4'	-5.19	1.38	1.45
25	BB	1367	A	N7-C5	5.19	1.42	1.39
25	BB	1504	A	C8-N7	5.19	1.35	1.31
25	BB	1602	U	C2'-C1'	5.19	1.59	1.53
25	BB	2300	C	N3-C4	-5.19	1.30	1.33
25	BB	2350	C	C2'-O2'	5.19	1.48	1.41
25	BB	2625	G	C5'-C4'	5.19	1.57	1.51
25	BB	2688	G	C5'-C4'	5.19	1.57	1.51
48	BY	83	ARG	CZ-NH1	-5.19	1.26	1.33
3	A1	91	U	N3-C4	-5.19	1.33	1.38
3	A1	802	A	C4'-O4'	-5.19	1.38	1.45
3	A1	1023	U	N1-C2	5.19	1.43	1.38
25	BB	2523	G	N9-C8	5.19	1.41	1.37
3	A1	440	C	C3'-C2'	5.18	1.58	1.52
3	A1	522	C	C2-N3	5.18	1.39	1.35
3	A1	691	G	N7-C5	-5.18	1.36	1.39
3	A1	706	A	N1-C2	-5.18	1.29	1.34
3	A1	873	A	N9-C4	5.18	1.41	1.37
3	A1	1241	G	C6-N1	-5.18	1.35	1.39
24	BA	76	G	C2'-C1'	5.18	1.59	1.53
25	BB	226	A	C5-C4	5.18	1.42	1.38
25	BB	361	G	C6-N1	-5.18	1.35	1.39
25	BB	373	U	C2-N3	5.18	1.41	1.37
25	BB	632	A	O4'-C1'	5.18	1.48	1.41
25	BB	708	G	N9-C8	5.18	1.41	1.37
25	BB	820	A	N9-C4	5.18	1.41	1.37
25	BB	1218	G	C2'-O2'	5.18	1.48	1.41
25	BB	1539	U	P-O5'	-5.18	1.54	1.59
25	BB	1785	A	N9-C8	5.18	1.41	1.37
25	BB	2703	C	C4-N4	-5.18	1.29	1.33
49	BZ	83	VAL	N-CA	5.18	1.56	1.46
1	AA	65	G	N9-C8	-5.18	1.34	1.37
3	A1	281	G	C2'-C1'	5.18	1.59	1.53
3	A1	465	A	N9-C8	-5.18	1.33	1.37
3	A1	475	C	N3-C4	-5.18	1.30	1.33
3	A1	506	G	C5-C4	-5.18	1.34	1.38
3	A1	736	C	C2'-C1'	5.18	1.59	1.53
3	A1	1470	U	P-O5'	-5.18	1.54	1.59
3	A1	1475	G	C6-O6	5.18	1.28	1.24
6	AD	35	ARG	CZ-NH1	-5.18	1.26	1.33
25	BB	159	G	O3'-P	-5.18	1.54	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	215	G	N3-C4	5.18	1.39	1.35
25	BB	233	A	N9-C4	5.18	1.41	1.37
25	BB	961	C	C3'-O3'	-5.18	1.34	1.42
25	BB	1002	G	C2-N2	-5.18	1.29	1.34
25	BB	1040	A	N7-C5	5.18	1.42	1.39
25	BB	1682	G	N3-C4	5.18	1.39	1.35
25	BB	2405	G	O3'-P	-5.18	1.54	1.61
25	BB	2426	A	C6-N6	-5.18	1.29	1.33
25	BB	2783	U	O5'-C5'	-5.18	1.34	1.42
3	A1	1443	C	C3'-O3'	5.18	1.49	1.42
25	BB	287	G	P-O5'	-5.18	1.54	1.59
25	BB	2534	A	C5-C4	-5.18	1.35	1.38
25	BB	2769	U	C2'-O2'	-5.18	1.34	1.41
25	BB	2868	A	O3'-P	-5.18	1.54	1.61
1	AA	9	A	C5'-C4'	-5.18	1.45	1.51
3	A1	67	C	N1-C2	5.18	1.45	1.40
3	A1	175	C	C2-N3	-5.18	1.31	1.35
3	A1	465	A	C5-C4	-5.18	1.35	1.38
3	A1	612	C	C3'-C2'	5.18	1.58	1.52
3	A1	940	C	C5'-C4'	5.18	1.57	1.51
3	A1	943	U	C2-N3	-5.18	1.34	1.37
25	BB	937	C	C4'-O4'	-5.18	1.38	1.45
25	BB	966	G	C6-N1	-5.18	1.35	1.39
25	BB	982	C	C4'-O4'	-5.18	1.38	1.45
25	BB	1675	C	C4-N4	-5.18	1.29	1.33
25	BB	1781	U	C4-O4	-5.18	1.19	1.23
25	BB	2012	G	N9-C8	5.18	1.41	1.37
33	BJ	2	ARG	CZ-NH1	-5.18	1.26	1.33
37	BN	225	ASN	N-CA	5.18	1.56	1.46
3	A1	10	A	C5'-C4'	5.18	1.57	1.51
3	A1	1306	A	C3'-C2'	5.18	1.58	1.52
3	A1	1516	G	N9-C4	5.18	1.42	1.38
25	BB	228	C	N3-C4	-5.18	1.30	1.33
25	BB	579	G	C1'-N9	5.18	1.56	1.48
25	BB	930	G	C5-C6	5.18	1.47	1.42
1	AE	49	C	N1-C6	5.18	1.40	1.37
3	A1	148	G	C1'-N9	5.18	1.56	1.48
3	A1	1041	G	N9-C8	5.18	1.41	1.37
3	A1	1449	C	C2'-C1'	-5.18	1.47	1.53
3	A1	1508	A	C6-N6	5.18	1.38	1.33
25	BB	415	A	P-O5'	5.18	1.65	1.59
25	BB	1005	C	C4'-C3'	5.18	1.58	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1520	U	N1-C6	5.18	1.42	1.38
25	BB	1818	U	N3-C4	-5.18	1.33	1.38
25	BB	2380	C	C5-C6	5.18	1.38	1.34
25	BB	2476	A	C6-N6	-5.18	1.29	1.33
25	BB	2805	C	C5'-C4'	-5.18	1.45	1.51
3	A1	33	A	C4'-C3'	-5.17	1.47	1.52
3	A1	95	C	O3'-P	-5.17	1.54	1.61
3	A1	911	U	N1-C6	5.17	1.42	1.38
3	A1	959	A	C5'-C4'	5.17	1.57	1.51
3	A1	1111	A	N3-C4	5.17	1.38	1.34
3	A1	1233	G	C8-N7	-5.17	1.27	1.30
3	A1	1317	C	C5-C6	-5.17	1.30	1.34
3	A1	1518	A	C6-N6	5.17	1.38	1.33
24	BA	108	A	C6-N1	-5.17	1.31	1.35
25	BB	78	U	C4'-C3'	-5.17	1.47	1.52
25	BB	359	G	C2-N3	-5.17	1.28	1.32
25	BB	996	A	N9-C4	-5.17	1.34	1.37
25	BB	1176	U	C2-N3	5.17	1.41	1.37
25	BB	1445	G	N7-C5	5.17	1.42	1.39
25	BB	1474	U	C4'-O4'	-5.17	1.38	1.45
25	BB	1784	A	C5-C6	5.17	1.45	1.41
41	BR	44	ARG	CZ-NH1	-5.17	1.26	1.33
3	A1	347	G	N7-C5	5.17	1.42	1.39
3	A1	676	A	P-O5'	-5.17	1.54	1.59
3	A1	680	C	O4'-C1'	5.17	1.48	1.41
3	A1	706	A	N9-C4	-5.17	1.34	1.37
25	BB	226	A	C2'-C1'	5.17	1.59	1.53
25	BB	1172	C	C4-C5	-5.17	1.38	1.43
25	BB	1521	G	C2-N2	-5.17	1.29	1.34
25	BB	2526	G	N7-C5	5.17	1.42	1.39
3	A1	434	U	C5-C6	-5.17	1.29	1.34
3	A1	457	G	C2-N2	-5.17	1.29	1.34
3	A1	1161	C	C4'-C3'	5.17	1.58	1.53
3	A1	1499	A	C2-N3	-5.17	1.28	1.33
24	BA	106	G	N7-C5	5.17	1.42	1.39
25	BB	501	A	N1-C2	-5.17	1.29	1.34
25	BB	688	U	O4'-C1'	-5.17	1.34	1.41
25	BB	1003	G	C4'-C3'	5.17	1.58	1.53
25	BB	1210	G	N7-C5	5.17	1.42	1.39
25	BB	1228	G	C2-N2	-5.17	1.29	1.34
25	BB	1315	C	C2-N3	-5.17	1.31	1.35
25	BB	2068	U	N1-C2	5.17	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2616	C	P-O5'	5.17	1.65	1.59
33	BJ	49	ARG	CZ-NH2	-5.17	1.26	1.33
3	A1	588	G	C6-N1	-5.17	1.35	1.39
24	BA	107	G	C2-N2	-5.17	1.29	1.34
25	BB	1682	G	C5-C4	5.17	1.42	1.38
25	BB	2660	A	C6-N6	-5.17	1.29	1.33
3	A1	139	A	N7-C5	5.17	1.42	1.39
3	A1	1135	U	C5-C6	5.17	1.38	1.34
3	A1	1393	U	C4'-O4'	-5.17	1.38	1.45
25	BB	1055	G	C5'-C4'	5.17	1.57	1.51
25	BB	1246	A	N1-C2	-5.17	1.29	1.34
25	BB	1651	G	N1-C2	-5.17	1.33	1.37
25	BB	1702	G	C8-N7	-5.17	1.27	1.30
25	BB	1885	A	C2-N3	5.17	1.38	1.33
25	BB	2375	G	N3-C4	5.17	1.39	1.35
25	BB	2438	U	C2'-C1'	-5.17	1.47	1.53
25	BB	2477	U	O3'-P	-5.17	1.54	1.61
25	BB	2544	G	C2-N2	-5.17	1.29	1.34
25	BB	2763	G	N9-C4	5.17	1.42	1.38
25	BB	2826	A	N9-C4	5.17	1.41	1.37
45	BV	19	ARG	CZ-NH1	-5.17	1.26	1.33
3	A1	660	C	C3'-C2'	-5.17	1.47	1.52
3	A1	1062	U	N1-C6	5.17	1.42	1.38
3	A1	1288	A	N9-C8	5.17	1.41	1.37
3	A1	1529	G	C2-N2	-5.17	1.29	1.34
17	AR	102	TYR	CB-CG	-5.17	1.43	1.51
25	BB	173	A	N3-C4	5.17	1.38	1.34
25	BB	699	A	C3'-C2'	5.17	1.58	1.52
25	BB	845	A	N3-C4	5.17	1.38	1.34
25	BB	2214	C	C5'-C4'	5.17	1.57	1.51
25	BB	2516	A	C6-N6	-5.17	1.29	1.33
25	BB	2683	C	C3'-C2'	5.17	1.58	1.52
25	BB	2771	C	P-O5'	5.17	1.65	1.59
28	BE	22	GLY	CA-C	5.17	1.60	1.51
1	AE	28	C	C2-N3	-5.17	1.31	1.35
25	BB	511	U	C2-O2	5.17	1.26	1.22
25	BB	938	G	C5'-C4'	5.17	1.57	1.51
25	BB	1036	G	N3-C4	5.17	1.39	1.35
25	BB	1087	G	O3'-P	-5.17	1.54	1.61
49	BZ	168	PHE	CG-CD2	5.17	1.46	1.38
3	A1	71	A	N9-C8	5.16	1.41	1.37
3	A1	81	A	C8-N7	5.16	1.35	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	418	C	O3'-P	-5.16	1.54	1.61
3	A1	944	G	C5'-C4'	5.16	1.57	1.51
3	A1	967	C	C5-C6	-5.16	1.30	1.34
3	A1	1188	A	N1-C2	-5.16	1.29	1.34
25	BB	135	U	N1-C6	-5.16	1.33	1.38
25	BB	418	C	N3-C4	-5.16	1.30	1.33
25	BB	919	U	N1-C2	5.16	1.43	1.38
25	BB	1124	G	P-O5'	5.16	1.65	1.59
25	BB	1346	G	C4'-O4'	-5.16	1.38	1.45
25	BB	1370	C	C4-N4	-5.16	1.29	1.33
25	BB	1433	A	C2-N3	5.16	1.38	1.33
25	BB	2665	A	C2'-C1'	-5.16	1.47	1.53
3	A1	211	G	C2'-O2'	5.16	1.48	1.41
25	BB	1	G	C5-C6	5.16	1.47	1.42
25	BB	94	A	C8-N7	-5.16	1.27	1.31
25	BB	209	C	C3'-O3'	-5.16	1.34	1.42
25	BB	1225	G	N7-C5	5.16	1.42	1.39
25	BB	1988	G	C6-N1	-5.16	1.35	1.39
3	A1	378	G	C8-N7	5.16	1.34	1.30
3	A1	422	C	C2-N3	5.16	1.39	1.35
3	A1	493	A	N1-C2	-5.16	1.29	1.34
3	A1	568	G	N3-C4	5.16	1.39	1.35
3	A1	852	G	C6-N1	-5.16	1.35	1.39
25	BB	24	G	P-O5'	5.16	1.65	1.59
25	BB	520	G	C8-N7	5.16	1.34	1.30
25	BB	537	G	C4'-O4'	-5.16	1.38	1.45
25	BB	728	G	N7-C5	-5.16	1.36	1.39
25	BB	2207	C	O5'-C5'	-5.16	1.34	1.42
25	BB	2409	G	C2-N2	-5.16	1.29	1.34
25	BB	2757	A	C2'-C1'	5.16	1.59	1.53
50	B1	183	PHE	CE1-CZ	5.16	1.47	1.37
1	AA	48	C	P-O5'	5.16	1.65	1.59
3	A1	242	G	N9-C8	-5.16	1.34	1.37
3	A1	893	C	C4-N4	-5.16	1.29	1.33
3	A1	1035	A	C4'-C3'	5.16	1.58	1.53
3	A1	1059	C	C4-N4	-5.16	1.29	1.33
3	A1	1097	C	C4-N4	-5.16	1.29	1.33
3	A1	1156	G	N9-C4	-5.16	1.33	1.38
3	A1	1276	G	C3'-C2'	5.16	1.58	1.52
25	BB	28	A	C2'-C1'	-5.16	1.47	1.53
25	BB	286	U	C4'-C3'	-5.16	1.47	1.52
25	BB	448	U	N3-C4	-5.16	1.33	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	451	U	C5'-C4'	5.16	1.57	1.51
25	BB	1243	C	C4-N4	-5.16	1.29	1.33
25	BB	1342	A	C5-C4	-5.16	1.35	1.38
3	A1	989	U	C4'-O4'	-5.16	1.38	1.45
3	A1	1086	U	C4'-O4'	-5.16	1.38	1.45
25	BB	409	G	C8-N7	5.16	1.34	1.30
25	BB	513	A	P-O5'	5.16	1.65	1.59
25	BB	880	G	O5'-C5'	-5.16	1.34	1.42
25	BB	909	A	C6-N1	-5.16	1.31	1.35
25	BB	1060	U	N1-C6	-5.16	1.33	1.38
25	BB	1086	A	P-O5'	-5.16	1.54	1.59
25	BB	1743	G	N9-C8	5.16	1.41	1.37
25	BB	2418	A	C6-N6	-5.16	1.29	1.33
3	A1	331	G	C4'-C3'	-5.16	1.47	1.52
3	A1	551	U	C4-O4	-5.16	1.19	1.23
3	A1	994	A	C3'-C2'	5.16	1.58	1.52
3	A1	1450	U	C5'-C4'	5.16	1.57	1.51
6	AD	53	ARG	CZ-NH1	-5.16	1.26	1.33
14	AN	17	ARG	CZ-NH1	-5.16	1.26	1.33
15	AO	125	ARG	CZ-NH2	-5.16	1.26	1.33
25	BB	138	U	C4-O4	-5.16	1.19	1.23
25	BB	508	A	C6-N6	-5.16	1.29	1.33
25	BB	586	A	C5-C6	5.16	1.45	1.41
25	BB	1229	C	N3-C4	-5.16	1.30	1.33
25	BB	1410	G	C5-C4	-5.16	1.34	1.38
25	BB	1813	G	C4'-O4'	-5.16	1.38	1.45
25	BB	2449	U	N1-C2	5.16	1.43	1.38
25	BB	2842	G	O3'-P	-5.16	1.54	1.61
37	BN	11	GLY	CA-C	5.16	1.60	1.51
3	A1	1022	A	O4'-C1'	-5.15	1.34	1.41
25	BB	535	G	C8-N7	-5.15	1.27	1.30
25	BB	1231	U	C3'-C2'	5.15	1.58	1.52
25	BB	1343	G	N7-C5	5.15	1.42	1.39
25	BB	1767	G	N9-C4	5.15	1.42	1.38
25	BB	2009	A	C4'-O4'	-5.15	1.38	1.45
35	BL	105	VAL	CA-CB	5.15	1.65	1.54
1	AP	46	G	C2-N2	-5.15	1.29	1.34
3	A1	161	A	C4'-C3'	5.15	1.58	1.53
3	A1	688	G	C2-N2	-5.15	1.29	1.34
3	A1	720	C	N1-C2	5.15	1.45	1.40
25	BB	54	G	C4'-O4'	-5.15	1.38	1.45
25	BB	354	A	C1'-N9	5.15	1.56	1.48

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	533	G	C6-N1	-5.15	1.35	1.39
25	BB	725	G	P-O5'	5.15	1.65	1.59
25	BB	1214	A	C6-N1	-5.15	1.31	1.35
25	BB	1302	A	C6-N1	-5.15	1.31	1.35
25	BB	1684	G	C6-N1	-5.15	1.35	1.39
25	BB	1846	G	C3'-C2'	5.15	1.58	1.52
25	BB	2669	G	N1-C2	-5.15	1.33	1.37
3	A1	279	A	C5-C4	-5.15	1.35	1.38
3	A1	1210	C	C3'-C2'	5.15	1.58	1.52
25	BB	847	U	C4-O4	5.15	1.27	1.23
25	BB	1632	A	N9-C4	5.15	1.41	1.37
25	BB	2459	A	C6-N1	-5.15	1.31	1.35
25	BB	2766	A	C6-N6	-5.15	1.29	1.33
3	A1	708	C	C2-N3	-5.15	1.31	1.35
3	A1	1397	C	C4-C5	-5.15	1.38	1.43
25	BB	518	G	N9-C4	-5.15	1.33	1.38
25	BB	793	A	C4'-C3'	5.15	1.58	1.53
25	BB	1122	G	P-O5'	5.15	1.64	1.59
25	BB	2161	C	O3'-P	-5.15	1.54	1.61
25	BB	2720	U	C5'-C4'	-5.15	1.45	1.51
3	A1	178	C	C4-N4	-5.15	1.29	1.33
3	A1	402	G	N9-C8	5.15	1.41	1.37
3	A1	1509	C	N1-C6	-5.15	1.34	1.37
24	BA	56	G	C5-C6	5.15	1.47	1.42
25	BB	31	C	C4'-O4'	-5.15	1.38	1.45
25	BB	310	A	P-O5'	-5.15	1.54	1.59
25	BB	422	A	C2'-O2'	-5.15	1.34	1.41
25	BB	532	A	C4'-C3'	5.15	1.58	1.53
25	BB	554	U	C4'-O4'	-5.15	1.38	1.45
25	BB	889	C	C4'-C3'	-5.15	1.47	1.52
25	BB	1289	C	C4-C5	-5.15	1.38	1.43
25	BB	1576	U	C5-C6	5.15	1.38	1.34
25	BB	1887	C	P-O5'	5.15	1.64	1.59
3	A1	868	C	N3-C4	-5.15	1.30	1.33
3	A1	1487	G	N7-C5	5.15	1.42	1.39
25	BB	593	U	N3-C4	-5.15	1.33	1.38
25	BB	1364	G	C8-N7	5.15	1.34	1.30
25	BB	2569	G	N3-C4	5.15	1.39	1.35
25	BB	2748	A	N3-C4	5.15	1.38	1.34
25	BB	2873	A	C8-N7	-5.15	1.27	1.31
1	AP	48	C	C2-O2	-5.14	1.19	1.24
3	A1	634	C	C5'-C4'	5.14	1.57	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	26	G	C8-N7	-5.14	1.27	1.30
25	BB	217	A	O4'-C1'	5.14	1.48	1.41
25	BB	612	G	C2-N2	-5.14	1.29	1.34
25	BB	777	G	C5'-C4'	5.14	1.57	1.51
25	BB	2379	G	N3-C4	5.14	1.39	1.35
25	BB	2771	C	C4-C5	-5.14	1.38	1.43
25	BB	2876	G	C4'-C3'	-5.14	1.47	1.52
3	A1	31	G	C6-N1	-5.14	1.35	1.39
3	A1	83	C	C5'-C4'	5.14	1.57	1.51
3	A1	344	A	N9-C8	5.14	1.41	1.37
3	A1	389	A	N9-C4	-5.14	1.34	1.37
3	A1	562	U	C5-C6	5.14	1.38	1.34
3	A1	615	G	N1-C2	-5.14	1.33	1.37
3	A1	788	U	C2-N3	-5.14	1.34	1.37
3	A1	1440	U	C5'-C4'	5.14	1.57	1.51
25	BB	704	G	C4'-O4'	-5.14	1.38	1.45
25	BB	805	G	C5'-C4'	-5.14	1.45	1.51
25	BB	966	G	O3'-P	-5.14	1.54	1.61
25	BB	1368	G	C5'-C4'	5.14	1.57	1.51
25	BB	1881	C	N3-C4	-5.14	1.30	1.33
25	BB	1982	U	C2'-O2'	-5.14	1.34	1.41
25	BB	2082	A	C3'-C2'	5.14	1.58	1.52
25	BB	2484	G	C2-N2	-5.14	1.29	1.34
25	BB	2548	U	C5-C6	5.14	1.38	1.34
25	BB	2642	G	N9-C8	-5.14	1.34	1.37
25	BB	2795	C	C4-N4	-5.14	1.29	1.33
3	A1	517	G	N3-C4	-5.14	1.31	1.35
25	BB	14	A	N9-C8	-5.14	1.33	1.37
25	BB	227	A	C3'-O3'	5.14	1.49	1.42
25	BB	314	C	N3-C4	-5.14	1.30	1.33
25	BB	361	G	C5'-C4'	5.14	1.57	1.51
25	BB	873	C	N1-C2	5.14	1.45	1.40
25	BB	1830	C	O3'-P	-5.14	1.54	1.61
25	BB	2679	A	N9-C4	5.14	1.41	1.37
3	A1	1233	G	N3-C4	5.14	1.39	1.35
3	A1	1253	G	C5-C4	5.14	1.42	1.38
24	BA	117	G	C1'-N9	5.14	1.56	1.48
25	BB	46	G	C5-C4	-5.14	1.34	1.38
25	BB	608	A	C6-N1	-5.14	1.31	1.35
25	BB	865	C	C2-N3	5.14	1.39	1.35
25	BB	1468	U	N3-C4	-5.14	1.33	1.38
25	BB	2092	U	N1-C6	5.14	1.42	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	120	A	C2'-O2'	5.14	1.48	1.41
3	A1	495	A	C8-N7	-5.14	1.27	1.31
3	A1	1457	G	C8-N7	5.14	1.34	1.30
25	BB	1477	A	C3'-C2'	5.14	1.58	1.52
25	BB	2375	G	N9-C8	-5.14	1.34	1.37
25	BB	2836	U	C5-C6	5.14	1.38	1.34
52	B3	26	LYS	CD-CE	5.14	1.64	1.51
3	A1	46	G	N9-C4	-5.14	1.33	1.38
3	A1	202	G	C2-N2	-5.14	1.29	1.34
3	A1	207	C	O3'-P	-5.14	1.54	1.61
3	A1	623	C	N1-C6	5.14	1.40	1.37
3	A1	664	G	N1-C2	-5.14	1.33	1.37
3	A1	770	C	C4'-C3'	5.14	1.58	1.53
3	A1	942	G	O4'-C1'	5.14	1.48	1.41
3	A1	945	G	N7-C5	5.14	1.42	1.39
3	A1	1035	A	C2'-C1'	5.14	1.59	1.53
3	A1	1439	G	C8-N7	5.14	1.34	1.30
25	BB	233	A	C2'-C1'	5.14	1.58	1.53
25	BB	576	U	C3'-C2'	5.14	1.58	1.52
25	BB	685	A	C2'-O2'	5.14	1.48	1.41
25	BB	1213	A	O3'-P	-5.14	1.54	1.61
25	BB	1403	A	C6-N6	-5.14	1.29	1.33
25	BB	1502	A	N9-C4	5.14	1.41	1.37
25	BB	2031	A	N7-C5	5.14	1.42	1.39
25	BB	2311	A	C6-N1	-5.14	1.31	1.35
25	BB	2335	A	C4'-O4'	-5.14	1.38	1.45
25	BB	2399	G	N9-C4	-5.14	1.33	1.38
25	BB	2516	A	C5-C6	5.14	1.45	1.41
25	BB	2516	A	N3-C4	5.14	1.38	1.34
25	BB	2672	U	C1'-N1	5.14	1.56	1.48
3	A1	455	G	C5'-C4'	5.13	1.57	1.51
3	A1	955	U	N1-C2	5.13	1.43	1.38
3	A1	1039	G	N3-C4	5.13	1.39	1.35
25	BB	578	G	C2-N3	5.13	1.36	1.32
25	BB	682	G	C2-N2	-5.13	1.29	1.34
25	BB	1292	G	N9-C4	-5.13	1.33	1.38
25	BB	2066	C	N3-C4	5.13	1.37	1.33
25	BB	2561	U	P-O5'	5.13	1.64	1.59
55	B6	53	TYR	CE2-CZ	5.13	1.45	1.38
2	AM	6	U	P-O5'	5.13	1.64	1.59
3	A1	81	A	C6-N6	-5.13	1.29	1.33
3	A1	624	C	C3'-O3'	5.13	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1073	U	C4-C5	5.13	1.48	1.43
24	BA	90	C	N1-C2	5.13	1.45	1.40
1	AA	36	A	C6-N1	5.13	1.39	1.35
1	AP	27	C	C2'-O2'	-5.13	1.34	1.41
1	AE	76	A	N1-C2	-5.13	1.29	1.34
3	A1	38	G	P-O5'	-5.13	1.54	1.59
3	A1	152	A	C3'-C2'	-5.13	1.47	1.52
3	A1	204	G	C4'-O4'	-5.13	1.38	1.45
3	A1	670	G	C5'-C4'	5.13	1.57	1.51
3	A1	1026	G	N1-C2	-5.13	1.33	1.37
3	A1	1184	G	C4'-O4'	-5.13	1.38	1.45
3	A1	1209	C	C4-C5	-5.13	1.38	1.43
24	BA	111	U	C2'-C1'	5.13	1.58	1.53
25	BB	682	G	C6-N1	-5.13	1.35	1.39
25	BB	717	C	C5'-C4'	5.13	1.57	1.51
25	BB	783	A	C3'-C2'	5.13	1.58	1.52
25	BB	1251	C	C4-N4	-5.13	1.29	1.33
25	BB	1535	A	C8-N7	5.13	1.35	1.31
25	BB	1722	A	P-OP2	5.13	1.57	1.49
25	BB	1913	A	C5'-C4'	5.13	1.57	1.51
25	BB	2168	G	C3'-C2'	5.13	1.58	1.52
25	BB	2396	G	C6-O6	-5.13	1.19	1.24
49	BZ	20	TYR	CD1-CE1	5.13	1.47	1.39
3	A1	507	C	C5'-C4'	5.13	1.57	1.51
3	A1	1106	G	C2-N2	-5.13	1.29	1.34
3	A1	1257	A	C5'-C4'	5.13	1.57	1.51
25	BB	683	U	N1-C2	5.13	1.43	1.38
25	BB	1393	A	C8-N7	-5.13	1.27	1.31
25	BB	1656	C	C5-C6	5.13	1.38	1.34
25	BB	2019	A	C5'-C4'	5.13	1.57	1.51
25	BB	2112	G	C5-C4	-5.13	1.34	1.38
3	A1	814	A	C6-N6	-5.13	1.29	1.33
3	A1	1214	C	C4-N4	-5.13	1.29	1.33
24	BA	32	U	N1-C6	5.13	1.42	1.38
25	BB	138	U	C3'-O3'	5.13	1.49	1.42
25	BB	310	A	N1-C2	-5.13	1.29	1.34
25	BB	332	A	C5-C6	5.13	1.45	1.41
25	BB	532	A	N9-C4	5.13	1.41	1.37
25	BB	768	G	C4'-C3'	5.13	1.58	1.53
25	BB	884	U	C4-C5	5.13	1.48	1.43
25	BB	1301	A	C2-N3	5.13	1.38	1.33
25	BB	1606	C	C2-N3	5.13	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2189	U	C2'-O2'	5.13	1.48	1.41
25	BB	2641	G	C2-N2	-5.13	1.29	1.34
1	AA	25	C	O3'-P	-5.13	1.54	1.61
3	A1	29	U	N3-C4	5.13	1.43	1.38
3	A1	33	A	C3'-C2'	5.13	1.58	1.52
3	A1	541	G	C2'-O2'	5.13	1.48	1.41
25	BB	751	A	C5-C6	5.13	1.45	1.41
25	BB	984	A	C5'-C4'	5.13	1.57	1.51
25	BB	1664	A	C2'-O2'	5.13	1.48	1.41
25	BB	1767	G	C8-N7	-5.13	1.27	1.30
25	BB	1996	C	O4'-C1'	5.13	1.48	1.41
25	BB	2237	G	N3-C4	5.13	1.39	1.35
25	BB	2870	C	C4'-O4'	-5.13	1.38	1.45
48	BY	44	GLY	CA-C	5.13	1.60	1.51
3	A1	131	A	P-O5'	5.12	1.64	1.59
3	A1	167	A	O3'-P	-5.12	1.55	1.61
3	A1	364	A	N3-C4	-5.12	1.31	1.34
3	A1	456	A	C6-N1	-5.12	1.31	1.35
3	A1	810	C	N3-C4	-5.12	1.30	1.33
3	A1	925	G	P-O5'	5.12	1.64	1.59
3	A1	985	C	O3'-P	-5.12	1.54	1.61
25	BB	619	G	N1-C2	-5.12	1.33	1.37
25	BB	2442	C	O4'-C1'	5.12	1.48	1.41
25	BB	2563	U	C3'-C2'	5.12	1.58	1.52
1	AE	58	A	C2'-O2'	5.12	1.48	1.41
3	A1	42	G	C4'-O4'	-5.12	1.38	1.45
3	A1	119	A	C6-N6	5.12	1.38	1.33
3	A1	358	U	C1'-N1	5.12	1.56	1.48
3	A1	526	C	C2-N3	5.12	1.39	1.35
3	A1	575	G	N3-C4	5.12	1.39	1.35
3	A1	698	G	C2-N2	-5.12	1.29	1.34
3	A1	809	G	N3-C4	-5.12	1.31	1.35
3	A1	1377	A	C5-C6	5.12	1.45	1.41
25	BB	185	G	C4'-O4'	-5.12	1.38	1.45
25	BB	1088	A	N1-C2	-5.12	1.29	1.34
25	BB	1106	G	P-O5'	-5.12	1.54	1.59
25	BB	1192	G	C8-N7	-5.12	1.27	1.30
25	BB	1523	U	C4-C5	-5.12	1.39	1.43
25	BB	2011	U	C4'-C3'	5.12	1.58	1.53
25	BB	2775	G	O4'-C1'	5.12	1.48	1.41
49	BZ	6	GLU	CB-CG	5.12	1.61	1.52
1	AA	7	U	N1-C2	5.12	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	110	C	N3-C4	-5.12	1.30	1.33
3	A1	351	G	C2-N2	-5.12	1.29	1.34
3	A1	684	U	C4'-O4'	-5.12	1.38	1.45
3	A1	853	C	N3-C4	-5.12	1.30	1.33
3	A1	881	G	N1-C2	5.12	1.41	1.37
3	A1	944	G	N7-C5	5.12	1.42	1.39
3	A1	1261	A	C5'-C4'	5.12	1.57	1.51
3	A1	1367	C	C2'-C1'	5.12	1.58	1.53
3	A1	1386	G	C2-N2	-5.12	1.29	1.34
24	BA	20	G	C5'-C4'	5.12	1.57	1.51
25	BB	436	C	C4-N4	-5.12	1.29	1.33
25	BB	1513	U	C5'-C4'	5.12	1.57	1.51
25	BB	1733	G	C6-N1	-5.12	1.35	1.39
25	BB	1752	C	O3'-P	-5.12	1.55	1.61
25	BB	2269	G	N7-C5	5.12	1.42	1.39
25	BB	2357	G	C2-N3	5.12	1.36	1.32
3	A1	951	G	C5'-C4'	5.12	1.57	1.51
3	A1	1072	G	C5-C4	5.12	1.42	1.38
25	BB	110	G	C5-C4	-5.12	1.34	1.38
25	BB	372	G	C2'-O2'	5.12	1.48	1.41
3	A1	142	G	N9-C8	5.12	1.41	1.37
3	A1	804	U	C5-C6	5.12	1.38	1.34
3	A1	825	A	N7-C5	-5.12	1.36	1.39
3	A1	1469	C	N3-C4	-5.12	1.30	1.33
3	A1	1489	G	N1-C2	-5.12	1.33	1.37
25	BB	106	C	N3-C4	-5.12	1.30	1.33
25	BB	831	G	C4'-O4'	-5.12	1.38	1.45
25	BB	1050	A	C2-N3	-5.12	1.28	1.33
25	BB	1430	G	C5-C6	5.12	1.47	1.42
25	BB	1681	G	C6-N1	-5.12	1.35	1.39
25	BB	1878	G	C6-O6	-5.12	1.19	1.24
25	BB	2455	G	C3'-C2'	-5.12	1.47	1.52
25	BB	2839	G	C2-N2	-5.12	1.29	1.34
3	A1	1342	C	C4-C5	-5.12	1.38	1.43
25	BB	249	C	C3'-C2'	-5.12	1.47	1.52
25	BB	350	G	N1-C2	-5.12	1.33	1.37
25	BB	596	U	N3-C4	5.12	1.43	1.38
25	BB	1906	G	N3-C4	5.12	1.39	1.35
2	AM	5	U	N3-C4	5.12	1.43	1.38
3	A1	31	G	C4'-C3'	-5.12	1.47	1.52
3	A1	666	G	C3'-C2'	-5.12	1.47	1.52
3	A1	834	U	C4-O4	-5.12	1.19	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	AX	72	ARG	CZ-NH2	-5.12	1.26	1.33
25	BB	4	U	N3-C4	-5.12	1.33	1.38
25	BB	76	C	C3'-C2'	5.12	1.58	1.52
25	BB	419	U	C2-N3	5.12	1.41	1.37
25	BB	972	A	N7-C5	5.12	1.42	1.39
25	BB	1259	G	C5'-C4'	5.12	1.57	1.51
25	BB	1466	U	C4'-O4'	-5.12	1.39	1.45
25	BB	1565	C	N1-C2	-5.12	1.35	1.40
25	BB	1802	A	C4'-O4'	-5.12	1.38	1.45
25	BB	1853	A	O3'-P	-5.12	1.55	1.61
25	BB	1891	G	C8-N7	5.12	1.34	1.30
25	BB	2099	U	C4-C5	5.12	1.48	1.43
25	BB	2408	U	C5-C6	5.12	1.38	1.34
25	BB	2521	C	C2-O2	5.12	1.29	1.24
1	AA	28	C	C5'-C4'	5.11	1.57	1.51
3	A1	39	G	N9-C8	-5.11	1.34	1.37
3	A1	274	A	C2-N3	-5.11	1.28	1.33
3	A1	935	A	C5-C6	5.11	1.45	1.41
15	AO	53	ARG	CD-NE	5.11	1.55	1.46
25	BB	50	U	C2-N3	5.11	1.41	1.37
25	BB	255	A	P-O5'	5.11	1.64	1.59
25	BB	658	U	P-O5'	-5.11	1.54	1.59
25	BB	668	A	C6-N6	-5.11	1.29	1.33
25	BB	1338	G	O3'-P	-5.11	1.55	1.61
25	BB	1720	U	N1-C6	5.11	1.42	1.38
25	BB	1931	U	C4'-O4'	-5.11	1.39	1.45
25	BB	2258	C	C3'-C2'	5.11	1.58	1.52
53	B4	46	PHE	CE2-CZ	5.11	1.47	1.37
53	B4	87	GLU	CD-OE1	-5.11	1.20	1.25
1	AP	20	G	N3-C4	5.11	1.39	1.35
3	A1	41	G	N9-C4	5.11	1.42	1.38
3	A1	923	A	C6-N1	-5.11	1.31	1.35
3	A1	1283	U	C4-O4	-5.11	1.19	1.23
21	AV	28	SER	CB-OG	-5.11	1.35	1.42
25	BB	154	U	N3-C4	-5.11	1.33	1.38
25	BB	1821	A	N1-C2	-5.11	1.29	1.34
25	BB	1882	U	C5-C6	5.11	1.38	1.34
25	BB	2869	G	C2'-O2'	5.11	1.48	1.41
3	A1	292	G	N3-C4	5.11	1.39	1.35
3	A1	363	A	C2'-C1'	5.11	1.58	1.53
3	A1	1169	A	C2'-C1'	5.11	1.58	1.53
3	A1	1287	A	C5-C6	5.11	1.45	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1464	U	C2-O2	5.11	1.26	1.22
24	BA	102	G	N7-C5	5.11	1.42	1.39
25	BB	176	A	C5'-C4'	5.11	1.57	1.51
25	BB	698	C	O4'-C1'	-5.11	1.35	1.41
25	BB	1025	G	N7-C5	5.11	1.42	1.39
25	BB	1100	C	N3-C4	-5.11	1.30	1.33
25	BB	1132	U	C4-C5	5.11	1.48	1.43
25	BB	1147	A	N7-C5	5.11	1.42	1.39
25	BB	1181	U	C5'-C4'	5.11	1.57	1.51
25	BB	1369	G	C2'-O2'	5.11	1.48	1.41
25	BB	2012	G	C6-O6	-5.11	1.19	1.24
25	BB	2143	C	C4'-O4'	-5.11	1.39	1.45
25	BB	2209	G	C5-C4	5.11	1.42	1.38
25	BB	2760	C	C5'-C4'	5.11	1.57	1.51
3	A1	106	C	C4-C5	-5.11	1.38	1.43
3	A1	299	G	C5-C6	5.11	1.47	1.42
3	A1	1410	A	N1-C2	-5.11	1.29	1.34
25	BB	1909	C	N3-C4	-5.11	1.30	1.33
25	BB	2723	C	C2-N3	-5.11	1.31	1.35
3	A1	27	G	C3'-C2'	-5.11	1.47	1.52
3	A1	399	G	O3'-P	-5.11	1.55	1.61
3	A1	1065	U	C2'-O2'	5.11	1.48	1.41
24	BA	108	A	C2'-C1'	5.11	1.58	1.53
25	BB	522	A	C6-N1	-5.11	1.31	1.35
25	BB	922	C	C4-N4	-5.11	1.29	1.33
25	BB	979	A	N1-C2	-5.11	1.29	1.34
25	BB	1468	U	P-O5'	-5.11	1.54	1.59
25	BB	1478	G	C2-N2	-5.11	1.29	1.34
25	BB	2228	G	C5'-C4'	5.11	1.57	1.51
25	BB	2234	G	C4'-O4'	-5.11	1.39	1.45
25	BB	2446	G	C4'-O4'	-5.11	1.39	1.45
3	A1	399	G	N3-C4	5.11	1.39	1.35
3	A1	480	U	P-O5'	-5.11	1.54	1.59
3	A1	551	U	N1-C2	5.11	1.43	1.38
3	A1	925	G	C5-C4	-5.11	1.34	1.38
25	BB	86	G	N3-C4	5.11	1.39	1.35
25	BB	384	A	C8-N7	5.11	1.35	1.31
25	BB	518	G	C2-N2	-5.11	1.29	1.34
25	BB	582	A	N3-C4	5.11	1.38	1.34
25	BB	1714	U	C4-O4	-5.11	1.19	1.23
25	BB	1802	A	C5'-C4'	5.11	1.57	1.51
25	BB	1906	G	C4'-O4'	-5.11	1.39	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	927	G	N9-C4	-5.10	1.33	1.38
3	A1	1097	C	N3-C4	-5.10	1.30	1.33
25	BB	985	C	N1-C6	-5.10	1.34	1.37
25	BB	1757	A	C5-C6	5.10	1.45	1.41
25	BB	2219	U	C2-N3	5.10	1.41	1.37
25	BB	2245	U	C4-C5	5.10	1.48	1.43
1	AP	74	C	N1-C6	-5.10	1.34	1.37
1	AE	27	C	N1-C6	5.10	1.40	1.37
3	A1	336	A	N9-C8	-5.10	1.33	1.37
3	A1	1269	A	N7-C5	5.10	1.42	1.39
3	A1	1307	U	P-O5'	-5.10	1.54	1.59
25	BB	520	G	N7-C5	5.10	1.42	1.39
25	BB	731	C	C4-C5	-5.10	1.38	1.43
25	BB	809	G	N9-C8	-5.10	1.34	1.37
25	BB	822	G	C5'-C4'	5.10	1.57	1.51
25	BB	959	A	O4'-C1'	5.10	1.48	1.41
25	BB	1098	A	N3-C4	5.10	1.38	1.34
25	BB	1581	G	C5'-C4'	5.10	1.57	1.51
25	BB	1739	A	C6-N6	-5.10	1.29	1.33
25	BB	2561	U	C5'-C4'	5.10	1.57	1.51
25	BB	2820	A	N9-C4	-5.10	1.34	1.37
31	BH	20	GLU	CG-CD	5.10	1.59	1.51
3	A1	761	G	C3'-O3'	-5.10	1.35	1.42
24	BA	10	G	N3-C4	5.10	1.39	1.35
25	BB	36	G	O3'-P	-5.10	1.55	1.61
25	BB	698	C	O3'-P	-5.10	1.55	1.61
25	BB	2294	G	C2-N2	-5.10	1.29	1.34
25	BB	2774	C	C2'-C1'	-5.10	1.47	1.53
25	BB	2787	C	C4-C5	-5.10	1.38	1.43
3	A1	735	C	O4'-C1'	-5.10	1.35	1.41
3	A1	1160	G	C6-N1	-5.10	1.35	1.39
25	BB	861	A	C1'-N9	5.10	1.56	1.48
25	BB	1122	G	C6-O6	-5.10	1.19	1.24
25	BB	1144	A	C2-N3	5.10	1.38	1.33
25	BB	1509	A	C4'-O4'	-5.10	1.39	1.45
25	BB	1628	G	C2-N2	-5.10	1.29	1.34
25	BB	2569	G	C4'-C3'	-5.10	1.47	1.52
25	BB	2635	A	C3'-C2'	5.10	1.58	1.52
28	BE	2	ARG	CZ-NH2	-5.10	1.26	1.33
29	BF	66	ARG	NE-CZ	-5.10	1.26	1.33
1	AA	39	U	C4'-C3'	-5.10	1.47	1.52
1	AA	48	C	C5-C6	5.10	1.38	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AE	63	C	C4-N4	-5.10	1.29	1.33
3	A1	11	G	C3'-C2'	5.10	1.58	1.52
3	A1	996	A	C6-N6	-5.10	1.29	1.33
3	A1	1157	A	N9-C4	5.10	1.41	1.37
3	A1	1318	A	C5'-C4'	5.10	1.57	1.51
3	A1	1465	A	N7-C5	5.10	1.42	1.39
3	A1	1523	G	C5-C6	5.10	1.47	1.42
9	AH	53	ARG	CZ-NH1	-5.10	1.26	1.33
25	BB	265	A	O4'-C1'	5.10	1.48	1.41
25	BB	348	A	C2-N3	5.10	1.38	1.33
25	BB	368	A	C3'-O3'	5.10	1.49	1.42
25	BB	910	A	N3-C4	5.10	1.38	1.34
25	BB	975	A	N3-C4	5.10	1.38	1.34
25	BB	1262	A	C8-N7	5.10	1.35	1.31
25	BB	1803	A	O3'-P	-5.10	1.55	1.61
25	BB	1894	C	O3'-P	-5.10	1.55	1.61
25	BB	2167	U	C2-N3	5.10	1.41	1.37
25	BB	2526	G	N9-C8	5.10	1.41	1.37
25	BB	2582	G	C6-N1	5.10	1.43	1.39
30	BG	90	ARG	NE-CZ	-5.10	1.26	1.33
37	BN	148	GLY	CA-C	5.10	1.60	1.51
1	AP	5	A	N3-C4	5.10	1.38	1.34
3	A1	408	A	N1-C2	-5.10	1.29	1.34
8	AG	52	ARG	CZ-NH2	-5.10	1.26	1.33
25	BB	88	G	C3'-C2'	5.10	1.58	1.52
25	BB	96	C	C5-C6	5.10	1.38	1.34
25	BB	547	A	C6-N6	-5.10	1.29	1.33
25	BB	552	U	C2-N3	-5.10	1.34	1.37
25	BB	1615	C	C1'-N1	5.10	1.56	1.48
25	BB	1660	G	N9-C8	-5.10	1.34	1.37
25	BB	1666	G	N1-C2	-5.10	1.33	1.37
25	BB	1800	C	C4'-O4'	-5.10	1.39	1.45
25	BB	2775	G	N9-C4	5.10	1.42	1.38
3	A1	56	U	C2'-C1'	-5.09	1.47	1.53
3	A1	207	C	N1-C6	-5.09	1.34	1.37
3	A1	1209	C	C4'-O4'	-5.09	1.39	1.45
25	BB	302	C	C4-N4	-5.09	1.29	1.33
25	BB	322	A	C3'-C2'	-5.09	1.47	1.52
25	BB	454	A	C6-N6	-5.09	1.29	1.33
25	BB	644	A	C5'-C4'	5.09	1.57	1.51
25	BB	1118	C	C2'-O2'	5.09	1.48	1.41
25	BB	1120	G	N1-C2	-5.09	1.33	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1279	G	N9-C4	-5.09	1.33	1.38
25	BB	1333	G	C2-N2	-5.09	1.29	1.34
25	BB	1477	A	N3-C4	5.09	1.38	1.34
25	BB	2363	G	N9-C8	5.09	1.41	1.37
25	BB	2660	A	N9-C8	-5.09	1.33	1.37
3	A1	7	A	C3'-C2'	5.09	1.58	1.52
3	A1	880	C	N3-C4	-5.09	1.30	1.33
24	BA	21	G	C3'-C2'	5.09	1.58	1.52
25	BB	18	U	C2'-C1'	-5.09	1.47	1.53
25	BB	1080	A	C5-C6	5.09	1.45	1.41
25	BB	1134	A	O3'-P	-5.09	1.55	1.61
25	BB	1221	C	C3'-C2'	5.09	1.58	1.52
25	BB	1445	G	N1-C2	-5.09	1.33	1.37
25	BB	2287	A	P-O5'	-5.09	1.54	1.59
25	BB	2303	G	N7-C5	5.09	1.42	1.39
3	A1	488	C	N1-C2	5.09	1.45	1.40
3	A1	557	G	N9-C8	-5.09	1.34	1.37
3	A1	910	C	C4-N4	-5.09	1.29	1.33
3	A1	1014	A	N9-C4	-5.09	1.34	1.37
3	A1	1145	A	C2-N3	-5.09	1.28	1.33
3	A1	1185	G	C4'-C3'	-5.09	1.47	1.52
3	A1	1396	A	C8-N7	-5.09	1.27	1.31
17	AR	22	SER	CA-CB	5.09	1.60	1.52
24	BA	60	C	C2-O2	-5.09	1.19	1.24
25	BB	185	G	C8-N7	-5.09	1.27	1.30
25	BB	447	A	C5-C4	-5.09	1.35	1.38
25	BB	668	A	P-O5'	5.09	1.64	1.59
25	BB	1394	U	N1-C6	5.09	1.42	1.38
25	BB	1631	G	C4'-O4'	-5.09	1.39	1.45
25	BB	1717	A	N9-C4	5.09	1.41	1.37
25	BB	2321	U	C2'-C1'	-5.09	1.47	1.53
25	BB	2788	C	C2-N3	5.09	1.39	1.35
3	A1	39	G	C3'-C2'	-5.09	1.47	1.52
3	A1	197	A	C6-N6	-5.09	1.29	1.33
3	A1	260	G	O4'-C1'	5.09	1.48	1.41
3	A1	377	G	C2-N2	-5.09	1.29	1.34
3	A1	557	G	P-O5'	5.09	1.64	1.59
3	A1	566	G	C5'-C4'	5.09	1.57	1.51
3	A1	660	C	O3'-P	-5.09	1.55	1.61
3	A1	1082	A	C2'-C1'	5.09	1.58	1.53
3	A1	1188	A	C3'-C2'	-5.09	1.47	1.52
3	A1	1510	C	C2'-C1'	5.09	1.58	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	396	G	C3'-C2'	5.09	1.58	1.52
25	BB	842	U	C2'-C1'	5.09	1.58	1.53
25	BB	1436	G	C3'-C2'	-5.09	1.47	1.52
25	BB	1819	A	C8-N7	-5.09	1.27	1.31
25	BB	2011	U	C5-C6	5.09	1.38	1.34
25	BB	2057	G	C2-N3	-5.09	1.28	1.32
25	BB	2479	U	N3-C4	-5.09	1.33	1.38
25	BB	2576	G	P-O5'	-5.09	1.54	1.59
3	A1	1013	G	N9-C8	5.09	1.41	1.37
25	BB	45	G	C5'-C4'	5.09	1.57	1.51
25	BB	993	G	P-O5'	-5.09	1.54	1.59
25	BB	2244	U	N1-C2	5.09	1.43	1.38
25	BB	2344	U	C4-C5	-5.09	1.39	1.43
3	A1	652	U	P-OP1	-5.09	1.40	1.49
25	BB	275	C	C4-N4	-5.09	1.29	1.33
25	BB	950	G	C8-N7	5.09	1.34	1.30
25	BB	1064	C	C4-N4	-5.09	1.29	1.33
25	BB	1547	C	C2'-C1'	-5.09	1.47	1.53
25	BB	1974	C	C2-O2	5.09	1.29	1.24
25	BB	2310	C	C2'-C1'	5.09	1.58	1.53
3	A1	528	C	N1-C2	5.08	1.45	1.40
24	BA	16	G	C6-N1	-5.08	1.35	1.39
25	BB	93	G	N7-C5	-5.08	1.36	1.39
25	BB	208	C	C4-N4	-5.08	1.29	1.33
25	BB	1999	C	O4'-C1'	5.08	1.48	1.41
25	BB	2541	A	N9-C8	-5.08	1.33	1.37
1	AA	22	G	O3'-P	-5.08	1.55	1.61
3	A1	123	U	C3'-O3'	-5.08	1.35	1.42
25	BB	1125	G	C2'-O2'	5.08	1.48	1.41
25	BB	1191	G	O3'-P	-5.08	1.55	1.61
25	BB	1665	A	C6-N1	-5.08	1.31	1.35
25	BB	1937	A	C6-N6	-5.08	1.29	1.33
25	BB	1970	A	C4'-C3'	5.08	1.58	1.53
25	BB	2084	C	C4-N4	-5.08	1.29	1.33
25	BB	2602	A	N3-C4	5.08	1.37	1.34
1	AE	43	G	N3-C4	5.08	1.39	1.35
3	A1	82	G	P-O5'	-5.08	1.54	1.59
3	A1	416	G	N3-C4	5.08	1.39	1.35
3	A1	549	C	C3'-C2'	5.08	1.58	1.52
3	A1	641	U	C3'-C2'	5.08	1.58	1.52
3	A1	1243	C	C4'-C3'	5.08	1.58	1.53
3	A1	1251	A	P-O5'	5.08	1.64	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	23	G	N7-C5	5.08	1.42	1.39
25	BB	91	A	N7-C5	5.08	1.42	1.39
25	BB	1047	G	C5-C4	5.08	1.42	1.38
25	BB	1746	A	C6-N1	5.08	1.39	1.35
25	BB	1841	U	C4-O4	5.08	1.27	1.23
25	BB	1966	A	O3'-P	5.08	1.67	1.61
25	BB	2022	U	N1-C6	5.08	1.42	1.38
25	BB	2142	A	C2'-O2'	5.08	1.48	1.41
25	BB	2242	G	N1-C2	-5.08	1.33	1.37
25	BB	2848	G	C2-N3	-5.08	1.28	1.32
3	A1	82	G	C6-O6	-5.08	1.19	1.24
3	A1	370	C	O3'-P	-5.08	1.55	1.61
3	A1	439	U	C4-O4	-5.08	1.19	1.23
3	A1	478	A	N7-C5	5.08	1.42	1.39
3	A1	618	C	C2'-C1'	5.08	1.58	1.53
3	A1	716	A	C3'-C2'	5.08	1.58	1.52
3	A1	1375	A	C5-C4	-5.08	1.35	1.38
25	BB	26	G	C5-C4	5.08	1.42	1.38
25	BB	260	G	C6-N1	5.08	1.43	1.39
25	BB	650	C	P-O5'	5.08	1.64	1.59
25	BB	906	U	C2-O2	-5.08	1.17	1.22
25	BB	1211	C	C4'-C3'	-5.08	1.47	1.52
25	BB	1324	G	C5-C4	5.08	1.42	1.38
3	A1	448	A	C4'-C3'	5.08	1.58	1.53
3	A1	634	C	C5-C6	5.08	1.38	1.34
3	A1	716	A	C6-N1	-5.08	1.31	1.35
3	A1	848	C	P-O5'	-5.08	1.54	1.59
25	BB	637	A	C5'-C4'	5.08	1.57	1.51
25	BB	930	G	C8-N7	5.08	1.33	1.30
25	BB	1903	G	C5'-C4'	5.08	1.57	1.51
25	BB	1938	A	C6-N6	-5.08	1.29	1.33
25	BB	714	U	C1'-N1	5.08	1.56	1.48
25	BB	2805	C	O3'-P	-5.08	1.55	1.61
1	AP	61	C	C4'-O4'	-5.08	1.39	1.45
3	A1	104	G	C2-N2	-5.08	1.29	1.34
3	A1	800	G	C2-N2	-5.08	1.29	1.34
3	A1	880	C	N1-C6	5.08	1.40	1.37
3	A1	1248	A	C5-C6	5.08	1.45	1.41
24	BA	82	U	C4-O4	-5.08	1.19	1.23
25	BB	240	C	C5-C6	5.08	1.38	1.34
25	BB	351	C	C2'-C1'	-5.08	1.47	1.53
25	BB	689	A	N7-C5	-5.08	1.36	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	690	G	C5-C6	5.08	1.47	1.42
25	BB	977	G	N1-C2	-5.08	1.33	1.37
25	BB	1232	G	C1'-N9	5.08	1.56	1.48
25	BB	1971	U	N1-C6	5.08	1.42	1.38
25	BB	2278	A	O3'-P	5.08	1.67	1.61
51	B2	7	TYR	CD1-CE1	5.08	1.47	1.39
1	AA	71	G	C6-N1	-5.07	1.35	1.39
1	AE	73	A	C6-N1	-5.07	1.31	1.35
3	A1	75	G	O4'-C1'	5.07	1.48	1.41
3	A1	83	C	C2'-O2'	5.07	1.48	1.41
3	A1	797	C	N3-C4	-5.07	1.30	1.33
3	A1	1042	A	N9-C8	5.07	1.41	1.37
4	AB	94	ARG	CZ-NH2	-5.07	1.26	1.33
22	AW	72	SER	N-CA	5.07	1.56	1.46
25	BB	388	G	C5-C6	5.07	1.47	1.42
25	BB	610	C	C2'-O2'	5.07	1.48	1.41
25	BB	923	G	C3'-C2'	5.07	1.58	1.52
25	BB	1107	G	N7-C5	5.07	1.42	1.39
25	BB	1158	C	O3'-P	-5.07	1.55	1.61
25	BB	1685	C	C4'-O4'	-5.07	1.39	1.45
25	BB	1772	A	C6-N1	-5.07	1.31	1.35
25	BB	1807	G	C4'-O4'	-5.07	1.39	1.45
25	BB	2531	A	C5'-C4'	5.07	1.57	1.51
24	BA	82	U	C4'-C3'	5.07	1.58	1.53
25	BB	345	A	N1-C2	-5.07	1.29	1.34
25	BB	478	A	C4'-O4'	-5.07	1.39	1.45
25	BB	910	A	C2'-C1'	5.07	1.58	1.53
25	BB	1169	A	N7-C5	-5.07	1.36	1.39
25	BB	1347	A	C2-N3	-5.07	1.28	1.33
25	BB	1581	G	C5-C4	-5.07	1.34	1.38
25	BB	1883	U	C5-C6	5.07	1.38	1.34
25	BB	1982	U	C2'-C1'	5.07	1.58	1.53
25	BB	2213	U	N3-C4	-5.07	1.33	1.38
25	BB	2603	G	C2-N2	-5.07	1.29	1.34
1	AE	28	C	N1-C2	5.07	1.45	1.40
2	AM	19	U	C5-C6	5.07	1.38	1.34
3	A1	193	C	C5-C6	5.07	1.38	1.34
3	A1	237	G	C6-N1	-5.07	1.36	1.39
3	A1	530	G	N9-C8	-5.07	1.34	1.37
3	A1	728	A	P-O5'	5.07	1.64	1.59
3	A1	1325	C	C4-C5	-5.07	1.38	1.43
25	BB	1	G	N9-C8	-5.07	1.34	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	136	G	C2-N3	5.07	1.36	1.32
25	BB	322	A	C5-C6	5.07	1.45	1.41
25	BB	407	G	C8-N7	5.07	1.33	1.30
25	BB	1792	G	N9-C8	-5.07	1.34	1.37
25	BB	1964	G	C5-C6	5.07	1.47	1.42
25	BB	2185	U	P-O5'	5.07	1.64	1.59
25	BB	2301	C	C4-N4	-5.07	1.29	1.33
25	BB	2890	G	C5 ³ -C4'	5.07	1.57	1.51
25	BB	1271	G	C5-C6	5.07	1.47	1.42
25	BB	1434	A	N1-C2	-5.07	1.29	1.34
25	BB	2517	C	N1-C6	-5.07	1.34	1.37
1	AE	30	G	C8-N7	5.07	1.33	1.30
3	A1	322	C	N3-C4	-5.07	1.30	1.33
3	A1	560	A	C4 ³ -C3'	5.07	1.58	1.53
3	A1	921	U	N3-C4	-5.07	1.33	1.38
3	A1	1099	G	P-O5'	5.07	1.64	1.59
3	A1	1450	U	C5-C6	5.07	1.38	1.34
25	BB	89	A	C4'-O4'	-5.07	1.39	1.45
25	BB	176	A	C5-C4	-5.07	1.35	1.38
25	BB	376	G	C5-C4	5.07	1.41	1.38
25	BB	391	A	C6-N1	-5.07	1.32	1.35
25	BB	735	A	C6-N6	-5.07	1.29	1.33
25	BB	946	C	N3-C4	-5.07	1.30	1.33
25	BB	1343	G	C5-C6	5.07	1.47	1.42
25	BB	1453	A	N9-C4	5.07	1.40	1.37
25	BB	1722	A	P-O5'	-5.07	1.54	1.59
25	BB	1805	A	N1-C2	-5.07	1.29	1.34
25	BB	1925	C	C4'-C3'	5.07	1.58	1.53
25	BB	1932	A	C6-N1	-5.07	1.32	1.35
25	BB	2468	A	C4'-O4'	-5.07	1.39	1.45
3	A1	32	A	C6-N1	-5.07	1.32	1.35
3	A1	181	A	C3 ³ -C2'	5.07	1.58	1.52
3	A1	305	G	N9-C8	-5.07	1.34	1.37
3	A1	345	C	O4 ³ -C1'	5.07	1.48	1.41
3	A1	1036	A	C5 ³ -C4'	5.07	1.57	1.51
3	A1	1066	C	C5-C6	-5.07	1.30	1.34
22	AW	81	GLY	CA-C	5.07	1.59	1.51
25	BB	492	A	C6-N6	-5.07	1.29	1.33
25	BB	505	A	C5 ³ -C4'	5.07	1.57	1.51
25	BB	565	C	C5 ³ -C4'	5.07	1.57	1.51
25	BB	1017	G	C5-C6	5.07	1.47	1.42
25	BB	1042	G	C3 ³ -C2'	5.07	1.58	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1422	G	N3-C4	5.07	1.39	1.35
25	BB	1533	C	O4'-C1'	5.07	1.48	1.41
25	BB	1679	A	C3'-C2'	5.07	1.58	1.52
25	BB	1838	C	C3'-C2'	5.07	1.58	1.52
25	BB	2003	A	N9-C8	-5.07	1.33	1.37
25	BB	2222	C	C5-C6	5.07	1.38	1.34
25	BB	2409	G	C3'-O3'	5.07	1.49	1.42
25	BB	2864	G	C2-N3	-5.07	1.28	1.32
3	A1	97	G	N7-C5	5.06	1.42	1.39
3	A1	932	C	C5-C6	5.06	1.38	1.34
25	BB	297	G	C2'-C1'	5.06	1.58	1.53
25	BB	460	A	C2-N3	5.06	1.38	1.33
25	BB	493	G	N9-C4	5.06	1.42	1.38
36	BM	26	LYS	N-CA	5.06	1.56	1.46
3	A1	187	G	C5-C6	5.06	1.47	1.42
3	A1	394	G	N9-C4	5.06	1.42	1.38
3	A1	616	G	P-O5'	5.06	1.64	1.59
3	A1	898	G	C2'-C1'	5.06	1.58	1.53
3	A1	948	C	P-O5'	5.06	1.64	1.59
3	A1	1325	C	C4'-C3'	5.06	1.58	1.53
3	A1	1360	A	N9-C4	5.06	1.40	1.37
3	A1	1372	U	C3'-C2'	-5.06	1.47	1.52
24	BA	69	G	N1-C2	-5.06	1.33	1.37
25	BB	125	A	C2'-O2'	5.06	1.48	1.41
25	BB	141	G	C2-N2	-5.06	1.29	1.34
25	BB	1025	G	C2-N2	-5.06	1.29	1.34
25	BB	1228	G	P-O5'	5.06	1.64	1.59
25	BB	2206	C	N1-C2	5.06	1.45	1.40
25	BB	2333	A	C6-N1	-5.06	1.32	1.35
25	BB	2607	G	C2'-C1'	-5.06	1.47	1.53
25	BB	2644	G	C3'-O3'	5.06	1.49	1.42
25	BB	2648	G	C6-N1	-5.06	1.36	1.39
3	A1	1031	C	P-O5'	-5.06	1.54	1.59
3	A1	1210	C	P-O5'	5.06	1.64	1.59
25	BB	613	A	C5'-C4'	5.06	1.57	1.51
25	BB	2609	U	C5'-C4'	-5.06	1.45	1.51
25	BB	2674	G	C5-C4	5.06	1.41	1.38
3	A1	580	C	C4-C5	-5.06	1.39	1.43
3	A1	701	U	C4'-C3'	5.06	1.58	1.53
14	AN	24	ARG	CZ-NH1	-5.06	1.26	1.33
25	BB	135	U	C5'-C4'	5.06	1.57	1.51
25	BB	602	A	C8-N7	-5.06	1.28	1.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	858	G	N3-C4	5.06	1.39	1.35
25	BB	993	G	C6-N1	-5.06	1.36	1.39
25	BB	1153	C	C4-C5	-5.06	1.39	1.43
25	BB	1184	U	O3'-P	5.06	1.67	1.61
25	BB	1343	G	C2-N3	-5.06	1.28	1.32
25	BB	1372	U	C3'-C2'	-5.06	1.47	1.52
25	BB	1383	A	C5'-C4'	5.06	1.57	1.51
25	BB	1477	A	C6-N6	-5.06	1.29	1.33
25	BB	1570	A	C5'-C4'	5.06	1.57	1.51
25	BB	1663	G	C4'-C3'	-5.06	1.47	1.52
25	BB	1697	G	C8-N7	5.06	1.33	1.30
25	BB	2008	C	C4-C5	-5.06	1.39	1.43
25	BB	2121	G	P-O5'	-5.06	1.54	1.59
3	A1	570	G	P-O5'	-5.06	1.54	1.59
3	A1	1142	G	C2-N2	-5.06	1.29	1.34
25	BB	82	U	C4-C5	5.06	1.48	1.43
25	BB	176	A	C5-C6	5.06	1.45	1.41
25	BB	458	G	C2'-C1'	-5.06	1.47	1.53
25	BB	619	G	C3'-C2'	5.06	1.58	1.52
25	BB	808	G	C2-N3	5.06	1.36	1.32
25	BB	861	A	C3'-C2'	5.06	1.58	1.52
25	BB	934	U	P-O5'	5.06	1.64	1.59
25	BB	1072	C	C4-C5	-5.06	1.39	1.43
25	BB	1870	C	C5-C6	5.06	1.38	1.34
25	BB	1911	U	N1-C6	-5.06	1.33	1.38
25	BB	2624	G	P-O5'	5.06	1.64	1.59
25	BB	2748	A	C2-N3	5.06	1.38	1.33
25	BB	2792	A	O3'-P	-5.06	1.55	1.61
3	A1	1091	U	C4'-O4'	-5.06	1.39	1.45
3	A1	1164	G	O3'-P	-5.06	1.55	1.61
1	AA	16	U	P-O5'	5.05	1.64	1.59
1	AE	25	C	C2-O2	-5.05	1.20	1.24
3	A1	484	G	C5-C4	-5.05	1.34	1.38
3	A1	546	A	O4'-C1'	5.05	1.48	1.41
3	A1	1380	U	P-O5'	5.05	1.64	1.59
3	A1	1526	G	C6-O6	-5.05	1.19	1.24
24	BA	11	C	C5'-C4'	5.05	1.57	1.51
25	BB	73	A	C4'-C3'	5.05	1.58	1.53
25	BB	527	C	N1-C6	5.05	1.40	1.37
25	BB	1262	A	C5'-C4'	5.05	1.57	1.51
25	BB	1706	C	C2'-O2'	-5.05	1.35	1.41
25	BB	1772	A	O3'-P	-5.05	1.55	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	2110	G	C5-C6	5.05	1.47	1.42
25	BB	2203	U	O3'-P	-5.05	1.55	1.61
25	BB	2550	G	N9-C4	5.05	1.42	1.38
25	BB	2600	A	C5-C4	-5.05	1.35	1.38
25	BB	2631	G	C3'-C2'	5.05	1.58	1.52
25	BB	2780	G	O4'-C1'	5.05	1.48	1.41
3	A1	158	G	C2'-O2'	-5.05	1.35	1.41
3	A1	1310	G	C2-N2	-5.05	1.29	1.34
25	BB	108	G	C2'-O2'	5.05	1.48	1.41
25	BB	327	G	N3-C4	5.05	1.39	1.35
25	BB	1115	G	C5-C4	-5.05	1.34	1.38
25	BB	2383	G	C2'-C1'	-5.05	1.47	1.53
3	A1	14	U	C5-C6	5.05	1.38	1.34
3	A1	89	U	N3-C4	5.05	1.43	1.38
3	A1	444	G	O3'-P	-5.05	1.55	1.61
3	A1	481	G	N7-C5	5.05	1.42	1.39
3	A1	558	G	O3'-P	-5.05	1.55	1.61
3	A1	746	A	C5-C4	-5.05	1.35	1.38
3	A1	763	G	O3'-P	-5.05	1.55	1.61
3	A1	1133	G	C6-N1	5.05	1.43	1.39
3	A1	1299	A	O4'-C1'	5.05	1.48	1.41
3	A1	1300	G	C6-N1	-5.05	1.36	1.39
3	A1	1366	C	C5'-C4'	5.05	1.57	1.51
3	A1	1455	G	C2-N2	-5.05	1.29	1.34
25	BB	91	A	N3-C4	5.05	1.37	1.34
25	BB	567	U	C2-O2	5.05	1.26	1.22
25	BB	1151	A	N9-C8	-5.05	1.33	1.37
25	BB	2384	U	P-O5'	5.05	1.64	1.59
25	BB	2632	A	C6-N1	-5.05	1.32	1.35
25	BB	2880	C	N3-C4	-5.05	1.30	1.33
1	AE	1	G	C2'-C1'	5.05	1.58	1.53
3	A1	330	C	C4'-C3'	5.05	1.58	1.53
3	A1	669	G	C5-C6	5.05	1.47	1.42
3	A1	687	A	N9-C8	-5.05	1.33	1.37
3	A1	746	A	N1-C2	-5.05	1.29	1.34
3	A1	875	U	N3-C4	-5.05	1.33	1.38
3	A1	954	G	O4'-C1'	5.05	1.48	1.41
25	BB	394	C	N3-C4	-5.05	1.30	1.33
25	BB	863	A	N9-C8	5.05	1.41	1.37
25	BB	1075	C	N3-C4	-5.05	1.30	1.33
25	BB	1325	U	C2-N3	5.05	1.41	1.37
25	BB	1425	G	C3'-O3'	5.05	1.49	1.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1672	A	O3'-P	-5.05	1.55	1.61
3	A1	703	G	C5-C6	5.05	1.47	1.42
3	A1	915	A	C2-N3	-5.05	1.29	1.33
3	A1	1519	A	C4'-C3'	5.05	1.58	1.53
44	BU	50	GLU	CG-CD	5.05	1.59	1.51
1	AE	11	C	N3-C4	-5.05	1.30	1.33
3	A1	121	U	C4'-O4'	-5.05	1.39	1.45
3	A1	285	C	C3'-C2'	5.05	1.58	1.52
3	A1	402	G	N9-C4	-5.05	1.33	1.38
3	A1	688	G	C4'-O4'	-5.05	1.39	1.45
3	A1	798	U	C4'-C3'	-5.05	1.47	1.52
3	A1	1382	C	O5'-C5'	-5.05	1.34	1.42
3	A1	1436	U	C4-C5	5.05	1.48	1.43
25	BB	51	G	C5-C6	-5.05	1.37	1.42
25	BB	502	A	N3-C4	5.05	1.37	1.34
25	BB	612	G	C1'-N9	5.05	1.56	1.48
25	BB	800	A	C6-N1	-5.05	1.32	1.35
25	BB	990	A	N3-C4	5.05	1.37	1.34
25	BB	1405	U	O3'-P	-5.05	1.55	1.61
25	BB	1715	G	P-O5'	-5.05	1.54	1.59
25	BB	1845	G	N3-C4	5.05	1.39	1.35
1	AE	73	A	N1-C2	-5.04	1.29	1.34
2	AM	1	U	N3-C4	-5.04	1.33	1.38
3	A1	787	A	C4'-C3'	-5.04	1.47	1.52
3	A1	975	A	C5'-C4'	5.04	1.57	1.51
3	A1	1245	C	C4'-O4'	-5.04	1.39	1.45
17	AR	183	ARG	CZ-NH1	-5.04	1.26	1.33
25	BB	177	G	C2-N2	-5.04	1.29	1.34
25	BB	1747	U	N3-C4	-5.04	1.33	1.38
25	BB	1980	G	C3'-C2'	-5.04	1.47	1.52
25	BB	2621	G	C5'-C4'	5.04	1.57	1.51
1	AA	39	U	C4'-O4'	-5.04	1.39	1.45
3	A1	151	A	O3'-P	-5.04	1.55	1.61
3	A1	441	A	C2-N3	5.04	1.38	1.33
3	A1	621	A	C8-N7	-5.04	1.28	1.31
3	A1	916	U	C3'-C2'	5.04	1.58	1.52
3	A1	1160	G	C4'-C3'	-5.04	1.47	1.52
3	A1	1393	U	P-O5'	5.04	1.64	1.59
3	A1	1470	U	N1-C6	-5.04	1.33	1.38
8	AG	57	SER	CB-OG	5.04	1.48	1.42
15	AO	135	ARG	CZ-NH2	-5.04	1.26	1.33
24	BA	113	C	N1-C6	5.04	1.40	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	194	G	P-O5'	-5.04	1.54	1.59
25	BB	254	G	C3'-O3'	5.04	1.49	1.42
25	BB	648	G	C6-N1	-5.04	1.36	1.39
25	BB	810	U	C4'-O4'	-5.04	1.39	1.45
25	BB	880	G	C8-N7	5.04	1.33	1.30
25	BB	1044	C	C4-N4	-5.04	1.29	1.33
25	BB	1158	C	C3'-C2'	5.04	1.58	1.52
25	BB	1750	G	C2-N2	-5.04	1.29	1.34
25	BB	1815	A	C4'-O4'	-5.04	1.39	1.45
25	BB	1833	C	N3-C4	-5.04	1.30	1.33
1	AP	43	G	N9-C4	5.04	1.42	1.38
3	A1	86	G	C5-C6	5.04	1.47	1.42
3	A1	135	C	C2-O2	-5.04	1.20	1.24
3	A1	198	G	O3'-P	-5.04	1.55	1.61
3	A1	918	A	C5-C4	-5.04	1.35	1.38
3	A1	1030	U	C2-N3	-5.04	1.34	1.37
3	A1	1116	U	C2-O2	5.04	1.26	1.22
3	A1	1504	G	N7-C5	5.04	1.42	1.39
25	BB	296	U	C5-C6	5.04	1.38	1.34
25	BB	1591	A	C2'-O2'	5.04	1.48	1.41
25	BB	1676	A	C2-N3	-5.04	1.29	1.33
25	BB	2231	U	C5-C6	5.04	1.38	1.34
25	BB	2355	G	C2'-O2'	5.04	1.48	1.41
25	BB	2711	A	N7-C5	5.04	1.42	1.39
25	BB	2771	C	C2'-C1'	5.04	1.58	1.53
1	AP	9	A	C6-N6	-5.04	1.29	1.33
3	A1	1209	C	C2-N3	5.04	1.39	1.35
25	BB	247	G	C3'-O3'	5.04	1.49	1.42
25	BB	574	A	C4'-O4'	-5.04	1.39	1.45
25	BB	1546	G	C3'-C2'	-5.04	1.47	1.52
25	BB	1580	A	C3'-O3'	5.04	1.49	1.42
25	BB	1952	A	N3-C4	5.04	1.37	1.34
25	BB	2384	U	C3'-C2'	5.04	1.58	1.52
37	BN	155	ARG	CZ-NH2	-5.04	1.26	1.33
1	AP	33	U	C5-C6	5.04	1.38	1.34
3	A1	210	C	C5'-C4'	5.04	1.57	1.51
3	A1	369	G	C2-N2	-5.04	1.29	1.34
3	A1	703	G	N9-C8	5.04	1.41	1.37
3	A1	1130	A	C4'-C3'	-5.04	1.47	1.52
3	A1	1527	U	N1-C2	5.04	1.43	1.38
25	BB	42	A	C5-C6	5.04	1.45	1.41
25	BB	326	G	P-O5'	-5.04	1.54	1.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	481	G	C5'-C4'	5.04	1.57	1.51
25	BB	607	U	N3-C4	5.04	1.43	1.38
25	BB	878	A	N9-C4	5.04	1.40	1.37
25	BB	1037	G	C2-N3	5.04	1.36	1.32
25	BB	1146	C	C5'-C4'	5.04	1.57	1.51
25	BB	2222	C	C3'-C2'	-5.04	1.47	1.52
25	BB	2741	A	C5-C4	-5.04	1.35	1.38
31	BH	51	ALA	CA-CB	5.04	1.63	1.52
37	BN	251	THR	CA-CB	5.04	1.66	1.53
3	A1	221	C	C3'-C2'	-5.04	1.47	1.52
3	A1	1362	A	N9-C4	-5.04	1.34	1.37
3	A1	1513	A	N9-C4	-5.04	1.34	1.37
25	BB	55	G	P-O5'	-5.04	1.54	1.59
25	BB	607	U	C2-O2	5.04	1.26	1.22
25	BB	2012	G	C5'-C4'	5.04	1.57	1.51
25	BB	2472	G	O4'-C1'	5.04	1.48	1.41
3	A1	35	G	N9-C4	-5.04	1.33	1.38
3	A1	221	C	C2'-C1'	5.04	1.58	1.53
3	A1	252	U	O3'-P	-5.04	1.55	1.61
3	A1	450	G	C5-C6	5.04	1.47	1.42
3	A1	1325	C	P-OP1	-5.04	1.40	1.49
11	AJ	17	GLU	CG-CD	5.04	1.59	1.51
25	BB	297	G	C2-N2	-5.04	1.29	1.34
25	BB	367	G	C2'-C1'	-5.04	1.47	1.53
25	BB	428	A	P-O5'	5.04	1.64	1.59
25	BB	778	G	P-O5'	-5.04	1.54	1.59
25	BB	845	A	C6-N6	-5.04	1.29	1.33
25	BB	1353	A	C2-N3	-5.04	1.29	1.33
25	BB	1529	G	N1-C2	-5.04	1.33	1.37
25	BB	2030	A	C5'-C4'	5.04	1.57	1.51
25	BB	2587	A	N3-C4	5.04	1.37	1.34
32	BI	52	ARG	CZ-NH1	-5.04	1.26	1.33
33	BJ	57	ARG	CZ-NH1	-5.04	1.26	1.33
53	B4	132	PHE	CG-CD1	5.04	1.46	1.38
3	A1	972	C	C2-N3	5.03	1.39	1.35
25	BB	510	C	C5'-C4'	5.03	1.57	1.51
25	BB	906	U	C4'-C3'	5.03	1.58	1.53
25	BB	935	C	N3-C4	-5.03	1.30	1.33
25	BB	2139	U	C5-C6	5.03	1.38	1.34
25	BB	2442	C	N1-C6	-5.03	1.34	1.37
25	BB	2887	A	N9-C8	-5.03	1.33	1.37
25	BB	288	U	N1-C2	5.03	1.43	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	340	A	N1-C2	-5.03	1.29	1.34
25	BB	1546	G	C2-N2	-5.03	1.29	1.34
29	BF	51	ARG	CZ-NH1	-5.03	1.26	1.33
3	A1	28	A	C6-N6	-5.03	1.29	1.33
3	A1	54	C	C5'-C4'	5.03	1.57	1.51
3	A1	55	A	C5-C6	5.03	1.45	1.41
3	A1	207	C	C4-N4	-5.03	1.29	1.33
3	A1	349	A	C5-C6	-5.03	1.36	1.41
3	A1	432	A	C5'-C4'	5.03	1.57	1.51
3	A1	1356	G	C2-N2	-5.03	1.29	1.34
25	BB	1227	G	C5-C6	5.03	1.47	1.42
25	BB	1500	G	C8-N7	5.03	1.33	1.30
25	BB	1501	G	N1-C2	-5.03	1.33	1.37
25	BB	2229	U	C4-O4	5.03	1.27	1.23
25	BB	2320	U	N3-C4	-5.03	1.33	1.38
25	BB	2770	G	C2-N3	-5.03	1.28	1.32
3	A1	899	C	C4-N4	-5.03	1.29	1.33
25	BB	2071	A	C6-N6	-5.03	1.29	1.33
25	BB	2303	G	C5-C6	5.03	1.47	1.42
25	BB	2793	C	C4'-O4'	-5.03	1.39	1.45
1	AA	29	A	N1-C2	-5.03	1.29	1.34
3	A1	235	C	O3'-P	-5.03	1.55	1.61
3	A1	597	G	C5-C4	5.03	1.41	1.38
3	A1	752	G	C5-C6	5.03	1.47	1.42
3	A1	984	C	C2-O2	-5.03	1.20	1.24
3	A1	1013	G	C6-N1	-5.03	1.36	1.39
3	A1	1433	A	C8-N7	5.03	1.35	1.31
3	A1	1474	U	C5'-C4'	5.03	1.57	1.51
25	BB	85	G	N3-C4	5.03	1.39	1.35
25	BB	295	G	C2-N3	-5.03	1.28	1.32
25	BB	784	G	C5'-C4'	5.03	1.57	1.51
25	BB	1275	A	P-O5'	5.03	1.64	1.59
25	BB	1381	G	C2'-O2'	5.03	1.48	1.41
25	BB	1471	G	C6-O6	5.03	1.28	1.24
25	BB	1570	A	C5-C6	5.03	1.45	1.41
25	BB	1905	C	C2-N3	5.03	1.39	1.35
25	BB	1942	C	O4'-C1'	5.03	1.48	1.41
25	BB	2317	A	C5'-C4'	5.03	1.57	1.51
25	BB	2500	U	C2-N3	-5.03	1.34	1.37
25	BB	2505	G	N1-C2	-5.03	1.33	1.37
3	A1	355	C	N1-C6	5.03	1.40	1.37
3	A1	778	G	N7-C5	5.03	1.42	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1505	G	C2'-C1'	5.03	1.58	1.53
25	BB	54	G	C8-N7	-5.03	1.27	1.30
25	BB	383	C	C5-C6	5.03	1.38	1.34
25	BB	1411	U	C2-N3	-5.03	1.34	1.37
25	BB	1460	U	C4-O4	5.03	1.27	1.23
25	BB	1880	U	C4-C5	-5.03	1.39	1.43
25	BB	2751	G	N1-C2	-5.03	1.33	1.37
25	BB	2815	C	N1-C6	5.03	1.40	1.37
25	BB	2845	U	P-O5'	5.03	1.64	1.59
37	BN	51	ARG	CZ-NH2	-5.03	1.26	1.33
3	A1	605	U	C5'-C4'	5.02	1.57	1.51
25	BB	31	C	C5'-C4'	5.02	1.57	1.51
25	BB	276	U	O3'-P	-5.02	1.55	1.61
25	BB	1998	A	N9-C4	5.02	1.40	1.37
50	B1	19	PHE	CG-CD1	5.02	1.46	1.38
3	A1	502	A	C6-N1	-5.02	1.32	1.35
3	A1	652	U	N3-C4	-5.02	1.33	1.38
3	A1	893	C	C4-C5	-5.02	1.39	1.43
8	AG	41	TRP	CG-CD2	5.02	1.52	1.43
13	AL	33	TRP	CD2-CE2	5.02	1.47	1.41
24	BA	20	G	N3-C4	5.02	1.39	1.35
25	BB	493	G	C2-N3	-5.02	1.28	1.32
25	BB	780	G	C2-N2	-5.02	1.29	1.34
25	BB	1416	G	P-O5'	5.02	1.64	1.59
25	BB	1501	G	C4'-O4'	-5.02	1.39	1.45
25	BB	1627	G	C2'-O2'	5.02	1.48	1.41
25	BB	1731	G	C5-C4	-5.02	1.34	1.38
25	BB	2436	G	C5-C6	5.02	1.47	1.42
3	A1	1007	U	C4-C5	-5.02	1.39	1.43
3	A1	1280	A	C5-C4	-5.02	1.35	1.38
7	AF	112	ARG	CZ-NH2	-5.02	1.26	1.33
9	AH	76	ARG	CZ-NH1	-5.02	1.26	1.33
25	BB	618	G	C4'-O4'	-5.02	1.39	1.45
25	BB	2113	U	C2'-C1'	-5.02	1.47	1.53
25	BB	2200	C	N1-C6	5.02	1.40	1.37
25	BB	2209	G	C5-C6	5.02	1.47	1.42
25	BB	2643	G	P-O5'	5.02	1.64	1.59
25	BB	2736	A	P-O5'	-5.02	1.54	1.59
25	BB	2774	C	O3'-P	5.02	1.67	1.61
3	A1	239	U	N3-C4	5.02	1.43	1.38
3	A1	270	A	C2'-C1'	-5.02	1.47	1.53
3	A1	796	C	N1-C2	5.02	1.45	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	984	C	N1-C6	5.02	1.40	1.37
3	A1	1001	C	O3'-P	-5.02	1.55	1.61
3	A1	1103	C	C2-O2	-5.02	1.20	1.24
25	BB	214	G	O3'-P	-5.02	1.55	1.61
25	BB	311	A	C2-N3	5.02	1.38	1.33
25	BB	377	G	C5-C4	-5.02	1.34	1.38
25	BB	726	G	P-O5'	5.02	1.64	1.59
25	BB	1059	G	C2-N2	-5.02	1.29	1.34
25	BB	1357	C	C5'-C4'	5.02	1.57	1.51
25	BB	1501	G	C3'-O3'	5.02	1.49	1.42
25	BB	1656	C	C2'-O2'	5.02	1.48	1.41
25	BB	1760	C	C3'-C2'	5.02	1.58	1.52
25	BB	1972	G	C2'-C1'	-5.02	1.47	1.53
25	BB	2530	A	C4'-C3'	-5.02	1.47	1.52
25	BB	2702	G	C2-N2	-5.02	1.29	1.34
25	BB	2875	C	C4-C5	-5.02	1.39	1.43
3	A1	106	C	C4-N4	-5.02	1.29	1.33
3	A1	131	A	C3'-C2'	5.02	1.58	1.52
3	A1	142	G	C5-C4	5.02	1.41	1.38
3	A1	351	G	C4'-C3'	5.02	1.58	1.53
22	AW	84	ARG	NE-CZ	-5.02	1.26	1.33
24	BA	5	U	P-O5'	-5.02	1.54	1.59
25	BB	380	G	C2-N3	-5.02	1.28	1.32
25	BB	384	A	C6-N6	-5.02	1.29	1.33
25	BB	837	C	P-O5'	-5.02	1.54	1.59
25	BB	862	G	P-O5'	5.02	1.64	1.59
25	BB	2037	A	N9-C8	-5.02	1.33	1.37
25	BB	2079	U	C5-C6	5.02	1.38	1.34
25	BB	2370	G	N7-C5	5.02	1.42	1.39
25	BB	2538	C	O3'-P	-5.02	1.55	1.61
1	AA	44	A	N3-C4	5.02	1.37	1.34
1	AE	9	A	N1-C2	-5.02	1.29	1.34
3	A1	193	C	C5'-C4'	5.02	1.57	1.51
3	A1	668	G	O3'-P	-5.02	1.55	1.61
3	A1	1054	C	C4'-C3'	-5.02	1.47	1.52
3	A1	1305	G	N1-C2	-5.02	1.33	1.37
17	AR	72	ARG	CZ-NH1	-5.02	1.26	1.33
24	BA	17	C	C2'-C1'	5.02	1.58	1.53
25	BB	1696	G	C8-N7	5.02	1.33	1.30
25	BB	2375	G	N9-C4	-5.02	1.33	1.38
33	BJ	44	TYR	CE1-CZ	5.02	1.45	1.38
3	A1	196	A	C5-C6	5.01	1.45	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	1109	C	C3'-C2'	5.01	1.58	1.52
3	A1	1479	C	O5'-C5'	-5.01	1.34	1.42
20	AU	102	TRP	CD2-CE3	5.01	1.47	1.40
25	BB	1175	A	N7-C5	5.01	1.42	1.39
25	BB	1303	G	C5-C6	5.01	1.47	1.42
25	BB	1532	A	N9-C4	5.01	1.40	1.37
25	BB	1610	A	C3'-C2'	5.01	1.58	1.52
25	BB	1699	G	N9-C8	5.01	1.41	1.37
25	BB	1974	C	C3'-C2'	5.01	1.58	1.52
25	BB	2415	G	N9-C8	5.01	1.41	1.37
25	BB	2720	U	N1-C2	5.01	1.43	1.38
3	A1	197	A	C5'-C4'	5.01	1.57	1.51
25	BB	291	G	N9-C4	-5.01	1.33	1.38
25	BB	759	G	N1-C2	-5.01	1.33	1.37
25	BB	1029	A	C6-N1	-5.01	1.32	1.35
25	BB	1112	G	N1-C2	-5.01	1.33	1.37
25	BB	1738	G	C5'-C4'	5.01	1.57	1.51
25	BB	1857	G	C2-N2	-5.01	1.29	1.34
25	BB	2835	A	C6-N1	-5.01	1.32	1.35
32	BI	24	THR	CA-C	5.01	1.66	1.52
3	A1	43	C	P-O5'	-5.01	1.54	1.59
3	A1	264	C	C5-C6	5.01	1.38	1.34
3	A1	462	G	C2'-O2'	5.01	1.48	1.41
3	A1	1115	U	O4'-C1'	5.01	1.48	1.41
3	A1	1332	A	C6-N1	-5.01	1.32	1.35
11	AJ	27	PHE	CG-CD1	5.01	1.46	1.38
15	AO	87	ARG	CD-NE	5.01	1.54	1.46
25	BB	8	C	C2'-C1'	5.01	1.58	1.53
25	BB	143	C	O5'-C5'	-5.01	1.34	1.42
25	BB	430	A	P-O5'	5.01	1.64	1.59
25	BB	514	A	N1-C2	5.01	1.38	1.34
25	BB	823	C	P-O5'	-5.01	1.54	1.59
25	BB	1113	U	C5'-C4'	5.01	1.57	1.51
25	BB	1360	G	N7-C5	5.01	1.42	1.39
25	BB	1486	U	C4'-O4'	-5.01	1.39	1.45
25	BB	1493	C	P-O5'	5.01	1.64	1.59
25	BB	1664	A	O3'-P	-5.01	1.55	1.61
25	BB	2128	G	N9-C4	-5.01	1.33	1.38
25	BB	2282	G	N1-C2	-5.01	1.33	1.37
25	BB	2554	U	C4-O4	-5.01	1.19	1.23
25	BB	2816	G	C8-N7	-5.01	1.27	1.30
3	A1	93	U	C5'-C4'	5.01	1.57	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A1	259	G	O3'-P	5.01	1.67	1.61
3	A1	530	G	N3-C4	5.01	1.39	1.35
3	A1	613	C	C4'-C3'	5.01	1.58	1.53
24	BA	36	C	O3'-P	-5.01	1.55	1.61
24	BA	44	G	C8-N7	5.01	1.33	1.30
24	BA	104	A	C5-C4	-5.01	1.35	1.38
25	BB	555	G	P-O5'	5.01	1.64	1.59
25	BB	1450	G	N7-C5	5.01	1.42	1.39
25	BB	1463	C	C4'-C3'	5.01	1.58	1.53
25	BB	1502	A	C6-N1	-5.01	1.32	1.35
25	BB	1883	U	N3-C4	-5.01	1.33	1.38
25	BB	2272	U	C2'-O2'	5.01	1.48	1.41
25	BB	2454	G	N3-C4	5.01	1.39	1.35
25	BB	2899	A	C5-C4	-5.01	1.35	1.38
44	BU	38	PHE	CG-CD2	5.01	1.46	1.38
25	BB	392	U	N3-C4	-5.01	1.33	1.38
25	BB	593	U	C4-C5	5.01	1.48	1.43
25	BB	1787	A	C8-N7	5.01	1.35	1.31
25	BB	2570	G	N3-C4	5.01	1.39	1.35
3	A1	663	A	C4'-O4'	-5.01	1.39	1.45
3	A1	776	G	C5-C6	5.01	1.47	1.42
3	A1	821	G	C4'-C3'	-5.01	1.47	1.52
3	A1	900	A	N1-C2	-5.01	1.29	1.34
3	A1	1106	G	C6-N1	-5.01	1.36	1.39
3	A1	1328	C	C3'-O3'	5.01	1.49	1.42
3	A1	1432	G	C6-N1	-5.01	1.36	1.39
25	BB	382	A	C5-C6	5.01	1.45	1.41
25	BB	659	G	C6-N1	-5.01	1.36	1.39
25	BB	862	G	C3'-C2'	5.01	1.58	1.52
25	BB	898	C	N3-C4	-5.01	1.30	1.33
25	BB	972	A	N3-C4	5.01	1.37	1.34
25	BB	1023	U	C4-C5	5.01	1.48	1.43
25	BB	1091	G	C5'-C4'	5.01	1.57	1.51
25	BB	1148	U	C5'-C4'	5.01	1.57	1.51
25	BB	1208	C	C2-O2	-5.01	1.20	1.24
25	BB	1707	G	C6-N1	-5.01	1.36	1.39
25	BB	1715	G	N9-C4	5.01	1.42	1.38
25	BB	1833	C	C2-O2	-5.01	1.20	1.24
25	BB	2774	C	C3'-O3'	5.01	1.49	1.42
3	A1	319	G	C2-N2	-5.00	1.29	1.34
3	A1	1257	A	C4'-C3'	5.00	1.58	1.53
25	BB	700	G	C8-N7	-5.00	1.27	1.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BB	1565	C	C2'-O2'	5.00	1.48	1.41
25	BB	1571	A	N3-C4	5.00	1.37	1.34
25	BB	2289	G	O3'-P	-5.00	1.55	1.61
25	BB	2478	A	N9-C4	5.00	1.40	1.37
35	BL	18	ARG	CZ-NH2	-5.00	1.26	1.33
3	A1	592	G	N7-C5	5.00	1.42	1.39
3	A1	682	G	C3'-C2'	5.00	1.58	1.52
3	A1	912	C	C4-N4	-5.00	1.29	1.33
3	A1	953	G	C5-C4	-5.00	1.34	1.38
3	A1	1411	C	C4'-O4'	-5.00	1.39	1.45
25	BB	66	C	C2-N3	-5.00	1.31	1.35
25	BB	1271	G	C5-C4	-5.00	1.34	1.38
25	BB	1583	A	N7-C5	5.00	1.42	1.39
25	BB	1598	A	N9-C4	5.00	1.40	1.37
25	BB	2428	G	C2-N3	-5.00	1.28	1.32
25	BB	2674	G	C8-N7	5.00	1.33	1.30
3	A1	385	C	N1-C2	5.00	1.45	1.40
3	A1	652	U	C5-C6	5.00	1.38	1.34
3	A1	731	G	C4'-O4'	-5.00	1.39	1.45
3	A1	1122	U	C1'-N1	5.00	1.56	1.48
3	A1	1178	G	O3'-P	-5.00	1.55	1.61
7	AF	95	PRO	N-CD	-5.00	1.40	1.47
17	AR	187	ARG	CZ-NH2	-5.00	1.26	1.33
25	BB	61	C	N1-C6	-5.00	1.34	1.37
25	BB	370	G	C5-C4	-5.00	1.34	1.38
25	BB	733	G	N3-C4	5.00	1.39	1.35
25	BB	758	C	C4-N4	-5.00	1.29	1.33
25	BB	944	C	O3'-P	5.00	1.67	1.61
25	BB	1056	G	C6-N1	-5.00	1.36	1.39
25	BB	2146	C	C4-N4	-5.00	1.29	1.33
25	BB	2414	G	C5-C4	5.00	1.41	1.38
25	BB	2633	G	P-O5'	-5.00	1.54	1.59

All (36793) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	995	C	C5-C4-N4	-167.42	3.01	120.20
25	BB	995	C	C4-C5-C6	-165.92	34.44	117.40
25	BB	995	C	N1-C2-N3	-110.87	41.59	119.20
1	AP	74	C	P-O3'-C3'	-90.94	10.58	119.70
25	BB	995	C	N3-C4-C5	-73.62	92.45	121.90
25	BB	995	C	C2-N3-C4	-56.54	91.63	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	995	C	N3-C2-O2	-48.66	87.84	121.90
1	AA	17	U	O4'-C1'-N1	45.47	144.58	108.20
25	BB	995	C	N3-C4-N4	-38.22	91.25	118.00
1	AP	74	C	O3'-P-O5'	-32.85	41.58	104.00
24	BA	99	A	N1-C6-N6	-31.69	99.59	118.60
3	A1	344	A	N1-C6-N6	-30.98	100.01	118.60
25	BB	453	A	N1-C6-N6	-30.92	100.05	118.60
25	BB	1515	A	N1-C6-N6	-30.66	100.21	118.60
25	BB	2868	A	N1-C6-N6	-30.64	100.22	118.60
25	BB	2873	A	N1-C6-N6	-28.98	101.21	118.60
25	BB	2619	C	N3-C2-O2	-28.28	102.10	121.90
25	BB	28	A	N1-C6-N6	-27.68	101.99	118.60
25	BB	346	A	N1-C6-N6	-27.36	102.18	118.60
3	A1	1256	A	N1-C6-N6	-27.25	102.25	118.60
25	BB	2600	A	N1-C6-N6	-27.24	102.25	118.60
25	BB	6	A	N1-C6-N6	-27.20	102.28	118.60
25	BB	2298	A	N1-C6-N6	-26.66	102.60	118.60
25	BB	1669	A	N1-C6-N6	-26.61	102.64	118.60
25	BB	968	C	N3-C4-C5	26.54	132.52	121.90
25	BB	973	A	N1-C6-N6	-26.46	102.72	118.60
25	BB	608	A	N1-C6-N6	-26.29	102.82	118.60
3	A1	393	A	N1-C6-N6	-26.17	102.90	118.60
25	BB	2675	A	N1-C6-N6	-26.16	102.90	118.60
3	A1	640	A	N1-C6-N6	-26.11	102.93	118.60
3	A1	1377	A	N1-C6-N6	-26.10	102.94	118.60
25	BB	2059	A	N1-C6-N6	-26.01	103.00	118.60
3	A1	456	A	N1-C6-N6	-25.78	103.13	118.60
3	A1	665	A	N1-C6-N6	-25.78	103.13	118.60
25	BB	2518	A	N1-C6-N6	-25.74	103.16	118.60
25	BB	344	A	N1-C6-N6	-25.73	103.16	118.60
3	A1	975	A	N1-C6-N6	-25.66	103.20	118.60
3	A1	969	A	N1-C6-N6	-25.43	103.34	118.60
38	BO	93	ARG	NE-CZ-NH1	25.40	133.00	120.30
25	BB	2126	A	N1-C6-N6	-25.30	103.42	118.60
3	A1	1092	A	N1-C6-N6	-25.30	103.42	118.60
25	BB	1085	A	N1-C6-N6	-25.27	103.44	118.60
25	BB	2501	C	N3-C2-O2	-25.22	104.25	121.90
25	BB	311	A	N1-C6-N6	-25.19	103.49	118.60
3	A1	171	A	N1-C6-N6	-25.03	103.58	118.60
3	A1	608	A	N1-C6-N6	-24.93	103.64	118.60
25	BB	478	A	N1-C6-N6	-24.87	103.68	118.60
25	BB	480	A	N1-C6-N6	-24.82	103.71	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	183	C	N3-C4-C5	24.79	131.81	121.90
25	BB	1494	A	N1-C6-N6	-24.76	103.75	118.60
3	A1	1230	C	N3-C4-C5	24.73	131.79	121.90
25	BB	404	A	N1-C6-N6	-24.68	103.79	118.60
25	BB	1789	A	N1-C6-N6	-24.63	103.82	118.60
18	AS	53	ARG	NE-CZ-NH1	24.52	132.56	120.30
3	A1	583	A	N1-C6-N6	-24.50	103.90	118.60
25	BB	793	A	N1-C6-N6	-24.50	103.90	118.60
3	A1	1274	A	N1-C6-N6	-24.47	103.92	118.60
1	AA	14	A	N1-C6-N6	-24.43	103.94	118.60
25	BB	943	A	N1-C6-N6	-24.43	103.94	118.60
25	BB	802	A	N1-C6-N6	-24.42	103.95	118.60
25	BB	482	A	N1-C6-N6	-24.41	103.95	118.60
25	BB	2432	A	N1-C6-N6	-24.40	103.96	118.60
25	BB	2003	A	N1-C6-N6	-24.35	103.99	118.60
3	A1	864	A	N1-C6-N6	-24.33	104.00	118.60
25	BB	1700	A	N1-C6-N6	-24.28	104.03	118.60
25	BB	2014	A	N1-C6-N6	-24.14	104.11	118.60
25	BB	2430	A	N1-C6-N6	-24.10	104.14	118.60
25	BB	1046	A	N1-C6-N6	-24.09	104.14	118.60
3	A1	923	A	C5-C6-N1	23.95	129.68	117.70
3	A1	865	A	N1-C6-N6	-23.92	104.25	118.60
25	BB	1890	A	N1-C6-N6	-23.92	104.25	118.60
24	BA	66	A	N1-C6-N6	-23.92	104.25	118.60
25	BB	781	A	N1-C6-N6	-23.83	104.30	118.60
25	BB	599	A	N1-C6-N6	-23.83	104.30	118.60
25	BB	2501	C	N1-C2-O2	23.78	133.16	118.90
18	AS	67	ARG	NE-CZ-NH1	23.75	132.18	120.30
25	BB	2520	C	N3-C2-O2	-23.74	105.28	121.90
11	AJ	76	ARG	NE-CZ-NH1	23.66	132.13	120.30
25	BB	2515	C	N3-C2-O2	-23.60	105.38	121.90
3	A1	414	A	N1-C6-N6	-23.57	104.46	118.60
3	A1	1349	A	N1-C6-N6	-23.55	104.47	118.60
25	BB	1821	A	N1-C6-N6	-23.48	104.51	118.60
3	A1	1117	A	N1-C6-N6	-23.36	104.58	118.60
25	BB	1848	A	N1-C6-N6	-23.36	104.58	118.60
25	BB	631	A	N1-C6-N6	-23.35	104.59	118.60
3	A1	1333	A	N1-C6-N6	-23.29	104.62	118.60
25	BB	1090	A	N1-C6-N6	-23.29	104.63	118.60
25	BB	482	A	C5-C6-N1	23.28	129.34	117.70
3	A1	572	A	N1-C6-N6	-23.28	104.64	118.60
3	A1	640	A	C5-C6-N1	23.26	129.33	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1810	A	N1-C6-N6	-23.17	104.70	118.60
3	A1	938	A	N1-C6-N6	-23.15	104.71	118.60
3	A1	1239	A	N1-C6-N6	-23.12	104.73	118.60
25	BB	10	A	N1-C6-N6	-23.09	104.75	118.60
25	BB	965	C	N3-C4-N4	-23.05	101.86	118.00
25	BB	2826	A	N1-C6-N6	-23.03	104.78	118.60
25	BB	2725	A	N1-C6-N6	-22.96	104.82	118.60
3	A1	573	A	N1-C6-N6	-22.96	104.83	118.60
25	BB	2358	A	N1-C6-N6	-22.96	104.83	118.60
3	A1	996	A	N1-C6-N6	-22.84	104.89	118.60
25	BB	975	A	N1-C6-N6	-22.82	104.91	118.60
24	BA	66	A	C5-C6-N1	22.81	129.10	117.70
25	BB	2070	A	N1-C6-N6	-22.81	104.92	118.60
3	A1	1324	A	N1-C6-N6	-22.78	104.93	118.60
34	BK	80	ARG	NE-CZ-NH2	22.76	131.68	120.30
25	BB	2055	C	N3-C2-O2	-22.68	106.03	121.90
25	BB	1918	A	C5-C6-N1	22.62	129.01	117.70
47	BX	19	ARG	NE-CZ-NH2	22.51	131.56	120.30
25	BB	1987	A	N1-C6-N6	-22.51	105.09	118.60
3	A1	389	A	N1-C6-N6	-22.38	105.17	118.60
25	BB	37	C	N3-C4-C5	22.38	130.85	121.90
25	BB	750	A	N1-C6-N6	-22.33	105.20	118.60
25	BB	2778	A	N1-C6-N6	-22.33	105.20	118.60
25	BB	2670	A	N1-C6-N6	-22.27	105.23	118.60
3	A1	282	A	N1-C6-N6	-22.25	105.25	118.60
3	A1	1368	A	N1-C6-N6	-22.22	105.27	118.60
1	AP	31	A	O4'-C1'-N9	22.17	125.94	108.20
25	BB	582	A	N1-C6-N6	-22.17	105.30	118.60
25	BB	2199	A	C5-C6-N1	22.14	128.77	117.70
3	A1	1398	A	N1-C6-N6	-22.13	105.32	118.60
25	BB	2335	A	N1-C6-N6	-22.13	105.32	118.60
47	BX	12	ARG	NE-CZ-NH1	22.13	131.36	120.30
3	A1	470	C	N3-C4-C5	22.11	130.75	121.90
3	A1	321	A	N1-C6-N6	-22.09	105.34	118.60
20	AU	95	ARG	NE-CZ-NH1	22.09	131.34	120.30
3	A1	1000	A	N1-C6-N6	-22.09	105.35	118.60
25	BB	1987	A	C4-C5-C6	-22.09	105.96	117.00
25	BB	2267	A	N1-C6-N6	-22.09	105.35	118.60
25	BB	1522	A	N1-C6-N6	-22.07	105.36	118.60
25	BB	237	C	N3-C4-C5	22.07	130.73	121.90
3	A1	1433	A	N1-C6-N6	-22.04	105.37	118.60
3	A1	546	A	N1-C6-N6	-22.04	105.38	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	979	A	N1-C6-N6	-21.98	105.41	118.60
25	BB	1134	A	N1-C6-N6	-21.97	105.42	118.60
3	A1	1350	A	N1-C6-N6	-21.95	105.43	118.60
3	A1	1329	A	N1-C6-N6	-21.95	105.43	118.60
25	BB	1010	A	N1-C6-N6	-21.92	105.45	118.60
25	BB	1972	G	N1-C6-O6	-21.91	106.75	119.90
3	A1	728	A	N1-C6-N6	-21.88	105.47	118.60
5	AC	121	ARG	NE-CZ-NH1	21.87	131.24	120.30
25	BB	1189	A	N1-C6-N6	-21.86	105.48	118.60
25	BB	877	A	N1-C6-N6	-21.84	105.49	118.60
1	AP	9	A	N1-C6-N6	-21.84	105.50	118.60
25	BB	253	C	N3-C4-C5	21.82	130.63	121.90
3	A1	1093	A	N1-C6-N6	-21.80	105.52	118.60
25	BB	670	A	N1-C6-N6	-21.80	105.52	118.60
25	BB	2412	A	N1-C6-N6	-21.80	105.52	118.60
3	A1	1340	A	P-O3'-C3'	21.80	145.86	119.70
25	BB	1404	C	N3-C4-C5	21.80	130.62	121.90
25	BB	1153	C	N3-C4-C5	21.80	130.62	121.90
27	BD	64	ARG	NE-CZ-NH1	21.79	131.20	120.30
25	BB	2005	A	C4-C5-C6	-21.79	106.11	117.00
25	BB	936	A	N1-C6-N6	-21.75	105.55	118.60
25	BB	2820	A	C2-N3-C4	21.70	121.45	110.60
3	A1	1468	A	N1-C6-N6	-21.68	105.59	118.60
3	A1	767	A	N1-C6-N6	-21.68	105.59	118.60
3	A1	1437	A	N1-C6-N6	-21.63	105.62	118.60
25	BB	1938	A	N1-C6-N6	-21.62	105.63	118.60
25	BB	422	A	N1-C6-N6	-21.61	105.64	118.60
3	A1	1103	C	N3-C4-C5	21.54	130.51	121.90
25	BB	1793	C	N3-C2-O2	-21.50	106.85	121.90
25	BB	2887	A	N1-C6-N6	-21.46	105.72	118.60
3	A1	499	A	C4-C5-C6	-21.44	106.28	117.00
25	BB	1927	A	N1-C6-N6	-21.39	105.77	118.60
25	BB	453	A	C5-C6-N1	21.38	128.39	117.70
3	A1	681	A	N1-C6-N6	-21.38	105.77	118.60
25	BB	1528	A	N1-C6-N6	-21.34	105.80	118.60
25	BB	1705	A	N1-C6-N6	-21.32	105.81	118.60
25	BB	227	A	N1-C6-N6	-21.31	105.82	118.60
25	BB	1611	C	N3-C4-C5	21.30	130.42	121.90
25	BB	2706	A	N1-C6-N6	-21.29	105.83	118.60
3	A1	1149	C	N3-C4-C5	21.27	130.41	121.90
3	A1	1287	A	N1-C6-N6	-21.27	105.84	118.60
25	BB	1557	C	N3-C4-N4	-21.26	103.12	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	65	A	C5-C6-N1	21.24	128.32	117.70
25	BB	685	A	N1-C6-N6	-21.19	105.89	118.60
22	AW	11	ARG	NE-CZ-NH2	21.18	130.89	120.30
3	A1	356	A	N1-C6-N6	-21.13	105.92	118.60
3	A1	676	A	N1-C6-N6	-21.13	105.92	118.60
25	BB	2560	A	C5-C6-N1	21.13	128.27	117.70
3	A1	969	A	C5-C6-N1	21.13	128.26	117.70
25	BB	141	G	N1-C6-O6	-21.12	107.23	119.90
25	BB	2461	A	N1-C6-N6	-21.11	105.93	118.60
25	BB	1073	A	N1-C6-N6	-21.09	105.95	118.60
3	A1	397	A	N1-C6-N6	-21.08	105.95	118.60
25	BB	278	A	N1-C6-N6	-21.07	105.96	118.60
25	BB	1366	A	N1-C6-N6	-21.06	105.96	118.60
3	A1	236	A	N1-C6-N6	-21.06	105.96	118.60
25	BB	633	A	N1-C6-N6	-21.03	105.98	118.60
25	BB	1918	A	N1-C6-N6	-21.02	105.99	118.60
25	BB	1284	A	N1-C6-N6	-21.02	105.99	118.60
25	BB	272	A	N1-C6-N6	-20.99	106.01	118.60
3	A1	314	C	N3-C4-C5	20.98	130.29	121.90
25	BB	466	A	N1-C6-N6	-20.98	106.01	118.60
3	A1	1270	G	N1-C6-O6	-20.97	107.32	119.90
3	A1	466	A	N1-C6-N6	-20.97	106.02	118.60
24	BA	57	A	N1-C6-N6	-20.91	106.06	118.60
25	BB	2748	A	N1-C6-N6	-20.90	106.06	118.60
25	BB	2820	A	N1-C6-N6	-20.90	106.06	118.60
24	BA	73	A	N1-C6-N6	-20.85	106.09	118.60
25	BB	1838	C	N3-C2-O2	-20.82	107.33	121.90
25	BB	2587	A	N1-C6-N6	-20.77	106.14	118.60
3	A1	338	A	N1-C6-N6	-20.76	106.14	118.60
22	AW	123	ARG	NE-CZ-NH2	20.72	130.66	120.30
25	BB	1509	A	N1-C6-N6	-20.70	106.18	118.60
25	BB	718	A	N1-C6-N6	-20.70	106.18	118.60
1	AP	5	A	N1-C6-N6	-20.69	106.18	118.60
3	A1	482	A	N1-C6-N6	-20.68	106.19	118.60
25	BB	1794	A	N1-C6-N6	-20.66	106.20	118.60
25	BB	1668	A	N1-C6-N6	-20.63	106.22	118.60
3	A1	737	C	N3-C4-C5	20.62	130.15	121.90
3	A1	246	A	N1-C6-N6	-20.61	106.23	118.60
25	BB	2850	A	N1-C6-N6	-20.57	106.26	118.60
3	A1	501	C	C6-N1-C2	-20.56	112.08	120.30
25	BB	204	A	N1-C6-N6	-20.55	106.27	118.60
3	A1	382	A	N1-C6-N6	-20.52	106.29	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1941	C	N3-C4-C5	20.52	130.11	121.90
3	A1	1099	G	O4'-C1'-N9	20.52	124.62	108.20
3	A1	706	A	N1-C6-N6	-20.51	106.29	118.60
25	BB	1569	A	N1-C6-N6	-20.50	106.30	118.60
25	BB	1762	A	N1-C6-N6	-20.48	106.31	118.60
25	BB	2422	C	N3-C4-C5	20.45	130.08	121.90
6	AD	120	ARG	NE-CZ-NH1	20.44	130.52	120.30
1	AE	67	A	N1-C6-N6	-20.36	106.38	118.60
25	BB	1103	A	C5-C6-N1	20.36	127.88	117.70
25	BB	1139	G	N1-C6-O6	-20.32	107.71	119.90
25	BB	223	A	N1-C6-N6	-20.30	106.42	118.60
19	AT	79	ARG	NE-CZ-NH1	20.29	130.44	120.30
25	BB	1689	A	N1-C6-N6	-20.29	106.43	118.60
3	A1	968	A	N1-C6-N6	-20.26	106.44	118.60
25	BB	1389	G	N1-C6-O6	-20.24	107.76	119.90
25	BB	1433	A	C4-C5-C6	-20.23	106.88	117.00
3	A1	383	A	N1-C6-N6	-20.23	106.46	118.60
3	A1	729	A	N1-C6-N6	-20.22	106.47	118.60
25	BB	845	A	N1-C6-N6	-20.22	106.47	118.60
25	BB	1854	A	N1-C6-N6	-20.21	106.47	118.60
3	A1	205	A	N1-C6-N6	-20.20	106.48	118.60
25	BB	1021	A	N1-C6-N6	-20.20	106.48	118.60
25	BB	2183	A	C4-C5-C6	-20.20	106.90	117.00
3	A1	595	A	N1-C6-N6	-20.20	106.48	118.60
3	A1	630	A	C5-C6-N1	20.17	127.78	117.70
25	BB	2813	A	C4-C5-C6	-20.16	106.92	117.00
25	BB	42	A	N1-C6-N6	-20.15	106.51	118.60
25	BB	2157	G	N1-C6-O6	-20.15	107.81	119.90
4	AB	62	ARG	NE-CZ-NH1	20.15	130.37	120.30
25	BB	1583	A	N1-C6-N6	-20.12	106.53	118.60
23	AX	62	ARG	NE-CZ-NH1	20.12	130.36	120.30
25	BB	583	G	N9-C4-C5	20.11	113.45	105.40
25	BB	910	A	N1-C6-N6	-20.09	106.55	118.60
25	BB	2059	A	C5-C6-N1	20.09	127.74	117.70
3	A1	1311	A	N1-C6-N6	-20.08	106.55	118.60
17	AR	69	ARG	NE-CZ-NH1	20.08	130.34	120.30
24	BA	38	C	N3-C4-N4	-20.08	103.95	118.00
25	BB	2183	A	C5-C6-N1	20.06	127.73	117.70
3	A1	373	A	N1-C6-N6	-20.06	106.57	118.60
8	AG	64	ARG	NE-CZ-NH1	20.05	130.33	120.30
3	A1	1499	A	N1-C2-N3	-20.05	119.28	129.30
25	BB	2886	A	N1-C6-N6	-20.03	106.58	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	575	A	N1-C6-N6	-20.03	106.58	118.60
25	BB	1525	A	N1-C6-N6	-20.02	106.59	118.60
9	AH	63	ARG	NE-CZ-NH1	20.00	130.30	120.30
25	BB	2619	C	N1-C2-O2	19.98	130.89	118.90
28	BE	60	ARG	NE-CZ-NH1	19.98	130.29	120.30
25	BB	196	A	N1-C6-N6	-19.95	106.63	118.60
25	BB	2388	A	N1-C6-N6	-19.94	106.64	118.60
25	BB	2135	A	N1-C6-N6	-19.90	106.66	118.60
25	BB	936	A	C5-C6-N1	19.87	127.64	117.70
24	BA	53	A	N1-C6-N6	-19.87	106.68	118.60
3	A1	782	A	N1-C6-N6	-19.85	106.69	118.60
25	BB	1809	A	C5-C6-N1	19.84	127.62	117.70
10	AI	31	ARG	NE-CZ-NH1	19.81	130.21	120.30
25	BB	2287	A	N1-C6-N6	-19.80	106.72	118.60
25	BB	330	A	N1-C6-N6	-19.78	106.73	118.60
25	BB	1194	A	N1-C6-N6	-19.77	106.74	118.60
25	BB	941	A	N1-C6-N6	-19.76	106.74	118.60
3	A1	238	A	N1-C6-N6	-19.74	106.75	118.60
3	A1	806	C	N3-C4-C5	19.73	129.79	121.90
3	A1	411	A	N1-C6-N6	-19.72	106.77	118.60
3	A1	155	A	C4-C5-C6	-19.70	107.15	117.00
25	BB	1354	A	N1-C2-N3	-19.68	119.46	129.30
1	AP	58	A	N1-C6-N6	-19.65	106.81	118.60
25	BB	2206	C	N3-C4-C5	19.64	129.76	121.90
25	BB	1552	A	C5-C6-N1	19.64	127.52	117.70
25	BB	1690	A	N1-C6-N6	-19.64	106.82	118.60
25	BB	1801	A	N1-C6-N6	-19.63	106.82	118.60
25	BB	2095	A	N1-C6-N6	-19.62	106.83	118.60
25	BB	1953	A	N1-C6-N6	-19.62	106.83	118.60
25	BB	2013	A	N1-C6-N6	-19.61	106.83	118.60
25	BB	1773	A	N9-C4-C5	19.60	113.64	105.80
21	AV	113	ARG	NE-CZ-NH1	19.59	130.09	120.30
3	A1	1155	A	N1-C6-N6	-19.58	106.85	118.60
25	BB	89	A	C5-C6-N1	19.57	127.49	117.70
25	BB	2406	A	N1-C6-N6	-19.55	106.87	118.60
1	AA	74	C	O4'-C1'-N1	19.54	123.83	108.20
3	A1	1275	A	N1-C6-N6	-19.53	106.88	118.60
3	A1	975	A	C5-C6-N1	19.52	127.46	117.70
3	A1	1102	A	C5-C6-N1	19.51	127.46	117.70
25	BB	529	A	N1-C6-N6	-19.50	106.90	118.60
6	AD	82	ARG	NE-CZ-NH1	19.49	130.05	120.30
3	A1	119	A	N1-C6-N6	-19.49	106.90	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	688	G	N1-C6-O6	-19.49	108.21	119.90
25	BB	1630	A	N1-C2-N3	-19.49	119.56	129.30
25	BB	933	A	N1-C6-N6	-19.48	106.91	118.60
1	AP	27	C	N3-C4-C5	19.48	129.69	121.90
25	BB	1634	A	N9-C4-C5	19.48	113.59	105.80
3	A1	1508	A	N1-C6-N6	-19.45	106.93	118.60
3	A1	498	A	N1-C6-N6	-19.45	106.93	118.60
3	A1	914	A	N1-C6-N6	-19.44	106.94	118.60
25	BB	1502	A	N1-C6-N6	-19.44	106.94	118.60
22	AW	17	ARG	NE-CZ-NH1	19.44	130.02	120.30
3	A1	499	A	C5-C6-N1	19.43	127.41	117.70
25	BB	2893	A	N1-C6-N6	-19.41	106.95	118.60
3	A1	1252	A	N1-C6-N6	-19.39	106.96	118.60
25	BB	352	A	N1-C6-N6	-19.39	106.97	118.60
25	BB	1552	A	N1-C6-N6	-19.35	106.99	118.60
25	BB	2352	A	N1-C6-N6	-19.34	106.99	118.60
25	BB	300	A	N1-C6-N6	-19.34	107.00	118.60
3	A1	1021	A	N1-C6-N6	-19.32	107.01	118.60
25	BB	1927	A	C4-C5-C6	-19.31	107.35	117.00
25	BB	911	A	C5-C6-N1	19.30	127.35	117.70
25	BB	1276	A	N1-C6-N6	-19.30	107.02	118.60
25	BB	1610	A	N1-C6-N6	-19.29	107.02	118.60
25	BB	911	A	N1-C6-N6	-19.29	107.03	118.60
3	A1	975	A	C4-C5-C6	-19.27	107.36	117.00
25	BB	2515	C	C2-N3-C4	-19.27	110.26	119.90
3	A1	1226	C	C6-N1-C2	-19.26	112.59	120.30
3	A1	1225	A	N1-C6-N6	-19.25	107.05	118.60
25	BB	379	G	N1-C6-O6	-19.24	108.36	119.90
3	A1	267	C	N1-C2-O2	19.23	130.44	118.90
24	BA	94	A	C4-C5-C6	-19.21	107.39	117.00
25	BB	1630	A	C4-C5-C6	-19.20	107.40	117.00
25	BB	739	A	N1-C6-N6	-19.20	107.08	118.60
25	BB	666	A	N1-C6-N6	-19.20	107.08	118.60
3	A1	706	A	C5-C6-N1	19.19	127.30	117.70
25	BB	199	A	N1-C6-N6	-19.19	107.09	118.60
25	BB	671	C	N3-C4-C5	19.19	129.57	121.90
25	BB	1786	A	N1-C6-N6	-19.18	107.09	118.60
24	BA	109	A	N1-C6-N6	-19.17	107.10	118.60
25	BB	1213	A	N1-C6-N6	-19.17	107.10	118.60
25	BB	2398	U	C5-C6-N1	-19.16	113.12	122.70
3	A1	696	A	N1-C6-N6	-19.15	107.11	118.60
3	A1	1269	A	N1-C6-N6	-19.14	107.11	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	908	A	N1-C6-N6	-19.13	107.12	118.60
22	AW	79	ARG	NE-CZ-NH1	19.13	129.86	120.30
25	BB	2566	A	N1-C6-N6	-19.13	107.12	118.60
25	BB	526	A	N1-C6-N6	-19.12	107.13	118.60
25	BB	2900	A	N1-C6-N6	-19.12	107.13	118.60
3	A1	65	A	C4-C5-C6	-19.10	107.45	117.00
48	BY	169	ARG	NE-CZ-NH1	19.10	129.85	120.30
3	A1	845	A	N1-C6-N6	-19.08	107.15	118.60
3	A1	396	C	N3-C4-C5	19.07	129.53	121.90
25	BB	2835	A	N1-C6-N6	-19.07	107.16	118.60
3	A1	914	A	C4-C5-C6	-19.04	107.48	117.00
3	A1	959	A	N1-C6-N6	-19.04	107.18	118.60
25	BB	497	A	N1-C6-N6	-19.03	107.18	118.60
3	A1	51	A	N1-C6-N6	-19.03	107.19	118.60
25	BB	2675	A	C5-C6-N1	18.99	127.20	117.70
45	BV	33	ARG	NE-CZ-NH1	18.99	129.79	120.30
25	BB	2333	A	N1-C6-N6	-18.98	107.21	118.60
25	BB	2471	A	C4-C5-C6	-18.97	107.51	117.00
54	B5	126	ARG	NE-CZ-NH2	-18.97	110.81	120.30
25	BB	1014	A	N1-C6-N6	-18.96	107.22	118.60
25	BB	1431	A	N1-C6-N6	-18.96	107.22	118.60
3	A1	1221	G	C5-C6-N1	18.96	120.98	111.50
3	A1	246	A	C5-C6-N1	18.95	127.18	117.70
25	BB	64	A	N1-C6-N6	-18.95	107.23	118.60
25	BB	2726	A	N1-C6-N6	-18.95	107.23	118.60
3	A1	1042	A	N1-C6-N6	-18.94	107.24	118.60
25	BB	2213	U	C5-C6-N1	-18.93	113.23	122.70
3	A1	1456	A	C4-C5-C6	-18.92	107.54	117.00
25	BB	1739	A	N1-C6-N6	-18.92	107.25	118.60
25	BB	1889	A	N1-C6-N6	-18.91	107.25	118.60
25	BB	2158	A	N1-C6-N6	-18.89	107.27	118.60
3	A1	596	A	N1-C6-N6	-18.88	107.27	118.60
25	BB	1383	A	N1-C6-N6	-18.84	107.30	118.60
1	AE	76	A	N1-C6-N6	-18.83	107.30	118.60
3	A1	155	A	C5-C6-N1	18.82	127.11	117.70
25	BB	1503	A	N1-C6-N6	-18.82	107.31	118.60
25	BB	2702	G	N1-C6-O6	-18.82	108.61	119.90
25	BB	2813	A	N1-C6-N6	-18.82	107.31	118.60
3	A1	209	U	N3-C2-O2	-18.78	109.05	122.20
3	A1	44	A	N1-C6-N6	-18.77	107.34	118.60
3	A1	946	A	N1-C6-N6	-18.77	107.34	118.60
25	BB	324	A	N1-C6-N6	-18.77	107.34	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	182	A	N1-C6-N6	-18.76	107.34	118.60
25	BB	2134	A	N1-C6-N6	-18.75	107.35	118.60
25	BB	1808	A	N1-C6-N6	-18.74	107.36	118.60
25	BB	2614	A	N1-C6-N6	-18.74	107.36	118.60
3	A1	1350	A	C4-C5-C6	-18.73	107.64	117.00
25	BB	780	G	N7-C8-N9	18.72	122.46	113.10
3	A1	71	A	N1-C6-N6	-18.71	107.37	118.60
25	BB	1001	A	N1-C6-N6	-18.71	107.38	118.60
25	BB	968	C	C2-N3-C4	-18.70	110.55	119.90
27	BD	78	ARG	NE-CZ-NH1	18.68	129.64	120.30
25	BB	1749	A	N1-C6-N6	-18.68	107.39	118.60
25	BB	74	A	N1-C6-N6	-18.67	107.40	118.60
25	BB	2425	A	C5-C6-N1	18.67	127.03	117.70
25	BB	1510	G	N1-C6-O6	-18.65	108.71	119.90
25	BB	1932	A	N1-C6-N6	-18.65	107.41	118.60
3	A1	1102	A	N1-C6-N6	-18.65	107.41	118.60
25	BB	502	A	C4-C5-C6	-18.64	107.68	117.00
3	A1	1282	C	C6-N1-C2	-18.63	112.85	120.30
25	BB	1638	C	C5-C6-N1	-18.63	111.68	121.00
3	A1	1430	A	N1-C6-N6	-18.63	107.42	118.60
25	BB	38	A	N1-C6-N6	-18.61	107.44	118.60
25	BB	1928	A	C5-C6-N1	18.59	127.00	117.70
25	BB	1817	G	N3-C2-N2	-18.59	106.89	119.90
3	A1	650	G	N1-C6-O6	-18.58	108.75	119.90
3	A1	1004	A	N1-C6-N6	-18.57	107.46	118.60
11	AJ	64	ARG	NE-CZ-NH1	18.57	129.58	120.30
3	A1	1483	A	C5-C6-N1	18.55	126.97	117.70
3	A1	253	A	N1-C6-N6	-18.53	107.48	118.60
25	BB	2054	A	N1-C6-N6	-18.53	107.48	118.60
1	AA	73	A	N1-C6-N6	-18.52	107.48	118.60
3	A1	815	A	N1-C6-N6	-18.51	107.49	118.60
25	BB	947	A	N1-C6-N6	-18.50	107.50	118.60
25	BB	1936	A	C4-C5-C6	-18.50	107.75	117.00
3	A1	172	A	N1-C6-N6	-18.49	107.51	118.60
25	BB	2425	A	N1-C6-N6	-18.49	107.51	118.60
25	BB	909	A	C4-C5-C6	-18.49	107.75	117.00
25	BB	309	A	N1-C6-N6	-18.49	107.51	118.60
25	BB	1395	A	N1-C6-N6	-18.48	107.51	118.60
25	BB	2065	C	N3-C4-C5	18.48	129.29	121.90
25	BB	91	A	N1-C6-N6	-18.48	107.51	118.60
25	BB	1603	A	C4-C5-C6	-18.47	107.77	117.00
25	BB	2278	A	N1-C6-N6	-18.47	107.52	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1847	A	N1-C2-N3	-18.47	120.07	129.30
25	BB	1514	G	N1-C6-O6	-18.46	108.82	119.90
25	BB	1695	G	N1-C6-O6	-18.46	108.82	119.90
25	BB	352	A	C5-C6-N1	18.45	126.92	117.70
25	BB	1982	U	N3-C2-O2	-18.45	109.28	122.20
3	A1	784	A	N1-C6-N6	-18.43	107.54	118.60
3	A1	621	A	N1-C6-N6	-18.42	107.55	118.60
25	BB	2738	A	N1-C6-N6	-18.42	107.55	118.60
3	A1	242	G	N1-C6-O6	-18.40	108.86	119.90
3	A1	1324	A	C5-C6-N1	18.39	126.89	117.70
32	BI	20	ARG	NE-CZ-NH2	18.39	129.49	120.30
25	BB	2327	A	N1-C6-N6	-18.38	107.57	118.60
25	BB	207	A	N1-C6-N6	-18.38	107.57	118.60
25	BB	1439	A	N1-C6-N6	-18.38	107.57	118.60
1	AP	58	A	C4-C5-C6	-18.38	107.81	117.00
25	BB	2190	G	N1-C6-O6	-18.38	108.87	119.90
3	A1	131	A	N1-C6-N6	-18.38	107.58	118.60
50	B1	61	ARG	NE-CZ-NH1	18.38	129.49	120.30
25	BB	2625	G	C5-N7-C8	-18.37	95.11	104.30
25	BB	1221	C	N3-C4-C5	18.37	129.25	121.90
3	A1	510	A	C1'-O4'-C4'	-18.36	95.22	109.90
24	BA	43	C	N3-C2-O2	-18.34	109.06	121.90
25	BB	642	U	N3-C2-O2	-18.34	109.36	122.20
25	BB	322	A	N1-C6-N6	-18.32	107.61	118.60
3	A1	914	A	C5-C6-N1	18.32	126.86	117.70
25	BB	1928	A	N1-C6-N6	-18.31	107.61	118.60
25	BB	2560	A	N1-C6-N6	-18.31	107.61	118.60
25	BB	1925	C	N3-C4-C5	18.31	129.22	121.90
25	BB	251	A	C4-C5-C6	-18.29	107.86	117.00
3	A1	1053	G	N9-C4-C5	18.28	112.71	105.40
25	BB	2758	A	N1-C6-N6	-18.28	107.63	118.60
3	A1	1441	A	N1-C6-N6	-18.26	107.64	118.60
30	BG	2	ARG	NE-CZ-NH1	18.25	129.43	120.30
25	BB	2461	A	C5-C6-N1	18.24	126.82	117.70
25	BB	1722	A	C5-C6-N1	18.18	126.79	117.70
3	A1	907	A	N1-C6-N6	-18.18	107.69	118.60
3	A1	1513	A	N1-C6-N6	-18.17	107.70	118.60
25	BB	681	G	N9-C4-C5	18.17	112.67	105.40
25	BB	2020	A	N1-C6-N6	-18.16	107.70	118.60
3	A1	1394	A	N1-C6-N6	-18.16	107.70	118.60
25	BB	1987	A	C5-C6-N1	18.16	126.78	117.70
25	BB	279	A	N1-C6-N6	-18.16	107.71	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	344	A	C5-C6-N1	18.15	126.78	117.70
25	BB	780	G	C8-N9-C4	-18.15	99.14	106.40
25	BB	1377	G	N9-C4-C5	18.14	112.66	105.40
20	AU	2	ARG	NE-CZ-NH1	18.13	129.37	120.30
25	BB	1978	A	N1-C6-N6	-18.13	107.72	118.60
55	B6	31	GLU	OE1-CD-OE2	-18.12	101.56	123.30
25	BB	1544	A	N1-C6-N6	-18.11	107.73	118.60
3	A1	322	C	N3-C4-C5	18.11	129.14	121.90
3	A1	1483	A	N1-C6-N6	-18.11	107.74	118.60
3	A1	1101	A	N1-C6-N6	-18.10	107.74	118.60
3	A1	510	A	N1-C6-N6	-18.10	107.74	118.60
3	A1	1227	A	N1-C6-N6	-18.10	107.74	118.60
3	A1	1289	A	N1-C6-N6	-18.10	107.74	118.60
25	BB	1491	G	N9-C4-C5	18.09	112.64	105.40
3	A1	1196	A	N1-C2-N3	-18.09	120.25	129.30
52	B3	54	ARG	NE-CZ-NH1	18.09	129.34	120.30
33	BJ	54	ARG	NE-CZ-NH2	18.08	129.34	120.30
3	A1	65	A	N1-C6-N6	-18.07	107.76	118.60
1	AE	31	A	N1-C6-N6	-18.06	107.77	118.60
25	BB	2071	A	N1-C6-N6	-18.06	107.77	118.60
3	A1	706	A	C4-C5-C6	-18.04	107.98	117.00
3	A1	1150	A	N1-C6-N6	-18.04	107.78	118.60
25	BB	457	A	N1-C6-N6	-18.04	107.78	118.60
25	BB	6	A	C4-C5-C6	-18.02	107.99	117.00
25	BB	167	A	N1-C6-N6	-18.01	107.80	118.60
25	BB	2543	G	O4'-C1'-N9	18.00	122.60	108.20
24	BA	115	A	N1-C6-N6	-18.00	107.80	118.60
25	BB	483	A	N1-C6-N6	-17.99	107.81	118.60
1	AA	30	G	C8-N9-C4	-17.99	99.20	106.40
25	BB	2702	G	C8-N9-C4	-17.99	99.21	106.40
25	BB	1029	A	N1-C6-N6	-17.98	107.81	118.60
25	BB	1137	G	N1-C6-O6	-17.98	109.11	119.90
3	A1	1429	A	N1-C6-N6	-17.97	107.82	118.60
25	BB	800	A	N1-C6-N6	-17.97	107.82	118.60
23	AX	5	ARG	NE-CZ-NH1	17.96	129.28	120.30
25	BB	118	A	N1-C6-N6	-17.95	107.83	118.60
1	AA	29	A	C5-C6-N1	17.94	126.67	117.70
25	BB	299	A	N1-C6-N6	-17.94	107.84	118.60
25	BB	643	A	N1-C6-N6	-17.94	107.84	118.60
25	BB	1528	A	C5-C6-N1	17.94	126.67	117.70
3	A1	306	A	N1-C6-N6	-17.93	107.84	118.60
25	BB	1746	A	N1-C6-N6	-17.93	107.84	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1821	A	C5-C6-N1	17.92	126.66	117.70
3	A1	151	A	C5-C6-N1	17.91	126.66	117.70
25	BB	614	A	N1-C6-N6	-17.91	107.85	118.60
24	BA	42	C	N3-C4-N4	-17.91	105.46	118.00
25	BB	119	A	N1-C6-N6	-17.91	107.86	118.60
25	BB	2413	G	N3-C4-C5	-17.90	119.65	128.60
1	AA	17	U	C5'-C4'-O4'	17.89	130.57	109.10
3	A1	949	A	C5-C6-N1	17.89	126.64	117.70
25	BB	1453	A	N1-C6-N6	-17.88	107.87	118.60
1	AE	64	A	N1-C6-N6	-17.88	107.87	118.60
25	BB	13	A	N1-C6-N6	-17.88	107.87	118.60
25	BB	1387	A	N1-C6-N6	-17.88	107.87	118.60
25	BB	1446	C	N3-C4-C5	17.87	129.05	121.90
25	BB	2284	A	N1-C6-N6	-17.86	107.88	118.60
25	BB	1701	A	N1-C2-N3	-17.85	120.38	129.30
25	BB	1878	G	C8-N9-C4	-17.85	99.26	106.40
25	BB	2471	A	C5-C6-N1	17.84	126.62	117.70
25	BB	2377	A	N1-C6-N6	-17.84	107.89	118.60
25	BB	1953	A	C4-C5-C6	-17.84	108.08	117.00
25	BB	2160	C	N3-C4-N4	-17.84	105.52	118.00
25	BB	1347	A	N1-C6-N6	-17.83	107.90	118.60
25	BB	1552	A	C6-N1-C2	-17.83	107.90	118.60
3	A1	415	A	N1-C6-N6	-17.82	107.91	118.60
25	BB	2499	C	O4'-C1'-N1	17.82	122.46	108.20
3	A1	1102	A	C4-C5-C6	-17.81	108.09	117.00
3	A1	1418	A	N1-C6-N6	-17.80	107.92	118.60
25	BB	423	A	N1-C6-N6	-17.80	107.92	118.60
1	AP	38	A	N1-C6-N6	-17.80	107.92	118.60
3	A1	554	A	N1-C6-N6	-17.79	107.93	118.60
25	BB	876	C	N3-C4-C5	17.79	129.02	121.90
25	BB	2386	A	N1-C6-N6	-17.79	107.93	118.60
25	BB	1960	A	N1-C6-N6	-17.79	107.93	118.60
25	BB	975	A	C5-C6-N1	17.78	126.59	117.70
25	BB	502	A	C5-C6-N1	17.77	126.59	117.70
25	BB	756	A	C4-C5-C6	-17.77	108.12	117.00
3	A1	710	G	N7-C8-N9	17.76	121.98	113.10
25	BB	1367	A	C4-C5-C6	-17.76	108.12	117.00
1	AA	39	U	C2-N3-C4	-17.76	116.34	127.00
3	A1	61	G	N1-C6-O6	-17.74	109.26	119.90
25	BB	397	U	N3-C2-O2	-17.73	109.79	122.20
3	A1	1046	A	C5-C6-N1	17.73	126.56	117.70
25	BB	1590	A	C4-C5-C6	-17.72	108.14	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2327	A	C5-C6-N1	17.72	126.56	117.70
3	A1	1014	A	N1-C6-N6	-17.71	107.97	118.60
25	BB	1261	C	N1-C2-O2	17.71	129.53	118.90
25	BB	2577	A	N1-C6-N6	-17.70	107.98	118.60
25	BB	781	A	C5-C6-N1	17.70	126.55	117.70
45	BV	35	ARG	NE-CZ-NH1	17.70	129.15	120.30
25	BB	149	A	N1-C6-N6	-17.70	107.98	118.60
25	BB	2510	C	N3-C4-C5	17.69	128.98	121.90
25	BB	1572	A	N1-C2-N3	-17.69	120.45	129.30
25	BB	900	A	N1-C6-N6	-17.68	107.99	118.60
25	BB	1571	A	N1-C6-N6	-17.68	107.99	118.60
3	A1	475	C	C2-N3-C4	-17.68	111.06	119.90
3	A1	906	A	C5-C6-N1	17.68	126.54	117.70
3	A1	456	A	C5-C6-N1	17.67	126.54	117.70
25	BB	751	A	N1-C6-N6	-17.67	108.00	118.60
3	A1	321	A	C5-C6-N1	17.67	126.53	117.70
3	A1	713	G	N1-C6-O6	-17.66	109.31	119.90
25	BB	1433	A	C5-C6-N1	17.66	126.53	117.70
25	BB	1805	A	C2-N3-C4	17.66	119.43	110.60
25	BB	1261	C	N3-C4-C5	17.65	128.96	121.90
25	BB	1496	A	N1-C6-N6	-17.64	108.02	118.60
3	A1	160	A	N1-C6-N6	-17.64	108.02	118.60
25	BB	2008	C	N3-C4-C5	17.63	128.95	121.90
3	A1	865	A	C4-C5-C6	-17.62	108.19	117.00
3	A1	1054	C	N3-C2-O2	-17.61	109.57	121.90
3	A1	58	C	C4-C5-C6	-17.61	108.60	117.40
25	BB	1342	A	N1-C6-N6	-17.60	108.04	118.60
25	BB	911	A	C5-N7-C8	-17.59	95.11	103.90
25	BB	672	C	N3-C2-O2	-17.57	109.60	121.90
1	AA	29	A	N1-C6-N6	-17.56	108.06	118.60
25	BB	532	A	N1-C6-N6	-17.56	108.06	118.60
25	BB	673	C	N3-C4-C5	17.53	128.91	121.90
3	A1	1046	A	N1-C6-N6	-17.53	108.08	118.60
3	A1	539	A	N1-C6-N6	-17.52	108.09	118.60
24	BA	66	A	O4'-C1'-N9	17.52	122.22	108.20
20	AU	69	ARG	NE-CZ-NH1	17.52	129.06	120.30
3	A1	903	G	N1-C6-O6	-17.52	109.39	119.90
25	BB	2058	A	C5-C6-N1	17.50	126.45	117.70
3	A1	1479	C	C6-N1-C2	-17.49	113.30	120.30
25	BB	1345	C	N3-C2-O2	-17.49	109.66	121.90
25	BB	2471	A	N1-C6-N6	-17.49	108.10	118.60
3	A1	968	A	C5-C6-N1	17.49	126.44	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1772	A	N1-C6-N6	-17.48	108.11	118.60
25	BB	2023	C	N3-C2-O2	-17.47	109.67	121.90
25	BB	1819	A	C5-C6-N1	17.46	126.43	117.70
3	A1	915	A	N1-C6-N6	-17.46	108.12	118.60
25	BB	2863	C	N3-C4-C5	17.46	128.88	121.90
3	A1	712	A	N1-C6-N6	-17.45	108.13	118.60
25	BB	682	G	C4-C5-N7	-17.45	103.82	110.80
3	A1	663	A	N1-C6-N6	-17.45	108.13	118.60
3	A1	1239	A	C5-C6-N1	17.45	126.42	117.70
25	BB	590	A	N1-C6-N6	-17.44	108.13	118.60
3	A1	1195	C	N3-C4-C5	17.44	128.88	121.90
3	A1	1256	A	C5-C6-N6	17.44	137.65	123.70
3	A1	1250	A	O4'-C1'-N9	17.43	122.14	108.20
25	BB	2409	G	C5-C6-N1	17.43	120.22	111.50
25	BB	2802	G	N3-C2-N2	-17.43	107.70	119.90
3	A1	1397	C	N3-C2-O2	-17.42	109.70	121.90
3	A1	215	C	C5-C6-N1	-17.42	112.29	121.00
25	BB	1028	A	C5-C6-N1	17.41	126.41	117.70
25	BB	2738	A	C5-C6-N1	17.41	126.40	117.70
25	BB	2269	G	N1-C6-O6	-17.40	109.46	119.90
42	BS	11	GLU	OE1-CD-OE2	-17.40	102.42	123.30
3	A1	1456	A	C5-C6-N1	17.40	126.40	117.70
25	BB	1634	A	N1-C6-N6	-17.39	108.16	118.60
3	A1	743	A	N1-C6-N6	-17.39	108.17	118.60
25	BB	249	C	N3-C4-C5	17.38	128.85	121.90
24	BA	27	C	N1-C2-O2	17.38	129.33	118.90
25	BB	2064	C	N3-C2-O2	-17.38	109.74	121.90
25	BB	2030	A	N1-C6-N6	-17.37	108.18	118.60
3	A1	115	G	O4'-C1'-N9	17.36	122.09	108.20
25	BB	1370	C	N3-C4-N4	-17.36	105.85	118.00
25	BB	804	A	N1-C6-N6	-17.36	108.18	118.60
25	BB	2459	A	N1-C6-N6	-17.36	108.18	118.60
25	BB	1532	A	C5-C6-N1	17.36	126.38	117.70
8	AG	60	ARG	NE-CZ-NH1	17.36	128.98	120.30
3	A1	665	A	C5-C6-N1	17.35	126.38	117.70
25	BB	2227	A	N1-C6-N6	-17.35	108.19	118.60
3	A1	247	G	N1-C6-O6	-17.34	109.49	119.90
25	BB	1825	U	O4'-C1'-N1	17.34	122.07	108.20
25	BB	2274	A	N1-C6-N6	-17.33	108.20	118.60
25	BB	722	A	N1-C6-N6	-17.33	108.20	118.60
25	BB	1244	A	N1-C6-N6	-17.32	108.21	118.60
25	BB	2462	C	N3-C2-O2	-17.32	109.78	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1175	A	N1-C6-N6	-17.32	108.21	118.60
3	A1	856	C	N3-C4-C5	17.32	128.83	121.90
25	BB	1593	A	N1-C6-N6	-17.32	108.21	118.60
25	BB	468	G	N1-C6-O6	-17.30	109.52	119.90
3	A1	642	A	C5-C6-N1	17.29	126.35	117.70
25	BB	1722	A	N1-C6-N6	-17.29	108.22	118.60
25	BB	772	C	O4'-C1'-N1	17.29	122.03	108.20
25	BB	2654	A	N1-C6-N6	-17.28	108.23	118.60
1	AP	37	G	O4'-C1'-N9	17.27	122.01	108.20
25	BB	1073	A	C4-C5-C6	-17.27	108.37	117.00
25	BB	492	A	N1-C6-N6	-17.27	108.24	118.60
3	A1	718	A	N1-C6-N6	-17.26	108.24	118.60
25	BB	820	A	N1-C6-N6	-17.26	108.24	118.60
3	A1	766	A	N1-C6-N6	-17.25	108.25	118.60
3	A1	1180	A	N1-C6-N6	-17.25	108.25	118.60
25	BB	1090	A	C5-C6-N1	17.25	126.33	117.70
1	AP	14	A	N1-C6-N6	-17.25	108.25	118.60
3	A1	919	A	N1-C2-N3	-17.24	120.68	129.30
25	BB	1810	A	C5-C6-N1	17.24	126.32	117.70
25	BB	2377	A	C5-C6-N1	17.23	126.31	117.70
3	A1	1050	G	N7-C8-N9	17.23	121.72	113.10
3	A1	968	A	C4-C5-C6	-17.22	108.39	117.00
3	A1	259	G	N3-C4-C5	-17.22	119.99	128.60
3	A1	247	G	C5-C6-O6	17.21	138.93	128.60
3	A1	1042	A	C5-C6-N1	17.21	126.31	117.70
25	BB	1994	C	N3-C4-C5	17.21	128.78	121.90
9	AH	62	ARG	NE-CZ-NH1	17.20	128.90	120.30
25	BB	1641	A	N1-C6-N6	-17.20	108.28	118.60
25	BB	1901	A	N1-C6-N6	-17.20	108.28	118.60
25	BB	2031	A	N1-C6-N6	-17.20	108.28	118.60
25	BB	2432	A	C5-C6-N1	17.19	126.30	117.70
3	A1	1110	A	N1-C2-N3	-17.19	120.70	129.30
3	A1	430	A	N1-C6-N6	-17.19	108.29	118.60
25	BB	2461	A	C4-C5-C6	-17.18	108.41	117.00
25	BB	332	A	C4-C5-C6	-17.18	108.41	117.00
25	BB	2407	A	N1-C6-N6	-17.17	108.30	118.60
35	BL	18	ARG	NE-CZ-NH2	-17.17	111.71	120.30
3	A1	1434	A	N1-C6-N6	-17.16	108.30	118.60
3	A1	1208	C	C2-N3-C4	-17.16	111.32	119.90
25	BB	965	C	C5-C4-N4	17.16	132.21	120.20
25	BB	560	C	N3-C4-C5	17.16	128.76	121.90
3	A1	1026	G	N3-C4-C5	-17.15	120.03	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1998	A	C5-C6-N1	17.14	126.27	117.70
22	AW	6	TYR	CB-CG-CD2	-17.14	110.71	121.00
3	A1	59	A	N1-C6-N6	-17.14	108.32	118.60
3	A1	1016	A	N1-C6-N6	-17.14	108.32	118.60
25	BB	968	C	N3-C2-O2	-17.14	109.91	121.90
3	A1	1499	A	C2-N3-C4	17.13	119.17	110.60
25	BB	2679	A	C4-C5-C6	-17.13	108.43	117.00
25	BB	1230	A	C4-C5-C6	-17.13	108.44	117.00
25	BB	436	C	N3-C4-C5	17.12	128.75	121.90
25	BB	951	C	N3-C2-O2	-17.12	109.92	121.90
25	BB	687	C	N3-C2-O2	-17.11	109.92	121.90
25	BB	2440	C	N3-C4-C5	17.11	128.75	121.90
24	BA	59	A	N1-C6-N6	-17.11	108.34	118.60
25	BB	38	A	C5-C6-N1	17.10	126.25	117.70
25	BB	945	A	O4'-C1'-N9	17.10	121.88	108.20
25	BB	1381	G	C6-C5-N7	17.10	140.66	130.40
3	A1	1213	A	N1-C6-N6	-17.10	108.34	118.60
25	BB	152	A	N1-C6-N6	-17.09	108.35	118.60
25	BB	510	C	C6-N1-C2	-17.09	113.47	120.30
3	A1	1423	G	N3-C4-C5	-17.08	120.06	128.60
25	BB	833	A	N1-C6-N6	-17.08	108.35	118.60
25	BB	2712	C	N3-C4-C5	17.08	128.73	121.90
25	BB	531	C	N3-C4-N4	-17.08	106.05	118.00
7	AF	92	ARG	NE-CZ-NH1	17.08	128.84	120.30
25	BB	2102	G	C5-C6-N1	17.07	120.03	111.50
25	BB	925	A	N1-C6-N6	-17.06	108.36	118.60
25	BB	2248	C	N3-C4-C5	17.06	128.72	121.90
25	BB	1308	A	N1-C6-N6	-17.05	108.37	118.60
25	BB	2241	A	N1-C6-N6	-17.05	108.37	118.60
3	A1	1501	C	N3-C2-O2	-17.04	109.97	121.90
25	BB	2893	A	C5-C6-N1	17.04	126.22	117.70
25	BB	1889	A	C5-C6-N1	17.02	126.21	117.70
25	BB	89	A	N1-C6-N6	-17.02	108.39	118.60
25	BB	497	A	C5-C6-N1	17.02	126.21	117.70
3	A1	737	C	N3-C2-O2	-17.01	109.99	121.90
25	BB	2852	G	N3-C2-N2	-17.01	107.99	119.90
25	BB	787	C	N3-C4-C5	17.01	128.70	121.90
25	BB	2749	A	N1-C6-N6	-17.00	108.40	118.60
25	BB	2764	A	N1-C6-N6	-17.00	108.40	118.60
3	A1	1364	U	N3-C2-O2	-17.00	110.30	122.20
25	BB	972	A	C5-C6-N1	17.00	126.20	117.70
32	BI	102	ARG	NE-CZ-NH1	17.00	128.80	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	608	A	C5-C6-N1	16.99	126.20	117.70
3	A1	141	G	C2-N3-C4	16.98	120.39	111.90
22	AW	44	ARG	NE-CZ-NH1	16.98	128.79	120.30
24	BA	81	G	C8-N9-C4	-16.98	99.61	106.40
3	A1	974	A	C4-C5-C6	-16.98	108.51	117.00
3	A1	288	A	N1-C6-N6	-16.97	108.42	118.60
3	A1	1105	A	N1-C6-N6	-16.97	108.42	118.60
3	A1	949	A	N1-C6-N6	-16.97	108.42	118.60
1	AP	73	A	N1-C6-N6	-16.96	108.42	118.60
25	BB	1030	C	N3-C4-C5	16.96	128.69	121.90
25	BB	2772	C	N3-C2-O2	-16.95	110.04	121.90
25	BB	436	C	C2-N3-C4	-16.95	111.43	119.90
3	A1	149	A	N1-C6-N6	-16.95	108.43	118.60
25	BB	1086	A	N1-C6-N6	-16.94	108.44	118.60
25	BB	685	A	C5-C6-N1	16.93	126.17	117.70
25	BB	2670	A	C5-C6-N1	16.93	126.17	117.70
3	A1	371	A	N9-C4-C5	16.93	112.57	105.80
3	A1	355	C	N3-C4-C5	16.93	128.67	121.90
3	A1	267	C	N3-C2-O2	-16.92	110.06	121.90
3	A1	1363	A	N1-C6-N6	-16.92	108.45	118.60
25	BB	1593	A	C5-C6-N1	16.92	126.16	117.70
25	BB	1637	A	N1-C6-N6	-16.92	108.45	118.60
25	BB	2212	A	C5-C6-N1	16.91	126.16	117.70
25	BB	318	C	N3-C2-O2	-16.91	110.07	121.90
25	BB	2602	A	C5-C6-N1	16.91	126.15	117.70
25	BB	844	A	N1-C6-N6	-16.90	108.46	118.60
3	A1	286	C	N3-C4-C5	16.90	128.66	121.90
25	BB	1433	A	N1-C6-N6	-16.89	108.46	118.60
3	A1	129	A	N1-C6-N6	-16.89	108.47	118.60
25	BB	2772	C	C2-N3-C4	-16.89	111.46	119.90
3	A1	78	A	N1-C2-N3	-16.88	120.86	129.30
3	A1	710	G	C5-N7-C8	-16.88	95.86	104.30
3	A1	906	A	C4-C5-C6	-16.88	108.56	117.00
25	BB	603	A	N1-C6-N6	-16.88	108.47	118.60
3	A1	1171	A	N1-C6-N6	-16.87	108.48	118.60
3	A1	295	C	N3-C4-C5	16.86	128.65	121.90
3	A1	648	A	N1-C6-N6	-16.86	108.48	118.60
3	A1	202	G	O4'-C1'-N9	16.85	121.68	108.20
25	BB	1330	C	N3-C4-N4	-16.85	106.20	118.00
25	BB	1616	A	C4-C5-C6	-16.85	108.58	117.00
25	BB	1444	G	C5-C6-N1	16.84	119.92	111.50
25	BB	19	A	N1-C6-N6	-16.84	108.50	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	927	A	N1-C6-N6	-16.83	108.50	118.60
25	BB	2702	G	N7-C8-N9	16.82	121.51	113.10
3	A1	1394	A	C4-C5-C6	-16.81	108.59	117.00
3	A1	480	U	C4-C5-C6	16.81	129.79	119.70
25	BB	1748	C	N3-C4-C5	16.81	128.62	121.90
3	A1	1219	A	N1-C6-N6	-16.81	108.52	118.60
25	BB	786	C	N3-C2-O2	-16.80	110.14	121.90
25	BB	1424	G	N3-C4-C5	-16.79	120.21	128.60
25	BB	1717	A	N1-C6-N6	-16.79	108.53	118.60
25	BB	2079	U	O4'-C1'-N1	16.79	121.63	108.20
3	A1	1319	A	N1-C6-N6	-16.78	108.53	118.60
25	BB	2332	C	N3-C2-O2	-16.77	110.16	121.90
25	BB	2727	A	N1-C6-N6	-16.77	108.54	118.60
24	BA	52	A	N1-C6-N6	-16.77	108.54	118.60
25	BB	2476	A	N1-C6-N6	-16.77	108.54	118.60
25	BB	1535	A	N1-C6-N6	-16.77	108.54	118.60
25	BB	1934	C	N3-C4-C5	16.76	128.60	121.90
25	BB	1519	G	O4'-C1'-N9	16.75	121.60	108.20
25	BB	2740	A	N1-C6-N6	-16.74	108.56	118.60
3	A1	470	C	C2-N3-C4	-16.74	111.53	119.90
25	BB	2859	G	N1-C6-O6	-16.73	109.86	119.90
25	BB	423	A	C5-C6-N1	16.73	126.07	117.70
3	A1	279	A	N1-C6-N6	-16.73	108.56	118.60
54	B5	126	ARG	NE-CZ-NH1	16.73	128.66	120.30
3	A1	21	G	O4'-C1'-N9	16.72	121.58	108.20
3	A1	1320	C	N3-C2-O2	-16.72	110.19	121.90
25	BB	897	C	N1-C2-O2	16.71	128.93	118.90
3	A1	1233	G	C6-C5-N7	16.71	140.42	130.40
3	A1	635	A	N1-C6-N6	-16.70	108.58	118.60
25	BB	1553	A	N1-C6-N6	-16.69	108.58	118.60
25	BB	226	A	C5-C6-N1	16.69	126.04	117.70
20	AU	108	ARG	NE-CZ-NH1	16.68	128.64	120.30
3	A1	969	A	C4-C5-C6	-16.68	108.66	117.00
25	BB	1254	A	N1-C6-N6	-16.67	108.60	118.60
1	AP	25	C	C6-N1-C2	-16.66	113.64	120.30
25	BB	2418	A	N1-C6-N6	-16.65	108.61	118.60
24	BA	94	A	N1-C6-N6	-16.64	108.61	118.60
25	BB	1106	G	N9-C4-C5	16.64	112.06	105.40
3	A1	371	A	N1-C6-N6	-16.63	108.62	118.60
3	A1	1332	A	N1-C6-N6	-16.63	108.62	118.60
25	BB	1503	A	C4-C5-C6	-16.62	108.69	117.00
25	BB	1972	G	C3'-C2'-C1'	16.61	114.79	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1785	A	O4'-C1'-N9	16.60	121.48	108.20
25	BB	14	A	N1-C6-N6	-16.59	108.64	118.60
3	A1	572	A	C5-C6-N1	16.58	125.99	117.70
25	BB	2108	A	C4-C5-C6	-16.58	108.71	117.00
29	BF	10	ARG	NE-CZ-NH1	16.58	128.59	120.30
15	AO	125	ARG	NE-CZ-NH1	16.56	128.58	120.30
25	BB	307	G	N7-C8-N9	16.56	121.38	113.10
25	BB	716	A	N1-C6-N6	-16.56	108.66	118.60
25	BB	918	A	C5-C6-N1	16.56	125.98	117.70
25	BB	2056	G	C5-C6-O6	16.56	138.53	128.60
3	A1	290	C	N3-C4-N4	-16.55	106.41	118.00
25	BB	1188	U	C5-C6-N1	-16.55	114.43	122.70
3	A1	1274	A	N1-C2-N3	-16.54	121.03	129.30
3	A1	58	C	N3-C4-C5	16.54	128.52	121.90
9	AH	83	ARG	NE-CZ-NH1	16.54	128.57	120.30
25	BB	921	C	C5-C6-N1	-16.54	112.73	121.00
1	AP	7	U	C5-C4-O4	-16.54	115.98	125.90
25	BB	1572	A	C4-C5-C6	-16.54	108.73	117.00
25	BB	2510	C	N3-C4-N4	-16.53	106.43	118.00
25	BB	1085	A	C5-C6-N6	16.53	136.92	123.70
33	BJ	63	ARG	NE-CZ-NH1	16.53	128.56	120.30
25	BB	125	A	N1-C6-N6	-16.53	108.68	118.60
3	A1	852	G	C4-C5-N7	-16.52	104.19	110.80
25	BB	1348	C	N3-C2-O2	-16.52	110.34	121.90
3	A1	120	A	N1-C6-N6	-16.51	108.69	118.60
3	A1	1306	A	C8-N9-C4	-16.51	99.19	105.80
3	A1	223	A	N1-C6-N6	-16.51	108.69	118.60
3	A1	33	A	C5-C6-N1	16.51	125.95	117.70
25	BB	1977	A	N1-C6-N6	-16.50	108.70	118.60
3	A1	860	A	N1-C6-N6	-16.49	108.70	118.60
3	A1	372	C	O4'-C1'-N1	16.49	121.39	108.20
25	BB	2606	C	N3-C4-C5	16.48	128.49	121.90
25	BB	1792	G	C5-C6-N1	16.48	119.74	111.50
25	BB	1960	A	C5-C6-N1	16.48	125.94	117.70
17	AR	62	ARG	NE-CZ-NH1	16.48	128.54	120.30
25	BB	2682	A	C8-N9-C4	-16.47	99.21	105.80
10	AI	51	ARG	NE-CZ-NH1	16.47	128.54	120.30
28	BE	18	ARG	NE-CZ-NH2	16.47	128.54	120.30
25	BB	1961	C	N3-C2-O2	-16.47	110.37	121.90
1	AP	31	A	N1-C6-N6	-16.46	108.72	118.60
3	A1	572	A	C4-C5-C6	-16.46	108.77	117.00
25	BB	262	A	N1-C6-N6	-16.45	108.73	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1093	G	C8-N9-C4	-16.45	99.82	106.40
1	AA	30	G	N9-C4-C5	16.45	111.98	105.40
3	A1	1274	A	C2-N3-C4	16.45	118.82	110.60
25	BB	2241	A	C5-C6-N1	16.44	125.92	117.70
25	BB	501	A	N1-C6-N6	-16.43	108.74	118.60
25	BB	2726	A	C5-C6-N1	16.43	125.92	117.70
25	BB	2190	G	C5-C6-N1	16.43	119.72	111.50
30	BG	63	ARG	NE-CZ-NH2	16.43	128.51	120.30
3	A1	321	A	C4-C5-C6	-16.43	108.79	117.00
3	A1	1383	C	N3-C2-O2	-16.42	110.40	121.90
24	BA	45	A	N1-C6-N6	-16.42	108.75	118.60
25	BB	2005	A	C6-C5-N7	16.41	143.79	132.30
25	BB	2880	C	N3-C2-O2	-16.41	110.41	121.90
3	A1	1204	A	N1-C6-N6	-16.40	108.76	118.60
25	BB	2258	C	C6-N1-C2	-16.39	113.74	120.30
24	BA	85	G	N1-C6-O6	-16.39	110.06	119.90
25	BB	2785	C	N3-C2-O2	-16.39	110.43	121.90
25	BB	2126	A	C5-C6-N1	16.38	125.89	117.70
25	BB	454	A	N1-C6-N6	-16.36	108.78	118.60
3	A1	111	G	N1-C6-O6	-16.35	110.09	119.90
25	BB	586	A	N1-C6-N6	-16.35	108.79	118.60
25	BB	2117	A	N1-C6-N6	-16.35	108.79	118.60
25	BB	1592	C	N1-C2-O2	16.35	128.71	118.90
3	A1	151	A	N1-C6-N6	-16.35	108.79	118.60
25	BB	1022	G	N1-C6-O6	-16.34	110.09	119.90
25	BB	2225	A	C5-C6-N1	16.34	125.87	117.70
25	BB	683	U	O4'-C1'-N1	16.34	121.27	108.20
3	A1	285	C	N3-C2-O2	-16.34	110.46	121.90
25	BB	764	A	C5-C6-N1	16.34	125.87	117.70
25	BB	1214	A	N1-C6-N6	-16.33	108.80	118.60
25	BB	449	A	N1-C6-N6	-16.32	108.81	118.60
3	A1	246	A	C6-N1-C2	-16.32	108.81	118.60
25	BB	1592	C	N3-C2-O2	-16.31	110.48	121.90
25	BB	2297	A	N1-C6-N6	-16.31	108.81	118.60
25	BB	2594	C	N3-C4-C5	16.31	128.42	121.90
51	B2	114	ARG	NE-CZ-NH1	16.31	128.46	120.30
25	BB	855	G	N1-C6-O6	-16.31	110.12	119.90
25	BB	756	A	C5-C6-N1	16.30	125.85	117.70
3	A1	1223	C	N3-C4-N4	-16.30	106.59	118.00
3	A1	1429	A	C5-C6-N1	16.30	125.85	117.70
42	BS	63	ARG	NE-CZ-NH1	16.30	128.45	120.30
3	A1	1180	A	C5-C6-N1	16.30	125.85	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2267	A	C5-C6-N1	16.30	125.85	117.70
3	A1	509	A	N1-C6-N6	-16.29	108.83	118.60
25	BB	1808	A	C4-C5-C6	-16.29	108.86	117.00
3	A1	1530	G	N3-C2-N2	-16.29	108.50	119.90
25	BB	1892	C	N3-C4-C5	16.28	128.41	121.90
25	BB	2407	A	C4-C5-C6	-16.27	108.86	117.00
25	BB	804	A	C4-C5-C6	-16.27	108.86	117.00
15	AO	178	ARG	NE-CZ-NH1	16.27	128.44	120.30
25	BB	1595	C	C2-N3-C4	-16.26	111.77	119.90
25	BB	323	C	C6-N1-C2	-16.26	113.80	120.30
25	BB	38	A	C4-C5-C6	-16.25	108.88	117.00
25	BB	374	A	N1-C6-N6	-16.25	108.85	118.60
25	BB	1881	C	C5-C6-N1	-16.25	112.88	121.00
3	A1	640	A	C4-C5-C6	-16.24	108.88	117.00
25	BB	6	A	C5-C6-N1	16.24	125.82	117.70
25	BB	912	C	N3-C4-C5	16.24	128.40	121.90
3	A1	327	A	N1-C6-N6	-16.24	108.86	118.60
25	BB	1679	A	C4-C5-C6	-16.24	108.88	117.00
25	BB	705	A	C4-C5-C6	-16.23	108.88	117.00
25	BB	1459	G	O4'-C1'-N9	16.23	121.19	108.20
25	BB	1965	C	N3-C4-C5	16.23	128.39	121.90
25	BB	167	A	C4-C5-C6	-16.22	108.89	117.00
3	A1	1374	A	N1-C6-N6	-16.21	108.87	118.60
3	A1	598	U	N3-C2-O2	-16.21	110.86	122.20
3	A1	1433	A	C4-C5-C6	-16.20	108.90	117.00
3	A1	382	A	C5-C6-N1	16.20	125.80	117.70
25	BB	1010	A	C5-C6-N1	16.20	125.80	117.70
25	BB	2199	A	C4-C5-C6	-16.20	108.90	117.00
25	BB	730	A	N1-C6-N6	-16.19	108.89	118.60
25	BB	1691	C	N3-C4-C5	16.19	128.37	121.90
1	AP	35	A	N1-C6-N6	-16.18	108.89	118.60
3	A1	1053	G	C8-N9-C4	-16.18	99.93	106.40
25	BB	2371	G	C8-N9-C4	-16.18	99.93	106.40
7	AF	70	ARG	NE-CZ-NH2	16.17	128.39	120.30
25	BB	655	A	N1-C6-N6	-16.17	108.90	118.60
3	A1	48	C	C6-N1-C2	-16.17	113.83	120.30
25	BB	2340	A	N1-C6-N6	-16.17	108.90	118.60
3	A1	1136	C	N3-C4-C5	16.15	128.36	121.90
3	A1	119	A	N9-C4-C5	16.14	112.26	105.80
24	BA	38	C	C6-N1-C2	-16.14	113.84	120.30
3	A1	1423	G	N9-C4-C5	16.14	111.86	105.40
25	BB	699	A	N1-C6-N6	-16.14	108.92	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1395	C	N3-C4-C5	16.13	128.35	121.90
3	A1	65	A	C6-C5-N7	16.12	143.59	132.30
25	BB	1724	G	C5-C6-N1	16.12	119.56	111.50
3	A1	425	G	C5-C6-N1	16.12	119.56	111.50
25	BB	892	A	N1-C6-N6	-16.11	108.93	118.60
25	BB	1096	A	C4-C5-C6	-16.11	108.94	117.00
25	BB	1330	C	N3-C4-C5	16.11	128.35	121.90
25	BB	2580	U	C5-C6-N1	-16.11	114.64	122.70
3	A1	506	G	N1-C6-O6	-16.10	110.24	119.90
3	A1	963	G	C8-N9-C4	-16.10	99.96	106.40
3	A1	507	C	N3-C4-C5	16.10	128.34	121.90
25	BB	1001	A	C5-C6-N1	16.10	125.75	117.70
1	AP	74	C	OP1-P-O3'	-16.10	69.78	105.20
25	BB	998	C	N3-C4-N4	-16.09	106.74	118.00
3	A1	1237	C	C2-N3-C4	-16.09	111.86	119.90
25	BB	21	A	C4-C5-C6	-16.09	108.96	117.00
25	BB	2005	A	C5-C6-N1	16.09	125.74	117.70
1	AE	74	C	N3-C4-N4	-16.08	106.74	118.00
3	A1	759	A	N1-C6-N6	-16.08	108.95	118.60
25	BB	1793	C	C2-N3-C4	-16.08	111.86	119.90
3	A1	8	A	N1-C6-N6	-16.08	108.95	118.60
25	BB	1593	A	C2-N3-C4	16.07	118.64	110.60
25	BB	430	A	C8-N9-C4	-16.07	99.37	105.80
25	BB	2468	A	N1-C6-N6	-16.07	108.96	118.60
3	A1	777	A	N1-C6-N6	-16.07	108.96	118.60
3	A1	1342	C	C2-N3-C4	-16.06	111.87	119.90
25	BB	1111	A	N1-C6-N6	-16.06	108.97	118.60
25	BB	1444	G	N1-C6-O6	-16.06	110.27	119.90
25	BB	1626	A	N1-C6-N6	-16.06	108.97	118.60
25	BB	954	G	N1-C6-O6	-16.05	110.27	119.90
25	BB	2543	G	N7-C8-N9	16.05	121.12	113.10
25	BB	2062	A	N1-C6-N6	-16.05	108.97	118.60
3	A1	1152	A	N1-C6-N6	-16.05	108.97	118.60
25	BB	2636	C	N3-C4-C5	16.04	128.32	121.90
3	A1	1092	A	C5-C6-N1	16.04	125.72	117.70
3	A1	109	A	N1-C6-N6	-16.04	108.98	118.60
25	BB	412	A	N1-C6-N6	-16.03	108.98	118.60
25	BB	1785	A	N1-C6-N6	-16.03	108.98	118.60
25	BB	348	A	N1-C6-N6	-16.02	108.98	118.60
25	BB	1384	A	N1-C6-N6	-16.02	108.99	118.60
3	A1	385	C	N3-C4-C5	16.02	128.31	121.90
25	BB	2530	A	C4-C5-C6	-16.02	108.99	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	923	A	N1-C6-N6	-16.01	108.99	118.60
25	BB	2378	A	C8-N9-C4	-16.01	99.40	105.80
25	BB	2710	C	C6-N1-C2	-16.01	113.90	120.30
3	A1	865	A	C5-C6-N1	16.01	125.70	117.70
25	BB	757	G	C5-C6-N1	16.01	119.50	111.50
25	BB	1597	A	N1-C6-N6	-16.00	109.00	118.60
25	BB	2298	A	C4-C5-C6	-16.00	109.00	117.00
3	A1	563	A	N1-C6-N6	-16.00	109.00	118.60
25	BB	21	A	C5-C6-N1	16.00	125.70	117.70
3	A1	1041	G	N1-C6-O6	-16.00	110.30	119.90
25	BB	131	A	N1-C6-N6	-16.00	109.00	118.60
3	A1	282	A	C5-C6-N1	15.99	125.69	117.70
24	BA	94	A	C5-C6-N1	15.98	125.69	117.70
25	BB	2220	U	C5-C6-N1	-15.97	114.71	122.70
25	BB	1272	A	N1-C2-N3	-15.97	121.31	129.30
3	A1	572	A	N1-C2-N3	-15.97	121.32	129.30
3	A1	180	U	N3-C2-O2	-15.96	111.03	122.20
25	BB	1701	A	C2-N3-C4	15.96	118.58	110.60
3	A1	918	A	N1-C6-N6	-15.95	109.03	118.60
25	BB	612	G	C5-C6-N1	15.95	119.47	111.50
3	A1	792	A	N1-C6-N6	-15.94	109.03	118.60
3	A1	435	A	N1-C6-N6	-15.94	109.04	118.60
3	A1	893	C	N3-C4-C5	15.94	128.28	121.90
32	BI	71	ARG	NE-CZ-NH2	-15.94	112.33	120.30
25	BB	885	C	N3-C4-C5	15.93	128.27	121.90
1	AA	29	A	C4-C5-C6	-15.92	109.04	117.00
25	BB	879	G	N1-C2-N3	15.92	133.45	123.90
10	AI	56	ARG	NE-CZ-NH2	-15.92	112.34	120.30
25	BB	1451	C	C2-N3-C4	-15.91	111.94	119.90
25	BB	1640	A	C4-C5-C6	-15.91	109.05	117.00
3	A1	1360	A	N1-C2-N3	-15.91	121.35	129.30
25	BB	226	A	C4-C5-C6	-15.91	109.05	117.00
25	BB	988	A	N1-C6-N6	-15.91	109.06	118.60
25	BB	2662	A	N1-C6-N6	-15.90	109.06	118.60
25	BB	1367	A	N1-C6-N6	-15.90	109.06	118.60
25	BB	1728	C	N3-C4-N4	-15.90	106.87	118.00
25	BB	2276	G	O4'-C1'-N9	15.90	120.92	108.20
25	BB	2526	G	C8-N9-C4	-15.89	100.04	106.40
25	BB	2530	A	C5-C6-N1	15.89	125.65	117.70
3	A1	977	A	N1-C6-N6	-15.89	109.07	118.60
25	BB	918	A	N1-C6-N6	-15.89	109.07	118.60
3	A1	1494	G	N9-C4-C5	15.89	111.75	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	752	A	N1-C6-N6	-15.89	109.07	118.60
25	BB	1428	C	N3-C4-C5	15.88	128.25	121.90
3	A1	906	A	N1-C6-N6	-15.88	109.08	118.60
25	BB	270	A	C5-C6-N1	15.87	125.64	117.70
14	AN	17	ARG	NE-CZ-NH1	15.87	128.24	120.30
50	B1	88	ARG	NE-CZ-NH1	15.87	128.24	120.30
25	BB	583	G	N1-C6-O6	-15.87	110.38	119.90
25	BB	2820	A	C5-C6-N1	15.87	125.63	117.70
3	A1	1208	C	N3-C4-C5	15.86	128.24	121.90
25	BB	1873	G	C4-C5-N7	-15.86	104.46	110.80
25	BB	404	A	C4-C5-C6	-15.85	109.07	117.00
24	BA	58	A	C4-C5-C6	-15.85	109.08	117.00
3	A1	306	A	O4'-C1'-N9	15.85	120.88	108.20
1	AP	27	C	C2-N3-C4	-15.84	111.98	119.90
25	BB	1267	U	O4'-C1'-N1	15.84	120.87	108.20
3	A1	26	A	N1-C2-N3	-15.84	121.38	129.30
25	BB	690	G	N1-C6-O6	-15.84	110.40	119.90
1	AE	65	G	N7-C8-N9	15.83	121.02	113.10
3	A1	648	A	C5-C6-N1	15.83	125.62	117.70
25	BB	2250	G	N3-C4-C5	-15.83	120.68	128.60
25	BB	1969	A	C5-C6-N1	15.83	125.62	117.70
3	A1	1483	A	O4'-C1'-C2'	-15.83	89.97	105.80
3	A1	687	A	N1-C6-N6	-15.82	109.11	118.60
25	BB	1656	C	N3-C2-O2	-15.82	110.82	121.90
3	A1	130	A	N1-C6-N6	-15.82	109.11	118.60
3	A1	1285	A	N1-C6-N6	-15.82	109.11	118.60
25	BB	1803	A	C4-C5-C6	-15.82	109.09	117.00
1	AA	34	G	N1-C6-O6	-15.81	110.41	119.90
25	BB	2845	U	C5-C6-N1	-15.81	114.79	122.70
25	BB	2165	C	C6-N1-C2	-15.81	113.98	120.30
25	BB	2430	A	C5-C6-N1	15.81	125.61	117.70
25	BB	644	A	N1-C6-N6	-15.81	109.11	118.60
25	BB	208	C	N3-C4-N4	-15.81	106.94	118.00
25	BB	213	A	C4-C5-C6	-15.81	109.10	117.00
25	BB	642	U	N1-C2-O2	15.81	133.86	122.80
3	A1	288	A	C5-C6-N1	15.80	125.60	117.70
25	BB	1786	A	O4'-C1'-N9	15.80	120.84	108.20
25	BB	2135	A	C5-C6-N1	15.80	125.60	117.70
25	BB	2090	A	C4-C5-C6	-15.79	109.10	117.00
3	A1	1423	G	C4-C5-N7	-15.79	104.48	110.80
25	BB	191	A	N1-C6-N6	-15.79	109.13	118.60
25	BB	2367	G	N1-C6-O6	-15.79	110.43	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AP	66	A	N1-C6-N6	-15.79	109.13	118.60
25	BB	1359	A	C8-N9-C4	-15.78	99.49	105.80
25	BB	673	C	C2-N3-C4	-15.78	112.01	119.90
3	A1	1035	A	N1-C6-N6	-15.78	109.14	118.60
24	BA	115	A	N1-C2-N3	-15.77	121.42	129.30
25	BB	1266	G	C4-C5-N7	15.77	117.11	110.80
3	A1	595	A	C5-C6-N1	15.76	125.58	117.70
25	BB	2267	A	C4-C5-C6	-15.76	109.12	117.00
25	BB	2283	C	N3-C4-C5	15.76	128.20	121.90
25	BB	66	C	N1-C2-O2	15.75	128.35	118.90
25	BB	2602	A	N1-C6-N6	-15.74	109.16	118.60
3	A1	388	G	C1'-O4'-C4'	-15.74	97.31	109.90
3	A1	704	A	N1-C6-N6	-15.74	109.16	118.60
25	BB	167	A	C5-C6-N1	15.74	125.57	117.70
25	BB	1265	A	N1-C6-N6	-15.74	109.16	118.60
25	BB	756	A	N1-C6-N6	-15.73	109.16	118.60
25	BB	1939	U	O4'-C1'-N1	15.73	120.78	108.20
25	BB	2893	A	C4-C5-C6	-15.72	109.14	117.00
1	AP	25	C	N3-C2-O2	-15.72	110.90	121.90
3	A1	642	A	N1-C6-N6	-15.72	109.17	118.60
25	BB	701	G	C5-C6-N1	15.72	119.36	111.50
25	BB	2463	C	N3-C4-N4	-15.72	107.00	118.00
25	BB	1588	G	N1-C6-O6	-15.72	110.47	119.90
25	BB	2263	C	C6-N1-C2	-15.71	114.02	120.30
25	BB	1193	G	O4'-C1'-N9	15.71	120.77	108.20
25	BB	1613	G	N1-C6-O6	-15.71	110.47	119.90
25	BB	2469	A	N1-C6-N6	-15.71	109.18	118.60
25	BB	590	A	C5-C6-N1	15.70	125.55	117.70
25	BB	671	C	C2-N3-C4	-15.70	112.05	119.90
25	BB	1103	A	C6-N1-C2	-15.69	109.18	118.60
25	BB	1167	C	C2-N3-C4	-15.69	112.05	119.90
27	BD	64	ARG	NE-CZ-NH2	-15.69	112.45	120.30
25	BB	2136	G	C5-C6-O6	-15.69	119.19	128.60
25	BB	2064	C	N1-C2-O2	15.68	128.31	118.90
3	A1	1388	C	N3-C2-O2	-15.68	110.92	121.90
25	BB	1289	C	N3-C2-O2	-15.68	110.92	121.90
25	BB	1698	A	N1-C6-N6	-15.68	109.19	118.60
25	BB	2055	C	N1-C2-O2	15.68	128.31	118.90
25	BB	2451	A	N1-C6-N6	-15.68	109.19	118.60
25	BB	127	A	N1-C6-N6	-15.68	109.19	118.60
25	BB	249	C	C2-N3-C4	-15.68	112.06	119.90
25	BB	780	G	C5-N7-C8	-15.68	96.46	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	364	A	O4'-C1'-N9	-15.67	95.66	108.20
3	A1	720	C	C6-N1-C2	-15.67	114.03	120.30
25	BB	2062	A	C4-C5-C6	-15.67	109.16	117.00
3	A1	754	C	N3-C4-C5	15.67	128.17	121.90
25	BB	1226	A	N1-C6-N6	-15.67	109.20	118.60
35	BL	95	ARG	NE-CZ-NH2	-15.67	112.47	120.30
3	A1	973	G	N1-C6-O6	-15.66	110.50	119.90
25	BB	1292	G	N1-C6-O6	-15.66	110.50	119.90
3	A1	282	A	C4-C5-C6	-15.66	109.17	117.00
25	BB	2810	A	C4-C5-C6	-15.66	109.17	117.00
3	A1	505	G	C4-C5-N7	15.66	117.06	110.80
3	A1	1350	A	C5-C6-N1	15.66	125.53	117.70
3	A1	567	G	N1-C6-O6	-15.65	110.51	119.90
3	A1	1230	C	N3-C4-N4	-15.64	107.05	118.00
25	BB	339	U	C5-C6-N1	-15.64	114.88	122.70
25	BB	412	A	C5-C6-N1	15.63	125.52	117.70
24	BA	84	G	C5-C6-N1	15.62	119.31	111.50
25	BB	637	A	N1-C6-N6	-15.62	109.23	118.60
25	BB	2199	A	N1-C6-N6	-15.62	109.23	118.60
3	A1	431	A	N1-C6-N6	-15.62	109.23	118.60
53	B4	68	ARG	NE-CZ-NH1	15.62	128.11	120.30
3	A1	1500	A	N1-C6-N6	-15.61	109.23	118.60
25	BB	1269	A	N1-C6-N6	-15.61	109.24	118.60
3	A1	1443	C	N3-C2-O2	-15.60	110.98	121.90
25	BB	1284	A	C5-C6-N1	15.60	125.50	117.70
3	A1	383	A	N9-C4-C5	15.60	112.04	105.80
25	BB	208	C	N3-C4-C5	15.60	128.14	121.90
3	A1	1434	A	C5-C6-N1	15.59	125.49	117.70
25	BB	155	A	N1-C6-N6	-15.59	109.25	118.60
3	A1	791	G	O4'-C1'-N9	15.59	120.67	108.20
3	A1	1293	C	N3-C4-N4	-15.59	107.09	118.00
25	BB	2056	G	N1-C6-O6	-15.58	110.55	119.90
3	A1	179	A	C4-C5-C6	-15.58	109.21	117.00
1	AA	38	A	N1-C6-N6	-15.57	109.25	118.60
25	BB	2469	A	C5-C6-N1	15.57	125.48	117.70
25	BB	2651	C	N3-C4-C5	15.57	128.13	121.90
3	A1	1002	G	C8-N9-C4	-15.57	100.17	106.40
3	A1	1507	A	C6-C5-N7	15.56	143.19	132.30
25	BB	42	A	C5-C6-N1	15.56	125.48	117.70
3	A1	167	A	N1-C6-N6	-15.55	109.27	118.60
55	B6	98	GLU	OE1-CD-OE2	-15.55	104.64	123.30
25	BB	1686	C	O4'-C1'-N1	15.54	120.64	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	994	C	N3-C2-O2	-15.54	111.02	121.90
25	BB	2809	A	N1-C6-N6	-15.54	109.28	118.60
3	A1	1437	A	N9-C4-C5	-15.54	99.58	105.80
35	BL	8	ARG	NE-CZ-NH1	15.53	128.07	120.30
25	BB	2032	G	N3-C4-C5	-15.53	120.83	128.60
3	A1	1274	A	C5-C6-N1	15.53	125.46	117.70
25	BB	1206	G	N1-C6-O6	-15.52	110.59	119.90
3	A1	431	A	C5-C6-N1	15.52	125.46	117.70
3	A1	1197	A	N1-C6-N6	-15.52	109.29	118.60
3	A1	937	A	C5-C6-N1	15.52	125.46	117.70
3	A1	1479	C	N3-C2-O2	-15.52	111.04	121.90
25	BB	2119	A	N1-C6-N6	-15.52	109.29	118.60
24	BA	21	G	C5-N7-C8	-15.52	96.54	104.30
25	BB	231	A	N1-C6-N6	-15.52	109.29	118.60
25	BB	1803	A	N1-C6-N6	-15.51	109.29	118.60
25	BB	1102	C	O4'-C1'-N1	15.51	120.61	108.20
25	BB	1352	U	N3-C2-O2	-15.51	111.34	122.20
25	BB	1345	C	N1-C2-O2	15.51	128.20	118.90
3	A1	898	G	C6-C5-N7	15.50	139.70	130.40
25	BB	307	G	C8-N9-C4	-15.50	100.20	106.40
25	BB	1079	C	N3-C4-C5	15.50	128.10	121.90
25	BB	572	A	N1-C6-N6	-15.49	109.31	118.60
24	BA	94	A	C6-C5-N7	15.49	143.14	132.30
25	BB	917	A	N1-C6-N6	-15.48	109.31	118.60
25	BB	471	A	N1-C6-N6	-15.48	109.31	118.60
3	A1	990	C	O4'-C1'-N1	15.47	120.58	108.20
3	A1	564	C	N3-C4-C5	15.47	128.09	121.90
3	A1	1124	G	C4-C5-N7	-15.47	104.61	110.80
3	A1	1220	G	N7-C8-N9	15.47	120.83	113.10
3	A1	179	A	C5-C6-N1	15.46	125.43	117.70
25	BB	867	C	N3-C2-O2	-15.46	111.08	121.90
25	BB	2662	A	C4-C5-C6	-15.45	109.27	117.00
25	BB	186	G	O4'-C1'-N9	-15.45	95.84	108.20
3	A1	298	A	N1-C6-N6	-15.44	109.33	118.60
25	BB	982	C	O4'-C1'-N1	15.44	120.55	108.20
25	BB	1672	A	C4-C5-C6	-15.44	109.28	117.00
3	A1	1177	G	N1-C6-O6	-15.43	110.64	119.90
25	BB	2459	A	C4-C5-C6	-15.42	109.29	117.00
37	BN	174	ARG	NE-CZ-NH2	15.42	128.01	120.30
3	A1	764	C	C3'-C2'-C1'	15.42	113.84	101.50
25	BB	1928	A	C4-C5-C6	-15.42	109.29	117.00
3	A1	903	G	C5-C6-O6	15.42	137.85	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	502	A	N1-C6-N6	-15.41	109.35	118.60
25	BB	1952	A	N1-C6-N6	-15.41	109.35	118.60
3	A1	1521	C	C6-N1-C2	-15.41	114.14	120.30
3	A1	1037	C	N3-C4-C5	15.41	128.06	121.90
25	BB	1629	U	C5-C6-N1	-15.40	115.00	122.70
25	BB	1237	A	C5-C6-N1	15.40	125.40	117.70
25	BB	2810	A	N1-C6-N6	-15.40	109.36	118.60
25	BB	2776	A	N1-C6-N6	-15.40	109.36	118.60
25	BB	1947	C	N3-C4-N4	-15.39	107.23	118.00
25	BB	120	U	N3-C2-O2	-15.38	111.43	122.20
25	BB	721	A	N1-C6-N6	-15.38	109.38	118.60
25	BB	826	U	O4'-C1'-N1	15.38	120.50	108.20
25	BB	1288	G	N3-C2-N2	-15.38	109.14	119.90
3	A1	1340	A	C4'-C3'-C2'	-15.37	87.23	102.60
25	BB	2733	A	N1-C6-N6	-15.37	109.38	118.60
25	BB	159	G	N7-C8-N9	15.37	120.78	113.10
25	BB	2447	G	N1-C6-O6	-15.36	110.68	119.90
25	BB	988	A	C5-C6-N1	15.36	125.38	117.70
25	BB	1515	A	C5-C6-N6	15.36	135.99	123.70
25	BB	71	A	C4-C5-C6	-15.36	109.32	117.00
25	BB	354	A	N1-C6-N6	-15.36	109.39	118.60
25	BB	2090	A	N1-C6-N6	-15.36	109.39	118.60
25	BB	672	C	N1-C2-O2	15.35	128.11	118.90
48	BY	77	ARG	NE-CZ-NH1	15.35	127.98	120.30
25	BB	1595	C	N3-C4-C5	15.35	128.04	121.90
25	BB	1632	A	N1-C6-N6	-15.35	109.39	118.60
25	BB	1854	A	C5-C6-N1	15.35	125.38	117.70
3	A1	29	U	C5-C6-N1	-15.34	115.03	122.70
3	A1	212	G	N9-C4-C5	-15.34	99.26	105.40
25	BB	1453	A	C5-C6-N1	15.34	125.37	117.70
25	BB	1502	A	C5-C6-N1	15.34	125.37	117.70
1	AA	66	A	C2-N3-C4	15.34	118.27	110.60
25	BB	674	G	N3-C4-C5	-15.34	120.93	128.60
3	A1	1031	C	N3-C4-C5	15.33	128.03	121.90
3	A1	1339	A	C5-C6-N1	15.33	125.37	117.70
25	BB	739	A	C5-C6-N1	15.33	125.37	117.70
25	BB	218	A	N1-C6-N6	-15.33	109.40	118.60
25	BB	1266	G	C5-N7-C8	-15.33	96.64	104.30
3	A1	946	A	C4-C5-C6	-15.32	109.34	117.00
25	BB	1457	U	O4'-C1'-N1	15.32	120.46	108.20
25	BB	1590	A	N9-C4-C5	-15.32	99.67	105.80
3	A1	1346	A	N1-C6-N6	-15.31	109.41	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	37	C	C2-N3-C4	-15.31	112.25	119.90
25	BB	2758	A	C5-C6-N1	15.31	125.35	117.70
25	BB	1976	U	C5-C6-N1	-15.30	115.05	122.70
25	BB	932	U	C5-C6-N1	-15.30	115.05	122.70
25	BB	1266	G	N1-C6-O6	-15.29	110.73	119.90
25	BB	2503	A	N1-C6-N6	-15.28	109.43	118.60
25	BB	1809	A	N1-C6-N6	-15.28	109.43	118.60
25	BB	156	A	N1-C6-N6	-15.28	109.43	118.60
1	AP	28	C	N3-C4-C5	15.28	128.01	121.90
3	A1	1176	A	O4'-C1'-N9	15.27	120.42	108.20
3	A1	559	A	N9-C4-C5	-15.27	99.69	105.80
3	A1	1409	C	N3-C4-C5	15.27	128.01	121.90
25	BB	1030	C	N3-C4-N4	-15.26	107.32	118.00
25	BB	123	G	N1-C6-O6	-15.26	110.75	119.90
25	BB	318	C	N1-C2-O2	15.26	128.06	118.90
25	BB	705	A	C5-C6-N1	15.26	125.33	117.70
25	BB	1373	A	N1-C6-N6	-15.26	109.45	118.60
25	BB	1535	A	C5-C6-N1	15.26	125.33	117.70
25	BB	1646	C	C6-N1-C2	-15.26	114.20	120.30
5	AC	68	ARG	NE-CZ-NH1	15.25	127.92	120.30
25	BB	2037	A	N1-C6-N6	-15.25	109.45	118.60
24	BA	70	C	N3-C2-O2	-15.25	111.23	121.90
25	BB	2800	A	N1-C6-N6	-15.24	109.46	118.60
25	BB	505	A	N1-C6-N6	-15.23	109.46	118.60
25	BB	2732	G	N3-C2-N2	-15.23	109.23	119.90
25	BB	1672	A	C5-C6-N1	15.23	125.32	117.70
25	BB	796	C	N3-C4-C5	15.23	127.99	121.90
25	BB	1461	C	O4'-C1'-N1	15.23	120.38	108.20
17	AR	62	ARG	NE-CZ-NH2	-15.22	112.69	120.30
25	BB	1106	G	C4-C5-N7	-15.22	104.71	110.80
4	AB	73	ARG	NE-CZ-NH1	15.21	127.91	120.30
25	BB	1958	C	C6-N1-C2	-15.21	114.22	120.30
25	BB	2387	U	C5-C6-N1	-15.21	115.10	122.70
3	A1	182	A	C5-C6-N1	15.20	125.30	117.70
25	BB	838	C	N3-C4-N4	-15.20	107.36	118.00
25	BB	1095	A	N1-C6-N6	-15.20	109.48	118.60
25	BB	1717	A	C4-C5-C6	-15.20	109.40	117.00
25	BB	691	C	N3-C2-O2	-15.19	111.27	121.90
25	BB	2751	G	O4'-C1'-N9	15.19	120.35	108.20
3	A1	663	A	O4'-C1'-N9	15.18	120.35	108.20
3	A1	795	C	N3-C2-O2	-15.18	111.27	121.90
25	BB	344	A	C5-C6-N1	15.18	125.29	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	838	G	C5-C6-N1	15.18	119.09	111.50
39	BP	40	ARG	NE-CZ-NH1	15.18	127.89	120.30
24	BA	12	C	N3-C4-C5	15.17	127.97	121.90
3	A1	879	C	N3-C4-C5	15.17	127.97	121.90
25	BB	858	G	N1-C6-O6	-15.17	110.80	119.90
25	BB	2367	G	C5-C6-O6	15.17	137.70	128.60
3	A1	736	C	N3-C4-C5	15.17	127.97	121.90
25	BB	2895	G	N3-C4-C5	-15.17	121.02	128.60
25	BB	2173	A	C8-N9-C4	-15.16	99.73	105.80
25	BB	2572	A	N1-C6-N6	-15.16	109.50	118.60
3	A1	1340	A	N1-C6-N6	-15.16	109.51	118.60
25	BB	255	A	N1-C6-N6	-15.15	109.51	118.60
25	BB	1206	G	N3-C2-N2	-15.15	109.30	119.90
37	BN	13	ARG	NE-CZ-NH1	15.15	127.88	120.30
3	A1	1287	A	C5-C6-N1	15.15	125.27	117.70
25	BB	299	A	C4-C5-C6	-15.15	109.43	117.00
3	A1	1245	C	C6-N1-C2	-15.15	114.24	120.30
25	BB	1569	A	C5-C6-N1	15.14	125.27	117.70
24	BA	104	A	N1-C6-N6	-15.14	109.52	118.60
25	BB	484	C	N3-C2-O2	-15.13	111.31	121.90
25	BB	1020	A	N1-C6-N6	-15.13	109.52	118.60
3	A1	1257	A	N1-C6-N6	-15.13	109.52	118.60
3	A1	881	G	N1-C6-O6	-15.13	110.82	119.90
3	A1	1054	C	N3-C4-C5	15.12	127.95	121.90
25	BB	986	C	C2-N3-C4	-15.12	112.34	119.90
3	A1	451	A	N1-C6-N6	-15.12	109.53	118.60
3	A1	1324	A	C4-C5-C6	-15.12	109.44	117.00
25	BB	1413	A	C4-C5-C6	-15.11	109.44	117.00
3	A1	506	G	C5-C6-O6	15.11	137.67	128.60
3	A1	385	C	C2-N3-C4	-15.11	112.35	119.90
3	A1	1456	A	C6-C5-N7	15.10	142.87	132.30
25	BB	1043	C	N3-C4-C5	15.10	127.94	121.90
25	BB	2298	A	C5-C6-N1	15.10	125.25	117.70
25	BB	2634	A	C5-C6-N1	15.10	125.25	117.70
25	BB	2813	A	C5-C6-N1	15.10	125.25	117.70
3	A1	1287	A	C4-C5-C6	-15.09	109.45	117.00
25	BB	2225	A	N1-C6-N6	-15.09	109.55	118.60
3	A1	452	A	C3'-C2'-C1'	-15.08	89.44	101.50
25	BB	2433	A	N1-C6-N6	-15.08	109.55	118.60
3	A1	68	G	N1-C6-O6	-15.08	110.85	119.90
3	A1	970	C	N3-C4-C5	15.08	127.93	121.90
25	BB	1677	A	N1-C6-N6	-15.08	109.55	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2557	G	N1-C6-O6	-15.08	110.85	119.90
3	A1	241	G	N1-C6-O6	-15.07	110.86	119.90
20	AU	110	ARG	NE-CZ-NH1	15.07	127.84	120.30
3	A1	642	A	C8-N9-C4	-15.07	99.77	105.80
25	BB	194	G	N3-C4-C5	-15.07	121.06	128.60
3	A1	452	A	N1-C6-N6	-15.07	109.56	118.60
1	AE	36	A	N1-C2-N3	-15.06	121.77	129.30
25	BB	2283	C	N3-C4-N4	-15.06	107.45	118.00
25	BB	2766	A	N1-C6-N6	-15.06	109.56	118.60
3	A1	1237	C	N3-C4-N4	-15.06	107.46	118.00
24	BA	99	A	C5-C6-N1	15.06	125.23	117.70
25	BB	979	A	C5-C6-N1	15.06	125.23	117.70
25	BB	203	A	N1-C6-N6	-15.05	109.57	118.60
25	BB	743	A	N1-C6-N6	-15.05	109.57	118.60
25	BB	891	G	N9-C4-C5	-15.05	99.38	105.40
25	BB	2248	C	C2-N3-C4	-15.05	112.38	119.90
25	BB	362	A	N1-C6-N6	-15.05	109.57	118.60
25	BB	2505	G	N1-C6-O6	-15.04	110.88	119.90
3	A1	52	C	N3-C2-O2	-15.04	111.38	121.90
3	A1	1174	G	N3-C4-C5	-15.03	121.08	128.60
25	BB	1266	G	C5-C6-N1	15.03	119.02	111.50
15	AO	64	ARG	NE-CZ-NH1	15.03	127.82	120.30
25	BB	412	A	C4-C5-C6	-15.03	109.48	117.00
25	BB	1639	C	C5-C6-N1	-15.02	113.49	121.00
25	BB	2060	A	N1-C6-N6	-15.02	109.59	118.60
1	AP	58	A	N1-C2-N3	-15.02	121.79	129.30
1	AE	64	A	C5-C6-N1	15.02	125.21	117.70
25	BB	2856	A	N1-C6-N6	-15.01	109.59	118.60
25	BB	1327	A	N9-C4-C5	15.01	111.80	105.80
34	BK	78	ARG	NE-CZ-NH2	15.01	127.80	120.30
25	BB	2851	A	C4-C5-C6	-15.00	109.50	117.00
53	B4	27	ARG	NE-CZ-NH2	15.00	127.80	120.30
25	BB	1556	C	N3-C4-C5	15.00	127.90	121.90
25	BB	1847	A	N1-C6-N6	-15.00	109.60	118.60
25	BB	652	U	N1-C2-N3	14.99	123.90	114.90
3	A1	624	C	C2-N3-C4	-14.99	112.40	119.90
25	BB	685	A	C5-N7-C8	-14.99	96.41	103.90
3	A1	579	A	C4-C5-C6	-14.99	109.51	117.00
3	A1	496	A	N1-C6-N6	-14.98	109.61	118.60
25	BB	63	A	C4-C5-C6	-14.98	109.51	117.00
3	A1	787	A	N1-C6-N6	-14.97	109.62	118.60
25	BB	1054	A	O4'-C1'-N9	14.96	120.17	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	580	C	N1-C2-O2	14.96	127.87	118.90
25	BB	402	A	N1-C6-N6	-14.95	109.63	118.60
25	BB	681	G	N1-C6-O6	-14.96	110.93	119.90
55	B6	13	ARG	NE-CZ-NH1	14.96	127.78	120.30
25	BB	2612	C	N3-C4-N4	-14.95	107.54	118.00
25	BB	1446	C	C2-N3-C4	-14.94	112.43	119.90
3	A1	1339	A	C4-C5-C6	-14.94	109.53	117.00
3	A1	1172	C	C6-N1-C2	-14.93	114.33	120.30
25	BB	1910	G	N3-C4-C5	-14.93	121.14	128.60
3	A1	1237	C	N3-C4-C5	14.92	127.87	121.90
25	BB	19	A	C4-C5-C6	-14.92	109.54	117.00
25	BB	1659	G	C8-N9-C4	-14.92	100.43	106.40
15	AO	53	ARG	NE-CZ-NH2	14.91	127.76	120.30
29	BF	16	ARG	NE-CZ-NH1	14.91	127.76	120.30
3	A1	62	U	N3-C2-O2	-14.91	111.76	122.20
25	BB	1901	A	C4-C5-C6	-14.91	109.55	117.00
25	BB	2711	A	C5-C6-N1	14.91	125.15	117.70
25	BB	103	A	N1-C6-N6	-14.90	109.66	118.60
25	BB	1289	C	N1-C2-O2	14.90	127.84	118.90
25	BB	928	A	N1-C6-N6	-14.90	109.66	118.60
25	BB	558	U	C5-C4-O4	-14.90	116.96	125.90
25	BB	758	C	N3-C4-N4	-14.89	107.58	118.00
3	A1	1520	C	C3'-C2'-C1'	14.89	113.41	101.50
3	A1	383	A	C6-C5-N7	14.89	142.72	132.30
25	BB	655	A	C5-C6-N1	14.88	125.14	117.70
2	AM	16	U	C5-C6-N1	-14.88	115.26	122.70
25	BB	2292	U	C5-C6-N1	-14.88	115.26	122.70
3	A1	1320	C	C2-N3-C4	-14.87	112.46	119.90
25	BB	480	A	C5-C6-N1	14.87	125.14	117.70
3	A1	885	G	C4-C5-N7	-14.87	104.85	110.80
25	BB	60	G	N1-C6-O6	-14.87	110.98	119.90
3	A1	468	A	N1-C6-N6	-14.86	109.68	118.60
25	BB	554	U	N3-C2-O2	-14.86	111.80	122.20
3	A1	907	A	C5-C6-N1	14.86	125.13	117.70
25	BB	749	A	N1-C6-N6	-14.86	109.68	118.60
3	A1	225	C	N3-C4-C5	14.86	127.84	121.90
25	BB	1934	C	N3-C2-O2	-14.86	111.50	121.90
25	BB	2078	C	N3-C2-O2	-14.86	111.50	121.90
25	BB	2794	C	N3-C2-O2	-14.86	111.50	121.90
3	A1	477	C	C6-N1-C2	-14.85	114.36	120.30
25	BB	2751	G	N9-C4-C5	14.85	111.34	105.40
1	AA	49	C	N3-C2-O2	-14.85	111.51	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1000	A	N1-C6-N6	-14.85	109.69	118.60
1	AP	14	A	C5-C6-N1	14.84	125.12	117.70
25	BB	552	U	C5-C6-N1	-14.84	115.28	122.70
25	BB	1913	A	N1-C6-N6	-14.84	109.69	118.60
24	BA	34	A	N1-C6-N6	-14.84	109.70	118.60
3	A1	1305	G	N3-C4-C5	-14.84	121.18	128.60
6	AD	24	GLU	OE1-CD-OE2	-14.84	105.50	123.30
25	BB	2351	G	C8-N9-C4	-14.84	100.47	106.40
3	A1	1213	A	C5-C6-N1	14.83	125.12	117.70
7	AF	86	ARG	NE-CZ-NH1	14.83	127.72	120.30
25	BB	1998	A	C8-N9-C4	-14.83	99.87	105.80
3	A1	1145	A	C4-C5-C6	-14.82	109.59	117.00
25	BB	1306	C	N3-C4-N4	-14.82	107.63	118.00
32	BI	71	ARG	NE-CZ-NH1	14.82	127.71	120.30
3	A1	1428	A	N1-C6-N6	-14.81	109.71	118.60
3	A1	1508	A	C5-C6-N1	14.81	125.11	117.70
3	A1	260	G	N1-C6-O6	-14.81	111.01	119.90
25	BB	1056	G	N1-C6-O6	-14.81	111.02	119.90
25	BB	2677	G	N1-C6-O6	-14.81	111.02	119.90
1	AP	8	U	N3-C2-O2	-14.80	111.84	122.20
24	BA	66	A	C4-C5-C6	-14.80	109.60	117.00
3	A1	1455	G	N1-C6-O6	-14.80	111.02	119.90
25	BB	479	A	N1-C6-N6	-14.80	109.72	118.60
3	A1	999	C	N3-C4-C5	14.79	127.82	121.90
24	BA	43	C	C5-C6-N1	-14.79	113.61	121.00
3	A1	61	G	C5-C6-O6	14.79	137.47	128.60
25	BB	1020	A	C5-C6-N1	14.79	125.09	117.70
25	BB	1165	A	N1-C2-N3	-14.79	121.91	129.30
1	AA	44	A	N1-C6-N6	-14.78	109.73	118.60
25	BB	138	U	N1-C2-N3	14.78	123.77	114.90
25	BB	705	A	N1-C6-N6	-14.78	109.73	118.60
25	BB	929	U	O4'-C1'-N1	14.78	120.02	108.20
3	A1	1497	G	C8-N9-C4	-14.78	100.49	106.40
25	BB	626	A	N1-C6-N6	-14.78	109.73	118.60
25	BB	2723	C	N3-C4-C5	14.78	127.81	121.90
3	A1	1167	A	C5-C6-N1	14.77	125.09	117.70
25	BB	1133	A	N1-C6-N6	-14.77	109.74	118.60
25	BB	1567	G	N1-C6-O6	-14.77	111.04	119.90
3	A1	309	A	N1-C6-N6	-14.77	109.74	118.60
32	BI	50	ARG	NE-CZ-NH1	14.77	127.68	120.30
4	AB	73	ARG	NE-CZ-NH2	-14.76	112.92	120.30
25	BB	1341	G	C5-C6-N1	14.76	118.88	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	34	A	C5-C6-N1	14.76	125.08	117.70
25	BB	2510	C	C6-N1-C2	14.76	126.20	120.30
25	BB	315	G	N1-C6-O6	-14.76	111.05	119.90
3	A1	485	U	C5-C6-N1	-14.75	115.32	122.70
3	A1	179	A	N1-C6-N6	-14.75	109.75	118.60
25	BB	2584	U	C5-C6-N1	-14.75	115.33	122.70
3	A1	1190	G	N1-C6-O6	-14.74	111.05	119.90
25	BB	237	C	N3-C4-N4	-14.74	107.68	118.00
3	A1	1422	G	O4'-C1'-N9	14.74	119.99	108.20
24	BA	69	G	C8-N9-C4	-14.74	100.50	106.40
25	BB	337	C	N3-C4-N4	-14.74	107.68	118.00
25	BB	2896	C	N3-C2-O2	-14.73	111.59	121.90
3	A1	1235	U	C5-C6-N1	-14.73	115.34	122.70
25	BB	2241	A	C4-C5-C6	-14.72	109.64	117.00
25	BB	361	G	N1-C6-O6	-14.72	111.07	119.90
23	AX	68	ARG	NE-CZ-NH1	14.72	127.66	120.30
25	BB	156	A	C5-C6-N1	14.72	125.06	117.70
25	BB	978	G	N1-C6-O6	-14.72	111.07	119.90
3	A1	503	C	C5-C6-N1	-14.72	113.64	121.00
25	BB	876	C	N3-C4-N4	-14.71	107.70	118.00
25	BB	1067	A	C4-C5-C6	-14.71	109.64	117.00
3	A1	389	A	C5-C6-N1	14.71	125.06	117.70
24	BA	86	G	N1-C6-O6	-14.71	111.07	119.90
25	BB	915	C	N1-C2-O2	14.71	127.72	118.90
25	BB	2435	A	N1-C6-N6	-14.71	109.78	118.60
25	BB	1182	G	C5-C6-N1	14.71	118.85	111.50
25	BB	1177	G	N3-C2-N2	-14.70	109.61	119.90
3	A1	196	A	N1-C6-N6	-14.70	109.78	118.60
25	BB	2035	G	C6-N1-C2	-14.70	116.28	125.10
25	BB	2896	C	C6-N1-C2	-14.70	114.42	120.30
25	BB	229	C	N3-C4-C5	14.70	127.78	121.90
25	BB	2808	G	O4'-C1'-N9	14.70	119.96	108.20
3	A1	1349	A	C5-C6-N1	14.69	125.05	117.70
25	BB	2440	C	C1'-O4'-C4'	-14.70	98.14	109.90
25	BB	470	A	N1-C6-N6	-14.69	109.78	118.60
1	AA	38	A	C5-C6-N1	14.69	125.04	117.70
3	A1	228	A	C4-C5-C6	-14.69	109.66	117.00
25	BB	1243	C	C2-N3-C4	-14.69	112.56	119.90
25	BB	155	A	C4-C5-C6	-14.68	109.66	117.00
3	A1	553	A	N1-C6-N6	-14.67	109.80	118.60
25	BB	219	A	C5-C6-N1	14.67	125.04	117.70
25	BB	1084	A	N1-C6-N6	-14.67	109.80	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2021	C	N3-C4-C5	14.67	127.77	121.90
25	BB	2153	C	C6-N1-C2	-14.66	114.44	120.30
24	BA	9	G	N7-C8-N9	14.66	120.43	113.10
25	BB	2274	A	C1'-O4'-C4'	-14.66	98.17	109.90
3	A1	180	U	C5-C6-N1	14.66	130.03	122.70
25	BB	2575	C	N3-C2-O2	-14.66	111.64	121.90
3	A1	738	C	N3-C2-O2	-14.65	111.64	121.90
25	BB	957	C	N3-C2-O2	-14.65	111.64	121.90
25	BB	1267	U	N3-C2-O2	-14.65	111.95	122.20
25	BB	1908	C	N3-C2-O2	-14.64	111.65	121.90
25	BB	1724	G	C6-C5-N7	14.64	139.19	130.40
3	A1	924	C	C5-C6-N1	-14.64	113.68	121.00
25	BB	1926	U	C5-C6-N1	-14.64	115.38	122.70
3	A1	135	C	N3-C4-N4	-14.63	107.76	118.00
3	A1	1467	C	C2-N3-C4	-14.63	112.58	119.90
25	BB	1530	G	C2-N3-C4	14.63	119.21	111.90
25	BB	714	U	N3-C2-O2	-14.63	111.96	122.20
3	A1	1501	C	C2-N3-C4	-14.63	112.59	119.90
3	A1	806	C	C2-N3-C4	-14.62	112.59	119.90
3	A1	1157	A	C5-C6-N1	14.62	125.01	117.70
25	BB	2534	A	N1-C6-N6	-14.62	109.83	118.60
25	BB	1629	U	C4-C5-C6	14.62	128.47	119.70
25	BB	2090	A	C5-C6-N1	14.62	125.01	117.70
49	BZ	122	ARG	NE-CZ-NH1	14.62	127.61	120.30
25	BB	302	C	N3-C4-C5	14.62	127.75	121.90
25	BB	1381	G	C4-C5-N7	-14.62	104.95	110.80
25	BB	244	A	N1-C6-N6	-14.62	109.83	118.60
3	A1	568	G	N9-C4-C5	14.61	111.24	105.40
25	BB	161	A	N1-C6-N6	-14.61	109.83	118.60
25	BB	1450	G	N3-C2-N2	-14.61	109.67	119.90
17	AR	46	ARG	NE-CZ-NH1	14.61	127.60	120.30
25	BB	1999	C	N3-C2-O2	-14.61	111.67	121.90
25	BB	1036	G	C6-C5-N7	14.60	139.16	130.40
3	A1	790	A	N1-C6-N6	-14.60	109.84	118.60
25	BB	2314	A	N1-C6-N6	-14.59	109.84	118.60
3	A1	584	G	C8-N9-C4	-14.59	100.56	106.40
25	BB	2699	C	N3-C2-O2	-14.59	111.69	121.90
3	A1	11	G	N1-C6-O6	-14.59	111.15	119.90
1	AE	49	C	N3-C4-C5	14.59	127.73	121.90
3	A1	1410	A	N1-C6-N6	-14.59	109.85	118.60
3	A1	548	G	N7-C8-N9	14.58	120.39	113.10
25	BB	2038	G	N1-C6-O6	-14.58	111.15	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	74	A	C5-C6-N1	14.58	124.99	117.70
25	BB	508	A	C1'-O4'-C4'	-14.58	98.24	109.90
24	BA	13	G	C5-C6-N1	14.58	118.79	111.50
3	A1	152	A	C5-C6-N1	14.58	124.99	117.70
3	A1	1336	C	N3-C4-C5	14.58	127.73	121.90
25	BB	42	A	C4-C5-C6	-14.58	109.71	117.00
25	BB	199	A	C4-C5-N7	14.58	117.99	110.70
31	BH	25	ARG	NE-CZ-NH1	14.58	127.59	120.30
3	A1	1449	C	N3-C2-O2	-14.57	111.70	121.90
8	AG	84	ARG	NE-CZ-NH1	14.57	127.58	120.30
25	BB	141	G	C5-C6-N1	14.56	118.78	111.50
25	BB	21	A	N1-C6-N6	-14.56	109.86	118.60
3	A1	314	C	C4-C5-C6	-14.56	110.12	117.40
25	BB	186	G	N9-C4-C5	14.56	111.22	105.40
25	BB	583	G	C8-N9-C4	-14.56	100.58	106.40
25	BB	765	C	N3-C2-O2	-14.56	111.71	121.90
25	BB	945	A	N1-C6-N6	-14.56	109.87	118.60
1	AE	74	C	N3-C4-C5	14.55	127.72	121.90
25	BB	804	A	C5-C6-N1	14.55	124.97	117.70
3	A1	441	A	C5-C6-N1	14.55	124.97	117.70
25	BB	869	G	N3-C2-N2	-14.55	109.72	119.90
25	BB	2462	C	N3-C4-C5	14.55	127.72	121.90
3	A1	894	G	N3-C4-C5	-14.55	121.33	128.60
25	BB	547	A	N1-C6-N6	-14.55	109.87	118.60
25	BB	2625	G	N7-C8-N9	14.54	120.37	113.10
25	BB	915	C	N3-C4-C5	14.54	127.72	121.90
3	A1	907	A	C4-C5-C6	-14.54	109.73	117.00
25	BB	2411	A	N1-C6-N6	-14.54	109.88	118.60
1	AE	27	C	N3-C4-C5	14.54	127.72	121.90
25	BB	772	C	N3-C2-O2	-14.54	111.72	121.90
25	BB	1118	C	C2-N3-C4	-14.54	112.63	119.90
3	A1	429	U	C5-C6-N1	-14.53	115.43	122.70
25	BB	1239	G	N9-C4-C5	14.53	111.21	105.40
3	A1	328	C	O4'-C1'-N1	14.53	119.82	108.20
25	BB	879	G	C6-N1-C2	-14.53	116.38	125.10
24	BA	113	C	N3-C2-O2	-14.53	111.73	121.90
3	A1	563	A	C5-C6-N1	14.52	124.96	117.70
3	A1	768	A	N1-C6-N6	-14.52	109.89	118.60
25	BB	2560	A	C6-N1-C2	-14.52	109.89	118.60
25	BB	1221	C	C2-N3-C4	-14.52	112.64	119.90
3	A1	474	G	C8-N9-C4	-14.51	100.60	106.40
25	BB	512	G	N1-C6-O6	-14.51	111.19	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	579	G	N1-C6-O6	-14.51	111.20	119.90
25	BB	1286	A	N1-C6-N6	-14.51	109.90	118.60
3	A1	1228	C	C6-N1-C2	-14.50	114.50	120.30
25	BB	1032	A	N1-C6-N6	-14.50	109.90	118.60
3	A1	1360	A	N1-C6-N6	-14.50	109.90	118.60
3	A1	944	G	N1-C2-N3	14.50	132.60	123.90
3	A1	1167	A	N1-C6-N6	-14.50	109.90	118.60
25	BB	478	A	C5-C6-N1	14.49	124.95	117.70
25	BB	1387	A	C5-C6-N1	14.49	124.95	117.70
25	BB	2388	A	C5-C6-N1	14.49	124.95	117.70
25	BB	141	G	C4-C5-C6	-14.49	110.11	118.80
3	A1	579	A	C5-C6-N1	14.48	124.94	117.70
3	A1	1080	A	C8-N9-C4	-14.48	100.01	105.80
25	BB	1046	A	C5-C6-N1	14.48	124.94	117.70
3	A1	1378	C	N3-C4-C5	14.48	127.69	121.90
25	BB	1603	A	N1-C6-N6	-14.48	109.91	118.60
1	AE	27	C	O4'-C1'-N1	14.48	119.78	108.20
25	BB	1334	G	O4'-C1'-N9	14.48	119.79	108.20
25	BB	2030	A	C5-C6-N1	14.48	124.94	117.70
25	BB	979	A	C4-C5-C6	-14.48	109.76	117.00
25	BB	2841	C	N3-C4-C5	14.48	127.69	121.90
25	BB	1533	C	O4'-C1'-N1	14.48	119.78	108.20
25	BB	1491	G	C8-N9-C4	-14.47	100.61	106.40
25	BB	2183	A	N1-C6-N6	-14.47	109.92	118.60
25	BB	1960	A	O4'-C1'-N9	14.47	119.78	108.20
25	BB	2879	A	N1-C6-N6	-14.47	109.92	118.60
25	BB	1027	A	N1-C6-N6	-14.47	109.92	118.60
25	BB	1711	A	N1-C6-N6	-14.47	109.92	118.60
3	A1	220	G	C4-C5-N7	-14.47	105.01	110.80
25	BB	1547	C	N3-C2-O2	-14.46	111.78	121.90
3	A1	196	A	C4-C5-C6	-14.46	109.77	117.00
3	A1	1032	G	N1-C6-O6	-14.45	111.23	119.90
25	BB	413	C	N3-C2-O2	-14.46	111.78	121.90
25	BB	947	A	C4-C5-C6	-14.46	109.77	117.00
3	A1	1408	A	N1-C6-N6	-14.45	109.93	118.60
25	BB	2711	A	N1-C6-N6	-14.45	109.93	118.60
3	A1	250	A	N1-C6-N6	-14.45	109.93	118.60
3	A1	420	U	C5-C6-N1	-14.45	115.48	122.70
25	BB	595	C	O4'-C1'-N1	14.45	119.76	108.20
25	BB	1225	G	N1-C6-O6	-14.45	111.23	119.90
3	A1	937	A	N1-C6-N6	-14.44	109.94	118.60
3	A1	1299	A	C5-C6-N1	14.44	124.92	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1557	C	C5-C4-N4	14.44	130.31	120.20
25	BB	320	A	N1-C6-N6	-14.44	109.94	118.60
25	BB	692	C	N1-C2-O2	14.44	127.56	118.90
25	BB	1357	C	N3-C4-C5	14.44	127.67	121.90
1	AA	58	A	N1-C6-N6	-14.44	109.94	118.60
25	BB	2108	A	C5-C6-N1	14.44	124.92	117.70
25	BB	1876	A	N1-C6-N6	-14.43	109.94	118.60
25	BB	2716	C	N3-C2-O2	-14.43	111.80	121.90
3	A1	1109	C	N3-C2-O2	-14.43	111.80	121.90
6	AD	30	ARG	NE-CZ-NH1	14.43	127.51	120.30
25	BB	2307	G	N7-C8-N9	14.43	120.31	113.10
3	A1	900	A	N1-C6-N6	-14.42	109.95	118.60
25	BB	1251	C	N3-C2-O2	-14.42	111.80	121.90
25	BB	2846	G	C4-C5-N7	-14.42	105.03	110.80
1	AP	44	A	N1-C6-N6	-14.42	109.95	118.60
3	A1	16	A	C4-C5-C6	-14.42	109.79	117.00
25	BB	1952	A	C4-C5-C6	-14.42	109.79	117.00
25	BB	2363	G	C8-N9-C4	-14.42	100.63	106.40
3	A1	872	A	C5-C6-N1	14.42	124.91	117.70
25	BB	1448	G	N7-C8-N9	14.42	120.31	113.10
24	BA	27	C	N3-C2-O2	-14.41	111.81	121.90
25	BB	1548	A	N1-C6-N6	-14.41	109.95	118.60
25	BB	2702	G	C5-C6-O6	14.41	137.25	128.60
25	BB	1491	G	C4-C5-N7	-14.41	105.04	110.80
25	BB	906	U	O4'-C1'-N1	14.41	119.73	108.20
25	BB	1167	C	C6-N1-C2	-14.41	114.54	120.30
25	BB	127	A	C5-C6-N1	14.40	124.90	117.70
3	A1	1179	A	N1-C6-N6	-14.40	109.96	118.60
3	A1	1319	A	C5-C6-N1	14.40	124.90	117.70
25	BB	1319	C	N3-C2-O2	-14.40	111.82	121.90
25	BB	126	A	N1-C6-N6	-14.39	109.96	118.60
25	BB	1484	U	C5-C6-N1	-14.39	115.50	122.70
3	A1	1441	A	C5-C6-N1	14.39	124.90	117.70
25	BB	502	A	N1-C6-N6	-14.38	109.97	118.60
25	BB	526	A	C4-C5-C6	-14.38	109.81	117.00
25	BB	1265	A	N1-C2-N3	-14.38	122.11	129.30
25	BB	2078	C	N3-C4-N4	-14.38	107.93	118.00
25	BB	270	A	C4-C5-C6	-14.38	109.81	117.00
25	BB	1451	C	N3-C4-C5	14.38	127.65	121.90
25	BB	1743	G	N1-C6-O6	-14.38	111.27	119.90
25	BB	685	A	C4-C5-C6	-14.38	109.81	117.00
25	BB	1251	C	C6-N1-C2	-14.38	114.55	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1250	A	N1-C6-N6	-14.37	109.98	118.60
25	BB	2453	A	N9-C4-C5	14.37	111.55	105.80
4	AB	20	ARG	NE-CZ-NH1	14.37	127.48	120.30
25	BB	2703	C	N3-C2-O2	-14.36	111.84	121.90
25	BB	2604	U	C5-C6-N1	-14.36	115.52	122.70
25	BB	973	A	C5-C6-N6	14.36	135.19	123.70
3	A1	1236	A	C5-C6-N1	14.36	124.88	117.70
25	BB	299	A	C5-C6-N1	14.36	124.88	117.70
3	A1	872	A	N1-C6-N6	-14.36	109.99	118.60
3	A1	131	A	C4-C5-C6	-14.36	109.82	117.00
25	BB	982	C	N3-C4-C5	14.36	127.64	121.90
3	A1	1250	A	C4-C5-C6	-14.35	109.82	117.00
25	BB	1755	A	C2-N3-C4	14.35	117.78	110.60
25	BB	2424	C	N3-C4-N4	-14.35	107.96	118.00
30	BG	17	ARG	NE-CZ-NH2	14.35	127.47	120.30
3	A1	160	A	C5-C6-N1	14.34	124.87	117.70
3	A1	681	A	C4-C5-C6	-14.34	109.83	117.00
3	A1	888	G	N1-C6-O6	-14.34	111.30	119.90
3	A1	21	G	N1-C6-O6	-14.33	111.30	119.90
3	A1	669	G	C5-C6-N1	14.33	118.66	111.50
25	BB	959	A	C5-C6-N1	14.32	124.86	117.70
50	B1	117	ARG	NE-CZ-NH1	14.32	127.46	120.30
25	BB	1009	A	N1-C6-N6	-14.32	110.01	118.60
25	BB	2314	A	C5-C6-N1	14.31	124.86	117.70
21	AV	76	ARG	NE-CZ-NH2	14.31	127.45	120.30
25	BB	875	G	C8-N9-C4	-14.31	100.68	106.40
25	BB	1118	C	N3-C4-C5	14.31	127.62	121.90
25	BB	1384	A	C4-C5-C6	-14.31	109.85	117.00
25	BB	1572	A	N1-C6-N6	-14.31	110.02	118.60
25	BB	1938	A	C5-C6-N1	14.30	124.85	117.70
3	A1	263	A	C5-C6-N1	14.30	124.85	117.70
3	A1	546	A	N1-C2-N3	-14.30	122.15	129.30
25	BB	265	A	C5-C6-N1	14.30	124.85	117.70
25	BB	482	A	C6-N1-C2	-14.30	110.02	118.60
25	BB	1072	C	N3-C2-O2	-14.30	111.89	121.90
25	BB	1934	C	C2-N3-C4	-14.29	112.75	119.90
25	BB	2443	C	N3-C4-C5	14.29	127.62	121.90
25	BB	892	A	C5-C6-N1	14.29	124.84	117.70
25	BB	1640	A	N1-C6-N6	-14.29	110.03	118.60
3	A1	1497	G	N7-C8-N9	14.28	120.24	113.10
25	BB	2459	A	C5-C6-N1	14.29	124.84	117.70
25	BB	2813	A	C5-N7-C8	-14.29	96.76	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	714	G	N3-C4-C5	-14.28	121.46	128.60
3	A1	953	G	N1-C2-N3	14.28	132.47	123.90
25	BB	1301	A	O4'-C1'-N9	14.28	119.63	108.20
25	BB	1413	A	N1-C6-N6	-14.28	110.03	118.60
1	AP	25	C	C3'-C2'-C1'	14.28	112.92	101.50
24	BA	39	A	N1-C6-N6	-14.28	110.03	118.60
1	AA	45	G	N1-C6-O6	-14.28	111.33	119.90
25	BB	1739	A	C5-C6-N1	14.28	124.84	117.70
25	BB	1177	G	N1-C6-O6	-14.28	111.33	119.90
25	BB	2870	C	N3-C4-N4	-14.28	108.01	118.00
25	BB	945	A	C4-C5-C6	-14.27	109.86	117.00
3	A1	1046	A	C8-N9-C4	-14.27	100.09	105.80
24	BA	31	C	C2-N3-C4	-14.27	112.76	119.90
3	A1	1045	C	N3-C4-C5	14.27	127.61	121.90
25	BB	2264	C	O4'-C1'-N1	14.27	119.61	108.20
25	BB	2772	C	N3-C4-C5	14.27	127.61	121.90
25	BB	2789	C	N3-C2-O2	-14.27	111.91	121.90
25	BB	1789	A	C5-C6-N1	14.27	124.83	117.70
25	BB	2157	G	C5-C6-O6	14.27	137.16	128.60
3	A1	408	A	C6-C5-N7	14.26	142.28	132.30
25	BB	1473	G	N3-C2-N2	-14.26	109.92	119.90
3	A1	550	G	C4-C5-N7	-14.26	105.10	110.80
1	AP	69	U	C2-N3-C4	-14.26	118.45	127.00
25	BB	1252	G	O4'-C1'-N9	14.26	119.61	108.20
25	BB	2600	A	C5-C6-N6	14.26	135.11	123.70
3	A1	481	G	N3-C2-N2	-14.25	109.92	119.90
25	BB	2709	G	C5-C6-N1	14.25	118.63	111.50
25	BB	2883	A	N1-C6-N6	-14.25	110.05	118.60
25	BB	845	A	C5-C6-N1	14.24	124.82	117.70
25	BB	2226	C	N3-C4-N4	-14.24	108.03	118.00
25	BB	2340	A	C5-C6-N1	14.24	124.82	117.70
3	A1	397	A	C5-C6-N1	14.24	124.82	117.70
25	BB	1188	U	N3-C2-O2	-14.24	112.23	122.20
2	AM	17	U	C5-C6-N1	-14.24	115.58	122.70
3	A1	753	A	N1-C6-N6	-14.24	110.06	118.60
25	BB	439	A	N1-C6-N6	-14.24	110.06	118.60
25	BB	1153	C	C2-N3-C4	-14.24	112.78	119.90
25	BB	1270	C	N3-C2-O2	-14.24	111.93	121.90
25	BB	63	A	N1-C6-N6	-14.23	110.06	118.60
25	BB	500	G	N1-C6-O6	-14.23	111.36	119.90
25	BB	539	G	N1-C6-O6	-14.23	111.36	119.90
1	AE	14	A	C5-C6-N1	14.23	124.81	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	113	G	C4-C5-N7	-14.23	105.11	110.80
25	BB	2860	A	N1-C6-N6	-14.23	110.06	118.60
25	BB	2406	A	C5-C6-N1	14.22	124.81	117.70
25	BB	2662	A	N9-C4-C5	-14.22	100.11	105.80
3	A1	1302	C	N3-C2-O2	-14.22	111.94	121.90
3	A1	1459	G	N1-C6-O6	-14.22	111.37	119.90
3	A1	1394	A	C5-C6-N1	14.22	124.81	117.70
25	BB	52	A	C5-C6-N1	14.22	124.81	117.70
25	BB	644	A	C2-N3-C4	14.21	117.71	110.60
25	BB	789	A	N1-C6-N6	-14.21	110.07	118.60
25	BB	1503	A	C5-C6-N1	14.21	124.81	117.70
3	A1	1484	C	O5'-P-OP1	-14.21	92.91	105.70
3	A1	260	G	O4'-C1'-N9	14.21	119.57	108.20
25	BB	2268	A	N1-C6-N6	-14.21	110.08	118.60
25	BB	2750	A	C5-C6-N1	14.21	124.81	117.70
3	A1	64	G	N3-C2-N2	-14.21	109.96	119.90
25	BB	918	A	C4-C5-C6	-14.20	109.90	117.00
25	BB	1150	C	N3-C4-C5	14.20	127.58	121.90
25	BB	612	G	N3-C4-C5	-14.20	121.50	128.60
25	BB	2683	C	C2-N3-C4	-14.20	112.80	119.90
3	A1	471	U	C4-C5-C6	14.20	128.22	119.70
3	A1	1110	A	C2-N3-C4	14.20	117.70	110.60
25	BB	575	A	C2-N3-C4	14.20	117.70	110.60
25	BB	2208	C	C6-N1-C2	-14.20	114.62	120.30
3	A1	743	A	C4-C5-C6	-14.19	109.90	117.00
3	A1	1163	A	N1-C6-N6	-14.19	110.08	118.60
25	BB	945	A	C5-C6-N1	14.19	124.80	117.70
3	A1	1117	A	C2-N3-C4	14.19	117.69	110.60
25	BB	774	G	C5-C6-N1	14.19	118.59	111.50
30	BG	12	ARG	NE-CZ-NH1	14.19	127.39	120.30
25	BB	1932	A	N1-C2-N3	-14.18	122.21	129.30
25	BB	2590	A	N1-C6-N6	-14.18	110.09	118.60
3	A1	441	A	C4-C5-C6	-14.18	109.91	117.00
25	BB	1055	G	N1-C6-O6	-14.17	111.40	119.90
3	A1	841	C	N1-C2-O2	14.17	127.40	118.90
3	A1	1465	A	C5-C6-N1	14.17	124.78	117.70
3	A1	26	A	C2-N3-C4	14.17	117.68	110.60
3	A1	895	G	N1-C6-O6	-14.17	111.40	119.90
3	A1	1511	G	N1-C6-O6	-14.17	111.40	119.90
3	A1	961	U	C5-C6-N1	-14.16	115.62	122.70
25	BB	1268	A	N1-C6-N6	-14.16	110.10	118.60
24	BA	5	U	C4'-C3'-C2'	-14.16	88.44	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1133	A	C2-N3-C4	14.16	117.68	110.60
25	BB	718	A	C5-C6-N1	14.15	124.78	117.70
25	BB	1067	A	C6-C5-N7	14.15	142.20	132.30
25	BB	1853	A	N1-C6-N6	-14.15	110.11	118.60
25	BB	2539	C	C6-N1-C2	-14.15	114.64	120.30
25	BB	1890	A	C5-C6-N6	14.15	135.02	123.70
25	BB	2518	A	C5-C6-N6	14.14	135.02	123.70
3	A1	564	C	C1'-O4'-C4'	-14.14	98.59	109.90
25	BB	1965	C	N3-C4-N4	-14.14	108.10	118.00
3	A1	899	C	N3-C4-C5	14.14	127.56	121.90
3	A1	681	A	C5-C6-N1	14.14	124.77	117.70
25	BB	36	G	N3-C4-C5	-14.13	121.53	128.60
25	BB	520	G	N1-C6-O6	-14.13	111.42	119.90
3	A1	1230	C	N1-C2-O2	14.13	127.38	118.90
25	BB	146	A	N1-C6-N6	-14.13	110.12	118.60
25	BB	1117	C	N3-C4-C5	14.13	127.55	121.90
25	BB	226	A	N1-C6-N6	-14.13	110.12	118.60
25	BB	262	A	C2-N3-C4	14.12	117.66	110.60
3	A1	203	G	C5-C6-N1	14.12	118.56	111.50
25	BB	432	A	N1-C6-N6	-14.12	110.13	118.60
3	A1	68	G	C5-C6-N1	14.12	118.56	111.50
25	BB	239	C	N3-C2-O2	-14.12	112.02	121.90
25	BB	548	G	N3-C2-N2	-14.12	110.02	119.90
25	BB	2543	G	C8-N9-C4	-14.11	100.75	106.40
25	BB	866	A	N1-C6-N6	-14.11	110.13	118.60
3	A1	198	G	C4-C5-N7	-14.11	105.16	110.80
25	BB	179	C	O4'-C1'-N1	14.11	119.49	108.20
25	BB	770	G	N1-C6-O6	-14.11	111.44	119.90
25	BB	1586	A	N1-C6-N6	-14.11	110.14	118.60
25	BB	1332	G	N1-C6-O6	-14.10	111.44	119.90
3	A1	996	A	C4-C5-C6	-14.10	109.95	117.00
25	BB	1936	A	N1-C6-N6	-14.10	110.14	118.60
25	BB	2114	A	N1-C6-N6	-14.09	110.15	118.60
25	BB	1420	A	N1-C6-N6	-14.09	110.15	118.60
25	BB	1404	C	N3-C2-O2	-14.09	112.04	121.90
1	AA	63	C	C2-N3-C4	-14.08	112.86	119.90
1	AE	75	C	N3-C4-C5	14.08	127.53	121.90
3	A1	116	A	C5-C6-N1	14.08	124.74	117.70
3	A1	299	G	N9-C4-C5	14.08	111.03	105.40
3	A1	888	G	C5-C6-N1	14.08	118.54	111.50
25	BB	332	A	N7-C8-N9	14.08	120.84	113.80
25	BB	2708	G	C6-C5-N7	14.08	138.85	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	368	A	N1-C6-N6	-14.08	110.15	118.60
3	A1	1437	A	C5-C6-N1	14.08	124.74	117.70
25	BB	1711	A	C5-C6-N1	14.08	124.74	117.70
25	BB	1805	A	N1-C2-N3	-14.08	122.26	129.30
25	BB	2313	C	C5-C6-N1	-14.07	113.96	121.00
5	AC	126	ARG	NE-CZ-NH2	14.07	127.34	120.30
25	BB	438	G	C8-N9-C4	-14.07	100.77	106.40
25	BB	1451	C	N3-C4-N4	-14.07	108.15	118.00
25	BB	641	U	N3-C2-O2	-14.07	112.35	122.20
3	A1	784	A	C5-C6-N1	14.07	124.73	117.70
25	BB	197	A	N1-C6-N6	-14.07	110.16	118.60
25	BB	1474	U	C3'-C2'-C1'	14.07	112.75	101.50
25	BB	1230	A	C5-C6-N1	14.06	124.73	117.70
25	BB	681	G	C4-C5-N7	-14.06	105.18	110.80
25	BB	1096	A	N1-C6-N6	-14.06	110.16	118.60
25	BB	2524	G	O4'-C1'-N9	14.06	119.45	108.20
3	A1	50	A	C5-C6-N1	14.06	124.73	117.70
25	BB	682	G	N3-C4-C5	-14.05	121.58	128.60
25	BB	2210	U	C5-C6-N1	-14.05	115.67	122.70
25	BB	2451	A	N1-C2-N3	-14.05	122.28	129.30
25	BB	350	G	O4'-C1'-N9	14.04	119.44	108.20
25	BB	2646	C	N3-C2-O2	-14.05	112.07	121.90
3	A1	602	A	N1-C6-N6	-14.04	110.17	118.60
25	BB	1365	A	N1-C6-N6	-14.04	110.17	118.60
25	BB	1790	C	O4'-C1'-N1	14.04	119.43	108.20
25	BB	1139	G	C5-C6-N1	14.04	118.52	111.50
3	A1	665	A	C2-N3-C4	14.04	117.62	110.60
25	BB	228	C	N1-C2-O2	14.04	127.32	118.90
3	A1	1441	A	C4-C5-C6	-14.04	109.98	117.00
25	BB	574	A	N9-C4-C5	14.04	111.42	105.80
25	BB	921	C	C2-N3-C4	-14.03	112.89	119.90
39	BP	13	ARG	NE-CZ-NH2	-14.03	113.29	120.30
25	BB	1196	C	N3-C4-N4	-14.03	108.18	118.00
25	BB	1754	A	N1-C6-N6	-14.03	110.18	118.60
16	AQ	6	ARG	NE-CZ-NH1	14.02	127.31	120.30
25	BB	421	C	N3-C4-C5	14.02	127.51	121.90
25	BB	2327	A	C4-C5-C6	-14.02	109.99	117.00
25	BB	213	A	N1-C6-N6	-14.02	110.19	118.60
25	BB	608	A	C6-N1-C2	-14.02	110.19	118.60
25	BB	2716	C	N3-C4-N4	-14.02	108.19	118.00
10	AI	56	ARG	NE-CZ-NH1	14.02	127.31	120.30
1	AP	66	A	C5-C6-N1	14.01	124.71	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	142	A	N1-C6-N6	-14.01	110.19	118.60
1	AA	74	C	O4'-C1'-C2'	-14.01	91.79	105.80
3	A1	1112	C	N3-C4-C5	14.01	127.50	121.90
1	AE	73	A	C4-C5-C6	-14.01	110.00	117.00
3	A1	920	U	N3-C2-O2	-14.01	112.40	122.20
3	A1	1392	G	N9-C4-C5	14.01	111.00	105.40
1	AP	18	G	N1-C2-N3	14.00	132.30	123.90
3	A1	202	G	N1-C6-O6	-14.00	111.50	119.90
25	BB	665	U	N3-C2-O2	-14.00	112.40	122.20
25	BB	2515	C	N1-C2-O2	14.00	127.30	118.90
25	BB	1431	A	C5-C6-N1	14.00	124.70	117.70
25	BB	2006	C	N3-C2-O2	-14.00	112.10	121.90
25	BB	2311	A	N1-C6-N6	-14.00	110.20	118.60
3	A1	1281	C	C5-C6-N1	-13.99	114.00	121.00
25	BB	678	C	C6-N1-C2	-13.99	114.70	120.30
25	BB	1245	G	N3-C2-N2	-13.99	110.11	119.90
25	BB	1616	A	C5-C6-N1	13.99	124.70	117.70
3	A1	39	G	N7-C8-N9	13.99	120.09	113.10
3	A1	929	G	N1-C6-O6	-13.99	111.51	119.90
25	BB	1175	A	C5-C6-N1	13.99	124.69	117.70
25	BB	420	C	N3-C4-C5	13.99	127.50	121.90
25	BB	1251	C	O4'-C1'-N1	13.99	119.39	108.20
25	BB	583	G	N3-C4-C5	-13.98	121.61	128.60
25	BB	255	A	C2-N3-C4	13.98	117.59	110.60
1	AE	61	C	N1-C2-O2	13.98	127.29	118.90
3	A1	523	A	N1-C6-N6	-13.98	110.21	118.60
25	BB	1998	A	N1-C6-N6	-13.98	110.21	118.60
3	A1	119	A	C8-N9-C4	-13.98	100.21	105.80
25	BB	1343	G	C6-N1-C2	-13.97	116.72	125.10
25	BB	2247	A	N1-C6-N6	-13.97	110.22	118.60
3	A1	893	C	N3-C4-N4	-13.97	108.22	118.00
3	A1	232	G	N3-C2-N2	-13.96	110.13	119.90
25	BB	2354	C	N1-C2-O2	13.96	127.28	118.90
25	BB	676	A	N1-C6-N6	-13.96	110.23	118.60
25	BB	438	G	N7-C8-N9	13.96	120.08	113.10
3	A1	663	A	C5-C6-N1	13.95	124.68	117.70
24	BA	31	C	C5-C6-N1	-13.95	114.02	121.00
25	BB	876	C	C2-N3-C4	-13.95	112.92	119.90
1	AA	45	G	C5-C6-O6	13.95	136.97	128.60
25	BB	1265	A	C5-N7-C8	-13.95	96.92	103.90
25	BB	1026	G	C8-N9-C4	-13.94	100.82	106.40
3	A1	924	C	O4'-C1'-N1	13.94	119.35	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1418	A	C2-N3-C4	13.94	117.57	110.60
25	BB	2217	G	N3-C2-N2	-13.94	110.14	119.90
1	AA	17	U	N1-C2-N3	13.94	123.26	114.90
1	AE	14	A	C4-C5-C6	-13.94	110.03	117.00
25	BB	1343	G	C8-N9-C4	-13.94	100.83	106.40
3	A1	878	A	N1-C6-N6	-13.94	110.24	118.60
25	BB	2225	A	C4-C5-C6	-13.94	110.03	117.00
25	BB	1264	A	N1-C6-N6	-13.93	110.24	118.60
25	BB	98	G	N3-C2-N2	-13.93	110.15	119.90
3	A1	155	A	N1-C6-N6	-13.93	110.24	118.60
25	BB	282	A	N1-C6-N6	-13.93	110.24	118.60
25	BB	2062	A	C5-C6-N1	13.93	124.67	117.70
25	BB	145	C	N3-C4-N4	-13.93	108.25	118.00
3	A1	595	A	O4'-C1'-N9	13.92	119.34	108.20
3	A1	923	A	C6-N1-C2	-13.92	110.25	118.60
3	A1	1507	A	N1-C6-N6	-13.92	110.25	118.60
25	BB	1065	U	O4'-C1'-N1	13.92	119.34	108.20
1	AP	5	A	C4-C5-C6	-13.92	110.04	117.00
3	A1	1124	G	N9-C4-C5	13.92	110.97	105.40
25	BB	679	C	N3-C2-O2	-13.92	112.16	121.90
25	BB	920	A	C8-N9-C4	-13.91	100.23	105.80
1	AE	14	A	N1-C6-N6	-13.91	110.25	118.60
25	BB	1810	A	C4-C5-C6	-13.91	110.04	117.00
3	A1	1457	G	N1-C6-O6	-13.91	111.55	119.90
25	BB	514	A	C4-C5-C6	-13.91	110.05	117.00
25	BB	832	U	C1'-O4'-C4'	-13.91	98.77	109.90
3	A1	520	A	C5-C6-N1	13.91	124.65	117.70
3	A1	459	A	N1-C6-N6	-13.90	110.26	118.60
25	BB	326	G	N7-C8-N9	13.90	120.05	113.10
25	BB	2153	C	C2-N3-C4	-13.90	112.95	119.90
28	BE	78	ARG	NE-CZ-NH2	13.90	127.25	120.30
3	A1	507	C	C3'-C2'-C1'	13.89	112.62	101.50
25	BB	600	G	C8-N9-C4	-13.89	100.84	106.40
3	A1	562	U	N3-C2-O2	-13.89	112.48	122.20
25	BB	2231	U	N3-C2-O2	-13.89	112.48	122.20
3	A1	694	A	N1-C6-N6	-13.88	110.27	118.60
3	A1	1055	A	N1-C6-N6	-13.88	110.27	118.60
23	AX	5	ARG	NE-CZ-NH2	-13.88	113.36	120.30
25	BB	857	G	N1-C6-O6	-13.88	111.57	119.90
3	A1	115	G	C5-C6-N1	13.87	118.44	111.50
3	A1	346	G	N3-C4-C5	-13.88	121.66	128.60
25	BB	255	A	C5-C6-N1	13.88	124.64	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	764	A	C4-C5-C6	-13.88	110.06	117.00
25	BB	2726	A	O4'-C1'-N9	13.88	119.30	108.20
1	AA	49	C	C2-N3-C4	-13.87	112.96	119.90
3	A1	682	G	O4'-C1'-N9	13.87	119.30	108.20
25	BB	1169	A	N1-C6-N6	-13.87	110.28	118.60
25	BB	2053	G	N3-C2-N2	-13.87	110.19	119.90
1	AE	7	U	C5-C6-N1	-13.87	115.77	122.70
3	A1	349	A	N1-C6-N6	-13.87	110.28	118.60
32	BI	87	ARG	NE-CZ-NH1	13.87	127.23	120.30
3	A1	1489	G	N3-C4-C5	-13.87	121.67	128.60
25	BB	356	G	N3-C4-N9	-13.87	117.68	126.00
25	BB	1819	A	C4-C5-C6	-13.87	110.07	117.00
1	AE	26	G	N1-C6-O6	-13.86	111.58	119.90
3	A1	732	C	C6-N1-C2	-13.86	114.76	120.30
3	A1	753	A	C5-C6-N1	13.86	124.63	117.70
7	AF	89	ARG	NE-CZ-NH1	13.86	127.23	120.30
25	BB	222	A	C5-C6-N1	13.86	124.63	117.70
24	BA	29	A	N1-C6-N6	-13.86	110.28	118.60
3	A1	546	A	C5-C6-N1	13.86	124.63	117.70
3	A1	1434	A	C5-N7-C8	-13.85	96.97	103.90
25	BB	863	A	N1-C6-N6	-13.85	110.29	118.60
3	A1	1215	G	N1-C6-O6	-13.85	111.59	119.90
25	BB	1838	C	C2-N3-C4	-13.85	112.98	119.90
25	BB	2425	A	C4-C5-C6	-13.85	110.08	117.00
25	BB	1039	A	C4-C5-C6	-13.84	110.08	117.00
3	A1	54	C	N3-C4-N4	-13.84	108.31	118.00
25	BB	971	G	O4'-C1'-N9	13.84	119.27	108.20
1	AP	3	G	N1-C6-O6	-13.84	111.60	119.90
25	BB	157	C	O4'-C1'-N1	13.84	119.27	108.20
25	BB	2559	C	N3-C2-O2	-13.84	112.21	121.90
1	AA	12	U	C4-C5-C6	13.83	128.00	119.70
1	AP	9	A	C4-C5-C6	-13.83	110.08	117.00
3	A1	1046	A	N9-C4-C5	13.83	111.33	105.80
25	BB	66	C	N3-C2-O2	-13.83	112.22	121.90
25	BB	1321	A	N1-C6-N6	-13.83	110.30	118.60
25	BB	2705	A	N1-C6-N6	-13.83	110.30	118.60
25	BB	1386	C	N3-C4-N4	-13.83	108.32	118.00
25	BB	2712	C	C2-N3-C4	-13.83	112.98	119.90
25	BB	219	A	N9-C4-C5	13.82	111.33	105.80
25	BB	1395	A	C2-N3-C4	13.82	117.51	110.60
25	BB	449	A	O4'-C1'-N9	13.82	119.26	108.20
3	A1	456	A	C4-C5-C6	-13.82	110.09	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	339	C	C6-N1-C2	-13.82	114.77	120.30
9	AH	16	ARG	NE-CZ-NH1	13.81	127.21	120.30
25	BB	1723	G	N1-C6-O6	-13.81	111.61	119.90
3	A1	553	A	N9-C4-C5	13.81	111.32	105.80
25	BB	324	A	C3'-C2'-C1'	13.81	112.55	101.50
25	BB	2725	A	N9-C4-C5	-13.80	100.28	105.80
3	A1	286	C	C2-N3-C4	-13.80	113.00	119.90
3	A1	931	C	N3-C4-N4	-13.80	108.34	118.00
25	BB	368	A	C5-C6-N1	13.80	124.60	117.70
25	BB	1269	A	C5-C6-N1	13.80	124.60	117.70
10	AI	28	ARG	NE-CZ-NH1	13.79	127.20	120.30
25	BB	975	A	C4-C5-C6	-13.79	110.11	117.00
3	A1	897	C	C2-N3-C4	-13.79	113.01	119.90
3	A1	1511	G	N7-C8-N9	13.79	119.99	113.10
25	BB	14	A	C4-C5-C6	-13.79	110.11	117.00
25	BB	379	G	C5-C6-N1	13.79	118.39	111.50
3	A1	648	A	C4-C5-C6	-13.78	110.11	117.00
18	AS	53	ARG	NE-CZ-NH2	-13.78	113.41	120.30
25	BB	615	U	N1-C2-N3	13.78	123.17	114.90
25	BB	1281	G	N1-C6-O6	-13.78	111.63	119.90
25	BB	1889	A	C6-N1-C2	-13.78	110.33	118.60
25	BB	1169	A	C5-C6-N1	13.78	124.59	117.70
1	AE	62	A	C4-C5-C6	-13.78	110.11	117.00
25	BB	1350	C	N3-C4-C5	13.78	127.41	121.90
1	AA	74	C	N3-C4-C5	13.78	127.41	121.90
3	A1	349	A	C4-C5-C6	-13.78	110.11	117.00
25	BB	1451	C	C6-N1-C2	-13.77	114.79	120.30
25	BB	792	A	O4'-C1'-N9	13.77	119.22	108.20
25	BB	2066	C	N3-C2-O2	-13.77	112.26	121.90
25	BB	2131	U	C5-C6-N1	-13.77	115.82	122.70
3	A1	18	C	N3-C4-C5	13.77	127.41	121.90
3	A1	373	A	C5-C6-N1	13.77	124.58	117.70
25	BB	2873	A	C5-C6-N1	13.76	124.58	117.70
3	A1	803	G	O4'-C1'-N9	13.76	119.21	108.20
24	BA	81	G	N9-C4-C5	13.76	110.91	105.40
3	A1	461	A	N1-C2-N3	-13.76	122.42	129.30
25	BB	678	C	C2-N3-C4	-13.76	113.02	119.90
25	BB	1603	A	C5-C6-N1	13.76	124.58	117.70
25	BB	1421	G	C8-N9-C4	-13.75	100.90	106.40
24	BA	73	A	C5-C6-N1	13.75	124.57	117.70
25	BB	96	C	C5-C6-N1	-13.75	114.13	121.00
25	BB	1428	C	N1-C2-O2	13.75	127.15	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2785	C	N1-C2-O2	13.75	127.15	118.90
3	A1	1488	G	N3-C4-C5	-13.74	121.73	128.60
25	BB	507	A	C5-C6-N1	13.74	124.57	117.70
3	A1	1077	G	C6-N1-C2	13.74	133.34	125.10
25	BB	1336	A	N1-C6-N6	-13.74	110.36	118.60
25	BB	230	G	C8-N9-C4	-13.73	100.91	106.40
25	BB	858	G	C8-N9-C4	-13.73	100.91	106.40
25	BB	2308	G	N1-C6-O6	-13.73	111.66	119.90
25	BB	1734	G	N3-C4-C5	-13.73	121.73	128.60
5	AC	105	ARG	NE-CZ-NH1	13.73	127.16	120.30
18	AS	156	ARG	NE-CZ-NH1	13.73	127.16	120.30
25	BB	275	C	N3-C2-O2	-13.73	112.29	121.90
25	BB	1448	G	O4'-C1'-N9	13.73	119.18	108.20
25	BB	758	C	N1-C2-O2	13.73	127.14	118.90
3	A1	1109	C	N1-C2-O2	13.72	127.13	118.90
25	BB	2108	A	C3'-C2'-C1'	-13.72	90.52	101.50
25	BB	2250	G	N1-C6-O6	-13.72	111.67	119.90
3	A1	344	A	C4-C5-C6	-13.72	110.14	117.00
24	BA	60	C	N3-C2-O2	-13.72	112.30	121.90
25	BB	1304	A	N1-C6-N6	-13.72	110.37	118.60
1	AP	58	A	C5-C6-N1	13.72	124.56	117.70
3	A1	371	A	C6-C5-N7	13.72	141.91	132.30
3	A1	791	G	C4-C5-N7	-13.72	105.31	110.80
3	A1	1063	C	N3-C4-C5	13.72	127.39	121.90
25	BB	1937	A	N1-C6-N6	-13.72	110.37	118.60
20	AU	94	ARG	NE-CZ-NH1	13.72	127.16	120.30
3	A1	1443	C	N1-C2-O2	13.71	127.13	118.90
25	BB	75	G	N7-C8-N9	13.72	119.96	113.10
24	BA	21	G	N3-C2-N2	-13.71	110.30	119.90
25	BB	791	C	C5-C6-N1	-13.71	114.14	121.00
3	A1	1360	A	C8-N9-C4	-13.71	100.32	105.80
24	BA	98	G	C8-N9-C4	-13.71	100.92	106.40
3	A1	116	A	C4-C5-C6	-13.71	110.15	117.00
3	A1	645	G	C8-N9-C4	-13.71	100.92	106.40
25	BB	1590	A	C4-C5-N7	13.71	117.55	110.70
25	BB	556	A	N1-C6-N6	-13.70	110.38	118.60
3	A1	78	A	N1-C6-N6	-13.70	110.38	118.60
3	A1	195	A	C2-N3-C4	13.70	117.45	110.60
25	BB	151	C	N3-C4-C5	13.70	127.38	121.90
25	BB	1466	U	N3-C2-O2	-13.70	112.61	122.20
25	BB	1477	A	C3'-C2'-C1'	13.70	112.46	101.50
25	BB	1359	A	N1-C6-N6	-13.70	110.38	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1016	A	C5-C6-N1	13.70	124.55	117.70
25	BB	2268	A	C5-C6-N1	13.70	124.55	117.70
25	BB	1849	G	N1-C6-O6	-13.69	111.69	119.90
25	BB	1328	A	N1-C6-N6	-13.69	110.39	118.60
25	BB	2828	G	C4-C5-N7	-13.69	105.32	110.80
25	BB	267	C	N3-C2-O2	-13.69	112.32	121.90
25	BB	491	G	N1-C6-O6	-13.69	111.69	119.90
7	AF	108	ARG	NE-CZ-NH1	13.68	127.14	120.30
25	BB	1143	A	N1-C6-N6	-13.68	110.39	118.60
25	BB	1859	U	C5-C6-N1	-13.68	115.86	122.70
25	BB	1702	G	C8-N9-C4	-13.68	100.93	106.40
1	AP	64	A	C5-N7-C8	-13.68	97.06	103.90
3	A1	430	A	C5-C6-N6	13.68	134.64	123.70
1	AE	41	U	O4'-C1'-N1	13.68	119.14	108.20
25	BB	384	A	N9-C4-C5	13.68	111.27	105.80
25	BB	753	A	C5-C6-N1	13.68	124.54	117.70
25	BB	121	G	C5-C6-N1	13.67	118.34	111.50
25	BB	770	G	C5-C6-N1	13.67	118.34	111.50
25	BB	2032	G	C4-C5-N7	-13.67	105.33	110.80
3	A1	1437	A	C4-C5-C6	-13.67	110.16	117.00
3	A1	1236	A	N1-C6-N6	-13.67	110.40	118.60
25	BB	49	A	N1-C6-N6	-13.66	110.40	118.60
25	BB	362	A	O4'-C1'-N9	13.66	119.13	108.20
25	BB	275	C	N1-C2-O2	13.66	127.10	118.90
25	BB	2655	G	N1-C6-O6	-13.66	111.70	119.90
16	AQ	17	ARG	NE-CZ-NH1	13.66	127.13	120.30
25	BB	221	A	N1-C6-N6	-13.66	110.40	118.60
25	BB	753	A	N1-C6-N6	-13.66	110.40	118.60
25	BB	1296	G	C2-N3-C4	13.66	118.73	111.90
55	B6	37	ARG	NE-CZ-NH2	13.66	127.13	120.30
25	BB	1505	A	N1-C6-N6	-13.66	110.41	118.60
25	BB	1771	C	N3-C2-O2	-13.66	112.34	121.90
25	BB	261	G	C5-C6-N1	13.66	118.33	111.50
25	BB	930	G	C3'-C2'-C1'	13.66	112.43	101.50
24	BA	69	G	N9-C4-C5	13.66	110.86	105.40
25	BB	1247	A	N1-C6-N6	-13.65	110.41	118.60
25	BB	1361	G	N3-C4-C5	-13.65	121.77	128.60
25	BB	2683	C	N3-C4-C5	13.65	127.36	121.90
3	A1	402	G	N3-C2-N2	-13.65	110.34	119.90
7	AF	108	ARG	NE-CZ-NH2	-13.65	113.47	120.30
25	BB	1721	G	O4'-C1'-N9	13.65	119.12	108.20
3	A1	84	U	C5-C6-N1	-13.65	115.88	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2547	A	N1-C6-N6	-13.65	110.41	118.60
25	BB	2644	G	N3-C4-C5	-13.65	121.78	128.60
25	BB	1260	A	N1-C6-N6	-13.64	110.42	118.60
25	BB	1611	C	C2-N3-C4	-13.64	113.08	119.90
3	A1	700	G	N3-C4-C5	-13.64	121.78	128.60
3	A1	913	A	N1-C6-N6	-13.64	110.42	118.60
3	A1	81	A	C8-N9-C4	-13.64	100.34	105.80
25	BB	2581	G	O4'-C1'-N9	13.63	119.11	108.20
3	A1	1521	C	N3-C2-O2	-13.63	112.36	121.90
25	BB	1551	A	N1-C6-N6	-13.63	110.42	118.60
25	BB	2114	A	C5-C6-N1	13.63	124.51	117.70
25	BB	404	A	C5-C6-N1	13.62	124.51	117.70
3	A1	382	A	C4-C5-C6	-13.62	110.19	117.00
25	BB	781	A	C4-C5-C6	-13.62	110.19	117.00
25	BB	867	C	N1-C2-O2	13.62	127.07	118.90
25	BB	408	G	C5-N7-C8	-13.62	97.49	104.30
24	BA	99	A	C5-C6-N6	13.61	134.59	123.70
24	BA	115	A	C2-N3-C4	13.61	117.41	110.60
3	A1	1407	C	N1-C2-O2	13.61	127.07	118.90
25	BB	1931	U	C5-C4-O4	13.61	134.07	125.90
25	BB	1997	C	N1-C2-O2	13.61	127.07	118.90
25	BB	1333	G	N3-C4-C5	-13.61	121.80	128.60
25	BB	2373	G	C4-C5-C6	-13.61	110.63	118.80
1	AP	62	A	N1-C2-N3	-13.61	122.50	129.30
25	BB	1367	A	C5-C6-N1	13.61	124.50	117.70
25	BB	1428	C	N3-C2-O2	-13.61	112.38	121.90
3	A1	510	A	O4'-C1'-C2'	13.60	119.84	107.60
3	A1	746	A	N1-C6-N6	-13.60	110.44	118.60
3	A1	1046	A	C2-N3-C4	13.60	117.40	110.60
3	A1	1491	G	N1-C6-O6	-13.60	111.74	119.90
25	BB	2143	C	C2-N3-C4	-13.60	113.10	119.90
24	BA	45	A	C5-C6-N1	13.60	124.50	117.70
25	BB	2497	A	C5-C6-N1	13.60	124.50	117.70
25	BB	2561	U	C5-C6-N1	-13.60	115.90	122.70
3	A1	1342	C	N3-C4-N4	-13.60	108.48	118.00
3	A1	1239	A	C4-C5-C6	-13.59	110.20	117.00
3	A1	152	A	N1-C6-N6	-13.59	110.45	118.60
25	BB	1650	A	N1-C6-N6	-13.59	110.45	118.60
25	BB	1983	G	N3-C4-C5	-13.58	121.81	128.60
3	A1	846	G	C5-C6-N1	13.58	118.29	111.50
3	A1	1104	G	C1'-O4'-C4'	-13.58	99.03	109.90
3	A1	1414	U	C5-C6-N1	-13.58	115.91	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	249	C	N3-C2-O2	-13.58	112.39	121.90
3	A1	363	A	N1-C6-N6	-13.57	110.46	118.60
3	A1	1045	C	C2-N3-C4	-13.57	113.11	119.90
25	BB	2169	A	N1-C6-N6	-13.57	110.46	118.60
25	BB	2814	A	C4-C5-C6	-13.57	110.21	117.00
3	A1	853	C	N3-C2-O2	-13.57	112.40	121.90
25	BB	2879	A	C4-C5-C6	-13.57	110.21	117.00
3	A1	852	G	C6-C5-N7	13.57	138.54	130.40
25	BB	844	A	C8-N9-C4	-13.57	100.37	105.80
25	BB	1437	C	N3-C4-C5	13.57	127.33	121.90
25	BB	2714	G	N1-C6-O6	-13.57	111.76	119.90
25	BB	152	A	N7-C8-N9	13.57	120.58	113.80
3	A1	1342	C	N3-C4-C5	13.57	127.33	121.90
25	BB	1218	G	C4-C5-N7	-13.56	105.38	110.80
25	BB	1924	C	N3-C2-O2	-13.56	112.41	121.90
25	BB	1508	A	N1-C6-N6	-13.56	110.47	118.60
25	BB	1997	C	N3-C2-O2	-13.56	112.41	121.90
3	A1	1053	G	N3-C4-C5	-13.56	121.82	128.60
3	A1	1092	A	C4-C5-C6	-13.56	110.22	117.00
3	A1	1233	G	C4-C5-N7	-13.56	105.38	110.80
25	BB	231	A	C6-C5-N7	13.55	141.79	132.30
25	BB	1173	U	N3-C2-O2	-13.55	112.71	122.20
25	BB	2014	A	N7-C8-N9	13.55	120.58	113.80
7	AF	92	ARG	NE-CZ-NH2	-13.55	113.52	120.30
24	BA	78	A	C2-N3-C4	13.55	117.37	110.60
25	BB	951	C	C6-N1-C2	-13.55	114.88	120.30
25	BB	2436	G	O4'-C1'-N9	13.55	119.04	108.20
25	BB	547	A	C4-C5-C6	-13.55	110.23	117.00
38	BO	6	ARG	NE-CZ-NH1	13.55	127.07	120.30
25	BB	91	A	C4-C5-C6	-13.54	110.23	117.00
25	BB	218	A	C4-C5-C6	-13.54	110.23	117.00
3	A1	1332	A	C5-C6-N1	13.54	124.47	117.70
1	AA	63	C	N3-C4-C5	13.54	127.31	121.90
3	A1	655	A	N1-C6-N6	-13.54	110.48	118.60
25	BB	1981	A	O4'-C1'-N9	13.53	119.03	108.20
25	BB	2469	A	C4-C5-C6	-13.53	110.23	117.00
3	A1	322	C	N3-C4-N4	-13.53	108.53	118.00
25	BB	1810	A	N1-C2-N3	-13.53	122.53	129.30
3	A1	508	U	C5-C6-N1	-13.53	115.94	122.70
3	A1	1227	A	C5-C6-N1	13.53	124.47	117.70
3	A1	1272	G	N1-C6-O6	-13.53	111.78	119.90
25	BB	793	A	C5-C6-N1	13.53	124.46	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1774	C	N3-C2-O2	-13.53	112.43	121.90
25	BB	1925	C	N3-C4-N4	-13.53	108.53	118.00
50	B1	44	ARG	NE-CZ-NH2	13.53	127.06	120.30
25	BB	438	G	N1-C6-O6	-13.53	111.78	119.90
3	A1	727	G	C5-C6-N1	13.52	118.26	111.50
25	BB	782	A	C8-N9-C4	-13.52	100.39	105.80
25	BB	959	A	N1-C6-N6	-13.52	110.49	118.60
25	BB	401	A	N1-C6-N6	-13.52	110.49	118.60
3	A1	36	C	C2-N3-C4	-13.52	113.14	119.90
25	BB	2128	G	N3-C2-N2	-13.52	110.44	119.90
49	BZ	150	ARG	NE-CZ-NH1	13.52	127.06	120.30
1	AE	73	A	N1-C6-N6	-13.51	110.49	118.60
3	A1	824	G	N1-C6-O6	-13.51	111.79	119.90
3	A1	1176	A	N1-C6-N6	-13.51	110.49	118.60
25	BB	2541	A	C4-C5-C6	-13.51	110.25	117.00
3	A1	393	A	C5-C6-N6	13.51	134.50	123.70
24	BA	78	A	N1-C6-N6	-13.50	110.50	118.60
3	A1	507	C	C2-N3-C4	-13.50	113.15	119.90
3	A1	1152	A	C5-C6-N1	13.50	124.45	117.70
25	BB	176	A	N1-C6-N6	-13.50	110.50	118.60
37	BN	34	GLU	OE1-CD-OE2	-13.50	107.10	123.30
25	BB	230	G	N7-C8-N9	13.50	119.85	113.10
25	BB	2495	G	C5-C6-N1	13.50	118.25	111.50
1	AA	50	U	N3-C2-O2	-13.49	112.75	122.20
20	AU	110	ARG	NE-CZ-NH2	-13.49	113.55	120.30
25	BB	137	U	C5-C4-O4	-13.49	117.80	125.90
25	BB	2058	A	N1-C6-N6	-13.49	110.50	118.60
25	BB	2626	C	C6-N1-C2	-13.49	114.90	120.30
3	A1	69	G	N1-C6-O6	-13.48	111.81	119.90
3	A1	645	G	N7-C8-N9	13.48	119.84	113.10
25	BB	1642	G	N1-C6-O6	-13.48	111.81	119.90
25	BB	2784	U	C5-C6-N1	-13.48	115.96	122.70
25	BB	1353	A	N1-C6-N6	-13.48	110.51	118.60
3	A1	559	A	C4-C5-C6	-13.48	110.26	117.00
3	A1	1469	C	N3-C4-C5	13.48	127.29	121.90
25	BB	132	G	N1-C6-O6	-13.48	111.81	119.90
25	BB	1628	G	N9-C4-C5	13.48	110.79	105.40
46	BW	7	ARG	NE-CZ-NH2	13.48	127.04	120.30
3	A1	366	A	O4'-C1'-N9	13.47	118.98	108.20
25	BB	678	C	N3-C4-C5	13.47	127.29	121.90
25	BB	2361	G	N3-C4-C5	-13.47	121.87	128.60
3	A1	1080	A	N9-C4-C5	13.46	111.19	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1783	A	N1-C6-N6	-13.46	110.52	118.60
25	BB	2221	G	C4-C5-N7	-13.46	105.41	110.80
25	BB	1073	A	C5-C6-N1	13.46	124.43	117.70
25	BB	1566	A	N1-C6-N6	-13.46	110.52	118.60
3	A1	309	A	C5-C6-N1	13.46	124.43	117.70
25	BB	1014	A	C5-C6-N1	13.45	124.43	117.70
25	BB	1007	C	C2-N3-C4	-13.45	113.17	119.90
3	A1	1117	A	C5-C6-N1	13.45	124.42	117.70
25	BB	791	C	O4'-C1'-N1	13.45	118.96	108.20
25	BB	964	C	N3-C2-O2	-13.45	112.49	121.90
1	AA	66	A	N1-C2-N3	-13.45	122.58	129.30
3	A1	514	C	C6-N1-C2	-13.45	114.92	120.30
25	BB	2691	C	O4'-C1'-N1	13.45	118.96	108.20
1	AP	30	G	N1-C6-O6	-13.44	111.84	119.90
3	A1	1408	A	C5-C6-N1	13.44	124.42	117.70
25	BB	2162	G	C4-C5-N7	-13.44	105.42	110.80
25	BB	1931	U	C3'-C2'-C1'	13.44	112.25	101.50
3	A1	872	A	C4-C5-C6	-13.43	110.28	117.00
25	BB	1169	A	C4-C5-C6	-13.43	110.28	117.00
25	BB	30	G	C5-C6-N1	13.43	118.22	111.50
25	BB	2691	C	N1-C2-O2	13.43	126.96	118.90
25	BB	1147	A	N1-C6-N6	-13.43	110.54	118.60
25	BB	1269	A	C2-N3-C4	13.43	117.31	110.60
3	A1	131	A	C5-C6-N1	13.42	124.41	117.70
25	BB	138	U	C2-N3-C4	-13.42	118.95	127.00
3	A1	528	C	N3-C4-C5	13.41	127.27	121.90
25	BB	457	A	N9-C4-C5	13.41	111.17	105.80
25	BB	1805	A	N1-C6-N6	-13.41	110.55	118.60
25	BB	130	C	C5-C6-N1	-13.41	114.30	121.00
25	BB	2148	G	N9-C4-C5	13.41	110.76	105.40
3	A1	492	C	N3-C2-O2	-13.40	112.52	121.90
3	A1	864	A	C5-C6-N6	13.40	134.42	123.70
25	BB	1250	G	N3-C2-N2	-13.40	110.52	119.90
25	BB	2102	G	C6-C5-N7	13.40	138.44	130.40
3	A1	795	C	N3-C4-N4	-13.40	108.62	118.00
25	BB	106	C	N3-C2-O2	-13.40	112.52	121.90
25	BB	152	A	C8-N9-C4	-13.40	100.44	105.80
25	BB	2036	C	N3-C4-N4	-13.40	108.62	118.00
3	A1	1443	C	C5-C6-N1	-13.39	114.30	121.00
16	AQ	16	ARG	NE-CZ-NH1	13.39	127.00	120.30
25	BB	1823	G	C5-C6-N1	13.39	118.20	111.50
25	BB	2624	G	N1-C6-O6	-13.39	111.86	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	323	C	N3-C2-O2	-13.39	112.53	121.90
3	A1	1141	C	N3-C2-O2	-13.39	112.53	121.90
1	AE	36	A	N1-C6-N6	-13.39	110.57	118.60
1	AE	47	U	C1'-O4'-C4'	-13.39	99.19	109.90
3	A1	229	U	O4'-C1'-N1	13.38	118.91	108.20
3	A1	1054	C	C6-N1-C2	-13.38	114.95	120.30
25	BB	2737	G	N7-C8-N9	13.38	119.79	113.10
37	BN	176	ARG	NE-CZ-NH1	13.38	126.99	120.30
3	A1	190	A	N1-C6-N6	-13.38	110.57	118.60
25	BB	715	A	N9-C4-C5	13.38	111.15	105.80
25	BB	941	A	C5-N7-C8	-13.38	97.21	103.90
25	BB	1067	A	N1-C6-N6	-13.38	110.57	118.60
25	BB	7	G	N1-C6-O6	-13.38	111.87	119.90
25	BB	1655	A	N7-C8-N9	-13.38	107.11	113.80
24	BA	42	C	C5-C4-N4	13.37	129.56	120.20
25	BB	1916	A	C4-C5-C6	-13.37	110.31	117.00
3	A1	567	G	C2-N3-C4	13.37	118.58	111.90
3	A1	628	G	N1-C6-O6	-13.37	111.88	119.90
1	AA	74	C	N3-C4-N4	-13.37	108.64	118.00
3	A1	228	A	C5-C6-N1	13.37	124.38	117.70
3	A1	550	G	N3-C4-C5	-13.37	121.92	128.60
3	A1	651	C	N3-C2-O2	-13.37	112.54	121.90
3	A1	1002	G	N3-C2-N2	-13.37	110.54	119.90
25	BB	1550	C	C5-C6-N1	-13.37	114.31	121.00
25	BB	1744	A	N1-C6-N6	-13.37	110.58	118.60
25	BB	2215	C	N3-C4-C5	13.37	127.25	121.90
35	BL	18	ARG	NE-CZ-NH1	13.37	126.98	120.30
1	AE	70	C	C6-N1-C2	-13.36	114.95	120.30
3	A1	1364	U	N1-C2-O2	13.36	132.15	122.80
25	BB	2335	A	C4-C5-C6	-13.36	110.32	117.00
25	BB	448	U	N3-C2-O2	-13.36	112.85	122.20
25	BB	2725	A	C5-C6-N1	13.36	124.38	117.70
1	AA	75	C	N3-C4-N4	-13.36	108.65	118.00
3	A1	464	U	O4'-C1'-N1	13.36	118.89	108.20
3	A1	1050	G	C8-N9-C4	-13.36	101.06	106.40
25	BB	258	G	C8-N9-C4	-13.36	101.06	106.40
25	BB	766	U	N3-C2-O2	-13.36	112.85	122.20
25	BB	1319	C	N1-C2-O2	13.36	126.91	118.90
3	A1	1002	G	N9-C4-C5	13.35	110.74	105.40
3	A1	1142	G	C2-N3-C4	13.35	118.58	111.90
1	AP	16	U	C2-N3-C4	-13.35	118.99	127.00
3	A1	165	G	O4'-C1'-N9	13.35	118.88	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	510	A	C5-N7-C8	-13.35	97.22	103.90
25	BB	1036	G	N1-C6-O6	-13.35	111.89	119.90
3	A1	953	G	C6-N1-C2	-13.35	117.09	125.10
25	BB	1695	G	C5-C6-N1	13.35	118.17	111.50
3	A1	1395	C	N3-C2-O2	-13.34	112.56	121.90
25	BB	960	A	C5-C6-N1	13.34	124.37	117.70
3	A1	265	G	N1-C2-N3	13.34	131.90	123.90
3	A1	465	A	N9-C4-C5	13.34	111.14	105.80
25	BB	365	U	N1-C2-N3	13.34	122.90	114.90
25	BB	423	A	C4-C5-C6	-13.34	110.33	117.00
25	BB	1666	G	N7-C8-N9	13.34	119.77	113.10
25	BB	1773	A	C8-N9-C4	-13.34	100.47	105.80
25	BB	2062	A	N9-C4-C5	-13.34	100.47	105.80
24	BA	105	G	O4'-C1'-N9	13.34	118.87	108.20
25	BB	2669	G	C5-C6-N1	13.34	118.17	111.50
25	BB	1575	C	N3-C2-O2	-13.34	112.57	121.90
25	BB	1631	G	N9-C4-C5	13.33	110.73	105.40
25	BB	1288	G	N1-C2-N3	13.33	131.90	123.90
25	BB	2748	A	C5-C6-N1	13.33	124.37	117.70
3	A1	502	A	C5-C6-N1	13.33	124.36	117.70
3	A1	212	G	C4-C5-N7	13.33	116.13	110.80
3	A1	713	G	C5-C6-O6	13.33	136.60	128.60
3	A1	1447	A	N1-C6-N6	-13.33	110.60	118.60
3	A1	1465	A	C4-C5-C6	-13.33	110.34	117.00
25	BB	1612	C	C6-N1-C2	-13.33	114.97	120.30
1	AA	6	U	N3-C2-O2	-13.32	112.87	122.20
24	BA	15	A	O4'-C1'-N9	13.32	118.86	108.20
40	BQ	7	ARG	NE-CZ-NH1	13.32	126.96	120.30
3	A1	524	G	N3-C4-C5	-13.32	121.94	128.60
25	BB	679	C	N1-C2-O2	13.32	126.89	118.90
3	A1	167	A	C5-C6-N1	13.32	124.36	117.70
25	BB	1525	A	C5-C6-N1	13.32	124.36	117.70
3	A1	34	C	N3-C2-O2	-13.31	112.58	121.90
3	A1	384	G	O4'-C1'-N9	13.31	118.85	108.20
25	BB	1155	A	N1-C6-N6	-13.31	110.61	118.60
25	BB	2885	G	N3-C4-C5	-13.31	121.94	128.60
25	BB	324	A	O4'-C1'-N9	13.31	118.85	108.20
1	AE	26	G	C5-C6-O6	13.31	136.59	128.60
25	BB	792	A	N1-C6-N6	-13.31	110.61	118.60
25	BB	2360	G	N1-C6-O6	-13.31	111.91	119.90
24	BA	61	G	N3-C4-C5	-13.31	121.95	128.60
25	BB	1830	C	N3-C2-O2	-13.31	112.58	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1237	A	N1-C6-N6	-13.30	110.62	118.60
24	BA	86	G	C6-C5-N7	13.30	138.38	130.40
25	BB	2037	A	C5-N7-C8	-13.30	97.25	103.90
3	A1	548	G	C8-N9-C4	-13.30	101.08	106.40
3	A1	1093	A	C5-C6-N1	13.30	124.35	117.70
25	BB	1080	A	C4-C5-C6	-13.30	110.35	117.00
25	BB	2538	C	N3-C4-C5	13.30	127.22	121.90
3	A1	1288	A	N1-C6-N6	-13.30	110.62	118.60
25	BB	1192	G	C2-N3-C4	13.30	118.55	111.90
25	BB	1404	C	C2-N3-C4	-13.29	113.25	119.90
3	A1	61	G	O4'-C1'-N9	13.29	118.83	108.20
3	A1	183	C	C2-N3-C4	-13.29	113.25	119.90
24	BA	84	G	N1-C6-O6	-13.29	111.92	119.90
25	BB	2825	G	O4'-C1'-N9	13.29	118.83	108.20
3	A1	722	G	O4'-C1'-N9	13.29	118.83	108.20
25	BB	2608	G	N3-C2-N2	-13.28	110.60	119.90
25	BB	1084	A	O4'-C1'-N9	13.28	118.83	108.20
3	A1	176	C	N3-C4-C5	13.28	127.21	121.90
25	BB	547	A	C5-C6-N1	13.28	124.34	117.70
25	BB	1413	A	C5-C6-N1	13.28	124.34	117.70
25	BB	2312	U	N3-C2-O2	-13.28	112.91	122.20
25	BB	2522	U	C5-C6-N1	-13.28	116.06	122.70
25	BB	2765	A	N9-C4-C5	-13.28	100.49	105.80
25	BB	1924	C	C2-N3-C4	-13.27	113.26	119.90
25	BB	376	G	C5-C6-N1	13.27	118.14	111.50
25	BB	1139	G	C6-C5-N7	13.27	138.36	130.40
25	BB	2077	A	C5-C6-N1	13.27	124.34	117.70
3	A1	919	A	N1-C6-N6	-13.27	110.64	118.60
25	BB	134	G	N1-C6-O6	-13.27	111.94	119.90
25	BB	965	C	N1-C2-O2	13.27	126.86	118.90
3	A1	371	A	C4-C5-N7	-13.27	104.07	110.70
3	A1	1346	A	C1'-O4'-C4'	-13.27	99.29	109.90
3	A1	885	G	N3-C4-C5	-13.27	121.97	128.60
3	A1	963	G	N9-C4-C5	13.27	110.71	105.40
25	BB	1664	A	N1-C6-N6	-13.27	110.64	118.60
25	BB	522	A	N1-C6-N6	-13.26	110.64	118.60
25	BB	2850	A	C2-N3-C4	13.26	117.23	110.60
25	BB	2400	G	C5-N7-C8	-13.26	97.67	104.30
3	A1	693	G	N3-C2-N2	-13.25	110.62	119.90
3	A1	952	U	O4'-C1'-N1	13.25	118.80	108.20
22	AW	118	ARG	NE-CZ-NH2	-13.25	113.67	120.30
25	BB	1266	G	C6-N1-C2	-13.25	117.15	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2227	A	C2-N3-C4	13.25	117.23	110.60
25	BB	2368	C	C5-C4-N4	13.25	129.48	120.20
25	BB	2047	C	C6-N1-C2	-13.25	115.00	120.30
24	BA	15	A	N7-C8-N9	13.25	120.42	113.80
25	BB	2372	U	N3-C2-O2	-13.25	112.93	122.20
25	BB	693	A	C5-C6-N1	13.25	124.32	117.70
3	A1	630	A	N1-C6-N6	-13.24	110.65	118.60
25	BB	1179	G	C8-N9-C4	-13.24	101.10	106.40
25	BB	1227	G	N7-C8-N9	13.24	119.72	113.10
54	B5	133	ARG	NE-CZ-NH1	13.24	126.92	120.30
1	AE	5	A	C4-C5-C6	-13.24	110.38	117.00
25	BB	472	A	C4-C5-C6	-13.24	110.38	117.00
3	A1	352	C	O4'-C1'-N1	-13.24	97.61	108.20
25	BB	1404	C	N1-C2-O2	13.23	126.84	118.90
25	BB	2604	U	N3-C2-O2	-13.23	112.94	122.20
25	BB	2731	G	C5-N7-C8	-13.23	97.68	104.30
3	A1	913	A	O4'-C1'-N9	13.23	118.78	108.20
25	BB	1150	C	N3-C4-N4	-13.23	108.74	118.00
25	BB	2510	C	N1-C2-O2	13.23	126.84	118.90
25	BB	343	C	N3-C4-N4	-13.22	108.74	118.00
25	BB	2170	A	N1-C2-N3	-13.22	122.69	129.30
25	BB	688	U	C5-C6-N1	-13.22	116.09	122.70
25	BB	1149	G	N3-C4-C5	-13.22	121.99	128.60
25	BB	194	G	C4-C5-N7	-13.22	105.51	110.80
25	BB	1738	G	C6-C5-N7	13.22	138.33	130.40
25	BB	2475	C	N3-C4-C5	13.22	127.19	121.90
3	A1	1084	G	C5-C6-N1	13.22	118.11	111.50
3	A1	1145	A	N1-C6-N6	-13.21	110.67	118.60
25	BB	109	C	N3-C2-O2	-13.21	112.65	121.90
51	B2	149	ARG	NE-CZ-NH1	13.21	126.91	120.30
26	BC	18	ARG	NE-CZ-NH2	13.21	126.91	120.30
31	BH	7	ARG	NE-CZ-NH2	13.21	126.91	120.30
3	A1	1105	A	C5-C6-N1	13.21	124.30	117.70
3	A1	896	C	N3-C4-C5	13.21	127.18	121.90
25	BB	2305	U	N3-C2-O2	-13.21	112.95	122.20
25	BB	2822	G	N1-C6-O6	-13.21	111.98	119.90
25	BB	2253	G	N1-C2-N2	-13.20	104.32	116.20
25	BB	947	A	N1-C2-N3	-13.20	122.70	129.30
3	A1	448	A	N1-C6-N6	-13.20	110.68	118.60
25	BB	1054	A	N1-C6-N6	-13.20	110.68	118.60
3	A1	46	G	N1-C6-O6	-13.20	111.98	119.90
25	BB	1668	A	C4-C5-C6	-13.20	110.40	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2748	A	C3'-C2'-C1'	13.20	112.06	101.50
25	BB	340	A	N1-C6-N6	-13.20	110.68	118.60
25	BB	676	A	C4-C5-C6	-13.20	110.40	117.00
33	BJ	50	ARG	NE-CZ-NH1	13.20	126.90	120.30
3	A1	144	G	C8-N9-C4	-13.20	101.12	106.40
3	A1	599	C	N3-C4-C5	13.19	127.18	121.90
25	BB	694	U	C4-C5-C6	13.19	127.62	119.70
25	BB	900	A	C5-N7-C8	-13.20	97.30	103.90
25	BB	1599	U	O4'-C1'-N1	13.19	118.75	108.20
3	A1	546	A	C2-N3-C4	13.19	117.19	110.60
3	A1	758	C	N3-C4-N4	-13.19	108.77	118.00
3	A1	944	G	C2-N3-C4	-13.19	105.30	111.90
25	BB	778	G	N1-C6-O6	-13.19	111.98	119.90
25	BB	1044	C	C6-N1-C2	-13.19	115.02	120.30
25	BB	1634	A	C8-N9-C4	-13.19	100.52	105.80
25	BB	1857	G	C4-C5-C6	-13.19	110.89	118.80
25	BB	2875	C	N3-C4-C5	13.19	127.18	121.90
1	AP	35	A	C5-C6-N1	13.19	124.29	117.70
25	BB	697	G	N3-C4-N9	13.19	133.91	126.00
25	BB	1201	U	C6-N1-C2	-13.19	113.09	121.00
25	BB	1427	A	N1-C6-N6	-13.19	110.69	118.60
25	BB	2816	G	C5-C6-N1	13.19	118.09	111.50
25	BB	1711	A	C4-C5-C6	-13.19	110.41	117.00
1	AA	14	A	C5-C6-N1	13.18	124.29	117.70
3	A1	182	A	C4-C5-C6	-13.18	110.41	117.00
25	BB	120	U	C1'-O4'-C4'	-13.18	99.35	109.90
25	BB	239	C	N1-C2-O2	13.18	126.81	118.90
25	BB	1076	C	C6-N1-C2	-13.18	115.03	120.30
3	A1	1280	A	N1-C6-N6	-13.18	110.69	118.60
51	B2	109	ARG	NE-CZ-NH1	13.18	126.89	120.30
25	BB	1199	U	C6-N1-C2	-13.17	113.09	121.00
25	BB	671	C	N3-C2-O2	-13.17	112.68	121.90
25	BB	1715	G	C8-N9-C4	-13.17	101.13	106.40
25	BB	943	A	C5-C6-N1	13.17	124.29	117.70
3	A1	7	A	N1-C6-N6	-13.17	110.70	118.60
3	A1	1055	A	N1-C2-N3	13.17	135.88	129.30
25	BB	1673	G	N7-C8-N9	13.17	119.69	113.10
3	A1	1007	U	N1-C2-O2	13.17	132.02	122.80
3	A1	974	A	N1-C6-N6	-13.16	110.70	118.60
25	BB	111	A	C4-C5-C6	-13.16	110.42	117.00
3	A1	1026	G	C8-N9-C4	-13.16	101.14	106.40
3	A1	1146	A	N1-C6-N6	-13.16	110.70	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2370	G	N1-C6-O6	-13.16	112.00	119.90
25	BB	2468	A	C4-C5-C6	-13.16	110.42	117.00
25	BB	625	G	N1-C6-O6	-13.15	112.01	119.90
3	A1	893	C	C2-N3-C4	-13.15	113.33	119.90
3	A1	1178	G	N7-C8-N9	13.15	119.68	113.10
25	BB	50	U	O4'-C1'-N1	13.15	118.72	108.20
25	BB	930	G	N1-C6-O6	-13.15	112.01	119.90
25	BB	2793	C	N3-C4-N4	-13.15	108.80	118.00
25	BB	2053	G	O4'-C1'-N9	13.15	118.72	108.20
3	A1	1170	A	N9-C4-C5	13.15	111.06	105.80
25	BB	518	G	C5-C6-N1	13.15	118.07	111.50
25	BB	2086	U	N3-C2-O2	-13.15	113.00	122.20
25	BB	1377	G	C4-C5-N7	-13.14	105.54	110.80
25	BB	1016	G	C4-C5-N7	-13.14	105.54	110.80
25	BB	1738	G	C8-N9-C4	-13.14	101.14	106.40
25	BB	391	A	N1-C6-N6	-13.14	110.72	118.60
25	BB	1131	G	C6-C5-N7	13.14	138.28	130.40
25	BB	2243	U	N3-C2-O2	-13.14	113.00	122.20
3	A1	833	G	C2-N3-C4	13.13	118.47	111.90
3	A1	1433	A	C8-N9-C4	13.13	111.05	105.80
25	BB	2498	C	N3-C4-C5	13.13	127.15	121.90
25	BB	2873	A	C5-C6-N6	13.13	134.21	123.70
25	BB	272	A	C5-C6-N1	13.13	124.27	117.70
25	BB	1529	G	C5-N7-C8	-13.13	97.74	104.30
25	BB	1696	G	C8-N9-C4	-13.13	101.15	106.40
25	BB	1700	A	C5-C6-N1	13.13	124.26	117.70
3	A1	688	G	C5-C6-O6	13.12	136.47	128.60
25	BB	417	C	O4'-C1'-N1	13.12	118.70	108.20
25	BB	960	A	N1-C6-N6	-13.12	110.72	118.60
3	A1	1431	A	N1-C6-N6	-13.12	110.73	118.60
25	BB	1376	C	C5-C6-N1	13.12	127.56	121.00
25	BB	1398	C	N1-C2-O2	13.12	126.77	118.90
1	AE	43	G	N3-C2-N2	-13.12	110.72	119.90
25	BB	692	C	N3-C2-O2	-13.12	112.72	121.90
25	BB	2659	G	N9-C4-C5	13.12	110.65	105.40
27	BD	71	ARG	NE-CZ-NH1	13.12	126.86	120.30
25	BB	368	A	C4-C5-C6	-13.12	110.44	117.00
25	BB	2200	C	N3-C2-O2	-13.12	112.72	121.90
43	BT	16	ARG	NE-CZ-NH2	13.12	126.86	120.30
25	BB	891	G	O4'-C1'-N9	13.12	118.69	108.20
3	A1	1086	U	C6-N1-C2	-13.11	113.13	121.00
25	BB	1167	C	N3-C4-C5	13.11	127.14	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2369	A	N1-C6-N6	-13.11	110.73	118.60
25	BB	1365	A	N1-C2-N3	-13.11	122.74	129.30
25	BB	79	C	N3-C4-C5	13.11	127.14	121.90
3	A1	1004	A	N1-C2-N3	13.11	135.85	129.30
25	BB	1965	C	O4'-C1'-N1	13.11	118.68	108.20
25	BB	2309	A	N1-C6-N6	-13.11	110.74	118.60
4	AB	207	ARG	NE-CZ-NH2	-13.10	113.75	120.30
25	BB	412	A	C2-N3-C4	13.10	117.15	110.60
25	BB	1046	A	C6-N1-C2	-13.10	110.74	118.60
25	BB	2753	A	N1-C6-N6	-13.10	110.74	118.60
25	BB	295	G	N1-C6-O6	-13.10	112.04	119.90
25	BB	763	G	C8-N9-C4	-13.10	101.16	106.40
25	BB	1546	G	C6-C5-N7	13.10	138.26	130.40
3	A1	1467	C	N3-C4-C5	13.09	127.14	121.90
24	BA	38	C	C2-N3-C4	-13.09	113.35	119.90
25	BB	809	G	C5-C6-N1	13.09	118.05	111.50
25	BB	1815	A	C5-C6-N1	13.09	124.25	117.70
3	A1	240	G	N1-C6-O6	-13.09	112.05	119.90
25	BB	1389	G	C5-C6-N1	13.09	118.04	111.50
1	AA	9	A	C4-C5-C6	-13.09	110.46	117.00
3	A1	139	A	C5-C6-N1	13.09	124.24	117.70
25	BB	71	A	N1-C6-N6	-13.09	110.75	118.60
25	BB	72	U	N3-C2-O2	-13.08	113.04	122.20
25	BB	1272	A	C2-N3-C4	13.08	117.14	110.60
25	BB	1825	U	C1'-O4'-C4'	-13.08	99.43	109.90
25	BB	973	A	C4-C5-C6	-13.08	110.46	117.00
3	A1	463	U	C5-C6-N1	-13.07	116.16	122.70
25	BB	2069	G	N3-C2-N2	-13.07	110.75	119.90
25	BB	2158	A	C5-C6-N1	13.07	124.23	117.70
25	BB	2712	C	N3-C4-N4	-13.07	108.85	118.00
36	BM	77	ARG	NE-CZ-NH1	13.07	126.83	120.30
25	BB	1848	A	C5-C6-N6	13.07	134.15	123.70
25	BB	140	C	O4'-C4'-C3'	13.07	117.07	104.00
25	BB	1539	U	N3-C2-O2	-13.07	113.05	122.20
1	AA	30	G	N1-C2-N3	13.06	131.74	123.90
25	BB	1069	A	N1-C6-N6	-13.06	110.76	118.60
3	A1	1085	U	C5-C6-N1	-13.05	116.17	122.70
25	BB	359	G	C6-N1-C2	-13.05	117.27	125.10
25	BB	964	C	N3-C4-C5	13.05	127.12	121.90
3	A1	658	C	C5-C4-N4	13.05	129.34	120.20
25	BB	469	G	O4'-C1'-N9	13.05	118.64	108.20
3	A1	946	A	N9-C4-C5	-13.05	100.58	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1168	U	N3-C2-O2	-13.04	113.07	122.20
25	BB	436	C	C5-C4-N4	-13.04	111.07	120.20
25	BB	891	G	C8-N9-C4	13.04	111.62	106.40
25	BB	2816	G	C2-N3-C4	13.04	118.42	111.90
25	BB	1067	A	C5-C6-N1	13.04	124.22	117.70
25	BB	1910	G	N1-C6-O6	-13.04	112.08	119.90
3	A1	69	G	C5-C6-O6	13.04	136.42	128.60
3	A1	1063	C	N3-C4-N4	-13.04	108.87	118.00
3	A1	1488	G	N3-C4-N9	13.04	133.82	126.00
25	BB	2373	G	N1-C6-O6	-13.04	112.08	119.90
3	A1	48	C	N3-C2-O2	-13.04	112.78	121.90
3	A1	746	A	C5-C6-N1	13.03	124.22	117.70
16	AQ	34	ARG	NE-CZ-NH2	13.04	126.82	120.30
25	BB	1089	A	N1-C6-N6	-13.04	110.78	118.60
3	A1	475	C	N3-C4-C5	13.03	127.11	121.90
3	A1	736	C	C2-N3-C4	-13.03	113.38	119.90
8	AG	23	ARG	NE-CZ-NH2	-13.03	113.78	120.30
25	BB	110	G	N7-C8-N9	13.03	119.62	113.10
25	BB	2870	C	N3-C4-C5	13.03	127.11	121.90
25	BB	817	C	N3-C2-O2	-13.03	112.78	121.90
25	BB	825	A	C4-C5-C6	-13.03	110.48	117.00
1	AP	58	A	C2-N3-C4	13.03	117.11	110.60
25	BB	1680	U	O4'-C1'-N1	13.03	118.62	108.20
3	A1	928	G	N3-C4-C5	-13.03	122.09	128.60
25	BB	2606	C	N3-C4-N4	-13.03	108.88	118.00
25	BB	2868	A	C5-C6-N1	13.03	124.21	117.70
25	BB	2901	C	C5-C6-N1	-13.03	114.49	121.00
25	BB	537	G	C6-N1-C2	-13.02	117.29	125.10
25	BB	1905	C	N3-C2-O2	-13.02	112.78	121.90
24	BA	38	C	N1-C2-N3	13.02	128.31	119.20
25	BB	104	A	C4-C5-C6	-13.02	110.49	117.00
25	BB	1887	C	N3-C4-C5	13.02	127.11	121.90
3	A1	984	C	C1'-O4'-C4'	-13.02	99.48	109.90
25	BB	1274	A	N1-C6-N6	-13.02	110.79	118.60
25	BB	1734	G	C5-C6-N1	13.02	118.01	111.50
25	BB	2142	A	C4-C5-C6	-13.02	110.49	117.00
25	BB	2363	G	N9-C4-C5	13.02	110.61	105.40
25	BB	1389	G	C6-N1-C2	-13.02	117.29	125.10
25	BB	2095	A	C4-C5-C6	-13.02	110.49	117.00
3	A1	1527	U	C3'-C2'-C1'	13.01	111.91	101.50
25	BB	1960	A	C4-C5-C6	-13.01	110.49	117.00
25	BB	981	A	C5-C6-N1	13.01	124.21	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1862	G	N1-C2-N3	13.01	131.71	123.90
1	AA	65	G	N1-C6-O6	-13.01	112.09	119.90
10	AI	70	ARG	NE-CZ-NH1	13.01	126.81	120.30
3	A1	943	U	O4'-C4'-C3'	13.01	117.01	104.00
25	BB	774	G	N1-C6-O6	-13.01	112.10	119.90
25	BB	2345	G	N3-C4-C5	-13.01	122.10	128.60
25	BB	2868	A	C5-C6-N6	13.01	134.10	123.70
28	BE	69	ARG	NE-CZ-NH1	13.01	126.80	120.30
3	A1	36	C	N3-C4-N4	-13.00	108.90	118.00
3	A1	1477	U	N1-C2-N3	13.00	122.70	114.90
25	BB	249	C	N1-C2-O2	13.00	126.70	118.90
3	A1	1509	C	C2-N3-C4	-13.00	113.40	119.90
25	BB	2495	G	C6-N1-C2	-13.00	117.30	125.10
25	BB	2691	C	C5-C6-N1	-13.00	114.50	121.00
30	BG	4	ARG	NE-CZ-NH1	13.00	126.80	120.30
25	BB	684	G	C1'-O4'-C4'	-13.00	99.50	109.90
1	AE	10	G	N9-C4-C5	-13.00	100.20	105.40
3	A1	311	C	O4'-C1'-N1	13.00	118.60	108.20
3	A1	468	A	C2-N3-C4	13.00	117.10	110.60
25	BB	147	C	N3-C4-C5	13.00	127.10	121.90
3	A1	265	G	C6-N1-C2	-13.00	117.30	125.10
3	A1	714	G	N1-C6-O6	-13.00	112.10	119.90
25	BB	188	G	N1-C6-O6	-13.00	112.10	119.90
25	BB	1354	A	C2-N3-C4	13.00	117.10	110.60
25	BB	1438	U	N3-C2-O2	-13.00	113.10	122.20
25	BB	2675	A	C4-C5-C6	-13.00	110.50	117.00
25	BB	2161	C	N3-C2-O2	-12.99	112.81	121.90
3	A1	424	G	C8-N9-C4	-12.99	101.20	106.40
3	A1	493	A	C4-C5-C6	-12.99	110.50	117.00
3	A1	780	A	C8-N9-C4	-12.99	100.61	105.80
25	BB	367	G	C8-N9-C4	-12.99	101.21	106.40
25	BB	2811	G	C2-N3-C4	-12.99	105.41	111.90
3	A1	1161	C	N1-C2-O2	12.98	126.69	118.90
25	BB	862	G	N1-C6-O6	-12.98	112.11	119.90
3	A1	5	U	N3-C2-O2	-12.98	113.11	122.20
3	A1	108	G	N1-C6-O6	-12.98	112.11	119.90
3	A1	890	G	C1'-O4'-C4'	-12.98	99.52	109.90
25	BB	2428	G	N9-C4-C5	12.98	110.59	105.40
25	BB	802	A	C5-C6-N1	12.98	124.19	117.70
25	BB	1800	C	N3-C4-C5	12.98	127.09	121.90
25	BB	2483	C	N3-C4-N4	-12.98	108.92	118.00
3	A1	503	C	N3-C4-N4	-12.97	108.92	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1254	A	N1-C2-N3	-12.97	122.81	129.30
25	BB	2660	A	N1-C6-N6	-12.97	110.81	118.60
25	BB	1064	C	C5-C6-N1	-12.97	114.51	121.00
3	A1	1124	G	C8-N9-C4	-12.97	101.21	106.40
25	BB	1133	A	C4-C5-C6	-12.97	110.52	117.00
25	BB	2376	A	C5-C6-N1	12.97	124.19	117.70
3	A1	105	G	C4-C5-N7	-12.97	105.61	110.80
3	A1	758	C	N3-C4-C5	12.97	127.09	121.90
3	A1	205	A	C5-C6-N1	12.97	124.18	117.70
3	A1	624	C	C5-C6-N1	-12.96	114.52	121.00
25	BB	285	G	C8-N9-C4	-12.96	101.21	106.40
25	BB	1126	A	N1-C6-N6	-12.96	110.82	118.60
25	BB	2295	C	N3-C4-N4	-12.96	108.92	118.00
25	BB	2153	C	N3-C2-O2	-12.96	112.83	121.90
3	A1	894	G	C2-N3-C4	12.96	118.38	111.90
3	A1	1302	C	N1-C2-O2	12.96	126.68	118.90
3	A1	989	U	C5-C6-N1	-12.96	116.22	122.70
3	A1	1468	A	C5-C6-N6	12.96	134.07	123.70
25	BB	2153	C	N3-C4-N4	-12.96	108.93	118.00
25	BB	1122	G	C8-N9-C4	-12.96	101.22	106.40
25	BB	939	G	C5-C6-N1	12.95	117.98	111.50
25	BB	1186	G	N1-C6-O6	-12.96	112.13	119.90
25	BB	263	G	N3-C4-C5	-12.95	122.12	128.60
25	BB	877	A	C5-C6-N1	12.95	124.17	117.70
25	BB	1638	C	C6-N1-C2	12.95	125.48	120.30
1	AP	13	C	N1-C2-O2	12.95	126.67	118.90
3	A1	898	G	C4-C5-C6	-12.95	111.03	118.80
25	BB	947	A	C5-C6-N1	12.95	124.17	117.70
25	BB	1089	A	C5-C6-N1	12.95	124.17	117.70
25	BB	2651	C	C2-N3-C4	-12.95	113.42	119.90
3	A1	621	A	N1-C2-N3	-12.95	122.83	129.30
25	BB	203	A	C5-C6-N1	12.95	124.17	117.70
1	AA	60	C	C2-N3-C4	-12.94	113.43	119.90
25	BB	1826	G	C6-N1-C2	-12.94	117.33	125.10
25	BB	2895	G	N9-C4-C5	12.94	110.58	105.40
3	A1	482	A	C5-C6-N1	12.94	124.17	117.70
3	A1	1246	A	N1-C6-N6	-12.94	110.84	118.60
25	BB	1165	A	C2-N3-C4	12.94	117.07	110.60
25	BB	1370	C	N3-C4-C5	12.94	127.08	121.90
3	A1	396	C	N3-C4-N4	-12.94	108.94	118.00
25	BB	1028	A	C4-C5-C6	-12.94	110.53	117.00
25	BB	845	A	C4-C5-C6	-12.93	110.53	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1467	U	C5-C6-N1	-12.93	116.23	122.70
25	BB	1849	G	C5-C6-N1	12.93	117.97	111.50
25	BB	1221	C	N3-C2-O2	-12.93	112.85	121.90
25	BB	1682	G	N1-C6-O6	-12.93	112.14	119.90
3	A1	573	A	C5-C6-N6	12.92	134.04	123.70
25	BB	970	U	O4'-C1'-N1	12.92	118.54	108.20
25	BB	507	A	C4-C5-C6	-12.92	110.54	117.00
25	BB	1916	A	N1-C6-N6	-12.92	110.85	118.60
25	BB	2042	A	N1-C6-N6	-12.92	110.85	118.60
25	BB	2551	C	C2-N3-C4	-12.92	113.44	119.90
25	BB	1478	G	C6-N1-C2	-12.91	117.35	125.10
3	A1	1378	C	N3-C2-O2	-12.91	112.86	121.90
25	BB	225	C	N3-C2-O2	-12.91	112.86	121.90
25	BB	1059	G	C8-N9-C4	-12.91	101.24	106.40
25	BB	1399	C	C4-C5-C6	12.91	123.86	117.40
51	B2	166	ARG	NE-CZ-NH1	12.91	126.75	120.30
3	A1	947	G	C5-C6-N1	12.91	117.95	111.50
25	BB	1431	A	C4-C5-C6	-12.91	110.55	117.00
3	A1	606	G	N1-C6-O6	-12.90	112.16	119.90
3	A1	959	A	C5-C6-N1	12.90	124.15	117.70
25	BB	823	C	O4'-C1'-N1	12.90	118.52	108.20
25	BB	1685	C	N3-C4-C5	12.90	127.06	121.90
1	AE	52	U	C5-C6-N1	-12.90	116.25	122.70
25	BB	39	G	N1-C2-N3	12.90	131.64	123.90
25	BB	2143	C	N3-C2-O2	-12.90	112.87	121.90
12	AK	69	TYR	CB-CG-CD1	-12.90	113.26	121.00
25	BB	772	C	N3-C4-C5	12.90	127.06	121.90
3	A1	1046	A	C6-N1-C2	-12.90	110.86	118.60
3	A1	1449	C	C2-N3-C4	-12.90	113.45	119.90
25	BB	996	A	C4-C5-C6	-12.90	110.55	117.00
25	BB	1963	U	O4'-C1'-N1	12.90	118.52	108.20
3	A1	1196	A	C6-N1-C2	12.89	126.33	118.60
24	BA	67	G	C5-C6-N1	12.89	117.95	111.50
25	BB	792	A	C5-C6-N1	12.89	124.15	117.70
25	BB	514	A	C5-C6-N1	12.89	124.14	117.70
25	BB	568	U	C5-C6-N1	-12.89	116.26	122.70
25	BB	933	A	N9-C4-C5	12.89	110.95	105.80
3	A1	69	G	C8-N9-C4	-12.89	101.25	106.40
3	A1	801	U	C5-C6-N1	-12.89	116.26	122.70
18	AS	19	ARG	NE-CZ-NH2	12.88	126.74	120.30
25	BB	1133	A	C5-C6-N1	12.88	124.14	117.70
25	BB	2880	C	N3-C4-C5	12.88	127.05	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2561	U	O4'-C1'-N1	12.88	118.51	108.20
25	BB	2715	C	C6-N1-C2	-12.88	115.15	120.30
1	AP	49	C	O4'-C1'-N1	12.88	118.50	108.20
1	AP	69	U	C5-C6-N1	-12.88	116.26	122.70
25	BB	578	G	C4-C5-N7	12.88	115.95	110.80
3	A1	797	C	C2-N3-C4	-12.88	113.46	119.90
1	AA	35	A	C5-C6-N1	12.88	124.14	117.70
25	BB	461	C	N3-C4-C5	12.88	127.05	121.90
25	BB	757	G	C6-C5-N7	12.88	138.12	130.40
25	BB	1088	A	O4'-C1'-N9	12.87	118.50	108.20
25	BB	1471	G	N3-C2-N2	-12.88	110.89	119.90
25	BB	2163	A	N1-C6-N6	-12.88	110.88	118.60
3	A1	1426	G	C5-C6-N1	12.87	117.94	111.50
9	AH	87	ARG	NE-CZ-NH1	12.87	126.74	120.30
25	BB	651	G	N1-C6-O6	-12.87	112.18	119.90
25	BB	900	A	C5-C6-N1	12.87	124.14	117.70
25	BB	1628	G	N3-C4-C5	-12.87	122.16	128.60
25	BB	1687	G	N1-C6-O6	-12.87	112.18	119.90
25	BB	2621	G	N3-C4-C5	-12.87	122.16	128.60
3	A1	329	A	N1-C6-N6	-12.87	110.88	118.60
25	BB	1128	G	C5-C6-N1	12.87	117.94	111.50
3	A1	300	A	C4-C5-C6	-12.87	110.57	117.00
3	A1	1509	C	N3-C4-C5	12.87	127.05	121.90
25	BB	1109	C	C5-C6-N1	-12.87	114.57	121.00
3	A1	189	A	N1-C6-N6	-12.87	110.88	118.60
25	BB	1410	G	N1-C6-O6	-12.86	112.18	119.90
3	A1	704	A	C5-N7-C8	-12.86	97.47	103.90
25	BB	2829	A	N1-C6-N6	-12.86	110.88	118.60
25	BB	2261	C	N1-C2-O2	12.86	126.61	118.90
3	A1	300	A	N1-C6-N6	-12.86	110.89	118.60
3	A1	1092	A	C8-N9-C4	-12.86	100.66	105.80
25	BB	39	G	N3-C2-N2	-12.86	110.90	119.90
25	BB	1587	G	N7-C8-N9	12.85	119.53	113.10
3	A1	1477	U	C5-C6-N1	-12.85	116.27	122.70
25	BB	434	U	N3-C2-O2	-12.85	113.20	122.20
1	AA	21	A	N1-C2-N3	-12.85	122.88	129.30
3	A1	244	U	O4'-C1'-N1	12.85	118.48	108.20
3	A1	676	A	O4'-C1'-N9	12.85	118.48	108.20
3	A1	1221	G	C6-N1-C2	-12.85	117.39	125.10
25	BB	909	A	C5-C6-N1	12.85	124.12	117.70
3	A1	1507	A	C5-N7-C8	12.85	110.32	103.90
25	BB	1194	A	C4-C5-C6	-12.85	110.58	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1871	A	C5-C6-N1	12.85	124.12	117.70
25	BB	445	C	C2-N3-C4	-12.84	113.48	119.90
25	BB	2170	A	N1-C6-N6	-12.84	110.89	118.60
25	BB	2354	C	N3-C2-O2	-12.84	112.91	121.90
25	BB	2541	A	C5-C6-N1	12.84	124.12	117.70
25	BB	2617	U	C5-C6-N1	-12.84	116.28	122.70
1	AP	57	G	N3-C4-C5	-12.84	122.18	128.60
25	BB	537	G	C5-C6-N1	12.84	117.92	111.50
25	BB	2677	G	C5-C6-N1	12.84	117.92	111.50
25	BB	943	A	C1'-O4'-C4'	-12.84	99.63	109.90
25	BB	1863	G	O4'-C1'-N9	12.84	118.47	108.20
3	A1	461	A	C5-C6-N1	12.83	124.12	117.70
25	BB	207	A	C5-C6-N6	12.83	133.97	123.70
25	BB	691	C	N1-C2-O2	12.83	126.60	118.90
3	A1	1061	G	C6-C5-N7	12.83	138.10	130.40
3	A1	621	A	C2-N3-C4	12.83	117.01	110.60
1	AA	12	U	C5-C6-N1	-12.83	116.29	122.70
3	A1	598	U	N1-C2-O2	12.83	131.78	122.80
25	BB	880	G	C8-N9-C4	12.83	111.53	106.40
25	BB	2153	C	N3-C4-C5	12.83	127.03	121.90
25	BB	456	C	N3-C4-C5	12.82	127.03	121.90
1	AE	54	U	O4'-C1'-N1	12.82	118.46	108.20
3	A1	795	C	C1'-O4'-C4'	-12.82	99.64	109.90
3	A1	1374	A	C5-C6-N1	12.82	124.11	117.70
25	BB	943	A	C6-C5-N7	12.82	141.27	132.30
25	BB	2721	A	C8-N9-C4	-12.82	100.67	105.80
3	A1	383	A	C4-C5-C6	-12.82	110.59	117.00
25	BB	559	G	N1-C6-O6	-12.82	112.21	119.90
25	BB	1050	A	N1-C6-N6	-12.82	110.91	118.60
25	BB	817	C	N1-C2-O2	12.81	126.59	118.90
25	BB	2243	U	O4'-C1'-N1	12.81	118.45	108.20
3	A1	1406	U	C5-C6-N1	-12.81	116.29	122.70
25	BB	86	G	N3-C2-N2	-12.81	110.93	119.90
25	BB	1703	G	C6-N1-C2	-12.81	117.41	125.10
3	A1	169	C	C4'-C3'-C2'	-12.81	89.79	102.60
25	BB	1086	A	C5-C6-N1	12.81	124.10	117.70
3	A1	360	G	C8-N9-C4	-12.81	101.28	106.40
25	BB	382	A	C4-C5-C6	-12.81	110.60	117.00
25	BB	1477	A	N1-C6-N6	-12.81	110.92	118.60
25	BB	920	A	N1-C6-N6	-12.80	110.92	118.60
25	BB	2530	A	N1-C6-N6	-12.81	110.92	118.60
3	A1	81	A	N7-C8-N9	12.80	120.20	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1258	G	C8-N9-C4	-12.80	101.28	106.40
25	BB	1322	A	N1-C6-N6	-12.80	110.92	118.60
24	BA	56	G	O4'-C1'-N9	12.80	118.44	108.20
25	BB	1282	U	C5-C4-O4	12.80	133.58	125.90
25	BB	2546	U	O4'-C1'-N1	12.80	118.44	108.20
1	AA	56	C	N3-C2-O2	-12.80	112.94	121.90
3	A1	1293	C	N3-C4-C5	12.80	127.02	121.90
25	BB	791	C	N3-C2-O2	-12.80	112.94	121.90
1	AA	72	C	N3-C4-C5	12.79	127.02	121.90
25	BB	1230	A	N1-C6-N6	-12.80	110.92	118.60
25	BB	1494	A	C4-C5-C6	-12.79	110.60	117.00
25	BB	1762	A	C5-C6-N1	12.80	124.10	117.70
30	BG	22	ARG	NE-CZ-NH1	12.80	126.70	120.30
25	BB	2	G	N9-C4-C5	12.79	110.52	105.40
25	BB	1377	G	C8-N9-C4	-12.79	101.28	106.40
3	A1	378	G	N1-C6-O6	-12.79	112.23	119.90
25	BB	1682	G	C4-C5-N7	-12.79	105.68	110.80
3	A1	1311	A	C4-C5-C6	-12.79	110.61	117.00
55	B6	69	ARG	NE-CZ-NH1	12.79	126.69	120.30
3	A1	272	C	N3-C4-C5	12.79	127.01	121.90
3	A1	501	C	N1-C2-N3	12.79	128.15	119.20
3	A1	1520	C	N3-C2-O2	-12.78	112.95	121.90
25	BB	1873	G	C6-C5-N7	12.78	138.07	130.40
25	BB	2509	G	N3-C4-C5	-12.78	122.21	128.60
3	A1	1239	A	C6-C5-N7	12.78	141.25	132.30
25	BB	2287	A	C5-C6-N1	12.78	124.09	117.70
3	A1	1401	G	C2-N3-C4	12.78	118.29	111.90
24	BA	39	A	O4'-C1'-N9	12.77	118.42	108.20
25	BB	583	G	C4-C5-N7	-12.77	105.69	110.80
25	BB	2254	C	N1-C2-O2	12.77	126.56	118.90
25	BB	2797	U	C5-C6-N1	-12.77	116.31	122.70
3	A1	1254	A	C2-N3-C4	12.77	116.98	110.60
25	BB	41	C	N3-C2-O2	-12.77	112.96	121.90
25	BB	1689	A	C5-C6-N1	12.77	124.08	117.70
25	BB	1786	A	C4-C5-C6	-12.77	110.62	117.00
1	AE	66	A	C5-C6-N1	12.77	124.08	117.70
3	A1	756	C	N3-C4-C5	12.76	127.00	121.90
25	BB	1857	G	C5-C6-N1	12.76	117.88	111.50
25	BB	2813	A	N7-C8-N9	12.76	120.18	113.80
25	BB	2371	G	C4-C5-N7	-12.76	105.70	110.80
25	BB	2445	G	N1-C6-O6	-12.76	112.25	119.90
25	BB	445	C	N3-C4-C5	12.76	127.00	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2120	G	C5-C6-N1	12.76	117.88	111.50
25	BB	1237	A	C4-C5-C6	-12.76	110.62	117.00
3	A1	309	A	C2-N3-C4	12.75	116.98	110.60
3	A1	167	A	C4-C5-C6	-12.75	110.62	117.00
3	A1	976	G	O4'-C1'-N9	12.75	118.40	108.20
3	A1	1082	A	N1-C6-N6	-12.75	110.95	118.60
3	A1	1039	G	N1-C6-O6	-12.75	112.25	119.90
1	AA	52	U	O4'-C1'-N1	12.75	118.40	108.20
3	A1	1332	A	C4-C5-C6	-12.75	110.62	117.00
25	BB	1385	A	N1-C6-N6	-12.75	110.95	118.60
25	BB	1084	A	C5-N7-C8	-12.74	97.53	103.90
3	A1	1306	A	N9-C4-C5	12.74	110.90	105.80
25	BB	926	G	C4-C5-C6	-12.74	111.15	118.80
48	BY	77	ARG	NE-CZ-NH2	-12.74	113.93	120.30
1	AP	22	G	N3-C2-N2	-12.74	110.98	119.90
25	BB	775	G	O4'-C1'-N9	12.74	118.39	108.20
25	BB	2264	C	N3-C2-O2	-12.74	112.98	121.90
3	A1	431	A	C4-C5-C6	-12.74	110.63	117.00
3	A1	1018	G	C5-C6-N1	12.74	117.87	111.50
25	BB	541	A	N1-C6-N6	-12.74	110.96	118.60
25	BB	2177	C	N3-C4-C5	12.73	126.99	121.90
3	A1	1261	A	C8-N9-C4	-12.73	100.71	105.80
25	BB	2071	A	OP1-P-OP2	-12.73	100.50	119.60
25	BB	345	A	C5-C6-N1	12.73	124.06	117.70
25	BB	1	G	N9-C4-C5	12.72	110.49	105.40
3	A1	183	C	C4-C5-C6	-12.72	111.04	117.40
3	A1	1000	A	C5-C6-N1	12.72	124.06	117.70
12	AK	47	ARG	NE-CZ-NH1	12.72	126.66	120.30
25	BB	2665	A	N1-C6-N6	-12.72	110.97	118.60
25	BB	2371	G	N7-C8-N9	12.72	119.46	113.10
3	A1	1533	C	N1-C2-O2	12.71	126.53	118.90
25	BB	2054	A	C4-C5-C6	-12.72	110.64	117.00
25	BB	2861	U	C5-C6-N1	-12.72	116.34	122.70
3	A1	574	A	N1-C6-N6	-12.71	110.97	118.60
24	BA	21	G	N7-C8-N9	12.71	119.46	113.10
25	BB	2583	G	N7-C8-N9	12.71	119.46	113.10
3	A1	994	A	N1-C6-N6	-12.71	110.97	118.60
5	AC	55	ARG	NE-CZ-NH1	12.71	126.66	120.30
25	BB	1668	A	C5-C6-N1	12.71	124.05	117.70
44	BU	27	ARG	NE-CZ-NH2	12.71	126.65	120.30
3	A1	1503	A	N1-C6-N6	-12.71	110.98	118.60
25	BB	2742	G	N3-C2-N2	-12.71	111.00	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	23	C	C6-N1-C2	-12.70	115.22	120.30
3	A1	400	C	N3-C2-O2	-12.70	113.01	121.90
25	BB	2274	A	C5-C6-N1	12.71	124.05	117.70
25	BB	2688	G	C5-N7-C8	-12.70	97.95	104.30
3	A1	397	A	C4-C5-C6	-12.70	110.65	117.00
3	A1	1142	G	N1-C6-O6	-12.70	112.28	119.90
24	BA	5	U	O4'-C4'-C3'	12.70	116.70	104.00
3	A1	583	A	C5-C6-N1	12.70	124.05	117.70
1	AP	26	G	N1-C6-O6	-12.70	112.28	119.90
25	BB	141	G	C3'-C2'-C1'	12.69	111.66	101.50
24	BA	6	G	N1-C2-N3	12.69	131.51	123.90
3	A1	1071	C	N3-C4-C5	12.69	126.98	121.90
3	A1	1413	A	C5-C6-N1	12.69	124.05	117.70
25	BB	1454	C	N3-C4-C5	12.69	126.98	121.90
1	AP	27	C	C5-C6-N1	-12.69	114.66	121.00
25	BB	326	G	C8-N9-C4	-12.69	101.33	106.40
25	BB	1672	A	N1-C6-N6	-12.69	110.99	118.60
25	BB	1029	A	C1'-O4'-C4'	-12.69	99.75	109.90
1	AP	29	A	N1-C6-N6	-12.68	110.99	118.60
25	BB	1607	C	N3-C2-O2	-12.68	113.02	121.90
25	BB	1919	A	C6-C5-N7	12.68	141.18	132.30
3	A1	1066	C	C4-C5-C6	12.68	123.74	117.40
1	AE	44	A	C5-C6-N1	12.68	124.04	117.70
25	BB	782	A	N1-C6-N6	-12.68	110.99	118.60
25	BB	1188	U	O4'-C1'-N1	12.68	118.34	108.20
1	AE	67	A	C4-C5-C6	-12.68	110.66	117.00
3	A1	497	G	N3-C4-C5	-12.68	122.26	128.60
25	BB	114	U	O4'-C1'-N1	12.68	118.34	108.20
25	BB	676	A	C5-C6-N1	12.68	124.04	117.70
25	BB	945	A	N7-C8-N9	12.68	120.14	113.80
3	A1	721	G	N1-C6-O6	-12.67	112.30	119.90
3	A1	852	G	N3-C4-C5	-12.67	122.26	128.60
3	A1	1099	G	N3-C4-C5	-12.67	122.26	128.60
20	AU	4	ARG	NE-CZ-NH1	12.67	126.64	120.30
25	BB	1010	A	C2-N3-C4	12.67	116.94	110.60
3	A1	926	G	C4-C5-N7	12.67	115.87	110.80
11	AJ	39	ARG	NE-CZ-NH1	12.67	126.64	120.30
24	BA	113	C	C5-C6-N1	-12.67	114.67	121.00
25	BB	384	A	C8-N9-C4	-12.67	100.73	105.80
3	A1	367	U	N1-C2-O2	12.67	131.67	122.80
3	A1	725	G	N9-C4-C5	12.67	110.47	105.40
25	BB	983	A	C4-C5-C6	-12.67	110.67	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	346	A	C5-C6-N6	12.67	133.83	123.70
25	BB	2600	A	C4-C5-C6	-12.67	110.67	117.00
1	AP	70	C	N3-C4-C5	12.66	126.97	121.90
3	A1	919	A	C4-C5-C6	-12.66	110.67	117.00
17	AR	103	ARG	NE-CZ-NH1	12.66	126.63	120.30
25	BB	1194	A	C5-C6-N1	12.66	124.03	117.70
25	BB	2575	C	N1-C2-O2	12.66	126.50	118.90
25	BB	701	G	O4'-C1'-N9	-12.66	98.07	108.20
25	BB	707	G	C5-N7-C8	-12.66	97.97	104.30
25	BB	1494	A	C5-C6-N1	12.66	124.03	117.70
25	BB	2335	A	C5-C6-N1	12.66	124.03	117.70
25	BB	2536	G	C5-N7-C8	-12.66	97.97	104.30
25	BB	819	A	O4'-C1'-N9	12.66	118.33	108.20
3	A1	200	G	C5-C6-N1	12.65	117.83	111.50
3	A1	926	G	C5-N7-C8	-12.65	97.97	104.30
3	A1	1499	A	C4-C5-C6	-12.65	110.67	117.00
25	BB	2700	A	C4-C5-C6	-12.65	110.67	117.00
3	A1	933	G	C2-N3-C4	-12.65	105.58	111.90
3	A1	1021	A	C5-C6-N1	12.65	124.03	117.70
25	BB	2483	C	N3-C4-C5	12.65	126.96	121.90
25	BB	506	G	C5-C6-N1	12.65	117.83	111.50
25	BB	1673	G	C5-N7-C8	-12.65	97.98	104.30
3	A1	171	A	C5-C6-N6	12.65	133.82	123.70
3	A1	326	G	C8-N9-C4	-12.65	101.34	106.40
24	BA	110	C	N3-C4-N4	-12.65	109.15	118.00
25	BB	140	C	C1'-O4'-C4'	-12.65	99.78	109.90
25	BB	2512	C	C5-C6-N1	-12.65	114.68	121.00
25	BB	2699	C	N3-C4-C5	12.65	126.96	121.90
25	BB	856	G	N1-C6-O6	-12.64	112.31	119.90
25	BB	2714	G	O4'-C4'-C3'	12.64	116.64	104.00
25	BB	2787	C	O4'-C1'-N1	12.64	118.31	108.20
25	BB	457	A	C5-C6-N1	12.64	124.02	117.70
25	BB	1736	U	C5-C4-O4	-12.64	118.31	125.90
3	A1	212	G	N3-C4-N9	12.64	133.58	126.00
24	BA	115	A	C8-N9-C4	-12.64	100.75	105.80
25	BB	2043	C	N3-C2-O2	-12.64	113.05	121.90
25	BB	1168	G	N1-C6-O6	-12.64	112.32	119.90
25	BB	1531	C	C6-N1-C2	-12.64	115.25	120.30
25	BB	1953	A	C5-C6-N1	12.64	124.02	117.70
27	BD	18	ARG	NE-CZ-NH1	12.64	126.62	120.30
25	BB	1168	G	C4-C5-N7	-12.63	105.75	110.80
25	BB	1857	G	O4'-C1'-N9	-12.63	98.09	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	789	A	C5'-C4'-O4'	12.63	124.25	109.10
25	BB	1236	G	C5-C6-N1	12.63	117.81	111.50
1	AA	17	U	N3-C2-O2	-12.63	113.36	122.20
3	A1	1404	C	O4'-C1'-N1	12.63	118.30	108.20
3	A1	1493	A	N1-C6-N6	-12.62	111.03	118.60
25	BB	1172	C	N3-C4-C5	12.62	126.95	121.90
25	BB	1638	C	C2-N3-C4	-12.62	113.59	119.90
25	BB	2792	A	C5-C6-N1	12.62	124.01	117.70
3	A1	1174	G	N3-C4-N9	12.62	133.57	126.00
3	A1	1305	G	O4'-C1'-N9	12.62	118.30	108.20
3	A1	1318	A	N1-C6-N6	-12.62	111.03	118.60
25	BB	1148	U	C5-C6-N1	-12.62	116.39	122.70
25	BB	2333	A	C5-C6-N1	12.62	124.01	117.70
25	BB	1540	G	O4'-C1'-N9	12.62	118.30	108.20
25	BB	1908	C	C6-N1-C2	-12.62	115.25	120.30
25	BB	2683	C	C5-C6-N1	-12.62	114.69	121.00
30	BG	2	ARG	NE-CZ-NH2	-12.62	113.99	120.30
3	A1	819	A	N1-C6-N6	-12.62	111.03	118.60
3	A1	1523	G	C4-C5-N7	-12.62	105.75	110.80
25	BB	1378	A	C5-C6-N1	12.62	124.01	117.70
24	BA	21	G	C5-C6-N1	12.61	117.81	111.50
25	BB	2750	A	C4-C5-C6	-12.62	110.69	117.00
31	BH	7	ARG	NE-CZ-NH1	12.62	126.61	120.30
3	A1	331	G	N1-C6-O6	-12.61	112.33	119.90
3	A1	1492	A	C6-C5-N7	12.61	141.13	132.30
25	BB	2497	A	C4-C5-C6	-12.61	110.69	117.00
3	A1	85	U	O4'-C1'-N1	-12.61	98.11	108.20
3	A1	1434	A	C4-C5-C6	-12.61	110.69	117.00
25	BB	1936	A	N9-C4-C5	-12.61	100.76	105.80
3	A1	807	A	C5-C6-N1	12.61	124.00	117.70
25	BB	1652	A	C2-N3-C4	12.61	116.90	110.60
25	BB	2505	G	C5-C6-O6	12.61	136.17	128.60
25	BB	2705	A	C5-C6-N1	12.61	124.00	117.70
42	BS	59	ARG	NE-CZ-NH1	12.61	126.61	120.30
25	BB	2731	G	N1-C6-O6	-12.61	112.34	119.90
3	A1	264	C	C5-C6-N1	-12.61	114.70	121.00
25	BB	2357	G	C5-C6-N1	12.61	117.80	111.50
1	AA	45	G	O4'-C1'-N9	-12.60	98.12	108.20
21	AV	76	ARG	NE-CZ-NH1	-12.60	114.00	120.30
3	A1	1402	C	N3-C4-C5	12.60	126.94	121.90
3	A1	1507	A	C4-C5-N7	-12.60	104.40	110.70
24	BA	3	C	N3-C2-O2	-12.60	113.08	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	429	A	C4-C5-C6	-12.60	110.70	117.00
25	BB	362	A	C4-C5-C6	-12.60	110.70	117.00
3	A1	873	A	N9-C4-C5	-12.60	100.76	105.80
25	BB	783	A	N1-C6-N6	-12.60	111.04	118.60
25	BB	2565	A	C5-C6-N1	12.60	124.00	117.70
3	A1	1492	A	C5-C6-N1	12.59	124.00	117.70
22	AW	118	ARG	NE-CZ-NH1	12.59	126.60	120.30
25	BB	1849	G	C6-N1-C2	-12.59	117.54	125.10
24	BA	114	C	N3-C2-O2	-12.59	113.09	121.90
25	BB	2102	G	N1-C6-O6	-12.59	112.35	119.90
39	BP	13	ARG	NE-CZ-NH1	12.59	126.60	120.30
25	BB	219	A	N1-C6-N6	-12.59	111.05	118.60
25	BB	2049	G	C4'-C3'-C2'	-12.59	90.02	102.60
25	BB	2520	C	N1-C2-O2	12.59	126.45	118.90
3	A1	1092	A	N7-C8-N9	12.58	120.09	113.80
25	BB	10	A	C5-C6-N6	12.58	133.76	123.70
25	BB	131	A	O4'-C1'-N9	12.58	118.27	108.20
25	BB	2308	G	C5-C6-N1	12.58	117.79	111.50
1	AE	29	A	C4-C5-C6	-12.58	110.71	117.00
3	A1	1244	G	N9-C4-C5	12.58	110.43	105.40
3	A1	687	A	C2-N3-C4	12.58	116.89	110.60
25	BB	307	G	C5-C6-N1	12.58	117.79	111.50
29	BF	51	ARG	NE-CZ-NH1	12.58	126.59	120.30
3	A1	1069	C	C5-C6-N1	-12.57	114.71	121.00
24	BA	116	G	O4'-C4'-C3'	12.57	116.57	104.00
25	BB	2597	G	N1-C2-N3	12.57	131.44	123.90
24	BA	91	C	N3-C2-O2	-12.57	113.10	121.90
25	BB	1269	A	C4-C5-C6	-12.57	110.72	117.00
25	BB	1284	A	C4-C5-C6	-12.57	110.72	117.00
1	AP	7	U	N3-C2-O2	-12.56	113.41	122.20
25	BB	1269	A	N1-C2-N3	-12.56	123.02	129.30
25	BB	2716	C	N1-C2-O2	12.56	126.44	118.90
25	BB	1407	G	C8-N9-C4	-12.56	101.38	106.40
25	BB	2197	U	O4'-C1'-N1	12.56	118.25	108.20
3	A1	805	C	N3-C2-O2	-12.56	113.11	121.90
25	BB	2395	C	N3-C2-O2	-12.56	113.11	121.90
3	A1	737	C	C2-N3-C4	-12.55	113.62	119.90
3	A1	988	G	C3'-C2'-C1'	12.55	111.54	101.50
24	BA	113	C	N1-C2-O2	12.56	126.43	118.90
25	BB	1073	A	C5-N7-C8	-12.55	97.62	103.90
25	BB	2400	G	N3-C2-N2	-12.55	111.11	119.90
41	BR	37	ARG	NE-CZ-NH1	12.55	126.58	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1121	U	C4'-C3'-C2'	-12.55	90.05	102.60
3	A1	1480	A	N1-C6-N6	-12.55	111.07	118.60
25	BB	356	G	C8-N9-C4	-12.55	101.38	106.40
25	BB	365	U	N3-C2-O2	-12.55	113.42	122.20
25	BB	699	A	C3'-C2'-C1'	12.55	111.54	101.50
25	BB	730	A	C5-N7-C8	-12.55	97.63	103.90
25	BB	1532	A	N1-C6-N6	-12.55	111.07	118.60
55	B6	35	ARG	NE-CZ-NH1	12.55	126.57	120.30
25	BB	172	A	N1-C6-N6	-12.54	111.07	118.60
9	AH	53	ARG	NE-CZ-NH1	12.54	126.57	120.30
25	BB	2491	U	N3-C4-O4	12.54	128.18	119.40
25	BB	1308	A	C4-C5-C6	-12.54	110.73	117.00
1	AE	43	G	C2-N3-C4	-12.54	105.63	111.90
3	A1	414	A	C5-C6-N6	12.54	133.73	123.70
3	A1	1220	G	N1-C6-O6	-12.54	112.38	119.90
25	BB	1069	A	C5-C6-N1	12.54	123.97	117.70
25	BB	1454	C	O4'-C1'-N1	12.54	118.23	108.20
25	BB	1640	A	C5-C6-N1	12.54	123.97	117.70
25	BB	1156	A	C5-C6-N1	12.54	123.97	117.70
24	BA	60	C	C5-C6-N1	-12.53	114.73	121.00
25	BB	2239	G	C3'-C2'-C1'	12.53	111.53	101.50
24	BA	89	U	N3-C4-C5	-12.53	107.08	114.60
25	BB	1790	C	N3-C2-O2	-12.53	113.13	121.90
25	BB	1161	C	N3-C4-N4	-12.53	109.23	118.00
25	BB	2516	A	C4-C5-C6	-12.53	110.74	117.00
3	A1	77	A	N1-C6-N6	-12.53	111.08	118.60
3	A1	973	G	N9-C4-C5	-12.53	100.39	105.40
25	BB	25	U	C5-C6-N1	-12.53	116.44	122.70
25	BB	95	A	N1-C6-N6	-12.53	111.08	118.60
25	BB	104	A	N1-C6-N6	-12.53	111.08	118.60
25	BB	654	A	C4-C5-C6	-12.52	110.74	117.00
1	AP	3	G	C6-N1-C2	-12.52	117.59	125.10
25	BB	824	U	C5-C6-N1	-12.52	116.44	122.70
1	AP	31	A	C5-C6-N1	12.52	123.96	117.70
3	A1	1084	G	N1-C6-O6	-12.52	112.39	119.90
25	BB	2215	C	C4-C5-C6	-12.52	111.14	117.40
25	BB	2413	G	N1-C6-O6	-12.52	112.39	119.90
3	A1	1047	G	C5-C6-N1	12.51	117.76	111.50
25	BB	392	U	C6-N1-C2	-12.51	113.49	121.00
25	BB	2272	U	O4'-C1'-N1	12.51	118.21	108.20
25	BB	2464	G	C8-N9-C4	-12.51	101.40	106.40
3	A1	883	C	C5-C6-N1	-12.51	114.75	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1375	A	N1-C6-N6	-12.51	111.09	118.60
25	BB	2666	C	C2-N3-C4	-12.51	113.65	119.90
25	BB	463	G	C3'-C2'-C1'	12.51	111.50	101.50
25	BB	2891	U	C6-N1-C2	-12.51	113.50	121.00
25	BB	578	G	C5-N7-C8	-12.51	98.05	104.30
25	BB	2081	U	C2-N3-C4	-12.51	119.50	127.00
3	A1	216	U	C5-C6-N1	-12.50	116.45	122.70
25	BB	127	A	C2-N3-C4	12.50	116.85	110.60
25	BB	2035	G	N1-C2-N3	12.50	131.40	123.90
3	A1	21	G	N3-C4-C5	-12.50	122.35	128.60
15	AO	71	ARG	NE-CZ-NH1	12.50	126.55	120.30
25	BB	376	G	C5-C6-O6	-12.50	121.10	128.60
25	BB	1153	C	N3-C4-N4	-12.50	109.25	118.00
25	BB	2434	A	N1-C6-N6	-12.50	111.10	118.60
25	BB	1532	A	C4-C5-C6	-12.50	110.75	117.00
25	BB	678	C	N3-C2-O2	-12.50	113.15	121.90
25	BB	1837	C	O4'-C1'-C2'	-12.50	93.30	105.80
25	BB	2445	G	O4'-C1'-N9	12.50	118.20	108.20
3	A1	684	U	N1-C2-O2	12.49	131.55	122.80
25	BB	88	G	C5-C6-N1	12.49	117.75	111.50
25	BB	336	C	N3-C4-C5	12.49	126.90	121.90
25	BB	346	A	C5-C6-N1	12.49	123.95	117.70
25	BB	1933	G	N9-C4-C5	12.49	110.40	105.40
50	B1	170	ARG	NE-CZ-NH2	12.49	126.55	120.30
24	BA	101	A	N1-C6-N6	-12.49	111.11	118.60
25	BB	496	G	N3-C4-C5	-12.49	122.36	128.60
25	BB	1506	U	N3-C2-O2	-12.49	113.46	122.20
25	BB	340	A	C4-C5-C6	-12.48	110.76	117.00
25	BB	881	G	N1-C2-N3	12.48	131.39	123.90
25	BB	2307	G	C5-N7-C8	-12.48	98.06	104.30
3	A1	973	G	C5-C6-O6	12.48	136.09	128.60
25	BB	1096	A	C5-C6-N1	12.48	123.94	117.70
25	BB	223	A	C5-N7-C8	-12.48	97.66	103.90
25	BB	1793	C	N1-C2-N3	12.48	127.94	119.20
42	BS	25	ARG	NE-CZ-NH1	12.48	126.54	120.30
1	AA	46	G	N7-C8-N9	12.48	119.34	113.10
1	AP	71	G	C5-C6-N1	12.48	117.74	111.50
3	A1	761	G	C8-N9-C4	-12.48	101.41	106.40
1	AP	20	G	C4'-C3'-C2'	-12.47	90.13	102.60
25	BB	298	G	C5-C6-N1	12.47	117.74	111.50
25	BB	1654	A	N9-C4-C5	12.47	110.79	105.80
25	BB	1078	U	N1-C2-N3	12.47	122.38	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2751	G	C8-N9-C4	-12.47	101.41	106.40
1	AA	4	G	C4-C5-N7	-12.47	105.81	110.80
1	AE	5	A	C5-C6-N1	12.47	123.94	117.70
24	BA	13	G	N7-C8-N9	-12.47	106.86	113.10
25	BB	134	G	C5-C6-O6	12.47	136.08	128.60
25	BB	1062	G	C2-N3-C4	-12.47	105.66	111.90
3	A1	115	G	C2-N3-C4	12.47	118.13	111.90
3	A1	901	A	N1-C6-N6	-12.47	111.12	118.60
25	BB	1531	C	N3-C2-O2	-12.47	113.17	121.90
25	BB	2709	G	N3-C4-C5	-12.47	122.36	128.60
25	BB	2731	G	C5-C6-N1	12.47	117.73	111.50
25	BB	2800	A	C5-C6-N1	12.47	123.93	117.70
25	BB	871	U	N1-C2-O2	12.46	131.53	122.80
3	A1	768	A	C5-C6-N1	12.46	123.93	117.70
25	BB	183	C	N3-C4-N4	-12.46	109.28	118.00
25	BB	615	U	N3-C2-O2	-12.46	113.48	122.20
3	A1	157	U	C5-C6-N1	-12.46	116.47	122.70
25	BB	2430	A	C6-N1-C2	-12.46	111.13	118.60
25	BB	690	G	C5-C6-O6	12.45	136.07	128.60
25	BB	1894	C	N1-C2-O2	12.45	126.37	118.90
3	A1	78	A	C4-C5-C6	-12.45	110.77	117.00
25	BB	1792	G	N1-C6-O6	-12.45	112.43	119.90
25	BB	1929	G	N1-C6-O6	-12.45	112.43	119.90
25	BB	209	C	C6-N1-C2	-12.45	115.32	120.30
25	BB	1426	G	C5-C6-N1	12.45	117.72	111.50
25	BB	520	G	C5-C6-N1	12.45	117.72	111.50
25	BB	1996	C	C5-C6-N1	-12.45	114.78	121.00
51	B2	132	ARG	NE-CZ-NH1	12.45	126.52	120.30
3	A1	303	A	C5-C6-N1	12.45	123.92	117.70
3	A1	562	U	N1-C2-O2	12.45	131.51	122.80
3	A1	980	C	N3-C4-C5	12.44	126.88	121.90
25	BB	1232	G	N1-C6-O6	-12.44	112.43	119.90
25	BB	1253	A	C5-C6-N1	12.45	123.92	117.70
38	BO	21	ARG	NE-CZ-NH1	12.44	126.52	120.30
3	A1	783	C	N3-C4-C5	-12.44	116.92	121.90
25	BB	217	A	N1-C6-N6	-12.44	111.14	118.60
28	BE	132	ARG	NE-CZ-NH1	12.44	126.52	120.30
3	A1	791	G	N1-C6-O6	-12.44	112.44	119.90
3	A1	1398	A	C5-C6-N1	12.44	123.92	117.70
25	BB	921	C	C6-N1-C2	12.44	125.28	120.30
25	BB	1280	G	N1-C6-O6	-12.44	112.44	119.90
25	BB	2022	U	N1-C2-N3	12.44	122.36	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	960	U	O4'-C1'-N1	12.44	118.15	108.20
25	BB	1800	C	O4'-C1'-N1	12.44	118.15	108.20
25	BB	2441	U	C5-C6-N1	-12.44	116.48	122.70
1	AP	44	A	C4-C5-C6	-12.44	110.78	117.00
50	B1	88	ARG	NE-CZ-NH2	-12.44	114.08	120.30
25	BB	330	A	C2-N3-C4	12.44	116.82	110.60
3	A1	1166	G	N3-C2-N2	-12.43	111.20	119.90
12	AK	56	ARG	NE-CZ-NH1	12.43	126.52	120.30
25	BB	1307	A	N1-C6-N6	-12.43	111.14	118.60
25	BB	1846	G	O4'-C1'-N9	12.43	118.15	108.20
3	A1	1280	A	O4'-C1'-N9	12.43	118.15	108.20
25	BB	333	G	C4-C5-N7	12.43	115.77	110.80
25	BB	2376	A	N1-C6-N6	-12.43	111.14	118.60
25	BB	34	U	O4'-C1'-N1	12.43	118.14	108.20
25	BB	1800	C	C2-N3-C4	-12.43	113.68	119.90
25	BB	1612	C	N3-C2-O2	-12.43	113.20	121.90
3	A1	624	C	N3-C4-C5	12.43	126.87	121.90
3	A1	1260	G	N1-C6-O6	-12.43	112.44	119.90
3	A1	1394	A	C6-C5-N7	12.43	141.00	132.30
3	A1	1507	A	N1-C2-N3	-12.43	123.09	129.30
25	BB	941	A	N7-C8-N9	12.43	120.01	113.80
25	BB	1787	A	C5-C6-N1	12.43	123.91	117.70
25	BB	2699	C	N1-C2-O2	12.43	126.36	118.90
25	BB	1181	U	C5-C6-N1	-12.42	116.49	122.70
25	BB	1270	C	N1-C2-O2	12.42	126.35	118.90
52	B3	148	ARG	NE-CZ-NH1	12.42	126.51	120.30
3	A1	82	G	N1-C6-O6	-12.42	112.45	119.90
3	A1	743	A	C5-C6-N1	12.42	123.91	117.70
25	BB	776	G	N3-C4-N9	12.42	133.45	126.00
25	BB	982	C	N1-C2-O2	12.42	126.35	118.90
25	BB	1700	A	C5-N7-C8	-12.42	97.69	103.90
25	BB	2427	C	N3-C2-O2	-12.42	113.21	121.90
25	BB	2446	G	N1-C6-O6	-12.42	112.45	119.90
3	A1	946	A	C4-C5-N7	12.41	116.91	110.70
25	BB	1574	C	N3-C4-C5	12.41	126.87	121.90
3	A1	1230	C	O4'-C1'-N1	12.41	118.13	108.20
25	BB	457	A	C8-N9-C4	-12.41	100.83	105.80
25	BB	1617	C	N3-C2-O2	-12.41	113.21	121.90
25	BB	1079	C	N3-C4-N4	-12.41	109.31	118.00
25	BB	433	C	O4'-C1'-N1	12.41	118.13	108.20
25	BB	779	U	N3-C2-O2	-12.41	113.52	122.20
1	AE	63	C	C2-N3-C4	-12.40	113.70	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	177	G	O4'-C1'-N9	12.40	118.12	108.20
3	A1	499	A	C6-C5-N7	12.40	140.98	132.30
25	BB	1673	G	O4'-C1'-N9	12.40	118.12	108.20
25	BB	1052	C	N3-C2-O2	-12.40	113.22	121.90
3	A1	247	G	N1-C2-N3	12.40	131.34	123.90
3	A1	1053	G	C4-C5-N7	-12.40	105.84	110.80
3	A1	1089	G	N9-C4-C5	12.39	110.36	105.40
3	A1	1201	A	C5-C6-N1	12.39	123.90	117.70
25	BB	501	A	C5'-C4'-O4'	12.39	123.97	109.10
25	BB	1223	G	C5-C6-N1	12.39	117.70	111.50
25	BB	1706	C	N3-C4-N4	-12.39	109.32	118.00
25	BB	1985	C	N3-C2-O2	-12.39	113.22	121.90
25	BB	2076	U	O4'-C1'-N1	12.39	118.11	108.20
25	BB	2639	A	N1-C6-N6	-12.39	111.17	118.60
25	BB	666	A	N1-C2-N3	-12.39	123.11	129.30
25	BB	883	G	O4'-C1'-N9	12.39	118.11	108.20
25	BB	2520	C	N1-C2-N3	12.39	127.87	119.20
25	BB	934	U	N3-C2-O2	-12.39	113.53	122.20
52	B3	2	ARG	NE-CZ-NH1	12.39	126.49	120.30
3	A1	240	G	N7-C8-N9	12.39	119.29	113.10
25	BB	2279	G	N9-C4-C5	12.39	110.36	105.40
3	A1	335	C	O4'-C1'-N1	12.38	118.10	108.20
3	A1	1288	A	C5-C6-N1	12.38	123.89	117.70
25	BB	1649	G	N1-C6-O6	-12.38	112.47	119.90
25	BB	1900	A	N1-C6-N6	-12.38	111.17	118.60
25	BB	2090	A	C6-C5-N7	12.38	140.97	132.30
1	AP	66	A	C4-C5-C6	-12.38	110.81	117.00
3	A1	1003	G	N1-C6-O6	-12.38	112.47	119.90
3	A1	1225	A	C5-C6-N1	12.38	123.89	117.70
25	BB	1171	G	C5-C6-N1	12.38	117.69	111.50
25	BB	1427	A	C4-C5-C6	-12.38	110.81	117.00
25	BB	1544	A	C4-C5-C6	-12.38	110.81	117.00
3	A1	169	C	O4'-C1'-C2'	-12.38	93.42	105.80
3	A1	83	C	N3-C2-O2	-12.37	113.24	121.90
19	AT	79	ARG	NH1-CZ-NH2	-12.37	105.79	119.40
25	BB	1	G	C4-C5-N7	-12.37	105.85	110.80
25	BB	2755	C	N1-C2-O2	12.37	126.32	118.90
3	A1	825	A	N1-C6-N6	-12.37	111.18	118.60
25	BB	1986	C	N3-C4-N4	-12.37	109.34	118.00
25	BB	1587	G	C8-N9-C4	-12.37	101.45	106.40
1	AP	17	U	C5-C6-N1	-12.36	116.52	122.70
25	BB	208	C	N3-C2-O2	-12.36	113.25	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	304	U	C5-C6-N1	-12.36	116.52	122.70
5	AC	52	ARG	NE-CZ-NH1	12.36	126.48	120.30
25	BB	922	C	C5-C6-N1	-12.36	114.82	121.00
25	BB	1089	A	C4-C5-C6	-12.36	110.82	117.00
3	A1	449	G	N3-C4-C5	-12.36	122.42	128.60
35	BL	110	ARG	NE-CZ-NH2	12.36	126.48	120.30
1	AA	74	C	C4'-C3'-C2'	-12.36	90.24	102.60
3	A1	139	A	C6-C5-N7	12.36	140.95	132.30
25	BB	515	A	C5-C6-N1	12.36	123.88	117.70
25	BB	2547	A	O4'-C1'-N9	-12.36	98.32	108.20
3	A1	624	C	O4'-C1'-N1	12.35	118.08	108.20
25	BB	2265	U	N1-C2-N3	12.35	122.31	114.90
6	AD	98	ARG	NE-CZ-NH2	12.35	126.48	120.30
25	BB	161	A	C5-C6-N1	12.35	123.88	117.70
25	BB	324	A	C4-C5-C6	-12.35	110.83	117.00
3	A1	1060	U	C5-C6-N1	-12.35	116.53	122.70
3	A1	1183	U	N1-C2-N3	12.35	122.31	114.90
25	BB	778	G	C6-N1-C2	-12.35	117.69	125.10
25	BB	2278	A	C4-C5-C6	-12.35	110.83	117.00
25	BB	2768	U	C5-C6-N1	-12.35	116.53	122.70
25	BB	59	U	C5'-C4'-O4'	12.35	123.91	109.10
25	BB	1182	G	N1-C6-O6	-12.35	112.49	119.90
3	A1	601	G	N3-C2-N2	-12.34	111.26	119.90
25	BB	326	G	C5-N7-C8	-12.34	98.13	104.30
25	BB	2651	C	N3-C4-N4	-12.34	109.36	118.00
25	BB	262	A	C5-C6-N1	12.34	123.87	117.70
25	BB	2238	G	OP1-P-OP2	-12.34	101.09	119.60
3	A1	1438	G	N3-C4-C5	-12.34	122.43	128.60
25	BB	1610	A	C5-C6-N6	12.34	133.57	123.70
25	BB	1661	G	O4'-C1'-N9	12.34	118.07	108.20
3	A1	450	G	N3-C2-N2	-12.33	111.27	119.90
25	BB	627	A	N1-C6-N6	-12.33	111.20	118.60
25	BB	637	A	C8-N9-C4	12.33	110.73	105.80
25	BB	1773	A	C4-C5-N7	-12.33	104.53	110.70
3	A1	116	A	N1-C6-N6	-12.33	111.20	118.60
25	BB	869	G	C6-C5-N7	12.33	137.80	130.40
25	BB	1214	A	N9-C4-C5	12.33	110.73	105.80
25	BB	2529	G	N1-C6-O6	-12.33	112.50	119.90
1	AE	49	C	N3-C4-N4	-12.33	109.37	118.00
3	A1	700	G	N1-C6-O6	-12.33	112.50	119.90
25	BB	91	A	N1-C2-N3	-12.33	123.14	129.30
25	BB	2371	G	C5'-C4'-O4'	12.33	123.89	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	524	G	N1-C6-O6	-12.32	112.51	119.90
24	BA	38	C	C5-C4-N4	12.32	128.83	120.20
25	BB	549	G	N3-C4-N9	12.32	133.39	126.00
25	BB	1156	A	O4'-C1'-N9	12.32	118.06	108.20
3	A1	1433	A	C5-C6-N1	12.32	123.86	117.70
25	BB	1080	A	C5-C6-N1	12.32	123.86	117.70
25	BB	1236	G	C6-N1-C2	-12.32	117.71	125.10
25	BB	2850	A	C5-C6-N6	12.32	133.55	123.70
25	BB	536	G	O4'-C1'-N9	12.31	118.05	108.20
25	BB	563	A	C5-C6-N1	12.31	123.86	117.70
25	BB	637	A	C5-C6-N1	12.31	123.86	117.70
25	BB	853	C	N3-C4-C5	12.31	126.83	121.90
25	BB	2263	C	N1-C2-N3	12.31	127.82	119.20
25	BB	2612	C	N3-C4-C5	12.31	126.83	121.90
25	BB	2127	G	N3-C4-C5	-12.31	122.44	128.60
37	BN	181	ARG	NE-CZ-NH2	12.31	126.45	120.30
3	A1	873	A	N1-C6-N6	-12.31	111.21	118.60
25	BB	2403	C	N3-C4-N4	-12.31	109.38	118.00
3	A1	901	A	C5-C6-N1	12.31	123.85	117.70
3	A1	1080	A	N1-C6-N6	-12.31	111.22	118.60
25	BB	953	G	N7-C8-N9	12.31	119.25	113.10
25	BB	2730	C	N3-C4-N4	-12.31	109.39	118.00
24	BA	71	C	N3-C2-O2	-12.31	113.29	121.90
25	BB	2255	G	N9-C4-C5	12.31	110.32	105.40
3	A1	650	G	C5-C6-N1	12.30	117.65	111.50
25	BB	189	G	C5-N7-C8	-12.30	98.15	104.30
25	BB	1191	G	N1-C6-O6	-12.30	112.52	119.90
1	AA	1	G	N3-C2-N2	-12.30	111.29	119.90
25	BB	87	U	C5-C6-N1	-12.30	116.55	122.70
25	BB	1050	A	C5-C6-N1	12.30	123.85	117.70
25	BB	2038	G	C5-C6-N1	12.30	117.65	111.50
25	BB	2311	A	C2-N3-C4	12.30	116.75	110.60
25	BB	2606	C	C2-N3-C4	-12.30	113.75	119.90
25	BB	53	A	N1-C6-N6	-12.29	111.22	118.60
25	BB	1261	C	N3-C2-O2	-12.29	113.29	121.90
3	A1	697	U	N3-C2-O2	-12.29	113.60	122.20
3	A1	242	G	C5-C6-O6	12.29	135.97	128.60
25	BB	1647	U	O4'-C1'-N1	12.29	118.03	108.20
25	BB	2050	C	N3-C2-O2	-12.29	113.30	121.90
1	AE	60	C	N3-C2-O2	-12.29	113.30	121.90
3	A1	425	G	N1-C6-O6	-12.29	112.53	119.90
3	A1	958	A	N1-C6-N6	-12.29	111.23	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1328	A	C6-C5-N7	12.29	140.90	132.30
3	A1	337	G	C2-N3-C4	12.29	118.04	111.90
3	A1	26	A	N1-C6-N6	-12.28	111.23	118.60
3	A1	1445	U	C5-C6-N1	-12.29	116.56	122.70
25	BB	89	A	C6-N1-C2	-12.29	111.23	118.60
25	BB	416	U	C6-N1-C2	-12.28	113.63	121.00
25	BB	1302	A	O4'-C4'-C3'	12.29	116.28	104.00
25	BB	1745	A	C4-C5-C6	-12.28	110.86	117.00
37	BN	269	ARG	NE-CZ-NH2	12.28	126.44	120.30
25	BB	2022	U	C2-N3-C4	-12.28	119.63	127.00
25	BB	2674	G	N3-C4-C5	-12.28	122.46	128.60
43	BT	9	ARG	NE-CZ-NH2	12.28	126.44	120.30
25	BB	940	G	C8-N9-C4	-12.28	101.49	106.40
25	BB	2453	A	O4'-C1'-N9	-12.28	98.38	108.20
3	A1	169	C	O4'-C1'-N1	12.28	118.02	108.20
25	BB	1472	C	O4'-C1'-N1	12.28	118.02	108.20
25	BB	469	G	C1'-O4'-C4'	-12.28	100.08	109.90
3	A1	1368	A	C5-C6-N6	12.28	133.52	123.70
25	BB	1421	G	C6-C5-N7	12.28	137.77	130.40
25	BB	1859	U	C4-C5-C6	12.28	127.07	119.70
3	A1	1492	A	C4-C5-C6	-12.28	110.86	117.00
25	BB	2715	C	N3-C4-N4	-12.28	109.41	118.00
25	BB	503	A	N1-C6-N6	-12.27	111.24	118.60
25	BB	2547	A	N9-C4-C5	12.27	110.71	105.80
25	BB	2803	G	N1-C6-O6	-12.27	112.54	119.90
1	AP	23	A	C3'-C2'-C1'	12.27	111.31	101.50
25	BB	340	A	C6-C5-N7	12.27	140.89	132.30
3	A1	27	G	N1-C6-O6	-12.27	112.54	119.90
3	A1	1377	A	C5-C6-N6	12.27	133.51	123.70
25	BB	2351	G	N9-C4-C5	12.27	110.31	105.40
25	BB	2496	C	N3-C4-C5	12.27	126.81	121.90
3	A1	820	U	C5-C6-N1	-12.26	116.57	122.70
25	BB	315	G	N3-C2-N2	-12.26	111.31	119.90
25	BB	896	A	C5-C6-N1	12.26	123.83	117.70
25	BB	998	C	N3-C4-C5	12.26	126.81	121.90
25	BB	2580	U	C4-C5-C6	12.26	127.06	119.70
25	BB	2708	G	N1-C6-O6	-12.26	112.54	119.90
3	A1	1452	C	C5-C6-N1	-12.26	114.87	121.00
3	A1	480	U	N3-C4-C5	-12.26	107.25	114.60
25	BB	327	G	C4-C5-N7	-12.26	105.90	110.80
25	BB	602	A	N1-C6-N6	-12.26	111.25	118.60
25	BB	758	C	N3-C4-C5	12.26	126.80	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1093	G	N7-C8-N9	12.26	119.23	113.10
25	BB	1616	A	N1-C6-N6	-12.26	111.25	118.60
3	A1	485	U	C4-C5-C6	12.26	127.05	119.70
25	BB	321	U	C5-C6-N1	-12.26	116.57	122.70
25	BB	2467	C	N3-C4-C5	12.26	126.80	121.90
25	BB	2662	A	C5-C6-N1	12.26	123.83	117.70
25	BB	2869	G	N3-C4-C5	-12.26	122.47	128.60
24	BA	114	C	N3-C4-C5	12.25	126.80	121.90
3	A1	128	G	C4-C5-C6	-12.25	111.45	118.80
3	A1	209	U	N1-C2-O2	12.25	131.38	122.80
25	BB	2371	G	N3-C4-C5	-12.25	122.47	128.60
3	A1	874	G	N7-C8-N9	12.25	119.22	113.10
25	BB	330	A	C5-N7-C8	-12.25	97.78	103.90
38	BO	93	ARG	NE-CZ-NH2	-12.25	114.17	120.30
25	BB	389	G	C4-C5-N7	-12.25	105.90	110.80
25	BB	1022	G	C5-C6-N1	12.25	117.62	111.50
3	A1	1178	G	C8-N9-C4	-12.24	101.50	106.40
25	BB	457	A	C6-N1-C2	-12.24	111.25	118.60
25	BB	227	A	N9-C4-C5	12.24	110.70	105.80
25	BB	730	A	C4-C5-C6	-12.24	110.88	117.00
39	BP	68	PHE	CB-CG-CD1	-12.24	112.23	120.80
1	AA	35	A	N1-C2-N3	-12.24	123.18	129.30
25	BB	758	C	N3-C2-O2	-12.24	113.33	121.90
3	A1	979	C	N3-C2-O2	-12.24	113.33	121.90
25	BB	1444	G	C6-N1-C2	-12.24	117.76	125.10
25	BB	2225	A	C6-C5-N7	12.24	140.87	132.30
25	BB	253	C	C4-C5-C6	-12.23	111.28	117.40
25	BB	893	C	N3-C4-C5	12.23	126.79	121.90
25	BB	1966	A	N1-C6-N6	-12.23	111.26	118.60
2	AM	3	U	C2-N3-C4	-12.23	119.66	127.00
25	BB	345	A	C4-C5-C6	-12.23	110.88	117.00
25	BB	1368	G	N3-C4-N9	12.23	133.34	126.00
44	BU	43	ARG	NE-CZ-NH1	12.23	126.42	120.30
3	A1	98	A	N1-C6-N6	-12.23	111.26	118.60
1	AE	64	A	C4-C5-C6	-12.23	110.89	117.00
3	A1	1037	C	C2-N3-C4	-12.23	113.79	119.90
3	A1	1161	C	N3-C4-N4	-12.22	109.44	118.00
25	BB	1242	U	N3-C2-O2	-12.22	113.64	122.20
25	BB	2777	G	C5-C6-N1	12.22	117.61	111.50
25	BB	1566	A	N1-C2-N3	-12.22	123.19	129.30
3	A1	865	A	N1-C2-N3	-12.22	123.19	129.30
3	A1	872	A	C6-C5-N7	12.22	140.85	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1469	C	N3-C4-N4	-12.22	109.45	118.00
25	BB	1080	A	N1-C6-N6	-12.22	111.27	118.60
25	BB	1156	A	N7-C8-N9	-12.22	107.69	113.80
25	BB	2520	C	C2-N3-C4	-12.22	113.79	119.90
1	AP	40	C	C6-N1-C2	-12.21	115.42	120.30
3	A1	934	C	C5-C6-N1	-12.21	114.89	121.00
3	A1	1390	U	C1'-O4'-C4'	-12.21	100.13	109.90
25	BB	1133	A	N1-C2-N3	-12.21	123.19	129.30
25	BB	2286	G	N1-C6-O6	-12.21	112.57	119.90
1	AE	34	G	C8-N9-C4	12.21	111.28	106.40
25	BB	165	A	C4-C5-C6	-12.21	110.89	117.00
25	BB	352	A	C4-C5-C6	-12.21	110.89	117.00
25	BB	422	A	C4-C5-C6	-12.21	110.89	117.00
25	BB	567	U	N1-C2-N3	12.21	122.23	114.90
25	BB	2487	G	O4'-C1'-N9	12.21	117.97	108.20
25	BB	930	G	N3-C4-C5	-12.21	122.50	128.60
25	BB	1667	G	C4-C5-C6	-12.21	111.47	118.80
25	BB	978	G	C5-C6-O6	12.21	135.93	128.60
3	A1	1096	C	N3-C2-O2	-12.21	113.36	121.90
25	BB	730	A	C5-C6-N1	12.21	123.80	117.70
25	BB	1218	G	N9-C4-C5	12.21	110.28	105.40
25	BB	1890	A	C5-N7-C8	12.21	110.00	103.90
3	A1	1355	G	N1-C6-O6	-12.21	112.58	119.90
25	BB	1562	U	N3-C2-O2	-12.21	113.66	122.20
25	BB	1630	A	C2-N3-C4	12.21	116.70	110.60
25	BB	2855	C	O4'-C1'-N1	12.21	117.96	108.20
3	A1	1007	U	C5-C6-N1	-12.20	116.60	122.70
25	BB	1393	A	C5-N7-C8	-12.20	97.80	103.90
25	BB	1555	G	O4'-C1'-N9	12.20	117.96	108.20
3	A1	16	A	N1-C6-N6	-12.20	111.28	118.60
25	BB	223	A	N7-C8-N9	12.20	119.90	113.80
3	A1	297	G	C4'-C3'-C2'	-12.20	90.40	102.60
24	BA	31	C	N3-C4-N4	-12.20	109.46	118.00
25	BB	45	G	C4-C5-N7	12.20	115.68	110.80
3	A1	558	G	C8-N9-C4	12.20	111.28	106.40
3	A1	973	G	O4'-C1'-N9	12.20	117.96	108.20
3	A1	1361	G	N3-C4-C5	-12.19	122.50	128.60
25	BB	2168	G	C8-N9-C4	-12.20	101.52	106.40
25	BB	2778	A	C6-C5-N7	12.20	140.84	132.30
3	A1	520	A	N1-C6-N6	-12.19	111.28	118.60
3	A1	844	G	C5-C6-O6	12.19	135.91	128.60
25	BB	664	G	C4-C5-N7	-12.19	105.92	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	867	C	N3-C4-N4	-12.19	109.47	118.00
25	BB	886	A	N1-C6-N6	-12.19	111.28	118.60
25	BB	1598	A	C5-C6-N1	12.19	123.80	117.70
25	BB	277	G	C6-C5-N7	12.19	137.71	130.40
25	BB	891	G	C4-C5-N7	12.19	115.68	110.80
25	BB	825	A	N1-C6-N6	-12.19	111.29	118.60
25	BB	1932	A	C4-C5-C6	-12.19	110.91	117.00
3	A1	964	A	N1-C6-N6	-12.19	111.29	118.60
25	BB	834	G	N7-C8-N9	12.19	119.19	113.10
25	BB	1807	G	N7-C8-N9	12.18	119.19	113.10
3	A1	337	G	N3-C4-C5	-12.18	122.51	128.60
25	BB	1872	A	N1-C6-N6	-12.18	111.29	118.60
3	A1	561	U	N1-C2-N3	12.18	122.21	114.90
25	BB	277	G	C4-C5-N7	-12.18	105.93	110.80
25	BB	696	G	O4'-C4'-C3'	12.18	116.17	104.00
25	BB	1901	A	C5-C6-N1	12.18	123.79	117.70
25	BB	1976	U	C4-C5-C6	12.18	127.00	119.70
25	BB	332	A	C8-N9-C4	-12.17	100.93	105.80
25	BB	1983	G	N3-C4-N9	12.17	133.31	126.00
25	BB	836	G	C5-C6-N1	12.17	117.59	111.50
25	BB	2023	C	C5-C6-N1	-12.17	114.91	121.00
25	BB	2322	A	C8-N9-C4	12.17	110.67	105.80
3	A1	586	C	N3-C2-O2	-12.17	113.38	121.90
3	A1	810	C	N3-C2-O2	-12.17	113.38	121.90
3	A1	1462	C	N3-C4-N4	-12.17	109.48	118.00
25	BB	1576	U	C5-C6-N1	-12.17	116.61	122.70
25	BB	2458	G	C3'-C2'-C1'	12.17	111.24	101.50
3	A1	162	A	C4-C5-C6	-12.17	110.92	117.00
3	A1	1426	G	C8-N9-C4	12.17	111.27	106.40
3	A1	226	G	C5-C6-O6	12.17	135.90	128.60
3	A1	453	G	N3-C2-N2	-12.17	111.38	119.90
3	A1	996	A	C5-C6-N1	12.17	123.78	117.70
25	BB	2714	G	C5-C6-N1	12.17	117.58	111.50
3	A1	533	A	N1-C6-N6	-12.16	111.30	118.60
3	A1	754	C	C2-N3-C4	-12.16	113.82	119.90
3	A1	1188	A	N1-C6-N6	-12.16	111.30	118.60
25	BB	950	G	C8-N9-C4	-12.16	101.53	106.40
25	BB	950	G	N3-C4-C5	-12.16	122.52	128.60
25	BB	1717	A	C5-C6-N1	12.16	123.78	117.70
25	BB	1857	G	C6-C5-N7	12.16	137.70	130.40
25	BB	2880	C	N1-C2-O2	12.16	126.20	118.90
25	BB	1018	U	O4'-C1'-N1	12.16	117.93	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2374	C	N3-C2-O2	-12.16	113.39	121.90
1	AA	50	U	C2-N3-C4	-12.16	119.70	127.00
25	BB	879	G	C5-C6-N1	12.16	117.58	111.50
25	BB	64	A	C6-N1-C2	-12.16	111.31	118.60
25	BB	898	C	N3-C4-N4	-12.16	109.49	118.00
25	BB	2173	A	N7-C8-N9	12.16	119.88	113.80
25	BB	645	C	N3-C4-C5	12.16	126.76	121.90
25	BB	1290	C	C5-C6-N1	-12.16	114.92	121.00
3	A1	1264	U	N3-C2-O2	-12.15	113.69	122.20
25	BB	12	U	N3-C2-O2	-12.15	113.69	122.20
25	BB	1502	A	C6-N1-C2	-12.15	111.31	118.60
25	BB	64	A	N9-C4-C5	12.15	110.66	105.80
25	BB	504	A	C4-C5-C6	-12.15	110.92	117.00
1	AP	62	A	C2-N3-C4	12.15	116.67	110.60
3	A1	698	G	N1-C6-O6	-12.15	112.61	119.90
25	BB	2671	G	N1-C6-O6	-12.15	112.61	119.90
3	A1	824	G	N3-C4-C5	-12.15	122.53	128.60
3	A1	1033	G	C8-N9-C4	-12.15	101.54	106.40
25	BB	1990	C	N3-C4-C5	12.15	126.76	121.90
25	BB	681	G	C6-C5-N7	12.15	137.69	130.40
25	BB	1300	G	C5-C6-N1	12.15	117.57	111.50
3	A1	584	G	N1-C2-N3	12.14	131.19	123.90
25	BB	782	A	C5-C6-N1	12.14	123.77	117.70
25	BB	1347	A	C5-C6-N1	12.14	123.77	117.70
25	BB	1445	G	N1-C6-O6	-12.14	112.62	119.90
25	BB	1673	G	C8-N9-C4	-12.14	101.54	106.40
3	A1	220	G	C5-C6-O6	12.14	135.88	128.60
25	BB	1128	G	C6-N1-C2	-12.14	117.82	125.10
25	BB	273	G	C6-N1-C2	-12.14	117.82	125.10
25	BB	2526	G	N9-C4-C5	12.14	110.25	105.40
25	BB	1938	A	C6-N1-C2	-12.13	111.32	118.60
25	BB	2119	A	C5-C6-N1	12.13	123.77	117.70
3	A1	240	G	C5-C6-O6	12.13	135.88	128.60
3	A1	897	C	N3-C2-O2	-12.13	113.41	121.90
25	BB	611	C	N3-C2-O2	-12.13	113.41	121.90
1	AP	18	G	C2-N3-C4	-12.13	105.84	111.90
3	A1	33	A	N1-C6-N6	-12.13	111.32	118.60
9	AH	83	ARG	NE-CZ-NH2	-12.13	114.24	120.30
8	AG	12	ARG	NE-CZ-NH2	-12.12	114.24	120.30
25	BB	1870	C	N3-C2-O2	-12.12	113.41	121.90
25	BB	2611	C	N1-C2-O2	12.12	126.17	118.90
1	AE	18	G	O4'-C1'-N9	12.12	117.90	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1858	A	N1-C6-N6	-12.12	111.33	118.60
25	BB	2345	G	C2-N3-C4	12.12	117.96	111.90
3	A1	715	A	C2-N3-C4	12.12	116.66	110.60
25	BB	2566	A	C4-C5-C6	-12.12	110.94	117.00
25	BB	1808	A	N1-C2-N3	-12.12	123.24	129.30
3	A1	941	G	C5-C6-N1	12.12	117.56	111.50
3	A1	1338	G	N1-C6-O6	-12.11	112.63	119.90
25	BB	2188	U	O4'-C1'-N1	12.11	117.89	108.20
25	BB	28	A	C5-C6-N6	12.11	133.39	123.70
25	BB	2591	C	N3-C4-C5	12.11	126.75	121.90
1	AE	69	U	N3-C4-C5	12.11	121.86	114.60
3	A1	1447	A	C4-C5-C6	-12.11	110.94	117.00
25	BB	783	A	C5-C6-N1	12.11	123.75	117.70
25	BB	1399	C	N3-C4-C5	-12.11	117.06	121.90
3	A1	1177	G	N9-C4-C5	12.11	110.24	105.40
3	A1	1333	A	C5-C6-N6	12.11	133.38	123.70
24	BA	39	A	C5-C6-N1	12.11	123.75	117.70
25	BB	1240	U	C4'-C3'-C2'	-12.10	90.50	102.60
25	BB	1809	A	C4-C5-C6	-12.10	110.95	117.00
25	BB	1838	C	C6-N1-C2	-12.10	115.46	120.30
25	BB	1903	G	C6-C5-N7	12.10	137.66	130.40
25	BB	1365	A	C4-C5-C6	-12.10	110.95	117.00
3	A1	263	A	N1-C2-N3	12.10	135.35	129.30
3	A1	846	G	C4-C5-C6	-12.10	111.54	118.80
24	BA	15	A	C6-N1-C2	-12.09	111.34	118.60
25	BB	1648	U	C4-C5-C6	12.09	126.96	119.70
25	BB	1144	A	C5-C6-N1	12.09	123.75	117.70
25	BB	2311	A	C5-C6-N1	12.09	123.75	117.70
25	BB	2117	A	C4-C5-C6	-12.09	110.95	117.00
1	AA	17	U	C4-C5-C6	12.09	126.95	119.70
3	A1	1110	A	C6-C5-N7	12.09	140.76	132.30
25	BB	2378	A	N1-C6-N6	-12.09	111.34	118.60
25	BB	1695	G	N7-C8-N9	12.09	119.14	113.10
25	BB	2491	U	C4-C5-C6	12.09	126.95	119.70
25	BB	1728	C	C5-C4-N4	12.09	128.66	120.20
25	BB	2363	G	C4-C5-N7	-12.09	105.97	110.80
3	A1	1295	U	N1-C2-N3	12.09	122.15	114.90
24	BA	13	G	C8-N9-C4	12.09	111.23	106.40
25	BB	322	A	C4-C5-C6	-12.09	110.96	117.00
25	BB	1170	C	N3-C2-O2	-12.09	113.44	121.90
12	AK	69	TYR	CB-CG-CD2	12.08	128.25	121.00
25	BB	1321	A	C5-C6-N1	12.08	123.74	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1617	C	C5-C6-N1	-12.08	114.96	121.00
25	BB	2039	U	C5-C6-N1	-12.08	116.66	122.70
25	BB	2070	A	C5-C6-N1	12.08	123.74	117.70
25	BB	2371	G	N9-C4-C5	12.08	110.23	105.40
25	BB	2635	A	C4-C5-C6	-12.08	110.96	117.00
25	BB	2709	G	C6-N1-C2	-12.08	117.85	125.10
25	BB	264	C	C2-N3-C4	-12.08	113.86	119.90
3	A1	1360	A	C2-N3-C4	12.08	116.64	110.60
25	BB	1246	A	N1-C6-N6	-12.08	111.35	118.60
25	BB	1386	C	N3-C4-C5	12.08	126.73	121.90
33	BJ	5	ARG	NE-CZ-NH2	12.08	126.34	120.30
3	A1	877	G	C6-N1-C2	-12.07	117.86	125.10
25	BB	1939	U	N3-C2-O2	-12.07	113.75	122.20
25	BB	530	G	C2-N3-C4	12.07	117.94	111.90
25	BB	2587	A	C5-C6-N6	12.07	133.36	123.70
25	BB	269	C	N3-C4-C5	12.07	126.73	121.90
25	BB	1264	A	C4-C5-C6	-12.07	110.96	117.00
1	AA	1	G	P-O3'-C3'	12.07	134.18	119.70
6	AD	49	ARG	NE-CZ-NH1	12.07	126.33	120.30
25	BB	1802	A	N1-C2-N3	-12.07	123.27	129.30
23	AX	45	ARG	NE-CZ-NH1	12.07	126.33	120.30
25	BB	663	G	N1-C6-O6	-12.07	112.66	119.90
1	AE	29	A	N1-C6-N6	-12.06	111.36	118.60
25	BB	2104	C	N3-C2-O2	-12.06	113.45	121.90
25	BB	2219	U	C4-C5-C6	12.06	126.94	119.70
25	BB	2344	U	N3-C2-O2	-12.06	113.76	122.20
25	BB	2417	C	C6-N1-C2	-12.06	115.47	120.30
25	BB	1301	A	N1-C2-N3	-12.06	123.27	129.30
25	BB	2300	C	N1-C2-O2	12.06	126.14	118.90
1	AP	64	A	N7-C8-N9	12.06	119.83	113.80
3	A1	335	C	C2-N3-C4	-12.06	113.87	119.90
3	A1	676	A	C5-C6-N1	12.06	123.73	117.70
3	A1	1408	A	C6-C5-N7	12.06	140.74	132.30
25	BB	1628	G	C4-C5-N7	-12.06	105.98	110.80
25	BB	2288	A	N1-C6-N6	-12.06	111.37	118.60
3	A1	314	C	C6-N1-C2	-12.05	115.48	120.30
3	A1	496	A	N1-C2-N3	-12.06	123.27	129.30
13	AL	77	ARG	NE-CZ-NH1	12.05	126.33	120.30
25	BB	84	A	N9-C4-C5	12.06	110.62	105.80
25	BB	745	G	N9-C4-C5	12.05	110.22	105.40
25	BB	2052	A	C2-N3-C4	12.05	116.63	110.60
25	BB	2240	U	C5-C6-N1	-12.05	116.67	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2628	C	N3-C4-C5	12.05	126.72	121.90
25	BB	1493	C	N3-C4-C5	12.05	126.72	121.90
25	BB	2365	G	C5-C6-N1	-12.05	105.47	111.50
3	A1	146	G	N1-C6-O6	-12.05	112.67	119.90
25	BB	2296	U	C4-C5-C6	12.05	126.93	119.70
3	A1	475	C	N3-C4-N4	-12.05	109.57	118.00
3	A1	794	A	C4-C5-C6	-12.05	110.98	117.00
25	BB	781	A	N9-C4-C5	-12.05	100.98	105.80
25	BB	954	G	C5-C6-N1	12.05	117.52	111.50
25	BB	1515	A	C5-C6-N1	12.05	123.72	117.70
25	BB	555	G	C4-C5-N7	-12.05	105.98	110.80
25	BB	2211	A	N1-C6-N6	-12.04	111.37	118.60
25	BB	2574	G	O4'-C1'-N9	12.05	117.84	108.20
1	AP	2	C	N3-C2-O2	-12.04	113.47	121.90
25	BB	269	C	C3'-C2'-C1'	12.04	111.13	101.50
25	BB	279	A	C5-C6-N1	12.04	123.72	117.70
25	BB	1025	G	C5-C6-N1	12.04	117.52	111.50
25	BB	2717	C	N3-C2-O2	-12.04	113.47	121.90
25	BB	484	C	C2-N3-C4	-12.04	113.88	119.90
3	A1	711	G	C2-N3-C4	12.04	117.92	111.90
25	BB	3	U	O4'-C1'-N1	12.04	117.83	108.20
3	A1	1311	A	C5-C6-N1	12.04	123.72	117.70
25	BB	472	A	C6-C5-N7	12.04	140.72	132.30
25	BB	2735	G	C2-N3-C4	12.03	117.92	111.90
3	A1	1486	G	C8-N9-C4	-12.03	101.59	106.40
3	A1	144	G	N1-C6-O6	-12.03	112.68	119.90
3	A1	794	A	C5-N7-C8	-12.03	97.89	103.90
25	BB	1387	A	C4-C5-C6	-12.03	110.98	117.00
25	BB	2221	G	N3-C4-C5	-12.03	122.58	128.60
53	B4	68	ARG	NE-CZ-NH2	-12.03	114.28	120.30
1	AE	45	G	N1-C6-O6	-12.03	112.68	119.90
25	BB	1084	A	C4-C5-C6	-12.03	110.99	117.00
24	BA	19	C	N3-C2-O2	-12.02	113.48	121.90
25	BB	2822	G	N1-C2-N3	12.02	131.12	123.90
25	BB	428	A	C5-C6-N1	12.02	123.71	117.70
25	BB	958	U	C1'-O4'-C4'	-12.02	100.28	109.90
37	BN	213	ARG	NE-CZ-NH1	12.02	126.31	120.30
1	AA	9	A	N1-C6-N6	-12.02	111.39	118.60
25	BB	2258	C	N3-C2-O2	-12.02	113.49	121.90
25	BB	2770	G	O4'-C1'-N9	12.02	117.81	108.20
25	BB	2774	C	C2-N3-C4	-12.02	113.89	119.90
25	BB	706	A	N1-C6-N6	-12.02	111.39	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1842	G	C5-C6-N1	12.02	117.51	111.50
25	BB	2164	C	C2-N3-C4	-12.02	113.89	119.90
25	BB	996	A	C8-N9-C4	12.01	110.61	105.80
25	BB	1013	C	C5-C6-N1	-12.01	114.99	121.00
25	BB	1149	G	N1-C2-N2	-12.01	105.39	116.20
25	BB	2717	C	N3-C4-C5	12.01	126.71	121.90
3	A1	351	G	N9-C4-C5	12.01	110.20	105.40
25	BB	154	U	C1'-O4'-C4'	-12.01	100.29	109.90
25	BB	1885	A	N1-C6-N6	-12.01	111.39	118.60
25	BB	2531	A	N1-C6-N6	-12.01	111.39	118.60
3	A1	1388	C	C6-N1-C2	-12.01	115.50	120.30
25	BB	2879	A	N9-C4-C5	-12.01	101.00	105.80
30	BG	64	ARG	NE-CZ-NH1	12.01	126.30	120.30
3	A1	205	A	C4-C5-C6	-12.01	111.00	117.00
3	A1	207	C	N3-C2-O2	-12.01	113.50	121.90
25	BB	539	G	N3-C4-C5	-12.00	122.60	128.60
25	BB	851	C	N3-C2-O2	-12.00	113.50	121.90
25	BB	1674	G	N3-C4-C5	-12.00	122.60	128.60
25	BB	1900	A	C5-N7-C8	-12.00	97.90	103.90
2	AM	18	U	C5-C6-N1	-12.00	116.70	122.70
25	BB	1893	C	C6-N1-C2	-12.00	115.50	120.30
25	BB	2502	G	C4-C5-N7	-12.00	106.00	110.80
3	A1	349	A	C5-C6-N1	11.99	123.70	117.70
3	A1	1144	G	O4'-C1'-N9	11.99	117.79	108.20
3	A1	1160	G	O4'-C4'-C3'	11.99	115.99	104.00
25	BB	87	U	N1-C2-N3	11.99	122.10	114.90
25	BB	262	A	N1-C2-N3	-11.99	123.30	129.30
25	BB	1659	G	C2-N3-C4	11.99	117.90	111.90
25	BB	1924	C	N1-C2-N3	11.99	127.60	119.20
3	A1	501	C	C2-N3-C4	-11.99	113.91	119.90
24	BA	101	A	C5-C6-N1	11.99	123.69	117.70
25	BB	2439	A	N1-C6-N6	-11.99	111.41	118.60
25	BB	2461	A	C6-C5-N7	11.99	140.69	132.30
25	BB	2136	G	N3-C2-N2	-11.99	111.51	119.90
31	BH	33	ARG	NE-CZ-NH2	11.99	126.29	120.30
3	A1	139	A	N1-C6-N6	-11.99	111.41	118.60
3	A1	968	A	C6-C5-N7	11.99	140.69	132.30
25	BB	79	C	N3-C4-N4	-11.99	109.61	118.00
25	BB	2270	A	N1-C6-N6	-11.99	111.41	118.60
25	BB	528	A	C4-C5-C6	-11.98	111.01	117.00
25	BB	2538	C	N3-C4-N4	-11.98	109.61	118.00
25	BB	2901	C	C6-N1-C2	11.98	125.09	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	272	C	N3-C4-N4	-11.98	109.61	118.00
3	A1	513	C	N3-C4-C5	11.98	126.69	121.90
3	A1	784	A	C6-N1-C2	-11.98	111.41	118.60
25	BB	599	A	C5-C6-N6	11.98	133.29	123.70
3	A1	795	C	O4'-C1'-N1	11.98	117.78	108.20
25	BB	1936	A	C5-C6-N1	11.98	123.69	117.70
25	BB	572	A	C5-C6-N1	11.98	123.69	117.70
25	BB	2051	A	C5-C6-N1	11.98	123.69	117.70
3	A1	388	G	N3-C4-C5	-11.98	122.61	128.60
3	A1	1206	G	C5-C6-O6	11.98	135.79	128.60
25	BB	632	A	O4'-C1'-N9	11.98	117.78	108.20
25	BB	2055	C	C2-N3-C4	-11.98	113.91	119.90
3	A1	14	U	C5-C6-N1	-11.98	116.71	122.70
3	A1	299	G	C8-N9-C4	-11.98	101.61	106.40
25	BB	311	A	C5-C6-N6	11.98	133.28	123.70
25	BB	497	A	C2-N3-C4	11.98	116.59	110.60
3	A1	480	U	C5-C6-N1	-11.97	116.71	122.70
25	BB	118	A	C5-C6-N6	11.97	133.28	123.70
25	BB	1490	A	N1-C2-N3	-11.97	123.31	129.30
25	BB	1895	C	O4'-C1'-N1	-11.97	98.62	108.20
3	A1	185	U	C5-C6-N1	-11.97	116.72	122.70
25	BB	1088	A	N1-C6-N6	-11.97	111.42	118.60
25	BB	2646	C	C6-N1-C2	-11.96	115.51	120.30
25	BB	2741	A	C4-C5-C6	-11.96	111.02	117.00
25	BB	2824	C	N3-C4-C5	11.97	126.69	121.90
25	BB	1239	G	C8-N9-C4	-11.96	101.61	106.40
25	BB	2234	G	C6-C5-N7	11.96	137.58	130.40
3	A1	366	A	C5-C6-N1	11.96	123.68	117.70
3	A1	1064	G	N9-C4-C5	11.96	110.19	105.40
25	BB	2154	A	C5-C6-N1	11.96	123.68	117.70
25	BB	2447	G	N1-C2-N3	11.96	131.08	123.90
25	BB	2737	G	N3-C2-N2	-11.96	111.53	119.90
2	AM	9	U	N3-C2-O2	-11.96	113.83	122.20
3	A1	1302	C	N3-C4-C5	11.96	126.68	121.90
25	BB	2508	G	C8-N9-C4	-11.96	101.62	106.40
3	A1	1319	A	C4-C5-C6	-11.96	111.02	117.00
25	BB	2049	G	C4-C5-N7	11.96	115.58	110.80
25	BB	2356	U	N3-C2-O2	-11.96	113.83	122.20
3	A1	504	C	N3-C2-O2	-11.95	113.53	121.90
25	BB	333	G	N9-C4-C5	-11.95	100.62	105.40
25	BB	916	G	C4-C5-N7	-11.95	106.02	110.80
25	BB	1136	G	C3'-C2'-C1'	11.95	111.06	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2779	U	C3'-C2'-C1'	11.95	111.06	101.50
25	BB	2198	A	C4-C5-C6	-11.95	111.03	117.00
3	A1	1208	C	N3-C2-O2	-11.95	113.54	121.90
25	BB	1262	A	N1-C6-N6	-11.95	111.43	118.60
25	BB	1821	A	C4-C5-C6	-11.95	111.03	117.00
32	BI	108	ARG	NE-CZ-NH1	11.95	126.27	120.30
3	A1	857	C	N3-C2-O2	-11.94	113.54	121.90
25	BB	302	C	O4'-C1'-N1	11.94	117.75	108.20
1	AE	59	U	C4-C5-C6	11.94	126.86	119.70
25	BB	2528	U	N3-C2-O2	-11.94	113.84	122.20
31	BH	7	ARG	NH1-CZ-NH2	-11.94	106.27	119.40
54	B5	102	ARG	NE-CZ-NH1	11.94	126.27	120.30
25	BB	283	G	N1-C6-O6	-11.94	112.74	119.90
25	BB	435	C	C5'-C4'-O4'	11.94	123.42	109.10
25	BB	1084	A	N7-C8-N9	11.94	119.77	113.80
25	BB	1679	A	N1-C6-N6	-11.94	111.44	118.60
25	BB	1826	G	N1-C6-O6	-11.94	112.74	119.90
25	BB	2714	G	C1'-O4'-C4'	-11.94	100.35	109.90
3	A1	1123	U	N3-C2-O2	-11.93	113.85	122.20
25	BB	170	U	O4'-C1'-N1	11.93	117.75	108.20
3	A1	805	C	N3-C4-N4	-11.93	109.65	118.00
3	A1	1367	C	N3-C2-O2	-11.93	113.55	121.90
25	BB	502	A	C4-C5-N7	11.93	116.67	110.70
25	BB	681	G	C8-N9-C4	-11.93	101.63	106.40
25	BB	963	U	N3-C2-O2	-11.93	113.85	122.20
25	BB	2620	C	N3-C4-C5	11.93	126.67	121.90
25	BB	2675	A	O4'-C1'-N9	11.93	117.75	108.20
3	A1	55	A	N1-C6-N6	-11.93	111.44	118.60
25	BB	1972	G	C5-C6-O6	11.93	135.76	128.60
1	AE	62	A	C5-C6-N1	11.93	123.66	117.70
3	A1	159	G	C5-N7-C8	-11.93	98.33	104.30
25	BB	2669	G	N1-C6-O6	-11.93	112.74	119.90
3	A1	1530	G	C2-N3-C4	-11.93	105.94	111.90
3	A1	291	U	C5-C6-N1	-11.93	116.74	122.70
3	A1	797	C	N3-C4-C5	11.93	126.67	121.90
3	A1	1111	A	N1-C6-N6	-11.93	111.44	118.60
25	BB	572	A	C4-C5-C6	-11.93	111.04	117.00
25	BB	1960	A	C2-N3-C4	11.93	116.56	110.60
25	BB	1966	A	N9-C4-C5	11.93	110.57	105.80
25	BB	2811	G	C5-N7-C8	-11.93	98.34	104.30
3	A1	635	A	N7-C8-N9	11.92	119.76	113.80
25	BB	791	C	C4-C5-C6	11.92	123.36	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2777	G	N1-C6-O6	-11.92	112.75	119.90
3	A1	579	A	N1-C6-N6	-11.92	111.45	118.60
3	A1	1032	G	C5-C6-O6	11.92	135.75	128.60
25	BB	1967	C	N3-C4-N4	-11.92	109.66	118.00
3	A1	29	U	O4'-C1'-N1	11.92	117.73	108.20
25	BB	1676	A	C4-C5-C6	-11.92	111.04	117.00
25	BB	563	A	N1-C6-N6	-11.92	111.45	118.60
26	BC	19	ARG	NE-CZ-NH2	11.92	126.26	120.30
25	BB	613	A	N1-C6-N6	-11.91	111.45	118.60
25	BB	660	C	O4'-C1'-N1	11.91	117.73	108.20
25	BB	2456	C	C2-N3-C4	-11.91	113.94	119.90
25	BB	911	A	C4-C5-C6	-11.91	111.04	117.00
25	BB	2462	C	N1-C2-O2	11.91	126.05	118.90
3	A1	347	G	N7-C8-N9	11.91	119.06	113.10
3	A1	1531	A	O4'-C1'-N9	11.91	117.73	108.20
25	BB	707	G	C5-C6-N1	11.91	117.45	111.50
25	BB	824	U	N3-C2-O2	-11.91	113.86	122.20
25	BB	702	U	C5-C6-N1	-11.91	116.75	122.70
40	BQ	52	ARG	NE-CZ-NH2	-11.91	114.35	120.30
3	A1	1180	A	C4-C5-C6	-11.90	111.05	117.00
20	AU	9	ARG	NE-CZ-NH1	11.90	126.25	120.30
25	BB	1188	U	C2-N3-C4	-11.90	119.86	127.00
25	BB	164	C	O4'-C1'-N1	11.90	117.72	108.20
25	BB	518	G	C5-N7-C8	-11.90	98.35	104.30
25	BB	588	U	C5-C6-N1	-11.90	116.75	122.70
3	A1	753	A	C6-C5-N7	11.90	140.63	132.30
3	A1	935	A	N1-C6-N6	-11.90	111.46	118.60
25	BB	71	A	C5-C6-N1	11.90	123.65	117.70
25	BB	96	C	C1'-O4'-C4'	-11.90	100.38	109.90
25	BB	694	U	N3-C4-C5	-11.89	107.46	114.60
3	A1	306	A	C4-C5-C6	-11.89	111.05	117.00
3	A1	1311	A	C5-N7-C8	-11.89	97.95	103.90
3	A1	1409	C	N3-C4-N4	-11.89	109.67	118.00
25	BB	1056	G	C5-C6-N1	11.89	117.45	111.50
25	BB	2315	G	C5-C6-O6	11.89	135.74	128.60
3	A1	510	A	N7-C8-N9	11.89	119.75	113.80
25	BB	581	C	C3'-C2'-C1'	11.89	111.01	101.50
3	A1	1395	C	C2-N3-C4	-11.89	113.95	119.90
3	A1	279	A	C5-C6-N1	11.89	123.64	117.70
3	A1	821	G	O4'-C1'-N9	11.89	117.71	108.20
3	A1	1430	A	C5-C6-N1	11.89	123.64	117.70
24	BA	33	G	N9-C4-C5	-11.89	100.64	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1780	A	O4'-C1'-N9	11.89	117.71	108.20
25	BB	2176	A	N1-C6-N6	-11.89	111.47	118.60
1	AP	66	A	N1-C2-N3	-11.88	123.36	129.30
25	BB	1654	A	O4'-C4'-C3'	11.89	115.89	104.00
25	BB	2368	C	N3-C4-N4	-11.89	109.68	118.00
3	A1	380	G	N1-C6-O6	-11.88	112.77	119.90
25	BB	637	A	O4'-C4'-C3'	11.88	115.88	104.00
25	BB	986	C	N3-C4-C5	11.88	126.65	121.90
25	BB	585	G	C1'-O4'-C4'	-11.88	100.39	109.90
25	BB	1514	G	C5-C6-O6	11.88	135.73	128.60
3	A1	822	U	N3-C2-O2	-11.88	113.88	122.20
24	BA	81	G	N7-C8-N9	11.88	119.04	113.10
25	BB	633	A	C5-C6-N1	11.88	123.64	117.70
25	BB	1755	A	C5-C6-N1	11.88	123.64	117.70
25	BB	386	G	N3-C4-C5	-11.88	122.66	128.60
3	A1	1155	A	C8-N9-C4	-11.88	101.05	105.80
16	AQ	38	GLU	OE1-CD-OE2	-11.88	109.05	123.30
24	BA	41	G	O4'-C1'-N9	11.88	117.70	108.20
25	BB	32	C	N3-C2-O2	-11.87	113.59	121.90
25	BB	681	G	C6-N1-C2	-11.87	117.97	125.10
3	A1	477	C	N3-C2-O2	-11.87	113.59	121.90
3	A1	833	G	N3-C4-C5	-11.87	122.66	128.60
3	A1	1409	C	C5-C6-N1	-11.87	115.06	121.00
24	BA	24	G	C8-N9-C4	-11.87	101.65	106.40
25	BB	2429	G	C4-C5-N7	-11.87	106.05	110.80
25	BB	152	A	C5-C6-N1	11.87	123.64	117.70
25	BB	2009	A	N1-C6-N6	-11.87	111.48	118.60
25	BB	2255	G	C4-C5-N7	-11.87	106.05	110.80
3	A1	554	A	C5-C6-N1	11.87	123.63	117.70
25	BB	729	G	O4'-C1'-N9	11.87	117.69	108.20
25	BB	1020	A	C6-C5-N7	11.87	140.61	132.30
25	BB	1702	G	N7-C8-N9	11.87	119.03	113.10
25	BB	1960	A	N7-C8-N9	11.87	119.73	113.80
25	BB	2735	G	N7-C8-N9	11.87	119.03	113.10
25	BB	2641	G	N3-C2-N2	-11.87	111.59	119.90
25	BB	1144	A	N1-C6-N6	-11.86	111.48	118.60
25	BB	491	G	C5-C6-N1	11.86	117.43	111.50
3	A1	1264	U	N1-C2-N3	11.86	122.02	114.90
4	AB	107	ARG	NE-CZ-NH2	-11.86	114.37	120.30
3	A1	1446	A	C4-C5-C6	-11.86	111.07	117.00
25	BB	875	G	O4'-C1'-N9	11.86	117.69	108.20
25	BB	2207	C	N3-C2-O2	-11.86	113.60	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	334	C	C3'-C2'-C1'	11.86	110.99	101.50
16	AQ	11	PHE	CB-CG-CD2	11.86	129.10	120.80
25	BB	129	C	N3-C4-C5	11.86	126.64	121.90
3	A1	454	G	N3-C2-N2	-11.86	111.60	119.90
24	BA	108	A	N9-C4-C5	11.86	110.54	105.80
31	BH	81	ARG	NE-CZ-NH1	11.86	126.23	120.30
25	BB	851	C	C2-N3-C4	-11.85	113.97	119.90
25	BB	2734	A	N1-C6-N6	-11.85	111.49	118.60
3	A1	1369	C	N3-C2-O2	-11.85	113.61	121.90
25	BB	1337	G	C4-C5-N7	-11.85	106.06	110.80
25	BB	2670	A	C4-C5-C6	-11.85	111.07	117.00
3	A1	813	U	C5-C4-O4	-11.85	118.79	125.90
25	BB	2235	G	C6-C5-N7	11.85	137.51	130.40
25	BB	2775	G	N3-C2-N2	-11.85	111.61	119.90
49	BZ	49	ARG	NE-CZ-NH1	11.85	126.22	120.30
25	BB	1723	G	C5-C6-N1	11.85	117.42	111.50
1	AE	73	A	C5-C6-N1	11.85	123.62	117.70
25	BB	1754	A	O4'-C1'-N9	11.85	117.68	108.20
3	A1	240	G	C5-N7-C8	-11.84	98.38	104.30
3	A1	405	U	C5-C4-O4	11.84	133.00	125.90
3	A1	498	A	C5-C6-N1	11.84	123.62	117.70
25	BB	164	C	C2-N3-C4	-11.84	113.98	119.90
25	BB	1098	A	N1-C6-N6	-11.84	111.50	118.60
3	A1	851	G	N1-C6-O6	-11.84	112.80	119.90
3	A1	1295	U	C5-C4-O4	11.84	133.00	125.90
25	BB	1353	A	C5-C6-N1	11.84	123.62	117.70
3	A1	1442	G	N1-C6-O6	-11.84	112.80	119.90
25	BB	428	A	N1-C6-N6	-11.84	111.50	118.60
25	BB	1590	A	O4'-C1'-N9	11.84	117.67	108.20
25	BB	2499	C	C6-N1-C2	-11.84	115.56	120.30
3	A1	483	C	O4'-C1'-N1	11.84	117.67	108.20
3	A1	548	G	C5-N7-C8	-11.83	98.38	104.30
25	BB	1039	A	C5-C6-N1	11.83	123.62	117.70
25	BB	2745	C	N3-C2-O2	-11.83	113.62	121.90
25	BB	121	G	O4'-C4'-C3'	11.83	115.83	104.00
25	BB	764	A	C6-C5-N7	11.83	140.58	132.30
3	A1	344	A	C2-N3-C4	11.83	116.52	110.60
3	A1	252	U	C5-C4-O4	11.83	133.00	125.90
25	BB	1306	C	C5-C4-N4	11.83	128.48	120.20
25	BB	2280	G	N1-C6-O6	-11.83	112.80	119.90
25	BB	961	C	N3-C2-O2	-11.83	113.62	121.90
25	BB	1222	U	C5-C6-N1	-11.83	116.79	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	713	G	C8-N9-C4	11.82	111.13	106.40
16	AQ	20	ARG	NE-CZ-NH2	11.82	126.21	120.30
25	BB	2014	A	C5-C6-N1	11.82	123.61	117.70
25	BB	1206	G	C5-C6-O6	11.82	135.69	128.60
24	BA	41	G	N7-C8-N9	11.82	119.01	113.10
25	BB	110	G	C8-N9-C4	-11.82	101.67	106.40
25	BB	524	G	O4'-C1'-N9	11.82	117.66	108.20
3	A1	266	G	C5-C6-N1	11.82	117.41	111.50
3	A1	509	A	C4-C5-C6	-11.82	111.09	117.00
3	A1	1142	G	N3-C4-C5	-11.82	122.69	128.60
25	BB	873	C	N1-C2-O2	11.82	125.99	118.90
25	BB	1927	A	N1-C2-N3	-11.82	123.39	129.30
3	A1	836	G	N7-C8-N9	11.81	119.01	113.10
25	BB	1733	G	C8-N9-C4	11.81	111.13	106.40
2	AM	4	U	C5-C6-N1	-11.81	116.79	122.70
25	BB	2230	G	C5-C6-N1	11.81	117.41	111.50
3	A1	854	U	C6-N1-C2	-11.81	113.91	121.00
25	BB	1186	G	C6-C5-N7	11.81	137.49	130.40
25	BB	2295	C	C6-N1-C2	-11.81	115.58	120.30
27	BD	49	ARG	NE-CZ-NH1	11.81	126.20	120.30
3	A1	1320	C	C6-N1-C2	-11.81	115.58	120.30
3	A1	624	C	N3-C2-O2	-11.80	113.64	121.90
3	A1	1182	G	C2-N3-C4	11.80	117.80	111.90
25	BB	632	A	N1-C6-N6	-11.80	111.52	118.60
25	BB	730	A	C2-N3-C4	11.80	116.50	110.60
25	BB	193	U	C5-C6-N1	-11.80	116.80	122.70
25	BB	843	G	C4-C5-N7	-11.80	106.08	110.80
3	A1	637	C	N3-C4-N4	-11.80	109.74	118.00
25	BB	1212	G	C8-N9-C4	-11.80	101.68	106.40
25	BB	1331	G	N9-C4-C5	11.80	110.12	105.40
46	BW	41	ARG	NE-CZ-NH1	11.80	126.20	120.30
3	A1	373	A	C4-C5-C6	-11.80	111.10	117.00
3	A1	897	C	N3-C4-C5	11.79	126.62	121.90
3	A1	1050	G	C5-N7-C8	-11.79	98.40	104.30
25	BB	1483	G	N3-C4-C5	-11.79	122.70	128.60
3	A1	833	G	C5-C6-N1	11.79	117.39	111.50
25	BB	1402	U	O4'-C1'-N1	11.79	117.63	108.20
25	BB	1735	A	N1-C6-N6	-11.79	111.52	118.60
3	A1	1370	G	N1-C6-O6	-11.79	112.83	119.90
25	BB	298	G	C5-C6-O6	-11.79	121.53	128.60
25	BB	1433	A	N1-C2-N3	-11.79	123.41	129.30
25	BB	2191	A	N1-C6-N6	-11.79	111.53	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	332	G	N3-C4-C5	-11.79	122.71	128.60
3	A1	841	C	O4'-C1'-N1	11.79	117.63	108.20
3	A1	1499	A	N1-C6-N6	-11.79	111.53	118.60
25	BB	996	A	O4'-C1'-N9	11.79	117.63	108.20
25	BB	129	C	C2-N3-C4	-11.78	114.01	119.90
25	BB	1734	G	N3-C4-N9	11.78	133.07	126.00
25	BB	2648	G	C5-C6-N1	11.78	117.39	111.50
25	BB	2248	C	N3-C4-N4	-11.78	109.75	118.00
3	A1	387	U	C5-C6-N1	-11.78	116.81	122.70
1	AP	69	U	N3-C2-O2	-11.78	113.96	122.20
1	AE	13	C	O4'-C1'-N1	11.78	117.62	108.20
3	A1	493	A	N1-C6-N6	-11.78	111.53	118.60
3	A1	759	A	C5-C6-N1	11.78	123.59	117.70
15	AO	10	ARG	NE-CZ-NH2	11.78	126.19	120.30
25	BB	237	C	C2-N3-C4	-11.78	114.01	119.90
25	BB	2711	A	C4-C5-C6	-11.78	111.11	117.00
25	BB	93	G	C8-N9-C4	-11.78	101.69	106.40
25	BB	1142	A	C5-C6-N1	11.78	123.59	117.70
25	BB	1394	U	N3-C2-O2	-11.78	113.96	122.20
3	A1	1359	C	N3-C4-C5	11.77	126.61	121.90
24	BA	12	C	N1-C2-O2	11.77	125.96	118.90
25	BB	24	G	C6-N1-C2	-11.77	118.04	125.10
3	A1	77	A	C8-N9-C4	11.77	110.51	105.80
3	A1	91	U	N1-C2-N3	11.77	121.96	114.90
25	BB	559	G	O4'-C1'-N9	11.77	117.61	108.20
25	BB	2464	G	N1-C6-O6	-11.77	112.84	119.90
25	BB	2291	U	C3'-C2'-C1'	11.77	110.92	101.50
25	BB	2824	C	N1-C2-O2	11.77	125.96	118.90
25	BB	2154	A	N1-C6-N6	-11.77	111.54	118.60
25	BB	1066	U	N3-C2-O2	-11.77	113.96	122.20
25	BB	1918	A	C4-C5-C6	-11.77	111.12	117.00
3	A1	532	A	N1-C6-N6	-11.76	111.54	118.60
3	A1	836	G	C5-N7-C8	-11.76	98.42	104.30
25	BB	1569	A	C6-N1-C2	-11.76	111.54	118.60
25	BB	1804	C	O4'-C1'-N1	11.76	117.61	108.20
25	BB	1873	G	N9-C4-C5	11.76	110.11	105.40
25	BB	2819	G	C4-C5-N7	-11.76	106.09	110.80
3	A1	259	G	C4-C5-N7	-11.76	106.10	110.80
25	BB	1253	A	N1-C6-N6	-11.76	111.54	118.60
25	BB	1967	C	N3-C4-C5	11.76	126.61	121.90
25	BB	2432	A	C2-N3-C4	11.76	116.48	110.60
3	A1	1021	A	C4-C5-C6	-11.76	111.12	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	708	G	C5-N7-C8	-11.76	98.42	104.30
3	A1	1282	C	N3-C4-N4	-11.75	109.77	118.00
3	A1	1388	C	N1-C2-O2	11.75	125.95	118.90
25	BB	1072	C	N1-C2-O2	11.75	125.95	118.90
25	BB	1341	G	N1-C6-O6	-11.75	112.85	119.90
25	BB	2757	A	N1-C6-N6	-11.75	111.55	118.60
3	A1	753	A	C4-C5-C6	-11.75	111.12	117.00
3	A1	738	C	N1-C2-O2	11.75	125.95	118.90
3	A1	883	C	C2-N3-C4	-11.75	114.03	119.90
25	BB	22	C	N3-C4-C5	11.75	126.60	121.90
25	BB	2440	C	N1-C2-O2	11.74	125.95	118.90
25	BB	269	C	N3-C2-O2	-11.74	113.68	121.90
25	BB	444	C	N3-C4-N4	-11.74	109.78	118.00
25	BB	1308	A	C5-C6-N1	11.74	123.57	117.70
25	BB	2378	A	N9-C4-C5	11.74	110.50	105.80
3	A1	260	G	C5-C6-O6	11.74	135.65	128.60
24	BA	108	A	C8-N9-C4	-11.74	101.10	105.80
25	BB	2816	G	C6-C5-N7	11.74	137.44	130.40
3	A1	704	A	C8-N9-C4	-11.74	101.10	105.80
3	A1	841	C	N3-C2-O2	-11.74	113.68	121.90
25	BB	1566	A	C4-C5-C6	-11.74	111.13	117.00
25	BB	1611	C	N3-C2-O2	-11.74	113.68	121.90
25	BB	153	U	O4'-C1'-N1	11.74	117.59	108.20
25	BB	2460	U	O4'-C1'-C2'	-11.74	94.06	105.80
25	BB	2500	U	N3-C2-O2	-11.74	113.98	122.20
25	BB	396	G	N3-C2-N2	-11.73	111.69	119.90
25	BB	582	A	C5-C6-N1	11.73	123.57	117.70
3	A1	196	A	C5-C6-N1	11.73	123.57	117.70
3	A1	1094	G	N3-C4-N9	11.73	133.04	126.00
25	BB	873	C	N3-C2-O2	-11.73	113.69	121.90
25	BB	2051	A	C2-N3-C4	11.73	116.47	110.60
25	BB	2409	G	C6-N1-C2	-11.73	118.06	125.10
3	A1	211	G	N3-C2-N2	11.73	128.11	119.90
3	A1	646	G	N1-C6-O6	-11.73	112.86	119.90
3	A1	882	C	N3-C2-O2	-11.73	113.69	121.90
25	BB	737	C	N3-C4-C5	11.73	126.59	121.90
3	A1	1252	A	C5-C6-N1	11.73	123.56	117.70
25	BB	1192	G	N1-C6-O6	-11.73	112.86	119.90
25	BB	1590	A	C5-N7-C8	-11.73	98.03	103.90
25	BB	2186	G	N1-C6-O6	-11.73	112.86	119.90
25	BB	2143	C	C6-N1-C2	-11.73	115.61	120.30
25	BB	2339	C	N3-C4-C5	-11.73	117.21	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	923	A	C4-C5-C6	-11.73	111.14	117.00
25	BB	1806	C	N3-C2-O2	-11.73	113.69	121.90
3	A1	622	A	N1-C6-N6	-11.73	111.56	118.60
25	BB	1574	C	C6-N1-C2	-11.73	115.61	120.30
25	BB	612	G	C2-N3-C4	11.72	117.76	111.90
25	BB	2407	A	N1-C2-N3	-11.72	123.44	129.30
24	BA	88	C	C5-C6-N1	-11.72	115.14	121.00
25	BB	1348	C	C6-N1-C2	-11.72	115.61	120.30
25	BB	1685	C	C2-N3-C4	-11.72	114.04	119.90
25	BB	1743	G	C5-C6-O6	11.72	135.63	128.60
25	BB	2142	A	N1-C6-N6	-11.72	111.57	118.60
25	BB	2148	G	C8-N9-C4	-11.72	101.71	106.40
1	AP	25	C	N1-C2-N3	11.72	127.40	119.20
25	BB	988	A	C4-C5-C6	-11.72	111.14	117.00
1	AA	27	C	N1-C2-O2	11.72	125.93	118.90
3	A1	572	A	C6-C5-N7	11.72	140.50	132.30
3	A1	1524	C	N3-C2-O2	-11.72	113.70	121.90
25	BB	923	G	N3-C2-N2	-11.72	111.70	119.90
25	BB	2312	U	C5-C6-N1	-11.72	116.84	122.70
3	A1	1028	C	N3-C2-O2	-11.71	113.70	121.90
25	BB	2270	A	N1-C2-N3	-11.72	123.44	129.30
3	A1	1060	U	O4'-C1'-N1	11.71	117.57	108.20
3	A1	779	C	N3-C4-N4	-11.71	109.80	118.00
3	A1	995	C	N3-C2-O2	-11.71	113.70	121.90
25	BB	1738	G	N7-C8-N9	11.71	118.96	113.10
25	BB	2031	A	C4-C5-C6	-11.71	111.14	117.00
25	BB	2052	A	N1-C6-N6	-11.71	111.57	118.60
25	BB	2452	C	N3-C2-O2	-11.71	113.70	121.90
25	BB	2642	G	N3-C4-N9	11.71	133.03	126.00
1	AP	12	U	N3-C2-O2	-11.71	114.00	122.20
25	BB	1745	A	N1-C6-N6	-11.71	111.58	118.60
25	BB	1167	C	O4'-C1'-N1	11.71	117.57	108.20
1	AP	23	A	C4-C5-C6	-11.71	111.15	117.00
3	A1	649	A	C5-C6-N1	11.71	123.55	117.70
3	A1	1166	G	C6-C5-N7	11.71	137.42	130.40
25	BB	2107	G	N1-C6-O6	-11.71	112.88	119.90
25	BB	2492	U	C1'-O4'-C4'	-11.71	100.53	109.90
30	BG	90	ARG	NE-CZ-NH1	11.71	126.15	120.30
3	A1	634	C	N3-C4-N4	-11.70	109.81	118.00
25	BB	2802	G	N1-C6-O6	-11.70	112.88	119.90
3	A1	898	G	N1-C6-O6	-11.70	112.88	119.90
25	BB	485	C	N3-C4-N4	-11.70	109.81	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	344	A	C5-C6-N6	11.70	133.06	123.70
3	A1	622	A	C5-N7-C8	11.70	109.75	103.90
3	A1	699	C	C6-N1-C2	-11.70	115.62	120.30
3	A1	738	C	C5-C6-N1	-11.70	115.15	121.00
3	A1	1218	C	N3-C2-O2	-11.70	113.71	121.90
25	BB	2614	A	C5-C6-N1	11.70	123.55	117.70
48	BY	59	ARG	NE-CZ-NH2	11.70	126.15	120.30
25	BB	1810	A	C2-N3-C4	11.70	116.45	110.60
3	A1	184	G	N3-C4-C5	-11.69	122.75	128.60
25	BB	504	A	C5-C6-N1	11.70	123.55	117.70
25	BB	1930	G	N1-C6-O6	-11.70	112.88	119.90
3	A1	40	C	N1-C2-O2	11.69	125.92	118.90
25	BB	126	A	C4-C5-C6	-11.69	111.15	117.00
3	A1	647	C	C5-C6-N1	-11.69	115.16	121.00
3	A1	1149	C	C2-N3-C4	-11.69	114.05	119.90
3	A1	1378	C	N3-C4-N4	-11.69	109.82	118.00
25	BB	801	G	N1-C2-N3	11.69	130.91	123.90
25	BB	1400	U	C6-N1-C2	-11.69	113.98	121.00
3	A1	1437	A	C4-C5-N7	11.69	116.55	110.70
25	BB	1942	C	O4'-C1'-N1	11.69	117.55	108.20
3	A1	580	C	N3-C2-O2	-11.69	113.72	121.90
3	A1	813	U	C2-N3-C4	-11.69	119.99	127.00
25	BB	2421	G	N3-C4-C5	-11.69	122.76	128.60
25	BB	97	C	N3-C4-C5	11.68	126.57	121.90
25	BB	227	A	C5-C6-N1	11.68	123.54	117.70
25	BB	991	C	OP1-P-OP2	-11.68	102.08	119.60
25	BB	1732	C	N3-C2-O2	-11.68	113.72	121.90
3	A1	1061	G	C5-C6-N1	11.68	117.34	111.50
25	BB	689	A	C4-C5-C6	-11.68	111.16	117.00
25	BB	1255	U	C3'-C2'-C1'	-11.68	92.16	101.50
25	BB	2428	G	O4'-C1'-N9	11.68	117.54	108.20
3	A1	733	G	O4'-C1'-N9	11.68	117.54	108.20
25	BB	95	A	C5-C6-N1	11.68	123.54	117.70
25	BB	2172	U	C1'-O4'-C4'	-11.68	100.56	109.90
3	A1	487	A	C4-C5-C6	-11.68	111.16	117.00
25	BB	87	U	C4-C5-C6	11.68	126.71	119.70
25	BB	156	A	C4-C5-C6	-11.68	111.16	117.00
25	BB	514	A	O4'-C1'-N9	11.68	117.54	108.20
25	BB	610	C	C2-N3-C4	-11.68	114.06	119.90
25	BB	2464	G	N7-C8-N9	11.68	118.94	113.10
25	BB	759	G	N3-C4-N9	11.68	133.00	126.00
25	BB	1535	A	C4-C5-C6	-11.68	111.16	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	918	A	C5-C6-N1	11.67	123.54	117.70
3	A1	946	A	C5-N7-C8	-11.67	98.06	103.90
25	BB	1227	G	C8-N9-C4	-11.67	101.73	106.40
25	BB	2794	C	C4-C5-C6	11.67	123.24	117.40
3	A1	180	U	N1-C2-O2	11.67	130.97	122.80
25	BB	957	C	C4-C5-C6	11.67	123.23	117.40
3	A1	889	A	C8-N9-C4	-11.67	101.13	105.80
3	A1	1026	G	N9-C4-C5	11.67	110.07	105.40
3	A1	1163	A	C4-C5-C6	-11.67	111.17	117.00
25	BB	2046	G	C5-N7-C8	-11.67	98.47	104.30
25	BB	1825	U	N3-C4-O4	11.67	127.57	119.40
3	A1	899	C	N3-C2-O2	-11.66	113.73	121.90
3	A1	1208	C	N3-C4-N4	-11.66	109.83	118.00
3	A1	1002	G	N7-C8-N9	11.66	118.93	113.10
3	A1	524	G	N3-C4-N9	11.66	133.00	126.00
25	BB	1156	A	C4-C5-C6	-11.66	111.17	117.00
3	A1	1382	C	C6-N1-C2	-11.66	115.64	120.30
25	BB	453	A	C6-N1-C2	-11.66	111.60	118.60
25	BB	1427	A	C5-C6-N1	11.66	123.53	117.70
25	BB	2809	A	C5-C6-N1	11.66	123.53	117.70
3	A1	281	G	C8-N9-C4	-11.66	101.74	106.40
3	A1	814	A	C5-C6-N1	11.66	123.53	117.70
24	BA	30	C	N3-C4-C5	11.66	126.56	121.90
25	BB	745	G	C8-N9-C4	-11.66	101.74	106.40
3	A1	1164	G	C4-C5-N7	-11.65	106.14	110.80
3	A1	1208	C	C5-C6-N1	-11.65	115.17	121.00
25	BB	706	A	N7-C8-N9	11.65	119.62	113.80
25	BB	1272	A	O4'-C1'-N9	11.65	117.52	108.20
25	BB	2835	A	C2-N3-C4	11.65	116.43	110.60
33	BJ	10	ARG	NE-CZ-NH2	-11.65	114.47	120.30
25	BB	968	C	N3-C4-N4	-11.65	109.85	118.00
25	BB	1048	A	N1-C6-N6	-11.65	111.61	118.60
25	BB	1327	A	N1-C6-N6	-11.65	111.61	118.60
25	BB	1383	A	C5-C6-N1	11.65	123.52	117.70
25	BB	1838	C	N1-C2-N3	11.65	127.35	119.20
3	A1	1221	G	N1-C6-O6	-11.64	112.91	119.90
25	BB	1746	A	C5-C6-N1	11.64	123.52	117.70
25	BB	2635	A	C6-C5-N7	11.64	140.45	132.30
25	BB	2863	C	C2-N3-C4	-11.64	114.08	119.90
25	BB	699	A	C4'-C3'-C2'	-11.64	90.96	102.60
25	BB	2366	A	C8-N9-C4	-11.64	101.14	105.80
3	A1	1415	G	N9-C4-C5	11.64	110.06	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	531	C	C2-N3-C4	-11.64	114.08	119.90
25	BB	782	A	O4'-C1'-N9	11.64	117.51	108.20
25	BB	925	A	C5-C6-N6	11.64	133.01	123.70
25	BB	1500	G	O4'-C1'-N9	11.64	117.51	108.20
1	AE	49	C	C2-N3-C4	-11.64	114.08	119.90
3	A1	730	G	N9-C4-C5	11.64	110.06	105.40
25	BB	159	G	N3-C4-C5	-11.64	122.78	128.60
25	BB	217	A	C5-C6-N1	11.64	123.52	117.70
25	BB	575	A	N1-C2-N3	-11.64	123.48	129.30
25	BB	614	A	C5-C6-N1	11.64	123.52	117.70
25	BB	2789	C	N1-C2-O2	11.64	125.88	118.90
3	A1	819	A	C6-N1-C2	-11.64	111.62	118.60
25	BB	195	A	N1-C6-N6	-11.64	111.62	118.60
28	BE	47	ARG	NE-CZ-NH1	11.64	126.12	120.30
3	A1	1378	C	C6-N1-C2	-11.63	115.65	120.30
25	BB	450	G	C6-C5-N7	-11.63	123.42	130.40
25	BB	850	U	C5-C4-O4	-11.63	118.92	125.90
25	BB	1790	C	C6-N1-C2	-11.63	115.65	120.30
25	BB	2875	C	N3-C2-O2	-11.63	113.76	121.90
25	BB	1099	G	N1-C6-O6	-11.63	112.92	119.90
3	A1	346	G	C2-N3-C4	11.63	117.72	111.90
25	BB	167	A	C6-C5-N7	11.63	140.44	132.30
25	BB	1357	C	N1-C2-O2	11.63	125.88	118.90
25	BB	2448	A	C5-C6-N1	11.63	123.52	117.70
1	AE	2	C	N3-C2-O2	-11.63	113.76	121.90
3	A1	934	C	C4-C5-C6	11.63	123.21	117.40
25	BB	413	C	N1-C2-O2	11.63	125.88	118.90
25	BB	1028	A	C6-N1-C2	-11.63	111.62	118.60
25	BB	1656	C	P-O3'-C3'	11.63	133.66	119.70
25	BB	2560	A	C4-C5-C6	-11.63	111.19	117.00
25	BB	2822	G	C5-C6-O6	11.63	135.58	128.60
3	A1	235	C	C5-C6-N1	-11.62	115.19	121.00
3	A1	545	C	N3-C2-O2	-11.63	113.76	121.90
25	BB	332	A	N1-C6-N6	-11.62	111.62	118.60
25	BB	1007	C	N3-C2-O2	-11.62	113.76	121.90
25	BB	1247	A	C6-C5-N7	11.62	140.44	132.30
25	BB	1607	C	C6-N1-C2	-11.63	115.65	120.30
25	BB	2581	G	N1-C6-O6	-11.62	112.92	119.90
3	A1	1183	U	N3-C2-O2	-11.62	114.06	122.20
25	BB	1478	G	N1-C6-O6	-11.62	112.93	119.90
25	BB	1960	A	C5-N7-C8	-11.62	98.09	103.90
25	BB	2513	A	N1-C6-N6	-11.62	111.63	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	665	A	C8-N9-C4	-11.62	101.15	105.80
25	BB	81	G	C5-C6-N1	11.62	117.31	111.50
25	BB	1126	A	N1-C2-N3	-11.62	123.49	129.30
25	BB	1268	A	C2-N3-C4	11.62	116.41	110.60
25	BB	2828	G	N9-C4-C5	11.62	110.05	105.40
25	BB	631	A	C5-C6-N6	11.62	132.99	123.70
25	BB	2201	G	C4-C5-N7	-11.62	106.15	110.80
25	BB	2314	A	C2-N3-C4	11.62	116.41	110.60
25	BB	820	A	C5-C6-N1	11.62	123.51	117.70
3	A1	5	U	C5-C6-N1	-11.61	116.89	122.70
3	A1	374	A	N9-C4-C5	11.61	110.44	105.80
25	BB	213	A	C5-N7-C8	-11.61	98.09	103.90
25	BB	462	C	O4'-C1'-N1	11.61	117.49	108.20
25	BB	521	U	N3-C2-O2	-11.61	114.07	122.20
1	AA	75	C	O4'-C1'-N1	-11.61	98.91	108.20
3	A1	225	C	C2-N3-C4	-11.61	114.10	119.90
3	A1	288	A	C4-C5-C6	-11.61	111.20	117.00
3	A1	520	A	C6-N1-C2	-11.61	111.63	118.60
25	BB	408	G	N7-C8-N9	11.61	118.90	113.10
25	BB	2058	A	C4-C5-C6	-11.61	111.20	117.00
25	BB	2301	C	C6-N1-C2	-11.61	115.66	120.30
25	BB	1235	G	C3'-C2'-C1'	11.61	110.79	101.50
3	A1	564	C	O4'-C1'-N1	11.61	117.48	108.20
24	BA	98	G	N3-C4-C5	-11.61	122.80	128.60
25	BB	2163	A	C5-C6-N1	11.61	123.50	117.70
25	BB	1800	C	N3-C2-O2	-11.61	113.78	121.90
25	BB	2456	C	C6-N1-C2	-11.61	115.66	120.30
1	AP	4	G	C5-C6-O6	11.60	135.56	128.60
3	A1	1015	G	C2-N3-C4	11.60	117.70	111.90
25	BB	78	U	C5-C6-N1	-11.60	116.90	122.70
25	BB	2021	C	N3-C2-O2	-11.60	113.78	121.90
24	BA	45	A	C2-N3-C4	11.60	116.40	110.60
25	BB	512	G	C5-C6-O6	11.60	135.56	128.60
25	BB	1677	A	C4-C5-C6	-11.60	111.20	117.00
25	BB	2026	U	N3-C4-C5	-11.60	107.64	114.60
25	BB	2449	U	O4'-C4'-C3'	11.60	115.60	104.00
24	BA	15	A	C5-C6-N1	11.60	123.50	117.70
25	BB	2153	C	N1-C2-N3	11.60	127.32	119.20
3	A1	1197	A	C5-C6-N1	11.59	123.50	117.70
25	BB	138	U	N3-C2-O2	-11.59	114.08	122.20
25	BB	322	A	N1-C2-N3	-11.59	123.50	129.30
25	BB	1572	A	C8-N9-C4	-11.59	101.16	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	566	U	C5-C6-N1	-11.59	116.90	122.70
3	A1	553	A	C5-C6-N1	11.59	123.49	117.70
17	AR	153	ARG	NE-CZ-NH1	11.59	126.09	120.30
25	BB	1655	A	N1-C2-N3	-11.59	123.51	129.30
25	BB	1642	G	C5-C6-N1	11.59	117.29	111.50
25	BB	1698	A	O4'-C1'-N9	11.59	117.47	108.20
25	BB	2221	G	N9-C4-C5	11.59	110.03	105.40
1	AE	34	G	O4'-C1'-N9	11.58	117.47	108.20
3	A1	39	G	C5-N7-C8	-11.58	98.51	104.30
25	BB	440	C	N3-C2-O2	-11.58	113.79	121.90
25	BB	2095	A	C2-N3-C4	11.58	116.39	110.60
25	BB	2542	A	C5-C6-N1	11.58	123.49	117.70
25	BB	933	A	C6-C5-N7	11.58	140.41	132.30
25	BB	2274	A	N1-C2-N3	-11.58	123.51	129.30
25	BB	303	G	N9-C4-C5	11.58	110.03	105.40
3	A1	82	G	C5'-C4'-O4'	11.58	122.99	109.10
25	BB	313	G	N3-C2-N2	-11.58	111.80	119.90
25	BB	1221	C	O4'-C1'-N1	11.58	117.46	108.20
25	BB	2515	C	N1-C2-N3	11.58	127.30	119.20
1	AA	5	A	N1-C6-N6	-11.57	111.66	118.60
1	AE	55	U	N1-C2-N3	11.57	121.84	114.90
1	AP	73	A	C5-C6-N1	11.57	123.49	117.70
25	BB	453	A	C4-C5-C6	-11.57	111.21	117.00
25	BB	599	A	C4-C5-C6	-11.57	111.21	117.00
25	BB	2497	A	N1-C6-N6	-11.57	111.66	118.60
3	A1	285	C	N1-C2-O2	11.57	125.84	118.90
25	BB	2576	G	C5-C6-N1	11.57	117.29	111.50
3	A1	1391	U	C5-C4-O4	-11.57	118.96	125.90
25	BB	876	C	N3-C2-O2	-11.57	113.80	121.90
25	BB	1299	G	C4-C5-N7	11.57	115.43	110.80
25	BB	1347	A	C4-C5-C6	-11.57	111.22	117.00
25	BB	1847	A	C4-C5-C6	-11.57	111.22	117.00
25	BB	2668	G	C4-C5-N7	11.57	115.43	110.80
25	BB	1240	U	N3-C2-O2	-11.56	114.11	122.20
25	BB	1627	G	N9-C4-C5	11.56	110.03	105.40
25	BB	2130	U	N3-C2-O2	-11.56	114.11	122.20
25	BB	2317	A	N9-C4-C5	11.56	110.42	105.80
25	BB	2626	C	O4'-C1'-N1	11.56	117.45	108.20
25	BB	735	A	C4-C5-C6	-11.56	111.22	117.00
1	AP	62	A	N1-C6-N6	-11.56	111.66	118.60
25	BB	1264	A	C5-C6-N1	11.56	123.48	117.70
25	BB	1654	A	N1-C6-N6	-11.56	111.66	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2747	G	C4-C5-N7	11.56	115.42	110.80
25	BB	2502	G	N9-C4-C5	11.56	110.02	105.40
1	AP	4	G	N3-C2-N2	-11.56	111.81	119.90
25	BB	636	G	C5-C6-O6	-11.56	121.67	128.60
25	BB	1816	C	N3-C2-O2	-11.56	113.81	121.90
25	BB	2105	U	N3-C2-O2	-11.56	114.11	122.20
25	BB	2765	A	N1-C6-N6	-11.56	111.67	118.60
25	BB	2847	U	C2-N3-C4	-11.56	120.07	127.00
25	BB	396	G	N9-C4-C5	11.56	110.02	105.40
25	BB	1068	G	N3-C4-C5	-11.55	122.82	128.60
36	BM	69	ARG	NE-CZ-NH1	11.55	126.08	120.30
1	AE	2	C	O4'-C1'-N1	11.55	117.44	108.20
25	BB	181	A	N1-C6-N6	-11.55	111.67	118.60
25	BB	1162	G	C5-C6-N1	11.55	117.28	111.50
3	A1	1529	G	C8-N9-C4	-11.55	101.78	106.40
25	BB	761	A	N1-C6-N6	-11.55	111.67	118.60
19	AT	25	TYR	CB-CG-CD2	-11.55	114.07	121.00
25	BB	823	C	N3-C2-O2	-11.55	113.82	121.90
3	A1	1377	A	C4-C5-C6	-11.55	111.23	117.00
24	BA	2	G	C6-C5-N7	11.55	137.33	130.40
3	A1	56	U	O4'-C1'-N1	11.54	117.44	108.20
25	BB	748	G	N1-C2-N3	11.54	130.83	123.90
25	BB	1425	G	N1-C6-O6	-11.54	112.97	119.90
25	BB	670	A	C5-C6-N6	11.54	132.93	123.70
3	A1	329	A	C8-N9-C4	-11.54	101.18	105.80
3	A1	1132	C	O4'-C1'-N1	11.54	117.43	108.20
3	A1	567	G	C5-C6-O6	11.54	135.52	128.60
24	BA	21	G	C8-N9-C4	-11.54	101.78	106.40
25	BB	566	U	C4-C5-C6	11.54	126.62	119.70
25	BB	1204	A	O4'-C1'-C2'	-11.54	94.26	105.80
25	BB	1660	G	C1'-O4'-C4'	-11.54	100.67	109.90
25	BB	2540	C	N3-C4-N4	-11.54	109.92	118.00
3	A1	1359	C	N3-C4-N4	-11.54	109.92	118.00
25	BB	608	A	C3'-C2'-C1'	-11.54	92.27	101.50
3	A1	101	A	C2-N3-C4	11.53	116.37	110.60
3	A1	203	G	N3-C4-C5	-11.53	122.83	128.60
3	A1	344	A	N1-C2-N3	-11.53	123.53	129.30
3	A1	746	A	C6-N1-C2	-11.53	111.68	118.60
25	BB	345	A	N1-C6-N6	-11.53	111.68	118.60
25	BB	511	U	N3-C2-O2	-11.53	114.13	122.20
25	BB	425	G	C5-C6-N1	11.53	117.26	111.50
25	BB	524	G	N3-C4-C5	-11.53	122.84	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1463	C	N3-C2-O2	-11.53	113.83	121.90
25	BB	1808	A	C5-C6-N1	11.53	123.47	117.70
37	BN	51	ARG	NE-CZ-NH2	11.53	126.06	120.30
25	BB	1806	C	N1-C2-O2	11.53	125.82	118.90
3	A1	1385	G	N9-C4-C5	11.53	110.01	105.40
24	BA	21	G	C4-C5-C6	-11.53	111.89	118.80
24	BA	90	C	N1-C2-O2	11.53	125.81	118.90
25	BB	1033	U	C3'-C2'-C1'	11.53	110.72	101.50
25	BB	2057	G	C5'-C4'-O4'	11.53	122.93	109.10
3	A1	621	A	C4-C5-C6	-11.52	111.24	117.00
25	BB	130	C	N1-C2-O2	11.52	125.81	118.90
1	AA	1	G	C6-N1-C2	-11.52	118.19	125.10
3	A1	728	A	C5-C6-N1	11.52	123.46	117.70
25	BB	679	C	N3-C4-N4	-11.52	109.93	118.00
25	BB	2619	C	N3-C4-N4	-11.52	109.93	118.00
25	BB	346	A	N1-C2-N3	-11.52	123.54	129.30
25	BB	94	A	C5-C6-N1	11.52	123.46	117.70
25	BB	310	A	C4-C5-C6	-11.52	111.24	117.00
25	BB	814	C	O4'-C1'-N1	11.52	117.41	108.20
25	BB	938	G	C6-N1-C2	-11.52	118.19	125.10
25	BB	925	A	N1-C2-N3	-11.52	123.54	129.30
25	BB	1654	A	C3'-C2'-C1'	11.52	110.71	101.50
25	BB	497	A	C4-C5-C6	-11.51	111.24	117.00
25	BB	994	C	N1-C2-O2	11.51	125.81	118.90
47	BX	36	ARG	NE-CZ-NH1	11.51	126.06	120.30
3	A1	614	C	N3-C2-O2	-11.51	113.84	121.90
3	A1	1480	A	C5-N7-C8	-11.51	98.14	103.90
25	BB	2646	C	C2-N3-C4	-11.51	114.14	119.90
25	BB	1721	G	C5-N7-C8	-11.51	98.55	104.30
25	BB	2895	G	C2-N3-C4	11.51	117.65	111.90
3	A1	1423	G	N3-C2-N2	-11.51	111.85	119.90
25	BB	296	U	C4-C5-C6	11.51	126.60	119.70
25	BB	397	U	N1-C2-O2	11.51	130.85	122.80
25	BB	2458	G	N3-C2-N2	-11.51	111.85	119.90
25	BB	2657	A	C5-C6-N1	11.51	123.45	117.70
3	A1	331	G	N1-C2-N2	-11.50	105.85	116.20
25	BB	36	G	N7-C8-N9	11.50	118.85	113.10
25	BB	1324	G	N9-C4-C5	-11.50	100.80	105.40
25	BB	1733	G	C6-C5-N7	11.50	137.30	130.40
25	BB	2122	U	N3-C2-O2	-11.50	114.15	122.20
25	BB	2129	C	N1-C2-O2	11.50	125.80	118.90
25	BB	2226	C	C5-C4-N4	11.50	128.25	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2816	G	N1-C6-O6	-11.50	113.00	119.90
25	BB	2445	G	C5-C6-N1	11.50	117.25	111.50
25	BB	2724	U	C3'-C2'-C1'	11.50	110.70	101.50
3	A1	144	G	C5-C6-O6	11.50	135.50	128.60
3	A1	711	G	N3-C4-C5	-11.50	122.85	128.60
3	A1	835	U	N3-C2-O2	-11.50	114.15	122.20
25	BB	1168	G	C6-C5-N7	11.50	137.30	130.40
25	BB	2065	C	N3-C4-N4	-11.50	109.95	118.00
3	A1	1175	G	N7-C8-N9	11.50	118.85	113.10
25	BB	274	C	C5-C6-N1	-11.50	115.25	121.00
25	BB	709	U	C5-C4-O4	-11.50	119.00	125.90
25	BB	2107	G	C8-N9-C4	-11.50	101.80	106.40
53	B4	97	ARG	NE-CZ-NH1	11.50	126.05	120.30
3	A1	143	A	C5-C6-N1	11.49	123.45	117.70
3	A1	1292	G	N1-C6-O6	-11.49	113.00	119.90
25	BB	313	G	N1-C2-N2	11.49	126.55	116.20
3	A1	141	G	C5-C6-N1	11.49	117.25	111.50
3	A1	547	A	N1-C6-N6	-11.49	111.70	118.60
25	BB	1816	C	C2-N3-C4	-11.49	114.15	119.90
25	BB	2092	U	C5-C6-N1	-11.49	116.95	122.70
25	BB	2423	U	C5-C6-N1	-11.49	116.95	122.70
25	BB	2620	C	C2-N3-C4	-11.49	114.15	119.90
3	A1	1086	U	N3-C2-O2	-11.49	114.16	122.20
3	A1	1182	G	C8-N9-C4	-11.49	101.80	106.40
25	BB	1927	A	C6-C5-N7	11.49	140.34	132.30
25	BB	1669	A	C5-C6-N6	11.49	132.89	123.70
25	BB	1873	G	N1-C6-O6	-11.49	113.01	119.90
29	BF	50	ARG	NE-CZ-NH1	11.49	126.05	120.30
3	A1	1151	A	N1-C2-N3	-11.49	123.56	129.30
24	BA	97	C	N3-C4-C5	11.49	126.50	121.90
24	BA	62	C	N3-C4-C5	11.49	126.49	121.90
25	BB	1167	C	N3-C2-O2	-11.49	113.86	121.90
3	A1	189	A	C2-N3-C4	-11.48	104.86	110.60
25	BB	855	G	N9-C4-C5	-11.48	100.81	105.40
3	A1	1017	U	N3-C2-O2	-11.48	114.16	122.20
3	A1	1156	G	N3-C4-C5	-11.48	122.86	128.60
24	BA	110	C	N3-C4-C5	11.48	126.49	121.90
25	BB	1318	U	N3-C4-O4	11.48	127.44	119.40
25	BB	2100	G	C6-N1-C2	-11.48	118.21	125.10
3	A1	189	A	C4-C5-C6	-11.48	111.26	117.00
25	BB	72	U	O4'-C1'-N1	11.48	117.39	108.20
25	BB	2365	G	C4-C5-N7	-11.48	106.21	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	329	A	C5-C6-N1	11.48	123.44	117.70
3	A1	715	A	O4'-C1'-C2'	-11.48	94.32	105.80
25	BB	20	C	O4'-C1'-N1	11.48	117.38	108.20
3	A1	361	G	C4-C5-N7	11.47	115.39	110.80
3	A1	1270	G	C5-C6-N1	11.47	117.24	111.50
25	BB	92	U	N3-C2-O2	-11.47	114.17	122.20
25	BB	920	A	C6-N1-C2	-11.47	111.72	118.60
1	AP	7	U	C3'-C2'-C1'	11.47	110.68	101.50
1	AE	74	C	C5-C6-N1	-11.47	115.27	121.00
3	A1	854	U	N3-C2-O2	-11.47	114.17	122.20
25	BB	583	G	C2-N3-C4	11.47	117.64	111.90
25	BB	1754	A	C5-C6-N1	11.47	123.44	117.70
24	BA	34	A	C4-C5-C6	-11.47	111.27	117.00
25	BB	732	C	N3-C2-O2	-11.47	113.87	121.90
25	BB	809	G	N1-C6-O6	-11.47	113.02	119.90
25	BB	1257	C	N1-C2-O2	11.47	125.78	118.90
25	BB	1435	G	N9-C4-C5	11.47	109.99	105.40
25	BB	97	C	N3-C4-N4	-11.47	109.97	118.00
25	BB	386	G	C8-N9-C4	-11.47	101.81	106.40
25	BB	429	A	N1-C6-N6	-11.47	111.72	118.60
25	BB	1672	A	C6-C5-N7	11.47	140.33	132.30
25	BB	953	G	C5-C6-N1	11.46	117.23	111.50
25	BB	2488	G	C5-C6-N1	11.46	117.23	111.50
7	AF	2	ARG	NE-CZ-NH2	11.46	126.03	120.30
25	BB	1020	A	C6-N1-C2	-11.46	111.72	118.60
25	BB	1076	C	N3-C4-C5	11.46	126.48	121.90
3	A1	10	A	O4'-C4'-C3'	11.46	115.46	104.00
3	A1	1334	G	O4'-C4'-C3'	11.46	115.46	104.00
25	BB	121	G	C3'-C2'-C1'	11.46	110.67	101.50
25	BB	219	A	C6-C5-N7	11.46	140.32	132.30
25	BB	851	C	N3-C4-C5	11.46	126.48	121.90
25	BB	2445	G	C6-N1-C2	-11.46	118.22	125.10
48	BY	128	ARG	NE-CZ-NH1	11.46	126.03	120.30
3	A1	777	A	C4-C5-C6	-11.45	111.27	117.00
3	A1	1095	U	N1-C2-O2	11.46	130.82	122.80
15	AO	142	ARG	NE-CZ-NH1	11.45	126.03	120.30
25	BB	1854	A	C4-C5-C6	-11.46	111.27	117.00
1	AE	43	G	N1-C6-O6	-11.45	113.03	119.90
3	A1	119	A	C5-C6-N1	11.45	123.43	117.70
25	BB	330	A	C4-C5-N7	11.45	116.42	110.70
25	BB	1786	A	C5-C6-N1	11.45	123.43	117.70
25	BB	2262	U	O4'-C1'-N1	11.45	117.36	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	295	C	C2-N3-C4	-11.45	114.18	119.90
3	A1	646	G	N3-C2-N2	-11.45	111.89	119.90
3	A1	1094	G	N3-C4-C5	-11.45	122.88	128.60
3	A1	1246	A	C8-N9-C4	11.45	110.38	105.80
25	BB	943	A	C4-C5-C6	-11.45	111.28	117.00
3	A1	262	A	C6-C5-N7	11.45	140.31	132.30
3	A1	1252	A	C8-N9-C4	11.45	110.38	105.80
25	BB	412	A	N1-C2-N3	-11.45	123.58	129.30
25	BB	2184	A	N1-C6-N6	-11.45	111.73	118.60
25	BB	2378	A	N7-C8-N9	11.45	119.52	113.80
25	BB	1023	U	N3-C2-O2	-11.44	114.19	122.20
25	BB	2022	U	N3-C2-O2	-11.44	114.19	122.20
25	BB	2571	U	C1'-O4'-C4'	-11.45	100.74	109.90
25	BB	2637	U	C2-N3-C4	-11.45	120.13	127.00
3	A1	1530	G	N1-C2-N3	11.44	130.76	123.90
25	BB	474	G	N3-C2-N2	-11.44	111.89	119.90
25	BB	1762	A	C4-C5-C6	-11.44	111.28	117.00
25	BB	2900	A	C5-C6-N1	11.44	123.42	117.70
1	AA	34	G	C5-C6-N1	11.44	117.22	111.50
25	BB	2032	G	C2-N3-C4	11.44	117.62	111.90
25	BB	1877	A	C8-N9-C4	-11.43	101.23	105.80
25	BB	1924	C	C5-C6-N1	-11.43	115.28	121.00
25	BB	2668	G	N7-C8-N9	11.43	118.82	113.10
3	A1	366	A	N1-C6-N6	-11.43	111.74	118.60
3	A1	804	U	O4'-C1'-N1	11.43	117.34	108.20
3	A1	902	G	O4'-C1'-N9	11.43	117.34	108.20
24	BA	28	C	C2-N3-C4	-11.43	114.18	119.90
25	BB	430	A	N7-C8-N9	11.43	119.52	113.80
3	A1	652	U	N3-C2-O2	-11.43	114.20	122.20
3	A1	1347	G	C6-N1-C2	-11.43	118.24	125.10
25	BB	750	A	N7-C8-N9	11.43	119.51	113.80
25	BB	1179	G	N7-C8-N9	11.43	118.81	113.10
3	A1	454	G	C6-C5-N7	11.43	137.26	130.40
3	A1	1418	A	N7-C8-N9	11.43	119.51	113.80
25	BB	1392	A	C5-N7-C8	-11.43	98.19	103.90
25	BB	2171	A	C5-C6-N1	11.43	123.41	117.70
25	BB	33	C	N3-C4-N4	-11.42	110.00	118.00
25	BB	37	C	C5-C4-N4	-11.42	112.20	120.20
25	BB	1512	C	C2-N3-C4	-11.42	114.19	119.90
25	BB	2684	U	N3-C2-O2	-11.42	114.20	122.20
3	A1	462	G	N1-C6-O6	-11.42	113.05	119.90
3	A1	975	A	C6-C5-N7	11.42	140.29	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	532	A	C6-N1-C2	-11.42	111.75	118.60
25	BB	2156	G	N3-C4-C5	-11.42	122.89	128.60
25	BB	2471	A	C6-C5-N7	11.42	140.29	132.30
25	BB	2605	U	C5-C6-N1	-11.42	116.99	122.70
3	A1	403	C	N3-C2-O2	-11.41	113.91	121.90
18	AS	92	ARG	NE-CZ-NH1	11.41	126.01	120.30
25	BB	674	G	C2-N3-C4	11.41	117.61	111.90
3	A1	666	G	O4'-C1'-N9	11.41	117.33	108.20
25	BB	1678	A	C6-C5-N7	11.41	140.28	132.30
25	BB	1919	A	C4-C5-C6	-11.41	111.30	117.00
25	BB	2611	C	N3-C2-O2	-11.41	113.92	121.90
25	BB	2634	A	N1-C6-N6	-11.41	111.76	118.60
3	A1	712	A	C4-C5-C6	-11.40	111.30	117.00
25	BB	1118	C	N3-C2-O2	-11.40	113.92	121.90
25	BB	1593	A	N1-C2-N3	-11.40	123.60	129.30
34	BK	23	GLU	OE1-CD-OE2	-11.40	109.62	123.30
35	BL	25	ARG	NE-CZ-NH1	11.40	126.00	120.30
25	BB	1481	U	C5-C6-N1	-11.40	117.00	122.70
3	A1	907	A	C6-C5-N7	11.40	140.28	132.30
3	A1	960	U	N3-C4-O4	11.40	127.38	119.40
25	BB	400	G	C8-N9-C4	-11.40	101.84	106.40
25	BB	1691	C	C2-N3-C4	-11.40	114.20	119.90
25	BB	2003	A	C5-C6-N1	11.40	123.40	117.70
25	BB	2144	G	C5-C6-N1	11.40	117.20	111.50
3	A1	676	A	C4-C5-C6	-11.40	111.30	117.00
3	A1	774	G	N1-C2-N3	11.40	130.74	123.90
3	A1	1000	A	C4-C5-C6	-11.40	111.30	117.00
25	BB	337	C	N3-C4-C5	11.40	126.46	121.90
25	BB	1223	G	N1-C6-O6	-11.40	113.06	119.90
3	A1	860	A	C5-C6-N1	11.40	123.40	117.70
3	A1	1362	A	N1-C6-N6	-11.40	111.76	118.60
25	BB	1051	G	N1-C6-O6	-11.40	113.06	119.90
25	BB	537	G	N3-C2-N2	-11.39	111.92	119.90
25	BB	961	C	C2-N3-C4	-11.39	114.20	119.90
25	BB	2346	A	N1-C6-N6	-11.39	111.76	118.60
3	A1	949	A	C4-C5-C6	-11.39	111.30	117.00
3	A1	1461	G	C5-C6-O6	11.39	135.44	128.60
25	BB	455	C	N3-C4-C5	11.39	126.46	121.90
3	A1	766	A	C5-C6-N1	11.39	123.39	117.70
25	BB	914	G	N7-C8-N9	11.39	118.80	113.10
25	BB	2517	C	O4'-C4'-C3'	11.39	115.39	104.00
1	AP	36	A	C2-N3-C4	11.39	116.29	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	408	G	O4'-C1'-N9	11.39	117.31	108.20
3	A1	673	A	N1-C6-N6	-11.39	111.77	118.60
3	A1	262	A	C4-C5-C6	-11.38	111.31	117.00
24	BA	66	A	C6-C5-N7	11.38	140.27	132.30
25	BB	107	G	O4'-C1'-N9	11.38	117.31	108.20
25	BB	610	C	N3-C4-C5	11.38	126.45	121.90
25	BB	2668	G	C5-N7-C8	-11.38	98.61	104.30
3	A1	382	A	C6-N1-C2	-11.38	111.77	118.60
3	A1	867	G	N3-C2-N2	-11.38	111.93	119.90
3	A1	890	G	N1-C2-N2	-11.38	105.96	116.20
3	A1	938	A	O4'-C1'-N9	11.38	117.31	108.20
3	A1	1380	U	O4'-C1'-N1	11.38	117.31	108.20
25	BB	273	G	C5-C6-N1	11.38	117.19	111.50
25	BB	2468	A	C5-C6-N1	11.38	123.39	117.70
25	BB	1389	G	N3-C4-C5	-11.38	122.91	128.60
25	BB	1948	G	N1-C6-O6	-11.38	113.07	119.90
25	BB	859	G	N1-C6-O6	-11.38	113.07	119.90
25	BB	976	G	N1-C6-O6	-11.38	113.07	119.90
25	BB	2287	A	C2-N3-C4	11.38	116.29	110.60
25	BB	665	U	N1-C2-N3	11.38	121.73	114.90
25	BB	1088	A	C2-N3-C4	11.38	116.29	110.60
25	BB	1567	G	C5-C6-O6	11.38	135.43	128.60
25	BB	1744	A	C5-N7-C8	-11.38	98.21	103.90
1	AE	34	G	N1-C6-O6	-11.38	113.07	119.90
3	A1	1270	G	C5-C6-O6	11.38	135.43	128.60
3	A1	622	A	C5-C6-N1	11.37	123.39	117.70
3	A1	889	A	N7-C8-N9	11.37	119.49	113.80
3	A1	1266	G	C5-C6-O6	11.37	135.42	128.60
25	BB	347	A	C5-C6-N1	11.37	123.39	117.70
25	BB	1490	A	C8-N9-C4	-11.38	101.25	105.80
3	A1	67	C	N3-C4-C5	11.37	126.45	121.90
3	A1	372	C	O4'-C1'-C2'	-11.37	94.43	105.80
3	A1	852	G	C5-C6-N1	11.37	117.19	111.50
3	A1	1015	G	N1-C6-O6	-11.37	113.08	119.90
25	BB	151	C	C5-C4-N4	-11.37	112.24	120.20
25	BB	231	A	C4-C5-N7	-11.37	105.01	110.70
25	BB	529	A	C8-N9-C4	-11.37	101.25	105.80
3	A1	78	A	C5-C6-N1	11.37	123.39	117.70
3	A1	545	C	N1-C2-O2	11.37	125.72	118.90
12	AK	60	ARG	NE-CZ-NH1	11.37	125.98	120.30
25	BB	583	G	N3-C2-N2	11.37	127.86	119.90
25	BB	1030	C	C2-N3-C4	-11.37	114.22	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2132	U	N1-C2-N3	11.37	121.72	114.90
25	BB	2623	G	N1-C6-O6	-11.37	113.08	119.90
24	BA	10	G	C5-C6-N1	11.37	117.18	111.50
25	BB	1973	G	C1'-O4'-C4'	-11.37	100.81	109.90
25	BB	2803	G	C1'-O4'-C4'	-11.37	100.81	109.90
1	AA	23	A	N7-C8-N9	11.36	119.48	113.80
1	AE	31	A	C6-N1-C2	-11.36	111.78	118.60
25	BB	525	U	O4'-C1'-N1	11.36	117.29	108.20
25	BB	638	G	C8-N9-C4	-11.36	101.86	106.40
25	BB	652	U	C6-N1-C2	-11.36	114.18	121.00
25	BB	1376	C	O4'-C1'-N1	11.36	117.29	108.20
25	BB	1400	U	N3-C2-O2	-11.36	114.25	122.20
25	BB	2682	A	N7-C8-N9	11.36	119.48	113.80
25	BB	349	U	N3-C2-O2	-11.36	114.25	122.20
25	BB	614	A	C4-C5-C6	-11.36	111.32	117.00
25	BB	1543	G	N3-C4-C5	-11.36	122.92	128.60
3	A1	257	G	N3-C2-N2	-11.36	111.95	119.90
25	BB	63	A	C5-C6-N1	11.36	123.38	117.70
25	BB	2352	A	C5-N7-C8	-11.36	98.22	103.90
3	A1	309	A	C5-N7-C8	-11.35	98.22	103.90
3	A1	339	C	N3-C2-O2	-11.35	113.95	121.90
24	BA	109	A	C5-C6-N6	11.35	132.78	123.70
25	BB	412	A	O4'-C4'-C3'	11.35	115.35	104.00
25	BB	2436	G	C2-N3-C4	-11.35	106.22	111.90
1	AA	9	A	C5-C6-N1	11.35	123.38	117.70
3	A1	866	C	N3-C2-O2	-11.35	113.95	121.90
25	BB	689	A	C8-N9-C4	-11.35	101.26	105.80
25	BB	2037	A	C5-C6-N1	11.35	123.38	117.70
25	BB	2266	A	C4-C5-C6	-11.35	111.33	117.00
25	BB	2448	A	C8-N9-C4	-11.35	101.26	105.80
1	AE	69	U	C2-N3-C4	-11.35	120.19	127.00
3	A1	97	G	C5-C6-O6	11.35	135.41	128.60
25	BB	1156	A	N1-C6-N6	-11.35	111.79	118.60
25	BB	2339	C	C4-C5-C6	11.35	123.07	117.40
25	BB	1333	G	N1-C6-O6	-11.35	113.09	119.90
25	BB	2326	C	C5-C6-N1	-11.35	115.33	121.00
3	A1	822	U	N1-C2-O2	11.34	130.74	122.80
3	A1	1374	A	C4-C5-C6	-11.34	111.33	117.00
25	BB	399	U	N1-C2-N3	11.34	121.71	114.90
25	BB	1034	G	N1-C6-O6	-11.34	113.09	119.90
25	BB	1696	G	N9-C4-C5	11.34	109.94	105.40
3	A1	771	G	C4-C5-N7	-11.34	106.26	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2652	C	C4-C5-C6	-11.34	111.73	117.40
1	AA	24	G	N1-C6-O6	-11.34	113.10	119.90
3	A1	11	G	C5-C6-O6	11.34	135.40	128.60
3	A1	1385	G	N3-C4-C5	-11.34	122.93	128.60
25	BB	1240	U	C5-C6-N1	-11.34	117.03	122.70
3	A1	388	G	O4'-C4'-C3'	11.33	115.33	104.00
3	A1	1337	G	C8-N9-C4	-11.33	101.87	106.40
22	AW	11	ARG	NE-CZ-NH1	-11.33	114.63	120.30
25	BB	756	A	C6-C5-N7	11.33	140.23	132.30
1	AE	31	A	C5-C6-N1	11.33	123.36	117.70
3	A1	947	G	N1-C6-O6	-11.33	113.10	119.90
25	BB	483	A	C5-C6-N1	11.33	123.37	117.70
25	BB	2778	A	C5-C6-N1	11.33	123.36	117.70
25	BB	2216	G	N3-C4-N9	11.33	132.80	126.00
3	A1	413	G	N3-C2-N2	-11.33	111.97	119.90
2	AM	2	U	C5-C4-O4	11.33	132.70	125.90
3	A1	791	G	N9-C4-C5	11.33	109.93	105.40
25	BB	2636	C	C2-N3-C4	-11.33	114.24	119.90
3	A1	1171	A	C4-C5-C6	-11.33	111.34	117.00
25	BB	1495	A	N1-C6-N6	-11.33	111.80	118.60
25	BB	296	U	C5-C6-N1	-11.32	117.04	122.70
25	BB	1816	C	N3-C4-C5	11.32	126.43	121.90
1	AE	36	A	C2-N3-C4	11.32	116.26	110.60
25	BB	531	C	C5-C4-N4	11.32	128.13	120.20
1	AA	31	A	C4-C5-C6	-11.32	111.34	117.00
3	A1	1200	C	C6-N1-C2	-11.32	115.77	120.30
25	BB	544	C	O4'-C1'-N1	11.32	117.26	108.20
3	A1	70	U	C1'-O4'-C4'	-11.32	100.85	109.90
3	A1	1236	A	C4-C5-C6	-11.32	111.34	117.00
25	BB	2150	C	O4'-C1'-N1	11.32	117.25	108.20
25	BB	2717	C	N1-C2-O2	11.32	125.69	118.90
3	A1	346	G	N3-C4-N9	11.31	132.79	126.00
3	A1	450	G	C4-C5-N7	-11.31	106.28	110.80
3	A1	1531	A	N1-C6-N6	-11.31	111.81	118.60
25	BB	155	A	C5-C6-N1	11.31	123.36	117.70
25	BB	560	C	C4-C5-C6	-11.31	111.74	117.40
25	BB	929	U	N3-C2-O2	-11.31	114.28	122.20
3	A1	827	U	C1'-O4'-C4'	-11.31	100.85	109.90
25	BB	1967	C	C4-C5-C6	-11.31	111.74	117.40
25	BB	2226	C	N1-C2-O2	11.31	125.69	118.90
25	BB	2442	C	N1-C2-O2	11.31	125.69	118.90
3	A1	182	A	C1'-O4'-C4'	-11.31	100.85	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	502	A	C4-C5-C6	-11.31	111.35	117.00
3	A1	111	G	C5-C6-N1	11.31	117.15	111.50
3	A1	1413	A	N1-C6-N6	-11.31	111.82	118.60
25	BB	192	C	C5-C6-N1	-11.31	115.35	121.00
1	AE	6	U	N3-C2-O2	-11.30	114.29	122.20
3	A1	372	C	N3-C2-O2	-11.31	113.99	121.90
3	A1	1372	U	C2-N3-C4	-11.30	120.22	127.00
13	AL	54	ARG	NE-CZ-NH1	11.30	125.95	120.30
17	AR	110	ARG	NE-CZ-NH1	11.30	125.95	120.30
25	BB	330	A	C5'-C4'-O4'	11.30	122.67	109.10
25	BB	513	A	N1-C6-N6	-11.31	111.82	118.60
25	BB	2023	C	C5-C4-N4	-11.30	112.29	120.20
3	A1	351	G	N1-C6-O6	-11.30	113.12	119.90
3	A1	1249	C	C5-C6-N1	-11.30	115.35	121.00
3	A1	1261	A	N9-C4-C5	11.30	110.32	105.80
16	AQ	33	ARG	C-N-CA	11.30	149.95	121.70
25	BB	337	C	C2-N3-C4	-11.30	114.25	119.90
25	BB	472	A	N1-C6-N6	-11.30	111.82	118.60
25	BB	1444	G	N1-C2-N3	11.30	130.68	123.90
25	BB	1501	G	C5-C6-N1	11.30	117.15	111.50
3	A1	794	A	N1-C6-N6	-11.30	111.82	118.60
24	BA	100	G	N3-C4-C5	-11.30	122.95	128.60
25	BB	1779	U	O4'-C1'-N1	11.30	117.24	108.20
25	BB	864	G	N1-C6-O6	-11.30	113.12	119.90
25	BB	2078	C	C2-N3-C4	-11.30	114.25	119.90
25	BB	753	A	N9-C4-C5	11.29	110.32	105.80
25	BB	1086	A	C4-C5-C6	-11.29	111.35	117.00
25	BB	1690	A	C5-C6-N1	11.29	123.35	117.70
25	BB	1252	G	N1-C6-O6	-11.29	113.12	119.90
3	A1	66	A	N1-C6-N6	-11.29	111.83	118.60
25	BB	210	C	C2-N3-C4	-11.29	114.25	119.90
25	BB	827	U	C4-C5-C6	11.29	126.47	119.70
1	AA	23	A	C8-N9-C4	-11.29	101.28	105.80
3	A1	51	A	C5-C6-N6	11.29	132.73	123.70
3	A1	81	A	N1-C6-N6	-11.29	111.83	118.60
3	A1	316	C	N3-C4-N4	-11.29	110.10	118.00
3	A1	1426	G	N1-C6-O6	-11.29	113.13	119.90
25	BB	936	A	C6-N1-C2	-11.29	111.83	118.60
25	BB	560	C	N1-C2-O2	11.29	125.67	118.90
25	BB	664	G	N3-C4-C5	-11.29	122.96	128.60
25	BB	798	G	N1-C6-O6	-11.29	113.13	119.90
25	BB	1013	C	N3-C2-O2	-11.29	114.00	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2873	A	C4-C5-C6	-11.29	111.36	117.00
25	BB	24	G	C5-C6-N1	11.29	117.14	111.50
25	BB	398	C	N3-C4-C5	11.29	126.41	121.90
25	BB	1333	G	N3-C4-N9	11.29	132.77	126.00
25	BB	1789	A	C2-N3-C4	11.29	116.24	110.60
1	AA	22	G	O4'-C1'-N9	11.28	117.23	108.20
25	BB	371	A	C5-C6-N1	11.28	123.34	117.70
25	BB	1413	A	C6-C5-N7	11.29	140.20	132.30
3	A1	895	G	O4'-C1'-C2'	-11.28	94.52	105.80
3	A1	998	C	N3-C4-N4	-11.28	110.10	118.00
25	BB	146	A	C5-C6-N1	11.28	123.34	117.70
25	BB	1519	G	C5-N7-C8	-11.28	98.66	104.30
3	A1	543	U	C6-N1-C2	-11.28	114.23	121.00
3	A1	1018	G	C4-C5-C6	-11.28	112.03	118.80
25	BB	1448	G	C5-N7-C8	-11.28	98.66	104.30
3	A1	687	A	C5-N7-C8	-11.28	98.26	103.90
3	A1	1219	A	C5-C6-N1	11.28	123.34	117.70
17	AR	55	ARG	NE-CZ-NH1	11.28	125.94	120.30
25	BB	2672	U	C5-C6-N1	-11.28	117.06	122.70
3	A1	490	C	N3-C4-N4	11.28	125.89	118.00
25	BB	1974	C	O4'-C1'-N1	11.28	117.22	108.20
3	A1	290	C	N1-C2-O2	11.28	125.67	118.90
25	BB	1242	U	C5-C4-O4	-11.28	119.14	125.90
1	AE	29	A	C5-C6-N1	11.27	123.34	117.70
3	A1	1430	A	C4-C5-C6	-11.27	111.36	117.00
1	AP	19	G	N1-C6-O6	-11.27	113.14	119.90
25	BB	1794	A	C4-C5-C6	-11.27	111.36	117.00
3	A1	958	A	C5-C6-N1	11.27	123.33	117.70
3	A1	1144	G	N9-C4-C5	11.27	109.91	105.40
25	BB	1134	A	O4'-C1'-N9	11.27	117.21	108.20
3	A1	408	A	C4-C5-N7	-11.27	105.07	110.70
25	BB	101	A	O4'-C4'-C3'	11.27	115.27	104.00
25	BB	208	C	C2-N3-C4	-11.27	114.27	119.90
25	BB	2330	G	C5-C6-N1	11.27	117.13	111.50
25	BB	2551	C	N3-C4-C5	11.27	126.41	121.90
1	AP	9	A	C5-C6-N1	11.26	123.33	117.70
3	A1	1342	C	N3-C2-O2	-11.26	114.02	121.90
25	BB	258	G	N9-C4-C5	11.26	109.91	105.40
3	A1	914	A	C2-N3-C4	-11.26	104.97	110.60
3	A1	1150	A	C5-C6-N6	11.26	132.71	123.70
25	BB	631	A	C2-N3-C4	11.26	116.23	110.60
25	BB	965	C	N3-C2-O2	-11.26	114.02	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2476	A	C5-C6-N6	11.26	132.71	123.70
25	BB	2792	A	N1-C6-N6	-11.26	111.84	118.60
3	A1	528	C	N3-C2-O2	-11.26	114.02	121.90
3	A1	1486	G	C4-C5-N7	-11.26	106.30	110.80
1	AA	46	G	C5-C6-N1	11.26	117.13	111.50
24	BA	64	G	N1-C2-N3	11.26	130.65	123.90
3	A1	259	G	C6-N1-C2	-11.26	118.35	125.10
3	A1	269	C	C6-N1-C2	-11.26	115.80	120.30
3	A1	1183	U	C6-N1-C2	-11.26	114.25	121.00
24	BA	21	G	N1-C6-O6	-11.26	113.15	119.90
25	BB	1530	G	N3-C4-C5	-11.26	122.97	128.60
25	BB	2091	C	C5-C6-N1	-11.26	115.37	121.00
24	BA	40	U	N3-C2-O2	-11.25	114.32	122.20
1	AP	2	C	C2-N3-C4	-11.25	114.27	119.90
25	BB	2044	C	N1-C2-O2	11.25	125.65	118.90
3	A1	307	C	N3-C2-O2	-11.25	114.02	121.90
24	BA	13	G	C6-N1-C2	-11.25	118.35	125.10
24	BA	85	G	C5-C6-O6	11.25	135.35	128.60
25	BB	179	C	N3-C2-O2	-11.25	114.03	121.90
25	BB	2216	G	C5-N7-C8	-11.25	98.67	104.30
25	BB	2274	A	C2-N3-C4	11.25	116.22	110.60
25	BB	2347	C	O4'-C1'-N1	11.25	117.20	108.20
25	BB	2498	C	C2-N3-C4	-11.25	114.28	119.90
25	BB	2562	U	C5-C6-N1	-11.25	117.08	122.70
3	A1	1407	C	N3-C2-O2	-11.25	114.03	121.90
25	BB	5	A	C2-N3-C4	11.25	116.22	110.60
3	A1	927	G	C1'-O4'-C4'	-11.24	100.90	109.90
25	BB	921	C	N3-C2-O2	-11.24	114.03	121.90
25	BB	1400	U	N1-C2-N3	11.24	121.65	114.90
3	A1	1494	G	N3-C4-C5	-11.24	122.98	128.60
25	BB	407	G	O4'-C1'-N9	11.24	117.19	108.20
3	A1	510	A	C4-C5-C6	-11.24	111.38	117.00
3	A1	1248	A	N1-C6-N6	-11.24	111.86	118.60
3	A1	1445	U	C2-N3-C4	-11.24	120.26	127.00
15	AO	168	ARG	NE-CZ-NH1	11.24	125.92	120.30
23	AX	9	ARG	NE-CZ-NH1	11.24	125.92	120.30
1	AA	60	C	N3-C4-N4	-11.24	110.13	118.00
25	BB	2461	A	O4'-C4'-C3'	11.24	115.24	104.00
24	BA	105	G	N1-C6-O6	-11.23	113.16	119.90
3	A1	304	U	C2-N3-C4	-11.23	120.26	127.00
25	BB	652	U	N3-C2-O2	-11.23	114.34	122.20
25	BB	2523	G	O4'-C1'-N9	11.23	117.19	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2892	G	O4'-C1'-C2'	-11.23	94.57	105.80
19	AT	2	ARG	NE-CZ-NH2	-11.23	114.69	120.30
24	BA	19	C	N3-C4-C5	11.23	126.39	121.90
25	BB	887	U	C2-N3-C4	-11.23	120.26	127.00
25	BB	1359	A	N9-C4-C5	11.23	110.29	105.80
25	BB	2444	G	N3-C4-C5	-11.23	122.98	128.60
3	A1	83	C	N1-C2-O2	11.23	125.64	118.90
25	BB	932	U	C4-C5-C6	11.23	126.44	119.70
3	A1	673	A	C5'-C4'-O4'	11.22	122.57	109.10
3	A1	1204	A	C5-C6-N1	11.22	123.31	117.70
25	BB	1070	A	C4-C5-C6	-11.22	111.39	117.00
25	BB	602	A	C4-C5-C6	-11.22	111.39	117.00
1	AA	39	U	C5-C6-N1	-11.22	117.09	122.70
25	BB	2266	A	O4'-C1'-N9	11.22	117.17	108.20
3	A1	77	A	C4-C5-C6	-11.22	111.39	117.00
25	BB	335	C	N3-C2-O2	-11.21	114.05	121.90
25	BB	1276	A	C5-C6-N6	11.22	132.67	123.70
25	BB	1479	G	N3-C2-N2	-11.21	112.05	119.90
25	BB	1615	C	N3-C2-O2	-11.21	114.05	121.90
25	BB	2526	G	N1-C6-O6	-11.21	113.17	119.90
25	BB	686	U	C5-C6-N1	-11.21	117.09	122.70
3	A1	201	G	N1-C6-O6	-11.21	113.17	119.90
3	A1	1361	G	C8-N9-C4	-11.21	101.92	106.40
3	A1	1267	C	O4'-C1'-N1	11.21	117.17	108.20
25	BB	159	G	C8-N9-C4	-11.21	101.92	106.40
25	BB	1106	G	N3-C4-C5	-11.21	123.00	128.60
25	BB	2179	C	N3-C4-C5	11.21	126.38	121.90
3	A1	721	G	N3-C4-N9	11.21	132.72	126.00
25	BB	313	G	C2-N3-C4	11.21	117.50	111.90
25	BB	2447	G	C6-N1-C2	-11.21	118.37	125.10
3	A1	14	U	N3-C2-O2	-11.21	114.36	122.20
25	BB	2378	A	O4'-C1'-N9	11.21	117.17	108.20
3	A1	1484	C	O4'-C1'-N1	11.20	117.16	108.20
3	A1	411	A	C4-C5-C6	-11.20	111.40	117.00
3	A1	815	A	C5-C6-N1	11.20	123.30	117.70
25	BB	1919	A	N9-C4-C5	11.20	110.28	105.80
25	BB	2251	G	N1-C6-O6	-11.20	113.18	119.90
1	AP	56	C	N3-C4-N4	-11.20	110.16	118.00
1	AE	46	G	N3-C2-N2	-11.20	112.06	119.90
3	A1	1385	G	C4-C5-N7	-11.20	106.32	110.80
3	A1	1443	C	C5'-C4'-O4'	11.20	122.54	109.10
3	A1	1533	C	O4'-C1'-N1	11.20	117.16	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2895	G	C4-C5-N7	-11.20	106.32	110.80
25	BB	1444	G	C4-C5-C6	-11.20	112.08	118.80
3	A1	173	U	C1'-O4'-C4'	-11.20	100.94	109.90
3	A1	608	A	C5-C6-N1	11.20	123.30	117.70
25	BB	1459	G	C6-N1-C2	-11.20	118.38	125.10
25	BB	2429	G	N3-C4-C5	-11.20	123.00	128.60
25	BB	1314	C	N3-C2-O2	-11.19	114.07	121.90
25	BB	1839	G	N9-C4-C5	11.19	109.88	105.40
3	A1	1172	C	N3-C2-O2	-11.19	114.07	121.90
25	BB	744	U	N1-C2-N3	11.19	121.61	114.90
25	BB	1553	A	C5-C6-N1	11.19	123.29	117.70
3	A1	105	G	N3-C2-N2	-11.19	112.07	119.90
3	A1	532	A	C2-N3-C4	11.19	116.19	110.60
3	A1	621	A	C5-C6-N1	11.19	123.29	117.70
25	BB	823	C	C6-N1-C2	-11.19	115.83	120.30
25	BB	2488	G	C6-C5-N7	11.19	137.11	130.40
25	BB	2655	G	C6-N1-C2	-11.19	118.39	125.10
53	B4	50	ARG	CD-NE-CZ	11.19	139.26	123.60
3	A1	134	G	O4'-C1'-N9	11.18	117.15	108.20
3	A1	635	A	C5-C6-N1	11.18	123.29	117.70
3	A1	1213	A	C4-C5-C6	-11.18	111.41	117.00
25	BB	664	G	N9-C4-C5	11.18	109.87	105.40
25	BB	1243	C	N3-C4-C5	11.18	126.37	121.90
1	AA	69	U	C5'-C4'-O4'	11.18	122.52	109.10
3	A1	1136	C	C2-N3-C4	-11.18	114.31	119.90
24	BA	51	G	N1-C6-O6	-11.18	113.19	119.90
25	BB	822	G	C5-N7-C8	-11.18	98.71	104.30
3	A1	200	G	O4'-C4'-C3'	11.18	115.18	104.00
3	A1	522	C	N3-C4-N4	-11.18	110.17	118.00
3	A1	989	U	C4'-C3'-C2'	-11.18	91.42	102.60
3	A1	1236	A	C6-C5-N7	11.18	140.12	132.30
24	BA	43	C	N1-C2-N3	11.18	127.03	119.20
25	BB	493	G	C8-N9-C4	-11.18	101.93	106.40
25	BB	539	G	C4-C5-N7	-11.18	106.33	110.80
25	BB	696	G	C3'-C2'-C1'	11.18	110.44	101.50
25	BB	890	C	N3-C4-C5	11.18	126.37	121.90
25	BB	1050	A	C4-C5-C6	-11.18	111.41	117.00
25	BB	1741	C	C6-N1-C2	-11.18	115.83	120.30
25	BB	182	A	C4-C5-C6	-11.18	111.41	117.00
25	BB	483	A	C2-N3-C4	11.18	116.19	110.60
25	BB	1031	G	N3-C2-N2	-11.18	112.08	119.90
25	BB	2662	A	C5-N7-C8	-11.18	98.31	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1170	A	C8-N9-C4	-11.17	101.33	105.80
25	BB	2486	C	C5'-C4'-O4'	11.17	122.51	109.10
25	BB	142	A	C5-C6-N1	11.17	123.29	117.70
25	BB	2398	U	C2-N3-C4	-11.17	120.30	127.00
3	A1	316	C	N3-C2-O2	-11.17	114.08	121.90
3	A1	1458	G	N7-C8-N9	11.17	118.69	113.10
25	BB	218	A	N1-C2-N3	-11.17	123.72	129.30
25	BB	267	C	N1-C2-O2	11.17	125.60	118.90
25	BB	586	A	C5-N7-C8	11.17	109.48	103.90
25	BB	1283	G	C5-C6-N1	11.17	117.08	111.50
25	BB	1327	A	C4-C5-N7	-11.17	105.11	110.70
25	BB	2233	U	N1-C2-N3	11.17	121.60	114.90
25	BB	2242	G	N9-C4-C5	11.17	109.87	105.40
25	BB	2691	C	N3-C4-N4	-11.17	110.18	118.00
25	BB	1218	G	C8-N9-C4	-11.17	101.93	106.40
25	BB	1453	A	C4-C5-C6	-11.17	111.42	117.00
3	A1	1228	C	N3-C2-O2	-11.16	114.08	121.90
25	BB	2892	G	N3-C4-C5	-11.16	123.02	128.60
3	A1	642	A	N7-C8-N9	11.16	119.38	113.80
3	A1	1360	A	C4-C5-C6	-11.16	111.42	117.00
24	BA	109	A	N1-C2-N3	-11.16	123.72	129.30
25	BB	555	G	C8-N9-C4	-11.16	101.94	106.40
3	A1	540	G	C5-C6-N1	11.16	117.08	111.50
25	BB	415	A	C5-C6-N1	11.16	123.28	117.70
3	A1	544	G	N1-C6-O6	-11.16	113.20	119.90
3	A1	1226	C	C2-N3-C4	-11.16	114.32	119.90
25	BB	247	G	C6-N1-C2	-11.16	118.40	125.10
25	BB	2147	A	N1-C6-N6	-11.16	111.90	118.60
25	BB	1127	A	O4'-C1'-N9	11.16	117.13	108.20
25	BB	2559	C	C2-N3-C4	-11.16	114.32	119.90
1	AA	49	C	N1-C2-N3	11.16	127.01	119.20
3	A1	1410	A	C4-C5-C6	-11.16	111.42	117.00
3	A1	1451	U	N3-C2-O2	-11.16	114.39	122.20
25	BB	1763	G	N3-C4-N9	11.16	132.69	126.00
1	AA	17	U	C3'-C2'-C1'	-11.15	92.58	101.50
3	A1	886	G	C5'-C4'-C3'	-11.15	98.15	116.00
3	A1	1096	C	C2-N3-C4	-11.15	114.32	119.90
25	BB	1210	G	N1-C6-O6	-11.15	113.21	119.90
25	BB	2432	A	C4-C5-C6	-11.15	111.42	117.00
3	A1	699	C	N3-C4-N4	-11.15	110.19	118.00
17	AR	75	TYR	CB-CG-CD1	-11.15	114.31	121.00
24	BA	3	C	O4'-C1'-N1	11.15	117.12	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	415	A	C4-C5-C6	-11.15	111.42	117.00
25	BB	1403	A	O4'-C1'-N9	11.15	117.12	108.20
25	BB	2259	U	C2-N3-C4	-11.15	120.31	127.00
25	BB	2488	G	C6-N1-C2	-11.15	118.41	125.10
25	BB	2511	U	N3-C2-O2	-11.15	114.39	122.20
3	A1	417	G	N1-C6-O6	-11.15	113.21	119.90
5	AC	92	ARG	NE-CZ-NH1	11.15	125.88	120.30
25	BB	332	A	C5-N7-C8	-11.15	98.33	103.90
25	BB	1366	A	C5-C6-N1	11.15	123.27	117.70
49	BZ	98	ARG	NE-CZ-NH2	11.15	125.87	120.30
25	BB	560	C	N3-C2-O2	-11.15	114.10	121.90
25	BB	1904	G	C8-N9-C4	-11.15	101.94	106.40
50	B1	21	ARG	NE-CZ-NH1	11.15	125.87	120.30
25	BB	119	A	C4-C5-C6	-11.14	111.43	117.00
1	AP	23	A	C5-C6-N1	11.14	123.27	117.70
3	A1	637	C	N3-C4-C5	11.14	126.36	121.90
3	A1	906	A	C6-C5-N7	11.14	140.10	132.30
3	A1	1082	A	C5-C6-N1	11.14	123.27	117.70
25	BB	1723	G	C6-N1-C2	-11.14	118.41	125.10
25	BB	1994	C	C2-N3-C4	-11.14	114.33	119.90
3	A1	721	G	N9-C4-C5	-11.14	100.94	105.40
3	A1	1119	C	N3-C4-N4	-11.14	110.20	118.00
39	BP	40	ARG	NE-CZ-NH2	-11.14	114.73	120.30
2	AM	13	U	C1'-O4'-C4'	-11.14	100.99	109.90
25	BB	87	U	O4'-C1'-N1	11.14	117.11	108.20
25	BB	378	C	N3-C4-N4	-11.14	110.20	118.00
25	BB	501	A	C4-C5-C6	-11.14	111.43	117.00
25	BB	1650	A	N7-C8-N9	11.14	119.37	113.80
25	BB	1565	C	N3-C2-O2	-11.14	114.11	121.90
25	BB	2047	C	N3-C2-O2	-11.14	114.11	121.90
24	BA	114	C	C2-N3-C4	-11.13	114.33	119.90
25	BB	1238	G	N3-C4-C5	-11.13	123.03	128.60
25	BB	1109	C	N3-C2-O2	-11.13	114.11	121.90
25	BB	1918	A	O4'-C1'-N9	11.13	117.11	108.20
25	BB	2725	A	C4-C5-N7	11.13	116.27	110.70
42	BS	59	ARG	NE-CZ-NH2	-11.13	114.73	120.30
25	BB	1483	G	N9-C4-C5	11.13	109.85	105.40
25	BB	1809	A	N1-C2-N3	-11.13	123.74	129.30
3	A1	318	G	C8-N9-C4	-11.13	101.95	106.40
3	A1	1025	U	C3'-C2'-C1'	11.13	110.40	101.50
25	BB	2091	C	N3-C2-O2	-11.13	114.11	121.90
1	AE	71	G	N1-C6-O6	-11.12	113.22	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	805	C	C5-C4-N4	11.13	127.99	120.20
25	BB	236	C	N3-C2-O2	-11.13	114.11	121.90
25	BB	693	A	N1-C6-N6	-11.12	111.92	118.60
25	BB	1389	G	N3-C2-N2	-11.13	112.11	119.90
25	BB	2021	C	N1-C2-O2	11.13	125.58	118.90
25	BB	125	A	C5-C6-N6	11.12	132.60	123.70
25	BB	432	A	C4-C5-C6	-11.12	111.44	117.00
25	BB	938	G	C5-C6-N1	11.12	117.06	111.50
25	BB	2771	C	O4'-C1'-N1	11.12	117.10	108.20
25	BB	1847	A	C2-N3-C4	11.12	116.16	110.60
25	BB	2022	U	C3'-C2'-C1'	11.12	110.40	101.50
3	A1	242	G	C3'-C2'-C1'	11.12	110.39	101.50
25	BB	1281	G	N1-C2-N3	11.12	130.57	123.90
25	BB	2817	U	C5-C4-O4	-11.12	119.23	125.90
3	A1	1157	A	C6-N1-C2	-11.12	111.93	118.60
25	BB	945	A	C8-N9-C4	-11.12	101.35	105.80
3	A1	716	A	N1-C6-N6	-11.11	111.93	118.60
25	BB	729	G	N1-C6-O6	-11.11	113.23	119.90
25	BB	1860	G	N1-C6-O6	-11.11	113.23	119.90
25	BB	2433	A	C4-C5-C6	-11.11	111.44	117.00
1	AA	57	G	N1-C6-O6	-11.11	113.23	119.90
25	BB	1524	G	C6-N1-C2	-11.11	118.44	125.10
25	BB	2253	G	C1'-O4'-C4'	-11.11	101.01	109.90
25	BB	2440	C	N3-C2-O2	-11.11	114.12	121.90
25	BB	2847	U	N1-C2-N3	11.11	121.56	114.90
1	AE	45	G	O4'-C1'-N9	11.11	117.08	108.20
3	A1	1426	G	N9-C4-C5	-11.11	100.96	105.40
17	AR	74	TYR	CB-CG-CD2	-11.11	114.34	121.00
37	BN	268	ARG	NE-CZ-NH2	11.11	125.85	120.30
2	AM	1	U	C2-N3-C4	-11.10	120.34	127.00
3	A1	814	A	N1-C6-N6	-11.10	111.94	118.60
25	BB	506	G	C6-N1-C2	-11.10	118.44	125.10
25	BB	558	U	C5-C6-N1	-11.10	117.15	122.70
25	BB	926	G	C5-C6-N1	11.10	117.05	111.50
25	BB	1134	A	C8-N9-C4	-11.10	101.36	105.80
25	BB	2206	C	C2-N3-C4	-11.10	114.35	119.90
25	BB	2767	C	C5-C6-N1	-11.10	115.45	121.00
3	A1	22	G	N1-C6-O6	-11.10	113.24	119.90
3	A1	383	A	N1-C2-N3	-11.10	123.75	129.30
25	BB	458	G	C6-N1-C2	-11.10	118.44	125.10
25	BB	890	C	N3-C4-N4	-11.10	110.23	118.00
25	BB	421	C	C2-N3-C4	-11.10	114.35	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1517	G	C5-N7-C8	-11.10	98.75	104.30
25	BB	2217	G	N1-C2-N3	11.10	130.56	123.90
25	BB	2454	G	C8-N9-C4	-11.10	101.96	106.40
25	BB	2625	G	C5-C6-N1	11.10	117.05	111.50
3	A1	316	C	C5-C4-N4	11.09	127.97	120.20
25	BB	566	U	N3-C2-O2	-11.09	114.44	122.20
25	BB	1044	C	N3-C2-O2	-11.09	114.14	121.90
25	BB	1230	A	N1-C2-N3	-11.09	123.75	129.30
25	BB	2040	G	C4-C5-N7	11.09	115.24	110.80
25	BB	372	G	N1-C6-O6	-11.09	113.25	119.90
25	BB	772	C	C2-N3-C4	-11.09	114.36	119.90
25	BB	1285	A	O4'-C1'-N9	11.09	117.07	108.20
3	A1	173	U	O4'-C1'-N1	11.09	117.07	108.20
25	BB	19	A	C5-C6-N1	11.09	123.24	117.70
25	BB	788	A	C4-C5-C6	-11.09	111.46	117.00
1	AP	45	G	N3-C4-C5	-11.08	123.06	128.60
3	A1	827	U	C4-C5-C6	11.08	126.35	119.70
25	BB	158	U	N1-C2-N3	11.08	121.55	114.90
25	BB	482	A	C4-C5-C6	-11.08	111.46	117.00
3	A1	764	C	C5-C4-N4	-11.08	112.44	120.20
25	BB	209	C	N3-C2-O2	-11.08	114.14	121.90
25	BB	710	U	N1-C2-N3	11.08	121.55	114.90
25	BB	2179	C	C1'-O4'-C4'	-11.08	101.03	109.90
25	BB	2430	A	C8-N9-C4	-11.08	101.37	105.80
3	A1	183	C	N3-C2-O2	-11.08	114.15	121.90
3	A1	925	G	N1-C6-O6	-11.08	113.25	119.90
25	BB	700	G	N3-C4-C5	-11.08	123.06	128.60
1	AP	3	G	N1-C2-N3	11.07	130.54	123.90
3	A1	869	G	C2-N3-C4	-11.07	106.36	111.90
3	A1	1014	A	C5-C6-N1	11.07	123.24	117.70
25	BB	989	G	N3-C4-C5	-11.07	123.06	128.60
3	A1	50	A	C4-C5-C6	-11.07	111.46	117.00
3	A1	535	A	N1-C2-N3	-11.07	123.76	129.30
3	A1	731	G	N1-C6-O6	-11.07	113.26	119.90
25	BB	310	A	C5-C6-N1	11.07	123.24	117.70
25	BB	1622	G	C1'-O4'-C4'	-11.07	101.04	109.90
25	BB	1733	G	N1-C6-O6	-11.07	113.26	119.90
3	A1	399	G	N3-C4-C5	-11.07	123.07	128.60
3	A1	587	G	C5-N7-C8	-11.07	98.77	104.30
25	BB	30	G	C4-C5-N7	-11.07	106.37	110.80
25	BB	1815	A	C4-C5-C6	-11.07	111.47	117.00
1	AP	39	U	C5-C6-N1	-11.07	117.17	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AE	58	A	C4-C5-C6	-11.07	111.47	117.00
3	A1	38	G	C3'-C2'-C1'	11.07	110.35	101.50
3	A1	325	A	C4-C5-C6	-11.07	111.47	117.00
24	BA	90	C	N3-C2-O2	-11.07	114.15	121.90
3	A1	541	G	C4-C5-N7	-11.07	106.37	110.80
25	BB	81	G	N3-C2-N2	-11.07	112.15	119.90
25	BB	451	U	O4'-C1'-N1	11.07	117.05	108.20
25	BB	681	G	C5-C6-N1	11.07	117.03	111.50
25	BB	1878	G	N9-C4-C5	11.07	109.83	105.40
3	A1	656	G	C6-C5-N7	11.06	137.04	130.40
25	BB	304	U	N3-C2-O2	-11.06	114.45	122.20
25	BB	641	U	N1-C2-N3	11.06	121.54	114.90
25	BB	2453	A	C2-N3-C4	11.06	116.13	110.60
48	BY	124	ARG	NE-CZ-NH2	11.06	125.83	120.30
3	A1	47	C	N3-C2-O2	-11.06	114.16	121.90
25	BB	169	G	N7-C8-N9	11.06	118.63	113.10
25	BB	1229	C	C5-C6-N1	-11.06	115.47	121.00
3	A1	85	U	C5-C6-N1	-11.06	117.17	122.70
3	A1	635	A	C8-N9-C4	-11.06	101.38	105.80
3	A1	1269	A	O4'-C1'-N9	11.06	117.05	108.20
3	A1	721	G	C5-C6-O6	11.06	135.23	128.60
24	BA	92	C	C2-N3-C4	-11.06	114.37	119.90
25	BB	1916	A	C5-N7-C8	-11.06	98.37	103.90
25	BB	2851	A	N7-C8-N9	-11.06	108.27	113.80
25	BB	2894	G	N1-C6-O6	-11.06	113.27	119.90
25	BB	2161	C	N1-C2-O2	11.05	125.53	118.90
3	A1	160	A	N9-C4-C5	11.05	110.22	105.80
25	BB	2041	U	O4'-C1'-N1	11.05	117.04	108.20
3	A1	670	G	C5-C6-N1	11.05	117.03	111.50
3	A1	1492	A	N1-C6-N6	-11.05	111.97	118.60
1	AA	63	C	N3-C2-O2	-11.05	114.17	121.90
25	BB	460	A	N9-C4-C5	11.05	110.22	105.80
25	BB	2769	U	N3-C2-O2	-11.05	114.46	122.20
25	BB	2419	U	O4'-C1'-N1	11.05	117.04	108.20
3	A1	1066	C	C3'-C2'-C1'	11.05	110.34	101.50
25	BB	1196	C	C5-C6-N1	-11.05	115.48	121.00
25	BB	2581	G	N9-C4-C5	11.05	109.82	105.40
3	A1	228	A	N1-C6-N6	-11.04	111.97	118.60
3	A1	874	G	N1-C6-O6	-11.05	113.27	119.90
3	A1	923	A	C1'-O4'-C4'	-11.05	101.06	109.90
3	A1	1267	C	N1-C2-O2	11.05	125.53	118.90
3	A1	862	C	N1-C2-O2	11.04	125.53	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1062	U	N3-C2-O2	-11.04	114.47	122.20
25	BB	756	A	N1-C2-N3	-11.04	123.78	129.30
1	AP	61	C	C6-N1-C2	-11.04	115.88	120.30
3	A1	503	C	N3-C2-O2	-11.04	114.17	121.90
3	A1	1510	C	C5-C6-N1	-11.04	115.48	121.00
25	BB	1103	A	C4-C5-C6	-11.04	111.48	117.00
1	AA	49	C	C6-N1-C2	-11.04	115.89	120.30
24	BA	52	A	C2-N3-C4	11.04	116.12	110.60
25	BB	1192	G	C5-C6-N1	11.04	117.02	111.50
25	BB	2160	C	C2-N3-C4	-11.04	114.38	119.90
25	BB	2269	G	C5-C6-O6	11.04	135.22	128.60
3	A1	992	U	C5-C6-N1	-11.04	117.18	122.70
25	BB	2005	A	N1-C6-N6	-11.04	111.98	118.60
3	A1	161	A	N1-C6-N6	-11.04	111.98	118.60
3	A1	764	C	N3-C2-O2	-11.04	114.18	121.90
3	A1	838	G	C4-C5-C6	-11.04	112.18	118.80
25	BB	356	G	N7-C8-N9	11.04	118.62	113.10
25	BB	1504	A	N1-C6-N6	-11.04	111.98	118.60
25	BB	2725	A	N1-C2-N3	-11.04	123.78	129.30
3	A1	1084	G	C6-N1-C2	-11.03	118.48	125.10
3	A1	1353	G	N1-C6-O6	-11.03	113.28	119.90
20	AU	95	ARG	NH1-CZ-NH2	-11.03	107.26	119.40
25	BB	763	G	N3-C4-C5	-11.03	123.08	128.60
25	BB	825	A	N1-C2-N3	-11.03	123.78	129.30
37	BN	100	ARG	NE-CZ-NH1	11.03	125.82	120.30
25	BB	2737	G	C5-N7-C8	-11.03	98.78	104.30
25	BB	965	C	C6-N1-C2	-11.03	115.89	120.30
25	BB	1510	G	N9-C4-C5	-11.03	100.99	105.40
3	A1	229	U	C5-C6-N1	-11.03	117.19	122.70
25	BB	2540	C	N3-C4-C5	11.03	126.31	121.90
25	BB	1545	A	N1-C6-N6	-11.03	111.98	118.60
25	BB	2243	U	N1-C2-N3	11.03	121.52	114.90
25	BB	2494	G	C8-N9-C4	-11.03	101.99	106.40
3	A1	1098	C	N3-C2-O2	-11.02	114.18	121.90
25	BB	2237	G	C4-C5-N7	-11.02	106.39	110.80
3	A1	52	C	N1-C2-O2	11.02	125.51	118.90
25	BB	254	G	N1-C6-O6	-11.02	113.29	119.90
25	BB	2245	U	O4'-C1'-N1	11.02	117.02	108.20
3	A1	383	A	C8-N9-C4	-11.02	101.39	105.80
3	A1	553	A	N1-C2-N3	-11.02	123.79	129.30
3	A1	969	A	C6-C5-N7	11.02	140.01	132.30
25	BB	230	G	N9-C4-C5	11.02	109.81	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1570	A	O4'-C1'-N9	11.02	117.02	108.20
25	BB	1968	G	N1-C6-O6	-11.02	113.29	119.90
3	A1	1175	G	N3-C4-C5	-11.02	123.09	128.60
3	A1	523	A	C5-C6-N1	11.02	123.21	117.70
25	BB	92	U	N1-C2-O2	11.02	130.51	122.80
25	BB	686	U	C4-C5-C6	11.02	126.31	119.70
25	BB	1966	A	C6-C5-N7	11.02	140.01	132.30
25	BB	2051	A	N1-C2-N3	-11.02	123.79	129.30
3	A1	519	C	C4-C5-C6	11.01	122.91	117.40
3	A1	1022	A	C2-N3-C4	-11.01	105.09	110.60
25	BB	740	C	N1-C2-O2	11.01	125.51	118.90
20	AU	77	ARG	NE-CZ-NH1	11.01	125.81	120.30
25	BB	926	G	O4'-C1'-N9	11.01	117.01	108.20
3	A1	232	G	N1-C2-N3	11.01	130.51	123.90
3	A1	302	G	N3-C2-N2	-11.01	112.19	119.90
3	A1	314	C	C4'-C3'-C2'	-11.01	91.59	102.60
3	A1	760	G	C6-C5-N7	11.01	137.01	130.40
3	A1	1072	G	N1-C6-O6	-11.01	113.29	119.90
3	A1	1462	C	C6-N1-C2	-11.01	115.90	120.30
3	A1	831	A	N1-C6-N6	-11.01	111.99	118.60
3	A1	1382	C	N3-C4-N4	-11.01	110.29	118.00
25	BB	1883	U	N3-C2-O2	-11.01	114.49	122.20
3	A1	96	U	N1-C2-N3	11.01	121.50	114.90
3	A1	238	A	C5-C6-N6	11.01	132.51	123.70
3	A1	1448	C	C2-N3-C4	-11.01	114.40	119.90
25	BB	223	A	C2-N3-C4	11.01	116.10	110.60
25	BB	613	A	C5-C6-N1	11.01	123.20	117.70
3	A1	899	C	O4'-C1'-N1	11.01	117.00	108.20
25	BB	384	A	N1-C6-N6	-11.01	112.00	118.60
25	BB	777	G	C4-C5-N7	-11.01	106.40	110.80
3	A1	607	A	C5-C6-N1	11.00	123.20	117.70
3	A1	615	G	C8-N9-C4	11.00	110.80	106.40
25	BB	869	G	C4-C5-C6	-11.00	112.20	118.80
25	BB	2005	A	N3-C4-C5	11.00	134.50	126.80
24	BA	86	G	C5-C6-N1	11.00	117.00	111.50
25	BB	707	G	N7-C8-N9	11.00	118.60	113.10
3	A1	585	G	N3-C2-N2	-11.00	112.20	119.90
3	A1	465	A	C4-C5-N7	-10.99	105.20	110.70
3	A1	741	G	N1-C6-O6	-10.99	113.30	119.90
3	A1	896	C	N1-C2-O2	10.99	125.50	118.90
3	A1	1153	G	C5-C6-N1	10.99	117.00	111.50
25	BB	2641	G	N3-C4-C5	-10.99	123.10	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AE	60	C	O4'-C1'-N1	10.99	116.99	108.20
3	A1	1313	U	O4'-C1'-N1	10.99	116.99	108.20
3	A1	1441	A	C5-N7-C8	-10.99	98.41	103.90
25	BB	524	G	N1-C6-O6	-10.99	113.31	119.90
3	A1	320	A	N9-C4-C5	-10.99	101.41	105.80
25	BB	438	G	C6-N1-C2	-10.99	118.51	125.10
25	BB	2250	G	N9-C4-C5	10.99	109.80	105.40
3	A1	668	G	C5-C6-N1	10.98	116.99	111.50
25	BB	1819	A	N1-C6-N6	-10.98	112.01	118.60
25	BB	2840	C	O4'-C1'-N1	10.98	116.99	108.20
3	A1	1066	C	N3-C4-N4	-10.98	110.31	118.00
15	AO	131	ARG	NE-CZ-NH1	10.98	125.79	120.30
25	BB	869	G	N1-C6-O6	-10.98	113.31	119.90
1	AP	21	A	N1-C6-N6	-10.98	112.01	118.60
16	AQ	16	ARG	NH1-CZ-NH2	-10.98	107.32	119.40
25	BB	353	C	O4'-C1'-N1	10.98	116.99	108.20
25	BB	439	A	C4-C5-C6	-10.98	111.51	117.00
25	BB	835	C	C6-N1-C2	-10.98	115.91	120.30
25	BB	473	G	N1-C6-O6	-10.98	113.31	119.90
25	BB	1421	G	C5-C6-N1	10.98	116.99	111.50
1	AA	35	A	C2-N3-C4	10.98	116.09	110.60
25	BB	821	A	N1-C6-N6	-10.98	112.01	118.60
25	BB	865	C	N3-C4-C5	10.98	126.29	121.90
24	BA	8	C	C6-N1-C2	-10.98	115.91	120.30
25	BB	2100	G	C6-C5-N7	10.98	136.99	130.40
25	BB	2429	G	N1-C2-N3	10.98	130.49	123.90
25	BB	2681	C	C2-N3-C4	-10.98	114.41	119.90
25	BB	2792	A	C5-N7-C8	-10.98	98.41	103.90
1	AA	37	G	N1-C6-O6	-10.97	113.32	119.90
3	A1	393	A	N1-C2-N3	-10.97	123.81	129.30
3	A1	612	C	C6-N1-C2	-10.97	115.91	120.30
3	A1	887	G	N1-C6-O6	-10.97	113.31	119.90
3	A1	1446	A	N1-C6-N6	-10.97	112.02	118.60
19	AT	2	ARG	NE-CZ-NH1	10.97	125.79	120.30
25	BB	617	G	N1-C6-O6	-10.97	113.31	119.90
25	BB	185	G	C2-N3-C4	10.97	117.39	111.90
25	BB	679	C	N3-C4-C5	10.97	126.29	121.90
25	BB	2826	A	C5-C6-N6	10.97	132.48	123.70
1	AE	51	G	N3-C4-C5	-10.97	123.11	128.60
3	A1	752	G	N9-C4-C5	10.97	109.79	105.40
25	BB	311	A	C5-C6-N1	10.97	123.19	117.70
25	BB	1770	G	N1-C6-O6	-10.97	113.32	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2765	A	C5-C6-N1	10.97	123.19	117.70
3	A1	29	U	C2-N3-C4	-10.97	120.42	127.00
3	A1	303	A	C4-C5-C6	-10.97	111.52	117.00
3	A1	645	G	O4'-C1'-N9	10.97	116.97	108.20
3	A1	718	A	C3'-C2'-C1'	10.97	110.27	101.50
25	BB	885	C	C2-N3-C4	-10.97	114.42	119.90
25	BB	1147	A	C6-C5-N7	10.97	139.98	132.30
3	A1	468	A	N9-C4-C5	10.96	110.19	105.80
25	BB	1930	G	C5-C6-O6	10.96	135.18	128.60
25	BB	2654	A	C5-C6-N6	10.96	132.47	123.70
25	BB	1501	G	C6-N1-C2	-10.96	118.52	125.10
3	A1	376	G	N3-C4-N9	10.96	132.58	126.00
3	A1	1295	U	C6-N1-C2	-10.96	114.42	121.00
25	BB	64	A	C5-C6-N1	10.96	123.18	117.70
3	A1	123	U	C5-C6-N1	-10.96	117.22	122.70
1	AA	4	G	N3-C4-C5	-10.96	123.12	128.60
3	A1	220	G	N3-C2-N2	-10.96	112.23	119.90
3	A1	1342	C	C5-C6-N1	-10.96	115.52	121.00
25	BB	94	A	C4-C5-C6	-10.96	111.52	117.00
25	BB	480	A	C4-C5-C6	-10.96	111.52	117.00
25	BB	972	A	P-O3'-C3'	10.96	132.85	119.70
25	BB	1175	A	C4-C5-C6	-10.96	111.52	117.00
25	BB	1215	G	N7-C8-N9	10.96	118.58	113.10
25	BB	2377	A	C4-C5-C6	-10.96	111.52	117.00
25	BB	2567	G	N3-C2-N2	-10.96	112.23	119.90
3	A1	620	C	C6-N1-C2	-10.95	115.92	120.30
24	BA	38	C	N3-C4-C5	10.95	126.28	121.90
24	BA	69	G	N1-C2-N3	10.95	130.47	123.90
25	BB	964	C	C2-N3-C4	-10.96	114.42	119.90
34	BK	79	ARG	NE-CZ-NH1	10.96	125.78	120.30
3	A1	402	G	C6-N1-C2	-10.95	118.53	125.10
3	A1	856	C	C2-N3-C4	-10.95	114.42	119.90
3	A1	1266	G	N1-C6-O6	-10.95	113.33	119.90
25	BB	472	A	O5'-P-OP2	-10.95	95.84	105.70
25	BB	1212	G	C6-C5-N7	10.95	136.97	130.40
25	BB	1353	A	C4-C5-C6	-10.95	111.52	117.00
3	A1	502	A	C2-N3-C4	10.95	116.08	110.60
3	A1	756	C	O4'-C1'-N1	10.95	116.96	108.20
25	BB	320	A	C5-C6-N1	10.95	123.17	117.70
25	BB	380	G	N9-C4-C5	10.95	109.78	105.40
25	BB	2309	A	C5-C6-N1	10.95	123.17	117.70
3	A1	535	A	N1-C6-N6	-10.95	112.03	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	727	G	C2-N3-C4	10.95	117.37	111.90
3	A1	926	G	C5-C6-N1	10.95	116.97	111.50
25	BB	1961	C	N1-C2-O2	10.95	125.47	118.90
3	A1	883	C	N3-C2-O2	-10.94	114.24	121.90
3	A1	610	U	N3-C2-O2	-10.94	114.54	122.20
25	BB	601	C	C4'-C3'-C2'	-10.94	91.66	102.60
25	BB	768	G	C1'-O4'-C4'	-10.94	101.15	109.90
25	BB	1186	G	O4'-C1'-N9	10.94	116.95	108.20
25	BB	2208	C	N3-C2-O2	-10.94	114.24	121.90
25	BB	2467	C	C5'-C4'-O4'	-10.94	95.97	109.10
3	A1	734	G	C2-N3-C4	10.94	117.37	111.90
3	A1	1047	G	N3-C2-N2	-10.94	112.24	119.90
25	BB	1251	C	N1-C2-O2	10.94	125.46	118.90
25	BB	2684	U	N1-C2-N3	10.94	121.46	114.90
3	A1	127	G	O4'-C1'-N9	10.94	116.95	108.20
3	A1	335	C	N3-C2-O2	-10.94	114.24	121.90
25	BB	613	A	C4-C5-C6	-10.94	111.53	117.00
3	A1	1184	G	N7-C8-N9	10.94	118.57	113.10
24	BA	86	G	C4-C5-N7	-10.94	106.43	110.80
25	BB	219	A	C4-C5-C6	-10.94	111.53	117.00
25	BB	555	G	N9-C4-C5	10.94	109.78	105.40
25	BB	574	A	C8-N9-C4	-10.94	101.43	105.80
25	BB	1271	G	O4'-C1'-N9	10.94	116.95	108.20
3	A1	802	A	C8-N9-C4	-10.93	101.43	105.80
25	BB	1129	A	N1-C6-N6	-10.93	112.04	118.60
25	BB	849	A	N1-C6-N6	-10.93	112.04	118.60
31	BH	111	ARG	NE-CZ-NH1	10.93	125.77	120.30
3	A1	889	A	C5-C6-N1	10.93	123.17	117.70
25	BB	1075	C	C6-N1-C2	-10.93	115.93	120.30
25	BB	298	G	C3'-C2'-C1'	10.93	110.24	101.50
25	BB	1498	C	C5-C6-N1	-10.93	115.54	121.00
25	BB	1574	C	N3-C2-O2	-10.93	114.25	121.90
25	BB	1446	C	C3'-C2'-C1'	10.93	110.24	101.50
25	BB	2702	G	C5-N7-C8	-10.93	98.84	104.30
33	BJ	29	ARG	NE-CZ-NH2	10.93	125.76	120.30
25	BB	436	C	N3-C4-N4	-10.92	110.36	118.00
25	BB	828	U	C5-C6-N1	-10.92	117.24	122.70
25	BB	1182	G	C6-C5-N7	10.92	136.95	130.40
25	BB	1750	G	N1-C6-O6	-10.92	113.35	119.90
25	BB	1789	A	C4-C5-C6	-10.92	111.54	117.00
1	AA	23	A	C4-C5-C6	-10.92	111.54	117.00
25	BB	352	A	C8-N9-C4	-10.92	101.43	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	793	A	C8-N9-C4	-10.92	101.43	105.80
25	BB	1033	U	C2-N3-C4	10.92	133.55	127.00
25	BB	1388	G	C5-C6-N1	10.92	116.96	111.50
7	AF	28	ARG	NE-CZ-NH1	10.92	125.76	120.30
25	BB	883	G	N1-C6-O6	-10.92	113.35	119.90
25	BB	957	C	C1'-O4'-C4'	-10.92	101.17	109.90
25	BB	186	G	C4-C5-N7	-10.92	106.43	110.80
25	BB	1069	A	C4-C5-C6	-10.92	111.54	117.00
25	BB	1373	A	N7-C8-N9	-10.92	108.34	113.80
25	BB	2837	A	N1-C6-N6	-10.92	112.05	118.60
1	AP	2	C	N3-C4-C5	10.91	126.27	121.90
3	A1	325	A	N1-C2-N3	-10.91	123.84	129.30
25	BB	1575	C	N1-C2-O2	10.91	125.45	118.90
25	BB	1992	G	C8-N9-C4	-10.91	102.03	106.40
3	A1	6	G	N1-C6-O6	-10.91	113.35	119.90
25	BB	1778	U	O4'-C1'-N1	10.91	116.93	108.20
25	BB	2750	A	N1-C6-N6	-10.91	112.05	118.60
3	A1	878	A	C4-C5-C6	-10.91	111.55	117.00
25	BB	555	G	N3-C4-C5	-10.91	123.14	128.60
3	A1	669	G	C4-C5-C6	-10.91	112.25	118.80
3	A1	812	G	N1-C6-O6	-10.91	113.35	119.90
3	A1	1086	U	N1-C2-N3	10.91	121.45	114.90
25	BB	390	U	N3-C4-O4	10.91	127.04	119.40
25	BB	1329	U	C5-C6-N1	-10.91	117.25	122.70
25	BB	1758	U	C2-N3-C4	-10.91	120.45	127.00
3	A1	959	A	C4-C5-C6	-10.91	111.55	117.00
25	BB	1360	G	C4-C5-N7	-10.91	106.44	110.80
1	AA	55	U	C5-C6-N1	-10.90	117.25	122.70
3	A1	499	A	C8-N9-C4	10.90	110.16	105.80
3	A1	981	U	O4'-C1'-N1	10.90	116.92	108.20
24	BA	43	C	C2-N3-C4	-10.90	114.45	119.90
25	BB	370	G	N1-C2-N3	10.90	130.44	123.90
25	BB	1659	G	N7-C8-N9	10.90	118.55	113.10
36	BM	3	ARG	NE-CZ-NH1	10.90	125.75	120.30
25	BB	2064	C	N3-C4-C5	10.90	126.26	121.90
3	A1	931	C	C6-N1-C2	-10.90	115.94	120.30
3	A1	1391	U	O4'-C1'-N1	10.90	116.92	108.20
25	BB	47	C	N1-C2-O2	10.90	125.44	118.90
25	BB	356	G	C2-N3-C4	-10.90	106.45	111.90
25	BB	618	G	C5-N7-C8	-10.90	98.85	104.30
25	BB	1802	A	N1-C6-N6	-10.90	112.06	118.60
25	BB	2070	A	C4-C5-C6	-10.90	111.55	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
52	B3	162	ARG	NE-CZ-NH1	10.90	125.75	120.30
3	A1	914	A	C6-C5-N7	10.90	139.93	132.30
25	BB	160	A	N1-C6-N6	-10.90	112.06	118.60
25	BB	1323	C	N3-C2-O2	-10.90	114.27	121.90
25	BB	1481	U	C4-C5-C6	10.90	126.24	119.70
25	BB	1759	A	C5-N7-C8	-10.90	98.45	103.90
25	BB	2490	G	N1-C2-N2	-10.90	106.39	116.20
3	A1	434	U	N3-C2-O2	-10.89	114.57	122.20
3	A1	1226	C	N3-C2-O2	-10.89	114.27	121.90
25	BB	2031	A	C5-C6-N1	10.89	123.15	117.70
3	A1	1299	A	N9-C4-C5	10.89	110.16	105.80
25	BB	13	A	C5'-C4'-O4'	10.89	122.17	109.10
3	A1	452	A	C6-C5-N7	10.89	139.92	132.30
3	A1	559	A	C8-N9-C4	10.89	110.16	105.80
25	BB	1047	G	N9-C4-C5	10.89	109.76	105.40
25	BB	2023	C	C2-N3-C4	-10.89	114.46	119.90
25	BB	2108	A	N1-C6-N6	-10.89	112.07	118.60
3	A1	567	G	N7-C8-N9	10.89	118.54	113.10
3	A1	922	G	N1-C6-O6	-10.89	113.37	119.90
25	BB	1616	A	C5'-C4'-O4'	10.89	122.17	109.10
1	AE	20	G	C4-C5-N7	10.89	115.15	110.80
3	A1	533	A	C5-C6-N1	10.89	123.14	117.70
24	BA	53	A	C4-C5-C6	-10.89	111.56	117.00
25	BB	446	G	O4'-C1'-N9	10.89	116.91	108.20
1	AP	16	U	N1-C2-N3	10.88	121.43	114.90
3	A1	419	C	C2-N3-C4	-10.88	114.46	119.90
25	BB	2576	G	N1-C6-O6	-10.88	113.37	119.90
24	BA	37	C	C4'-C3'-C2'	-10.88	91.72	102.60
1	AA	74	C	C4-C5-C6	-10.88	111.96	117.40
25	BB	2761	A	C4-C5-C6	-10.88	111.56	117.00
25	BB	2893	A	N9-C4-C5	-10.88	101.45	105.80
25	BB	27	G	N3-C2-N2	-10.88	112.28	119.90
3	A1	78	A	C8-N9-C4	10.88	110.15	105.80
3	A1	1133	G	O4'-C1'-N9	10.88	116.90	108.20
8	AG	58	ARG	NE-CZ-NH2	10.88	125.74	120.30
25	BB	834	G	C8-N9-C4	-10.88	102.05	106.40
25	BB	2275	C	C2-N3-C4	-10.88	114.46	119.90
25	BB	245	G	N3-C2-N2	-10.88	112.29	119.90
25	BB	1780	A	N1-C6-N6	-10.88	112.07	118.60
3	A1	1493	A	C4-C5-C6	-10.88	111.56	117.00
25	BB	2039	U	O4'-C1'-N1	10.88	116.90	108.20
25	BB	2331	G	N1-C6-O6	-10.88	113.37	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	252	U	OP1-P-OP2	-10.87	103.29	119.60
3	A1	728	A	C4-C5-C6	-10.87	111.56	117.00
3	A1	974	A	C5-C6-N1	10.87	123.14	117.70
3	A1	1329	A	C4-C5-C6	-10.88	111.56	117.00
25	BB	989	G	C5-C6-N1	10.87	116.94	111.50
25	BB	1021	A	C5-C6-N6	10.88	132.40	123.70
3	A1	68	G	C6-C5-N7	10.87	136.92	130.40
3	A1	640	A	C6-C5-N7	10.87	139.91	132.30
3	A1	866	C	C6-N1-C2	-10.87	115.95	120.30
25	BB	1451	C	N1-C2-N3	10.87	126.81	119.20
25	BB	2016	U	N3-C2-O2	-10.87	114.59	122.20
3	A1	196	A	C1'-O4'-C4'	-10.87	101.21	109.90
25	BB	422	A	C5-C6-N1	10.87	123.13	117.70
25	BB	574	A	C4-C5-N7	-10.87	105.27	110.70
25	BB	786	C	O5'-P-OP1	-10.87	95.92	105.70
25	BB	1795	C	C6-N1-C2	-10.87	115.95	120.30
25	BB	1988	G	C8-N9-C4	-10.87	102.05	106.40
3	A1	1426	G	C4-C5-C6	-10.86	112.28	118.80
25	BB	2519	U	O4'-C1'-N1	10.87	116.89	108.20
3	A1	216	U	C4-C5-C6	10.86	126.22	119.70
3	A1	810	C	N1-C2-O2	10.86	125.42	118.90
3	A1	1155	A	C5-C6-N6	10.86	132.39	123.70
25	BB	487	C	N3-C4-N4	-10.86	110.40	118.00
25	BB	2194	U	N3-C4-O4	10.86	127.00	119.40
25	BB	2499	C	N3-C4-C5	10.86	126.24	121.90
1	AP	5	A	C5-C6-N1	10.86	123.13	117.70
3	A1	900	A	C5-C6-N1	10.86	123.13	117.70
2	AM	2	U	O4'-C1'-N1	10.86	116.89	108.20
3	A1	695	A	C5-C6-N1	10.86	123.13	117.70
25	BB	830	G	N1-C2-N3	10.86	130.41	123.90
24	BA	24	G	N1-C6-O6	-10.86	113.39	119.90
25	BB	1562	U	C6-N1-C2	-10.86	114.49	121.00
25	BB	2448	A	C6-C5-N7	10.86	139.90	132.30
25	BB	2507	C	C6-N1-C2	-10.86	115.96	120.30
25	BB	2767	C	N1-C2-O2	10.85	125.41	118.90
1	AP	3	G	C5-C6-N1	10.85	116.93	111.50
3	A1	68	G	C4-C5-C6	-10.85	112.29	118.80
3	A1	1075	U	N3-C2-O2	-10.85	114.61	122.20
37	BN	228	ASP	CB-CG-OD2	10.85	128.07	118.30
3	A1	553	A	C8-N9-C4	-10.85	101.46	105.80
25	BB	941	A	C5-C6-N1	10.85	123.12	117.70
25	BB	2250	G	C4-C5-N7	-10.85	106.46	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	931	C	N3-C4-C5	10.85	126.24	121.90
33	BJ	32	ARG	NE-CZ-NH1	10.85	125.72	120.30
1	AP	35	A	C3'-C2'-C1'	10.85	110.18	101.50
3	A1	1015	G	C5-C6-N1	10.85	116.92	111.50
24	BA	63	C	O4'-C4'-C3'	10.85	114.85	104.00
25	BB	1811	G	N3-C4-C5	-10.85	123.18	128.60
25	BB	578	G	C5-C6-O6	-10.85	122.09	128.60
3	A1	1367	C	N1-C2-O2	10.84	125.41	118.90
3	A1	1421	G	N1-C2-N2	-10.84	106.44	116.20
24	BA	5	U	O4'-C1'-N1	10.84	116.87	108.20
25	BB	662	G	C5-C6-N1	10.84	116.92	111.50
25	BB	1378	A	N1-C6-N6	-10.84	112.10	118.60
25	BB	1572	A	C6-C5-N7	10.84	139.89	132.30
25	BB	1627	G	C8-N9-C4	-10.84	102.06	106.40
25	BB	2754	U	N3-C2-O2	-10.84	114.61	122.20
1	AE	10	G	C4-C5-N7	10.84	115.14	110.80
25	BB	258	G	C4-C5-N7	-10.84	106.47	110.80
3	A1	608	A	C4-C5-C6	-10.84	111.58	117.00
25	BB	327	G	N9-C4-C5	10.84	109.73	105.40
25	BB	2213	U	N3-C2-O2	-10.84	114.61	122.20
25	BB	2264	C	N1-C2-O2	10.84	125.40	118.90
3	A1	951	G	C3'-C2'-C1'	-10.84	92.83	101.50
25	BB	811	U	N3-C2-O2	-10.84	114.62	122.20
25	BB	1812	U	O4'-C1'-N1	10.84	116.87	108.20
25	BB	2701	U	N3-C2-O2	-10.84	114.61	122.20
37	BN	181	ARG	NE-CZ-NH1	-10.84	114.88	120.30
3	A1	640	A	C2-N3-C4	10.83	116.02	110.60
3	A1	1183	U	C4-C5-C6	10.83	126.20	119.70
3	A1	1310	G	N3-C4-C5	-10.83	123.18	128.60
25	BB	630	G	C3'-C2'-C1'	-10.83	92.83	101.50
25	BB	857	G	C5-C6-O6	10.83	135.10	128.60
25	BB	1396	U	C5-C6-N1	-10.83	117.28	122.70
25	BB	1630	A	C5-C6-N1	10.83	123.12	117.70
25	BB	1832	C	C5-C6-N1	-10.83	115.58	121.00
25	BB	2074	U	C1'-O4'-C4'	10.83	118.57	109.90
25	BB	2529	G	C5-C6-N1	10.83	116.92	111.50
25	BB	2792	A	C4-C5-C6	-10.83	111.58	117.00
25	BB	2247	A	C4-C5-C6	-10.83	111.58	117.00
25	BB	197	A	C5-C6-N1	10.83	123.12	117.70
51	B2	114	ARG	NH1-CZ-NH2	-10.83	107.49	119.40
3	A1	1034	G	N1-C6-O6	-10.83	113.40	119.90
3	A1	1477	U	C4-C5-C6	10.83	126.20	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	913	U	C5-C4-O4	10.83	132.40	125.90
25	BB	1929	G	C5'-C4'-O4'	10.83	122.09	109.10
52	B3	151	ARG	NE-CZ-NH1	-10.83	114.89	120.30
3	A1	338	A	C5-C6-N1	10.83	123.11	117.70
3	A1	411	A	N1-C2-N3	-10.83	123.89	129.30
3	A1	440	C	C6-N1-C2	-10.83	115.97	120.30
25	BB	2688	G	N7-C8-N9	10.83	118.51	113.10
3	A1	1147	C	C4'-C3'-C2'	-10.83	91.77	102.60
4	AB	138	ARG	NE-CZ-NH1	10.83	125.71	120.30
25	BB	435	C	O4'-C1'-N1	10.83	116.86	108.20
25	BB	466	A	O4'-C1'-N9	10.83	116.86	108.20
3	A1	628	G	C5-C6-O6	10.82	135.09	128.60
25	BB	954	G	C6-C5-N7	10.82	136.90	130.40
1	AA	70	C	C5-C6-N1	-10.82	115.59	121.00
25	BB	1242	U	N1-C2-N3	10.82	121.39	114.90
3	A1	402	G	C3'-C2'-C1'	10.82	110.16	101.50
25	BB	121	G	N1-C6-O6	-10.82	113.41	119.90
3	A1	919	A	C5-C6-N1	10.82	123.11	117.70
25	BB	1637	A	C4-C5-C6	-10.82	111.59	117.00
25	BB	1354	A	C6-C5-N7	10.82	139.87	132.30
3	A1	149	A	C5-C6-N1	10.81	123.11	117.70
3	A1	1257	A	O4'-C1'-C2'	-10.81	94.98	105.80
25	BB	1190	G	N7-C8-N9	-10.81	107.69	113.10
3	A1	319	G	C5-C6-N1	10.81	116.91	111.50
25	BB	1378	A	O4'-C1'-C2'	-10.81	94.99	105.80
25	BB	2266	A	N1-C6-N6	-10.81	112.11	118.60
25	BB	118	A	C3'-C2'-C1'	-10.81	92.85	101.50
25	BB	2458	G	N9-C4-C5	-10.81	101.08	105.40
3	A1	950	U	C5-C4-O4	10.81	132.38	125.90
25	BB	2580	U	C1'-O4'-C4'	-10.81	101.26	109.90
3	A1	351	G	C5-C6-N1	10.80	116.90	111.50
3	A1	415	A	C1'-O4'-C4'	-10.80	101.26	109.90
3	A1	844	G	C5'-C4'-O4'	10.80	122.06	109.10
25	BB	757	G	C4-C5-C6	-10.80	112.32	118.80
3	A1	776	G	C6-C5-N7	10.80	136.88	130.40
25	BB	579	G	C5-C6-N1	10.80	116.90	111.50
25	BB	1956	U	O4'-C1'-N1	10.80	116.84	108.20
25	BB	2003	A	C5-C6-N6	10.80	132.34	123.70
25	BB	2874	C	N1-C2-O2	10.80	125.38	118.90
3	A1	945	G	N3-C4-C5	-10.80	123.20	128.60
33	BJ	63	ARG	NE-CZ-NH2	-10.80	114.90	120.30
3	A1	80	A	N1-C6-N6	-10.80	112.12	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	698	G	C5-C6-N1	10.80	116.90	111.50
3	A1	1220	G	C5-N7-C8	-10.80	98.90	104.30
3	A1	1511	G	C5-N7-C8	-10.80	98.90	104.30
25	BB	580	U	N1-C2-N3	10.80	121.38	114.90
25	BB	2686	G	N3-C4-C5	-10.80	123.20	128.60
25	BB	1001	A	C4-C5-C6	-10.80	111.60	117.00
39	BP	10	ARG	NE-CZ-NH2	10.80	125.70	120.30
3	A1	1120	C	N3-C4-C5	10.79	126.22	121.90
3	A1	1302	C	C5-C6-N1	-10.80	115.60	121.00
25	BB	275	C	O4'-C1'-N1	10.80	116.84	108.20
25	BB	318	C	N3-C4-C5	10.80	126.22	121.90
25	BB	690	G	C8-N9-C4	-10.79	102.08	106.40
25	BB	911	A	O4'-C1'-N9	10.79	116.83	108.20
25	BB	1017	G	N3-C4-N9	10.79	132.48	126.00
1	AE	39	U	N3-C2-O2	-10.79	114.64	122.20
3	A1	1445	U	C5'-C4'-O4'	10.79	122.05	109.10
25	BB	816	C	C2-N3-C4	-10.79	114.50	119.90
3	A1	1207	G	C4-C5-N7	-10.79	106.48	110.80
3	A1	34	C	N1-C2-O2	10.79	125.37	118.90
3	A1	475	C	N3-C2-O2	-10.79	114.35	121.90
25	BB	1969	A	N1-C6-N6	-10.79	112.13	118.60
25	BB	2186	G	C6-N1-C2	-10.79	118.63	125.10
25	BB	1388	G	N9-C1'-C2'	-10.79	99.98	114.00
3	A1	390	U	C1'-O4'-C4'	-10.79	101.27	109.90
3	A1	828	U	O4'-C1'-N1	10.79	116.83	108.20
3	A1	1480	A	C4-C5-C6	-10.79	111.61	117.00
25	BB	2269	G	C6-N1-C2	-10.79	118.63	125.10
3	A1	752	G	C4-C5-N7	-10.78	106.49	110.80
25	BB	2510	C	C4-C5-C6	-10.78	112.01	117.40
25	BB	2532	G	N9-C4-C5	10.79	109.71	105.40
3	A1	523	A	C4-C5-C6	-10.78	111.61	117.00
3	A1	585	G	C5-N7-C8	-10.78	98.91	104.30
3	A1	1092	A	C5-N7-C8	-10.78	98.51	103.90
21	AV	87	ARG	NE-CZ-NH2	-10.78	114.91	120.30
25	BB	2456	C	O4'-C1'-N1	10.78	116.83	108.20
3	A1	1061	G	N1-C6-O6	-10.78	113.43	119.90
25	BB	1722	A	C4-C5-C6	-10.78	111.61	117.00
3	A1	136	C	N1-C2-O2	10.78	125.37	118.90
3	A1	893	C	N3-C2-O2	-10.78	114.36	121.90
25	BB	146	A	N9-C4-C5	10.78	110.11	105.80
25	BB	2088	A	C4-C5-C6	-10.78	111.61	117.00
25	BB	2640	G	C1'-O4'-C4'	-10.78	101.28	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	461	A	N1-C6-N6	-10.78	112.13	118.60
25	BB	647	G	N1-C2-N3	10.78	130.37	123.90
3	A1	1064	G	C5-C6-O6	10.78	135.06	128.60
8	AG	89	ARG	NE-CZ-NH2	10.78	125.69	120.30
25	BB	152	A	C4-C5-C6	-10.78	111.61	117.00
25	BB	623	C	N1-C2-O2	10.78	125.37	118.90
25	BB	912	C	N3-C4-N4	-10.78	110.46	118.00
25	BB	1875	G	C8-N9-C4	-10.78	102.09	106.40
3	A1	806	C	N3-C2-O2	-10.77	114.36	121.90
25	BB	1967	C	O4'-C1'-N1	10.77	116.82	108.20
3	A1	627	G	N1-C6-O6	-10.77	113.44	119.90
25	BB	1479	G	N9-C4-C5	-10.77	101.09	105.40
25	BB	2037	A	N7-C8-N9	10.77	119.19	113.80
25	BB	2212	A	C4-C5-C6	-10.77	111.61	117.00
25	BB	1796	U	C5-C6-N1	-10.77	117.31	122.70
1	AA	62	A	C8-N9-C4	-10.77	101.49	105.80
25	BB	32	C	N3-C4-C5	10.77	126.21	121.90
25	BB	641	U	C5-C4-O4	-10.77	119.44	125.90
25	BB	2104	C	O4'-C1'-N1	10.77	116.82	108.20
1	AE	35	A	C4-C5-N7	10.77	116.08	110.70
3	A1	38	G	C4-C5-N7	-10.77	106.49	110.80
3	A1	194	C	C6-N1-C2	-10.77	115.99	120.30
25	BB	1826	G	N1-C2-N3	10.77	130.36	123.90
25	BB	2144	G	C6-C5-N7	10.77	136.86	130.40
2	AM	19	U	N3-C2-O2	-10.77	114.66	122.20
1	AP	71	G	N1-C6-O6	-10.77	113.44	119.90
3	A1	324	G	C6-C5-N7	-10.77	123.94	130.40
25	BB	1765	U	C5-C6-N1	-10.77	117.32	122.70
24	BA	15	A	C5-N7-C8	-10.76	98.52	103.90
3	A1	1041	G	C5-C6-N1	10.76	116.88	111.50
25	BB	1191	G	C5-C6-N1	10.76	116.88	111.50
25	BB	1227	G	N9-C4-C5	10.76	109.70	105.40
45	BV	28	ARG	NE-CZ-NH1	10.76	125.68	120.30
1	AP	47	U	O4'-C1'-N1	10.76	116.81	108.20
24	BA	106	G	C5-N7-C8	-10.76	98.92	104.30
3	A1	933	G	N3-C4-C5	10.76	133.98	128.60
3	A1	973	G	N3-C4-N9	10.76	132.46	126.00
25	BB	596	U	O4'-C1'-N1	10.76	116.81	108.20
25	BB	710	U	C5-C4-O4	-10.76	119.44	125.90
25	BB	1669	A	C5-C6-N1	10.76	123.08	117.70
25	BB	2395	C	C2-N3-C4	-10.76	114.52	119.90
25	BB	184	C	N3-C2-O2	-10.76	114.37	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2062	A	C8-N9-C4	10.76	110.10	105.80
3	A1	727	G	C6-C5-N7	10.76	136.85	130.40
3	A1	1521	C	N1-C2-O2	10.76	125.35	118.90
25	BB	97	C	N1-C2-O2	10.76	125.35	118.90
25	BB	269	C	C2-N3-C4	-10.76	114.52	119.90
25	BB	489	G	N1-C2-N3	10.76	130.35	123.90
25	BB	2164	C	N3-C2-O2	-10.76	114.37	121.90
25	BB	2482	A	C5-C6-N1	10.76	123.08	117.70
25	BB	84	A	C6-C5-N7	10.75	139.83	132.30
25	BB	1301	A	N1-C6-N6	-10.75	112.15	118.60
25	BB	2786	U	N3-C2-O2	-10.75	114.67	122.20
25	BB	2899	A	C2-N3-C4	-10.75	105.22	110.60
25	BB	1687	G	C4-C5-N7	-10.75	106.50	110.80
3	A1	851	G	C6-N1-C2	-10.75	118.65	125.10
3	A1	1374	A	O4'-C1'-N9	10.75	116.80	108.20
25	BB	876	C	O4'-C1'-N1	10.75	116.80	108.20
25	BB	1433	A	C6-C5-N7	10.75	139.82	132.30
25	BB	2253	G	O4'-C4'-C3'	10.75	114.75	104.00
3	A1	1031	C	N3-C4-N4	-10.75	110.48	118.00
25	BB	1020	A	N7-C8-N9	-10.75	108.43	113.80
25	BB	1691	C	N3-C2-O2	-10.75	114.38	121.90
25	BB	164	C	N3-C2-O2	-10.75	114.38	121.90
25	BB	2095	A	C5-C6-N1	10.75	123.07	117.70
1	AA	30	G	C2-N3-C4	-10.74	106.53	111.90
1	AA	37	G	C8-N9-C4	-10.74	102.10	106.40
3	A1	14	U	O4'-C1'-N1	10.74	116.80	108.20
3	A1	1140	C	C2-N3-C4	-10.74	114.53	119.90
25	BB	625	G	N3-C4-C5	-10.74	123.23	128.60
1	AE	11	C	C5-C6-N1	-10.74	115.63	121.00
3	A1	725	G	C4-C5-N7	-10.74	106.50	110.80
3	A1	884	U	O4'-C1'-N1	10.74	116.80	108.20
25	BB	278	A	C8-N9-C4	-10.74	101.50	105.80
25	BB	352	A	N7-C8-N9	10.74	119.17	113.80
25	BB	1623	G	N9-C4-C5	10.74	109.70	105.40
25	BB	1724	G	N1-C6-O6	-10.74	113.45	119.90
25	BB	1592	C	N3-C4-N4	-10.74	110.48	118.00
3	A1	1137	C	N3-C2-O2	-10.74	114.38	121.90
3	A1	1372	U	N1-C2-N3	10.74	121.34	114.90
25	BB	157	C	N3-C4-C5	10.74	126.20	121.90
3	A1	909	A	C2-N3-C4	10.74	115.97	110.60
25	BB	1112	G	C6-N1-C2	-10.74	118.66	125.10
25	BB	2671	G	N3-C4-C5	-10.74	123.23	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	237	G	C5-N7-C8	-10.73	98.93	104.30
25	BB	1603	A	N1-C2-N3	-10.73	123.93	129.30
25	BB	2542	A	N1-C6-N6	-10.73	112.16	118.60
4	AB	207	ARG	NE-CZ-NH1	10.73	125.67	120.30
25	BB	110	G	C5-N7-C8	-10.73	98.93	104.30
25	BB	930	G	C2-N3-C4	10.73	117.27	111.90
25	BB	1587	G	N1-C6-O6	-10.73	113.46	119.90
3	A1	1112	C	O4'-C1'-N1	10.73	116.78	108.20
25	BB	2190	G	N7-C8-N9	10.73	118.47	113.10
25	BB	153	U	N3-C2-O2	-10.73	114.69	122.20
25	BB	972	A	C4-C5-C6	-10.73	111.64	117.00
25	BB	2834	G	N3-C4-C5	-10.73	123.24	128.60
3	A1	482	A	C4-C5-C6	-10.72	111.64	117.00
3	A1	1251	A	C4-C5-C6	-10.72	111.64	117.00
24	BA	110	C	C4-C5-C6	-10.72	112.04	117.40
25	BB	2715	C	N3-C2-O2	-10.72	114.39	121.90
3	A1	940	C	N3-C4-C5	10.72	126.19	121.90
25	BB	513	A	C6-C5-N7	10.72	139.81	132.30
25	BB	706	A	N1-C2-N3	-10.72	123.94	129.30
25	BB	793	A	O4'-C1'-N9	10.72	116.78	108.20
25	BB	1071	G	C6-N1-C2	-10.72	118.67	125.10
25	BB	2262	U	C4-C5-C6	10.72	126.13	119.70
25	BB	2279	G	C6-N1-C2	-10.72	118.67	125.10
25	BB	748	G	O4'-C1'-N9	10.72	116.78	108.20
25	BB	1690	A	C8-N9-C4	-10.72	101.51	105.80
3	A1	116	A	O4'-C4'-C3'	10.72	114.72	104.00
3	A1	1035	A	C5-C6-N1	10.72	123.06	117.70
3	A1	1342	C	N1-C2-O2	10.72	125.33	118.90
25	BB	921	C	N1-C2-O2	10.72	125.33	118.90
25	BB	1017	G	N1-C6-O6	-10.72	113.47	119.90
25	BB	1982	U	O4'-C4'-C3'	10.72	114.72	104.00
43	BT	39	ARG	NE-CZ-NH2	10.72	125.66	120.30
3	A1	832	G	N1-C6-O6	-10.71	113.47	119.90
5	AC	68	ARG	NH1-CZ-NH2	-10.71	107.61	119.40
25	BB	1586	A	C8-N9-C4	10.72	110.09	105.80
25	BB	1875	G	N1-C2-N3	10.72	130.33	123.90
25	BB	2454	G	N1-C6-O6	-10.72	113.47	119.90
3	A1	703	G	N1-C2-N3	10.71	130.33	123.90
25	BB	1474	U	C5-C4-O4	-10.71	119.47	125.90
3	A1	857	C	C2-N3-C4	-10.71	114.55	119.90
3	A1	1076	U	C5-C6-N1	-10.71	117.34	122.70
1	AE	17	U	N3-C2-O2	-10.71	114.70	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	642	A	C6-N1-C2	-10.71	112.17	118.60
3	A1	1525	G	N1-C6-O6	-10.71	113.48	119.90
25	BB	1071	G	N1-C6-O6	-10.71	113.48	119.90
3	A1	712	A	C5-C6-N1	10.70	123.05	117.70
3	A1	1377	A	C5-N7-C8	-10.70	98.55	103.90
25	BB	789	A	C4-C5-C6	-10.70	111.65	117.00
25	BB	926	G	N1-C6-O6	-10.70	113.48	119.90
3	A1	42	G	N1-C6-O6	-10.70	113.48	119.90
25	BB	6	A	N1-C2-N3	-10.70	123.95	129.30
1	AP	43	G	O4'-C1'-N9	10.70	116.76	108.20
3	A1	600	A	C6-C5-N7	10.70	139.79	132.30
25	BB	272	A	C4-C5-C6	-10.70	111.65	117.00
25	BB	824	U	C4-C5-C6	10.70	126.12	119.70
1	AP	30	G	C5-C6-N1	10.70	116.85	111.50
3	A1	943	U	C1'-O4'-C4'	-10.70	101.34	109.90
25	BB	1583	A	C5-C6-N6	10.70	132.26	123.70
3	A1	32	A	N1-C2-N3	-10.70	123.95	129.30
3	A1	408	A	N9-C4-C5	10.70	110.08	105.80
25	BB	1937	A	C6-C5-N7	10.70	139.79	132.30
25	BB	2502	G	N3-C4-C5	-10.70	123.25	128.60
25	BB	867	C	C2-N3-C4	-10.70	114.55	119.90
25	BB	966	G	C4-C5-N7	-10.70	106.52	110.80
25	BB	194	G	O4'-C1'-N9	10.69	116.75	108.20
25	BB	1354	A	C4-C5-C6	-10.69	111.65	117.00
25	BB	1542	U	O4'-C1'-N1	10.69	116.75	108.20
3	A1	1337	G	O4'-C1'-N9	10.69	116.75	108.20
25	BB	121	G	C5-N7-C8	-10.69	98.95	104.30
3	A1	1240	U	C3'-C2'-C1'	-10.69	92.95	101.50
1	AA	48	C	C5-C6-N1	-10.69	115.66	121.00
3	A1	632	U	O4'-C4'-C3'	10.69	114.69	104.00
25	BB	2515	C	N3-C4-C5	10.69	126.17	121.90
25	BB	2739	U	O4'-C1'-N1	10.69	116.75	108.20
25	BB	2049	G	C3'-C2'-C1'	10.69	110.05	101.50
8	AG	52	ARG	NE-CZ-NH1	10.68	125.64	120.30
25	BB	2428	G	C4-C5-N7	-10.68	106.53	110.80
3	A1	128	G	C5-C6-N1	10.68	116.84	111.50
3	A1	373	A	C6-C5-N7	10.68	139.78	132.30
3	A1	931	C	C2-N3-C4	-10.68	114.56	119.90
24	BA	21	G	C4-C5-N7	10.68	115.07	110.80
25	BB	2894	G	N3-C2-N2	-10.68	112.42	119.90
3	A1	280	C	O4'-C1'-N1	10.68	116.74	108.20
3	A1	1289	A	C5-C6-N1	10.68	123.04	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1929	G	C8-N9-C4	-10.68	102.13	106.40
3	A1	292	G	N1-C6-O6	-10.68	113.49	119.90
25	BB	258	G	N1-C6-O6	-10.68	113.49	119.90
25	BB	992	C	C6-N1-C2	-10.68	116.03	120.30
25	BB	1444	G	C6-C5-N7	10.68	136.81	130.40
25	BB	1721	G	O4'-C4'-C3'	10.68	114.68	104.00
25	BB	1912	A	C4-C5-C6	-10.68	111.66	117.00
25	BB	2252	G	N1-C6-O6	-10.68	113.49	119.90
25	BB	2625	G	O4'-C1'-N9	10.68	116.74	108.20
1	AE	5	A	N1-C6-N6	-10.68	112.19	118.60
3	A1	929	G	N3-C4-N9	-10.68	119.59	126.00
25	BB	486	C	N3-C4-C5	10.68	126.17	121.90
25	BB	489	G	C6-N1-C2	-10.68	118.69	125.10
25	BB	984	A	O4'-C1'-N9	10.68	116.74	108.20
25	BB	1394	U	O4'-C1'-N1	10.68	116.74	108.20
25	BB	2454	G	C5-C6-N1	10.68	116.84	111.50
38	BO	81	ARG	NE-CZ-NH1	10.68	125.64	120.30
1	AE	57	G	N3-C2-N2	-10.67	112.43	119.90
3	A1	777	A	C5-N7-C8	-10.67	98.56	103.90
25	BB	108	G	O4'-C4'-C3'	10.67	114.67	104.00
25	BB	671	C	C5-C6-N1	-10.67	115.66	121.00
25	BB	2751	G	N1-C6-O6	-10.67	113.50	119.90
45	BV	41	ARG	NE-CZ-NH2	10.67	125.64	120.30
3	A1	14	U	C4-C5-C6	10.67	126.10	119.70
1	AE	17	U	C5-C6-N1	-10.67	117.37	122.70
25	BB	359	G	N1-C2-N3	10.67	130.30	123.90
25	BB	1431	A	C1'-O4'-C4'	-10.67	101.36	109.90
3	A1	1417	G	O4'-C1'-N9	10.67	116.73	108.20
3	A1	1519	A	N1-C6-N6	-10.67	112.20	118.60
3	A1	584	G	N9-C4-C5	10.66	109.67	105.40
3	A1	901	A	C5-N7-C8	-10.66	98.57	103.90
25	BB	1866	A	N1-C2-N3	-10.66	123.97	129.30
3	A1	406	G	N1-C6-O6	-10.66	113.50	119.90
3	A1	886	G	N1-C2-N3	10.66	130.30	123.90
3	A1	1241	G	N3-C4-C5	-10.66	123.27	128.60
25	BB	1562	U	N1-C2-N3	10.66	121.30	114.90
3	A1	1223	C	N3-C4-C5	10.66	126.17	121.90
25	BB	270	A	C6-N1-C2	-10.66	112.20	118.60
25	BB	2516	A	C5-C6-N1	10.66	123.03	117.70
3	A1	844	G	N1-C6-O6	-10.66	113.50	119.90
3	A1	1180	A	N9-C4-C5	10.66	110.06	105.80
25	BB	444	C	N3-C2-O2	-10.66	114.44	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	341	C	N3-C2-O2	-10.66	114.44	121.90
25	BB	796	C	C2-N3-C4	-10.66	114.57	119.90
3	A1	696	A	C5-C6-N1	10.66	123.03	117.70
25	BB	543	G	C2-N3-C4	10.66	117.23	111.90
3	A1	521	G	O4'-C1'-N9	-10.66	99.68	108.20
25	BB	673	C	O4'-C1'-N1	10.66	116.72	108.20
25	BB	1009	A	C2-N3-C4	10.66	115.93	110.60
25	BB	1714	U	C1'-O4'-C4'	-10.66	101.37	109.90
25	BB	1724	G	C4-C5-C6	-10.66	112.41	118.80
25	BB	2741	A	C5-C6-N1	10.66	123.03	117.70
3	A1	1371	G	C5-C6-N1	10.65	116.83	111.50
19	AT	45	ARG	NE-CZ-NH1	10.65	125.63	120.30
25	BB	1330	C	C5-C6-N1	-10.65	115.67	121.00
25	BB	1493	C	N3-C4-N4	-10.65	110.54	118.00
25	BB	1626	A	C5-C6-N1	10.65	123.03	117.70
25	BB	1925	C	C2-N3-C4	-10.65	114.57	119.90
3	A1	967	C	C6-N1-C2	-10.65	116.04	120.30
25	BB	75	G	C5-N7-C8	-10.65	98.98	104.30
25	BB	558	U	N1-C2-N3	10.65	121.29	114.90
25	BB	1134	A	N7-C8-N9	10.65	119.12	113.80
25	BB	1494	A	C5-C6-N6	10.65	132.22	123.70
25	BB	1756	G	C5-C6-N1	10.65	116.82	111.50
3	A1	827	U	N3-C2-O2	-10.65	114.75	122.20
25	BB	293	U	C5-C6-N1	-10.65	117.38	122.70
25	BB	1705	A	C5-C6-N6	10.65	132.22	123.70
25	BB	2143	C	C4-C5-C6	10.65	122.72	117.40
25	BB	1915	U	N1-C2-N3	10.64	121.29	114.90
3	A1	18	C	C4-C5-C6	-10.64	112.08	117.40
3	A1	592	G	N3-C2-N2	-10.64	112.45	119.90
3	A1	1067	A	N1-C6-N6	-10.64	112.21	118.60
3	A1	1270	G	C6-N1-C2	-10.64	118.71	125.10
24	BA	93	C	N3-C4-C5	10.64	126.16	121.90
25	BB	680	C	N3-C4-C5	10.64	126.16	121.90
25	BB	965	C	C4-C5-C6	-10.64	112.08	117.40
25	BB	1476	U	O4'-C4'-C3'	-10.64	93.36	104.00
33	BJ	57	ARG	NE-CZ-NH2	10.64	125.62	120.30
24	BA	30	C	N3-C4-N4	-10.64	110.55	118.00
25	BB	275	C	C5-C6-N1	-10.64	115.68	121.00
25	BB	446	G	N1-C6-O6	-10.64	113.52	119.90
25	BB	787	C	N3-C4-N4	-10.64	110.55	118.00
25	BB	1666	G	C8-N9-C4	-10.64	102.14	106.40
3	A1	162	A	C5-C6-N1	10.64	123.02	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1329	A	C5-C6-N1	10.64	123.02	117.70
3	A1	475	C	N1-C2-N3	10.64	126.65	119.20
25	BB	216	A	C4-C5-C6	-10.64	111.68	117.00
25	BB	1262	A	C1'-O4'-C4'	-10.64	101.39	109.90
25	BB	2700	A	N9-C4-C5	-10.64	101.54	105.80
25	BB	2506	U	N3-C4-C5	-10.64	108.22	114.60
3	A1	10	A	C1'-O4'-C4'	-10.63	101.39	109.90
3	A1	415	A	C5-C6-N1	10.63	123.02	117.70
25	BB	1211	C	N3-C4-N4	-10.63	110.56	118.00
25	BB	1714	U	O4'-C1'-N1	10.63	116.71	108.20
25	BB	2444	G	C8-N9-C4	-10.64	102.15	106.40
25	BB	2849	U	C5-C6-N1	-10.63	117.38	122.70
3	A1	127	G	C6-C5-N7	10.63	136.78	130.40
3	A1	410	G	N3-C4-C5	-10.63	123.28	128.60
3	A1	1087	G	N1-C6-O6	-10.63	113.52	119.90
3	A1	824	G	C4-C5-N7	-10.63	106.55	110.80
3	A1	1129	C	N3-C2-O2	-10.63	114.46	121.90
3	A1	1210	C	C3'-C2'-C1'	10.63	110.01	101.50
25	BB	2554	U	N3-C2-O2	-10.63	114.76	122.20
3	A1	1515	G	N3-C2-N2	-10.63	112.46	119.90
25	BB	474	G	N3-C4-C5	-10.63	123.28	128.60
1	AP	20	G	N1-C6-O6	-10.63	113.52	119.90
25	BB	735	A	C5-C6-N1	10.63	123.02	117.70
25	BB	2064	C	N3-C4-N4	-10.63	110.56	118.00
25	BB	2517	C	N1-C2-O2	10.63	125.28	118.90
25	BB	2761	A	O4'-C1'-N9	10.63	116.70	108.20
25	BB	885	C	N3-C2-O2	-10.63	114.46	121.90
25	BB	2082	A	N1-C6-N6	-10.63	112.22	118.60
1	AP	53	G	O4'-C1'-N9	10.62	116.70	108.20
3	A1	21	G	C4-C5-N7	-10.62	106.55	110.80
25	BB	1143	A	C4-C5-C6	-10.62	111.69	117.00
2	AM	6	U	C6-N1-C2	-10.62	114.63	121.00
3	A1	128	G	C2-N3-C4	-10.62	106.59	111.90
12	AK	52	ARG	NE-CZ-NH1	10.62	125.61	120.30
25	BB	1115	G	C4-C5-N7	10.62	115.05	110.80
25	BB	1331	G	N3-C4-C5	-10.62	123.29	128.60
25	BB	1376	C	C6-N1-C2	-10.62	116.05	120.30
3	A1	397	A	C2-N3-C4	10.62	115.91	110.60
3	A1	922	G	C5-C6-N1	10.62	116.81	111.50
25	BB	636	G	C5-C6-N1	10.62	116.81	111.50
25	BB	1566	A	C5-C6-N1	10.62	123.01	117.70
25	BB	1687	G	C6-C5-N7	10.62	136.77	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1849	G	N1-C2-N3	10.62	130.27	123.90
25	BB	2550	G	N1-C2-N3	10.62	130.27	123.90
25	BB	1653	G	C4-C5-N7	-10.62	106.55	110.80
3	A1	672	U	O4'-C1'-N1	10.62	116.69	108.20
3	A1	1105	A	O4'-C1'-C2'	10.62	117.15	107.60
24	BA	45	A	C6-N1-C2	-10.62	112.23	118.60
25	BB	1932	A	C6-C5-N7	10.61	139.73	132.30
25	BB	2244	U	N3-C2-O2	-10.62	114.77	122.20
25	BB	2338	C	C5-C6-N1	-10.62	115.69	121.00
25	BB	2268	A	C4-C5-C6	-10.61	111.69	117.00
25	BB	2824	C	N3-C2-O2	-10.61	114.47	121.90
1	AA	43	G	C5-C6-N1	10.61	116.81	111.50
3	A1	348	G	N7-C8-N9	10.61	118.41	113.10
25	BB	199	A	C5-C6-N6	10.61	132.19	123.70
25	BB	2547	A	C6-N1-C2	-10.61	112.23	118.60
25	BB	2769	U	C4-C5-C6	10.61	126.07	119.70
3	A1	561	U	C6-N1-C2	-10.61	114.64	121.00
25	BB	1388	G	N3-C2-N2	-10.61	112.47	119.90
25	BB	1949	G	C2-N3-C4	10.61	117.20	111.90
1	AA	39	U	N1-C2-N3	10.61	121.26	114.90
25	BB	2896	C	N1-C2-N3	10.61	126.62	119.20
3	A1	1360	A	N7-C8-N9	10.61	119.10	113.80
25	BB	2621	G	C3'-C2'-C1'	-10.61	93.02	101.50
3	A1	1004	A	O4'-C1'-C2'	-10.60	95.20	105.80
3	A1	1221	G	N3-C4-C5	-10.60	123.30	128.60
24	BA	12	C	N3-C4-N4	-10.60	110.58	118.00
25	BB	2721	A	N1-C6-N6	-10.60	112.24	118.60
25	BB	415	A	O4'-C4'-C3'	-10.60	93.40	104.00
25	BB	1322	A	O4'-C1'-N9	10.60	116.68	108.20
25	BB	2253	G	C6-N1-C2	-10.60	118.74	125.10
25	BB	1608	A	C4-C5-C6	-10.60	111.70	117.00
25	BB	2138	G	N3-C4-C5	-10.60	123.30	128.60
25	BB	302	C	C2-N3-C4	-10.60	114.60	119.90
25	BB	49	A	O4'-C1'-N9	10.60	116.68	108.20
25	BB	689	A	C5-C6-N1	10.60	123.00	117.70
25	BB	2253	G	N1-C2-N3	10.60	130.26	123.90
3	A1	269	C	N3-C4-C5	10.60	126.14	121.90
3	A1	808	C	C2-N3-C4	-10.60	114.60	119.90
25	BB	315	G	C5-C6-O6	10.60	134.96	128.60
25	BB	384	A	C5-C6-N1	10.60	123.00	117.70
25	BB	538	A	N1-C6-N6	-10.60	112.24	118.60
25	BB	1989	G	C4-C5-N7	-10.60	106.56	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	64	G	C8-N9-C4	-10.59	102.16	106.40
3	A1	1101	A	N9-C4-C5	-10.59	101.56	105.80
3	A1	1450	U	O4'-C1'-N1	10.59	116.67	108.20
25	BB	153	U	N1-C2-N3	10.59	121.26	114.90
25	BB	2300	C	N3-C2-O2	-10.59	114.48	121.90
25	BB	1621	U	O4'-C1'-N1	10.59	116.67	108.20
3	A1	198	G	C5-N7-C8	10.59	109.59	104.30
17	AR	61	ARG	NE-CZ-NH1	10.59	125.59	120.30
25	BB	1482	G	C8-N9-C4	-10.59	102.17	106.40
25	BB	2523	G	N9-C4-C5	10.59	109.64	105.40
3	A1	139	A	C4-C5-C6	-10.59	111.71	117.00
25	BB	1299	G	C5-C6-O6	10.59	134.95	128.60
25	BB	1782	U	N3-C2-O2	-10.59	114.79	122.20
25	BB	2205	A	N1-C6-N6	-10.59	112.25	118.60
25	BB	2537	U	C3'-C2'-C1'	10.59	109.97	101.50
3	A1	207	C	O4'-C1'-N1	10.58	116.67	108.20
25	BB	2751	G	N3-C4-C5	-10.58	123.31	128.60
3	A1	1501	C	N3-C4-C5	10.58	126.13	121.90
24	BA	9	G	C8-N9-C4	-10.58	102.17	106.40
24	BA	51	G	C5-C6-N1	10.58	116.79	111.50
25	BB	1036	G	O4'-C4'-C3'	-10.58	93.42	104.00
25	BB	1708	C	N3-C2-O2	-10.58	114.50	121.90
25	BB	1739	A	O4'-C1'-C2'	10.58	117.12	107.60
25	BB	1933	G	N1-C6-O6	-10.58	113.55	119.90
25	BB	2148	G	N3-C4-C5	-10.58	123.31	128.60
25	BB	2204	G	C8-N9-C4	-10.58	102.17	106.40
3	A1	501	C	N3-C2-O2	-10.58	114.50	121.90
25	BB	453	A	C8-N9-C4	-10.58	101.57	105.80
25	BB	2490	G	N1-C6-O6	-10.58	113.56	119.90
1	AP	9	A	N7-C8-N9	10.57	119.09	113.80
1	AE	60	C	N1-C2-O2	10.57	125.25	118.90
3	A1	491	G	N1-C6-O6	-10.57	113.56	119.90
3	A1	1518	A	N1-C6-N6	-10.57	112.25	118.60
25	BB	2042	A	C5-C6-N6	10.57	132.16	123.70
25	BB	2858	C	N1-C1'-C2'	10.57	127.75	114.00
3	A1	811	C	C5-C6-N1	-10.57	115.71	121.00
25	BB	1368	G	N3-C4-C5	-10.57	123.31	128.60
3	A1	948	C	N1-C2-O2	10.57	125.24	118.90
1	AA	31	A	C5'-C4'-O4'	10.57	121.78	109.10
25	BB	694	U	C5'-C4'-O4'	10.57	121.79	109.10
25	BB	844	A	C5-C6-N1	10.57	122.99	117.70
3	A1	1339	A	O4'-C1'-N9	10.57	116.66	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	81	G	C6-N1-C2	-10.57	118.76	125.10
25	BB	213	A	N7-C8-N9	10.57	119.08	113.80
25	BB	800	A	C4-C5-C6	-10.57	111.72	117.00
25	BB	2553	G	C2-N3-C4	10.57	117.19	111.90
25	BB	2069	G	O4'-C1'-N9	10.57	116.65	108.20
25	BB	2674	G	N1-C2-N3	10.57	130.24	123.90
3	A1	560	A	N1-C6-N6	-10.57	112.26	118.60
3	A1	677	U	N3-C4-O4	10.57	126.80	119.40
25	BB	2890	G	C5'-C4'-O4'	10.57	121.78	109.10
24	BA	7	G	N3-C2-N2	-10.57	112.50	119.90
24	BA	69	G	C6-N1-C2	-10.57	118.76	125.10
25	BB	1775	U	O4'-C1'-N1	10.57	116.65	108.20
3	A1	729	A	C5-C6-N1	10.56	122.98	117.70
25	BB	558	U	N3-C4-O4	10.56	126.80	119.40
25	BB	1611	C	O4'-C1'-N1	10.56	116.65	108.20
25	BB	2802	G	C5-C6-N1	10.56	116.78	111.50
3	A1	367	U	N3-C2-O2	-10.56	114.81	122.20
25	BB	514	A	N1-C6-N6	-10.56	112.26	118.60
25	BB	861	A	N1-C6-N6	-10.56	112.26	118.60
25	BB	1325	U	N3-C2-O2	-10.56	114.81	122.20
25	BB	2377	A	C5'-C4'-O4'	10.56	121.78	109.10
1	AE	15	G	O4'-C1'-N9	10.56	116.65	108.20
1	AA	17	U	C6-N1-C2	-10.56	114.67	121.00
24	BA	118	C	C5-C4-N4	-10.56	112.81	120.20
25	BB	578	G	N7-C8-N9	10.56	118.38	113.10
25	BB	1263	U	C3'-C2'-C1'	-10.56	93.05	101.50
25	BB	1853	A	C4-C5-C6	-10.56	111.72	117.00
25	BB	2161	C	C4-C5-C6	10.56	122.68	117.40
3	A1	199	A	C1'-O4'-C4'	-10.56	101.46	109.90
3	A1	880	C	N3-C2-O2	-10.55	114.51	121.90
25	BB	63	A	C2-N3-C4	10.55	115.88	110.60
25	BB	83	A	C5-C6-N1	10.55	122.98	117.70
25	BB	601	C	C3'-C2'-C1'	10.56	109.94	101.50
25	BB	1450	G	N9-C4-C5	10.55	109.62	105.40
1	AA	37	G	N9-C4-C5	10.55	109.62	105.40
25	BB	769	U	C5-C6-N1	-10.55	117.42	122.70
25	BB	2856	A	C5-C6-N1	10.55	122.98	117.70
1	AA	16	U	C5'-C4'-O4'	10.55	121.76	109.10
3	A1	82	G	C5-C6-N1	10.55	116.78	111.50
3	A1	1054	C	N1-C2-O2	10.55	125.23	118.90
3	A1	802	A	N1-C2-N3	10.55	134.57	129.30
25	BB	2114	A	C4-C5-C6	-10.55	111.72	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2709	G	C8-N9-C4	-10.55	102.18	106.40
1	AP	30	G	C8-N9-C4	-10.55	102.18	106.40
3	A1	1251	A	N1-C6-N6	-10.55	112.27	118.60
3	A1	488	C	N3-C4-N4	-10.55	110.62	118.00
3	A1	1335	U	C5'-C4'-O4'	10.55	121.76	109.10
3	A1	1397	C	C6-N1-C2	-10.55	116.08	120.30
25	BB	137	U	N3-C4-C5	10.55	120.93	114.60
25	BB	661	A	N1-C6-N6	-10.55	112.27	118.60
25	BB	862	G	C5-C6-N1	10.55	116.77	111.50
25	BB	964	C	N1-C2-O2	10.55	125.23	118.90
25	BB	1441	G	C5-C6-N1	10.55	116.77	111.50
1	AA	21	A	C5-N7-C8	-10.54	98.63	103.90
3	A1	755	G	N7-C8-N9	10.55	118.37	113.10
3	A1	732	C	N3-C2-O2	-10.54	114.52	121.90
3	A1	733	G	C8-N9-C4	-10.54	102.18	106.40
3	A1	847	G	N7-C8-N9	10.54	118.37	113.10
25	BB	1206	G	N3-C4-C5	-10.54	123.33	128.60
25	BB	1819	A	C6-C5-N7	10.55	139.68	132.30
25	BB	1595	C	O4'-C1'-N1	10.54	116.64	108.20
25	BB	1936	A	C8-N9-C4	10.54	110.02	105.80
25	BB	2666	C	N3-C4-C5	10.54	126.12	121.90
3	A1	1060	U	C2-N3-C4	-10.54	120.67	127.00
25	BB	209	C	N1-C2-N3	10.54	126.58	119.20
25	BB	300	A	O4'-C4'-C3'	10.54	114.54	104.00
25	BB	478	A	C4-C5-C6	-10.54	111.73	117.00
25	BB	564	C	N3-C4-C5	10.54	126.12	121.90
25	BB	2308	G	N3-C4-C5	-10.54	123.33	128.60
3	A1	1155	A	N9-C4-C5	10.54	110.02	105.80
25	BB	395	U	N3-C2-O2	-10.54	114.82	122.20
25	BB	1292	G	C5-C6-N1	10.54	116.77	111.50
25	BB	1981	A	C2-N3-C4	10.54	115.87	110.60
25	BB	2667	C	N1-C2-O2	10.54	125.22	118.90
25	BB	473	G	C5-C6-N1	10.54	116.77	111.50
25	BB	1510	G	C4-C5-C6	-10.54	112.48	118.80
25	BB	2173	A	N1-C2-N3	-10.54	124.03	129.30
25	BB	1856	U	N3-C2-O2	-10.53	114.83	122.20
25	BB	1879	C	N3-C2-O2	-10.53	114.53	121.90
3	A1	894	G	N3-C4-N9	10.53	132.32	126.00
3	A1	1380	U	N3-C2-O2	-10.53	114.83	122.20
25	BB	1390	U	C4-C5-C6	10.53	126.02	119.70
3	A1	245	U	N3-C2-O2	-10.53	114.83	122.20
3	A1	550	G	N9-C4-C5	10.53	109.61	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	331	C	C1'-O4'-C4'	-10.53	101.48	109.90
25	BB	860	U	N3-C2-O2	-10.53	114.83	122.20
25	BB	2324	U	C5-C6-N1	-10.53	117.44	122.70
3	A1	943	U	N3-C2-O2	-10.53	114.83	122.20
3	A1	1184	G	C8-N9-C4	-10.53	102.19	106.40
25	BB	360	U	O4'-C1'-N1	10.53	116.62	108.20
25	BB	1939	U	N1-C2-O2	10.53	130.17	122.80
25	BB	2529	G	C6-C5-N7	10.53	136.72	130.40
25	BB	2838	G	C5-C6-N1	10.53	116.76	111.50
3	A1	218	U	N3-C2-O2	-10.53	114.83	122.20
3	A1	974	A	N9-C4-C5	-10.53	101.59	105.80
3	A1	1239	A	O4'-C1'-N9	10.53	116.62	108.20
3	A1	1412	C	N3-C4-N4	-10.53	110.63	118.00
25	BB	588	U	C3'-C2'-C1'	10.53	109.92	101.50
25	BB	1431	A	O4'-C4'-C3'	10.53	114.53	104.00
25	BB	730	A	N1-C2-N3	-10.53	124.04	129.30
25	BB	2523	G	N3-C2-N2	-10.53	112.53	119.90
25	BB	2859	G	C5-C6-N1	10.53	116.76	111.50
3	A1	1508	A	C4-C5-C6	-10.52	111.74	117.00
25	BB	439	A	C2-N3-C4	10.52	115.86	110.60
25	BB	2788	C	N3-C4-C5	10.52	126.11	121.90
3	A1	1064	G	N1-C6-O6	-10.52	113.59	119.90
25	BB	64	A	C8-N9-C4	-10.52	101.59	105.80
25	BB	346	A	C4-C5-C6	-10.52	111.74	117.00
25	BB	1125	G	N1-C2-N3	10.52	130.21	123.90
25	BB	583	G	C6-C5-N7	10.52	136.71	130.40
25	BB	1082	U	O4'-C4'-C3'	10.52	114.52	104.00
25	BB	2777	G	O4'-C1'-N9	10.52	116.62	108.20
1	AA	56	C	N1-C2-O2	10.52	125.21	118.90
3	A1	230	G	N1-C6-O6	-10.52	113.59	119.90
25	BB	556	A	C5-C6-N1	10.52	122.96	117.70
25	BB	191	A	C5-C6-N1	10.52	122.96	117.70
25	BB	2413	G	N3-C4-N9	10.52	132.31	126.00
3	A1	383	A	C5-C6-N6	10.52	132.11	123.70
3	A1	1396	A	C5-C6-N1	10.52	122.96	117.70
25	BB	364	C	N3-C2-O2	-10.52	114.54	121.90
3	A1	982	U	N3-C2-O2	-10.52	114.84	122.20
25	BB	1915	U	N3-C2-O2	-10.52	114.84	122.20
25	BB	2295	C	N3-C4-C5	10.52	126.11	121.90
25	BB	2270	A	O4'-C1'-N9	10.52	116.61	108.20
25	BB	2447	G	N7-C8-N9	10.52	118.36	113.10
25	BB	1909	C	N3-C4-N4	-10.51	110.64	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	432	A	N1-C6-N6	-10.51	112.29	118.60
25	BB	2112	G	C8-N9-C4	-10.51	102.19	106.40
25	BB	1758	U	O4'-C1'-N1	10.51	116.61	108.20
3	A1	58	C	N3-C4-N4	-10.51	110.64	118.00
24	BA	20	G	N9-C4-C5	10.51	109.60	105.40
3	A1	1405	G	N1-C2-N3	10.51	130.20	123.90
24	BA	41	G	C8-N9-C4	-10.51	102.20	106.40
24	BA	58	A	N1-C6-N6	-10.51	112.30	118.60
25	BB	1070	A	N1-C6-N6	-10.51	112.30	118.60
25	BB	2667	C	N3-C2-O2	-10.51	114.55	121.90
25	BB	868	U	N3-C4-O4	10.50	126.75	119.40
25	BB	1287	A	C2-N3-C4	10.50	115.85	110.60
25	BB	1510	G	C5-C6-N1	10.50	116.75	111.50
3	A1	28	A	N1-C6-N6	-10.50	112.30	118.60
24	BA	70	C	N1-C2-O2	10.50	125.20	118.90
3	A1	524	G	C2-N3-C4	10.50	117.15	111.90
3	A1	774	G	C6-N1-C2	-10.50	118.80	125.10
17	AR	187	ARG	NE-CZ-NH2	10.50	125.55	120.30
25	BB	1972	G	C5-C6-N1	10.50	116.75	111.50
3	A1	668	G	N3-C4-C5	-10.50	123.35	128.60
25	BB	886	A	O4'-C4'-C3'	10.50	114.50	104.00
25	BB	1800	C	C1'-O4'-C4'	-10.50	101.50	109.90
3	A1	820	U	N3-C2-O2	-10.49	114.85	122.20
25	BB	485	C	N3-C4-C5	10.49	126.10	121.90
3	A1	503	C	N3-C4-C5	10.49	126.10	121.90
25	BB	849	A	O4'-C4'-C3'	10.49	114.49	106.10
25	BB	1241	A	N1-C6-N6	-10.49	112.30	118.60
25	BB	1424	G	C4-C5-N7	-10.49	106.60	110.80
25	BB	2015	A	N1-C6-N6	-10.49	112.31	118.60
25	BB	2565	A	C1'-O4'-C4'	-10.49	101.51	109.90
25	BB	2683	C	C6-N1-C2	10.49	124.50	120.30
3	A1	900	A	C4-C5-C6	-10.49	111.75	117.00
25	BB	165	A	N1-C6-N6	-10.49	112.31	118.60
25	BB	1565	C	N3-C4-C5	-10.49	117.70	121.90
25	BB	2695	U	C1'-O4'-C4'	-10.49	101.51	109.90
3	A1	22	G	N7-C8-N9	10.49	118.34	113.10
3	A1	128	G	N3-C4-C5	10.49	133.84	128.60
3	A1	351	G	C4-C5-N7	-10.49	106.61	110.80
3	A1	1175	G	C5-C6-N1	10.49	116.74	111.50
25	BB	123	G	C5-C6-N1	10.49	116.74	111.50
25	BB	919	U	N3-C2-O2	-10.49	114.86	122.20
25	BB	1529	G	N3-C2-N2	-10.49	112.56	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1668	A	C1'-O4'-C4'	-10.49	101.51	109.90
25	BB	2577	A	C5-C6-N6	10.49	132.09	123.70
3	A1	537	G	N1-C6-O6	-10.48	113.61	119.90
3	A1	613	C	C5-C4-N4	10.48	127.54	120.20
3	A1	1094	G	O4'-C1'-N9	-10.48	99.81	108.20
3	A1	558	G	C2-N3-C4	-10.48	106.66	111.90
25	BB	34	U	C5-C6-N1	-10.48	117.46	122.70
25	BB	531	C	N3-C2-O2	-10.48	114.56	121.90
25	BB	2860	A	C5-C6-N1	10.48	122.94	117.70
3	A1	608	A	C5-C6-N6	10.48	132.09	123.70
25	BB	1490	A	N1-C6-N6	-10.48	112.31	118.60
25	BB	2434	A	C4-C5-C6	-10.48	111.76	117.00
25	BB	786	C	N1-C2-O2	10.48	125.19	118.90
25	BB	2523	G	C8-N9-C4	-10.48	102.21	106.40
1	AP	38	A	C5-C6-N6	10.48	132.08	123.70
25	BB	1242	U	C2-N3-C4	-10.48	120.71	127.00
25	BB	2855	C	N3-C4-C5	10.48	126.09	121.90
1	AA	10	G	N1-C6-O6	-10.48	113.61	119.90
1	AP	16	U	C5-C6-N1	-10.48	117.46	122.70
3	A1	774	G	C5-C6-N1	10.48	116.74	111.50
25	BB	1252	G	C5-C6-N1	10.48	116.74	111.50
25	BB	1571	A	C4-C5-N7	-10.48	105.46	110.70
25	BB	2185	U	O4'-C4'-C3'	10.48	114.48	106.10
3	A1	26	A	C5-C6-N1	10.47	122.94	117.70
3	A1	40	C	N3-C2-O2	-10.47	114.57	121.90
1	AA	28	C	N3-C2-O2	-10.47	114.57	121.90
2	AM	3	U	N1-C2-N3	10.47	121.18	114.90
3	A1	49	U	C5-C4-O4	10.47	132.18	125.90
3	A1	253	A	C5-C6-N6	10.47	132.08	123.70
3	A1	421	U	O4'-C1'-N1	10.47	116.58	108.20
3	A1	767	A	C5-C6-N6	10.47	132.08	123.70
25	BB	458	G	N1-C6-O6	-10.47	113.61	119.90
25	BB	533	G	C4-C5-N7	-10.47	106.61	110.80
25	BB	1731	G	N3-C4-C5	-10.47	123.36	128.60
25	BB	2352	A	C5-C6-N6	10.47	132.08	123.70
3	A1	468	A	C8-N9-C4	-10.47	101.61	105.80
25	BB	1196	C	C5-C4-N4	10.47	127.53	120.20
25	BB	1169	A	C2-N3-C4	10.47	115.83	110.60
25	BB	2009	A	C5-C6-N1	10.47	122.94	117.70
17	AR	110	ARG	NE-CZ-NH2	-10.47	115.07	120.30
25	BB	1126	A	C4-C5-C6	-10.47	111.77	117.00
3	A1	1101	A	C4-C5-N7	10.47	115.93	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1349	A	C6-C5-N7	10.47	139.63	132.30
25	BB	456	C	C2-N3-C4	-10.47	114.67	119.90
25	BB	1679	A	C6-C5-N7	10.47	139.63	132.30
25	BB	1964	G	C6-C5-N7	10.47	136.68	130.40
25	BB	2136	G	C5-C6-N1	10.47	116.73	111.50
25	BB	2179	C	C4'-C3'-C2'	-10.47	92.13	102.60
25	BB	2443	C	O4'-C1'-N1	-10.47	99.83	108.20
25	BB	2705	A	N9-C4-C5	10.47	109.99	105.80
1	AE	26	G	C5-N7-C8	-10.46	99.07	104.30
3	A1	596	A	C5-C6-N1	10.46	122.93	117.70
3	A1	660	C	N3-C4-C5	10.46	126.09	121.90
25	BB	1160	G	C5-C6-O6	10.47	134.88	128.60
25	BB	1172	C	N1-C2-O2	10.47	125.18	118.90
3	A1	694	A	C1'-O4'-C4'	-10.46	101.53	109.90
25	BB	825	A	C6-C5-N7	10.46	139.62	132.30
25	BB	2453	A	C5-C6-N1	10.46	122.93	117.70
25	BB	424	G	C8-N9-C4	-10.46	102.22	106.40
25	BB	633	A	N1-C2-N3	-10.46	124.07	129.30
25	BB	2393	U	C5-C6-N1	-10.46	117.47	122.70
25	BB	2579	C	N1-C2-O2	10.46	125.18	118.90
3	A1	824	G	C5'-C4'-O4'	10.46	121.65	109.10
3	A1	1079	G	C4'-C3'-C2'	-10.46	92.14	102.60
25	BB	506	G	C8-N9-C4	-10.46	102.22	106.40
25	BB	1561	C	N1-C2-O2	10.46	125.18	118.90
3	A1	862	C	C5-C4-N4	-10.46	112.88	120.20
21	AV	87	ARG	NE-CZ-NH1	10.46	125.53	120.30
25	BB	13	A	C5-C6-N1	10.46	122.93	117.70
25	BB	458	G	O4'-C1'-N9	10.46	116.57	108.20
25	BB	780	G	C5'-C4'-O4'	10.46	121.65	109.10
25	BB	1142	A	C4-C5-C6	-10.46	111.77	117.00
25	BB	2072	C	N1-C2-O2	10.46	125.17	118.90
25	BB	2212	A	O4'-C1'-N9	10.46	116.57	108.20
25	BB	2541	A	C6-C5-N7	10.46	139.62	132.30
3	A1	246	A	O5'-P-OP1	-10.46	96.29	105.70
3	A1	512	U	N1-C2-N3	10.46	121.17	114.90
24	BA	99	A	C4-C5-C6	-10.46	111.77	117.00
25	BB	84	A	N1-C6-N6	-10.46	112.33	118.60
25	BB	257	C	C5-C6-N1	-10.46	115.77	121.00
3	A1	982	U	N1-C2-N3	10.45	121.17	114.90
25	BB	22	C	N3-C4-N4	-10.45	110.68	118.00
25	BB	257	C	N3-C2-O2	-10.46	114.58	121.90
25	BB	1134	A	C5-C6-N6	10.46	132.06	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1634	A	C5-C6-N1	10.46	122.93	117.70
25	BB	2872	A	C5-C6-N1	10.46	122.93	117.70
25	BB	1570	A	N1-C6-N6	-10.45	112.33	118.60
1	AE	40	C	N1-C2-O2	10.45	125.17	118.90
3	A1	689	C	C6-N1-C2	-10.45	116.12	120.30
25	BB	1329	U	N3-C2-O2	-10.45	114.88	122.20
25	BB	1623	G	O4'-C1'-N9	10.45	116.56	108.20
25	BB	1801	A	C5-C6-N6	10.45	132.06	123.70
25	BB	1943	U	C5-C4-O4	-10.45	119.63	125.90
25	BB	2774	C	N3-C4-C5	10.45	126.08	121.90
25	BB	2802	G	C6-N1-C2	-10.45	118.83	125.10
25	BB	1223	G	C4-C5-C6	-10.45	112.53	118.80
3	A1	373	A	C5-N7-C8	10.45	109.12	103.90
25	BB	1656	C	C6-N1-C2	-10.45	116.12	120.30
25	BB	1916	A	C5-C6-N1	10.45	122.92	117.70
25	BB	2116	G	N9-C4-C5	10.45	109.58	105.40
25	BB	305	C	C5-C6-N1	-10.45	115.78	121.00
25	BB	2229	U	C1'-O4'-C4'	-10.45	101.54	109.90
25	BB	2265	U	C5-C6-N1	-10.45	117.48	122.70
25	BB	2606	C	O4'-C1'-N1	10.45	116.56	108.20
28	BE	59	ARG	NE-CZ-NH1	10.44	125.52	120.30
25	BB	1236	G	N3-C4-C5	-10.44	123.38	128.60
3	A1	824	G	N9-C4-C5	10.44	109.58	105.40
25	BB	45	G	C5-N7-C8	-10.44	99.08	104.30
25	BB	544	C	C4'-C3'-C2'	-10.44	92.16	102.60
25	BB	921	C	C4-C5-C6	10.44	122.62	117.40
25	BB	1026	G	N1-C6-O6	-10.44	113.63	119.90
25	BB	2433	A	C3'-C2'-C1'	-10.44	93.15	101.50
3	A1	766	A	C6-N1-C2	-10.44	112.34	118.60
3	A1	1218	C	C2-N3-C4	-10.44	114.68	119.90
25	BB	161	A	C4-C5-C6	-10.44	111.78	117.00
25	BB	920	A	N7-C8-N9	10.44	119.02	113.80
25	BB	1477	A	C5-N7-C8	-10.44	98.68	103.90
25	BB	2452	C	C6-N1-C2	-10.44	116.12	120.30
25	BB	2472	G	C3'-C2'-C1'	10.44	109.85	101.50
3	A1	1006	G	N9-C4-C5	-10.44	101.22	105.40
24	BA	38	C	N3-C2-O2	-10.44	114.59	121.90
25	BB	1866	A	C2-N3-C4	10.44	115.82	110.60
25	BB	2330	G	N3-C4-C5	-10.44	123.38	128.60
25	BB	856	G	C5-C6-O6	10.44	134.86	128.60
25	BB	2679	A	C5-C6-N1	10.44	122.92	117.70
3	A1	198	G	N3-C4-C5	-10.43	123.38	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	264	C	N3-C2-O2	-10.43	114.60	121.90
3	A1	771	G	C8-N9-C4	-10.43	102.23	106.40
25	BB	1229	C	N3-C2-O2	-10.43	114.60	121.90
25	BB	2644	G	C4-C5-N7	-10.43	106.63	110.80
25	BB	2754	U	N1-C2-N3	10.43	121.16	114.90
25	BB	2823	A	C2-N3-C4	10.43	115.82	110.60
24	BA	60	C	N1-C2-O2	10.43	125.16	118.90
1	AE	70	C	N3-C2-O2	-10.43	114.60	121.90
3	A1	147	G	N1-C6-O6	-10.43	113.64	119.90
25	BB	2345	G	P-O3'-C3'	10.43	132.22	119.70
25	BB	701	G	C5-C6-O6	-10.43	122.34	128.60
25	BB	1689	A	C5-N7-C8	-10.43	98.69	103.90
25	BB	2305	U	N1-C2-N3	10.43	121.16	114.90
25	BB	2371	G	O4'-C1'-N9	-10.43	99.86	108.20
25	BB	2674	G	C4-C5-N7	-10.43	106.63	110.80
3	A1	26	A	C4-C5-C6	-10.42	111.79	117.00
3	A1	489	C	N3-C4-C5	10.42	126.07	121.90
25	BB	700	G	C8-N9-C4	-10.42	102.23	106.40
3	A1	694	A	C8-N9-C4	-10.42	101.63	105.80
25	BB	879	G	N3-C2-N2	-10.42	112.60	119.90
25	BB	1005	C	N3-C4-C5	10.42	126.07	121.90
25	BB	2311	A	C8-N9-C4	-10.42	101.63	105.80
25	BB	2512	C	C4-C5-C6	10.42	122.61	117.40
1	AP	55	U	N1-C2-N3	10.42	121.15	114.90
1	AE	7	U	C4-C5-C6	10.42	125.95	119.70
3	A1	303	A	N1-C6-N6	-10.42	112.35	118.60
3	A1	646	G	N7-C8-N9	10.42	118.31	113.10
3	A1	960	U	N3-C2-O2	-10.42	114.91	122.20
3	A1	1209	C	N3-C4-N4	-10.42	110.70	118.00
25	BB	1312	U	N1-C2-N3	10.42	121.15	114.90
25	BB	2288	A	C5-C6-N1	10.42	122.91	117.70
25	BB	2704	C	N1-C2-O2	10.42	125.15	118.90
24	BA	61	G	N3-C4-N9	10.42	132.25	126.00
25	BB	192	C	N3-C2-O2	-10.42	114.61	121.90
25	BB	1404	C	N3-C4-N4	-10.42	110.71	118.00
1	AP	42	G	C8-N9-C4	-10.42	102.23	106.40
3	A1	614	C	C5-C6-N1	-10.42	115.79	121.00
25	BB	256	A	N1-C6-N6	-10.42	112.35	118.60
25	BB	1314	C	C2-N3-C4	-10.42	114.69	119.90
25	BB	2773	C	C4-C5-C6	10.42	122.61	117.40
25	BB	686	U	N3-C2-O2	-10.41	114.91	122.20
25	BB	1571	A	C5-C6-N6	10.41	132.03	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2392	A	C5-C6-N1	10.41	122.91	117.70
25	BB	2668	G	C8-N9-C4	-10.41	102.23	106.40
29	BF	40	ARG	NE-CZ-NH1	10.41	125.51	120.30
3	A1	1188	A	C4-C5-C6	-10.41	111.79	117.00
25	BB	721	A	C2-N3-C4	10.41	115.81	110.60
25	BB	2332	C	N1-C2-O2	10.41	125.15	118.90
3	A1	83	C	O4'-C1'-C2'	-10.41	95.39	105.80
25	BB	920	A	C5-C6-N1	10.41	122.91	117.70
25	BB	1966	A	C2-N3-C4	10.41	115.81	110.60
25	BB	2064	C	O4'-C1'-N1	10.41	116.53	108.20
3	A1	204	G	N1-C6-O6	-10.41	113.66	119.90
25	BB	1362	C	C6-N1-C2	-10.41	116.14	120.30
25	BB	1667	G	C6-C5-N7	10.41	136.65	130.40
3	A1	200	G	C6-N1-C2	-10.41	118.86	125.10
1	AE	35	A	N1-C6-N6	-10.41	112.36	118.60
3	A1	862	C	N3-C4-C5	10.41	126.06	121.90
25	BB	300	A	C4-C5-C6	-10.41	111.80	117.00
25	BB	1143	A	O4'-C1'-N9	10.41	116.53	108.20
25	BB	1239	G	C4-C5-N7	-10.41	106.64	110.80
25	BB	797	G	C3'-C2'-C1'	10.40	109.82	101.50
25	BB	1977	A	C4-C5-C6	-10.40	111.80	117.00
3	A1	878	A	C5-C6-N1	10.40	122.90	117.70
25	BB	2517	C	N3-C2-O2	-10.40	114.62	121.90
25	BB	2700	A	N1-C6-N6	-10.40	112.36	118.60
3	A1	808	C	N3-C4-C5	10.40	126.06	121.90
25	BB	635	C	N3-C4-C5	10.40	126.06	121.90
3	A1	16	A	N3-C4-C5	10.40	134.08	126.80
3	A1	626	G	C4-C5-N7	10.40	114.96	110.80
3	A1	1193	G	C5-C6-N1	10.40	116.70	111.50
3	A1	1486	G	N7-C8-N9	10.40	118.30	113.10
25	BB	2890	G	N1-C6-O6	-10.40	113.66	119.90
3	A1	590	U	O4'-C1'-N1	10.40	116.52	108.20
3	A1	1168	U	N1-C2-O2	10.40	130.08	122.80
25	BB	322	A	C6-C5-N7	10.40	139.58	132.30
25	BB	445	C	N3-C4-N4	-10.40	110.72	118.00
25	BB	1257	C	N3-C2-O2	-10.40	114.62	121.90
25	BB	2598	A	N1-C6-N6	-10.40	112.36	118.60
25	BB	2767	C	C6-N1-C2	10.40	124.46	120.30
25	BB	576	U	N3-C2-O2	-10.40	114.92	122.20
25	BB	612	G	N3-C4-N9	10.40	132.24	126.00
25	BB	2420	C	N3-C4-C5	10.40	126.06	121.90
25	BB	2508	G	N9-C4-C5	10.40	109.56	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1435	G	N1-C2-N3	10.39	130.14	123.90
3	A1	817	C	C4-C5-C6	10.39	122.60	117.40
25	BB	618	G	N7-C8-N9	10.39	118.30	113.10
25	BB	843	G	N3-C4-C5	-10.39	123.40	128.60
25	BB	2589	A	C8-N9-C4	-10.39	101.64	105.80
25	BB	2872	A	C6-N1-C2	-10.39	112.36	118.60
3	A1	155	A	C6-C5-N7	10.39	139.57	132.30
3	A1	357	G	C5-C6-N1	10.39	116.69	111.50
3	A1	912	C	C6-N1-C2	-10.39	116.14	120.30
20	AU	78	ARG	NE-CZ-NH2	10.39	125.50	120.30
25	BB	1532	A	C4-C5-N7	10.39	115.90	110.70
25	BB	1307	A	C4-C5-C6	-10.39	111.81	117.00
25	BB	354	A	C5-C6-N1	10.39	122.89	117.70
25	BB	1036	G	C4-C5-N7	-10.39	106.64	110.80
25	BB	1978	A	C5-C6-N1	10.39	122.89	117.70
3	A1	91	U	O4'-C1'-N1	10.39	116.51	108.20
3	A1	881	G	C5-N7-C8	-10.38	99.11	104.30
3	A1	922	G	C3'-C2'-C1'	10.38	109.81	101.50
25	BB	286	U	C5-C4-O4	-10.39	119.67	125.90
3	A1	1461	G	N1-C6-O6	-10.38	113.67	119.90
16	AQ	17	ARG	NE-CZ-NH2	-10.38	115.11	120.30
25	BB	886	A	C5-C6-N1	10.38	122.89	117.70
25	BB	912	C	C2-N3-C4	-10.39	114.71	119.90
25	BB	2206	C	N3-C4-N4	-10.38	110.73	118.00
25	BB	2338	C	O4'-C1'-N1	10.38	116.51	108.20
25	BB	2357	G	C8-N9-C4	-10.38	102.25	106.40
25	BB	2373	G	C5-C6-N1	10.38	116.69	111.50
25	BB	2697	G	C2-N3-C4	10.38	117.09	111.90
3	A1	1190	G	C5-C6-O6	10.38	134.83	128.60
3	A1	991	U	N3-C2-O2	-10.38	114.93	122.20
3	A1	1517	G	C2-N3-C4	10.38	117.09	111.90
25	BB	430	A	N1-C6-N6	-10.38	112.37	118.60
25	BB	2090	A	C6-N1-C2	-10.38	112.37	118.60
25	BB	2099	U	N1-C2-N3	10.38	121.13	114.90
25	BB	2126	A	N7-C8-N9	-10.38	108.61	113.80
3	A1	998	C	N3-C4-C5	10.38	126.05	121.90
25	BB	710	U	N3-C2-O2	-10.38	114.94	122.20
25	BB	2681	C	N3-C2-O2	-10.38	114.64	121.90
25	BB	1278	C	N3-C4-C5	10.38	126.05	121.90
25	BB	1739	A	C3'-C2'-C1'	-10.38	93.20	101.50
25	BB	2049	G	C5-C6-N1	10.38	116.69	111.50
3	A1	272	C	C2-N3-C4	-10.38	114.71	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	30	G	C6-C5-N7	10.38	136.62	130.40
3	A1	1102	A	C6-C5-N7	10.37	139.56	132.30
25	BB	513	A	O4'-C1'-N9	10.38	116.50	108.20
25	BB	1341	G	C6-N1-C2	-10.38	118.88	125.10
25	BB	2702	G	C2-N3-C4	10.37	117.09	111.90
3	A1	468	A	N1-C2-N3	-10.37	124.11	129.30
25	BB	2328	A	C4-C5-C6	-10.37	111.81	117.00
25	BB	650	C	N3-C2-O2	-10.37	114.64	121.90
25	BB	1522	A	C5-C6-N6	10.37	132.00	123.70
25	BB	1579	A	C4-C5-C6	-10.37	111.81	117.00
2	AM	2	U	C6-N1-C2	-10.37	114.78	121.00
3	A1	8	A	O4'-C1'-N9	10.37	116.50	108.20
3	A1	37	U	N3-C2-O2	-10.37	114.94	122.20
3	A1	394	G	C4-C5-N7	-10.37	106.65	110.80
6	AD	88	ASP	CB-CG-OD1	10.37	127.63	118.30
25	BB	2373	G	C6-C5-N7	10.37	136.62	130.40
24	BA	69	G	N3-C4-C5	-10.37	123.42	128.60
25	BB	798	G	N9-C4-C5	-10.37	101.25	105.40
25	BB	1807	G	N1-C6-O6	-10.37	113.68	119.90
3	A1	1176	A	C4-C5-C6	-10.37	111.82	117.00
25	BB	1634	A	C4-C5-N7	-10.37	105.52	110.70
25	BB	2061	G	O4'-C1'-N9	10.37	116.49	108.20
3	A1	686	U	C6-N1-C2	-10.36	114.78	121.00
25	BB	897	C	N3-C2-O2	-10.36	114.64	121.90
25	BB	1233	C	N3-C2-O2	-10.37	114.64	121.90
34	BK	78	ARG	NH1-CZ-NH2	-10.37	108.00	119.40
1	AP	1	G	N7-C8-N9	10.36	118.28	113.10
3	A1	1033	G	N7-C8-N9	10.36	118.28	113.10
3	A1	1219	A	C4-C5-C6	-10.36	111.82	117.00
25	BB	236	C	N1-C2-O2	10.36	125.12	118.90
25	BB	254	G	N3-C4-C5	-10.36	123.42	128.60
25	BB	1564	C	N3-C4-N4	-10.36	110.75	118.00
25	BB	1829	A	N1-C6-N6	-10.36	112.38	118.60
18	AS	67	ARG	NH1-CZ-NH2	-10.36	108.01	119.40
25	BB	20	C	N1-C2-O2	10.36	125.11	118.90
25	BB	566	U	C3'-C2'-C1'	10.36	109.79	101.50
25	BB	1218	G	N3-C4-C5	-10.36	123.42	128.60
25	BB	2488	G	N3-C2-N2	-10.36	112.65	119.90
25	BB	2310	C	O4'-C1'-N1	10.36	116.49	108.20
1	AP	7	U	N3-C4-O4	10.36	126.65	119.40
3	A1	794	A	C5-C6-N1	10.36	122.88	117.70
22	AW	17	ARG	NH1-CZ-NH2	-10.36	108.01	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	60	G	N1-C2-N3	10.36	130.11	123.90
25	BB	1049	C	C1'-O4'-C4'	-10.36	101.61	109.90
25	BB	2345	G	C4-C5-N7	-10.36	106.66	110.80
25	BB	2725	A	C4-C5-C6	-10.36	111.82	117.00
3	A1	527	G	N1-C6-O6	-10.35	113.69	119.90
25	BB	380	G	C8-N9-C4	-10.35	102.26	106.40
3	A1	938	A	N7-C8-N9	-10.35	108.62	113.80
3	A1	1069	C	N3-C2-O2	-10.35	114.65	121.90
25	BB	1422	G	O4'-C1'-N9	10.35	116.48	108.20
25	BB	1853	A	C5-C6-N1	10.35	122.88	117.70
25	BB	2012	G	O4'-C1'-N9	10.35	116.48	108.20
3	A1	926	G	N7-C8-N9	10.35	118.27	113.10
25	BB	1942	C	N3-C4-C5	10.35	126.04	121.90
25	BB	1335	C	O4'-C1'-N1	10.35	116.48	108.20
25	BB	147	C	C4-C5-C6	-10.35	112.23	117.40
3	A1	412	A	N1-C6-N6	-10.35	112.39	118.60
25	BB	1865	U	O4'-C1'-N1	10.35	116.48	108.20
25	BB	2674	G	N9-C4-C5	10.35	109.54	105.40
1	AE	8	U	N3-C2-O2	-10.34	114.96	122.20
1	AE	72	C	C5'-C4'-O4'	10.34	121.51	109.10
3	A1	77	A	C5'-C4'-O4'	10.34	121.51	109.10
3	A1	322	C	C4-C5-C6	-10.34	112.23	117.40
3	A1	687	A	C5-C6-N1	10.34	122.87	117.70
3	A1	978	A	C6-N1-C2	-10.34	112.39	118.60
3	A1	1130	A	N1-C6-N6	-10.34	112.39	118.60
3	A1	44	A	C5'-C4'-O4'	10.34	121.51	109.10
3	A1	1529	G	C5-C6-N1	10.34	116.67	111.50
25	BB	468	G	C5-C6-N1	10.34	116.67	111.50
25	BB	2736	A	C4-C5-C6	-10.34	111.83	117.00
25	BB	1605	C	C4-C5-C6	-10.34	112.23	117.40
3	A1	1418	A	N3-C4-N9	10.34	135.67	127.40
3	A1	714	G	O4'-C1'-N9	-10.34	99.93	108.20
25	BB	729	G	C3'-C2'-C1'	10.34	109.77	101.50
25	BB	1046	A	O4'-C4'-C3'	10.34	114.37	106.10
25	BB	2391	G	C3'-C2'-C1'	-10.34	93.23	101.50
25	BB	2717	C	C5-C6-N1	-10.34	115.83	121.00
3	A1	394	G	C2-N3-C4	10.34	117.07	111.90
3	A1	959	A	O4'-C1'-N9	10.34	116.47	108.20
3	A1	403	C	N1-C2-O2	10.34	125.10	118.90
25	BB	1733	G	C5-C6-N1	10.34	116.67	111.50
3	A1	748	G	N3-C4-C5	-10.34	123.43	128.60
25	BB	685	A	C4-C5-N7	10.34	115.87	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	985	C	N3-C2-O2	-10.34	114.67	121.90
25	BB	1074	G	O4'-C1'-N9	10.34	116.47	108.20
25	BB	1517	G	N7-C8-N9	10.34	118.27	113.10
1	AA	35	A	C4-C5-C6	-10.33	111.83	117.00
3	A1	658	C	N3-C4-N4	-10.33	110.77	118.00
25	BB	20	C	N3-C2-O2	-10.33	114.67	121.90
3	A1	1195	C	N3-C2-O2	-10.33	114.67	121.90
24	BA	29	A	C5-C6-N1	10.33	122.87	117.70
25	BB	371	A	C4-C5-C6	-10.33	111.83	117.00
25	BB	2132	U	C6-N1-C2	-10.33	114.80	121.00
25	BB	2653	U	C2-N3-C4	-10.33	120.80	127.00
1	AA	14	A	C4-C5-C6	-10.33	111.83	117.00
8	AG	12	ARG	NE-CZ-NH1	10.33	125.47	120.30
25	BB	1156	A	C8-N9-C4	10.33	109.93	105.80
25	BB	1207	C	O4'-C1'-N1	10.33	116.47	108.20
25	BB	1721	G	N7-C8-N9	10.33	118.27	113.10
25	BB	1503	A	C6-C5-N7	10.33	139.53	132.30
25	BB	2100	G	C5-C6-N1	10.33	116.66	111.50
25	BB	2486	C	C5-C6-N1	-10.33	115.83	121.00
3	A1	557	G	N3-C4-C5	-10.33	123.44	128.60
3	A1	771	G	N9-C4-C5	10.33	109.53	105.40
3	A1	1124	G	C6-C5-N7	10.33	136.60	130.40
3	A1	1297	G	O4'-C1'-N9	10.33	116.46	108.20
24	BA	44	G	C5-N7-C8	-10.33	99.14	104.30
25	BB	507	A	N1-C6-N6	-10.33	112.40	118.60
1	AE	13	C	N3-C4-C5	10.32	126.03	121.90
3	A1	660	C	O4'-C1'-N1	10.32	116.46	108.20
3	A1	725	G	C8-N9-C4	-10.32	102.27	106.40
3	A1	1427	C	N3-C2-O2	-10.32	114.67	121.90
25	BB	274	C	O4'-C1'-N1	10.32	116.46	108.20
25	BB	691	C	N3-C4-N4	-10.32	110.77	118.00
12	AK	31	TYR	CB-CG-CD1	-10.32	114.81	121.00
25	BB	372	G	O4'-C1'-N9	-10.32	99.94	108.20
25	BB	611	C	O4'-C1'-N1	10.32	116.46	108.20
25	BB	1982	U	N1-C2-O2	10.32	130.03	122.80
3	A1	1328	C	N3-C2-O2	-10.32	114.68	121.90
25	BB	927	A	C5-C6-N1	10.32	122.86	117.70
25	BB	1384	A	N7-C8-N9	10.32	118.96	113.80
25	BB	2006	C	N3-C4-C5	10.32	126.03	121.90
25	BB	1540	G	C5-C6-N1	10.32	116.66	111.50
1	AP	57	G	C2-N3-C4	10.32	117.06	111.90
25	BB	82	U	C5-C6-N1	-10.32	117.54	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2779	U	N1-C2-N3	10.32	121.09	114.90
3	A1	111	G	C6-N1-C2	-10.31	118.91	125.10
3	A1	692	U	N3-C2-O2	-10.31	114.98	122.20
25	BB	334	C	N3-C4-N4	-10.31	110.78	118.00
25	BB	1546	G	O4'-C4'-C3'	10.31	114.35	106.10
25	BB	149	A	C4-C5-C6	-10.31	111.84	117.00
25	BB	1172	C	C5-C6-N1	-10.31	115.84	121.00
25	BB	1687	G	C5'-C4'-C3'	10.31	132.50	116.00
25	BB	2078	C	N1-C2-O2	10.31	125.09	118.90
55	B6	119	PHE	CB-CG-CD1	-10.31	113.58	120.80
3	A1	402	G	C5-C6-N1	10.31	116.66	111.50
1	AA	23	A	C5-N7-C8	-10.31	98.75	103.90
3	A1	753	A	C8-N9-C4	10.31	109.92	105.80
25	BB	75	G	C5-C6-N1	10.31	116.66	111.50
25	BB	1774	C	N1-C2-O2	10.31	125.09	118.90
25	BB	2309	A	C4-C5-C6	-10.31	111.84	117.00
1	AP	63	C	C5-C4-N4	10.31	127.42	120.20
1	AE	37	G	C5-N7-C8	-10.31	99.15	104.30
3	A1	243	A	C5-N7-C8	-10.31	98.75	103.90
25	BB	168	G	C5-C6-O6	10.31	134.78	128.60
25	BB	2576	G	N3-C4-C5	-10.31	123.45	128.60
3	A1	1185	G	C6-N1-C2	-10.31	118.92	125.10
25	BB	151	C	C2-N3-C4	-10.31	114.75	119.90
25	BB	197	A	C4-C5-C6	-10.30	111.85	117.00
3	A1	558	G	N9-C4-C5	-10.30	101.28	105.40
3	A1	1066	C	C4'-C3'-C2'	-10.30	92.30	102.60
3	A1	1363	A	C5-C6-N1	10.30	122.85	117.70
25	BB	1271	G	C5-N7-C8	-10.30	99.15	104.30
25	BB	1632	A	C5-C6-N1	10.30	122.85	117.70
25	BB	2732	G	C6-N1-C2	-10.30	118.92	125.10
3	A1	141	G	O4'-C1'-N9	10.30	116.44	108.20
3	A1	276	G	C6-N1-C2	-10.30	118.92	125.10
3	A1	613	C	C4-C5-C6	10.30	122.55	117.40
3	A1	1275	A	C5-C6-N1	10.30	122.85	117.70
25	BB	2461	A	C6-N1-C2	-10.30	112.42	118.60
24	BA	75	G	C4-C5-N7	-10.30	106.68	110.80
25	BB	583	G	N1-C2-N2	-10.30	106.93	116.20
25	BB	2210	U	C4-C5-C6	10.30	125.88	119.70
25	BB	2581	G	N3-C4-C5	-10.30	123.45	128.60
25	BB	2751	G	C2-N3-C4	10.30	117.05	111.90
34	BK	35	PHE	CB-CG-CD2	-10.30	113.59	120.80
3	A1	68	G	C5'-C4'-O4'	10.30	121.46	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	960	A	C2-N3-C4	10.30	115.75	110.60
25	BB	1587	G	N1-C2-N2	-10.30	106.93	116.20
25	BB	1794	A	C5-C6-N1	10.30	122.85	117.70
25	BB	2204	G	N7-C8-N9	10.30	118.25	113.10
25	BB	2748	A	C4-C5-C6	-10.30	111.85	117.00
3	A1	767	A	O4'-C1'-N9	-10.29	99.96	108.20
3	A1	873	A	C5-C6-N1	10.29	122.85	117.70
3	A1	1268	G	C1'-O4'-C4'	-10.29	101.67	109.90
25	BB	645	C	O4'-C1'-N1	10.29	116.44	108.20
25	BB	855	G	C4-C5-C6	-10.30	112.62	118.80
25	BB	1556	C	C6-N1-C2	-10.29	116.18	120.30
25	BB	2066	C	N1-C2-O2	10.29	125.08	118.90
25	BB	2395	C	C5-C6-N1	-10.30	115.85	121.00
25	BB	2637	U	C5-C6-N1	-10.29	117.55	122.70
3	A1	1162	C	N3-C2-O2	-10.29	114.69	121.90
1	AP	39	U	N3-C2-O2	-10.29	115.00	122.20
3	A1	521	G	N1-C6-O6	-10.29	113.72	119.90
3	A1	919	A	C2-N3-C4	10.29	115.75	110.60
25	BB	896	A	C2-N3-C4	10.29	115.75	110.60
3	A1	257	G	N1-C6-O6	-10.29	113.73	119.90
25	BB	1285	A	N1-C6-N6	-10.29	112.43	118.60
25	BB	1393	A	O4'-C1'-N9	10.29	116.43	108.20
1	AE	35	A	C5-N7-C8	-10.29	98.76	103.90
3	A1	402	G	N1-C6-O6	-10.29	113.73	119.90
3	A1	840	C	N1-C2-O2	10.29	125.07	118.90
24	BA	46	A	N1-C6-N6	-10.29	112.43	118.60
25	BB	1660	G	O4'-C1'-N9	10.29	116.43	108.20
25	BB	2326	C	N3-C4-N4	-10.29	110.80	118.00
25	BB	1041	G	N3-C4-C5	-10.29	123.46	128.60
3	A1	306	A	C5-C6-N1	10.29	122.84	117.70
3	A1	552	U	N1-C2-N3	10.29	121.07	114.90
3	A1	941	G	C6-N1-C2	-10.29	118.93	125.10
3	A1	1323	G	C4-C5-C6	-10.29	112.63	118.80
25	BB	1170	C	N1-C2-O2	10.29	125.07	118.90
25	BB	1715	G	C5-C6-N1	10.29	116.64	111.50
25	BB	1738	G	N9-C4-C5	10.29	109.52	105.40
3	A1	1431	A	C5-N7-C8	-10.28	98.76	103.90
25	BB	1160	G	N1-C6-O6	-10.28	113.73	119.90
25	BB	1986	C	N3-C2-O2	-10.28	114.70	121.90
1	AE	1	G	N3-C2-N2	-10.28	112.70	119.90
25	BB	689	A	C2-N3-C4	10.28	115.74	110.60
25	BB	835	C	N3-C2-O2	-10.28	114.70	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1001	A	C4'-C3'-C2'	-10.28	92.32	102.60
25	BB	1121	C	C5-C6-N1	-10.28	115.86	121.00
25	BB	2315	G	N1-C6-O6	-10.28	113.73	119.90
3	A1	78	A	N9-C4-C5	-10.28	101.69	105.80
25	BB	381	G	P-O3'-C3'	10.28	132.03	119.70
25	BB	1565	C	C5-C4-N4	10.28	127.40	120.20
25	BB	473	G	C6-N1-C2	-10.28	118.93	125.10
25	BB	813	U	N3-C4-C5	-10.28	108.43	114.60
25	BB	1062	G	N1-C2-N3	10.28	130.07	123.90
25	BB	2113	U	O4'-C1'-N1	10.28	116.42	108.20
25	BB	1120	G	N1-C6-O6	-10.28	113.73	119.90
25	BB	2130	U	C5-C6-N1	-10.28	117.56	122.70
3	A1	1397	C	C2-N3-C4	-10.28	114.76	119.90
25	BB	354	A	C4-C5-C6	-10.28	111.86	117.00
3	A1	151	A	C2-N3-C4	10.28	115.74	110.60
25	BB	481	G	C6-C5-N7	10.28	136.56	130.40
25	BB	1618	A	C2-N3-C4	10.28	115.74	110.60
55	B6	75	TYR	CB-CG-CD2	10.28	127.17	121.00
1	AE	71	G	C5-C6-N1	10.27	116.64	111.50
3	A1	364	A	N1-C6-N6	-10.27	112.44	118.60
3	A1	383	A	C2-N3-C4	10.27	115.74	110.60
3	A1	667	G	C5-N7-C8	-10.27	99.16	104.30
24	BA	42	C	C6-N1-C2	-10.27	116.19	120.30
25	BB	23	G	N7-C8-N9	10.27	118.24	113.10
25	BB	204	A	C5-C6-N1	10.27	122.84	117.70
25	BB	1941	C	C2-N3-C4	-10.27	114.76	119.90
25	BB	2870	C	N3-C2-O2	-10.27	114.71	121.90
25	BB	1966	A	C4-C5-N7	-10.27	105.56	110.70
25	BB	1001	A	N7-C8-N9	10.27	118.94	113.80
3	A1	158	G	C5-N7-C8	-10.27	99.17	104.30
3	A1	215	C	O4'-C1'-N1	10.27	116.41	108.20
25	BB	2219	U	N1-C2-N3	10.27	121.06	114.90
3	A1	1222	G	C2-N3-C4	-10.27	106.77	111.90
24	BA	41	G	C1'-O4'-C4'	-10.27	101.69	109.90
25	BB	1419	A	N1-C6-N6	-10.27	112.44	118.60
25	BB	2381	A	N1-C6-N6	-10.27	112.44	118.60
3	A1	1530	G	N1-C6-O6	-10.26	113.74	119.90
25	BB	1571	A	C6-C5-N7	10.26	139.48	132.30
25	BB	1860	G	N7-C8-N9	-10.26	107.97	113.10
25	BB	2425	A	C6-N1-C2	-10.26	112.44	118.60
1	AA	74	C	C1'-O4'-C4'	-10.26	101.69	109.90
3	A1	47	C	N3-C4-C5	10.26	126.00	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2212	A	C2-N3-C4	10.26	115.73	110.60
25	BB	1862	G	C2-N3-C4	-10.26	106.77	111.90
25	BB	2228	G	C3'-C2'-C1'	10.26	109.71	101.50
25	BB	2308	G	C2-N3-C4	10.26	117.03	111.90
25	BB	2792	A	C2-N3-C4	10.26	115.73	110.60
25	BB	854	C	O4'-C1'-N1	10.26	116.41	108.20
25	BB	2887	A	C4-C5-C6	-10.26	111.87	117.00
3	A1	929	G	C8-N9-C4	-10.26	102.30	106.40
3	A1	1058	G	N1-C6-O6	-10.26	113.75	119.90
3	A1	1104	G	C2-N3-C4	-10.26	106.77	111.90
25	BB	1652	A	N1-C6-N6	-10.26	112.44	118.60
25	BB	36	G	C8-N9-C4	-10.26	102.30	106.40
25	BB	971	G	N1-C2-N3	10.26	130.05	123.90
25	BB	2794	C	C6-N1-C2	-10.26	116.20	120.30
25	BB	1338	G	N9-C4-C5	-10.25	101.30	105.40
25	BB	2435	A	C4-C5-C6	-10.25	111.87	117.00
3	A1	937	A	N1-C2-N3	-10.25	124.17	129.30
3	A1	1109	C	N3-C4-N4	-10.25	110.83	118.00
25	BB	554	U	C2-N3-C4	-10.25	120.85	127.00
25	BB	935	C	N3-C4-C5	10.25	126.00	121.90
25	BB	2074	U	O4'-C1'-N1	10.25	116.40	108.20
25	BB	2249	U	O4'-C1'-N1	10.25	116.40	108.20
25	BB	2848	G	C5-C6-N1	10.25	116.62	111.50
25	BB	2879	A	C5-N7-C8	-10.25	98.78	103.90
34	BK	95	ASP	CB-CG-OD1	-10.25	109.08	118.30
3	A1	315	A	N1-C6-N6	-10.25	112.45	118.60
3	A1	480	U	N3-C2-O2	-10.25	115.03	122.20
3	A1	799	G	C5-N7-C8	-10.25	99.18	104.30
25	BB	559	G	C4-C5-N7	10.25	114.90	110.80
25	BB	1189	A	C5-C6-N1	10.25	122.82	117.70
25	BB	2400	G	N7-C8-N9	10.25	118.22	113.10
25	BB	943	A	C6-N1-C2	-10.25	112.45	118.60
25	BB	2183	A	C6-C5-N7	10.25	139.47	132.30
25	BB	2273	A	N1-C6-N6	-10.25	112.45	118.60
1	AE	27	C	N1-C2-O2	10.24	125.05	118.90
3	A1	1223	C	O4'-C1'-N1	-10.24	100.00	108.20
24	BA	73	A	C2-N3-C4	10.24	115.72	110.60
25	BB	859	G	C3'-C2'-C1'	10.24	109.70	101.50
3	A1	1066	C	C5-C4-N4	10.24	127.37	120.20
3	A1	1236	A	N9-C4-C5	10.24	109.90	105.80
3	A1	1448	C	N1-C2-N3	10.24	126.37	119.20
25	BB	1299	G	C6-C5-N7	-10.24	124.25	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2314	A	N1-C2-N3	-10.24	124.18	129.30
3	A1	845	A	C5-C6-N1	10.24	122.82	117.70
3	A1	1001	C	N3-C2-O2	-10.24	114.73	121.90
3	A1	1488	G	C5-C6-N1	10.24	116.62	111.50
25	BB	253	C	C5-C4-N4	-10.24	113.03	120.20
25	BB	2541	A	N1-C6-N6	-10.24	112.46	118.60
25	BB	2781	A	C8-N9-C4	-10.24	101.70	105.80
3	A1	1042	A	C4-C5-C6	-10.24	111.88	117.00
3	A1	1177	G	C4-C5-N7	-10.24	106.70	110.80
3	A1	1306	A	N1-C6-N6	-10.24	112.46	118.60
25	BB	933	A	C5-C6-N1	10.24	122.82	117.70
3	A1	867	G	C5-C6-O6	10.23	134.74	128.60
3	A1	209	U	C5-C6-N1	-10.23	117.58	122.70
3	A1	494	G	N1-C6-O6	-10.23	113.76	119.90
3	A1	913	A	N1-C2-N3	-10.23	124.18	129.30
3	A1	1447	A	C5-C6-N1	10.23	122.82	117.70
25	BB	258	G	N7-C8-N9	10.23	118.22	113.10
25	BB	332	A	C3'-C2'-C1'	10.23	109.69	101.50
3	A1	1002	G	N1-C2-N2	10.23	125.41	116.20
25	BB	324	A	C5-C6-N1	10.23	122.81	117.70
25	BB	1609	A	C4-C5-C6	-10.23	111.88	117.00
25	BB	1447	C	N3-C4-N4	-10.23	110.84	118.00
25	BB	1474	U	C4'-C3'-C2'	-10.23	92.37	102.60
25	BB	2565	A	C8-N9-C4	-10.23	101.71	105.80
3	A1	945	G	N3-C2-N2	-10.23	112.74	119.90
25	BB	581	C	N3-C4-N4	-10.23	110.84	118.00
25	BB	654	A	C5-C6-N1	10.23	122.81	117.70
25	BB	1184	U	C5-C6-N1	-10.23	117.59	122.70
25	BB	140	C	N3-C2-O2	-10.23	114.74	121.90
25	BB	457	A	C6-C5-N7	10.23	139.46	132.30
25	BB	1358	G	C4-C5-N7	-10.23	106.71	110.80
25	BB	1547	C	N1-C2-O2	10.23	125.03	118.90
25	BB	2442	C	N3-C2-O2	-10.23	114.74	121.90
3	A1	643	C	C6-N1-C2	-10.22	116.21	120.30
3	A1	673	A	N9-C4-C5	-10.22	101.71	105.80
3	A1	1095	U	N3-C2-O2	-10.22	115.04	122.20
3	A1	1415	G	C8-N9-C4	-10.22	102.31	106.40
25	BB	750	A	C5-C6-N1	10.22	122.81	117.70
25	BB	2429	G	N1-C6-O6	-10.22	113.77	119.90
25	BB	2451	A	C4-C5-C6	-10.22	111.89	117.00
25	BB	2556	C	N3-C4-N4	-10.22	110.84	118.00
3	A1	633	G	N9-C4-C5	-10.22	101.31	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	148	U	N3-C2-O2	-10.22	115.05	122.20
25	BB	442	G	N1-C6-O6	-10.22	113.77	119.90
3	A1	1180	A	C8-N9-C4	-10.22	101.71	105.80
25	BB	674	G	N3-C4-N9	10.22	132.13	126.00
25	BB	2311	A	O4'-C1'-N9	-10.22	100.02	108.20
3	A1	1179	A	C3'-C2'-C1'	10.22	109.67	101.50
24	BA	39	A	C4-C5-C6	-10.22	111.89	117.00
25	BB	279	A	C4-C5-C6	-10.22	111.89	117.00
25	BB	442	G	C5-N7-C8	-10.22	99.19	104.30
46	BW	53	ASP	CB-CG-OD1	10.22	127.50	118.30
3	A1	1021	A	C1'-O4'-C4'	-10.22	101.73	109.90
25	BB	280	U	O4'-C1'-N1	10.22	116.37	108.20
25	BB	1200	C	N3-C2-O2	-10.22	114.75	121.90
25	BB	1304	A	N7-C8-N9	10.22	118.91	113.80
36	BM	56	GLU	OE1-CD-OE2	-10.22	111.04	123.30
25	BB	2433	A	N1-C2-N3	-10.22	124.19	129.30
1	AA	46	G	C5-N7-C8	-10.21	99.19	104.30
1	AE	3	G	C4-C5-N7	-10.21	106.71	110.80
3	A1	1305	G	C5-C6-N1	10.21	116.61	111.50
24	BA	12	C	N3-C2-O2	-10.21	114.75	121.90
25	BB	1230	A	C4-C5-N7	10.21	115.81	110.70
25	BB	1272	A	C3'-C2'-C1'	10.21	109.67	101.50
25	BB	1803	A	C5-C6-N1	10.21	122.81	117.70
27	BD	80	ASP	CB-CG-OD1	10.21	127.49	118.30
38	BO	95	PHE	CB-CG-CD2	10.21	127.95	120.80
3	A1	354	G	C5-C6-N1	10.21	116.61	111.50
3	A1	357	G	N3-C2-N2	10.21	127.05	119.90
3	A1	823	C	C6-N1-C2	-10.21	116.22	120.30
3	A1	704	A	N7-C8-N9	10.21	118.91	113.80
25	BB	2020	A	C5-C6-N1	10.21	122.81	117.70
25	BB	2495	G	N1-C6-O6	-10.21	113.77	119.90
25	BB	2542	A	C8-N9-C4	-10.21	101.72	105.80
25	BB	2141	G	N1-C2-N3	10.21	130.03	123.90
25	BB	2617	U	O4'-C4'-C3'	10.21	114.27	106.10
1	AP	64	A	C4-C5-C6	-10.21	111.90	117.00
3	A1	585	G	C5-C6-N1	10.21	116.60	111.50
25	BB	2263	C	C2-N3-C4	-10.21	114.80	119.90
3	A1	658	C	C4-C5-C6	10.21	122.50	117.40
3	A1	1096	C	N1-C2-O2	10.21	125.03	118.90
25	BB	1633	G	N3-C2-N2	-10.21	112.75	119.90
25	BB	2154	A	C4-C5-C6	-10.21	111.90	117.00
3	A1	328	C	C1'-O4'-C4'	-10.21	101.74	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1033	G	C2-N3-C4	10.20	117.00	111.90
3	A1	1412	C	N3-C2-O2	-10.21	114.76	121.90
25	BB	356	G	C6-C5-N7	10.21	136.52	130.40
25	BB	1298	C	N3-C2-O2	-10.20	114.76	121.90
25	BB	1395	A	C5-C6-N1	10.21	122.80	117.70
3	A1	1027	C	C6-N1-C2	-10.20	116.22	120.30
3	A1	1139	G	C5-C6-N1	10.20	116.60	111.50
3	A1	1336	C	N3-C4-N4	-10.20	110.86	118.00
25	BB	1209	U	N3-C2-O2	-10.20	115.06	122.20
25	BB	2001	C	C5-C6-N1	-10.20	115.90	121.00
25	BB	2054	A	N1-C2-N3	-10.20	124.20	129.30
25	BB	2583	G	C8-N9-C4	-10.20	102.32	106.40
3	A1	347	G	C3'-C2'-C1'	10.20	109.66	101.50
3	A1	356	A	C6-C5-N7	10.20	139.44	132.30
3	A1	970	C	N3-C4-N4	-10.20	110.86	118.00
25	BB	429	A	N7-C8-N9	10.20	118.90	113.80
25	BB	934	U	N1-C2-O2	10.20	129.94	122.80
25	BB	1177	G	C5-C6-O6	10.20	134.72	128.60
25	BB	2025	C	N3-C2-O2	-10.20	114.76	121.90
25	BB	2389	G	N1-C6-O6	-10.20	113.78	119.90
25	BB	1296	G	N3-C4-N9	10.20	132.12	126.00
24	BA	2	G	O4'-C1'-N9	10.20	116.36	108.20
24	BA	52	A	O4'-C1'-N9	-10.20	100.04	108.20
25	BB	677	A	N1-C2-N3	-10.20	124.20	129.30
1	AP	65	G	N3-C4-C5	-10.19	123.50	128.60
24	BA	16	G	C6-C5-N7	10.20	136.52	130.40
25	BB	2818	U	C5-C6-N1	-10.20	117.60	122.70
25	BB	960	A	C8-N9-C4	-10.19	101.72	105.80
25	BB	2487	G	C4'-C3'-C2'	-10.19	92.41	102.60
3	A1	290	C	N3-C2-O2	-10.19	114.77	121.90
25	BB	770	G	C6-C5-N7	10.19	136.51	130.40
25	BB	2224	G	C6-C5-N7	10.19	136.51	130.40
25	BB	2688	G	O4'-C1'-N9	10.19	116.35	108.20
25	BB	2709	G	N9-C4-C5	10.19	109.48	105.40
25	BB	887	U	N3-C2-O2	-10.19	115.07	122.20
25	BB	1886	U	C5'-C4'-O4'	10.19	121.33	109.10
25	BB	2296	U	N1-C2-N3	10.19	121.01	114.90
25	BB	2851	A	N1-C6-N6	-10.19	112.49	118.60
25	BB	1793	C	C1'-O4'-C4'	-10.19	101.75	109.90
1	AA	20	G	C3'-C2'-C1'	10.18	109.65	101.50
1	AA	39	U	N3-C2-O2	-10.18	115.07	122.20
1	AE	60	C	C5-C6-N1	-10.18	115.91	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	28	A	C4-C5-N7	-10.18	105.61	110.70
3	A1	369	G	C2-N3-C4	-10.18	106.81	111.90
3	A1	1509	C	N3-C2-O2	-10.18	114.77	121.90
25	BB	215	G	O4'-C1'-N9	10.18	116.35	108.20
25	BB	515	A	C4-C5-C6	-10.18	111.91	117.00
25	BB	516	C	N3-C4-C5	10.18	125.97	121.90
3	A1	59	A	N7-C8-N9	10.18	118.89	113.80
3	A1	741	G	N9-C4-C5	10.18	109.47	105.40
25	BB	1193	G	C4'-C3'-C2'	-10.18	92.42	102.60
25	BB	1470	A	C5-C6-N1	10.18	122.79	117.70
25	BB	1962	C	N3-C2-O2	-10.18	114.77	121.90
25	BB	2373	G	N3-C2-N2	-10.18	112.77	119.90
35	BL	95	ARG	NE-CZ-NH1	10.18	125.39	120.30
3	A1	21	G	N3-C2-N2	-10.18	112.78	119.90
3	A1	1233	G	C5-N7-C8	10.18	109.39	104.30
3	A1	877	G	N1-C2-N3	10.18	130.00	123.90
3	A1	1482	G	C1'-O4'-C4'	-10.18	101.76	109.90
25	BB	1117	C	N3-C2-O2	-10.18	114.78	121.90
25	BB	1348	C	N1-C2-N3	10.18	126.32	119.20
25	BB	2399	G	N3-C4-C5	-10.18	123.51	128.60
1	AP	26	G	C8-N9-C4	-10.17	102.33	106.40
1	AE	61	C	C5'-C4'-O4'	10.17	121.31	109.10
3	A1	522	C	N3-C4-C5	10.17	125.97	121.90
3	A1	860	A	O4'-C1'-N9	10.17	116.34	108.20
25	BB	98	G	N1-C6-O6	-10.17	113.80	119.90
25	BB	1929	G	C5-N7-C8	-10.17	99.21	104.30
25	BB	2757	A	C4-C5-C6	-10.17	111.91	117.00
25	BB	1430	G	N9-C4-C5	10.17	109.47	105.40
25	BB	2881	U	O4'-C1'-N1	10.17	116.34	108.20
54	B5	102	ARG	NE-CZ-NH2	-10.17	115.21	120.30
3	A1	115	G	N3-C4-C5	-10.17	123.52	128.60
25	BB	786	C	C6-N1-C2	-10.17	116.23	120.30
25	BB	841	G	C3'-C2'-C1'	10.17	109.64	101.50
3	A1	492	C	N1-C2-O2	10.17	125.00	118.90
3	A1	584	G	C6-N1-C2	-10.17	119.00	125.10
3	A1	945	G	N3-C4-N9	10.17	132.10	126.00
24	BA	102	G	N1-C6-O6	-10.17	113.80	119.90
25	BB	927	A	N1-C2-N3	-10.17	124.22	129.30
33	BJ	5	ARG	NE-CZ-NH1	-10.17	115.22	120.30
25	BB	211	C	N3-C2-O2	-10.16	114.79	121.90
25	BB	814	C	N3-C4-C5	10.16	125.97	121.90
25	BB	909	A	C5-N7-C8	-10.16	98.82	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1678	A	C4-C5-C6	-10.16	111.92	117.00
25	BB	1328	A	C4-C5-C6	-10.16	111.92	117.00
25	BB	1806	C	C5-C4-N4	10.16	127.31	120.20
25	BB	2666	C	N3-C2-O2	-10.16	114.79	121.90
3	A1	69	G	N9-C4-C5	10.16	109.47	105.40
3	A1	747	A	C6-C5-N7	10.16	139.41	132.30
3	A1	761	G	N9-C4-C5	10.16	109.46	105.40
24	BA	118	C	C5-C6-N1	-10.16	115.92	121.00
25	BB	1128	G	C4'-C3'-C2'	-10.16	92.44	102.60
25	BB	1414	C	C5-C4-N4	-10.16	113.09	120.20
25	BB	1338	G	N3-C4-N9	10.16	132.09	126.00
25	BB	2841	C	C2-N3-C4	-10.16	114.82	119.90
3	A1	1004	A	C6-N1-C2	-10.16	112.51	118.60
25	BB	1825	U	C5-C4-O4	-10.16	119.81	125.90
1	AA	53	G	N1-C6-O6	-10.15	113.81	119.90
17	AR	46	ARG	NH1-CZ-NH2	-10.15	108.23	119.40
25	BB	793	A	C6-N1-C2	-10.15	112.51	118.60
25	BB	2678	C	C2-N3-C4	-10.15	114.82	119.90
25	BB	2800	A	C4-C5-C6	-10.15	111.92	117.00
3	A1	1413	A	C6-C5-N7	10.15	139.41	132.30
25	BB	558	U	C2-N3-C4	-10.15	120.91	127.00
16	AQ	16	ARG	NE-CZ-NH2	10.15	125.38	120.30
25	BB	628	G	N1-C6-O6	-10.15	113.81	119.90
25	BB	1360	G	N3-C4-C5	-10.15	123.52	128.60
25	BB	1472	C	C6-N1-C2	-10.15	116.24	120.30
25	BB	1784	A	C4-C5-C6	-10.15	111.92	117.00
25	BB	2237	G	N9-C4-C5	10.15	109.46	105.40
25	BB	2288	A	C4-C5-C6	-10.15	111.92	117.00
25	BB	2296	U	C5-C6-N1	-10.15	117.62	122.70
1	AP	43	G	C5-C6-N1	10.15	116.57	111.50
3	A1	1156	G	N1-C2-N3	10.15	129.99	123.90
3	A1	1201	A	N9-C4-C5	10.15	109.86	105.80
3	A1	1310	G	N9-C4-C5	10.15	109.46	105.40
24	BA	75	G	C6-C5-N7	10.15	136.49	130.40
25	BB	1329	U	C4-C5-C6	10.15	125.79	119.70
3	A1	998	C	C2-N3-C4	-10.14	114.83	119.90
3	A1	1511	G	N3-C4-C5	-10.14	123.53	128.60
25	BB	823	C	N1-C2-O2	10.14	124.99	118.90
25	BB	1047	G	C8-N9-C4	-10.14	102.34	106.40
25	BB	2059	A	C4-C5-C6	-10.14	111.93	117.00
25	BB	2131	U	C4-C5-C6	10.14	125.79	119.70
25	BB	2342	C	N3-C2-O2	-10.14	114.80	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1575	C	C4-C5-C6	10.14	122.47	117.40
25	BB	2623	G	C5-C6-N1	10.14	116.57	111.50
1	AP	47	U	N3-C2-O2	-10.14	115.10	122.20
3	A1	557	G	C4-C5-N7	-10.14	106.74	110.80
3	A1	615	G	C2-N3-C4	-10.14	106.83	111.90
3	A1	1198	G	N1-C6-O6	-10.14	113.81	119.90
25	BB	2637	U	O4'-C1'-N1	10.14	116.31	108.20
3	A1	208	U	C5-C6-N1	-10.14	117.63	122.70
3	A1	386	C	N3-C2-O2	-10.14	114.80	121.90
3	A1	1054	C	C2-N3-C4	-10.14	114.83	119.90
3	A1	1160	G	C3'-C2'-C1'	10.14	109.61	101.50
25	BB	2827	C	N1-C2-O2	10.14	124.98	118.90
3	A1	977	A	C5-C6-N1	10.13	122.77	117.70
25	BB	251	A	C5-C6-N1	10.13	122.77	117.70
25	BB	2730	C	N3-C2-O2	-10.14	114.81	121.90
25	BB	1791	A	C1'-O4'-C4'	-10.13	101.79	109.90
25	BB	1791	A	N1-C6-N6	-10.13	112.52	118.60
25	BB	2520	C	N3-C4-C5	10.13	125.95	121.90
3	A1	285	C	C6-N1-C2	-10.13	116.25	120.30
3	A1	441	A	N1-C6-N6	-10.13	112.52	118.60
25	BB	608	A	C4-C5-C6	-10.13	111.93	117.00
3	A1	151	A	C6-N1-C2	-10.13	112.52	118.60
3	A1	587	G	N7-C8-N9	10.13	118.17	113.10
25	BB	10	A	C4-C5-C6	-10.13	111.93	117.00
25	BB	1293	C	C2-N3-C4	-10.13	114.83	119.90
25	BB	2468	A	N1-C2-N3	-10.13	124.23	129.30
3	A1	810	C	N3-C4-N4	-10.13	110.91	118.00
3	A1	1340	A	C2'-C3'-O3'	10.13	131.78	109.50
25	BB	91	A	N7-C8-N9	10.13	118.86	113.80
25	BB	523	C	N3-C4-C5	10.13	125.95	121.90
25	BB	933	A	C4-C5-N7	-10.13	105.64	110.70
25	BB	1011	G	N3-C4-C5	-10.13	123.54	128.60
25	BB	1757	A	N1-C6-N6	-10.13	112.52	118.60
25	BB	2107	G	N7-C8-N9	10.13	118.16	113.10
25	BB	2653	U	N1-C2-N3	10.13	120.98	114.90
3	A1	70	U	O4'-C1'-N1	10.12	116.30	108.20
3	A1	287	U	C5-C4-O4	10.13	131.97	125.90
3	A1	210	C	C5-C6-N1	-10.12	115.94	121.00
3	A1	357	G	C4-C5-N7	10.12	114.85	110.80
3	A1	1408	A	C4-C5-C6	-10.12	111.94	117.00
25	BB	1038	G	N7-C8-N9	10.13	118.16	113.10
25	BB	1449	G	O4'-C1'-N9	10.12	116.30	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1745	A	C5-C6-N1	10.12	122.76	117.70
25	BB	1904	G	N3-C4-C5	-10.12	123.54	128.60
3	A1	461	A	C2-N3-C4	10.12	115.66	110.60
3	A1	929	G	C5-N7-C8	-10.12	99.24	104.30
24	BA	93	C	N1-C2-O2	10.12	124.97	118.90
25	BB	38	A	N1-C2-N3	-10.12	124.24	129.30
25	BB	130	C	C4-C5-C6	10.12	122.46	117.40
25	BB	720	U	C5-C6-N1	-10.12	117.64	122.70
51	B2	172	PHE	CB-CG-CD2	-10.12	113.72	120.80
3	A1	140	U	C5-C4-O4	10.12	131.97	125.90
3	A1	107	G	N3-C2-N2	-10.12	112.82	119.90
25	BB	75	G	N1-C6-O6	-10.12	113.83	119.90
25	BB	361	G	C6-C5-N7	10.12	136.47	130.40
25	BB	939	G	C5-N7-C8	-10.12	99.24	104.30
25	BB	1169	A	N1-C2-N3	-10.12	124.24	129.30
25	BB	309	A	C5-C6-N6	10.12	131.79	123.70
25	BB	2250	G	C5-C6-O6	10.12	134.67	128.60
25	BB	2646	C	N1-C2-N3	10.12	126.28	119.20
25	BB	155	A	C6-C5-N7	10.12	139.38	132.30
25	BB	986	C	C5-C6-N1	-10.12	115.94	121.00
3	A1	117	G	N3-C4-C5	-10.11	123.54	128.60
25	BB	37	C	C4-C5-C6	-10.12	112.34	117.40
25	BB	191	A	O4'-C4'-C3'	10.11	114.19	106.10
25	BB	807	U	C1'-O4'-C4'	-10.12	101.81	109.90
25	BB	838	C	C5-C4-N4	10.12	127.28	120.20
25	BB	841	G	C2-N3-C4	-10.12	106.84	111.90
25	BB	924	G	C2-N3-C4	10.12	116.96	111.90
25	BB	1125	G	N1-C6-O6	-10.11	113.83	119.90
25	BB	1392	A	N7-C8-N9	10.12	118.86	113.80
25	BB	1673	G	C2-N3-C4	-10.12	106.84	111.90
25	BB	2051	A	C4-C5-C6	-10.11	111.94	117.00
25	BB	2412	A	C5-C6-N1	10.11	122.76	117.70
25	BB	2708	G	C4-C5-N7	-10.11	106.75	110.80
1	AE	44	A	C8-N9-C4	-10.11	101.75	105.80
3	A1	1263	C	C4'-C3'-C2'	-10.11	92.49	102.60
3	A1	1449	C	N3-C4-C5	10.11	125.94	121.90
25	BB	108	G	C1'-O4'-C4'	-10.11	101.81	109.90
25	BB	1217	U	C5-C6-N1	-10.11	117.64	122.70
25	BB	1769	U	O4'-C1'-N1	10.11	116.29	108.20
25	BB	2389	G	C5-C6-N1	10.11	116.56	111.50
1	AE	70	C	N3-C4-N4	-10.11	110.92	118.00
3	A1	353	A	C4-C5-C6	-10.11	111.95	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	765	G	C5'-C4'-C3'	-10.11	99.83	116.00
3	A1	978	A	N1-C6-N6	-10.11	112.53	118.60
3	A1	1220	G	C1'-O4'-C4'	10.11	117.99	109.90
25	BB	595	C	C5-C6-N1	-10.11	115.95	121.00
25	BB	845	A	C5-N7-C8	-10.11	98.85	103.90
3	A1	668	G	C6-N1-C2	-10.11	119.04	125.10
3	A1	758	C	C5-C6-N1	-10.11	115.95	121.00
3	A1	1235	U	C4-C5-C6	10.11	125.76	119.70
3	A1	1377	A	C8-N9-C4	-10.11	101.76	105.80
25	BB	206	U	C6-N1-C2	-10.11	114.94	121.00
25	BB	1450	G	N3-C4-C5	-10.11	123.55	128.60
25	BB	1464	G	N3-C2-N2	-10.11	112.83	119.90
25	BB	60	G	C2-N3-C4	-10.11	106.85	111.90
25	BB	2279	G	O4'-C1'-N9	10.11	116.28	108.20
3	A1	802	A	N7-C8-N9	10.10	118.85	113.80
3	A1	1082	A	O4'-C1'-N9	10.10	116.28	108.20
52	B3	150	TYR	CB-CG-CD1	10.10	127.06	121.00
1	AP	42	G	N3-C2-N2	-10.10	112.83	119.90
1	AP	71	G	C5'-C4'-O4'	10.10	121.22	109.10
1	AE	56	C	O4'-C1'-N1	10.10	116.28	108.20
3	A1	444	G	C4-C5-N7	-10.10	106.76	110.80
25	BB	1315	C	N3-C4-C5	10.10	125.94	121.90
3	A1	824	G	C2-N3-C4	10.10	116.95	111.90
25	BB	717	C	C5-C6-N1	-10.10	115.95	121.00
25	BB	1706	C	N3-C4-C5	10.10	125.94	121.90
25	BB	2148	G	C2-N3-C4	10.10	116.95	111.90
1	AA	43	G	N1-C6-O6	-10.10	113.84	119.90
3	A1	128	G	O4'-C4'-C3'	10.10	114.18	106.10
3	A1	191	G	C5'-C4'-O4'	10.10	121.22	109.10
3	A1	638	U	N1-C2-O2	10.10	129.87	122.80
3	A1	1279	G	C5-N7-C8	-10.10	99.25	104.30
25	BB	517	C	C2-N3-C4	-10.10	114.85	119.90
25	BB	972	A	N1-C6-N6	-10.10	112.54	118.60
25	BB	2323	G	N1-C6-O6	-10.10	113.84	119.90
3	A1	1019	A	N1-C6-N6	-10.10	112.54	118.60
25	BB	39	G	C2-N3-C4	-10.10	106.85	111.90
25	BB	540	C	C6-N1-C2	-10.10	116.26	120.30
25	BB	869	G	O4'-C1'-N9	10.10	116.28	108.20
25	BB	1446	C	N3-C2-O2	-10.10	114.83	121.90
50	B1	117	ARG	NH1-CZ-NH2	-10.10	108.29	119.40
25	BB	2428	G	C6-C5-N7	10.10	136.46	130.40
25	BB	2503	A	O4'-C1'-N9	10.10	116.28	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	7	U	O4'-C1'-N1	10.09	116.28	108.20
25	BB	481	G	C4-C5-C6	-10.09	112.74	118.80
25	BB	1266	G	C1'-O4'-C4'	-10.09	101.83	109.90
25	BB	1399	C	O4'-C1'-N1	10.09	116.28	108.20
25	BB	802	A	C5-C6-N6	10.09	131.77	123.70
25	BB	996	A	N1-C6-N6	-10.09	112.54	118.60
25	BB	1303	G	N3-C2-N2	-10.09	112.83	119.90
25	BB	2050	C	N1-C2-O2	10.09	124.96	118.90
25	BB	2662	A	C4-C5-N7	10.09	115.75	110.70
25	BB	2811	G	N1-C6-O6	-10.09	113.84	119.90
3	A1	769	G	C3'-C2'-C1'	-10.09	93.43	101.50
3	A1	1501	C	N1-C2-N3	10.09	126.26	119.20
24	BA	37	C	N3-C4-C5	10.09	125.94	121.90
25	BB	845	A	C2-N3-C4	10.09	115.64	110.60
25	BB	2495	G	O4'-C1'-N9	10.09	116.27	108.20
25	BB	2652	C	N1-C2-O2	10.09	124.95	118.90
34	BK	90	ARG	NE-CZ-NH1	10.09	125.35	120.30
3	A1	422	C	N3-C2-O2	-10.09	114.84	121.90
25	BB	1022	G	N7-C8-N9	10.09	118.14	113.10
25	BB	1075	C	C2-N3-C4	-10.09	114.86	119.90
25	BB	2737	G	N1-C2-N3	10.09	129.95	123.90
25	BB	551	G	C5-C6-N1	10.09	116.54	111.50
25	BB	1370	C	C4-C5-C6	-10.09	112.36	117.40
25	BB	2738	A	C4-C5-C6	-10.09	111.96	117.00
25	BB	1292	G	C2-N3-C4	10.08	116.94	111.90
25	BB	1386	C	N3-C2-O2	-10.08	114.84	121.90
25	BB	1571	A	N9-C4-C5	10.08	109.83	105.80
25	BB	1915	U	C2-N3-C4	-10.08	120.95	127.00
25	BB	1927	A	C5-C6-N1	10.08	122.74	117.70
24	BA	14	U	N1-C2-N3	10.08	120.95	114.90
25	BB	1125	G	N7-C8-N9	10.08	118.14	113.10
25	BB	1587	G	C5-N7-C8	-10.08	99.26	104.30
25	BB	1767	G	N7-C8-N9	10.08	118.14	113.10
25	BB	2578	G	N1-C6-O6	-10.08	113.85	119.90
25	BB	1655	A	C5-N7-C8	10.08	108.94	103.90
25	BB	2868	A	C6-N1-C2	-10.08	112.55	118.60
1	AP	53	G	N1-C6-O6	-10.08	113.85	119.90
3	A1	938	A	C5'-C4'-O4'	10.08	121.19	109.10
3	A1	995	C	N1-C2-O2	10.08	124.94	118.90
24	BA	107	G	N3-C2-N2	-10.08	112.85	119.90
25	BB	1117	C	C6-N1-C2	-10.08	116.27	120.30
25	BB	1785	A	O4'-C1'-C2'	-10.08	95.72	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2142	A	C5-C6-N1	10.08	122.74	117.70
25	BB	2275	C	N3-C2-O2	-10.08	114.85	121.90
25	BB	2490	G	O4'-C1'-N9	10.08	116.26	108.20
25	BB	2512	C	N3-C2-O2	-10.08	114.84	121.90
46	BW	44	ARG	NE-CZ-NH1	10.08	125.34	120.30
2	AM	12	U	C5-C6-N1	-10.07	117.66	122.70
3	A1	113	G	N9-C4-C5	10.07	109.43	105.40
3	A1	301	G	C1'-O4'-C4'	-10.07	101.84	109.90
3	A1	599	C	C2-N3-C4	-10.07	114.86	119.90
3	A1	1392	G	C4-C5-N7	-10.07	106.77	110.80
25	BB	1382	G	N3-C2-N2	-10.07	112.85	119.90
3	A1	384	G	N1-C6-O6	-10.07	113.86	119.90
3	A1	436	C	C3'-C2'-C1'	10.07	109.56	101.50
3	A1	938	A	C5-C6-N1	10.07	122.74	117.70
25	BB	308	G	N3-C4-C5	-10.07	123.56	128.60
25	BB	1078	U	N3-C2-O2	-10.07	115.15	122.20
25	BB	1987	A	C6-C5-N7	10.07	139.35	132.30
25	BB	2373	G	N9-C4-C5	-10.07	101.37	105.40
49	BZ	153	ARG	NE-CZ-NH2	10.07	125.34	120.30
3	A1	824	G	C8-N9-C4	-10.07	102.37	106.40
3	A1	1151	A	C4-C5-C6	-10.07	111.96	117.00
15	AO	87	ARG	NE-CZ-NH2	10.07	125.33	120.30
25	BB	590	A	C4-C5-C6	-10.07	111.96	117.00
25	BB	2054	A	C5-C6-N1	10.07	122.74	117.70
25	BB	2430	A	C4-C5-C6	-10.07	111.96	117.00
25	BB	2635	A	C5-C6-N1	10.07	122.73	117.70
25	BB	1144	A	C4-C5-C6	-10.07	111.97	117.00
25	BB	1272	A	N1-C6-N6	-10.07	112.56	118.60
25	BB	2280	G	C5-C6-O6	10.07	134.64	128.60
3	A1	80	A	C5-C6-N1	10.07	122.73	117.70
3	A1	1297	G	C6-C5-N7	10.07	136.44	130.40
1	AE	10	G	C5-C6-N1	10.07	116.53	111.50
3	A1	1171	A	C5-C6-N1	10.07	122.73	117.70
25	BB	199	A	C4'-C3'-C2'	-10.07	92.53	102.60
25	BB	201	C	N3-C4-N4	-10.07	110.95	118.00
25	BB	407	G	N1-C6-O6	-10.07	113.86	119.90
25	BB	952	G	C5-C6-N1	10.07	116.53	111.50
25	BB	2035	G	N3-C4-C5	-10.07	123.57	128.60
25	BB	2439	A	C3'-C2'-C1'	10.07	109.55	101.50
25	BB	1872	A	C5-C6-N1	10.06	122.73	117.70
6	AD	13	ARG	NE-CZ-NH2	10.06	125.33	120.30
25	BB	676	A	C6-C5-N7	10.06	139.34	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	698	C	O4'-C1'-N1	10.06	116.25	108.20
1	AA	54	U	C6-N1-C2	-10.06	114.96	121.00
3	A1	88	U	C5-C4-O4	-10.06	119.86	125.90
3	A1	677	U	N1-C2-N3	10.06	120.94	114.90
3	A1	861	G	N1-C6-O6	-10.06	113.86	119.90
3	A1	938	A	C5-C6-N6	10.06	131.75	123.70
3	A1	966	G	N9-C4-C5	10.06	109.42	105.40
25	BB	825	A	O4'-C4'-C3'	10.06	114.15	106.10
25	BB	988	A	C5'-C4'-O4'	10.06	121.17	109.10
25	BB	1408	G	C5-C6-N1	10.06	116.53	111.50
25	BB	1820	U	N3-C2-O2	-10.06	115.16	122.20
25	BB	1952	A	N3-C4-C5	10.06	133.84	126.80
32	BI	92	ARG	NE-CZ-NH1	10.06	125.33	120.30
3	A1	1143	G	N1-C6-O6	-10.06	113.86	119.90
1	AE	6	U	N1-C2-N3	10.06	120.93	114.90
3	A1	205	A	N1-C2-N3	-10.06	124.27	129.30
3	A1	227	G	N9-C4-C5	10.06	109.42	105.40
3	A1	1226	C	N1-C2-N3	10.06	126.24	119.20
25	BB	249	C	C5-C6-N1	-10.06	115.97	121.00
25	BB	943	A	C5-C6-N6	10.06	131.75	123.70
25	BB	1026	G	C1'-O4'-C4'	-10.06	101.85	109.90
25	BB	1226	A	C5-C6-N6	10.06	131.75	123.70
25	BB	1951	U	C4-C5-C6	10.06	125.73	119.70
25	BB	2695	U	C5-C6-N1	-10.06	117.67	122.70
3	A1	1372	U	N3-C2-O2	-10.06	115.16	122.20
25	BB	493	G	C4-C5-N7	-10.06	106.78	110.80
25	BB	2462	C	C6-N1-C2	-10.06	116.28	120.30
49	BZ	75	TYR	CG-CD2-CE2	-10.06	113.25	121.30
25	BB	412	A	N7-C8-N9	10.05	118.83	113.80
25	BB	793	A	C5'-C4'-O4'	10.05	121.17	109.10
3	A1	668	G	C2-N3-C4	10.05	116.93	111.90
3	A1	772	U	C5-C4-O4	-10.05	119.87	125.90
24	BA	18	G	N9-C4-C5	10.05	109.42	105.40
25	BB	60	G	C5-C6-O6	10.05	134.63	128.60
25	BB	2286	G	O4'-C1'-N9	10.05	116.24	108.20
3	A1	6	G	C5-C6-N1	10.05	116.52	111.50
3	A1	429	U	N1-C1'-C2'	10.05	127.06	114.00
3	A1	541	G	N3-C4-C5	-10.05	123.58	128.60
3	A1	1195	C	N3-C4-N4	-10.05	110.97	118.00
3	A1	1272	G	C5-C6-O6	10.05	134.63	128.60
3	A1	1446	A	C3'-C2'-C1'	-10.05	93.46	101.50
25	BB	162	U	C2-N3-C4	-10.05	120.97	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1121	C	N3-C2-O2	-10.05	114.87	121.90
25	BB	1913	A	C5-C6-N1	10.05	122.72	117.70
25	BB	2557	G	C4-C5-C6	-10.05	112.77	118.80
3	A1	241	G	C5-C6-N1	10.05	116.52	111.50
21	AV	12	ARG	NE-CZ-NH1	10.05	125.32	120.30
25	BB	714	U	N1-C2-N3	10.05	120.93	114.90
3	A1	44	A	C5-C6-N6	10.04	131.74	123.70
3	A1	363	A	C5-C6-N1	10.04	122.72	117.70
3	A1	714	G	C2-N3-C4	10.04	116.92	111.90
3	A1	1472	U	C5-C6-N1	-10.04	117.68	122.70
24	BA	18	G	C8-N9-C4	-10.04	102.38	106.40
25	BB	55	G	N3-C2-N2	-10.04	112.87	119.90
25	BB	172	A	C8-N9-C4	10.04	109.82	105.80
25	BB	2280	G	N7-C8-N9	10.05	118.12	113.10
25	BB	396	G	C8-N9-C4	-10.04	102.38	106.40
25	BB	961	C	N3-C4-C5	10.04	125.92	121.90
25	BB	1195	G	N3-C2-N2	-10.04	112.87	119.90
3	A1	786	G	N1-C6-O6	-10.04	113.87	119.90
25	BB	186	G	C8-N9-C4	-10.04	102.38	106.40
25	BB	443	A	N1-C6-N6	-10.04	112.58	118.60
25	BB	1559	U	N3-C2-O2	-10.04	115.17	122.20
1	AA	56	C	C4'-C3'-C2'	-10.04	92.56	102.60
3	A1	1177	G	C5-C6-N1	10.04	116.52	111.50
3	A1	1266	G	C2-N3-C4	-10.04	106.88	111.90
3	A1	1457	G	C5-C6-O6	10.04	134.62	128.60
25	BB	377	G	C6-N1-C2	-10.04	119.08	125.10
25	BB	666	A	C5-C6-N6	10.04	131.73	123.70
25	BB	1841	U	N3-C2-O2	-10.04	115.17	122.20
25	BB	2302	U	O4'-C1'-N1	10.04	116.23	108.20
3	A1	184	G	N3-C2-N2	-10.04	112.87	119.90
3	A1	246	A	C3'-C2'-C1'	10.04	109.53	101.50
3	A1	945	G	N1-C6-O6	-10.04	113.88	119.90
25	BB	18	U	N3-C2-O2	-10.04	115.17	122.20
25	BB	505	A	C4-C5-C6	-10.04	111.98	117.00
25	BB	1838	C	N1-C2-O2	10.04	124.92	118.90
3	A1	611	C	O4'-C1'-N1	10.04	116.23	108.20
3	A1	1008	U	C1'-O4'-C4'	-10.04	101.87	109.90
3	A1	1249	C	C4-C5-C6	10.04	122.42	117.40
25	BB	412	A	C3'-C2'-C1'	10.03	109.53	101.50
25	BB	541	A	O4'-C1'-N9	10.04	116.23	108.20
25	BB	1120	G	N1-C2-N2	-10.03	107.17	116.20
25	BB	1125	G	C5-N7-C8	-10.04	99.28	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1340	U	C5-C6-N1	-10.03	117.68	122.70
25	BB	2102	G	C4-C5-C6	-10.03	112.78	118.80
25	BB	2569	G	N1-C6-O6	-10.04	113.88	119.90
3	A1	23	C	O4'-C1'-N1	10.03	116.23	108.20
3	A1	264	C	N3-C4-N4	-10.03	110.98	118.00
25	BB	1342	A	N1-C2-N3	-10.03	124.28	129.30
25	BB	79	C	C6-N1-C2	-10.03	116.29	120.30
25	BB	1394	U	N3-C4-C5	-10.03	108.58	114.60
25	BB	282	A	C5-C6-N6	10.03	131.72	123.70
25	BB	2639	A	C5-C6-N1	10.03	122.72	117.70
3	A1	881	G	C6-N1-C2	-10.03	119.08	125.10
25	BB	909	A	N1-C6-N6	-10.03	112.58	118.60
25	BB	1475	G	C8-N9-C4	-10.03	102.39	106.40
3	A1	171	A	C4-C5-C6	-10.03	111.99	117.00
3	A1	366	A	C6-C5-N7	10.03	139.32	132.30
3	A1	398	U	C5-C6-N1	-10.03	117.69	122.70
3	A1	562	U	C5'-C4'-O4'	-10.03	97.07	109.10
25	BB	1648	U	C5-C6-N1	-10.03	117.69	122.70
3	A1	1424	U	O4'-C1'-N1	10.03	116.22	108.20
25	BB	659	G	N1-C2-N3	10.03	129.91	123.90
25	BB	1905	C	C3'-C2'-C1'	10.03	109.52	101.50
25	BB	2091	C	O4'-C1'-N1	10.03	116.22	108.20
25	BB	2134	A	C5-C6-N6	10.03	131.72	123.70
25	BB	2233	U	C4-C5-C6	10.03	125.72	119.70
25	BB	2709	G	O4'-C1'-N9	10.03	116.22	108.20
25	BB	2902	C	N3-C4-C5	10.03	125.91	121.90
25	BB	974	G	C8-N9-C4	-10.02	102.39	106.40
25	BB	2478	A	C5'-C4'-O4'	10.02	121.13	109.10
52	B3	2	ARG	NE-CZ-NH2	-10.02	115.29	120.30
3	A1	518	C	N3-C2-O2	-10.02	114.88	121.90
3	A1	1172	C	N3-C4-C5	10.02	125.91	121.90
3	A1	1439	G	C5-C6-N1	10.02	116.51	111.50
25	BB	763	G	C3'-C2'-C1'	10.02	109.52	101.50
25	BB	2107	G	N3-C4-C5	-10.02	123.59	128.60
25	BB	2810	A	C5-C6-N1	10.02	122.71	117.70
25	BB	766	U	N1-C2-O2	10.02	129.81	122.80
25	BB	2625	G	C4-C5-N7	10.02	114.81	110.80
3	A1	84	U	O4'-C1'-N1	10.02	116.22	108.20
24	BA	86	G	N3-C2-N2	-10.02	112.89	119.90
1	AE	66	A	O4'-C1'-N9	10.02	116.22	108.20
3	A1	129	A	C4'-C3'-C2'	-10.02	92.58	102.60
25	BB	128	C	N1-C2-O2	10.02	124.91	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	655	A	N7-C8-N9	-10.02	108.79	113.80
25	BB	1508	A	C2-N3-C4	10.02	115.61	110.60
25	BB	1631	G	C4-C5-N7	-10.02	106.79	110.80
25	BB	2353	G	C4-C5-N7	-10.02	106.79	110.80
1	AA	33	U	N3-C4-O4	10.02	126.41	119.40
25	BB	398	C	C3'-C2'-C1'	10.02	109.51	101.50
25	BB	1802	A	C4-C5-C6	-10.02	111.99	117.00
30	BG	46	ARG	NE-CZ-NH1	10.02	125.31	120.30
3	A1	397	A	N1-C2-N3	-10.01	124.29	129.30
3	A1	1363	A	O4'-C1'-N9	10.01	116.21	108.20
25	BB	265	A	C1'-O4'-C4'	-10.01	101.89	109.90
25	BB	1327	A	C6-C5-N7	10.01	139.31	132.30
3	A1	181	A	C4-C5-C6	-10.01	111.99	117.00
1	AP	43	G	N1-C6-O6	-10.01	113.89	119.90
3	A1	684	U	O4'-C1'-C2'	-10.01	95.79	105.80
17	AR	181	PHE	CB-CG-CD1	-10.01	113.79	120.80
24	BA	117	G	N1-C2-N3	10.01	129.91	123.90
25	BB	208	C	C6-N1-C2	-10.01	116.30	120.30
25	BB	2181	U	C5-C6-N1	-10.01	117.70	122.70
25	BB	2234	G	C4-C5-N7	-10.01	106.80	110.80
3	A1	30	U	O4'-C1'-N1	10.01	116.21	108.20
25	BB	1572	A	C2-N3-C4	10.01	115.60	110.60
1	AP	19	G	O4'-C1'-N9	10.01	116.20	108.20
3	A1	263	A	C6-N1-C2	-10.01	112.60	118.60
3	A1	724	G	N9-C4-C5	10.01	109.40	105.40
25	BB	1620	G	O4'-C1'-N9	10.01	116.21	108.20
25	BB	2047	C	C2-N3-C4	-10.01	114.90	119.90
3	A1	840	C	N3-C2-O2	-10.01	114.90	121.90
3	A1	1263	C	C2-N3-C4	-10.01	114.90	119.90
24	BA	11	C	C6-N1-C2	-10.01	116.30	120.30
24	BA	15	A	N1-C2-N3	10.00	134.30	129.30
24	BA	112	G	O4'-C4'-C3'	10.00	114.10	106.10
25	BB	278	A	C5-C6-N6	10.00	131.70	123.70
25	BB	1079	C	N1-C2-O2	10.00	124.90	118.90
25	BB	939	G	C8-N9-C4	-10.00	102.40	106.40
1	AA	27	C	O4'-C1'-N1	10.00	116.20	108.20
19	AT	38	ARG	NE-CZ-NH2	10.00	125.30	120.30
1	AE	19	G	N1-C2-N2	-10.00	107.20	116.20
25	BB	1331	G	C8-N9-C4	-10.00	102.40	106.40
25	BB	2838	G	N1-C2-N3	10.00	129.90	123.90
25	BB	701	G	N3-C2-N2	-10.00	112.90	119.90
25	BB	2301	C	N3-C4-C5	10.00	125.90	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
27	BD	31	ARG	CD-NE-CZ	10.00	137.59	123.60
3	A1	1250	A	C5-C6-N1	9.99	122.70	117.70
25	BB	362	A	C5-C6-N1	9.99	122.70	117.70
25	BB	1004	U	C5-C4-O4	-9.99	119.90	125.90
25	BB	1908	C	N3-C4-C5	9.99	125.90	121.90
1	AA	22	G	C3'-C2'-C1'	-9.99	93.51	101.50
3	A1	1286	U	C5'-C4'-O4'	9.99	121.09	109.10
25	BB	382	A	C2-N3-C4	9.99	115.59	110.60
25	BB	1244	A	C5-C6-N6	9.99	131.69	123.70
25	BB	2216	G	N9-C4-C5	-9.99	101.40	105.40
25	BB	2412	A	C5-C6-N6	9.99	131.69	123.70
25	BB	451	U	C4-C5-C6	9.99	125.69	119.70
25	BB	530	G	C5-C6-N1	9.99	116.49	111.50
25	BB	1296	G	N3-C4-C5	-9.99	123.61	128.60
25	BB	643	A	C6-C5-N7	9.99	139.29	132.30
25	BB	822	G	C4-C5-N7	9.99	114.80	110.80
31	BH	25	ARG	NH1-CZ-NH2	-9.99	108.41	119.40
1	AA	23	A	N1-C6-N6	-9.98	112.61	118.60
3	A1	384	G	C4-C5-N7	-9.98	106.81	110.80
3	A1	388	G	N9-C4-C5	9.98	109.39	105.40
3	A1	1298	U	C5-C6-N1	-9.98	117.71	122.70
3	A1	710	G	C8-N9-C4	-9.98	102.41	106.40
25	BB	1163	G	N3-C2-N2	-9.98	112.91	119.90
43	BT	16	ARG	NH1-CZ-NH2	-9.98	108.42	119.40
1	AA	35	A	C6-C5-N7	9.98	139.29	132.30
3	A1	1038	C	N3-C2-O2	-9.98	114.91	121.90
3	A1	1110	A	N9-C4-C5	9.98	109.79	105.80
25	BB	1603	A	C6-C5-N7	9.98	139.29	132.30
25	BB	2099	U	C2-N3-C4	-9.98	121.01	127.00
25	BB	2422	C	C2-N3-C4	-9.98	114.91	119.90
3	A1	43	C	N3-C4-N4	-9.98	111.02	118.00
3	A1	348	G	C5-N7-C8	-9.98	99.31	104.30
3	A1	731	G	C5-C6-N1	9.98	116.49	111.50
3	A1	1305	G	N3-C4-N9	9.98	131.99	126.00
25	BB	49	A	C4-C5-C6	-9.98	112.01	117.00
25	BB	160	A	C3'-C2'-C1'	-9.98	93.52	101.50
25	BB	261	G	C6-C5-N7	9.98	136.39	130.40
25	BB	648	G	N3-C4-C5	-9.98	123.61	128.60
25	BB	2414	G	N3-C2-N2	-9.98	112.92	119.90
25	BB	2448	A	N1-C6-N6	-9.98	112.61	118.60
25	BB	1479	G	C1'-O4'-C4'	-9.98	101.92	109.90
25	BB	2336	A	C2-N3-C4	9.98	115.59	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2357	G	C4-C5-C6	-9.98	112.81	118.80
1	AA	25	C	N3-C4-C5	9.97	125.89	121.90
25	BB	1437	C	N3-C2-O2	-9.97	114.92	121.90
20	AU	3	ARG	NE-CZ-NH1	9.97	125.29	120.30
25	BB	104	A	C5-C6-N1	9.97	122.69	117.70
25	BB	1071	G	O4'-C1'-N9	9.97	116.18	108.20
25	BB	1809	A	C2-N3-C4	9.97	115.59	110.60
25	BB	1944	U	N1-C2-O2	9.97	129.78	122.80
25	BB	2525	G	N7-C8-N9	9.97	118.09	113.10
25	BB	2863	C	N3-C4-N4	-9.97	111.02	118.00
3	A1	599	C	N3-C4-N4	-9.97	111.02	118.00
25	BB	412	A	C4'-C3'-C2'	-9.97	92.63	102.60
25	BB	512	G	C8-N9-C4	-9.97	102.41	106.40
25	BB	607	U	O4'-C1'-N1	9.97	116.18	108.20
25	BB	827	U	C5-C6-N1	-9.97	117.71	122.70
25	BB	1685	C	N3-C4-N4	-9.97	111.02	118.00
25	BB	1728	C	C2-N3-C4	-9.97	114.92	119.90
25	BB	2215	C	C4'-C3'-C2'	-9.97	92.63	102.60
25	BB	2440	C	C4-C5-C6	-9.97	112.41	117.40
1	AA	75	C	C6-N1-C2	-9.97	116.31	120.30
3	A1	1511	G	C8-N9-C4	-9.97	102.41	106.40
25	BB	2554	U	C5-C6-N1	-9.97	117.72	122.70
3	A1	946	A	C5-C6-N1	9.97	122.68	117.70
3	A1	1435	G	C6-N1-C2	-9.97	119.12	125.10
25	BB	1868	C	C5-C6-N1	-9.97	116.02	121.00
25	BB	492	A	C6-N1-C2	-9.97	112.62	118.60
25	BB	1439	A	C6-C5-N7	9.97	139.28	132.30
25	BB	1690	A	N1-C2-N3	-9.97	124.32	129.30
25	BB	2683	C	N3-C2-O2	-9.97	114.92	121.90
25	BB	2740	A	C5-C6-N6	9.96	131.67	123.70
3	A1	1507	A	C6-N1-C2	9.96	124.58	118.60
25	BB	1539	U	N1-C2-N3	9.96	120.88	114.90
24	BA	44	G	N3-C2-N2	-9.96	112.93	119.90
25	BB	5	A	C5'-C4'-O4'	9.96	121.05	109.10
25	BB	1090	A	C4-C5-C6	-9.96	112.02	117.00
25	BB	1477	A	N1-C2-N3	-9.96	124.32	129.30
25	BB	1481	U	N3-C2-O2	-9.96	115.23	122.20
1	AP	22	G	C8-N9-C4	-9.96	102.42	106.40
3	A1	32	A	C4-C5-C6	-9.96	112.02	117.00
3	A1	36	C	O4'-C1'-N1	9.96	116.17	108.20
3	A1	152	A	C3'-C2'-C1'	9.96	109.47	101.50
3	A1	676	A	C6-C5-N7	9.96	139.27	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	96	C	C4'-C3'-C2'	-9.96	92.64	102.60
4	AB	136	ARG	NE-CZ-NH1	9.96	125.28	120.30
3	A1	273	U	O4'-C1'-N1	9.96	116.17	108.20
25	BB	1746	A	C4-C5-C6	-9.96	112.02	117.00
3	A1	374	A	O4'-C1'-N9	9.95	116.16	108.20
3	A1	782	A	C5-C6-N6	9.96	131.66	123.70
3	A1	849	G	N3-C4-N9	9.96	131.97	126.00
3	A1	1370	G	C5-C6-N1	9.96	116.48	111.50
3	A1	1482	G	N3-C2-N2	-9.96	112.93	119.90
24	BA	55	U	N1-C2-N3	9.96	120.87	114.90
25	BB	1715	G	N7-C8-N9	9.96	118.08	113.10
25	BB	104	A	C5-N7-C8	-9.95	98.92	103.90
25	BB	288	U	O4'-C1'-N1	9.95	116.16	108.20
25	BB	2394	C	C3'-C2'-C1'	9.96	109.46	101.50
25	BB	2540	C	C2-N3-C4	-9.95	114.92	119.90
3	A1	276	G	C5-C6-N1	9.95	116.48	111.50
3	A1	849	G	N9-C4-C5	-9.95	101.42	105.40
25	BB	103	A	P-O3'-C3'	9.95	131.64	119.70
25	BB	486	C	C2-N3-C4	-9.95	114.92	119.90
25	BB	549	G	N1-C6-O6	-9.95	113.93	119.90
25	BB	2797	U	N3-C2-O2	-9.95	115.23	122.20
3	A1	1082	A	C4-C5-C6	-9.95	112.03	117.00
25	BB	1047	G	C4-C5-N7	-9.95	106.82	110.80
25	BB	1265	A	C4-C5-N7	9.95	115.67	110.70
25	BB	1865	U	C5-C6-N1	-9.95	117.73	122.70
25	BB	2456	C	N1-C2-O2	-9.95	112.93	118.90
3	A1	424	G	N7-C8-N9	9.95	118.07	113.10
3	A1	443	C	C5'-C4'-O4'	9.95	121.03	109.10
3	A1	511	C	N3-C2-O2	-9.95	114.94	121.90
25	BB	285	G	C5-C6-O6	-9.95	122.63	128.60
25	BB	1576	U	C1'-O4'-C4'	-9.95	101.94	109.90
25	BB	2429	G	C6-C5-N7	9.95	136.37	130.40
3	A1	910	C	C5-C6-N1	-9.94	116.03	121.00
3	A1	1066	C	C5-C6-N1	-9.95	116.03	121.00
25	BB	229	C	N3-C4-N4	-9.95	111.04	118.00
25	BB	1878	G	N7-C8-N9	9.95	118.07	113.10
25	BB	2265	U	C2-N3-C4	-9.95	121.03	127.00
25	BB	703	U	O4'-C4'-C3'	9.94	114.06	106.10
25	BB	1562	U	O4'-C1'-N1	9.94	116.16	108.20
25	BB	2456	C	N1-C2-N3	9.94	126.16	119.20
25	BB	1020	A	C5-N7-C8	9.94	108.87	103.90
1	AA	37	G	C3'-C2'-C1'	-9.94	93.55	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1168	G	C8-N9-C4	-9.94	102.42	106.40
25	BB	1189	A	C5-C6-N6	9.94	131.65	123.70
25	BB	261	G	C4'-C3'-C2'	-9.94	92.66	102.60
3	A1	294	U	O4'-C1'-N1	9.94	116.15	108.20
3	A1	1340	A	OP1-P-OP2	-9.94	104.69	119.60
3	A1	1359	C	N3-C2-O2	-9.94	114.94	121.90
25	BB	1327	A	C8-N9-C4	-9.94	101.83	105.80
25	BB	1855	U	N1-C2-N3	9.94	120.86	114.90
26	BC	21	ARG	NE-CZ-NH1	9.94	125.27	120.30
25	BB	2626	C	N3-C2-O2	-9.94	114.94	121.90
25	BB	1566	A	O4'-C1'-N9	9.94	116.15	108.20
25	BB	1671	U	C5-C6-N1	-9.94	117.73	122.70
25	BB	782	A	N7-C8-N9	9.94	118.77	113.80
25	BB	2101	A	C5-N7-C8	-9.94	98.93	103.90
25	BB	2319	G	O4'-C1'-N9	9.94	116.15	108.20
1	AA	1	G	N1-C2-N3	9.93	129.86	123.90
3	A1	236	A	O4'-C4'-C3'	9.93	114.05	106.10
3	A1	896	C	N3-C2-O2	-9.93	114.95	121.90
25	BB	72	U	N1-C2-O2	9.93	129.75	122.80
25	BB	2893	A	N1-C2-N3	-9.93	124.33	129.30
28	BE	18	ARG	NH1-CZ-NH2	-9.93	108.47	119.40
3	A1	884	U	C1'-O4'-C4'	-9.93	101.95	109.90
3	A1	136	C	N3-C2-O2	-9.93	114.95	121.90
25	BB	159	G	C5-N7-C8	-9.93	99.33	104.30
25	BB	1248	G	C5-C6-N1	9.93	116.47	111.50
25	BB	1389	G	N3-C4-N9	9.93	131.96	126.00
25	BB	1520	U	N3-C2-O2	-9.93	115.25	122.20
3	A1	979	C	N3-C4-C5	9.93	125.87	121.90
3	A1	1057	G	N1-C6-O6	-9.93	113.94	119.90
25	BB	481	G	N1-C6-O6	-9.93	113.94	119.90
21	AV	113	ARG	CD-NE-CZ	9.93	137.50	123.60
25	BB	380	G	C6-C5-N7	9.93	136.36	130.40
3	A1	5	U	O4'-C1'-N1	9.93	116.14	108.20
3	A1	341	C	C6-N1-C2	-9.93	116.33	120.30
3	A1	1013	G	C8-N9-C4	-9.93	102.43	106.40
3	A1	1097	C	C2-N3-C4	-9.93	114.94	119.90
3	A1	1481	U	C5-C6-N1	-9.93	117.74	122.70
25	BB	754	U	C5-C6-N1	-9.93	117.74	122.70
25	BB	959	A	C2-N3-C4	9.93	115.56	110.60
25	BB	1536	C	N3-C2-O2	-9.93	114.95	121.90
25	BB	1969	A	C4-C5-C6	-9.93	112.04	117.00
25	BB	2136	G	C6-N1-C2	-9.93	119.14	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	378	G	C6-N1-C2	-9.92	119.15	125.10
3	A1	775	G	C5-C6-N1	9.92	116.46	111.50
25	BB	1605	C	N3-C4-C5	9.92	125.87	121.90
25	BB	2166	U	C4-C5-C6	9.92	125.65	119.70
3	A1	1003	G	C4-C5-N7	-9.92	106.83	110.80
25	BB	32	C	C2-N3-C4	-9.92	114.94	119.90
25	BB	249	C	C6-N1-C2	9.92	124.27	120.30
3	A1	607	A	C4-C5-C6	-9.92	112.04	117.00
25	BB	556	A	O4'-C1'-N9	9.92	116.13	108.20
25	BB	1433	A	C8-N9-C4	9.92	109.77	105.80
1	AA	6	U	C5-C6-N1	-9.92	117.74	122.70
25	BB	2191	A	N1-C2-N3	-9.92	124.34	129.30
25	BB	2805	C	N1-C2-O2	9.92	124.85	118.90
3	A1	1133	G	C6-N1-C2	-9.91	119.15	125.10
3	A1	198	G	N9-C4-C5	9.91	109.36	105.40
3	A1	786	G	N7-C8-N9	9.91	118.06	113.10
3	A1	1484	C	O4'-C4'-C3'	9.91	114.03	106.10
24	BA	106	G	C4-C5-N7	9.91	114.77	110.80
25	BB	35	G	N7-C8-N9	9.91	118.06	113.10
25	BB	1302	A	C3'-C2'-C1'	9.91	109.43	101.50
25	BB	1501	G	N3-C4-C5	-9.91	123.64	128.60
25	BB	2586	U	N3-C2-O2	-9.91	115.26	122.20
3	A1	670	G	N1-C6-O6	-9.91	113.95	119.90
25	BB	1178	C	C6-N1-C2	-9.91	116.34	120.30
25	BB	1288	G	C6-N1-C2	-9.91	119.15	125.10
25	BB	1644	C	N3-C4-C5	9.91	125.86	121.90
25	BB	1577	C	N3-C2-O2	-9.91	114.96	121.90
3	A1	758	C	N1-C2-O2	9.91	124.84	118.90
25	BB	660	C	N3-C2-O2	-9.91	114.96	121.90
25	BB	1373	A	C5-C6-N1	9.91	122.65	117.70
25	BB	575	A	C5-C6-N1	9.91	122.65	117.70
25	BB	595	C	C4-C5-C6	9.91	122.35	117.40
25	BB	1080	A	C6-C5-N7	9.91	139.24	132.30
25	BB	1336	A	C4-C5-C6	-9.91	112.05	117.00
25	BB	1502	A	C4-C5-C6	-9.91	112.05	117.00
3	A1	993	G	N9-C4-C5	-9.90	101.44	105.40
3	A1	1097	C	N3-C2-O2	-9.90	114.97	121.90
3	A1	1534	A	C1'-O4'-C4'	-9.90	101.98	109.90
3	A1	115	G	N3-C4-N9	9.90	131.94	126.00
3	A1	1196	A	C1'-O4'-C4'	-9.90	101.98	109.90
3	A1	1387	G	C6-C5-N7	-9.90	124.46	130.40
25	BB	532	A	O4'-C4'-C3'	9.90	114.02	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1511	G	C5-N7-C8	-9.90	99.35	104.30
25	BB	1512	C	N1-C2-N3	9.90	126.13	119.20
25	BB	1802	A	C5-C6-N1	9.90	122.65	117.70
25	BB	2424	C	C6-N1-C2	-9.90	116.34	120.30
3	A1	364	A	C8-N9-C4	-9.90	101.84	105.80
3	A1	493	A	C5-C6-N1	9.90	122.65	117.70
3	A1	718	A	C4-C5-C6	-9.90	112.05	117.00
25	BB	1154	G	N1-C6-O6	-9.90	113.96	119.90
3	A1	337	G	C8-N9-C4	-9.89	102.44	106.40
25	BB	793	A	C5-C6-N6	9.89	131.62	123.70
25	BB	2277	G	C1'-O4'-C4'	9.89	117.82	109.90
3	A1	1481	U	O4'-C1'-N1	9.89	116.11	108.20
25	BB	3	U	C4-C5-C6	9.89	125.64	119.70
25	BB	644	A	N1-C2-N3	-9.89	124.35	129.30
25	BB	1686	C	N3-C4-N4	-9.89	111.08	118.00
25	BB	2588	G	C2-N3-C4	9.89	116.85	111.90
25	BB	2853	C	C5-C4-N4	9.89	127.13	120.20
3	A1	53	A	N1-C2-N3	-9.89	124.35	129.30
3	A1	571	U	C5-C6-N1	-9.89	117.75	122.70
3	A1	1285	A	N1-C2-N3	-9.89	124.36	129.30
3	A1	1508	A	N9-C4-C5	-9.89	101.84	105.80
25	BB	363	G	C5-N7-C8	-9.89	99.35	104.30
25	BB	1410	G	N1-C2-N3	9.89	129.84	123.90
25	BB	2374	C	N1-C2-O2	9.89	124.83	118.90
25	BB	2798	U	C2-N3-C4	-9.89	121.06	127.00
25	BB	2851	A	C6-C5-N7	9.89	139.22	132.30
25	BB	617	G	N9-C4-C5	9.89	109.36	105.40
25	BB	1332	G	C5-C6-O6	9.89	134.53	128.60
1	AE	42	G	N7-C8-N9	9.89	118.04	113.10
3	A1	342	C	N3-C4-C5	9.89	125.86	121.90
3	A1	727	G	C4-C5-C6	-9.89	112.87	118.80
25	BB	1310	G	C8-N9-C4	-9.89	102.44	106.40
25	BB	1407	G	N1-C2-N3	9.89	129.83	123.90
25	BB	1734	G	N1-C6-O6	-9.89	113.97	119.90
25	BB	1815	A	N1-C6-N6	-9.89	112.67	118.60
25	BB	2324	U	O4'-C1'-N1	9.89	116.11	108.20
25	BB	2150	C	C6-N1-C2	-9.89	116.34	120.30
37	BN	47	ARG	NE-CZ-NH2	9.89	125.24	120.30
3	A1	87	C	N3-C4-N4	-9.88	111.08	118.00
3	A1	172	A	C5-C6-N6	9.89	131.61	123.70
3	A1	1256	A	C2-N3-C4	9.89	115.54	110.60
25	BB	730	A	O4'-C1'-N9	-9.89	100.29	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2014	A	C4-C5-C6	-9.89	112.06	117.00
3	A1	1430	A	C1'-O4'-C4'	-9.88	101.99	109.90
25	BB	1442	U	N1-C2-N3	9.88	120.83	114.90
25	BB	2062	A	C4-C5-N7	9.88	115.64	110.70
25	BB	2235	G	C5-C6-N1	9.88	116.44	111.50
25	BB	2562	U	O4'-C1'-N1	9.88	116.11	108.20
25	BB	2677	G	N1-C2-N3	9.88	129.83	123.90
3	A1	69	G	N7-C8-N9	9.88	118.04	113.10
3	A1	666	G	C4-C5-N7	9.88	114.75	110.80
3	A1	1220	G	C5-C6-N1	9.88	116.44	111.50
3	A1	464	U	O4'-C4'-C3'	-9.88	94.12	104.00
3	A1	579	A	C6-C5-N7	9.88	139.22	132.30
25	BB	74	A	C3'-C2'-C1'	9.88	109.41	101.50
25	BB	487	C	N3-C2-O2	-9.88	114.98	121.90
25	BB	1493	C	O4'-C4'-C3'	9.88	114.01	106.10
25	BB	2078	C	N3-C4-C5	9.88	125.85	121.90
3	A1	1254	A	C5-C6-N1	9.88	122.64	117.70
3	A1	1274	A	C4-C5-C6	-9.88	112.06	117.00
25	BB	280	U	N3-C2-O2	-9.88	115.28	122.20
25	BB	659	G	N3-C2-N2	-9.88	112.98	119.90
25	BB	2898	U	C1'-O4'-C4'	-9.88	102.00	109.90
3	A1	333	U	C2-N3-C4	-9.88	121.07	127.00
3	A1	935	A	N1-C2-N3	-9.88	124.36	129.30
25	BB	1045	C	N3-C2-O2	-9.88	114.98	121.90
25	BB	1525	A	O4'-C1'-N9	9.88	116.10	108.20
25	BB	2174	C	N3-C4-N4	-9.88	111.08	118.00
25	BB	2195	U	O4'-C1'-N1	9.88	116.10	108.20
3	A1	1117	A	C6-C5-N7	9.88	139.21	132.30
25	BB	1205	A	C5-C6-N1	9.88	122.64	117.70
25	BB	1353	A	N9-C4-C5	-9.88	101.85	105.80
25	BB	1378	A	O4'-C1'-N9	9.88	116.10	108.20
25	BB	2235	G	N1-C6-O6	-9.88	113.97	119.90
3	A1	197	A	P-O3'-C3'	9.88	131.55	119.70
3	A1	757	U	C2-N3-C4	-9.88	121.08	127.00
24	BA	27	C	O4'-C1'-N1	9.88	116.10	108.20
24	BA	52	A	C5'-C4'-C3'	-9.88	100.20	116.00
25	BB	1261	C	O4'-C1'-N1	9.88	116.10	108.20
25	BB	1674	G	N3-C2-N2	-9.88	112.99	119.90
25	BB	2261	C	N3-C2-O2	-9.88	114.99	121.90
1	AP	16	U	C4'-C3'-C2'	-9.87	92.73	102.60
1	AE	67	A	C5-C6-N6	9.87	131.60	123.70
3	A1	1262	C	N3-C2-O2	-9.87	114.99	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1093	G	N9-C4-C5	9.87	109.35	105.40
25	BB	2673	G	N7-C8-N9	9.87	118.04	113.10
25	BB	2766	A	C8-N9-C4	-9.87	101.85	105.80
3	A1	162	A	N1-C6-N6	-9.87	112.68	118.60
3	A1	523	A	C6-C5-N7	9.87	139.21	132.30
25	BB	466	A	C6-C5-N7	9.87	139.21	132.30
3	A1	577	G	C5'-C4'-O4'	9.87	120.94	109.10
3	A1	1289	A	C2-N3-C4	9.87	115.53	110.60
25	BB	190	A	N1-C6-N6	-9.87	112.68	118.60
25	BB	2809	A	C2-N3-C4	9.87	115.53	110.60
3	A1	1018	G	N1-C6-O6	-9.87	113.98	119.90
25	BB	2844	G	N3-C4-C5	-9.87	123.67	128.60
25	BB	2	G	C4-C5-N7	-9.86	106.86	110.80
25	BB	430	A	N3-C4-N9	-9.86	119.51	127.40
25	BB	543	G	C5'-C4'-O4'	9.87	120.94	109.10
3	A1	351	G	C8-N9-C4	-9.86	102.45	106.40
3	A1	626	G	N9-C4-C5	-9.86	101.45	105.40
3	A1	1345	U	N1-C2-N3	9.86	120.82	114.90
24	BA	17	C	C5'-C4'-O4'	9.86	120.94	109.10
25	BB	414	C	N1-C2-O2	9.86	124.82	118.90
25	BB	2600	A	N1-C2-N3	-9.86	124.37	129.30
3	A1	595	A	C4-C5-C6	-9.86	112.07	117.00
3	A1	613	C	N3-C4-N4	-9.86	111.10	118.00
25	BB	226	A	C6-C5-N7	9.86	139.20	132.30
25	BB	708	G	C2-N3-C4	9.86	116.83	111.90
25	BB	775	G	N3-C4-N9	-9.86	120.08	126.00
25	BB	2764	A	C4-C5-N7	9.86	115.63	110.70
25	BB	2869	G	C8-N9-C4	-9.86	102.46	106.40
3	A1	505	G	N9-C4-C5	-9.86	101.46	105.40
3	A1	509	A	C5-C6-N1	9.86	122.63	117.70
3	A1	510	A	C3'-C2'-C1'	-9.86	93.61	101.50
3	A1	1513	A	C4-C5-C6	-9.86	112.07	117.00
25	BB	1125	G	C6-N1-C2	-9.86	119.19	125.10
25	BB	1304	A	C2-N3-C4	-9.86	105.67	110.60
25	BB	2318	G	O4'-C1'-N9	9.86	116.08	108.20
25	BB	2778	A	C4-C5-N7	-9.86	105.77	110.70
3	A1	163	C	C1'-O4'-C4'	-9.85	102.02	109.90
3	A1	915	A	C4-C5-C6	-9.85	112.07	117.00
25	BB	750	A	C4-C5-C6	-9.85	112.07	117.00
1	AE	58	A	C6-C5-N7	9.85	139.20	132.30
3	A1	740	U	N1-C2-N3	9.85	120.81	114.90
3	A1	27	G	C6-N1-C2	-9.85	119.19	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	403	C	O4'-C4'-C3'	9.85	113.98	106.10
3	A1	442	G	N9-C4-C5	-9.85	101.46	105.40
3	A1	936	C	N3-C2-O2	-9.85	115.00	121.90
25	BB	70	G	C5-C6-N1	9.85	116.43	111.50
25	BB	223	A	C5-C6-N1	9.85	122.62	117.70
25	BB	1626	A	C4'-C3'-C2'	-9.85	92.75	102.60
25	BB	2814	A	N1-C6-N6	-9.85	112.69	118.60
25	BB	163	C	C5-C4-N4	-9.85	113.31	120.20
3	A1	1284	C	N3-C2-O2	-9.85	115.01	121.90
25	BB	265	A	N1-C6-N6	-9.85	112.69	118.60
25	BB	1642	G	C5-N7-C8	-9.85	99.38	104.30
41	BR	29	ARG	NE-CZ-NH2	9.85	125.22	120.30
3	A1	528	C	C6-N1-C2	-9.85	116.36	120.30
24	BA	29	A	C5'-C4'-O4'	9.85	120.92	109.10
25	BB	2493	U	N3-C2-O2	-9.85	115.31	122.20
25	BB	2726	A	C6-N1-C2	-9.85	112.69	118.60
3	A1	892	A	N1-C6-N6	-9.84	112.69	118.60
25	BB	1700	A	C5-C6-N6	9.84	131.57	123.70
3	A1	911	U	O4'-C1'-N1	9.84	116.07	108.20
25	BB	139	U	N3-C2-O2	-9.84	115.31	122.20
25	BB	400	G	N1-C2-N3	9.84	129.81	123.90
25	BB	1434	A	N1-C6-N6	-9.84	112.69	118.60
25	BB	2627	G	N3-C2-N2	9.84	126.79	119.90
25	BB	2735	G	N1-C6-O6	-9.84	114.00	119.90
25	BB	2819	G	C6-C5-N7	9.84	136.31	130.40
3	A1	167	A	C6-C5-N7	9.84	139.19	132.30
3	A1	1046	A	N3-C4-C5	-9.84	119.91	126.80
3	A1	1133	G	C5-C6-N1	9.84	116.42	111.50
25	BB	1478	G	N3-C2-N2	-9.84	113.01	119.90
25	BB	2883	A	C5-C6-N1	9.84	122.62	117.70
48	BY	169	ARG	NE-CZ-NH2	-9.84	115.38	120.30
25	BB	2138	G	C5-C6-O6	9.84	134.50	128.60
25	BB	2550	G	C6-C5-N7	9.84	136.30	130.40
25	BB	2565	A	O4'-C4'-C3'	9.84	113.97	106.10
25	BB	2576	G	O4'-C1'-N9	9.84	116.07	108.20
31	BH	10	ARG	NE-CZ-NH1	9.84	125.22	120.30
2	AM	4	U	C4'-C3'-C2'	-9.84	92.76	102.60
3	A1	16	A	N3-C4-N9	-9.84	119.53	127.40
3	A1	720	C	N1-C2-N3	9.84	126.09	119.20
3	A1	800	G	C8-N9-C4	-9.84	102.47	106.40
3	A1	933	G	N1-C2-N3	9.84	129.80	123.90
3	A1	1130	A	O4'-C1'-N9	9.84	116.07	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2422	C	N3-C4-N4	-9.84	111.11	118.00
3	A1	1355	G	N1-C2-N3	9.84	129.80	123.90
24	BA	57	A	C5-C6-N6	9.84	131.57	123.70
25	BB	385	C	N3-C2-O2	-9.84	115.01	121.90
25	BB	788	A	C6-C5-N7	9.84	139.19	132.30
25	BB	1287	A	N1-C6-N6	-9.84	112.70	118.60
25	BB	16	C	C3'-C2'-C1'	9.83	109.37	101.50
3	A1	1016	A	C5'-C4'-O4'	9.83	120.90	109.10
3	A1	1138	G	C5-C6-N1	9.83	116.42	111.50
3	A1	596	A	C4-C5-C6	-9.83	112.08	117.00
3	A1	1014	A	C4-C5-N7	-9.83	105.78	110.70
3	A1	1320	C	N1-C2-N3	9.83	126.08	119.20
25	BB	2702	G	N3-C4-C5	-9.83	123.68	128.60
3	A1	113	G	C6-C5-N7	9.83	136.30	130.40
3	A1	248	C	N3-C4-N4	-9.83	111.12	118.00
3	A1	1435	G	C5-C6-N1	9.83	116.41	111.50
25	BB	753	A	C6-N1-C2	-9.83	112.70	118.60
25	BB	1001	A	C6-N1-C2	-9.83	112.70	118.60
25	BB	1365	A	C5-C6-N1	9.83	122.61	117.70
25	BB	1424	G	N1-C6-O6	-9.83	114.00	119.90
25	BB	1628	G	C8-N9-C4	-9.83	102.47	106.40
25	BB	2353	G	C6-C5-N7	9.83	136.30	130.40
25	BB	2521	C	C5'-C4'-O4'	9.83	120.90	109.10
3	A1	265	G	N3-C2-N2	-9.83	113.02	119.90
3	A1	400	C	N1-C2-O2	9.83	124.80	118.90
3	A1	696	A	C4-C5-C6	-9.83	112.09	117.00
3	A1	853	C	N1-C2-O2	9.83	124.80	118.90
25	BB	6	A	C5-C6-N6	9.83	131.56	123.70
25	BB	1399	C	C5-C4-N4	9.83	127.08	120.20
25	BB	2138	G	C2-N3-C4	9.83	116.81	111.90
25	BB	119	A	C6-C5-N7	9.82	139.18	132.30
25	BB	792	A	C2-N3-C4	9.82	115.51	110.60
25	BB	652	U	C4-C5-C6	9.82	125.59	119.70
3	A1	1242	G	N1-C6-O6	-9.82	114.01	119.90
3	A1	1457	G	O4'-C1'-N9	9.82	116.06	108.20
25	BB	422	A	C6-C5-N7	9.82	139.18	132.30
3	A1	1438	G	N9-C4-C5	9.82	109.33	105.40
25	BB	1107	G	N3-C4-N9	9.82	131.89	126.00
25	BB	1193	G	N1-C6-O6	-9.82	114.01	119.90
25	BB	1424	G	C2-N3-C4	9.82	116.81	111.90
25	BB	1812	U	N3-C2-O2	-9.82	115.33	122.20
1	AE	43	G	N1-C2-N3	9.82	129.79	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	117	G	C8-N9-C4	-9.82	102.47	106.40
3	A1	191	G	N3-C2-N2	-9.82	113.03	119.90
3	A1	496	A	C5-C6-N1	9.82	122.61	117.70
3	A1	542	G	C8-N9-C4	-9.82	102.47	106.40
8	AG	74	ARG	NE-CZ-NH2	9.82	125.21	120.30
25	BB	449	A	C4-C5-C6	-9.82	112.09	117.00
25	BB	903	C	N3-C4-C5	9.82	125.83	121.90
25	BB	1172	C	C5'-C4'-O4'	9.82	120.88	109.10
25	BB	1249	U	C2-N3-C4	-9.82	121.11	127.00
25	BB	1505	A	C4-C5-C6	-9.82	112.09	117.00
25	BB	2640	G	C5-C6-N1	9.82	116.41	111.50
25	BB	969	G	N1-C6-O6	-9.81	114.01	119.90
3	A1	160	A	C6-C5-N7	9.81	139.17	132.30
3	A1	892	A	C8-N9-C4	-9.81	101.88	105.80
3	A1	1434	A	N7-C8-N9	9.81	118.71	113.80
25	BB	2633	G	N1-C6-O6	-9.81	114.01	119.90
25	BB	2634	A	C2-N3-C4	9.81	115.51	110.60
25	BB	2679	A	N1-C6-N6	-9.81	112.71	118.60
25	BB	344	A	C5-C6-N6	9.81	131.55	123.70
25	BB	466	A	C5-C6-N6	9.81	131.55	123.70
25	BB	489	G	N1-C6-O6	-9.81	114.01	119.90
25	BB	1188	U	N1-C2-N3	9.81	120.79	114.90
25	BB	1303	G	N7-C8-N9	9.81	118.00	113.10
25	BB	1543	G	O4'-C1'-N9	9.81	116.05	108.20
25	BB	1691	C	C5-C6-N1	-9.81	116.09	121.00
3	A1	610	U	O4'-C1'-N1	9.81	116.05	108.20
3	A1	1306	A	C6-C5-N7	9.81	139.17	132.30
24	BA	61	G	C2-N3-C4	9.81	116.80	111.90
25	BB	105	C	N3-C4-C5	9.81	125.82	121.90
25	BB	1232	G	C6-N1-C2	-9.81	119.22	125.10
37	BN	188	ARG	NE-CZ-NH2	-9.81	115.39	120.30
1	AP	8	U	N1-C2-O2	9.81	129.66	122.80
3	A1	733	G	N3-C2-N2	-9.81	113.04	119.90
25	BB	79	C	O4'-C1'-N1	9.81	116.05	108.20
25	BB	1606	C	C5-C6-N1	-9.81	116.10	121.00
25	BB	1902	C	N3-C2-O2	-9.81	115.04	121.90
25	BB	2190	G	C5-N7-C8	-9.81	99.40	104.30
25	BB	742	A	C2-N3-C4	9.80	115.50	110.60
25	BB	817	C	N3-C4-N4	-9.80	111.14	118.00
25	BB	2820	A	N3-C4-C5	-9.81	119.94	126.80
25	BB	2216	G	N1-C6-O6	-9.80	114.02	119.90
25	BB	2580	U	N3-C2-O2	-9.80	115.34	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	133	U	N3-C2-O2	-9.80	115.34	122.20
3	A1	1223	C	C5-C4-N4	9.80	127.06	120.20
3	A1	1504	G	C2-N3-C4	9.80	116.80	111.90
3	A1	181	A	N1-C6-N6	-9.80	112.72	118.60
25	BB	1867	G	C2-N3-C4	9.80	116.80	111.90
3	A1	184	G	N1-C6-O6	-9.80	114.02	119.90
3	A1	1394	A	N9-C4-C5	9.80	109.72	105.80
25	BB	1250	G	C6-N1-C2	-9.80	119.22	125.10
25	BB	1419	A	C4-C5-C6	-9.80	112.10	117.00
25	BB	1606	C	C4-C5-C6	9.80	122.30	117.40
25	BB	1872	A	O4'-C1'-N9	9.80	116.04	108.20
25	BB	2161	C	C5-C6-N1	-9.80	116.10	121.00
1	AP	40	C	O4'-C1'-N1	9.79	116.03	108.20
3	A1	113	G	O4'-C1'-N9	9.79	116.04	108.20
25	BB	2304	G	C5-C6-O6	9.80	134.48	128.60
25	BB	1112	G	N3-C2-N2	-9.79	113.04	119.90
25	BB	2657	A	N7-C8-N9	9.79	118.70	113.80
3	A1	227	G	C4-C5-N7	-9.79	106.88	110.80
3	A1	776	G	C5-C6-N1	9.79	116.40	111.50
25	BB	79	C	N3-C2-O2	-9.79	115.05	121.90
25	BB	478	A	C6-N1-C2	-9.79	112.72	118.60
25	BB	1482	G	C6-N1-C2	-9.79	119.22	125.10
25	BB	2101	A	N1-C6-N6	-9.79	112.72	118.60
25	BB	1129	A	C4-C5-C6	-9.79	112.11	117.00
25	BB	1632	A	C6-C5-N7	9.79	139.15	132.30
25	BB	1911	U	C5-C4-O4	-9.79	120.03	125.90
25	BB	2751	G	C4-C5-N7	-9.79	106.88	110.80
38	BO	84	PHE	CB-CG-CD2	9.79	127.65	120.80
3	A1	541	G	N7-C8-N9	9.79	118.00	113.10
3	A1	1106	G	C5-N7-C8	-9.79	99.41	104.30
3	A1	1413	A	C4-C5-C6	-9.79	112.11	117.00
3	A1	915	A	C5-C6-N1	9.79	122.59	117.70
3	A1	1244	G	N3-C4-C5	-9.79	123.70	128.60
3	A1	1486	G	N9-C4-C5	9.79	109.31	105.40
25	BB	73	A	C5-C6-N1	9.79	122.59	117.70
25	BB	412	A	C5-N7-C8	-9.79	99.01	103.90
25	BB	977	G	C2-N3-C4	9.79	116.80	111.90
25	BB	2413	G	O4'-C1'-N9	9.79	116.03	108.20
25	BB	2679	A	C6-C5-N7	9.79	139.15	132.30
25	BB	300	A	N1-C2-N3	-9.79	124.41	129.30
25	BB	1456	G	N1-C6-O6	-9.79	114.03	119.90
25	BB	1466	U	N1-C2-O2	9.79	129.65	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1826	G	N3-C4-C5	-9.79	123.71	128.60
1	AE	18	G	C6-N1-C2	-9.79	119.23	125.10
3	A1	89	U	C1'-O4'-C4'	-9.79	102.07	109.90
3	A1	357	G	C4-C5-C6	-9.79	112.93	118.80
25	BB	450	G	C4-C5-N7	9.79	114.71	110.80
25	BB	1174	U	C6-N1-C2	-9.79	115.13	121.00
3	A1	341	C	N3-C2-O2	-9.78	115.05	121.90
3	A1	942	G	C5-C6-N1	9.79	116.39	111.50
3	A1	1156	G	N3-C4-N9	9.79	131.87	126.00
25	BB	917	A	O4'-C1'-N9	9.79	116.03	108.20
25	BB	1827	U	O4'-C1'-N1	9.79	116.03	108.20
25	BB	959	A	C8-N9-C4	-9.78	101.89	105.80
25	BB	1903	G	C4-C5-C6	-9.79	112.93	118.80
25	BB	2881	U	C5-C6-N1	-9.79	117.81	122.70
3	A1	1352	C	N3-C4-N4	-9.78	111.15	118.00
25	BB	752	A	C4-C5-C6	-9.78	112.11	117.00
25	BB	936	A	C4-C5-C6	-9.78	112.11	117.00
25	BB	1149	G	C4-C5-N7	-9.78	106.89	110.80
25	BB	1421	G	N9-C4-C5	9.78	109.31	105.40
25	BB	2196	C	O4'-C1'-N1	9.78	116.03	108.20
3	A1	1399	C	N3-C2-O2	-9.78	115.05	121.90
25	BB	382	A	N1-C2-N3	-9.78	124.41	129.30
25	BB	1298	C	N1-C2-O2	9.78	124.77	118.90
25	BB	1399	C	C3'-C2'-C1'	9.78	109.33	101.50
25	BB	1666	G	N3-C4-C5	-9.78	123.71	128.60
25	BB	1715	G	N1-C6-O6	-9.78	114.03	119.90
25	BB	2406	A	C4-C5-C6	-9.78	112.11	117.00
25	BB	2202	U	N1-C2-N3	9.78	120.77	114.90
3	A1	972	C	C3'-C2'-C1'	9.78	109.32	101.50
24	BA	27	C	C5'-C4'-O4'	9.78	120.84	109.10
25	BB	1337	G	N3-C4-C5	-9.78	123.71	128.60
25	BB	1989	G	C1'-O4'-C4'	-9.78	102.08	109.90
25	BB	2059	A	C6-C5-N7	9.78	139.15	132.30
25	BB	2624	G	N3-C2-N2	-9.78	113.05	119.90
25	BB	169	G	C8-N9-C4	-9.78	102.49	106.40
25	BB	409	G	O4'-C1'-N9	9.78	116.02	108.20
25	BB	744	U	N3-C2-O2	-9.78	115.36	122.20
25	BB	2887	A	C5'-C4'-O4'	9.78	120.83	109.10
25	BB	1707	G	C5-C6-N1	9.78	116.39	111.50
3	A1	561	U	C2-N3-C4	-9.77	121.14	127.00
3	A1	569	C	N3-C4-C5	9.77	125.81	121.90
24	BA	37	C	N3-C2-O2	-9.77	115.06	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	514	A	N1-C2-N3	-9.77	124.41	129.30
3	A1	630	A	O4'-C1'-N9	-9.77	100.38	108.20
3	A1	968	A	O4'-C1'-N9	9.77	116.02	108.20
25	BB	875	G	N1-C2-N3	9.77	129.76	123.90
25	BB	1343	G	N1-C6-O6	-9.77	114.04	119.90
1	AP	38	A	O4'-C4'-C3'	9.77	113.92	106.10
3	A1	753	A	O4'-C1'-N9	9.77	116.01	108.20
24	BA	53	A	C5-C6-N6	9.77	131.51	123.70
25	BB	503	A	N9-C4-C5	9.77	109.71	105.80
25	BB	567	U	C5-C6-N1	-9.77	117.81	122.70
25	BB	1086	A	C6-C5-N7	9.77	139.14	132.30
25	BB	1225	G	C5-C6-N1	9.77	116.39	111.50
25	BB	1008	A	C6-C5-N7	9.77	139.14	132.30
25	BB	1524	G	N1-C2-N3	9.77	129.76	123.90
25	BB	1874	C	N1-C2-O2	9.77	124.76	118.90
25	BB	2136	G	C1'-O4'-C4'	-9.77	102.08	109.90
25	BB	2206	C	N3-C2-O2	-9.77	115.06	121.90
3	A1	689	C	C3'-C2'-C1'	9.77	109.31	101.50
25	BB	953	G	C5-N7-C8	-9.77	99.42	104.30
25	BB	1038	G	C5-N7-C8	-9.77	99.42	104.30
25	BB	1785	A	C5-C6-N1	9.77	122.58	117.70
3	A1	929	G	N7-C8-N9	9.76	117.98	113.10
24	BA	34	A	C3'-C2'-C1'	-9.76	93.69	101.50
25	BB	308	G	O4'-C4'-C3'	9.76	113.91	106.10
25	BB	1698	A	C6-C5-N7	9.76	139.13	132.30
25	BB	1960	A	N1-C2-N3	-9.76	124.42	129.30
25	BB	2439	A	C5-C6-N6	9.76	131.51	123.70
3	A1	81	A	C5-N7-C8	-9.76	99.02	103.90
3	A1	1222	G	N1-C6-O6	-9.76	114.05	119.90
3	A1	1480	A	C5-C6-N1	9.76	122.58	117.70
25	BB	172	A	N7-C8-N9	-9.76	108.92	113.80
25	BB	763	G	N9-C4-C5	9.76	109.30	105.40
25	BB	1167	C	N1-C2-N3	9.76	126.03	119.20
25	BB	1844	C	C5-C4-N4	-9.76	113.37	120.20
25	BB	2497	A	C6-C5-N7	9.76	139.13	132.30
24	BA	12	C	C4-C5-C6	-9.76	112.52	117.40
25	BB	629	G	O4'-C1'-N9	9.76	116.01	108.20
25	BB	1238	G	N1-C6-O6	-9.76	114.04	119.90
25	BB	1735	A	C2-N3-C4	9.76	115.48	110.60
25	BB	1172	C	C6-N1-C2	9.76	124.20	120.30
25	BB	1236	G	N1-C6-O6	-9.76	114.05	119.90
55	B6	35	ARG	NE-CZ-NH2	-9.76	115.42	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	474	G	C4-C5-N7	-9.76	106.90	110.80
3	A1	703	G	C2-N3-C4	-9.76	107.02	111.90
25	BB	331	C	N3-C4-N4	-9.76	111.17	118.00
25	BB	2548	U	N3-C2-O2	-9.76	115.37	122.20
3	A1	1107	C	C2-N3-C4	-9.75	115.02	119.90
25	BB	470	A	C5-C6-N1	9.75	122.58	117.70
30	BG	118	ARG	NE-CZ-NH2	9.75	125.18	120.30
23	AX	48	ARG	NE-CZ-NH2	9.75	125.18	120.30
25	BB	480	A	C6-C5-N7	9.75	139.13	132.30
25	BB	1934	C	N1-C2-O2	9.75	124.75	118.90
25	BB	2706	A	C5-C6-N1	9.75	122.58	117.70
3	A1	139	A	C2-N3-C4	9.75	115.47	110.60
25	BB	1363	C	C6-N1-C2	-9.75	116.40	120.30
3	A1	95	C	N1-C2-O2	9.75	124.75	118.90
3	A1	200	G	C2-N3-C4	9.75	116.78	111.90
3	A1	881	G	C5-C6-N1	9.75	116.38	111.50
3	A1	1514	G	N7-C8-N9	9.75	117.98	113.10
25	BB	140	C	C2-N3-C4	-9.75	115.03	119.90
25	BB	837	C	O4'-C1'-N1	9.75	116.00	108.20
25	BB	855	G	N7-C8-N9	-9.75	108.23	113.10
25	BB	1286	A	C4-C5-C6	-9.75	112.12	117.00
25	BB	1537	G	N3-C4-C5	-9.75	123.72	128.60
25	BB	2052	A	N1-C2-N3	-9.75	124.43	129.30
25	BB	2177	C	N3-C4-N4	-9.75	111.17	118.00
3	A1	22	G	N3-C4-C5	-9.75	123.73	128.60
25	BB	587	C	C6-N1-C2	-9.75	116.40	120.30
1	AE	2	C	N1-C2-O2	9.75	124.75	118.90
3	A1	411	A	C5-C6-N1	9.75	122.57	117.70
3	A1	653	U	N1-C2-O2	9.75	129.62	122.80
24	BA	52	A	C5-C6-N1	9.75	122.57	117.70
25	BB	1290	C	O4'-C1'-N1	9.75	116.00	108.20
25	BB	2026	U	C2-N3-C4	9.75	132.85	127.00
25	BB	2352	A	N7-C8-N9	9.75	118.67	113.80
25	BB	2366	A	N1-C6-N6	-9.75	112.75	118.60
3	A1	850	U	N3-C2-O2	-9.74	115.38	122.20
3	A1	934	C	N3-C2-O2	-9.74	115.08	121.90
3	A1	1448	C	N3-C2-O2	-9.74	115.08	121.90
25	BB	1282	U	C4-C5-C6	9.74	125.55	119.70
25	BB	1819	A	C8-N9-C4	-9.74	101.90	105.80
25	BB	2002	G	C6-N1-C2	-9.74	119.25	125.10
25	BB	2706	A	C5-C6-N6	9.74	131.50	123.70
25	BB	806	C	N1-C2-O2	9.74	124.75	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1018	U	N1-C2-N3	9.74	120.75	114.90
25	BB	1283	G	N9-C4-C5	-9.74	101.50	105.40
25	BB	1525	A	C6-N1-C2	-9.74	112.75	118.60
31	BH	2	ASP	CB-CG-OD2	9.74	127.07	118.30
25	BB	919	U	N3-C4-O4	-9.74	112.58	119.40
25	BB	1552	A	N3-C4-C5	-9.74	119.98	126.80
25	BB	2697	G	O4'-C1'-N9	9.74	115.99	108.20
25	BB	2882	A	N1-C6-N6	-9.74	112.76	118.60
3	A1	1281	C	C6-N1-C2	9.74	124.19	120.30
3	A1	1494	G	N1-C6-O6	-9.74	114.06	119.90
25	BB	836	G	N1-C6-O6	-9.74	114.06	119.90
25	BB	2815	C	N3-C4-C5	9.74	125.80	121.90
3	A1	410	G	C5-C6-N1	9.74	116.37	111.50
3	A1	705	G	N1-C2-N3	9.74	129.74	123.90
24	BA	52	A	C4-C5-C6	-9.74	112.13	117.00
25	BB	1138	G	C4-C5-N7	-9.74	106.91	110.80
25	BB	1588	G	C5-C6-N1	9.74	116.37	111.50
25	BB	1868	C	C5-C4-N4	-9.74	113.38	120.20
25	BB	1998	A	C4-C5-C6	-9.74	112.13	117.00
24	BA	98	G	N7-C8-N9	9.73	117.97	113.10
25	BB	1054	A	C4-C5-C6	-9.73	112.13	117.00
3	A1	738	C	C2-N3-C4	-9.73	115.03	119.90
25	BB	278	A	N9-C4-C5	9.73	109.69	105.80
25	BB	1043	C	C5-C4-N4	-9.73	113.39	120.20
25	BB	1207	C	N3-C4-N4	-9.73	111.19	118.00
3	A1	14	U	N1-C2-O2	9.73	129.61	122.80
3	A1	25	C	C5-C4-N4	9.73	127.01	120.20
3	A1	68	G	C6-N1-C2	-9.73	119.26	125.10
25	BB	116	C	N3-C2-O2	-9.73	115.09	121.90
25	BB	232	G	C8-N9-C4	-9.73	102.51	106.40
25	BB	1655	A	O4'-C1'-N9	-9.73	100.42	108.20
25	BB	1862	G	N1-C2-N2	-9.73	107.44	116.20
25	BB	2313	C	C4-C5-C6	9.73	122.27	117.40
25	BB	2708	G	C5-C6-N1	9.73	116.36	111.50
1	AA	31	A	N1-C6-N6	-9.73	112.76	118.60
1	AE	60	C	C2-N3-C4	-9.73	115.04	119.90
3	A1	654	G	N3-C2-N2	-9.73	113.09	119.90
25	BB	200	U	C3'-C2'-C1'	9.73	109.28	101.50
25	BB	965	C	N3-C4-C5	9.73	125.79	121.90
25	BB	1178	C	C3'-C2'-C1'	9.73	109.28	101.50
25	BB	1884	G	N3-C2-N2	-9.73	113.09	119.90
3	A1	1028	C	N1-C2-N3	9.73	126.01	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	411	G	N9-C4-C5	9.73	109.29	105.40
25	BB	1328	A	C5-C6-N1	9.73	122.56	117.70
25	BB	1508	A	C5-C6-N1	9.73	122.56	117.70
25	BB	1469	A	N1-C6-N6	-9.73	112.77	118.60
25	BB	2067	G	C5-C6-O6	9.73	134.44	128.60
25	BB	2184	A	C5-C6-N1	9.73	122.56	117.70
3	A1	94	G	C5-C6-N1	9.72	116.36	111.50
3	A1	250	A	C5-C6-N1	9.72	122.56	117.70
3	A1	1103	C	C2-N3-C4	-9.72	115.04	119.90
3	A1	1138	G	N1-C6-O6	-9.72	114.06	119.90
25	BB	1248	G	N3-C4-C5	-9.72	123.74	128.60
25	BB	2057	G	N3-C2-N2	-9.72	113.09	119.90
25	BB	2254	C	C4-C5-C6	-9.72	112.54	117.40
3	A1	1062	U	N1-C2-N3	9.72	120.73	114.90
25	BB	335	C	C6-N1-C2	-9.72	116.41	120.30
25	BB	388	G	O4'-C1'-N9	9.72	115.98	108.20
3	A1	9	G	N3-C4-C5	-9.72	123.74	128.60
3	A1	649	A	C4-C5-C6	-9.72	112.14	117.00
3	A1	1298	U	N3-C4-O4	-9.72	112.59	119.40
3	A1	1387	G	N3-C2-N2	-9.72	113.09	119.90
25	BB	359	G	N1-C6-O6	-9.72	114.07	119.90
25	BB	443	A	C4-C5-N7	-9.72	105.84	110.70
25	BB	654	A	N1-C2-N3	-9.72	124.44	129.30
25	BB	664	G	C8-N9-C4	-9.72	102.51	106.40
25	BB	697	G	N3-C4-C5	-9.72	123.74	128.60
25	BB	1905	C	O4'-C4'-C3'	9.72	113.88	106.10
47	BX	19	ARG	NH1-CZ-NH2	-9.72	108.71	119.40
3	A1	852	G	C2-N3-C4	9.72	116.76	111.90
3	A1	1391	U	C1'-O4'-C4'	-9.72	102.13	109.90
25	BB	2020	A	O4'-C1'-N9	9.72	115.98	108.20
25	BB	2557	G	C5-C6-N1	9.72	116.36	111.50
25	BB	2452	C	N3-C4-C5	9.72	125.79	121.90
1	AP	23	A	N1-C6-N6	-9.71	112.77	118.60
3	A1	630	A	C6-N1-C2	-9.71	112.77	118.60
3	A1	988	G	C8-N9-C4	-9.71	102.51	106.40
3	A1	1134	G	N9-C4-C5	9.71	109.29	105.40
3	A1	1466	C	C6-N1-C2	-9.71	116.42	120.30
9	AH	57	ARG	NE-CZ-NH1	9.71	125.16	120.30
52	B3	150	TYR	CB-CG-CD2	-9.71	115.17	121.00
3	A1	77	A	N7-C8-N9	-9.71	108.94	113.80
3	A1	1199	U	C1'-O4'-C4'	-9.71	102.13	109.90
25	BB	1728	C	N1-C2-N3	9.71	126.00	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2256	G	O4'-C1'-N9	9.71	115.97	108.20
25	BB	2443	C	N1-C2-O2	9.71	124.73	118.90
25	BB	2490	G	C5-C6-O6	9.71	134.43	128.60
3	A1	466	A	C5-C6-N1	9.71	122.56	117.70
3	A1	1329	A	C8-N9-C4	-9.71	101.92	105.80
25	BB	2457	U	C5-C6-N1	-9.71	117.84	122.70
24	BA	37	C	C2-N3-C4	-9.71	115.05	119.90
25	BB	50	U	O4'-C4'-C3'	9.71	113.87	106.10
25	BB	1715	G	O4'-C1'-N9	9.71	115.97	108.20
3	A1	599	C	N3-C2-O2	-9.71	115.11	121.90
3	A1	1061	G	C6-N1-C2	-9.71	119.28	125.10
25	BB	152	A	N1-C2-N3	-9.71	124.45	129.30
25	BB	401	A	O4'-C1'-N9	9.71	115.97	108.20
25	BB	857	G	C6-C5-N7	9.71	136.22	130.40
25	BB	2390	U	C5-C6-N1	-9.71	117.85	122.70
25	BB	2567	G	C6-C5-N7	9.71	136.22	130.40
25	BB	2661	G	C2-N3-C4	9.71	116.75	111.90
25	BB	2793	C	N3-C4-C5	9.71	125.78	121.90
3	A1	525	C	C6-N1-C2	-9.71	116.42	120.30
25	BB	537	G	C5'-C4'-O4'	9.71	120.75	109.10
25	BB	979	A	C6-C5-N7	9.71	139.09	132.30
25	BB	1283	G	N3-C4-N9	9.71	131.82	126.00
25	BB	1432	G	N3-C4-C5	9.71	133.45	128.60
25	BB	1820	U	C5-C6-N1	-9.71	117.85	122.70
25	BB	2103	C	C2-N3-C4	-9.71	115.05	119.90
25	BB	2520	C	C6-N1-C2	-9.71	116.42	120.30
3	A1	115	G	C6-N1-C2	-9.70	119.28	125.10
25	BB	2008	C	C5-C4-N4	-9.70	113.41	120.20
51	B2	166	ARG	NE-CZ-NH2	-9.70	115.45	120.30
25	BB	505	A	C6-C5-N7	9.70	139.09	132.30
25	BB	1205	A	C4-C5-C6	-9.70	112.15	117.00
3	A1	214	C	N3-C2-O2	-9.70	115.11	121.90
3	A1	376	G	N3-C4-C5	-9.70	123.75	128.60
3	A1	756	C	C6-N1-C2	-9.70	116.42	120.30
3	A1	884	U	O4'-C1'-C2'	-9.70	96.10	105.80
3	A1	1313	U	N1-C2-N3	9.70	120.72	114.90
25	BB	2429	G	N9-C4-C5	9.70	109.28	105.40
1	AA	61	C	N3-C2-O2	-9.70	115.11	121.90
3	A1	521	G	C5-C6-N1	9.70	116.35	111.50
3	A1	819	A	C5-C6-N1	9.70	122.55	117.70
3	A1	1166	G	C5-C6-N1	9.70	116.35	111.50
25	BB	2530	A	C6-C5-N7	9.70	139.09	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	53	G	C5-C6-O6	9.69	134.42	128.60
3	A1	778	G	N1-C6-O6	-9.69	114.08	119.90
25	BB	314	C	C2-N3-C4	-9.70	115.05	119.90
25	BB	493	G	N1-C6-O6	-9.69	114.08	119.90
25	BB	984	A	O5'-P-OP1	-9.69	96.97	105.70
25	BB	2441	U	C4-C5-C6	9.70	125.52	119.70
25	BB	363	G	N3-C2-N2	-9.69	113.11	119.90
25	BB	1957	C	N3-C2-O2	-9.69	115.11	121.90
25	BB	2334	U	N3-C2-O2	-9.69	115.42	122.20
25	BB	671	C	N3-C4-N4	-9.69	111.22	118.00
25	BB	788	A	N3-C4-N9	-9.69	119.65	127.40
25	BB	2569	G	C8-N9-C4	-9.69	102.52	106.40
25	BB	2711	A	C5-N7-C8	-9.69	99.05	103.90
3	A1	113	G	N1-C6-O6	-9.69	114.09	119.90
25	BB	19	A	N9-C4-C5	-9.69	101.92	105.80
25	BB	668	A	O4'-C1'-N9	9.69	115.95	108.20
25	BB	799	G	C5-N7-C8	-9.69	99.46	104.30
25	BB	1304	A	N1-C2-N3	9.69	134.14	129.30
25	BB	1517	G	N1-C2-N3	9.69	129.71	123.90
25	BB	1696	G	N3-C4-N9	-9.69	120.19	126.00
25	BB	2682	A	N9-C4-C5	9.69	109.68	105.80
37	BN	237	ARG	NE-CZ-NH2	9.69	125.14	120.30
25	BB	2325	G	C5-C6-O6	-9.69	122.79	128.60
3	A1	385	C	N3-C4-N4	-9.69	111.22	118.00
24	BA	35	C	N1-C2-O2	9.69	124.71	118.90
25	BB	36	G	C6-N1-C2	-9.69	119.29	125.10
25	BB	84	A	C4-C5-N7	-9.69	105.86	110.70
25	BB	359	G	N3-C4-C5	-9.69	123.76	128.60
25	BB	116	C	N1-C2-O2	9.69	124.71	118.90
25	BB	141	G	N9-C4-C5	-9.69	101.53	105.40
25	BB	2017	U	C4-C5-C6	9.69	125.51	119.70
25	BB	2834	G	C2-N3-C4	9.69	116.74	111.90
1	AP	13	C	N3-C4-N4	-9.68	111.22	118.00
3	A1	525	C	N3-C2-O2	-9.68	115.12	121.90
3	A1	608	A	N1-C2-N3	-9.68	124.46	129.30
3	A1	1105	A	C1'-O4'-C4'	-9.68	102.15	109.90
3	A1	1514	G	C5-C6-N1	9.68	116.34	111.50
25	BB	526	A	C5-C6-N6	9.68	131.45	123.70
25	BB	910	A	C5-C6-N6	9.68	131.45	123.70
25	BB	1543	G	C4'-C3'-C2'	-9.68	92.92	102.60
25	BB	1772	A	C5-C6-N1	9.68	122.54	117.70
25	BB	2143	C	N1-C2-N3	9.68	125.98	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2532	G	C4-C5-N7	-9.68	106.93	110.80
3	A1	554	A	C4-C5-C6	-9.68	112.16	117.00
25	BB	41	C	N3-C4-N4	-9.68	111.22	118.00
25	BB	1350	C	C3'-C2'-C1'	9.68	109.25	101.50
25	BB	1721	G	C5-C6-N1	9.68	116.34	111.50
3	A1	101	A	N1-C6-N6	-9.68	112.79	118.60
3	A1	290	C	C5-C4-N4	9.68	126.97	120.20
3	A1	487	A	C5-C6-N1	9.68	122.54	117.70
3	A1	525	C	N1-C2-O2	9.68	124.71	118.90
3	A1	542	G	C6-N1-C2	-9.68	119.29	125.10
3	A1	838	G	C6-C5-N7	9.68	136.21	130.40
25	BB	310	A	C6-C5-N7	9.68	139.07	132.30
25	BB	2378	A	N3-C4-N9	-9.68	119.66	127.40
25	BB	2591	C	C4-C5-C6	-9.68	112.56	117.40
25	BB	2692	G	N3-C4-C5	-9.68	123.76	128.60
3	A1	279	A	C6-N1-C2	-9.68	112.79	118.60
3	A1	353	A	C5-C6-N1	9.68	122.54	117.70
24	BA	4	C	O4'-C1'-C2'	9.68	116.31	107.60
25	BB	171	U	O4'-C1'-N1	9.68	115.94	108.20
25	BB	1478	G	N9-C4-C5	9.68	109.27	105.40
25	BB	1730	C	N3-C4-N4	-9.68	111.23	118.00
25	BB	1821	A	C6-N1-C2	-9.68	112.80	118.60
25	BB	2040	G	C2-N3-C4	-9.68	107.06	111.90
3	A1	391	G	C4-C5-N7	9.67	114.67	110.80
3	A1	714	G	N3-C4-N9	9.67	131.80	126.00
25	BB	172	A	C5'-C4'-C3'	-9.67	100.53	116.00
25	BB	720	U	C2-N3-C4	-9.67	121.20	127.00
25	BB	1590	A	C5-C6-N1	9.67	122.54	117.70
25	BB	2566	A	C5-C6-N6	9.67	131.44	123.70
25	BB	800	A	C8-N9-C4	-9.67	101.93	105.80
25	BB	2566	A	N7-C8-N9	9.67	118.64	113.80
25	BB	2685	G	N3-C4-C5	-9.67	123.76	128.60
25	BB	1439	A	C5-C6-N1	9.67	122.54	117.70
25	BB	2860	A	C4-C5-C6	-9.67	112.17	117.00
3	A1	419	C	N3-C4-C5	9.67	125.77	121.90
3	A1	472	U	C4-C5-C6	9.67	125.50	119.70
3	A1	1166	G	N1-C2-N3	9.67	129.70	123.90
21	AV	14	ARG	NE-CZ-NH2	9.67	125.14	120.30
25	BB	252	G	C8-N9-C4	-9.67	102.53	106.40
25	BB	386	G	N9-C4-C5	9.67	109.27	105.40
24	BA	105	G	C5-C6-O6	9.67	134.40	128.60
25	BB	717	C	O4'-C1'-N1	9.67	115.93	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1186	G	C5-C6-N1	9.67	116.33	111.50
25	BB	1932	A	C5-C6-N6	9.67	131.43	123.70
25	BB	1437	C	C2-N3-C4	-9.67	115.07	119.90
25	BB	2060	A	C5-C6-N1	9.67	122.53	117.70
3	A1	578	C	C4-C5-C6	9.66	122.23	117.40
3	A1	286	C	N3-C4-N4	-9.66	111.24	118.00
3	A1	654	G	N7-C8-N9	9.66	117.93	113.10
25	BB	1190	G	N3-C4-C5	-9.66	123.77	128.60
25	BB	1213	A	C4-C5-C6	-9.66	112.17	117.00
25	BB	1703	G	C5-C6-N1	9.66	116.33	111.50
25	BB	1928	A	N7-C8-N9	9.66	118.63	113.80
25	BB	2354	C	C5-C6-N1	-9.66	116.17	121.00
25	BB	2789	C	O4'-C4'-C3'	9.66	113.83	106.10
3	A1	475	C	C6-N1-C2	-9.66	116.44	120.30
3	A1	709	U	O4'-C1'-N1	9.66	115.93	108.20
25	BB	92	U	C5-C6-N1	-9.66	117.87	122.70
25	BB	549	G	C5-N7-C8	-9.66	99.47	104.30
33	BJ	50	ARG	NH1-CZ-NH2	-9.66	108.77	119.40
3	A1	31	G	C4-C5-C6	-9.66	113.00	118.80
25	BB	121	G	N7-C8-N9	9.66	117.93	113.10
25	BB	2799	A	N1-C6-N6	-9.66	112.80	118.60
3	A1	174	A	N1-C6-N6	-9.66	112.80	118.60
3	A1	413	G	C4-C5-C6	-9.66	113.00	118.80
25	BB	462	C	N3-C4-C5	9.66	125.76	121.90
25	BB	1352	U	N1-C2-O2	9.66	129.56	122.80
25	BB	2588	G	C5-N7-C8	-9.66	99.47	104.30
3	A1	6	G	C8-N9-C4	-9.66	102.54	106.40
3	A1	321	A	C4'-C3'-C2'	-9.66	92.94	102.60
3	A1	414	A	C4-C5-C6	-9.66	112.17	117.00
3	A1	957	U	C5-C6-N1	-9.66	117.87	122.70
3	A1	1140	C	O4'-C4'-C3'	9.66	113.83	106.10
3	A1	1494	G	C8-N9-C4	-9.66	102.54	106.40
5	AC	127	ARG	NE-CZ-NH1	-9.66	115.47	120.30
25	BB	48	G	N9-C4-C5	9.66	109.26	105.40
25	BB	1102	C	C2-N3-C4	-9.66	115.07	119.90
25	BB	1741	C	N3-C2-O2	-9.66	115.14	121.90
25	BB	2098	U	C5-C6-N1	-9.66	117.87	122.70
25	BB	2375	G	N3-C4-C5	-9.66	123.77	128.60
25	BB	2522	U	C2-N3-C4	-9.66	121.21	127.00
25	BB	2898	U	C5-C6-N1	-9.66	117.87	122.70
1	AA	63	C	N3-C4-N4	-9.65	111.24	118.00
3	A1	550	G	C2-N3-C4	9.65	116.73	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	690	G	C6-C5-N7	9.65	136.19	130.40
3	A1	816	A	N1-C6-N6	-9.65	112.81	118.60
25	BB	246	C	C6-N1-C2	-9.65	116.44	120.30
25	BB	1026	G	C4'-C3'-C2'	-9.65	92.95	102.60
25	BB	1383	A	O4'-C1'-C2'	-9.65	96.15	105.80
25	BB	2733	A	C6-C5-N7	9.65	139.06	132.30
25	BB	1651	G	N1-C2-N3	9.65	129.69	123.90
3	A1	1236	A	C8-N9-C4	-9.65	101.94	105.80
3	A1	92	U	N3-C2-O2	-9.65	115.44	122.20
3	A1	1318	A	C5-C6-N1	9.65	122.53	117.70
25	BB	2224	G	C4-C5-C6	-9.65	113.01	118.80
25	BB	2882	A	C8-N9-C4	-9.65	101.94	105.80
31	BH	13	ARG	NE-CZ-NH1	9.65	125.12	120.30
3	A1	513	C	N3-C2-O2	-9.65	115.15	121.90
25	BB	1662	U	N3-C2-O2	-9.65	115.45	122.20
3	A1	1491	G	C5-C6-N1	9.65	116.32	111.50
25	BB	41	C	C2-N3-C4	-9.65	115.08	119.90
25	BB	445	C	C6-N1-C2	-9.65	116.44	120.30
25	BB	1204	A	C3'-C2'-C1'	9.65	109.22	101.50
25	BB	2215	C	C3'-C2'-C1'	9.65	109.22	101.50
1	AP	23	A	C6-C5-N7	9.64	139.05	132.30
3	A1	541	G	C8-N9-C4	-9.64	102.54	106.40
2	AM	14	U	N3-C2-O2	-9.64	115.45	122.20
3	A1	764	C	N3-C4-C5	9.64	125.76	121.90
3	A1	852	G	C6-N1-C2	-9.64	119.31	125.10
25	BB	2321	U	O4'-C1'-N1	9.64	115.92	108.20
24	BA	75	G	N1-C6-O6	-9.64	114.11	119.90
25	BB	1569	A	C4-C5-C6	-9.64	112.18	117.00
25	BB	1836	C	N3-C2-O2	-9.64	115.15	121.90
25	BB	2536	G	C5-C6-N1	9.64	116.32	111.50
3	A1	81	A	C5-C6-N1	9.64	122.52	117.70
3	A1	1302	C	O4'-C1'-N1	9.64	115.91	108.20
17	AR	96	ARG	NE-CZ-NH1	9.64	125.12	120.30
25	BB	455	C	C6-N1-C2	-9.64	116.44	120.30
25	BB	1103	A	C8-N9-C4	-9.64	101.94	105.80
25	BB	1299	G	N1-C6-O6	-9.64	114.12	119.90
25	BB	1982	U	N1-C2-N3	9.64	120.68	114.90
25	BB	2393	U	N1-C2-N3	9.64	120.68	114.90
3	A1	553	A	C2-N3-C4	9.64	115.42	110.60
1	AA	59	U	O4'-C1'-N1	9.64	115.91	108.20
25	BB	75	G	C8-N9-C4	-9.64	102.55	106.40
25	BB	2234	G	N1-C6-O6	-9.64	114.12	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	97	G	N3-C4-C5	-9.63	123.78	128.60
25	BB	735	A	N1-C6-N6	-9.63	112.82	118.60
25	BB	977	G	N1-C6-O6	-9.63	114.12	119.90
25	BB	1109	C	C4-C5-C6	9.63	122.22	117.40
25	BB	2857	G	N3-C4-C5	-9.64	123.78	128.60
25	BB	2414	G	N1-C6-O6	-9.63	114.12	119.90
1	AP	32	C	N3-C2-O2	-9.63	115.16	121.90
3	A1	1318	A	C8-N9-C4	-9.63	101.95	105.80
25	BB	322	A	C5-C6-N1	9.63	122.52	117.70
25	BB	1393	A	C5-C6-N1	9.63	122.52	117.70
25	BB	2294	G	N1-C6-O6	-9.63	114.12	119.90
3	A1	621	A	OP1-P-OP2	-9.63	105.15	119.60
3	A1	967	C	C2-N3-C4	-9.63	115.08	119.90
25	BB	1121	C	N1-C2-O2	9.63	124.68	118.90
4	AB	112	ARG	NE-CZ-NH1	9.63	125.11	120.30
25	BB	503	A	C5-C6-N1	9.63	122.52	117.70
25	BB	1429	G	N3-C2-N2	-9.63	113.16	119.90
25	BB	1709	U	O4'-C1'-N1	9.63	115.91	108.20
25	BB	2319	G	C5-C6-N1	9.63	116.32	111.50
25	BB	2626	C	C2-N3-C4	-9.63	115.08	119.90
1	AE	31	A	C5-N7-C8	9.63	108.71	103.90
3	A1	554	A	C4-C5-N7	9.63	115.51	110.70
3	A1	968	A	N1-C2-N3	-9.63	124.49	129.30
3	A1	1239	A	C2-N3-C4	9.63	115.41	110.60
25	BB	2872	A	N1-C2-N3	9.63	134.12	129.30
25	BB	510	C	C1'-O4'-C4'	-9.63	102.20	109.90
25	BB	1269	A	C8-N9-C4	-9.63	101.95	105.80
25	BB	2603	G	C1'-O4'-C4'	9.63	117.60	109.90
3	A1	114	U	N1-C2-N3	9.63	120.67	114.90
25	BB	2191	A	C5-C6-N1	9.63	122.51	117.70
3	A1	1042	A	N1-C2-N3	-9.62	124.49	129.30
3	A1	1186	G	C5-C6-N1	9.62	116.31	111.50
25	BB	490	C	O4'-C1'-N1	9.62	115.90	108.20
25	BB	716	A	C4'-C3'-C2'	-9.62	92.97	102.60
25	BB	900	A	C4-C5-C6	-9.62	112.19	117.00
25	BB	2761	A	N1-C2-N3	-9.62	124.49	129.30
25	BB	2810	A	N9-C4-C5	-9.62	101.95	105.80
25	BB	395	U	C5-C6-N1	9.62	127.51	122.70
25	BB	531	C	N3-C4-C5	9.62	125.75	121.90
25	BB	2759	G	C6-C5-N7	9.62	136.17	130.40
25	BB	211	C	N1-C2-O2	9.62	124.67	118.90
25	BB	269	C	C4'-C3'-C2'	-9.62	92.98	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	619	G	C4-C5-N7	9.62	114.65	110.80
25	BB	1692	U	C5-C4-O4	-9.62	120.13	125.90
25	BB	2051	A	C3'-C2'-C1'	-9.62	93.80	101.50
25	BB	2053	G	N3-C4-C5	-9.62	123.79	128.60
25	BB	1961	C	C2-N3-C4	-9.62	115.09	119.90
3	A1	1317	C	C5-C6-N1	9.61	125.81	121.00
25	BB	2199	A	C6-N1-C2	-9.61	112.83	118.60
3	A1	388	G	N1-C6-O6	-9.61	114.13	119.90
3	A1	478	A	C8-N9-C4	-9.61	101.95	105.80
3	A1	1496	C	C2-N3-C4	-9.61	115.09	119.90
25	BB	1103	A	N1-C6-N6	-9.61	112.83	118.60
25	BB	1258	U	O4'-C1'-N1	-9.61	100.51	108.20
25	BB	534	U	O4'-C1'-N1	9.61	115.89	108.20
25	BB	1666	G	N9-C4-C5	9.61	109.25	105.40
25	BB	2330	G	C6-N1-C2	-9.61	119.33	125.10
3	A1	1306	A	C4'-C3'-C2'	-9.61	92.99	102.60
21	AV	14	ARG	NE-CZ-NH1	-9.61	115.50	120.30
24	BA	54	G	C4-C5-N7	-9.61	106.96	110.80
25	BB	73	A	N1-C6-N6	-9.61	112.83	118.60
25	BB	106	C	N1-C2-O2	9.61	124.67	118.90
3	A1	281	G	N3-C2-N2	-9.61	113.17	119.90
3	A1	774	G	N3-C4-C5	-9.61	123.80	128.60
3	A1	1410	A	C4-C5-N7	9.61	115.50	110.70
25	BB	1381	G	C5-N7-C8	9.61	109.10	104.30
25	BB	2097	A	N1-C6-N6	-9.61	112.83	118.60
55	B6	27	ARG	NE-CZ-NH1	9.61	125.10	120.30
3	A1	1347	G	N1-C2-N3	9.61	129.66	123.90
25	BB	736	C	C6-N1-C2	9.61	124.14	120.30
25	BB	982	C	C3'-C2'-C1'	9.61	109.19	101.50
25	BB	1091	G	C8-N9-C4	-9.61	102.56	106.40
25	BB	1349	C	C6-N1-C2	-9.61	116.46	120.30
25	BB	2157	G	N3-C4-N9	9.61	131.76	126.00
25	BB	2504	U	N1-C2-N3	9.61	120.66	114.90
3	A1	838	G	C6-N1-C2	-9.60	119.34	125.10
25	BB	177	G	C5-C6-N1	9.60	116.30	111.50
25	BB	1739	A	N7-C8-N9	-9.60	109.00	113.80
25	BB	2015	A	C2-N3-C4	9.60	115.40	110.60
3	A1	801	U	C4-C5-C6	9.60	125.46	119.70
3	A1	854	U	N1-C2-N3	9.60	120.66	114.90
25	BB	373	U	N1-C2-N3	9.60	120.66	114.90
25	BB	899	A	C2-N3-C4	9.60	115.40	110.60
39	BP	38	ARG	NE-CZ-NH2	9.60	125.10	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1499	A	C6-C5-N7	9.60	139.02	132.30
25	BB	955	U	N3-C2-O2	-9.60	115.48	122.20
3	A1	333	U	O4'-C1'-N1	9.60	115.88	108.20
3	A1	419	C	C5-C4-N4	-9.60	113.48	120.20
25	BB	352	A	C5-N7-C8	-9.60	99.10	103.90
25	BB	561	G	N1-C6-O6	-9.60	114.14	119.90
25	BB	1395	A	C4-C5-C6	-9.60	112.20	117.00
25	BB	1410	G	C6-N1-C2	-9.60	119.34	125.10
25	BB	502	A	C5-N7-C8	-9.60	99.10	103.90
25	BB	613	A	N9-C4-C5	9.60	109.64	105.80
25	BB	1039	A	C6-C5-N7	9.60	139.02	132.30
25	BB	1270	C	C1'-O4'-C4'	-9.60	102.22	109.90
3	A1	521	G	C6-N1-C2	-9.59	119.34	125.10
3	A1	622	A	C2-N3-C4	9.59	115.40	110.60
3	A1	684	U	N3-C2-O2	-9.59	115.48	122.20
25	BB	1053	C	N3-C2-O2	-9.59	115.18	121.90
25	BB	2388	A	C4-C5-C6	-9.59	112.20	117.00
3	A1	901	A	C2-N3-C4	9.59	115.40	110.60
25	BB	2174	C	O4'-C1'-N1	9.59	115.87	108.20
25	BB	109	C	C6-N1-C2	-9.59	116.46	120.30
3	A1	669	G	C6-C5-N7	9.59	136.15	130.40
3	A1	1233	G	C3'-C2'-C1'	9.59	109.17	101.50
25	BB	960	A	N9-C4-C5	9.59	109.64	105.80
25	BB	1026	G	O4'-C4'-C3'	9.59	113.77	106.10
25	BB	1039	A	N1-C6-N6	-9.59	112.85	118.60
25	BB	1168	G	N9-C4-C5	9.59	109.24	105.40
25	BB	2058	A	C6-N1-C2	-9.59	112.85	118.60
25	BB	2716	C	N3-C4-C5	9.59	125.74	121.90
49	BZ	201	ARG	NE-CZ-NH1	9.59	125.09	120.30
1	AA	54	U	N1-C2-N3	9.59	120.65	114.90
25	BB	776	G	N9-C4-C5	-9.59	101.56	105.40
25	BB	1589	U	C1'-O4'-C4'	-9.59	102.23	109.90
3	A1	437	U	N3-C2-O2	-9.59	115.49	122.20
3	A1	1171	A	N9-C4-C5	9.59	109.63	105.80
25	BB	218	A	C5-C6-N1	9.59	122.49	117.70
25	BB	608	A	N1-C2-N3	9.59	134.09	129.30
25	BB	827	U	N3-C4-C5	-9.59	108.85	114.60
25	BB	1749	A	C2-N3-C4	-9.59	105.81	110.60
25	BB	2184	A	C4-C5-C6	-9.59	112.21	117.00
3	A1	127	G	N9-C4-C5	9.58	109.23	105.40
3	A1	236	A	C6-N1-C2	-9.58	112.85	118.60
3	A1	1118	U	C6-N1-C2	-9.58	115.25	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	506	G	N3-C2-N2	-9.58	113.19	119.90
3	A1	1428	A	C5-C6-N1	9.58	122.49	117.70
25	BB	76	C	N3-C2-O2	-9.58	115.19	121.90
25	BB	384	A	C6-N1-C2	-9.58	112.85	118.60
25	BB	2175	C	N3-C4-N4	-9.58	111.29	118.00
25	BB	2350	C	N3-C2-O2	-9.58	115.19	121.90
2	AM	18	U	C3'-C2'-C1'	9.58	109.16	101.50
3	A1	236	A	C5-C6-N6	9.58	131.37	123.70
24	BA	29	A	C4-C5-C6	-9.58	112.21	117.00
25	BB	2840	C	N3-C2-O2	-9.58	115.19	121.90
25	BB	2886	A	C5-C6-N6	9.58	131.37	123.70
3	A1	250	A	C2-N3-C4	9.58	115.39	110.60
25	BB	332	A	C5-C6-N1	9.58	122.49	117.70
25	BB	2002	G	C5-C6-N1	9.58	116.29	111.50
33	BJ	49	ARG	NE-CZ-NH1	9.58	125.09	120.30
1	AA	15	G	N3-C2-N2	-9.58	113.20	119.90
3	A1	23	C	N3-C2-O2	-9.58	115.20	121.90
3	A1	962	C	O4'-C1'-N1	9.58	115.86	108.20
25	BB	1370	C	N1-C2-O2	9.58	124.65	118.90
3	A1	101	A	O4'-C1'-N9	9.58	115.86	108.20
3	A1	1177	G	C6-C5-N7	9.58	136.15	130.40
25	BB	543	G	N3-C4-C5	-9.58	123.81	128.60
25	BB	1040	A	C4-C5-C6	-9.58	112.21	117.00
25	BB	1212	G	N9-C4-C5	9.58	109.23	105.40
25	BB	2136	G	N9-C4-C5	9.58	109.23	105.40
25	BB	2597	G	C2-N3-C4	-9.58	107.11	111.90
3	A1	803	G	N7-C8-N9	9.57	117.89	113.10
3	A1	1177	G	C6-N1-C2	-9.57	119.36	125.10
3	A1	1334	G	C3'-C2'-C1'	9.57	109.16	101.50
25	BB	250	G	N7-C8-N9	9.57	117.89	113.10
25	BB	1626	A	C4-C5-C6	-9.57	112.21	117.00
25	BB	14	A	C5-C6-N1	9.57	122.48	117.70
25	BB	549	G	N3-C4-C5	-9.57	123.81	128.60
25	BB	764	A	C1'-O4'-C4'	-9.57	102.24	109.90
25	BB	1552	A	C2-N3-C4	9.57	115.38	110.60
25	BB	2342	C	C6-N1-C2	-9.57	116.47	120.30
25	BB	2358	A	C5-C6-N1	9.57	122.48	117.70
25	BB	2480	C	C5-C6-N1	-9.57	116.21	121.00
25	BB	2562	U	C4-C5-C6	9.57	125.44	119.70
29	BF	50	ARG	NH1-CZ-NH2	-9.57	108.87	119.40
3	A1	507	C	N3-C2-O2	-9.57	115.20	121.90
25	BB	2731	G	N7-C8-N9	9.57	117.88	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1163	A	C5-C6-N1	9.57	122.48	117.70
25	BB	444	C	N3-C4-C5	9.57	125.73	121.90
25	BB	1064	C	N1-C2-N3	9.57	125.90	119.20
25	BB	1100	C	C6-N1-C2	-9.57	116.47	120.30
25	BB	1907	G	N1-C6-O6	-9.57	114.16	119.90
25	BB	2152	G	C5-N7-C8	-9.57	99.52	104.30
25	BB	2357	G	C1'-O4'-C4'	-9.57	102.25	109.90
3	A1	86	G	N3-C2-N2	-9.56	113.20	119.90
3	A1	204	G	C5-N7-C8	9.56	109.08	104.30
3	A1	266	G	C6-C5-N7	9.56	136.14	130.40
3	A1	583	A	C5-C6-N6	9.56	131.35	123.70
3	A1	755	G	C8-N9-C4	-9.56	102.57	106.40
3	A1	1484	C	N3-C4-C5	9.56	125.72	121.90
25	BB	2091	C	N1-C2-O2	9.56	124.64	118.90
25	BB	1696	G	N1-C6-O6	-9.56	114.16	119.90
3	A1	49	U	C4-C5-C6	9.56	125.44	119.70
25	BB	1122	G	N9-C4-C5	9.56	109.22	105.40
25	BB	2885	G	C2-N3-C4	9.56	116.68	111.90
3	A1	892	A	C6-N1-C2	-9.56	112.86	118.60
3	A1	990	C	N3-C4-N4	-9.56	111.31	118.00
25	BB	351	C	N3-C4-C5	9.56	125.72	121.90
25	BB	500	G	O4'-C1'-N9	9.56	115.85	108.20
25	BB	533	G	C3'-C2'-C1'	9.56	109.15	101.50
25	BB	911	A	N7-C8-N9	9.56	118.58	113.80
3	A1	757	U	C5-C4-O4	-9.56	120.17	125.90
3	A1	1325	C	N3-C2-O2	-9.56	115.21	121.90
4	AB	224	ARG	NE-CZ-NH1	9.56	125.08	120.30
25	BB	513	A	C4-C5-C6	-9.56	112.22	117.00
25	BB	2052	A	C4-C5-C6	-9.56	112.22	117.00
25	BB	2170	A	C2-N3-C4	9.56	115.38	110.60
25	BB	2866	U	C2-N3-C4	-9.56	121.27	127.00
3	A1	349	A	N1-C2-N3	-9.55	124.52	129.30
3	A1	916	U	N1-C1'-C2'	9.55	126.42	114.00
25	BB	356	G	N9-C4-C5	9.55	109.22	105.40
25	BB	1946	U	N3-C4-C5	9.55	120.33	114.60
25	BB	2324	U	C2-N3-C4	-9.55	121.27	127.00
25	BB	2423	U	C4-C5-C6	9.55	125.43	119.70
3	A1	9	G	C4-C5-N7	-9.55	106.98	110.80
3	A1	351	G	C6-C5-N7	9.55	136.13	130.40
3	A1	681	A	C5-N7-C8	-9.55	99.12	103.90
3	A1	1278	G	N1-C6-O6	-9.55	114.17	119.90
3	A1	1182	G	C5-C6-N1	9.55	116.28	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1285	A	C5-C6-N6	9.55	131.34	123.70
11	AJ	64	ARG	NH1-CZ-NH2	-9.55	108.89	119.40
25	BB	101	A	C1'-O4'-C4'	-9.55	102.26	109.90
25	BB	1718	G	N1-C6-O6	-9.55	114.17	119.90
3	A1	451	A	C8-N9-C4	9.55	109.62	105.80
3	A1	1146	A	C5-C6-N1	9.55	122.47	117.70
3	A1	1206	G	N1-C6-O6	-9.55	114.17	119.90
3	A1	1339	A	C6-C5-N7	9.55	138.98	132.30
25	BB	892	A	C4-C5-C6	-9.55	112.23	117.00
25	BB	1263	U	C5-C4-O4	-9.55	120.17	125.90
25	BB	1472	C	N3-C4-N4	-9.55	111.32	118.00
25	BB	2394	C	C5'-C4'-O4'	9.55	120.56	109.10
25	BB	2724	U	N1-C2-O2	9.55	129.49	122.80
1	AA	75	C	C4'-C3'-C2'	-9.55	93.05	102.60
3	A1	103	U	C5-C4-O4	-9.54	120.17	125.90
3	A1	943	U	C6-N1-C2	-9.54	115.27	121.00
25	BB	609	A	N1-C6-N6	-9.54	112.87	118.60
25	BB	1685	C	N3-C2-O2	-9.54	115.22	121.90
25	BB	2294	G	C4-C5-N7	-9.54	106.98	110.80
25	BB	1512	C	C5-C6-N1	-9.54	116.23	121.00
25	BB	1780	A	C4-C5-C6	-9.54	112.23	117.00
25	BB	2200	C	N1-C2-O2	9.54	124.63	118.90
3	A1	11	G	C4'-C3'-C2'	-9.54	93.06	102.60
3	A1	118	U	N3-C2-O2	-9.54	115.52	122.20
3	A1	842	U	O4'-C4'-C3'	9.54	113.73	106.10
15	AO	126	ARG	NE-CZ-NH2	9.54	125.07	120.30
25	BB	1070	A	N1-C2-N3	-9.54	124.53	129.30
25	BB	2489	U	C5-C6-N1	-9.54	117.93	122.70
3	A1	879	C	N3-C2-O2	-9.54	115.22	121.90
16	AQ	34	ARG	NE-CZ-NH1	-9.54	115.53	120.30
25	BB	305	C	C1'-O4'-C4'	-9.54	102.27	109.90
25	BB	854	C	N3-C4-N4	-9.54	111.32	118.00
25	BB	945	A	C6-C5-N7	9.54	138.98	132.30
25	BB	1393	A	N1-C6-N6	-9.54	112.88	118.60
1	AP	44	A	C6-C5-N7	9.54	138.98	132.30
1	AE	18	G	N1-C6-O6	-9.54	114.18	119.90
25	BB	1235	G	C5-C6-O6	9.54	134.32	128.60
25	BB	2513	A	C6-C5-N7	9.54	138.97	132.30
25	BB	2683	C	N3-C4-N4	-9.54	111.33	118.00
3	A1	71	A	O4'-C1'-N9	9.53	115.83	108.20
3	A1	560	A	O4'-C1'-N9	9.53	115.83	108.20
3	A1	585	G	C4-C5-N7	9.53	114.61	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1651	G	C8-N9-C4	-9.53	102.59	106.40
1	AA	69	U	C5-C6-N1	-9.53	117.93	122.70
3	A1	74	A	N1-C6-N6	-9.53	112.88	118.60
24	BA	4	C	C1'-O4'-C4'	-9.53	102.28	109.90
25	BB	196	A	C5-C6-N6	9.53	131.32	123.70
25	BB	813	U	C4-C5-C6	9.53	125.42	119.70
25	BB	1839	G	C3'-C2'-C1'	9.53	109.12	101.50
25	BB	2558	C	N1-C2-O2	9.53	124.62	118.90
3	A1	625	U	N3-C2-O2	-9.53	115.53	122.20
3	A1	1039	G	C1'-O4'-C4'	-9.53	102.28	109.90
23	AX	45	ARG	NH1-CZ-NH2	-9.53	108.92	119.40
24	BA	65	U	O4'-C1'-N1	9.53	115.82	108.20
24	BA	112	G	N1-C6-O6	-9.53	114.18	119.90
25	BB	1612	C	N1-C2-O2	9.53	124.62	118.90
25	BB	2235	G	C4-C5-C6	-9.53	113.08	118.80
25	BB	2383	G	N3-C4-C5	-9.53	123.83	128.60
3	A1	293	G	C5-C6-O6	9.53	134.31	128.60
3	A1	411	A	C6-C5-N7	9.53	138.97	132.30
3	A1	908	A	C5-C6-N6	9.53	131.32	123.70
3	A1	1116	U	C4-C5-C6	9.53	125.42	119.70
25	BB	2412	A	C4-C5-C6	-9.53	112.24	117.00
25	BB	922	C	N3-C4-C5	9.53	125.71	121.90
25	BB	1290	C	N3-C4-C5	9.53	125.71	121.90
25	BB	1573	G	N1-C6-O6	-9.53	114.18	119.90
25	BB	1738	G	C4-C5-N7	-9.53	106.99	110.80
25	BB	401	A	N9-C4-C5	9.52	109.61	105.80
25	BB	1540	G	N1-C2-N3	9.52	129.61	123.90
3	A1	47	C	C2-N3-C4	-9.52	115.14	119.90
3	A1	779	C	C2-N3-C4	-9.52	115.14	119.90
25	BB	1792	G	N7-C8-N9	9.52	117.86	113.10
25	BB	1999	C	C5-C6-N1	-9.52	116.24	121.00
25	BB	2097	A	C2-N3-C4	9.52	115.36	110.60
25	BB	481	G	C5-C6-N1	9.52	116.26	111.50
25	BB	536	G	C5-C6-N1	9.52	116.26	111.50
25	BB	1011	G	N1-C6-O6	-9.52	114.19	119.90
25	BB	1268	A	C5-C6-N1	9.52	122.46	117.70
25	BB	1823	G	C4-C5-C6	-9.52	113.09	118.80
25	BB	1881	C	C4-C5-C6	9.52	122.16	117.40
25	BB	2788	C	N1-C2-O2	9.52	124.61	118.90
25	BB	1988	G	N7-C8-N9	9.52	117.86	113.10
25	BB	2643	G	C8-N9-C4	-9.52	102.59	106.40
3	A1	827	U	C5-C6-N1	-9.52	117.94	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1215	G	O4'-C1'-N9	-9.52	100.58	108.20
25	BB	1246	A	C4-C5-C6	-9.52	112.24	117.00
25	BB	2170	A	OP1-P-OP2	-9.52	105.32	119.60
25	BB	1604	C	N3-C4-C5	9.52	125.71	121.90
25	BB	2438	U	C4'-C3'-C2'	-9.52	93.08	102.60
25	BB	2678	C	O4'-C4'-C3'	9.52	113.71	106.10
3	A1	329	A	N9-C4-C5	9.52	109.61	105.80
3	A1	346	G	N1-C6-O6	-9.52	114.19	119.90
3	A1	374	A	N1-C6-N6	-9.52	112.89	118.60
3	A1	576	C	C6-N1-C2	-9.52	116.49	120.30
25	BB	1254	A	C5-C6-N6	9.52	131.31	123.70
25	BB	1396	U	O4'-C1'-N1	9.52	115.81	108.20
25	BB	1727	C	C4'-C3'-C2'	-9.52	93.08	102.60
25	BB	1788	C	N3-C4-N4	-9.52	111.34	118.00
25	BB	2279	G	C4-C5-N7	-9.52	106.99	110.80
3	A1	71	A	C5-C6-N6	9.51	131.31	123.70
3	A1	719	C	N3-C2-O2	-9.51	115.24	121.90
3	A1	784	A	C4-C5-C6	-9.51	112.24	117.00
3	A1	1135	U	C1'-O4'-C4'	-9.51	102.29	109.90
24	BA	36	C	C5-C6-N1	-9.51	116.24	121.00
25	BB	750	A	C5-C6-N6	9.51	131.31	123.70
25	BB	241	A	N1-C6-N6	-9.51	112.89	118.60
25	BB	2061	G	C4-C5-N7	9.51	114.61	110.80
3	A1	1378	C	C2-N3-C4	-9.51	115.14	119.90
25	BB	858	G	N7-C8-N9	9.51	117.86	113.10
1	AA	21	A	N9-C4-C5	-9.51	102.00	105.80
3	A1	1156	G	C6-N1-C2	-9.51	119.39	125.10
3	A1	1275	A	C8-N9-C4	-9.51	102.00	105.80
25	BB	76	C	O4'-C4'-C3'	9.51	113.71	106.10
3	A1	1195	C	C3'-C2'-C1'	9.51	109.11	101.50
3	A1	1263	C	C5-C6-N1	-9.51	116.25	121.00
3	A1	1488	G	C6-N1-C2	-9.51	119.40	125.10
25	BB	147	C	N3-C2-O2	-9.51	115.25	121.90
25	BB	2075	U	O4'-C4'-C3'	9.51	113.71	106.10
25	BB	146	A	C8-N9-C4	-9.51	102.00	105.80
25	BB	1102	C	N3-C4-C5	9.51	125.70	121.90
25	BB	1689	A	C4-C5-C6	-9.51	112.25	117.00
25	BB	1870	C	O4'-C1'-C2'	-9.51	96.29	105.80
25	BB	2226	C	C5-C6-N1	-9.51	116.25	121.00
25	BB	2279	G	N1-C2-N3	9.51	129.60	123.90
25	BB	2564	A	N1-C6-N6	-9.51	112.90	118.60
25	BB	2703	C	N1-C2-O2	9.51	124.60	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AE	27	C	C4-C5-C6	-9.50	112.65	117.40
3	A1	877	G	N3-C2-N2	-9.50	113.25	119.90
25	BB	1450	G	N1-C2-N3	9.50	129.60	123.90
3	A1	659	U	N3-C2-O2	-9.50	115.55	122.20
3	A1	926	G	C4-C5-C6	-9.50	113.10	118.80
25	BB	376	G	N3-C2-N2	-9.50	113.25	119.90
25	BB	1285	A	C4-C5-C6	-9.50	112.25	117.00
25	BB	2099	U	N3-C2-O2	-9.50	115.55	122.20
25	BB	2827	C	O4'-C1'-N1	9.50	115.80	108.20
1	AA	46	G	N1-C2-N3	9.50	129.60	123.90
1	AA	57	G	C5-C6-O6	9.50	134.30	128.60
3	A1	723	U	N3-C2-O2	-9.50	115.55	122.20
21	AV	113	ARG	NE-CZ-NH2	-9.50	115.55	120.30
25	BB	1290	C	N3-C4-N4	-9.50	111.35	118.00
25	BB	2617	U	C5-C4-O4	9.50	131.60	125.90
25	BB	358	U	N3-C2-O2	-9.50	115.55	122.20
25	BB	985	C	O4'-C1'-N1	9.50	115.80	108.20
25	BB	1942	C	C2-N3-C4	-9.50	115.15	119.90
37	BN	86	ARG	NE-CZ-NH2	9.50	125.05	120.30
3	A1	632	U	C5-C6-N1	-9.50	117.95	122.70
3	A1	880	C	P-O3'-C3'	9.50	131.10	119.70
3	A1	1207	G	C6-C5-N7	9.50	136.10	130.40
25	BB	147	C	N3-C4-N4	-9.50	111.35	118.00
25	BB	195	A	N1-C2-N3	9.50	134.05	129.30
25	BB	855	G	C4-C5-N7	9.50	114.60	110.80
25	BB	2458	G	C2-N3-C4	-9.50	107.15	111.90
25	BB	2694	G	O4'-C4'-C3'	9.50	113.70	106.10
25	BB	2893	A	C8-N9-C4	9.50	109.60	105.80
1	AA	69	U	O4'-C1'-N1	9.49	115.80	108.20
3	A1	49	U	N1-C2-N3	9.49	120.60	114.90
3	A1	1004	A	C5-C6-N6	9.49	131.29	123.70
3	A1	1254	A	C4-C5-C6	-9.49	112.25	117.00
25	BB	2383	G	C2-N3-C4	9.49	116.65	111.90
25	BB	2415	G	N3-C4-C5	-9.49	123.85	128.60
25	BB	443	A	C8-N9-C4	-9.49	102.00	105.80
25	BB	960	A	N1-C2-N3	-9.49	124.55	129.30
50	B1	114	ARG	NE-CZ-NH2	9.49	125.05	120.30
25	BB	2576	G	C2-N3-C4	9.49	116.65	111.90
25	BB	2801	G	N1-C2-N3	9.49	129.59	123.90
3	A1	600	A	C4-C5-N7	-9.49	105.95	110.70
3	A1	318	G	N9-C4-C5	9.49	109.20	105.40
3	A1	485	U	O4'-C1'-N1	9.49	115.79	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1083	U	N3-C4-C5	9.49	120.29	114.60
25	BB	633	A	C4-C5-C6	-9.49	112.25	117.00
25	BB	1471	G	N1-C2-N3	9.49	129.59	123.90
25	BB	182	A	C5-C6-N1	9.49	122.44	117.70
25	BB	378	C	N3-C2-O2	-9.49	115.26	121.90
25	BB	2761	A	N9-C4-C5	-9.49	102.00	105.80
24	BA	16	G	N1-C6-O6	-9.49	114.21	119.90
25	BB	289	G	C6-N1-C2	-9.49	119.41	125.10
25	BB	335	C	C5-C4-N4	-9.49	113.56	120.20
25	BB	1092	C	N3-C4-N4	-9.49	111.36	118.00
25	BB	1597	A	N9-C4-C5	9.49	109.59	105.80
25	BB	1262	A	C6-C5-N7	9.49	138.94	132.30
25	BB	1509	A	C5-C6-N1	9.49	122.44	117.70
25	BB	1536	C	C2-N3-C4	-9.49	115.16	119.90
25	BB	2004	G	N1-C6-O6	-9.49	114.21	119.90
3	A1	1181	G	N1-C6-O6	-9.48	114.21	119.90
25	BB	2079	U	O4'-C4'-C3'	-9.48	94.52	104.00
25	BB	2752	C	C1'-O4'-C4'	-9.48	102.31	109.90
3	A1	682	G	N1-C2-N3	9.48	129.59	123.90
3	A1	892	A	C4-C5-N7	9.48	115.44	110.70
25	BB	404	A	C5-C6-N6	9.48	131.29	123.70
25	BB	953	G	N1-C6-O6	-9.48	114.21	119.90
25	BB	1498	C	N3-C2-O2	-9.48	115.26	121.90
25	BB	2816	G	C4-C5-C6	-9.48	113.11	118.80
1	AA	17	U	C5-C6-N1	-9.48	117.96	122.70
3	A1	221	C	O4'-C1'-N1	9.48	115.78	108.20
3	A1	264	C	O4'-C1'-N1	9.48	115.78	108.20
3	A1	294	U	N3-C2-O2	-9.48	115.56	122.20
3	A1	626	G	C5-C6-N1	9.48	116.24	111.50
25	BB	748	G	N3-C2-N2	-9.48	113.26	119.90
25	BB	1414	C	N1-C2-O2	9.48	124.59	118.90
25	BB	2462	C	C2-N3-C4	-9.48	115.16	119.90
3	A1	33	A	O4'-C1'-N9	9.48	115.78	108.20
3	A1	862	C	N3-C2-O2	-9.48	115.27	121.90
25	BB	1281	G	C6-N1-C2	-9.48	119.41	125.10
25	BB	2598	A	C5-N7-C8	-9.48	99.16	103.90
24	BA	30	C	C6-N1-C2	-9.48	116.51	120.30
25	BB	230	G	N3-C2-N2	-9.48	113.27	119.90
25	BB	623	C	N3-C4-N4	-9.48	111.37	118.00
25	BB	2158	A	C2-N3-C4	9.48	115.34	110.60
25	BB	2613	U	N1-C2-N3	9.48	120.59	114.90
25	BB	879	G	C2-N3-C4	-9.48	107.16	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	891	G	N3-C4-N9	9.48	131.69	126.00
25	BB	2530	A	C2-N3-C4	9.48	115.34	110.60
1	AE	42	G	N3-C4-C5	-9.47	123.86	128.60
25	BB	2067	G	N1-C6-O6	-9.47	114.22	119.90
3	A1	722	G	C5'-C4'-O4'	9.47	120.47	109.10
3	A1	1446	A	O4'-C1'-N9	9.47	115.78	108.20
25	BB	259	G	C5-N7-C8	-9.47	99.56	104.30
25	BB	2130	U	N1-C2-O2	9.47	129.43	122.80
3	A1	202	G	C5-C6-O6	9.47	134.28	128.60
3	A1	824	G	C5-C6-O6	9.47	134.28	128.60
24	BA	76	G	C5'-C4'-O4'	9.47	120.47	109.10
25	BB	301	G	O4'-C1'-N9	9.47	115.78	108.20
25	BB	569	U	O4'-C1'-N1	9.47	115.78	108.20
25	BB	672	C	C2-N3-C4	-9.47	115.16	119.90
25	BB	806	C	N3-C4-N4	-9.47	111.37	118.00
25	BB	1014	A	C4-C5-C6	-9.47	112.27	117.00
25	BB	1386	C	C2-N3-C4	-9.47	115.17	119.90
25	BB	1570	A	C5-C6-N1	9.47	122.44	117.70
25	BB	1991	U	C5-C4-O4	-9.47	120.22	125.90
3	A1	1279	G	N7-C8-N9	9.47	117.83	113.10
3	A1	1323	G	N1-C6-O6	-9.47	114.22	119.90
25	BB	318	C	O4'-C1'-N1	9.47	115.77	108.20
25	BB	402	A	N7-C8-N9	-9.47	109.07	113.80
25	BB	629	G	N1-C6-O6	-9.47	114.22	119.90
25	BB	1162	G	N1-C2-N2	-9.47	107.68	116.20
25	BB	1300	G	C6-C5-N7	9.47	136.08	130.40
25	BB	2177	C	C2-N3-C4	-9.47	115.17	119.90
25	BB	2602	A	C6-N1-C2	-9.47	112.92	118.60
25	BB	2779	U	C2-N3-C4	-9.47	121.32	127.00
1	AP	29	A	C8-N9-C4	-9.47	102.01	105.80
3	A1	929	G	C5-C6-N1	9.46	116.23	111.50
24	BA	67	G	N1-C6-O6	-9.47	114.22	119.90
25	BB	1431	A	C5-N7-C8	-9.47	99.17	103.90
15	AO	163	ARG	NE-CZ-NH1	9.46	125.03	120.30
25	BB	1005	C	C5-C6-N1	-9.46	116.27	121.00
25	BB	1131	G	C4-C5-C6	-9.46	113.12	118.80
25	BB	1359	A	N7-C8-N9	9.46	118.53	113.80
25	BB	1720	U	N3-C2-O2	-9.46	115.58	122.20
25	BB	1927	A	C5-C6-N6	9.46	131.27	123.70
1	AE	37	G	N7-C8-N9	9.46	117.83	113.10
1	AE	65	G	C5-C6-N1	9.46	116.23	111.50
3	A1	43	C	O4'-C1'-N1	9.46	115.77	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	721	G	C5'-C4'-O4'	-9.46	97.74	109.10
25	BB	554	U	N1-C2-N3	9.46	120.58	114.90
25	BB	2275	C	C6-N1-C2	-9.46	116.52	120.30
3	A1	716	A	C5-C6-N1	9.46	122.43	117.70
25	BB	217	A	C4-C5-C6	-9.46	112.27	117.00
25	BB	2418	A	C5-C6-N1	9.46	122.43	117.70
25	BB	957	C	C5-C6-N1	-9.46	116.27	121.00
3	A1	371	A	C8-N9-C4	-9.46	102.02	105.80
3	A1	782	A	O4'-C1'-N9	9.46	115.77	108.20
25	BB	402	A	C8-N9-C4	9.46	109.58	105.80
25	BB	500	G	C2-N3-C4	9.46	116.63	111.90
25	BB	1688	U	O4'-C1'-N1	9.46	115.77	108.20
25	BB	2299	U	C6-N1-C2	-9.46	115.32	121.00
25	BB	2339	C	N3-C2-O2	-9.46	115.28	121.90
3	A1	47	C	N3-C4-N4	-9.46	111.38	118.00
3	A1	946	A	N7-C8-N9	9.46	118.53	113.80
3	A1	1404	C	C6-N1-C2	-9.46	116.52	120.30
25	BB	1947	C	C2-N3-C4	-9.46	115.17	119.90
25	BB	2083	G	N1-C2-N3	9.46	129.57	123.90
25	BB	2735	G	C5-N7-C8	-9.46	99.57	104.30
25	BB	693	A	C6-N1-C2	-9.45	112.93	118.60
25	BB	1315	C	C5-C6-N1	-9.45	116.27	121.00
25	BB	1761	C	N3-C4-N4	-9.46	111.38	118.00
25	BB	2818	U	N3-C2-O2	-9.46	115.58	122.20
48	BY	128	ARG	NH1-CZ-NH2	-9.45	109.00	119.40
3	A1	688	G	N1-C2-N3	9.45	129.57	123.90
25	BB	1215	G	N1-C6-O6	-9.45	114.23	119.90
3	A1	779	C	N3-C4-C5	9.45	125.68	121.90
24	BA	40	U	C3'-C2'-C1'	9.45	109.06	101.50
25	BB	492	A	N3-C4-C5	-9.45	120.18	126.80
25	BB	1456	G	N7-C8-N9	9.45	117.83	113.10
25	BB	2765	A	C6-N1-C2	-9.45	112.93	118.60
31	BH	102	ARG	NE-CZ-NH2	-9.45	115.57	120.30
1	AP	30	G	N3-C4-C5	-9.45	123.88	128.60
3	A1	90	C	N3-C4-C5	9.45	125.68	121.90
3	A1	736	C	C5-C6-N1	-9.45	116.28	121.00
3	A1	937	A	C2-N3-C4	9.45	115.33	110.60
25	BB	1942	C	C5-C6-N1	-9.45	116.28	121.00
25	BB	2055	C	N3-C4-N4	-9.45	111.39	118.00
3	A1	748	G	C6-N1-C2	-9.45	119.43	125.10
3	A1	1489	G	N3-C4-N9	9.45	131.67	126.00
25	BB	13	A	C4-C5-C6	-9.45	112.28	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	26	G	O4'-C4'-C3'	9.45	113.66	106.10
25	BB	976	G	C5-C6-O6	9.45	134.27	128.60
25	BB	2155	U	O4'-C1'-N1	9.45	115.76	108.20
1	AP	12	U	O4'-C1'-N1	9.45	115.76	108.20
1	AP	27	C	C5-C4-N4	-9.45	113.59	120.20
3	A1	872	A	O4'-C1'-N9	9.45	115.76	108.20
3	A1	1221	G	N9-C4-C5	9.45	109.18	105.40
25	BB	296	U	N1-C2-N3	9.45	120.57	114.90
25	BB	2177	C	C1'-O4'-C4'	-9.45	102.34	109.90
25	BB	2198	A	C5-C6-N1	9.45	122.42	117.70
25	BB	2763	G	O4'-C1'-N9	9.45	115.76	108.20
1	AE	38	A	N1-C6-N6	-9.44	112.93	118.60
3	A1	299	G	C6-N1-C2	-9.44	119.43	125.10
3	A1	378	G	C3'-C2'-C1'	-9.44	93.94	101.50
3	A1	721	G	C4-C5-N7	9.44	114.58	110.80
3	A1	1218	C	N1-C2-N3	9.44	125.81	119.20
24	BA	23	G	C2-N3-C4	9.44	116.62	111.90
25	BB	94	A	C1'-O4'-C4'	-9.44	102.34	109.90
25	BB	1501	G	C3'-C2'-C1'	-9.44	93.94	101.50
25	BB	1638	C	C4-C5-C6	9.44	122.12	117.40
25	BB	1842	G	C6-N1-C2	-9.45	119.43	125.10
3	A1	12	U	C3'-C2'-C1'	9.44	109.05	101.50
25	BB	1117	C	C2-N3-C4	-9.44	115.18	119.90
25	BB	1191	G	C6-N1-C2	-9.44	119.44	125.10
25	BB	1797	G	N3-C2-N2	-9.44	113.29	119.90
25	BB	2413	G	C5-C6-N1	9.44	116.22	111.50
25	BB	1957	C	C2-N3-C4	-9.44	115.18	119.90
25	BB	2267	A	N1-C2-N3	-9.44	124.58	129.30
3	A1	1441	A	C1'-O4'-C4'	9.44	117.45	109.90
25	BB	1106	G	O4'-C4'-C3'	9.44	113.65	106.10
25	BB	1263	U	O4'-C1'-N1	-9.44	100.65	108.20
25	BB	2394	C	N3-C2-O2	-9.44	115.29	121.90
3	A1	771	G	N1-C6-O6	-9.44	114.24	119.90
3	A1	796	C	N3-C4-C5	9.44	125.67	121.90
25	BB	2082	A	C8-N9-C4	-9.44	102.03	105.80
3	A1	1418	A	N9-C4-C5	-9.44	102.03	105.80
25	BB	862	G	C5'-C4'-C3'	-9.44	100.90	116.00
25	BB	1384	A	C5-N7-C8	-9.44	99.18	103.90
25	BB	1700	A	N7-C8-N9	9.44	118.52	113.80
25	BB	2088	A	N1-C6-N6	-9.44	112.94	118.60
25	BB	2169	A	C4-C5-C6	-9.44	112.28	117.00
25	BB	2236	U	N1-C2-N3	9.44	120.56	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2386	A	C5-C6-N6	9.44	131.25	123.70
25	BB	2542	A	C4-C5-C6	-9.44	112.28	117.00
25	BB	2718	G	N7-C8-N9	9.44	117.82	113.10
25	BB	2902	C	C6-N1-C2	9.44	124.07	120.30
3	A1	1324	A	C6-C5-N7	9.43	138.90	132.30
25	BB	1877	A	N1-C6-N6	-9.43	112.94	118.60
3	A1	754	C	N3-C4-N4	-9.43	111.40	118.00
3	A1	951	G	N3-C4-C5	-9.43	123.88	128.60
25	BB	975	A	C6-C5-N7	9.43	138.90	132.30
25	BB	1139	G	C4-C5-C6	-9.43	113.14	118.80
25	BB	1478	G	N3-C4-C5	-9.43	123.88	128.60
25	BB	2024	G	N9-C1'-C2'	-9.43	101.62	112.00
25	BB	2693	G	C6-C5-N7	9.43	136.06	130.40
2	AM	14	U	N1-C2-N3	9.43	120.56	114.90
3	A1	159	G	C1'-O4'-C4'	-9.43	102.36	109.90
3	A1	169	C	O4'-C4'-C3'	9.43	113.64	106.10
10	AI	5	ARG	CD-NE-CZ	9.43	136.80	123.60
25	BB	134	G	N7-C8-N9	9.43	117.81	113.10
25	BB	773	U	C5-C6-N1	-9.43	117.98	122.70
25	BB	1029	A	C5-C6-N6	9.43	131.25	123.70
1	AP	56	C	N3-C2-O2	-9.43	115.30	121.90
25	BB	246	C	C5-C6-N1	9.43	125.71	121.00
25	BB	2120	G	C2-N3-C4	9.43	116.61	111.90
3	A1	768	A	N9-C4-C5	9.43	109.57	105.80
3	A1	923	A	C4-C5-N7	9.43	115.41	110.70
3	A1	1224	U	N1-C2-N3	9.43	120.56	114.90
25	BB	968	C	N1-C2-O2	9.43	124.56	118.90
25	BB	1307	A	C5-C6-N1	9.43	122.41	117.70
25	BB	1572	A	C5-C6-N1	9.43	122.41	117.70
25	BB	1696	G	O4'-C1'-N9	9.43	115.74	108.20
25	BB	1847	A	C5-C6-N1	9.43	122.41	117.70
3	A1	112	G	N3-C4-C5	-9.42	123.89	128.60
3	A1	734	G	O4'-C1'-N9	9.42	115.74	108.20
3	A1	784	A	N1-C2-N3	9.42	134.01	129.30
3	A1	952	U	C5-C6-N1	-9.42	117.99	122.70
25	BB	919	U	C2-N3-C4	-9.42	121.35	127.00
25	BB	1870	C	N1-C2-O2	9.42	124.55	118.90
25	BB	2620	C	C4-C5-C6	-9.42	112.69	117.40
25	BB	2314	A	C6-C5-N7	9.42	138.90	132.30
1	AA	24	G	C8-N9-C4	-9.42	102.63	106.40
3	A1	1046	A	C6-C5-N7	9.42	138.90	132.30
3	A1	1288	A	C3'-C2'-C1'	9.42	109.04	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	BN	220	ARG	NE-CZ-NH1	9.42	125.01	120.30
25	BB	702	U	C4-C5-C6	9.42	125.35	119.70
25	BB	1513	U	C3'-C2'-C1'	-9.42	93.96	101.50
25	BB	1771	C	O4'-C1'-N1	9.42	115.74	108.20
25	BB	2331	G	C5-C6-N1	9.42	116.21	111.50
25	BB	2535	G	N9-C4-C5	-9.42	101.63	105.40
30	BG	69	ARG	NE-CZ-NH1	9.42	125.01	120.30
1	AA	6	U	O4'-C1'-N1	9.42	115.73	108.20
25	BB	1478	G	C4-C5-N7	-9.42	107.03	110.80
25	BB	1529	G	N7-C8-N9	9.42	117.81	113.10
3	A1	918	A	C4'-C3'-C2'	9.42	112.02	102.60
25	BB	1491	G	N3-C4-C5	-9.42	123.89	128.60
25	BB	1684	G	N7-C8-N9	-9.42	108.39	113.10
31	BH	117	PHE	CB-CG-CD1	-9.42	114.21	120.80
3	A1	1077	G	C4-C5-N7	-9.41	107.03	110.80
21	AV	116	ARG	NE-CZ-NH2	9.41	125.01	120.30
25	BB	1540	G	C6-N1-C2	-9.41	119.45	125.10
25	BB	2691	C	C6-N1-C2	9.41	124.07	120.30
1	AA	68	U	C2-N3-C4	-9.41	121.35	127.00
3	A1	1127	G	N3-C4-C5	-9.41	123.89	128.60
3	A1	1523	G	N9-C4-C5	9.41	109.17	105.40
25	BB	2750	A	C1'-O4'-C4'	-9.41	102.37	109.90
25	BB	2884	U	O4'-C1'-N1	9.41	115.73	108.20
3	A1	88	U	N1-C2-N3	9.41	120.55	114.90
1	AE	28	C	C5-C4-N4	-9.41	113.61	120.20
3	A1	100	G	C5-C6-N1	9.41	116.20	111.50
3	A1	197	A	N1-C6-N6	-9.41	112.95	118.60
3	A1	1216	A	C4-C5-C6	-9.41	112.30	117.00
3	A1	1528	U	N3-C2-O2	-9.41	115.61	122.20
25	BB	180	G	C5-C6-N1	9.41	116.20	111.50
25	BB	428	A	C2-N3-C4	9.41	115.31	110.60
25	BB	673	C	C6-N1-C2	-9.41	116.54	120.30
25	BB	1765	U	C3'-C2'-C1'	9.41	109.03	101.50
25	BB	1838	C	N3-C4-C5	9.41	125.66	121.90
1	AP	30	G	N3-C2-N2	-9.41	113.32	119.90
3	A1	654	G	N1-C2-N3	9.41	129.54	123.90
25	BB	402	A	C2-N3-C4	9.41	115.30	110.60
25	BB	521	U	C6-N1-C2	-9.41	115.36	121.00
25	BB	829	A	N1-C6-N6	-9.41	112.96	118.60
25	BB	1836	C	C5-C6-N1	-9.41	116.30	121.00
3	A1	67	C	N3-C2-O2	-9.40	115.32	121.90
25	BB	741	U	N3-C2-O2	-9.40	115.62	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	297	G	C8-N9-C4	-9.40	102.64	106.40
3	A1	1006	G	C8-N9-C4	9.40	110.16	106.40
4	AB	31	PHE	CB-CG-CD1	-9.40	114.22	120.80
25	BB	189	G	C4-C5-N7	9.40	114.56	110.80
25	BB	294	A	N7-C8-N9	-9.40	109.10	113.80
25	BB	1248	G	N9-C4-C5	9.40	109.16	105.40
25	BB	1608	A	C5-C6-N1	9.40	122.40	117.70
1	AP	18	G	C6-N1-C2	-9.40	119.46	125.10
3	A1	628	G	N1-C2-N3	9.40	129.54	123.90
25	BB	2838	G	C6-N1-C2	-9.40	119.46	125.10
3	A1	28	A	C5-C6-N1	9.40	122.40	117.70
3	A1	594	U	C5-C6-N1	-9.40	118.00	122.70
24	BA	6	G	C6-N1-C2	-9.40	119.46	125.10
25	BB	599	A	C5-C6-N1	9.40	122.40	117.70
25	BB	344	A	C4-C5-C6	-9.40	112.30	117.00
25	BB	487	C	C2-N3-C4	-9.40	115.20	119.90
25	BB	2115	G	O4'-C1'-N9	9.40	115.72	108.20
25	BB	158	U	C2-N3-C4	-9.40	121.36	127.00
25	BB	416	U	C3'-C2'-C1'	9.40	109.02	101.50
25	BB	1084	A	N1-C2-N3	-9.40	124.60	129.30
3	A1	1126	U	N3-C2-O2	-9.40	115.62	122.20
25	BB	1211	C	N3-C4-C5	9.40	125.66	121.90
25	BB	2387	U	O4'-C1'-N1	9.40	115.72	108.20
25	BB	2585	U	N3-C2-O2	-9.40	115.62	122.20
25	BB	2826	A	C5-C6-N1	9.40	122.40	117.70
3	A1	608	A	C2-N3-C4	9.39	115.30	110.60
25	BB	63	A	N1-C2-N3	-9.39	124.60	129.30
25	BB	474	G	O4'-C1'-N9	9.39	115.72	108.20
25	BB	666	A	C4-C5-C6	-9.39	112.30	117.00
25	BB	1185	G	C5-C6-O6	9.39	134.24	128.60
25	BB	1449	G	C5-C6-O6	-9.39	122.96	128.60
25	BB	1620	G	N3-C4-N9	-9.39	120.36	126.00
25	BB	1681	G	C5-C6-O6	9.39	134.24	128.60
25	BB	2880	C	C4'-C3'-C2'	9.39	111.99	102.60
3	A1	929	G	C4-C5-C6	-9.39	113.17	118.80
25	BB	1317	G	C8-N9-C4	-9.39	102.64	106.40
3	A1	327	A	C5-C6-N6	9.39	131.21	123.70
10	AI	14	ARG	CD-NE-CZ	9.39	136.75	123.60
25	BB	56	A	C4-C5-C6	-9.39	112.30	117.00
25	BB	1115	G	C5-N7-C8	-9.39	99.61	104.30
25	BB	1392	A	N1-C2-N3	-9.39	124.60	129.30
25	BB	2368	C	N1-C2-O2	9.39	124.53	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	74	C	C5'-C4'-C3'	-9.39	100.98	116.00
1	AE	17	U	C2-N3-C4	-9.39	121.37	127.00
3	A1	400	C	C4'-C3'-C2'	-9.39	93.21	102.60
3	A1	1247	U	C5-C6-N1	-9.39	118.01	122.70
3	A1	1518	A	C8-N9-C4	-9.39	102.05	105.80
17	AR	72	ARG	NE-CZ-NH1	9.39	125.00	120.30
24	BA	60	C	C4-C5-C6	9.39	122.09	117.40
25	BB	2750	A	C8-N9-C4	-9.39	102.05	105.80
25	BB	745	G	N3-C2-N2	-9.39	113.33	119.90
25	BB	883	G	N1-C2-N3	9.39	129.53	123.90
25	BB	1324	G	C4-C5-N7	9.39	114.56	110.80
25	BB	1681	G	N1-C6-O6	-9.39	114.27	119.90
25	BB	2718	G	N1-C6-O6	-9.39	114.27	119.90
25	BB	2835	A	C5-C6-N1	9.39	122.39	117.70
25	BB	800	A	C5-C6-N1	9.39	122.39	117.70
25	BB	855	G	C5-C6-O6	9.38	134.23	128.60
25	BB	2668	G	N1-C6-O6	-9.38	114.27	119.90
3	A1	939	G	N1-C6-O6	-9.38	114.27	119.90
25	BB	475	C	N1-C2-O2	9.38	124.53	118.90
1	AE	76	A	C6-C5-N7	9.38	138.87	132.30
3	A1	883	C	N3-C4-N4	-9.38	111.43	118.00
3	A1	983	A	N1-C6-N6	-9.38	112.97	118.60
3	A1	1254	A	C5'-C4'-O4'	9.38	120.36	109.10
3	A1	1507	A	C4-C5-C6	-9.38	112.31	117.00
25	BB	95	A	C6-N1-C2	-9.38	112.97	118.60
25	BB	857	G	N3-C2-N2	-9.38	113.33	119.90
25	BB	1065	U	C2-N3-C4	-9.38	121.37	127.00
25	BB	1314	C	N3-C4-N4	-9.38	111.43	118.00
25	BB	2193	G	O4'-C1'-N9	9.38	115.70	108.20
25	BB	2490	G	C4'-C3'-C2'	-9.38	93.22	102.60
1	AA	55	U	C5-C4-O4	9.38	131.53	125.90
1	AA	56	C	C1'-O4'-C4'	-9.38	102.40	109.90
1	AP	8	U	C5-C4-O4	9.38	131.53	125.90
24	BA	19	C	C3'-C2'-C1'	-9.38	94.00	101.50
25	BB	1570	A	N9-C4-C5	9.38	109.55	105.80
25	BB	718	A	C4-C5-C6	-9.38	112.31	117.00
25	BB	1009	A	N1-C2-N3	-9.38	124.61	129.30
25	BB	1610	A	O4'-C1'-N9	9.38	115.70	108.20
25	BB	2190	G	C4-C5-C6	-9.38	113.17	118.80
32	BI	98	TYR	CB-CG-CD2	-9.38	115.37	121.00
3	A1	144	G	N7-C8-N9	9.38	117.79	113.10
3	A1	542	G	N3-C4-C5	-9.38	123.91	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	752	G	C8-N9-C4	-9.38	102.65	106.40
3	A1	765	G	C6-N1-C2	-9.38	119.47	125.10
3	A1	1313	U	N3-C2-O2	-9.38	115.64	122.20
3	A1	1227	A	C4-C5-C6	-9.37	112.31	117.00
3	A1	1337	G	N3-C4-C5	-9.38	123.91	128.60
23	AX	72	ARG	NE-CZ-NH2	9.38	124.99	120.30
24	BA	55	U	N3-C2-O2	-9.38	115.64	122.20
25	BB	74	A	C5-C6-N6	9.38	131.20	123.70
25	BB	747	U	N3-C2-O2	-9.37	115.64	122.20
25	BB	1033	U	N1-C2-N3	-9.38	109.28	114.90
25	BB	1776	G	C4'-C3'-C2'	-9.38	93.22	102.60
25	BB	1905	C	C2-N3-C4	-9.38	115.21	119.90
25	BB	2063	C	N1-C2-O2	9.38	124.53	118.90
25	BB	2886	A	N9-C4-C5	9.37	109.55	105.80
3	A1	173	U	O4'-C4'-C3'	9.37	113.60	106.10
3	A1	525	C	C4'-C3'-C2'	-9.37	93.23	102.60
3	A1	900	A	O4'-C1'-N9	-9.37	100.70	108.20
25	BB	46	G	C8-N9-C4	-9.37	102.65	106.40
3	A1	1410	A	C8-N9-C4	-9.37	102.05	105.80
3	A1	349	A	N9-C4-C5	-9.37	102.05	105.80
3	A1	468	A	C4-C5-C6	-9.37	112.32	117.00
3	A1	786	G	C5-C6-N1	9.37	116.18	111.50
3	A1	1026	G	C6-N1-C2	-9.37	119.48	125.10
7	AF	106	ARG	NE-CZ-NH1	9.37	124.98	120.30
25	BB	415	A	C2-N3-C4	9.37	115.28	110.60
25	BB	820	A	C4-C5-C6	-9.37	112.32	117.00
25	BB	1056	G	N3-C4-C5	-9.37	123.92	128.60
25	BB	1208	C	C3'-C2'-C1'	9.37	108.99	101.50
25	BB	2283	C	C2-N3-C4	-9.37	115.22	119.90
3	A1	478	A	C4-C5-C6	-9.36	112.32	117.00
3	A1	1169	A	O4'-C1'-N9	9.36	115.69	108.20
25	BB	1397	U	N1-C2-O2	9.36	129.35	122.80
25	BB	1805	A	C5-C6-N1	9.36	122.38	117.70
25	BB	2022	U	C5-C6-N1	-9.37	118.02	122.70
25	BB	2039	U	C1'-O4'-C4'	9.37	117.39	109.90
25	BB	2063	C	C6-N1-C2	9.36	124.05	120.30
3	A1	737	C	N1-C2-N3	9.36	125.75	119.20
25	BB	1505	A	O4'-C1'-N9	-9.36	100.71	108.20
25	BB	2047	C	N3-C4-N4	-9.36	111.45	118.00
25	BB	830	G	C4-C5-N7	-9.36	107.06	110.80
25	BB	1010	A	C4-C5-C6	-9.36	112.32	117.00
25	BB	1306	C	N3-C2-O2	-9.36	115.35	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1652	A	O4'-C1'-N9	-9.36	100.71	108.20
25	BB	2403	C	C6-N1-C2	-9.36	116.56	120.30
3	A1	239	U	P-O3'-C3'	9.36	130.93	119.70
3	A1	525	C	N3-C4-N4	-9.36	111.45	118.00
3	A1	857	C	N3-C4-C5	9.36	125.64	121.90
24	BA	47	C	N3-C4-C5	9.36	125.64	121.90
25	BB	1919	A	C8-N9-C4	-9.36	102.06	105.80
25	BB	611	C	C6-N1-C2	-9.36	116.56	120.30
25	BB	798	G	C5-C6-N1	9.36	116.18	111.50
25	BB	1302	A	N1-C6-N6	-9.36	112.98	118.60
25	BB	1475	G	P-O3'-C3'	9.36	130.93	119.70
25	BB	2461	A	C3'-C2'-C1'	9.36	108.99	101.50
1	AA	25	C	C6-N1-C2	-9.36	116.56	120.30
1	AE	30	G	C5-N7-C8	-9.36	99.62	104.30
3	A1	653	U	C5-C6-N1	-9.36	118.02	122.70
25	BB	907	G	N1-C6-O6	-9.36	114.29	119.90
3	A1	716	A	C5-N7-C8	-9.36	99.22	103.90
3	A1	1299	A	C1'-O4'-C4'	-9.36	102.42	109.90
3	A1	1483	A	OP1-P-OP2	-9.36	105.57	119.60
25	BB	199	A	N9-C4-C5	-9.36	102.06	105.80
25	BB	2211	A	C2-N3-C4	9.36	115.28	110.60
3	A1	1185	G	C8-N9-C4	-9.35	102.66	106.40
3	A1	558	G	N3-C4-C5	9.35	133.28	128.60
3	A1	723	U	N1-C2-O2	9.35	129.35	122.80
25	BB	165	A	C5-C6-N1	9.35	122.38	117.70
25	BB	645	C	C1'-O4'-C4'	-9.35	102.42	109.90
25	BB	2537	U	N3-C2-O2	-9.35	115.65	122.20
3	A1	897	C	N1-C2-N3	9.35	125.75	119.20
3	A1	1029	U	C5-C6-N1	-9.35	118.03	122.70
25	BB	132	G	C5-C6-N1	9.35	116.17	111.50
25	BB	26	G	C1'-O4'-C4'	-9.35	102.42	109.90
25	BB	462	C	C5'-C4'-O4'	9.35	120.32	109.10
25	BB	941	A	C4-C5-C6	-9.35	112.33	117.00
25	BB	1135	C	N3-C4-N4	-9.35	111.46	118.00
25	BB	2023	C	N1-C2-N3	9.35	125.74	119.20
1	AP	36	A	N1-C6-N6	-9.35	112.99	118.60
3	A1	60	A	C5-C6-N1	9.35	122.37	117.70
25	BB	686	U	N1-C2-N3	9.35	120.51	114.90
25	BB	2625	G	N3-C2-N2	-9.35	113.36	119.90
3	A1	312	C	N3-C2-O2	-9.35	115.36	121.90
3	A1	730	G	C8-N9-C4	-9.35	102.66	106.40
25	BB	404	A	C5-N7-C8	-9.35	99.23	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1218	G	C6-C5-N7	9.35	136.01	130.40
25	BB	2547	A	C5-C6-N1	9.35	122.37	117.70
1	AP	20	G	C6-C5-N7	9.34	136.01	130.40
1	AP	41	U	C6-N1-C2	-9.34	115.39	121.00
25	BB	638	G	N3-C4-C5	-9.34	123.93	128.60
3	A1	1204	A	O4'-C1'-N9	9.34	115.67	108.20
25	BB	546	U	C1'-O4'-C4'	-9.34	102.43	109.90
25	BB	739	A	C4-C5-C6	-9.34	112.33	117.00
3	A1	246	A	O4'-C1'-N9	9.34	115.67	108.20
24	BA	102	G	N1-C2-N3	9.34	129.50	123.90
25	BB	1006	C	C2-N3-C4	-9.34	115.23	119.90
25	BB	1416	G	C6-N1-C2	-9.34	119.50	125.10
25	BB	1763	G	C5-C6-N1	9.34	116.17	111.50
25	BB	1707	G	O4'-C4'-C3'	9.34	113.57	106.10
25	BB	2582	G	C6-N1-C2	-9.34	119.50	125.10
3	A1	595	A	C5'-C4'-C3'	-9.34	101.06	116.00
3	A1	630	A	C4-C5-C6	-9.34	112.33	117.00
20	AU	118	ARG	NE-CZ-NH2	9.34	124.97	120.30
25	BB	526	A	C4-C5-N7	9.34	115.37	110.70
25	BB	646	U	C3'-C2'-C1'	9.34	108.97	101.50
25	BB	876	C	N1-C2-O2	9.34	124.50	118.90
25	BB	2303	G	C4-C5-N7	-9.34	107.06	110.80
25	BB	2386	A	C4-C5-C6	-9.34	112.33	117.00
25	BB	2760	C	C5-C4-N4	-9.34	113.66	120.20
3	A1	633	G	C2-N3-C4	-9.34	107.23	111.90
25	BB	381	G	C2-N3-C4	9.34	116.57	111.90
25	BB	1730	C	N1-C2-O2	9.34	124.50	118.90
25	BB	1902	C	N3-C4-N4	-9.34	111.47	118.00
1	AA	41	U	C4-C5-C6	-9.33	114.10	119.70
1	AE	13	C	C2-N3-C4	-9.33	115.23	119.90
3	A1	811	C	N3-C2-O2	-9.33	115.37	121.90
3	A1	1269	A	C4-C5-C6	-9.33	112.33	117.00
3	A1	1525	G	C5-C6-N1	9.33	116.17	111.50
25	BB	1066	U	N1-C2-O2	9.33	129.33	122.80
25	BB	1784	A	N1-C6-N6	-9.33	113.00	118.60
25	BB	526	A	C5-N7-C8	-9.33	99.23	103.90
25	BB	1439	A	C4-C5-C6	-9.33	112.33	117.00
25	BB	1581	G	O4'-C1'-N9	9.33	115.67	108.20
25	BB	2000	C	N3-C4-N4	-9.33	111.47	118.00
25	BB	2875	C	O4'-C1'-N1	9.33	115.67	108.20
47	BX	25	VAL	CA-CB-CG2	9.33	124.90	110.90
2	AM	8	U	O4'-C1'-N1	9.33	115.67	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	143	A	C4-C5-C6	-9.33	112.33	117.00
3	A1	692	U	C5-C6-N1	-9.33	118.03	122.70
3	A1	935	A	C4-C5-C6	-9.33	112.33	117.00
25	BB	13	A	C8-N9-C4	9.33	109.53	105.80
25	BB	1343	G	N1-C2-N3	9.33	129.50	123.90
25	BB	1568	G	N3-C4-C5	-9.33	123.94	128.60
25	BB	2594	C	C5-C6-N1	-9.33	116.33	121.00
3	A1	715	A	N9-C1'-C2'	9.33	126.13	114.00
3	A1	890	G	C5-N7-C8	-9.33	99.64	104.30
3	A1	1110	A	C4-C5-C6	-9.33	112.34	117.00
25	BB	436	C	N3-C2-O2	-9.33	115.37	121.90
25	BB	1695	G	C5-N7-C8	-9.33	99.64	104.30
25	BB	1737	G	C4-C5-N7	-9.33	107.07	110.80
25	BB	478	A	C5-C6-N6	9.33	131.16	123.70
25	BB	1758	U	N3-C2-O2	-9.33	115.67	122.20
25	BB	2806	C	N3-C4-C5	9.33	125.63	121.90
25	BB	2507	C	N3-C4-C5	9.33	125.63	121.90
3	A1	308	C	N3-C4-C5	9.32	125.63	121.90
3	A1	1270	G	N9-C1'-C2'	-9.32	101.74	112.00
24	BA	54	G	C5-N7-C8	9.32	108.96	104.30
25	BB	539	G	O4'-C1'-N9	9.32	115.66	108.20
1	AA	20	G	N3-C2-N2	-9.32	113.38	119.90
3	A1	666	G	N9-C4-C5	-9.32	101.67	105.40
3	A1	881	G	N7-C8-N9	9.32	117.76	113.10
3	A1	1254	A	C6-C5-N7	9.32	138.82	132.30
25	BB	773	U	O4'-C1'-C2'	-9.32	96.48	105.80
3	A1	902	G	N1-C6-O6	-9.32	114.31	119.90
25	BB	1346	G	C4-C5-C6	-9.32	113.21	118.80
25	BB	2722	G	N3-C4-C5	-9.32	123.94	128.60
25	BB	2789	C	C2-N3-C4	-9.32	115.24	119.90
25	BB	29	U	N3-C2-O2	-9.32	115.68	122.20
25	BB	30	G	O4'-C1'-N9	9.32	115.66	108.20
25	BB	49	A	C5-C6-N1	9.32	122.36	117.70
25	BB	145	C	C5-C4-N4	9.32	126.72	120.20
25	BB	390	U	C4-C5-C6	9.32	125.29	119.70
25	BB	691	C	C5-C4-N4	9.32	126.72	120.20
25	BB	821	A	C4-C5-C6	-9.32	112.34	117.00
25	BB	2213	U	C6-N1-C2	9.32	126.59	121.00
3	A1	1376	U	N1-C2-N3	9.32	120.49	114.90
25	BB	673	C	N1-C2-N3	9.32	125.72	119.20
3	A1	60	A	C5-N7-C8	-9.32	99.24	103.90
3	A1	286	C	N3-C2-O2	-9.32	115.38	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	466	A	C5-C6-N1	9.32	122.36	117.70
25	BB	967	U	N3-C2-O2	-9.32	115.68	122.20
51	B2	111	ARG	NE-CZ-NH2	9.32	124.96	120.30
25	BB	395	U	C4-C5-C6	-9.31	114.11	119.70
25	BB	918	A	C6-C5-N7	9.31	138.82	132.30
25	BB	1043	C	C2-N3-C4	-9.31	115.24	119.90
25	BB	2294	G	N3-C2-N2	-9.31	113.38	119.90
3	A1	445	G	N1-C6-O6	-9.31	114.31	119.90
3	A1	547	A	O4'-C4'-C3'	9.31	113.55	106.10
3	A1	1080	A	C6-C5-N7	9.31	138.82	132.30
25	BB	1200	C	C2-N3-C4	-9.31	115.24	119.90
25	BB	2298	A	C5-C6-N6	9.31	131.15	123.70
3	A1	1094	G	C2-N3-C4	9.31	116.56	111.90
25	BB	702	U	C5'-C4'-O4'	9.31	120.27	109.10
3	A1	1172	C	N3-C4-N4	-9.31	111.48	118.00
25	BB	930	G	C5-C6-N1	9.31	116.16	111.50
25	BB	1171	G	N3-C4-N9	9.31	131.59	126.00
3	A1	277	C	N3-C2-O2	-9.31	115.38	121.90
3	A1	771	G	C3'-C2'-C1'	9.31	108.95	101.50
3	A1	1452	C	C6-N1-C2	9.31	124.02	120.30
25	BB	85	G	C2-N3-C4	9.31	116.56	111.90
3	A1	325	A	N1-C6-N6	-9.31	113.02	118.60
3	A1	540	G	N1-C6-O6	-9.31	114.32	119.90
3	A1	737	C	C4-C5-C6	-9.31	112.75	117.40
3	A1	1170	A	C4-C5-N7	-9.31	106.05	110.70
25	BB	2448	A	C4-C5-C6	-9.31	112.35	117.00
25	BB	308	G	C8-N9-C4	-9.31	102.68	106.40
25	BB	397	U	O4'-C1'-N1	9.31	115.65	108.20
25	BB	858	G	O4'-C1'-N9	-9.31	100.75	108.20
25	BB	859	G	O4'-C1'-N9	9.31	115.64	108.20
25	BB	1501	G	C5-N7-C8	-9.31	99.65	104.30
25	BB	2751	G	C6-C5-N7	9.31	135.99	130.40
25	BB	2788	C	N3-C2-O2	-9.31	115.39	121.90
40	BQ	26	PHE	CB-CG-CD2	9.31	127.31	120.80
3	A1	412	A	C5-C6-N1	9.30	122.35	117.70
3	A1	865	A	C2-N3-C4	9.30	115.25	110.60
3	A1	1232	U	N1-C2-N3	9.30	120.48	114.90
25	BB	635	C	C2-N3-C4	-9.30	115.25	119.90
25	BB	1379	U	N3-C4-O4	9.31	125.91	119.40
25	BB	1793	C	N1-C2-O2	9.30	124.48	118.90
31	BH	81	ARG	NE-CZ-NH2	-9.31	115.65	120.30
3	A1	1446	A	C5-C6-N1	9.30	122.35	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1249	U	N3-C2-O2	-9.30	115.69	122.20
25	BB	1917	U	C6-N1-C2	-9.30	115.42	121.00
25	BB	1892	C	N1-C2-O2	9.30	124.48	118.90
25	BB	2675	A	C5-N7-C8	-9.30	99.25	103.90
52	B3	152	ARG	NE-CZ-NH2	9.30	124.95	120.30
3	A1	359	G	N3-C2-N2	-9.30	113.39	119.90
17	AR	28	ASP	CB-CG-OD1	-9.30	109.93	118.30
3	A1	615	G	N9-C4-C5	-9.30	101.68	105.40
3	A1	649	A	N1-C6-N6	-9.30	113.02	118.60
3	A1	1324	A	C6-N1-C2	-9.30	113.02	118.60
25	BB	229	C	C2-N3-C4	-9.30	115.25	119.90
25	BB	427	U	C5-C6-N1	-9.30	118.05	122.70
25	BB	636	G	C2-N3-C4	9.30	116.55	111.90
25	BB	2347	C	N3-C4-C5	9.30	125.62	121.90
3	A1	372	C	N1-C2-O2	9.29	124.48	118.90
3	A1	1055	A	C4'-C3'-C2'	-9.29	93.31	102.60
25	BB	940	G	N7-C8-N9	9.29	117.75	113.10
25	BB	1251	C	O4'-C4'-C3'	9.30	113.54	106.10
25	BB	1304	A	C4-C5-C6	-9.29	112.35	117.00
25	BB	1387	A	C3'-C2'-C1'	9.29	108.94	101.50
25	BB	1723	G	C2-N3-C4	9.29	116.55	111.90
25	BB	2156	G	N1-C6-O6	-9.29	114.32	119.90
25	BB	2333	A	O4'-C1'-N9	9.29	115.64	108.20
1	AE	58	A	N1-C6-N6	-9.29	113.03	118.60
3	A1	972	C	N1-C2-O2	9.29	124.47	118.90
10	AI	21	VAL	CA-CB-CG1	9.29	124.84	110.90
25	BB	424	G	N1-C2-N2	-9.29	107.84	116.20
25	BB	1711	A	C6-C5-N7	9.29	138.81	132.30
25	BB	2287	A	O4'-C1'-N9	9.29	115.63	108.20
25	BB	919	U	N1-C2-O2	9.29	129.30	122.80
25	BB	1184	U	O4'-C4'-C3'	9.29	113.53	106.10
25	BB	1807	G	C5-N7-C8	-9.29	99.65	104.30
25	BB	2704	C	N3-C4-C5	9.29	125.62	121.90
25	BB	2764	A	C4-C5-C6	-9.29	112.35	117.00
44	BU	27	ARG	NH1-CZ-NH2	-9.29	109.18	119.40
2	AM	11	U	O4'-C1'-N1	9.29	115.63	108.20
3	A1	362	G	N1-C6-O6	-9.29	114.33	119.90
3	A1	469	C	N3-C4-N4	-9.29	111.50	118.00
3	A1	1500	A	C5-C6-N6	9.29	131.13	123.70
10	AI	28	ARG	NH1-CZ-NH2	-9.29	109.18	119.40
25	BB	1772	A	O4'-C1'-N9	9.29	115.63	108.20
25	BB	1888	G	C5-C6-O6	9.29	134.17	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1926	U	C2-N3-C4	-9.29	121.43	127.00
3	A1	606	G	C8-N9-C4	-9.29	102.69	106.40
3	A1	1135	U	O4'-C4'-C3'	9.29	113.53	106.10
25	BB	74	A	N7-C8-N9	-9.29	109.16	113.80
25	BB	1881	C	N3-C2-O2	-9.29	115.40	121.90
25	BB	2224	G	N1-C6-O6	-9.29	114.33	119.90
25	BB	2885	G	N9-C4-C5	9.29	109.11	105.40
3	A1	35	G	N3-C2-N2	-9.29	113.40	119.90
3	A1	199	A	C4-C5-C6	-9.29	112.36	117.00
25	BB	2231	U	N1-C2-N3	9.29	120.47	114.90
1	AE	41	U	C5-C6-N1	-9.28	118.06	122.70
3	A1	380	G	C8-N9-C4	-9.28	102.69	106.40
3	A1	793	U	N3-C2-O2	-9.29	115.70	122.20
25	BB	1106	G	C4'-C3'-C2'	-9.29	93.31	102.60
25	BB	2233	U	C6-N1-C2	-9.29	115.43	121.00
3	A1	948	C	N3-C2-O2	-9.28	115.40	121.90
48	BY	128	ARG	NE-CZ-NH2	9.28	124.94	120.30
3	A1	39	G	C8-N9-C4	-9.28	102.69	106.40
3	A1	194	C	N3-C2-O2	-9.28	115.40	121.90
3	A1	775	G	N1-C6-O6	-9.28	114.33	119.90
25	BB	759	G	N1-C6-O6	-9.28	114.33	119.90
1	AE	39	U	C4-C5-C6	9.28	125.27	119.70
3	A1	541	G	N3-C2-N2	9.28	126.40	119.90
3	A1	676	A	C8-N9-C4	-9.28	102.09	105.80
3	A1	928	G	C2-N3-C4	9.28	116.54	111.90
3	A1	1236	A	O4'-C1'-N9	9.28	115.63	108.20
24	BA	83	G	N1-C2-N3	9.28	129.47	123.90
25	BB	146	A	C2-N3-C4	9.28	115.24	110.60
25	BB	213	A	C5-C6-N1	9.28	122.34	117.70
25	BB	298	G	C4-C5-C6	-9.28	113.23	118.80
25	BB	951	C	N1-C2-O2	9.28	124.47	118.90
25	BB	421	C	N3-C2-O2	-9.28	115.40	121.90
25	BB	1047	G	C6-C5-N7	9.28	135.97	130.40
25	BB	1630	A	N1-C6-N6	-9.28	113.03	118.60
25	BB	2021	C	C2-N3-C4	-9.28	115.26	119.90
25	BB	1694	C	C2-N3-C4	-9.28	115.26	119.90
25	BB	1859	U	C5-C4-O4	9.28	131.47	125.90
25	BB	2535	G	O4'-C4'-C3'	-9.28	94.72	104.00
3	A1	111	G	O4'-C1'-N9	-9.28	100.78	108.20
3	A1	979	C	N3-C4-N4	-9.28	111.50	118.00
22	AW	105	ARG	NE-CZ-NH1	9.28	124.94	120.30
25	BB	1217	U	O4'-C4'-C3'	9.28	113.52	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2421	G	N1-C2-N2	-9.28	107.85	116.20
23	AX	22	THR	CA-CB-CG2	9.28	125.39	112.40
25	BB	637	A	N9-C4-C5	-9.28	102.09	105.80
25	BB	2840	C	N1-C2-O2	9.28	124.47	118.90
44	BU	5	ARG	CD-NE-CZ	9.28	136.59	123.60
1	AA	58	A	C4-C5-N7	-9.28	106.06	110.70
54	B5	41	PHE	CB-CG-CD2	-9.28	114.31	120.80
3	A1	32	A	C5-C6-N1	9.28	122.34	117.70
3	A1	509	A	C6-C5-N7	9.28	138.79	132.30
25	BB	2045	C	N3-C2-O2	-9.28	115.41	121.90
25	BB	2376	A	C6-N1-C2	-9.28	113.03	118.60
1	AA	21	A	N7-C8-N9	9.27	118.44	113.80
3	A1	327	A	N1-C2-N3	-9.27	124.66	129.30
25	BB	213	A	N1-C2-N3	-9.27	124.66	129.30
25	BB	2084	C	N3-C2-O2	-9.27	115.41	121.90
25	BB	98	G	N1-C2-N3	9.27	129.46	123.90
25	BB	2554	U	O4'-C1'-N1	9.27	115.62	108.20
3	A1	212	G	C8-N9-C4	9.27	110.11	106.40
25	BB	267	C	O4'-C1'-N1	9.27	115.61	108.20
25	BB	1421	G	C2-N3-C4	9.27	116.53	111.90
25	BB	1422	G	N3-C4-C5	-9.27	123.97	128.60
3	A1	139	A	N9-C4-C5	9.27	109.51	105.80
3	A1	581	G	N7-C8-N9	9.27	117.73	113.10
3	A1	1408	A	C8-N9-C4	-9.27	102.09	105.80
25	BB	2746	U	O4'-C1'-N1	-9.27	100.79	108.20
3	A1	105	G	N3-C4-C5	-9.27	123.97	128.60
3	A1	368	U	C5-C4-O4	-9.27	120.34	125.90
3	A1	376	G	C2-N3-C4	9.27	116.53	111.90
3	A1	474	G	N3-C4-C5	-9.27	123.97	128.60
3	A1	1293	C	C2-N3-C4	-9.27	115.27	119.90
24	BA	67	G	C5-N7-C8	-9.27	99.67	104.30
25	BB	444	C	N1-C2-O2	9.27	124.46	118.90
37	BN	211	ARG	NE-CZ-NH1	9.27	124.93	120.30
25	BB	514	A	C6-C5-N7	9.27	138.78	132.30
25	BB	1150	C	C3'-C2'-C1'	9.27	108.91	101.50
25	BB	2254	C	N3-C2-O2	-9.27	115.42	121.90
25	BB	2506	U	C5-C4-O4	9.27	131.46	125.90
1	AA	70	C	N3-C2-O2	-9.26	115.42	121.90
3	A1	327	A	C2-N3-C4	9.26	115.23	110.60
3	A1	329	A	C6-C5-N7	9.26	138.78	132.30
3	A1	420	U	C1'-O4'-C4'	-9.26	102.49	109.90
3	A1	467	U	N3-C2-O2	-9.26	115.72	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	706	A	C6-C5-N7	9.26	138.78	132.30
3	A1	1098	C	C2-N3-C4	-9.26	115.27	119.90
10	AI	23	ASP	CB-CG-OD2	9.26	126.64	118.30
25	BB	501	A	N1-C2-N3	-9.26	124.67	129.30
25	BB	1719	G	N1-C6-O6	-9.26	114.34	119.90
35	BL	8	ARG	NH1-CZ-NH2	-9.26	109.21	119.40
25	BB	2412	A	N7-C8-N9	9.26	118.43	113.80
37	BN	12	ARG	NE-CZ-NH2	-9.26	115.67	120.30
3	A1	788	U	O4'-C1'-N1	9.26	115.61	108.20
25	BB	52	A	C2-N3-C4	9.26	115.23	110.60
25	BB	66	C	C5-C6-N1	-9.26	116.37	121.00
25	BB	1744	A	C8-N9-C4	-9.26	102.10	105.80
25	BB	2791	G	N1-C2-N3	9.26	129.46	123.90
1	AP	70	C	N3-C4-N4	-9.26	111.52	118.00
1	AE	40	C	C5-C4-N4	-9.26	113.72	120.20
3	A1	259	G	N3-C4-N9	9.26	131.55	126.00
3	A1	899	C	C6-N1-C2	-9.26	116.60	120.30
3	A1	1275	A	C6-N1-C2	-9.26	113.05	118.60
25	BB	1595	C	N3-C2-O2	-9.26	115.42	121.90
3	A1	1035	A	C2-N3-C4	9.26	115.23	110.60
25	BB	234	U	C5-C4-O4	-9.26	120.35	125.90
25	BB	351	C	N3-C2-O2	-9.26	115.42	121.90
25	BB	667	U	C5-C4-O4	-9.26	120.35	125.90
25	BB	922	C	C2-N3-C4	-9.26	115.27	119.90
3	A1	665	A	N9-C4-C5	9.25	109.50	105.80
25	BB	493	G	C6-C5-N7	9.25	135.95	130.40
25	BB	745	G	OP1-P-OP2	-9.25	105.72	119.60
25	BB	1543	G	N3-C4-N9	9.25	131.55	126.00
25	BB	1885	A	N1-C2-N3	-9.25	124.67	129.30
25	BB	2709	G	N1-C6-O6	-9.25	114.35	119.90
1	AA	64	A	C2-N3-C4	-9.25	105.97	110.60
3	A1	289	G	N3-C2-N2	-9.25	113.42	119.90
3	A1	1339	A	C6-N1-C2	-9.25	113.05	118.60
25	BB	326	G	C3'-C2'-C1'	9.25	108.90	101.50
3	A1	226	G	N1-C6-O6	-9.25	114.35	119.90
3	A1	755	G	O4'-C4'-C3'	-9.25	94.75	104.00
3	A1	1230	C	N3-C2-O2	-9.25	115.43	121.90
25	BB	1934	C	N3-C4-N4	-9.25	111.53	118.00
3	A1	1278	G	C6-N1-C2	-9.25	119.55	125.10
24	BA	67	G	C6-N1-C2	-9.25	119.55	125.10
25	BB	1152	C	C5'-C4'-O4'	9.25	120.20	109.10
25	BB	1172	C	N3-C2-O2	-9.25	115.43	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1734	G	O4'-C1'-N9	9.25	115.60	108.20
25	BB	2346	A	C4-C5-C6	-9.25	112.38	117.00
27	BD	121	GLU	OE1-CD-OE2	-9.25	112.20	123.30
3	A1	695	A	C4-C5-C6	-9.24	112.38	117.00
3	A1	864	A	C4-C5-C6	-9.24	112.38	117.00
25	BB	1091	G	N3-C2-N2	-9.24	113.43	119.90
25	BB	1630	A	C6-C5-N7	9.24	138.77	132.30
1	AA	16	U	C6-N1-C2	-9.24	115.45	121.00
3	A1	650	G	C1'-O4'-C4'	-9.24	102.51	109.90
3	A1	962	C	C2-N3-C4	-9.24	115.28	119.90
3	A1	1520	C	C4-C5-C6	9.24	122.02	117.40
24	BA	75	G	N9-C4-C5	9.24	109.10	105.40
25	BB	401	A	C4-C5-N7	-9.24	106.08	110.70
25	BB	548	G	N9-C4-C5	9.24	109.10	105.40
25	BB	1609	A	N1-C6-N6	-9.24	113.06	118.60
25	BB	2070	A	C5-C6-N6	9.24	131.09	123.70
25	BB	2554	U	O3'-P-O5'	9.24	121.56	104.00
1	AP	35	A	C4-C5-C6	-9.24	112.38	117.00
3	A1	1504	G	N3-C2-N2	-9.24	113.43	119.90
25	BB	558	U	N3-C2-O2	-9.24	115.73	122.20
25	BB	1689	A	N7-C8-N9	9.24	118.42	113.80
25	BB	2178	C	C5-C4-N4	-9.24	113.73	120.20
3	A1	108	G	N7-C8-N9	9.24	117.72	113.10
3	A1	425	G	C4-C5-C6	-9.24	113.26	118.80
3	A1	625	U	C5-C6-N1	-9.24	118.08	122.70
3	A1	1337	G	N7-C8-N9	9.24	117.72	113.10
25	BB	1177	G	N1-C2-N2	9.24	124.52	116.20
25	BB	2087	G	C1'-O4'-C4'	-9.24	102.51	109.90
25	BB	2628	C	N1-C2-O2	9.24	124.44	118.90
1	AA	31	A	N3-C4-N9	-9.24	120.01	127.40
3	A1	324	G	N3-C4-C5	-9.24	123.98	128.60
3	A1	556	C	C4-C5-C6	9.24	122.02	117.40
3	A1	609	A	O4'-C1'-N9	9.24	115.59	108.20
3	A1	1483	A	C4-C5-C6	-9.24	112.38	117.00
8	AG	68	ARG	NE-CZ-NH2	9.24	124.92	120.30
25	BB	2160	C	N3-C2-O2	-9.24	115.43	121.90
25	BB	1663	G	C5-C6-O6	9.24	134.14	128.60
25	BB	1919	A	C5-C6-N1	9.24	122.32	117.70
25	BB	2357	G	C6-C5-N7	9.24	135.94	130.40
25	BB	2895	G	C8-N9-C4	-9.24	102.70	106.40
1	AP	9	A	C5-C6-N6	9.23	131.09	123.70
1	AE	57	G	O4'-C1'-N9	9.23	115.59	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1081	A	N1-C6-N6	-9.23	113.06	118.60
3	A1	1118	U	N3-C2-O2	-9.23	115.74	122.20
3	A1	1229	A	C4-C5-C6	-9.23	112.38	117.00
25	BB	174	U	C5-C6-N1	-9.23	118.08	122.70
25	BB	2793	C	C2-N3-C4	-9.23	115.28	119.90
25	BB	227	A	C8-N9-C4	-9.23	102.11	105.80
25	BB	612	G	C5-N7-C8	-9.23	99.68	104.30
25	BB	1210	G	C3'-C2'-C1'	9.23	108.89	101.50
25	BB	1340	U	C4-C5-C6	9.23	125.24	119.70
25	BB	1814	G	C4-C5-N7	-9.23	107.11	110.80
25	BB	1961	C	N3-C4-C5	9.23	125.59	121.90
25	BB	2036	C	C5'-C4'-O4'	9.23	120.18	109.10
25	BB	2165	C	C5-C6-N1	9.23	125.62	121.00
25	BB	2292	U	O4'-C4'-C3'	-9.23	94.77	104.00
3	A1	112	G	C4-C5-N7	-9.23	107.11	110.80
3	A1	891	U	C1'-O4'-C4'	-9.23	102.51	109.90
3	A1	1022	A	N1-C6-N6	-9.23	113.06	118.60
3	A1	8	A	C5-C6-N1	9.23	122.31	117.70
3	A1	335	C	N3-C4-C5	9.23	125.59	121.90
3	A1	991	U	C5-C6-N1	-9.23	118.08	122.70
24	BA	36	C	N3-C4-N4	-9.23	111.54	118.00
25	BB	98	G	N9-C4-C5	-9.23	101.71	105.40
25	BB	625	G	C5-C6-O6	9.23	134.14	128.60
25	BB	807	U	C5-C6-N1	-9.23	118.08	122.70
25	BB	947	A	C6-C5-N7	9.23	138.76	132.30
25	BB	1171	G	C6-N1-C2	-9.23	119.56	125.10
25	BB	1332	G	N9-C4-C5	-9.23	101.71	105.40
25	BB	1343	G	N7-C8-N9	9.23	117.72	113.10
25	BB	1512	C	N3-C2-O2	-9.23	115.44	121.90
1	AP	13	C	C4-C5-C6	-9.23	112.79	117.40
3	A1	1359	C	O4'-C1'-N1	9.23	115.58	108.20
25	BB	1006	C	C6-N1-C2	-9.23	116.61	120.30
25	BB	1205	A	N1-C6-N6	-9.23	113.06	118.60
25	BB	1500	G	N3-C4-C5	-9.23	123.99	128.60
25	BB	1515	A	N9-C4-C5	9.23	109.49	105.80
25	BB	2364	C	N3-C4-C5	9.23	125.59	121.90
25	BB	2516	A	C8-N9-C4	9.23	109.49	105.80
25	BB	2583	G	N1-C6-O6	-9.23	114.36	119.90
25	BB	2000	C	N3-C4-C5	9.23	125.59	121.90
25	BB	2503	A	C8-N9-C4	-9.23	102.11	105.80
3	A1	97	G	N1-C6-O6	-9.22	114.36	119.90
3	A1	795	C	C5-C4-N4	9.22	126.66	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1181	G	C3'-C2'-C1'	9.22	108.88	101.50
25	BB	539	G	C5'-C4'-O4'	9.22	120.17	109.10
25	BB	655	A	C4-C5-C6	-9.22	112.39	117.00
3	A1	1394	A	N1-C2-N3	-9.22	124.69	129.30
25	BB	23	G	O4'-C1'-N9	9.22	115.58	108.20
25	BB	845	A	C4-C5-N7	9.22	115.31	110.70
25	BB	1351	C	N3-C2-O2	-9.22	115.44	121.90
25	BB	2072	C	N3-C2-O2	-9.22	115.44	121.90
25	BB	2238	G	N3-C4-C5	-9.22	123.99	128.60
25	BB	2469	A	C6-C5-N7	9.22	138.76	132.30
1	AP	43	G	N1-C2-N2	-9.22	107.90	116.20
3	A1	726	C	N3-C2-O2	-9.22	115.44	121.90
3	A1	997	U	C5'-C4'-O4'	9.22	120.17	109.10
1	AP	56	C	C5-C6-N1	-9.22	116.39	121.00
1	AP	64	A	N1-C6-N6	-9.22	113.07	118.60
3	A1	1250	A	N3-C4-C5	9.22	133.25	126.80
22	AW	10	ARG	NE-CZ-NH1	9.22	124.91	120.30
25	BB	57	C	N3-C4-C5	9.22	125.59	121.90
25	BB	460	A	C8-N9-C4	-9.22	102.11	105.80
25	BB	628	G	C5-N7-C8	-9.22	99.69	104.30
25	BB	1371	G	N3-C2-N2	-9.22	113.44	119.90
25	BB	2332	C	C3'-C2'-C1'	9.22	108.88	101.50
25	BB	2733	A	C4-C5-C6	-9.22	112.39	117.00
25	BB	2750	A	N7-C8-N9	9.22	118.41	113.80
55	B6	37	ARG	NH1-CZ-NH2	-9.22	109.26	119.40
3	A1	155	A	N1-C2-N3	-9.22	124.69	129.30
3	A1	328	C	N3-C4-N4	-9.22	111.55	118.00
22	AW	32	ARG	NE-CZ-NH2	-9.22	115.69	120.30
25	BB	1694	C	N3-C2-O2	-9.22	115.45	121.90
25	BB	1482	G	C5-C6-N1	9.22	116.11	111.50
25	BB	2447	G	C8-N9-C4	-9.22	102.71	106.40
25	BB	2658	C	C5-C6-N1	-9.22	116.39	121.00
3	A1	564	C	C6-N1-C2	-9.22	116.61	120.30
3	A1	1278	G	N1-C2-N3	9.21	129.43	123.90
25	BB	647	G	C6-N1-C2	-9.21	119.57	125.10
25	BB	1137	G	C5-C6-N1	9.21	116.11	111.50
25	BB	1285	A	C2-N3-C4	9.22	115.21	110.60
25	BB	2880	C	N3-C4-N4	-9.22	111.55	118.00
25	BB	2440	C	C2-N3-C4	-9.21	115.29	119.90
3	A1	1529	G	N3-C2-N2	9.21	126.35	119.90
25	BB	110	G	N3-C2-N2	-9.21	113.45	119.90
1	AE	3	G	O4'-C1'-N9	9.21	115.57	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	342	A	C8-N9-C4	-9.21	102.11	105.80
25	BB	473	G	N3-C2-N2	-9.21	113.45	119.90
25	BB	641	U	N3-C4-O4	9.21	125.85	119.40
25	BB	957	C	N1-C2-O2	9.21	124.43	118.90
25	BB	1292	G	C8-N9-C4	-9.21	102.72	106.40
28	BE	60	ARG	NH1-CZ-NH2	-9.21	109.27	119.40
3	A1	264	C	C4-C5-C6	9.21	122.00	117.40
3	A1	933	G	N3-C2-N2	-9.21	113.45	119.90
25	BB	96	C	O4'-C1'-N1	9.21	115.57	108.20
25	BB	770	G	C4-C5-C6	-9.21	113.27	118.80
25	BB	803	U	C2-N3-C4	-9.21	121.47	127.00
25	BB	1432	G	C5-C6-O6	-9.21	123.07	128.60
25	BB	1517	G	C6-N1-C2	-9.21	119.57	125.10
25	BB	2436	G	C8-N9-C4	9.21	110.08	106.40
25	BB	2572	A	C4-C5-C6	-9.21	112.39	117.00
25	BB	2621	G	N3-C4-N9	9.21	131.53	126.00
25	BB	2887	A	C5-C6-N6	9.21	131.07	123.70
3	A1	382	A	C5-N7-C8	-9.21	99.30	103.90
3	A1	384	G	C3'-C2'-C1'	9.21	108.87	101.50
3	A1	456	A	C6-C5-N7	9.21	138.75	132.30
5	AC	52	ARG	NH1-CZ-NH2	-9.21	109.27	119.40
45	BV	19	ARG	NE-CZ-NH2	9.21	124.90	120.30
25	BB	31	C	C5'-C4'-O4'	9.21	120.15	109.10
25	BB	152	A	C2-N3-C4	9.21	115.20	110.60
25	BB	166	U	C5-C6-N1	-9.21	118.10	122.70
25	BB	2212	A	N1-C6-N6	-9.21	113.08	118.60
2	AM	5	U	O4'-C1'-N1	9.21	115.56	108.20
3	A1	800	G	N3-C4-C5	-9.21	124.00	128.60
25	BB	807	U	O4'-C1'-N1	9.21	115.56	108.20
25	BB	1799	G	C4'-C3'-C2'	-9.21	93.39	102.60
3	A1	838	G	N1-C6-O6	-9.20	114.38	119.90
3	A1	1371	G	C6-C5-N7	9.20	135.92	130.40
25	BB	286	U	C2-N3-C4	-9.21	121.48	127.00
25	BB	518	G	N7-C8-N9	9.21	117.70	113.10
25	BB	1058	U	O4'-C1'-N1	9.21	115.56	108.20
25	BB	1273	U	C1'-O4'-C4'	-9.21	102.54	109.90
55	B6	49	ASP	OD1-CG-OD2	-9.21	105.81	123.30
25	BB	2145	C	C6-N1-C2	-9.20	116.62	120.30
3	A1	865	A	C6-C5-N7	9.20	138.74	132.30
25	BB	263	G	N1-C6-O6	-9.20	114.38	119.90
25	BB	786	C	C2-N3-C4	-9.20	115.30	119.90
25	BB	687	C	N1-C2-O2	9.20	124.42	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	697	G	C4-C5-N7	9.20	114.48	110.80
25	BB	776	G	C8-N9-C4	9.20	110.08	106.40
25	BB	1179	G	N9-C4-C5	9.20	109.08	105.40
25	BB	1584	U	C2-N3-C4	-9.20	121.48	127.00
29	BF	50	ARG	NE-CZ-NH2	9.20	124.90	120.30
1	AP	30	G	C6-N1-C2	-9.20	119.58	125.10
1	AE	4	G	N3-C4-C5	-9.20	124.00	128.60
3	A1	484	G	C3'-C2'-C1'	-9.20	94.14	101.50
25	BB	896	A	C5'-C4'-O4'	9.20	120.14	109.10
25	BB	2307	G	C8-N9-C4	-9.20	102.72	106.40
3	A1	629	A	N1-C6-N6	-9.20	113.08	118.60
3	A1	972	C	N3-C2-O2	-9.20	115.46	121.90
3	A1	1250	A	N3-C4-N9	-9.20	120.04	127.40
25	BB	427	U	N3-C2-O2	-9.20	115.76	122.20
25	BB	1931	U	N1-C2-N3	9.20	120.42	114.90
25	BB	2155	U	C1'-O4'-C4'	-9.20	102.54	109.90
1	AP	29	A	N9-C4-C5	9.20	109.48	105.80
3	A1	310	G	N7-C8-N9	9.20	117.70	113.10
3	A1	1334	G	C4-C5-N7	-9.20	107.12	110.80
3	A1	1526	G	C4-C5-N7	-9.20	107.12	110.80
3	A1	1534	A	O4'-C1'-N9	-9.20	100.84	108.20
25	BB	563	A	C4-C5-C6	-9.20	112.40	117.00
37	BN	228	ASP	OD1-CG-OD2	-9.20	105.83	123.30
3	A1	588	G	N1-C6-O6	-9.19	114.38	119.90
3	A1	1073	U	N1-C1'-C2'	-9.19	101.89	112.00
16	AQ	11	PHE	CB-CG-CD1	-9.20	114.36	120.80
25	BB	521	U	N1-C2-N3	9.19	120.42	114.90
25	BB	658	U	C5-C4-O4	9.20	131.42	125.90
25	BB	1429	G	C6-N1-C2	-9.20	119.58	125.10
25	BB	1062	G	N1-C6-O6	-9.19	114.38	119.90
25	BB	1395	A	N1-C2-N3	-9.19	124.70	129.30
25	BB	2826	A	O4'-C1'-N9	-9.20	100.84	108.20
36	BM	42	GLU	OE1-CD-OE2	-9.20	112.27	123.30
1	AA	72	C	C5-C6-N1	-9.19	116.40	121.00
3	A1	27	G	C5'-C4'-C3'	-9.19	101.29	116.00
3	A1	1436	U	N3-C2-O2	-9.19	115.77	122.20
1	AA	73	A	C5-C6-N6	9.19	131.05	123.70
25	BB	818	G	N3-C4-C5	-9.19	124.00	128.60
25	BB	956	G	N9-C4-C5	9.19	109.08	105.40
25	BB	1065	U	N1-C2-N3	9.19	120.42	114.90
25	BB	1664	A	C8-N9-C4	-9.19	102.12	105.80
25	BB	1788	C	N3-C4-C5	9.19	125.58	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2588	G	N3-C4-C5	-9.19	124.00	128.60
3	A1	1105	A	C4-C5-C6	-9.19	112.41	117.00
25	BB	2190	G	C8-N9-C4	-9.19	102.72	106.40
3	A1	476	U	N3-C2-O2	-9.19	115.77	122.20
3	A1	1142	G	C5-C6-O6	9.19	134.11	128.60
25	BB	454	A	C5-C6-N6	9.19	131.05	123.70
25	BB	967	U	P-O3'-C3'	9.19	130.73	119.70
25	BB	1664	A	N1-C2-N3	9.19	133.90	129.30
25	BB	1410	G	C1'-O4'-C4'	-9.19	102.55	109.90
25	BB	1875	G	N1-C6-O6	-9.19	114.39	119.90
3	A1	822	U	C5'-C4'-O4'	9.19	120.12	109.10
25	BB	761	A	C5-C6-N1	9.19	122.29	117.70
25	BB	2880	C	C6-N1-C2	-9.19	116.62	120.30
3	A1	360	G	N9-C4-C5	9.19	109.07	105.40
3	A1	768	A	C6-N1-C2	-9.19	113.09	118.60
3	A1	883	C	C4-C5-C6	9.19	121.99	117.40
3	A1	1373	G	C4'-C3'-C2'	-9.19	93.42	102.60
25	BB	498	G	N3-C4-C5	-9.19	124.01	128.60
25	BB	1135	C	N3-C4-C5	9.19	125.57	121.90
25	BB	1192	G	N3-C4-C5	-9.19	124.01	128.60
25	BB	2672	U	C1'-O4'-C4'	-9.19	102.55	109.90
1	AA	56	C	C4-C5-C6	-9.18	112.81	117.40
3	A1	587	G	N1-C6-O6	-9.18	114.39	119.90
25	BB	264	C	N1-C2-N3	9.18	125.63	119.20
25	BB	386	G	C3'-C2'-C1'	-9.18	94.15	101.50
25	BB	2847	U	N3-C2-O2	-9.18	115.77	122.20
3	A1	765	G	C2-N3-C4	9.18	116.49	111.90
25	BB	867	C	N3-C4-C5	9.18	125.57	121.90
25	BB	1134	A	C5-C6-N1	9.18	122.29	117.70
25	BB	1477	A	N7-C8-N9	9.18	118.39	113.80
25	BB	2067	G	N9-C4-C5	9.18	109.07	105.40
25	BB	2019	A	C8-N9-C4	-9.18	102.13	105.80
3	A1	1432	G	C5-N7-C8	-9.18	99.71	104.30
25	BB	347	A	N1-C6-N6	-9.18	113.09	118.60
25	BB	586	A	C5-C6-N6	9.18	131.04	123.70
3	A1	583	A	C4-C5-C6	-9.18	112.41	117.00
3	A1	1075	U	N1-C2-O2	9.18	129.22	122.80
3	A1	1498	U	C3'-C2'-C1'	9.18	108.84	101.50
25	BB	602	A	C4'-C3'-C2'	-9.18	93.42	102.60
25	BB	2846	G	N1-C6-O6	-9.18	114.39	119.90
25	BB	2876	G	N3-C4-C5	-9.18	124.01	128.60
1	AE	11	C	C4-C5-C6	9.18	121.99	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	243	A	N1-C6-N6	-9.18	113.09	118.60
25	BB	1020	A	C8-N9-C4	9.18	109.47	105.80
18	AS	137	ARG	CD-NE-CZ	9.18	136.44	123.60
25	BB	1359	A	O4'-C4'-C3'	9.18	113.44	106.10
25	BB	2570	G	C8-N9-C4	-9.18	102.73	106.40
33	BJ	27	ARG	NE-CZ-NH2	9.18	124.89	120.30
3	A1	758	C	N3-C2-O2	-9.17	115.48	121.90
3	A1	1204	A	C6-C5-N7	9.17	138.72	132.30
25	BB	294	A	N1-C6-N6	-9.17	113.10	118.60
25	BB	694	U	C5-C4-O4	9.17	131.40	125.90
25	BB	2692	G	C1'-O4'-C4'	-9.17	102.56	109.90
25	BB	2889	C	C6-N1-C2	-9.17	116.63	120.30
1	AE	66	A	C4-C5-C6	-9.17	112.42	117.00
3	A1	18	C	N3-C4-N4	-9.17	111.58	118.00
25	BB	2874	C	O4'-C1'-N1	9.17	115.54	108.20
3	A1	109	A	C5-C6-N6	9.17	131.03	123.70
3	A1	392	C	N3-C4-C5	9.17	125.57	121.90
25	BB	103	A	C4-C5-C6	-9.17	112.42	117.00
25	BB	274	C	C5-C4-N4	9.17	126.62	120.20
25	BB	1275	A	N1-C6-N6	-9.17	113.10	118.60
25	BB	1475	G	N9-C4-C5	9.17	109.07	105.40
25	BB	1590	A	N1-C6-N6	-9.17	113.10	118.60
25	BB	2513	A	C5-C6-N1	9.17	122.28	117.70
25	BB	2642	G	N9-C4-C5	-9.17	101.73	105.40
25	BB	2883	A	C6-N1-C2	-9.17	113.10	118.60
25	BB	2702	G	C6-N1-C2	-9.17	119.60	125.10
3	A1	66	A	C8-N9-C4	-9.17	102.13	105.80
3	A1	817	C	C5-C6-N1	-9.17	116.42	121.00
25	BB	203	A	C2-N3-C4	9.17	115.18	110.60
1	AA	1	G	C5-C6-N1	9.17	116.08	111.50
1	AE	2	C	C6-N1-C2	-9.17	116.63	120.30
3	A1	1061	G	O4'-C1'-N9	9.17	115.53	108.20
3	A1	1137	C	C5-C4-N4	-9.17	113.78	120.20
24	BA	89	U	C5-C4-O4	9.17	131.40	125.90
25	BB	747	U	C2-N3-C4	-9.17	121.50	127.00
25	BB	2577	A	O4'-C1'-N9	9.17	115.53	108.20
1	AP	40	C	N3-C4-C5	9.16	125.57	121.90
3	A1	647	C	N3-C4-C5	9.16	125.56	121.90
3	A1	1431	A	O4'-C1'-N9	9.16	115.53	108.20
25	BB	1027	A	C5-C6-N1	9.16	122.28	117.70
25	BB	1455	G	N7-C8-N9	-9.16	108.52	113.10
25	BB	195	A	C6-N1-C2	-9.16	113.10	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	543	G	C6-N1-C2	-9.16	119.60	125.10
25	BB	888	C	C2-N3-C4	-9.16	115.32	119.90
25	BB	1521	G	C4-C5-C6	-9.16	113.30	118.80
25	BB	1979	U	O4'-C1'-N1	9.16	115.53	108.20
25	BB	2885	G	C4-C5-N7	-9.16	107.13	110.80
1	AE	71	G	N1-C2-N3	9.16	129.40	123.90
3	A1	948	C	C5-C6-N1	-9.16	116.42	121.00
25	BB	465	G	C6-N1-C2	-9.16	119.60	125.10
25	BB	1335	C	C5-C6-N1	-9.16	116.42	121.00
1	AP	36	A	C8-N9-C4	-9.16	102.14	105.80
1	AE	17	U	N1-C2-N3	9.16	120.39	114.90
3	A1	451	A	N7-C8-N9	-9.16	109.22	113.80
3	A1	1266	G	N1-C2-N3	9.16	129.39	123.90
25	BB	17	G	N3-C4-C5	-9.16	124.02	128.60
25	BB	199	A	C5-N7-C8	-9.16	99.32	103.90
25	BB	314	C	N3-C4-C5	9.16	125.56	121.90
25	BB	792	A	N1-C2-N3	-9.16	124.72	129.30
25	BB	1149	G	N1-C6-O6	-9.16	114.41	119.90
25	BB	1587	G	N1-C2-N3	9.16	129.40	123.90
25	BB	1855	U	N3-C2-O2	-9.16	115.79	122.20
25	BB	2325	G	C5'-C4'-O4'	9.16	120.09	109.10
25	BB	2644	G	C5-C6-N1	9.16	116.08	111.50
25	BB	339	U	C2-N3-C4	-9.16	121.51	127.00
25	BB	1656	C	N1-C2-O2	9.16	124.39	118.90
25	BB	2123	G	C4-C5-C6	-9.16	113.31	118.80
25	BB	2225	A	C6-N1-C2	-9.16	113.11	118.60
25	BB	2813	A	C4-C5-N7	9.16	115.28	110.70
1	AE	65	G	C5-N7-C8	-9.15	99.72	104.30
3	A1	105	G	N9-C4-C5	9.15	109.06	105.40
3	A1	888	G	C6-N1-C2	-9.15	119.61	125.10
3	A1	1186	G	C6-C5-N7	9.15	135.89	130.40
24	BA	110	C	C1'-O4'-C4'	-9.15	102.58	109.90
25	BB	1366	A	C3'-C2'-C1'	-9.15	94.18	101.50
25	BB	578	G	N9-C4-C5	-9.15	101.74	105.40
25	BB	617	G	C8-N9-C4	-9.15	102.74	106.40
25	BB	950	G	N9-C4-C5	9.15	109.06	105.40
25	BB	1304	A	C5-N7-C8	-9.15	99.32	103.90
3	A1	165	G	C4-C5-N7	9.15	114.46	110.80
3	A1	827	U	O4'-C1'-N1	9.15	115.52	108.20
3	A1	403	C	C3'-C2'-C1'	9.15	108.82	101.50
3	A1	422	C	C2-N3-C4	-9.15	115.33	119.90
3	A1	1011	C	N3-C4-C5	9.15	125.56	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1323	G	C2-N3-C4	9.15	116.47	111.90
3	A1	1396	A	C2-N3-C4	9.15	115.17	110.60
24	BA	66	A	C8-N9-C4	-9.15	102.14	105.80
25	BB	187	G	C4'-C3'-C2'	-9.15	93.45	102.60
25	BB	851	C	C6-N1-C2	-9.15	116.64	120.30
25	BB	926	G	C6-C5-N7	9.15	135.89	130.40
3	A1	135	C	C5-C4-N4	9.15	126.60	120.20
3	A1	1105	A	C5-N7-C8	-9.15	99.33	103.90
25	BB	1296	G	C5'-C4'-O4'	9.15	120.08	109.10
3	A1	755	G	O4'-C1'-N9	-9.15	100.88	108.20
3	A1	996	A	C5-C6-N6	9.15	131.02	123.70
25	BB	1634	A	C6-N1-C2	-9.15	113.11	118.60
25	BB	2325	G	N3-C4-C5	-9.15	124.03	128.60
1	AE	21	A	C3'-C2'-C1'	-9.14	94.18	101.50
3	A1	796	C	C5-C6-N1	-9.14	116.43	121.00
3	A1	910	C	C6-N1-C2	9.14	123.96	120.30
3	A1	1024	G	N3-C2-N2	9.14	126.30	119.90
25	BB	1204	A	C5-C6-N1	9.14	122.27	117.70
25	BB	1936	A	C4-C5-N7	9.14	115.27	110.70
25	BB	2828	G	C6-C5-N7	9.14	135.89	130.40
24	BA	69	G	N3-C2-N2	-9.14	113.50	119.90
25	BB	506	G	N1-C6-O6	-9.14	114.41	119.90
25	BB	718	A	O4'-C1'-N9	9.14	115.52	108.20
25	BB	2023	C	C1'-O4'-C4'	9.14	117.21	109.90
3	A1	620	C	C2-N3-C4	-9.14	115.33	119.90
25	BB	947	A	C2-N3-C4	9.14	115.17	110.60
3	A1	108	G	N1-C2-N3	9.14	129.38	123.90
3	A1	536	C	N3-C2-O2	-9.14	115.50	121.90
25	BB	590	A	C4-C5-N7	9.14	115.27	110.70
25	BB	1265	A	C2-N3-C4	9.14	115.17	110.60
25	BB	1593	A	C4-C5-C6	-9.14	112.43	117.00
25	BB	2443	C	N3-C2-O2	-9.14	115.50	121.90
3	A1	1267	C	N3-C2-O2	-9.14	115.50	121.90
25	BB	1107	G	C4-C5-N7	9.14	114.46	110.80
25	BB	2853	C	N3-C4-N4	-9.14	111.60	118.00
25	BB	1036	G	C5-C6-O6	9.14	134.08	128.60
25	BB	2114	A	C6-N1-C2	-9.14	113.12	118.60
25	BB	2343	U	C2-N3-C4	-9.14	121.52	127.00
3	A1	475	C	C5'-C4'-O4'	9.14	120.06	109.10
3	A1	645	G	N3-C4-C5	-9.14	124.03	128.60
1	AE	38	A	C2-N3-C4	9.13	115.17	110.60
3	A1	459	A	C4-C5-C6	-9.13	112.43	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	839	C	N3-C4-N4	-9.13	111.61	118.00
25	BB	525	U	N3-C4-O4	9.13	125.79	119.40
25	BB	528	A	O4'-C1'-N9	9.13	115.51	108.20
25	BB	905	A	N1-C6-N6	-9.13	113.12	118.60
25	BB	1350	C	C2-N3-C4	-9.13	115.33	119.90
25	BB	1795	C	O4'-C4'-C3'	-9.13	94.86	104.00
25	BB	1953	A	C4-C5-N7	9.13	115.27	110.70
25	BB	2364	C	C2-N3-C4	-9.13	115.33	119.90
25	BB	2735	G	N9-C4-C5	9.14	109.05	105.40
24	BA	4	C	N3-C2-O2	-9.13	115.51	121.90
3	A1	256	U	C5-C6-N1	-9.13	118.13	122.70
3	A1	499	A	N1-C6-N6	-9.13	113.12	118.60
25	BB	409	G	C5-C6-N1	9.13	116.07	111.50
25	BB	1937	A	C4-C5-C6	-9.13	112.43	117.00
25	BB	2709	G	C3'-C2'-C1'	9.13	108.81	101.50
3	A1	859	G	N3-C4-C5	-9.13	124.03	128.60
25	BB	867	C	C6-N1-C2	-9.13	116.65	120.30
25	BB	1702	G	C3'-C2'-C1'	9.13	108.81	101.50
25	BB	2774	C	N3-C2-O2	-9.13	115.51	121.90
25	BB	2774	C	O4'-C1'-N1	-9.13	100.89	108.20
39	BP	68	PHE	CB-CG-CD2	9.13	127.19	120.80
3	A1	352	C	C6-N1-C2	-9.13	116.65	120.30
3	A1	589	U	C4-C5-C6	9.13	125.18	119.70
3	A1	1003	G	C5-C6-N1	9.13	116.06	111.50
3	A1	1331	G	C1'-O4'-C4'	-9.13	102.60	109.90
25	BB	246	C	N1-C2-O2	9.13	124.38	118.90
25	BB	763	G	N3-C2-N2	-9.13	113.51	119.90
25	BB	2092	U	C4-C5-C6	9.13	125.18	119.70
25	BB	2107	G	C5-C6-O6	9.13	134.08	128.60
3	A1	1270	G	N1-C2-N3	9.13	129.38	123.90
24	BA	96	G	C5-C6-N1	9.13	116.06	111.50
25	BB	2107	G	N9-C4-C5	9.13	109.05	105.40
1	AE	1	G	C1'-O4'-C4'	-9.12	102.60	109.90
3	A1	95	C	N3-C2-O2	-9.12	115.51	121.90
3	A1	1127	G	C6-N1-C2	-9.12	119.63	125.10
25	BB	1624	U	O4'-C1'-N1	9.12	115.50	108.20
25	BB	2004	G	C2-N3-C4	9.12	116.46	111.90
3	A1	1533	C	N3-C2-O2	-9.12	115.51	121.90
25	BB	963	U	O4'-C1'-N1	9.12	115.50	108.20
1	AE	27	C	N3-C2-O2	-9.12	115.52	121.90
3	A1	1055	A	C5-C6-N6	9.12	131.00	123.70
20	AU	9	ARG	NE-CZ-NH2	-9.12	115.74	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	601	C	C2-N3-C4	-9.12	115.34	119.90
25	BB	801	G	N1-C6-O6	-9.12	114.43	119.90
25	BB	1265	A	C5-C6-N1	9.12	122.26	117.70
25	BB	2216	G	C5-C6-N1	9.12	116.06	111.50
25	BB	2238	G	O4'-C1'-N9	9.12	115.50	108.20
25	BB	2328	A	N1-C2-N3	-9.12	124.74	129.30
1	AE	26	G	C4-C5-N7	9.12	114.45	110.80
25	BB	507	A	C2-N3-C4	9.12	115.16	110.60
3	A1	266	G	N9-C4-C5	9.12	109.05	105.40
3	A1	312	C	N3-C4-N4	-9.12	111.62	118.00
25	BB	662	G	N1-C6-O6	-9.12	114.43	119.90
37	BN	261	ARG	NE-CZ-NH2	9.12	124.86	120.30
3	A1	502	A	O4'-C1'-N9	9.12	115.49	108.20
12	AK	42	ARG	NE-CZ-NH2	9.12	124.86	120.30
25	BB	1408	G	C2-N3-C4	9.12	116.46	111.90
3	A1	91	U	C4-C5-C6	9.12	125.17	119.70
3	A1	326	G	N9-C4-C5	9.12	109.05	105.40
3	A1	492	C	C4-C5-C6	9.12	121.96	117.40
25	BB	782	A	C3'-C2'-C1'	9.12	108.79	101.50
3	A1	978	A	C5-C6-N1	9.11	122.26	117.70
25	BB	1927	A	N3-C4-C5	9.12	133.18	126.80
3	A1	71	A	C1'-O4'-C4'	-9.11	102.61	109.90
25	BB	1064	C	N3-C2-O2	-9.11	115.52	121.90
25	BB	1736	U	N3-C4-O4	9.11	125.78	119.40
25	BB	2102	G	C6-N1-C2	-9.11	119.63	125.10
25	BB	2297	A	C5-C6-N6	9.11	130.99	123.70
3	A1	332	G	C4'-C3'-C2'	-9.11	93.49	102.60
3	A1	699	C	C3'-C2'-C1'	9.11	108.79	101.50
25	BB	778	G	O4'-C1'-N9	9.11	115.49	108.20
3	A1	1529	G	C2-N3-C4	9.11	116.45	111.90
25	BB	381	G	C3'-C2'-C1'	9.11	108.79	101.50
25	BB	2628	C	N3-C4-N4	-9.11	111.62	118.00
25	BB	780	G	N9-C4-C5	9.11	109.04	105.40
25	BB	2031	A	C6-C5-N7	9.11	138.68	132.30
25	BB	2118	U	O4'-C1'-N1	9.11	115.49	108.20
25	BB	2178	C	C2-N3-C4	-9.11	115.34	119.90
25	BB	2744	G	C2-N3-C4	9.11	116.45	111.90
25	BB	2398	U	N3-C4-C5	9.11	120.06	114.60
25	BB	2611	C	C1'-O4'-C4'	9.11	117.19	109.90
3	A1	568	G	C8-N9-C4	-9.11	102.76	106.40
3	A1	1520	C	C5-C6-N1	-9.11	116.45	121.00
25	BB	2126	A	C5-N7-C8	9.11	108.45	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	220	G	C3'-C2'-C1'	9.11	108.78	101.50
3	A1	717	U	C5-C6-N1	-9.11	118.15	122.70
25	BB	916	G	C6-C5-N7	9.11	135.86	130.40
25	BB	1475	G	C5-C6-O6	-9.11	123.14	128.60
25	BB	1574	C	C2-N3-C4	-9.11	115.35	119.90
25	BB	1818	U	O4'-C1'-N1	9.11	115.48	108.20
25	BB	2100	G	C4-C5-N7	-9.11	107.16	110.80
25	BB	2680	U	N3-C2-O2	-9.11	115.83	122.20
2	AM	10	U	C5-C4-O4	9.10	131.36	125.90
25	BB	2824	C	O4'-C1'-N1	9.10	115.48	108.20
3	A1	560	A	C2-N3-C4	9.10	115.15	110.60
3	A1	764	C	C2-N3-C4	-9.10	115.35	119.90
3	A1	776	G	C4-C5-C6	-9.10	113.34	118.80
3	A1	1161	C	C1'-O4'-C4'	-9.10	102.62	109.90
25	BB	1402	U	C5-C4-O4	9.10	131.36	125.90
3	A1	25	C	N3-C2-O2	-9.10	115.53	121.90
3	A1	282	A	C6-C5-N7	9.10	138.67	132.30
3	A1	805	C	N1-C2-N3	9.10	125.57	119.20
25	BB	276	U	C4'-C3'-C2'	-9.10	93.50	102.60
25	BB	357	C	N3-C4-N4	-9.10	111.63	118.00
25	BB	793	A	C5-N7-C8	-9.10	99.35	103.90
25	BB	1212	G	N1-C6-O6	-9.10	114.44	119.90
25	BB	1774	C	C6-N1-C2	-9.10	116.66	120.30
25	BB	1979	U	C5-C6-N1	-9.10	118.15	122.70
25	BB	2157	G	C5-N7-C8	-9.10	99.75	104.30
3	A1	274	A	N1-C6-N6	-9.10	113.14	118.60
3	A1	817	C	O4'-C1'-C2'	-9.10	96.70	105.80
18	AS	111	ARG	NE-CZ-NH2	9.10	124.85	120.30
25	BB	650	C	N1-C2-O2	9.10	124.36	118.90
25	BB	1110	G	C6-C5-N7	9.10	135.86	130.40
25	BB	1292	G	N3-C4-C5	-9.10	124.05	128.60
1	AE	37	G	C5-C6-N1	9.09	116.05	111.50
1	AE	70	C	C4-C5-C6	-9.09	112.85	117.40
3	A1	151	A	N9-C4-C5	-9.09	102.16	105.80
3	A1	406	G	C5-C6-O6	9.09	134.06	128.60
25	BB	1591	A	N1-C6-N6	-9.09	113.14	118.60
29	BF	55	ARG	NE-CZ-NH2	9.09	124.85	120.30
3	A1	1006	G	O4'-C1'-N9	9.09	115.47	108.20
25	BB	1758	U	N1-C2-N3	9.09	120.36	114.90
25	BB	1802	A	C2-N3-C4	9.09	115.15	110.60
3	A1	272	C	N3-C2-O2	-9.09	115.54	121.90
3	A1	291	U	O4'-C1'-N1	9.09	115.47	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	947	G	C6-N1-C2	-9.09	119.64	125.10
25	BB	608	A	C5-C6-N6	9.09	130.97	123.70
25	BB	670	A	C4-C5-C6	-9.09	112.45	117.00
25	BB	2071	A	C4-C5-C6	-9.09	112.45	117.00
25	BB	2655	G	N1-C2-N3	9.09	129.35	123.90
1	AA	43	G	N9-C4-C5	-9.09	101.77	105.40
3	A1	929	G	N9-C4-C5	9.09	109.03	105.40
3	A1	1187	G	N1-C6-O6	-9.09	114.45	119.90
25	BB	231	A	C5-C6-N6	9.09	130.97	123.70
25	BB	228	C	N3-C4-C5	9.09	125.53	121.90
25	BB	742	A	C1'-O4'-C4'	-9.09	102.63	109.90
25	BB	1623	G	C4-C5-N7	-9.09	107.17	110.80
25	BB	2735	G	C6-C5-N7	9.09	135.85	130.40
25	BB	2869	G	N1-C6-O6	-9.09	114.45	119.90
3	A1	1269	A	C5-C6-N1	9.08	122.24	117.70
25	BB	1126	A	N9-C1'-C2'	9.08	125.81	114.00
3	A1	279	A	O4'-C1'-N9	9.08	115.47	108.20
3	A1	538	G	N9-C4-C5	-9.08	101.77	105.40
3	A1	656	G	C4-C5-N7	-9.08	107.17	110.80
24	BA	58	A	C6-C5-N7	9.08	138.66	132.30
25	BB	866	A	N1-C2-N3	-9.08	124.76	129.30
25	BB	1156	A	N9-C4-C5	-9.08	102.17	105.80
25	BB	1600	C	C5-C4-N4	9.08	126.56	120.20
25	BB	2173	A	N1-C6-N6	-9.08	113.15	118.60
25	BB	2345	G	N7-C8-N9	-9.08	108.56	113.10
25	BB	2407	A	N9-C4-C5	-9.08	102.17	105.80
25	BB	449	A	O4'-C4'-C3'	9.08	113.36	106.10
3	A1	73	C	C3'-C2'-C1'	9.08	108.76	101.50
3	A1	309	A	C4-C5-N7	9.08	115.24	110.70
3	A1	1152	A	C2-N3-C4	9.08	115.14	110.60
3	A1	1319	A	C6-C5-N7	9.08	138.66	132.30
25	BB	710	U	N3-C4-O4	9.08	125.76	119.40
3	A1	1387	G	C4-C5-N7	9.08	114.43	110.80
25	BB	1803	A	C4-C5-N7	9.08	115.24	110.70
1	AP	65	G	N3-C4-N9	9.08	131.45	126.00
25	BB	3	U	C2-N3-C4	-9.08	121.55	127.00
3	A1	420	U	C4-C5-C6	9.08	125.15	119.70
3	A1	1003	G	N3-C4-C5	-9.08	124.06	128.60
25	BB	1032	A	C4-C5-C6	-9.08	112.46	117.00
25	BB	1211	C	O4'-C1'-C2'	-9.08	96.72	105.80
25	BB	1432	G	C4-C5-C6	-9.08	113.35	118.80
25	BB	1636	U	N1-C2-N3	9.08	120.35	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AP	29	A	O4'-C1'-N9	9.07	115.46	108.20
1	AE	32	C	C5-C6-N1	-9.07	116.46	121.00
25	BB	1398	C	N3-C2-O2	-9.07	115.55	121.90
25	BB	1695	G	C2-N3-C4	9.07	116.44	111.90
3	A1	1438	G	N3-C2-N2	-9.07	113.55	119.90
25	BB	2288	A	C6-N1-C2	-9.07	113.16	118.60
25	BB	2484	G	N3-C2-N2	-9.07	113.55	119.90
3	A1	661	G	N9-C4-C5	9.07	109.03	105.40
3	A1	671	G	C2-N3-C4	9.07	116.44	111.90
3	A1	1134	G	C5-C6-N1	9.07	116.03	111.50
25	BB	1634	A	N3-C4-C5	-9.07	120.45	126.80
25	BB	397	U	C4-C5-C6	9.07	125.14	119.70
25	BB	631	A	C5-C6-N1	9.07	122.23	117.70
25	BB	760	G	O4'-C1'-N9	9.07	115.46	108.20
25	BB	1262	A	C4-C5-C6	-9.07	112.46	117.00
25	BB	2399	G	C2-N3-C4	9.07	116.44	111.90
25	BB	2498	C	N3-C4-N4	-9.07	111.65	118.00
25	BB	1528	A	C4'-C3'-C2'	-9.07	93.53	102.60
25	BB	2180	U	C5-C6-N1	-9.07	118.17	122.70
3	A1	143	A	C6-C5-N7	9.07	138.65	132.30
3	A1	1049	U	C5-C6-N1	-9.07	118.17	122.70
3	A1	795	C	N1-C2-O2	9.07	124.34	118.90
3	A1	1402	C	C2-N3-C4	-9.07	115.37	119.90
25	BB	391	A	C3'-C2'-C1'	9.07	108.75	101.50
25	BB	1007	C	N1-C2-N3	9.07	125.55	119.20
25	BB	2120	G	N1-C6-O6	-9.07	114.46	119.90
25	BB	2667	C	N3-C4-C5	-9.07	118.27	121.90
51	B2	177	ARG	NE-CZ-NH2	9.07	124.83	120.30
3	A1	1155	A	N7-C8-N9	9.06	118.33	113.80
3	A1	1496	C	N3-C4-C5	9.06	125.53	121.90
25	BB	43	G	C5-C6-N1	9.06	116.03	111.50
25	BB	2424	C	C5-C4-N4	9.06	126.55	120.20
1	AP	55	U	N3-C2-O2	-9.06	115.86	122.20
3	A1	775	G	N7-C8-N9	9.06	117.63	113.10
25	BB	788	A	C5-C6-N1	9.06	122.23	117.70
25	BB	1618	A	C5-C6-N1	9.06	122.23	117.70
25	BB	2536	G	N1-C6-O6	-9.06	114.46	119.90
25	BB	2674	G	C8-N9-C4	-9.06	102.78	106.40
25	BB	2885	G	C6-N1-C2	-9.06	119.66	125.10
3	A1	289	G	O4'-C1'-N9	-9.06	100.95	108.20
3	A1	355	C	C5-C4-N4	-9.06	113.86	120.20
3	A1	1465	A	C5-N7-C8	-9.06	99.37	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	357	C	O4'-C1'-N1	9.06	115.45	108.20
25	BB	386	G	C5-C6-O6	9.06	134.04	128.60
25	BB	556	A	C8-N9-C4	-9.06	102.18	105.80
25	BB	669	G	N1-C6-O6	-9.06	114.46	119.90
25	BB	1248	G	O4'-C1'-N9	9.06	115.45	108.20
25	BB	1383	A	C4-C5-C6	-9.06	112.47	117.00
25	BB	2389	G	C6-C5-N7	9.06	135.84	130.40
25	BB	2579	C	N3-C2-O2	-9.06	115.56	121.90
25	BB	2700	A	C5-C6-N1	9.06	122.23	117.70
3	A1	466	A	C2-N3-C4	9.06	115.13	110.60
25	BB	1643	G	N3-C4-C5	-9.06	124.07	128.60
3	A1	463	U	C3'-C2'-C1'	9.06	108.75	101.50
3	A1	1204	A	C4-C5-C6	-9.06	112.47	117.00
25	BB	550	C	O4'-C1'-N1	9.06	115.45	108.20
25	BB	802	A	C8-N9-C4	-9.06	102.18	105.80
25	BB	824	U	N1-C2-N3	9.06	120.33	114.90
25	BB	1227	G	C6-C5-N7	9.06	135.84	130.40
25	BB	1630	A	C3'-C2'-C1'	9.06	108.75	101.50
3	A1	114	U	O4'-C1'-N1	-9.06	100.95	108.20
3	A1	504	C	N3-C4-C5	9.05	125.52	121.90
24	BA	60	C	C2-N3-C4	-9.06	115.37	119.90
3	A1	840	C	C6-N1-C2	-9.05	116.68	120.30
3	A1	1098	C	N1-C2-O2	9.05	124.33	118.90
25	BB	164	C	C5-C6-N1	-9.05	116.47	121.00
25	BB	638	G	C4-C5-N7	-9.05	107.18	110.80
25	BB	761	A	C5-N7-C8	-9.06	99.37	103.90
25	BB	1076	C	C2-N3-C4	-9.05	115.37	119.90
25	BB	209	C	C2-N3-C4	-9.05	115.37	119.90
25	BB	722	A	N1-C2-N3	9.05	133.83	129.30
25	BB	1436	G	C8-N9-C4	-9.05	102.78	106.40
25	BB	1530	G	C5-C6-N1	9.05	116.03	111.50
1	AP	75	C	N3-C2-O2	-9.05	115.56	121.90
3	A1	730	G	C3'-C2'-C1'	9.05	108.74	101.50
25	BB	201	C	C5-C4-N4	9.05	126.54	120.20
3	A1	71	A	O4'-C4'-C3'	9.05	113.34	106.10
3	A1	460	A	N1-C6-N6	-9.05	113.17	118.60
25	BB	436	C	C4-C5-C6	-9.05	112.87	117.40
25	BB	1729	U	N1-C2-O2	9.05	129.14	122.80
25	BB	2423	U	C2-N3-C4	-9.05	121.57	127.00
49	BZ	98	ARG	NH1-CZ-NH2	-9.05	109.44	119.40
1	AA	33	U	N3-C4-C5	-9.05	109.17	114.60
3	A1	1379	G	C8-N9-C4	-9.05	102.78	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	115	C	C4-C5-C6	-9.05	112.88	117.40
25	BB	328	U	C4-C5-C6	9.05	125.13	119.70
25	BB	343	C	N3-C2-O2	-9.05	115.57	121.90
25	BB	956	G	C4-C5-N7	-9.05	107.18	110.80
25	BB	1379	U	N3-C2-O2	-9.05	115.87	122.20
25	BB	1656	C	C3'-C2'-C1'	9.05	108.74	101.50
25	BB	1887	C	N3-C2-O2	-9.05	115.57	121.90
25	BB	2057	G	C4-C5-N7	-9.05	107.18	110.80
25	BB	2403	C	N3-C2-O2	-9.05	115.57	121.90
25	BB	2404	U	N3-C4-O4	-9.05	113.07	119.40
24	BA	75	G	N3-C4-C5	-9.05	124.08	128.60
1	AA	63	C	C4'-C3'-C2'	-9.04	93.56	102.60
3	A1	1053	G	C2-N3-C4	9.04	116.42	111.90
25	BB	2419	U	N3-C2-O2	-9.05	115.87	122.20
3	A1	1478	U	N1-C2-N3	9.04	120.33	114.90
25	BB	933	A	C2-N3-C4	9.04	115.12	110.60
25	BB	2453	A	C4-C5-N7	-9.04	106.18	110.70
25	BB	2592	G	O4'-C4'-C3'	9.05	113.34	106.10
1	AA	3	G	C5'-C4'-C3'	-9.04	101.53	116.00
3	A1	185	U	C2-N3-C4	-9.04	121.57	127.00
3	A1	572	A	C2-N3-C4	9.04	115.12	110.60
3	A1	601	G	C6-C5-N7	9.04	135.82	130.40
3	A1	1220	G	C8-N9-C4	-9.04	102.78	106.40
24	BA	19	C	N1-C2-O2	9.04	124.33	118.90
25	BB	1174	U	N3-C4-O4	9.04	125.73	119.40
25	BB	1354	A	C6-N1-C2	9.04	124.03	118.60
38	BO	70	ALA	CB-CA-C	9.04	123.67	110.10
25	BB	1441	G	N1-C6-O6	-9.04	114.47	119.90
25	BB	2468	A	C2-N3-C4	9.04	115.12	110.60
25	BB	2786	U	O4'-C1'-N1	9.04	115.43	108.20
25	BB	2820	A	C5-N7-C8	-9.04	99.38	103.90
30	BG	17	ARG	NH1-CZ-NH2	-9.04	109.45	119.40
1	AA	21	A	C4-C5-C6	-9.04	112.48	117.00
3	A1	258	G	N3-C4-C5	-9.04	124.08	128.60
3	A1	1369	C	N3-C4-C5	9.04	125.52	121.90
25	BB	1019	U	O4'-C1'-N1	9.04	115.43	108.20
25	BB	1075	C	C5-C4-N4	-9.04	113.87	120.20
25	BB	1943	U	C5-C6-N1	-9.04	118.18	122.70
25	BB	2013	A	C2-N3-C4	9.04	115.12	110.60
25	BB	2124	G	C4-C5-N7	-9.04	107.19	110.80
25	BB	2411	A	O4'-C1'-N9	9.04	115.43	108.20
25	BB	2186	G	O4'-C1'-N9	-9.04	100.97	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2564	A	C4-C5-C6	-9.04	112.48	117.00
3	A1	422	C	C3'-C2'-C1'	9.04	108.73	101.50
3	A1	227	G	N3-C4-C5	-9.03	124.08	128.60
3	A1	315	A	O4'-C4'-C3'	9.03	113.33	106.10
3	A1	377	G	N1-C6-O6	-9.04	114.48	119.90
3	A1	494	G	C5-C6-N1	9.04	116.02	111.50
3	A1	1299	A	C4-C5-C6	-9.03	112.48	117.00
25	BB	382	A	C5-C6-N1	9.03	122.22	117.70
25	BB	467	G	N1-C2-N3	9.04	129.32	123.90
25	BB	780	G	C8-N9-C1'	9.03	138.75	127.00
25	BB	927	A	C4-C5-C6	-9.04	112.48	117.00
25	BB	1644	C	C2-N3-C4	-9.04	115.38	119.90
25	BB	2185	U	C1'-O4'-C4'	-9.04	102.67	109.90
25	BB	2591	C	O4'-C1'-N1	9.03	115.43	108.20
1	AA	44	A	C4-C5-C6	-9.03	112.48	117.00
3	A1	166	U	N3-C4-O4	-9.03	113.08	119.40
3	A1	270	A	O4'-C1'-N9	9.03	115.43	108.20
3	A1	278	G	N3-C4-C5	-9.03	124.08	128.60
25	BB	941	A	C8-N9-C4	-9.03	102.19	105.80
25	BB	131	A	C5-C6-N6	9.03	130.92	123.70
25	BB	1103	A	O4'-C1'-N9	-9.03	100.98	108.20
1	AE	3	G	N1-C6-O6	-9.03	114.48	119.90
3	A1	65	A	N1-C2-N3	-9.03	124.78	129.30
3	A1	514	C	N3-C4-C5	9.03	125.51	121.90
25	BB	490	C	C5-C4-N4	-9.03	113.88	120.20
3	A1	1136	C	C5-C6-N1	-9.03	116.49	121.00
25	BB	765	C	N1-C2-O2	9.03	124.32	118.90
25	BB	1879	C	C2-N3-C4	-9.03	115.39	119.90
25	BB	1922	G	C5-C6-O6	9.03	134.02	128.60
25	BB	1962	C	C5-C6-N1	-9.03	116.49	121.00
25	BB	2030	A	C2-N3-C4	9.03	115.11	110.60
25	BB	2860	A	C4-C5-N7	9.03	115.22	110.70
25	BB	84	A	C8-N9-C4	-9.03	102.19	105.80
3	A1	105	G	C1'-O4'-C4'	-9.03	102.68	109.90
3	A1	781	A	C4-C5-C6	-9.03	112.49	117.00
3	A1	816	A	C6-N1-C2	-9.03	113.19	118.60
25	BB	330	A	C5-C6-N6	9.03	130.92	123.70
25	BB	1248	G	N3-C2-N2	-9.03	113.58	119.90
25	BB	2778	A	N9-C4-C5	9.03	109.41	105.80
25	BB	2794	C	N1-C2-O2	9.03	124.32	118.90
25	BB	2870	C	N1-C2-O2	9.03	124.32	118.90
1	AP	69	U	C4-C5-C6	9.02	125.11	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	378	G	C4'-C3'-C2'	9.02	111.62	102.60
3	A1	472	U	C3'-C2'-C1'	9.02	108.72	101.50
3	A1	588	G	N3-C4-C5	-9.02	124.09	128.60
3	A1	770	C	N1-C2-O2	9.02	124.31	118.90
3	A1	1343	G	N9-C4-C5	9.02	109.01	105.40
3	A1	1511	G	C2-N3-C4	9.02	116.41	111.90
25	BB	379	G	C6-N1-C2	-9.02	119.69	125.10
25	BB	847	U	C2-N3-C4	9.02	132.41	127.00
36	BM	73	ARG	NE-CZ-NH2	9.02	124.81	120.30
25	BB	85	G	C5'-C4'-O4'	9.02	119.93	109.10
25	BB	841	G	C5-C6-O6	9.02	134.01	128.60
25	BB	1025	G	C2-N3-C4	9.02	116.41	111.90
25	BB	2120	G	N3-C4-C5	-9.02	124.09	128.60
3	A1	530	G	N9-C4-C5	-9.02	101.79	105.40
3	A1	867	G	O4'-C4'-C3'	-9.02	94.98	104.00
25	BB	1164	C	C5'-C4'-O4'	9.02	119.92	109.10
25	BB	1358	G	C3'-C2'-C1'	-9.02	94.28	101.50
3	A1	188	C	N3-C2-O2	-9.02	115.59	121.90
3	A1	755	G	C5'-C4'-O4'	9.02	119.92	109.10
25	BB	233	A	C4-C5-C6	-9.02	112.49	117.00
25	BB	1667	G	N1-C6-O6	-9.02	114.49	119.90
25	BB	2853	C	N1-C2-O2	9.02	124.31	118.90
25	BB	5	A	C3'-C2'-C1'	9.02	108.71	101.50
25	BB	669	G	C5-C6-N1	9.02	116.01	111.50
25	BB	2157	G	N3-C4-C5	-9.02	124.09	128.60
3	A1	129	A	C5-C6-N6	9.02	130.91	123.70
3	A1	1032	G	N3-C2-N2	-9.02	113.59	119.90
25	BB	1136	G	N1-C6-O6	-9.02	114.49	119.90
25	BB	1560	G	C6-C5-N7	9.02	135.81	130.40
25	BB	2355	G	O4'-C1'-N9	-9.02	100.99	108.20
25	BB	2244	U	O4'-C1'-N1	9.02	115.41	108.20
25	BB	2612	C	C2-N3-C4	-9.02	115.39	119.90
3	A1	34	C	N3-C4-C5	9.01	125.50	121.90
3	A1	412	A	O3'-P-O5'	-9.01	86.87	104.00
3	A1	460	A	C4-C5-C6	-9.01	112.49	117.00
24	BA	51	G	N9-C4-C5	9.01	109.01	105.40
25	BB	1214	A	C8-N9-C4	-9.01	102.19	105.80
25	BB	1835	G	N3-C4-C5	-9.01	124.09	128.60
25	BB	1951	U	C5-C4-O4	9.01	131.31	125.90
25	BB	2127	G	N3-C4-N9	9.01	131.41	126.00
25	BB	2317	A	C8-N9-C4	-9.01	102.19	105.80
25	BB	2379	G	N3-C4-C5	-9.01	124.09	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	59	A	C5-N7-C8	-9.01	99.39	103.90
1	AE	10	G	N3-C4-N9	9.01	131.41	126.00
3	A1	295	C	C5-C6-N1	-9.01	116.50	121.00
3	A1	767	A	C5-C6-N1	9.01	122.20	117.70
3	A1	1372	U	O4'-C1'-N1	9.01	115.41	108.20
24	BA	37	C	N3-C4-N4	-9.01	111.69	118.00
25	BB	27	G	N1-C2-N3	9.01	129.31	123.90
25	BB	622	G	C1'-O4'-C4'	-9.01	102.69	109.90
25	BB	1766	G	O4'-C1'-N9	9.01	115.41	108.20
25	BB	1451	C	C5'-C4'-O4'	-9.01	98.29	109.10
25	BB	2149	U	O4'-C1'-N1	9.01	115.41	108.20
25	BB	2364	C	C6-N1-C2	-9.01	116.70	120.30
25	BB	2760	C	N1-C2-O2	9.01	124.31	118.90
1	AA	59	U	C4-C5-C6	-9.01	114.30	119.70
3	A1	568	G	C4-C5-N7	-9.01	107.20	110.80
25	BB	1478	G	C3'-C2'-C1'	9.01	108.71	101.50
25	BB	1860	G	C8-N9-C4	9.01	110.00	106.40
3	A1	585	G	N7-C8-N9	9.01	117.60	113.10
3	A1	876	C	N3-C2-O2	-9.01	115.60	121.90
25	BB	1059	G	N9-C4-C5	9.01	109.00	105.40
3	A1	1064	G	N3-C4-C5	-9.01	124.10	128.60
25	BB	1073	A	C4-C5-N7	9.01	115.20	110.70
25	BB	1175	A	C8-N9-C4	-9.01	102.20	105.80
25	BB	1620	G	C3'-C2'-C1'	9.01	108.70	101.50
25	BB	2067	G	O4'-C1'-N9	9.01	115.41	108.20
25	BB	2427	C	N1-C2-O2	9.01	124.30	118.90
25	BB	1658	C	C2-N3-C4	-9.01	115.40	119.90
15	AO	130	ARG	NE-CZ-NH1	9.00	124.80	120.30
3	A1	120	A	N9-C4-C5	9.00	109.40	105.80
3	A1	683	G	C6-C5-N7	9.00	135.80	130.40
3	A1	871	U	C4-C5-C6	9.00	125.10	119.70
25	BB	439	A	C5-C6-N1	9.00	122.20	117.70
25	BB	1346	G	C6-C5-N7	9.00	135.80	130.40
25	BB	2494	G	N1-C6-O6	-9.00	114.50	119.90
25	BB	1370	C	C5-C4-N4	9.00	126.50	120.20
1	AP	58	A	C6-C5-N7	9.00	138.60	132.30
25	BB	715	A	N3-C4-N9	-9.00	120.20	127.40
3	A1	293	G	N9-C4-C5	9.00	109.00	105.40
25	BB	760	G	O4'-C4'-C3'	-9.00	95.00	104.00
25	BB	874	G	C5-C6-O6	9.00	134.00	128.60
25	BB	2284	A	C4-C5-C6	-9.00	112.50	117.00
25	BB	1750	G	N3-C2-N2	-9.00	113.60	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1858	A	N7-C8-N9	9.00	118.30	113.80
25	BB	45	G	N1-C6-O6	-9.00	114.50	119.90
25	BB	368	A	C5-N7-C8	-9.00	99.40	103.90
1	AP	35	A	C6-C5-N7	9.00	138.60	132.30
3	A1	368	U	N3-C4-O4	9.00	125.70	119.40
3	A1	650	G	N3-C2-N2	-9.00	113.60	119.90
3	A1	1397	C	N1-C2-O2	9.00	124.30	118.90
25	BB	232	G	C4-C5-N7	-9.00	107.20	110.80
25	BB	877	A	C4-C5-C6	-9.00	112.50	117.00
25	BB	1083	U	N3-C2-O2	-9.00	115.90	122.20
25	BB	1162	G	C6-C5-N7	9.00	135.80	130.40
25	BB	1332	G	C5-N7-C8	-9.00	99.80	104.30
25	BB	1424	G	N3-C4-N9	9.00	131.40	126.00
25	BB	2207	C	N1-C2-O2	9.00	124.30	118.90
25	BB	2338	C	C2-N3-C4	-9.00	115.40	119.90
1	AE	55	U	N3-C2-O2	-8.99	115.91	122.20
3	A1	730	G	C6-C5-N7	8.99	135.80	130.40
8	AG	64	ARG	NH1-CZ-NH2	-8.99	109.51	119.40
25	BB	301	G	C3'-C2'-C1'	-8.99	94.30	101.50
25	BB	1778	U	N3-C2-O2	-8.99	115.90	122.20
25	BB	2063	C	N3-C2-O2	-8.99	115.60	121.90
25	BB	2186	G	N3-C2-N2	-8.99	113.60	119.90
3	A1	847	G	C5-C6-N1	8.99	116.00	111.50
25	BB	91	A	O4'-C1'-N9	-8.99	101.01	108.20
25	BB	1061	U	N1-C2-N3	8.99	120.30	114.90
25	BB	1845	G	N1-C2-N3	8.99	129.30	123.90
25	BB	2186	G	N1-C2-N3	8.99	129.30	123.90
25	BB	1174	U	N3-C2-O2	-8.99	115.91	122.20
25	BB	1474	U	C2-N3-C4	-8.99	121.61	127.00
25	BB	2057	G	N9-C4-C5	8.99	109.00	105.40
3	A1	900	A	C6-C5-N7	8.99	138.59	132.30
25	BB	2476	A	C4-C5-N7	-8.99	106.20	110.70
1	AA	17	U	N3-C4-C5	-8.99	109.21	114.60
3	A1	173	U	N1-C2-N3	8.99	120.29	114.90
3	A1	320	A	O4'-C1'-N9	8.99	115.39	108.20
25	BB	1	G	C6-C5-N7	8.99	135.79	130.40
25	BB	909	A	C4-C5-N7	8.99	115.19	110.70
25	BB	1774	C	C1'-O4'-C4'	-8.99	102.71	109.90
25	BB	2051	A	O4'-C4'-C3'	-8.99	95.01	104.00
25	BB	2729	G	C5-C6-N1	8.99	116.00	111.50
1	AP	4	G	N1-C6-O6	-8.99	114.51	119.90
3	A1	63	C	N3-C4-C5	8.99	125.50	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	472	U	N1-C2-N3	8.99	120.29	114.90
25	BB	797	G	N1-C6-O6	-8.99	114.51	119.90
25	BB	854	C	N3-C4-C5	8.99	125.50	121.90
25	BB	1338	G	C1'-O4'-C4'	-8.99	102.71	109.90
25	BB	1611	C	N1-C2-O2	8.99	124.29	118.90
25	BB	849	A	C4'-C3'-C2'	-8.99	93.61	102.60
25	BB	1210	G	N3-C2-N2	-8.99	113.61	119.90
25	BB	1281	G	C5-C6-O6	8.99	133.99	128.60
25	BB	1426	G	C4-C5-C6	-8.99	113.41	118.80
25	BB	2055	C	N3-C4-C5	8.99	125.50	121.90
25	BB	2211	A	N1-C2-N3	-8.99	124.81	129.30
3	A1	557	G	C6-N1-C2	-8.98	119.71	125.10
25	BB	2178	C	N3-C4-C5	8.98	125.49	121.90
3	A1	149	A	O4'-C1'-N9	8.98	115.39	108.20
3	A1	376	G	C8-N9-C4	8.98	109.99	106.40
25	BB	728	G	N3-C2-N2	-8.98	113.61	119.90
25	BB	1298	C	N3-C4-C5	8.98	125.49	121.90
25	BB	2088	A	C5-C6-N1	8.98	122.19	117.70
25	BB	2701	U	N1-C2-O2	8.98	129.09	122.80
3	A1	546	A	C4-C5-C6	-8.98	112.51	117.00
3	A1	754	C	N3-C2-O2	-8.98	115.61	121.90
3	A1	928	G	C8-N9-C4	-8.98	102.81	106.40
3	A1	1116	U	C6-N1-C2	-8.98	115.61	121.00
25	BB	1789	A	N1-C2-N3	-8.98	124.81	129.30
25	BB	2145	C	N3-C4-N4	-8.98	111.71	118.00
3	A1	1252	A	N9-C4-C5	-8.98	102.21	105.80
25	BB	2297	A	C4-C5-C6	-8.98	112.51	117.00
3	A1	558	G	N7-C8-N9	-8.98	108.61	113.10
3	A1	1049	U	N3-C2-O2	-8.98	115.92	122.20
25	BB	1245	G	C3'-C2'-C1'	-8.98	94.32	101.50
25	BB	2536	G	C4-C5-N7	8.98	114.39	110.80
3	A1	1177	G	C4'-C3'-C2'	-8.98	93.62	102.60
25	BB	1	G	N3-C4-C5	-8.98	124.11	128.60
25	BB	251	A	C6-C5-N7	8.98	138.58	132.30
25	BB	801	G	N1-C2-N2	-8.98	108.12	116.20
25	BB	1393	A	C4-C5-C6	-8.98	112.51	117.00
25	BB	2345	G	N9-C4-C5	8.98	108.99	105.40
1	AA	60	C	N1-C2-N3	8.97	125.48	119.20
25	BB	1484	U	C1'-O4'-C4'	-8.97	102.72	109.90
25	BB	2083	G	O4'-C1'-N9	8.97	115.38	108.20
1	AE	44	A	N1-C6-N6	-8.97	113.22	118.60
3	A1	147	G	N3-C4-C5	-8.97	124.11	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	633	A	C4-C5-N7	8.97	115.19	110.70
25	BB	1356	G	N1-C2-N3	8.97	129.28	123.90
25	BB	2234	G	C5-C6-O6	8.97	133.99	128.60
25	BB	2550	G	N3-C2-N2	-8.97	113.62	119.90
3	A1	280	C	O4'-C4'-C3'	8.97	113.28	106.10
3	A1	1246	A	C4-C5-C6	-8.97	112.51	117.00
25	BB	1007	C	C5-C6-N1	-8.97	116.51	121.00
25	BB	1636	U	C2-N3-C4	-8.97	121.62	127.00
3	A1	1329	A	C5-C6-N6	8.97	130.88	123.70
3	A1	1345	U	C6-N1-C2	-8.97	115.62	121.00
15	AO	125	ARG	NH1-CZ-NH2	-8.97	109.53	119.40
25	BB	272	A	C5'-C4'-O4'	8.97	119.87	109.10
25	BB	130	C	O4'-C4'-C3'	8.97	113.28	106.10
25	BB	435	C	N1-C2-O2	8.97	124.28	118.90
25	BB	1608	A	C4'-C3'-C2'	-8.97	93.63	102.60
1	AP	13	C	N3-C2-O2	-8.97	115.62	121.90
3	A1	894	G	O4'-C1'-N9	-8.97	101.03	108.20
25	BB	408	G	N1-C6-O6	-8.97	114.52	119.90
25	BB	1532	A	C2-N3-C4	8.97	115.08	110.60
3	A1	1349	A	C4-C5-C6	-8.97	112.52	117.00
25	BB	501	A	C2-N3-C4	8.97	115.08	110.60
25	BB	871	U	N3-C2-O2	-8.97	115.92	122.20
25	BB	2216	G	N7-C8-N9	8.97	117.58	113.10
25	BB	2516	A	C6-C5-N7	8.97	138.58	132.30
25	BB	2825	G	N1-C6-O6	-8.97	114.52	119.90
25	BB	2880	C	C2-N3-C4	-8.97	115.42	119.90
1	AE	18	G	N3-C4-C5	-8.97	124.12	128.60
25	BB	453	A	C6-C5-N7	8.97	138.58	132.30
25	BB	1430	G	N3-C2-N2	-8.97	113.62	119.90
25	BB	2116	G	N3-C4-C5	-8.97	124.12	128.60
24	BA	58	A	C5-C6-N1	8.96	122.18	117.70
25	BB	536	G	N1-C6-O6	-8.96	114.52	119.90
25	BB	962	G	O4'-C1'-N9	8.96	115.37	108.20
2	AM	4	U	O5'-C5'-C4'	8.96	128.73	111.70
3	A1	52	C	C6-N1-C2	-8.96	116.72	120.30
3	A1	1293	C	P-O3'-C3'	8.96	130.46	119.70
25	BB	622	G	N1-C6-O6	-8.96	114.52	119.90
25	BB	2854	G	N1-C6-O6	-8.96	114.52	119.90
3	A1	108	G	C5-C6-O6	8.96	133.98	128.60
19	AT	57	ALA	N-CA-CB	-8.96	97.55	110.10
3	A1	406	G	OP1-P-OP2	-8.96	106.16	119.60
3	A1	495	A	N1-C2-N3	-8.96	124.82	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	109	A	C8-N9-C4	8.96	109.39	105.80
25	BB	8	C	C6-N1-C2	-8.96	116.72	120.30
25	BB	163	C	C5'-C4'-C3'	-8.96	101.66	116.00
25	BB	632	A	C5-C6-N6	8.96	130.87	123.70
25	BB	1931	U	N3-C4-C5	-8.96	109.22	114.60
25	BB	56	A	C5-C6-N1	8.96	122.18	117.70
25	BB	204	A	C5-C6-N6	8.96	130.87	123.70
25	BB	1167	C	N3-C4-N4	-8.96	111.73	118.00
25	BB	2521	C	N3-C4-C5	8.96	125.48	121.90
25	BB	1401	G	C2-N3-C4	-8.96	107.42	111.90
25	BB	2736	A	C5-C6-N1	8.96	122.18	117.70
25	BB	2498	C	N3-C2-O2	-8.96	115.63	121.90
3	A1	371	A	C5-C6-N1	8.96	122.18	117.70
3	A1	374	A	N3-C4-N9	-8.96	120.23	127.40
3	A1	755	G	C5-N7-C8	-8.96	99.82	104.30
3	A1	1251	A	C3'-C2'-C1'	8.96	108.67	101.50
25	BB	402	A	C3'-C2'-C1'	-8.96	94.33	101.50
25	BB	980	A	N9-C4-C5	8.96	109.38	105.80
25	BB	1114	C	C5-C6-N1	-8.96	116.52	121.00
25	BB	1664	A	O4'-C1'-N9	8.96	115.37	108.20
25	BB	2402	U	N1-C2-O2	8.96	129.07	122.80
25	BB	1690	A	C4-C5-C6	-8.96	112.52	117.00
25	BB	1691	C	N1-C2-O2	8.96	124.27	118.90
25	BB	2054	A	C3'-C2'-C1'	8.96	108.67	101.50
25	BB	2791	G	C6-N1-C2	-8.96	119.72	125.10
25	BB	1301	A	C1'-O4'-C4'	8.96	117.06	109.90
25	BB	2423	U	N3-C2-O2	-8.96	115.93	122.20
3	A1	7	A	C3'-C2'-C1'	-8.95	94.34	101.50
3	A1	1032	G	N1-C2-N3	8.95	129.27	123.90
3	A1	1057	G	C5-N7-C8	-8.95	99.82	104.30
25	BB	330	A	C5-C6-N1	8.95	122.18	117.70
25	BB	453	A	C5-C6-N6	8.96	130.86	123.70
25	BB	2421	G	O4'-C1'-N9	8.96	115.36	108.20
3	A1	627	G	C5-C6-O6	8.95	133.97	128.60
3	A1	1519	A	O4'-C1'-C2'	-8.95	96.85	105.80
7	AF	106	ARG	NE-CZ-NH2	-8.95	115.82	120.30
25	BB	1509	A	C5-C6-N6	8.95	130.86	123.70
25	BB	1981	A	C1'-O4'-C4'	-8.95	102.74	109.90
25	BB	2702	G	N3-C2-N2	-8.95	113.63	119.90
26	BC	18	ARG	NE-CZ-NH1	-8.95	115.83	120.30
1	AA	75	C	C2'-C3'-O3'	8.95	129.19	109.50
3	A1	1089	G	C5-N7-C8	-8.95	99.83	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	273	G	N1-C6-O6	-8.95	114.53	119.90
3	A1	448	A	N1-C2-N3	-8.95	124.83	129.30
25	BB	800	A	C3'-C2'-C1'	8.95	108.66	101.50
25	BB	898	C	C6-N1-C2	-8.95	116.72	120.30
25	BB	1023	U	O4'-C1'-N1	8.95	115.36	108.20
25	BB	1384	A	C1'-O4'-C4'	-8.95	102.74	109.90
25	BB	2217	G	C2-N3-C4	-8.95	107.42	111.90
25	BB	2867	G	C4-C5-N7	-8.95	107.22	110.80
25	BB	1940	U	C5-C6-N1	-8.95	118.23	122.70
25	BB	1986	C	C5-C4-N4	8.95	126.46	120.20
3	A1	1016	A	C4-C5-C6	-8.95	112.53	117.00
25	BB	93	G	N1-C6-O6	-8.95	114.53	119.90
25	BB	2414	G	N1-C2-N3	8.95	129.27	123.90
3	A1	1092	A	C5-C6-N6	8.95	130.86	123.70
3	A1	1458	G	C8-N9-C4	-8.95	102.82	106.40
25	BB	177	G	N1-C6-O6	-8.95	114.53	119.90
25	BB	694	U	C5-C6-N1	-8.95	118.23	122.70
25	BB	938	G	N9-C1'-C2'	-8.95	102.16	112.00
25	BB	2036	C	C5-C4-N4	8.95	126.46	120.20
25	BB	2463	C	C5-C4-N4	8.95	126.46	120.20
25	BB	2006	C	C2-N3-C4	-8.94	115.43	119.90
3	A1	1369	C	N1-C2-O2	8.94	124.27	118.90
25	BB	1430	G	N1-C2-N3	8.94	129.27	123.90
3	A1	25	C	O4'-C1'-N1	8.94	115.35	108.20
3	A1	265	G	N3-C4-N9	8.94	131.37	126.00
3	A1	487	A	N9-C4-C5	-8.94	102.22	105.80
3	A1	677	U	O4'-C1'-N1	8.94	115.35	108.20
3	A1	1414	U	N1-C2-N3	8.94	120.27	114.90
25	BB	188	G	C5-C6-O6	8.94	133.97	128.60
25	BB	304	U	C5-C6-N1	-8.94	118.23	122.70
25	BB	1194	A	C6-C5-N7	8.94	138.56	132.30
25	BB	1218	G	C4'-C3'-C2'	-8.94	93.66	102.60
25	BB	1510	G	C5-C6-O6	8.94	133.97	128.60
25	BB	2017	U	C5-C6-N1	-8.94	118.23	122.70
25	BB	2086	U	C5-C4-O4	-8.94	120.53	125.90
3	A1	498	A	C4-C5-C6	-8.94	112.53	117.00
3	A1	923	A	N9-C4-C5	-8.94	102.22	105.80
25	BB	742	A	C4-C5-C6	-8.94	112.53	117.00
25	BB	1543	G	C4-C5-C6	8.94	124.16	118.80
3	A1	718	A	O4'-C1'-N9	8.94	115.35	108.20
10	AI	31	ARG	NE-CZ-NH2	-8.94	115.83	120.30
25	BB	1110	G	N3-C4-C5	-8.94	124.13	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	72	C	C2-N3-C4	-8.94	115.43	119.90
3	A1	592	G	N7-C8-N9	8.94	117.57	113.10
25	BB	251	A	N1-C6-N6	-8.94	113.24	118.60
25	BB	196	A	C8-N9-C4	8.94	109.37	105.80
25	BB	2175	C	N3-C4-C5	8.94	125.47	121.90
25	BB	2396	G	C3'-C2'-C1'	8.94	108.65	101.50
49	BZ	87	ARG	NE-CZ-NH1	8.94	124.77	120.30
25	BB	2663	G	N3-C4-C5	-8.94	124.13	128.60
3	A1	52	C	O4'-C1'-N1	8.93	115.35	108.20
25	BB	1	G	N1-C6-O6	-8.93	114.54	119.90
25	BB	5	A	C4-C5-C6	-8.93	112.53	117.00
25	BB	164	C	C4-C5-C6	8.93	121.87	117.40
1	AE	31	A	N7-C8-N9	-8.93	109.33	113.80
25	BB	44	A	C4-C5-C6	-8.93	112.53	117.00
25	BB	244	A	C5-C6-N6	8.93	130.85	123.70
25	BB	616	A	C5-C6-N1	8.93	122.17	117.70
25	BB	760	G	C1'-O4'-C4'	8.93	117.05	109.90
25	BB	1940	U	N3-C2-O2	-8.93	115.95	122.20
25	BB	2196	C	C4'-C3'-C2'	-8.93	93.67	102.60
25	BB	2857	G	C4-C5-N7	-8.93	107.23	110.80
1	AE	3	G	N9-C4-C5	8.93	108.97	105.40
3	A1	24	U	C5-C4-O4	-8.93	120.54	125.90
3	A1	160	A	C4'-C3'-C2'	-8.93	93.67	102.60
3	A1	1331	G	N3-C4-N9	8.93	131.36	126.00
3	A1	1346	A	O4'-C1'-N9	8.93	115.34	108.20
25	BB	88	G	C8-N9-C4	-8.93	102.83	106.40
25	BB	981	A	C8-N9-C4	-8.93	102.23	105.80
25	BB	1182	G	C2-N3-C4	8.93	116.36	111.90
25	BB	1112	G	C5-C6-N1	8.93	115.96	111.50
25	BB	1290	C	C6-N1-C2	8.93	123.87	120.30
25	BB	1428	C	C5-C4-N4	-8.93	113.95	120.20
3	A1	635	A	C4-C5-C6	-8.93	112.54	117.00
3	A1	1335	U	C5-C4-O4	8.93	131.26	125.90
37	BN	68	ARG	NE-CZ-NH1	8.93	124.76	120.30
1	AP	20	G	N3-C2-N2	8.93	126.15	119.90
1	AE	4	G	N9-C4-C5	8.93	108.97	105.40
1	AE	69	U	N3-C4-O4	-8.93	113.15	119.40
3	A1	607	A	N1-C6-N6	-8.93	113.25	118.60
3	A1	832	G	N1-C2-N3	8.93	129.25	123.90
25	BB	893	C	C1'-O4'-C4'	-8.93	102.76	109.90
25	BB	1701	A	N1-C6-N6	-8.93	113.24	118.60
25	BB	580	U	N3-C2-O2	-8.93	115.95	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	898	G	C5-C6-N1	8.92	115.96	111.50
25	BB	670	A	C1'-O4'-C4'	-8.92	102.76	109.90
25	BB	2168	G	C4-C5-N7	-8.92	107.23	110.80
25	BB	1282	U	N3-C2-O2	-8.92	115.95	122.20
25	BB	1830	C	C6-N1-C2	-8.92	116.73	120.30
25	BB	2361	G	N3-C4-N9	8.92	131.35	126.00
25	BB	2850	A	N1-C2-N3	-8.92	124.84	129.30
51	B2	94	ARG	NE-CZ-NH1	8.92	124.76	120.30
5	AC	126	ARG	NH1-CZ-NH2	-8.92	109.59	119.40
25	BB	194	G	C3'-C2'-C1'	8.92	108.64	101.50
1	AA	17	U	O4'-C1'-C2'	-8.92	96.88	105.80
3	A1	33	A	N1-C2-N3	-8.92	124.84	129.30
3	A1	73	C	N3-C4-C5	8.92	125.47	121.90
25	BB	690	G	C6-C5-N7	8.92	135.75	130.40
25	BB	748	G	C6-N1-C2	-8.92	119.75	125.10
25	BB	911	A	C4-C5-N7	8.92	115.16	110.70
25	BB	1497	U	C1'-O4'-C4'	-8.92	102.76	109.90
25	BB	2512	C	C2-N3-C4	-8.92	115.44	119.90
25	BB	2757	A	C8-N9-C4	-8.92	102.23	105.80
3	A1	195	A	N1-C6-N6	-8.92	113.25	118.60
25	BB	36	G	C5-C6-N1	8.92	115.96	111.50
25	BB	1343	G	P-O3'-C3'	8.92	130.40	119.70
3	A1	731	G	C4-C5-N7	8.92	114.37	110.80
3	A1	1260	G	C5-C6-N1	8.92	115.96	111.50
25	BB	260	G	N7-C8-N9	8.92	117.56	113.10
25	BB	289	G	C5-C6-N1	8.92	115.96	111.50
25	BB	300	A	C5-C6-N6	8.92	130.83	123.70
25	BB	1379	U	C5-C6-N1	-8.92	118.24	122.70
25	BB	1536	C	N1-C2-N3	8.92	125.44	119.20
25	BB	1931	U	N3-C2-O2	-8.92	115.96	122.20
25	BB	2095	A	C4-C5-N7	8.92	115.16	110.70
25	BB	2558	C	O4'-C1'-N1	8.92	115.33	108.20
25	BB	2065	C	C5-C6-N1	-8.92	116.54	121.00
55	B6	116	ARG	NE-CZ-NH2	8.92	124.76	120.30
3	A1	387	U	C4-C5-C6	8.91	125.05	119.70
3	A1	1096	C	N3-C4-C5	8.91	125.47	121.90
25	BB	1040	A	N1-C2-N3	-8.91	124.84	129.30
25	BB	1480	C	C6-N1-C2	-8.91	116.73	120.30
25	BB	1528	A	C4-C5-C6	-8.91	112.54	117.00
25	BB	1572	A	N7-C8-N9	8.91	118.26	113.80
25	BB	2255	G	N3-C2-N2	-8.91	113.66	119.90
25	BB	2407	A	C5-C6-N6	8.91	130.83	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2719	G	N1-C6-O6	-8.91	114.55	119.90
3	A1	762	U	O4'-C1'-N1	8.91	115.33	108.20
3	A1	1107	C	N3-C2-O2	-8.91	115.66	121.90
3	A1	1161	C	O4'-C4'-C3'	8.91	113.23	106.10
3	A1	1360	A	C5-C6-N6	8.91	130.83	123.70
24	BA	79	G	N3-C4-C5	-8.91	124.14	128.60
25	BB	1064	C	C2-N3-C4	-8.91	115.44	119.90
25	BB	1307	A	C5-N7-C8	-8.91	99.44	103.90
25	BB	1900	A	C4-C5-C6	-8.91	112.54	117.00
25	BB	2048	G	N3-C4-C5	-8.91	124.14	128.60
25	BB	2103	C	N3-C2-O2	-8.91	115.66	121.90
25	BB	2485	G	N9-C4-C5	8.91	108.97	105.40
25	BB	2576	G	N3-C4-N9	8.91	131.35	126.00
25	BB	2603	G	N3-C4-C5	-8.91	124.14	128.60
36	BM	76	ARG	NE-CZ-NH1	8.91	124.76	120.30
3	A1	66	A	C5-C6-N1	8.91	122.16	117.70
3	A1	134	G	C8-N9-C4	-8.91	102.84	106.40
3	A1	144	G	N9-C4-C5	8.91	108.97	105.40
3	A1	974	A	N3-C4-C5	8.91	133.04	126.80
24	BA	76	G	N1-C2-N3	8.91	129.25	123.90
25	BB	797	G	N3-C2-N2	-8.91	113.66	119.90
3	A1	265	G	C5-C6-N1	8.91	115.95	111.50
25	BB	1819	A	C3'-C2'-C1'	8.91	108.63	101.50
3	A1	619	U	C2-N3-C4	-8.91	121.66	127.00
3	A1	852	G	N9-C4-C5	8.91	108.96	105.40
24	BA	24	G	C4-C5-C6	-8.91	113.45	118.80
25	BB	36	G	O4'-C1'-N9	-8.91	101.07	108.20
3	A1	951	G	C8-N9-C4	-8.91	102.84	106.40
25	BB	141	G	C6-N1-C2	-8.91	119.76	125.10
25	BB	801	G	C6-N1-C2	-8.91	119.76	125.10
25	BB	1757	A	C4'-C3'-C2'	-8.91	93.69	102.60
25	BB	1866	A	N1-C6-N6	-8.91	113.26	118.60
25	BB	2162	G	C5-N7-C8	8.91	108.75	104.30
25	BB	2668	G	C4'-C3'-C2'	-8.91	93.69	102.60
3	A1	422	C	C5'-C4'-C3'	-8.90	101.75	116.00
3	A1	649	A	C5-N7-C8	-8.90	99.45	103.90
24	BA	75	G	C2-N3-C4	8.90	116.35	111.90
25	BB	821	A	C5-C6-N1	8.90	122.15	117.70
25	BB	2200	C	O4'-C1'-N1	8.90	115.32	108.20
42	BS	49	ARG	NE-CZ-NH1	8.90	124.75	120.30
25	BB	2893	A	N7-C8-N9	-8.90	109.35	113.80
1	AA	60	C	N3-C4-C5	8.90	125.46	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	741	G	O4'-C1'-N9	8.90	115.32	108.20
3	A1	997	U	N3-C4-O4	-8.90	113.17	119.40
3	A1	1149	C	C5'-C4'-C3'	-8.90	101.76	116.00
3	A1	1353	G	C4'-C3'-C2'	-8.90	93.70	102.60
24	BA	84	G	C4-C5-C6	-8.90	113.46	118.80
25	BB	1319	C	C3'-C2'-C1'	8.90	108.62	101.50
3	A1	1156	G	N3-C2-N2	-8.90	113.67	119.90
24	BA	108	A	N1-C6-N6	-8.90	113.26	118.60
25	BB	179	C	C5'-C4'-O4'	8.90	119.78	109.10
25	BB	208	C	C1'-O4'-C4'	-8.90	102.78	109.90
25	BB	2663	G	C2-N3-C4	8.90	116.35	111.90
25	BB	849	A	C3'-C2'-C1'	8.90	108.62	101.50
25	BB	2411	A	C3'-C2'-C1'	-8.90	94.38	101.50
25	BB	493	G	O4'-C4'-C3'	8.90	113.22	106.10
25	BB	1122	G	N7-C8-N9	8.90	117.55	113.10
25	BB	1478	G	C5-C6-N1	8.90	115.95	111.50
25	BB	2514	U	O4'-C1'-N1	8.90	115.32	108.20
1	AA	50	U	N1-C2-N3	8.90	120.24	114.90
1	AA	75	C	C5'-C4'-C3'	-8.90	101.77	116.00
1	AA	75	C	N1-C1'-C2'	8.90	125.56	114.00
1	AE	59	U	C5-C6-N1	-8.90	118.25	122.70
3	A1	124	C	O4'-C4'-C3'	8.90	113.22	106.10
3	A1	420	U	C3'-C2'-C1'	-8.90	94.38	101.50
3	A1	548	G	C5-C6-N1	8.90	115.95	111.50
25	BB	2708	G	C3'-C2'-C1'	-8.90	94.38	101.50
3	A1	990	C	C5-C4-N4	8.90	126.43	120.20
3	A1	1089	G	O4'-C4'-C3'	8.90	113.22	106.10
24	BA	64	G	N9-C4-C5	8.90	108.96	105.40
25	BB	649	G	N1-C2-N3	8.90	129.24	123.90
25	BB	866	A	C5-C6-N1	8.90	122.15	117.70
25	BB	1858	A	C8-N9-C4	-8.90	102.24	105.80
25	BB	2758	A	C6-N1-C2	-8.90	113.26	118.60
3	A1	197	A	C8-N9-C4	-8.89	102.24	105.80
3	A1	640	A	N1-C2-N3	-8.89	124.85	129.30
24	BA	35	C	N3-C4-N4	-8.89	111.77	118.00
25	BB	931	U	N3-C2-O2	-8.89	115.97	122.20
25	BB	1508	A	N1-C2-N3	-8.89	124.85	129.30
25	BB	2058	A	C3'-C2'-C1'	8.89	108.61	101.50
25	BB	2753	A	C3'-C2'-C1'	8.89	108.61	101.50
24	BA	106	G	N1-C2-N2	-8.89	108.20	116.20
34	BK	68	ARG	NE-CZ-NH2	8.89	124.75	120.30
3	A1	314	C	C5-C6-N1	8.89	125.44	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	584	C	N3-C2-O2	-8.89	115.68	121.90
25	BB	632	A	C3'-C2'-C1'	8.89	108.61	101.50
25	BB	1137	G	C5-C6-O6	8.89	133.93	128.60
25	BB	1212	G	C4-C5-N7	-8.89	107.24	110.80
25	BB	1693	U	O4'-C1'-N1	8.89	115.31	108.20
25	BB	1973	G	C5-C6-N1	8.89	115.94	111.50
25	BB	2444	G	N7-C8-N9	8.89	117.55	113.10
25	BB	2355	G	C6-N1-C2	-8.89	119.77	125.10
25	BB	2629	U	P-O3'-C3'	8.89	130.37	119.70
25	BB	2765	A	N1-C2-N3	8.89	133.75	129.30
25	BB	2860	A	C5-N7-C8	-8.89	99.45	103.90
1	AP	28	C	C4-C5-C6	-8.89	112.95	117.40
3	A1	1197	A	C2-N3-C4	8.89	115.05	110.60
25	BB	422	A	C5-C6-N6	8.89	130.81	123.70
25	BB	1793	C	C5-C6-N1	-8.89	116.56	121.00
3	A1	682	G	C1'-O4'-C4'	-8.89	102.79	109.90
3	A1	1121	U	N3-C2-O2	-8.89	115.98	122.20
3	A1	1306	A	C4-C5-N7	-8.89	106.26	110.70
3	A1	1418	A	N1-C2-N3	-8.89	124.86	129.30
3	A1	1530	G	C1'-O4'-C4'	-8.89	102.79	109.90
25	BB	1027	A	C4-C5-C6	-8.89	112.56	117.00
25	BB	1490	A	N9-C4-C5	8.89	109.36	105.80
25	BB	2308	G	O4'-C1'-N9	8.89	115.31	108.20
25	BB	2834	G	C1'-O4'-C4'	-8.89	102.79	109.90
25	BB	2774	C	N1-C2-N3	8.89	125.42	119.20
1	AP	10	G	N3-C2-N2	-8.89	113.68	119.90
3	A1	742	G	C4'-C3'-C2'	-8.89	93.71	102.60
25	BB	1503	A	N9-C1'-C2'	-8.89	102.22	112.00
25	BB	2278	A	C4-C5-N7	8.89	115.14	110.70
1	AA	38	A	C6-N1-C2	-8.88	113.27	118.60
1	AP	45	G	C3'-C2'-C1'	8.88	108.61	101.50
3	A1	1294	G	N3-C4-C5	-8.88	124.16	128.60
25	BB	1753	G	C5-N7-C8	-8.88	99.86	104.30
25	BB	1864	U	N1-C2-N3	8.88	120.23	114.90
3	A1	974	A	C4-C5-N7	8.88	115.14	110.70
3	A1	1063	C	C5-C6-N1	-8.88	116.56	121.00
25	BB	74	A	O4'-C1'-C2'	-8.88	96.92	105.80
25	BB	2427	C	C6-N1-C2	-8.88	116.75	120.30
25	BB	2721	A	N7-C8-N9	8.88	118.24	113.80
25	BB	2751	G	C4'-C3'-C2'	-8.88	93.72	102.60
3	A1	454	G	C4-C5-N7	-8.88	107.25	110.80
25	BB	1112	G	N9-C4-C5	8.88	108.95	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1157	G	N3-C2-N2	-8.88	113.68	119.90
25	BB	1592	C	O4'-C1'-N1	8.88	115.31	108.20
25	BB	1623	G	N3-C4-C5	-8.88	124.16	128.60
25	BB	1699	G	N3-C4-N9	8.88	131.33	126.00
25	BB	2212	A	N7-C8-N9	-8.88	109.36	113.80
25	BB	1839	G	C5'-C4'-O4'	8.88	119.76	109.10
25	BB	2569	G	C5-C6-N1	8.88	115.94	111.50
3	A1	1409	C	C2-N3-C4	-8.88	115.46	119.90
25	BB	781	A	C8-N9-C4	8.88	109.35	105.80
25	BB	1579	A	C6-C5-N7	8.88	138.51	132.30
24	BA	25	U	C5-C6-N1	-8.88	118.26	122.70
25	BB	203	A	N1-C2-N3	-8.88	124.86	129.30
25	BB	1207	C	N3-C2-O2	-8.88	115.69	121.90
25	BB	2253	G	C5-C6-N1	8.88	115.94	111.50
25	BB	2759	G	N1-C6-O6	-8.88	114.57	119.90
25	BB	2788	C	C2-N3-C4	-8.88	115.46	119.90
25	BB	2800	A	C5-N7-C8	-8.88	99.46	103.90
1	AE	12	U	N1-C2-N3	8.88	120.22	114.90
3	A1	460	A	C6-C5-N7	8.88	138.51	132.30
3	A1	478	A	C5-N7-C8	-8.88	99.46	103.90
3	A1	763	G	N3-C4-N9	8.88	131.32	126.00
25	BB	763	G	N7-C8-N9	8.88	117.54	113.10
25	BB	1553	A	C4-C5-C6	-8.88	112.56	117.00
3	A1	1372	U	C3'-C2'-C1'	8.87	108.60	101.50
25	BB	1236	G	N1-C2-N3	8.87	129.22	123.90
25	BB	2035	G	N9-C4-C5	8.87	108.95	105.40
25	BB	2686	G	N3-C4-N9	8.88	131.32	126.00
1	AE	15	G	C2-N3-C4	8.87	116.34	111.90
3	A1	378	G	N1-C2-N3	8.87	129.22	123.90
3	A1	854	U	C5-C4-O4	-8.87	120.58	125.90
3	A1	768	A	C6-C5-N7	8.87	138.51	132.30
3	A1	1459	G	C5-C6-N1	8.87	115.94	111.50
25	BB	1031	G	N1-C6-O6	-8.87	114.58	119.90
25	BB	2172	U	O4'-C4'-C3'	8.87	113.20	106.10
25	BB	2641	G	C4-C5-N7	-8.87	107.25	110.80
25	BB	1337	G	N3-C4-N9	8.87	131.32	126.00
25	BB	1721	G	C4-C5-C6	-8.87	113.48	118.80
25	BB	2843	G	N7-C8-N9	8.87	117.53	113.10
3	A1	954	G	C5-C6-N1	8.87	115.94	111.50
23	AX	49	PHE	CB-CG-CD2	-8.87	114.59	120.80
25	BB	715	A	N1-C6-N6	-8.87	113.28	118.60
25	BB	1365	A	C2-N3-C4	8.87	115.03	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	182	A	C2-N3-C4	8.87	115.03	110.60
25	BB	268	C	C2-N3-C4	-8.87	115.47	119.90
24	BA	64	G	C2-N3-C4	-8.87	107.47	111.90
25	BB	111	A	C5-N7-C8	-8.87	99.47	103.90
25	BB	659	G	C5-N7-C8	-8.87	99.87	104.30
25	BB	1888	G	C8-N9-C4	-8.87	102.85	106.40
25	BB	2079	U	C1'-O4'-C4'	-8.87	102.81	109.90
25	BB	356	G	N3-C4-C5	8.87	133.03	128.60
24	BA	79	G	C1'-O4'-C4'	-8.86	102.81	109.90
25	BB	248	G	N1-C6-O6	-8.86	114.58	119.90
25	BB	964	C	C5-C6-N1	-8.87	116.57	121.00
25	BB	1276	A	N9-C4-C5	8.87	109.35	105.80
25	BB	1965	C	C2-N3-C4	-8.87	115.47	119.90
25	BB	2613	U	C2-N3-C4	-8.87	121.68	127.00
25	BB	2104	C	C6-N1-C2	-8.86	116.75	120.30
1	AA	21	A	C1'-O4'-C4'	-8.86	102.81	109.90
1	AE	58	A	N9-C4-C5	8.86	109.34	105.80
1	AE	71	G	C4-C5-C6	-8.86	113.48	118.80
3	A1	375	U	N3-C4-O4	-8.86	113.20	119.40
3	A1	413	G	C6-C5-N7	8.86	135.72	130.40
3	A1	500	G	N3-C2-N2	-8.86	113.70	119.90
3	A1	691	G	C3'-C2'-C1'	8.86	108.59	101.50
25	BB	1549	A	N9-C4-C5	8.86	109.34	105.80
3	A1	1032	G	N9-C1'-C2'	-8.86	102.25	112.00
3	A1	1435	G	N7-C8-N9	8.86	117.53	113.10
25	BB	98	G	C5-C6-N1	8.86	115.93	111.50
25	BB	939	G	N7-C8-N9	8.86	117.53	113.10
25	BB	1059	G	N7-C8-N9	8.86	117.53	113.10
25	BB	1496	A	C5-C6-N6	8.86	130.79	123.70
28	BE	64	PHE	CB-CG-CD2	-8.86	114.60	120.80
17	AR	3	TYR	CB-CG-CD1	-8.86	115.68	121.00
25	BB	660	C	C6-N1-C2	-8.86	116.76	120.30
25	BB	1277	G	C6-C5-N7	8.86	135.72	130.40
1	AE	51	G	N3-C2-N2	-8.86	113.70	119.90
3	A1	1479	C	N1-C2-O2	8.86	124.22	118.90
25	BB	795	C	C6-N1-C2	-8.86	116.76	120.30
25	BB	2105	U	N1-C2-O2	8.86	129.00	122.80
25	BB	2180	U	C5-C4-O4	-8.86	120.58	125.90
28	BE	33	ARG	NE-CZ-NH2	-8.86	115.87	120.30
3	A1	408	A	C8-N9-C4	-8.86	102.26	105.80
3	A1	452	A	N9-C4-C5	8.86	109.34	105.80
25	BB	808	G	N1-C6-O6	-8.86	114.59	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1484	C	C5-C6-N1	-8.86	116.57	121.00
25	BB	1028	A	N1-C6-N6	-8.86	113.29	118.60
25	BB	1885	A	C1'-O4'-C4'	-8.86	102.81	109.90
25	BB	2368	C	C6-N1-C2	-8.86	116.76	120.30
49	BZ	105	ARG	NE-CZ-NH1	8.86	124.73	120.30
25	BB	344	A	C2-N3-C4	8.85	115.03	110.60
25	BB	1129	A	C5-C6-N1	8.85	122.13	117.70
25	BB	1192	G	P-O3'-C3'	8.85	130.32	119.70
25	BB	1372	U	C6-N1-C2	-8.85	115.69	121.00
25	BB	2360	G	N9-C4-C5	-8.85	101.86	105.40
1	AA	61	C	N1-C2-O2	8.85	124.21	118.90
23	AX	72	ARG	NE-CZ-NH1	-8.85	115.87	120.30
24	BA	57	A	C5-C6-N1	8.85	122.13	117.70
25	BB	500	G	C5-C6-O6	8.85	133.91	128.60
25	BB	533	G	N1-C2-N3	8.85	129.21	123.90
25	BB	561	G	C5-C6-N1	8.85	115.93	111.50
25	BB	689	A	N1-C6-N6	-8.85	113.29	118.60
25	BB	960	A	N7-C8-N9	8.85	118.23	113.80
25	BB	1414	C	N3-C2-O2	-8.85	115.70	121.90
25	BB	1491	G	N7-C8-N9	8.85	117.53	113.10
25	BB	2659	G	C4-C5-N7	-8.85	107.26	110.80
25	BB	1537	G	O4'-C1'-N9	-8.85	101.12	108.20
25	BB	2869	G	N3-C4-N9	8.85	131.31	126.00
25	BB	231	A	N9-C4-C5	8.85	109.34	105.80
45	BV	35	ARG	CD-NE-CZ	8.85	135.99	123.60
25	BB	1760	C	N3-C4-N4	-8.85	111.81	118.00
25	BB	1814	G	N1-C2-N3	8.85	129.21	123.90
25	BB	1852	U	C5-C6-N1	-8.85	118.28	122.70
25	BB	1850	G	N3-C4-N9	8.85	131.31	126.00
3	A1	186	C	N3-C2-O2	-8.85	115.71	121.90
3	A1	255	G	N3-C4-C5	-8.85	124.18	128.60
25	BB	856	G	N3-C4-C5	-8.85	124.18	128.60
25	BB	91	A	C5-C6-N1	8.85	122.12	117.70
25	BB	2103	C	O4'-C1'-N1	8.85	115.28	108.20
25	BB	2125	G	C2-N3-C4	8.85	116.32	111.90
25	BB	2135	A	N9-C4-C5	-8.85	102.26	105.80
3	A1	713	G	N9-C4-C5	-8.84	101.86	105.40
3	A1	1170	A	N7-C8-N9	8.84	118.22	113.80
25	BB	1330	C	C2-N3-C4	-8.84	115.48	119.90
25	BB	2433	A	C6-C5-N7	8.84	138.49	132.30
25	BB	2503	A	C5-C6-N6	8.84	130.78	123.70
43	BT	25	THR	CA-CB-CG2	-8.84	100.02	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AE	4	G	O4'-C1'-N9	8.84	115.27	108.20
25	BB	246	C	N3-C2-O2	-8.84	115.71	121.90
25	BB	1025	G	C6-N1-C2	-8.84	119.80	125.10
3	A1	127	G	N7-C8-N9	8.84	117.52	113.10
3	A1	737	C	C6-N1-C2	-8.84	116.77	120.30
25	BB	333	G	C3'-C2'-C1'	8.84	108.57	101.50
25	BB	858	G	C5-C6-O6	8.84	133.90	128.60
25	BB	1082	U	C4-C5-C6	8.84	125.00	119.70
25	BB	1143	A	C5-C6-N1	8.84	122.12	117.70
25	BB	1474	U	N1-C2-N3	8.84	120.20	114.90
25	BB	2281	A	N9-C4-C5	8.84	109.34	105.80
25	BB	1199	U	N3-C4-O4	8.84	125.59	119.40
3	A1	377	G	C2-N3-C4	8.84	116.32	111.90
3	A1	1034	G	O4'-C1'-N9	8.84	115.27	108.20
3	A1	1383	C	N1-C2-O2	8.84	124.20	118.90
3	A1	1431	A	C2-N3-C4	8.84	115.02	110.60
3	A1	1371	G	C2-N3-C4	8.84	116.32	111.90
25	BB	3	U	C5-C6-N1	-8.84	118.28	122.70
25	BB	588	U	N3-C2-O2	-8.84	116.02	122.20
25	BB	1390	U	N1-C2-N3	8.84	120.20	114.90
25	BB	1870	C	N3-C4-C5	8.84	125.44	121.90
25	BB	2117	A	C5-C6-N1	8.84	122.12	117.70
34	BK	80	ARG	NH1-CZ-NH2	-8.84	109.68	119.40
3	A1	255	G	N9-C4-C5	8.83	108.93	105.40
3	A1	568	G	C1'-O4'-C4'	-8.83	102.83	109.90
25	BB	2886	A	P-O3'-C3'	8.83	130.30	119.70
1	AA	27	C	N3-C2-O2	-8.83	115.72	121.90
3	A1	630	A	C2-N3-C4	8.83	115.02	110.60
3	A1	1128	C	C6-N1-C2	-8.83	116.77	120.30
24	BA	9	G	C5-N7-C8	-8.83	99.88	104.30
25	BB	25	U	O4'-C1'-N1	8.83	115.27	108.20
25	BB	50	U	N1-C2-N3	8.83	120.20	114.90
25	BB	180	G	C6-N1-C2	-8.83	119.80	125.10
25	BB	576	U	N3-C4-O4	-8.83	113.22	119.40
51	B2	127	TYR	CB-CG-CD1	-8.83	115.70	121.00
25	BB	288	U	N1-C2-N3	8.83	120.20	114.90
25	BB	697	G	C6-C5-N7	-8.83	125.10	130.40
25	BB	939	G	N3-C2-N2	-8.83	113.72	119.90
25	BB	1126	A	C2-N3-C4	8.83	115.02	110.60
25	BB	2162	G	N3-C4-C5	-8.83	124.18	128.60
3	A1	654	G	C1'-O4'-C4'	8.83	116.96	109.90
3	A1	537	G	N3-C4-N9	8.83	131.30	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	981	U	N3-C2-O2	-8.83	116.02	122.20
3	A1	1122	U	C4'-C3'-C2'	-8.83	93.77	102.60
22	AW	71	ILE	CA-CB-CG1	8.83	127.78	111.00
25	BB	76	C	N1-C2-N3	8.83	125.38	119.20
25	BB	406	G	N3-C4-C5	-8.83	124.19	128.60
25	BB	2032	G	C6-C5-N7	8.83	135.70	130.40
3	A1	137	U	C6-N1-C2	-8.83	115.70	121.00
25	BB	1437	C	N1-C2-O2	8.83	124.20	118.90
25	BB	1722	A	C6-C5-N7	8.83	138.48	132.30
25	BB	1837	C	C5-C6-N1	-8.83	116.59	121.00
25	BB	257	C	C2-N3-C4	-8.83	115.49	119.90
25	BB	1629	U	O4'-C4'-C3'	8.83	113.16	106.10
3	A1	423	G	N3-C4-N9	8.82	131.29	126.00
3	A1	643	C	C3'-C2'-C1'	-8.82	94.44	101.50
3	A1	920	U	N1-C2-N3	8.82	120.19	114.90
3	A1	1333	A	N1-C2-N3	-8.82	124.89	129.30
25	BB	515	A	N1-C2-N3	-8.82	124.89	129.30
25	BB	669	G	N3-C4-C5	-8.82	124.19	128.60
25	BB	726	G	N3-C4-C5	-8.82	124.19	128.60
25	BB	1600	C	N3-C4-C5	-8.82	118.37	121.90
25	BB	2450	A	C5-N7-C8	-8.82	99.49	103.90
3	A1	408	A	C4-C5-C6	-8.82	112.59	117.00
3	A1	892	A	C5-C6-N1	8.82	122.11	117.70
3	A1	1305	G	C6-N1-C2	-8.82	119.81	125.10
8	AG	40	ARG	NE-CZ-NH1	8.82	124.71	120.30
25	BB	1075	C	N3-C4-C5	8.82	125.43	121.90
3	A1	981	U	C6-N1-C2	-8.82	115.71	121.00
25	BB	139	U	N1-C2-O2	8.82	128.97	122.80
25	BB	193	U	O4'-C1'-N1	-8.82	101.14	108.20
25	BB	1651	G	N9-C4-C5	8.82	108.93	105.40
25	BB	2392	A	N1-C6-N6	-8.82	113.31	118.60
25	BB	2619	C	N3-C4-C5	8.82	125.43	121.90
25	BB	2631	G	N1-C6-O6	-8.82	114.61	119.90
37	BN	119	VAL	CA-CB-CG1	8.82	124.13	110.90
25	BB	2735	G	C5-C6-N1	8.82	115.91	111.50
25	BB	2755	C	N3-C4-C5	8.82	125.43	121.90
26	BC	19	ARG	NH1-CZ-NH2	-8.82	109.70	119.40
50	B1	131	THR	CA-CB-CG2	8.82	124.75	112.40
3	A1	737	C	N1-C2-O2	8.82	124.19	118.90
3	A1	851	G	N3-C4-C5	-8.82	124.19	128.60
3	A1	1350	A	P-O3'-C3'	8.82	130.28	119.70
25	BB	291	G	N3-C4-C5	-8.82	124.19	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	457	A	C4-C5-C6	-8.82	112.59	117.00
25	BB	461	C	C2-N3-C4	-8.82	115.49	119.90
25	BB	2132	U	N3-C2-O2	-8.82	116.03	122.20
35	BL	11	ARG	NE-CZ-NH2	8.81	124.71	120.30
3	A1	225	C	N3-C2-O2	-8.81	115.73	121.90
3	A1	892	A	C5-N7-C8	-8.81	99.49	103.90
3	A1	1004	A	C5-N7-C8	-8.81	99.49	103.90
3	A1	1139	G	N9-C4-C5	-8.81	101.87	105.40
25	BB	460	A	C5-C6-N1	8.81	122.11	117.70
25	BB	2345	G	C5-N7-C8	8.81	108.71	104.30
3	A1	873	A	C8-N9-C4	8.81	109.33	105.80
25	BB	1943	U	C2-N3-C4	-8.81	121.71	127.00
3	A1	108	G	N3-C4-C5	-8.81	124.19	128.60
3	A1	502	A	C6-N1-C2	-8.81	113.31	118.60
3	A1	718	A	C5-C6-N6	8.81	130.75	123.70
3	A1	1391	U	N3-C4-O4	8.81	125.57	119.40
25	BB	142	A	C4-C5-C6	-8.81	112.59	117.00
25	BB	214	G	N3-C2-N2	-8.81	113.73	119.90
25	BB	737	C	C2-N3-C4	-8.81	115.49	119.90
25	BB	1252	G	C6-N1-C2	-8.81	119.81	125.10
25	BB	1529	G	N1-C6-O6	-8.81	114.61	119.90
25	BB	2013	A	C5-C6-N6	8.81	130.75	123.70
25	BB	2333	A	C6-N1-C2	-8.81	113.31	118.60
3	A1	394	G	N3-C4-C5	-8.81	124.19	128.60
3	A1	304	U	C4-C5-C6	8.81	124.98	119.70
3	A1	1051	C	P-O3'-C3'	8.81	130.27	119.70
3	A1	1052	U	O4'-C1'-N1	8.81	115.25	108.20
3	A1	1398	A	C5-C6-N6	8.81	130.75	123.70
5	AC	36	ARG	NE-CZ-NH2	8.81	124.70	120.30
3	A1	1103	C	N1-C2-O2	8.81	124.18	118.90
24	BA	52	A	C8-N9-C4	-8.81	102.28	105.80
25	BB	324	A	C5-N7-C8	-8.81	99.50	103.90
25	BB	1471	G	C2-N3-C4	-8.81	107.50	111.90
25	BB	1832	C	N3-C4-N4	-8.81	111.83	118.00
3	A1	322	C	C2-N3-C4	-8.80	115.50	119.90
3	A1	521	G	N1-C2-N3	8.80	129.18	123.90
3	A1	1005	A	N1-C6-N6	-8.80	113.32	118.60
3	A1	1117	A	C6-N1-C2	-8.80	113.32	118.60
3	A1	1232	U	C5-C4-O4	-8.80	120.62	125.90
3	A1	1357	A	N1-C6-N6	-8.80	113.32	118.60
25	BB	402	A	C5-C6-N1	8.80	122.10	117.70
25	BB	717	C	N3-C2-O2	-8.80	115.74	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1421	G	N3-C4-C5	-8.80	124.20	128.60
25	BB	1435	G	O4'-C4'-C3'	8.80	113.14	106.10
25	BB	1493	C	N3-C2-O2	-8.80	115.74	121.90
25	BB	2592	G	C5-C6-N1	8.80	115.90	111.50
25	BB	2747	G	C6-C5-N7	-8.80	125.12	130.40
3	A1	584	G	C5-C6-N1	8.80	115.90	111.50
25	BB	1332	G	C4-C5-N7	8.80	114.32	110.80
25	BB	2679	A	N3-C4-C5	8.80	132.96	126.80
25	BB	90	U	O4'-C1'-N1	8.80	115.24	108.20
25	BB	562	U	N3-C4-O4	-8.80	113.24	119.40
25	BB	722	A	C6-C5-N7	8.80	138.46	132.30
3	A1	629	A	C4-C5-C6	-8.80	112.60	117.00
3	A1	1217	C	N3-C4-C5	8.80	125.42	121.90
25	BB	297	G	N9-C4-C5	8.80	108.92	105.40
25	BB	564	C	C4-C5-C6	-8.80	113.00	117.40
25	BB	770	G	C6-N1-C2	-8.80	119.82	125.10
25	BB	937	C	N3-C4-N4	-8.80	111.84	118.00
25	BB	1082	U	C5-C6-N1	-8.80	118.30	122.70
25	BB	1147	A	C4-C5-C6	-8.80	112.60	117.00
25	BB	1149	G	N7-C8-N9	-8.80	108.70	113.10
25	BB	1403	A	N1-C6-N6	-8.80	113.32	118.60
25	BB	1721	G	N1-C6-O6	-8.80	114.62	119.90
25	BB	2720	U	C5-C6-N1	-8.80	118.30	122.70
54	B5	37	PHE	CB-CG-CD1	-8.80	114.64	120.80
3	A1	841	C	C1'-O4'-C4'	-8.80	102.86	109.90
1	AA	55	U	N3-C4-O4	-8.79	113.24	119.40
3	A1	1215	G	C5-C6-N1	8.79	115.90	111.50
3	A1	1284	C	O4'-C1'-N1	-8.80	101.16	108.20
3	A1	1525	G	N1-C2-N3	8.80	129.18	123.90
25	BB	866	A	O4'-C1'-N9	8.79	115.24	108.20
25	BB	1016	G	N1-C6-O6	-8.79	114.62	119.90
25	BB	1665	A	N1-C6-N6	-8.79	113.32	118.60
25	BB	2285	C	N3-C2-O2	-8.79	115.74	121.90
25	BB	2330	G	N3-C4-N9	8.79	131.28	126.00
25	BB	2842	G	O4'-C1'-N9	8.80	115.24	108.20
27	BD	30	ARG	NE-CZ-NH2	-8.80	115.90	120.30
1	AP	20	G	O4'-C4'-C3'	8.79	113.13	106.10
1	AP	64	A	C5-C6-N1	8.79	122.10	117.70
1	AE	14	A	C5-N7-C8	-8.79	99.50	103.90
3	A1	62	U	C4-C5-C6	8.79	124.98	119.70
3	A1	93	U	C4-C5-C6	8.79	124.98	119.70
3	A1	173	U	P-O3'-C3'	8.79	130.25	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	554	A	C6-N1-C2	-8.79	113.33	118.60
3	A1	851	G	C8-N9-C4	-8.79	102.88	106.40
19	AT	86	ARG	NE-CZ-NH2	8.79	124.69	120.30
24	BA	105	G	C5'-C4'-O4'	8.79	119.65	109.10
25	BB	731	C	N3-C4-C5	8.79	125.42	121.90
1	AA	68	U	N1-C2-N3	8.79	120.17	114.90
3	A1	174	A	C5-C6-N1	8.79	122.09	117.70
3	A1	867	G	C3'-C2'-C1'	-8.79	94.47	101.50
3	A1	897	C	N3-C4-N4	-8.79	111.85	118.00
3	A1	1459	G	C5-N7-C8	-8.79	99.91	104.30
3	A1	1459	G	N9-C1'-C2'	-8.79	102.33	112.00
14	AN	9	ARG	NE-CZ-NH2	-8.79	115.91	120.30
25	BB	1	G	C8-N9-C4	-8.79	102.88	106.40
25	BB	917	A	C5-C6-N1	8.79	122.09	117.70
25	BB	1187	G	C6-N1-C2	-8.79	119.83	125.10
25	BB	1938	A	N7-C8-N9	8.79	118.19	113.80
25	BB	2782	G	N1-C2-N3	8.79	129.17	123.90
3	A1	36	C	N3-C4-C5	8.79	125.42	121.90
8	AG	89	ARG	NH1-CZ-NH2	-8.79	109.73	119.40
25	BB	192	C	N1-C2-O2	8.79	124.17	118.90
25	BB	1828	G	N9-C4-C5	8.79	108.92	105.40
25	BB	2759	G	N1-C2-N3	8.79	129.17	123.90
25	BB	2820	A	C6-N1-C2	-8.79	113.33	118.60
3	A1	99	C	C6-N1-C2	-8.79	116.79	120.30
25	BB	2446	G	C5-C6-N1	8.79	115.89	111.50
3	A1	323	U	C3'-C2'-C1'	-8.78	94.47	101.50
3	A1	1274	A	O4'-C1'-N9	8.78	115.23	108.20
25	BB	364	C	N1-C2-O2	8.78	124.17	118.90
25	BB	2380	C	C4'-C3'-C2'	-8.78	93.82	102.60
3	A1	60	A	C3'-C2'-C1'	-8.78	94.47	101.50
3	A1	1258	G	N7-C8-N9	8.78	117.49	113.10
25	BB	1035	U	O4'-C1'-N1	8.78	115.23	108.20
3	A1	499	A	C6-N1-C2	-8.78	113.33	118.60
3	A1	625	U	O5'-P-OP1	-8.78	97.80	105.70
8	AG	80	ARG	NE-CZ-NH1	8.78	124.69	120.30
25	BB	202	U	O5'-P-OP2	-8.78	97.80	105.70
3	A1	1133	G	C1'-O4'-C4'	-8.78	102.88	109.90
24	BA	91	C	C6-N1-C2	-8.78	116.79	120.30
25	BB	888	C	N3-C4-C5	8.78	125.41	121.90
25	BB	962	G	O4'-C4'-C3'	8.78	113.13	106.10
25	BB	2120	G	N3-C4-N9	8.78	131.27	126.00
2	AM	19	U	C2-N3-C4	-8.78	121.73	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	26	A	C8-N9-C4	-8.78	102.29	105.80
3	A1	64	G	N1-C2-N3	8.78	129.17	123.90
25	BB	2154	A	C5-N7-C8	-8.78	99.51	103.90
3	A1	525	C	C5-C4-N4	8.78	126.34	120.20
3	A1	909	A	C5-C6-N1	8.78	122.09	117.70
3	A1	1018	G	N3-C4-C5	8.78	132.99	128.60
3	A1	1083	U	N3-C2-O2	-8.78	116.06	122.20
3	A1	1101	A	C5-C6-N6	8.78	130.72	123.70
25	BB	507	A	C5'-C4'-O4'	8.78	119.64	109.10
25	BB	861	A	P-O3'-C3'	8.78	130.23	119.70
25	BB	2716	C	C1'-O4'-C4'	-8.78	102.88	109.90
25	BB	2875	C	C2-N3-C4	-8.78	115.51	119.90
3	A1	197	A	C5-C6-N1	8.78	122.09	117.70
3	A1	552	U	C6-N1-C2	-8.78	115.73	121.00
3	A1	1149	C	N3-C2-O2	-8.78	115.76	121.90
3	A1	1244	G	C4-C5-N7	-8.78	107.29	110.80
25	BB	633	A	C5-N7-C8	-8.78	99.51	103.90
25	BB	1214	A	N3-C4-N9	-8.78	120.38	127.40
25	BB	1879	C	C5-C6-N1	-8.78	116.61	121.00
25	BB	216	A	C6-C5-N7	8.78	138.44	132.30
25	BB	810	U	C1'-O4'-C4'	-8.78	102.88	109.90
1	AE	55	U	C5-C4-O4	-8.77	120.64	125.90
3	A1	488	C	N1-C2-O2	8.77	124.16	118.90
3	A1	188	C	N3-C4-C5	8.77	125.41	121.90
25	BB	1059	G	N3-C2-N2	-8.77	113.76	119.90
25	BB	884	U	N1-C1'-C2'	-8.77	102.35	112.00
25	BB	1084	A	C3'-C2'-C1'	8.77	108.52	101.50
25	BB	1258	U	C4'-C3'-C2'	-8.77	93.83	102.60
25	BB	1342	A	C4-C5-C6	-8.77	112.61	117.00
25	BB	1565	C	N1-C2-O2	8.77	124.16	118.90
25	BB	1737	G	N9-C4-C5	8.77	108.91	105.40
3	A1	248	C	N3-C4-C5	8.77	125.41	121.90
25	BB	125	A	P-O3'-C3'	8.77	130.22	119.70
25	BB	2278	A	C5-C6-N1	8.77	122.08	117.70
25	BB	2438	U	C5-C6-N1	-8.77	118.31	122.70
3	A1	115	G	C5-N7-C8	-8.77	99.92	104.30
3	A1	557	G	N9-C4-C5	8.77	108.91	105.40
3	A1	642	A	C2-N3-C4	8.77	114.98	110.60
3	A1	1085	U	C4-C5-C6	8.77	124.96	119.70
3	A1	1383	C	C2-N3-C4	-8.77	115.52	119.90
25	BB	555	G	O4'-C1'-N9	-8.77	101.19	108.20
25	BB	1017	G	N3-C4-C5	-8.77	124.22	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1091	G	C3'-C2'-C1'	8.77	108.52	101.50
25	BB	1110	G	C4-C5-N7	-8.77	107.29	110.80
25	BB	1199	U	N3-C2-O2	-8.77	116.06	122.20
25	BB	1556	C	C3'-C2'-C1'	8.77	108.52	101.50
25	BB	1265	A	N7-C8-N9	8.77	118.18	113.80
25	BB	2184	A	N9-C4-C5	-8.77	102.29	105.80
25	BB	2649	C	N3-C2-O2	-8.77	115.76	121.90
3	A1	704	A	C4-C5-C6	-8.77	112.62	117.00
3	A1	1069	C	C2-N3-C4	-8.77	115.52	119.90
10	AI	5	ARG	NE-CZ-NH1	8.77	124.68	120.30
3	A1	567	G	C5-N7-C8	-8.77	99.92	104.30
3	A1	766	A	C4-C5-N7	-8.77	106.32	110.70
25	BB	42	A	C5-N7-C8	-8.77	99.52	103.90
25	BB	566	U	N3-C4-C5	-8.77	109.34	114.60
25	BB	796	C	N3-C2-O2	-8.77	115.76	121.90
25	BB	1783	A	N7-C8-N9	-8.77	109.42	113.80
25	BB	2077	A	C2-N3-C4	8.77	114.98	110.60
25	BB	405	U	C6-N1-C2	-8.77	115.74	121.00
25	BB	1579	A	N1-C6-N6	-8.77	113.34	118.60
25	BB	1925	C	O4'-C1'-N1	8.77	115.21	108.20
25	BB	2230	G	C6-N1-C2	-8.77	119.84	125.10
1	AA	57	G	N9-C4-C5	8.76	108.91	105.40
3	A1	651	C	N1-C2-O2	8.76	124.16	118.90
3	A1	1230	C	C2-N3-C4	-8.76	115.52	119.90
3	A1	1292	G	N3-C4-N9	8.76	131.26	126.00
24	BA	3	C	C6-N1-C2	-8.76	116.80	120.30
25	BB	17	G	N3-C4-N9	8.76	131.26	126.00
25	BB	78	U	C5-C4-O4	-8.76	120.64	125.90
25	BB	100	U	N1-C2-N3	8.76	120.16	114.90
25	BB	401	A	N7-C8-N9	8.76	118.18	113.80
25	BB	932	U	N1-C2-N3	8.76	120.16	114.90
25	BB	1084	A	C5-C6-N6	8.76	130.71	123.70
25	BB	1700	A	C6-N1-C2	-8.76	113.34	118.60
25	BB	2194	U	C3'-C2'-C1'	8.76	108.51	101.50
25	BB	2879	A	C5-C6-N1	8.76	122.08	117.70
25	BB	1536	C	N3-C4-C5	8.76	125.41	121.90
25	BB	1680	U	N3-C2-O2	-8.76	116.07	122.20
49	BZ	98	ARG	NE-CZ-NH1	8.76	124.68	120.30
3	A1	94	G	C6-N1-C2	-8.76	119.84	125.10
3	A1	728	A	C5-C6-N6	8.76	130.71	123.70
3	A1	1267	C	N3-C4-N4	-8.76	111.87	118.00
25	BB	127	A	C6-N1-C2	-8.76	113.34	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	278	A	C5-C6-N1	8.76	122.08	117.70
25	BB	742	A	N1-C2-N3	-8.76	124.92	129.30
25	BB	1188	U	C4-C5-C6	8.76	124.96	119.70
25	BB	1463	C	C2-N3-C4	-8.76	115.52	119.90
25	BB	1654	A	C8-N9-C4	-8.76	102.30	105.80
25	BB	2366	A	C5-C6-N1	8.76	122.08	117.70
25	BB	2532	G	O4'-C1'-N9	8.76	115.21	108.20
3	A1	49	U	C3'-C2'-C1'	8.76	108.51	101.50
3	A1	1309	G	C6-C5-N7	8.76	135.66	130.40
3	A1	232	G	C5-N7-C8	-8.76	99.92	104.30
3	A1	321	A	N7-C8-N9	-8.76	109.42	113.80
3	A1	333	U	N1-C2-N3	8.76	120.15	114.90
3	A1	944	G	C1'-O4'-C4'	-8.76	102.89	109.90
25	BB	2252	G	C5-C6-O6	8.76	133.85	128.60
25	BB	2328	A	C2-N3-C4	8.76	114.98	110.60
25	BB	225	C	C1'-O4'-C4'	8.76	116.90	109.90
25	BB	813	U	N3-C4-O4	8.76	125.53	119.40
25	BB	1243	C	N1-C2-N3	8.76	125.33	119.20
25	BB	1953	A	N9-C4-C5	-8.76	102.30	105.80
25	BB	2343	U	N1-C2-N3	8.76	120.15	114.90
25	BB	2664	G	N3-C4-C5	-8.76	124.22	128.60
25	BB	2773	C	C5-C4-N4	8.76	126.33	120.20
3	A1	223	A	O4'-C4'-C3'	8.75	113.10	106.10
3	A1	412	A	C6-C5-N7	8.75	138.43	132.30
25	BB	2674	G	C6-N1-C2	-8.75	119.85	125.10
3	A1	439	U	N1-C2-N3	8.75	120.15	114.90
3	A1	476	U	N1-C2-N3	8.75	120.15	114.90
3	A1	914	A	N3-C4-C5	8.75	132.93	126.80
24	BA	115	A	C5-C6-N1	8.75	122.08	117.70
25	BB	848	C	C4'-C3'-C2'	-8.75	93.85	102.60
25	BB	870	U	N1-C2-N3	8.75	120.15	114.90
25	BB	1223	G	C6-C5-N7	8.75	135.65	130.40
25	BB	2680	U	C1'-O4'-C4'	8.75	116.90	109.90
1	AA	13	C	O4'-C1'-N1	8.75	115.20	108.20
3	A1	223	A	C4-C5-C6	-8.75	112.62	117.00
3	A1	355	C	N3-C2-O2	-8.75	115.78	121.90
25	BB	444	C	C1'-O4'-C4'	-8.75	102.90	109.90
3	A1	352	C	C4-C5-C6	8.75	121.77	117.40
3	A1	700	G	N3-C4-N9	8.75	131.25	126.00
25	BB	575	A	C5-C6-N6	8.75	130.70	123.70
25	BB	98	G	C8-N9-C4	8.75	109.90	106.40
25	BB	141	G	C5-C6-O6	8.75	133.85	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	762	U	N3-C4-C5	-8.75	109.35	114.60
25	BB	1313	U	C5-C6-N1	-8.75	118.33	122.70
25	BB	1792	G	C6-N1-C2	-8.75	119.85	125.10
25	BB	2056	G	N3-C2-N2	-8.75	113.78	119.90
25	BB	2425	A	C5-N7-C8	-8.75	99.53	103.90
25	BB	2586	U	C5-C6-N1	-8.75	118.33	122.70
25	BB	2846	G	C5-N7-C8	8.75	108.67	104.30
3	A1	748	G	C5-C6-N1	8.75	115.87	111.50
25	BB	465	G	C5-C6-N1	8.75	115.87	111.50
25	BB	2144	G	C4-C5-C6	-8.75	113.55	118.80
3	A1	748	G	N1-C6-O6	-8.75	114.65	119.90
3	A1	1425	U	C5'-C4'-O4'	8.75	119.59	109.10
25	BB	1583	A	C4-C5-C6	-8.75	112.63	117.00
25	BB	1767	G	N1-C6-O6	-8.75	114.65	119.90
25	BB	2067	G	N1-C2-N3	-8.75	118.65	123.90
25	BB	2242	G	N1-C6-O6	-8.75	114.65	119.90
3	A1	188	C	C6-N1-C2	-8.74	116.80	120.30
3	A1	924	C	C6-N1-C2	8.74	123.80	120.30
3	A1	1032	G	C2-N3-C4	-8.74	107.53	111.90
3	A1	1149	C	C5-C4-N4	-8.74	114.08	120.20
25	BB	690	G	C1'-O4'-C4'	-8.74	102.90	109.90
25	BB	925	A	C4-C5-C6	-8.74	112.63	117.00
25	BB	1424	G	C5-C6-N1	8.74	115.87	111.50
25	BB	1755	A	N1-C6-N6	-8.74	113.35	118.60
25	BB	1794	A	C5-C6-N6	8.74	130.70	123.70
25	BB	2809	A	C1'-O4'-C4'	-8.74	102.90	109.90
25	BB	913	U	N3-C2-O2	-8.74	116.08	122.20
25	BB	951	C	N1-C2-N3	8.74	125.32	119.20
25	BB	1213	A	C5-C6-N6	8.74	130.69	123.70
25	BB	1914	C	N3-C4-C5	8.74	125.40	121.90
25	BB	2429	G	C8-N9-C4	-8.74	102.90	106.40
25	BB	2458	G	C4-C5-N7	8.74	114.30	110.80
1	AP	9	A	C5-N7-C8	-8.74	99.53	103.90
3	A1	93	U	C5-C6-N1	-8.74	118.33	122.70
3	A1	752	G	N1-C2-N3	8.74	129.15	123.90
3	A1	215	C	C4-C5-C6	8.74	121.77	117.40
3	A1	1504	G	N1-C2-N2	8.74	124.07	116.20
25	BB	37	C	P-O3'-C3'	8.74	130.19	119.70
25	BB	429	A	C6-C5-N7	8.74	138.42	132.30
25	BB	799	G	C5-C6-N1	8.74	115.87	111.50
25	BB	1997	C	C6-N1-C2	-8.74	116.80	120.30
25	BB	2777	G	C6-N1-C2	-8.74	119.86	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2869	G	C2-N3-C4	8.74	116.27	111.90
3	A1	1101	A	C4-C5-C6	-8.74	112.63	117.00
3	A1	1433	A	C5-C6-N6	8.74	130.69	123.70
1	AP	69	U	N1-C2-N3	8.74	120.14	114.90
3	A1	33	A	C2-N3-C4	8.74	114.97	110.60
3	A1	152	A	C6-N1-C2	-8.74	113.36	118.60
3	A1	1303	C	C6-N1-C2	-8.74	116.81	120.30
25	BB	1000	A	C5-C6-N6	8.74	130.69	123.70
25	BB	340	A	C5-C6-N1	8.74	122.07	117.70
25	BB	529	A	C5-C6-N6	8.74	130.69	123.70
25	BB	1013	C	N1-C1'-C2'	-8.74	102.39	112.00
25	BB	1022	G	C8-N9-C4	-8.74	102.91	106.40
25	BB	1706	C	N3-C2-O2	-8.74	115.78	121.90
25	BB	2282	G	N3-C2-N2	-8.74	113.78	119.90
25	BB	2361	G	C5-C6-N1	8.74	115.87	111.50
25	BB	2768	U	O4'-C1'-N1	8.74	115.19	108.20
3	A1	184	G	C5-C6-O6	8.73	133.84	128.60
3	A1	665	A	C6-C5-N7	8.73	138.41	132.30
3	A1	795	C	C2-N3-C4	-8.73	115.53	119.90
3	A1	933	G	N3-C4-N9	-8.73	120.76	126.00
3	A1	1015	G	C4-C5-C6	-8.73	113.56	118.80
3	A1	1513	A	C5-C6-N1	8.73	122.07	117.70
16	AQ	20	ARG	NH1-CZ-NH2	-8.73	109.79	119.40
25	BB	1508	A	C4-C5-N7	8.73	115.07	110.70
25	BB	2360	G	C5-C6-O6	8.73	133.84	128.60
25	BB	2320	U	N3-C2-O2	-8.73	116.09	122.20
25	BB	2465	C	N3-C4-N4	-8.73	111.89	118.00
25	BB	2848	G	O4'-C1'-N9	8.73	115.19	108.20
38	BO	87	GLU	OE1-CD-OE2	-8.73	112.82	123.30
3	A1	910	C	N1-C2-O2	8.73	124.14	118.90
3	A1	937	A	C4-C5-C6	-8.73	112.63	117.00
24	BA	28	C	N3-C4-C5	8.73	125.39	121.90
25	BB	1508	A	C5-N7-C8	-8.73	99.53	103.90
25	BB	1526	C	N3-C4-C5	8.73	125.39	121.90
25	BB	2241	A	N1-C2-N3	-8.73	124.93	129.30
25	BB	2770	G	N1-C6-O6	-8.73	114.66	119.90
25	BB	108	G	N3-C4-N9	8.73	131.24	126.00
25	BB	859	G	N7-C8-N9	8.73	117.47	113.10
25	BB	1404	C	C5-C6-N1	-8.73	116.64	121.00
25	BB	2409	G	N1-C6-O6	-8.73	114.66	119.90
25	BB	2416	C	C1'-O4'-C4'	8.73	116.89	109.90
3	A1	950	U	C6-N1-C2	-8.73	115.76	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	480	A	C5-C6-N6	8.73	130.68	123.70
25	BB	498	G	C2-N3-C4	8.73	116.26	111.90
25	BB	752	A	C5-C6-N1	8.73	122.06	117.70
25	BB	1482	G	N7-C8-N9	8.73	117.46	113.10
25	BB	1568	G	N1-C6-O6	-8.73	114.66	119.90
3	A1	492	C	C5-C6-N1	-8.73	116.64	121.00
25	BB	53	A	O4'-C1'-N9	8.73	115.18	108.20
25	BB	971	G	N3-C2-N2	-8.73	113.79	119.90
25	BB	1207	C	C5-C6-N1	-8.73	116.64	121.00
25	BB	2808	G	N1-C6-O6	-8.73	114.66	119.90
2	AM	1	U	N1-C2-N3	8.72	120.13	114.90
25	BB	2049	G	C8-N9-C4	-8.72	102.91	106.40
3	A1	56	U	C6-N1-C2	-8.72	115.77	121.00
3	A1	515	G	N9-C4-C5	-8.72	101.91	105.40
3	A1	720	C	C2-N3-C4	-8.72	115.54	119.90
25	BB	551	G	C4-C5-C6	-8.72	113.57	118.80
25	BB	584	C	N3-C4-C5	8.72	125.39	121.90
25	BB	1203	U	C5'-C4'-O4'	8.72	119.57	109.10
25	BB	1699	G	N3-C4-C5	-8.72	124.24	128.60
25	BB	1753	G	C5-C6-N1	8.72	115.86	111.50
25	BB	1774	C	O4'-C1'-C2'	-8.72	97.08	105.80
25	BB	2038	G	N7-C8-N9	8.72	117.46	113.10
25	BB	1929	G	N9-C4-C5	8.72	108.89	105.40
25	BB	2327	A	P-O3'-C3'	8.72	130.17	119.70
25	BB	2576	G	C6-N1-C2	-8.72	119.87	125.10
25	BB	2835	A	C4-C5-C6	-8.72	112.64	117.00
3	A1	256	U	N3-C2-O2	-8.72	116.10	122.20
3	A1	388	G	C8-N9-C4	-8.72	102.91	106.40
3	A1	1382	C	O4'-C1'-N1	-8.72	101.22	108.20
8	AG	62	ARG	NE-CZ-NH1	8.72	124.66	120.30
25	BB	614	A	O4'-C1'-N9	8.72	115.18	108.20
25	BB	1529	G	C4-C5-N7	8.72	114.29	110.80
25	BB	863	A	C4-C5-C6	-8.72	112.64	117.00
25	BB	881	G	C2-N3-C4	-8.72	107.54	111.90
25	BB	1575	C	C1'-O4'-C4'	-8.72	102.92	109.90
25	BB	2177	C	N3-C2-O2	-8.72	115.80	121.90
25	BB	2570	G	N1-C6-O6	-8.72	114.67	119.90
25	BB	2680	U	N1-C2-O2	8.72	128.90	122.80
1	AE	49	C	O4'-C1'-N1	8.72	115.17	108.20
3	A1	781	A	O4'-C1'-N9	8.72	115.17	108.20
3	A1	1120	C	C6-N1-C2	-8.72	116.81	120.30
24	BA	91	C	N3-C4-N4	-8.72	111.90	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	525	U	C5-C4-O4	-8.72	120.67	125.90
25	BB	1348	C	C6-N1-C1'	8.72	131.26	120.80
25	BB	2448	A	N9-C4-C5	8.72	109.29	105.80
1	AA	75	C	C2-N3-C4	-8.71	115.54	119.90
24	BA	51	G	N3-C2-N2	-8.72	113.80	119.90
25	BB	1810	A	N7-C8-N9	8.72	118.16	113.80
3	A1	328	C	N1-C2-O2	8.71	124.13	118.90
25	BB	341	C	N3-C4-C5	8.71	125.39	121.90
25	BB	1326	U	C5'-C4'-O4'	8.71	119.56	109.10
25	BB	1912	A	C5-C6-N1	8.72	122.06	117.70
3	A1	617	G	N3-C2-N2	-8.71	113.80	119.90
25	BB	93	G	C5-C6-N1	8.71	115.86	111.50
25	BB	276	U	O4'-C1'-N1	8.71	115.17	108.20
25	BB	1193	G	C3'-C2'-C1'	8.71	108.47	101.50
25	BB	1777	U	N1-C2-N3	8.71	120.13	114.90
3	A1	296	U	N3-C2-O2	-8.71	116.10	122.20
3	A1	1201	A	N3-C4-C5	-8.71	120.70	126.80
25	BB	198	C	C6-N1-C2	-8.71	116.82	120.30
25	BB	210	C	N3-C4-C5	8.71	125.38	121.90
25	BB	742	A	C6-C5-N7	8.71	138.40	132.30
25	BB	1549	A	N1-C6-N6	-8.71	113.37	118.60
25	BB	1748	C	C2-N3-C4	-8.71	115.55	119.90
25	BB	1804	C	N3-C2-O2	-8.71	115.80	121.90
25	BB	2226	C	N3-C2-O2	-8.71	115.80	121.90
25	BB	2812	G	N9-C4-C5	-8.71	101.92	105.40
25	BB	2899	A	N1-C2-N3	8.71	133.66	129.30
3	A1	192	A	N1-C6-N6	-8.71	113.38	118.60
3	A1	1241	G	N1-C2-N3	8.71	129.13	123.90
25	BB	568	U	C1'-O4'-C4'	-8.71	102.93	109.90
25	BB	903	C	N3-C4-N4	-8.71	111.90	118.00
25	BB	1212	G	N3-C2-N2	-8.71	113.81	119.90
25	BB	1373	A	C4'-C3'-C2'	-8.71	93.89	102.60
25	BB	1534	U	O4'-C1'-N1	8.71	115.17	108.20
25	BB	1248	G	C6-N1-C2	-8.71	119.88	125.10
25	BB	1771	C	N3-C4-C5	8.71	125.38	121.90
25	BB	2261	C	C1'-O4'-C4'	-8.71	102.93	109.90
25	BB	2276	G	C6-C5-N7	8.71	135.62	130.40
25	BB	2876	G	N1-C6-O6	-8.71	114.67	119.90
3	A1	127	G	C4-C5-N7	-8.71	107.32	110.80
3	A1	636	U	N3-C2-O2	-8.71	116.11	122.20
3	A1	839	C	C5'-C4'-O4'	8.71	119.55	109.10
25	BB	1512	C	C5'-C4'-O4'	8.71	119.55	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1586	A	C5-C6-N6	8.71	130.66	123.70
25	BB	2048	G	C2-N3-C4	8.71	116.25	111.90
3	A1	1045	C	N3-C4-N4	-8.70	111.91	118.00
25	BB	312	G	C4-C5-N7	-8.70	107.32	110.80
25	BB	393	C	N3-C4-N4	-8.71	111.91	118.00
25	BB	876	C	C4-C5-C6	-8.70	113.05	117.40
25	BB	1304	A	O4'-C1'-N9	8.70	115.16	108.20
25	BB	1389	G	C5-C6-O6	8.70	133.82	128.60
25	BB	1402	U	N3-C4-C5	-8.71	109.38	114.60
25	BB	1994	C	P-O3'-C3'	8.71	130.15	119.70
25	BB	2437	G	N3-C4-C5	-8.70	124.25	128.60
3	A1	508	U	N3-C4-O4	8.70	125.49	119.40
3	A1	744	C	C6-N1-C2	-8.70	116.82	120.30
3	A1	1291	U	N3-C2-O2	-8.70	116.11	122.20
3	A1	1482	G	C6-N1-C2	-8.70	119.88	125.10
24	BA	103	U	C5-C6-N1	-8.70	118.35	122.70
24	BA	117	G	C5-N7-C8	-8.70	99.95	104.30
25	BB	2011	U	N3-C2-O2	-8.70	116.11	122.20
25	BB	2309	A	C6-C5-N7	8.70	138.39	132.30
25	BB	881	G	C6-N1-C2	-8.70	119.88	125.10
25	BB	1092	C	O4'-C1'-N1	8.70	115.16	108.20
25	BB	2236	U	C2-N3-C4	-8.70	121.78	127.00
25	BB	2723	C	C2-N3-C4	-8.70	115.55	119.90
38	BO	80	ASP	CB-CG-OD2	-8.70	110.47	118.30
3	A1	269	C	C2-N3-C4	-8.70	115.55	119.90
3	A1	1234	C	N3-C4-C5	8.70	125.38	121.90
25	BB	998	C	C5-C4-N4	8.70	126.29	120.20
25	BB	2538	C	C2-N3-C4	-8.70	115.55	119.90
3	A1	688	G	C6-N1-C2	-8.70	119.88	125.10
3	A1	967	C	N3-C4-C5	8.70	125.38	121.90
3	A1	1175	G	N1-C6-O6	-8.70	114.68	119.90
3	A1	1429	A	P-O5'-C5'	8.70	134.82	120.90
25	BB	274	C	C4-C5-C6	8.70	121.75	117.40
25	BB	367	G	N7-C8-N9	8.70	117.45	113.10
25	BB	532	A	C5-C6-N6	8.70	130.66	123.70
25	BB	956	G	C1'-O4'-C4'	-8.70	102.94	109.90
25	BB	1823	G	C5-N7-C8	-8.70	99.95	104.30
25	BB	2411	A	C6-C5-N7	8.70	138.39	132.30
25	BB	2551	C	N3-C2-O2	-8.70	115.81	121.90
3	A1	929	G	C6-C5-N7	8.70	135.62	130.40
25	BB	137	U	N3-C2-O2	-8.70	116.11	122.20
25	BB	667	U	C5-C6-N1	-8.70	118.35	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1717	A	N9-C4-C5	-8.70	102.32	105.80
1	AE	24	G	C4-C5-N7	-8.70	107.32	110.80
3	A1	44	A	C8-N9-C4	-8.70	102.32	105.80
3	A1	774	G	N1-C6-O6	-8.70	114.68	119.90
25	BB	118	A	C4-C5-C6	-8.70	112.65	117.00
25	BB	536	G	C5-N7-C8	-8.70	99.95	104.30
25	BB	797	G	C4'-C3'-C2'	-8.70	93.90	102.60
3	A1	1269	A	N7-C8-N9	8.69	118.15	113.80
25	BB	398	C	C4'-C3'-C2'	-8.70	93.91	102.60
25	BB	705	A	O4'-C1'-N9	-8.69	101.25	108.20
25	BB	706	A	C5-N7-C8	-8.70	99.55	103.90
25	BB	804	A	C6-C5-N7	8.70	138.39	132.30
25	BB	2238	G	N1-C2-N2	-8.70	108.37	116.20
25	BB	2536	G	N7-C8-N9	8.69	117.45	113.10
25	BB	2773	C	N3-C4-C5	-8.69	118.42	121.90
48	BY	156	PHE	CB-CG-CD1	-8.69	114.71	120.80
3	A1	805	C	C2-N3-C4	-8.69	115.55	119.90
3	A1	1089	G	C4'-C3'-C2'	-8.69	93.91	102.60
3	A1	1494	G	C4-C5-N7	-8.69	107.32	110.80
25	BB	1438	U	N1-C2-O2	8.69	128.88	122.80
25	BB	1659	G	C6-C5-N7	8.69	135.61	130.40
25	BB	2005	A	N1-C2-N3	-8.69	124.95	129.30
25	BB	2126	A	C4-C5-C6	-8.69	112.65	117.00
25	BB	2488	G	N1-C6-O6	-8.69	114.68	119.90
25	BB	2351	G	N7-C8-N9	8.69	117.45	113.10
1	AE	24	G	N1-C6-O6	-8.69	114.69	119.90
3	A1	17	U	N1-C2-N3	8.69	120.11	114.90
25	BB	2516	A	C5'-C4'-O4'	8.69	119.53	109.10
3	A1	33	A	C4-C5-C6	-8.69	112.66	117.00
3	A1	1002	G	C5-N7-C8	-8.69	99.95	104.30
3	A1	1513	A	C5-N7-C8	-8.69	99.56	103.90
25	BB	281	C	N3-C4-N4	-8.69	111.92	118.00
25	BB	986	C	N3-C2-O2	-8.69	115.82	121.90
25	BB	1434	A	C5-N7-C8	-8.69	99.56	103.90
25	BB	1953	A	C5-N7-C8	-8.69	99.56	103.90
25	BB	2830	C	N3-C4-N4	-8.69	111.92	118.00
29	BF	59	ARG	NE-CZ-NH2	8.69	124.64	120.30
3	A1	276	G	N1-C6-O6	-8.69	114.69	119.90
25	BB	1474	U	O4'-C1'-C2'	-8.69	97.11	105.80
1	AA	10	G	C8-N9-C4	-8.69	102.93	106.40
3	A1	42	G	C4-C5-N7	8.69	114.27	110.80
25	BB	104	A	N7-C8-N9	8.69	118.14	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1811	G	C4-C5-N7	-8.69	107.33	110.80
1	AA	68	U	C5-C6-N1	-8.68	118.36	122.70
3	A1	265	G	N1-C6-O6	-8.68	114.69	119.90
25	BB	360	U	N1-C2-N3	8.68	120.11	114.90
25	BB	2694	G	C1'-O4'-C4'	-8.68	102.95	109.90
25	BB	163	C	N3-C2-O2	-8.68	115.82	121.90
25	BB	971	G	P-O3'-C3'	8.68	130.12	119.70
25	BB	1079	C	N3-C2-O2	-8.68	115.82	121.90
25	BB	1258	U	C1'-O4'-C4'	-8.68	102.95	109.90
25	BB	2882	A	C5-C6-N1	8.68	122.04	117.70
3	A1	393	A	C5-C6-N1	8.68	122.04	117.70
3	A1	651	C	C2-N3-C4	-8.68	115.56	119.90
3	A1	970	C	C4-C5-C6	-8.68	113.06	117.40
25	BB	617	G	N7-C8-N9	8.68	117.44	113.10
25	BB	1299	G	C5-N7-C8	-8.68	99.96	104.30
25	BB	1634	A	N7-C8-N9	8.68	118.14	113.80
25	BB	1651	G	C4-C5-N7	-8.68	107.33	110.80
25	BB	2370	G	C5-C6-O6	8.68	133.81	128.60
3	A1	703	G	C5-N7-C8	8.68	108.64	104.30
3	A1	1391	U	C2'-C3'-O3'	8.68	128.59	109.50
3	A1	1392	G	C8-N9-C4	-8.68	102.93	106.40
25	BB	364	C	C6-N1-C2	-8.68	116.83	120.30
25	BB	2673	G	N3-C2-N2	-8.68	113.83	119.90
25	BB	2778	A	C4-C5-C6	-8.68	112.66	117.00
3	A1	108	G	C5-N7-C8	-8.68	99.96	104.30
3	A1	1383	C	N1-C2-N3	8.68	125.27	119.20
1	AE	10	G	N1-C6-O6	-8.68	114.69	119.90
24	BA	20	G	N3-C4-C5	-8.68	124.26	128.60
25	BB	815	C	C5-C6-N1	-8.68	116.66	121.00
25	BB	99	U	N1-C2-N3	8.68	120.11	114.90
25	BB	121	G	C4-C5-C6	-8.68	113.59	118.80
25	BB	521	U	C5-C4-O4	-8.68	120.69	125.90
25	BB	806	C	N3-C2-O2	-8.68	115.83	121.90
25	BB	950	G	N1-C6-O6	-8.68	114.69	119.90
25	BB	1503	A	N1-C2-N3	-8.68	124.96	129.30
25	BB	1598	A	C4-C5-C6	-8.68	112.66	117.00
25	BB	2199	A	C5-N7-C8	-8.68	99.56	103.90
25	BB	2267	A	C6-C5-N7	8.68	138.37	132.30
25	BB	2304	G	N1-C6-O6	-8.68	114.69	119.90
25	BB	2582	G	C5-C6-N1	8.68	115.84	111.50
25	BB	2627	G	N1-C2-N2	-8.68	108.39	116.20
3	A1	24	U	N1-C2-N3	8.67	120.10	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AP	66	A	C2-N3-C4	8.67	114.94	110.60
3	A1	384	G	C5-C6-O6	8.67	133.80	128.60
25	BB	361	G	N7-C8-N9	8.67	117.44	113.10
25	BB	1522	A	C4-C5-C6	-8.67	112.66	117.00
25	BB	1914	C	C6-N1-C2	-8.67	116.83	120.30
25	BB	1952	A	N3-C4-N9	-8.67	120.46	127.40
25	BB	2575	C	O4'-C4'-C3'	8.67	113.04	106.10
3	A1	717	U	C3'-C2'-C1'	-8.67	94.56	101.50
3	A1	1288	A	C6-N1-C2	-8.67	113.40	118.60
25	BB	467	G	C2-N3-C4	-8.67	107.56	111.90
25	BB	538	A	N9-C4-C5	8.67	109.27	105.80
25	BB	864	G	C8-N9-C4	-8.67	102.93	106.40
25	BB	1046	A	C5-C6-N6	8.67	130.64	123.70
25	BB	1136	G	O4'-C1'-N9	8.67	115.14	108.20
25	BB	1445	G	N3-C4-C5	-8.67	124.26	128.60
25	BB	1638	C	C5'-C4'-O4'	8.67	119.51	109.10
25	BB	2364	C	N3-C2-O2	-8.67	115.83	121.90
25	BB	2778	A	O4'-C1'-N9	8.67	115.14	108.20
1	AA	74	C	O5'-C5'-C4'	8.67	128.17	111.70
3	A1	807	A	N1-C6-N6	-8.67	113.40	118.60
25	BB	468	G	C5'-C4'-O4'	8.67	119.50	109.10
25	BB	2402	U	O4'-C1'-N1	8.67	115.14	108.20
3	A1	244	U	N3-C2-O2	-8.67	116.13	122.20
3	A1	496	A	C1'-O4'-C4'	-8.67	102.97	109.90
25	BB	571	U	C5'-C4'-O4'	8.67	119.50	109.10
25	BB	617	G	O5'-P-OP2	-8.67	97.90	105.70
25	BB	1004	U	N3-C2-O2	-8.67	116.13	122.20
25	BB	2006	C	N1-C2-O2	8.67	124.10	118.90
25	BB	2256	G	C6-C5-N7	8.67	135.60	130.40
28	BE	123	ARG	NE-CZ-NH1	8.67	124.64	120.30
3	A1	152	A	C4-C5-C6	-8.67	112.67	117.00
3	A1	1376	U	N3-C2-O2	-8.67	116.13	122.20
25	BB	1366	A	C5-C6-N6	8.67	130.63	123.70
25	BB	1445	G	C5-C6-O6	8.67	133.80	128.60
25	BB	1687	G	C5-C6-O6	8.67	133.80	128.60
25	BB	1525	A	C4-C5-C6	-8.67	112.67	117.00
25	BB	1706	C	N1-C2-O2	8.67	124.10	118.90
37	BN	228	ASP	CB-CG-OD1	8.67	126.10	118.30
3	A1	1459	G	C4-C5-N7	8.66	114.27	110.80
1	AP	31	A	C6-N1-C2	-8.66	113.40	118.60
3	A1	310	G	C6-C5-N7	8.66	135.60	130.40
3	A1	803	G	C8-N9-C4	-8.66	102.93	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1641	A	C5-C6-N6	8.66	130.63	123.70
3	A1	512	U	C5'-C4'-O4'	8.66	119.49	109.10
3	A1	1014	A	C6-N1-C2	-8.66	113.40	118.60
25	BB	583	G	C5-C6-N1	8.66	115.83	111.50
25	BB	2129	C	N3-C4-C5	8.66	125.37	121.90
3	A1	1481	U	C5'-C4'-O4'	8.66	119.49	109.10
25	BB	222	A	C6-C5-N7	8.66	138.36	132.30
25	BB	222	A	C8-N9-C4	-8.66	102.33	105.80
25	BB	386	G	C4-C5-N7	-8.66	107.33	110.80
25	BB	563	A	C8-N9-C4	-8.66	102.33	105.80
25	BB	406	G	N9-C4-C5	8.66	108.86	105.40
25	BB	1149	G	N1-C2-N3	8.66	129.10	123.90
25	BB	1151	A	N1-C6-N6	-8.66	113.40	118.60
25	BB	1530	G	N1-C6-O6	-8.66	114.70	119.90
25	BB	2852	G	N7-C8-N9	8.66	117.43	113.10
34	BK	32	THR	CA-CB-CG2	8.66	124.53	112.40
3	A1	402	G	N7-C8-N9	-8.66	108.77	113.10
3	A1	1278	G	C5-C6-N1	8.66	115.83	111.50
3	A1	209	U	C4-C5-C6	8.66	124.89	119.70
3	A1	241	G	N9-C4-C5	-8.66	101.94	105.40
3	A1	559	A	C5-C6-N1	8.66	122.03	117.70
24	BA	64	G	N3-C2-N2	-8.66	113.84	119.90
19	AT	38	ARG	NH1-CZ-NH2	-8.66	109.88	119.40
25	BB	119	A	C5-C6-N1	8.66	122.03	117.70
25	BB	935	C	N1-C1'-C2'	-8.66	102.47	112.00
25	BB	1397	U	O4'-C1'-N1	8.66	115.13	108.20
25	BB	1406	U	C5-C4-O4	-8.66	120.70	125.90
25	BB	1453	A	C6-N1-C2	-8.66	113.40	118.60
25	BB	1502	A	N1-C2-N3	8.66	133.63	129.30
25	BB	2707	U	C3'-C2'-C1'	-8.66	94.57	101.50
25	BB	2715	C	C5-C4-N4	8.66	126.26	120.20
25	BB	793	A	N1-C2-N3	8.66	133.63	129.30
25	BB	1763	G	N9-C4-C5	-8.66	101.94	105.40
3	A1	603	U	N1-C2-N3	8.66	120.09	114.90
3	A1	1195	C	N1-C2-O2	8.66	124.09	118.90
3	A1	1300	G	N1-C2-N3	8.66	129.09	123.90
25	BB	588	U	O4'-C1'-N1	-8.66	101.28	108.20
25	BB	726	G	C5-C6-N1	8.66	115.83	111.50
25	BB	859	G	C5-N7-C8	-8.66	99.97	104.30
25	BB	972	A	C2-N3-C4	8.66	114.93	110.60
25	BB	991	C	N3-C4-C5	8.66	125.36	121.90
25	BB	2732	G	N1-C2-N3	8.66	129.09	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2340	A	C2-N3-C4	8.66	114.93	110.60
25	BB	2894	G	N3-C4-N9	8.66	131.19	126.00
1	AA	11	C	O4'-C1'-N1	8.65	115.12	108.20
3	A1	252	U	C6-N1-C2	-8.65	115.81	121.00
3	A1	626	G	N3-C2-N2	-8.65	113.84	119.90
3	A1	1362	A	C5-C6-N1	8.65	122.03	117.70
25	BB	225	C	O4'-C1'-N1	8.65	115.12	108.20
25	BB	2902	C	C4-C5-C6	-8.65	113.07	117.40
35	BL	78	GLU	OE1-CD-OE2	-8.65	112.91	123.30
3	A1	469	C	N1-C2-O2	8.65	124.09	118.90
25	BB	438	G	C1'-O4'-C4'	-8.65	102.98	109.90
25	BB	603	A	C5-C6-N6	8.65	130.62	123.70
25	BB	1002	G	N1-C6-O6	-8.65	114.71	119.90
25	BB	1911	U	C2-N3-C4	-8.65	121.81	127.00
25	BB	2138	G	C8-N9-C4	-8.65	102.94	106.40
25	BB	2259	U	C5-C6-N1	-8.65	118.37	122.70
25	BB	2520	C	N3-C4-N4	-8.65	111.94	118.00
3	A1	202	G	N3-C2-N2	-8.65	113.84	119.90
3	A1	731	G	C8-N9-C4	-8.65	102.94	106.40
25	BB	2495	G	N3-C2-N2	-8.65	113.84	119.90
24	BA	97	C	N1-C2-O2	8.65	124.09	118.90
25	BB	472	A	C5-C6-N1	8.65	122.03	117.70
25	BB	1436	G	N3-C4-C5	-8.65	124.28	128.60
25	BB	2699	C	C2-N3-C4	-8.65	115.57	119.90
1	AA	4	G	N9-C4-C5	8.65	108.86	105.40
3	A1	130	A	C5-C6-N1	8.65	122.03	117.70
1	AE	76	A	C2-N3-C4	8.65	114.92	110.60
3	A1	777	A	C5-C6-N1	8.65	122.02	117.70
3	A1	1284	C	C2-N3-C4	-8.65	115.58	119.90
25	BB	168	G	N3-C4-C5	-8.65	124.28	128.60
25	BB	399	U	C2-N3-C4	-8.65	121.81	127.00
25	BB	794	A	N1-C6-N6	-8.65	113.41	118.60
25	BB	1595	C	C5-C6-N1	-8.65	116.68	121.00
25	BB	1852	U	N1-C2-O2	8.65	128.85	122.80
25	BB	2173	A	C5-N7-C8	-8.65	99.58	103.90
25	BB	97	C	C1'-O4'-C4'	8.65	116.82	109.90
25	BB	976	G	N1-C2-N3	8.65	129.09	123.90
25	BB	2027	G	C5-C6-N1	8.65	115.82	111.50
25	BB	2324	U	N3-C2-O2	-8.65	116.15	122.20
3	A1	362	G	C5-C6-O6	8.64	133.79	128.60
24	BA	116	G	C1'-O4'-C4'	-8.64	102.98	109.90
3	A1	1050	G	C1'-O4'-C4'	-8.64	102.99	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1469	C	C2-N3-C4	-8.64	115.58	119.90
24	BA	77	U	N1-C2-N3	8.64	120.09	114.90
25	BB	878	A	C6-C5-N7	8.64	138.35	132.30
25	BB	1626	A	C2-N3-C4	8.64	114.92	110.60
25	BB	893	C	C5-C4-N4	-8.64	114.15	120.20
25	BB	1343	G	N3-C4-C5	-8.64	124.28	128.60
25	BB	2294	G	C5-C6-N1	8.64	115.82	111.50
3	A1	210	C	N3-C2-O2	-8.64	115.85	121.90
3	A1	547	A	O5'-P-OP2	-8.64	97.92	105.70
3	A1	788	U	C5-C4-O4	-8.64	120.72	125.90
3	A1	893	C	C3'-C2'-C1'	8.64	108.41	101.50
3	A1	1140	C	N3-C4-C5	8.64	125.36	121.90
25	BB	223	A	N1-C2-N3	-8.64	124.98	129.30
25	BB	1625	C	N3-C4-N4	-8.64	111.95	118.00
25	BB	2314	A	C4-C5-C6	-8.64	112.68	117.00
25	BB	2620	C	N1-C2-N3	8.64	125.25	119.20
1	AA	17	U	C5-C4-O4	8.64	131.08	125.90
25	BB	177	G	N1-C2-N2	8.64	123.97	116.20
25	BB	1343	G	N9-C4-C5	8.64	108.86	105.40
25	BB	1479	G	N1-C2-N2	8.64	123.97	116.20
25	BB	1814	G	C6-N1-C2	-8.64	119.92	125.10
25	BB	317	G	O4'-C1'-N9	8.64	115.11	108.20
25	BB	682	G	O4'-C1'-N9	8.64	115.11	108.20
25	BB	989	G	C6-N1-C2	-8.64	119.92	125.10
25	BB	1565	C	C4-C5-C6	8.64	121.72	117.40
25	BB	1615	C	N1-C2-N3	8.64	125.25	119.20
25	BB	2539	C	O4'-C4'-C3'	8.64	113.01	106.10
1	AA	31	A	C6-C5-N7	8.63	138.34	132.30
2	AM	2	U	N1-C2-N3	8.63	120.08	114.90
3	A1	81	A	C4-C5-C6	-8.63	112.68	117.00
3	A1	163	C	N3-C2-O2	-8.63	115.86	121.90
3	A1	166	U	C5-C4-O4	8.63	131.08	125.90
3	A1	434	U	C4-C5-C6	8.64	124.88	119.70
3	A1	1134	G	C6-C5-N7	8.63	135.58	130.40
3	A1	1240	U	N1-C2-N3	8.63	120.08	114.90
7	AF	69	ARG	NE-CZ-NH2	-8.63	115.98	120.30
25	BB	938	G	N1-C6-O6	-8.63	114.72	119.90
25	BB	2222	C	C6-N1-C2	-8.64	116.85	120.30
25	BB	2741	A	C6-C5-N7	8.63	138.34	132.30
1	AE	61	C	C5-C4-N4	-8.63	114.16	120.20
3	A1	747	A	C4-C5-C6	-8.63	112.68	117.00
3	A1	1301	U	N3-C2-O2	-8.63	116.16	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1499	A	N9-C4-C5	-8.63	102.35	105.80
25	BB	510	C	C5'-C4'-O4'	8.63	119.46	109.10
3	A1	23	C	N1-C2-O2	8.63	124.08	118.90
5	AC	121	ARG	NH1-CZ-NH2	-8.63	109.91	119.40
7	AF	2	ARG	NH1-CZ-NH2	-8.63	109.91	119.40
24	BA	46	A	C2-N3-C4	8.63	114.92	110.60
25	BB	1015	U	O4'-C1'-N1	8.63	115.10	108.20
25	BB	1814	G	O4'-C1'-N9	8.63	115.11	108.20
25	BB	2020	A	C4-C5-C6	-8.63	112.68	117.00
25	BB	2135	A	C4-C5-C6	-8.63	112.69	117.00
25	BB	2464	G	N9-C4-C5	8.63	108.85	105.40
3	A1	53	A	C8-N9-C4	-8.63	102.35	105.80
3	A1	605	U	C4-C5-C6	8.63	124.88	119.70
3	A1	1111	A	N9-C4-C5	8.63	109.25	105.80
3	A1	727	G	O4'-C1'-N9	8.63	115.10	108.20
3	A1	1024	G	C4-C5-C6	-8.63	113.62	118.80
25	BB	1337	G	C8-N9-C4	8.63	109.85	106.40
25	BB	1759	A	N1-C6-N6	-8.63	113.42	118.60
25	BB	2035	G	C8-N9-C4	-8.63	102.95	106.40
25	BB	2641	G	N1-C6-O6	-8.63	114.72	119.90
3	A1	203	G	C6-N1-C2	-8.63	119.92	125.10
1	AP	11	C	N3-C2-O2	-8.62	115.86	121.90
3	A1	99	C	C3'-C2'-C1'	-8.62	94.60	101.50
3	A1	214	C	C5-C6-N1	-8.62	116.69	121.00
3	A1	315	A	C1'-O4'-C4'	-8.62	103.00	109.90
25	BB	973	A	C5-C6-N1	8.63	122.01	117.70
3	A1	527	G	C4-C5-C6	-8.62	113.63	118.80
25	BB	740	C	N3-C2-O2	-8.62	115.86	121.90
25	BB	2152	G	N3-C4-N9	8.63	131.18	126.00
25	BB	1736	U	P-O3'-C3'	8.62	130.05	119.70
25	BB	52	A	N1-C6-N6	-8.62	113.43	118.60
25	BB	1078	U	C5-C6-N1	-8.62	118.39	122.70
3	A1	564	C	C2-N3-C4	-8.62	115.59	119.90
25	BB	362	A	C5-N7-C8	-8.62	99.59	103.90
25	BB	563	A	N7-C8-N9	8.62	118.11	113.80
25	BB	2379	G	N1-C6-O6	-8.62	114.73	119.90
1	AE	42	G	N3-C4-N9	8.62	131.17	126.00
2	AM	9	U	O4'-C4'-C3'	8.62	113.00	106.10
3	A1	43	C	N3-C2-O2	-8.62	115.87	121.90
3	A1	199	A	O4'-C4'-C3'	8.62	113.00	106.10
25	BB	92	U	C1'-O4'-C4'	-8.62	103.00	109.90
3	A1	771	G	C6-N1-C2	-8.62	119.93	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	151	C	C5-C6-N1	-8.62	116.69	121.00
25	BB	420	C	N3-C2-O2	-8.62	115.87	121.90
25	BB	421	C	C5-C4-N4	-8.62	114.17	120.20
25	BB	1598	A	N1-C6-N6	-8.62	113.43	118.60
25	BB	2567	G	N3-C4-N9	-8.62	120.83	126.00
25	BB	2209	G	C8-N9-C4	-8.62	102.95	106.40
3	A1	396	C	N3-C2-O2	-8.62	115.87	121.90
3	A1	662	U	C4-C5-C6	8.62	124.87	119.70
3	A1	667	G	N1-C6-O6	-8.62	114.73	119.90
3	A1	1234	C	C2-N3-C4	-8.62	115.59	119.90
25	BB	334	C	C6-N1-C2	-8.62	116.85	120.30
25	BB	435	C	N3-C4-C5	8.62	125.35	121.90
25	BB	796	C	N3-C4-N4	-8.62	111.97	118.00
25	BB	2848	G	C6-N1-C2	-8.62	119.93	125.10
25	BB	1074	G	C6-C5-N7	8.61	135.57	130.40
25	BB	1463	C	N3-C4-C5	8.61	125.35	121.90
25	BB	2606	C	C5-C6-N1	-8.61	116.69	121.00
20	AU	84	TYR	CZ-CE2-CD2	8.61	127.55	119.80
25	BB	1135	C	N3-C2-O2	-8.61	115.87	121.90
25	BB	1884	G	C5-C6-O6	8.61	133.77	128.60
25	BB	1886	U	C5-C6-N1	-8.61	118.39	122.70
47	BX	12	ARG	NH1-CZ-NH2	-8.61	109.93	119.40
3	A1	277	C	C4'-C3'-C2'	-8.61	93.99	102.60
3	A1	332	G	N3-C4-N9	8.61	131.17	126.00
3	A1	544	G	N7-C8-N9	8.61	117.41	113.10
25	BB	2511	U	C6-N1-C2	-8.61	115.83	121.00
35	BL	99	ARG	NE-CZ-NH1	8.61	124.61	120.30
3	A1	741	G	C8-N9-C4	-8.61	102.96	106.40
3	A1	1297	G	N1-C2-N3	8.61	129.06	123.90
25	BB	2266	A	N1-C2-N3	-8.61	125.00	129.30
25	BB	685	A	N7-C8-N9	8.61	118.10	113.80
25	BB	1008	A	C4-C5-N7	-8.61	106.40	110.70
25	BB	1036	G	C4-C5-C6	-8.61	113.64	118.80
25	BB	2710	C	O4'-C1'-N1	8.61	115.09	108.20
30	BG	69	ARG	NH1-CZ-NH2	-8.61	109.93	119.40
3	A1	268	U	C5-C6-N1	-8.61	118.40	122.70
3	A1	399	G	N1-C6-O6	-8.61	114.74	119.90
3	A1	481	G	N3-C4-C5	-8.61	124.30	128.60
3	A1	818	G	C5'-C4'-C3'	-8.61	102.23	116.00
3	A1	912	C	N3-C2-O2	-8.61	115.88	121.90
25	BB	1455	G	C5-N7-C8	8.61	108.60	104.30
3	A1	956	U	C4'-C3'-C2'	-8.61	94.00	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1003	G	C6-C5-N7	8.61	135.56	130.40
25	BB	33	C	N1-C2-O2	8.61	124.06	118.90
25	BB	163	C	O4'-C1'-N1	8.61	115.08	108.20
25	BB	487	C	N1-C2-N3	8.61	125.22	119.20
25	BB	1798	U	N1-C2-N3	8.61	120.06	114.90
25	BB	2361	G	C6-N1-C2	-8.61	119.94	125.10
25	BB	2447	G	C5-C6-O6	8.61	133.76	128.60
25	BB	2656	U	N1-C2-N3	8.61	120.06	114.90
1	AA	51	G	N1-C6-O6	-8.60	114.74	119.90
1	AE	45	G	C5-C6-N1	8.60	115.80	111.50
25	BB	251	A	C5-N7-C8	-8.60	99.60	103.90
3	A1	113	G	C2-N3-C4	8.60	116.20	111.90
3	A1	392	C	C3'-C2'-C1'	8.60	108.38	101.50
25	BB	52	A	C6-N1-C2	-8.60	113.44	118.60
25	BB	158	U	O4'-C1'-N1	8.60	115.08	108.20
25	BB	395	U	N1-C2-O2	8.60	128.82	122.80
25	BB	960	A	C5-N7-C8	-8.60	99.60	103.90
25	BB	1020	A	C4-C5-C6	-8.60	112.70	117.00
25	BB	1052	C	C2-N3-C4	-8.60	115.60	119.90
25	BB	1462	C	N3-C4-N4	-8.60	111.98	118.00
25	BB	2450	A	O4'-C4'-C3'	8.60	112.98	106.10
25	BB	2451	A	C2-N3-C4	8.60	114.90	110.60
25	BB	2513	A	C6-N1-C2	-8.60	113.44	118.60
25	BB	2491	U	C5-C4-O4	-8.60	120.74	125.90
3	A1	1368	A	C4-C5-C6	-8.60	112.70	117.00
3	A1	1523	G	C5-C6-O6	-8.60	123.44	128.60
15	AO	192	TYR	CG-CD1-CE1	8.60	128.18	121.30
25	BB	1037	G	N7-C8-N9	8.60	117.40	113.10
2	AM	18	U	C1'-O4'-C4'	8.60	116.78	109.90
25	BB	65	U	N3-C2-O2	-8.60	116.18	122.20
25	BB	132	G	C6-N1-C2	-8.60	119.94	125.10
25	BB	227	A	C5-C6-N6	8.60	130.58	123.70
25	BB	380	G	C4-C5-N7	-8.60	107.36	110.80
1	AA	4	G	C8-N9-C4	-8.60	102.96	106.40
1	AA	37	G	C5-C6-O6	8.60	133.76	128.60
25	BB	1247	A	C4-C5-N7	-8.60	106.40	110.70
25	BB	1456	G	C5-N7-C8	-8.60	100.00	104.30
25	BB	2485	G	C8-N9-C4	-8.60	102.96	106.40
1	AP	60	C	N3-C4-C5	8.60	125.34	121.90
1	AE	46	G	C6-N1-C2	-8.60	119.94	125.10
3	A1	69	G	N3-C2-N2	-8.60	113.88	119.90
3	A1	979	C	C2-N3-C4	-8.60	115.60	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1548	A	O4'-C1'-N9	8.60	115.08	108.20
25	BB	1841	U	O4'-C1'-N1	8.60	115.08	108.20
25	BB	2285	C	C5'-C4'-O4'	8.60	119.42	109.10
25	BB	2713	U	C3'-C2'-C1'	-8.60	94.62	101.50
25	BB	2759	G	C4-C5-N7	-8.60	107.36	110.80
1	AA	34	G	N3-C2-N2	-8.59	113.88	119.90
3	A1	462	G	C4-C5-N7	-8.59	107.36	110.80
3	A1	963	G	N7-C8-N9	8.59	117.40	113.10
25	BB	154	U	O4'-C4'-C3'	8.59	112.97	106.10
25	BB	766	U	O4'-C1'-N1	8.59	115.08	108.20
25	BB	2051	A	C8-N9-C4	-8.59	102.36	105.80
25	BB	2630	G	C5'-C4'-O4'	8.59	119.41	109.10
25	BB	2705	A	C6-N1-C2	-8.59	113.44	118.60
49	BZ	122	ARG	CD-NE-CZ	8.59	135.63	123.60
3	A1	1264	U	C6-N1-C2	-8.59	115.84	121.00
24	BA	81	G	C6-C5-N7	8.59	135.55	130.40
25	BB	535	G	N1-C6-O6	-8.59	114.75	119.90
25	BB	811	U	C6-N1-C2	-8.59	115.85	121.00
25	BB	1171	G	N1-C6-O6	-8.59	114.75	119.90
25	BB	1390	U	C5-C6-N1	-8.59	118.41	122.70
25	BB	1789	A	C5-N7-C8	-8.59	99.61	103.90
25	BB	2779	U	O4'-C4'-C3'	8.59	112.97	106.10
3	A1	392	C	C6-N1-C2	-8.59	116.86	120.30
3	A1	28	A	C6-C5-N7	8.59	138.31	132.30
3	A1	730	G	C4-C5-N7	-8.59	107.36	110.80
3	A1	749	A	C2-N3-C4	-8.59	106.31	110.60
25	BB	11	C	C1'-O4'-C4'	8.59	116.77	109.90
25	BB	797	G	C6-C5-N7	8.59	135.55	130.40
25	BB	1002	G	N9-C4-C5	-8.59	101.97	105.40
25	BB	1719	G	C4-C5-C6	-8.59	113.65	118.80
25	BB	1260	A	C4-C5-C6	-8.59	112.71	117.00
25	BB	1353	A	C8-N9-C4	8.59	109.23	105.80
25	BB	2640	G	C6-N1-C2	-8.59	119.95	125.10
25	BB	2740	A	C1'-O4'-C4'	-8.59	103.03	109.90
1	AE	9	A	C5-N7-C8	8.58	108.19	103.90
3	A1	246	A	O4'-C1'-C2'	-8.58	97.22	105.80
3	A1	1510	C	N3-C2-O2	-8.58	115.89	121.90
3	A1	208	U	C5-C4-O4	-8.58	120.75	125.90
3	A1	246	A	C1'-O4'-C4'	8.58	116.77	109.90
3	A1	1139	G	C5-N7-C8	-8.58	100.01	104.30
25	BB	569	U	N3-C2-O2	-8.58	116.19	122.20
25	BB	1215	G	C5-N7-C8	-8.58	100.01	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1884	G	C4-C5-N7	-8.58	107.37	110.80
25	BB	2721	A	N1-C2-N3	8.58	133.59	129.30
25	BB	2756	U	C2-N3-C4	-8.58	121.85	127.00
3	A1	293	G	C5'-C4'-C3'	-8.58	102.27	116.00
3	A1	425	G	C4-C5-N7	8.58	114.23	110.80
3	A1	528	C	C2-N3-C4	-8.58	115.61	119.90
24	BA	102	G	C4-C5-N7	-8.58	107.37	110.80
3	A1	626	G	C4-C5-C6	-8.58	113.65	118.80
25	BB	686	U	C2-N3-C4	-8.58	121.85	127.00
25	BB	1057	A	N1-C2-N3	-8.58	125.01	129.30
25	BB	1105	U	O4'-C1'-N1	8.58	115.06	108.20
25	BB	1308	A	N1-C2-N3	8.58	133.59	129.30
25	BB	2346	A	C4'-C3'-C2'	-8.58	94.02	102.60
25	BB	2221	G	N1-C2-N2	-8.58	108.48	116.20
25	BB	2322	A	N9-C4-C5	-8.58	102.37	105.80
3	A1	783	C	N3-C2-O2	-8.58	115.90	121.90
3	A1	32	A	N1-C6-N6	-8.58	113.45	118.60
3	A1	424	G	C5-N7-C8	-8.58	100.01	104.30
3	A1	1234	C	N3-C2-O2	-8.58	115.90	121.90
3	A1	667	G	C8-N9-C4	-8.58	102.97	106.40
25	BB	108	G	C5-C6-N1	8.58	115.79	111.50
25	BB	1474	U	N3-C4-O4	8.58	125.40	119.40
25	BB	1483	G	C2-N3-C4	8.58	116.19	111.90
25	BB	1549	A	C6-N1-C2	-8.58	113.45	118.60
25	BB	1768	C	C5-C4-N4	8.58	126.20	120.20
1	AA	19	G	C4-C5-C6	-8.57	113.66	118.80
3	A1	111	G	N3-C4-C5	-8.57	124.31	128.60
25	BB	712	G	C4-C5-N7	-8.57	107.37	110.80
25	BB	2899	A	C4-C5-C6	-8.57	112.71	117.00
3	A1	326	G	N7-C8-N9	8.57	117.39	113.10
3	A1	362	G	C5'-C4'-O4'	8.57	119.39	109.10
3	A1	527	G	C4-C5-N7	8.57	114.23	110.80
3	A1	820	U	O4'-C1'-N1	8.57	115.06	108.20
24	BA	15	A	C5'-C4'-O4'	8.57	119.39	109.10
25	BB	76	C	C6-N1-C2	-8.57	116.87	120.30
25	BB	541	A	C4'-C3'-C2'	-8.57	94.03	102.60
25	BB	634	C	N1-C2-O2	8.57	124.04	118.90
25	BB	1016	G	C6-C5-N7	8.57	135.54	130.40
25	BB	1130	U	O4'-C1'-N1	8.57	115.06	108.20
33	BJ	101	ASP	CB-CG-OD1	8.57	126.02	118.30
1	AA	26	G	C2-N3-C4	8.57	116.19	111.90
3	A1	481	G	C6-N1-C2	-8.57	119.96	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	824	G	N7-C8-N9	8.57	117.39	113.10
25	BB	2343	U	C5-C6-N1	-8.57	118.41	122.70
1	AP	59	U	O4'-C1'-N1	8.57	115.06	108.20
3	A1	5	U	N1-C2-O2	8.57	128.80	122.80
3	A1	695	A	N1-C6-N6	-8.57	113.46	118.60
3	A1	791	G	N3-C4-C5	-8.57	124.31	128.60
3	A1	1158	C	N3-C2-O2	-8.57	115.90	121.90
3	A1	1455	G	C5-C6-N1	8.57	115.78	111.50
14	AN	28	ARG	NE-CZ-NH1	8.57	124.59	120.30
25	BB	706	A	C8-N9-C4	-8.57	102.37	105.80
25	BB	1165	A	N1-C6-N6	-8.57	113.46	118.60
25	BB	2245	U	N3-C2-O2	-8.57	116.20	122.20
3	A1	112	G	C2-N3-C4	8.57	116.18	111.90
3	A1	410	G	C6-N1-C2	-8.57	119.96	125.10
3	A1	895	G	C1'-O4'-C4'	8.57	116.75	109.90
3	A1	1525	G	O4'-C1'-N9	8.57	115.05	108.20
25	BB	678	C	N1-C2-N3	8.57	125.20	119.20
25	BB	699	A	O4'-C4'-C3'	8.57	112.95	106.10
25	BB	975	A	C6-N1-C2	-8.57	113.46	118.60
25	BB	2565	A	N1-C6-N6	-8.57	113.46	118.60
25	BB	2719	G	C5-C6-N1	8.57	115.78	111.50
3	A1	126	G	N3-C2-N2	-8.56	113.91	119.90
3	A1	142	G	C8-N9-C4	-8.56	102.97	106.40
25	BB	312	G	C8-N9-C4	-8.56	102.97	106.40
25	BB	1307	A	C4-C5-N7	8.56	114.98	110.70
25	BB	2148	G	N7-C8-N9	8.56	117.38	113.10
25	BB	2581	G	C4-C5-N7	-8.56	107.38	110.80
3	A1	1075	U	C5-C6-N1	-8.56	118.42	122.70
25	BB	468	G	C5-C6-O6	8.56	133.74	128.60
3	A1	64	G	C3'-C2'-C1'	8.56	108.35	101.50
25	BB	518	G	C6-N1-C2	-8.56	119.96	125.10
25	BB	1635	A	C5-C6-N1	8.56	121.98	117.70
25	BB	2764	A	C5-C6-N6	8.56	130.55	123.70
3	A1	348	G	C6-N1-C2	-8.56	119.97	125.10
25	BB	83	A	C3'-C2'-C1'	-8.56	94.66	101.50
25	BB	2101	A	O4'-C4'-C3'	8.56	112.95	106.10
25	BB	2247	A	C5-C6-N1	8.56	121.98	117.70
25	BB	2724	U	N3-C2-O2	-8.56	116.21	122.20
1	AP	57	G	C5-C6-N1	8.55	115.78	111.50
1	AP	70	C	N1-C1'-C2'	-8.55	102.59	112.00
3	A1	742	G	N3-C2-N2	8.55	125.89	119.90
3	A1	1000	A	C5-C6-N6	8.55	130.54	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	8	C	N3-C4-N4	-8.55	112.01	118.00
25	BB	816	C	N3-C2-O2	-8.55	115.91	121.90
25	BB	833	A	O4'-C4'-C3'	8.55	112.94	106.10
25	BB	1918	A	C6-N1-C2	-8.55	113.47	118.60
25	BB	2244	U	N1-C2-N3	8.56	120.03	114.90
25	BB	2357	G	N1-C6-O6	-8.55	114.77	119.90
25	BB	638	G	C2-N3-C4	8.55	116.18	111.90
25	BB	1391	U	C4-C5-C6	8.55	124.83	119.70
25	BB	2173	A	C2-N3-C4	8.55	114.88	110.60
25	BB	2572	A	C5-C6-N6	8.55	130.54	123.70
3	A1	47	C	O4'-C4'-C3'	8.55	112.94	106.10
3	A1	584	G	C3'-C2'-C1'	-8.55	94.66	101.50
25	BB	134	G	N3-C4-C5	-8.55	124.32	128.60
3	A1	137	U	C3'-C2'-C1'	8.55	108.34	101.50
3	A1	775	G	C5-N7-C8	-8.55	100.03	104.30
3	A1	809	G	N7-C8-N9	8.55	117.38	113.10
3	A1	941	G	N1-C6-O6	-8.55	114.77	119.90
25	BB	452	G	C5-C6-N1	8.55	115.78	111.50
25	BB	956	G	C8-N9-C4	-8.55	102.98	106.40
25	BB	1810	A	C8-N9-C4	-8.55	102.38	105.80
25	BB	1858	A	N1-C2-N3	-8.55	125.03	129.30
25	BB	168	G	N3-C2-N2	-8.55	113.92	119.90
25	BB	249	C	O4'-C1'-C2'	-8.55	97.25	105.80
25	BB	288	U	N3-C2-O2	-8.55	116.22	122.20
25	BB	656	G	N3-C2-N2	-8.55	113.92	119.90
25	BB	2383	G	C4-C5-N7	-8.55	107.38	110.80
25	BB	2856	A	C4-C5-C6	-8.55	112.73	117.00
3	A1	335	C	N1-C2-O2	8.54	124.03	118.90
3	A1	605	U	C5-C6-N1	-8.55	118.43	122.70
3	A1	1504	G	N3-C4-C5	-8.55	124.33	128.60
24	BA	26	C	O4'-C1'-C2'	-8.55	97.25	105.80
3	A1	403	C	N3-C4-N4	-8.54	112.02	118.00
3	A1	1250	A	C6-C5-N7	8.54	138.28	132.30
24	BA	98	G	N9-C4-C5	8.54	108.82	105.40
25	BB	465	G	C5-C6-O6	-8.54	123.47	128.60
25	BB	992	C	C4-C5-C6	8.54	121.67	117.40
25	BB	2276	G	C2-N3-C4	8.55	116.17	111.90
25	BB	2900	A	C6-N1-C2	-8.55	113.47	118.60
25	BB	1575	C	N3-C4-C5	-8.54	118.48	121.90
25	BB	1662	U	C5'-C4'-O4'	8.54	119.35	109.10
25	BB	1696	G	C5-C6-N1	8.54	115.77	111.50
25	BB	2132	U	O4'-C1'-N1	-8.54	101.36	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2550	G	N9-C4-C5	8.54	108.82	105.40
1	AE	24	G	N3-C4-C5	-8.54	124.33	128.60
3	A1	817	C	C5-C4-N4	8.54	126.18	120.20
3	A1	933	G	O4'-C1'-N9	8.54	115.03	108.20
3	A1	1131	G	C6-C5-N7	8.54	135.53	130.40
25	BB	225	C	N1-C2-O2	8.54	124.03	118.90
25	BB	1640	A	O4'-C1'-N9	8.54	115.03	108.20
25	BB	907	G	C8-N9-C4	-8.54	102.98	106.40
47	BX	4	ARG	NE-CZ-NH1	8.54	124.57	120.30
3	A1	22	G	C2-N3-C4	8.54	116.17	111.90
3	A1	420	U	N3-C2-O2	-8.54	116.22	122.20
3	A1	26	A	C6-C5-N7	8.54	138.28	132.30
3	A1	694	A	N9-C4-C5	8.54	109.22	105.80
3	A1	850	U	O4'-C1'-N1	8.54	115.03	108.20
25	BB	221	A	C5-C6-N1	8.54	121.97	117.70
25	BB	1450	G	C8-N9-C4	-8.54	102.98	106.40
25	BB	1597	A	C5-C6-N6	8.54	130.53	123.70
25	BB	1771	C	C2-N3-C4	-8.54	115.63	119.90
25	BB	2029	G	C6-C5-N7	8.54	135.52	130.40
25	BB	2074	U	C5-C6-N1	-8.54	118.43	122.70
25	BB	2478	A	N1-C6-N6	-8.54	113.48	118.60
3	A1	538	G	C8-N9-C4	-8.54	102.98	106.40
3	A1	1486	G	N3-C4-C5	-8.54	124.33	128.60
25	BB	1583	A	C5'-C4'-O4'	8.54	119.35	109.10
25	BB	2626	C	N1-C2-N3	8.54	125.18	119.20
25	BB	2714	G	C4-C5-N7	8.54	114.22	110.80
25	BB	2797	U	N1-C2-O2	8.54	128.78	122.80
25	BB	146	A	C4-C5-N7	-8.54	106.43	110.70
25	BB	528	A	C6-C5-N7	8.54	138.28	132.30
25	BB	761	A	C4-C5-N7	8.54	114.97	110.70
25	BB	2850	A	C4-C5-C6	-8.54	112.73	117.00
3	A1	195	A	C6-C5-N7	8.54	138.28	132.30
3	A1	377	G	C3'-C2'-C1'	-8.54	94.67	101.50
3	A1	682	G	N3-C4-C5	-8.54	124.33	128.60
3	A1	853	C	N3-C4-N4	-8.54	112.03	118.00
24	BA	8	C	N3-C4-N4	-8.54	112.03	118.00
25	BB	272	A	C6-N1-C2	-8.54	113.48	118.60
25	BB	674	G	C4'-C3'-C2'	-8.54	94.06	102.60
55	B6	13	ARG	NH1-CZ-NH2	-8.54	110.01	119.40
22	AW	90	ASP	CB-CG-OD1	-8.53	110.62	118.30
25	BB	562	U	N3-C2-O2	-8.53	116.23	122.20
25	BB	756	A	O4'-C1'-N9	8.53	115.03	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	847	U	N3-C4-C5	-8.54	109.48	114.60
25	BB	1243	C	N3-C2-O2	-8.54	115.93	121.90
25	BB	1487	U	C5-C6-N1	-8.54	118.43	122.70
25	BB	1874	C	N3-C2-O2	-8.54	115.93	121.90
25	BB	2418	A	C4-C5-N7	8.54	114.97	110.70
1	AE	53	G	C6-C5-N7	8.53	135.52	130.40
2	AM	17	U	C2-N3-C4	-8.53	121.88	127.00
25	BB	2010	G	C5-C6-N1	8.53	115.77	111.50
25	BB	2744	G	N3-C4-N9	8.53	131.12	126.00
25	BB	1250	G	N1-C6-O6	-8.53	114.78	119.90
25	BB	1478	G	N1-C2-N3	8.53	129.02	123.90
25	BB	1548	A	C5-C6-N1	8.53	121.97	117.70
25	BB	1714	U	C4-C5-C6	8.53	124.82	119.70
25	BB	2613	U	N3-C2-O2	-8.53	116.23	122.20
25	BB	2698	U	C4'-C3'-C2'	-8.53	94.07	102.60
3	A1	50	A	C2-N3-C4	8.53	114.86	110.60
3	A1	393	A	C2-N3-C4	8.53	114.86	110.60
25	BB	1310	G	N7-C8-N9	8.53	117.36	113.10
3	A1	390	U	O4'-C1'-N1	8.53	115.02	108.20
25	BB	269	C	N1-C2-O2	8.53	124.02	118.90
25	BB	327	G	N1-C6-O6	-8.53	114.78	119.90
25	BB	2341	G	C5'-C4'-C3'	-8.53	102.35	116.00
25	BB	2240	U	O4'-C1'-N1	8.53	115.02	108.20
25	BB	2708	G	O4'-C1'-N9	-8.53	101.38	108.20
3	A1	644	U	C4'-C3'-C2'	-8.53	94.07	102.60
3	A1	889	A	C6-C5-N7	8.53	138.27	132.30
3	A1	912	C	P-O3'-C3'	8.53	129.93	119.70
25	BB	301	G	N1-C6-O6	-8.53	114.78	119.90
25	BB	715	A	C8-N9-C4	-8.53	102.39	105.80
25	BB	2747	G	C4'-C3'-C2'	-8.53	94.07	102.60
25	BB	1495	A	C1'-O4'-C4'	8.53	116.72	109.90
25	BB	2171	A	N1-C6-N6	-8.53	113.48	118.60
3	A1	634	C	N3-C4-C5	8.52	125.31	121.90
3	A1	405	U	N3-C2-O2	-8.52	116.23	122.20
3	A1	1040	U	C5-C6-N1	-8.52	118.44	122.70
3	A1	1283	U	N3-C2-O2	-8.52	116.23	122.20
3	A1	1398	A	C5-N7-C8	8.52	108.16	103.90
25	BB	907	G	C6-C5-N7	8.52	135.51	130.40
25	BB	2294	G	C6-C5-N7	8.52	135.51	130.40
25	BB	696	G	N3-C2-N2	-8.52	113.94	119.90
25	BB	884	U	O4'-C1'-N1	8.52	115.02	108.20
25	BB	2281	A	N1-C2-N3	-8.52	125.04	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2553	G	C5-C6-N1	8.52	115.76	111.50
25	BB	2773	C	C5-C6-N1	-8.52	116.74	121.00
52	B3	151	ARG	NE-CZ-NH2	8.52	124.56	120.30
3	A1	1432	G	N1-C2-N3	8.52	129.01	123.90
25	BB	2817	U	N3-C4-O4	8.52	125.36	119.40
25	BB	1085	A	N9-C4-C5	8.52	109.21	105.80
25	BB	1460	U	N3-C2-O2	-8.52	116.24	122.20
25	BB	1631	G	C8-N9-C4	-8.52	102.99	106.40
25	BB	2634	A	N1-C2-N3	-8.52	125.04	129.30
25	BB	2813	A	N9-C4-C5	-8.52	102.39	105.80
3	A1	1269	A	C5-C6-N6	8.52	130.51	123.70
25	BB	20	C	C5-C6-N1	-8.52	116.74	121.00
3	A1	443	C	N3-C2-O2	-8.52	115.94	121.90
3	A1	642	A	N9-C4-C5	8.52	109.21	105.80
3	A1	1126	U	O4'-C4'-C3'	8.52	112.91	106.10
25	BB	590	A	C1'-O4'-C4'	-8.52	103.09	109.90
25	BB	204	A	C2-N3-C4	8.52	114.86	110.60
25	BB	250	G	C5-C6-N1	8.52	115.76	111.50
25	BB	669	G	C2-N3-C4	8.52	116.16	111.90
25	BB	2429	G	C5-C6-N1	8.52	115.76	111.50
25	BB	2867	G	N9-C4-C5	8.52	108.81	105.40
3	A1	95	C	C3'-C2'-C1'	8.51	108.31	101.50
3	A1	159	G	C5-C6-O6	8.51	133.71	128.60
3	A1	187	G	N1-C6-O6	-8.51	114.79	119.90
3	A1	504	C	C5-C6-N1	-8.51	116.74	121.00
3	A1	1355	G	C6-N1-C2	-8.51	119.99	125.10
25	BB	609	A	C5-C6-N1	8.51	121.96	117.70
25	BB	628	G	C5-C6-N1	8.51	115.76	111.50
25	BB	1617	C	N1-C2-O2	8.51	124.01	118.90
3	A1	1103	C	C4-C5-C6	-8.51	113.14	117.40
3	A1	1401	G	O4'-C1'-N9	8.51	115.01	108.20
25	BB	1064	C	C4-C5-C6	8.51	121.66	117.40
25	BB	1458	U	C3'-C2'-C1'	-8.51	94.69	101.50
25	BB	1156	A	C6-N1-C2	-8.51	113.49	118.60
25	BB	1607	C	O3'-P-O5'	8.51	120.17	104.00
25	BB	1875	G	N7-C8-N9	8.51	117.36	113.10
25	BB	2241	A	O4'-C4'-C3'	8.51	112.91	106.10
25	BB	2335	A	C5-C6-N6	8.51	130.51	123.70
25	BB	2625	G	N1-C6-O6	-8.51	114.79	119.90
1	AP	27	C	N3-C2-O2	-8.51	115.94	121.90
3	A1	589	U	C5-C6-N1	-8.51	118.44	122.70
3	A1	1232	U	C6-N1-C2	-8.51	115.89	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1281	C	C5'-C4'-O4'	8.51	119.31	109.10
25	BB	1355	G	C4-C5-C6	-8.51	113.69	118.80
25	BB	1435	G	C5-C6-N1	8.51	115.75	111.50
25	BB	2351	G	C5-C6-O6	8.51	133.71	128.60
25	BB	2591	C	N3-C4-N4	-8.51	112.04	118.00
25	BB	2832	U	C5-C6-N1	-8.51	118.45	122.70
3	A1	362	G	C5-N7-C8	-8.51	100.05	104.30
3	A1	448	A	C4-C5-C6	-8.51	112.75	117.00
3	A1	1452	C	N3-C4-N4	-8.51	112.05	118.00
3	A1	496	A	C2-N3-C4	8.51	114.85	110.60
3	A1	676	A	C6-N1-C2	-8.51	113.50	118.60
3	A1	1221	G	C8-N9-C4	-8.51	103.00	106.40
24	BA	84	G	C6-N1-C2	-8.51	120.00	125.10
25	BB	1269	A	C5-N7-C8	-8.51	99.65	103.90
25	BB	1914	C	N3-C2-O2	-8.51	115.94	121.90
25	BB	2294	G	N9-C4-C5	8.51	108.80	105.40
25	BB	2550	G	C6-N1-C2	-8.51	120.00	125.10
3	A1	902	G	N9-C4-C5	8.51	108.80	105.40
25	BB	622	G	C5-C6-N1	8.51	115.75	111.50
25	BB	994	C	N3-C4-C5	8.51	125.30	121.90
25	BB	1758	U	C1'-O4'-C4'	-8.51	103.10	109.90
25	BB	2488	G	C4-C5-C6	-8.51	113.70	118.80
25	BB	2894	G	N1-C2-N2	8.51	123.85	116.20
47	BX	24	ARG	CD-NE-CZ	8.51	135.51	123.60
3	A1	75	G	C8-N9-C4	-8.50	103.00	106.40
3	A1	889	A	O4'-C1'-N9	8.50	115.00	108.20
3	A1	1440	U	C5-C6-N1	-8.50	118.45	122.70
25	BB	799	G	N7-C8-N9	8.50	117.35	113.10
25	BB	682	G	N1-C6-O6	-8.50	114.80	119.90
25	BB	1073	A	C1'-O4'-C4'	-8.50	103.10	109.90
25	BB	1658	C	N3-C4-C5	8.50	125.30	121.90
25	BB	1857	G	C5-C6-O6	-8.50	123.50	128.60
25	BB	1959	G	C1'-O4'-C4'	-8.50	103.10	109.90
25	BB	2358	A	C6-N1-C2	-8.50	113.50	118.60
25	BB	2886	A	C6-C5-N7	8.50	138.25	132.30
1	AA	29	A	C5-N7-C8	-8.50	99.65	103.90
1	AE	22	G	N1-C2-N3	8.50	129.00	123.90
3	A1	176	C	C5-C6-N1	-8.50	116.75	121.00
3	A1	1180	A	C6-C5-N7	8.50	138.25	132.30
3	A1	1404	C	N3-C4-N4	-8.50	112.05	118.00
6	AD	35	ARG	CD-NE-CZ	8.50	135.50	123.60
25	BB	115	C	C5-C6-N1	8.50	125.25	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	497	A	N1-C2-N3	-8.50	125.05	129.30
25	BB	600	G	N9-C4-C5	8.50	108.80	105.40
25	BB	1367	A	N7-C8-N9	-8.50	109.55	113.80
3	A1	357	G	N1-C6-O6	-8.50	114.80	119.90
25	BB	638	G	N3-C2-N2	8.50	125.85	119.90
3	A1	291	U	C4-C5-C6	8.50	124.80	119.70
3	A1	483	C	N3-C2-O2	-8.50	115.95	121.90
3	A1	1038	C	C5-C6-N1	-8.50	116.75	121.00
3	A1	1316	G	C5-C6-N1	8.50	115.75	111.50
25	BB	708	G	N7-C8-N9	8.50	117.35	113.10
25	BB	792	A	C4-C5-C6	-8.50	112.75	117.00
25	BB	2473	U	C6-N1-C2	-8.50	115.90	121.00
25	BB	788	A	N9-C4-C5	8.50	109.20	105.80
25	BB	1336	A	C8-N9-C4	-8.50	102.40	105.80
25	BB	2874	C	N3-C2-O2	-8.50	115.95	121.90
1	AA	57	G	C6-C5-N7	8.49	135.50	130.40
3	A1	72	A	C4-C5-C6	-8.49	112.75	117.00
3	A1	1175	G	C4'-C3'-C2'	-8.49	94.11	102.60
3	A1	1352	C	C5-C4-N4	8.49	126.15	120.20
25	BB	563	A	C2-N3-C4	8.49	114.85	110.60
25	BB	1174	U	N1-C2-N3	8.49	120.00	114.90
3	A1	432	A	C4-C5-C6	-8.49	112.75	117.00
24	BA	56	G	C8-N9-C4	-8.49	103.00	106.40
3	A1	532	A	N1-C2-N3	-8.49	125.05	129.30
3	A1	778	G	C5-N7-C8	-8.49	100.05	104.30
3	A1	833	G	C6-C5-N7	8.49	135.50	130.40
25	BB	71	A	C6-C5-N7	8.49	138.25	132.30
25	BB	669	G	C6-N1-C2	-8.49	120.00	125.10
25	BB	1169	A	C4-C5-N7	8.49	114.95	110.70
25	BB	2244	U	C1'-O4'-C4'	-8.49	103.10	109.90
3	A1	895	G	C6-N1-C2	-8.49	120.00	125.10
25	BB	1654	A	C6-C5-N7	8.49	138.25	132.30
25	BB	2454	G	N7-C8-N9	8.49	117.35	113.10
25	BB	2554	U	N1-C2-O2	8.49	128.75	122.80
25	BB	2619	C	C2-N3-C4	-8.49	115.65	119.90
1	AP	65	G	N1-C6-O6	-8.49	114.81	119.90
3	A1	91	U	C6-N1-C2	-8.49	115.91	121.00
3	A1	378	G	C5-C6-O6	8.49	133.69	128.60
3	A1	745	G	N1-C2-N3	8.49	129.00	123.90
3	A1	1181	G	N9-C4-C5	-8.49	102.00	105.40
3	A1	1279	G	C8-N9-C4	-8.49	103.00	106.40
3	A1	1419	G	N7-C8-N9	8.49	117.34	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	AT	38	ARG	NE-CZ-NH1	8.49	124.55	120.30
3	A1	314	C	C2-N3-C4	-8.49	115.66	119.90
3	A1	1101	A	C5-N7-C8	-8.49	99.66	103.90
25	BB	110	G	N1-C2-N3	8.49	128.99	123.90
25	BB	447	A	N1-C6-N6	-8.49	113.51	118.60
25	BB	617	G	N1-C2-N3	8.49	128.99	123.90
25	BB	1754	A	C6-N1-C2	-8.49	113.50	118.60
25	BB	1074	G	N3-C2-N2	-8.49	113.96	119.90
25	BB	1132	U	O4'-C1'-N1	8.49	114.99	108.20
25	BB	1832	C	C5-C4-N4	8.49	126.14	120.20
25	BB	2070	A	C6-C5-N7	8.49	138.24	132.30
25	BB	2209	G	C4-C5-C6	-8.49	113.71	118.80
25	BB	2274	A	C5-N7-C8	-8.49	99.66	103.90
25	BB	2870	C	C4-C5-C6	-8.49	113.16	117.40
3	A1	377	G	C4-C5-N7	-8.49	107.41	110.80
3	A1	631	C	C5-C6-N1	-8.49	116.76	121.00
25	BB	1196	C	N3-C2-O2	-8.49	115.96	121.90
3	A1	666	G	N3-C2-N2	-8.49	113.96	119.90
3	A1	862	C	O4'-C1'-N1	8.49	114.99	108.20
3	A1	925	G	C5-C6-N1	8.49	115.74	111.50
3	A1	1139	G	C5-C6-O6	-8.49	123.51	128.60
25	BB	1083	U	C5'-C4'-C3'	-8.49	102.42	116.00
25	BB	1254	A	C4-C5-N7	-8.49	106.46	110.70
25	BB	1317	G	C4'-C3'-C2'	-8.49	94.11	102.60
25	BB	1382	G	N9-C4-C5	-8.49	102.00	105.40
25	BB	2334	U	C2-N3-C4	-8.49	121.91	127.00
25	BB	2406	A	C6-C5-N7	8.49	138.24	132.30
25	BB	2722	G	C6-C5-N7	-8.49	125.31	130.40
3	A1	1382	C	N3-C4-C5	8.48	125.29	121.90
25	BB	68	G	N3-C4-C5	-8.48	124.36	128.60
25	BB	136	G	C5-C6-N1	8.48	115.74	111.50
3	A1	355	C	C2-N3-C4	-8.48	115.66	119.90
3	A1	468	A	C3'-C2'-C1'	8.48	108.29	101.50
3	A1	670	G	N3-C2-N2	-8.48	113.96	119.90
3	A1	969	A	C8-N9-C4	8.48	109.19	105.80
3	A1	1331	G	N1-C2-N2	-8.48	108.56	116.20
25	BB	1741	C	C3'-C2'-C1'	-8.48	94.71	101.50
25	BB	2644	G	C3'-C2'-C1'	8.48	108.29	101.50
3	A1	1377	A	N1-C2-N3	-8.48	125.06	129.30
25	BB	41	C	N1-C2-O2	8.48	123.99	118.90
25	BB	612	G	N9-C1'-C2'	-8.48	102.67	112.00
25	BB	678	C	N3-C4-N4	-8.48	112.06	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2208	C	C5'-C4'-C3'	-8.48	102.43	116.00
3	A1	97	G	C8-N9-C4	-8.48	103.01	106.40
25	BB	2219	U	C2-N3-C4	-8.48	121.91	127.00
3	A1	1057	G	C5-C6-N1	8.48	115.74	111.50
3	A1	1355	G	C5-C6-N1	8.48	115.74	111.50
24	BA	70	C	C2-N3-C4	-8.48	115.66	119.90
25	BB	374	A	C4-C5-C6	-8.48	112.76	117.00
25	BB	765	C	C6-N1-C2	-8.48	116.91	120.30
25	BB	1487	U	O4'-C1'-N1	8.48	114.98	108.20
25	BB	2262	U	N3-C2-O2	-8.48	116.26	122.20
25	BB	2892	G	C4-C5-N7	-8.48	107.41	110.80
1	AE	67	A	C5-C6-N1	8.48	121.94	117.70
3	A1	792	A	C5-C6-N6	8.48	130.48	123.70
3	A1	1534	A	C4-C5-C6	-8.48	112.76	117.00
25	BB	108	G	N3-C4-C5	-8.48	124.36	128.60
3	A1	829	G	N1-C6-O6	-8.48	114.81	119.90
3	A1	1185	G	N1-C2-N2	-8.48	108.57	116.20
25	BB	223	A	C5-C6-N6	8.48	130.48	123.70
25	BB	339	U	N3-C4-C5	8.48	119.69	114.60
25	BB	380	G	C6-N1-C2	-8.48	120.01	125.10
25	BB	837	C	N1-C2-O2	8.48	123.99	118.90
25	BB	972	A	C6-N1-C2	-8.48	113.51	118.60
25	BB	2038	G	O4'-C4'-C3'	-8.48	95.52	104.00
25	BB	1222	U	N1-C2-O2	8.48	128.73	122.80
25	BB	2059	A	C6-N1-C2	-8.48	113.51	118.60
25	BB	2495	G	P-O3'-C3'	8.48	129.87	119.70
3	A1	128	G	C6-C5-N7	8.47	135.48	130.40
3	A1	350	G	N3-C4-N9	8.47	131.08	126.00
3	A1	396	C	C2-N3-C4	-8.47	115.66	119.90
3	A1	713	G	O4'-C4'-C3'	-8.47	95.53	104.00
3	A1	930	C	O4'-C1'-N1	8.47	114.98	108.20
25	BB	247	G	N1-C6-O6	-8.47	114.81	119.90
25	BB	583	G	C5-C6-O6	8.47	133.69	128.60
25	BB	770	G	C1'-O4'-C4'	-8.47	103.12	109.90
25	BB	814	C	N3-C4-N4	-8.47	112.07	118.00
25	BB	1952	A	C2-N3-C4	-8.47	106.36	110.60
37	BN	269	ARG	NH1-CZ-NH2	-8.47	110.08	119.40
3	A1	1392	G	C6-C5-N7	8.47	135.48	130.40
24	BA	40	U	C6-N1-C2	-8.47	115.92	121.00
25	BB	398	C	C4-C5-C6	-8.47	113.16	117.40
25	BB	435	C	N3-C4-N4	-8.47	112.07	118.00
25	BB	1006	C	C5'-C4'-O4'	8.47	119.27	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1393	A	C8-N9-C4	8.47	109.19	105.80
25	BB	1470	A	O4'-C1'-C2'	-8.47	97.33	105.80
25	BB	1866	A	C3'-C2'-C1'	8.47	108.28	101.50
3	A1	992	U	C4-C5-C6	8.47	124.78	119.70
3	A1	1139	G	C8-N9-C4	8.47	109.79	106.40
25	BB	342	A	N9-C4-C5	8.47	109.19	105.80
25	BB	2272	U	N3-C2-O2	-8.47	116.27	122.20
3	A1	359	G	C5-C6-N1	8.47	115.73	111.50
24	BA	20	G	C8-N9-C4	-8.47	103.01	106.40
25	BB	121	G	C4-C5-N7	8.47	114.19	110.80
25	BB	548	G	C8-N9-C4	-8.47	103.01	106.40
25	BB	616	A	N1-C6-N6	-8.47	113.52	118.60
25	BB	776	G	N1-C2-N2	-8.47	108.58	116.20
25	BB	783	A	O4'-C1'-N9	8.47	114.98	108.20
25	BB	927	A	C2-N3-C4	8.47	114.83	110.60
25	BB	1820	U	O4'-C4'-C3'	8.47	112.88	106.10
25	BB	1902	C	C6-N1-C2	-8.47	116.91	120.30
25	BB	2443	C	C1'-O4'-C4'	-8.47	103.12	109.90
25	BB	2602	A	C4-C5-C6	-8.47	112.76	117.00
3	A1	105	G	N1-C2-N3	8.47	128.98	123.90
25	BB	689	A	N1-C2-N3	-8.47	125.06	129.30
25	BB	1025	G	C5-N7-C8	-8.47	100.06	104.30
25	BB	1148	U	C6-N1-C2	8.47	126.08	121.00
3	A1	82	G	C6-N1-C2	-8.47	120.02	125.10
3	A1	196	A	O4'-C1'-N9	8.47	114.97	108.20
3	A1	1151	A	C6-N1-C2	8.47	123.68	118.60
22	AW	90	ASP	CB-CG-OD2	8.47	125.92	118.30
3	A1	1486	G	N1-C6-O6	-8.47	114.82	119.90
3	A1	39	G	N1-C6-O6	-8.46	114.82	119.90
11	AJ	76	ARG	NH1-CZ-NH2	-8.46	110.09	119.40
24	BA	54	G	C6-C5-N7	8.46	135.48	130.40
25	BB	1501	G	O4'-C1'-C2'	8.47	115.22	107.60
25	BB	739	A	C6-C5-N7	8.46	138.22	132.30
25	BB	788	A	C6-N1-C2	-8.46	113.52	118.60
25	BB	2798	U	N3-C2-O2	-8.46	116.28	122.20
25	BB	2242	G	C4-C5-N7	-8.46	107.42	110.80
25	BB	2640	G	N3-C2-N2	-8.46	113.98	119.90
1	AP	20	G	C5-C6-N1	8.46	115.73	111.50
3	A1	61	G	N9-C1'-C2'	-8.46	102.69	112.00
3	A1	951	G	C5-C6-N1	-8.46	107.27	111.50
3	A1	999	C	C4-C5-C6	-8.46	113.17	117.40
25	BB	55	G	C3'-C2'-C1'	8.46	108.27	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	199	A	C4-C5-C6	-8.46	112.77	117.00
25	BB	261	G	N3-C4-C5	-8.46	124.37	128.60
25	BB	820	A	C2-N3-C4	8.46	114.83	110.60
25	BB	983	A	C5-C6-N1	8.46	121.93	117.70
25	BB	1441	G	C4-C5-C6	-8.46	113.72	118.80
1	AA	20	G	N9-C1'-C2'	-8.46	102.70	112.00
1	AP	2	C	N1-C2-N3	8.46	125.12	119.20
3	A1	198	G	N7-C8-N9	-8.46	108.87	113.10
3	A1	1186	G	C4-C5-C6	-8.46	113.72	118.80
25	BB	120	U	N1-C2-O2	8.46	128.72	122.80
25	BB	556	A	C6-C5-N7	8.46	138.22	132.30
25	BB	861	A	C2-N3-C4	8.46	114.83	110.60
25	BB	2227	A	C5-C6-N1	8.46	121.93	117.70
3	A1	938	A	P-O3'-C3'	8.46	129.85	119.70
24	BA	28	C	C5-C6-N1	-8.46	116.77	121.00
25	BB	154	U	N3-C2-O2	-8.46	116.28	122.20
25	BB	1109	C	N3-C4-C5	-8.46	118.52	121.90
25	BB	1713	A	C6-N1-C2	-8.46	113.53	118.60
25	BB	1707	G	N9-C4-C5	8.46	108.78	105.40
25	BB	2492	U	N3-C2-O2	-8.46	116.28	122.20
1	AP	9	A	C4-C5-N7	8.46	114.93	110.70
25	BB	343	C	C5-C4-N4	8.46	126.12	120.20
3	A1	171	A	C5'-C4'-C3'	-8.45	102.47	116.00
3	A1	207	C	N1-C2-O2	8.45	123.97	118.90
3	A1	537	G	N9-C4-C5	-8.45	102.02	105.40
3	A1	925	G	N3-C2-N2	-8.45	113.98	119.90
3	A1	1079	G	N7-C8-N9	8.45	117.33	113.10
3	A1	1161	C	N3-C4-C5	8.45	125.28	121.90
24	BA	48	U	C5-C4-O4	-8.46	120.83	125.90
25	BB	126	A	C6-C5-N7	8.45	138.22	132.30
25	BB	633	A	C2-N3-C4	8.46	114.83	110.60
25	BB	797	G	C4-C5-C6	-8.46	113.73	118.80
25	BB	1570	A	C8-N9-C4	-8.45	102.42	105.80
25	BB	2062	A	C6-N1-C2	-8.45	113.53	118.60
25	BB	2320	U	N1-C2-N3	8.46	119.97	114.90
25	BB	2553	G	N1-C6-O6	-8.46	114.83	119.90
25	BB	2724	U	O4'-C4'-C3'	8.45	112.86	106.10
25	BB	2888	C	C5-C6-N1	-8.45	116.77	121.00
3	A1	300	A	C8-N9-C4	8.45	109.18	105.80
25	BB	257	C	C4-C5-C6	8.45	121.63	117.40
25	BB	409	G	C5-C6-O6	-8.45	123.53	128.60
25	BB	2044	C	N3-C2-O2	-8.45	115.98	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	345	A	C2-N3-C4	8.45	114.83	110.60
25	BB	574	A	C6-C5-N7	8.45	138.22	132.30
25	BB	1998	A	C2-N3-C4	8.45	114.83	110.60
3	A1	889	A	C4-C5-C6	-8.45	112.78	117.00
3	A1	1024	G	C5-C6-N1	8.45	115.72	111.50
3	A1	1361	G	N9-C4-C5	8.45	108.78	105.40
10	AI	23	ASP	OD1-CG-OD2	-8.45	107.24	123.30
24	BA	79	G	N3-C2-N2	8.45	125.81	119.90
25	BB	1292	G	N7-C8-N9	8.45	117.33	113.10
24	BA	10	G	C6-N1-C2	-8.45	120.03	125.10
25	BB	17	G	C4'-C3'-C2'	8.45	111.05	102.60
25	BB	2213	U	N1-C2-O2	8.45	128.71	122.80
45	BV	21	ARG	NE-CZ-NH1	8.45	124.52	120.30
55	B6	49	ASP	CB-CG-OD2	8.45	125.90	118.30
1	AE	54	U	N1-C2-O2	8.45	128.71	122.80
3	A1	998	C	C5-C6-N1	-8.45	116.78	121.00
3	A1	1059	C	C5'-C4'-O4'	8.45	119.24	109.10
1	AP	5	A	C6-C5-N7	8.44	138.21	132.30
3	A1	136	C	O4'-C1'-N1	8.44	114.95	108.20
3	A1	528	C	N1-C2-O2	8.45	123.97	118.90
3	A1	1224	U	O4'-C1'-C2'	-8.45	97.36	105.80
3	A1	1270	G	O5'-P-OP2	-8.45	98.10	105.70
25	BB	222	A	C4-C5-C6	-8.45	112.78	117.00
25	BB	23	G	P-O3'-C3'	8.45	129.83	119.70
25	BB	1618	A	N1-C6-N6	-8.45	113.53	118.60
25	BB	2249	U	C6-N1-C2	-8.45	115.93	121.00
25	BB	55	G	N3-C4-C5	-8.44	124.38	128.60
25	BB	619	G	C5-N7-C8	-8.44	100.08	104.30
25	BB	949	G	N3-C4-C5	-8.44	124.38	128.60
25	BB	2307	G	C4-C5-N7	8.45	114.18	110.80
3	A1	189	A	C5-C6-N1	8.44	121.92	117.70
3	A1	433	G	N1-C6-O6	-8.44	114.83	119.90
3	A1	765	G	N3-C4-C5	-8.44	124.38	128.60
25	BB	954	G	C4-C5-C6	-8.44	113.73	118.80
25	BB	1723	G	C5'-C4'-O4'	8.44	119.23	109.10
25	BB	1733	G	N7-C8-N9	-8.44	108.88	113.10
25	BB	2118	U	C5-C6-N1	-8.44	118.48	122.70
25	BB	2252	G	O4'-C1'-N9	8.44	114.95	108.20
25	BB	2541	A	C8-N9-C4	8.44	109.18	105.80
25	BB	2656	U	N3-C2-O2	-8.44	116.29	122.20
3	A1	36	C	N1-C2-N3	8.44	125.11	119.20
3	A1	38	G	C6-C5-N7	8.44	135.46	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	462	G	C5-C6-O6	8.44	133.66	128.60
3	A1	325	A	N9-C4-C5	-8.44	102.42	105.80
3	A1	1333	A	C5-C6-N1	8.44	121.92	117.70
25	BB	241	A	N9-C4-C5	-8.44	102.42	105.80
25	BB	1257	C	O4'-C1'-N1	8.44	114.95	108.20
25	BB	361	G	C4-C5-C6	-8.44	113.74	118.80
25	BB	825	A	O4'-C1'-N9	8.44	114.95	108.20
25	BB	1190	G	N9-C4-C5	8.44	108.78	105.40
25	BB	1547	C	N3-C4-N4	-8.44	112.09	118.00
25	BB	1590	A	C3'-C2'-C1'	8.44	108.25	101.50
25	BB	2123	G	C5'-C4'-O4'	8.44	119.23	109.10
1	AP	26	G	C5-C6-O6	8.44	133.66	128.60
3	A1	195	A	C3'-C2'-C1'	8.44	108.25	101.50
3	A1	1461	G	C4-C5-N7	8.44	114.17	110.80
17	AR	25	ARG	NE-CZ-NH2	8.44	124.52	120.30
25	BB	240	C	O4'-C1'-N1	8.44	114.95	108.20
25	BB	890	C	C2-N3-C4	-8.44	115.68	119.90
25	BB	400	G	N7-C8-N9	8.44	117.32	113.10
25	BB	682	G	N9-C4-C5	8.44	108.77	105.40
25	BB	2792	A	N7-C8-N9	8.44	118.02	113.80
3	A1	31	G	C6-C5-N7	8.43	135.46	130.40
3	A1	117	G	N1-C6-O6	-8.43	114.84	119.90
3	A1	252	U	N3-C4-O4	-8.43	113.50	119.40
3	A1	374	A	C8-N9-C4	-8.43	102.43	105.80
3	A1	1257	A	C4'-C3'-C2'	-8.43	94.17	102.60
3	A1	1287	A	C6-N1-C2	-8.43	113.54	118.60
3	A1	1478	U	N3-C2-O2	-8.43	116.30	122.20
3	A1	1304	G	N1-C2-N2	-8.43	108.61	116.20
25	BB	106	C	C5-C6-N1	-8.43	116.78	121.00
25	BB	494	G	C5-N7-C8	-8.43	100.08	104.30
25	BB	722	A	C5-N7-C8	8.43	108.12	103.90
25	BB	930	G	N3-C4-N9	8.43	131.06	126.00
25	BB	2486	C	N3-C4-C5	8.43	125.27	121.90
25	BB	2567	G	C5-C6-N1	8.43	115.72	111.50
25	BB	2728	U	C5-C4-O4	8.43	130.96	125.90
1	AP	70	C	C4-C5-C6	-8.43	113.19	117.40
1	AE	18	G	N1-C2-N2	-8.43	108.61	116.20
3	A1	192	A	C4-C5-C6	-8.43	112.78	117.00
3	A1	669	G	N1-C6-O6	-8.43	114.84	119.90
3	A1	1281	C	N1-C2-O2	8.43	123.96	118.90
3	A1	1403	C	O4'-C1'-N1	8.43	114.94	108.20
25	BB	617	G	N1-C2-N2	-8.43	108.61	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1308	A	C6-N1-C2	-8.43	113.54	118.60
25	BB	1309	G	C5-N7-C8	-8.43	100.08	104.30
25	BB	1406	U	C3'-C2'-C1'	8.43	108.24	101.50
25	BB	2820	A	C3'-C2'-C1'	8.43	108.24	101.50
3	A1	223	A	C3'-C2'-C1'	8.43	108.24	101.50
3	A1	811	C	C4-C5-C6	8.43	121.61	117.40
3	A1	1046	A	C4-C5-N7	-8.43	106.48	110.70
3	A1	1385	G	N1-C2-N3	8.43	128.96	123.90
25	BB	232	G	N1-C6-O6	-8.43	114.84	119.90
25	BB	648	G	N7-C8-N9	8.43	117.31	113.10
25	BB	1300	G	C5-C6-O6	-8.43	123.54	128.60
25	BB	2254	C	N3-C4-C5	8.43	125.27	121.90
1	AA	24	G	C6-C5-N7	8.43	135.46	130.40
3	A1	270	A	N1-C6-N6	-8.43	113.55	118.60
3	A1	364	A	C6-C5-N7	8.43	138.20	132.30
3	A1	1299	A	C6-C5-N7	8.43	138.20	132.30
25	BB	88	G	C6-N1-C2	-8.43	120.04	125.10
25	BB	966	G	N9-C4-C5	8.43	108.77	105.40
25	BB	1096	A	N9-C4-C5	-8.43	102.43	105.80
25	BB	1866	A	C4-C5-C6	-8.43	112.79	117.00
25	BB	2287	A	C4-C5-C6	-8.43	112.79	117.00
25	BB	193	U	N3-C4-O4	8.43	125.30	119.40
25	BB	462	C	N1-C2-O2	8.43	123.95	118.90
25	BB	1343	G	C5-N7-C8	-8.43	100.09	104.30
25	BB	1756	G	C4-C5-N7	-8.43	107.43	110.80
25	BB	2376	A	C4'-C3'-C2'	-8.43	94.17	102.60
3	A1	107	G	N1-C6-O6	-8.42	114.85	119.90
3	A1	527	G	C5-N7-C8	-8.42	100.09	104.30
3	A1	444	G	N9-C1'-C2'	-8.42	102.74	112.00
3	A1	585	G	C6-N1-C2	-8.42	120.05	125.10
24	BA	17	C	C5-C4-N4	-8.42	114.30	120.20
25	BB	1215	G	C8-N9-C4	-8.42	103.03	106.40
20	AU	95	ARG	CD-NE-CZ	8.42	135.39	123.60
24	BA	50	A	N1-C6-N6	-8.42	113.55	118.60
25	BB	709	U	N3-C4-O4	8.42	125.30	119.40
25	BB	1127	A	N1-C6-N6	-8.42	113.55	118.60
25	BB	2546	U	C5-C6-N1	-8.42	118.49	122.70
25	BB	1245	G	C5'-C4'-O4'	8.42	119.21	109.10
25	BB	1384	A	O4'-C1'-N9	8.42	114.94	108.20
25	BB	1419	A	C5-C6-N1	8.42	121.91	117.70
25	BB	2351	G	N1-C6-O6	-8.42	114.85	119.90
1	AP	28	C	N3-C4-N4	-8.42	112.11	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	300	A	O4'-C1'-N9	8.42	114.94	108.20
3	A1	839	C	C5-C6-N1	-8.42	116.79	121.00
3	A1	1343	G	N1-C6-O6	-8.42	114.85	119.90
21	AV	83	ARG	NE-CZ-NH2	8.42	124.51	120.30
25	BB	26	G	N7-C8-N9	8.42	117.31	113.10
25	BB	1479	G	C4-C5-N7	8.42	114.17	110.80
25	BB	2637	U	O4'-C4'-C3'	8.42	112.84	106.10
25	BB	653	U	O4'-C1'-N1	8.42	114.94	108.20
25	BB	916	G	C5-C6-O6	8.42	133.65	128.60
25	BB	1181	U	C4-C5-C6	8.42	124.75	119.70
25	BB	1493	C	C3'-C2'-C1'	8.42	108.23	101.50
25	BB	1877	A	N9-C4-C5	8.42	109.17	105.80
3	A1	319	G	N1-C6-O6	-8.42	114.85	119.90
3	A1	320	A	C8-N9-C4	8.42	109.17	105.80
3	A1	611	C	C5-C6-N1	-8.42	116.79	121.00
3	A1	979	C	N1-C2-O2	8.42	123.95	118.90
3	A1	1061	G	C3'-C2'-C1'	8.42	108.23	101.50
3	A1	1463	U	C5-C6-N1	-8.42	118.49	122.70
25	BB	725	G	C5-N7-C8	-8.42	100.09	104.30
25	BB	1089	A	C6-C5-N7	8.42	138.19	132.30
25	BB	1292	G	N9-C4-C5	8.42	108.77	105.40
25	BB	1622	G	C8-N9-C4	-8.42	103.03	106.40
25	BB	1698	A	C5-C6-N1	8.42	121.91	117.70
25	BB	2440	C	N3-C4-N4	-8.42	112.11	118.00
3	A1	513	C	C2-N3-C4	-8.41	115.69	119.90
25	BB	1973	G	C4'-C3'-C2'	-8.41	94.19	102.60
25	BB	2157	G	C3'-C2'-C1'	8.41	108.23	101.50
25	BB	2729	G	N1-C6-O6	-8.41	114.85	119.90
3	A1	54	C	N3-C4-C5	8.41	125.27	121.90
3	A1	930	C	C4'-C3'-C2'	-8.41	94.19	102.60
25	BB	48	G	O4'-C1'-N9	8.41	114.93	108.20
25	BB	1211	C	O4'-C1'-N1	8.41	114.93	108.20
25	BB	1588	G	P-O3'-C3'	8.41	129.79	119.70
1	AA	15	G	N9-C4-C5	8.41	108.76	105.40
1	AA	21	A	C2-N3-C4	8.41	114.81	110.60
3	A1	249	U	O4'-C1'-C2'	8.41	115.17	107.60
25	BB	986	C	C4-C5-C6	8.41	121.60	117.40
25	BB	1004	U	N3-C4-O4	8.41	125.29	119.40
25	BB	1267	U	N1-C2-N3	8.41	119.94	114.90
25	BB	1310	G	O4'-C1'-N9	8.41	114.93	108.20
25	BB	1426	G	N1-C6-O6	-8.41	114.85	119.90
25	BB	1948	G	N3-C4-C5	-8.41	124.40	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2632	A	N1-C6-N6	-8.41	113.55	118.60
25	BB	2666	C	O4'-C1'-N1	8.41	114.93	108.20
25	BB	2733	A	C5-C6-N1	8.41	121.91	117.70
25	BB	2798	U	N1-C2-N3	8.41	119.94	114.90
32	BI	61	ARG	NE-CZ-NH1	8.41	124.50	120.30
3	A1	112	G	C5-C6-N1	8.41	115.70	111.50
3	A1	324	G	C4-C5-N7	8.41	114.16	110.80
3	A1	960	U	N1-C2-O2	8.41	128.69	122.80
3	A1	1411	C	N3-C4-C5	8.41	125.26	121.90
25	BB	1830	C	O4'-C1'-N1	-8.41	101.47	108.20
25	BB	1876	A	C4-C5-C6	-8.41	112.80	117.00
25	BB	2190	G	C6-N1-C2	-8.41	120.06	125.10
3	A1	1228	C	O4'-C4'-C3'	8.41	112.83	106.10
25	BB	114	U	C2-N3-C4	-8.41	121.96	127.00
25	BB	858	G	O4'-C1'-C2'	8.41	115.17	107.60
25	BB	1735	A	N9-C4-C5	8.41	109.16	105.80
25	BB	2835	A	C5-C6-N6	8.41	130.43	123.70
1	AA	59	U	C5-C4-O4	-8.40	120.86	125.90
1	AP	42	G	N3-C4-C5	-8.40	124.40	128.60
3	A1	16	A	C5-N7-C8	-8.40	99.70	103.90
25	BB	456	C	C5-C4-N4	-8.40	114.32	120.20
1	AP	72	C	C5-C6-N1	-8.40	116.80	121.00
3	A1	355	C	C6-N1-C2	-8.40	116.94	120.30
3	A1	1295	U	N3-C2-O2	-8.40	116.32	122.20
25	BB	437	U	C3'-C2'-C1'	-8.40	94.78	101.50
3	A1	1366	C	N3-C4-N4	-8.40	112.12	118.00
25	BB	177	G	C2-N3-C4	8.40	116.10	111.90
25	BB	473	G	C4'-C3'-C2'	-8.40	94.20	102.60
25	BB	773	U	C3'-C2'-C1'	-8.40	94.78	101.50
25	BB	1383	A	C6-C5-N7	8.40	138.18	132.30
25	BB	1507	C	N1-C2-O2	8.40	123.94	118.90
25	BB	1805	A	C6-C5-N7	8.40	138.18	132.30
25	BB	2482	A	N1-C6-N6	-8.40	113.56	118.60
25	BB	2681	C	C6-N1-C2	-8.40	116.94	120.30
25	BB	2708	G	C4-C5-C6	-8.40	113.76	118.80
3	A1	1420	U	C5'-C4'-O4'	8.40	119.18	109.10
25	BB	1361	G	N3-C4-N9	8.40	131.04	126.00
25	BB	2322	A	N1-C2-N3	-8.40	125.10	129.30
3	A1	378	G	N3-C4-C5	-8.40	124.40	128.60
3	A1	1189	U	N3-C2-O2	-8.40	116.32	122.20
15	AO	171	ARG	NE-CZ-NH2	8.40	124.50	120.30
24	BA	23	G	N3-C4-C5	-8.40	124.40	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1459	G	N3-C4-C5	-8.40	124.40	128.60
25	BB	1506	U	C5-C4-O4	8.40	130.94	125.90
25	BB	2091	C	C2-N3-C4	-8.40	115.70	119.90
25	BB	2157	G	C6-N1-C2	-8.40	120.06	125.10
25	BB	2885	G	N1-C6-O6	-8.40	114.86	119.90
3	A1	118	U	C3'-C2'-C1'	8.40	108.22	101.50
3	A1	232	G	C5-C6-O6	8.40	133.64	128.60
3	A1	269	C	C5-C4-N4	-8.40	114.32	120.20
3	A1	364	A	N9-C4-C5	8.40	109.16	105.80
3	A1	1277	C	C2-N3-C4	-8.40	115.70	119.90
25	BB	1154	G	C5-C6-O6	8.40	133.64	128.60
25	BB	2228	G	N9-C4-C5	8.40	108.76	105.40
3	A1	338	A	C5-N7-C8	-8.40	99.70	103.90
3	A1	508	U	C5-C4-O4	-8.40	120.86	125.90
3	A1	735	C	N3-C4-C5	8.40	125.26	121.90
25	BB	2	G	C8-N9-C4	-8.40	103.04	106.40
25	BB	205	G	O4'-C1'-C2'	-8.40	97.40	105.80
25	BB	1578	U	C5-C6-N1	-8.40	118.50	122.70
25	BB	2269	G	N1-C2-N3	8.40	128.94	123.90
25	BB	1920	C	C2-N3-C4	-8.40	115.70	119.90
25	BB	2432	A	C6-N1-C2	-8.40	113.56	118.60
1	AE	60	C	N3-C4-C5	8.39	125.26	121.90
3	A1	88	U	N3-C4-O4	8.39	125.28	119.40
3	A1	915	A	C8-N9-C4	-8.39	102.44	105.80
3	A1	1110	A	N1-C6-N6	-8.39	113.56	118.60
25	BB	1241	A	C4-C5-C6	-8.39	112.80	117.00
25	BB	1868	C	N1-C2-O2	8.39	123.94	118.90
25	BB	595	C	N3-C4-N4	8.39	123.88	118.00
25	BB	826	U	N3-C4-C5	-8.39	109.56	114.60
25	BB	925	A	C2-N3-C4	8.39	114.80	110.60
25	BB	1535	A	C6-C5-N7	8.39	138.18	132.30
25	BB	1900	A	C5-C6-N6	8.39	130.41	123.70
25	BB	2126	A	C6-C5-N7	8.39	138.18	132.30
25	BB	2791	G	C5'-C4'-O4'	8.39	119.17	109.10
49	BZ	63	ARG	NE-CZ-NH1	8.39	124.50	120.30
3	A1	372	C	N3-C4-N4	-8.39	112.12	118.00
3	A1	938	A	N9-C1'-C2'	-8.39	102.77	112.00
25	BB	1973	G	C3'-C2'-C1'	8.39	108.21	101.50
3	A1	180	U	C6-N1-C2	-8.39	115.97	121.00
3	A1	430	A	C5-N7-C8	8.39	108.09	103.90
3	A1	469	C	C5-C6-N1	-8.39	116.81	121.00
3	A1	1137	C	N1-C2-O2	8.39	123.94	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	29	A	C6-C5-N7	8.39	138.17	132.30
25	BB	1333	G	O4'-C1'-N9	-8.39	101.49	108.20
25	BB	1732	C	N1-C2-N3	8.39	125.07	119.20
7	AF	69	ARG	NE-CZ-NH1	8.39	124.50	120.30
25	BB	189	G	N7-C8-N9	8.39	117.30	113.10
25	BB	2833	U	N3-C2-O2	-8.39	116.33	122.20
25	BB	645	C	C3'-C2'-C1'	-8.39	94.79	101.50
25	BB	1361	G	N7-C8-N9	8.39	117.30	113.10
25	BB	1857	G	N3-C4-N9	-8.39	120.97	126.00
55	B6	96	ARG	NE-CZ-NH2	8.39	124.50	120.30
25	BB	2262	U	C3'-C2'-C1'	8.39	108.21	101.50
25	BB	2312	U	N1-C2-O2	8.39	128.67	122.80
25	BB	2653	U	C4-C5-C6	8.39	124.73	119.70
1	AE	58	A	O4'-C1'-N9	-8.39	101.49	108.20
25	BB	524	G	C5-C6-N1	8.39	115.69	111.50
1	AE	17	U	C4-C5-C6	8.39	124.73	119.70
25	BB	667	U	C1'-O4'-C4'	-8.39	103.19	109.90
25	BB	1025	G	C3'-C2'-C1'	8.39	108.21	101.50
25	BB	1312	U	C4-C5-C6	8.39	124.73	119.70
25	BB	1770	G	C5-C6-N1	8.39	115.69	111.50
25	BB	1808	A	C5-N7-C8	-8.39	99.70	103.90
1	AP	10	G	C8-N9-C4	-8.39	103.05	106.40
25	BB	2122	U	N1-C2-O2	8.39	128.67	122.80
1	AE	76	A	C4-C5-C6	-8.38	112.81	117.00
3	A1	83	C	O4'-C1'-N1	8.38	114.91	108.20
3	A1	524	G	C5'-C4'-O4'	8.38	119.16	109.10
3	A1	1505	G	O3'-P-O5'	8.38	119.93	104.00
24	BA	66	A	C2-N3-C4	8.38	114.79	110.60
25	BB	1695	G	C8-N9-C4	-8.39	103.05	106.40
25	BB	2533	U	C3'-C2'-C1'	8.39	108.21	101.50
25	BB	12	U	N1-C2-O2	8.38	128.67	122.80
25	BB	100	U	C6-N1-C2	-8.38	115.97	121.00
25	BB	1195	G	C4-C5-N7	8.38	114.15	110.80
1	AP	26	G	N7-C8-N9	8.38	117.29	113.10
3	A1	1229	A	C5-N7-C8	-8.38	99.71	103.90
1	AP	45	G	N9-C4-C5	8.38	108.75	105.40
25	BB	49	A	C5'-C4'-O4'	8.38	119.16	109.10
25	BB	413	C	N3-C4-N4	-8.38	112.13	118.00
25	BB	1741	C	C5'-C4'-O4'	8.38	119.16	109.10
3	A1	942	G	C2-N3-C4	8.38	116.09	111.90
3	A1	1289	A	O4'-C1'-N9	-8.38	101.50	108.20
25	BB	43	G	C6-C5-N7	8.38	135.43	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	250	G	C5-N7-C8	-8.38	100.11	104.30
25	BB	602	A	C5-C6-N1	8.38	121.89	117.70
25	BB	839	U	N3-C2-O2	-8.38	116.33	122.20
25	BB	1125	G	C5-C6-N1	8.38	115.69	111.50
25	BB	1994	C	N3-C2-O2	-8.38	116.03	121.90
25	BB	2293	G	C4-C5-C6	-8.38	113.77	118.80
25	BB	2750	A	C2-N3-C4	8.38	114.79	110.60
3	A1	336	A	N1-C2-N3	8.38	133.49	129.30
25	BB	654	A	N1-C6-N6	-8.38	113.57	118.60
25	BB	689	A	C6-C5-N7	8.38	138.16	132.30
3	A1	221	C	C2-N3-C4	-8.38	115.71	119.90
3	A1	382	A	N7-C8-N9	8.38	117.99	113.80
3	A1	394	G	C5-N7-C8	8.38	108.49	104.30
3	A1	1397	C	O4'-C1'-N1	-8.38	101.50	108.20
3	A1	856	C	C6-N1-C2	-8.38	116.95	120.30
3	A1	889	A	C2-N3-C4	-8.38	106.41	110.60
3	A1	1080	A	N7-C8-N9	8.38	117.99	113.80
3	A1	1262	C	C4'-C3'-C2'	-8.38	94.22	102.60
25	BB	2507	C	N3-C2-O2	-8.38	116.03	121.90
25	BB	383	C	C3'-C2'-C1'	8.38	108.20	101.50
25	BB	582	A	C5-C6-N6	8.38	130.40	123.70
25	BB	1162	G	C6-N1-C2	-8.38	120.07	125.10
25	BB	1985	C	N1-C2-O2	8.38	123.93	118.90
25	BB	2014	A	C6-N1-C2	-8.38	113.57	118.60
25	BB	2625	G	C2-N3-C4	8.38	116.09	111.90
25	BB	2784	U	N3-C2-O2	-8.38	116.34	122.20
25	BB	2865	U	C6-N1-C2	-8.38	115.97	121.00
30	BG	86	ARG	NE-CZ-NH1	8.38	124.49	120.30
51	B2	124	ARG	CD-NE-CZ	8.38	135.33	123.60
1	AA	8	U	N3-C4-O4	8.38	125.26	119.40
1	AA	30	G	C4-C5-N7	-8.38	107.45	110.80
3	A1	110	C	C6-N1-C2	-8.38	116.95	120.30
3	A1	757	U	N1-C2-N3	8.38	119.93	114.90
3	A1	857	C	N1-C2-N3	8.38	125.06	119.20
3	A1	1346	A	C5-N7-C8	-8.38	99.71	103.90
4	AB	20	ARG	NH1-CZ-NH2	-8.38	110.19	119.40
25	BB	909	A	N7-C8-N9	8.38	117.99	113.80
25	BB	932	U	O4'-C1'-N1	8.38	114.90	108.20
25	BB	2184	A	C8-N9-C4	8.38	109.15	105.80
3	A1	1123	U	N1-C2-N3	8.37	119.92	114.90
3	A1	1297	G	C4-C5-C6	-8.37	113.78	118.80
22	AW	84	ARG	NE-CZ-NH1	8.38	124.49	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	369	U	N3-C2-O2	-8.37	116.34	122.20
25	BB	481	G	C1'-O4'-C4'	-8.38	103.20	109.90
25	BB	1336	A	C5-N7-C8	-8.38	99.71	103.90
25	BB	2288	A	C3'-C2'-C1'	8.37	108.20	101.50
25	BB	2294	G	N7-C8-N9	8.38	117.29	113.10
25	BB	2873	A	C1'-O4'-C4'	-8.37	103.20	109.90
3	A1	256	U	C3'-C2'-C1'	8.37	108.20	101.50
3	A1	1218	C	C6-N1-C2	-8.37	116.95	120.30
10	AI	35	ARG	CD-NE-CZ	8.37	135.32	123.60
25	BB	1412	U	C6-N1-C2	-8.37	115.98	121.00
25	BB	1831	G	C2-N3-C4	8.37	116.09	111.90
25	BB	65	U	O4'-C1'-N1	-8.37	101.50	108.20
25	BB	296	U	N3-C2-O2	-8.37	116.34	122.20
25	BB	1366	A	C4-C5-C6	-8.37	112.81	117.00
25	BB	2175	C	O4'-C1'-N1	8.37	114.90	108.20
1	AP	64	A	N1-C2-N3	-8.37	125.11	129.30
3	A1	1017	U	N1-C2-O2	8.37	128.66	122.80
1	AA	66	A	O4'-C1'-N9	8.37	114.89	108.20
1	AP	20	G	N7-C8-N9	8.37	117.28	113.10
3	A1	183	C	C6-N1-C2	-8.37	116.95	120.30
3	A1	1511	G	C5-C6-N1	8.37	115.69	111.50
3	A1	313	A	C4-C5-C6	-8.37	112.82	117.00
3	A1	645	G	N9-C4-C5	8.37	108.75	105.40
24	BA	75	G	C5-C6-N1	8.37	115.68	111.50
25	BB	359	G	N1-C2-N2	-8.37	108.67	116.20
32	BI	20	ARG	NE-CZ-NH1	-8.37	116.11	120.30
3	A1	935	A	C2-N3-C4	8.37	114.78	110.60
3	A1	1466	C	C3'-C2'-C1'	8.37	108.19	101.50
25	BB	506	G	C6-C5-N7	8.37	135.42	130.40
25	BB	2083	G	C6-N1-C2	-8.37	120.08	125.10
25	BB	2253	G	C5'-C4'-O4'	-8.37	99.06	109.10
25	BB	2278	A	C5-C6-N6	8.37	130.40	123.70
25	BB	2480	C	O4'-C1'-N1	8.37	114.90	108.20
25	BB	2491	U	C6-N1-C2	-8.37	115.98	121.00
25	BB	2681	C	N1-C2-N3	8.37	125.06	119.20
41	BR	44	ARG	NE-CZ-NH1	8.37	124.48	120.30
1	AA	42	G	N3-C4-N9	8.37	131.02	126.00
3	A1	336	A	N1-C6-N6	-8.37	113.58	118.60
3	A1	987	G	N3-C4-C5	-8.37	124.42	128.60
25	BB	1391	U	C5-C4-O4	8.37	130.92	125.90
25	BB	1192	G	N7-C8-N9	8.36	117.28	113.10
25	BB	1393	A	N9-C4-C5	-8.37	102.45	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1401	G	C5-N7-C8	-8.37	100.12	104.30
25	BB	1763	G	C2-N3-C4	8.37	116.08	111.90
25	BB	2145	C	N3-C4-C5	8.37	125.25	121.90
25	BB	2283	C	C3'-C2'-C1'	-8.37	94.81	101.50
25	BB	2399	G	C1'-O4'-C4'	-8.37	103.21	109.90
25	BB	1947	C	C5-C4-N4	8.36	126.06	120.20
25	BB	1960	A	C4'-C3'-C2'	-8.36	94.24	102.60
25	BB	2007	U	O4'-C1'-N1	8.36	114.89	108.20
25	BB	2658	C	N1-C2-N3	8.36	125.06	119.20
1	AA	39	U	N3-C4-C5	8.36	119.62	114.60
3	A1	221	C	N3-C2-O2	-8.36	116.05	121.90
25	BB	23	G	C5-N7-C8	-8.36	100.12	104.30
25	BB	138	U	C3'-C2'-C1'	8.36	108.19	101.50
25	BB	504	A	C6-C5-N7	8.36	138.15	132.30
25	BB	1717	A	C4'-C3'-C2'	-8.36	94.24	102.60
25	BB	1734	G	C6-N1-C2	-8.36	120.08	125.10
25	BB	744	U	C2-N3-C4	-8.36	121.98	127.00
25	BB	1217	U	C1'-O4'-C4'	-8.36	103.21	109.90
25	BB	2012	G	C5-C6-N1	8.36	115.68	111.50
25	BB	2013	A	O4'-C4'-C3'	8.36	112.79	106.10
25	BB	1499	C	C6-N1-C2	-8.36	116.96	120.30
25	BB	1628	G	O5'-P-OP2	-8.36	98.17	105.70
3	A1	1393	U	N3-C4-O4	-8.36	113.55	119.40
3	A1	505	G	C5-N7-C8	-8.36	100.12	104.30
3	A1	845	A	O4'-C1'-N9	8.36	114.89	108.20
3	A1	1200	C	N3-C4-C5	8.36	125.24	121.90
3	A1	1328	C	C2-N3-C4	-8.36	115.72	119.90
3	A1	1329	A	O4'-C4'-C3'	8.36	112.79	106.10
25	BB	75	G	C6-N1-C2	-8.36	120.08	125.10
25	BB	791	C	N1-C2-O2	8.36	123.92	118.90
25	BB	848	C	N3-C4-N4	-8.36	112.15	118.00
25	BB	1384	A	N9-C4-C5	-8.36	102.46	105.80
25	BB	1584	U	N3-C2-O2	-8.36	116.35	122.20
25	BB	1927	A	C5-N7-C8	-8.36	99.72	103.90
3	A1	982	U	C2-N3-C4	-8.36	121.99	127.00
25	BB	98	G	C6-N1-C2	-8.36	120.09	125.10
25	BB	1009	A	C1'-O4'-C4'	8.36	116.59	109.90
25	BB	1966	A	C8-N9-C4	-8.36	102.46	105.80
3	A1	40	C	C1'-O4'-C4'	-8.36	103.22	109.90
3	A1	55	A	C4-C5-C6	-8.36	112.82	117.00
3	A1	646	G	C5-C6-O6	8.36	133.61	128.60
3	A1	1484	C	N3-C4-N4	-8.36	112.15	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	114	C	C5-C6-N1	-8.36	116.82	121.00
25	BB	1038	G	C6-N1-C2	8.36	130.11	125.10
25	BB	1957	C	N3-C4-C5	8.36	125.24	121.90
25	BB	286	U	O4'-C1'-N1	8.36	114.88	108.20
25	BB	417	C	C5-C6-N1	-8.36	116.82	121.00
25	BB	2225	A	C2-N3-C4	8.36	114.78	110.60
25	BB	2330	G	N1-C6-O6	-8.36	114.89	119.90
55	B6	96	ARG	CD-NE-CZ	8.36	135.30	123.60
1	AP	42	G	N1-C6-O6	-8.35	114.89	119.90
3	A1	321	A	C6-C5-N7	8.35	138.15	132.30
3	A1	1152	A	N1-C2-N3	-8.35	125.12	129.30
3	A1	1320	C	N3-C4-N4	-8.35	112.15	118.00
3	A1	1401	G	C8-N9-C4	-8.35	103.06	106.40
25	BB	91	A	C2-N3-C4	8.35	114.78	110.60
3	A1	44	A	N1-C2-N3	-8.35	125.12	129.30
3	A1	756	C	C2-N1-C1'	8.35	127.99	118.80
25	BB	126	A	N1-C2-N3	-8.35	125.12	129.30
25	BB	308	G	N1-C6-O6	-8.35	114.89	119.90
25	BB	613	A	C6-C5-N7	8.35	138.15	132.30
25	BB	1128	G	N1-C2-N3	8.35	128.91	123.90
3	A1	882	C	C6-N1-C2	-8.35	116.96	120.30
3	A1	1059	C	O4'-C4'-C3'	8.35	112.78	106.10
3	A1	1360	A	N9-C4-C5	8.35	109.14	105.80
3	A1	1460	C	N3-C2-O2	-8.35	116.05	121.90
25	BB	1639	C	N3-C2-O2	-8.35	116.05	121.90
25	BB	2603	G	O4'-C1'-N9	8.35	114.88	108.20
25	BB	99	U	C6-N1-C2	-8.35	115.99	121.00
25	BB	2027	G	C4-C5-C6	-8.35	113.79	118.80
25	BB	2785	C	N3-C4-N4	-8.35	112.15	118.00
3	A1	235	C	N3-C4-N4	-8.35	112.16	118.00
3	A1	275	G	O4'-C4'-C3'	8.35	112.78	106.10
25	BB	825	A	C5-C6-N1	8.35	121.88	117.70
25	BB	2326	C	C5-C4-N4	8.35	126.05	120.20
1	AE	55	U	C5'-C4'-O4'	8.35	119.12	109.10
3	A1	86	G	N3-C4-C5	-8.35	124.43	128.60
3	A1	415	A	C6-N1-C2	-8.35	113.59	118.60
3	A1	944	G	C6-N1-C2	-8.35	120.09	125.10
24	BA	15	A	N1-C6-N6	-8.35	113.59	118.60
25	BB	300	A	C5-C6-N1	8.35	121.88	117.70
25	BB	172	A	C4'-C3'-C2'	-8.35	94.25	102.60
25	BB	356	G	N1-C2-N3	8.35	128.91	123.90
25	BB	596	U	C1'-O4'-C4'	-8.35	103.22	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1460	U	C5-C6-N1	-8.35	118.53	122.70
25	BB	2035	G	C5-C6-N1	8.35	115.67	111.50
25	BB	2612	C	N3-C2-O2	-8.35	116.06	121.90
3	A1	309	A	N1-C2-N3	-8.35	125.13	129.30
3	A1	1033	G	N3-C4-C5	-8.35	124.43	128.60
25	BB	24	G	C5-C6-O6	-8.35	123.59	128.60
25	BB	204	A	C3'-C2'-C1'	8.35	108.18	101.50
25	BB	1612	C	O4'-C1'-N1	8.35	114.88	108.20
25	BB	2291	U	N3-C4-O4	-8.35	113.56	119.40
26	BC	79	ARG	NE-CZ-NH1	8.35	124.47	120.30
25	BB	274	C	N3-C4-N4	-8.35	112.16	118.00
25	BB	575	A	O4'-C1'-N9	8.35	114.88	108.20
25	BB	1944	U	N3-C2-O2	-8.35	116.36	122.20
25	BB	2639	A	C2-N3-C4	8.35	114.77	110.60
25	BB	2787	C	N3-C2-O2	-8.35	116.06	121.90
49	BZ	178	ASP	CB-CG-OD1	8.35	125.81	118.30
51	B2	146	ASP	CB-CG-OD2	8.35	125.81	118.30
25	BB	383	C	N3-C4-N4	-8.34	112.16	118.00
25	BB	2779	U	O4'-C1'-N1	8.34	114.88	108.20
25	BB	2805	C	N3-C2-O2	-8.34	116.06	121.90
1	AE	29	A	C6-C5-N7	8.34	138.14	132.30
3	A1	1037	C	N3-C2-O2	-8.34	116.06	121.90
3	A1	1113	C	N3-C2-O2	-8.34	116.06	121.90
3	A1	1287	A	C6-C5-N7	8.34	138.14	132.30
24	BA	31	C	N3-C4-C5	8.34	125.24	121.90
25	BB	1325	U	C5-C6-N1	-8.34	118.53	122.70
25	BB	1446	C	C4'-C3'-C2'	-8.34	94.26	102.60
25	BB	2308	G	C8-N9-C4	-8.34	103.06	106.40
25	BB	1476	U	C5-C6-N1	-8.34	118.53	122.70
30	BG	8	ARG	NE-CZ-NH2	8.34	124.47	120.30
1	AA	20	G	N7-C8-N9	8.34	117.27	113.10
3	A1	633	G	N1-C6-O6	-8.34	114.89	119.90
3	A1	818	G	C5-C6-N1	8.34	115.67	111.50
3	A1	916	U	N1-C2-N3	8.34	119.90	114.90
25	BB	497	A	C8-N9-C4	-8.34	102.46	105.80
25	BB	1248	G	P-O3'-C3'	8.34	129.71	119.70
25	BB	1845	G	C2-N3-C4	-8.34	107.73	111.90
25	BB	1749	A	C5-C6-N6	8.34	130.37	123.70
25	BB	1771	C	N1-C2-O2	8.34	123.90	118.90
25	BB	1946	U	C4-C5-C6	-8.34	114.70	119.70
25	BB	2043	C	N1-C2-O2	8.34	123.90	118.90
25	BB	2086	U	N1-C2-O2	8.34	128.64	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
50	B1	21	ARG	NH1-CZ-NH2	-8.34	110.23	119.40
3	A1	683	G	N3-C4-N9	-8.34	121.00	126.00
25	BB	195	A	O4'-C1'-N9	8.34	114.87	108.20
25	BB	697	G	N9-C4-C5	-8.34	102.06	105.40
25	BB	974	G	C6-N1-C2	-8.34	120.10	125.10
25	BB	1282	U	C1'-O4'-C4'	-8.34	103.23	109.90
25	BB	1546	G	C4-C5-N7	-8.34	107.47	110.80
25	BB	2002	G	N9-C4-C5	-8.34	102.06	105.40
25	BB	2033	A	N1-C6-N6	-8.34	113.60	118.60
3	A1	466	A	N1-C2-N3	-8.34	125.13	129.30
25	BB	488	G	N3-C4-N9	8.34	131.00	126.00
25	BB	623	C	N3-C2-O2	-8.34	116.06	121.90
25	BB	1107	G	C5-N7-C8	-8.34	100.13	104.30
25	BB	1145	C	C2-N3-C4	-8.34	115.73	119.90
25	BB	1284	A	C1'-O4'-C4'	-8.34	103.23	109.90
25	BB	1406	U	C4'-C3'-C2'	-8.34	94.26	102.60
25	BB	1563	U	C4-C5-C6	8.34	124.70	119.70
25	BB	2372	U	C4-C5-C6	8.34	124.70	119.70
25	BB	2566	A	C5-N7-C8	-8.34	99.73	103.90
25	BB	2858	C	N3-C2-O2	-8.34	116.06	121.90
25	BB	2785	C	N3-C4-C5	8.34	125.23	121.90
24	BA	24	G	N7-C8-N9	8.33	117.27	113.10
25	BB	768	G	C5-C6-N1	8.33	115.67	111.50
25	BB	1049	C	N3-C4-C5	8.33	125.23	121.90
1	AA	74	C	C2'-C3'-O3'	8.33	127.83	109.50
1	AE	1	G	C5'-C4'-O4'	8.33	119.10	109.10
3	A1	754	C	C1'-O4'-C4'	-8.33	103.23	109.90
25	BB	382	A	C5-N7-C8	-8.33	99.73	103.90
25	BB	1080	A	O4'-C1'-N9	-8.33	101.53	108.20
25	BB	1942	C	N3-C2-O2	-8.33	116.07	121.90
25	BB	2486	C	O4'-C1'-N1	8.33	114.87	108.20
3	A1	757	U	O4'-C1'-N1	8.33	114.87	108.20
25	BB	258	G	N3-C2-N2	-8.33	114.07	119.90
25	BB	1332	G	N7-C8-N9	8.33	117.27	113.10
25	BB	1718	G	C5-C6-N1	8.33	115.67	111.50
25	BB	2111	U	O4'-C1'-N1	8.33	114.87	108.20
25	BB	2131	U	C4'-C3'-C2'	-8.33	94.27	102.60
25	BB	2684	U	C6-N1-C2	-8.33	116.00	121.00
1	AA	46	G	C5-C6-O6	-8.33	123.60	128.60
3	A1	22	G	C5-C6-O6	8.33	133.60	128.60
3	A1	554	A	C5-N7-C8	-8.33	99.73	103.90
3	A1	1039	G	C6-C5-N7	8.33	135.40	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1366	C	C2-N3-C4	-8.33	115.74	119.90
3	A1	1435	G	C8-N9-C4	-8.33	103.07	106.40
25	BB	399	U	N3-C2-O2	-8.33	116.37	122.20
25	BB	959	A	C6-C5-N7	8.33	138.13	132.30
25	BB	1098	A	C4-C5-C6	-8.33	112.83	117.00
25	BB	1605	C	C5'-C4'-O4'	8.33	119.10	109.10
25	BB	1608	A	N1-C6-N6	-8.33	113.60	118.60
25	BB	1669	A	P-O3'-C3'	8.33	129.70	119.70
25	BB	2410	G	N1-C6-O6	-8.33	114.90	119.90
25	BB	2554	U	C4-C5-C6	8.33	124.70	119.70
3	A1	276	G	C4-C5-C6	-8.33	113.80	118.80
3	A1	451	A	C5-C6-N1	8.33	121.86	117.70
3	A1	677	U	C5-C6-N1	-8.33	118.54	122.70
25	BB	400	G	C4-C5-N7	-8.33	107.47	110.80
25	BB	423	A	C1'-O4'-C4'	-8.33	103.24	109.90
25	BB	2052	A	C1'-O4'-C4'	-8.33	103.24	109.90
25	BB	2102	G	N3-C2-N2	-8.33	114.07	119.90
25	BB	2601	C	N3-C4-N4	-8.33	112.17	118.00
25	BB	985	C	N1-C2-O2	8.33	123.90	118.90
25	BB	1635	A	C4-C5-N7	8.33	114.86	110.70
25	BB	1945	G	N3-C2-N2	-8.33	114.07	119.90
25	BB	2834	G	N1-C6-O6	-8.33	114.90	119.90
50	B1	177	PRO	N-CD-CG	8.33	115.69	103.20
3	A1	1152	A	C4-C5-C6	-8.32	112.84	117.00
25	BB	143	C	O4'-C4'-C3'	8.32	112.76	106.10
25	BB	597	G	C8-N9-C4	-8.32	103.07	106.40
25	BB	2126	A	C5-C6-N6	8.32	130.36	123.70
25	BB	2672	U	C5-C4-O4	8.32	130.90	125.90
1	AP	1	G	N3-C4-N9	8.32	130.99	126.00
3	A1	92	U	N1-C2-N3	8.32	119.89	114.90
3	A1	1206	G	C8-N9-C4	-8.32	103.07	106.40
3	A1	1394	A	C8-N9-C4	-8.32	102.47	105.80
25	BB	315	G	O4'-C1'-N9	8.32	114.86	108.20
25	BB	778	G	N3-C4-C5	-8.32	124.44	128.60
25	BB	998	C	N3-C2-O2	-8.32	116.07	121.90
25	BB	1404	C	C4'-C3'-C2'	-8.32	94.28	102.60
25	BB	2375	G	C5'-C4'-O4'	8.32	119.09	109.10
25	BB	2416	C	C6-N1-C2	-8.32	116.97	120.30
3	A1	59	A	C4-C5-C6	-8.32	112.84	117.00
3	A1	372	C	C2-N3-C4	-8.32	115.74	119.90
3	A1	1312	G	C5-C6-N1	-8.32	107.34	111.50
1	AA	46	G	C4-C5-C6	-8.32	113.81	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1350	A	C5'-C4'-C3'	-8.32	102.69	116.00
25	BB	1285	A	C5-C6-N1	8.32	121.86	117.70
25	BB	1716	U	C1'-O4'-C4'	-8.32	103.24	109.90
25	BB	2104	C	C4-C5-C6	8.32	121.56	117.40
25	BB	2341	G	C8-N9-C4	-8.32	103.07	106.40
25	BB	2657	A	C5-N7-C8	-8.32	99.74	103.90
3	A1	1028	C	C6-N1-C2	-8.32	116.97	120.30
25	BB	88	G	N3-C2-N2	8.32	125.72	119.90
25	BB	560	C	C5-C4-N4	-8.32	114.38	120.20
25	BB	1544	A	C5-C6-N1	8.32	121.86	117.70
25	BB	2023	C	N1-C2-O2	8.32	123.89	118.90
25	BB	2248	C	N1-C2-N3	8.32	125.02	119.20
25	BB	2497	A	N7-C8-N9	-8.32	109.64	113.80
3	A1	1215	G	C4-C5-N7	-8.32	107.47	110.80
2	AM	5	U	P-O3'-C3'	8.32	129.68	119.70
3	A1	281	G	N1-C6-O6	-8.32	114.91	119.90
3	A1	536	C	C6-N1-C2	-8.32	116.97	120.30
3	A1	1302	C	C2-N3-C4	-8.32	115.74	119.90
25	BB	199	A	N9-C1'-C2'	8.32	124.81	114.00
25	BB	601	C	N3-C4-C5	8.32	125.23	121.90
25	BB	1254	A	C6-C5-N7	8.32	138.12	132.30
25	BB	1731	G	C5-N7-C8	-8.32	100.14	104.30
25	BB	2686	G	O4'-C4'-C3'	8.32	112.75	106.10
3	A1	62	U	N1-C2-N3	8.31	119.89	114.90
3	A1	802	A	C5-N7-C8	-8.31	99.74	103.90
25	BB	518	G	N1-C2-N3	8.31	128.89	123.90
3	A1	630	A	C6-C5-N7	8.31	138.12	132.30
3	A1	973	G	C1'-O4'-C4'	-8.31	103.25	109.90
3	A1	1286	U	N3-C2-O2	-8.31	116.38	122.20
24	BA	99	A	C6-N1-C2	-8.31	113.61	118.60
25	BB	5	A	C5-C6-N1	8.31	121.86	117.70
25	BB	496	G	C8-N9-C4	-8.31	103.08	106.40
25	BB	837	C	N3-C2-O2	-8.31	116.08	121.90
25	BB	2820	A	C8-N9-C4	-8.31	102.47	105.80
3	A1	452	A	C4-C5-N7	-8.31	106.54	110.70
24	BA	43	C	C4-C5-C6	8.31	121.56	117.40
3	A1	614	C	N1-C2-O2	8.31	123.89	118.90
3	A1	684	U	C5-C4-O4	8.31	130.89	125.90
3	A1	1153	G	C6-N1-C2	-8.31	120.11	125.10
3	A1	1421	G	N3-C2-N2	8.31	125.72	119.90
24	BA	100	G	C5-C6-O6	8.31	133.59	128.60
25	BB	658	U	O4'-C1'-N1	8.31	114.85	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1184	U	C4-C5-C6	8.31	124.69	119.70
25	BB	1210	G	N1-C2-N3	8.31	128.89	123.90
25	BB	1397	U	N3-C2-O2	-8.31	116.38	122.20
25	BB	1625	C	C6-N1-C2	-8.31	116.98	120.30
25	BB	2496	C	C2-N3-C4	-8.31	115.74	119.90
25	BB	2641	G	C8-N9-C4	-8.31	103.08	106.40
25	BB	2812	G	C4-C5-C6	-8.31	113.81	118.80
3	A1	21	G	C5-C6-O6	8.31	133.59	128.60
3	A1	936	C	N1-C2-O2	8.31	123.89	118.90
3	A1	1122	U	O4'-C1'-N1	8.31	114.85	108.20
15	AO	64	ARG	NH1-CZ-NH2	-8.31	110.26	119.40
25	BB	373	U	N3-C2-O2	-8.31	116.38	122.20
25	BB	860	U	C5-C6-N1	-8.31	118.55	122.70
25	BB	1241	A	N1-C2-N3	-8.31	125.15	129.30
25	BB	1318	U	N1-C1'-C2'	-8.31	102.86	112.00
25	BB	2725	A	C5-C6-N6	8.31	130.35	123.70
25	BB	2772	C	N1-C2-O2	8.31	123.89	118.90
25	BB	2029	G	C2-N3-C4	8.31	116.05	111.90
25	BB	2750	A	N1-C2-N3	-8.31	125.15	129.30
1	AA	38	A	O4'-C1'-N9	-8.30	101.56	108.20
1	AP	19	G	N1-C2-N3	8.30	128.88	123.90
3	A1	67	C	C2-N3-C4	-8.30	115.75	119.90
3	A1	141	G	C4-C5-C6	-8.30	113.82	118.80
3	A1	744	C	C5-C4-N4	8.30	126.01	120.20
3	A1	867	G	N1-C6-O6	-8.30	114.92	119.90
3	A1	1135	U	C5-C6-N1	-8.30	118.55	122.70
3	A1	1154	G	C5-C6-N1	8.30	115.65	111.50
3	A1	1408	A	N7-C8-N9	8.31	117.95	113.80
3	A1	1527	U	N1-C2-O2	-8.31	116.99	122.80
25	BB	654	A	C2-N3-C4	8.30	114.75	110.60
25	BB	762	U	N3-C2-O2	-8.30	116.39	122.20
25	BB	1426	G	C6-C5-N7	8.31	135.38	130.40
25	BB	1986	C	N1-C2-N3	8.31	125.01	119.20
25	BB	1953	A	N3-C4-C5	8.30	132.61	126.80
25	BB	2393	U	O4'-C1'-N1	8.30	114.84	108.20
25	BB	2760	C	N3-C4-N4	8.30	123.81	118.00
25	BB	2819	G	C5-C6-N1	8.30	115.65	111.50
44	BU	20	TYR	CB-CG-CD1	8.30	125.98	121.00
1	AP	51	G	N1-C6-O6	-8.30	114.92	119.90
3	A1	1377	A	C4-C5-N7	8.30	114.85	110.70
24	BA	110	C	N1-C2-O2	8.30	123.88	118.90
25	BB	109	C	N1-C2-O2	8.30	123.88	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1047	G	N3-C4-N9	-8.30	121.02	126.00
3	A1	119	A	C6-N1-C2	-8.30	113.62	118.60
3	A1	1373	G	C5-C6-N1	8.30	115.65	111.50
25	BB	1186	G	C4-C5-C6	-8.30	113.82	118.80
25	BB	1439	A	C3'-C2'-C1'	8.30	108.14	101.50
25	BB	2350	C	C6-N1-C2	-8.30	116.98	120.30
3	A1	917	G	N3-C4-C5	-8.30	124.45	128.60
25	BB	523	C	C5-C6-N1	-8.30	116.85	121.00
25	BB	1872	A	C6-N1-C2	-8.30	113.62	118.60
1	AA	28	C	N1-C2-O2	8.30	123.88	118.90
1	AE	46	G	N1-C2-N3	8.30	128.88	123.90
3	A1	64	G	C6-N1-C2	-8.30	120.12	125.10
3	A1	461	A	N9-C4-C5	8.30	109.12	105.80
3	A1	1080	A	C4-C5-N7	-8.30	106.55	110.70
25	BB	2634	A	C4-C5-C6	-8.30	112.85	117.00
3	A1	689	C	N3-C2-O2	-8.30	116.09	121.90
25	BB	715	A	N1-C2-N3	-8.30	125.15	129.30
25	BB	757	G	C5-C6-O6	-8.30	123.62	128.60
25	BB	910	A	C5-C6-N1	8.30	121.85	117.70
25	BB	972	A	C6-C5-N7	8.30	138.11	132.30
25	BB	1221	C	C4'-C3'-C2'	-8.30	94.30	102.60
25	BB	1435	G	C2'-C3'-O3'	8.30	127.76	109.50
25	BB	1928	A	O4'-C1'-N9	8.30	114.84	108.20
25	BB	2276	G	C8-N9-C4	-8.30	103.08	106.40
25	BB	2296	U	C5'-C4'-O4'	8.30	119.06	109.10
25	BB	2354	C	O4'-C1'-N1	8.30	114.84	108.20
25	BB	2421	G	C4'-C3'-C2'	-8.30	94.30	102.60
25	BB	2678	C	N3-C4-C5	8.30	125.22	121.90
3	A1	1182	G	C5-C6-O6	-8.29	123.62	128.60
5	AC	68	ARG	NE-CZ-NH2	8.29	124.45	120.30
25	BB	54	G	N1-C6-O6	-8.30	114.92	119.90
25	BB	386	G	O4'-C1'-N9	8.29	114.84	108.20
25	BB	1073	A	C3'-C2'-C1'	-8.30	94.86	101.50
25	BB	1368	G	C4-C5-N7	8.30	114.12	110.80
25	BB	1754	A	C4-C5-C6	-8.30	112.85	117.00
25	BB	1892	C	C5-C4-N4	-8.30	114.39	120.20
25	BB	2002	G	N3-C4-N9	8.30	130.98	126.00
25	BB	819	A	C5-C6-N1	8.29	121.85	117.70
25	BB	914	G	C8-N9-C4	-8.29	103.08	106.40
25	BB	2009	A	N9-C4-C5	-8.29	102.48	105.80
25	BB	2744	G	N3-C4-C5	-8.29	124.45	128.60
1	AP	31	A	C3'-C2'-C1'	8.29	108.13	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	73	C	N3-C4-N4	-8.29	112.19	118.00
3	A1	288	A	C6-N1-C2	-8.29	113.62	118.60
25	BB	91	A	C5-C6-N6	8.29	130.33	123.70
25	BB	429	A	C5-N7-C8	-8.29	99.75	103.90
25	BB	1704	C	O4'-C1'-C2'	-8.29	97.51	105.80
25	BB	2413	G	C2-N3-C4	8.29	116.05	111.90
25	BB	1822	C	N1-C2-O2	8.29	123.88	118.90
25	BB	1992	G	N7-C8-N9	8.29	117.25	113.10
1	AA	43	G	C1'-O4'-C4'	-8.29	103.27	109.90
3	A1	353	A	N1-C6-N6	-8.29	113.63	118.60
3	A1	408	A	C5'-C4'-C3'	-8.29	102.74	116.00
3	A1	441	A	C6-C5-N7	8.29	138.10	132.30
25	BB	323	C	N1-C2-N3	8.29	125.00	119.20
25	BB	329	G	C6-C5-N7	8.29	135.37	130.40
25	BB	2828	G	N3-C4-N9	-8.29	121.03	126.00
3	A1	348	G	C8-N9-C4	-8.29	103.08	106.40
25	BB	1464	G	N1-C2-N2	8.29	123.66	116.20
25	BB	1507	C	N3-C4-N4	-8.29	112.20	118.00
25	BB	1755	A	N3-C4-C5	-8.29	121.00	126.80
25	BB	1808	A	C3'-C2'-C1'	8.29	108.13	101.50
25	BB	2329	U	N1-C2-N3	8.29	119.87	114.90
25	BB	2453	A	C6-N1-C2	-8.29	113.63	118.60
25	BB	2625	G	N3-C4-C5	-8.29	124.45	128.60
25	BB	2571	U	N1-C2-N3	8.29	119.87	114.90
3	A1	680	C	C4-C5-C6	8.29	121.54	117.40
25	BB	390	U	N3-C2-O2	-8.29	116.40	122.20
25	BB	1493	C	N1-C2-O2	8.29	123.87	118.90
25	BB	2039	U	N3-C2-O2	-8.29	116.40	122.20
25	BB	2111	U	N3-C2-O2	-8.29	116.40	122.20
25	BB	2600	A	C2-N3-C4	8.29	114.74	110.60
25	BB	2854	G	C5-C6-N1	8.29	115.64	111.50
42	BS	4	ASP	CB-CG-OD2	8.28	125.75	118.30
1	AP	18	G	C3'-C2'-C1'	-8.28	94.87	101.50
1	AE	42	G	N1-C6-O6	-8.28	114.93	119.90
23	AX	48	ARG	CD-NE-CZ	8.28	135.20	123.60
3	A1	297	G	N1-C2-N3	8.28	128.87	123.90
25	BB	1187	G	N3-C2-N2	-8.28	114.10	119.90
25	BB	1696	G	N3-C2-N2	-8.28	114.10	119.90
25	BB	1862	G	C6-N1-C2	-8.28	120.13	125.10
3	A1	53	A	N9-C4-C5	8.28	109.11	105.80
3	A1	273	U	N1-C2-N3	8.28	119.87	114.90
3	A1	1163	A	C6-C5-N7	8.28	138.09	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1173	U	C5-C6-N1	-8.28	118.56	122.70
25	BB	343	C	C5-C6-N1	-8.28	116.86	121.00
25	BB	426	C	C5-C6-N1	-8.28	116.86	121.00
25	BB	1355	G	C5-N7-C8	-8.28	100.16	104.30
25	BB	1604	C	O4'-C1'-C2'	8.28	115.05	107.60
25	BB	2062	A	P-O3'-C3'	8.28	129.63	119.70
27	BD	98	ARG	NE-CZ-NH2	8.28	124.44	120.30
3	A1	604	G	N3-C4-C5	-8.28	124.46	128.60
3	A1	1039	G	O4'-C1'-C2'	8.28	115.05	107.60
25	BB	801	G	C5-C6-O6	8.28	133.57	128.60
25	BB	992	C	N1-C1'-C2'	8.28	124.76	114.00
25	BB	1268	A	O4'-C4'-C3'	8.28	112.72	106.10
3	A1	128	G	N3-C4-N9	-8.28	121.03	126.00
3	A1	686	U	N3-C2-O2	-8.28	116.41	122.20
3	A1	733	G	O4'-C1'-C2'	-8.28	97.53	105.80
25	BB	333	G	N1-C6-O6	-8.28	114.94	119.90
25	BB	556	A	C4-C5-C6	-8.28	112.86	117.00
25	BB	2176	A	C8-N9-C4	-8.28	102.49	105.80
3	A1	166	U	N3-C2-O2	-8.27	116.41	122.20
3	A1	668	G	O4'-C1'-N9	8.27	114.82	108.20
3	A1	1147	C	N3-C4-C5	8.27	125.21	121.90
25	BB	700	G	C2-N3-C4	8.27	116.04	111.90
25	BB	1718	G	C4'-C3'-C2'	-8.27	94.33	102.60
1	AE	51	G	N1-C2-N3	8.27	128.86	123.90
24	BA	78	A	C5-C6-N1	8.27	121.84	117.70
25	BB	422	A	C2-N3-C4	8.27	114.74	110.60
25	BB	714	U	C5-C4-O4	8.27	130.86	125.90
25	BB	802	A	C6-N1-C2	-8.27	113.64	118.60
25	BB	1092	C	C6-N1-C2	-8.27	116.99	120.30
25	BB	1789	A	C5-C6-N6	8.27	130.32	123.70
25	BB	2049	G	O4'-C1'-C2'	-8.27	97.53	105.80
33	BJ	89	ILE	CA-CB-CG1	8.27	126.72	111.00
33	BJ	91	ARG	NE-CZ-NH1	8.27	124.44	120.30
25	BB	757	G	C2-N3-C4	8.27	116.03	111.90
25	BB	1058	U	N3-C2-O2	-8.27	116.41	122.20
3	A1	337	G	N1-C6-O6	-8.27	114.94	119.90
3	A1	448	A	C8-N9-C4	-8.27	102.49	105.80
25	BB	508	A	N1-C6-N6	-8.27	113.64	118.60
25	BB	2038	G	C6-N1-C2	-8.27	120.14	125.10
25	BB	994	C	N3-C4-N4	-8.27	112.21	118.00
25	BB	1184	U	N1-C2-N3	8.27	119.86	114.90
25	BB	1199	U	C1'-O4'-C4'	-8.27	103.29	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2002	G	N1-C2-N3	8.27	128.86	123.90
25	BB	2459	A	O4'-C1'-N9	-8.27	101.58	108.20
25	BB	2392	A	C5'-C4'-O4'	8.27	119.02	109.10
25	BB	2612	C	O4'-C1'-N1	8.27	114.81	108.20
25	BB	2753	A	C4'-C3'-C2'	-8.27	94.33	102.60
25	BB	2879	A	O4'-C1'-N9	8.27	114.82	108.20
40	BQ	29	ARG	NE-CZ-NH2	8.27	124.43	120.30
3	A1	100	G	C8-N9-C4	-8.27	103.09	106.40
3	A1	926	G	N3-C2-N2	-8.27	114.11	119.90
3	A1	1097	C	N3-C4-N4	-8.27	112.21	118.00
39	BP	19	ARG	NE-CZ-NH1	8.27	124.43	120.30
3	A1	1448	C	C6-N1-C2	-8.27	116.99	120.30
3	A1	1526	G	C5-N7-C8	8.27	108.43	104.30
25	BB	271	G	N9-C1'-C2'	8.27	124.74	114.00
25	BB	353	C	N3-C4-N4	-8.27	112.21	118.00
25	BB	637	A	C4-C5-C6	-8.27	112.87	117.00
25	BB	2158	A	C4-C5-C6	-8.27	112.87	117.00
25	BB	2612	C	C3'-C2'-C1'	8.27	108.11	101.50
1	AE	16	U	C6-N1-C2	-8.26	116.04	121.00
3	A1	385	C	N1-C2-N3	8.26	124.98	119.20
3	A1	444	G	C6-C5-N7	8.26	135.36	130.40
25	BB	2394	C	C2-N3-C4	-8.26	115.77	119.90
3	A1	1059	C	C5-C4-N4	8.26	125.98	120.20
25	BB	549	G	C4-C5-N7	8.26	114.11	110.80
25	BB	687	C	N1-C2-N3	8.26	124.98	119.20
25	BB	807	U	C3'-C2'-C1'	-8.26	94.89	101.50
25	BB	1236	G	N3-C4-N9	8.26	130.96	126.00
25	BB	1613	G	O4'-C1'-N9	8.26	114.81	108.20
25	BB	1701	A	C3'-C2'-C1'	-8.26	94.89	101.50
25	BB	2341	G	N9-C4-C5	8.26	108.70	105.40
3	A1	241	G	N3-C2-N2	-8.26	114.12	119.90
25	BB	1512	C	C4-C5-C6	8.26	121.53	117.40
25	BB	315	G	C5'-C4'-O4'	-8.26	99.19	109.10
25	BB	650	C	C6-N1-C2	-8.26	117.00	120.30
25	BB	900	A	C4-C5-N7	8.26	114.83	110.70
25	BB	1733	G	N3-C2-N2	-8.26	114.12	119.90
25	BB	1813	G	C5'-C4'-C3'	-8.26	102.78	116.00
3	A1	1225	A	C4-C5-C6	-8.26	112.87	117.00
3	A1	1226	C	N3-C4-C5	8.26	125.20	121.90
25	BB	480	A	O4'-C1'-N9	8.26	114.81	108.20
25	BB	816	C	C5-C6-N1	-8.26	116.87	121.00
25	BB	1877	A	O4'-C4'-C3'	8.26	112.71	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2205	A	N7-C8-N9	-8.26	109.67	113.80
3	A1	729	A	C5-C6-N6	8.26	130.30	123.70
3	A1	1116	U	N1-C2-N3	8.26	119.85	114.90
25	BB	761	A	O4'-C1'-N9	-8.26	101.60	108.20
25	BB	2165	C	C2-N3-C4	-8.26	115.77	119.90
25	BB	2790	U	N1-C2-N3	8.26	119.85	114.90
3	A1	412	A	C4-C5-C6	-8.25	112.87	117.00
3	A1	539	A	C2-N3-C4	8.25	114.73	110.60
3	A1	1408	A	N9-C4-C5	8.25	109.10	105.80
3	A1	1477	U	C2-N3-C4	-8.25	122.05	127.00
25	BB	324	A	C4'-C3'-C2'	-8.25	94.35	102.60
25	BB	449	A	N1-C2-N3	-8.25	125.17	129.30
25	BB	639	U	O4'-C1'-N1	8.25	114.80	108.20
25	BB	756	A	C1'-O4'-C4'	-8.25	103.30	109.90
25	BB	2057	G	C8-N9-C4	-8.25	103.10	106.40
25	BB	2887	A	C5-C6-N1	8.25	121.83	117.70
25	BB	1160	G	C2-N3-C4	-8.25	107.77	111.90
25	BB	1219	U	C6-N1-C2	-8.25	116.05	121.00
25	BB	1814	G	N1-C2-N2	-8.25	108.77	116.20
25	BB	1927	A	N3-C4-N9	-8.25	120.80	127.40
25	BB	2062	A	O4'-C1'-N9	8.25	114.80	108.20
25	BB	2160	C	N3-C4-C5	8.25	125.20	121.90
25	BB	2638	G	C4'-C3'-C2'	8.25	110.85	102.60
25	BB	2746	U	C1'-O4'-C4'	-8.25	103.30	109.90
1	AP	36	A	C4-C5-C6	-8.25	112.87	117.00
3	A1	1186	G	N7-C8-N9	8.25	117.22	113.10
3	A1	1285	A	O4'-C1'-C2'	-8.25	97.55	105.80
15	AO	126	ARG	CD-NE-CZ	8.25	135.15	123.60
25	BB	448	U	N1-C2-O2	8.25	128.58	122.80
25	BB	34	U	C4-C5-C6	8.25	124.65	119.70
25	BB	1149	G	C5-N7-C8	8.25	108.42	104.30
25	BB	2179	C	N3-C2-O2	-8.25	116.13	121.90
25	BB	2557	G	C4'-C3'-C2'	-8.25	94.35	102.60
25	BB	2782	G	C2-N3-C4	-8.25	107.78	111.90
1	AA	9	A	C6-C5-N7	8.25	138.07	132.30
25	BB	1041	G	C5-C6-O6	8.25	133.55	128.60
1	AA	37	G	C4-C5-N7	-8.25	107.50	110.80
3	A1	46	G	O4'-C4'-C3'	8.25	112.70	106.10
3	A1	264	C	C2-N3-C4	-8.25	115.78	119.90
3	A1	332	G	N7-C8-N9	8.25	117.22	113.10
3	A1	833	G	C4-C5-N7	-8.25	107.50	110.80
3	A1	452	A	C5-C6-N1	8.25	121.82	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	AB	224	ARG	NE-CZ-NH2	-8.25	116.18	120.30
25	BB	749	A	C5-C6-N1	8.25	121.82	117.70
25	BB	1140	C	C5'-C4'-C3'	-8.25	102.81	116.00
25	BB	1303	G	N1-C6-O6	-8.25	114.95	119.90
25	BB	2672	U	C3'-C2'-C1'	8.25	108.10	101.50
1	AA	66	A	C5-N7-C8	-8.24	99.78	103.90
3	A1	218	U	C5-C4-O4	-8.24	120.95	125.90
3	A1	1046	A	C3'-C2'-C1'	8.24	108.09	101.50
3	A1	1105	A	C6-N1-C2	-8.24	113.65	118.60
3	A1	1232	U	N3-C4-O4	8.24	125.17	119.40
25	BB	500	G	C5'-C4'-O4'	8.24	118.99	109.10
25	BB	2498	C	C5'-C4'-O4'	8.24	118.99	109.10
3	A1	511	C	C2-N3-C4	-8.24	115.78	119.90
3	A1	797	C	N3-C4-N4	-8.24	112.23	118.00
3	A1	1051	C	O4'-C1'-N1	8.24	114.79	108.20
4	AB	34	ARG	NE-CZ-NH1	8.24	124.42	120.30
25	BB	609	A	C6-N1-C2	-8.24	113.65	118.60
25	BB	804	A	C5-N7-C8	-8.24	99.78	103.90
25	BB	812	C	C4-C5-C6	-8.24	113.28	117.40
25	BB	900	A	C6-N1-C2	-8.24	113.65	118.60
25	BB	968	C	N1-C2-N3	8.24	124.97	119.20
25	BB	1536	C	C6-N1-C2	-8.24	117.00	120.30
25	BB	2029	G	N1-C6-O6	-8.24	114.95	119.90
25	BB	2413	G	C4-C5-N7	-8.24	107.50	110.80
25	BB	2569	G	N9-C4-C5	8.24	108.70	105.40
3	A1	851	G	N9-C4-C5	8.24	108.70	105.40
24	BA	43	C	N1-C2-O2	8.24	123.84	118.90
25	BB	152	A	C3'-C2'-C1'	-8.24	94.91	101.50
3	A1	292	G	C5-C6-N1	8.24	115.62	111.50
3	A1	1201	A	C1'-O4'-C4'	-8.24	103.31	109.90
3	A1	1299	A	C2-N3-C4	8.24	114.72	110.60
25	BB	379	G	C2'-C3'-O3'	8.24	127.63	109.50
25	BB	619	G	C8-N9-C4	-8.24	103.10	106.40
25	BB	733	G	N1-C6-O6	-8.24	114.96	119.90
25	BB	758	C	C2-N3-C4	-8.24	115.78	119.90
25	BB	1052	C	C5'-C4'-O4'	8.24	118.99	109.10
25	BB	1609	A	C5-C6-N1	8.24	121.82	117.70
25	BB	2208	C	N3-C4-N4	-8.24	112.23	118.00
25	BB	2321	U	C1'-O4'-C4'	-8.24	103.31	109.90
25	BB	2666	C	N3-C4-N4	-8.24	112.23	118.00
3	A1	129	A	C4-C5-N7	8.24	114.82	110.70
25	BB	84	A	C4'-C3'-C2'	-8.24	94.36	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	385	C	N3-C4-N4	-8.24	112.23	118.00
25	BB	662	G	C4-C5-N7	8.24	114.09	110.80
25	BB	2280	G	C8-N9-C4	-8.24	103.11	106.40
25	BB	2641	G	C6-N1-C2	-8.24	120.16	125.10
25	BB	136	G	C8-N9-C4	-8.24	103.11	106.40
25	BB	529	A	C5-C6-N1	8.24	121.82	117.70
25	BB	1161	C	C5-C6-N1	-8.24	116.88	121.00
3	A1	317	U	N1-C2-N3	8.23	119.84	114.90
3	A1	609	A	N1-C6-N6	-8.23	113.66	118.60
3	A1	1524	C	N1-C2-N3	8.23	124.97	119.20
25	BB	1300	G	C4-C5-N7	-8.23	107.51	110.80
25	BB	1379	U	O4'-C1'-N1	8.23	114.79	108.20
25	BB	2734	A	C2-N3-C4	8.23	114.72	110.60
25	BB	2735	G	C8-N9-C4	-8.23	103.11	106.40
25	BB	688	U	C4-C5-C6	8.23	124.64	119.70
25	BB	1372	U	N1-C2-N3	8.23	119.84	114.90
25	BB	1837	C	N1-C2-O2	8.23	123.84	118.90
3	A1	654	G	N3-C4-C5	-8.23	124.48	128.60
25	BB	957	C	C2'-C3'-O3'	8.23	127.61	109.50
25	BB	1828	G	C4-C5-N7	-8.23	107.51	110.80
3	A1	6	G	C4-C5-C6	-8.23	113.86	118.80
24	BA	108	A	C5-C6-N1	8.23	121.81	117.70
25	BB	152	A	C5-N7-C8	-8.23	99.78	103.90
25	BB	1245	G	C5-C6-O6	8.23	133.54	128.60
25	BB	1517	G	C4-C5-N7	8.23	114.09	110.80
25	BB	1759	A	C4-C5-C6	-8.23	112.89	117.00
25	BB	2224	G	C5-C6-N1	8.23	115.61	111.50
25	BB	2234	G	N3-C4-N9	-8.23	121.06	126.00
25	BB	2822	G	C6-N1-C2	-8.23	120.16	125.10
1	AE	73	A	C6-C5-N7	8.23	138.06	132.30
3	A1	160	A	C2-N3-C4	8.23	114.72	110.60
3	A1	443	C	N3-C4-N4	-8.23	112.24	118.00
9	AH	62	ARG	NH1-CZ-NH2	-8.23	110.35	119.40
25	BB	177	G	N3-C2-N2	-8.23	114.14	119.90
25	BB	461	C	N3-C2-O2	-8.23	116.14	121.90
25	BB	853	C	C4-C5-C6	-8.23	113.29	117.40
25	BB	1067	A	O4'-C1'-N9	8.23	114.78	108.20
1	AE	21	A	C4-C5-C6	-8.23	112.89	117.00
3	A1	409	U	N3-C2-O2	-8.23	116.44	122.20
3	A1	524	G	C5-C6-O6	8.23	133.54	128.60
25	BB	707	G	O4'-C1'-C2'	8.23	115.00	107.60
25	BB	1694	C	O4'-C1'-N1	8.23	114.78	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2600	A	C5-C6-N1	8.23	121.81	117.70
25	BB	1204	A	C4'-C3'-C2'	-8.23	94.37	102.60
25	BB	1736	U	C3'-C2'-C1'	8.23	108.08	101.50
25	BB	1859	U	N1-C2-O2	-8.23	117.04	122.80
1	AE	51	G	O4'-C1'-N9	8.22	114.78	108.20
3	A1	478	A	N7-C8-N9	8.22	117.91	113.80
3	A1	1013	G	C3'-C2'-C1'	-8.22	94.92	101.50
24	BA	71	C	N1-C2-N3	8.22	124.96	119.20
25	BB	28	A	C5-C6-N1	8.22	121.81	117.70
25	BB	122	G	C5'-C4'-C3'	-8.22	102.84	116.00
25	BB	479	A	C5-C6-N6	8.22	130.28	123.70
25	BB	908	C	N3-C4-N4	-8.22	112.24	118.00
25	BB	1442	U	N3-C2-O2	-8.22	116.44	122.20
25	BB	336	C	C2-N3-C4	-8.22	115.79	119.90
25	BB	1528	A	N9-C4-C5	-8.22	102.51	105.80
25	BB	1667	G	N9-C4-C5	-8.22	102.11	105.40
25	BB	1809	A	C5-N7-C8	-8.22	99.79	103.90
25	BB	2730	C	N1-C2-O2	8.22	123.83	118.90
25	BB	634	C	O4'-C1'-N1	8.22	114.78	108.20
25	BB	760	G	N9-C4-C5	8.22	108.69	105.40
25	BB	1364	G	P-O3'-C3'	8.22	129.56	119.70
25	BB	1932	A	C2-N3-C4	8.22	114.71	110.60
25	BB	2480	C	C5-C4-N4	-8.22	114.44	120.20
2	AM	15	U	N3-C2-O2	-8.22	116.45	122.20
3	A1	85	U	C4-C5-C6	8.22	124.63	119.70
3	A1	388	G	C3'-C2'-C1'	-8.22	94.93	101.50
3	A1	404	G	N1-C6-O6	-8.22	114.97	119.90
3	A1	423	G	C6-N1-C2	-8.22	120.17	125.10
3	A1	511	C	N1-C2-N3	8.22	124.95	119.20
3	A1	587	G	C5-C6-O6	8.22	133.53	128.60
3	A1	999	C	C6-N1-C2	-8.22	117.01	120.30
3	A1	1368	A	N9-C1'-C2'	8.22	124.68	114.00
24	BA	8	C	N3-C4-C5	8.22	125.19	121.90
25	BB	2131	U	N3-C2-O2	-8.22	116.45	122.20
25	BB	1022	G	C6-N1-C2	-8.22	120.17	125.10
25	BB	1088	A	N3-C4-C5	-8.22	121.05	126.80
25	BB	1120	G	C5-C6-O6	8.22	133.53	128.60
25	BB	1925	C	N3-C2-O2	-8.22	116.15	121.90
25	BB	2586	U	N1-C2-O2	8.22	128.55	122.80
25	BB	2652	C	O4'-C1'-N1	8.22	114.77	108.20
1	AE	55	U	N3-C4-O4	8.22	125.15	119.40
3	A1	93	U	N1-C2-N3	8.21	119.83	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	365	U	N1-C2-O2	8.22	128.55	122.80
3	A1	625	U	N1-C2-O2	8.22	128.55	122.80
22	AW	14	SER	O-C-N	-8.22	109.56	122.70
25	BB	672	C	O4'-C1'-N1	8.21	114.77	108.20
25	BB	1216	G	N3-C4-C5	-8.21	124.49	128.60
25	BB	2014	A	C3'-C2'-C1'	-8.22	94.93	101.50
25	BB	2855	C	N3-C4-N4	-8.22	112.25	118.00
25	BB	2421	G	C5-C6-N1	8.21	115.61	111.50
3	A1	362	G	N7-C8-N9	8.21	117.21	113.10
3	A1	511	C	C6-N1-C2	-8.21	117.02	120.30
3	A1	611	C	N3-C4-N4	-8.21	112.25	118.00
3	A1	1363	A	C5'-C4'-O4'	8.21	118.95	109.10
3	A1	1112	C	C2-N3-C4	-8.21	115.79	119.90
25	BB	65	U	C4'-C3'-C2'	-8.21	94.39	102.60
25	BB	289	G	N1-C6-O6	-8.21	114.97	119.90
25	BB	380	G	C5-C6-N1	8.21	115.61	111.50
25	BB	1826	G	C5-C6-N1	8.21	115.61	111.50
25	BB	352	A	C6-N1-C2	-8.21	113.67	118.60
25	BB	1312	U	N3-C2-O2	-8.21	116.45	122.20
25	BB	2179	C	N3-C4-N4	-8.21	112.25	118.00
25	BB	2859	G	C8-N9-C4	-8.21	103.11	106.40
3	A1	1227	A	C6-C5-N7	8.21	138.05	132.30
25	BB	1682	G	C5-C6-O6	8.21	133.53	128.60
3	A1	293	G	N1-C2-N3	8.21	128.82	123.90
3	A1	1218	C	N3-C4-N4	-8.21	112.25	118.00
25	BB	9	G	C4'-C3'-C2'	-8.21	94.39	102.60
25	BB	20	C	C3'-C2'-C1'	8.21	108.07	101.50
25	BB	1459	G	C5-C6-N1	8.21	115.60	111.50
25	BB	1117	C	C1'-O4'-C4'	8.21	116.47	109.90
25	BB	2144	G	C6-N1-C2	-8.21	120.18	125.10
25	BB	2282	G	C5-N7-C8	8.21	108.40	104.30
25	BB	2295	C	C2-N3-C4	-8.21	115.80	119.90
25	BB	2491	U	O4'-C1'-N1	8.21	114.77	108.20
25	BB	2594	C	C2-N3-C4	-8.21	115.80	119.90
25	BB	2613	U	C3'-C2'-C1'	-8.21	94.93	101.50
1	AP	72	C	C5'-C4'-O4'	8.21	118.95	109.10
3	A1	611	C	C4-C5-C6	8.21	121.50	117.40
25	BB	98	G	C4-C5-C6	-8.21	113.88	118.80
25	BB	209	C	O4'-C1'-N1	-8.21	101.64	108.20
25	BB	551	G	N1-C6-O6	-8.21	114.98	119.90
25	BB	789	A	C2-N3-C4	8.21	114.70	110.60
25	BB	2826	A	N1-C2-N3	-8.21	125.20	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	844	G	N3-C2-N2	-8.20	114.16	119.90
22	AW	121	ARG	NE-CZ-NH1	-8.20	116.20	120.30
25	BB	457	A	C4-C5-N7	-8.20	106.60	110.70
25	BB	1873	G	C1'-O4'-C4'	-8.20	103.34	109.90
25	BB	2165	C	N3-C2-O2	-8.20	116.16	121.90
3	A1	114	U	C5-C6-N1	-8.20	118.60	122.70
25	BB	716	A	C5-C6-N6	8.20	130.26	123.70
25	BB	1328	A	O4'-C1'-N9	-8.20	101.64	108.20
3	A1	337	G	C4-C5-N7	-8.20	107.52	110.80
3	A1	563	A	C4-C5-C6	-8.20	112.90	117.00
3	A1	1329	A	C6-C5-N7	8.20	138.04	132.30
25	BB	108	G	C4-C5-N7	8.20	114.08	110.80
25	BB	1044	C	N3-C4-N4	-8.20	112.26	118.00
25	BB	2179	C	C2-N3-C4	-8.20	115.80	119.90
25	BB	2695	U	C4-C5-C6	8.20	124.62	119.70
25	BB	2886	A	C5-C6-N1	8.20	121.80	117.70
3	A1	187	G	C4-C5-C6	-8.20	113.88	118.80
6	AD	53	ARG	NE-CZ-NH2	8.20	124.40	120.30
3	A1	408	A	C5-C6-N1	8.20	121.80	117.70
3	A1	650	G	C5-C6-O6	8.20	133.52	128.60
3	A1	717	U	C1'-O4'-C4'	-8.20	103.34	109.90
25	BB	503	A	C6-C5-N7	8.20	138.04	132.30
25	BB	833	A	C5-C6-N6	8.20	130.26	123.70
25	BB	721	A	C5-C6-N1	8.20	121.80	117.70
25	BB	824	U	O4'-C1'-N1	8.20	114.76	108.20
25	BB	2447	G	C5'-C4'-C3'	-8.20	102.88	116.00
25	BB	2770	G	C5-C6-O6	8.20	133.52	128.60
51	B2	65	LEU	CB-CG-CD2	8.20	124.94	111.00
3	A1	580	C	C2-N3-C4	8.20	124.00	119.90
25	BB	888	C	N1-C1'-C2'	8.20	124.66	114.00
25	BB	1570	A	C6-N1-C2	-8.20	113.68	118.60
3	A1	668	G	C5-N7-C8	8.19	108.40	104.30
3	A1	911	U	C5-C6-N1	-8.20	118.60	122.70
25	BB	2060	A	O4'-C1'-N9	8.20	114.76	108.20
25	BB	1827	U	C3'-C2'-C1'	8.19	108.06	101.50
25	BB	2585	U	OP1-P-OP2	-8.20	107.31	119.60
33	BJ	91	ARG	NE-CZ-NH2	8.19	124.40	120.30
3	A1	783	C	N1-C2-N3	8.19	124.94	119.20
3	A1	1107	C	N3-C4-C5	8.19	125.18	121.90
2	AM	5	U	OP1-P-OP2	-8.19	107.31	119.60
25	BB	88	G	O4'-C1'-N9	8.19	114.75	108.20
25	BB	745	G	C5'-C4'-O4'	8.19	118.93	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	751	A	C5-C6-N1	8.19	121.80	117.70
25	BB	915	C	N3-C2-O2	-8.19	116.17	121.90
25	BB	1305	C	C5-C4-N4	8.19	125.94	120.20
25	BB	749	A	C6-C5-N7	8.19	138.03	132.30
25	BB	1446	C	N1-C2-N3	8.19	124.94	119.20
30	BG	63	ARG	NH1-CZ-NH2	-8.19	110.39	119.40
46	BW	1	PRO	N-CA-CB	8.19	113.13	103.30
3	A1	474	G	C5'-C4'-C3'	-8.19	102.89	116.00
2	AM	20	U	N3-C2-O2	-8.19	116.47	122.20
3	A1	368	U	C5'-C4'-O4'	8.19	118.93	109.10
3	A1	400	C	N1-C1'-C2'	8.19	124.65	114.00
25	BB	220	G	C2-N3-C4	8.19	115.99	111.90
25	BB	484	C	N1-C2-O2	8.19	123.81	118.90
25	BB	633	A	C5-C6-N6	8.19	130.25	123.70
25	BB	815	C	N3-C4-N4	-8.19	112.27	118.00
25	BB	1029	A	C4-C5-C6	-8.19	112.91	117.00
25	BB	1163	G	O5'-P-OP2	8.19	120.53	110.70
25	BB	1951	U	C6-N1-C2	-8.19	116.09	121.00
25	BB	2023	C	N3-C4-N4	8.19	123.73	118.00
25	BB	2365	G	N1-C6-O6	8.19	124.81	119.90
25	BB	2414	G	C6-N1-C2	-8.19	120.19	125.10
3	A1	498	A	C4-C5-N7	8.19	114.79	110.70
3	A1	542	G	C5-C6-N1	8.19	115.59	111.50
25	BB	519	U	C2-N3-C4	-8.19	122.09	127.00
25	BB	1665	A	O4'-C1'-N9	8.19	114.75	108.20
25	BB	389	G	N7-C8-N9	-8.19	109.01	113.10
25	BB	1632	A	N9-C4-C5	8.19	109.07	105.80
25	BB	2820	A	N1-C2-N3	-8.19	125.21	129.30
1	AA	70	C	N1-C2-O2	8.18	123.81	118.90
25	BB	186	G	N3-C4-C5	-8.18	124.51	128.60
25	BB	1103	A	N1-C2-N3	8.18	133.39	129.30
25	BB	1655	A	C2-N3-C4	8.18	114.69	110.60
3	A1	179	A	O4'-C4'-C3'	-8.18	95.82	104.00
3	A1	1168	U	O4'-C4'-C3'	8.18	112.64	106.10
25	BB	1322	A	N3-C4-C5	-8.18	121.07	126.80
25	BB	1411	U	C3'-C2'-C1'	8.18	108.05	101.50
25	BB	2010	G	N1-C6-O6	-8.18	114.99	119.90
28	BE	123	ARG	NE-CZ-NH2	-8.18	116.21	120.30
1	AA	32	C	C4'-C3'-C2'	-8.18	94.42	102.60
3	A1	365	U	N3-C2-O2	-8.18	116.47	122.20
3	A1	500	G	P-O3'-C3'	8.18	129.52	119.70
3	A1	532	A	C5-C6-N1	8.18	121.79	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	784	A	C6-C5-N7	8.18	138.03	132.30
3	A1	895	G	C5-C6-O6	8.18	133.51	128.60
24	BA	56	G	N1-C2-N3	8.18	128.81	123.90
25	BB	741	U	C4-C5-C6	8.18	124.61	119.70
25	BB	2054	A	C5-N7-C8	-8.18	99.81	103.90
27	BD	30	ARG	NE-CZ-NH1	8.18	124.39	120.30
3	A1	625	U	C1'-O4'-C4'	-8.18	103.36	109.90
3	A1	701	U	C5-C6-N1	-8.18	118.61	122.70
3	A1	869	G	N1-C6-O6	-8.18	114.99	119.90
25	BB	1146	C	O4'-C1'-N1	8.18	114.74	108.20
25	BB	1473	G	C6-C5-N7	8.18	135.31	130.40
25	BB	89	A	C5-N7-C8	-8.18	99.81	103.90
25	BB	599	A	C2-N3-C4	8.18	114.69	110.60
25	BB	1618	A	N1-C2-N3	-8.18	125.21	129.30
25	BB	1640	A	C6-C5-N7	8.18	138.02	132.30
25	BB	1933	G	C4-C5-N7	-8.18	107.53	110.80
25	BB	2746	U	C5-C6-N1	-8.18	118.61	122.70
1	AE	68	U	N3-C2-O2	-8.18	116.48	122.20
3	A1	378	G	O4'-C1'-N9	8.18	114.74	108.20
3	A1	1057	G	N7-C8-N9	8.18	117.19	113.10
3	A1	200	G	N3-C4-C5	-8.18	124.51	128.60
3	A1	281	G	C6-N1-C2	-8.18	120.19	125.10
3	A1	970	C	C5'-C4'-O4'	8.18	118.91	109.10
3	A1	1050	G	N3-C2-N2	-8.18	114.18	119.90
25	BB	822	G	N7-C8-N9	8.18	117.19	113.10
25	BB	1030	C	C4-C5-C6	-8.18	113.31	117.40
25	BB	1266	G	O4'-C1'-N9	8.18	114.74	108.20
25	BB	1839	G	C4-C5-N7	-8.18	107.53	110.80
25	BB	2639	A	O4'-C1'-N9	8.18	114.74	108.20
25	BB	1390	U	C6-N1-C2	-8.18	116.09	121.00
25	BB	2150	C	C5-C4-N4	-8.18	114.48	120.20
25	BB	2862	G	C5-C6-N1	8.18	115.59	111.50
25	BB	2885	G	C5-C6-N1	8.18	115.59	111.50
25	BB	2208	C	C5'-C4'-O4'	8.17	118.91	109.10
3	A1	76	G	C3'-C2'-C1'	8.17	108.04	101.50
3	A1	944	G	N1-C6-O6	-8.17	115.00	119.90
3	A1	1340	A	N9-C4-C5	8.17	109.07	105.80
25	BB	759	G	N9-C4-C5	-8.17	102.13	105.40
25	BB	862	G	C4-C5-N7	8.17	114.07	110.80
25	BB	1399	C	C6-N1-C2	-8.17	117.03	120.30
25	BB	1517	G	C8-N9-C4	-8.17	103.13	106.40
25	BB	1864	U	O4'-C1'-N1	8.17	114.74	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1989	G	N9-C4-C5	8.17	108.67	105.40
25	BB	2455	G	C5-C6-N1	8.17	115.59	111.50
25	BB	2509	G	N3-C4-N9	8.17	130.90	126.00
25	BB	2607	G	N1-C6-O6	-8.17	115.00	119.90
25	BB	2711	A	C4-C5-N7	8.17	114.79	110.70
25	BB	2854	G	C6-N1-C2	-8.17	120.20	125.10
25	BB	2642	G	C5-C6-N1	8.17	115.59	111.50
25	BB	2865	U	O4'-C1'-N1	8.17	114.74	108.20
1	AA	12	U	C5'-C4'-O4'	8.17	118.91	109.10
25	BB	270	A	C6-C5-N7	8.17	138.02	132.30
25	BB	2262	U	N1-C2-N3	8.17	119.80	114.90
3	A1	109	A	O4'-C1'-N9	8.17	114.73	108.20
3	A1	243	A	C4-C5-N7	8.17	114.78	110.70
3	A1	634	C	C5-C6-N1	-8.17	116.91	121.00
3	A1	1052	U	C1'-O4'-C4'	-8.17	103.36	109.90
25	BB	1885	A	C5-C6-N1	8.17	121.78	117.70
3	A1	1183	U	C1'-O4'-C4'	-8.17	103.36	109.90
25	BB	233	A	C4'-C3'-C2'	-8.17	94.43	102.60
25	BB	545	U	N3-C4-O4	-8.17	113.68	119.40
25	BB	1348	C	C2-N3-C4	-8.17	115.81	119.90
25	BB	2322	A	N1-C6-N6	-8.17	113.70	118.60
25	BB	2378	A	N9-C1'-C2'	-8.17	103.01	112.00
25	BB	2717	C	N3-C4-N4	-8.17	112.28	118.00
1	AE	37	G	C8-N9-C4	-8.17	103.13	106.40
3	A1	1166	G	C4-C5-C6	-8.17	113.90	118.80
25	BB	2432	A	N7-C8-N9	-8.17	109.72	113.80
3	A1	745	G	N1-C6-O6	-8.17	115.00	119.90
3	A1	828	U	N3-C2-O2	-8.17	116.48	122.20
23	AX	62	ARG	NH1-CZ-NH2	-8.17	110.42	119.40
25	BB	166	U	C4-C5-C6	8.17	124.60	119.70
25	BB	548	G	N1-C2-N2	8.17	123.55	116.20
24	BA	73	A	N3-C4-C5	-8.17	121.08	126.80
25	BB	335	C	C2-N3-C4	-8.17	115.82	119.90
25	BB	400	G	N9-C4-C5	8.17	108.67	105.40
25	BB	877	A	O4'-C1'-N9	-8.17	101.67	108.20
25	BB	1057	A	C5-C6-N1	8.17	121.78	117.70
25	BB	2151	U	C3'-C2'-C1'	8.17	108.03	101.50
25	BB	2363	G	C5-C6-O6	-8.17	123.70	128.60
3	A1	1174	G	C2-N3-C4	8.16	115.98	111.90
3	A1	1434	A	C4-C5-N7	8.16	114.78	110.70
25	BB	1547	C	C6-N1-C2	-8.16	117.03	120.30
1	AP	71	G	C6-N1-C2	-8.16	120.20	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	266	G	O4'-C4'-C3'	8.16	112.63	106.10
3	A1	1095	U	N1-C1'-C2'	-8.16	103.02	112.00
17	AR	69	ARG	NE-CZ-NH2	-8.16	116.22	120.30
25	BB	107	G	C5'-C4'-O4'	8.16	118.89	109.10
25	BB	505	A	C5-C6-N1	8.16	121.78	117.70
25	BB	1277	G	C4-C5-N7	-8.16	107.53	110.80
25	BB	2317	A	C2-N3-C4	8.16	114.68	110.60
25	BB	2431	U	O4'-C1'-N1	8.16	114.73	108.20
25	BB	2035	G	N7-C8-N9	8.16	117.18	113.10
26	BC	56	PHE	CB-CG-CD1	-8.16	115.09	120.80
3	A1	876	C	N1-C2-O2	8.16	123.80	118.90
25	BB	2241	A	C6-C5-N7	8.16	138.01	132.30
3	A1	539	A	C5-C6-N6	8.16	130.23	123.70
3	A1	1134	G	O4'-C1'-N9	8.16	114.73	108.20
25	BB	610	C	C5-C6-N1	-8.16	116.92	121.00
25	BB	772	C	N1-C2-N3	8.16	124.91	119.20
25	BB	2627	G	C5-C6-N1	8.16	115.58	111.50
25	BB	861	A	C6-C5-N7	8.16	138.01	132.30
25	BB	994	C	C5'-C4'-C3'	-8.16	102.95	116.00
25	BB	1789	A	O4'-C1'-N9	8.16	114.73	108.20
25	BB	2170	A	C5-C6-N6	8.16	130.23	123.70
3	A1	176	C	C2-N3-C4	-8.16	115.82	119.90
3	A1	291	U	C5'-C4'-C3'	-8.16	102.95	116.00
3	A1	635	A	C6-C5-N7	8.16	138.01	132.30
3	A1	1252	A	C4-C5-C6	-8.16	112.92	117.00
25	BB	433	C	C4'-C3'-C2'	-8.16	94.44	102.60
25	BB	1835	G	N1-C6-O6	-8.16	115.00	119.90
25	BB	2900	A	C5-N7-C8	-8.16	99.82	103.90
25	BB	582	A	C6-N1-C2	-8.16	113.71	118.60
25	BB	2043	C	N3-C4-N4	-8.16	112.29	118.00
25	BB	2510	C	N3-C2-O2	-8.16	116.19	121.90
25	BB	2780	G	C8-N9-C4	-8.16	103.14	106.40
3	A1	1059	C	N3-C4-N4	-8.15	112.29	118.00
3	A1	1321	U	P-O3'-C3'	8.15	129.49	119.70
3	A1	1333	A	C4-C5-C6	-8.15	112.92	117.00
24	BA	78	A	N1-C2-N3	-8.15	125.22	129.30
25	BB	933	A	C5-C6-N6	8.15	130.22	123.70
25	BB	680	C	N1-C2-O2	8.15	123.79	118.90
25	BB	1451	C	N3-C2-O2	-8.15	116.19	121.90
1	AA	32	C	C6-N1-C2	-8.15	117.04	120.30
3	A1	1450	U	C5-C6-N1	-8.15	118.62	122.70
25	BB	748	G	C5-N7-C8	-8.15	100.22	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1940	U	C4-C5-C6	8.15	124.59	119.70
25	BB	283	G	C5-C6-O6	8.15	133.49	128.60
25	BB	1311	G	C5'-C4'-C3'	-8.15	102.96	116.00
25	BB	2097	A	C5-C6-N1	8.15	121.78	117.70
3	A1	246	A	C4-C5-C6	-8.15	112.93	117.00
3	A1	688	G	C8-N9-C4	-8.15	103.14	106.40
3	A1	1101	A	N1-C2-N3	-8.15	125.23	129.30
1	AA	75	C	C5'-C4'-O4'	8.15	118.88	109.10
3	A1	815	A	C6-C5-N7	8.15	138.00	132.30
3	A1	847	G	N1-C6-O6	-8.15	115.01	119.90
3	A1	1155	A	N3-C4-N9	-8.15	120.88	127.40
25	BB	272	A	N9-C4-C5	-8.15	102.54	105.80
25	BB	1461	C	N3-C2-O2	-8.15	116.20	121.90
25	BB	1643	G	N3-C4-N9	8.15	130.89	126.00
25	BB	2073	C	C6-N1-C2	-8.15	117.04	120.30
25	BB	2529	G	N3-C4-C5	-8.15	124.53	128.60
25	BB	2631	G	N3-C2-N2	-8.15	114.20	119.90
1	AA	30	G	N3-C4-N9	-8.14	121.11	126.00
1	AA	75	C	O4'-C4'-C3'	8.14	112.61	106.10
2	AM	20	U	C5'-C4'-O4'	-8.14	99.33	109.10
3	A1	465	A	C6-C5-N7	8.14	138.00	132.30
3	A1	820	U	C5-C4-O4	-8.14	121.01	125.90
25	BB	160	A	N1-C2-N3	-8.14	125.23	129.30
25	BB	1549	A	C5-C6-N1	8.14	121.77	117.70
25	BB	2714	G	C5-N7-C8	-8.14	100.23	104.30
25	BB	262	A	C4-C5-C6	-8.14	112.93	117.00
25	BB	567	U	C2-N3-C4	-8.14	122.11	127.00
25	BB	699	A	C6-N1-C2	-8.14	113.71	118.60
25	BB	782	A	N9-C4-C5	8.14	109.06	105.80
25	BB	2497	A	O4'-C1'-N9	8.14	114.72	108.20
3	A1	405	U	N3-C4-O4	-8.14	113.70	119.40
2	AM	15	U	O4'-C1'-N1	8.14	114.71	108.20
3	A1	595	A	C2-N3-C4	8.14	114.67	110.60
3	A1	767	A	C1'-O4'-C4'	-8.14	103.39	109.90
3	A1	1525	G	C6-N1-C2	-8.14	120.22	125.10
24	BA	102	G	C6-C5-N7	8.14	135.28	130.40
25	BB	1209	U	C2-N3-C4	-8.14	122.11	127.00
25	BB	1378	A	C4-C5-C6	-8.14	112.93	117.00
25	BB	1580	A	O4'-C1'-N9	8.14	114.71	108.20
25	BB	1615	C	C2-N3-C4	-8.14	115.83	119.90
25	BB	1724	G	N9-C4-C5	8.14	108.66	105.40
25	BB	1241	A	C2-N3-C4	8.14	114.67	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1809	A	C3'-C2'-C1'	-8.14	94.99	101.50
25	BB	2163	A	O4'-C1'-N9	-8.14	101.69	108.20
25	BB	2757	A	C5-N7-C8	-8.14	99.83	103.90
44	BU	43	ARG	NH1-CZ-NH2	-8.14	110.44	119.40
1	AA	10	G	C5-C6-N1	8.14	115.57	111.50
3	A1	306	A	C8-N9-C4	-8.14	102.54	105.80
3	A1	1141	C	N1-C2-N3	8.14	124.90	119.20
3	A1	1169	A	N9-C4-C5	8.14	109.06	105.80
3	A1	785	G	C4'-C3'-C2'	-8.14	94.46	102.60
3	A1	859	G	C4-C5-N7	-8.14	107.55	110.80
25	BB	2176	A	N7-C8-N9	8.14	117.87	113.80
24	BA	117	G	N7-C8-N9	8.14	117.17	113.10
25	BB	775	G	N9-C4-C5	8.14	108.66	105.40
25	BB	1163	G	C4-C5-C6	-8.14	113.92	118.80
25	BB	1417	C	C2-N3-C4	-8.14	115.83	119.90
25	BB	1806	C	N3-C4-N4	-8.14	112.30	118.00
25	BB	2208	C	N1-C2-N3	8.14	124.90	119.20
25	BB	2844	G	O4'-C1'-N9	8.14	114.71	108.20
1	AP	24	G	N1-C6-O6	-8.14	115.02	119.90
25	BB	93	G	N7-C8-N9	8.14	117.17	113.10
25	BB	574	A	C5-N7-C8	8.14	107.97	103.90
25	BB	1111	A	C5-C6-N6	8.14	130.21	123.70
25	BB	1479	G	C4-C5-C6	-8.14	113.92	118.80
25	BB	2402	U	C2-N3-C4	8.14	131.88	127.00
1	AE	3	G	C5-C6-O6	8.13	133.48	128.60
25	BB	814	C	C4'-C3'-C2'	-8.13	94.47	102.60
25	BB	2165	C	O4'-C1'-N1	8.13	114.71	108.20
25	BB	2363	G	C6-C5-N7	8.13	135.28	130.40
1	AA	65	G	C5-C6-O6	8.13	133.48	128.60
1	AA	75	C	N3-C4-C5	8.13	125.15	121.90
3	A1	88	U	C6-N1-C2	-8.13	116.12	121.00
3	A1	204	G	C6-C5-N7	8.13	135.28	130.40
3	A1	683	G	C4-C5-N7	-8.13	107.55	110.80
25	BB	1560	G	N1-C6-O6	-8.13	115.02	119.90
3	A1	158	G	C5'-C4'-O4'	8.13	118.86	109.10
10	AI	16	PHE	CB-CG-CD1	-8.13	115.11	120.80
25	BB	539	G	C6-N1-C2	-8.13	120.22	125.10
25	BB	716	A	N1-C2-N3	8.13	133.37	129.30
25	BB	1129	A	C5-N7-C8	-8.13	99.83	103.90
25	BB	1899	A	N1-C2-N3	-8.13	125.23	129.30
25	BB	2121	G	N1-C6-O6	-8.13	115.02	119.90
25	BB	2785	C	C5'-C4'-O4'	8.13	118.86	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
36	BM	6	ARG	CD-NE-CZ	8.13	134.99	123.60
3	A1	1291	U	O4'-C1'-N1	8.13	114.70	108.20
1	AP	60	C	C2-N3-C4	-8.13	115.83	119.90
25	BB	866	A	C2-N3-C4	8.13	114.66	110.60
3	A1	90	C	C2-N3-C4	-8.13	115.84	119.90
3	A1	217	C	N3-C2-O2	-8.13	116.21	121.90
3	A1	383	A	C4-C5-N7	-8.13	106.64	110.70
3	A1	437	U	C3'-C2'-C1'	8.13	108.00	101.50
3	A1	759	A	C4-C5-C6	-8.13	112.94	117.00
3	A1	1266	G	N3-C2-N2	-8.13	114.21	119.90
24	BA	105	G	C5'-C4'-C3'	-8.13	103.00	116.00
25	BB	70	G	C6-C5-N7	8.13	135.28	130.40
25	BB	1016	G	N9-C4-C5	8.13	108.65	105.40
25	BB	1238	G	C5-C6-N1	8.13	115.56	111.50
25	BB	1975	G	N3-C4-N9	8.13	130.88	126.00
25	BB	2870	C	C2-N1-C1'	8.13	127.74	118.80
3	A1	1007	U	N1-C2-N3	-8.13	110.03	114.90
24	BA	89	U	C4-C5-C6	8.12	124.58	119.70
24	BA	116	G	C4'-C3'-C2'	-8.13	94.47	102.60
25	BB	368	A	C4-C5-N7	8.12	114.76	110.70
25	BB	376	G	O4'-C1'-N9	8.12	114.70	108.20
25	BB	688	U	C6-N1-C2	8.13	125.88	121.00
25	BB	705	A	C6-C5-N7	8.12	137.99	132.30
25	BB	778	G	C5-C6-N1	8.13	115.56	111.50
25	BB	1026	G	C4-C5-C6	-8.13	113.92	118.80
25	BB	1026	G	N7-C8-N9	8.13	117.16	113.10
25	BB	2217	G	C8-N9-C4	8.13	109.65	106.40
25	BB	2297	A	C6-C5-N7	8.13	137.99	132.30
25	BB	2791	G	C5-C6-N1	8.13	115.56	111.50
25	BB	1635	A	C5-N7-C8	-8.12	99.84	103.90
25	BB	1959	G	N1-C6-O6	-8.12	115.03	119.90
37	BN	216	ARG	NE-CZ-NH2	8.12	124.36	120.30
3	A1	843	U	N3-C2-O2	-8.12	116.51	122.20
3	A1	925	G	O4'-C1'-C2'	8.12	114.91	107.60
17	AR	164	ARG	CD-NE-CZ	8.12	134.97	123.60
25	BB	1217	U	C2-N3-C4	-8.12	122.13	127.00
1	AP	13	C	N3-C4-C5	8.12	125.15	121.90
3	A1	454	G	N1-C2-N3	8.12	128.77	123.90
3	A1	471	U	C5-C6-N1	-8.12	118.64	122.70
3	A1	897	C	C6-N1-C2	-8.12	117.05	120.30
3	A1	1017	U	C6-N1-C2	-8.12	116.13	121.00
3	A1	1373	G	C2-N3-C4	8.12	115.96	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	775	G	C6-C5-N7	8.12	135.27	130.40
25	BB	1105	U	N1-C2-N3	8.12	119.77	114.90
25	BB	1723	G	N3-C4-C5	-8.12	124.54	128.60
25	BB	2119	A	C4-C5-C6	-8.12	112.94	117.00
25	BB	2282	G	O4'-C1'-N9	8.12	114.70	108.20
25	BB	2655	G	C4'-C3'-C2'	-8.12	94.48	102.60
50	B1	114	ARG	NE-CZ-NH1	8.12	124.36	120.30
1	AP	22	G	N1-C2-N2	8.12	123.51	116.20
1	AP	40	C	N1-C2-N3	8.12	124.88	119.20
3	A1	46	G	C5-C6-N1	8.12	115.56	111.50
3	A1	360	G	C6-N1-C2	-8.12	120.23	125.10
3	A1	637	C	C5-C6-N1	-8.12	116.94	121.00
25	BB	1629	U	C5'-C4'-O4'	8.12	118.84	109.10
25	BB	2285	C	N1-C2-O2	8.12	123.77	118.90
25	BB	2517	C	C1'-O4'-C4'	-8.12	103.40	109.90
25	BB	2617	U	C4-C5-C6	8.12	124.57	119.70
1	AE	76	A	C5-C6-N1	8.12	121.76	117.70
3	A1	95	C	N3-C4-C5	8.12	125.15	121.90
3	A1	220	G	C5'-C4'-O4'	8.12	118.84	109.10
25	BB	1264	A	O4'-C1'-N9	8.12	114.69	108.20
25	BB	2456	C	N3-C4-N4	-8.12	112.32	118.00
51	B2	132	ARG	NH1-CZ-NH2	-8.12	110.47	119.40
3	A1	679	C	N3-C2-O2	-8.12	116.22	121.90
25	BB	100	U	N3-C2-O2	-8.12	116.52	122.20
25	BB	126	A	C5-C6-N1	8.12	121.76	117.70
25	BB	809	G	C1'-O4'-C4'	-8.12	103.41	109.90
25	BB	1214	A	C4-C5-C6	-8.12	112.94	117.00
25	BB	1332	G	N3-C4-N9	8.12	130.87	126.00
25	BB	1655	A	C6-C5-N7	8.12	137.98	132.30
25	BB	1734	G	C2-N3-C4	8.12	115.96	111.90
25	BB	1938	A	C5-N7-C8	-8.12	99.84	103.90
25	BB	2077	A	N1-C6-N6	-8.12	113.73	118.60
24	BA	50	A	C4-C5-C6	-8.12	112.94	117.00
3	A1	99	C	N3-C4-N4	-8.11	112.32	118.00
3	A1	1282	C	N1-C2-N3	8.11	124.88	119.20
25	BB	744	U	C4'-C3'-C2'	-8.12	94.48	102.60
25	BB	793	A	C4-C5-C6	-8.12	112.94	117.00
25	BB	962	G	C8-N9-C4	-8.11	103.15	106.40
25	BB	2408	U	C3'-C2'-C1'	8.11	107.99	101.50
1	AE	45	G	C3'-C2'-C1'	8.11	107.99	101.50
3	A1	423	G	O4'-C1'-N9	8.11	114.69	108.20
3	A1	1501	C	N1-C2-O2	8.11	123.77	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	330	A	C4-C5-C6	-8.11	112.94	117.00
25	BB	387	U	C1'-O4'-C4'	-8.11	103.41	109.90
25	BB	532	A	N3-C4-C5	-8.11	121.12	126.80
25	BB	545	U	C5-C4-O4	8.11	130.77	125.90
25	BB	841	G	N1-C2-N3	8.11	128.77	123.90
25	BB	1013	C	C2-N3-C4	-8.11	115.84	119.90
25	BB	1107	G	N9-C4-C5	-8.11	102.16	105.40
25	BB	1834	U	C5-C4-O4	-8.11	121.03	125.90
25	BB	2393	U	N3-C2-O2	-8.11	116.52	122.20
25	BB	2783	U	C5-C6-N1	-8.11	118.64	122.70
25	BB	2823	A	O4'-C1'-N9	8.11	114.69	108.20
1	AA	8	U	N3-C2-O2	-8.11	116.52	122.20
25	BB	1669	A	C4-C5-C6	-8.11	112.94	117.00
3	A1	120	A	C6-C5-N7	8.11	137.98	132.30
3	A1	189	A	N1-C2-N3	8.11	133.35	129.30
3	A1	621	A	C6-C5-N7	8.11	137.98	132.30
3	A1	258	G	O4'-C1'-N9	8.11	114.69	108.20
23	AX	45	ARG	NE-CZ-NH2	8.11	124.35	120.30
25	BB	1013	C	O4'-C1'-N1	8.11	114.69	108.20
25	BB	1211	C	N1-C2-O2	8.11	123.77	118.90
25	BB	1633	G	C4-C5-N7	-8.11	107.56	110.80
25	BB	2209	G	C5-C6-N1	8.11	115.56	111.50
25	BB	2228	G	C8-N9-C4	-8.11	103.16	106.40
25	BB	2354	C	C4'-C3'-C2'	-8.11	94.49	102.60
1	AA	24	G	N9-C4-C5	8.11	108.64	105.40
1	AE	38	A	O4'-C4'-C3'	8.11	112.58	106.10
3	A1	276	G	C4-C5-N7	8.11	114.04	110.80
24	BA	13	G	N9-C4-C5	-8.11	102.16	105.40
25	BB	130	C	C1'-O4'-C4'	-8.11	103.42	109.90
25	BB	329	G	C4-C5-C6	-8.11	113.94	118.80
25	BB	348	A	C5-C6-N1	8.11	121.75	117.70
25	BB	568	U	O4'-C1'-N1	8.11	114.69	108.20
25	BB	604	G	C8-N9-C4	-8.11	103.16	106.40
25	BB	892	A	O4'-C1'-N9	8.11	114.68	108.20
25	BB	1384	A	O4'-C4'-C3'	8.11	112.58	106.10
25	BB	2392	A	C5'-C4'-C3'	-8.11	103.03	116.00
25	BB	2742	G	N1-C2-N3	8.11	128.76	123.90
25	BB	2640	G	N1-C6-O6	-8.11	115.04	119.90
3	A1	134	G	N9-C4-C5	8.10	108.64	105.40
3	A1	1367	C	N3-C4-C5	8.10	125.14	121.90
25	BB	1867	G	C8-N9-C4	-8.10	103.16	106.40
25	BB	1962	C	C2-N3-C4	-8.10	115.85	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2353	G	N3-C2-N2	-8.10	114.23	119.90
25	BB	2574	G	N3-C2-N2	-8.10	114.23	119.90
27	BD	71	ARG	NH1-CZ-NH2	-8.10	110.49	119.40
3	A1	97	G	N9-C4-C5	8.10	108.64	105.40
3	A1	147	G	C5-C6-N1	8.10	115.55	111.50
3	A1	813	U	C5-C6-N1	-8.10	118.65	122.70
3	A1	874	G	C8-N9-C4	-8.10	103.16	106.40
3	A1	901	A	N7-C8-N9	8.10	117.85	113.80
3	A1	1032	G	O4'-C1'-N9	8.10	114.68	108.20
3	A1	1435	G	N9-C4-C5	8.10	108.64	105.40
22	AW	123	ARG	NE-CZ-NH1	-8.10	116.25	120.30
25	BB	1807	G	O4'-C1'-N9	8.10	114.68	108.20
3	A1	321	A	C8-N9-C4	8.10	109.04	105.80
3	A1	1060	U	N3-C2-O2	-8.10	116.53	122.20
25	BB	578	G	C2-N3-C4	-8.10	107.85	111.90
25	BB	1874	C	C5-C6-N1	-8.10	116.95	121.00
25	BB	2001	C	P-O3'-C3'	8.10	129.42	119.70
25	BB	2053	G	C4-C5-N7	-8.10	107.56	110.80
25	BB	2216	G	C4-C5-N7	8.10	114.04	110.80
1	AA	37	G	C6-C5-N7	8.10	135.26	130.40
1	AP	30	G	C6-C5-N7	8.10	135.26	130.40
25	BB	2758	A	C5-N7-C8	-8.10	99.85	103.90
3	A1	1104	G	N3-C4-N9	-8.10	121.14	126.00
3	A1	1477	U	N3-C2-O2	-8.10	116.53	122.20
3	A1	667	G	N9-C4-C5	8.10	108.64	105.40
3	A1	846	G	N3-C2-N2	-8.10	114.23	119.90
25	BB	537	G	N1-C2-N3	8.10	128.76	123.90
25	BB	1085	A	C8-N9-C4	-8.10	102.56	105.80
3	A1	647	C	N3-C4-N4	-8.10	112.33	118.00
3	A1	1462	C	C3'-C2'-C1'	8.10	107.98	101.50
25	BB	977	G	C5-C6-O6	8.10	133.46	128.60
25	BB	1458	U	C2-N3-C4	-8.10	122.14	127.00
25	BB	2052	A	C5-C6-N1	8.10	121.75	117.70
25	BB	2063	C	N3-C4-N4	-8.10	112.33	118.00
25	BB	1468	U	C5-C6-N1	-8.10	118.65	122.70
25	BB	2749	A	O4'-C1'-N9	8.10	114.68	108.20
25	BB	2772	C	N1-C2-N3	8.10	124.87	119.20
40	BQ	47	ARG	CD-NE-CZ	8.10	134.93	123.60
1	AE	9	A	N7-C8-N9	-8.09	109.75	113.80
3	A1	51	A	N7-C8-N9	-8.09	109.75	113.80
3	A1	947	G	C5-N7-C8	-8.09	100.25	104.30
3	A1	1117	A	N9-C4-C5	8.09	109.04	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1506	U	C5-C6-N1	-8.09	118.65	122.70
18	AS	122	VAL	CA-CB-CG1	8.09	123.04	110.90
25	BB	1737	G	N3-C2-N2	-8.09	114.23	119.90
25	BB	2462	C	C4-C5-C6	-8.09	113.35	117.40
3	A1	1020	G	N1-C6-O6	-8.09	115.05	119.90
25	BB	443	A	N7-C8-N9	8.09	117.85	113.80
25	BB	1314	C	N3-C4-C5	8.09	125.14	121.90
1	AE	52	U	N3-C2-O2	-8.09	116.54	122.20
3	A1	476	U	N3-C4-C5	-8.09	109.75	114.60
3	A1	1455	G	N3-C4-C5	-8.09	124.56	128.60
24	BA	93	C	N3-C2-O2	-8.09	116.24	121.90
3	A1	835	U	C1'-O4'-C4'	-8.09	103.43	109.90
3	A1	1043	G	C4-C5-N7	-8.09	107.56	110.80
3	A1	1216	A	N1-C2-N3	-8.09	125.25	129.30
3	A1	1293	C	N3-C2-O2	-8.09	116.24	121.90
3	A1	1339	A	C5-C6-N6	-8.09	117.23	123.70
25	BB	141	G	C4-C5-N7	8.09	114.03	110.80
25	BB	554	U	C5-C6-N1	-8.09	118.66	122.70
25	BB	789	A	N7-C8-N9	8.09	117.84	113.80
25	BB	1748	C	N3-C2-O2	-8.09	116.24	121.90
25	BB	1836	C	C2-N3-C4	-8.09	115.86	119.90
25	BB	2731	G	C4-C5-C6	-8.09	113.95	118.80
25	BB	1088	A	C5-C6-N1	8.09	121.74	117.70
25	BB	1103	A	C5-N7-C8	-8.09	99.86	103.90
25	BB	2896	C	C2-N3-C4	-8.09	115.86	119.90
3	A1	497	G	C8-N9-C4	-8.09	103.17	106.40
3	A1	780	A	C4-C5-C6	-8.09	112.96	117.00
3	A1	786	G	N3-C2-N2	-8.09	114.24	119.90
3	A1	1013	G	C1'-O4'-C4'	-8.09	103.43	109.90
3	A1	1166	G	N7-C8-N9	-8.09	109.06	113.10
3	A1	1429	A	C6-N1-C2	-8.09	113.75	118.60
25	BB	178	G	N1-C2-N3	8.09	128.75	123.90
25	BB	347	A	C6-C5-N7	8.09	137.96	132.30
25	BB	2803	G	C5-C6-O6	8.09	133.45	128.60
25	BB	637	A	N7-C8-N9	-8.09	109.76	113.80
25	BB	722	A	C5-C6-N1	8.09	121.74	117.70
25	BB	2495	G	N3-C4-C5	-8.09	124.56	128.60
25	BB	2799	A	N9-C1'-C2'	8.09	124.51	114.00
2	AM	8	U	C2-N3-C4	-8.08	122.15	127.00
3	A1	222	C	C4'-C3'-C2'	-8.08	94.52	102.60
3	A1	496	A	C4-C5-C6	-8.08	112.96	117.00
3	A1	1503	A	O4'-C1'-N9	8.08	114.67	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	263	G	C2-N3-C4	8.08	115.94	111.90
25	BB	1099	G	C6-N1-C2	-8.08	120.25	125.10
25	BB	1532	A	N1-C2-N3	-8.08	125.26	129.30
25	BB	1652	A	N1-C2-N3	-8.08	125.26	129.30
25	BB	2032	G	N3-C4-N9	8.08	130.85	126.00
25	BB	2703	C	C5-C4-N4	-8.08	114.54	120.20
1	AA	41	U	N3-C4-O4	-8.08	113.74	119.40
2	AM	18	U	C4-C5-C6	8.08	124.55	119.70
3	A1	78	A	C2-N3-C4	8.08	114.64	110.60
3	A1	299	G	O4'-C1'-N9	8.08	114.66	108.20
3	A1	783	C	C5'-C4'-C3'	-8.08	103.07	116.00
3	A1	868	C	N3-C4-N4	-8.08	112.34	118.00
3	A1	1072	G	N9-C4-C5	8.08	108.63	105.40
25	BB	114	U	C5-C6-N1	-8.08	118.66	122.70
25	BB	135	U	C1'-O4'-C4'	-8.08	103.44	109.90
25	BB	254	G	C1'-O4'-C4'	-8.08	103.44	109.90
25	BB	1776	G	N3-C4-C5	-8.08	124.56	128.60
25	BB	146	A	C6-C5-N7	8.08	137.96	132.30
25	BB	1342	A	C5-C6-N1	8.08	121.74	117.70
25	BB	1414	C	O4'-C1'-N1	8.08	114.66	108.20
25	BB	1860	G	O4'-C1'-N9	8.08	114.66	108.20
1	AP	65	G	C5'-C4'-O4'	8.08	118.79	109.10
25	BB	1924	C	O4'-C1'-N1	8.08	114.66	108.20
3	A1	54	C	C2-N3-C4	-8.08	115.86	119.90
3	A1	317	U	O4'-C4'-C3'	-8.08	95.92	104.00
3	A1	594	U	C4-C5-C6	8.08	124.55	119.70
3	A1	1117	A	C5-C6-N6	8.08	130.16	123.70
3	A1	1193	G	N9-C1'-C2'	-8.08	103.11	112.00
25	BB	174	U	C1'-O4'-C4'	-8.08	103.44	109.90
25	BB	984	A	C5-N7-C8	-8.08	99.86	103.90
25	BB	1142	A	C2-N3-C4	8.08	114.64	110.60
25	BB	1994	C	N1-C2-O2	8.08	123.75	118.90
25	BB	2186	G	C5-C6-N1	8.08	115.54	111.50
25	BB	1281	G	N1-C2-N2	-8.08	108.93	116.20
25	BB	2201	G	C5-C6-O6	8.08	133.44	128.60
25	BB	2315	G	C4'-C3'-C2'	-8.08	94.52	102.60
25	BB	2829	A	C4-C5-C6	-8.08	112.96	117.00
50	B1	40	ARG	NE-CZ-NH1	8.08	124.34	120.30
1	AE	32	C	N1-C2-O2	8.07	123.75	118.90
3	A1	334	C	C6-N1-C2	-8.07	117.07	120.30
24	BA	3	C	N1-C2-N3	8.07	124.85	119.20
25	BB	649	G	N3-C2-N2	-8.07	114.25	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	778	G	N1-C2-N3	8.07	128.75	123.90
25	BB	1390	U	C3'-C2'-C1'	-8.07	95.04	101.50
24	BA	77	U	C6-N1-C2	-8.07	116.16	121.00
25	BB	1719	G	N3-C4-N9	-8.07	121.16	126.00
25	BB	2644	G	N3-C2-N2	-8.07	114.25	119.90
3	A1	539	A	N9-C4-C5	8.07	109.03	105.80
25	BB	45	G	N9-C4-C5	-8.07	102.17	105.40
25	BB	2634	A	C6-C5-N7	8.07	137.95	132.30
3	A1	524	G	O4'-C1'-N9	8.07	114.66	108.20
25	BB	14	A	C6-C5-N7	8.07	137.95	132.30
25	BB	290	U	C2-N3-C4	-8.07	122.16	127.00
25	BB	553	G	C3'-C2'-C1'	-8.07	95.05	101.50
25	BB	619	G	C3'-C2'-C1'	8.07	107.96	101.50
25	BB	2004	G	O4'-C1'-N9	-8.07	101.74	108.20
25	BB	690	G	C4-C5-N7	-8.07	107.57	110.80
25	BB	2286	G	C5-C6-O6	8.07	133.44	128.60
50	B1	114	ARG	NH1-CZ-NH2	-8.07	110.52	119.40
3	A1	335	C	C5-C6-N1	-8.07	116.97	121.00
3	A1	395	C	N3-C4-C5	8.07	125.13	121.90
3	A1	666	G	C5-C6-O6	-8.07	123.76	128.60
25	BB	247	G	N3-C2-N2	-8.07	114.25	119.90
25	BB	370	G	N9-C4-C5	-8.07	102.17	105.40
3	A1	504	C	N1-C2-O2	8.07	123.74	118.90
25	BB	258	G	C6-C5-N7	8.07	135.24	130.40
25	BB	953	G	C8-N9-C4	-8.07	103.17	106.40
25	BB	1861	G	N1-C6-O6	-8.07	115.06	119.90
25	BB	2152	G	C6-N1-C2	-8.07	120.26	125.10
3	A1	1094	G	N9-C1'-C2'	8.06	124.48	114.00
24	BA	62	C	N3-C4-N4	-8.06	112.35	118.00
3	A1	1043	G	C5-N7-C8	8.06	108.33	104.30
3	A1	1426	G	N7-C8-N9	-8.06	109.07	113.10
25	BB	366	C	N3-C4-N4	-8.06	112.35	118.00
25	BB	753	A	C4-C5-N7	-8.06	106.67	110.70
25	BB	886	A	C1'-O4'-C4'	-8.06	103.45	109.90
25	BB	1177	G	N3-C4-C5	-8.06	124.57	128.60
25	BB	1641	A	C8-N9-C4	-8.06	102.57	105.80
25	BB	2424	C	C1'-O4'-C4'	-8.06	103.45	109.90
3	A1	366	A	C4-C5-N7	-8.06	106.67	110.70
3	A1	487	A	N1-C6-N6	-8.06	113.76	118.60
3	A1	510	A	C5-C6-N6	8.06	130.15	123.70
3	A1	856	C	C4-C5-C6	-8.06	113.37	117.40
3	A1	1392	G	P-O3'-C3'	8.06	129.37	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	266	G	C2-N3-C4	-8.06	107.87	111.90
25	BB	775	G	C4-C5-N7	-8.06	107.58	110.80
25	BB	1140	C	N3-C2-O2	-8.06	116.26	121.90
25	BB	1211	C	C5'-C4'-O4'	8.06	118.77	109.10
25	BB	2085	U	N3-C2-O2	-8.06	116.56	122.20
25	BB	2802	G	N1-C2-N2	8.06	123.45	116.20
52	B3	169	ARG	NE-CZ-NH2	8.06	124.33	120.30
3	A1	237	G	P-O3'-C3'	8.06	129.37	119.70
3	A1	1260	G	N3-C2-N2	-8.06	114.26	119.90
3	A1	1328	C	C6-N1-C2	-8.06	117.08	120.30
25	BB	174	U	N3-C2-O2	-8.06	116.56	122.20
25	BB	1036	G	C5-N7-C8	8.06	108.33	104.30
25	BB	1373	A	C5-N7-C8	8.06	107.93	103.90
25	BB	196	A	N1-C2-N3	-8.05	125.27	129.30
25	BB	462	C	N3-C2-O2	-8.05	116.26	121.90
25	BB	938	G	N3-C2-N2	-8.06	114.26	119.90
25	BB	2407	A	C6-N1-C2	8.05	123.43	118.60
1	AP	12	U	N3-C4-C5	-8.05	109.77	114.60
1	AE	63	C	C3'-C2'-C1'	8.05	107.94	101.50
25	BB	36	G	N1-C2-N3	8.05	128.73	123.90
25	BB	391	A	C4-C5-C6	-8.05	112.97	117.00
25	BB	855	G	C5-C6-N1	8.05	115.53	111.50
25	BB	1278	C	C5-C6-N1	-8.05	116.97	121.00
25	BB	2324	U	N3-C4-C5	8.05	119.43	114.60
25	BB	2801	G	C5-N7-C8	-8.05	100.27	104.30
25	BB	2379	G	O4'-C1'-C2'	8.05	114.85	107.60
25	BB	2620	C	N3-C4-N4	-8.05	112.36	118.00
32	BI	52	ARG	NE-CZ-NH1	8.05	124.33	120.30
1	AP	8	U	O4'-C1'-N1	8.05	114.64	108.20
3	A1	623	C	N3-C4-C5	8.05	125.12	121.90
3	A1	953	G	N1-C6-O6	-8.05	115.07	119.90
1	AP	27	C	N1-C2-N3	8.05	124.83	119.20
3	A1	722	G	N1-C2-N3	8.05	128.73	123.90
24	BA	33	G	N3-C4-N9	8.05	130.83	126.00
25	BB	112	U	C5-C6-N1	-8.05	118.67	122.70
25	BB	1425	G	C5-C6-O6	8.05	133.43	128.60
25	BB	1727	C	N3-C2-O2	-8.05	116.26	121.90
25	BB	1934	C	C4'-C3'-C2'	-8.05	94.55	102.60
25	BB	2396	G	C8-N9-C4	-8.05	103.18	106.40
3	A1	100	G	N7-C8-N9	8.05	117.12	113.10
25	BB	79	C	C4-C5-C6	-8.05	113.38	117.40
3	A1	359	G	N1-C6-O6	-8.05	115.07	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	765	G	C5-C6-N1	8.05	115.52	111.50
3	A1	823	C	N1-C2-N3	8.05	124.83	119.20
3	A1	1300	G	C6-N1-C2	-8.05	120.27	125.10
25	BB	70	G	C3'-C2'-C1'	8.05	107.94	101.50
25	BB	234	U	C5-C6-N1	-8.05	118.67	122.70
25	BB	274	C	C4'-C3'-C2'	-8.05	94.55	102.60
25	BB	295	G	N3-C2-N2	-8.05	114.27	119.90
25	BB	497	A	N7-C8-N9	8.05	117.83	113.80
25	BB	578	G	C1'-O4'-C4'	-8.05	103.46	109.90
25	BB	579	G	C6-N1-C2	-8.05	120.27	125.10
25	BB	1437	C	C5-C4-N4	-8.05	114.57	120.20
25	BB	1457	U	C5-C4-O4	8.05	130.73	125.90
25	BB	1576	U	N1-C2-N3	8.05	119.73	114.90
25	BB	1625	C	C5-C4-N4	8.05	125.83	120.20
25	BB	2222	C	N1-C2-N3	8.05	124.83	119.20
25	BB	2730	C	N3-C4-C5	8.05	125.12	121.90
25	BB	2889	C	C2-N3-C4	-8.05	115.88	119.90
3	A1	918	A	C8-N9-C4	8.05	109.02	105.80
24	BA	100	G	C2-N3-C4	8.05	115.92	111.90
25	BB	381	G	C6-N1-C2	-8.05	120.27	125.10
25	BB	2319	G	C8-N9-C4	-8.05	103.18	106.40
1	AP	51	G	O4'-C1'-N9	8.04	114.64	108.20
3	A1	1193	G	C8-N9-C4	-8.04	103.18	106.40
10	AI	23	ASP	CB-CG-OD1	8.04	125.54	118.30
25	BB	184	C	C4-C5-C6	-8.04	113.38	117.40
25	BB	1172	C	C2-N3-C4	-8.04	115.88	119.90
25	BB	2095	A	N9-C4-C5	-8.04	102.58	105.80
25	BB	2393	U	C4-C5-C6	8.04	124.53	119.70
1	AE	27	C	C6-N1-C2	-8.04	117.08	120.30
3	A1	89	U	N3-C2-O2	-8.04	116.57	122.20
3	A1	414	A	C2-N3-C4	8.04	114.62	110.60
3	A1	550	G	C6-C5-N7	8.04	135.22	130.40
3	A1	1230	C	C4-C5-C6	-8.04	113.38	117.40
3	A1	1313	U	N3-C4-O4	8.04	125.03	119.40
3	A1	1461	G	C6-C5-N7	-8.04	125.57	130.40
25	BB	412	A	C6-C5-N7	8.04	137.93	132.30
25	BB	471	A	N7-C8-N9	8.04	117.82	113.80
25	BB	1280	G	C5-C6-N1	8.04	115.52	111.50
25	BB	1377	G	N3-C4-C5	-8.04	124.58	128.60
27	BD	106	GLU	OE1-CD-OE2	-8.04	113.65	123.30
1	AE	10	G	C4-C5-C6	-8.04	113.98	118.80
3	A1	100	G	C5'-C4'-O4'	8.04	118.75	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	993	G	N1-C6-O6	-8.04	115.08	119.90
3	A1	1320	C	N1-C2-O2	8.04	123.72	118.90
23	AX	48	ARG	NH1-CZ-NH2	-8.04	110.56	119.40
25	BB	312	G	N9-C4-C5	8.04	108.62	105.40
25	BB	844	A	C4-C5-C6	-8.04	112.98	117.00
25	BB	1139	G	C5-N7-C8	-8.04	100.28	104.30
25	BB	1599	U	C5-C6-N1	-8.04	118.68	122.70
1	AP	27	C	C5'-C4'-O4'	8.04	118.74	109.10
1	AE	47	U	O4'-C4'-C3'	8.04	112.53	106.10
3	A1	626	G	O4'-C1'-N9	8.04	114.63	108.20
25	BB	1228	G	C4-C5-N7	8.04	114.02	110.80
25	BB	1790	C	N3-C4-N4	-8.04	112.37	118.00
25	BB	2515	C	C3'-C2'-C1'	8.04	107.93	101.50
25	BB	2595	G	N1-C2-N3	8.04	128.72	123.90
1	AA	52	U	C4'-C3'-C2'	-8.04	94.56	102.60
3	A1	525	C	C3'-C2'-C1'	8.04	107.93	101.50
3	A1	1332	A	C2-N3-C4	8.04	114.62	110.60
25	BB	2491	U	C1'-O4'-C4'	-8.04	103.47	109.90
25	BB	2529	G	C4-C5-N7	-8.04	107.59	110.80
12	AK	62	ARG	NE-CZ-NH2	8.03	124.32	120.30
25	BB	172	A	C2-N3-C4	8.03	114.62	110.60
25	BB	910	A	O4'-C1'-N9	8.03	114.63	108.20
25	BB	1958	C	N3-C2-O2	-8.04	116.28	121.90
25	BB	1986	C	C1'-O4'-C4'	-8.03	103.47	109.90
25	BB	2664	G	C5'-C4'-O4'	8.03	118.74	109.10
3	A1	82	G	N1-C2-N2	-8.03	108.97	116.20
3	A1	160	A	O4'-C1'-N9	8.03	114.63	108.20
3	A1	165	G	N1-C6-O6	-8.03	115.08	119.90
3	A1	896	C	C2-N3-C4	-8.03	115.88	119.90
3	A1	787	A	C5-C6-N6	8.03	130.12	123.70
25	BB	87	U	C2-N3-C4	-8.03	122.18	127.00
25	BB	168	G	O4'-C1'-N9	8.03	114.62	108.20
25	BB	752	A	C6-C5-N7	8.03	137.92	132.30
25	BB	1842	G	C4-C5-C6	-8.03	113.98	118.80
25	BB	1897	G	C4-C5-N7	-8.03	107.59	110.80
25	BB	2775	G	N1-C2-N3	8.03	128.72	123.90
1	AA	19	G	C8-N9-C4	8.03	109.61	106.40
3	A1	303	A	N9-C4-C5	-8.03	102.59	105.80
3	A1	233	C	C3'-C2'-C1'	8.03	107.92	101.50
3	A1	497	G	N9-C4-C5	8.03	108.61	105.40
3	A1	1200	C	C3'-C2'-C1'	8.03	107.92	101.50
25	BB	45	G	C5-C6-N1	8.03	115.51	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	149	A	C6-C5-N7	8.03	137.92	132.30
25	BB	851	C	N1-C2-N3	8.03	124.82	119.20
48	BY	82	PHE	CB-CG-CD2	-8.03	115.18	120.80
25	BB	938	G	N1-C2-N3	8.03	128.72	123.90
25	BB	1161	C	C5'-C4'-O4'	8.03	118.73	109.10
25	BB	1186	G	C3'-C2'-C1'	8.03	107.92	101.50
25	BB	1238	G	C8-N9-C4	-8.03	103.19	106.40
25	BB	1948	G	C6-N1-C2	-8.03	120.28	125.10
25	BB	2484	G	O4'-C1'-N9	-8.03	101.78	108.20
1	AP	31	A	C4'-C3'-O3'	8.03	129.05	113.00
3	A1	1218	C	C1'-O4'-C4'	-8.03	103.48	109.90
24	BA	49	C	N1-C1'-C2'	-8.03	103.17	112.00
25	BB	1117	C	O4'-C1'-C2'	-8.03	97.77	105.80
25	BB	1775	U	N1-C1'-C2'	8.03	124.44	114.00
25	BB	1805	A	O4'-C1'-N9	8.03	114.62	108.20
25	BB	2171	A	O5'-P-OP2	-8.03	98.47	105.70
25	BB	2430	A	C5-C6-N6	8.03	130.12	123.70
25	BB	2609	U	C4-C5-C6	8.03	124.52	119.70
25	BB	2643	G	N1-C2-N3	-8.03	119.08	123.90
3	A1	484	G	N1-C6-O6	-8.03	115.08	119.90
3	A1	248	C	N1-C2-O2	8.02	123.72	118.90
3	A1	1509	C	C5'-C4'-O4'	8.02	118.73	109.10
25	BB	835	C	C3'-C2'-C1'	8.02	107.92	101.50
3	A1	408	A	N1-C6-N6	-8.02	113.79	118.60
3	A1	555	U	C5-C4-O4	-8.02	121.09	125.90
3	A1	1172	C	C6-N1-C1'	8.02	130.43	120.80
3	A1	1411	C	C2-N3-C4	-8.02	115.89	119.90
25	BB	253	C	C6-N1-C2	-8.02	117.09	120.30
25	BB	9	G	N3-C4-C5	-8.02	124.59	128.60
25	BB	322	A	C2-N3-C4	8.02	114.61	110.60
25	BB	376	G	C6-C5-N7	8.02	135.21	130.40
25	BB	1068	G	C8-N9-C4	-8.02	103.19	106.40
25	BB	2212	A	N1-C2-N3	-8.02	125.29	129.30
25	BB	2602	A	C5'-C4'-O4'	8.02	118.72	109.10
3	A1	356	A	C4-C5-C6	-8.02	112.99	117.00
3	A1	568	G	C6-C5-N7	8.02	135.21	130.40
3	A1	662	U	C5-C6-N1	-8.02	118.69	122.70
3	A1	350	G	N1-C6-O6	-8.02	115.09	119.90
3	A1	403	C	C4'-C3'-C2'	-8.02	94.58	102.60
3	A1	962	C	C2'-C3'-O3'	8.02	127.14	109.50
3	A1	642	A	C4-C5-C6	-8.02	112.99	117.00
3	A1	981	U	N1-C2-N3	8.02	119.71	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1175	G	C2-N3-C4	8.02	115.91	111.90
3	A1	1272	G	C6-C5-N7	8.02	135.21	130.40
25	BB	232	G	C3'-C2'-C1'	-8.02	95.08	101.50
25	BB	384	A	O4'-C1'-N9	-8.02	101.78	108.20
25	BB	484	C	N1-C2-N3	8.02	124.81	119.20
25	BB	643	A	C5-C6-N1	8.02	121.71	117.70
25	BB	818	G	N1-C6-O6	-8.02	115.09	119.90
25	BB	2219	U	C5'-C4'-C3'	-8.02	103.17	116.00
25	BB	2371	G	N3-C2-N2	-8.02	114.29	119.90
25	BB	2430	A	N7-C8-N9	8.02	117.81	113.80
25	BB	1629	U	C3'-C2'-C1'	8.02	107.91	101.50
3	A1	1149	C	C6-N1-C2	-8.02	117.09	120.30
25	BB	1266	G	N7-C8-N9	8.02	117.11	113.10
1	AA	33	U	C4-C5-C6	8.02	124.51	119.70
1	AE	14	A	N1-C2-N3	-8.02	125.29	129.30
3	A1	11	G	N3-C4-C5	-8.02	124.59	128.60
3	A1	595	A	N7-C8-N9	8.02	117.81	113.80
3	A1	703	G	N7-C8-N9	-8.02	109.09	113.10
3	A1	848	C	N3-C2-O2	-8.02	116.29	121.90
3	A1	1206	G	N9-C4-C5	8.02	108.61	105.40
25	BB	1140	C	C1'-O4'-C4'	-8.02	103.49	109.90
25	BB	486	C	C5-C4-N4	-8.02	114.59	120.20
25	BB	1564	C	C4-C5-C6	-8.02	113.39	117.40
25	BB	1990	C	N1-C2-O2	8.02	123.71	118.90
25	BB	2191	A	C1'-O4'-C4'	-8.02	103.49	109.90
25	BB	2812	G	C5-C6-N1	8.02	115.51	111.50
25	BB	2819	G	C5-N7-C8	8.02	108.31	104.30
1	AE	57	G	C1'-O4'-C4'	-8.01	103.49	109.90
3	A1	380	G	N3-C4-C5	-8.01	124.59	128.60
25	BB	38	A	C6-C5-N7	8.01	137.91	132.30
25	BB	361	G	C5-C6-O6	8.01	133.41	128.60
25	BB	604	G	N9-C4-C5	8.01	108.61	105.40
25	BB	1138	G	C5-C6-O6	8.01	133.41	128.60
25	BB	1862	G	O4'-C1'-N9	-8.01	101.79	108.20
25	BB	1923	U	C1'-O4'-C4'	8.01	116.31	109.90
3	A1	1347	G	C5-C6-N1	8.01	115.51	111.50
25	BB	77	G	C4-C5-N7	-8.01	107.59	110.80
25	BB	759	G	C5-C6-N1	8.01	115.51	111.50
25	BB	1020	A	C4-C5-N7	-8.01	106.69	110.70
25	BB	1235	G	N1-C6-O6	-8.01	115.09	119.90
25	BB	1481	U	N1-C2-O2	8.01	128.41	122.80
25	BB	1509	A	O4'-C1'-N9	8.01	114.61	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2414	G	N3-C4-C5	-8.01	124.59	128.60
25	BB	1772	A	N1-C2-N3	-8.01	125.29	129.30
25	BB	1871	A	N1-C6-N6	-8.01	113.79	118.60
45	BV	35	ARG	NE-CZ-NH2	-8.01	116.29	120.30
51	B2	112	ASP	CB-CG-OD1	8.01	125.51	118.30
1	AP	65	G	C5-C6-O6	8.01	133.41	128.60
3	A1	147	G	C6-N1-C2	-8.01	120.29	125.10
3	A1	287	U	C5'-C4'-C3'	-8.01	103.18	116.00
3	A1	615	G	C5-C6-O6	8.01	133.41	128.60
3	A1	1097	C	N1-C2-O2	8.01	123.70	118.90
3	A1	1157	A	N1-C6-N6	-8.01	113.79	118.60
24	BA	41	G	C5-N7-C8	-8.01	100.30	104.30
25	BB	6	A	C6-C5-N7	8.01	137.91	132.30
25	BB	717	C	C4-C5-C6	8.01	121.41	117.40
25	BB	1602	U	O4'-C1'-N1	8.01	114.61	108.20
25	BB	1996	C	C2-N3-C4	-8.01	115.89	119.90
1	AA	58	A	C6-C5-N7	8.01	137.91	132.30
3	A1	1195	C	C6-N1-C2	-8.01	117.10	120.30
3	A1	1209	C	C2-N3-C4	-8.01	115.90	119.90
25	BB	242	G	C5-C6-N1	8.01	115.50	111.50
25	BB	730	A	N7-C8-N9	8.01	117.80	113.80
25	BB	749	A	C4-C5-C6	-8.01	113.00	117.00
3	A1	1253	G	N1-C2-N2	-8.01	109.00	116.20
3	A1	1332	A	C5-N7-C8	-8.01	99.90	103.90
25	BB	1622	G	N7-C8-N9	8.01	117.10	113.10
25	BB	2502	G	C2'-C3'-O3'	8.01	127.11	109.50
50	B1	101	TYR	CB-CG-CD1	-8.01	116.20	121.00
3	A1	889	A	C5'-C4'-O4'	8.00	118.70	109.10
3	A1	901	A	C8-N9-C4	-8.00	102.60	105.80
25	BB	496	G	C6-N1-C2	-8.00	120.30	125.10
3	A1	331	G	N3-C2-N2	8.00	125.50	119.90
3	A1	1012	A	C6-C5-N7	8.00	137.90	132.30
25	BB	158	U	C6-N1-C2	-8.00	116.20	121.00
25	BB	1486	U	C5'-C4'-C3'	-8.00	103.19	116.00
25	BB	2002	G	C1'-O4'-C4'	-8.00	103.50	109.90
34	BK	53	PHE	CB-CG-CD2	-8.00	115.20	120.80
25	BB	2491	U	O4'-C4'-C3'	8.00	112.50	106.10
3	A1	517	G	N1-C6-O6	-8.00	115.10	119.90
3	A1	1200	C	O3'-P-O5'	8.00	119.20	104.00
3	A1	1492	A	C3'-C2'-C1'	-8.00	95.10	101.50
25	BB	226	A	O4'-C4'-C3'	8.00	112.50	106.10
25	BB	970	U	N3-C4-C5	8.00	119.40	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	982	C	C4-C5-C6	-8.00	113.40	117.40
25	BB	1259	G	N3-C4-C5	-8.00	124.60	128.60
25	BB	1345	C	N3-C4-C5	-8.00	118.70	121.90
25	BB	2029	G	C5-C6-N1	8.00	115.50	111.50
49	BZ	4	ASP	CB-CG-OD1	-8.00	111.10	118.30
1	AA	39	U	O4'-C1'-N1	8.00	114.60	108.20
3	A1	111	G	N1-C2-N3	8.00	128.70	123.90
3	A1	734	G	N1-C6-O6	-8.00	115.10	119.90
3	A1	786	G	C3'-C2'-C1'	8.00	107.90	101.50
3	A1	1310	G	O4'-C1'-N9	8.00	114.60	108.20
24	BA	92	C	C5-C6-N1	-8.00	117.00	121.00
25	BB	2081	U	N3-C4-C5	8.00	119.40	114.60
25	BB	2095	A	C5-C6-N6	8.00	130.10	123.70
25	BB	2462	C	C1'-O4'-C4'	-8.00	103.50	109.90
25	BB	2646	C	N3-C4-C5	8.00	125.10	121.90
25	BB	2747	G	O4'-C1'-N9	8.00	114.60	108.20
1	AA	62	A	N1-C2-N3	-8.00	125.30	129.30
3	A1	236	A	C5-C6-N1	8.00	121.70	117.70
3	A1	357	G	N9-C4-C5	-8.00	102.20	105.40
25	BB	450	G	N1-C6-O6	-8.00	115.10	119.90
25	BB	494	G	N7-C8-N9	8.00	117.10	113.10
25	BB	803	U	N3-C2-O2	-8.00	116.60	122.20
25	BB	963	U	O4'-C4'-C3'	-8.00	96.00	104.00
3	A1	1380	U	C2-N3-C4	-8.00	122.20	127.00
25	BB	668	A	C5-C6-N1	8.00	121.70	117.70
25	BB	1568	G	C2-N3-C4	8.00	115.90	111.90
25	BB	2271	G	N7-C8-N9	8.00	117.10	113.10
25	BB	173	A	N1-C6-N6	-7.99	113.80	118.60
25	BB	449	A	C5-C6-N6	7.99	130.09	123.70
25	BB	878	A	N9-C1'-C2'	7.99	124.39	114.00
25	BB	1910	G	N3-C4-N9	7.99	130.80	126.00
25	BB	2371	G	N1-C6-O6	-7.99	115.10	119.90
25	BB	2666	C	O4'-C4'-C3'	7.99	112.49	106.10
25	BB	2721	A	C5-C6-N1	7.99	121.70	117.70
3	A1	890	G	N1-C2-N3	7.99	128.69	123.90
3	A1	1305	G	C2-N3-C4	7.99	115.90	111.90
25	BB	2420	C	C2-N3-C4	-7.99	115.90	119.90
1	AA	72	C	O4'-C1'-N1	7.99	114.59	108.20
1	AE	25	C	C5-C6-N1	-7.99	117.00	121.00
3	A1	141	G	N3-C4-C5	-7.99	124.61	128.60
3	A1	297	G	N7-C8-N9	7.99	117.09	113.10
25	BB	735	A	N1-C2-N3	-7.99	125.30	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	826	U	C4-C5-C6	7.99	124.49	119.70
25	BB	965	C	C5-C6-N1	7.99	125.00	121.00
25	BB	1584	U	C5-C4-O4	-7.99	121.11	125.90
25	BB	1605	C	N1-C2-O2	7.99	123.69	118.90
25	BB	1823	G	C6-N1-C2	-7.99	120.31	125.10
25	BB	1894	C	N3-C2-O2	-7.99	116.31	121.90
25	BB	2188	U	C2-N3-C4	-7.99	122.21	127.00
21	AV	76	ARG	CD-NE-CZ	7.99	134.78	123.60
25	BB	303	G	C8-N9-C4	-7.99	103.20	106.40
25	BB	546	U	O4'-C4'-C3'	7.99	112.49	106.10
25	BB	2397	G	N1-C6-O6	-7.99	115.11	119.90
25	BB	2722	G	C5-C6-N1	-7.99	107.51	111.50
3	A1	349	A	C4-C5-N7	7.99	114.69	110.70
25	BB	101	A	O4'-C1'-N9	7.99	114.59	108.20
25	BB	655	A	N1-C2-N3	-7.99	125.31	129.30
25	BB	1799	G	N3-C2-N2	-7.99	114.31	119.90
25	BB	1853	A	O4'-C1'-N9	7.99	114.59	108.20
1	AE	65	G	N3-C4-C5	-7.99	124.61	128.60
3	A1	27	G	C8-N9-C4	-7.99	103.21	106.40
3	A1	652	U	C5-C6-N1	-7.99	118.71	122.70
3	A1	1177	G	N1-C2-N3	7.99	128.69	123.90
3	A1	1297	G	C5-C6-O6	-7.99	123.81	128.60
3	A1	1373	G	C6-N1-C2	-7.99	120.31	125.10
3	A1	1504	G	C8-N9-C4	-7.99	103.20	106.40
25	BB	32	C	N1-C2-O2	7.99	123.69	118.90
25	BB	620	G	C1'-O4'-C4'	7.99	116.29	109.90
25	BB	981	A	N7-C8-N9	7.99	117.79	113.80
25	BB	990	A	N1-C6-N6	-7.99	113.81	118.60
25	BB	1024	G	C1'-O4'-C4'	7.99	116.29	109.90
1	AA	47	U	C6-N1-C2	-7.98	116.21	121.00
3	A1	782	A	C4-C5-C6	-7.98	113.01	117.00
25	BB	643	A	C5-C6-N6	7.98	130.09	123.70
25	BB	955	U	O4'-C1'-N1	7.98	114.59	108.20
25	BB	1267	U	C6-N1-C2	-7.98	116.21	121.00
1	AA	17	U	C5'-C4'-C3'	-7.98	103.23	116.00
3	A1	446	G	C8-N9-C4	-7.98	103.21	106.40
3	A1	1105	A	O4'-C1'-N9	-7.98	101.81	108.20
25	BB	644	A	N3-C4-C5	-7.98	121.21	126.80
25	BB	1128	G	C5-N7-C8	-7.98	100.31	104.30
25	BB	1357	C	N3-C2-O2	-7.98	116.31	121.90
25	BB	1980	G	C1'-O4'-C4'	-7.98	103.51	109.90
25	BB	2061	G	C6-C5-N7	-7.98	125.61	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	232	G	N1-C6-O6	-7.98	115.11	119.90
3	A1	600	A	C5-N7-C8	7.98	107.89	103.90
3	A1	743	A	C6-C5-N7	7.98	137.89	132.30
3	A1	1340	A	C5-C6-N1	7.98	121.69	117.70
3	A1	1497	G	C5-N7-C8	-7.98	100.31	104.30
3	A1	1514	G	C8-N9-C4	-7.98	103.21	106.40
25	BB	1159	U	C5'-C4'-O4'	7.98	118.68	109.10
25	BB	1724	G	N3-C2-N2	7.98	125.49	119.90
25	BB	2071	A	N9-C4-C5	7.98	108.99	105.80
25	BB	2108	A	C8-N9-C4	-7.98	102.61	105.80
25	BB	2138	G	N9-C4-C5	7.98	108.59	105.40
25	BB	2256	G	N1-C6-O6	-7.98	115.11	119.90
25	BB	469	G	C2-N3-C4	7.98	115.89	111.90
25	BB	1030	C	N3-C2-O2	-7.98	116.31	121.90
25	BB	2181	U	N3-C2-O2	-7.98	116.61	122.20
1	AP	65	G	C4'-C3'-C2'	-7.98	94.62	102.60
3	A1	27	G	C5-C6-N1	7.98	115.49	111.50
3	A1	943	U	N1-C2-N3	7.98	119.69	114.90
25	BB	354	A	C3'-C2'-C1'	-7.98	95.12	101.50
25	BB	869	G	C3'-C2'-C1'	7.98	107.88	101.50
25	BB	2084	C	O4'-C1'-N1	-7.98	101.82	108.20
3	A1	1427	C	O4'-C1'-N1	7.98	114.58	108.20
25	BB	786	C	N3-C4-C5	7.98	125.09	121.90
1	AA	58	A	C1'-O4'-C4'	-7.97	103.52	109.90
3	A1	263	A	N1-C6-N6	-7.97	113.81	118.60
3	A1	634	C	N1-C2-O2	7.97	123.69	118.90
3	A1	661	G	C8-N9-C4	-7.97	103.21	106.40
3	A1	989	U	P-O3'-C3'	7.97	129.27	119.70
25	BB	362	A	N7-C8-N9	7.97	117.79	113.80
25	BB	688	U	N3-C4-O4	7.97	124.98	119.40
25	BB	1027	A	C1'-O4'-C4'	-7.97	103.52	109.90
25	BB	1032	A	C5-C6-N1	7.97	121.69	117.70
25	BB	1283	G	C4-C5-C6	-7.97	114.02	118.80
25	BB	1323	C	N3-C4-N4	-7.97	112.42	118.00
25	BB	1416	G	N1-C6-O6	-7.97	115.11	119.90
25	BB	1551	A	C1'-O4'-C4'	-7.97	103.52	109.90
25	BB	2485	G	C4-C5-N7	-7.97	107.61	110.80
3	A1	1060	U	N1-C2-N3	7.97	119.68	114.90
3	A1	1181	G	N3-C2-N2	-7.97	114.32	119.90
3	A1	1346	A	O4'-C4'-C3'	7.97	112.48	106.10
3	A1	1513	A	C5-C6-N6	7.97	130.08	123.70
25	BB	354	A	N1-C2-N3	-7.97	125.31	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	933	A	C4'-C3'-C2'	-7.97	94.63	102.60
25	BB	1053	C	C2-N3-C4	-7.97	115.91	119.90
25	BB	1148	U	C4'-C3'-C2'	-7.97	94.63	102.60
25	BB	1175	A	C6-C5-N7	7.97	137.88	132.30
25	BB	1724	G	N1-C2-N2	-7.97	109.02	116.20
25	BB	2658	C	C6-N1-C2	-7.97	117.11	120.30
25	BB	2670	A	C6-N1-C2	-7.97	113.82	118.60
51	B2	122	ASP	CB-CG-OD1	7.97	125.48	118.30
3	A1	723	U	P-O3'-C3'	7.97	129.26	119.70
25	BB	310	A	N1-C6-N6	-7.97	113.82	118.60
25	BB	437	U	C5-C6-N1	-7.97	118.71	122.70
25	BB	536	G	C4-C5-C6	-7.97	114.02	118.80
25	BB	998	C	C4-C5-C6	-7.97	113.42	117.40
25	BB	1393	A	N1-C2-N3	-7.97	125.31	129.30
25	BB	1873	G	C5-C6-N1	7.97	115.49	111.50
25	BB	2400	G	C8-N9-C4	-7.97	103.21	106.40
25	BB	2455	G	P-O3'-C3'	7.97	129.27	119.70
52	B3	54	ARG	NE-CZ-NH2	-7.97	116.31	120.30
3	A1	805	C	C5-C6-N1	-7.97	117.02	121.00
3	A1	1300	G	N1-C2-N2	-7.97	109.03	116.20
25	BB	66	C	O4'-C1'-N1	7.97	114.58	108.20
25	BB	177	G	C5'-C4'-O4'	-7.97	99.54	109.10
25	BB	737	C	O3'-P-O5'	7.97	119.14	104.00
25	BB	1056	G	C2-N3-C4	7.97	115.88	111.90
25	BB	2223	G	O4'-C1'-N9	-7.97	101.83	108.20
25	BB	2386	A	C4'-C3'-C2'	-7.97	94.63	102.60
3	A1	743	A	N1-C2-N3	7.97	133.28	129.30
3	A1	749	A	C4-C5-C6	-7.97	113.02	117.00
3	A1	850	U	C5-C4-O4	7.97	130.68	125.90
25	BB	673	C	C4-C5-C6	-7.97	113.42	117.40
25	BB	855	G	N1-C2-N3	7.97	128.68	123.90
25	BB	1245	G	C4-C5-N7	-7.97	107.61	110.80
3	A1	1093	A	O4'-C1'-N9	7.97	114.57	108.20
3	A1	1344	C	N3-C2-O2	-7.97	116.32	121.90
3	A1	1449	C	C5-C6-N1	-7.97	117.02	121.00
25	BB	73	A	C6-C5-N7	7.97	137.88	132.30
25	BB	128	C	O4'-C1'-N1	7.97	114.57	108.20
25	BB	227	A	C1'-O4'-C4'	-7.97	103.53	109.90
25	BB	391	A	O4'-C1'-N9	7.97	114.57	108.20
25	BB	466	A	C3'-C2'-C1'	-7.97	95.13	101.50
25	BB	654	A	C6-C5-N7	7.97	137.88	132.30
25	BB	781	A	C6-N1-C2	-7.97	113.82	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1584	U	O4'-C1'-N1	7.97	114.57	108.20
25	BB	1822	C	C5'-C4'-C3'	-7.97	103.25	116.00
25	BB	2638	G	C8-N9-C4	-7.97	103.21	106.40
25	BB	2808	G	C8-N9-C4	-7.97	103.21	106.40
1	AP	70	C	C6-N1-C2	7.96	123.48	120.30
3	A1	674	G	C5-N7-C8	-7.96	100.32	104.30
3	A1	1006	G	N3-C2-N2	-7.96	114.33	119.90
25	BB	1405	U	N1-C2-N3	7.96	119.68	114.90
25	BB	2712	C	C3'-C2'-C1'	7.96	107.87	101.50
25	BB	2790	U	C2-N3-C4	-7.96	122.22	127.00
3	A1	11	G	N3-C2-N2	-7.96	114.33	119.90
25	BB	2594	C	N3-C4-N4	-7.96	112.43	118.00
3	A1	100	G	C6-C5-N7	7.96	135.18	130.40
3	A1	184	G	C8-N9-C4	-7.96	103.22	106.40
3	A1	1347	G	C3'-C2'-C1'	-7.96	95.13	101.50
25	BB	857	G	N3-C4-N9	-7.96	121.22	126.00
25	BB	1623	G	C8-N9-C4	-7.96	103.22	106.40
25	BB	1933	G	C8-N9-C4	-7.96	103.22	106.40
25	BB	1980	G	N3-C2-N2	-7.96	114.33	119.90
25	BB	2320	U	C5-C6-N1	-7.96	118.72	122.70
3	A1	1006	G	N3-C4-N9	7.96	130.78	126.00
25	BB	241	A	C8-N9-C4	7.96	108.98	105.80
25	BB	681	G	N3-C2-N2	-7.96	114.33	119.90
25	BB	1543	G	C6-C5-N7	-7.96	125.62	130.40
25	BB	2588	G	N3-C4-N9	7.96	130.78	126.00
1	AA	22	G	N3-C2-N2	-7.96	114.33	119.90
3	A1	411	A	O4'-C1'-N9	7.96	114.57	108.20
3	A1	745	G	C6-N1-C2	-7.96	120.32	125.10
3	A1	988	G	N9-C4-C5	7.96	108.58	105.40
3	A1	1141	C	O5'-C5'-C4'	-7.96	96.58	111.70
18	AS	156	ARG	NH1-CZ-NH2	-7.96	110.64	119.40
24	BA	59	A	C5-C6-N6	7.96	130.07	123.70
25	BB	968	C	C2'-C3'-O3'	7.96	127.01	109.50
25	BB	2568	U	C4-C5-C6	7.96	124.47	119.70
3	A1	293	G	N1-C6-O6	-7.96	115.13	119.90
3	A1	1358	U	O4'-C1'-N1	7.96	114.56	108.20
25	BB	1140	C	N3-C4-N4	-7.96	112.43	118.00
25	BB	2244	U	C6-N1-C2	-7.96	116.23	121.00
25	BB	2613	U	C4-C5-C6	7.96	124.47	119.70
3	A1	385	C	C5-C6-N1	-7.96	117.02	121.00
3	A1	325	A	C1'-O4'-C4'	-7.95	103.54	109.90
25	BB	1019	U	C6-N1-C2	-7.95	116.23	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1310	G	C5-N7-C8	-7.95	100.32	104.30
25	BB	2046	G	N7-C8-N9	7.95	117.08	113.10
25	BB	2059	A	C2-N3-C4	7.95	114.58	110.60
25	BB	2340	A	C6-N1-C2	-7.95	113.83	118.60
1	AA	35	A	N9-C4-C5	7.95	108.98	105.80
25	BB	1703	G	C4-C5-N7	7.95	113.98	110.80
25	BB	1883	U	C6-N1-C2	-7.95	116.23	121.00
25	BB	1920	C	C5-C4-N4	-7.95	114.63	120.20
47	BX	36	ARG	NH1-CZ-NH2	-7.95	110.65	119.40
3	A1	104	G	P-O3'-C3'	7.95	129.24	119.70
3	A1	217	C	C2-N3-C4	-7.95	115.92	119.90
3	A1	554	A	O4'-C4'-C3'	-7.95	96.05	104.00
3	A1	833	G	N1-C6-O6	-7.95	115.13	119.90
3	A1	984	C	C6-N1-C2	-7.95	117.12	120.30
3	A1	1442	G	O4'-C1'-N9	7.95	114.56	108.20
25	BB	1430	G	C4-C5-N7	-7.95	107.62	110.80
25	BB	2475	C	C5-C4-N4	-7.95	114.64	120.20
25	BB	2518	A	C5-C6-N1	7.95	121.67	117.70
25	BB	2815	C	N3-C2-O2	-7.95	116.33	121.90
3	A1	999	C	O4'-C1'-C2'	-7.95	97.85	105.80
25	BB	1085	A	C4'-C3'-C2'	-7.95	94.65	102.60
25	BB	1690	A	C2-N3-C4	7.95	114.57	110.60
25	BB	2030	A	C4-C5-C6	-7.95	113.03	117.00
3	A1	478	A	N1-C6-N6	-7.95	113.83	118.60
3	A1	1083	U	O4'-C1'-C2'	-7.95	97.85	105.80
3	A1	1282	C	C5-C4-N4	7.95	125.76	120.20
25	BB	718	A	C2-N3-C4	7.95	114.57	110.60
25	BB	2040	G	C4-C5-C6	-7.95	114.03	118.80
25	BB	2859	G	C5-C6-O6	7.95	133.37	128.60
1	AP	59	U	C3'-C2'-C1'	7.95	107.86	101.50
1	AE	32	C	O4'-C1'-N1	7.95	114.56	108.20
3	A1	21	G	O4'-C1'-C2'	-7.95	97.86	105.80
3	A1	908	A	C5-N7-C8	-7.95	99.93	103.90
3	A1	1043	G	N1-C6-O6	-7.95	115.13	119.90
3	A1	1274	A	C5-C6-N6	7.95	130.06	123.70
7	AF	85	TYR	CG-CD1-CE1	-7.95	114.94	121.30
25	BB	814	C	N3-C2-O2	-7.95	116.34	121.90
25	BB	985	C	O4'-C4'-C3'	7.95	112.46	106.10
25	BB	1639	C	C4-C5-C6	7.95	121.37	117.40
25	BB	1844	C	C4'-C3'-C2'	-7.95	94.66	102.60
25	BB	2657	A	C2-N3-C4	7.95	114.57	110.60
25	BB	2742	G	C2-N3-C4	-7.95	107.93	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
28	BE	90	VAL	CG1-CB-CG2	-7.95	98.19	110.90
25	BB	2598	A	N7-C8-N9	7.94	117.77	113.80
33	BJ	75	TYR	CB-CG-CD1	-7.94	116.23	121.00
1	AE	38	A	C1'-O4'-C4'	-7.94	103.55	109.90
3	A1	195	A	N1-C2-N3	-7.94	125.33	129.30
3	A1	321	A	C3'-C2'-C1'	7.94	107.85	101.50
3	A1	611	C	C5-C4-N4	7.94	125.76	120.20
3	A1	796	C	N1-C2-O2	7.94	123.67	118.90
25	BB	641	U	C6-N1-C2	-7.94	116.23	121.00
25	BB	1044	C	N1-C2-N3	7.94	124.76	119.20
25	BB	1434	A	O4'-C4'-C3'	-7.94	96.06	104.00
25	BB	1496	A	O4'-C1'-N9	7.94	114.55	108.20
25	BB	1677	A	C5-C6-N1	7.94	121.67	117.70
25	BB	2136	G	C4-C5-N7	-7.94	107.62	110.80
49	BZ	150	ARG	CD-NE-CZ	7.94	134.72	123.60
3	A1	146	G	C5-C6-N1	7.94	115.47	111.50
3	A1	384	G	C4'-C3'-C2'	-7.94	94.66	102.60
3	A1	1411	C	N3-C4-N4	-7.94	112.44	118.00
25	BB	972	A	N7-C8-N9	7.94	117.77	113.80
25	BB	2453	A	N3-C4-C5	-7.94	121.24	126.80
39	BP	38	ARG	NH1-CZ-NH2	-7.94	110.67	119.40
48	BY	17	GLU	OE1-CD-OE2	-7.94	113.77	123.30
3	A1	223	A	C5-C6-N1	7.94	121.67	117.70
25	BB	22	C	C4-C5-C6	-7.94	113.43	117.40
3	A1	237	G	N1-C6-O6	-7.94	115.14	119.90
3	A1	271	C	N3-C4-C5	-7.94	118.72	121.90
3	A1	307	C	O4'-C1'-N1	7.94	114.55	108.20
3	A1	376	G	C5-C6-N1	7.94	115.47	111.50
25	BB	379	G	N3-C2-N2	-7.94	114.34	119.90
25	BB	641	U	C2-N3-C4	-7.94	122.24	127.00
25	BB	980	A	C6-C5-N7	7.94	137.86	132.30
25	BB	1606	C	N1-C2-O2	7.94	123.66	118.90
38	BO	88	ASP	CB-CG-OD2	7.94	125.44	118.30
3	A1	412	A	C5-N7-C8	7.94	107.87	103.90
25	BB	1263	U	C5-C6-N1	-7.94	118.73	122.70
3	A1	99	C	O4'-C1'-N1	-7.93	101.85	108.20
3	A1	244	U	C2-N3-C4	-7.93	122.24	127.00
25	BB	493	G	N7-C8-N9	7.93	117.07	113.10
25	BB	1214	A	C1'-O4'-C4'	-7.93	103.55	109.90
25	BB	1632	A	C4-C5-N7	-7.93	106.73	110.70
25	BB	1650	A	C4-C5-C6	-7.93	113.03	117.00
25	BB	1931	U	O4'-C1'-N1	7.93	114.55	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2556	C	C6-N1-C2	-7.93	117.13	120.30
1	AA	2	C	C5'-C4'-O4'	7.93	118.62	109.10
3	A1	60	A	C1'-O4'-C4'	-7.93	103.55	109.90
3	A1	1178	G	N1-C6-O6	-7.93	115.14	119.90
25	BB	141	G	C5-N7-C8	-7.93	100.33	104.30
25	BB	172	A	O4'-C4'-C3'	7.93	112.45	106.10
25	BB	451	U	C5-C6-N1	-7.93	118.73	122.70
25	BB	512	G	N7-C8-N9	7.93	117.07	113.10
25	BB	565	C	O4'-C1'-N1	7.93	114.55	108.20
25	BB	567	U	N3-C2-O2	-7.93	116.65	122.20
25	BB	662	G	N3-C4-N9	7.93	130.76	126.00
25	BB	1129	A	N7-C8-N9	7.93	117.77	113.80
25	BB	1783	A	O4'-C1'-N9	-7.93	101.85	108.20
25	BB	2589	A	P-O3'-C3'	7.93	129.22	119.70
3	A1	1482	G	O4'-C1'-N9	7.93	114.54	108.20
25	BB	699	A	C5-C6-N1	7.93	121.67	117.70
25	BB	1422	G	N3-C4-N9	7.93	130.76	126.00
25	BB	2585	U	C5-C6-N1	-7.93	118.73	122.70
3	A1	246	A	N1-C2-N3	7.93	133.26	129.30
3	A1	665	A	C5-C6-N6	7.93	130.04	123.70
3	A1	988	G	C4'-C3'-C2'	-7.93	94.67	102.60
3	A1	1449	C	N1-C2-O2	7.93	123.66	118.90
3	A1	1523	G	C6-C5-N7	7.93	135.16	130.40
25	BB	1040	A	C5-C6-N1	7.93	121.66	117.70
25	BB	1049	C	N3-C4-N4	-7.93	112.45	118.00
33	BJ	52	ARG	NE-CZ-NH2	7.93	124.26	120.30
3	A1	772	U	N3-C2-O2	-7.93	116.65	122.20
3	A1	1139	G	N3-C4-N9	7.93	130.76	126.00
25	BB	90	U	N3-C4-C5	7.93	119.36	114.60
1	AP	3	G	O4'-C1'-N9	7.93	114.54	108.20
3	A1	456	A	C5-C6-N6	7.93	130.04	123.70
25	BB	359	G	C4-C5-N7	-7.93	107.63	110.80
25	BB	950	G	C2-N3-C4	7.93	115.86	111.90
25	BB	977	G	O4'-C1'-N9	7.93	114.54	108.20
25	BB	1001	A	C6-C5-N7	7.93	137.85	132.30
25	BB	1313	U	C1'-O4'-C4'	-7.93	103.56	109.90
25	BB	1608	A	C8-N9-C4	-7.93	102.63	105.80
25	BB	2341	G	N3-C4-C5	-7.93	124.64	128.60
3	A1	687	A	N1-C2-N3	-7.92	125.34	129.30
3	A1	1099	G	N3-C4-N9	7.92	130.75	126.00
3	A1	1323	G	C5-C6-N1	7.92	115.46	111.50
3	A1	1423	G	C2-N3-C4	7.92	115.86	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	28	C	N1-C2-N3	7.92	124.75	119.20
25	BB	399	U	C1'-O4'-C4'	-7.92	103.56	109.90
25	BB	877	A	C5-C6-N6	7.92	130.04	123.70
25	BB	1371	G	C6-C5-N7	7.92	135.15	130.40
25	BB	1390	U	N3-C2-O2	-7.92	116.65	122.20
25	BB	1785	A	N7-C8-N9	-7.92	109.84	113.80
25	BB	2307	G	N1-C6-O6	-7.92	115.14	119.90
25	BB	2386	A	C6-C5-N7	7.92	137.85	132.30
25	BB	2661	G	N7-C8-N9	7.92	117.06	113.10
3	A1	1501	C	C3'-C2'-C1'	7.92	107.84	101.50
25	BB	1331	G	C2-N3-C4	7.92	115.86	111.90
25	BB	2738	A	C2-N3-C4	7.92	114.56	110.60
1	AP	32	C	O4'-C1'-N1	7.92	114.54	108.20
2	AM	6	U	C5-C6-N1	7.92	126.66	122.70
3	A1	547	A	C5-C6-N6	7.92	130.04	123.70
3	A1	577	G	N1-C2-N3	7.92	128.65	123.90
25	BB	259	G	C8-N9-C4	-7.92	103.23	106.40
25	BB	1445	G	O4'-C1'-N9	7.92	114.54	108.20
25	BB	1518	C	O4'-C1'-N1	7.92	114.54	108.20
25	BB	1863	G	C5-C6-N1	7.92	115.46	111.50
25	BB	1888	G	O4'-C4'-C3'	7.92	112.44	106.10
25	BB	1947	C	C5-C6-N1	-7.92	117.04	121.00
25	BB	2590	A	P-O3'-C3'	7.92	129.21	119.70
25	BB	2734	A	C5-C6-N6	7.92	130.04	123.70
3	A1	539	A	C5-C6-N1	7.92	121.66	117.70
25	BB	552	U	P-O3'-C3'	7.92	129.20	119.70
3	A1	311	C	N3-C4-N4	-7.92	112.46	118.00
3	A1	1103	C	C5-C4-N4	-7.92	114.66	120.20
25	BB	265	A	C4-C5-C6	-7.92	113.04	117.00
25	BB	808	G	N9-C4-C5	7.92	108.57	105.40
25	BB	875	G	C4-C5-C6	-7.92	114.05	118.80
25	BB	1206	G	N1-C2-N3	7.92	128.65	123.90
25	BB	1224	U	C5-C6-N1	-7.92	118.74	122.70
25	BB	1654	A	C4-C5-N7	-7.92	106.74	110.70
25	BB	2368	C	N3-C2-O2	-7.92	116.36	121.90
25	BB	2470	G	N1-C6-O6	-7.92	115.15	119.90
25	BB	2480	C	C1'-O4'-C4'	-7.92	103.56	109.90
25	BB	2676	C	C1'-O4'-C4'	-7.92	103.56	109.90
25	BB	2834	G	C5-C6-N1	7.92	115.46	111.50
3	A1	523	A	O4'-C1'-N9	7.92	114.53	108.20
3	A1	566	G	C8-N9-C4	-7.92	103.23	106.40
25	BB	1613	G	O4'-C1'-C2'	-7.92	97.88	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2189	U	O4'-C1'-N1	7.92	114.53	108.20
52	B3	169	ARG	NE-CZ-NH1	7.92	124.26	120.30
3	A1	1473	G	C5-C6-N1	7.92	115.46	111.50
25	BB	247	G	C5-C6-N1	7.92	115.46	111.50
25	BB	1468	U	O4'-C1'-N1	7.92	114.53	108.20
25	BB	2479	U	N3-C2-O2	-7.92	116.66	122.20
3	A1	1454	G	O5'-C5'-C4'	-7.91	96.66	111.70
25	BB	55	G	C4-C5-N7	-7.91	107.63	110.80
25	BB	1140	C	N3-C4-C5	7.91	125.06	121.90
25	BB	1269	A	N7-C8-N9	7.91	117.76	113.80
25	BB	1551	A	N9-C4-C5	-7.91	102.63	105.80
25	BB	2101	A	C2-N3-C4	-7.91	106.64	110.60
3	A1	73	C	O4'-C4'-C3'	7.91	112.43	106.10
3	A1	522	C	O4'-C1'-N1	7.91	114.53	108.20
3	A1	1370	G	C5-N7-C8	-7.91	100.34	104.30
25	BB	307	G	C5-N7-C8	-7.91	100.34	104.30
25	BB	2744	G	C4'-C3'-C2'	-7.91	94.69	102.60
1	AE	51	G	N3-C4-N9	7.91	130.75	126.00
3	A1	177	G	C1'-O4'-C4'	-7.91	103.57	109.90
3	A1	773	G	N9-C4-C5	7.91	108.56	105.40
3	A1	904	U	C1'-O4'-C4'	-7.91	103.57	109.90
3	A1	1476	A	N1-C6-N6	-7.91	113.85	118.60
25	BB	233	A	C3'-C2'-C1'	7.91	107.83	101.50
1	AP	32	C	N1-C2-O2	7.91	123.64	118.90
24	BA	25	U	C4-C5-C6	7.91	124.44	119.70
24	BA	68	C	C2-N3-C4	-7.91	115.94	119.90
25	BB	14	A	N1-C2-N3	7.91	133.25	129.30
25	BB	365	U	C2-N3-C4	-7.91	122.25	127.00
25	BB	411	G	N3-C2-N2	-7.91	114.36	119.90
25	BB	806	C	C3'-C2'-C1'	-7.91	95.17	101.50
25	BB	1313	U	O4'-C1'-N1	7.91	114.53	108.20
25	BB	1382	G	C4-C5-C6	-7.91	114.06	118.80
25	BB	1490	A	C5-N7-C8	-7.91	99.95	103.90
25	BB	1748	C	C4-C5-C6	-7.91	113.45	117.40
25	BB	2474	U	N3-C2-O2	-7.91	116.66	122.20
3	A1	199	A	N1-C6-N6	-7.91	113.86	118.60
25	BB	213	A	C8-N9-C4	-7.91	102.64	105.80
25	BB	1671	U	O4'-C1'-N1	7.91	114.53	108.20
25	BB	2800	A	C6-C5-N7	7.91	137.84	132.30
3	A1	845	A	C5-C6-N6	7.91	130.02	123.70
3	A1	987	G	N1-C6-O6	-7.91	115.16	119.90
3	A1	1145	A	N1-C2-N3	-7.91	125.35	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1187	G	N9-C4-C5	7.91	108.56	105.40
3	A1	1456	A	C2-N3-C4	7.91	114.55	110.60
25	BB	210	C	C5'-C4'-C3'	-7.91	103.35	116.00
25	BB	723	C	C5-C6-N1	-7.91	117.05	121.00
25	BB	1379	U	N1-C2-O2	7.91	128.33	122.80
25	BB	1436	G	N1-C6-O6	-7.91	115.16	119.90
25	BB	1639	C	C2-N3-C4	-7.91	115.95	119.90
25	BB	1655	A	C4-C5-C6	-7.91	113.05	117.00
25	BB	2013	A	C5-C6-N1	7.91	121.65	117.70
3	A1	160	A	C4-C5-N7	-7.90	106.75	110.70
3	A1	935	A	C6-C5-N7	7.90	137.83	132.30
3	A1	1086	U	C2-N3-C4	-7.90	122.26	127.00
25	BB	534	U	N3-C4-C5	7.90	119.34	114.60
25	BB	692	C	C3'-C2'-C1'	7.90	107.82	101.50
25	BB	997	G	C1'-O4'-C4'	-7.90	103.58	109.90
25	BB	1719	G	C5-C6-N1	7.90	115.45	111.50
25	BB	2686	G	C2-N3-C4	7.90	115.85	111.90
1	AP	12	U	N1-C2-O2	7.90	128.33	122.80
3	A1	233	C	N1-C2-O2	7.90	123.64	118.90
3	A1	1215	G	N9-C4-C5	7.90	108.56	105.40
18	AS	111	ARG	NH1-CZ-NH2	-7.90	110.71	119.40
25	BB	24	G	C8-N9-C4	-7.90	103.24	106.40
25	BB	1286	A	C5-N7-C8	-7.90	99.95	103.90
25	BB	1342	A	C5-C6-N6	7.90	130.02	123.70
25	BB	2318	G	N9-C4-C5	7.90	108.56	105.40
25	BB	2587	A	N7-C8-N9	7.90	117.75	113.80
25	BB	2667	C	C5-C6-N1	-7.90	117.05	121.00
25	BB	2757	A	O4'-C1'-N9	-7.90	101.88	108.20
3	A1	75	G	N1-C2-N3	7.90	128.64	123.90
3	A1	301	G	C4'-C3'-C2'	-7.90	94.70	102.60
3	A1	330	C	C2-N3-C4	7.90	123.85	119.90
3	A1	333	U	N3-C2-O2	-7.90	116.67	122.20
3	A1	440	C	O4'-C1'-N1	7.90	114.52	108.20
3	A1	780	A	N1-C2-N3	-7.90	125.35	129.30
4	AB	221	ARG	NE-CZ-NH2	-7.90	116.35	120.30
25	BB	212	G	C8-N9-C4	-7.90	103.24	106.40
25	BB	1214	A	C5-N7-C8	-7.90	99.95	103.90
25	BB	1675	C	C6-N1-C2	-7.90	117.14	120.30
25	BB	2135	A	C8-N9-C4	7.90	108.96	105.80
25	BB	2773	C	N3-C2-O2	-7.90	116.37	121.90
3	A1	981	U	N3-C4-C5	-7.90	109.86	114.60
24	BA	81	G	C2-N3-C4	7.90	115.85	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	45	G	N3-C4-N9	7.90	130.74	126.00
25	BB	521	U	C2-N3-C4	-7.90	122.26	127.00
25	BB	880	G	N1-C6-O6	-7.90	115.16	119.90
25	BB	921	C	N3-C4-C5	7.90	125.06	121.90
25	BB	1105	U	C2-N3-C4	-7.90	122.26	127.00
25	BB	1301	A	C4-C5-C6	-7.90	113.05	117.00
25	BB	1991	U	C2-N3-C4	-7.90	122.26	127.00
3	A1	338	A	N1-C2-N3	-7.90	125.35	129.30
3	A1	813	U	N1-C2-N3	7.90	119.64	114.90
3	A1	872	A	C6-N1-C2	-7.90	113.86	118.60
3	A1	1087	G	C5-C6-O6	7.90	133.34	128.60
25	BB	1238	G	C2-N3-C4	7.90	115.85	111.90
25	BB	1634	A	C5'-C4'-O4'	-7.90	99.62	109.10
48	BY	74	GLU	OE1-CD-OE2	-7.90	113.82	123.30
24	BA	67	G	N1-C2-N3	7.90	128.64	123.90
25	BB	2623	G	C8-N9-C1'	7.90	137.26	127.00
25	BB	2647	U	C5'-C4'-O4'	7.90	118.58	109.10
3	A1	898	G	C5-N7-C8	7.89	108.25	104.30
3	A1	980	C	C2-N3-C4	-7.89	115.95	119.90
3	A1	1418	A	C5-C6-N6	7.89	130.02	123.70
3	A1	1507	A	C4'-C3'-C2'	-7.89	94.70	102.60
5	AC	52	ARG	NE-CZ-NH2	7.89	124.25	120.30
17	AR	166	LYS	CB-CG-CD	7.89	132.13	111.60
25	BB	522	A	C5-C6-N6	7.89	130.01	123.70
25	BB	697	G	C8-N9-C4	7.89	109.56	106.40
25	BB	701	G	C6-N1-C2	-7.89	120.36	125.10
25	BB	960	A	C1'-O4'-C4'	-7.89	103.58	109.90
25	BB	1078	U	C2-N3-C4	-7.89	122.26	127.00
25	BB	1320	C	N3-C2-O2	-7.89	116.37	121.90
25	BB	2152	G	N1-C6-O6	-7.89	115.16	119.90
25	BB	2381	A	C5-C6-N1	7.89	121.65	117.70
25	BB	2473	U	N3-C4-O4	7.89	124.93	119.40
3	A1	16	A	C4-C5-N7	7.89	114.65	110.70
3	A1	338	A	C4-C5-C6	-7.89	113.05	117.00
3	A1	861	G	C3'-C2'-C1'	-7.89	95.19	101.50
25	BB	432	A	C5-C6-N6	7.89	130.01	123.70
25	BB	1040	A	C2-N3-C4	7.89	114.55	110.60
25	BB	1356	G	N1-C6-O6	-7.89	115.17	119.90
25	BB	1890	A	N7-C8-N9	-7.89	109.85	113.80
25	BB	2242	G	P-O3'-C3'	7.89	129.17	119.70
3	A1	633	G	N1-C2-N3	7.89	128.63	123.90
3	A1	765	G	N9-C4-C5	7.89	108.56	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	AW	79	ARG	NH1-CZ-NH2	-7.89	110.72	119.40
25	BB	2435	A	C5-N7-C8	-7.89	99.95	103.90
3	A1	77	A	N1-C2-N3	-7.89	125.36	129.30
3	A1	394	G	C6-C5-N7	7.89	135.13	130.40
3	A1	601	G	C5-C6-N1	7.89	115.44	111.50
3	A1	1268	G	C2-N3-C4	7.89	115.84	111.90
3	A1	1410	A	C5-C6-N1	7.89	121.64	117.70
25	BB	108	G	C4'-C3'-C2'	-7.89	94.71	102.60
25	BB	1270	C	N3-C4-C5	7.89	125.06	121.90
25	BB	1929	G	C6-N1-C2	-7.89	120.37	125.10
25	BB	2464	G	N3-C4-N9	-7.89	121.27	126.00
25	BB	2465	C	N3-C2-O2	-7.89	116.38	121.90
1	AE	39	U	C6-N1-C2	-7.89	116.27	121.00
25	BB	59	U	C4-C5-C6	7.89	124.43	119.70
25	BB	1231	U	O4'-C1'-N1	-7.89	101.89	108.20
25	BB	1998	A	C6-N1-C2	-7.89	113.87	118.60
1	AA	3	G	O4'-C1'-N9	7.89	114.51	108.20
1	AA	43	G	C4-C5-N7	7.89	113.95	110.80
3	A1	15	G	C3'-C2'-C1'	-7.89	95.19	101.50
3	A1	103	U	O4'-C1'-N1	7.89	114.51	108.20
3	A1	498	A	C1'-O4'-C4'	-7.89	103.59	109.90
3	A1	514	C	O4'-C1'-N1	7.89	114.51	108.20
3	A1	619	U	N3-C2-O2	-7.89	116.68	122.20
3	A1	1177	G	N3-C4-C5	-7.89	124.66	128.60
25	BB	707	G	C8-N9-C4	-7.89	103.25	106.40
25	BB	854	C	C1'-O4'-C4'	-7.89	103.59	109.90
25	BB	1913	A	C4-C5-C6	-7.89	113.06	117.00
25	BB	2103	C	N3-C4-C5	7.89	125.06	121.90
25	BB	2152	G	N7-C8-N9	7.89	117.04	113.10
3	A1	1039	G	C5-C6-N1	7.88	115.44	111.50
25	BB	737	C	C5-C6-N1	-7.88	117.06	121.00
25	BB	1295	C	C4'-C3'-C2'	-7.88	94.72	102.60
25	BB	1673	G	C5-C6-O6	7.88	133.33	128.60
25	BB	2201	G	N9-C4-C5	7.88	108.55	105.40
25	BB	2571	U	N3-C2-O2	-7.88	116.68	122.20
25	BB	2625	G	C8-N9-C4	-7.88	103.25	106.40
25	BB	2740	A	C4'-C3'-C2'	-7.88	94.72	102.60
3	A1	313	A	C5-C6-N1	7.88	121.64	117.70
3	A1	435	A	O4'-C4'-C3'	7.88	112.41	106.10
3	A1	931	C	C5'-C4'-O4'	7.88	118.56	109.10
25	BB	2547	A	N7-C8-N9	-7.88	109.86	113.80
3	A1	329	A	N9-C1'-C2'	7.88	124.25	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	968	C	C6-N1-C2	-7.88	117.15	120.30
25	BB	1408	G	N1-C6-O6	-7.88	115.17	119.90
25	BB	1845	G	N3-C2-N2	-7.88	114.38	119.90
35	BL	38	TYR	CG-CD1-CE1	-7.88	115.00	121.30
25	BB	25	U	C6-N1-C2	7.88	125.73	121.00
25	BB	723	C	C3'-C2'-C1'	7.88	107.80	101.50
25	BB	759	G	N3-C4-C5	-7.88	124.66	128.60
25	BB	964	C	N3-C4-N4	-7.88	112.48	118.00
25	BB	1494	A	C4'-C3'-C2'	-7.88	94.72	102.60
25	BB	1869	G	C8-N9-C4	-7.88	103.25	106.40
3	A1	160	A	C3'-C2'-C1'	7.88	107.80	101.50
3	A1	659	U	C6-N1-C2	-7.88	116.27	121.00
3	A1	780	A	C3'-C2'-C1'	7.88	107.80	101.50
3	A1	1352	C	C6-N1-C2	-7.88	117.15	120.30
3	A1	1430	A	C8-N9-C4	-7.88	102.65	105.80
25	BB	70	G	O4'-C1'-N9	-7.88	101.90	108.20
25	BB	1454	C	O5'-P-OP2	-7.88	98.61	105.70
25	BB	1583	A	C8-N9-C4	7.88	108.95	105.80
25	BB	2404	U	C5-C4-O4	7.88	130.63	125.90
25	BB	2590	A	O4'-C1'-C2'	-7.88	97.92	105.80
25	BB	2702	G	N9-C4-C5	7.88	108.55	105.40
3	A1	1303	C	C4-C5-C6	7.88	121.34	117.40
24	BA	89	U	N3-C2-O2	-7.88	116.69	122.20
25	BB	400	G	O4'-C1'-N9	7.88	114.50	108.20
25	BB	1372	U	C4'-C3'-C2'	-7.88	94.72	102.60
25	BB	1663	G	C3'-C2'-C1'	-7.88	95.20	101.50
25	BB	2324	U	N1-C2-N3	7.88	119.63	114.90
25	BB	2714	G	N9-C4-C5	-7.88	102.25	105.40
1	AP	57	G	C5-C6-O6	-7.88	123.88	128.60
1	AE	71	G	C2-N3-C4	-7.88	107.96	111.90
3	A1	1394	A	N3-C4-N9	-7.88	121.10	127.40
3	A1	1461	G	C5-N7-C8	-7.88	100.36	104.30
25	BB	63	A	C6-C5-N7	7.88	137.81	132.30
25	BB	2778	A	C5-C6-N6	7.88	130.00	123.70
30	BG	12	ARG	NE-CZ-NH2	-7.88	116.36	120.30
48	BY	33	ARG	CD-NE-CZ	7.88	134.62	123.60
1	AA	44	A	C5-C6-N1	7.87	121.64	117.70
1	AA	74	C	C2-N3-C4	-7.87	115.96	119.90
1	AP	72	C	C4-C5-C6	7.87	121.34	117.40
3	A1	309	A	C8-N9-C4	-7.87	102.65	105.80
3	A1	674	G	C4'-C3'-C2'	-7.87	94.73	102.60
3	A1	815	A	C4-C5-C6	-7.87	113.06	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1060	U	C4-C5-C6	7.87	124.42	119.70
25	BB	161	A	C6-C5-N7	7.87	137.81	132.30
25	BB	2063	C	C5-C6-N1	-7.87	117.06	121.00
25	BB	2285	C	C2'-C3'-O3'	7.87	126.82	109.50
25	BB	2371	G	C8-N9-C1'	7.87	137.24	127.00
25	BB	2555	U	O4'-C1'-N1	7.87	114.50	108.20
3	A1	708	C	C6-N1-C2	-7.87	117.15	120.30
3	A1	1018	G	C4-C5-N7	7.87	113.95	110.80
25	BB	742	A	O4'-C1'-N9	7.87	114.50	108.20
25	BB	1696	G	C6-C5-N7	7.87	135.12	130.40
25	BB	2401	U	C2-N3-C4	-7.87	122.28	127.00
3	A1	750	C	N3-C4-C5	7.87	125.05	121.90
3	A1	1176	A	N1-C2-N3	-7.87	125.36	129.30
3	A1	1206	G	C5'-C4'-O4'	7.87	118.54	109.10
25	BB	768	G	C4'-C3'-C2'	-7.87	94.73	102.60
25	BB	1184	U	C1'-O4'-C4'	-7.87	103.60	109.90
3	A1	447	G	N7-C8-N9	7.87	117.03	113.10
3	A1	551	U	O4'-C4'-C3'	-7.87	96.13	104.00
3	A1	928	G	N3-C2-N2	-7.87	114.39	119.90
24	BA	104	A	C3'-C2'-C1'	7.87	107.80	101.50
25	BB	319	G	O4'-C1'-N9	7.87	114.50	108.20
25	BB	1198	U	C3'-C2'-C1'	7.87	107.80	101.50
25	BB	1278	C	C2-N3-C4	-7.87	115.97	119.90
25	BB	1717	A	C4-C5-N7	7.87	114.63	110.70
25	BB	1948	G	O5'-P-OP2	7.87	120.14	110.70
25	BB	2030	A	C5'-C4'-O4'	7.87	118.54	109.10
25	BB	2068	U	C5-C4-O4	-7.87	121.18	125.90
25	BB	2831	G	N3-C2-N2	-7.87	114.39	119.90
3	A1	1439	G	C6-N1-C2	-7.87	120.38	125.10
25	BB	1115	G	N3-C2-N2	-7.87	114.39	119.90
25	BB	1514	G	C5-C6-N1	7.87	115.43	111.50
25	BB	2296	U	N3-C2-O2	-7.87	116.69	122.20
25	BB	2636	C	C5'-C4'-O4'	7.87	118.54	109.10
25	BB	2798	U	C4-C5-C6	7.87	124.42	119.70
1	AA	24	G	N7-C8-N9	7.87	117.03	113.10
3	A1	187	G	C5-C6-N1	7.87	115.43	111.50
3	A1	190	A	C5-N7-C8	-7.87	99.97	103.90
3	A1	383	A	N3-C4-N9	-7.87	121.11	127.40
3	A1	410	G	N3-C2-N2	-7.87	114.39	119.90
3	A1	444	G	C5'-C4'-C3'	-7.87	103.42	116.00
3	A1	702	A	C5'-C4'-O4'	7.87	118.54	109.10
3	A1	1024	G	N1-C2-N2	-7.87	109.12	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1431	A	C5-C6-N1	7.87	121.63	117.70
25	BB	320	A	C4-C5-C6	-7.87	113.07	117.00
25	BB	1271	G	N3-C4-N9	-7.87	121.28	126.00
25	BB	2151	U	C4'-C3'-C2'	-7.87	94.73	102.60
25	BB	2646	C	N3-C4-N4	-7.87	112.50	118.00
25	BB	2714	G	P-O3'-C3'	7.87	129.14	119.70
25	BB	2889	C	N1-C2-N3	7.87	124.71	119.20
2	AM	19	U	C5-C6-N1	-7.86	118.77	122.70
3	A1	122	G	O4'-C4'-C3'	7.86	112.39	106.10
3	A1	1403	C	N1-C2-O2	7.86	123.62	118.90
25	BB	131	A	C6-C5-N7	7.86	137.81	132.30
25	BB	1239	G	N3-C4-C5	-7.86	124.67	128.60
25	BB	1656	C	C2-N3-C4	-7.86	115.97	119.90
25	BB	1813	G	C5-N7-C8	-7.86	100.37	104.30
25	BB	2407	A	C1'-O4'-C4'	7.86	116.19	109.90
25	BB	2447	G	C5-C6-N1	7.86	115.43	111.50
3	A1	1054	C	N1-C2-N3	7.86	124.70	119.20
3	A1	1483	A	C3'-C2'-C1'	7.86	107.79	101.50
3	A1	1519	A	O4'-C1'-N9	7.86	114.49	108.20
25	BB	1319	C	C4'-C3'-C2'	-7.86	94.74	102.60
25	BB	2270	A	C6-C5-N7	7.86	137.80	132.30
25	BB	2808	G	N7-C8-N9	7.86	117.03	113.10
3	A1	495	A	C6-N1-C2	7.86	123.32	118.60
3	A1	832	G	O5'-C5'-C4'	-7.86	96.77	111.70
3	A1	879	C	C2-N3-C4	-7.86	115.97	119.90
3	A1	1106	G	C5-C6-N1	7.86	115.43	111.50
3	A1	1154	G	O4'-C1'-N9	7.86	114.49	108.20
25	BB	291	G	N3-C4-N9	7.86	130.72	126.00
25	BB	324	A	C4-C5-N7	7.86	114.63	110.70
25	BB	1582	C	C2-N3-C4	-7.86	115.97	119.90
25	BB	1977	A	C6-C5-N7	7.86	137.80	132.30
25	BB	2030	A	C1'-O4'-C4'	-7.86	103.61	109.90
25	BB	2643	G	N9-C4-C5	7.86	108.54	105.40
3	A1	314	C	N3-C2-O2	-7.86	116.40	121.90
25	BB	722	A	N9-C1'-C2'	-7.86	103.36	112.00
3	A1	22	G	N3-C4-N9	7.86	130.72	126.00
3	A1	436	C	C4'-C3'-C2'	-7.86	94.74	102.60
3	A1	462	G	N3-C4-C5	-7.86	124.67	128.60
3	A1	812	G	O4'-C1'-C2'	-7.86	97.94	105.80
3	A1	993	G	C4-C5-N7	7.86	113.94	110.80
3	A1	1519	A	N1-C2-N3	-7.86	125.37	129.30
25	BB	1282	U	N3-C4-C5	-7.86	109.89	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1977	A	C5-C6-N6	7.86	129.99	123.70
25	BB	2822	G	N3-C2-N2	-7.86	114.40	119.90
25	BB	2856	A	C3'-C2'-C1'	-7.86	95.21	101.50
3	A1	968	A	C8-N9-C4	7.86	108.94	105.80
3	A1	1483	A	C6-N1-C2	-7.86	113.89	118.60
25	BB	21	A	C6-C5-N7	7.86	137.80	132.30
25	BB	570	G	N3-C2-N2	-7.86	114.40	119.90
25	BB	1424	G	C8-N9-C4	-7.86	103.26	106.40
25	BB	1972	G	O4'-C1'-C2'	-7.86	97.94	105.80
25	BB	2677	G	C6-N1-C2	-7.86	120.39	125.10
25	BB	2818	U	C6-N1-C1'	7.86	132.20	121.20
1	AA	14	A	C5-C6-N6	7.85	129.98	123.70
25	BB	121	G	C4'-C3'-C2'	-7.85	94.75	102.60
25	BB	1270	C	C2-N1-C1'	7.85	127.44	118.80
25	BB	1427	A	N1-C2-N3	-7.85	125.37	129.30
25	BB	1671	U	C5-C4-O4	-7.85	121.19	125.90
1	AP	72	C	C2-N3-C4	-7.85	115.97	119.90
3	A1	1400	C	C5-C6-N1	-7.85	117.07	121.00
25	BB	2320	U	C3'-C2'-C1'	7.85	107.78	101.50
25	BB	2812	G	N3-C2-N2	-7.85	114.40	119.90
25	BB	2851	A	C5-C6-N1	7.85	121.63	117.70
30	BG	69	ARG	NE-CZ-NH2	7.85	124.23	120.30
3	A1	60	A	O4'-C1'-N9	7.85	114.48	108.20
3	A1	1151	A	N1-C6-N6	-7.85	113.89	118.60
25	BB	1294	U	C5-C6-N1	-7.85	118.77	122.70
25	BB	2558	C	O4'-C4'-C3'	7.85	112.38	106.10
3	A1	200	G	N1-C6-O6	-7.85	115.19	119.90
21	AV	79	ARG	NE-CZ-NH1	7.85	124.22	120.30
25	BB	858	G	C1'-O4'-C4'	-7.85	103.62	109.90
25	BB	1291	C	O4'-C1'-N1	7.85	114.48	108.20
25	BB	1650	A	C8-N9-C4	-7.85	102.66	105.80
3	A1	120	A	N3-C4-N9	-7.85	121.12	127.40
3	A1	586	C	O4'-C1'-N1	7.85	114.48	108.20
3	A1	783	C	C1'-O4'-C4'	-7.85	103.62	109.90
3	A1	1072	G	C8-N9-C4	-7.85	103.26	106.40
24	BA	83	G	N3-C2-N2	-7.85	114.41	119.90
25	BB	450	G	C5-C6-O6	7.85	133.31	128.60
25	BB	559	G	C5-N7-C8	-7.85	100.38	104.30
25	BB	627	A	C4'-C3'-C2'	-7.85	94.75	102.60
25	BB	816	C	C5'-C4'-C3'	-7.85	103.45	116.00
25	BB	1450	G	C4'-C3'-O3'	7.85	128.70	113.00
25	BB	1985	C	C5-C6-N1	-7.85	117.08	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2026	U	C3'-C2'-C1'	7.85	107.78	101.50
25	BB	2027	G	C6-C5-N7	7.85	135.11	130.40
26	BC	21	ARG	CD-NE-CZ	7.85	134.59	123.60
2	AM	16	U	O4'-C1'-N1	7.85	114.48	108.20
3	A1	771	G	C5-C6-O6	7.85	133.31	128.60
25	BB	466	A	C4-C5-C6	-7.85	113.08	117.00
25	BB	742	A	C5-N7-C8	7.85	107.82	103.90
25	BB	2095	A	N1-C2-N3	-7.85	125.38	129.30
1	AA	33	U	C6-N1-C2	-7.84	116.29	121.00
3	A1	125	U	N1-C2-N3	7.84	119.61	114.90
3	A1	447	G	C4'-C3'-C2'	7.84	110.44	102.60
3	A1	730	G	C5-C6-N1	7.84	115.42	111.50
3	A1	1359	C	C2-N3-C4	-7.84	115.98	119.90
25	BB	729	G	O4'-C4'-C3'	7.84	112.38	106.10
25	BB	1293	C	N3-C4-C5	7.84	125.04	121.90
25	BB	1624	U	N1-C2-O2	7.84	128.29	122.80
25	BB	2508	G	C6-N1-C2	-7.84	120.39	125.10
25	BB	2642	G	C5'-C4'-O4'	7.84	118.51	109.10
1	AE	34	G	C5-C6-N1	7.84	115.42	111.50
3	A1	212	G	N1-C6-O6	-7.84	115.19	119.90
3	A1	503	C	N1-C2-O2	7.84	123.61	118.90
3	A1	960	U	C5-C4-O4	-7.84	121.19	125.90
3	A1	1365	G	N9-C4-C5	7.84	108.54	105.40
3	A1	1479	C	C2-N3-C4	-7.84	115.98	119.90
25	BB	915	C	C4-C5-C6	-7.84	113.48	117.40
25	BB	997	G	N9-C4-C5	7.84	108.54	105.40
25	BB	2726	A	C3'-C2'-C1'	7.84	107.78	101.50
3	A1	732	C	N1-C2-O2	7.84	123.61	118.90
3	A1	788	U	N1-C2-N3	7.84	119.61	114.90
3	A1	1251	A	C8-N9-C4	-7.84	102.66	105.80
25	BB	708	G	C6-N1-C2	-7.84	120.39	125.10
25	BB	789	A	N1-C2-N3	-7.84	125.38	129.30
25	BB	1331	G	N7-C8-N9	7.84	117.02	113.10
25	BB	1407	G	N1-C2-N2	-7.84	109.14	116.20
25	BB	1793	C	O4'-C1'-C2'	7.84	114.66	107.60
25	BB	2000	C	N1-C1'-C2'	-7.84	103.38	112.00
25	BB	2157	G	O4'-C1'-N9	7.84	114.47	108.20
25	BB	2444	G	C6-N1-C2	-7.84	120.40	125.10
25	BB	2631	G	C5-C6-O6	7.84	133.31	128.60
1	AP	11	C	N3-C4-N4	-7.84	112.51	118.00
3	A1	353	A	N9-C4-C5	-7.84	102.66	105.80
3	A1	831	A	C5'-C4'-O4'	7.84	118.51	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	7	G	C5-C6-O6	7.84	133.30	128.60
25	BB	241	A	O4'-C1'-N9	7.84	114.47	108.20
25	BB	863	A	O4'-C1'-N9	7.84	114.47	108.20
25	BB	1862	G	C5-C6-N1	7.84	115.42	111.50
25	BB	2200	C	N3-C4-C5	7.84	125.04	121.90
25	BB	2324	U	C5-C4-O4	-7.84	121.20	125.90
3	A1	426	U	N3-C4-O4	7.84	124.89	119.40
3	A1	1525	G	N3-C4-C5	-7.84	124.68	128.60
25	BB	628	G	C4-C5-N7	7.84	113.94	110.80
25	BB	671	C	N1-C2-O2	7.84	123.60	118.90
25	BB	1649	G	C5-C6-O6	7.84	133.30	128.60
25	BB	2006	C	C5-C6-N1	-7.84	117.08	121.00
1	AA	67	A	C4-C5-C6	-7.84	113.08	117.00
1	AE	72	C	N3-C4-C5	7.84	125.03	121.90
3	A1	126	G	C8-N9-C4	-7.84	103.27	106.40
3	A1	220	G	N1-C6-O6	-7.84	115.20	119.90
3	A1	338	A	C5-C6-N6	7.84	129.97	123.70
3	A1	386	C	C6-N1-C2	-7.84	117.17	120.30
25	BB	208	C	O4'-C1'-N1	7.84	114.47	108.20
25	BB	970	U	C2-N3-C4	-7.84	122.30	127.00
25	BB	1095	A	C5-C6-N6	7.84	129.97	123.70
25	BB	1570	A	O4'-C4'-C3'	7.84	112.37	106.10
25	BB	2111	U	C5-C6-N1	-7.84	118.78	122.70
25	BB	2205	A	N9-C4-C5	7.84	108.93	105.80
25	BB	2752	C	N3-C2-O2	-7.84	116.42	121.90
3	A1	693	G	C5-C6-N1	7.83	115.42	111.50
19	AT	28	ALA	CB-CA-C	7.83	121.85	110.10
24	BA	45	A	C4-C5-C6	-7.83	113.08	117.00
25	BB	188	G	O4'-C1'-N9	7.83	114.47	108.20
25	BB	1076	C	N3-C2-O2	-7.83	116.42	121.90
25	BB	1613	G	C5-C6-O6	7.83	133.30	128.60
25	BB	469	G	C4-C5-C6	-7.83	114.10	118.80
25	BB	1115	G	N9-C4-C5	-7.83	102.27	105.40
25	BB	1127	A	N9-C4-C5	-7.83	102.67	105.80
25	BB	1131	G	N9-C4-C5	7.83	108.53	105.40
25	BB	1603	A	C2-N3-C4	7.83	114.52	110.60
25	BB	2568	U	P-O3'-C3'	7.83	129.10	119.70
25	BB	2717	C	C4'-C3'-C2'	-7.83	94.77	102.60
3	A1	1042	A	C2-N3-C4	7.83	114.52	110.60
3	A1	1061	G	C4-C5-N7	-7.83	107.67	110.80
3	A1	1248	A	C6-N1-C2	-7.83	113.90	118.60
3	A1	1286	U	N1-C2-O2	7.83	128.28	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	35	G	C8-N9-C4	-7.83	103.27	106.40
25	BB	221	A	O4'-C1'-C2'	-7.83	97.97	105.80
25	BB	601	C	N3-C2-O2	-7.83	116.42	121.90
25	BB	819	A	C1'-O4'-C4'	-7.83	103.64	109.90
25	BB	1096	A	C6-C5-N7	7.83	137.78	132.30
25	BB	1678	A	C8-N9-C4	-7.83	102.67	105.80
25	BB	2342	C	C2-N3-C4	-7.83	115.98	119.90
25	BB	2758	A	C8-N9-C4	-7.83	102.67	105.80
25	BB	2894	G	C5-C6-N1	7.83	115.42	111.50
3	A1	220	G	N1-C2-N3	7.83	128.60	123.90
3	A1	337	G	C5-C6-N1	7.83	115.42	111.50
6	AD	85	ARG	NE-CZ-NH1	7.83	124.22	120.30
25	BB	2731	G	C4-C5-N7	7.83	113.93	110.80
3	A1	605	U	O4'-C1'-N1	-7.83	101.94	108.20
3	A1	676	A	C5-C6-N6	7.83	129.96	123.70
3	A1	933	G	C6-N1-C2	-7.83	120.40	125.10
3	A1	1024	G	C4-C5-N7	7.83	113.93	110.80
3	A1	1099	G	C8-N9-C4	-7.83	103.27	106.40
24	BA	10	G	C4-C5-C6	-7.83	114.10	118.80
24	BA	70	C	O4'-C4'-C3'	7.83	112.36	106.10
25	BB	1053	C	C6-N1-C2	-7.83	117.17	120.30
25	BB	1116	G	C5'-C4'-C3'	-7.83	103.47	116.00
25	BB	1790	C	N1-C2-O2	7.83	123.60	118.90
25	BB	2537	U	C5'-C4'-O4'	7.83	118.49	109.10
1	AP	12	U	C6-N1-C2	-7.83	116.30	121.00
24	BA	66	A	C3'-C2'-C1'	7.83	107.76	101.50
25	BB	1792	G	C4-C5-C6	-7.83	114.10	118.80
25	BB	1792	G	C5-N7-C8	-7.83	100.39	104.30
25	BB	2641	G	C5-C6-N1	7.83	115.41	111.50
32	BI	15	ASP	CB-CG-OD1	7.83	125.34	118.30
3	A1	260	G	C8-N9-C4	-7.83	103.27	106.40
3	A1	1001	C	N1-C2-O2	7.83	123.60	118.90
25	BB	475	C	N3-C2-O2	-7.83	116.42	121.90
25	BB	827	U	C3'-C2'-C1'	7.83	107.76	101.50
25	BB	1135	C	C3'-C2'-C1'	7.83	107.76	101.50
25	BB	1212	G	C5-C6-N1	7.83	115.41	111.50
25	BB	1803	A	C5-N7-C8	-7.83	99.99	103.90
3	A1	949	A	C5-N7-C8	-7.82	99.99	103.90
3	A1	1081	A	C5-C6-N1	7.82	121.61	117.70
3	A1	1098	C	C4-C5-C6	-7.82	113.49	117.40
25	BB	601	C	N3-C4-N4	-7.82	112.52	118.00
25	BB	655	A	C8-N9-C4	7.82	108.93	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1126	A	C5-C6-N1	7.82	121.61	117.70
25	BB	2018	G	O4'-C1'-N9	7.82	114.46	108.20
25	BB	2328	A	N1-C6-N6	-7.82	113.91	118.60
25	BB	2395	C	N1-C2-N3	7.82	124.68	119.20
25	BB	2872	A	N1-C6-N6	-7.82	113.91	118.60
7	AF	70	ARG	NH1-CZ-NH2	-7.82	110.80	119.40
25	BB	177	G	C4-C5-C6	-7.82	114.11	118.80
25	BB	335	C	N1-C2-O2	7.82	123.59	118.90
25	BB	808	G	C5-C6-N1	7.82	115.41	111.50
25	BB	1382	G	N1-C6-O6	-7.82	115.21	119.90
25	BB	2628	C	C5-C6-N1	-7.82	117.09	121.00
25	BB	2735	G	N3-C4-C5	-7.82	124.69	128.60
25	BB	2775	G	C8-N9-C4	-7.82	103.27	106.40
3	A1	441	A	C2'-C3'-O3'	7.82	126.70	109.50
25	BB	537	G	C4-C5-N7	-7.82	107.67	110.80
25	BB	1419	A	C2-N3-C4	-7.82	106.69	110.60
25	BB	2490	G	N3-C2-N2	7.82	125.37	119.90
25	BB	2707	U	N3-C2-O2	-7.82	116.73	122.20
25	BB	415	A	C6-C5-N7	7.82	137.77	132.30
25	BB	658	U	C1'-O4'-C4'	-7.82	103.64	109.90
25	BB	1358	G	N1-C2-N3	7.82	128.59	123.90
25	BB	2870	C	C6-N1-C2	-7.82	117.17	120.30
1	AP	46	G	C3'-C2'-C1'	-7.82	95.25	101.50
3	A1	229	U	C4-C5-C6	7.82	124.39	119.70
3	A1	788	U	C2-N3-C4	-7.82	122.31	127.00
3	A1	875	U	C1'-O4'-C4'	-7.82	103.64	109.90
3	A1	912	C	N1-C2-O2	7.82	123.59	118.90
3	A1	914	A	C1'-O4'-C4'	-7.82	103.65	109.90
25	BB	110	G	N9-C4-C5	7.82	108.53	105.40
25	BB	1712	U	N1-C2-N3	7.82	119.59	114.90
25	BB	2667	C	C4-C5-C6	7.82	121.31	117.40
25	BB	2719	G	C8-N9-C4	-7.82	103.27	106.40
3	A1	94	G	C8-N9-C4	7.82	109.53	106.40
3	A1	1479	C	O4'-C4'-C3'	-7.82	96.19	104.00
25	BB	330	A	O4'-C1'-N9	7.82	114.45	108.20
25	BB	388	G	O5'-P-OP1	-7.82	98.67	105.70
25	BB	1227	G	C5-N7-C8	-7.82	100.39	104.30
25	BB	1367	A	C6-C5-N7	7.82	137.77	132.30
25	BB	1804	C	N3-C4-N4	-7.82	112.53	118.00
3	A1	461	A	C4-C5-C6	-7.81	113.09	117.00
3	A1	851	G	C5-C6-O6	7.81	133.29	128.60
25	BB	498	G	N3-C2-N2	-7.81	114.43	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1822	C	N3-C4-C5	7.81	125.03	121.90
25	BB	2165	C	N1-C2-N3	7.81	124.67	119.20
25	BB	2568	U	C5-C6-N1	-7.81	118.79	122.70
3	A1	276	G	N1-C2-N3	7.81	128.59	123.90
3	A1	473	U	C1'-O4'-C4'	-7.81	103.65	109.90
3	A1	559	A	N1-C2-N3	-7.81	125.39	129.30
3	A1	1022	A	C4-C5-C6	-7.81	113.09	117.00
3	A1	1445	U	O3'-P-O5'	7.81	118.84	104.00
25	BB	1867	G	N3-C2-N2	-7.81	114.43	119.90
25	BB	2535	G	N1-C2-N2	-7.81	109.17	116.20
25	BB	2786	U	C4'-C3'-C2'	-7.81	94.79	102.60
3	A1	480	U	O4'-C4'-C3'	7.81	112.35	106.10
3	A1	1383	C	N3-C4-N4	-7.81	112.53	118.00
25	BB	268	C	N3-C4-C5	7.81	125.02	121.90
25	BB	1247	A	C4-C5-C6	-7.81	113.09	117.00
25	BB	1288	G	N3-C4-C5	-7.81	124.69	128.60
25	BB	1560	G	O4'-C1'-N9	7.81	114.45	108.20
3	A1	861	G	N9-C1'-C2'	7.81	124.15	114.00
3	A1	1088	G	N1-C2-N2	-7.81	109.17	116.20
3	A1	1334	G	N1-C6-O6	-7.81	115.21	119.90
25	BB	2367	G	N9-C4-C5	7.81	108.52	105.40
25	BB	2506	U	O4'-C1'-N1	7.81	114.45	108.20
25	BB	2744	G	O4'-C4'-C3'	7.81	112.35	106.10
25	BB	2771	C	N3-C2-O2	-7.81	116.43	121.90
3	A1	1430	A	C6-C5-N7	7.81	137.76	132.30
25	BB	376	G	C6-N1-C2	-7.81	120.42	125.10
25	BB	585	G	C5-C6-N1	7.81	115.40	111.50
25	BB	866	A	N9-C4-C5	7.81	108.92	105.80
25	BB	999	U	N3-C2-O2	-7.81	116.73	122.20
25	BB	1048	A	C5-C6-N1	7.81	121.60	117.70
25	BB	1319	C	N3-C4-N4	-7.81	112.53	118.00
25	BB	1321	A	C4'-C3'-C2'	-7.81	94.79	102.60
25	BB	1436	G	N9-C4-C5	7.81	108.52	105.40
25	BB	1495	A	C5'-C4'-O4'	7.81	118.47	109.10
25	BB	1775	U	O4'-C1'-C2'	-7.81	97.99	105.80
25	BB	2341	G	C5-C6-N1	7.81	115.40	111.50
46	BW	7	ARG	NH1-CZ-NH2	-7.81	110.81	119.40
55	B6	9	GLU	OE1-CD-OE2	-7.81	113.93	123.30
25	BB	2811	G	N7-C8-N9	7.81	117.00	113.10
3	A1	1446	A	C6-C5-N7	7.80	137.76	132.30
25	BB	330	A	N7-C8-N9	7.80	117.70	113.80
25	BB	1316	U	C1'-O4'-C4'	-7.80	103.66	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1773	A	C2-N3-C4	7.80	114.50	110.60
25	BB	2065	C	C2-N3-C4	-7.80	116.00	119.90
25	BB	2465	C	N1-C2-O2	7.80	123.58	118.90
25	BB	2691	C	C5-C4-N4	7.80	125.66	120.20
25	BB	2769	U	C5-C4-O4	7.80	130.58	125.90
3	A1	256	U	P-O3'-C3'	7.80	129.06	119.70
3	A1	620	C	C3'-C2'-C1'	7.80	107.74	101.50
25	BB	1117	C	C4'-C3'-C2'	-7.80	94.80	102.60
25	BB	2654	A	N9-C4-C5	7.80	108.92	105.80
3	A1	411	A	C5-C6-N6	7.80	129.94	123.70
3	A1	978	A	C8-N9-C4	-7.80	102.68	105.80
3	A1	1105	A	N7-C8-N9	7.80	117.70	113.80
3	A1	1150	A	C3'-C2'-C1'	7.80	107.74	101.50
25	BB	172	A	O4'-C1'-N9	-7.80	101.96	108.20
25	BB	922	C	O4'-C1'-N1	7.80	114.44	108.20
25	BB	1065	U	C6-N1-C2	-7.80	116.32	121.00
25	BB	1139	G	N7-C8-N9	7.80	117.00	113.10
25	BB	1863	G	N3-C2-N2	-7.80	114.44	119.90
25	BB	2014	A	O4'-C1'-N9	7.80	114.44	108.20
25	BB	2108	A	C5'-C4'-O4'	7.80	118.46	109.10
25	BB	2706	A	N3-C4-C5	-7.80	121.34	126.80
25	BB	2890	G	C1'-O4'-C4'	7.80	116.14	109.90
32	BI	100	ARG	NE-CZ-NH2	7.80	124.20	120.30
3	A1	357	G	C2-N3-C4	7.80	115.80	111.90
3	A1	828	U	C5-C4-O4	-7.80	121.22	125.90
3	A1	984	C	N3-C4-N4	-7.80	112.54	118.00
3	A1	1031	C	C2-N3-C4	-7.80	116.00	119.90
3	A1	1084	G	C5-N7-C8	-7.80	100.40	104.30
4	AB	49	PHE	CB-CG-CD2	-7.80	115.34	120.80
25	BB	52	A	C6-C5-N7	7.80	137.76	132.30
25	BB	145	C	N3-C2-O2	-7.80	116.44	121.90
25	BB	483	A	N1-C2-N3	-7.80	125.40	129.30
25	BB	734	A	N1-C6-N6	-7.80	113.92	118.60
25	BB	914	G	O4'-C1'-N9	7.80	114.44	108.20
25	BB	1373	A	C8-N9-C4	7.80	108.92	105.80
25	BB	1823	G	N1-C6-O6	-7.80	115.22	119.90
25	BB	1885	A	C4-C5-C6	-7.80	113.10	117.00
1	AP	41	U	C1'-O4'-C4'	-7.80	103.66	109.90
3	A1	528	C	C3'-C2'-C1'	7.80	107.74	101.50
3	A1	886	G	C5'-C4'-O4'	7.80	118.46	109.10
25	BB	1595	C	N3-C4-N4	-7.80	112.54	118.00
25	BB	1676	A	N1-C6-N6	-7.80	113.92	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AE	25	C	O4'-C1'-N1	7.80	114.44	108.20
3	A1	545	C	N3-C4-N4	-7.80	112.54	118.00
3	A1	1093	A	C5-C6-N6	7.80	129.94	123.70
3	A1	1422	G	C4-C5-N7	7.80	113.92	110.80
3	A1	1495	U	N3-C2-O2	-7.80	116.74	122.20
25	BB	396	G	C5-C6-N1	7.80	115.40	111.50
25	BB	1221	C	N1-C2-N3	7.80	124.66	119.20
25	BB	1579	A	C4'-C3'-C2'	-7.80	94.80	102.60
25	BB	1842	G	N1-C2-N3	7.80	128.58	123.90
25	BB	1859	U	N3-C4-C5	-7.80	109.92	114.60
25	BB	2726	A	C4-C5-C6	-7.80	113.10	117.00
25	BB	2781	A	O4'-C1'-N9	7.80	114.44	108.20
25	BB	2837	A	C3'-C2'-C1'	7.80	107.74	101.50
3	A1	926	G	C2-N3-C4	7.79	115.80	111.90
25	BB	53	A	C5-C6-N6	7.79	129.94	123.70
2	AM	10	U	O5'-P-OP2	-7.79	98.69	105.70
3	A1	167	A	O4'-C4'-C3'	7.79	112.33	106.10
3	A1	866	C	O4'-C1'-N1	7.79	114.44	108.20
3	A1	879	C	N3-C4-N4	-7.79	112.54	118.00
25	BB	524	G	C2-N3-C4	7.79	115.80	111.90
25	BB	619	G	O4'-C4'-C3'	7.79	112.33	106.10
25	BB	645	C	C5-C4-N4	-7.79	114.75	120.20
25	BB	836	G	C6-C5-N7	7.79	135.08	130.40
25	BB	987	C	N1-C2-O2	7.79	123.58	118.90
25	BB	1063	G	C4'-C3'-C2'	-7.79	94.81	102.60
25	BB	1885	A	O4'-C1'-C2'	7.79	114.61	107.60
25	BB	1982	U	C5-C6-N1	-7.79	118.80	122.70
25	BB	2098	U	O4'-C1'-N1	7.79	114.44	108.20
25	BB	2614	A	C4-C5-C6	-7.79	113.10	117.00
25	BB	2673	G	N1-C6-O6	-7.79	115.22	119.90
3	A1	1110	A	C4-C5-N7	-7.79	106.80	110.70
25	BB	800	A	C6-C5-N7	7.79	137.75	132.30
25	BB	1541	C	N3-C4-N4	-7.79	112.55	118.00
25	BB	2495	G	C3'-C2'-C1'	7.79	107.73	101.50
3	A1	324	G	N3-C4-N9	7.79	130.67	126.00
3	A1	1273	C	N3-C2-O2	-7.79	116.45	121.90
25	BB	788	A	C8-N9-C4	-7.79	102.68	105.80
25	BB	888	C	P-O3'-C3'	7.79	129.05	119.70
25	BB	972	A	C8-N9-C4	-7.79	102.68	105.80
3	A1	1379	G	N9-C4-C5	7.79	108.52	105.40
3	A1	1399	C	N1-C2-O2	7.79	123.57	118.90
25	BB	524	G	C4'-C3'-C2'	-7.79	94.81	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	597	G	C3'-C2'-C1'	7.79	107.73	101.50
25	BB	623	C	C5-C4-N4	7.79	125.65	120.20
25	BB	1500	G	C1'-O4'-C4'	-7.79	103.67	109.90
25	BB	1540	G	N1-C6-O6	-7.79	115.23	119.90
25	BB	1594	U	O4'-C1'-N1	7.79	114.43	108.20
25	BB	2055	C	C5-C6-N1	-7.79	117.11	121.00
25	BB	2720	U	C3'-C2'-C1'	-7.79	95.27	101.50
3	A1	622	A	N3-C4-C5	-7.79	121.35	126.80
3	A1	1033	G	N9-C4-C5	7.79	108.52	105.40
3	A1	1312	G	C4-C5-N7	-7.79	107.69	110.80
3	A1	1472	U	C4-C5-C6	7.79	124.37	119.70
25	BB	538	A	C5-C6-N1	7.79	121.59	117.70
25	BB	868	U	C4-C5-C6	7.79	124.37	119.70
25	BB	2318	G	C5-C6-O6	-7.79	123.93	128.60
1	AE	28	C	C6-N1-C2	-7.79	117.19	120.30
3	A1	1035	A	C4-C5-C6	-7.79	113.11	117.00
3	A1	1178	G	N9-C4-C5	7.79	108.51	105.40
3	A1	1479	C	N1-C2-N3	7.79	124.65	119.20
25	BB	331	C	C3'-C2'-C1'	-7.79	95.27	101.50
25	BB	1204	A	N1-C6-N6	-7.79	113.93	118.60
25	BB	1669	A	C8-N9-C4	-7.79	102.69	105.80
25	BB	2734	A	N1-C2-N3	-7.79	125.41	129.30
3	A1	848	C	C5'-C4'-O4'	7.78	118.44	109.10
3	A1	1110	A	O4'-C4'-C3'	7.78	112.33	106.10
8	AG	19	TYR	CG-CD1-CE1	-7.78	115.07	121.30
25	BB	121	G	C2-N3-C4	7.78	115.79	111.90
25	BB	361	G	C5-C6-N1	7.78	115.39	111.50
25	BB	369	U	N1-C2-N3	7.78	119.57	114.90
25	BB	401	A	C6-C5-N7	7.78	137.75	132.30
25	BB	544	C	N3-C4-C5	7.78	125.01	121.90
25	BB	959	A	N9-C4-C5	7.78	108.91	105.80
25	BB	2163	A	C6-N1-C2	-7.78	113.93	118.60
25	BB	2886	A	C4-C5-C6	-7.78	113.11	117.00
3	A1	8	A	C3'-C2'-C1'	-7.78	95.28	101.50
3	A1	510	A	C5-C6-N1	7.78	121.59	117.70
3	A1	548	G	C6-N1-C2	-7.78	120.43	125.10
17	AR	127	ARG	CD-NE-CZ	7.78	134.50	123.60
25	BB	110	G	N1-C6-O6	-7.78	115.23	119.90
25	BB	1359	A	C2-N3-C4	7.78	114.49	110.60
25	BB	1480	C	N3-C4-N4	-7.78	112.55	118.00
25	BB	1698	A	C4-C5-C6	-7.78	113.11	117.00
25	BB	1910	G	C5-C6-N1	7.78	115.39	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2169	A	C2'-C3'-O3'	7.78	126.62	109.50
25	BB	2563	U	N3-C2-O2	-7.78	116.75	122.20
25	BB	2853	C	C4-C5-C6	7.78	121.29	117.40
3	A1	40	C	N3-C4-C5	7.78	125.01	121.90
3	A1	809	G	N1-C6-O6	-7.78	115.23	119.90
3	A1	1186	G	C5-N7-C8	-7.78	100.41	104.30
3	A1	1522	U	N3-C2-O2	-7.78	116.75	122.20
25	BB	356	G	C4-C5-C6	-7.78	114.13	118.80
25	BB	722	A	C5-C6-N6	7.78	129.92	123.70
25	BB	1378	A	C1'-O4'-C4'	7.78	116.12	109.90
25	BB	1401	G	N1-C2-N2	-7.78	109.20	116.20
25	BB	1584	U	N1-C2-N3	7.78	119.57	114.90
25	BB	2455	G	N3-C4-C5	-7.78	124.71	128.60
25	BB	2672	U	C4-C5-C6	7.78	124.37	119.70
3	A1	8	A	C4-C5-C6	-7.78	113.11	117.00
3	A1	605	U	C5'-C4'-O4'	7.78	118.43	109.10
3	A1	836	G	C8-N9-C4	-7.78	103.29	106.40
3	A1	994	A	C4-C5-N7	7.78	114.59	110.70
25	BB	294	A	C6-C5-N7	7.78	137.75	132.30
1	AP	2	C	C6-N1-C2	-7.78	117.19	120.30
3	A1	725	G	N3-C4-C5	-7.78	124.71	128.60
3	A1	1174	G	C5-C6-N1	7.78	115.39	111.50
3	A1	1346	A	N1-C2-N3	-7.78	125.41	129.30
24	BA	116	G	N7-C8-N9	-7.78	109.21	113.10
25	BB	845	A	N1-C2-N3	-7.78	125.41	129.30
25	BB	1735	A	N3-C4-C5	-7.78	121.36	126.80
25	BB	1739	A	C4-C5-C6	-7.78	113.11	117.00
25	BB	2136	G	N1-C2-N3	7.78	128.57	123.90
25	BB	2315	G	N3-C4-C5	-7.78	124.71	128.60
1	AA	50	U	C5'-C4'-O4'	7.78	118.43	109.10
3	A1	5	U	C4-C5-C6	7.78	124.36	119.70
3	A1	1061	G	C2-N3-C4	7.78	115.79	111.90
25	BB	719	C	O4'-C4'-C3'	7.78	112.32	106.10
25	BB	2270	A	C8-N9-C4	7.78	108.91	105.80
3	A1	1288	A	C2-N3-C4	7.77	114.49	110.60
25	BB	413	C	C1'-O4'-C4'	-7.77	103.68	109.90
25	BB	440	C	N1-C2-O2	7.77	123.56	118.90
25	BB	1394	U	N1-C2-O2	7.77	128.24	122.80
25	BB	2544	G	N3-C2-N2	-7.77	114.46	119.90
53	B4	29	PHE	CB-CG-CD1	-7.77	115.36	120.80
3	A1	894	G	C4-C5-N7	-7.77	107.69	110.80
3	A1	1090	U	C5'-C4'-O4'	7.77	118.43	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1099	G	C5'-C4'-O4'	7.77	118.43	109.10
10	AI	25	ARG	NE-CZ-NH1	7.77	124.19	120.30
25	BB	58	G	C5'-C4'-O4'	7.77	118.43	109.10
25	BB	898	C	N3-C4-C5	7.77	125.01	121.90
25	BB	2111	U	N3-C4-O4	-7.77	113.96	119.40
25	BB	2364	C	C1'-O4'-C4'	-7.77	103.68	109.90
25	BB	2632	A	N7-C8-N9	-7.77	109.91	113.80
3	A1	62	U	N1-C2-O2	7.77	128.24	122.80
3	A1	1196	A	O4'-C1'-N9	-7.77	101.98	108.20
24	BA	91	C	C5-C6-N1	-7.77	117.11	121.00
25	BB	1434	A	C5-C6-N1	7.77	121.58	117.70
25	BB	1965	C	C3'-C2'-C1'	7.77	107.72	101.50
2	AM	20	U	C4'-C3'-C2'	-7.77	94.83	102.60
3	A1	211	G	N9-C1'-C2'	-7.77	103.45	112.00
3	A1	836	G	C6-N1-C2	-7.77	120.44	125.10
3	A1	861	G	C6-C5-N7	7.77	135.06	130.40
3	A1	1082	A	C6-N1-C2	-7.77	113.94	118.60
3	A1	1083	U	C4-C5-C6	-7.77	115.04	119.70
3	A1	1120	C	C4-C5-C6	-7.77	113.52	117.40
3	A1	1198	G	N3-C4-C5	-7.77	124.72	128.60
3	A1	1330	U	N3-C2-O2	-7.77	116.76	122.20
3	A1	1414	U	C4-C5-C6	7.77	124.36	119.70
25	BB	468	G	C6-C5-N7	7.77	135.06	130.40
25	BB	1099	G	N1-C2-N3	7.77	128.56	123.90
25	BB	1831	G	C6-N1-C2	-7.77	120.44	125.10
25	BB	2251	G	C6-C5-N7	7.77	135.06	130.40
25	BB	2301	C	N1-C2-N3	7.77	124.64	119.20
27	BD	98	ARG	NE-CZ-NH1	7.77	124.19	120.30
3	A1	945	G	N9-C1'-C2'	-7.77	103.45	112.00
3	A1	1180	A	N1-C2-N3	-7.77	125.42	129.30
25	BB	149	A	C4'-C3'-C2'	-7.77	94.83	102.60
25	BB	422	A	N1-C2-N3	-7.77	125.42	129.30
25	BB	895	U	C1'-O4'-C4'	-7.77	103.69	109.90
25	BB	1421	G	C4-C5-C6	-7.77	114.14	118.80
25	BB	1576	U	C4-C5-C6	7.77	124.36	119.70
3	A1	56	U	N1-C2-N3	7.77	119.56	114.90
3	A1	650	G	C8-N9-C4	-7.77	103.29	106.40
3	A1	827	U	C5'-C4'-O4'	7.77	118.42	109.10
25	BB	1182	G	C6-N1-C2	-7.77	120.44	125.10
25	BB	2087	G	O4'-C4'-C3'	7.77	112.31	106.10
25	BB	2096	C	C6-N1-C2	-7.77	117.19	120.30
25	BB	2103	C	C5-C6-N1	-7.77	117.12	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1035	A	O4'-C1'-N9	7.76	114.41	108.20
3	A1	1130	A	N9-C1'-C2'	-7.76	103.46	112.00
24	BA	72	G	C5-C6-O6	7.76	133.26	128.60
25	BB	318	C	C2-N3-C4	-7.76	116.02	119.90
25	BB	604	G	N3-C4-N9	-7.76	121.34	126.00
25	BB	760	G	C2-N3-C4	7.76	115.78	111.90
25	BB	1934	C	O4'-C1'-N1	7.76	114.41	108.20
25	BB	2429	G	N3-C2-N2	-7.76	114.46	119.90
25	BB	2836	U	C4-C5-C6	7.76	124.36	119.70
34	BK	78	ARG	NE-CZ-NH1	7.76	124.18	120.30
1	AP	1	G	C5-N7-C8	-7.76	100.42	104.30
1	AE	45	G	N3-C4-C5	-7.76	124.72	128.60
3	A1	835	U	C5-C6-N1	-7.76	118.82	122.70
3	A1	991	U	N1-C1'-C2'	7.76	124.09	114.00
24	BA	39	A	O5'-P-OP2	-7.76	98.71	105.70
25	BB	1037	G	C5-N7-C8	-7.76	100.42	104.30
25	BB	1708	C	C2-N3-C4	-7.76	116.02	119.90
25	BB	2452	C	C1'-O4'-C4'	-7.76	103.69	109.90
3	A1	567	G	N1-C2-N2	7.76	123.18	116.20
3	A1	1024	G	N1-C6-O6	-7.76	115.24	119.90
3	A1	1243	C	C5'-C4'-O4'	7.76	118.42	109.10
24	BA	66	A	C6-N1-C2	-7.76	113.94	118.60
25	BB	280	U	C3'-C2'-C1'	7.76	107.71	101.50
25	BB	724	U	C5-C4-O4	-7.76	121.24	125.90
25	BB	1350	C	C6-N1-C2	-7.76	117.19	120.30
25	BB	1552	A	N9-C4-C5	7.76	108.91	105.80
1	AA	59	U	C5-C6-N1	7.76	126.58	122.70
3	A1	810	C	N3-C4-C5	7.76	125.00	121.90
25	BB	327	G	O4'-C1'-N9	7.76	114.41	108.20
25	BB	1888	G	N9-C4-C5	7.76	108.50	105.40
25	BB	2056	G	N9-C4-C5	7.76	108.50	105.40
25	BB	2109	U	O4'-C1'-N1	7.76	114.41	108.20
25	BB	2471	A	C6-N1-C2	-7.76	113.94	118.60
33	BJ	47	ARG	CD-NE-CZ	7.76	134.46	123.60
50	B1	21	ARG	CD-NE-CZ	7.76	134.46	123.60
3	A1	295	C	P-O3'-C3'	7.76	129.01	119.70
3	A1	1496	C	N3-C2-O2	-7.76	116.47	121.90
1	AA	35	A	N1-C6-N6	-7.76	113.95	118.60
3	A1	305	G	C8-N9-C4	-7.76	103.30	106.40
3	A1	649	A	C6-C5-N7	7.76	137.73	132.30
3	A1	667	G	C5'-C4'-O4'	7.76	118.41	109.10
3	A1	996	A	C1'-O4'-C4'	-7.76	103.69	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1428	A	C2-N3-C4	7.76	114.48	110.60
25	BB	149	A	C5-C6-N1	7.76	121.58	117.70
25	BB	181	A	C8-N9-C4	7.76	108.90	105.80
25	BB	1114	C	O4'-C1'-N1	7.76	114.41	108.20
25	BB	1149	G	N3-C2-N2	7.76	125.33	119.90
25	BB	1151	A	N1-C2-N3	-7.76	125.42	129.30
25	BB	1682	G	N3-C4-C5	-7.76	124.72	128.60
25	BB	1729	U	N3-C2-O2	-7.76	116.77	122.20
25	BB	2837	A	C4'-C3'-C2'	-7.76	94.84	102.60
25	BB	332	A	C4-C5-N7	7.75	114.58	110.70
25	BB	786	C	N1-C2-N3	7.75	124.63	119.20
25	BB	804	A	C1'-O4'-C4'	7.75	116.10	109.90
25	BB	1105	U	N3-C2-O2	-7.75	116.77	122.20
3	A1	874	G	C5-N7-C8	-7.75	100.42	104.30
3	A1	907	A	O4'-C4'-C3'	7.75	112.30	106.10
25	BB	407	G	P-O3'-C3'	7.75	129.00	119.70
25	BB	445	C	O4'-C1'-N1	7.75	114.40	108.20
25	BB	1516	G	C4'-C3'-C2'	-7.75	94.85	102.60
25	BB	1902	C	C3'-C2'-C1'	7.75	107.70	101.50
25	BB	2387	U	C6-N1-C2	7.75	125.65	121.00
1	AA	73	A	N9-C1'-C2'	-7.75	103.47	112.00
1	AE	9	A	C2-N3-C4	7.75	114.48	110.60
2	AM	14	U	N1-C1'-C2'	7.75	124.08	114.00
3	A1	1299	A	C6-N1-C2	-7.75	113.95	118.60
25	BB	549	G	N7-C8-N9	7.75	116.98	113.10
25	BB	711	G	N1-C6-O6	-7.75	115.25	119.90
25	BB	855	G	O4'-C1'-N9	7.75	114.40	108.20
25	BB	1112	G	C6-C5-N7	7.75	135.05	130.40
25	BB	2112	G	N3-C4-C5	-7.75	124.72	128.60
3	A1	161	A	C2-N3-C4	7.75	114.47	110.60
3	A1	374	A	C6-C5-N7	7.75	137.72	132.30
3	A1	747	A	C5'-C4'-O4'	7.75	118.40	109.10
3	A1	1501	C	C6-N1-C2	-7.75	117.20	120.30
25	BB	1063	G	N3-C4-N9	7.75	130.65	126.00
3	A1	284	C	C6-N1-C2	-7.75	117.20	120.30
3	A1	552	U	N3-C2-O2	-7.75	116.78	122.20
3	A1	829	G	C5-C6-O6	7.75	133.25	128.60
3	A1	832	G	C5-C6-N1	7.75	115.37	111.50
3	A1	884	U	N3-C2-O2	-7.75	116.78	122.20
3	A1	1438	G	N1-C2-N2	7.75	123.17	116.20
25	BB	1663	G	N1-C6-O6	-7.75	115.25	119.90
25	BB	2266	A	C1'-O4'-C4'	-7.75	103.70	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	BI	38	ARG	NE-CZ-NH1	7.75	124.17	120.30
25	BB	293	U	N3-C4-O4	7.75	124.82	119.40
25	BB	458	G	C5-C6-N1	7.75	115.37	111.50
25	BB	684	G	O4'-C1'-C2'	7.75	114.57	107.60
25	BB	826	U	C5-C6-N1	-7.75	118.83	122.70
25	BB	1644	C	N3-C4-N4	-7.75	112.58	118.00
3	A1	216	U	N1-C2-O2	7.75	128.22	122.80
3	A1	505	G	C5-C6-N1	7.75	115.37	111.50
25	BB	595	C	C5-C4-N4	-7.75	114.78	120.20
25	BB	1278	C	N3-C2-O2	-7.75	116.48	121.90
25	BB	1669	A	N7-C8-N9	7.75	117.67	113.80
25	BB	2197	U	C1'-O4'-C4'	-7.75	103.70	109.90
25	BB	2494	G	N1-C2-N2	-7.75	109.23	116.20
3	A1	74	A	C6-N1-C2	-7.74	113.95	118.60
3	A1	154	U	C5-C6-N1	-7.74	118.83	122.70
3	A1	276	G	N9-C4-C5	-7.74	102.30	105.40
3	A1	1175	G	C6-N1-C2	-7.74	120.45	125.10
25	BB	114	U	C5'-C4'-O4'	7.74	118.39	109.10
25	BB	1158	C	C6-N1-C2	-7.74	117.20	120.30
25	BB	1175	A	N9-C4-C5	7.74	108.90	105.80
25	BB	2598	A	C4-C5-C6	-7.74	113.13	117.00
25	BB	2715	C	N1-C2-N3	7.74	124.62	119.20
25	BB	2835	A	O4'-C1'-C2'	-7.74	98.06	105.80
3	A1	271	C	C5-C4-N4	7.74	125.62	120.20
25	BB	2352	A	C8-N9-C4	-7.74	102.70	105.80
3	A1	407	U	O4'-C1'-N1	7.74	114.39	108.20
3	A1	423	G	C2-N3-C4	7.74	115.77	111.90
3	A1	463	U	C4-C5-C6	7.74	124.34	119.70
3	A1	576	C	N3-C2-O2	-7.74	116.48	121.90
3	A1	817	C	N3-C4-N4	-7.74	112.58	118.00
3	A1	1283	U	C5-C6-N1	-7.74	118.83	122.70
3	A1	1427	C	N1-C2-O2	7.74	123.54	118.90
24	BA	69	G	N1-C6-O6	-7.74	115.25	119.90
25	BB	370	G	N3-C4-N9	7.74	130.64	126.00
25	BB	996	A	C6-C5-N7	7.74	137.72	132.30
25	BB	1056	G	C6-N1-C2	-7.74	120.45	125.10
25	BB	1731	G	C3'-C2'-C1'	-7.74	95.31	101.50
25	BB	1986	C	C2-N3-C4	-7.74	116.03	119.90
25	BB	2638	G	N1-C6-O6	-7.74	115.26	119.90
25	BB	2661	G	N3-C4-C5	-7.74	124.73	128.60
25	BB	2675	A	C5-C6-N6	7.74	129.89	123.70
25	BB	2684	U	O4'-C1'-N1	7.74	114.39	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2815	C	N1-C2-O2	7.74	123.54	118.90
3	A1	808	C	N3-C2-O2	-7.74	116.48	121.90
3	A1	882	C	N1-C2-O2	7.74	123.54	118.90
3	A1	1110	A	N7-C8-N9	-7.74	109.93	113.80
3	A1	1293	C	O4'-C1'-N1	7.74	114.39	108.20
25	BB	450	G	C3'-C2'-C1'	7.74	107.69	101.50
25	BB	1157	G	O4'-C1'-N9	7.74	114.39	108.20
25	BB	1457	U	N3-C4-C5	-7.74	109.96	114.60
25	BB	1488	C	N3-C4-C5	-7.74	118.80	121.90
25	BB	1688	U	C4'-C3'-C2'	-7.74	94.86	102.60
25	BB	1875	G	C1'-O4'-C4'	7.74	116.09	109.90
25	BB	2669	G	C4-C5-C6	-7.74	114.16	118.80
25	BB	1309	G	P-O3'-C3'	7.74	128.98	119.70
25	BB	1905	C	C5'-C4'-O4'	-7.74	99.82	109.10
25	BB	2154	A	C6-N1-C2	-7.74	113.96	118.60
3	A1	499	A	N3-C4-C5	7.74	132.21	126.80
3	A1	537	G	C4-C5-N7	7.74	113.89	110.80
25	BB	130	C	N3-C2-O2	-7.74	116.49	121.90
25	BB	506	G	N1-C2-N3	7.74	128.54	123.90
25	BB	1257	C	C5-C4-N4	-7.74	114.78	120.20
25	BB	1412	U	N1-C2-N3	7.74	119.54	114.90
25	BB	2170	A	C3'-C2'-C1'	7.74	107.69	101.50
30	BG	71	ARG	NE-CZ-NH1	7.74	124.17	120.30
3	A1	1072	G	C4'-C3'-C2'	-7.73	94.87	102.60
3	A1	1084	G	C1'-O4'-C4'	-7.73	103.71	109.90
25	BB	340	A	N7-C8-N9	-7.73	109.93	113.80
25	BB	370	G	N1-C2-N2	-7.73	109.24	116.20
25	BB	663	G	C5-C6-N1	7.73	115.37	111.50
25	BB	2706	A	C8-N9-C4	-7.73	102.71	105.80
3	A1	977	A	C2-N3-C4	7.73	114.47	110.60
25	BB	266	G	P-O3'-C3'	-7.73	110.42	119.70
25	BB	1015	U	O4'-C1'-C2'	-7.73	98.07	105.80
25	BB	1629	U	N3-C2-O2	-7.73	116.79	122.20
25	BB	1756	G	C6-C5-N7	7.73	135.04	130.40
25	BB	2487	G	C3'-C2'-C1'	7.73	107.69	101.50
3	A1	31	G	C5-C6-N1	7.73	115.36	111.50
3	A1	964	A	C2-N3-C4	7.73	114.47	110.60
3	A1	1290	G	N3-C4-C5	-7.73	124.73	128.60
3	A1	1515	G	N7-C8-N9	-7.73	109.23	113.10
25	BB	22	C	C1'-O4'-C4'	7.73	116.08	109.90
25	BB	167	A	N1-C2-N3	-7.73	125.44	129.30
25	BB	446	G	C6-N1-C2	-7.73	120.46	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	614	A	O4'-C1'-C2'	-7.73	98.07	105.80
25	BB	981	A	N1-C6-N6	-7.73	113.96	118.60
25	BB	1029	A	C4'-C3'-C2'	-7.73	94.87	102.60
25	BB	1777	U	N1-C1'-C2'	7.73	124.05	114.00
25	BB	2327	A	N1-C2-N3	-7.73	125.44	129.30
3	A1	266	G	C8-N9-C4	-7.73	103.31	106.40
3	A1	931	C	N1-C2-N3	7.73	124.61	119.20
25	BB	748	G	N7-C8-N9	7.73	116.97	113.10
25	BB	1338	G	O4'-C4'-C3'	7.73	112.28	106.10
1	AP	30	G	N9-C4-C5	7.73	108.49	105.40
1	AE	44	A	C5'-C4'-O4'	7.73	118.37	109.10
3	A1	548	G	O4'-C1'-N9	7.73	114.38	108.20
3	A1	927	G	O4'-C1'-N9	-7.73	102.02	108.20
25	BB	765	C	C4-C5-C6	7.73	121.26	117.40
25	BB	922	C	N3-C2-O2	-7.73	116.49	121.90
25	BB	993	G	N7-C8-N9	7.73	116.96	113.10
25	BB	1176	U	C1'-O4'-C4'	-7.73	103.72	109.90
25	BB	1843	C	N3-C4-C5	-7.73	118.81	121.90
25	BB	2470	G	C5-C6-O6	7.73	133.24	128.60
3	A1	619	U	O4'-C1'-N1	7.73	114.38	108.20
3	A1	811	C	N1-C2-N3	7.73	124.61	119.20
3	A1	1000	A	C6-N1-C2	-7.73	113.96	118.60
3	A1	1471	U	C5'-C4'-O4'	7.73	118.37	109.10
25	BB	959	A	N7-C8-N9	7.73	117.66	113.80
1	AA	62	A	N1-C6-N6	-7.72	113.97	118.60
3	A1	671	G	C8-N9-C4	-7.72	103.31	106.40
3	A1	864	A	C5-C6-N1	7.72	121.56	117.70
3	A1	1061	G	C4-C5-C6	-7.72	114.17	118.80
25	BB	388	G	C8-N9-C4	-7.72	103.31	106.40
25	BB	621	A	N1-C6-N6	-7.72	113.97	118.60
25	BB	905	A	C5-C6-N1	7.72	121.56	117.70
25	BB	1066	U	C4'-C3'-C2'	-7.72	94.88	102.60
25	BB	1449	G	C3'-C2'-C1'	7.72	107.68	101.50
25	BB	1730	C	C5-C6-N1	-7.72	117.14	121.00
25	BB	1791	A	C5-N7-C8	-7.72	100.04	103.90
25	BB	1944	U	C3'-C2'-C1'	7.72	107.68	101.50
25	BB	2601	C	C4-C5-C6	-7.72	113.54	117.40
45	BV	41	ARG	NE-CZ-NH1	-7.72	116.44	120.30
1	AA	22	G	P-O3'-C3'	7.72	128.97	119.70
3	A1	290	C	C5'-C4'-O4'	7.72	118.37	109.10
3	A1	584	G	N3-C4-C5	-7.72	124.74	128.60
3	A1	665	A	N1-C2-N3	-7.72	125.44	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	988	G	C6-C5-N7	7.72	135.03	130.40
25	BB	221	A	O4'-C1'-N9	7.72	114.38	108.20
25	BB	1053	C	N1-C2-N3	7.72	124.61	119.20
25	BB	1762	A	C3'-C2'-C1'	-7.72	95.32	101.50
25	BB	1820	U	C3'-C2'-C1'	7.72	107.68	101.50
25	BB	1975	G	N9-C4-C5	-7.72	102.31	105.40
25	BB	2049	G	C4'-C3'-O3'	7.72	128.44	113.00
25	BB	2464	G	C5-N7-C8	-7.72	100.44	104.30
29	BF	103	TYR	CB-CG-CD2	7.72	125.63	121.00
3	A1	1220	G	C6-C5-N7	7.72	135.03	130.40
3	A1	1297	G	C5-C6-N1	7.72	115.36	111.50
25	BB	1098	A	C5-C6-N1	7.72	121.56	117.70
25	BB	929	U	N1-C2-N3	7.72	119.53	114.90
25	BB	978	G	N7-C8-N9	7.72	116.96	113.10
25	BB	1255	U	O4'-C1'-N1	7.72	114.38	108.20
25	BB	1598	A	C6-N1-C2	-7.72	113.97	118.60
25	BB	2455	G	C1'-O4'-C4'	-7.72	103.72	109.90
25	BB	2852	G	C5-N7-C8	-7.72	100.44	104.30
3	A1	467	U	O4'-C1'-N1	7.72	114.37	108.20
3	A1	821	G	N7-C8-N9	-7.72	109.24	113.10
3	A1	1215	G	C6-C5-N7	7.72	135.03	130.40
25	BB	1525	A	N9-C4-C5	-7.72	102.71	105.80
25	BB	2038	G	C5-N7-C8	-7.72	100.44	104.30
3	A1	228	A	C1'-O4'-C4'	-7.72	103.73	109.90
3	A1	1371	G	C4-C5-C6	-7.72	114.17	118.80
25	BB	500	G	C8-N9-C4	-7.72	103.31	106.40
25	BB	501	A	C5-C6-N6	7.72	129.87	123.70
25	BB	1149	G	C6-N1-C2	-7.72	120.47	125.10
25	BB	1790	C	O4'-C1'-C2'	-7.72	98.08	105.80
25	BB	1917	U	N1-C2-N3	7.72	119.53	114.90
25	BB	2178	C	C1'-O4'-C4'	-7.72	103.73	109.90
3	A1	505	G	C4-C5-C6	-7.71	114.17	118.80
3	A1	614	C	C5-C4-N4	-7.71	114.80	120.20
3	A1	712	A	C1'-O4'-C4'	-7.71	103.73	109.90
3	A1	779	C	C3'-C2'-C1'	7.71	107.67	101.50
3	A1	846	G	N9-C4-C5	-7.71	102.31	105.40
24	BA	33	G	C4-C5-N7	7.71	113.89	110.80
25	BB	279	A	N9-C1'-C2'	-7.71	103.52	112.00
25	BB	518	G	C4-C5-C6	-7.71	114.17	118.80
25	BB	1163	G	C6-C5-N7	7.71	135.03	130.40
25	BB	1226	A	O4'-C1'-C2'	-7.71	98.08	105.80
25	BB	1248	G	C5-C6-O6	-7.71	123.97	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1850	G	N3-C4-C5	-7.71	124.74	128.60
25	BB	2202	U	C1'-O4'-C4'	-7.71	103.73	109.90
25	BB	2852	G	C2-N3-C4	-7.71	108.04	111.90
3	A1	890	G	N7-C8-N9	7.71	116.96	113.10
24	BA	116	G	C5-C6-N1	-7.71	107.64	111.50
25	BB	47	C	N3-C2-O2	-7.71	116.50	121.90
25	BB	551	G	C6-C5-N7	7.71	135.03	130.40
25	BB	963	U	N1-C2-O2	7.71	128.20	122.80
25	BB	2433	A	C5-C6-N6	7.71	129.87	123.70
3	A1	266	G	N3-C4-C5	-7.71	124.74	128.60
3	A1	411	A	C2-N3-C4	7.71	114.45	110.60
3	A1	435	A	C5-C6-N6	7.71	129.87	123.70
3	A1	1055	A	C5-N7-C8	-7.71	100.04	103.90
3	A1	1254	A	N9-C4-C5	7.71	108.88	105.80
22	AW	10	ARG	NH1-CZ-NH2	-7.71	110.92	119.40
25	BB	68	G	N3-C4-N9	7.71	130.63	126.00
25	BB	629	G	C5-C6-N1	7.71	115.36	111.50
25	BB	1102	C	C1'-O4'-C4'	-7.71	103.73	109.90
25	BB	1148	U	C5-C4-O4	7.71	130.53	125.90
25	BB	1434	A	O4'-C1'-N9	7.71	114.37	108.20
25	BB	1545	A	C5'-C4'-O4'	7.71	118.35	109.10
3	A1	540	G	O4'-C1'-N9	7.71	114.37	108.20
25	BB	379	G	N3-C4-C5	-7.71	124.75	128.60
25	BB	1607	C	N1-C2-N3	7.71	124.60	119.20
25	BB	2020	A	N1-C2-N3	-7.71	125.44	129.30
25	BB	2135	A	O4'-C1'-N9	7.71	114.37	108.20
3	A1	357	G	N1-C2-N2	-7.71	109.26	116.20
3	A1	955	U	C1'-O4'-C4'	-7.71	103.73	109.90
3	A1	1197	A	C6-C5-N7	7.71	137.70	132.30
9	AH	63	ARG	NH1-CZ-NH2	-7.71	110.92	119.40
25	BB	1155	A	C5-C6-N1	7.71	121.56	117.70
25	BB	1420	A	C4-C5-N7	7.71	114.55	110.70
25	BB	1703	G	N1-C6-O6	-7.71	115.28	119.90
25	BB	1773	A	N3-C4-C5	-7.71	121.40	126.80
25	BB	1931	U	C1'-O4'-C4'	7.71	116.07	109.90
1	AP	73	A	C4-C5-C6	-7.71	113.15	117.00
3	A1	113	G	N3-C4-C5	-7.71	124.75	128.60
3	A1	345	C	N3-C2-O2	-7.71	116.51	121.90
3	A1	506	G	C8-N9-C4	-7.71	103.32	106.40
3	A1	980	C	C5'-C4'-O4'	7.71	118.35	109.10
3	A1	1174	G	C6-N1-C2	-7.71	120.48	125.10
24	BA	5	U	C5'-C4'-O4'	7.71	118.35	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	194	G	N3-C4-N9	7.71	130.62	126.00
25	BB	490	C	N1-C2-O2	7.71	123.52	118.90
25	BB	980	A	C4-C5-N7	-7.71	106.85	110.70
25	BB	2755	C	C1'-O4'-C4'	-7.71	103.73	109.90
36	BM	25	GLU	OE1-CD-OE2	-7.71	114.05	123.30
25	BB	471	A	C5-N7-C8	-7.71	100.05	103.90
25	BB	2475	C	N1-C2-O2	7.71	123.52	118.90
3	A1	356	A	N9-C4-C5	7.70	108.88	105.80
3	A1	626	G	N3-C4-C5	7.70	132.45	128.60
3	A1	1259	C	N3-C4-C5	7.70	124.98	121.90
21	AV	116	ARG	CD-NE-CZ	7.70	134.39	123.60
25	BB	789	A	C8-N9-C4	-7.70	102.72	105.80
25	BB	2058	A	C6-C5-N7	7.70	137.69	132.30
25	BB	2240	U	O3'-P-O5'	7.70	118.64	104.00
25	BB	2663	G	N3-C2-N2	-7.70	114.51	119.90
37	BN	172	THR	CA-CB-CG2	7.70	123.19	112.40
38	BO	6	ARG	NE-CZ-NH2	-7.70	116.45	120.30
3	A1	93	U	N3-C2-O2	-7.70	116.81	122.20
3	A1	1152	A	C5-N7-C8	-7.70	100.05	103.90
3	A1	1394	A	C2-N3-C4	7.70	114.45	110.60
25	BB	1323	C	C6-N1-C2	-7.70	117.22	120.30
25	BB	1632	A	O4'-C1'-N9	7.70	114.36	108.20
25	BB	1684	G	N3-C2-N2	-7.70	114.51	119.90
1	AA	46	G	C2-N3-C4	-7.70	108.05	111.90
3	A1	31	G	N3-C2-N2	-7.70	114.51	119.90
3	A1	293	G	C4-C5-N7	-7.70	107.72	110.80
3	A1	484	G	C6-C5-N7	-7.70	125.78	130.40
3	A1	691	G	C2'-C3'-O3'	7.70	126.44	109.50
3	A1	704	A	C5-C6-N1	7.70	121.55	117.70
3	A1	933	G	C5-N7-C8	-7.70	100.45	104.30
3	A1	938	A	C5-N7-C8	7.70	107.75	103.90
25	BB	875	G	N1-C2-N2	-7.70	109.27	116.20
25	BB	1387	A	C2-N3-C4	7.70	114.45	110.60
25	BB	1568	G	C5-N7-C8	-7.70	100.45	104.30
25	BB	2505	G	C8-N9-C4	-7.70	103.32	106.40
3	A1	541	G	C2-N3-C4	7.70	115.75	111.90
3	A1	908	A	C5-C6-N1	7.70	121.55	117.70
3	A1	1002	G	C5-C6-N1	7.70	115.35	111.50
3	A1	1013	G	N7-C8-N9	7.70	116.95	113.10
3	A1	1363	A	N9-C4-C5	7.70	108.88	105.80
25	BB	529	A	C3'-C2'-C1'	7.70	107.66	101.50
25	BB	645	C	C2-N3-C4	-7.70	116.05	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	751	A	C5-C6-N6	7.70	129.86	123.70
25	BB	755	U	N1-C2-N3	7.70	119.52	114.90
25	BB	1733	G	O5'-P-OP1	-7.70	98.77	105.70
25	BB	2529	G	N9-C4-C5	7.70	108.48	105.40
25	BB	2683	C	C3'-C2'-C1'	7.70	107.66	101.50
3	A1	25	C	N1-C2-O2	7.70	123.52	118.90
1	AE	53	G	C4-C5-N7	-7.70	107.72	110.80
3	A1	298	A	N7-C8-N9	7.70	117.65	113.80
3	A1	388	G	N3-C2-N2	-7.70	114.51	119.90
3	A1	401	C	C5-C6-N1	-7.70	117.15	121.00
3	A1	953	G	C5-C6-N1	7.70	115.35	111.50
3	A1	1209	C	N3-C2-O2	-7.70	116.51	121.90
3	A1	1522	U	C5-C4-O4	-7.70	121.28	125.90
25	BB	31	C	N3-C4-N4	-7.70	112.61	118.00
25	BB	1531	C	C4-C5-C6	7.70	121.25	117.40
25	BB	1637	A	C5-C6-N6	7.70	129.86	123.70
25	BB	2138	G	C4-C5-N7	-7.70	107.72	110.80
25	BB	2452	C	N1-C2-O2	7.70	123.52	118.90
39	BP	16	GLU	OE1-CD-OE2	-7.70	114.06	123.30
39	BP	76	ARG	NE-CZ-NH1	7.70	124.15	120.30
3	A1	674	G	O4'-C1'-N9	7.69	114.36	108.20
25	BB	919	U	C1'-O4'-C4'	-7.69	103.75	109.90
25	BB	1087	G	C8-N9-C4	-7.69	103.32	106.40
39	BP	54	ARG	NE-CZ-NH1	7.69	124.15	120.30
1	AE	6	U	C2-N3-C4	-7.69	122.38	127.00
3	A1	119	A	C4-C5-N7	-7.69	106.85	110.70
3	A1	218	U	C5'-C4'-O4'	7.69	118.33	109.10
3	A1	869	G	C1'-O4'-C4'	-7.69	103.75	109.90
3	A1	881	G	N3-C2-N2	-7.69	114.52	119.90
3	A1	1279	G	N1-C2-N2	-7.69	109.28	116.20
25	BB	196	A	C5-C6-N1	7.69	121.55	117.70
25	BB	914	G	N1-C6-O6	-7.69	115.28	119.90
25	BB	1292	G	C5-N7-C8	-7.69	100.45	104.30
25	BB	1374	G	O4'-C4'-C3'	7.69	112.25	106.10
25	BB	1458	U	N1-C2-N3	7.69	119.52	114.90
25	BB	1462	C	N3-C4-C5	7.69	124.98	121.90
25	BB	1728	C	C6-N1-C2	-7.69	117.22	120.30
25	BB	1860	G	N1-C2-N3	7.69	128.51	123.90
25	BB	2263	C	N3-C2-O2	-7.69	116.52	121.90
3	A1	66	A	C4-C5-C6	-7.69	113.16	117.00
3	A1	255	G	C8-N9-C4	-7.69	103.32	106.40
3	A1	1022	A	C3'-C2'-C1'	-7.69	95.35	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	AC	12	ARG	CD-NE-CZ	7.69	134.37	123.60
25	BB	91	A	C5-N7-C8	-7.69	100.06	103.90
25	BB	144	A	N1-C6-N6	-7.69	113.99	118.60
25	BB	1617	C	O4'-C1'-N1	7.69	114.35	108.20
25	BB	1928	A	C2-N3-C4	7.69	114.44	110.60
25	BB	1969	A	C6-C5-N7	7.69	137.68	132.30
25	BB	2027	G	N1-C6-O6	-7.69	115.28	119.90
1	AA	20	G	O4'-C1'-N9	7.69	114.35	108.20
3	A1	298	A	C8-N9-C4	-7.69	102.72	105.80
3	A1	1397	C	N1-C2-N3	7.69	124.58	119.20
25	BB	992	C	N3-C4-C5	-7.69	118.82	121.90
25	BB	1430	G	C8-N9-C4	-7.69	103.32	106.40
25	BB	1734	G	C4'-C3'-C2'	-7.69	94.91	102.60
25	BB	2819	G	N1-C2-N3	7.69	128.51	123.90
52	B3	57	TYR	CB-CG-CD2	-7.69	116.39	121.00
1	AE	10	G	C5-N7-C8	-7.69	100.46	104.30
3	A1	28	A	C2-N3-C4	7.69	114.44	110.60
3	A1	166	U	N1-C2-N3	7.69	119.51	114.90
3	A1	417	G	C4-C5-N7	7.69	113.88	110.80
3	A1	892	A	C5'-C4'-C3'	-7.69	103.70	116.00
25	BB	223	A	C8-N9-C4	-7.69	102.72	105.80
25	BB	844	A	C6-N1-C2	-7.69	113.99	118.60
25	BB	1268	A	N1-C2-N3	-7.69	125.46	129.30
25	BB	1508	A	N9-C4-C5	-7.69	102.72	105.80
25	BB	2125	G	N3-C2-N2	-7.69	114.52	119.90
25	BB	2131	U	C3'-C2'-C1'	7.69	107.65	101.50
25	BB	2161	C	C6-N1-C2	-7.69	117.22	120.30
25	BB	2214	C	N3-C2-O2	-7.69	116.52	121.90
25	BB	2359	C	O4'-C1'-N1	7.69	114.35	108.20
3	A1	544	G	C8-N9-C4	-7.69	103.33	106.40
25	BB	405	U	C5-C6-N1	7.69	126.54	122.70
25	BB	2676	C	N3-C2-O2	-7.69	116.52	121.90
25	BB	2680	U	C5-C6-N1	-7.69	118.86	122.70
3	A1	687	A	C4-C5-C6	-7.68	113.16	117.00
25	BB	254	G	N7-C8-N9	7.68	116.94	113.10
25	BB	365	U	C6-N1-C2	-7.68	116.39	121.00
25	BB	782	A	C4-C5-C6	-7.68	113.16	117.00
25	BB	1107	G	C6-C5-N7	-7.68	125.79	130.40
25	BB	1116	G	N3-C2-N2	-7.68	114.52	119.90
25	BB	1167	C	C5'-C4'-O4'	-7.68	99.88	109.10
25	BB	1261	C	N3-C4-N4	-7.68	112.62	118.00
25	BB	1872	A	C4-C5-N7	7.68	114.54	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1949	G	C5'-C4'-C3'	-7.68	103.71	116.00
25	BB	2455	G	N1-C6-O6	-7.68	115.29	119.90
3	A1	741	G	N3-C2-N2	-7.68	114.52	119.90
3	A1	1233	G	C4-C5-C6	-7.68	114.19	118.80
25	BB	164	C	C4'-C3'-C2'	-7.68	94.92	102.60
25	BB	461	C	N3-C4-N4	-7.68	112.62	118.00
25	BB	680	C	N3-C2-O2	-7.68	116.52	121.90
25	BB	892	A	C5'-C4'-O4'	7.68	118.32	109.10
25	BB	923	G	C8-N9-C4	-7.68	103.33	106.40
25	BB	1175	A	N7-C8-N9	7.68	117.64	113.80
25	BB	1520	U	N1-C2-N3	7.68	119.51	114.90
25	BB	1856	U	C1'-O4'-C4'	-7.68	103.75	109.90
25	BB	2217	G	N7-C8-N9	-7.68	109.26	113.10
25	BB	2404	U	O4'-C1'-N1	7.68	114.35	108.20
3	A1	1117	A	C4-C5-C6	-7.68	113.16	117.00
25	BB	750	A	C8-N9-C4	-7.68	102.73	105.80
25	BB	2729	G	N3-C2-N2	-7.68	114.52	119.90
1	AP	15	G	O4'-C1'-N9	7.68	114.34	108.20
3	A1	91	U	C5-C6-N1	-7.68	118.86	122.70
3	A1	341	C	C2-N3-C4	-7.68	116.06	119.90
3	A1	1305	G	N1-C6-O6	-7.68	115.29	119.90
24	BA	15	A	C4-C5-C6	-7.68	113.16	117.00
25	BB	3	U	N1-C2-N3	7.68	119.51	114.90
25	BB	129	C	N3-C2-O2	-7.68	116.52	121.90
25	BB	497	A	C6-C5-N7	7.68	137.68	132.30
25	BB	1283	G	C8-N9-C4	7.68	109.47	106.40
25	BB	1436	G	N7-C8-N9	7.68	116.94	113.10
25	BB	1854	A	O4'-C1'-N9	-7.68	102.06	108.20
25	BB	2019	A	N1-C6-N6	-7.68	113.99	118.60
25	BB	2102	G	O4'-C1'-N9	7.68	114.34	108.20
25	BB	2745	C	C2-N3-C4	-7.68	116.06	119.90
37	BN	86	ARG	NH1-CZ-NH2	-7.68	110.95	119.40
3	A1	706	A	C5-N7-C8	-7.68	100.06	103.90
25	BB	72	U	C4'-C3'-C2'	-7.68	94.92	102.60
25	BB	447	A	C6-C5-N7	7.68	137.67	132.30
25	BB	889	C	N3-C2-O2	-7.68	116.53	121.90
1	AP	15	G	C8-N9-C4	-7.68	103.33	106.40
1	AE	75	C	C4-C5-C6	-7.68	113.56	117.40
3	A1	229	U	O4'-C4'-C3'	7.68	112.24	106.10
3	A1	348	G	N1-C2-N3	7.68	128.51	123.90
3	A1	1081	A	C4-C5-C6	-7.68	113.16	117.00
3	A1	1365	G	N3-C4-C5	-7.68	124.76	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1506	U	C1'-O4'-C4'	-7.68	103.76	109.90
25	BB	59	U	C5-C6-N1	-7.68	118.86	122.70
25	BB	517	C	N3-C2-O2	-7.68	116.53	121.90
25	BB	710	U	P-O3'-C3'	7.68	128.91	119.70
25	BB	1312	U	O4'-C1'-N1	7.68	114.34	108.20
25	BB	1326	U	P-O3'-C3'	7.68	128.91	119.70
25	BB	2765	A	N3-C4-N9	7.68	133.54	127.40
25	BB	2898	U	C4-C5-C6	7.68	124.31	119.70
3	A1	938	A	C8-N9-C4	7.67	108.87	105.80
3	A1	1117	A	N1-C2-N3	-7.67	125.46	129.30
3	A1	1272	G	N3-C2-N2	-7.67	114.53	119.90
3	A1	1348	U	O4'-C1'-N1	7.67	114.34	108.20
25	BB	264	C	N3-C2-O2	-7.67	116.53	121.90
25	BB	841	G	C5-N7-C8	7.67	108.14	104.30
25	BB	1171	G	C4-C5-N7	7.67	113.87	110.80
25	BB	1333	G	C5-C6-O6	7.67	133.21	128.60
25	BB	1552	A	N1-C2-N3	7.67	133.14	129.30
25	BB	2753	A	N7-C8-N9	-7.67	109.96	113.80
3	A1	673	A	C5-C6-N6	7.67	129.84	123.70
3	A1	1043	G	C5-C6-N1	7.67	115.34	111.50
25	BB	1048	A	C5-N7-C8	-7.67	100.06	103.90
25	BB	1256	G	N1-C6-O6	-7.67	115.30	119.90
25	BB	1807	G	N3-C4-C5	-7.67	124.76	128.60
3	A1	59	A	C5-C6-N1	7.67	121.53	117.70
3	A1	114	U	O4'-C4'-C3'	7.67	112.24	106.10
3	A1	1038	C	N1-C2-O2	7.67	123.50	118.90
25	BB	34	U	C3'-C2'-C1'	7.67	107.64	101.50
25	BB	59	U	C2-N3-C4	-7.67	122.40	127.00
25	BB	356	G	N3-C2-N2	-7.67	114.53	119.90
25	BB	1450	G	C4-C5-N7	-7.67	107.73	110.80
25	BB	1522	A	C5-C6-N1	7.67	121.54	117.70
25	BB	1608	A	C5'-C4'-O4'	-7.67	99.89	109.10
25	BB	1707	G	N1-C6-O6	-7.67	115.30	119.90
25	BB	1842	G	C5-C6-O6	-7.67	124.00	128.60
25	BB	2277	G	O4'-C1'-N9	7.67	114.34	108.20
25	BB	2479	U	C5-C6-N1	-7.67	118.86	122.70
25	BB	408	G	C8-N9-C4	-7.67	103.33	106.40
25	BB	1763	G	C3'-C2'-C1'	-7.67	95.36	101.50
3	A1	374	A	C4-C5-N7	-7.67	106.87	110.70
3	A1	481	G	C3'-C2'-C1'	7.67	107.63	101.50
3	A1	497	G	N1-C6-O6	-7.67	115.30	119.90
3	A1	1014	A	C6-C5-N7	7.67	137.67	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
20	AU	73	GLU	OE1-CD-OE2	-7.67	114.10	123.30
24	BA	84	G	C3'-C2'-C1'	7.67	107.63	101.50
25	BB	434	U	C4'-C3'-C2'	-7.67	94.93	102.60
25	BB	1092	C	C5-C4-N4	7.67	125.57	120.20
25	BB	2465	C	N3-C4-C5	7.67	124.97	121.90
25	BB	2620	C	N3-C2-O2	-7.67	116.53	121.90
1	AA	9	A	O4'-C4'-C3'	7.67	112.23	106.10
3	A1	275	G	C5-C6-O6	-7.67	124.00	128.60
3	A1	304	U	N3-C2-O2	-7.67	116.83	122.20
3	A1	549	C	C5'-C4'-O4'	7.67	118.30	109.10
3	A1	632	U	C3'-C2'-C1'	7.67	107.63	101.50
3	A1	651	C	N3-C4-C5	7.67	124.97	121.90
3	A1	821	G	C5-N7-C8	7.67	108.13	104.30
3	A1	1225	A	C6-N1-C2	-7.67	114.00	118.60
3	A1	1325	C	N1-C2-O2	7.67	123.50	118.90
3	A1	1364	U	C5-C4-O4	7.67	130.50	125.90
3	A1	1423	G	C4-C5-C6	7.67	123.40	118.80
25	BB	107	G	C5-N7-C8	-7.67	100.47	104.30
25	BB	1528	A	N3-C4-N9	7.67	133.53	127.40
1	AA	62	A	C5'-C4'-C3'	-7.67	103.74	116.00
3	A1	470	C	C5-C4-N4	-7.67	114.83	120.20
3	A1	1134	G	C2-N3-C4	7.67	115.73	111.90
3	A1	1406	U	C5-C4-O4	7.67	130.50	125.90
25	BB	409	G	C5-N7-C8	-7.67	100.47	104.30
25	BB	707	G	C4-C5-N7	7.67	113.87	110.80
25	BB	802	A	C2-N3-C4	7.67	114.43	110.60
25	BB	2745	C	N1-C2-O2	7.67	123.50	118.90
3	A1	809	G	C8-N9-C4	-7.66	103.33	106.40
3	A1	1045	C	C5-C6-N1	-7.66	117.17	121.00
3	A1	1284	C	C5-C6-N1	-7.66	117.17	121.00
3	A1	1438	G	C2-N3-C4	7.66	115.73	111.90
25	BB	187	G	C6-C5-N7	7.66	135.00	130.40
25	BB	246	C	C4-C5-C6	-7.66	113.57	117.40
25	BB	918	A	C6-N1-C2	-7.66	114.00	118.60
25	BB	1856	U	C5-C6-N1	-7.66	118.87	122.70
25	BB	1918	A	C3'-C2'-C1'	-7.66	95.37	101.50
25	BB	2578	G	C5-C6-O6	7.66	133.20	128.60
25	BB	2698	U	O4'-C4'-C3'	7.66	112.23	106.10
1	AP	34	G	N3-C4-C5	-7.66	124.77	128.60
1	AP	36	A	C4'-C3'-C2'	-7.66	94.94	102.60
3	A1	572	A	O4'-C1'-N9	-7.66	102.07	108.20
3	A1	1011	C	C1'-O4'-C4'	-7.66	103.77	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	712	G	C5-N7-C8	7.66	108.13	104.30
25	BB	925	A	C8-N9-C4	-7.66	102.73	105.80
25	BB	1756	G	C6-N1-C2	-7.66	120.50	125.10
3	A1	1063	C	C1'-O4'-C4'	-7.66	103.77	109.90
24	BA	69	G	N7-C8-N9	7.66	116.93	113.10
25	BB	217	A	C6-N1-C2	-7.66	114.00	118.60
25	BB	324	A	C5-C6-N6	7.66	129.83	123.70
25	BB	1690	A	C5-C6-N6	7.66	129.83	123.70
25	BB	1999	C	N1-C2-N3	7.66	124.56	119.20
25	BB	2280	G	C5-N7-C8	-7.66	100.47	104.30
25	BB	2322	A	C1'-O4'-C4'	-7.66	103.77	109.90
25	BB	2419	U	N1-C1'-C2'	-7.66	103.57	112.00
25	BB	2445	G	C4'-C3'-C2'	-7.66	94.94	102.60
3	A1	495	A	C6-C5-N7	7.66	137.66	132.30
3	A1	536	C	O4'-C4'-C3'	7.66	112.23	106.10
3	A1	665	A	C6-N1-C2	-7.66	114.00	118.60
3	A1	687	A	N7-C8-N9	7.66	117.63	113.80
25	BB	511	U	C2-N3-C4	-7.66	122.41	127.00
25	BB	1075	C	N1-C2-N3	7.66	124.56	119.20
25	BB	1608	A	C2'-C3'-O3'	7.66	126.35	109.50
25	BB	1721	G	C6-C5-N7	7.66	135.00	130.40
25	BB	1935	G	N3-C2-N2	-7.66	114.54	119.90
3	A1	1432	G	N1-C6-O6	-7.66	115.31	119.90
25	BB	952	G	C8-N9-C4	-7.66	103.34	106.40
25	BB	1333	G	N1-C2-N2	-7.66	109.31	116.20
3	A1	832	G	C6-N1-C2	-7.66	120.51	125.10
3	A1	1417	G	N7-C8-N9	7.66	116.93	113.10
3	A1	1449	C	N1-C2-N3	7.66	124.56	119.20
25	BB	928	A	C8-N9-C4	-7.66	102.74	105.80
25	BB	1360	G	C6-C5-N7	7.66	134.99	130.40
25	BB	1559	U	O4'-C1'-N1	7.66	114.33	108.20
25	BB	2429	G	C5'-C4'-O4'	7.66	118.29	109.10
25	BB	2461	A	O4'-C1'-N9	-7.66	102.08	108.20
1	AP	17	U	C6-N1-C2	7.65	125.59	121.00
25	BB	2126	A	C6-N1-C2	-7.65	114.01	118.60
25	BB	2587	A	C5-N7-C8	-7.65	100.07	103.90
1	AP	55	U	C6-N1-C2	-7.65	116.41	121.00
3	A1	47	C	C4'-C3'-C2'	-7.65	94.95	102.60
3	A1	49	U	C5-C6-N1	-7.65	118.87	122.70
3	A1	519	C	C6-N1-C2	-7.65	117.24	120.30
3	A1	811	C	C2-N3-C4	-7.65	116.07	119.90
3	A1	1083	U	C2-N3-C4	-7.65	122.41	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1331	G	N3-C4-C5	-7.65	124.77	128.60
25	BB	163	C	N1-C2-O2	7.65	123.49	118.90
25	BB	1362	C	N1-C2-N3	7.65	124.56	119.20
25	BB	1375	U	O4'-C1'-N1	7.65	114.32	108.20
25	BB	2002	G	N9-C1'-C2'	7.65	123.95	114.00
25	BB	2162	G	C1'-O4'-C4'	-7.65	103.78	109.90
25	BB	2289	G	C6-C5-N7	7.65	134.99	130.40
25	BB	2550	G	C4-C5-N7	-7.65	107.74	110.80
3	A1	389	A	C3'-C2'-C1'	7.65	107.62	101.50
3	A1	777	A	N7-C8-N9	7.65	117.62	113.80
3	A1	976	G	N3-C2-N2	-7.65	114.54	119.90
3	A1	1021	A	O4'-C1'-C2'	7.65	114.49	107.60
3	A1	1166	G	C6-N1-C2	-7.65	120.51	125.10
3	A1	1299	A	N1-C6-N6	-7.65	114.01	118.60
6	AD	120	ARG	NH1-CZ-NH2	-7.65	110.98	119.40
25	BB	723	C	N3-C2-O2	-7.65	116.54	121.90
25	BB	1555	G	C5-C6-O6	-7.65	124.01	128.60
40	BQ	7	ARG	NH1-CZ-NH2	-7.65	110.98	119.40
3	A1	453	G	C8-N9-C4	-7.65	103.34	106.40
3	A1	1177	G	N3-C2-N2	-7.65	114.55	119.90
25	BB	1674	G	C4-C5-N7	-7.65	107.74	110.80
25	BB	2169	A	C2-N3-C4	-7.65	106.78	110.60
25	BB	2566	A	C6-C5-N7	7.65	137.65	132.30
25	BB	113	U	O4'-C4'-C3'	7.65	112.22	106.10
25	BB	549	G	C2-N3-C4	7.65	115.72	111.90
25	BB	647	G	N1-C6-O6	-7.65	115.31	119.90
25	BB	1529	G	C3'-C2'-C1'	-7.65	95.38	101.50
25	BB	1579	A	C5-C6-N1	7.65	121.52	117.70
25	BB	2124	G	N3-C2-N2	-7.65	114.55	119.90
25	BB	2213	U	C2-N3-C4	-7.65	122.41	127.00
25	BB	2409	G	C4-C5-N7	7.65	113.86	110.80
1	AP	5	A	N9-C4-C5	-7.65	102.74	105.80
1	AE	73	A	C1'-O4'-C4'	-7.65	103.78	109.90
3	A1	310	G	N9-C4-C5	7.65	108.46	105.40
3	A1	846	G	C3'-C2'-C1'	-7.65	95.38	101.50
3	A1	987	G	O4'-C1'-N9	7.65	114.32	108.20
3	A1	1353	G	N1-C2-N3	7.65	128.49	123.90
25	BB	2704	C	C4-C5-C6	-7.65	113.58	117.40
3	A1	82	G	O5'-P-OP2	-7.64	98.82	105.70
3	A1	119	A	N3-C4-C5	-7.64	121.45	126.80
3	A1	234	C	O4'-C1'-N1	7.64	114.31	108.20
3	A1	642	A	C5-N7-C8	-7.64	100.08	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	883	C	N1-C2-O2	7.64	123.49	118.90
3	A1	1036	A	N9-C4-C5	7.64	108.86	105.80
25	BB	773	U	C5'-C4'-O4'	7.64	118.27	109.10
25	BB	2228	G	C5-C6-O6	7.64	133.19	128.60
25	BB	2687	U	C6-N1-C2	-7.64	116.41	121.00
39	BP	38	ARG	NE-CZ-NH1	7.64	124.12	120.30
45	BV	33	ARG	NH1-CZ-NH2	-7.64	110.99	119.40
3	A1	902	G	C5-C6-O6	7.64	133.19	128.60
3	A1	1419	G	C4'-C3'-C2'	-7.64	94.96	102.60
25	BB	175	G	O4'-C1'-N9	7.64	114.31	108.20
25	BB	2382	G	N1-C2-N3	7.64	128.49	123.90
25	BB	2655	G	C5-C6-N1	7.64	115.32	111.50
25	BB	2075	U	C5-C6-N1	-7.64	118.88	122.70
3	A1	44	A	O4'-C1'-N9	7.64	114.31	108.20
3	A1	773	G	C4-C5-N7	-7.64	107.74	110.80
24	BA	37	C	C3'-C2'-C1'	7.64	107.61	101.50
25	BB	283	G	C1'-O4'-C4'	-7.64	103.79	109.90
25	BB	389	G	C8-N9-C4	7.64	109.46	106.40
25	BB	1022	G	C4-C5-C6	-7.64	114.22	118.80
25	BB	2226	C	C6-N1-C2	7.64	123.36	120.30
25	BB	2554	U	C4'-C3'-C2'	-7.64	94.96	102.60
1	AE	70	C	N3-C4-C5	7.64	124.95	121.90
25	BB	318	C	N3-C4-N4	-7.64	112.65	118.00
25	BB	1022	G	C1'-O4'-C4'	-7.64	103.79	109.90
25	BB	1070	A	C5-N7-C8	-7.64	100.08	103.90
25	BB	1238	G	N1-C2-N2	-7.64	109.33	116.20
1	AP	28	C	C1'-O4'-C4'	-7.64	103.79	109.90
1	AE	20	G	O4'-C4'-C3'	7.64	112.21	106.10
7	AF	85	TYR	CZ-CE2-CD2	-7.64	112.93	119.80
25	BB	911	A	O4'-C4'-C3'	7.64	112.21	106.10
25	BB	1554	U	N1-C2-N3	7.64	119.48	114.90
25	BB	2491	U	N3-C2-O2	-7.64	116.86	122.20
25	BB	2556	C	P-O5'-C5'	7.64	133.12	120.90
3	A1	203	G	C1'-O4'-C4'	-7.63	103.79	109.90
3	A1	996	A	C6-C5-N7	7.63	137.64	132.30
3	A1	1208	C	N1-C2-N3	7.63	124.54	119.20
3	A1	1382	C	C2-N3-C4	-7.63	116.08	119.90
25	BB	496	G	N3-C4-N9	7.63	130.58	126.00
25	BB	783	A	C2-N3-C4	7.63	114.42	110.60
25	BB	1452	G	C4'-C3'-C2'	-7.63	94.97	102.60
25	BB	1910	G	C5'-C4'-O4'	7.63	118.26	109.10
25	BB	2269	G	C5-C6-N1	7.63	115.32	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2358	A	C5-C6-N6	7.63	129.81	123.70
3	A1	574	A	N1-C2-N3	-7.63	125.48	129.30
25	BB	1540	G	C8-N9-C4	-7.63	103.35	106.40
25	BB	2843	G	C6-N1-C2	7.63	129.68	125.10
1	AA	13	C	C2-N3-C4	-7.63	116.08	119.90
1	AP	61	C	C3'-C2'-C1'	-7.63	95.39	101.50
1	AE	57	G	O4'-C4'-C3'	7.63	112.20	106.10
3	A1	257	G	C8-N9-C4	-7.63	103.35	106.40
25	BB	137	U	O4'-C1'-N1	7.63	114.31	108.20
25	BB	216	A	C5-C6-N1	7.63	121.52	117.70
25	BB	536	G	N7-C8-N9	7.63	116.92	113.10
25	BB	992	C	N3-C2-O2	-7.63	116.56	121.90
25	BB	1692	U	N1-C2-N3	7.63	119.48	114.90
25	BB	2378	A	C4-C5-C6	-7.63	113.19	117.00
31	BH	94	ARG	NE-CZ-NH2	7.63	124.12	120.30
3	A1	1121	U	C2-N3-C4	-7.63	122.42	127.00
3	A1	183	C	C5-C4-N4	-7.63	114.86	120.20
3	A1	264	C	N1-C2-N3	7.63	124.54	119.20
3	A1	538	G	C2-N3-C4	-7.63	108.09	111.90
25	BB	408	G	C4-C5-N7	7.63	113.85	110.80
25	BB	491	G	O4'-C1'-N9	7.63	114.30	108.20
25	BB	674	G	C8-N9-C4	-7.63	103.35	106.40
25	BB	2793	C	C5-C6-N1	-7.63	117.19	121.00
1	AE	65	G	C8-N9-C4	-7.63	103.35	106.40
3	A1	238	A	C4'-C3'-C2'	-7.63	94.97	102.60
25	BB	1	G	C2-N3-C4	7.63	115.71	111.90
25	BB	891	G	C5-C6-N1	7.63	115.31	111.50
25	BB	1198	U	C5-C6-N1	-7.63	118.89	122.70
25	BB	1994	C	C5'-C4'-O4'	7.63	118.25	109.10
25	BB	1516	G	C1'-O4'-C4'	-7.62	103.80	109.90
25	BB	1852	U	N1-C1'-C2'	7.62	123.91	114.00
3	A1	127	G	C8-N9-C4	-7.62	103.35	106.40
3	A1	490	C	C5-C4-N4	-7.62	114.86	120.20
3	A1	712	A	C5-N7-C8	-7.62	100.09	103.90
24	BA	44	G	O4'-C4'-C3'	7.62	112.20	106.10
25	BB	27	G	O4'-C1'-N9	-7.62	102.10	108.20
25	BB	137	U	N1-C2-O2	7.62	128.14	122.80
25	BB	464	U	C5'-C4'-O4'	7.62	118.25	109.10
25	BB	548	G	C5-C6-N1	7.62	115.31	111.50
25	BB	924	G	C5-N7-C8	7.62	108.11	104.30
25	BB	1085	A	C2-N3-C4	7.62	114.41	110.60
25	BB	1965	C	C4'-C3'-C2'	-7.62	94.98	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	203	G	N3-C4-N9	7.62	130.57	126.00
3	A1	466	A	C4-C5-C6	-7.62	113.19	117.00
3	A1	1068	G	O5'-P-OP1	-7.62	98.84	105.70
25	BB	420	C	C5-C4-N4	-7.62	114.87	120.20
25	BB	514	A	O3'-P-O5'	7.62	118.48	104.00
25	BB	866	A	O4'-C4'-C3'	7.62	112.20	106.10
25	BB	1043	C	C5'-C4'-O4'	7.62	118.25	109.10
25	BB	1326	U	N3-C2-O2	-7.62	116.86	122.20
25	BB	2792	A	C4-C5-N7	7.62	114.51	110.70
33	BJ	32	ARG	NH1-CZ-NH2	-7.62	111.02	119.40
12	AK	56	ARG	NH1-CZ-NH2	-7.62	111.02	119.40
25	BB	54	G	C8-N9-C4	-7.62	103.35	106.40
25	BB	2115	G	C2-N3-C4	-7.62	108.09	111.90
1	AP	7	U	C2-N3-C4	-7.62	122.43	127.00
3	A1	28	A	C5'-C4'-C3'	-7.62	103.81	116.00
3	A1	1235	U	N3-C4-O4	7.62	124.73	119.40
20	AU	144	ALA	N-CA-CB	-7.62	99.43	110.10
25	BB	9	G	C2-N3-C4	7.62	115.71	111.90
25	BB	1008	A	C8-N9-C4	7.62	108.85	105.80
25	BB	1768	C	O4'-C4'-C3'	7.62	112.19	106.10
25	BB	1813	G	N7-C8-N9	7.62	116.91	113.10
25	BB	1981	A	N1-C6-N6	-7.62	114.03	118.60
3	A1	173	U	N3-C2-O2	-7.62	116.87	122.20
3	A1	890	G	C6-N1-C2	-7.62	120.53	125.10
25	BB	1630	A	O4'-C1'-C2'	-7.62	98.18	105.80
25	BB	2317	A	N1-C2-N3	-7.62	125.49	129.30
25	BB	2444	G	C3'-C2'-C1'	7.62	107.59	101.50
1	AE	11	C	C1'-O4'-C4'	-7.62	103.81	109.90
3	A1	162	A	N9-C4-C5	-7.62	102.75	105.80
3	A1	452	A	C2-N3-C4	7.62	114.41	110.60
3	A1	586	C	N3-C4-N4	-7.62	112.67	118.00
3	A1	1433	A	C6-C5-N7	7.62	137.63	132.30
25	BB	222	A	N9-C4-C5	7.62	108.85	105.80
25	BB	622	G	C6-C5-N7	7.62	134.97	130.40
25	BB	1446	C	N3-C4-N4	-7.62	112.67	118.00
25	BB	2062	A	C5-N7-C8	-7.62	100.09	103.90
3	A1	197	A	N9-C4-C5	7.61	108.84	105.80
3	A1	389	A	C6-N1-C2	-7.61	114.03	118.60
3	A1	544	G	N9-C1'-C2'	-7.61	103.62	112.00
3	A1	1177	G	C8-N9-C4	-7.61	103.36	106.40
3	A1	1482	G	O4'-C4'-C3'	7.61	112.19	106.10
8	AG	58	ARG	NH1-CZ-NH2	-7.61	111.03	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	70	G	C4-C5-C6	-7.61	114.23	118.80
25	BB	186	G	N1-C6-O6	-7.61	115.33	119.90
25	BB	736	C	P-O3'-C3'	7.61	128.84	119.70
25	BB	1087	G	C4'-C3'-O3'	7.61	128.23	113.00
25	BB	1187	G	O4'-C1'-N9	7.61	114.29	108.20
25	BB	1307	A	C5'-C4'-O4'	7.61	118.24	109.10
25	BB	1392	A	C8-N9-C4	-7.61	102.75	105.80
25	BB	1439	A	C5-C6-N6	7.61	129.79	123.70
25	BB	2114	A	C5-N7-C8	-7.61	100.09	103.90
25	BB	2341	G	C6-N1-C2	-7.61	120.53	125.10
25	BB	2372	U	C4'-C3'-C2'	7.61	110.21	102.60
25	BB	2719	G	C6-N1-C2	-7.61	120.53	125.10
3	A1	58	C	N1-C2-O2	7.61	123.47	118.90
25	BB	299	A	C6-C5-N7	7.61	137.63	132.30
25	BB	1504	A	C5-N7-C8	-7.61	100.09	103.90
25	BB	2158	A	O4'-C1'-N9	7.61	114.29	108.20
25	BB	2789	C	N3-C4-C5	7.61	124.94	121.90
3	A1	90	C	N3-C2-O2	-7.61	116.57	121.90
16	AQ	44	ARG	NE-CZ-NH1	7.61	124.11	120.30
25	BB	958	U	C3'-C2'-C1'	-7.61	95.41	101.50
25	BB	1085	A	C3'-C2'-C1'	7.61	107.59	101.50
25	BB	1283	G	N1-C6-O6	-7.61	115.33	119.90
25	BB	1868	C	N3-C2-O2	-7.61	116.57	121.90
25	BB	2040	G	N9-C4-C5	-7.61	102.36	105.40
25	BB	2162	G	C5'-C4'-O4'	7.61	118.23	109.10
25	BB	2552	U	O4'-C1'-C2'	-7.61	98.19	105.80
25	BB	2552	U	P-O5'-C5'	7.61	133.08	120.90
48	BY	83	ARG	NE-CZ-NH2	7.61	124.11	120.30
3	A1	1249	C	C6-N1-C2	-7.61	117.26	120.30
3	A1	1485	U	O4'-C1'-N1	7.61	114.29	108.20
25	BB	1099	G	C5-C6-N1	7.61	115.31	111.50
25	BB	2288	A	C8-N9-C4	7.61	108.84	105.80
25	BB	2633	G	N1-C2-N3	7.61	128.47	123.90
1	AP	71	G	C4-C5-C6	-7.61	114.24	118.80
1	AE	69	U	O4'-C1'-N1	7.61	114.29	108.20
3	A1	201	G	C5-C6-N1	7.61	115.30	111.50
3	A1	319	G	N9-C1'-C2'	-7.61	103.63	112.00
3	A1	490	C	N3-C4-C5	-7.61	118.86	121.90
3	A1	1052	U	C5-C6-N1	-7.61	118.90	122.70
3	A1	1359	C	C5-C6-N1	-7.61	117.20	121.00
25	BB	275	C	C5'-C4'-C3'	-7.61	103.83	116.00
25	BB	984	A	N9-C4-C5	-7.61	102.76	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1413	A	C2-N3-C4	7.61	114.40	110.60
25	BB	1621	U	C4-C5-C6	7.61	124.26	119.70
25	BB	1933	G	N3-C4-C5	-7.61	124.80	128.60
25	BB	2333	A	C8-N9-C4	-7.61	102.76	105.80
25	BB	2482	A	C8-N9-C4	-7.61	102.76	105.80
1	AA	6	U	N3-C4-O4	-7.61	114.08	119.40
3	A1	377	G	C6-C5-N7	7.61	134.96	130.40
3	A1	963	G	N3-C2-N2	-7.61	114.58	119.90
3	A1	1289	A	N1-C2-N3	-7.61	125.50	129.30
3	A1	1376	U	C5-C4-O4	-7.61	121.34	125.90
3	A1	1470	U	C1'-O4'-C4'	-7.61	103.81	109.90
3	A1	1472	U	C1'-O4'-C4'	-7.61	103.81	109.90
22	AW	98	ARG	NE-CZ-NH1	7.61	124.10	120.30
25	BB	231	A	C4-C5-C6	-7.61	113.20	117.00
25	BB	373	U	C2-N3-C4	-7.61	122.44	127.00
25	BB	489	G	O4'-C1'-N9	7.61	114.28	108.20
25	BB	541	A	C3'-C2'-C1'	7.61	107.58	101.50
25	BB	753	A	C6-C5-N7	7.61	137.62	132.30
25	BB	908	C	C1'-O4'-C4'	-7.61	103.82	109.90
25	BB	1407	G	O4'-C1'-N9	7.61	114.28	108.20
25	BB	1724	G	C6-N1-C2	-7.61	120.54	125.10
25	BB	1899	A	O4'-C1'-N9	7.61	114.28	108.20
25	BB	2187	U	N1-C2-N3	7.61	119.46	114.90
3	A1	353	A	O4'-C1'-N9	7.60	114.28	108.20
3	A1	1069	C	N3-C4-C5	7.60	124.94	121.90
25	BB	2865	U	N1-C2-N3	7.60	119.46	114.90
3	A1	490	C	N3-C2-O2	-7.60	116.58	121.90
3	A1	1310	G	C1'-O4'-C4'	7.60	115.98	109.90
16	AQ	6	ARG	NH1-CZ-NH2	-7.60	111.04	119.40
24	BA	24	G	C5-C6-N1	7.60	115.30	111.50
25	BB	58	G	C8-N9-C4	-7.60	103.36	106.40
25	BB	245	G	C6-N1-C2	-7.60	120.54	125.10
25	BB	1297	C	C6-N1-C2	-7.60	117.26	120.30
25	BB	2047	C	N1-C2-N3	7.60	124.52	119.20
25	BB	2620	C	C6-N1-C2	-7.60	117.26	120.30
31	BH	2	ASP	CB-CG-OD1	-7.60	111.46	118.30
3	A1	506	G	C4'-C3'-O3'	7.60	128.20	113.00
3	A1	1242	G	C6-C5-N7	7.60	134.96	130.40
14	AN	9	ARG	NE-CZ-NH1	7.60	124.10	120.30
25	BB	481	G	C5'-C4'-O4'	7.60	118.22	109.10
25	BB	1311	G	N3-C2-N2	7.60	125.22	119.90
25	BB	2431	U	C5-C6-N1	-7.60	118.90	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	286	C	C5-C6-N1	-7.60	117.20	121.00
3	A1	1039	G	C3'-C2'-C1'	-7.60	95.42	101.50
3	A1	1519	A	C6-N1-C2	7.60	123.16	118.60
25	BB	96	C	C2-N3-C4	-7.60	116.10	119.90
25	BB	453	A	N9-C4-C5	7.60	108.84	105.80
25	BB	539	G	C5-C6-N1	7.60	115.30	111.50
25	BB	1496	A	C4-C5-C6	-7.60	113.20	117.00
25	BB	1860	G	C5-C6-N1	7.60	115.30	111.50
25	BB	2115	G	C6-N1-C2	-7.60	120.54	125.10
25	BB	2199	A	C4-C5-N7	7.60	114.50	110.70
25	BB	2859	G	C6-N1-C2	-7.60	120.54	125.10
49	BZ	105	ARG	NE-CZ-NH2	-7.60	116.50	120.30
53	B4	51	ARG	CD-NE-CZ	7.60	134.24	123.60
1	AE	14	A	C1'-O4'-C4'	-7.60	103.82	109.90
3	A1	212	G	N1-C2-N3	-7.60	119.34	123.90
24	BA	45	A	C4'-C3'-C2'	-7.60	95.00	102.60
25	BB	1122	G	N3-C4-C5	-7.60	124.80	128.60
25	BB	1266	G	N9-C4-C5	-7.60	102.36	105.40
25	BB	1520	U	O4'-C1'-N1	7.60	114.28	108.20
25	BB	1967	C	N1-C2-O2	7.60	123.46	118.90
25	BB	2054	A	C5-C6-N6	7.60	129.78	123.70
25	BB	2149	U	N1-C2-N3	7.60	119.46	114.90
26	BC	93	ARG	CD-NE-CZ	7.60	134.24	123.60
3	A1	1021	A	C6-C5-N7	7.60	137.62	132.30
25	BB	96	C	C4-C5-C6	7.60	121.20	117.40
25	BB	1396	U	N3-C2-O2	-7.60	116.88	122.20
25	BB	2108	A	C6-C5-N7	7.60	137.62	132.30
25	BB	2200	C	C5-C6-N1	-7.60	117.20	121.00
25	BB	2219	U	N3-C2-O2	-7.60	116.88	122.20
3	A1	865	A	C5-C6-N6	7.59	129.78	123.70
3	A1	1304	G	N1-C6-O6	-7.59	115.34	119.90
25	BB	446	G	N1-C2-N3	7.59	128.46	123.90
25	BB	848	C	C3'-C2'-C1'	7.59	107.58	101.50
25	BB	1732	C	C2-N3-C4	-7.59	116.10	119.90
25	BB	2345	G	C1'-O4'-C4'	-7.59	103.82	109.90
37	BN	211	ARG	NH1-CZ-NH2	-7.59	111.05	119.40
3	A1	728	A	C3'-C2'-C1'	7.59	107.58	101.50
25	BB	1531	C	N1-C2-N3	7.59	124.52	119.20
25	BB	1890	A	C4-C5-N7	-7.59	106.90	110.70
25	BB	2730	C	O4'-C1'-N1	-7.59	102.12	108.20
2	AM	15	U	C5-C6-N1	-7.59	118.91	122.70
3	A1	778	G	N1-C2-N3	7.59	128.46	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	903	G	N9-C4-C5	7.59	108.44	105.40
3	A1	1350	A	C3'-C2'-C1'	7.59	107.57	101.50
3	A1	1468	A	C4-C5-C6	-7.59	113.20	117.00
21	AV	127	TYR	CB-CG-CD2	-7.59	116.44	121.00
24	BA	35	C	N3-C2-O2	-7.59	116.59	121.90
25	BB	1198	U	C2-N3-C4	-7.59	122.44	127.00
25	BB	1213	A	C5-N7-C8	-7.59	100.10	103.90
25	BB	1878	G	N3-C4-N9	-7.59	121.45	126.00
25	BB	1906	G	C5-C6-N1	7.59	115.30	111.50
25	BB	1979	U	N3-C2-O2	-7.59	116.89	122.20
25	BB	1994	C	C5-C6-N1	-7.59	117.20	121.00
25	BB	2439	A	O4'-C1'-N9	7.59	114.27	108.20
25	BB	2798	U	O5'-P-OP2	-7.59	98.87	105.70
3	A1	653	U	N3-C2-O2	-7.59	116.89	122.20
3	A1	774	G	C8-N9-C4	-7.59	103.36	106.40
3	A1	1522	U	C5'-C4'-O4'	7.59	118.21	109.10
25	BB	348	A	N1-C2-N3	-7.59	125.50	129.30
25	BB	663	G	C2-N3-C4	7.59	115.69	111.90
25	BB	1028	A	C6-C5-N7	7.59	137.61	132.30
25	BB	1765	U	C2-N3-C4	-7.59	122.45	127.00
25	BB	2621	G	O4'-C1'-N9	7.59	114.27	108.20
25	BB	1237	A	C6-N1-C2	-7.59	114.05	118.60
25	BB	1746	A	N7-C8-N9	7.59	117.59	113.80
25	BB	2327	A	C6-C5-N7	7.59	137.61	132.30
3	A1	972	C	N3-C4-C5	7.59	124.94	121.90
25	BB	30	G	N3-C4-C5	-7.59	124.81	128.60
25	BB	545	U	C5-C6-N1	-7.59	118.91	122.70
25	BB	997	G	C8-N9-C4	-7.59	103.36	106.40
25	BB	1362	C	N3-C2-O2	-7.59	116.59	121.90
25	BB	1701	A	C6-N1-C2	7.59	123.15	118.60
25	BB	1841	U	N3-C4-O4	-7.59	114.09	119.40
25	BB	2866	U	N3-C2-O2	-7.59	116.89	122.20
3	A1	43	C	C5-C4-N4	7.58	125.51	120.20
25	BB	2694	G	O4'-C1'-N9	-7.58	102.13	108.20
3	A1	515	G	C4-C5-C6	-7.58	114.25	118.80
3	A1	524	G	C4'-C3'-C2'	-7.58	95.02	102.60
25	BB	608	A	C6-C5-N7	7.58	137.61	132.30
25	BB	1902	C	N1-C2-O2	7.58	123.45	118.90
25	BB	1954	G	N3-C4-C5	-7.58	124.81	128.60
25	BB	2205	A	C5-C6-N1	7.58	121.49	117.70
1	AP	75	C	N3-C4-N4	-7.58	112.69	118.00
3	A1	270	A	N9-C4-C5	-7.58	102.77	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1174	G	N1-C6-O6	-7.58	115.35	119.90
3	A1	1365	G	C3'-C2'-C1'	7.58	107.57	101.50
12	AK	42	ARG	NH1-CZ-NH2	-7.58	111.06	119.40
25	BB	1267	U	N1-C2-O2	7.58	128.11	122.80
25	BB	1317	G	N9-C4-C5	7.58	108.43	105.40
34	BK	35	PHE	CB-CG-CD1	7.58	126.11	120.80
24	BA	8	C	C4-C5-C6	-7.58	113.61	117.40
25	BB	795	C	N3-C2-O2	-7.58	116.59	121.90
25	BB	1470	A	N1-C6-N6	-7.58	114.05	118.60
25	BB	2683	C	O4'-C1'-N1	7.58	114.26	108.20
1	AE	39	U	C3'-C2'-C1'	7.58	107.56	101.50
3	A1	105	G	C4-C5-C6	7.58	123.35	118.80
3	A1	701	U	C5-C4-O4	7.58	130.45	125.90
3	A1	779	C	C1'-O4'-C4'	7.58	115.96	109.90
25	BB	184	C	N1-C2-O2	7.58	123.45	118.90
25	BB	196	A	C5'-C4'-C3'	-7.58	103.88	116.00
25	BB	787	C	C2-N3-C4	-7.58	116.11	119.90
25	BB	1018	U	N1-C2-O2	-7.58	117.50	122.80
25	BB	1401	G	N1-C2-N3	7.58	128.45	123.90
25	BB	1518	C	N1-C2-O2	7.58	123.45	118.90
25	BB	1587	G	C6-N1-C2	-7.58	120.55	125.10
25	BB	2583	G	C5-C6-O6	7.58	133.15	128.60
25	BB	2672	U	O4'-C4'-C3'	7.58	112.16	106.10
25	BB	2738	A	C5-N7-C8	-7.58	100.11	103.90
25	BB	2798	U	C5-C6-N1	-7.58	118.91	122.70
3	A1	593	U	C6-N1-C2	-7.58	116.45	121.00
25	BB	811	U	C1'-O4'-C4'	-7.58	103.84	109.90
25	BB	1134	A	C6-N1-C2	-7.58	114.05	118.60
25	BB	2477	U	C2-N3-C4	-7.58	122.45	127.00
1	AP	21	A	C2-N3-C4	7.58	114.39	110.60
1	AE	8	U	C5-C6-N1	-7.58	118.91	122.70
3	A1	915	A	C2-N3-C4	7.58	114.39	110.60
3	A1	1478	U	C6-N1-C2	-7.58	116.45	121.00
24	BA	91	C	N1-C2-N3	7.58	124.50	119.20
25	BB	100	U	O4'-C1'-N1	7.58	114.26	108.20
25	BB	147	C	N1-C2-O2	7.58	123.45	118.90
25	BB	2645	G	C1'-O4'-C4'	-7.58	103.84	109.90
25	BB	418	C	C3'-C2'-C1'	-7.57	95.44	101.50
25	BB	715	A	C6-C5-N7	7.57	137.60	132.30
25	BB	896	A	C5-C6-N6	-7.57	117.64	123.70
25	BB	1799	G	O4'-C4'-C3'	7.57	112.16	106.10
25	BB	1969	A	C6-N1-C2	-7.57	114.06	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2418	A	N9-C4-C5	-7.57	102.77	105.80
25	BB	2490	G	C3'-C2'-C1'	7.57	107.56	101.50
25	BB	2503	A	C2-N3-C4	7.57	114.39	110.60
25	BB	2659	G	C6-C5-N7	7.57	134.94	130.40
25	BB	2721	A	C6-N1-C2	-7.57	114.06	118.60
3	A1	360	G	N1-C2-N3	7.57	128.44	123.90
3	A1	960	U	C3'-C2'-C1'	-7.57	95.44	101.50
3	A1	1093	A	C4-C5-C6	-7.57	113.22	117.00
24	BA	5	U	C1'-O4'-C4'	-7.57	103.84	109.90
25	BB	422	A	C5-N7-C8	-7.57	100.11	103.90
25	BB	1033	U	N1-C2-O2	7.57	128.10	122.80
25	BB	1713	A	C3'-C2'-C1'	7.57	107.56	101.50
25	BB	1999	C	O4'-C4'-C3'	7.57	112.16	106.10
25	BB	2559	C	N3-C4-C5	7.57	124.93	121.90
50	B1	117	ARG	NE-CZ-NH2	7.57	124.08	120.30
1	AA	14	A	C6-N1-C2	-7.57	114.06	118.60
3	A1	370	C	N3-C4-N4	-7.57	112.70	118.00
15	AO	131	ARG	NE-CZ-NH2	-7.57	116.52	120.30
25	BB	313	G	O4'-C1'-N9	7.57	114.26	108.20
25	BB	879	G	C5-N7-C8	-7.57	100.52	104.30
25	BB	1233	C	N1-C2-O2	7.57	123.44	118.90
3	A1	12	U	N1-C1'-C2'	7.57	123.84	114.00
3	A1	757	U	C5-C6-N1	-7.57	118.92	122.70
25	BB	305	C	N1-C2-O2	7.57	123.44	118.90
25	BB	374	A	C5-C6-N1	7.57	121.48	117.70
25	BB	497	A	C5-N7-C8	-7.57	100.12	103.90
25	BB	693	A	O4'-C4'-C3'	7.57	112.16	106.10
25	BB	904	G	C5-C6-N1	7.57	115.28	111.50
25	BB	1623	G	N7-C8-N9	7.57	116.88	113.10
25	BB	2062	A	N3-C4-C5	7.57	132.10	126.80
25	BB	2586	U	C2-N3-C4	-7.57	122.46	127.00
25	BB	2898	U	C4'-C3'-C2'	-7.57	95.03	102.60
3	A1	572	A	N9-C1'-C2'	-7.57	103.68	112.00
3	A1	812	G	C5-C6-O6	7.57	133.14	128.60
25	BB	314	C	N3-C2-O2	-7.57	116.60	121.90
25	BB	831	G	O4'-C1'-N9	7.57	114.25	108.20
25	BB	1114	C	C5'-C4'-C3'	-7.57	103.90	116.00
25	BB	1148	U	N3-C4-O4	-7.57	114.10	119.40
25	BB	1311	G	N1-C2-N2	-7.57	109.39	116.20
25	BB	1460	U	N1-C2-N3	7.57	119.44	114.90
25	BB	1877	A	O4'-C1'-N9	7.57	114.25	108.20
25	BB	2426	A	N1-C6-N6	-7.57	114.06	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2877	G	C5-N7-C8	-7.57	100.52	104.30
3	A1	842	U	C1'-O4'-C4'	-7.56	103.85	109.90
3	A1	1034	G	C5-C6-N1	7.56	115.28	111.50
3	A1	1473	G	C2-N3-C4	7.56	115.68	111.90
24	BA	7	G	N3-C4-N9	7.56	130.54	126.00
25	BB	255	A	C6-N1-C2	-7.56	114.06	118.60
25	BB	420	C	C2-N3-C4	-7.56	116.12	119.90
25	BB	2722	G	C8-N9-C4	-7.56	103.37	106.40
3	A1	203	G	C5-C6-O6	-7.56	124.06	128.60
3	A1	763	G	N3-C4-C5	-7.56	124.82	128.60
14	AN	42	ASP	CB-CG-OD2	7.56	125.11	118.30
25	BB	385	C	C5-C4-N4	7.56	125.49	120.20
25	BB	954	G	C5'-C4'-O4'	7.56	118.17	109.10
25	BB	1046	A	N7-C8-N9	-7.56	110.02	113.80
25	BB	1346	G	C5-C6-N1	7.56	115.28	111.50
25	BB	2624	G	C5-C6-O6	7.56	133.14	128.60
22	AW	44	ARG	NE-CZ-NH2	-7.56	116.52	120.30
25	BB	176	A	C6-C5-N7	7.56	137.59	132.30
25	BB	2583	G	C5-N7-C8	-7.56	100.52	104.30
1	AP	14	A	C6-N1-C2	-7.56	114.06	118.60
3	A1	74	A	C4-C5-C6	-7.56	113.22	117.00
3	A1	849	G	C4-C5-N7	7.56	113.82	110.80
3	A1	892	A	C3'-C2'-C1'	7.56	107.55	101.50
3	A1	1028	C	C4'-C3'-C2'	-7.56	95.04	102.60
3	A1	1246	A	C5-N7-C8	-7.56	100.12	103.90
3	A1	1350	A	C6-C5-N7	7.56	137.59	132.30
25	BB	1325	U	O5'-P-OP1	-7.56	98.90	105.70
25	BB	1721	G	C3'-C2'-C1'	7.56	107.55	101.50
25	BB	1840	G	C5-N7-C8	-7.56	100.52	104.30
25	BB	1949	G	N3-C4-C5	-7.56	124.82	128.60
25	BB	2095	A	O4'-C1'-N9	7.56	114.25	108.20
25	BB	2590	A	C5-C6-N6	7.56	129.75	123.70
27	BD	105	ARG	NE-CZ-NH1	-7.56	116.52	120.30
28	BE	2	ARG	NE-CZ-NH1	7.56	124.08	120.30
3	A1	624	C	N3-C4-N4	-7.56	112.71	118.00
25	BB	83	A	C8-N9-C4	-7.56	102.78	105.80
25	BB	471	A	C5-C6-N1	7.56	121.48	117.70
25	BB	776	G	N3-C4-C5	-7.56	124.82	128.60
25	BB	839	U	N1-C2-N3	7.56	119.43	114.90
25	BB	941	A	C5-C6-N6	7.56	129.75	123.70
25	BB	1037	G	N3-C2-N2	-7.56	114.61	119.90
25	BB	1411	U	C5-C6-N1	-7.56	118.92	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2067	G	C2-N3-C4	7.56	115.68	111.90
25	BB	2401	U	N3-C4-C5	7.56	119.13	114.60
48	BY	59	ARG	NH1-CZ-NH2	-7.56	111.09	119.40
25	BB	46	G	N1-C6-O6	-7.56	115.37	119.90
25	BB	75	G	N1-C2-N3	7.56	128.43	123.90
25	BB	640	C	C5-C6-N1	-7.56	117.22	121.00
25	BB	1279	G	N9-C1'-C2'	-7.56	103.69	112.00
33	BJ	91	ARG	NH1-CZ-NH2	-7.56	111.09	119.40
3	A1	497	G	C2-N3-C4	7.55	115.68	111.90
3	A1	667	G	N7-C8-N9	7.55	116.88	113.10
3	A1	1202	U	C5-C6-N1	-7.55	118.92	122.70
25	BB	36	G	C5-N7-C8	-7.55	100.52	104.30
25	BB	210	C	N1-C2-N3	7.55	124.49	119.20
25	BB	500	G	N3-C4-C5	-7.55	124.82	128.60
25	BB	959	A	C4-C5-C6	-7.55	113.22	117.00
25	BB	1915	U	C1'-O4'-C4'	-7.55	103.86	109.90
25	BB	2114	A	C5'-C4'-C3'	-7.55	103.91	116.00
25	BB	2874	C	C5'-C4'-O4'	-7.55	100.04	109.10
3	A1	152	A	C6-C5-N7	7.55	137.59	132.30
3	A1	270	A	N3-C4-N9	7.55	133.44	127.40
3	A1	465	A	N1-C6-N6	-7.55	114.07	118.60
25	BB	2818	U	N1-C2-N3	7.55	119.43	114.90
1	AP	42	G	N1-C2-N3	7.55	128.43	123.90
3	A1	476	U	C6-N1-C2	-7.55	116.47	121.00
3	A1	540	G	C4-C5-N7	7.55	113.82	110.80
3	A1	984	C	N3-C2-O2	-7.55	116.61	121.90
3	A1	1165	U	O4'-C1'-N1	7.55	114.24	108.20
3	A1	1332	A	C4'-C3'-C2'	-7.55	95.05	102.60
24	BA	2	G	N1-C2-N3	7.55	128.43	123.90
24	BA	10	G	N1-C6-O6	-7.55	115.37	119.90
25	BB	733	G	N3-C4-N9	7.55	130.53	126.00
25	BB	797	G	OP1-P-OP2	-7.55	108.27	119.60
25	BB	800	A	C5-C6-N6	7.55	129.74	123.70
25	BB	1144	A	N1-C2-N3	-7.55	125.52	129.30
25	BB	1763	G	N3-C4-C5	-7.55	124.82	128.60
25	BB	1840	G	N1-C6-O6	-7.55	115.37	119.90
3	A1	141	G	N1-C2-N3	-7.55	119.37	123.90
3	A1	269	C	N3-C2-O2	-7.55	116.61	121.90
3	A1	361	G	N9-C4-C5	-7.55	102.38	105.40
3	A1	493	A	C2-N3-C4	7.55	114.38	110.60
3	A1	654	G	C5-C6-O6	7.55	133.13	128.60
25	BB	945	A	C5-N7-C8	-7.55	100.12	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1345	C	O4'-C1'-N1	7.55	114.24	108.20
25	BB	1852	U	C3'-C2'-C1'	-7.55	95.46	101.50
25	BB	2010	G	C6-N1-C2	-7.55	120.57	125.10
3	A1	459	A	C5-C6-N1	7.55	121.47	117.70
3	A1	532	A	C4-C5-C6	-7.55	113.23	117.00
25	BB	388	G	N7-C8-N9	7.55	116.87	113.10
25	BB	2786	U	O5'-P-OP2	-7.55	98.91	105.70
1	AA	54	U	N3-C2-O2	-7.55	116.92	122.20
3	A1	389	A	C5-C6-N6	7.55	129.74	123.70
3	A1	951	G	N9-C4-C5	7.55	108.42	105.40
3	A1	1053	G	P-O3'-C3'	7.55	128.75	119.70
25	BB	1500	G	C3'-C2'-C1'	-7.55	95.46	101.50
25	BB	1522	A	C5-N7-C8	-7.55	100.13	103.90
25	BB	1998	A	P-O3'-C3'	7.55	128.75	119.70
25	BB	2541	A	N9-C4-C5	-7.55	102.78	105.80
1	AA	62	A	N7-C8-N9	7.54	117.57	113.80
1	AP	63	C	N3-C4-N4	-7.54	112.72	118.00
3	A1	395	C	N3-C4-N4	-7.54	112.72	118.00
3	A1	479	U	N1-C2-N3	7.54	119.43	114.90
3	A1	610	U	N1-C2-O2	7.54	128.08	122.80
3	A1	1495	U	C4-C5-C6	7.54	124.23	119.70
17	AR	3	TYR	CG-CD1-CE1	-7.54	115.26	121.30
25	BB	1504	A	N7-C8-N9	7.54	117.57	113.80
25	BB	1664	A	C5-C6-N1	7.54	121.47	117.70
25	BB	1793	C	C6-N1-C2	-7.54	117.28	120.30
1	AE	58	A	C8-N9-C4	-7.54	102.78	105.80
3	A1	47	C	C5'-C4'-C3'	-7.54	103.93	116.00
16	AQ	46	ARG	NE-CZ-NH1	7.54	124.07	120.30
25	BB	401	A	C5-C6-N6	7.54	129.73	123.70
25	BB	955	U	N1-C2-N3	7.54	119.43	114.90
25	BB	1040	A	O4'-C4'-C3'	7.54	112.14	106.10
25	BB	2223	G	N1-C2-N3	7.54	128.43	123.90
25	BB	2229	U	C5-C6-N1	-7.54	118.93	122.70
25	BB	2235	G	N3-C4-C5	7.54	132.37	128.60
25	BB	2812	G	N1-C6-O6	-7.54	115.37	119.90
3	A1	134	G	O4'-C4'-C3'	7.54	112.13	106.10
3	A1	283	U	O4'-C1'-N1	7.54	114.23	108.20
3	A1	472	U	N3-C4-C5	-7.54	110.08	114.60
3	A1	540	G	C5-N7-C8	-7.54	100.53	104.30
3	A1	742	G	C2-N3-C4	7.54	115.67	111.90
25	BB	461	C	C5'-C4'-O4'	7.54	118.15	109.10
25	BB	1126	A	C6-C5-N7	7.54	137.58	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1446	C	C6-N1-C2	-7.54	117.28	120.30
25	BB	2215	C	C5-C4-N4	-7.54	114.92	120.20
25	BB	2541	A	N1-C2-N3	-7.54	125.53	129.30
25	BB	2721	A	N9-C4-C5	7.54	108.82	105.80
40	BQ	52	ARG	NE-CZ-NH1	7.54	124.07	120.30
3	A1	1252	A	C6-N1-C2	-7.54	114.08	118.60
25	BB	337	C	C5-C6-N1	-7.54	117.23	121.00
25	BB	1546	G	C4-C5-C6	-7.54	114.28	118.80
25	BB	2587	A	C4-C5-C6	-7.54	113.23	117.00
25	BB	2876	G	C8-N9-C4	-7.54	103.38	106.40
1	AE	20	G	N3-C4-N9	7.54	130.52	126.00
3	A1	28	A	N1-C2-N3	-7.54	125.53	129.30
3	A1	117	G	N3-C2-N2	-7.54	114.62	119.90
3	A1	1195	C	C2-N3-C4	-7.54	116.13	119.90
3	A1	1408	A	C4-C5-N7	-7.54	106.93	110.70
24	BA	84	G	C2-N3-C4	7.54	115.67	111.90
25	BB	15	G	C5-C6-O6	-7.54	124.08	128.60
25	BB	43	G	O4'-C1'-N9	7.54	114.23	108.20
25	BB	87	U	O5'-P-OP2	-7.54	98.92	105.70
25	BB	159	G	C5-C6-N1	7.54	115.27	111.50
25	BB	222	A	O4'-C1'-N9	7.54	114.23	108.20
25	BB	425	G	O4'-C1'-N9	7.54	114.23	108.20
25	BB	2675	A	N7-C8-N9	7.54	117.57	113.80
36	BM	6	ARG	NE-CZ-NH1	7.54	124.07	120.30
3	A1	809	G	C5-C6-O6	7.54	133.12	128.60
25	BB	59	U	N3-C2-O2	-7.54	116.92	122.20
25	BB	1524	G	C1'-O4'-C4'	7.54	115.93	109.90
25	BB	2823	A	N1-C2-N3	-7.54	125.53	129.30
1	AA	19	G	C5-C6-N1	7.54	115.27	111.50
1	AE	36	A	C1'-O4'-C4'	7.54	115.93	109.90
3	A1	24	U	C6-N1-C2	-7.54	116.48	121.00
3	A1	804	U	N1-C2-O2	7.54	128.07	122.80
3	A1	1019	A	C4-C5-C6	-7.54	113.23	117.00
3	A1	1026	G	C2-N3-C4	7.54	115.67	111.90
3	A1	1222	G	N9-C4-C5	-7.54	102.39	105.40
25	BB	20	C	N3-C4-N4	-7.54	112.72	118.00
25	BB	187	G	C5-C6-N1	7.54	115.27	111.50
25	BB	231	A	C5'-C4'-O4'	-7.54	100.06	109.10
25	BB	281	C	N3-C2-O2	-7.54	116.62	121.90
25	BB	928	A	C4-C5-C6	-7.54	113.23	117.00
25	BB	1952	A	C5-C6-N1	7.54	121.47	117.70
25	BB	1999	C	N1-C2-O2	7.54	123.42	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2503	A	N7-C8-N9	7.54	117.57	113.80
25	BB	2658	C	C1'-O4'-C4'	7.54	115.93	109.90
3	A1	25	C	C6-N1-C2	-7.53	117.29	120.30
3	A1	378	G	O4'-C1'-C2'	7.53	114.38	107.60
3	A1	668	G	C4-C5-N7	-7.53	107.79	110.80
3	A1	694	A	C5-C6-N1	7.53	121.47	117.70
3	A1	875	U	C4-C5-C6	7.53	124.22	119.70
3	A1	1265	C	N3-C4-C5	7.53	124.91	121.90
25	BB	377	G	C5-C6-N1	7.53	115.27	111.50
25	BB	928	A	C5-C6-N6	7.53	129.73	123.70
25	BB	1119	U	N1-C2-N3	7.53	119.42	114.90
25	BB	1972	G	O4'-C1'-N9	7.53	114.23	108.20
25	BB	2005	A	C8-N9-C4	7.53	108.81	105.80
25	BB	2212	A	C6-C5-N7	7.53	137.57	132.30
25	BB	2262	U	C5-C6-N1	-7.53	118.93	122.70
25	BB	2366	A	O4'-C1'-N9	-7.53	102.17	108.20
25	BB	2601	C	C6-N1-C2	-7.53	117.29	120.30
25	BB	2797	U	C4-C5-C6	7.53	124.22	119.70
3	A1	1310	G	C8-N9-C4	-7.53	103.39	106.40
24	BA	94	A	C2-N3-C4	7.53	114.37	110.60
25	BB	307	G	N1-C6-O6	-7.53	115.38	119.90
25	BB	859	G	C2-N3-C4	-7.53	108.13	111.90
25	BB	2216	G	C6-N1-C2	-7.53	120.58	125.10
25	BB	2692	G	N1-C2-N3	7.53	128.42	123.90
1	AE	65	G	C2-N3-C4	7.53	115.67	111.90
3	A1	254	G	C5-C6-O6	-7.53	124.08	128.60
3	A1	287	U	C5'-C4'-O4'	7.53	118.14	109.10
9	AH	67	ASP	CB-CG-OD2	7.53	125.08	118.30
25	BB	52	A	C4-C5-N7	-7.53	106.93	110.70
25	BB	367	G	N3-C4-C5	-7.53	124.83	128.60
25	BB	376	G	N7-C8-N9	7.53	116.86	113.10
25	BB	1856	U	N1-C2-O2	7.53	128.07	122.80
25	BB	2819	G	O4'-C1'-C2'	-7.53	98.27	105.80
1	AA	23	A	C5-C6-N1	7.53	121.46	117.70
3	A1	470	C	N1-C2-N3	7.53	124.47	119.20
25	BB	520	G	C6-N1-C2	-7.53	120.58	125.10
25	BB	922	C	N3-C4-N4	-7.53	112.73	118.00
25	BB	1247	A	N1-C2-N3	-7.53	125.54	129.30
25	BB	1314	C	N1-C2-O2	7.53	123.42	118.90
25	BB	1881	C	N1-C2-O2	7.53	123.42	118.90
25	BB	2077	A	C4-C5-C6	-7.53	113.24	117.00
3	A1	91	U	C5-C4-O4	7.53	130.42	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	217	C	N3-C4-C5	7.53	124.91	121.90
24	BA	76	G	N3-C2-N2	-7.53	114.63	119.90
25	BB	490	C	N3-C4-C5	7.53	124.91	121.90
25	BB	563	A	C5-N7-C8	-7.53	100.14	103.90
25	BB	865	C	C2-N3-C4	-7.53	116.14	119.90
25	BB	2505	G	O4'-C1'-C2'	-7.53	98.27	105.80
1	AA	16	U	N1-C2-N3	7.53	119.42	114.90
3	A1	569	C	N3-C4-N4	-7.53	112.73	118.00
3	A1	655	A	C5-C6-N6	7.53	129.72	123.70
3	A1	1393	U	C5-C6-N1	-7.53	118.94	122.70
6	AD	82	ARG	NH1-CZ-NH2	-7.53	111.12	119.40
25	BB	710	U	C2-N3-C4	-7.53	122.48	127.00
25	BB	902	C	C5-C6-N1	-7.53	117.24	121.00
25	BB	1093	G	C5-C6-N1	7.53	115.26	111.50
25	BB	1433	A	N9-C4-C5	-7.53	102.79	105.80
25	BB	1699	G	C6-C5-N7	-7.53	125.88	130.40
25	BB	1729	U	C5-C6-N1	-7.53	118.94	122.70
25	BB	1942	C	C6-N1-C2	7.53	123.31	120.30
25	BB	2101	A	N7-C8-N9	7.53	117.56	113.80
25	BB	2238	G	C4-C5-N7	-7.53	107.79	110.80
25	BB	2432	A	C5-C6-N6	7.53	129.72	123.70
25	BB	2527	C	C6-N1-C2	-7.53	117.29	120.30
25	BB	2583	G	N3-C4-C5	-7.53	124.84	128.60
25	BB	2795	C	N3-C4-N4	-7.53	112.73	118.00
3	A1	944	G	N1-C2-N2	-7.52	109.43	116.20
25	BB	1699	G	C4-C5-N7	7.52	113.81	110.80
25	BB	1784	A	C5-C6-N1	7.52	121.46	117.70
25	BB	1870	C	C2-N3-C4	-7.52	116.14	119.90
1	AP	1	G	C4-C5-N7	7.52	113.81	110.80
1	AE	71	G	O4'-C1'-N9	7.52	114.22	108.20
3	A1	6	G	C6-N1-C2	-7.52	120.59	125.10
3	A1	140	U	C2-N3-C4	7.52	131.51	127.00
3	A1	277	C	C5-C6-N1	-7.52	117.24	121.00
3	A1	369	G	N1-C2-N2	-7.52	109.43	116.20
3	A1	627	G	N3-C2-N2	-7.52	114.63	119.90
3	A1	926	G	N1-C2-N2	7.52	122.97	116.20
3	A1	1204	A	C6-N1-C2	-7.52	114.09	118.60
3	A1	1356	G	C5-C6-N1	7.52	115.26	111.50
25	BB	390	U	C5-C6-N1	-7.52	118.94	122.70
25	BB	1251	C	C2'-C3'-O3'	7.52	126.05	109.50
25	BB	1733	G	C4-C5-N7	-7.52	107.79	110.80
25	BB	1751	U	C1'-O4'-C4'	-7.52	103.88	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2252	G	C8-N9-C4	-7.52	103.39	106.40
25	BB	2281	A	C6-C5-N7	7.52	137.57	132.30
25	BB	2373	G	N1-C2-N3	7.52	128.41	123.90
51	B2	70	ARG	CD-NE-CZ	7.52	134.13	123.60
3	A1	1403	C	N3-C2-O2	-7.52	116.64	121.90
28	BE	123	ARG	CD-NE-CZ	7.52	134.13	123.60
3	A1	310	G	N1-C6-O6	-7.52	115.39	119.90
3	A1	1185	G	N1-C2-N3	7.52	128.41	123.90
3	A1	1232	U	N3-C2-O2	-7.52	116.94	122.20
3	A1	1258	G	C5-C6-N1	7.52	115.26	111.50
3	A1	1366	C	N3-C2-O2	-7.52	116.64	121.90
24	BA	57	A	C4-C5-C6	-7.52	113.24	117.00
24	BA	99	A	N9-C4-C5	-7.52	102.79	105.80
25	BB	539	G	C2-N3-C4	7.52	115.66	111.90
25	BB	1517	G	C5-C6-N1	7.52	115.26	111.50
25	BB	1943	U	N3-C2-O2	-7.52	116.94	122.20
25	BB	2040	G	N3-C4-C5	7.52	132.36	128.60
25	BB	2355	G	N1-C2-N3	7.52	128.41	123.90
25	BB	2709	G	O4'-C1'-C2'	-7.52	98.28	105.80
30	BG	96	ARG	NE-CZ-NH2	7.52	124.06	120.30
3	A1	62	U	C5-C6-N1	-7.52	118.94	122.70
3	A1	458	U	O4'-C4'-C3'	7.52	112.11	106.10
3	A1	750	C	C5-C6-N1	-7.52	117.24	121.00
3	A1	887	G	C5-C6-O6	7.52	133.11	128.60
3	A1	1013	G	N9-C4-C5	7.52	108.41	105.40
3	A1	1070	U	O4'-C1'-N1	7.52	114.21	108.20
24	BA	18	G	N3-C2-N2	-7.52	114.64	119.90
24	BA	93	C	N3-C4-N4	-7.52	112.74	118.00
25	BB	30	G	C5-N7-C8	7.52	108.06	104.30
25	BB	194	G	O4'-C4'-C3'	7.52	112.11	106.10
25	BB	226	A	P-O3'-C3'	7.52	128.72	119.70
25	BB	266	G	N9-C1'-C2'	-7.52	103.73	112.00
25	BB	371	A	C1'-O4'-C4'	-7.52	103.89	109.90
25	BB	666	A	O4'-C1'-N9	7.52	114.21	108.20
25	BB	743	A	C5-C6-N1	7.52	121.46	117.70
25	BB	1500	G	N1-C6-O6	-7.52	115.39	119.90
25	BB	2185	U	O4'-C1'-N1	7.52	114.21	108.20
25	BB	2341	G	N7-C8-N9	7.52	116.86	113.10
25	BB	2509	G	N3-C2-N2	-7.52	114.64	119.90
25	BB	2588	G	C5-C6-N1	7.52	115.26	111.50
3	A1	59	A	C8-N9-C4	-7.52	102.79	105.80
3	A1	1030	U	C5-C6-N1	-7.52	118.94	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	201	G	C6-N1-C2	-7.51	120.59	125.10
3	A1	531	U	C5-C4-O4	-7.51	121.39	125.90
3	A1	571	U	N3-C2-O2	-7.51	116.94	122.20
3	A1	1034	G	N9-C4-C5	7.51	108.41	105.40
25	BB	75	G	N1-C2-N2	-7.51	109.44	116.20
25	BB	1011	G	C5-C6-O6	7.51	133.11	128.60
25	BB	1139	G	C6-N1-C2	-7.51	120.59	125.10
25	BB	1536	C	N1-C1'-C2'	-7.51	103.73	112.00
25	BB	1940	U	N3-C4-O4	7.51	124.66	119.40
25	BB	1987	A	C4-C5-N7	7.51	114.46	110.70
25	BB	2261	C	C6-N1-C2	7.51	123.31	120.30
49	BZ	122	ARG	NE-CZ-NH2	-7.51	116.54	120.30
1	AA	74	C	C5'-C4'-O4'	7.51	118.11	109.10
12	AK	50	TYR	CB-CG-CD1	-7.51	116.49	121.00
25	BB	1006	C	N3-C2-O2	-7.51	116.64	121.90
25	BB	1201	U	N1-C2-N3	7.51	119.41	114.90
25	BB	1453	A	C1'-O4'-C4'	-7.51	103.89	109.90
25	BB	1507	C	N3-C2-O2	-7.51	116.64	121.90
25	BB	2781	A	C4-C5-C6	-7.51	113.24	117.00
25	BB	2819	G	N1-C2-N2	-7.51	109.44	116.20
1	AP	54	U	C5-C6-N1	-7.51	118.94	122.70
3	A1	56	U	N3-C2-O2	-7.51	116.94	122.20
3	A1	879	C	N1-C2-O2	7.51	123.41	118.90
10	AI	82	ALA	N-CA-CB	-7.51	99.58	110.10
24	BA	79	G	C5'-C4'-C3'	-7.51	103.98	116.00
25	BB	156	A	C6-C5-N7	7.51	137.56	132.30
25	BB	393	C	N1-C2-O2	7.51	123.41	118.90
25	BB	2319	G	C5'-C4'-O4'	7.51	118.11	109.10
25	BB	2450	A	N7-C8-N9	7.51	117.56	113.80
25	BB	2584	U	C5-C4-O4	-7.51	121.39	125.90
25	BB	2640	G	C4'-C3'-C2'	-7.51	95.09	102.60
3	A1	1162	C	O4'-C1'-N1	7.51	114.21	108.20
3	A1	1400	C	C2-N3-C4	-7.51	116.15	119.90
3	A1	1493	A	O4'-C4'-C3'	7.51	112.11	106.10
25	BB	516	C	C2-N3-C4	-7.51	116.14	119.90
25	BB	810	U	C5'-C4'-O4'	7.51	118.11	109.10
25	BB	872	U	N3-C2-O2	-7.51	116.94	122.20
25	BB	1531	C	O4'-C1'-N1	7.51	114.21	108.20
25	BB	1713	A	N1-C6-N6	-7.51	114.09	118.60
3	A1	729	A	C6-N1-C2	-7.51	114.09	118.60
24	BA	81	G	C5-C6-N1	7.51	115.25	111.50
25	BB	617	G	C5-C6-O6	7.51	133.10	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	763	G	C2-N3-C4	7.51	115.65	111.90
25	BB	808	G	C6-N1-C2	-7.51	120.59	125.10
25	BB	1189	A	C5'-C4'-C3'	-7.51	103.99	116.00
25	BB	1499	C	N3-C4-C5	7.51	124.90	121.90
25	BB	2055	C	N1-C2-N3	7.51	124.45	119.20
25	BB	2587	A	C3'-C2'-C1'	-7.51	95.49	101.50
3	A1	168	G	N1-C6-O6	-7.51	115.40	119.90
3	A1	528	C	N3-C4-N4	-7.51	112.75	118.00
3	A1	1098	C	N3-C4-C5	7.51	124.90	121.90
25	BB	272	A	C4-C5-N7	7.51	114.45	110.70
25	BB	870	U	O4'-C1'-N1	7.51	114.20	108.20
25	BB	1163	G	N9-C1'-C2'	7.51	123.76	114.00
25	BB	1678	A	N7-C8-N9	7.51	117.55	113.80
25	BB	1680	U	N1-C2-O2	7.51	128.06	122.80
25	BB	2813	A	C6-C5-N7	7.51	137.56	132.30
3	A1	222	C	C6-N1-C2	7.50	123.30	120.30
3	A1	299	G	C5-C6-N1	7.50	115.25	111.50
3	A1	839	C	N3-C4-C5	7.50	124.90	121.90
3	A1	1197	A	N1-C2-N3	-7.50	125.55	129.30
3	A1	1268	G	C6-C5-N7	7.50	134.90	130.40
25	BB	706	A	N9-C4-C5	7.50	108.80	105.80
25	BB	1995	U	N3-C4-O4	-7.50	114.15	119.40
25	BB	2248	C	N3-C2-O2	-7.50	116.65	121.90
25	BB	2344	U	C6-N1-C2	-7.50	116.50	121.00
25	BB	2650	U	N3-C2-O2	-7.50	116.95	122.20
3	A1	1069	C	C6-N1-C2	7.50	123.30	120.30
3	A1	1441	A	C4-C5-N7	7.50	114.45	110.70
25	BB	538	A	C8-N9-C4	-7.50	102.80	105.80
25	BB	1867	G	N3-C4-C5	-7.50	124.85	128.60
25	BB	2079	U	N1-C2-N3	7.50	119.40	114.90
25	BB	2384	U	C2-N3-C4	-7.50	122.50	127.00
25	BB	2466	C	C5'-C4'-O4'	7.50	118.10	109.10
25	BB	2538	C	N1-C1'-C2'	7.50	123.75	114.00
25	BB	2867	G	N3-C4-C5	-7.50	124.85	128.60
1	AA	15	G	C5-C6-O6	-7.50	124.10	128.60
3	A1	638	U	N3-C2-O2	-7.50	116.95	122.20
3	A1	666	G	N3-C4-N9	7.50	130.50	126.00
3	A1	940	C	N3-C4-N4	-7.50	112.75	118.00
3	A1	1080	A	C2-N3-C4	7.50	114.35	110.60
9	AH	76	ARG	CD-NE-CZ	7.50	134.10	123.60
11	AJ	61	ARG	CD-NE-CZ	7.50	134.10	123.60
25	BB	1	G	C6-N1-C2	-7.50	120.60	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	185	G	N3-C4-N9	7.50	130.50	126.00
25	BB	494	G	C8-N9-C4	-7.50	103.40	106.40
25	BB	631	A	N3-C4-C5	-7.50	121.55	126.80
25	BB	1611	C	N1-C1'-C2'	-7.50	103.75	112.00
25	BB	2347	C	N3-C4-N4	-7.50	112.75	118.00
25	BB	2802	G	N1-C2-N3	7.50	128.40	123.90
25	BB	2825	G	C4'-C3'-C2'	-7.50	95.10	102.60
3	A1	109	A	C1'-O4'-C4'	-7.50	103.90	109.90
3	A1	299	G	C4-C5-N7	-7.50	107.80	110.80
3	A1	349	A	C5-N7-C8	-7.50	100.15	103.90
3	A1	1023	U	O4'-C1'-N1	7.50	114.20	108.20
3	A1	1188	A	C6-C5-N7	7.50	137.55	132.30
3	A1	1199	U	C5-C6-N1	-7.50	118.95	122.70
24	BA	60	C	C3'-C2'-C1'	7.50	107.50	101.50
25	BB	2355	G	N9-C4-C5	7.50	108.40	105.40
3	A1	223	A	C1'-O4'-C4'	-7.50	103.90	109.90
3	A1	953	G	N1-C2-N2	-7.50	109.45	116.20
22	AW	40	ARG	NE-CZ-NH1	7.50	124.05	120.30
24	BA	48	U	N1-C2-N3	7.50	119.40	114.90
25	BB	430	A	C5-C6-N6	7.50	129.70	123.70
25	BB	559	G	C5-C6-N1	7.50	115.25	111.50
25	BB	933	A	O4'-C4'-C3'	7.50	112.10	106.10
25	BB	1299	G	C8-N9-C4	-7.50	103.40	106.40
25	BB	1622	G	C4'-C3'-C2'	-7.50	95.10	102.60
43	BT	16	ARG	NE-CZ-NH1	7.50	124.05	120.30
3	A1	452	A	N7-C8-N9	-7.50	110.05	113.80
3	A1	567	G	C8-N9-C1'	7.50	136.75	127.00
3	A1	569	C	N3-C2-O2	-7.50	116.65	121.90
3	A1	708	C	N1-C1'-C2'	7.50	123.75	114.00
3	A1	1031	C	C4-C5-C6	-7.50	113.65	117.40
3	A1	1429	A	C4-C5-C6	-7.50	113.25	117.00
3	A1	1485	U	C5-C6-N1	-7.50	118.95	122.70
3	A1	1489	G	C2-N3-C4	7.50	115.65	111.90
25	BB	243	U	O4'-C1'-N1	7.50	114.20	108.20
25	BB	636	G	N3-C4-C5	-7.50	124.85	128.60
25	BB	879	G	N7-C8-N9	7.50	116.85	113.10
25	BB	1938	A	N1-C2-N3	7.50	133.05	129.30
25	BB	2342	C	O4'-C1'-N1	7.50	114.20	108.20
47	BX	24	ARG	NE-CZ-NH1	7.50	124.05	120.30
3	A1	1467	C	N3-C2-O2	-7.50	116.65	121.90
25	BB	848	C	N3-C2-O2	-7.50	116.65	121.90
25	BB	974	G	N1-C2-N3	7.50	128.40	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1380	G	C5-C6-N1	7.50	115.25	111.50
25	BB	1982	U	C2-N3-C4	-7.50	122.50	127.00
25	BB	2449	U	O4'-C1'-C2'	7.50	114.34	107.60
25	BB	423	A	C6-C5-N7	7.49	137.55	132.30
25	BB	687	C	C2-N3-C4	-7.49	116.15	119.90
25	BB	754	U	N3-C2-O2	-7.49	116.95	122.20
25	BB	924	G	C4-N9-C1'	-7.49	116.76	126.50
25	BB	1430	G	N1-C6-O6	-7.49	115.40	119.90
25	BB	1683	U	C4'-C3'-C2'	-7.49	95.11	102.60
25	BB	1764	C	N3-C4-C5	7.49	124.90	121.90
25	BB	1967	C	C2-N3-C4	-7.49	116.15	119.90
25	BB	2005	A	N3-C4-N9	-7.49	121.40	127.40
25	BB	2058	A	N1-C2-N3	7.49	133.05	129.30
25	BB	2221	G	C5'-C4'-O4'	7.49	118.09	109.10
25	BB	2403	C	N3-C4-C5	7.49	124.90	121.90
25	BB	2459	A	C6-C5-N7	7.49	137.54	132.30
25	BB	2899	A	C5-C6-N1	7.49	121.45	117.70
3	A1	559	A	N1-C6-N6	-7.49	114.11	118.60
25	BB	2	G	N3-C4-C5	-7.49	124.85	128.60
25	BB	1589	U	C5-C6-N1	-7.49	118.95	122.70
25	BB	1860	G	C6-N1-C2	-7.49	120.61	125.10
25	BB	2009	A	C4-C5-C6	-7.49	113.25	117.00
1	AP	19	G	C5-C6-O6	7.49	133.09	128.60
3	A1	368	U	C5'-C4'-C3'	-7.49	104.01	116.00
3	A1	1446	A	N1-C2-N3	-7.49	125.55	129.30
25	BB	641	U	O4'-C1'-C2'	-7.49	98.31	105.80
25	BB	2482	A	C6-N1-C2	-7.49	114.11	118.60
1	AA	45	G	N9-C4-C5	7.49	108.39	105.40
3	A1	48	C	N1-C2-N3	7.49	124.44	119.20
3	A1	231	U	O4'-C1'-N1	7.49	114.19	108.20
3	A1	896	C	N3-C4-N4	-7.49	112.76	118.00
24	BA	20	G	O5'-P-OP2	-7.49	98.96	105.70
24	BA	57	A	C3'-C2'-C1'	7.49	107.49	101.50
25	BB	136	G	C6-N1-C2	-7.49	120.61	125.10
25	BB	1070	A	C4-C5-N7	7.49	114.44	110.70
25	BB	1673	G	N1-C6-O6	-7.49	115.41	119.90
25	BB	1929	G	C1'-O4'-C4'	-7.49	103.91	109.90
25	BB	2513	A	C4-C5-C6	-7.49	113.26	117.00
25	BB	2570	G	C2'-C3'-O3'	7.49	125.97	109.50
25	BB	2890	G	C5-C6-N1	7.49	115.24	111.50
3	A1	384	G	C5'-C4'-O4'	7.49	118.08	109.10
3	A1	453	G	N1-C2-N2	7.49	122.94	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	536	C	C2-N3-C4	-7.49	116.16	119.90
3	A1	688	G	N9-C4-C5	7.49	108.39	105.40
3	A1	1027	C	N3-C2-O2	-7.49	116.66	121.90
24	BA	68	C	C5'-C4'-O4'	7.49	118.08	109.10
25	BB	1768	C	C4'-C3'-C2'	-7.49	95.11	102.60
25	BB	2674	G	C3'-C2'-C1'	7.49	107.49	101.50
3	A1	157	U	C4-C5-C6	7.49	124.19	119.70
3	A1	206	C	C4'-C3'-C2'	-7.49	95.11	102.60
3	A1	1280	A	C6-C5-N7	7.49	137.54	132.30
25	BB	30	G	N3-C2-N2	-7.49	114.66	119.90
25	BB	2451	A	C5-C6-N6	7.49	129.69	123.70
25	BB	2483	C	O4'-C4'-C3'	-7.49	96.51	104.00
25	BB	2511	U	O4'-C1'-N1	7.49	114.19	108.20
25	BB	2590	A	C8-N9-C4	7.49	108.79	105.80
25	BB	2730	C	C5-C4-N4	7.49	125.44	120.20
1	AE	43	G	C5-C6-N1	7.48	115.24	111.50
3	A1	503	C	C2-N3-C4	-7.48	116.16	119.90
3	A1	597	G	N1-C6-O6	-7.48	115.41	119.90
3	A1	681	A	C2-N3-C4	7.48	114.34	110.60
3	A1	690	G	C2-N3-C4	7.48	115.64	111.90
3	A1	1012	A	N1-C6-N6	-7.48	114.11	118.60
3	A1	1175	G	C5-N7-C8	-7.48	100.56	104.30
25	BB	70	G	N3-C2-N2	-7.48	114.66	119.90
25	BB	208	C	N1-C2-N3	7.48	124.44	119.20
25	BB	1048	A	N9-C4-C5	-7.48	102.81	105.80
25	BB	1480	C	O4'-C1'-C2'	7.48	114.34	107.60
1	AP	14	A	C5'-C4'-O4'	7.48	118.08	109.10
3	A1	49	U	N3-C4-C5	-7.48	110.11	114.60
3	A1	809	G	O4'-C1'-N9	7.48	114.19	108.20
11	AJ	26	ARG	NE-CZ-NH1	7.48	124.04	120.30
24	BA	68	C	C4'-C3'-C2'	-7.48	95.12	102.60
25	BB	319	G	C4'-C3'-C2'	-7.48	95.12	102.60
25	BB	838	C	N1-C2-O2	7.48	123.39	118.90
25	BB	1574	C	N1-C2-O2	7.48	123.39	118.90
25	BB	2316	G	N1-C6-O6	-7.48	115.41	119.90
51	B2	114	ARG	NE-CZ-NH2	7.48	124.04	120.30
3	A1	12	U	P-O3'-C3'	7.48	128.68	119.70
3	A1	180	U	C5-C4-O4	-7.48	121.41	125.90
3	A1	1097	C	N3-C4-C5	7.48	124.89	121.90
25	BB	91	A	C6-C5-N7	7.48	137.54	132.30
25	BB	392	U	C5-C4-O4	7.48	130.39	125.90
25	BB	1782	U	N1-C2-O2	7.48	128.04	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1978	A	C6-N1-C2	-7.48	114.11	118.60
25	BB	2464	G	C5-C6-O6	7.48	133.09	128.60
1	AE	54	U	C5-C6-N1	-7.48	118.96	122.70
25	BB	1182	G	C4-C5-C6	-7.48	114.31	118.80
25	BB	1648	U	N3-C2-O2	-7.48	116.97	122.20
25	BB	2887	A	C5'-C4'-C3'	-7.48	104.03	116.00
1	AE	76	A	C5-C6-N6	7.48	129.68	123.70
3	A1	808	C	N3-C4-N4	-7.48	112.77	118.00
3	A1	843	U	C3'-C2'-C1'	7.48	107.48	101.50
3	A1	1086	U	N3-C4-O4	-7.48	114.17	119.40
3	A1	1265	C	C2-N3-C4	-7.48	116.16	119.90
3	A1	1427	C	C6-N1-C2	-7.48	117.31	120.30
24	BA	14	U	C2-N3-C4	-7.48	122.51	127.00
25	BB	250	G	N1-C6-O6	-7.48	115.41	119.90
25	BB	433	C	C3'-C2'-C1'	7.48	107.48	101.50
25	BB	636	G	N3-C4-N9	7.48	130.49	126.00
25	BB	1107	G	N7-C8-N9	7.48	116.84	113.10
25	BB	1330	C	P-O3'-C3'	7.48	128.67	119.70
25	BB	1854	A	C6-N1-C2	-7.48	114.11	118.60
25	BB	2487	G	O4'-C4'-C3'	7.48	112.08	106.10
3	A1	643	C	N3-C2-O2	-7.48	116.67	121.90
24	BA	87	U	N1-C2-N3	7.48	119.39	114.90
25	BB	33	C	N1-C1'-C2'	7.48	123.72	114.00
25	BB	327	G	C6-C5-N7	7.48	134.88	130.40
25	BB	1152	C	C5-C4-N4	7.48	125.43	120.20
25	BB	2231	U	C5-C6-N1	-7.48	118.96	122.70
25	BB	2396	G	C5-C6-N1	7.48	115.24	111.50
25	BB	2436	G	N1-C6-O6	7.48	124.39	119.90
1	AE	29	A	O4'-C1'-N9	7.47	114.18	108.20
3	A1	36	C	C6-N1-C2	-7.47	117.31	120.30
3	A1	171	A	C5-C6-N1	7.47	121.44	117.70
3	A1	919	A	C3'-C2'-C1'	7.47	107.48	101.50
12	AK	63	TYR	CB-CG-CD2	-7.47	116.52	121.00
25	BB	181	A	N9-C4-C5	-7.47	102.81	105.80
25	BB	313	G	C5-N7-C8	-7.47	100.56	104.30
25	BB	902	C	C1'-O4'-C4'	-7.47	103.92	109.90
25	BB	1640	A	C2-N3-C4	7.47	114.34	110.60
25	BB	2042	A	C3'-C2'-C1'	7.47	107.48	101.50
25	BB	2492	U	O5'-P-OP1	-7.47	98.97	105.70
25	BB	2844	G	N7-C8-N9	7.47	116.84	113.10
27	BD	98	ARG	NH1-CZ-NH2	-7.47	111.18	119.40
3	A1	93	U	C6-N1-C2	-7.47	116.52	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	174	A	C4-C5-C6	-7.47	113.26	117.00
3	A1	1067	A	C4-C5-C6	-7.47	113.26	117.00
3	A1	1314	C	C5'-C4'-C3'	-7.47	104.04	116.00
3	A1	1433	A	N7-C8-N9	-7.47	110.06	113.80
24	BA	33	G	N1-C2-N3	7.47	128.38	123.90
25	BB	1718	G	C4-C5-C6	-7.47	114.32	118.80
25	BB	2705	A	C3'-C2'-C1'	7.47	107.48	101.50
25	BB	2901	C	N3-C4-N4	-7.47	112.77	118.00
7	AF	91	ARG	NE-CZ-NH1	7.47	124.03	120.30
3	A1	204	G	O4'-C4'-C3'	-7.47	96.53	104.00
3	A1	503	C	O4'-C1'-N1	7.47	114.18	108.20
3	A1	602	A	C4-C5-C6	-7.47	113.27	117.00
3	A1	1004	A	C2-N3-C4	-7.47	106.86	110.60
25	BB	88	G	C6-C5-N7	7.47	134.88	130.40
25	BB	852	U	N3-C4-C5	-7.47	110.12	114.60
25	BB	1176	U	C4-C5-C6	7.47	124.18	119.70
25	BB	1345	C	N3-C4-N4	7.47	123.23	118.00
25	BB	1577	C	N1-C2-O2	7.47	123.38	118.90
25	BB	1746	A	C6-C5-N7	7.47	137.53	132.30
25	BB	1827	U	C5'-C4'-O4'	7.47	118.06	109.10
25	BB	2355	G	C4-C5-N7	-7.47	107.81	110.80
35	BL	99	ARG	NE-CZ-NH2	7.47	124.03	120.30
39	BP	1	ALA	CB-CA-C	7.47	121.31	110.10
3	A1	182	A	C6-C5-N7	7.47	137.53	132.30
3	A1	1231	G	C5-N7-C8	-7.47	100.57	104.30
3	A1	1300	G	N1-C6-O6	-7.47	115.42	119.90
25	BB	291	G	C5-N7-C8	-7.47	100.57	104.30
25	BB	1187	G	N3-C4-C5	-7.47	124.87	128.60
25	BB	2881	U	C4-C5-C6	7.47	124.18	119.70
3	A1	1190	G	P-O3'-C3'	7.47	128.66	119.70
3	A1	1496	C	C5-C6-N1	-7.47	117.27	121.00
22	AW	48	ARG	NE-CZ-NH1	7.47	124.03	120.30
24	BA	63	C	C1'-O4'-C4'	-7.47	103.93	109.90
25	BB	272	A	C5-C6-N6	7.47	129.67	123.70
25	BB	1402	U	C5'-C4'-C3'	-7.47	104.05	116.00
25	BB	1730	C	C5-C4-N4	7.47	125.43	120.20
25	BB	2171	A	C8-N9-C4	-7.47	102.81	105.80
3	A1	302	G	C2-N3-C4	-7.46	108.17	111.90
3	A1	487	A	C4-C5-N7	7.46	114.43	110.70
25	BB	380	G	N1-C6-O6	-7.46	115.42	119.90
25	BB	548	G	C1'-O4'-C4'	-7.46	103.93	109.90
25	BB	563	A	O4'-C4'-C3'	7.46	112.07	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	891	G	N1-C6-O6	-7.46	115.42	119.90
25	BB	1296	G	C5-C6-N1	7.46	115.23	111.50
33	BJ	75	TYR	CB-CG-CD2	7.46	125.48	121.00
25	BB	513	A	N1-C2-N3	-7.46	125.57	129.30
25	BB	691	C	C5-C6-N1	-7.46	117.27	121.00
25	BB	733	G	C3'-C2'-C1'	7.46	107.47	101.50
25	BB	795	C	N3-C4-C5	7.46	124.89	121.90
25	BB	1007	C	N3-C4-C5	7.46	124.89	121.90
25	BB	1973	G	O4'-C1'-N9	7.46	114.17	108.20
25	BB	2419	U	C4-C5-C6	7.46	124.18	119.70
3	A1	569	C	C2-N3-C4	-7.46	116.17	119.90
3	A1	584	G	N7-C8-N9	7.46	116.83	113.10
3	A1	669	G	C2-N3-C4	7.46	115.63	111.90
3	A1	1397	C	C1'-O4'-C4'	-7.46	103.93	109.90
25	BB	79	C	C2-N3-C4	-7.46	116.17	119.90
25	BB	94	A	N9-C4-C5	-7.46	102.81	105.80
25	BB	219	A	C1'-O4'-C4'	-7.46	103.93	109.90
25	BB	924	G	N1-C6-O6	-7.46	115.42	119.90
25	BB	1313	U	N3-C2-O2	-7.46	116.98	122.20
38	BO	81	ARG	CD-NE-CZ	7.46	134.05	123.60
50	B1	83	VAL	CA-CB-CG1	7.46	122.09	110.90
3	A1	506	G	N1-C2-N2	7.46	122.91	116.20
25	BB	838	C	N3-C2-O2	-7.46	116.68	121.90
25	BB	1809	A	O4'-C1'-N9	-7.46	102.23	108.20
25	BB	2092	U	C5'-C4'-O4'	7.46	118.05	109.10
1	AE	62	A	N3-C4-C5	7.46	132.02	126.80
1	AE	66	A	N1-C6-N6	-7.46	114.12	118.60
3	A1	115	G	C4-C5-C6	-7.46	114.33	118.80
3	A1	139	A	C4-C5-N7	-7.46	106.97	110.70
3	A1	659	U	N1-C2-N3	7.46	119.38	114.90
3	A1	845	A	C6-N1-C2	-7.46	114.12	118.60
3	A1	1447	A	C6-C5-N7	7.46	137.52	132.30
25	BB	801	G	N7-C8-N9	-7.46	109.37	113.10
25	BB	937	C	O4'-C1'-N1	7.46	114.17	108.20
25	BB	1395	A	C5-N7-C8	-7.46	100.17	103.90
25	BB	2019	A	N9-C4-C5	7.46	108.78	105.80
25	BB	2537	U	O4'-C1'-N1	7.46	114.17	108.20
25	BB	2570	G	C5-N7-C8	-7.46	100.57	104.30
3	A1	226	G	C5-N7-C8	-7.46	100.57	104.30
3	A1	279	A	C2-N3-C4	7.46	114.33	110.60
3	A1	1082	A	C8-N9-C4	7.46	108.78	105.80
25	BB	957	C	C2-N3-C4	-7.46	116.17	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1643	G	N1-C2-N3	7.46	128.37	123.90
25	BB	2161	C	N3-C4-N4	7.46	123.22	118.00
25	BB	2770	G	N1-C2-N3	7.46	128.37	123.90
3	A1	422	C	N3-C4-C5	7.46	124.88	121.90
3	A1	472	U	O4'-C4'-C3'	7.46	112.06	106.10
25	BB	390	U	N3-C4-C5	-7.46	110.13	114.60
25	BB	633	A	N9-C4-C5	-7.46	102.82	105.80
25	BB	2171	A	C6-C5-N7	7.46	137.52	132.30
3	A1	275	G	O4'-C1'-N9	7.45	114.16	108.20
3	A1	931	C	C5-C4-N4	7.45	125.42	120.20
3	A1	1150	A	C4'-C3'-C2'	-7.45	95.15	102.60
3	A1	1412	C	N1-C2-O2	7.45	123.37	118.90
25	BB	245	G	C5-C6-N1	7.45	115.23	111.50
25	BB	321	U	C4'-C3'-C2'	-7.45	95.15	102.60
25	BB	329	G	O4'-C4'-C3'	-7.45	96.55	104.00
25	BB	997	G	N1-C2-N3	-7.45	119.43	123.90
25	BB	1737	G	C2-N3-C4	-7.45	108.17	111.90
25	BB	2440	C	C5'-C4'-O4'	7.45	118.04	109.10
25	BB	2688	G	O4'-C1'-C2'	-7.45	98.35	105.80
3	A1	222	C	N3-C4-C5	7.45	124.88	121.90
3	A1	576	C	N1-C2-N3	7.45	124.42	119.20
3	A1	727	G	C6-N1-C2	-7.45	120.63	125.10
3	A1	1405	G	N3-C2-N2	-7.45	114.68	119.90
12	AK	42	ARG	NE-CZ-NH1	7.45	124.03	120.30
24	BA	96	G	C4-C5-C6	-7.45	114.33	118.80
25	BB	104	A	N1-C2-N3	-7.45	125.57	129.30
25	BB	542	C	N3-C2-O2	-7.45	116.68	121.90
25	BB	802	A	C6-C5-N7	7.45	137.52	132.30
25	BB	1365	A	N7-C8-N9	7.45	117.53	113.80
25	BB	2037	A	C8-N9-C4	-7.45	102.82	105.80
25	BB	2107	G	N9-C1'-C2'	-7.45	103.80	112.00
1	AP	28	C	C2-N3-C4	-7.45	116.17	119.90
3	A1	435	A	C4-C5-C6	-7.45	113.28	117.00
3	A1	825	A	C5'-C4'-C3'	7.45	127.92	116.00
3	A1	1078	U	C3'-C2'-C1'	7.45	107.46	101.50
25	BB	47	C	C5'-C4'-C3'	-7.45	104.08	116.00
25	BB	592	A	N1-C6-N6	-7.45	114.13	118.60
25	BB	802	A	N9-C4-C5	7.45	108.78	105.80
25	BB	1326	U	C1'-O4'-C4'	-7.45	103.94	109.90
25	BB	2813	A	O4'-C1'-N9	7.45	114.16	108.20
34	BK	79	ARG	NH1-CZ-NH2	-7.45	111.20	119.40
50	B1	22	ASP	CB-CG-OD2	7.45	125.00	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	204	G	C8-N9-C4	-7.45	103.42	106.40
25	BB	55	G	N1-C2-N2	7.45	122.90	116.20
25	BB	1494	A	C2-N3-C4	7.45	114.32	110.60
25	BB	1757	A	C6-C5-N7	7.45	137.51	132.30
25	BB	1763	G	C1'-O4'-C4'	-7.45	103.94	109.90
25	BB	2340	A	C4-C5-C6	-7.45	113.28	117.00
25	BB	2588	G	C3'-C2'-C1'	-7.45	95.54	101.50
25	BB	2823	A	N9-C4-C5	7.45	108.78	105.80
37	BN	176	ARG	NH1-CZ-NH2	-7.45	111.21	119.40
3	A1	208	U	C4-C5-C6	7.45	124.17	119.70
3	A1	964	A	C5-C6-N1	7.45	121.42	117.70
3	A1	1215	G	N7-C8-N9	7.45	116.82	113.10
25	BB	469	G	C6-C5-N7	7.45	134.87	130.40
25	BB	793	A	N9-C4-C5	7.45	108.78	105.80
25	BB	950	G	C5-C6-O6	7.45	133.07	128.60
25	BB	2125	G	O4'-C1'-N9	7.45	114.16	108.20
40	BQ	11	VAL	CA-CB-CG1	7.45	122.07	110.90
3	A1	53	A	N7-C8-N9	7.45	117.52	113.80
3	A1	383	A	C5-C6-N1	7.45	121.42	117.70
3	A1	1457	G	N9-C4-C5	7.45	108.38	105.40
10	AI	35	ARG	NE-CZ-NH2	-7.45	116.58	120.30
25	BB	888	C	N3-C2-O2	-7.45	116.69	121.90
25	BB	1090	A	C6-C5-N7	7.45	137.51	132.30
25	BB	2361	G	O4'-C1'-N9	7.45	114.16	108.20
3	A1	254	G	C5-N7-C8	-7.44	100.58	104.30
3	A1	608	A	C5-N7-C8	-7.44	100.18	103.90
3	A1	1171	A	C6-C5-N7	7.44	137.51	132.30
25	BB	1112	G	C8-N9-C4	-7.44	103.42	106.40
25	BB	1823	G	O4'-C1'-N9	-7.44	102.25	108.20
25	BB	1826	G	N9-C1'-C2'	7.44	123.68	114.00
25	BB	2190	G	O4'-C1'-N9	-7.44	102.25	108.20
25	BB	2366	A	N9-C4-C5	7.44	108.78	105.80
1	AP	17	U	O4'-C1'-N1	7.44	114.16	108.20
3	A1	303	A	C6-N1-C2	-7.44	114.13	118.60
3	A1	806	C	N3-C4-N4	-7.44	112.79	118.00
3	A1	1040	U	N3-C2-O2	-7.44	116.99	122.20
3	A1	1361	G	N7-C8-N9	7.44	116.82	113.10
14	AN	50	PHE	CB-CG-CD2	-7.44	115.59	120.80
25	BB	321	U	C5-C4-O4	7.44	130.37	125.90
25	BB	468	G	C4-C5-N7	-7.44	107.82	110.80
25	BB	1307	A	N9-C4-C5	-7.44	102.82	105.80
25	BB	1392	A	O4'-C1'-N9	-7.44	102.25	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1600	C	C2-N3-C4	7.44	123.62	119.90
25	BB	1807	G	C5-C6-O6	7.44	133.07	128.60
25	BB	1929	G	N3-C2-N2	-7.44	114.69	119.90
25	BB	2305	U	C6-N1-C2	-7.44	116.53	121.00
25	BB	2453	A	C6-C5-N7	7.44	137.51	132.30
25	BB	2876	G	C3'-C2'-C1'	7.44	107.45	101.50
3	A1	40	C	C5-C6-N1	-7.44	117.28	121.00
3	A1	1055	A	C1'-O4'-C4'	-7.44	103.95	109.90
3	A1	1198	G	C5-C6-O6	7.44	133.06	128.60
3	A1	1316	G	C6-C5-N7	7.44	134.86	130.40
3	A1	1440	U	C4-C5-C6	7.44	124.16	119.70
25	BB	152	A	C6-C5-N7	7.44	137.51	132.30
25	BB	350	G	C5-C6-O6	-7.44	124.14	128.60
25	BB	410	G	N1-C6-O6	-7.44	115.44	119.90
25	BB	875	G	C6-C5-N7	7.44	134.86	130.40
25	BB	1111	A	N3-C4-C5	-7.44	121.59	126.80
25	BB	2251	G	O4'-C1'-N9	7.44	114.15	108.20
25	BB	2729	G	C6-N1-C2	-7.44	120.64	125.10
1	AE	40	C	N3-C4-N4	7.44	123.21	118.00
3	A1	186	C	O4'-C1'-N1	7.44	114.15	108.20
3	A1	536	C	N3-C4-N4	-7.44	112.79	118.00
24	BA	59	A	C5-C6-N1	7.44	121.42	117.70
25	BB	1055	G	C5-C6-O6	7.44	133.06	128.60
25	BB	1240	U	O4'-C1'-N1	7.44	114.15	108.20
25	BB	1898	U	O4'-C1'-N1	7.44	114.15	108.20
3	A1	246	A	C5-N7-C8	-7.44	100.18	103.90
3	A1	374	A	C5'-C4'-O4'	7.44	118.03	109.10
24	BA	51	G	C3'-C2'-C1'	7.44	107.45	101.50
25	BB	395	U	C6-N1-C2	-7.44	116.54	121.00
25	BB	843	G	N3-C4-N9	7.44	130.46	126.00
25	BB	1172	C	C3'-C2'-C1'	7.44	107.45	101.50
25	BB	1174	U	O4'-C1'-N1	7.44	114.15	108.20
25	BB	1355	G	C5-C6-N1	7.44	115.22	111.50
25	BB	1589	U	O4'-C1'-N1	7.44	114.15	108.20
25	BB	1628	G	N7-C8-N9	7.44	116.82	113.10
25	BB	1641	A	C5-N7-C8	7.44	107.62	103.90
25	BB	1805	A	C4-C5-C6	-7.44	113.28	117.00
25	BB	2223	G	C5-C6-N1	7.44	115.22	111.50
25	BB	2779	U	C5-C4-O4	-7.44	121.44	125.90
1	AP	59	U	C5-C6-N1	-7.44	118.98	122.70
3	A1	982	U	C6-N1-C2	-7.44	116.54	121.00
25	BB	530	G	N3-C4-N9	7.44	130.46	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2772	C	C6-N1-C2	-7.44	117.33	120.30
1	AE	52	U	O4'-C1'-N1	7.43	114.15	108.20
3	A1	181	A	C6-N1-C2	-7.43	114.14	118.60
25	BB	741	U	C5-C6-N1	-7.43	118.98	122.70
25	BB	924	G	C4-C5-N7	-7.43	107.83	110.80
25	BB	983	A	O4'-C4'-C3'	7.43	112.05	106.10
25	BB	1171	G	N9-C4-C5	-7.43	102.43	105.40
25	BB	1909	C	N3-C2-O2	-7.43	116.70	121.90
25	BB	2578	G	N3-C4-C5	-7.43	124.88	128.60
25	BB	2661	G	N3-C4-N9	7.43	130.46	126.00
25	BB	2720	U	C1'-O4'-C4'	-7.43	103.95	109.90
2	AM	14	U	C1'-O4'-C4'	-7.43	103.95	109.90
3	A1	94	G	C3'-C2'-C1'	-7.43	95.55	101.50
3	A1	410	G	O5'-P-OP1	-7.43	99.01	105.70
3	A1	592	G	C4-C5-C6	-7.43	114.34	118.80
3	A1	760	G	C4'-C3'-C2'	-7.43	95.17	102.60
3	A1	794	A	C4-C5-N7	7.43	114.42	110.70
3	A1	880	C	N1-C2-N3	7.43	124.40	119.20
3	A1	1146	A	C8-N9-C4	-7.43	102.83	105.80
3	A1	1339	A	C3'-C2'-C1'	7.43	107.45	101.50
3	A1	1492	A	O4'-C1'-N9	7.43	114.15	108.20
25	BB	401	A	C8-N9-C4	-7.43	102.83	105.80
25	BB	576	U	N1-C2-O2	7.43	128.00	122.80
25	BB	914	G	C5-N7-C8	-7.43	100.58	104.30
25	BB	1161	C	C5-C4-N4	7.43	125.40	120.20
25	BB	1553	A	C6-C5-N7	7.43	137.50	132.30
25	BB	2412	A	C5-N7-C8	-7.43	100.18	103.90
1	AE	3	G	N1-C2-N3	7.43	128.36	123.90
1	AE	5	A	C6-C5-N7	7.43	137.50	132.30
3	A1	24	U	C2-N3-C4	-7.43	122.54	127.00
3	A1	581	G	C1'-O4'-C4'	-7.43	103.95	109.90
3	A1	606	G	C5-C6-N1	7.43	115.22	111.50
3	A1	1106	G	C5'-C4'-O4'	7.43	118.02	109.10
3	A1	1482	G	N1-C2-N3	7.43	128.36	123.90
24	BA	106	G	N1-C6-O6	-7.43	115.44	119.90
25	BB	124	G	C5-C6-O6	7.43	133.06	128.60
25	BB	184	C	N3-C4-C5	7.43	124.87	121.90
25	BB	2140	G	C6-C5-N7	7.43	134.86	130.40
25	BB	404	A	C4-C5-N7	7.43	114.41	110.70
25	BB	1452	G	C4-C5-C6	-7.43	114.34	118.80
25	BB	2829	A	C5-C6-N1	7.43	121.41	117.70
25	BB	2900	A	N7-C8-N9	7.43	117.51	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	139	A	C4'-C3'-C2'	-7.43	95.17	102.60
3	A1	395	C	C3'-C2'-C1'	7.43	107.44	101.50
3	A1	639	G	N3-C2-N2	-7.43	114.70	119.90
25	BB	402	A	O4'-C1'-C2'	7.43	114.28	107.60
25	BB	454	A	C2-N3-C4	-7.43	106.89	110.60
25	BB	629	G	C2-N3-C4	7.43	115.61	111.90
25	BB	819	A	N1-C6-N6	-7.43	114.14	118.60
25	BB	838	C	C5-C6-N1	7.43	124.71	121.00
25	BB	988	A	C6-C5-N7	7.43	137.50	132.30
25	BB	1286	A	C4'-C3'-C2'	7.43	110.03	102.60
25	BB	1537	G	C5-C6-O6	-7.43	124.14	128.60
25	BB	1743	G	N7-C8-N9	-7.43	109.39	113.10
1	AA	45	G	N1-C2-N3	7.42	128.35	123.90
3	A1	689	C	C5'-C4'-O4'	7.42	118.01	109.10
3	A1	874	G	C5-C6-O6	7.42	133.05	128.60
3	A1	1076	U	C2-N3-C4	-7.42	122.55	127.00
3	A1	1119	C	C5-C4-N4	7.42	125.40	120.20
25	BB	26	G	C5-N7-C8	-7.42	100.59	104.30
25	BB	601	C	C5-C6-N1	-7.42	117.29	121.00
25	BB	783	A	C6-N1-C2	-7.42	114.15	118.60
25	BB	1008	A	C5-C6-N1	7.42	121.41	117.70
25	BB	1381	G	C4-C5-C6	-7.42	114.35	118.80
25	BB	1796	U	C2-N3-C4	-7.42	122.55	127.00
25	BB	1998	A	C3'-C2'-C1'	-7.42	95.56	101.50
25	BB	2344	U	C4'-C3'-C2'	-7.42	95.18	102.60
25	BB	2712	C	C5'-C4'-C3'	-7.42	104.12	116.00
1	AP	65	G	C1'-O4'-C4'	-7.42	103.96	109.90
3	A1	166	U	C6-N1-C2	-7.42	116.55	121.00
3	A1	242	G	C6-N1-C2	-7.42	120.65	125.10
3	A1	424	G	C4'-C3'-C2'	-7.42	95.18	102.60
3	A1	684	U	O4'-C1'-N1	7.42	114.14	108.20
25	BB	432	A	C5-N7-C8	-7.42	100.19	103.90
25	BB	2875	C	N1-C2-O2	7.42	123.35	118.90
1	AA	68	U	C4-C5-C6	7.42	124.15	119.70
3	A1	558	G	C3'-C2'-C1'	-7.42	95.56	101.50
3	A1	620	C	C5-C4-N4	-7.42	115.00	120.20
3	A1	672	U	C5-C6-N1	-7.42	118.99	122.70
3	A1	715	A	C5-C6-N1	7.42	121.41	117.70
3	A1	858	G	C8-N9-C4	-7.42	103.43	106.40
25	BB	666	A	C2-N3-C4	7.42	114.31	110.60
25	BB	767	U	C5-C6-N1	-7.42	118.99	122.70
25	BB	985	C	C5-C6-N1	-7.42	117.29	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1094	U	O4'-C1'-N1	7.42	114.14	108.20
25	BB	1343	G	C5'-C4'-O4'	7.42	118.01	109.10
25	BB	1530	G	N3-C2-N2	-7.42	114.70	119.90
25	BB	1666	G	C5-N7-C8	-7.42	100.59	104.30
33	BJ	50	ARG	NE-CZ-NH2	7.42	124.01	120.30
3	A1	209	U	C5-C4-O4	7.42	130.35	125.90
3	A1	1220	G	O4'-C1'-C2'	-7.42	98.38	105.80
25	BB	679	C	C2-N3-C4	-7.42	116.19	119.90
25	BB	775	G	C1'-O4'-C4'	-7.42	103.96	109.90
25	BB	867	C	O4'-C1'-N1	7.42	114.14	108.20
25	BB	1784	A	C6-C5-N7	7.42	137.49	132.30
25	BB	2281	A	C2-N3-C4	7.42	114.31	110.60
25	BB	2801	G	N1-C6-O6	-7.42	115.45	119.90
25	BB	2822	G	O4'-C4'-C3'	7.42	112.04	106.10
3	A1	46	G	C3'-C2'-C1'	7.42	107.44	101.50
3	A1	630	A	C5-N7-C8	-7.42	100.19	103.90
3	A1	780	A	N1-C6-N6	-7.42	114.15	118.60
3	A1	947	G	C4-C5-C6	-7.42	114.35	118.80
3	A1	1247	U	C4-C5-C6	7.42	124.15	119.70
25	BB	405	U	C1'-O4'-C4'	-7.42	103.97	109.90
25	BB	562	U	C5-C4-O4	7.42	130.35	125.90
25	BB	1018	U	C2-N3-C4	-7.42	122.55	127.00
25	BB	1131	G	N1-C6-O6	-7.42	115.45	119.90
25	BB	1169	A	C5-N7-C8	-7.42	100.19	103.90
25	BB	1887	C	C5-C6-N1	-7.42	117.29	121.00
25	BB	1962	C	C4-C5-C6	7.42	121.11	117.40
25	BB	2232	C	N3-C4-C5	7.42	124.87	121.90
25	BB	2243	U	C2-N3-C4	-7.42	122.55	127.00
50	B1	49	ARG	CD-NE-CZ	7.42	133.99	123.60
53	B4	15	LEU	CB-CG-CD2	7.42	123.61	111.00
3	A1	270	A	C4'-C3'-C2'	-7.42	95.18	102.60
25	BB	144	A	C2-N3-C4	7.42	114.31	110.60
25	BB	564	C	N3-C2-O2	-7.42	116.71	121.90
25	BB	612	G	C5-C6-O6	-7.42	124.15	128.60
25	BB	1280	G	C2-N3-C4	7.42	115.61	111.90
25	BB	1929	G	N3-C4-C5	-7.42	124.89	128.60
25	BB	2289	G	C5'-C4'-O4'	7.42	118.00	109.10
25	BB	2643	G	C2-N3-C4	7.42	115.61	111.90
25	BB	2677	G	C6-C5-N7	7.42	134.85	130.40
25	BB	2723	C	N1-C1'-C2'	-7.42	103.84	112.00
1	AA	35	A	C8-N9-C4	-7.42	102.83	105.80
19	AT	25	TYR	CB-CG-CD1	7.42	125.45	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	489	G	C4-C5-N7	-7.42	107.83	110.80
25	BB	675	A	N1-C6-N6	-7.42	114.15	118.60
25	BB	1383	A	C2-N3-C4	7.42	114.31	110.60
25	BB	1662	U	O4'-C1'-N1	7.42	114.13	108.20
25	BB	1968	G	O5'-P-OP1	-7.42	99.03	105.70
3	A1	353	A	O4'-C4'-C3'	-7.41	96.59	104.00
3	A1	484	G	N1-C2-N3	7.41	128.35	123.90
3	A1	1219	A	C3'-C2'-C1'	-7.41	95.57	101.50
25	BB	36	G	N9-C4-C5	7.41	108.36	105.40
25	BB	451	U	N3-C2-O2	-7.41	117.01	122.20
25	BB	515	A	C6-C5-N7	7.41	137.49	132.30
25	BB	859	G	C5-C6-O6	7.41	133.05	128.60
25	BB	1474	U	N3-C2-O2	-7.41	117.01	122.20
25	BB	1619	G	C4-C5-N7	-7.41	107.83	110.80
25	BB	1863	G	N1-C6-O6	-7.41	115.45	119.90
25	BB	2116	G	N9-C1'-C2'	-7.41	103.84	112.00
25	BB	2882	A	N9-C4-C5	7.41	108.77	105.80
3	A1	89	U	C2-N3-C4	-7.41	122.55	127.00
3	A1	388	G	C4'-C3'-C2'	-7.41	95.19	102.60
3	A1	460	A	C5-C6-N1	7.41	121.41	117.70
3	A1	901	A	C5'-C4'-O4'	7.41	118.00	109.10
25	BB	362	A	C1'-O4'-C4'	-7.41	103.97	109.90
25	BB	2018	G	C4-C5-N7	-7.41	107.83	110.80
25	BB	2086	U	O4'-C4'-C3'	-7.41	96.59	104.00
25	BB	2608	G	N1-C2-N3	7.41	128.35	123.90
25	BB	2900	A	C8-N9-C4	-7.41	102.83	105.80
52	B3	169	ARG	NH1-CZ-NH2	-7.41	111.25	119.40
1	AE	61	C	O4'-C1'-N1	7.41	114.13	108.20
3	A1	281	G	C4-N9-C1'	7.41	136.13	126.50
3	A1	316	C	C1'-O4'-C4'	-7.41	103.97	109.90
3	A1	1191	A	C5-C6-N1	7.41	121.41	117.70
3	A1	1275	A	C5-C6-N6	7.41	129.63	123.70
7	AF	2	ARG	NE-CZ-NH1	7.41	124.01	120.30
25	BB	143	C	C1'-O4'-C4'	-7.41	103.97	109.90
25	BB	292	U	C5-C6-N1	-7.41	119.00	122.70
25	BB	1628	G	C1'-O4'-C4'	-7.41	103.97	109.90
3	A1	318	G	C6-C5-N7	7.41	134.84	130.40
3	A1	457	G	N1-C2-N2	-7.41	109.53	116.20
3	A1	511	C	N3-C4-C5	7.41	124.86	121.90
3	A1	1084	G	C4-C5-C6	-7.41	114.36	118.80
3	A1	1182	G	O4'-C4'-C3'	-7.41	96.59	104.00
25	BB	379	G	N3-C4-N9	7.41	130.44	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	499	U	C4'-C3'-C2'	-7.41	95.19	102.60
25	BB	977	G	C2'-C3'-O3'	7.41	125.80	109.50
25	BB	2372	U	N1-C2-O2	7.41	127.98	122.80
25	BB	2438	U	O4'-C1'-C2'	-7.41	98.39	105.80
25	BB	2864	G	N3-C4-N9	7.41	130.44	126.00
3	A1	448	A	C5-C6-N1	7.41	121.40	117.70
1	AA	66	A	N7-C8-N9	7.41	117.50	113.80
3	A1	852	G	C5'-C4'-O4'	7.41	117.99	109.10
3	A1	886	G	C6-N1-C2	-7.41	120.66	125.10
25	BB	204	A	P-O3'-C3'	7.41	128.59	119.70
25	BB	1318	U	C5-C4-O4	-7.41	121.46	125.90
25	BB	1382	G	N3-C4-C5	7.41	132.30	128.60
25	BB	1478	G	C8-N9-C4	-7.41	103.44	106.40
25	BB	1597	A	C8-N9-C4	-7.41	102.84	105.80
25	BB	1598	A	C4-C5-N7	7.41	114.40	110.70
25	BB	2012	G	C5-N7-C8	-7.41	100.60	104.30
25	BB	2407	A	N3-C4-C5	7.41	131.98	126.80
3	A1	581	G	C4'-C3'-C2'	-7.40	95.20	102.60
3	A1	1201	A	C4-C5-N7	-7.40	107.00	110.70
3	A1	1510	C	N3-C4-N4	-7.40	112.82	118.00
25	BB	44	A	O4'-C1'-N9	7.40	114.12	108.20
25	BB	721	A	C8-N9-C4	-7.40	102.84	105.80
25	BB	781	A	C1'-O4'-C4'	-7.40	103.98	109.90
25	BB	2400	G	C6-C5-N7	-7.40	125.96	130.40
25	BB	2801	G	C6-N1-C2	-7.40	120.66	125.10
25	BB	581	C	O4'-C1'-C2'	-7.40	98.40	105.80
25	BB	720	U	C4-C5-C6	7.40	124.14	119.70
25	BB	1132	U	C5'-C4'-C3'	-7.40	104.16	116.00
25	BB	1587	G	C5-C6-N1	7.40	115.20	111.50
25	BB	1778	U	C4-C5-C6	7.40	124.14	119.70
25	BB	1810	A	C1'-O4'-C4'	7.40	115.82	109.90
25	BB	1910	G	C4-C5-N7	-7.40	107.84	110.80
25	BB	2053	G	C6-C5-N7	7.40	134.84	130.40
25	BB	2146	C	C5-C6-N1	-7.40	117.30	121.00
25	BB	2196	C	C4-C5-C6	7.40	121.10	117.40
25	BB	2559	C	N3-C4-N4	-7.40	112.82	118.00
25	BB	2857	G	C3'-C2'-C1'	-7.40	95.58	101.50
1	AE	71	G	C6-C5-N7	7.40	134.84	130.40
3	A1	63	C	N1-C2-O2	7.40	123.34	118.90
3	A1	696	A	C5-C6-N6	7.40	129.62	123.70
3	A1	879	C	C3'-C2'-C1'	7.40	107.42	101.50
3	A1	1432	G	C4-C5-N7	7.40	113.76	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1529	G	N7-C8-N9	7.40	116.80	113.10
24	BA	88	C	C5'-C4'-C3'	-7.40	104.16	116.00
25	BB	2012	G	C6-N1-C2	-7.40	120.66	125.10
25	BB	2168	G	N9-C4-C5	7.40	108.36	105.40
25	BB	2389	G	C4-C5-C6	-7.40	114.36	118.80
25	BB	2837	A	O4'-C4'-C3'	7.40	112.02	106.10
25	BB	2844	G	C8-N9-C4	-7.40	103.44	106.40
28	BE	86	GLU	OE1-CD-OE2	-7.40	114.42	123.30
34	BK	83	TYR	CB-CG-CD1	-7.40	116.56	121.00
3	A1	1149	C	C4-C5-C6	-7.40	113.70	117.40
3	A1	1524	C	C6-N1-C2	-7.40	117.34	120.30
25	BB	706	A	C5-C6-N6	7.40	129.62	123.70
25	BB	1022	G	C5-N7-C8	-7.40	100.60	104.30
25	BB	1423	G	C2-N3-C4	7.40	115.60	111.90
25	BB	1598	A	N1-C2-N3	7.40	133.00	129.30
25	BB	1873	G	C5-N7-C8	7.40	108.00	104.30
25	BB	2384	U	O4'-C1'-N1	7.40	114.12	108.20
25	BB	2550	G	C8-N9-C4	-7.40	103.44	106.40
1	AE	25	C	C2-N3-C4	-7.40	116.20	119.90
3	A1	871	U	C5-C6-N1	-7.40	119.00	122.70
3	A1	918	A	O4'-C4'-C3'	-7.40	96.60	104.00
3	A1	958	A	C6-N1-C2	-7.40	114.16	118.60
3	A1	980	C	N3-C2-O2	-7.40	116.72	121.90
3	A1	1365	G	C8-N9-C4	-7.40	103.44	106.40
3	A1	1477	U	O4'-C4'-C3'	-7.40	96.60	104.00
25	BB	489	G	N1-C2-N2	-7.40	109.54	116.20
25	BB	1139	G	C5-C6-O6	7.40	133.04	128.60
25	BB	2848	G	N7-C8-N9	7.40	116.80	113.10
25	BB	2891	U	N1-C2-N3	7.40	119.34	114.90
27	BD	100	PHE	CB-CG-CD2	-7.40	115.62	120.80
35	BL	99	ARG	NH1-CZ-NH2	-7.40	111.26	119.40
44	BU	48	TYR	CB-CG-CD1	-7.40	116.56	121.00
25	BB	1396	U	C3'-C2'-C1'	7.40	107.42	101.50
3	A1	50	A	C6-C5-N7	7.39	137.48	132.30
3	A1	371	A	O4'-C1'-N9	7.39	114.12	108.20
3	A1	399	G	O4'-C1'-N9	7.39	114.11	108.20
3	A1	592	G	C5-N7-C8	-7.39	100.60	104.30
3	A1	667	G	N3-C4-N9	-7.39	121.56	126.00
3	A1	676	A	N9-C4-C5	7.39	108.76	105.80
25	BB	752	A	O4'-C1'-N9	7.39	114.12	108.20
25	BB	1111	A	N1-C2-N3	7.39	133.00	129.30
25	BB	1163	G	C5-C6-O6	-7.39	124.16	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2377	A	C6-N1-C2	-7.39	114.16	118.60
25	BB	2454	G	C4-C5-N7	7.39	113.76	110.80
25	BB	2802	G	C5-N7-C8	-7.39	100.60	104.30
37	BN	86	ARG	NE-CZ-NH1	7.39	124.00	120.30
3	A1	142	G	O4'-C1'-N9	7.39	114.11	108.20
3	A1	1277	C	C4'-C3'-C2'	-7.39	95.21	102.60
3	A1	1426	G	C4-C5-N7	7.39	113.76	110.80
24	BA	108	A	C2-N3-C4	7.39	114.30	110.60
25	BB	126	A	C2-N3-C4	7.39	114.30	110.60
25	BB	256	A	N1-C2-N3	7.39	133.00	129.30
25	BB	643	A	C4-C5-C6	-7.39	113.30	117.00
25	BB	821	A	C2-N3-C4	7.39	114.30	110.60
25	BB	1617	C	C4-C5-C6	7.39	121.10	117.40
25	BB	1687	G	N9-C4-C5	7.39	108.36	105.40
25	BB	1765	U	N3-C2-O2	-7.39	117.03	122.20
25	BB	1793	C	N3-C4-C5	7.39	124.86	121.90
1	AP	42	G	N9-C4-C5	7.39	108.36	105.40
3	A1	992	U	N3-C2-O2	-7.39	117.03	122.20
3	A1	1186	G	N1-C6-O6	-7.39	115.47	119.90
20	AU	108	ARG	NH1-CZ-NH2	-7.39	111.27	119.40
25	BB	353	C	C2-N3-C4	-7.39	116.20	119.90
25	BB	1001	A	C5-N7-C8	-7.39	100.20	103.90
25	BB	1992	G	C5-N7-C8	-7.39	100.60	104.30
1	AP	55	U	C2-N3-C4	-7.39	122.57	127.00
1	AE	62	A	C2-N3-C4	-7.39	106.91	110.60
3	A1	455	G	N1-C6-O6	-7.39	115.47	119.90
3	A1	1094	G	N3-C2-N2	7.39	125.07	119.90
3	A1	1216	A	C6-N1-C2	7.39	123.03	118.60
3	A1	1351	U	C1'-O4'-C4'	-7.39	103.99	109.90
25	BB	73	A	O4'-C1'-N9	7.39	114.11	108.20
25	BB	84	A	C3'-C2'-C1'	7.39	107.41	101.50
25	BB	1051	G	O4'-C1'-N9	7.39	114.11	108.20
25	BB	1057	A	N7-C8-N9	7.39	117.50	113.80
25	BB	1467	U	C4-C5-C6	7.39	124.13	119.70
25	BB	1755	A	C8-N9-C4	-7.39	102.84	105.80
25	BB	1904	G	N9-C4-C5	7.39	108.36	105.40
25	BB	1938	A	C4-C5-C6	-7.39	113.31	117.00
25	BB	2135	A	C4-C5-N7	7.39	114.39	110.70
25	BB	2526	G	N7-C8-N9	7.39	116.79	113.10
3	A1	31	G	N1-C6-O6	-7.39	115.47	119.90
3	A1	873	A	C3'-C2'-C1'	-7.39	95.59	101.50
25	BB	44	A	N1-C2-N3	-7.39	125.61	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	996	A	N7-C8-N9	-7.39	110.11	113.80
3	A1	8	A	C5-N7-C8	-7.39	100.21	103.90
3	A1	120	A	C4-C5-C6	-7.39	113.31	117.00
3	A1	275	G	N7-C8-N9	7.39	116.79	113.10
3	A1	649	A	N7-C8-N9	7.39	117.49	113.80
24	BA	18	G	C6-N1-C2	-7.39	120.67	125.10
24	BA	50	A	N9-C1'-C2'	7.39	123.60	114.00
25	BB	65	U	O4'-C4'-C3'	7.39	112.01	106.10
25	BB	777	G	O4'-C4'-C3'	7.39	112.01	106.10
25	BB	889	C	C5-C4-N4	7.39	125.37	120.20
25	BB	2138	G	C1'-O4'-C4'	7.39	115.81	109.90
25	BB	2194	U	C2'-C3'-O3'	7.39	125.75	109.50
25	BB	2212	A	C6-N1-C2	-7.39	114.17	118.60
1	AA	24	G	C5-C6-N1	7.38	115.19	111.50
3	A1	151	A	N3-C4-N9	7.38	133.31	127.40
3	A1	325	A	C8-N9-C4	7.38	108.75	105.80
3	A1	791	G	C6-C5-N7	7.38	134.83	130.40
3	A1	826	C	N3-C4-C5	7.38	124.85	121.90
3	A1	1053	G	C8-N9-C1'	7.38	136.60	127.00
3	A1	1244	G	N1-C6-O6	-7.38	115.47	119.90
25	BB	1161	C	N3-C4-C5	7.38	124.85	121.90
25	BB	1998	A	C5'-C4'-C3'	-7.38	104.19	116.00
25	BB	2684	U	C2-N3-C4	-7.38	122.57	127.00
25	BB	2755	C	N3-C2-O2	-7.38	116.73	121.90
3	A1	718	A	C4'-C3'-C2'	-7.38	95.22	102.60
3	A1	1144	G	N3-C2-N2	-7.38	114.73	119.90
25	BB	827	U	N1-C2-O2	-7.38	117.63	122.80
25	BB	944	C	N3-C2-O2	-7.38	116.73	121.90
25	BB	1154	G	C6-C5-N7	7.38	134.83	130.40
25	BB	1578	U	C5'-C4'-C3'	-7.38	104.19	116.00
25	BB	1800	C	N1-C2-O2	7.38	123.33	118.90
25	BB	2221	G	O4'-C1'-C2'	7.38	114.25	107.60
25	BB	2479	U	N3-C4-O4	-7.38	114.23	119.40
25	BB	2572	A	O4'-C1'-N9	7.38	114.11	108.20
3	A1	65	A	N9-C4-C5	7.38	108.75	105.80
3	A1	206	C	C5-C6-N1	-7.38	117.31	121.00
3	A1	249	U	C3'-C2'-C1'	-7.38	95.60	101.50
3	A1	540	G	C4-C5-C6	-7.38	114.37	118.80
3	A1	540	G	N3-C2-N2	-7.38	114.73	119.90
3	A1	1129	C	C2-N3-C4	-7.38	116.21	119.90
3	A1	1347	G	C5-C6-O6	-7.38	124.17	128.60
3	A1	1496	C	C5-C4-N4	-7.38	115.03	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	259	G	N7-C8-N9	7.38	116.79	113.10
25	BB	343	C	N1-C2-O2	7.38	123.33	118.90
25	BB	766	U	C4'-C3'-C2'	-7.38	95.22	102.60
25	BB	2017	U	N3-C2-O2	-7.38	117.03	122.20
25	BB	2417	C	N3-C2-O2	-7.38	116.73	121.90
2	AM	15	U	N1-C2-N3	7.38	119.33	114.90
24	BA	9	G	N9-C4-C5	7.38	108.35	105.40
25	BB	827	U	N3-C4-O4	7.38	124.57	119.40
25	BB	1770	G	C6-N1-C2	-7.38	120.67	125.10
25	BB	2040	G	N1-C2-N3	7.38	128.33	123.90
3	A1	129	A	C5-N7-C8	-7.38	100.21	103.90
3	A1	462	G	C5-N7-C8	7.38	107.99	104.30
3	A1	596	A	C5-C6-N6	7.38	129.60	123.70
3	A1	677	U	N3-C2-O2	-7.38	117.03	122.20
3	A1	950	U	N3-C4-O4	-7.38	114.23	119.40
3	A1	1192	C	C4-C5-C6	-7.38	113.71	117.40
5	AC	113	THR	CA-CB-CG2	7.38	122.73	112.40
25	BB	127	A	C3'-C2'-C1'	7.38	107.40	101.50
25	BB	508	A	C5'-C4'-C3'	-7.38	104.19	116.00
25	BB	765	C	O4'-C1'-C2'	-7.38	98.42	105.80
25	BB	1334	G	N1-C6-O6	-7.38	115.47	119.90
25	BB	1404	C	C6-N1-C2	7.38	123.25	120.30
25	BB	1764	C	C5-C6-N1	-7.38	117.31	121.00
25	BB	2217	G	C4-C5-C6	-7.38	114.37	118.80
3	A1	314	C	N3-C4-N4	-7.38	112.84	118.00
3	A1	1083	U	C5-C6-N1	7.38	126.39	122.70
25	BB	494	G	C3'-C2'-C1'	7.38	107.40	101.50
25	BB	698	C	N3-C2-O2	-7.38	116.74	121.90
25	BB	960	A	C4-C5-C6	-7.38	113.31	117.00
3	A1	302	G	N1-C2-N3	7.38	128.32	123.90
3	A1	908	A	C6-N1-C2	-7.38	114.17	118.60
3	A1	1146	A	C4-C5-C6	-7.38	113.31	117.00
3	A1	1380	U	N1-C2-N3	7.38	119.33	114.90
25	BB	321	U	N3-C2-O2	-7.38	117.04	122.20
25	BB	657	U	C4'-C3'-C2'	-7.38	95.22	102.60
25	BB	1833	C	C5-C4-N4	-7.38	115.04	120.20
25	BB	2547	A	C4-C5-N7	-7.38	107.01	110.70
3	A1	445	G	C3'-C2'-C1'	-7.37	95.60	101.50
3	A1	680	C	N3-C2-O2	-7.37	116.74	121.90
3	A1	1014	A	O4'-C1'-N9	7.37	114.10	108.20
25	BB	127	A	C4-C5-C6	-7.37	113.31	117.00
25	BB	659	G	C6-N1-C2	-7.37	120.68	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1068	G	N7-C8-N9	7.37	116.79	113.10
25	BB	1408	G	C4-C5-C6	-7.37	114.38	118.80
25	BB	1870	C	C5-C6-N1	-7.37	117.31	121.00
25	BB	1901	A	C6-C5-N7	7.37	137.46	132.30
25	BB	2131	U	N1-C2-N3	7.37	119.32	114.90
25	BB	2535	G	C8-N9-C4	7.37	109.35	106.40
1	AA	7	U	C4-C5-C6	7.37	124.12	119.70
3	A1	132	C	C5-C6-N1	-7.37	117.31	121.00
3	A1	399	G	N3-C4-N9	7.37	130.42	126.00
3	A1	500	G	O4'-C1'-N9	7.37	114.10	108.20
3	A1	526	C	N1-C2-O2	7.37	123.32	118.90
3	A1	1388	C	C5-C4-N4	7.37	125.36	120.20
13	AL	77	ARG	NH1-CZ-NH2	-7.37	111.29	119.40
25	BB	50	U	C4'-C3'-C2'	-7.37	95.23	102.60
25	BB	117	G	C5'-C4'-C3'	-7.37	104.20	116.00
25	BB	322	A	C5-C6-N6	7.37	129.60	123.70
25	BB	351	C	C6-N1-C2	-7.37	117.35	120.30
25	BB	392	U	N1-C2-N3	7.37	119.32	114.90
25	BB	589	U	C5-C6-N1	-7.37	119.01	122.70
25	BB	672	C	P-O3'-C3'	7.37	128.55	119.70
25	BB	1118	C	N3-C4-N4	-7.37	112.84	118.00
25	BB	1488	C	C6-N1-C2	-7.37	117.35	120.30
25	BB	2276	G	C4-C5-N7	-7.37	107.85	110.80
25	BB	2304	G	P-O3'-C3'	7.37	128.54	119.70
25	BB	2351	G	C6-N1-C2	-7.37	120.68	125.10
25	BB	2565	A	C4-C5-C6	-7.37	113.31	117.00
1	AE	53	G	C2-N3-C4	7.37	115.58	111.90
3	A1	512	U	C6-N1-C2	-7.37	116.58	121.00
3	A1	1343	G	C2-N3-C4	7.37	115.58	111.90
3	A1	1493	A	C5-C6-N1	7.37	121.39	117.70
25	BB	522	A	C4'-C3'-C2'	-7.37	95.23	102.60
25	BB	524	G	N7-C8-N9	7.37	116.78	113.10
25	BB	2338	C	N1-C2-N3	7.37	124.36	119.20
25	BB	2846	G	N3-C4-C5	-7.37	124.92	128.60
3	A1	310	G	C2-N3-C4	7.37	115.58	111.90
3	A1	347	G	C2-N3-C4	-7.37	108.22	111.90
3	A1	927	G	C5-C6-O6	7.37	133.02	128.60
3	A1	1258	G	C5-N7-C8	-7.37	100.61	104.30
24	BA	71	C	C2-N3-C4	-7.37	116.22	119.90
25	BB	210	C	N3-C2-O2	-7.37	116.74	121.90
25	BB	700	G	O4'-C1'-N9	7.37	114.09	108.20
25	BB	1057	A	C5-N7-C8	-7.37	100.22	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1127	A	C8-N9-C4	7.37	108.75	105.80
25	BB	1572	A	C6-N1-C2	7.37	123.02	118.60
37	BN	13	ARG	NE-CZ-NH2	-7.37	116.62	120.30
37	BN	188	ARG	NE-CZ-NH1	7.37	123.98	120.30
39	BP	54	ARG	CB-CA-C	7.37	125.14	110.40
1	AA	67	A	N1-C6-N6	-7.37	114.18	118.60
3	A1	999	C	O4'-C1'-N1	7.37	114.09	108.20
6	AD	35	ARG	NE-CZ-NH2	7.37	123.98	120.30
24	BA	104	A	O4'-C1'-C2'	-7.37	98.43	105.80
25	BB	1652	A	C5-C6-N1	7.37	121.38	117.70
3	A1	42	G	C5-N7-C8	-7.37	100.62	104.30
3	A1	1476	A	C5-N7-C8	-7.37	100.22	103.90
25	BB	148	U	N1-C2-N3	7.37	119.32	114.90
25	BB	430	A	C4-C5-C6	-7.37	113.32	117.00
25	BB	972	A	N9-C4-C5	7.37	108.75	105.80
25	BB	1090	A	C6-N1-C2	-7.37	114.18	118.60
25	BB	1157	G	C6-C5-N7	7.37	134.82	130.40
25	BB	1349	C	C3'-C2'-C1'	7.37	107.39	101.50
25	BB	1469	A	C6-C5-N7	7.37	137.46	132.30
25	BB	1943	U	N1-C2-N3	7.37	119.32	114.90
25	BB	2115	G	C4-C5-N7	7.37	113.75	110.80
25	BB	2505	G	N7-C8-N9	7.37	116.78	113.10
1	AE	29	A	P-O3'-C3'	7.36	128.54	119.70
3	A1	418	C	C6-N1-C2	-7.36	117.36	120.30
3	A1	442	G	C5-C6-N1	7.36	115.18	111.50
3	A1	732	C	C5-C6-N1	7.36	124.68	121.00
3	A1	815	A	C6-N1-C2	-7.36	114.18	118.60
3	A1	956	U	C1'-O4'-C4'	-7.36	104.01	109.90
7	AF	85	TYR	C-N-CA	7.36	140.11	121.70
8	AG	60	ARG	NE-CZ-NH2	-7.36	116.62	120.30
25	BB	321	U	C4-C5-C6	7.36	124.12	119.70
25	BB	813	U	O4'-C1'-N1	7.36	114.09	108.20
25	BB	2391	G	C5-N7-C8	-7.36	100.62	104.30
25	BB	2524	G	C8-N9-C4	7.36	109.35	106.40
29	BF	108	VAL	CG1-CB-CG2	-7.36	99.12	110.90
25	BB	905	A	C4-C5-C6	-7.36	113.32	117.00
25	BB	1417	C	C4'-C3'-C2'	-7.36	95.24	102.60
3	A1	42	G	C5-C6-N1	7.36	115.18	111.50
3	A1	698	G	C5'-C4'-C3'	-7.36	104.22	116.00
3	A1	915	A	O4'-C1'-C2'	-7.36	98.44	105.80
3	A1	1393	U	N3-C2-O2	-7.36	117.05	122.20
25	BB	1202	G	C5-C6-N1	7.36	115.18	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1533	C	N1-C1'-C2'	-7.36	103.90	112.00
25	BB	1713	A	N3-C4-C5	-7.36	121.65	126.80
25	BB	1759	A	N7-C8-N9	7.36	117.48	113.80
25	BB	2350	C	N1-C2-O2	7.36	123.32	118.90
25	BB	2600	A	C3'-C2'-C1'	7.36	107.39	101.50
25	BB	2773	C	C5'-C4'-O4'	7.36	117.93	109.10
3	A1	1313	U	C1'-O4'-C4'	-7.36	104.01	109.90
3	A1	1519	A	C6-C5-N7	7.36	137.45	132.30
25	BB	1254	A	C5-N7-C8	7.36	107.58	103.90
25	BB	2762	C	C5-C4-N4	-7.36	115.05	120.20
3	A1	117	G	C5-C6-N1	7.36	115.18	111.50
3	A1	301	G	O4'-C1'-N9	7.36	114.09	108.20
3	A1	752	G	N3-C4-C5	-7.36	124.92	128.60
3	A1	936	C	C5-C6-N1	-7.36	117.32	121.00
25	BB	295	G	C5-C6-N1	7.36	115.18	111.50
25	BB	1003	G	C5-C6-N1	7.36	115.18	111.50
25	BB	1013	C	C4-C5-C6	7.36	121.08	117.40
25	BB	1306	C	C6-N1-C2	-7.36	117.36	120.30
25	BB	1749	A	C5'-C4'-O4'	7.36	117.93	109.10
25	BB	1904	G	N7-C8-N9	7.36	116.78	113.10
25	BB	2894	G	N3-C4-C5	-7.36	124.92	128.60
3	A1	100	G	N3-C4-C5	-7.36	124.92	128.60
3	A1	650	G	O4'-C1'-N9	-7.36	102.32	108.20
3	A1	1116	U	N3-C2-O2	-7.36	117.05	122.20
13	AL	21	ALA	N-CA-CB	-7.36	99.80	110.10
25	BB	153	U	C2-N3-C4	-7.36	122.59	127.00
25	BB	1144	A	C6-C5-N7	7.36	137.45	132.30
25	BB	1467	U	O4'-C1'-N1	7.36	114.08	108.20
25	BB	2061	G	N3-C4-N9	7.36	130.41	126.00
25	BB	2822	G	C3'-C2'-C1'	7.36	107.38	101.50
3	A1	181	A	C4'-C3'-C2'	7.35	109.95	102.60
3	A1	573	A	C6-N1-C2	-7.35	114.19	118.60
3	A1	998	C	N3-C2-O2	-7.35	116.75	121.90
3	A1	1084	G	N1-C2-N3	7.35	128.31	123.90
3	A1	1451	U	C2-N3-C4	-7.35	122.59	127.00
3	A1	1472	U	N3-C2-O2	-7.35	117.05	122.20
25	BB	89	A	C2-N3-C4	7.35	114.28	110.60
25	BB	297	G	N3-C4-N9	-7.35	121.59	126.00
25	BB	583	G	C5'-C4'-C3'	-7.35	104.23	116.00
25	BB	2431	U	N3-C2-O2	-7.35	117.05	122.20
3	A1	723	U	C5-C6-N1	-7.35	119.02	122.70
3	A1	1495	U	C5-C6-N1	-7.35	119.02	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1515	G	C4-C5-N7	-7.35	107.86	110.80
9	AH	53	ARG	NH1-CZ-NH2	-7.35	111.31	119.40
25	BB	349	U	C3'-C2'-C1'	7.35	107.38	101.50
25	BB	489	G	N9-C4-C5	7.35	108.34	105.40
25	BB	773	U	C1'-O4'-C4'	-7.35	104.02	109.90
25	BB	1006	C	C3'-C2'-C1'	-7.35	95.62	101.50
25	BB	1255	U	C5-C6-N1	-7.35	119.02	122.70
25	BB	1935	G	P-O3'-C3'	7.35	128.52	119.70
3	A1	159	G	C2-N3-C4	-7.35	108.22	111.90
3	A1	1139	G	C6-N1-C2	-7.35	120.69	125.10
25	BB	1822	C	N3-C2-O2	-7.35	116.75	121.90
39	BP	44	PHE	CB-CG-CD2	-7.35	115.66	120.80
3	A1	992	U	C2-N3-C4	-7.35	122.59	127.00
3	A1	997	U	N3-C2-O2	-7.35	117.06	122.20
25	BB	337	C	C5-C4-N4	7.35	125.34	120.20
25	BB	345	A	N1-C2-N3	-7.35	125.62	129.30
25	BB	530	G	N3-C4-C5	-7.35	124.93	128.60
25	BB	843	G	C5-N7-C8	7.35	107.97	104.30
25	BB	1229	C	O4'-C1'-N1	7.35	114.08	108.20
25	BB	2131	U	O4'-C4'-C3'	7.35	111.98	106.10
25	BB	2279	G	C5-C6-N1	7.35	115.17	111.50
26	BC	82	TYR	CG-CD1-CE1	-7.35	115.42	121.30
3	A1	580	C	N1-C1'-C2'	7.35	123.55	114.00
25	BB	609	A	C6-C5-N7	7.35	137.44	132.30
25	BB	684	G	C4-C5-N7	-7.35	107.86	110.80
25	BB	850	U	N3-C4-O4	7.35	124.54	119.40
25	BB	1023	U	C5'-C4'-O4'	-7.35	100.28	109.10
25	BB	1112	G	N1-C2-N3	7.35	128.31	123.90
25	BB	1135	C	C6-N1-C2	-7.35	117.36	120.30
25	BB	2586	U	O4'-C1'-N1	7.35	114.08	108.20
3	A1	1172	C	N1-C2-O2	7.35	123.31	118.90
25	BB	92	U	C4-C5-C6	7.35	124.11	119.70
25	BB	1149	G	N9-C4-C5	7.35	108.34	105.40
25	BB	1171	G	N3-C4-C5	-7.35	124.93	128.60
25	BB	1717	A	N1-C2-N3	-7.35	125.63	129.30
25	BB	1797	G	N3-C4-C5	-7.35	124.93	128.60
3	A1	37	U	C6-N1-C2	-7.34	116.59	121.00
3	A1	529	G	N3-C2-N2	-7.34	114.76	119.90
3	A1	778	G	N3-C4-C5	-7.34	124.93	128.60
3	A1	1405	G	C2'-C3'-O3'	7.34	125.66	109.50
3	A1	1514	G	N3-C4-C5	-7.34	124.93	128.60
25	BB	372	G	C5-C6-N1	7.34	115.17	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	374	A	O3'-P-O5'	7.34	117.95	104.00
25	BB	499	U	C1'-O4'-C4'	-7.34	104.02	109.90
25	BB	1185	G	N9-C4-C5	7.34	108.34	105.40
25	BB	1350	C	C1'-O4'-C4'	-7.34	104.02	109.90
25	BB	1506	U	N1-C2-O2	7.34	127.94	122.80
25	BB	2282	G	N7-C8-N9	-7.34	109.43	113.10
25	BB	2370	G	N3-C4-C5	-7.34	124.93	128.60
25	BB	2519	U	N3-C4-O4	7.34	124.54	119.40
3	A1	332	G	C2-N3-C4	7.34	115.57	111.90
3	A1	1112	C	N3-C4-N4	-7.34	112.86	118.00
3	A1	1456	A	N1-C6-N6	-7.34	114.19	118.60
25	BB	185	G	N3-C4-C5	-7.34	124.93	128.60
25	BB	970	U	P-O3'-C3'	7.34	128.51	119.70
25	BB	1047	G	O4'-C4'-C3'	7.34	111.97	106.10
33	BJ	49	ARG	NH1-CZ-NH2	-7.34	111.32	119.40
3	A1	144	G	N1-C2-N2	-7.34	109.59	116.20
3	A1	168	G	C5-C6-N1	7.34	115.17	111.50
3	A1	548	G	C4-C5-N7	7.34	113.74	110.80
3	A1	620	C	C4'-C3'-C2'	-7.34	95.26	102.60
3	A1	654	G	C5-N7-C8	-7.34	100.63	104.30
25	BB	646	U	C5-C6-N1	-7.34	119.03	122.70
25	BB	1360	G	C2-N3-C4	7.34	115.57	111.90
25	BB	2209	G	N1-C6-O6	-7.34	115.50	119.90
25	BB	2361	G	N3-C2-N2	-7.34	114.76	119.90
25	BB	2403	C	C2-N3-C4	-7.34	116.23	119.90
25	BB	2408	U	C4'-C3'-C2'	-7.34	95.26	102.60
3	A1	1235	U	C5-C4-O4	-7.34	121.50	125.90
3	A1	1449	C	N3-C4-N4	-7.34	112.86	118.00
25	BB	49	A	C5-N7-C8	-7.34	100.23	103.90
25	BB	772	C	N1-C2-O2	7.34	123.30	118.90
25	BB	1472	C	N3-C2-O2	-7.34	116.76	121.90
25	BB	1488	C	O4'-C4'-C3'	-7.34	96.66	104.00
25	BB	1767	G	N3-C4-N9	7.34	130.40	126.00
25	BB	2610	C	O4'-C4'-C3'	7.34	111.97	106.10
25	BB	2694	G	O3'-P-O5'	-7.34	90.06	104.00
25	BB	2772	C	C5-C4-N4	-7.34	115.06	120.20
25	BB	1876	A	C5-C6-N1	7.34	121.37	117.70
1	AA	25	C	C4-C5-C6	-7.34	113.73	117.40
24	BA	92	C	O4'-C1'-N1	7.34	114.07	108.20
25	BB	50	U	N3-C2-O2	-7.34	117.06	122.20
25	BB	771	G	N9-C4-C5	7.34	108.33	105.40
25	BB	1272	A	N9-C4-C5	7.34	108.73	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1753	G	N1-C6-O6	-7.34	115.50	119.90
25	BB	1976	U	O4'-C1'-N1	7.34	114.07	108.20
25	BB	2334	U	O4'-C1'-N1	7.34	114.07	108.20
1	AP	45	G	C1'-O4'-C4'	7.33	115.77	109.90
3	A1	193	C	N3-C4-C5	7.33	124.83	121.90
3	A1	617	G	C5-C6-N1	7.33	115.17	111.50
3	A1	957	U	C2-N3-C4	-7.33	122.60	127.00
3	A1	1488	G	C6-C5-N7	-7.33	126.00	130.40
25	BB	1696	G	C6-N1-C2	-7.33	120.70	125.10
25	BB	2278	A	C2'-C3'-O3'	7.33	125.64	109.50
25	BB	2714	G	C2'-C3'-O3'	7.33	125.64	109.50
3	A1	223	A	C5-C6-N6	7.33	129.57	123.70
3	A1	317	U	C5-C6-N1	-7.33	119.03	122.70
3	A1	331	G	C5-N7-C8	-7.33	100.63	104.30
3	A1	636	U	C2-N3-C4	-7.33	122.60	127.00
3	A1	894	G	O4'-C1'-C2'	7.33	114.20	107.60
22	AW	5	TYR	CB-CG-CD2	-7.33	116.60	121.00
25	BB	623	C	O4'-C1'-N1	7.33	114.07	108.20
25	BB	715	A	C5-C6-N1	7.33	121.37	117.70
25	BB	928	A	N1-C2-N3	-7.33	125.63	129.30
25	BB	1027	A	C6-C5-N7	7.33	137.43	132.30
25	BB	1207	C	N1-C2-N3	7.33	124.33	119.20
25	BB	1907	G	C5-C6-N1	7.33	115.17	111.50
25	BB	2168	G	C6-C5-N7	7.33	134.80	130.40
25	BB	2221	G	C5-C6-O6	7.33	133.00	128.60
25	BB	2403	C	C5-C4-N4	7.33	125.33	120.20
25	BB	2409	G	N3-C4-C5	-7.33	124.93	128.60
25	BB	2563	U	C5-C6-N1	-7.33	119.03	122.70
1	AA	19	G	N9-C4-C5	-7.33	102.47	105.40
3	A1	798	U	N1-C2-N3	7.33	119.30	114.90
3	A1	901	A	C4-C5-C6	-7.33	113.33	117.00
24	BA	106	G	N7-C8-N9	7.33	116.77	113.10
25	BB	727	A	N1-C6-N6	-7.33	114.20	118.60
25	BB	1250	G	C5-C6-N1	7.33	115.17	111.50
25	BB	1424	G	C6-C5-N7	7.33	134.80	130.40
3	A1	1509	C	N1-C2-O2	7.33	123.30	118.90
25	BB	665	U	C5-C6-N1	-7.33	119.03	122.70
25	BB	924	G	N7-C8-N9	-7.33	109.44	113.10
25	BB	1913	A	C6-C5-N7	7.33	137.43	132.30
25	BB	2737	G	C4-C5-N7	7.33	113.73	110.80
25	BB	2758	A	C4-C5-C6	-7.33	113.33	117.00
3	A1	127	G	N3-C4-N9	-7.33	121.60	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	414	A	C5-C6-N1	7.33	121.36	117.70
3	A1	522	C	C3'-C2'-C1'	7.33	107.36	101.50
3	A1	691	G	N3-C2-N2	-7.33	114.77	119.90
3	A1	1044	A	N9-C4-C5	7.33	108.73	105.80
3	A1	1184	G	C5-N7-C8	-7.33	100.64	104.30
3	A1	1203	C	N3-C4-C5	7.33	124.83	121.90
3	A1	1257	A	C5-C6-N6	7.33	129.56	123.70
3	A1	1281	C	C5'-C4'-C3'	-7.33	104.28	116.00
3	A1	1414	U	C3'-C2'-C1'	7.33	107.36	101.50
3	A1	1456	A	O4'-C1'-N9	7.33	114.06	108.20
25	BB	20	C	C5-C4-N4	7.33	125.33	120.20
25	BB	948	C	O4'-C1'-C2'	7.33	114.19	107.60
25	BB	1010	A	C6-N1-C2	-7.33	114.20	118.60
25	BB	1069	A	N9-C4-C5	-7.33	102.87	105.80
25	BB	1125	G	C3'-C2'-C1'	7.33	107.36	101.50
25	BB	1475	G	N3-C2-N2	-7.33	114.77	119.90
25	BB	1810	A	C6-C5-N7	7.33	137.43	132.30
25	BB	2658	C	C4-C5-C6	7.33	121.06	117.40
3	A1	679	C	N1-C2-O2	7.33	123.30	118.90
3	A1	1227	A	C6-N1-C2	-7.33	114.20	118.60
25	BB	33	C	N3-C2-O2	-7.33	116.77	121.90
25	BB	915	C	P-O3'-C3'	7.33	128.49	119.70
25	BB	1755	A	N9-C4-C5	7.33	108.73	105.80
3	A1	279	A	C5'-C4'-O4'	7.33	117.89	109.10
3	A1	1267	C	C1'-O4'-C4'	-7.33	104.04	109.90
3	A1	1341	U	C1'-O4'-C4'	-7.33	104.04	109.90
3	A1	1453	G	C4-C5-C6	-7.33	114.40	118.80
3	A1	1467	C	C5'-C4'-O4'	7.33	117.89	109.10
24	BA	83	G	C6-N1-C2	-7.33	120.70	125.10
25	BB	485	C	N1-C2-O2	7.33	123.30	118.90
25	BB	573	U	N3-C4-C5	7.33	119.00	114.60
25	BB	762	U	O4'-C1'-N1	7.33	114.06	108.20
25	BB	1190	G	C4-C5-N7	-7.33	107.87	110.80
25	BB	1240	U	N1-C2-N3	7.33	119.30	114.90
25	BB	1524	G	C5-C6-N1	7.33	115.16	111.50
25	BB	1867	G	C5-C6-N1	7.33	115.16	111.50
25	BB	2310	C	N3-C2-O2	-7.33	116.77	121.90
25	BB	2597	G	N1-C6-O6	-7.33	115.50	119.90
25	BB	2619	C	N1-C2-N3	7.33	124.33	119.20
25	BB	2722	G	N7-C8-N9	7.33	116.76	113.10
35	BL	92	ARG	NE-CZ-NH2	7.33	123.96	120.30
3	A1	45	G	C4-C5-C6	-7.32	114.41	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	858	G	N1-C2-N2	-7.32	109.61	116.20
3	A1	1047	G	C4-C5-C6	-7.32	114.41	118.80
25	BB	793	A	N7-C8-N9	7.32	117.46	113.80
25	BB	932	U	C2-N3-C4	-7.32	122.61	127.00
25	BB	1131	G	C4-C5-N7	-7.32	107.87	110.80
25	BB	2140	G	C5'-C4'-C3'	-7.32	104.28	116.00
25	BB	2194	U	N3-C4-C5	-7.32	110.21	114.60
49	BZ	26	PHE	CB-CG-CD1	7.32	125.93	120.80
3	A1	957	U	O4'-C4'-C3'	-7.32	96.68	104.00
25	BB	294	A	C4-C5-C6	-7.32	113.34	117.00
25	BB	1179	G	N3-C2-N2	-7.32	114.77	119.90
25	BB	2126	A	O4'-C1'-C2'	-7.32	98.48	105.80
25	BB	2467	C	C4-C5-C6	-7.32	113.74	117.40
1	AA	73	A	C4-C5-C6	-7.32	113.34	117.00
3	A1	1248	A	N9-C4-C5	7.32	108.73	105.80
3	A1	1277	C	N3-C2-O2	-7.32	116.78	121.90
25	BB	89	A	C4-C5-C6	-7.32	113.34	117.00
25	BB	172	A	C4-C5-C6	-7.32	113.34	117.00
25	BB	1200	C	O4'-C1'-N1	7.32	114.06	108.20
25	BB	1241	A	O4'-C1'-N9	7.32	114.06	108.20
25	BB	1460	U	O4'-C1'-N1	7.32	114.06	108.20
25	BB	1919	A	N7-C8-N9	7.32	117.46	113.80
25	BB	2322	A	N7-C8-N9	-7.32	110.14	113.80
25	BB	2372	U	C5-C6-N1	-7.32	119.04	122.70
25	BB	2722	G	C2-N3-C4	7.32	115.56	111.90
3	A1	201	G	C6-C5-N7	7.32	134.79	130.40
3	A1	1452	C	C4-C5-C6	7.32	121.06	117.40
25	BB	644	A	C5-C6-N1	7.32	121.36	117.70
25	BB	1016	G	C5-C6-O6	7.32	132.99	128.60
25	BB	1316	U	C5-C6-N1	-7.32	119.04	122.70
25	BB	1976	U	C5'-C4'-O4'	7.32	117.88	109.10
25	BB	2038	G	C4-C5-N7	7.32	113.73	110.80
30	BG	106	ASP	CB-CG-OD2	7.32	124.89	118.30
42	BS	25	ARG	NH1-CZ-NH2	-7.32	111.35	119.40
3	A1	494	G	O4'-C4'-C3'	7.32	111.95	106.10
3	A1	678	U	C6-N1-C2	-7.32	116.61	121.00
3	A1	892	A	C4-C5-C6	-7.32	113.34	117.00
3	A1	981	U	N3-C4-O4	7.32	124.52	119.40
25	BB	25	U	C5'-C4'-O4'	7.32	117.88	109.10
25	BB	312	G	C2-N3-C4	-7.32	108.24	111.90
25	BB	1750	G	C5-C6-O6	7.32	132.99	128.60
1	AA	1	G	C5-C6-O6	-7.32	124.21	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	39	U	C5-C4-O4	-7.32	121.51	125.90
3	A1	587	G	N1-C2-N3	7.32	128.29	123.90
25	BB	265	A	C8-N9-C4	-7.32	102.87	105.80
25	BB	347	A	N7-C8-N9	7.32	117.46	113.80
25	BB	1173	U	O4'-C1'-N1	7.32	114.05	108.20
25	BB	2202	U	C2-N3-C4	-7.32	122.61	127.00
25	BB	2600	A	C6-C5-N7	7.32	137.42	132.30
25	BB	2661	G	C5-N7-C8	-7.32	100.64	104.30
25	BB	2877	G	C5-C6-O6	7.32	132.99	128.60
3	A1	1343	G	C6-C5-N7	7.31	134.79	130.40
25	BB	1244	A	C8-N9-C4	-7.31	102.87	105.80
25	BB	1789	A	C3'-C2'-C1'	7.31	107.35	101.50
25	BB	1967	C	N3-C2-O2	-7.31	116.78	121.90
25	BB	2166	U	N1-C2-O2	7.31	127.92	122.80
25	BB	2559	C	N1-C2-O2	7.31	123.29	118.90
3	A1	332	G	C1'-O4'-C4'	-7.31	104.05	109.90
3	A1	484	G	C5-C6-O6	7.31	132.99	128.60
4	AB	193	ASP	CB-CG-OD2	7.31	124.88	118.30
25	BB	346	A	C8-N9-C4	-7.31	102.88	105.80
25	BB	1385	A	C2-N3-C4	7.31	114.26	110.60
25	BB	1937	A	C5-C6-N6	7.31	129.55	123.70
25	BB	2430	A	O5'-P-OP2	-7.31	99.12	105.70
25	BB	2817	U	N1-C2-O2	7.31	127.92	122.80
1	AE	49	C	N3-C2-O2	-7.31	116.78	121.90
3	A1	483	C	C6-N1-C2	-7.31	117.38	120.30
3	A1	898	G	N3-C2-N2	-7.31	114.78	119.90
3	A1	1238	A	C6-C5-N7	7.31	137.42	132.30
25	BB	567	U	C3'-C2'-C1'	7.31	107.35	101.50
25	BB	1510	G	C1'-O4'-C4'	-7.31	104.05	109.90
25	BB	1847	A	C3'-C2'-C1'	7.31	107.35	101.50
27	BD	4	GLU	OE1-CD-OE2	-7.31	114.53	123.30
3	A1	153	C	C5'-C4'-O4'	7.31	117.87	109.10
3	A1	329	A	C4-C5-N7	-7.31	107.05	110.70
24	BA	2	G	C4-C5-C6	-7.31	114.42	118.80
25	BB	254	G	C4'-C3'-C2'	-7.31	95.29	102.60
25	BB	384	A	N9-C1'-C2'	7.31	123.50	114.00
25	BB	615	U	C4'-C3'-C2'	-7.31	95.29	102.60
25	BB	687	C	C6-N1-C2	-7.31	117.38	120.30
25	BB	739	A	C6-N1-C2	-7.31	114.22	118.60
25	BB	868	U	N3-C4-C5	-7.31	110.21	114.60
25	BB	874	G	N3-C2-N2	-7.31	114.78	119.90
25	BB	1047	G	C3'-C2'-C1'	7.31	107.35	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1319	C	C5'-C4'-C3'	-7.31	104.31	116.00
25	BB	1454	C	N3-C4-N4	-7.31	112.88	118.00
25	BB	1571	A	C5'-C4'-O4'	7.31	117.87	109.10
25	BB	1830	C	C2-N3-C4	-7.31	116.25	119.90
25	BB	2120	G	C6-N1-C2	-7.31	120.71	125.10
25	BB	2170	A	C6-N1-C2	7.31	122.99	118.60
25	BB	2171	A	C4-C5-N7	-7.31	107.05	110.70
25	BB	2751	G	C5-C6-N1	7.31	115.16	111.50
3	A1	254	G	N3-C4-C5	-7.31	124.95	128.60
3	A1	1462	C	N3-C2-O2	-7.31	116.78	121.90
3	A1	1462	C	N3-C4-C5	7.31	124.82	121.90
24	BA	110	C	N1-C2-N3	-7.31	114.08	119.20
25	BB	861	A	O4'-C1'-N9	-7.31	102.35	108.20
25	BB	1278	C	N3-C4-N4	-7.31	112.89	118.00
25	BB	1790	C	N3-C4-C5	7.31	124.82	121.90
25	BB	1988	G	C5'-C4'-C3'	-7.31	104.31	116.00
25	BB	2536	G	N3-C2-N2	-7.31	114.78	119.90
25	BB	2537	U	N1-C2-N3	7.31	119.28	114.90
24	BA	92	C	O4'-C4'-C3'	-7.31	96.69	104.00
25	BB	464	U	C3'-C2'-C1'	7.31	107.34	101.50
25	BB	700	G	O5'-P-OP1	-7.31	99.12	105.70
25	BB	890	C	C6-N1-C2	-7.31	117.38	120.30
25	BB	2449	U	N1-C2-N3	7.31	119.28	114.90
25	BB	2828	G	O4'-C1'-N9	7.31	114.05	108.20
51	B2	94	ARG	NH1-CZ-NH2	-7.31	111.36	119.40
3	A1	1402	C	C5-C4-N4	-7.30	115.09	120.20
20	AU	78	ARG	CD-NE-CZ	7.30	133.83	123.60
25	BB	1022	G	C4-C5-N7	7.30	113.72	110.80
25	BB	1240	U	C2-N3-C4	-7.30	122.62	127.00
25	BB	1247	A	C5-C6-N1	7.30	121.35	117.70
25	BB	1530	G	O4'-C1'-N9	-7.30	102.36	108.20
25	BB	1882	U	O4'-C1'-N1	7.30	114.04	108.20
25	BB	2063	C	C6-N1-C1'	-7.30	112.03	120.80
25	BB	2175	C	C5-C6-N1	-7.30	117.35	121.00
25	BB	2694	G	C4-C5-N7	7.30	113.72	110.80
49	BZ	197	GLU	OE1-CD-OE2	-7.30	114.53	123.30
25	BB	1015	U	N3-C2-O2	-7.30	117.09	122.20
25	BB	1875	G	N9-C4-C5	7.30	108.32	105.40
25	BB	1903	G	N1-C6-O6	-7.30	115.52	119.90
25	BB	2642	G	N3-C4-C5	-7.30	124.95	128.60
1	AE	18	G	N1-C2-N3	7.30	128.28	123.90
3	A1	853	C	C5-C4-N4	7.30	125.31	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1143	G	C1'-O4'-C4'	-7.30	104.06	109.90
17	AR	46	ARG	NE-CZ-NH2	7.30	123.95	120.30
24	BA	76	G	N9-C4-C5	7.30	108.32	105.40
25	BB	439	A	O4'-C4'-C3'	7.30	111.94	106.10
25	BB	518	G	C4-C5-N7	7.30	113.72	110.80
25	BB	869	G	N9-C1'-C2'	-7.30	103.97	112.00
25	BB	1078	U	C3'-C2'-C1'	7.30	107.34	101.50
25	BB	1145	C	N3-C4-C5	7.30	124.82	121.90
25	BB	1230	A	N9-C4-C5	-7.30	102.88	105.80
25	BB	1820	U	N1-C2-N3	7.30	119.28	114.90
25	BB	1998	A	N7-C8-N9	7.30	117.45	113.80
25	BB	2273	A	C5-C6-N1	7.30	121.35	117.70
25	BB	2520	C	C5-C6-N1	-7.30	117.35	121.00
25	BB	2834	G	N3-C4-N9	7.30	130.38	126.00
3	A1	453	G	N9-C4-C5	7.30	108.32	105.40
3	A1	762	U	C1'-O4'-C4'	-7.30	104.06	109.90
3	A1	796	C	C5-C4-N4	-7.30	115.09	120.20
3	A1	1011	C	N3-C2-O2	-7.30	116.79	121.90
3	A1	1529	G	N9-C4-C5	7.30	108.32	105.40
25	BB	993	G	N1-C6-O6	-7.30	115.52	119.90
25	BB	1049	C	C4'-C3'-C2'	-7.30	95.30	102.60
25	BB	1613	G	C8-N9-C4	-7.30	103.48	106.40
25	BB	2345	G	O4'-C1'-N9	7.30	114.04	108.20
25	BB	2876	G	C2-N3-C4	7.30	115.55	111.90
50	B1	79	ARG	NE-CZ-NH1	7.30	123.95	120.30
50	B1	79	ARG	NE-CZ-NH2	7.30	123.95	120.30
3	A1	828	U	C1'-O4'-C4'	7.30	115.74	109.90
3	A1	1353	G	N1-C2-N2	-7.30	109.63	116.20
25	BB	331	C	O4'-C1'-C2'	-7.30	98.50	105.80
25	BB	627	A	C2-N3-C4	7.30	114.25	110.60
25	BB	1758	U	C5'-C4'-C3'	-7.30	104.32	116.00
25	BB	2793	C	O4'-C1'-N1	7.30	114.04	108.20
3	A1	197	A	C4-C5-C6	-7.30	113.35	117.00
3	A1	1455	G	C5-C6-O6	7.30	132.98	128.60
24	BA	31	C	N3-C2-O2	-7.30	116.79	121.90
25	BB	57	C	N3-C4-N4	-7.30	112.89	118.00
25	BB	1920	C	N3-C2-O2	-7.30	116.79	121.90
25	BB	1997	C	N3-C4-N4	-7.30	112.89	118.00
25	BB	2675	A	C4-C5-N7	7.30	114.35	110.70
1	AE	69	U	C4-C5-C6	-7.29	115.32	119.70
3	A1	917	G	C8-N9-C4	-7.29	103.48	106.40
3	A1	1437	A	C5-C6-N6	7.29	129.54	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	320	A	O4'-C1'-N9	7.29	114.04	108.20
25	BB	429	A	C5-C6-N1	7.29	121.35	117.70
1	AA	4	G	N3-C2-N2	-7.29	114.80	119.90
3	A1	88	U	C2-N3-C4	-7.29	122.62	127.00
3	A1	780	A	N7-C8-N9	7.29	117.45	113.80
3	A1	845	A	N9-C4-C5	7.29	108.72	105.80
3	A1	1335	U	C1'-O4'-C4'	-7.29	104.06	109.90
3	A1	1347	G	C1'-O4'-C4'	-7.29	104.06	109.90
25	BB	145	C	N1-C2-O2	7.29	123.28	118.90
25	BB	570	G	O4'-C1'-N9	7.29	114.04	108.20
25	BB	1499	C	C4'-C3'-C2'	-7.29	95.31	102.60
3	A1	423	G	C5-C6-N1	7.29	115.14	111.50
3	A1	764	C	N1-C2-O2	7.29	123.28	118.90
3	A1	1362	A	C6-C5-N7	7.29	137.41	132.30
25	BB	238	C	N3-C2-O2	-7.29	116.80	121.90
25	BB	502	A	N9-C4-C5	-7.29	102.88	105.80
25	BB	675	A	C4-C5-C6	-7.29	113.35	117.00
25	BB	1221	C	C4-C5-C6	-7.29	113.75	117.40
25	BB	1258	U	C5-C6-N1	-7.29	119.06	122.70
25	BB	1816	C	N3-C4-N4	-7.29	112.90	118.00
25	BB	2757	A	C1'-O4'-C4'	-7.29	104.07	109.90
1	AP	18	G	C1'-O4'-C4'	-7.29	104.07	109.90
3	A1	271	C	C4-C5-C6	7.29	121.05	117.40
25	BB	370	G	C6-N1-C2	-7.29	120.73	125.10
25	BB	493	G	N3-C4-C5	-7.29	124.95	128.60
25	BB	588	U	C4-C5-C6	7.29	124.07	119.70
25	BB	1837	C	O4'-C1'-N1	7.29	114.03	108.20
25	BB	2001	C	N3-C2-O2	-7.29	116.80	121.90
25	BB	2411	A	C5-C6-N1	7.29	121.34	117.70
25	BB	2551	C	C6-N1-C2	-7.29	117.38	120.30
25	BB	2675	A	O4'-C4'-C3'	7.29	111.93	106.10
3	A1	825	A	C4-C5-C6	-7.29	113.36	117.00
3	A1	1114	C	C1'-O4'-C4'	-7.29	104.07	109.90
24	BA	30	C	C4-C5-C6	-7.29	113.76	117.40
25	BB	555	G	N1-C6-O6	-7.29	115.53	119.90
25	BB	1307	A	O4'-C1'-N9	7.29	114.03	108.20
25	BB	1451	C	O4'-C1'-N1	7.29	114.03	108.20
25	BB	2866	U	N1-C2-N3	7.29	119.27	114.90
1	AP	43	G	C6-N1-C2	-7.29	120.73	125.10
3	A1	412	A	N9-C4-C5	7.29	108.72	105.80
3	A1	449	G	N3-C4-N9	7.29	130.37	126.00
3	A1	973	G	C8-N9-C4	7.29	109.31	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	982	C	C6-N1-C2	7.29	123.22	120.30
25	BB	1158	C	C4'-C3'-C2'	-7.29	95.31	102.60
25	BB	2504	U	N1-C2-O2	-7.29	117.70	122.80
1	AE	5	A	O4'-C4'-C3'	7.29	111.93	106.10
3	A1	601	G	N1-C2-N3	7.29	128.27	123.90
3	A1	678	U	C5-C4-O4	-7.29	121.53	125.90
3	A1	859	G	N3-C2-N2	-7.29	114.80	119.90
3	A1	860	A	N9-C4-C5	7.29	108.71	105.80
24	BA	53	A	C5-C6-N1	7.29	121.34	117.70
25	BB	187	G	C2-N3-C4	7.29	115.54	111.90
25	BB	719	C	N1-C2-N3	7.29	124.30	119.20
25	BB	1431	A	C4-C5-N7	7.29	114.34	110.70
25	BB	1845	G	C4-C5-N7	-7.29	107.89	110.80
25	BB	2186	G	C8-N9-C4	-7.29	103.49	106.40
25	BB	2401	U	N3-C2-O2	-7.29	117.10	122.20
25	BB	2748	A	N1-C2-N3	-7.29	125.66	129.30
25	BB	2839	G	C5-C6-O6	-7.29	124.23	128.60
1	AE	35	A	C5'-C4'-C3'	-7.28	104.35	116.00
18	AS	126	ALA	C-N-CA	7.28	139.91	121.70
24	BA	88	C	C1'-O4'-C4'	-7.28	104.07	109.90
25	BB	730	A	C4-C5-N7	7.28	114.34	110.70
25	BB	828	U	O4'-C1'-N1	7.28	114.03	108.20
25	BB	1490	A	C5-C6-N1	7.28	121.34	117.70
25	BB	1842	G	N3-C2-N2	-7.28	114.80	119.90
3	A1	393	A	C5-N7-C8	-7.28	100.26	103.90
3	A1	480	U	N1-C2-O2	7.28	127.90	122.80
25	BB	2681	C	O4'-C1'-C2'	-7.28	98.52	105.80
1	AA	73	A	N7-C8-N9	7.28	117.44	113.80
3	A1	215	C	C6-N1-C2	7.28	123.21	120.30
3	A1	297	G	C6-N1-C2	-7.28	120.73	125.10
3	A1	619	U	C5-C6-N1	-7.28	119.06	122.70
3	A1	1323	G	C5'-C4'-O4'	7.28	117.84	109.10
3	A1	1470	U	C4'-C3'-C2'	-7.28	95.32	102.60
22	AW	83	THR	CA-CB-CG2	7.28	122.59	112.40
25	BB	23	G	C5-C6-N1	7.28	115.14	111.50
25	BB	993	G	C8-N9-C4	-7.28	103.49	106.40
25	BB	2274	A	C3'-C2'-C1'	-7.28	95.67	101.50
25	BB	2450	A	C4'-C3'-C2'	-7.28	95.32	102.60
25	BB	2858	C	C6-N1-C1'	7.28	129.54	120.80
3	A1	622	A	C2'-C3'-O3'	7.28	125.51	109.50
3	A1	903	G	N3-C4-C5	-7.28	124.96	128.60
25	BB	799	G	C8-N9-C4	-7.28	103.49	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1676	A	C6-C5-N7	7.28	137.40	132.30
25	BB	1757	A	C1'-O4'-C4'	-7.28	104.08	109.90
25	BB	1924	C	C6-N1-C2	-7.28	117.39	120.30
25	BB	2321	U	C3'-C2'-C1'	-7.28	95.68	101.50
25	BB	2589	A	C6-C5-N7	7.28	137.40	132.30
25	BB	2645	G	C6-N1-C2	-7.28	120.73	125.10
28	BE	64	PHE	CB-CG-CD1	7.28	125.89	120.80
3	A1	486	U	P-O5'-C5'	7.28	132.54	120.90
3	A1	957	U	N1-C2-N3	7.28	119.27	114.90
21	AV	109	VAL	CG1-CB-CG2	-7.28	99.25	110.90
25	BB	50	U	C6-N1-C2	-7.28	116.63	121.00
25	BB	107	G	N9-C4-C5	7.28	108.31	105.40
25	BB	882	G	N3-C4-C5	-7.28	124.96	128.60
25	BB	1655	A	C6-N1-C2	7.28	122.97	118.60
25	BB	1695	G	C5-C6-O6	7.28	132.97	128.60
25	BB	2347	C	O4'-C4'-C3'	7.28	111.92	106.10
3	A1	413	G	N7-C8-N9	7.28	116.74	113.10
3	A1	497	G	C3'-C2'-C1'	-7.28	95.68	101.50
3	A1	982	U	C5-C4-O4	-7.28	121.53	125.90
15	AO	53	ARG	NH1-CZ-NH2	-7.28	111.40	119.40
25	BB	148	U	C4-C5-C6	7.28	124.06	119.70
25	BB	394	C	N3-C2-O2	-7.28	116.81	121.90
25	BB	573	U	O4'-C1'-N1	7.28	114.02	108.20
25	BB	2551	C	P-O3'-C3'	7.28	128.43	119.70
30	BG	22	ARG	CD-NE-CZ	7.28	133.78	123.60
3	A1	1412	C	N3-C4-C5	7.27	124.81	121.90
25	BB	258	G	C5-C6-O6	7.27	132.96	128.60
25	BB	1762	A	C5-C6-N6	7.27	129.52	123.70
25	BB	2026	U	N3-C4-O4	7.27	124.49	119.40
1	AP	7	U	C4'-C3'-C2'	-7.27	95.33	102.60
2	AM	14	U	N3-C4-C5	-7.27	110.24	114.60
3	A1	321	A	N9-C4-C5	-7.27	102.89	105.80
3	A1	1242	G	O4'-C1'-N9	7.27	114.02	108.20
25	BB	433	C	O4'-C4'-C3'	7.27	111.92	106.10
25	BB	542	C	N1-C2-O2	7.27	123.26	118.90
25	BB	1760	C	O4'-C1'-N1	7.27	114.02	108.20
25	BB	2025	C	C6-N1-C2	-7.27	117.39	120.30
25	BB	2116	G	C4-C5-N7	-7.27	107.89	110.80
25	BB	2246	G	N3-C2-N2	-7.27	114.81	119.90
25	BB	2446	G	C6-C5-N7	7.27	134.76	130.40
25	BB	2518	A	N9-C4-C5	-7.27	102.89	105.80
25	BB	2635	A	P-O3'-C3'	7.27	128.43	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2746	U	N3-C2-O2	-7.27	117.11	122.20
1	AA	73	A	C5-N7-C8	-7.27	100.26	103.90
3	A1	540	G	C6-N1-C2	-7.27	120.74	125.10
3	A1	1469	C	C5'-C4'-O4'	7.27	117.83	109.10
25	BB	1306	C	C2-N3-C4	-7.27	116.27	119.90
25	BB	2332	C	C2-N3-C4	-7.27	116.26	119.90
3	A1	1019	A	C5-C6-N1	7.27	121.33	117.70
3	A1	1251	A	C6-C5-N7	7.27	137.39	132.30
3	A1	1283	U	C3'-C2'-C1'	7.27	107.32	101.50
3	A1	1461	G	N1-C2-N2	-7.27	109.66	116.20
20	AU	25	PHE	CB-CG-CD1	-7.27	115.71	120.80
25	BB	537	G	C5'-C4'-C3'	-7.27	104.37	116.00
25	BB	1046	A	C6-C5-N7	7.27	137.39	132.30
25	BB	1315	C	N3-C4-N4	-7.27	112.91	118.00
25	BB	1369	G	N1-C6-O6	-7.27	115.54	119.90
25	BB	1964	G	C4-C5-C6	-7.27	114.44	118.80
25	BB	2198	A	N1-C6-N6	-7.27	114.24	118.60
25	BB	2325	G	C8-N9-C4	-7.27	103.49	106.40
25	BB	2411	A	C5-N7-C8	7.27	107.53	103.90
30	BG	102	PHE	CB-CG-CD1	-7.27	115.71	120.80
3	A1	194	C	C4-C5-C6	7.27	121.03	117.40
3	A1	501	C	N1-C1'-C2'	-7.27	104.01	112.00
3	A1	858	G	C1'-O4'-C4'	-7.27	104.09	109.90
3	A1	1076	U	N3-C2-O2	-7.27	117.11	122.20
24	BA	47	C	O4'-C1'-N1	7.27	114.01	108.20
25	BB	572	A	O4'-C4'-C3'	7.27	111.91	106.10
25	BB	619	G	N1-C6-O6	-7.27	115.54	119.90
25	BB	927	A	C1'-O4'-C4'	-7.27	104.09	109.90
25	BB	1468	U	C4-C5-C6	7.27	124.06	119.70
25	BB	1738	G	N3-C4-N9	-7.27	121.64	126.00
25	BB	1830	C	N1-C2-O2	7.27	123.26	118.90
1	AA	66	A	C6-C5-N7	7.27	137.39	132.30
3	A1	141	G	C5-N7-C8	-7.27	100.67	104.30
3	A1	1003	G	C2-N3-C4	7.27	115.53	111.90
3	A1	1326	U	C3'-C2'-C1'	-7.27	95.69	101.50
25	BB	873	C	C6-N1-C2	-7.27	117.39	120.30
3	A1	67	C	N3-C4-N4	-7.26	112.92	118.00
3	A1	576	C	O4'-C1'-N1	-7.26	102.39	108.20
3	A1	588	G	N9-C4-C5	7.26	108.31	105.40
3	A1	949	A	C6-N1-C2	-7.26	114.24	118.60
3	A1	1126	U	C5'-C4'-O4'	-7.26	100.38	109.10
3	A1	1327	C	C4-C5-C6	7.26	121.03	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	67	U	N3-C2-O2	-7.26	117.11	122.20
25	BB	1025	G	C5-C6-O6	-7.26	124.24	128.60
25	BB	1117	C	C5-C4-N4	-7.26	115.11	120.20
25	BB	1403	A	C3'-C2'-C1'	-7.26	95.69	101.50
25	BB	1443	U	O4'-C1'-N1	7.26	114.01	108.20
25	BB	1871	A	C6-N1-C2	-7.26	114.24	118.60
25	BB	2166	U	C5-C6-N1	-7.26	119.07	122.70
3	A1	260	G	N7-C8-N9	7.26	116.73	113.10
3	A1	281	G	N1-C2-N3	7.26	128.26	123.90
3	A1	458	U	C4-C5-C6	7.26	124.06	119.70
3	A1	1334	G	C1'-O4'-C4'	-7.26	104.09	109.90
25	BB	1991	U	N3-C2-O2	-7.26	117.12	122.20
1	AA	70	C	C2-N3-C4	-7.26	116.27	119.90
3	A1	316	C	C5'-C4'-O4'	7.26	117.81	109.10
3	A1	969	A	C3'-C2'-C1'	-7.26	95.69	101.50
3	A1	1499	A	C8-N9-C4	7.26	108.70	105.80
24	BA	15	A	C4-C5-N7	7.26	114.33	110.70
25	BB	122	G	C5-C6-N1	7.26	115.13	111.50
25	BB	374	A	C5-C6-N6	7.26	129.51	123.70
25	BB	570	G	N3-C4-C5	-7.26	124.97	128.60
25	BB	1051	G	C5-C6-O6	7.26	132.96	128.60
25	BB	1434	A	C4-C5-N7	7.26	114.33	110.70
25	BB	1568	G	N3-C4-N9	7.26	130.36	126.00
25	BB	1928	A	C6-C5-N7	7.26	137.38	132.30
25	BB	2292	U	O4'-C1'-N1	7.26	114.01	108.20
30	BG	96	ARG	NH1-CZ-NH2	-7.26	111.41	119.40
3	A1	366	A	C4-C5-C6	-7.26	113.37	117.00
3	A1	1118	U	O4'-C1'-N1	7.26	114.01	108.20
3	A1	1243	C	C5-C6-N1	-7.26	117.37	121.00
3	A1	1261	A	C3'-C2'-C1'	-7.26	95.69	101.50
25	BB	72	U	O4'-C1'-C2'	-7.26	98.54	105.80
25	BB	294	A	C8-N9-C4	7.26	108.70	105.80
25	BB	1705	A	C5-C6-N1	7.26	121.33	117.70
25	BB	1943	U	O4'-C1'-N1	7.26	114.01	108.20
25	BB	2271	G	O4'-C1'-N9	-7.26	102.39	108.20
25	BB	2706	A	N9-C4-C5	7.26	108.70	105.80
25	BB	2887	A	C6-C5-N7	7.26	137.38	132.30
25	BB	1363	C	N3-C4-N4	-7.26	112.92	118.00
49	BZ	153	ARG	NE-CZ-NH1	-7.26	116.67	120.30
1	AE	62	A	C6-C5-N7	7.26	137.38	132.30
3	A1	293	G	C2-N3-C4	-7.26	108.27	111.90
3	A1	954	G	C4-C5-C6	-7.26	114.45	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1254	A	N1-C6-N6	-7.26	114.25	118.60
3	A1	1530	G	C5-C6-O6	7.26	132.95	128.60
5	AC	32	THR	OG1-CB-CG2	-7.26	93.31	110.00
25	BB	738	G	N1-C6-O6	-7.26	115.55	119.90
25	BB	1135	C	C4'-C3'-C2'	-7.26	95.34	102.60
25	BB	1283	G	C2-N3-C4	7.26	115.53	111.90
25	BB	1664	A	C6-N1-C2	-7.26	114.25	118.60
25	BB	2698	U	C5-C6-N1	-7.26	119.07	122.70
32	BI	98	TYR	CB-CG-CD1	7.26	125.35	121.00
1	AA	54	U	C2-N3-C4	-7.25	122.65	127.00
1	AE	74	C	C2-N3-C4	-7.25	116.27	119.90
3	A1	1510	C	N3-C4-C5	7.25	124.80	121.90
25	BB	22	C	C3'-C2'-C1'	7.25	107.30	101.50
25	BB	47	C	C4'-C3'-C2'	7.25	109.86	102.60
25	BB	52	A	N9-C4-C5	7.25	108.70	105.80
25	BB	286	U	N3-C2-O2	-7.25	117.12	122.20
25	BB	351	C	C2-N3-C4	-7.25	116.27	119.90
25	BB	417	C	C5-C4-N4	-7.25	115.12	120.20
25	BB	814	C	P-O3'-C3'	7.25	128.41	119.70
25	BB	896	A	C6-N1-C2	-7.25	114.25	118.60
25	BB	1210	G	C6-N1-C2	-7.25	120.75	125.10
25	BB	2209	G	N9-C1'-C2'	-7.25	104.02	112.00
25	BB	2493	U	C1'-O4'-C4'	-7.25	104.10	109.90
25	BB	2534	A	C6-C5-N7	7.25	137.38	132.30
3	A1	99	C	C5'-C4'-C3'	-7.25	104.39	116.00
3	A1	321	A	O4'-C1'-N9	7.25	114.00	108.20
3	A1	426	U	N3-C4-C5	-7.25	110.25	114.60
3	A1	576	C	C2-N3-C4	-7.25	116.27	119.90
3	A1	683	G	N9-C4-C5	7.25	108.30	105.40
3	A1	958	A	C4-C5-C6	-7.25	113.37	117.00
3	A1	990	C	C3'-C2'-C1'	-7.25	95.70	101.50
22	AW	10	ARG	NE-CZ-NH2	7.25	123.93	120.30
25	BB	554	U	O4'-C1'-N1	7.25	114.00	108.20
25	BB	1000	A	C3'-C2'-C1'	-7.25	95.70	101.50
25	BB	1341	G	C5-N7-C8	-7.25	100.67	104.30
25	BB	2644	G	N9-C4-C5	7.25	108.30	105.40
25	BB	2781	A	C5-C6-N1	7.25	121.33	117.70
1	AE	58	A	N1-C2-N3	-7.25	125.67	129.30
3	A1	233	C	C5'-C4'-O4'	7.25	117.80	109.10
3	A1	799	G	N7-C8-N9	7.25	116.73	113.10
3	A1	1048	G	O4'-C1'-N9	7.25	114.00	108.20
25	BB	55	G	C4'-C3'-C2'	-7.25	95.35	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	303	G	N3-C4-C5	-7.25	124.97	128.60
25	BB	647	G	N1-C2-N2	-7.25	109.67	116.20
25	BB	2534	A	O4'-C1'-N9	-7.25	102.40	108.20
25	BB	2622	U	O4'-C1'-N1	7.25	114.00	108.20
25	BB	2665	A	C5-C6-N6	7.25	129.50	123.70
25	BB	2732	G	C5-C6-N1	7.25	115.13	111.50
33	BJ	24	TYR	CG-CD1-CE1	-7.25	115.50	121.30
3	A1	355	C	N1-C2-O2	7.25	123.25	118.90
3	A1	646	G	C6-N1-C2	-7.25	120.75	125.10
3	A1	726	C	C5-C6-N1	-7.25	117.38	121.00
3	A1	1433	A	N9-C4-C5	-7.25	102.90	105.80
25	BB	230	G	C5-N7-C8	-7.25	100.67	104.30
25	BB	233	A	C5-C6-N1	7.25	121.33	117.70
25	BB	563	A	N1-C2-N3	-7.25	125.67	129.30
3	A1	669	G	C5'-C4'-O4'	7.25	117.80	109.10
3	A1	678	U	C1'-O4'-C4'	7.25	115.70	109.90
25	BB	250	G	C6-N1-C2	-7.25	120.75	125.10
25	BB	586	A	N7-C8-N9	-7.25	110.18	113.80
25	BB	1064	C	C3'-C2'-C1'	7.25	107.30	101.50
25	BB	1522	A	P-O3'-C3'	7.25	128.40	119.70
25	BB	1569	A	C5-N7-C8	-7.25	100.28	103.90
25	BB	2857	G	N3-C2-N2	-7.25	114.83	119.90
1	AP	30	G	N7-C8-N9	7.25	116.72	113.10
3	A1	36	C	C5-C4-N4	7.25	125.27	120.20
3	A1	696	A	C1'-O4'-C4'	-7.25	104.10	109.90
3	A1	934	C	C4'-C3'-C2'	-7.25	95.35	102.60
3	A1	1251	A	C5-C6-N1	7.25	121.32	117.70
24	BA	3	C	N1-C1'-C2'	-7.25	104.03	112.00
25	BB	163	C	C3'-C2'-C1'	7.25	107.30	101.50
25	BB	274	C	N3-C2-O2	-7.25	116.83	121.90
25	BB	350	G	C3'-C2'-C1'	7.25	107.30	101.50
25	BB	486	C	C5-C6-N1	-7.25	117.38	121.00
25	BB	1017	G	C2-N3-C4	7.25	115.52	111.90
25	BB	2012	G	N1-C6-O6	-7.25	115.55	119.90
25	BB	2095	A	C1'-O4'-C4'	-7.25	104.10	109.90
25	BB	2324	U	C3'-C2'-C1'	7.25	107.30	101.50
25	BB	2570	G	C5-C6-N1	7.25	115.12	111.50
50	B1	32	VAL	CA-CB-CG1	7.25	121.77	110.90
1	AE	3	G	N3-C4-C5	-7.25	124.98	128.60
3	A1	183	C	C3'-C2'-C1'	-7.25	95.70	101.50
3	A1	1153	G	C5-N7-C8	-7.25	100.68	104.30
25	BB	2032	G	N9-C4-C5	7.25	108.30	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AE	72	C	C2-N3-C4	-7.24	116.28	119.90
3	A1	57	G	N7-C8-N9	7.24	116.72	113.10
3	A1	118	U	C2-N3-C4	-7.24	122.65	127.00
3	A1	946	A	C5-C6-N6	7.24	129.50	123.70
3	A1	966	G	C4-C5-N7	-7.24	107.90	110.80
3	A1	1383	C	C6-N1-C2	-7.24	117.40	120.30
3	A1	1450	U	N3-C2-O2	-7.24	117.13	122.20
25	BB	329	G	C1'-O4'-C4'	-7.24	104.11	109.90
25	BB	1553	A	O4'-C1'-N9	-7.24	102.41	108.20
25	BB	1668	A	C5-C6-N6	7.24	129.50	123.70
25	BB	2159	G	C5-C6-N1	7.24	115.12	111.50
25	BB	2268	A	C6-N1-C2	-7.24	114.25	118.60
25	BB	2325	G	N3-C2-N2	-7.24	114.83	119.90
25	BB	2363	G	C1'-O4'-C4'	7.24	115.69	109.90
50	B1	181	ILE	O-C-N	-7.24	111.11	122.70
55	B6	53	TYR	CG-CD1-CE1	7.24	127.09	121.30
2	AM	20	U	C5-C6-N1	-7.24	119.08	122.70
3	A1	581	G	O4'-C4'-C3'	7.24	111.89	106.10
3	A1	827	U	N3-C4-C5	-7.24	110.25	114.60
3	A1	1319	A	O3'-P-O5'	-7.24	90.24	104.00
25	BB	382	A	N1-C6-N6	-7.24	114.25	118.60
25	BB	1041	G	C4-C5-C6	7.24	123.14	118.80
25	BB	1185	G	C8-N9-C4	-7.24	103.50	106.40
25	BB	1647	U	C6-N1-C2	-7.24	116.66	121.00
25	BB	1963	U	N1-C2-N3	7.24	119.25	114.90
25	BB	2252	G	N3-C2-N2	-7.24	114.83	119.90
25	BB	2338	C	C4-C5-C6	7.24	121.02	117.40
1	AP	5	A	C8-N9-C4	7.24	108.70	105.80
1	AE	49	C	C6-N1-C2	-7.24	117.40	120.30
3	A1	199	A	C6-C5-N7	7.24	137.37	132.30
3	A1	858	G	C5-N7-C8	-7.24	100.68	104.30
3	A1	864	A	C1'-O4'-C4'	-7.24	104.11	109.90
15	AO	105	VAL	CG1-CB-CG2	-7.24	99.31	110.90
24	BA	6	G	C5-C6-N1	7.24	115.12	111.50
25	BB	540	C	N3-C4-C5	-7.24	119.00	121.90
25	BB	1692	U	C2-N3-C4	-7.24	122.66	127.00
3	A1	189	A	C6-C5-N7	7.24	137.37	132.30
3	A1	477	C	O4'-C1'-N1	7.24	113.99	108.20
3	A1	941	G	C5-N7-C8	-7.24	100.68	104.30
25	BB	94	A	O4'-C4'-C3'	7.24	111.89	106.10
25	BB	261	G	N1-C6-O6	-7.24	115.56	119.90
25	BB	816	C	N1-C2-N3	7.24	124.27	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1252	G	P-O3'-C3'	7.24	128.39	119.70
25	BB	2332	C	N1-C2-N3	7.24	124.27	119.20
25	BB	2379	G	C5'-C4'-C3'	-7.24	104.42	116.00
25	BB	2852	G	C8-N9-C4	-7.24	103.50	106.40
3	A1	1418	A	C5-C6-N1	7.24	121.32	117.70
25	BB	123	G	N7-C8-N9	7.24	116.72	113.10
25	BB	1788	C	N1-C2-O2	7.24	123.24	118.90
25	BB	2266	A	C5-C6-N1	7.24	121.32	117.70
25	BB	2456	C	N3-C4-C5	7.24	124.80	121.90
25	BB	2585	U	C2-N3-C4	-7.24	122.66	127.00
3	A1	11	G	N3-C4-N9	7.24	130.34	126.00
3	A1	122	G	N1-C2-N2	-7.24	109.69	116.20
3	A1	306	A	C6-C5-N7	7.24	137.36	132.30
3	A1	552	U	C2-N3-C4	-7.24	122.66	127.00
3	A1	737	C	C5-C4-N4	-7.24	115.14	120.20
25	BB	526	A	C5-C6-N1	7.24	121.32	117.70
25	BB	2246	G	C2'-C3'-O3'	7.24	125.42	109.50
25	BB	2808	G	N1-C2-N2	-7.24	109.69	116.20
3	A1	210	C	C2-N3-C4	-7.23	116.28	119.90
3	A1	688	G	N3-C4-C5	-7.23	124.98	128.60
3	A1	1013	G	O4'-C1'-C2'	7.23	114.11	107.60
25	BB	450	G	N3-C4-N9	7.23	130.34	126.00
25	BB	1009	A	C5-C6-N6	7.23	129.49	123.70
25	BB	1343	G	N3-C2-N2	-7.23	114.84	119.90
25	BB	1388	G	O4'-C1'-N9	7.23	113.99	108.20
25	BB	2096	C	N1-C2-O2	7.23	123.24	118.90
3	A1	552	U	C3'-C2'-C1'	7.23	107.29	101.50
3	A1	607	A	C6-C5-N7	7.23	137.36	132.30
25	BB	129	C	N3-C4-N4	-7.23	112.94	118.00
25	BB	151	C	N3-C2-O2	-7.23	116.84	121.90
25	BB	207	A	P-O3'-C3'	7.23	128.38	119.70
25	BB	566	U	C1'-O4'-C4'	-7.23	104.11	109.90
25	BB	1238	G	C5'-C4'-O4'	7.23	117.78	109.10
25	BB	1335	C	C2-N3-C4	-7.23	116.28	119.90
25	BB	1651	G	C5-N7-C8	7.23	107.92	104.30
3	A1	226	G	C2'-C3'-O3'	7.23	125.41	109.50
3	A1	330	C	C5-C6-N1	-7.23	117.39	121.00
3	A1	466	A	O4'-C1'-N9	7.23	113.98	108.20
3	A1	718	A	O4'-C1'-C2'	-7.23	98.57	105.80
17	AR	74	TYR	CB-CG-CD1	7.23	125.34	121.00
25	BB	398	C	C2-N3-C4	-7.23	116.28	119.90
25	BB	1707	G	C4-C5-N7	-7.23	107.91	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1948	G	C4'-C3'-C2'	-7.23	95.37	102.60
1	AP	23	A	C4'-C3'-C2'	-7.23	95.37	102.60
3	A1	674	G	N7-C8-N9	7.23	116.71	113.10
15	AO	155	ARG	NE-CZ-NH1	7.23	123.91	120.30
25	BB	1673	G	N1-C2-N2	-7.23	109.69	116.20
25	BB	1883	U	N1-C2-N3	7.23	119.24	114.90
3	A1	307	C	C5'-C4'-C3'	-7.23	104.44	116.00
3	A1	668	G	N3-C4-N9	7.23	130.34	126.00
3	A1	770	C	N3-C2-O2	-7.23	116.84	121.90
3	A1	1005	A	C4-C5-C6	-7.23	113.39	117.00
3	A1	1331	G	O4'-C1'-N9	7.23	113.98	108.20
25	BB	841	G	N3-C2-N2	-7.23	114.84	119.90
25	BB	2645	G	N3-C4-C5	-7.23	124.99	128.60
3	A1	143	A	N1-C6-N6	-7.23	114.26	118.60
3	A1	199	A	C4'-C3'-C2'	-7.23	95.37	102.60
3	A1	1162	C	N1-C2-O2	7.23	123.24	118.90
3	A1	1463	U	C4-C5-C6	7.23	124.03	119.70
25	BB	614	A	O4'-C4'-C3'	7.23	111.88	106.10
25	BB	1310	G	N1-C6-O6	-7.23	115.56	119.90
25	BB	1604	C	C5'-C4'-O4'	7.23	117.77	109.10
25	BB	1722	A	N1-C2-N3	-7.23	125.69	129.30
25	BB	1874	C	P-O3'-C3'	7.23	128.37	119.70
1	AP	39	U	C2-N3-C4	-7.22	122.67	127.00
3	A1	303	A	C8-N9-C4	7.22	108.69	105.80
3	A1	1176	A	C6-C5-N7	7.22	137.36	132.30
3	A1	1279	G	C4-C5-N7	7.22	113.69	110.80
3	A1	1403	C	C5-C6-N1	-7.22	117.39	121.00
3	A1	1439	G	N1-C6-O6	-7.22	115.56	119.90
25	BB	57	C	C4-C5-C6	-7.22	113.79	117.40
25	BB	122	G	N3-C4-C5	-7.22	124.99	128.60
25	BB	1550	C	C1'-O4'-C4'	-7.22	104.12	109.90
25	BB	1689	A	C5-C6-N6	7.22	129.48	123.70
25	BB	2127	G	N7-C8-N9	7.22	116.71	113.10
25	BB	2469	A	C6-N1-C2	-7.22	114.27	118.60
25	BB	2636	C	C5-C6-N1	-7.22	117.39	121.00
25	BB	2721	A	C5-N7-C8	-7.22	100.29	103.90
40	BQ	47	ARG	NE-CZ-NH1	7.22	123.91	120.30
21	AV	19	ALA	N-CA-CB	-7.22	99.99	110.10
25	BB	30	G	N1-C6-O6	-7.22	115.57	119.90
25	BB	206	U	C4-C5-C6	7.22	124.03	119.70
25	BB	759	G	C3'-C2'-C1'	-7.22	95.72	101.50
25	BB	1358	G	C5'-C4'-O4'	7.22	117.77	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1463	C	N3-C4-N4	-7.22	112.94	118.00
25	BB	1692	U	O4'-C4'-C3'	7.22	111.88	106.10
25	BB	1975	G	C8-N9-C4	7.22	109.29	106.40
25	BB	2265	U	N3-C4-C5	7.22	118.93	114.60
2	AM	9	U	C1'-O4'-C4'	-7.22	104.12	109.90
3	A1	462	G	N3-C2-N2	-7.22	114.84	119.90
3	A1	770	C	C5-C6-N1	-7.22	117.39	121.00
3	A1	775	G	C6-N1-C2	-7.22	120.77	125.10
3	A1	1092	A	C2-N3-C4	7.22	114.21	110.60
25	BB	552	U	C6-N1-C2	7.22	125.33	121.00
25	BB	1129	A	O4'-C1'-N9	7.22	113.98	108.20
25	BB	1170	C	N3-C4-C5	7.22	124.79	121.90
25	BB	1399	C	C2-N3-C4	7.22	123.51	119.90
25	BB	2199	A	C8-N9-C4	-7.22	102.91	105.80
25	BB	2895	G	N3-C2-N2	-7.22	114.84	119.90
54	B5	113	ALA	CB-CA-C	7.22	120.93	110.10
1	AP	58	A	C5-N7-C8	-7.22	100.29	103.90
1	AE	19	G	P-O3'-C3'	7.22	128.36	119.70
3	A1	529	G	O4'-C1'-C2'	-7.22	98.58	105.80
3	A1	887	G	N1-C2-N3	7.22	128.23	123.90
25	BB	438	G	N1-C2-N3	7.22	128.23	123.90
25	BB	858	G	C5-N7-C8	-7.22	100.69	104.30
25	BB	1217	U	O4'-C1'-C2'	7.22	114.10	107.60
25	BB	2019	A	C5-C6-N1	7.22	121.31	117.70
25	BB	2136	G	C6-C5-N7	7.22	134.73	130.40
25	BB	2188	U	C5-C6-N1	-7.22	119.09	122.70
25	BB	2419	U	N3-C4-C5	-7.22	110.27	114.60
3	A1	308	C	C2-N3-C4	-7.22	116.29	119.90
25	BB	183	C	N3-C2-O2	-7.22	116.85	121.90
25	BB	2694	G	C4'-C3'-C2'	-7.22	95.38	102.60
25	BB	2866	U	O4'-C4'-C3'	7.22	111.87	106.10
3	A1	452	A	C4-C5-C6	-7.22	113.39	117.00
13	AL	31	ARG	NE-CZ-NH2	7.22	123.91	120.30
25	BB	647	G	N9-C1'-C2'	-7.22	104.06	112.00
25	BB	864	G	C5-C6-N1	7.22	115.11	111.50
25	BB	865	C	N3-C4-N4	-7.22	112.95	118.00
25	BB	954	G	P-O3'-C3'	7.22	128.36	119.70
25	BB	1225	G	C6-N1-C2	-7.22	120.77	125.10
25	BB	1380	G	N3-C4-C5	-7.22	124.99	128.60
25	BB	1836	C	N3-C4-C5	7.22	124.79	121.90
25	BB	2784	U	N1-C2-N3	7.22	119.23	114.90
1	AE	57	G	N3-C4-N9	7.21	130.33	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	71	A	C5-C6-N1	7.21	121.31	117.70
3	A1	307	C	N3-C4-C5	7.21	124.79	121.90
3	A1	508	U	C4-C5-C6	7.21	124.03	119.70
3	A1	922	G	O4'-C4'-C3'	7.21	111.87	106.10
3	A1	1241	G	C1'-O4'-C4'	-7.21	104.13	109.90
17	AR	37	PRO	O-C-N	-7.21	110.93	123.20
25	BB	424	G	N7-C8-N9	7.21	116.71	113.10
25	BB	675	A	C1'-O4'-C4'	-7.21	104.13	109.90
25	BB	1343	G	C5-C6-N1	7.21	115.11	111.50
25	BB	1777	U	C6-N1-C2	-7.21	116.67	121.00
25	BB	2264	C	C6-N1-C2	-7.21	117.41	120.30
25	BB	2708	G	C2-N3-C4	7.21	115.51	111.90
24	BA	114	C	N1-C2-O2	7.21	123.23	118.90
25	BB	424	G	N3-C2-N2	7.21	124.95	119.90
25	BB	481	G	O4'-C1'-N9	7.21	113.97	108.20
25	BB	2332	C	C6-N1-C2	-7.21	117.42	120.30
25	BB	2793	C	N1-C1'-C2'	-7.21	104.07	112.00
1	AA	64	A	C8-N9-C4	-7.21	102.92	105.80
3	A1	268	U	N3-C2-O2	-7.21	117.15	122.20
3	A1	361	G	N1-C6-O6	-7.21	115.57	119.90
3	A1	495	A	C4-C5-C6	-7.21	113.39	117.00
3	A1	701	U	C4-C5-C6	7.21	124.03	119.70
3	A1	1201	A	O5'-P-OP2	-7.21	99.21	105.70
25	BB	676	A	O4'-C1'-N9	-7.21	102.43	108.20
25	BB	716	A	C2-N3-C4	-7.21	107.00	110.60
25	BB	1510	G	C6-C5-N7	7.21	134.73	130.40
25	BB	1893	C	C5'-C4'-O4'	7.21	117.75	109.10
25	BB	2242	G	C2'-C3'-O3'	7.21	125.37	109.50
25	BB	2356	U	C3'-C2'-C1'	7.21	107.27	101.50
25	BB	2373	G	N3-C4-C5	7.21	132.21	128.60
25	BB	2720	U	O4'-C1'-N1	7.21	113.97	108.20
25	BB	2894	G	O4'-C4'-C3'	7.21	111.87	106.10
3	A1	52	C	C5'-C4'-O4'	7.21	117.75	109.10
3	A1	309	A	C4-C5-C6	-7.21	113.39	117.00
25	BB	1906	G	O4'-C1'-N9	-7.21	102.43	108.20
25	BB	2186	G	N3-C4-C5	-7.21	125.00	128.60
25	BB	2641	G	N7-C8-N9	7.21	116.70	113.10
25	BB	278	A	C4'-C3'-C2'	7.21	109.81	102.60
25	BB	367	G	C5-C6-O6	7.21	132.93	128.60
25	BB	520	G	C6-C5-N7	7.21	134.72	130.40
25	BB	669	G	C8-N9-C4	-7.21	103.52	106.40
25	BB	889	C	C5'-C4'-O4'	7.21	117.75	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	983	A	O4'-C1'-N9	7.21	113.97	108.20
25	BB	1137	G	N7-C8-N9	7.21	116.70	113.10
25	BB	1285	A	N1-C2-N3	-7.21	125.70	129.30
25	BB	2075	U	C1'-O4'-C4'	-7.21	104.13	109.90
25	BB	2300	C	C5-C6-N1	-7.21	117.40	121.00
25	BB	2491	U	C3'-C2'-C1'	7.21	107.27	101.50
1	AP	33	U	C1'-O4'-C4'	-7.21	104.14	109.90
3	A1	199	A	C5-C6-N1	7.21	121.30	117.70
3	A1	238	A	N7-C8-N9	7.21	117.40	113.80
3	A1	1191	A	C4'-C3'-C2'	-7.21	95.39	102.60
3	A1	1312	G	N3-C4-C5	-7.21	125.00	128.60
25	BB	449	A	C2'-C3'-O3'	7.21	125.35	109.50
25	BB	533	G	C6-N1-C2	-7.21	120.78	125.10
25	BB	652	U	C2-N3-C4	-7.21	122.68	127.00
25	BB	925	A	C6-N1-C2	7.21	122.92	118.60
25	BB	1186	G	N1-C2-N3	7.21	128.22	123.90
25	BB	1472	C	N1-C2-N3	7.21	124.25	119.20
25	BB	2241	A	P-O3'-C3'	7.21	128.35	119.70
25	BB	2689	U	N3-C4-C5	-7.21	110.28	114.60
3	A1	626	G	C2-N3-C4	-7.21	108.30	111.90
3	A1	1064	G	C4-C5-C6	7.21	123.12	118.80
3	A1	1102	A	C8-N9-C4	-7.21	102.92	105.80
18	AS	68	ARG	CD-NE-CZ	7.21	133.69	123.60
25	BB	561	G	C4-C5-C6	-7.21	114.48	118.80
25	BB	593	U	N3-C2-O2	-7.21	117.16	122.20
25	BB	1198	U	N1-C2-N3	7.21	119.22	114.90
25	BB	1860	G	N3-C4-C5	-7.21	125.00	128.60
25	BB	2508	G	N1-C6-O6	-7.21	115.58	119.90
3	A1	109	A	C6-C5-N7	7.20	137.34	132.30
3	A1	710	G	N1-C6-O6	-7.20	115.58	119.90
25	BB	382	A	C8-N9-C4	-7.20	102.92	105.80
25	BB	749	A	O4'-C4'-C3'	7.20	111.86	106.10
25	BB	899	A	N3-C4-C5	-7.20	121.76	126.80
25	BB	1312	U	C5-C6-N1	-7.20	119.10	122.70
25	BB	1384	A	C5-C6-N1	7.20	121.30	117.70
25	BB	1490	A	N7-C8-N9	7.20	117.40	113.80
25	BB	1557	C	C2-N3-C4	-7.20	116.30	119.90
25	BB	1647	U	N3-C4-C5	-7.20	110.28	114.60
25	BB	1833	C	N3-C2-O2	-7.20	116.86	121.90
25	BB	2020	A	C5-C6-N6	7.20	129.46	123.70
25	BB	2119	A	C6-N1-C2	-7.20	114.28	118.60
25	BB	2171	A	N9-C4-C5	7.20	108.68	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	146	G	N9-C4-C5	7.20	108.28	105.40
3	A1	341	C	N3-C4-N4	-7.20	112.96	118.00
3	A1	542	G	N9-C4-C5	7.20	108.28	105.40
3	A1	1533	C	O3'-P-O5'	-7.20	90.32	104.00
25	BB	1868	C	O4'-C1'-N1	7.20	113.96	108.20
25	BB	1940	U	N1-C2-O2	7.20	127.84	122.80
25	BB	2251	G	C5'-C4'-O4'	7.20	117.74	109.10
25	BB	2723	C	N3-C4-N4	-7.20	112.96	118.00
1	AA	58	A	N1-C2-N3	-7.20	125.70	129.30
3	A1	1369	C	C3'-C2'-C1'	-7.20	95.74	101.50
3	A1	1466	C	N3-C2-O2	-7.20	116.86	121.90
25	BB	281	C	C2-N3-C4	-7.20	116.30	119.90
25	BB	430	A	N3-C4-C5	7.20	131.84	126.80
25	BB	770	G	N1-C2-N3	7.20	128.22	123.90
25	BB	1227	G	C2-N3-C4	7.20	115.50	111.90
25	BB	1405	U	N3-C2-O2	-7.20	117.16	122.20
25	BB	1515	A	C8-N9-C4	-7.20	102.92	105.80
25	BB	2522	U	N1-C2-N3	7.20	119.22	114.90
25	BB	2825	G	N3-C4-C5	-7.20	125.00	128.60
37	BN	131	MET	CG-SD-CE	7.20	111.72	100.20
3	A1	45	G	O4'-C4'-C3'	7.20	111.86	106.10
3	A1	1215	G	C8-N9-C4	-7.20	103.52	106.40
3	A1	1229	A	N1-C6-N6	-7.20	114.28	118.60
3	A1	1366	C	N3-C4-C5	7.20	124.78	121.90
25	BB	17	G	N1-C6-O6	-7.20	115.58	119.90
25	BB	210	C	C5-C6-N1	-7.20	117.40	121.00
25	BB	309	A	N1-C2-N3	7.20	132.90	129.30
25	BB	556	A	N9-C1'-C2'	-7.20	104.08	112.00
25	BB	617	G	N3-C4-C5	-7.20	125.00	128.60
25	BB	738	G	C5-N7-C8	-7.20	100.70	104.30
25	BB	918	A	P-O3'-C3'	7.20	128.34	119.70
25	BB	1918	A	C2-N3-C4	7.20	114.20	110.60
25	BB	1955	U	C3'-C2'-C1'	-7.20	95.74	101.50
25	BB	1988	G	C5-N7-C8	-7.20	100.70	104.30
25	BB	2109	U	C5'-C4'-C3'	-7.20	104.48	116.00
3	A1	620	C	N3-C4-C5	7.20	124.78	121.90
25	BB	252	G	C5-C6-O6	7.20	132.92	128.60
3	A1	127	G	N1-C6-O6	-7.20	115.58	119.90
3	A1	311	C	C5'-C4'-O4'	7.20	117.73	109.10
3	A1	697	U	O5'-P-OP2	-7.20	99.22	105.70
3	A1	777	A	N9-C4-C5	-7.20	102.92	105.80
3	A1	885	G	N9-C4-C5	7.20	108.28	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	935	A	C8-N9-C4	7.20	108.68	105.80
3	A1	1014	A	N9-C4-C5	7.20	108.68	105.80
3	A1	1015	G	C8-N9-C4	-7.20	103.52	106.40
25	BB	76	C	C1'-O4'-C4'	-7.20	104.14	109.90
25	BB	346	A	C6-C5-N7	7.20	137.34	132.30
25	BB	484	C	O4'-C1'-N1	7.20	113.96	108.20
25	BB	651	G	C5-C6-N1	7.20	115.10	111.50
25	BB	764	A	C6-N1-C2	-7.20	114.28	118.60
25	BB	1009	A	N3-C4-N9	7.20	133.16	127.40
25	BB	1192	G	N3-C4-N9	7.20	130.32	126.00
25	BB	1857	G	N9-C4-C5	7.20	108.28	105.40
25	BB	2235	G	C2-N3-C4	-7.20	108.30	111.90
25	BB	2632	A	C5'-C4'-C3'	-7.20	104.49	116.00
27	BD	70	ARG	NE-CZ-NH1	7.20	123.90	120.30
3	A1	1256	A	N1-C2-N3	-7.19	125.70	129.30
25	BB	723	C	N3-C4-N4	-7.19	112.96	118.00
25	BB	847	U	N1-C2-O2	7.19	127.84	122.80
25	BB	1912	A	N1-C6-N6	-7.19	114.28	118.60
25	BB	1960	A	O4'-C1'-C2'	-7.19	98.61	105.80
25	BB	1981	A	C3'-C2'-C1'	-7.19	95.74	101.50
25	BB	2162	G	C6-C5-N7	7.19	134.72	130.40
3	A1	161	A	C4-C5-C6	-7.19	113.40	117.00
3	A1	678	U	C3'-C2'-C1'	7.19	107.25	101.50
3	A1	738	C	O4'-C1'-N1	7.19	113.95	108.20
3	A1	1026	G	C4-C5-C6	7.19	123.12	118.80
3	A1	1194	U	C5'-C4'-O4'	7.19	117.73	109.10
18	AS	144	GLU	OE1-CD-OE2	-7.19	114.67	123.30
25	BB	153	U	N3-C4-O4	-7.19	114.37	119.40
25	BB	533	G	C6-C5-N7	7.19	134.72	130.40
25	BB	696	G	C1'-O4'-C4'	-7.19	104.15	109.90
25	BB	872	U	C3'-C2'-C1'	7.19	107.25	101.50
25	BB	1196	C	N1-C2-O2	7.19	123.22	118.90
25	BB	1521	G	C5-C6-N1	7.19	115.10	111.50
25	BB	1893	C	C2-N3-C4	-7.19	116.30	119.90
25	BB	2528	U	O4'-C4'-C3'	7.19	111.85	106.10
25	BB	2601	C	C5-C6-N1	7.19	124.60	121.00
37	BN	237	ARG	NH1-CZ-NH2	-7.19	111.49	119.40
3	A1	350	G	C5-C6-O6	7.19	132.91	128.60
3	A1	1292	G	C4-N9-C1'	-7.19	117.15	126.50
25	BB	664	G	C2-N3-C4	7.19	115.50	111.90
25	BB	679	C	O3'-P-O5'	-7.19	90.34	104.00
25	BB	1401	G	C1'-O4'-C4'	-7.19	104.15	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1558	C	C6-N1-C2	-7.19	117.42	120.30
25	BB	1887	C	C2'-C3'-O3'	7.19	125.32	109.50
25	BB	2138	G	N1-C6-O6	-7.19	115.59	119.90
25	BB	2238	G	N9-C4-C5	7.19	108.28	105.40
3	A1	147	G	C8-N9-C4	7.19	109.28	106.40
3	A1	1378	C	N1-C2-N3	7.19	124.23	119.20
3	A1	1418	A	C4-C5-N7	-7.19	107.11	110.70
25	BB	61	C	C1'-O4'-C4'	-7.19	104.15	109.90
25	BB	372	G	C8-N9-C4	-7.19	103.52	106.40
25	BB	1631	G	N3-C2-N2	-7.19	114.87	119.90
25	BB	2219	U	C6-N1-C2	-7.19	116.69	121.00
1	AA	8	U	C6-N1-C2	-7.19	116.69	121.00
3	A1	1021	A	C5-N7-C8	-7.19	100.31	103.90
25	BB	103	A	C5-C6-N6	7.19	129.45	123.70
25	BB	885	C	C6-N1-C2	-7.19	117.42	120.30
25	BB	2351	G	N3-C4-C5	-7.19	125.01	128.60
25	BB	2835	A	N1-C2-N3	-7.19	125.71	129.30
25	BB	2846	G	C5-C6-O6	7.19	132.91	128.60
3	A1	112	G	C6-C5-N7	7.19	134.71	130.40
25	BB	2202	U	C4-C5-C6	7.19	124.01	119.70
25	BB	2570	G	N9-C4-C5	7.19	108.27	105.40
3	A1	429	U	C4-C5-C6	7.18	124.01	119.70
3	A1	605	U	N3-C4-C5	-7.18	110.29	114.60
3	A1	786	G	C8-N9-C4	-7.18	103.53	106.40
3	A1	942	G	C8-N9-C4	-7.18	103.53	106.40
24	BA	98	G	C5-C6-N1	7.18	115.09	111.50
25	BB	733	G	C2-N3-C4	7.18	115.49	111.90
25	BB	771	G	C2-N3-C4	7.18	115.49	111.90
25	BB	2426	A	C2-N3-C4	7.18	114.19	110.60
25	BB	2777	G	C4-C5-C6	-7.18	114.49	118.80
1	AE	13	C	N1-C2-O2	7.18	123.21	118.90
3	A1	205	A	C6-C5-N7	7.18	137.33	132.30
25	BB	779	U	N1-C2-O2	7.18	127.83	122.80
25	BB	1300	G	O4'-C1'-N9	-7.18	102.45	108.20
25	BB	1344	U	O4'-C1'-N1	7.18	113.95	108.20
25	BB	1817	G	C5-C6-N1	7.18	115.09	111.50
1	AA	4	G	C6-C5-N7	7.18	134.71	130.40
1	AA	6	U	N1-C2-O2	7.18	127.83	122.80
3	A1	1167	A	C4-C5-C6	-7.18	113.41	117.00
18	AS	127	TYR	CZ-CE2-CD2	7.18	126.26	119.80
25	BB	381	G	O4'-C1'-C2'	-7.18	98.62	105.80
25	BB	849	A	C8-N9-C4	7.18	108.67	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1424	G	N9-C4-C5	7.18	108.27	105.40
25	BB	1920	C	N3-C4-C5	7.18	124.77	121.90
25	BB	1945	G	N3-C4-C5	-7.18	125.01	128.60
3	A1	850	U	N1-C2-O2	7.18	127.83	122.80
3	A1	910	C	N3-C4-C5	7.18	124.77	121.90
3	A1	965	U	C5-C6-N1	-7.18	119.11	122.70
17	AR	127	ARG	NE-CZ-NH1	7.18	123.89	120.30
24	BA	92	C	N3-C4-C5	7.18	124.77	121.90
25	BB	892	A	C6-C5-N7	7.18	137.33	132.30
25	BB	1137	G	C5-N7-C8	-7.18	100.71	104.30
25	BB	1336	A	N7-C8-N9	7.18	117.39	113.80
25	BB	2604	U	N1-C2-O2	7.18	127.83	122.80
25	BB	2610	C	C1'-O4'-C4'	-7.18	104.16	109.90
3	A1	22	G	O4'-C1'-N9	-7.18	102.46	108.20
3	A1	799	G	N3-C4-C5	7.18	132.19	128.60
3	A1	1205	U	P-O3'-C3'	7.18	128.31	119.70
3	A1	1415	G	N3-C4-N9	-7.18	121.69	126.00
25	BB	492	A	C5-C6-N1	7.18	121.29	117.70
25	BB	1173	U	N1-C2-N3	7.18	119.21	114.90
25	BB	1988	G	C5'-C4'-O4'	7.18	117.71	109.10
25	BB	2073	C	O4'-C1'-N1	7.18	113.94	108.20
25	BB	2490	G	N1-C2-N3	7.18	128.21	123.90
1	AE	44	A	C4-C5-C6	-7.18	113.41	117.00
3	A1	654	G	C8-N9-C4	-7.18	103.53	106.40
3	A1	1377	A	N7-C8-N9	7.18	117.39	113.80
24	BA	51	G	C8-N9-C4	-7.18	103.53	106.40
25	BB	264	C	C5-C6-N1	-7.18	117.41	121.00
25	BB	610	C	O4'-C1'-N1	7.18	113.94	108.20
25	BB	986	C	N3-C4-N4	-7.18	112.98	118.00
25	BB	1249	U	N1-C2-N3	7.18	119.20	114.90
25	BB	1769	U	C3'-C2'-C1'	7.18	107.24	101.50
25	BB	2171	A	C2-N3-C4	7.18	114.19	110.60
3	A1	83	C	C4-C5-C6	7.17	120.99	117.40
3	A1	292	G	C1'-O4'-C4'	-7.17	104.16	109.90
3	A1	342	C	C2-N3-C4	-7.17	116.31	119.90
3	A1	354	G	C6-C5-N7	7.17	134.70	130.40
3	A1	1178	G	N1-C2-N2	-7.17	109.74	116.20
3	A1	1334	G	N7-C8-N9	7.17	116.69	113.10
25	BB	123	G	C4-C5-C6	-7.17	114.50	118.80
25	BB	995	C	C6-N1-C2	-7.17	117.43	120.30
25	BB	1327	A	N1-C2-N3	-7.17	125.71	129.30
25	BB	2467	C	N3-C4-N4	-7.17	112.98	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2470	G	C6-C5-N7	7.17	134.70	130.40
25	BB	2829	A	N1-C2-N3	7.17	132.89	129.30
46	BW	33	THR	OG1-CB-CG2	-7.17	93.50	110.00
3	A1	429	U	N3-C2-O2	-7.17	117.18	122.20
3	A1	1179	A	C2-N3-C4	7.17	114.19	110.60
3	A1	1206	G	C4-C5-N7	-7.17	107.93	110.80
3	A1	1504	G	N9-C4-C5	7.17	108.27	105.40
13	AL	31	ARG	NH1-CZ-NH2	-7.17	111.51	119.40
25	BB	579	G	P-O3'-C3'	7.17	128.31	119.70
25	BB	645	C	N3-C2-O2	-7.17	116.88	121.90
3	A1	241	G	N3-C4-N9	7.17	130.30	126.00
3	A1	899	C	N1-C2-O2	7.17	123.20	118.90
3	A1	1134	G	N3-C4-C5	-7.17	125.01	128.60
25	BB	767	U	O4'-C1'-N1	7.17	113.94	108.20
25	BB	789	A	C6-C5-N7	7.17	137.32	132.30
25	BB	1443	U	C2-N3-C4	7.17	131.30	127.00
25	BB	2162	G	O5'-P-OP2	-7.17	99.25	105.70
3	A1	1136	C	C6-N1-C2	-7.17	117.43	120.30
3	A1	1385	G	C6-N1-C2	-7.17	120.80	125.10
25	BB	760	G	C6-C5-N7	7.17	134.70	130.40
25	BB	1064	C	C5-C4-N4	7.17	125.22	120.20
25	BB	1109	C	N3-C4-N4	7.17	123.02	118.00
25	BB	2734	A	O4'-C1'-N9	-7.17	102.46	108.20
2	AM	5	U	C2'-C3'-O3'	7.17	125.27	109.50
3	A1	891	U	C5-C6-N1	-7.17	119.12	122.70
3	A1	895	G	C8-N9-C4	7.17	109.27	106.40
3	A1	1030	U	C3'-C2'-C1'	7.17	107.23	101.50
3	A1	1259	C	C4-C5-C6	-7.17	113.81	117.40
25	BB	760	G	C8-N9-C4	-7.17	103.53	106.40
25	BB	1004	U	C2-N1-C1'	-7.17	109.10	117.70
25	BB	1407	G	N7-C8-N9	7.17	116.69	113.10
25	BB	1837	C	N3-C2-O2	-7.17	116.88	121.90
25	BB	2535	G	N3-C4-N9	7.17	130.30	126.00
31	BH	102	ARG	CD-NE-CZ	7.17	133.64	123.60
37	BN	243	PRO	N-CD-CG	7.17	113.95	103.20
3	A1	714	G	C5-C6-N1	7.17	115.08	111.50
3	A1	1396	A	O4'-C1'-N9	7.17	113.93	108.20
25	BB	81	G	O5'-C5'-C4'	-7.17	98.08	111.70
25	BB	88	G	C4'-C3'-C2'	-7.17	95.43	102.60
25	BB	973	A	O4'-C4'-C3'	7.17	111.83	106.10
25	BB	998	C	C2-N3-C4	-7.17	116.32	119.90
25	BB	2550	G	C5-C6-N1	7.17	115.08	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2690	U	O4'-C1'-N1	7.17	113.93	108.20
25	BB	2826	A	C8-N9-C4	-7.17	102.93	105.80
3	A1	125	U	C1'-O4'-C4'	-7.17	104.17	109.90
3	A1	768	A	C4-C5-N7	-7.17	107.12	110.70
24	BA	40	U	O4'-C1'-N1	7.17	113.93	108.20
25	BB	2056	G	O3'-P-O5'	7.17	117.61	104.00
25	BB	2771	C	N3-C4-N4	-7.17	112.98	118.00
1	AP	42	G	C4-C5-N7	-7.16	107.94	110.80
3	A1	454	G	C5'-C4'-C3'	-7.16	104.54	116.00
3	A1	784	A	O4'-C1'-N9	-7.16	102.47	108.20
3	A1	985	C	N3-C4-C5	7.16	124.77	121.90
3	A1	1278	G	C3'-C2'-C1'	7.16	107.23	101.50
20	AU	137	ARG	NE-CZ-NH1	7.16	123.88	120.30
25	BB	221	A	C1'-O4'-C4'	-7.16	104.17	109.90
25	BB	303	G	C4-C5-N7	-7.16	107.94	110.80
25	BB	497	A	N9-C4-C5	7.16	108.67	105.80
25	BB	1217	U	N3-C2-O2	-7.16	117.19	122.20
25	BB	1318	U	C4-C5-C6	7.16	124.00	119.70
25	BB	1328	A	C1'-O4'-C4'	-7.16	104.17	109.90
25	BB	1687	G	N3-C4-C5	-7.16	125.02	128.60
25	BB	2041	U	C5-C4-O4	-7.16	121.60	125.90
25	BB	2763	G	C5-C6-O6	7.16	132.90	128.60
3	A1	700	G	C5-C6-N1	7.16	115.08	111.50
3	A1	1139	G	N3-C2-N2	-7.16	114.89	119.90
3	A1	1525	G	C5'-C4'-O4'	7.16	117.69	109.10
25	BB	594	U	O4'-C1'-N1	7.16	113.93	108.20
25	BB	775	G	N1-C6-O6	-7.16	115.60	119.90
25	BB	1061	U	C6-N1-C2	-7.16	116.70	121.00
3	A1	217	C	N3-C4-N4	-7.16	112.99	118.00
3	A1	298	A	O4'-C1'-N9	7.16	113.93	108.20
3	A1	533	A	C6-N1-C2	-7.16	114.30	118.60
3	A1	1415	G	N1-C6-O6	-7.16	115.60	119.90
22	AW	108	ARG	NE-CZ-NH2	7.16	123.88	120.30
25	BB	502	A	N1-C2-N3	-7.16	125.72	129.30
25	BB	1055	G	C5-C6-N1	7.16	115.08	111.50
25	BB	1501	G	C2-N3-C4	7.16	115.48	111.90
25	BB	1797	G	O5'-P-OP2	-7.16	99.25	105.70
25	BB	1971	U	N3-C4-O4	-7.16	114.39	119.40
25	BB	1990	C	N3-C2-O2	-7.16	116.89	121.90
25	BB	2419	U	C5-C4-O4	7.16	130.20	125.90
25	BB	2688	G	N1-C6-O6	-7.16	115.60	119.90
25	BB	2843	G	C3'-C2'-C1'	7.16	107.23	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2862	G	N3-C4-C5	-7.16	125.02	128.60
35	BL	75	PHE	CB-CG-CD1	-7.16	115.79	120.80
1	AP	19	G	N9-C4-C5	7.16	108.26	105.40
3	A1	1148	U	N3-C2-O2	-7.16	117.19	122.20
5	AC	126	ARG	CD-NE-CZ	7.16	133.62	123.60
25	BB	74	A	C4-C5-C6	-7.16	113.42	117.00
25	BB	2408	U	N3-C2-O2	-7.16	117.19	122.20
25	BB	2714	G	N3-C4-C5	-7.16	125.02	128.60
25	BB	2722	G	C5-N7-C8	-7.16	100.72	104.30
25	BB	101	A	C2-N3-C4	7.16	114.18	110.60
25	BB	2056	G	N1-C2-N3	7.16	128.19	123.90
1	AA	36	A	C2-N3-C4	7.16	114.18	110.60
1	AE	58	A	C5-C6-N1	7.16	121.28	117.70
3	A1	529	G	C5-C6-O6	7.16	132.89	128.60
3	A1	870	U	N3-C2-O2	-7.16	117.19	122.20
3	A1	915	A	N7-C8-N9	7.16	117.38	113.80
3	A1	1490	U	C4-C5-C6	7.16	123.99	119.70
21	AV	85	TYR	CB-CG-CD1	-7.16	116.71	121.00
25	BB	408	G	C5'-C4'-C3'	-7.16	104.55	116.00
25	BB	458	G	N1-C2-N3	7.16	128.19	123.90
25	BB	1190	G	C3'-C2'-C1'	-7.16	95.78	101.50
25	BB	1232	G	C4-C5-N7	-7.16	107.94	110.80
25	BB	1319	C	N3-C4-C5	7.16	124.76	121.90
25	BB	2014	A	C6-C5-N7	7.16	137.31	132.30
25	BB	2235	G	N1-C2-N3	7.16	128.19	123.90
25	BB	2290	G	C4-C5-C6	-7.16	114.51	118.80
25	BB	2301	C	C2-N3-C4	-7.16	116.32	119.90
25	BB	2705	A	C6-C5-N7	7.16	137.31	132.30
3	A1	14	U	O5'-P-OP2	-7.15	99.26	105.70
3	A1	200	G	C4'-C3'-C2'	-7.15	95.45	102.60
3	A1	278	G	C5'-C4'-O4'	7.15	117.69	109.10
3	A1	1478	U	O4'-C1'-C2'	7.15	114.04	107.60
25	BB	966	G	C6-C5-N7	7.15	134.69	130.40
25	BB	1882	U	C3'-C2'-C1'	-7.15	95.78	101.50
1	AA	13	C	N3-C4-C5	7.15	124.76	121.90
1	AA	31	A	N3-C4-C5	7.15	131.81	126.80
3	A1	21	G	C6-C5-N7	7.15	134.69	130.40
3	A1	435	A	C4'-C3'-C2'	-7.15	95.45	102.60
3	A1	752	G	C6-N1-C2	-7.15	120.81	125.10
24	BA	117	G	N1-C2-N2	-7.15	109.76	116.20
25	BB	19	A	O4'-C1'-N9	7.15	113.92	108.20
25	BB	364	C	N3-C4-N4	-7.15	112.99	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	603	A	C1'-O4'-C4'	-7.15	104.18	109.90
25	BB	966	G	N1-C2-N3	7.15	128.19	123.90
25	BB	1286	A	C4-C5-N7	7.15	114.28	110.70
25	BB	1396	U	C4'-C3'-C2'	-7.15	95.45	102.60
25	BB	1672	A	N9-C4-C5	-7.15	102.94	105.80
25	BB	2648	G	N7-C8-N9	7.15	116.68	113.10
1	AE	64	A	C6-C5-N7	7.15	137.31	132.30
3	A1	477	C	N1-C2-N3	7.15	124.21	119.20
3	A1	613	C	C5-C6-N1	-7.15	117.42	121.00
3	A1	1222	G	C5-C6-N1	7.15	115.08	111.50
25	BB	203	A	C4-C5-C6	-7.15	113.42	117.00
25	BB	555	G	N7-C8-N9	7.15	116.67	113.10
25	BB	821	A	C5'-C4'-O4'	7.15	117.68	109.10
25	BB	1179	G	N1-C2-N3	7.15	128.19	123.90
25	BB	1193	G	C4-C5-C6	-7.15	114.51	118.80
25	BB	1238	G	C6-N1-C2	-7.15	120.81	125.10
25	BB	1322	A	C2-N3-C4	7.15	114.17	110.60
25	BB	2038	G	C1'-O4'-C4'	7.15	115.62	109.90
25	BB	2066	C	O4'-C1'-N1	-7.15	102.48	108.20
25	BB	2601	C	N1-C2-O2	7.15	123.19	118.90
25	BB	2205	A	C6-C5-N7	7.15	137.30	132.30
3	A1	976	G	N1-C2-N2	7.15	122.63	116.20
25	BB	454	A	C4-C5-C6	-7.15	113.43	117.00
25	BB	548	G	N9-C1'-C2'	-7.15	104.14	112.00
25	BB	750	A	C5-N7-C8	-7.15	100.33	103.90
25	BB	2201	G	C2-N3-C4	7.15	115.47	111.90
25	BB	2325	G	C5-C6-N1	7.15	115.07	111.50
25	BB	2705	A	C2-N3-C4	7.15	114.17	110.60
3	A1	28	A	N9-C4-C5	7.15	108.66	105.80
3	A1	502	A	C5'-C4'-O4'	7.15	117.68	109.10
22	AW	129	ARG	CD-NE-CZ	7.15	133.60	123.60
25	BB	210	C	C3'-C2'-C1'	7.15	107.22	101.50
25	BB	337	C	N3-C2-O2	-7.15	116.90	121.90
25	BB	388	G	N1-C6-O6	-7.15	115.61	119.90
25	BB	2331	G	N3-C4-N9	7.15	130.29	126.00
25	BB	2484	G	N1-C2-N2	7.15	122.63	116.20
1	AE	38	A	C5-C6-N1	7.14	121.27	117.70
21	AV	12	ARG	NE-CZ-NH2	-7.14	116.73	120.30
25	BB	412	A	O4'-C1'-N9	7.14	113.92	108.20
25	BB	532	A	C5-C6-N1	7.14	121.27	117.70
25	BB	535	G	C4-N9-C1'	-7.14	117.21	126.50
25	BB	2006	C	C1'-O4'-C4'	-7.14	104.19	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	168	G	N7-C8-N9	-7.14	109.53	113.10
3	A1	189	A	O4'-C1'-N9	7.14	113.91	108.20
3	A1	774	G	N1-C2-N2	-7.14	109.77	116.20
3	A1	905	U	C5-C6-N1	-7.14	119.13	122.70
3	A1	1076	U	C5-C4-O4	-7.14	121.61	125.90
3	A1	1516	G	C5-C6-N1	7.14	115.07	111.50
25	BB	212	G	N7-C8-N9	7.14	116.67	113.10
25	BB	744	U	C6-N1-C2	-7.14	116.72	121.00
25	BB	868	U	C3'-C2'-C1'	7.14	107.21	101.50
25	BB	1168	G	C5-C6-N1	7.14	115.07	111.50
25	BB	1331	G	C5-C6-O6	7.14	132.89	128.60
25	BB	2413	G	C6-N1-C2	-7.14	120.81	125.10
25	BB	2584	U	C4-C5-C6	7.14	123.99	119.70
51	B2	177	ARG	CD-NE-CZ	7.14	133.60	123.60
3	A1	258	G	C5-C6-N1	7.14	115.07	111.50
3	A1	1316	G	C6-N1-C2	-7.14	120.81	125.10
25	BB	151	C	C2'-C3'-O3'	7.14	125.21	109.50
25	BB	159	G	N3-C4-N9	7.14	130.28	126.00
25	BB	1808	A	O4'-C4'-C3'	7.14	111.81	106.10
1	AE	52	U	C4-C5-C6	7.14	123.98	119.70
3	A1	556	C	C2-N3-C4	-7.14	116.33	119.90
25	BB	1870	C	N3-C4-N4	-7.14	113.00	118.00
29	BF	10	ARG	NE-CZ-NH2	-7.14	116.73	120.30
49	BZ	134	PHE	CB-CG-CD1	-7.14	115.80	120.80
3	A1	145	G	N1-C6-O6	-7.14	115.62	119.90
3	A1	913	A	C5-C6-N6	7.14	129.41	123.70
25	BB	619	G	N7-C8-N9	7.14	116.67	113.10
25	BB	1100	C	C5-C4-N4	-7.14	115.20	120.20
25	BB	1688	U	C3'-C2'-C1'	7.14	107.21	101.50
3	A1	591	U	N3-C2-O2	-7.14	117.20	122.20
3	A1	1008	U	O4'-C1'-C2'	7.14	114.02	107.60
3	A1	1189	U	N1-C2-N3	7.14	119.18	114.90
25	BB	85	G	N1-C2-N2	7.14	122.62	116.20
25	BB	478	A	N9-C4-C5	-7.14	102.94	105.80
25	BB	699	A	C5-C6-N6	7.14	129.41	123.70
25	BB	963	U	C5'-C4'-O4'	7.14	117.66	109.10
25	BB	1469	A	C5-C6-N1	7.14	121.27	117.70
25	BB	1681	G	O4'-C4'-C3'	7.14	111.81	106.10
25	BB	1764	C	N3-C2-O2	-7.14	116.91	121.90
3	A1	47	C	O4'-C1'-C2'	-7.13	98.67	105.80
25	BB	5	A	N1-C2-N3	-7.13	125.73	129.30
25	BB	168	G	C4'-C3'-C2'	-7.13	95.47	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	820	A	C5-N7-C8	-7.13	100.33	103.90
25	BB	1631	G	N1-C2-N3	7.13	128.18	123.90
25	BB	1876	A	N1-C2-N3	-7.13	125.73	129.30
32	BI	98	TYR	CD1-CE1-CZ	7.13	126.22	119.80
25	BB	389	G	C5-N7-C8	7.13	107.87	104.30
25	BB	1265	A	C4-C5-C6	-7.13	113.43	117.00
25	BB	1506	U	C4-C5-C6	7.13	123.98	119.70
3	A1	29	U	N3-C4-O4	-7.13	114.41	119.40
3	A1	181	A	C5-C6-N1	7.13	121.27	117.70
3	A1	895	G	C5-C6-N1	7.13	115.07	111.50
3	A1	1506	U	C4-C5-C6	7.13	123.98	119.70
25	BB	583	G	C8-N9-C1'	7.13	136.27	127.00
25	BB	1734	G	N9-C1'-C2'	-7.13	104.16	112.00
25	BB	1909	C	C5-C4-N4	7.13	125.19	120.20
25	BB	1948	G	C5-C6-N1	7.13	115.06	111.50
25	BB	2208	C	N3-C4-C5	7.13	124.75	121.90
25	BB	2284	A	C5-C6-N1	7.13	121.27	117.70
25	BB	2458	G	C8-N9-C4	7.13	109.25	106.40
25	BB	2683	C	N1-C2-O2	7.13	123.18	118.90
3	A1	114	U	C2-N3-C4	-7.13	122.72	127.00
3	A1	923	A	N3-C4-N9	7.13	133.10	127.40
25	BB	263	G	N3-C2-N2	7.13	124.89	119.90
25	BB	573	U	C5-C6-N1	-7.13	119.14	122.70
25	BB	1609	A	C1'-O4'-C4'	7.13	115.60	109.90
25	BB	1694	C	C5'-C4'-O4'	7.13	117.66	109.10
25	BB	2848	G	C6-C5-N7	7.13	134.68	130.40
1	AP	15	G	N3-C2-N2	-7.13	114.91	119.90
3	A1	318	G	C2-N3-C4	7.13	115.47	111.90
3	A1	450	G	N9-C1'-C2'	7.13	123.27	114.00
3	A1	555	U	N3-C2-O2	-7.13	117.21	122.20
3	A1	901	A	N1-C2-N3	-7.13	125.74	129.30
24	BA	26	C	N3-C4-N4	-7.13	113.01	118.00
25	BB	213	A	O4'-C4'-C3'	7.13	111.80	106.10
25	BB	247	G	N3-C4-C5	-7.13	125.03	128.60
25	BB	895	U	C2-N3-C4	-7.13	122.72	127.00
25	BB	1171	G	N1-C2-N3	7.13	128.18	123.90
25	BB	1768	C	N3-C4-N4	-7.13	113.01	118.00
25	BB	1817	G	N1-C2-N2	7.13	122.62	116.20
25	BB	1929	G	N7-C8-N9	7.13	116.66	113.10
25	BB	2133	G	C8-N9-C4	-7.13	103.55	106.40
25	BB	2313	C	N3-C4-N4	-7.13	113.01	118.00
25	BB	2596	U	N3-C4-O4	-7.13	114.41	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2600	A	O4'-C1'-N9	7.13	113.90	108.20
1	AE	43	G	C6-N1-C2	-7.13	120.82	125.10
3	A1	386	C	C2-N3-C4	-7.13	116.34	119.90
3	A1	424	G	N9-C4-C5	7.13	108.25	105.40
3	A1	745	G	N3-C4-C5	-7.13	125.04	128.60
3	A1	1445	U	C4-C5-C6	7.13	123.98	119.70
25	BB	1833	C	C5'-C4'-C3'	-7.13	104.60	116.00
25	BB	1914	C	C5'-C4'-C3'	-7.13	104.60	116.00
27	BD	108	ARG	CD-NE-CZ	7.13	133.58	123.60
3	A1	394	G	N9-C4-C5	7.12	108.25	105.40
25	BB	808	G	C8-N9-C4	-7.12	103.55	106.40
25	BB	1611	C	N3-C4-N4	-7.12	113.01	118.00
2	AM	13	U	C5-C6-N1	-7.12	119.14	122.70
3	A1	1064	G	C1'-O4'-C4'	-7.12	104.20	109.90
3	A1	1213	A	C6-N1-C2	-7.12	114.33	118.60
24	BA	102	G	C6-N1-C2	-7.12	120.83	125.10
25	BB	158	U	N3-C4-O4	-7.12	114.41	119.40
25	BB	268	C	P-O3'-C3'	7.12	128.25	119.70
25	BB	534	U	N3-C4-O4	-7.12	114.41	119.40
25	BB	697	G	C5-C6-N1	7.12	115.06	111.50
25	BB	1410	G	C5-C6-N1	7.12	115.06	111.50
25	BB	2056	G	C5'-C4'-O4'	7.12	117.65	109.10
25	BB	2251	G	C4-C5-C6	-7.12	114.53	118.80
1	AE	4	G	C5-C6-O6	7.12	132.87	128.60
3	A1	1276	G	C5-C6-O6	-7.12	124.33	128.60
3	A1	1433	A	C1'-O4'-C4'	-7.12	104.20	109.90
24	BA	100	G	N1-C6-O6	-7.12	115.63	119.90
24	BA	110	C	C4'-C3'-C2'	-7.12	95.48	102.60
25	BB	240	C	C2'-C3'-O3'	7.12	125.17	109.50
25	BB	630	G	N3-C2-N2	-7.12	114.92	119.90
25	BB	863	A	C5-C6-N6	7.12	129.40	123.70
25	BB	1769	U	N1-C2-N3	7.12	119.17	114.90
25	BB	2198	A	N7-C8-N9	7.12	117.36	113.80
24	BA	81	G	N1-C2-N3	-7.12	119.63	123.90
25	BB	150	U	N3-C2-O2	-7.12	117.22	122.20
25	BB	625	G	N9-C4-C5	7.12	108.25	105.40
25	BB	721	A	C5-N7-C8	7.12	107.46	103.90
25	BB	1159	U	C4'-C3'-C2'	-7.12	95.48	102.60
25	BB	1303	G	C8-N9-C4	-7.12	103.55	106.40
25	BB	1576	U	O4'-C4'-C3'	7.12	111.80	106.10
25	BB	1960	A	O3'-P-O5'	7.12	117.53	104.00
25	BB	2012	G	P-O3'-C3'	7.12	128.25	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	2	C	N3-C4-C5	7.12	124.75	121.90
1	AA	73	A	C5-C6-N1	7.12	121.26	117.70
1	AE	2	C	N3-C4-C5	7.12	124.75	121.90
1	AE	23	A	O5'-P-OP2	-7.12	99.29	105.70
3	A1	629	A	C2'-C3'-O3'	7.12	125.16	109.50
3	A1	780	A	N9-C4-C5	7.12	108.65	105.80
3	A1	795	C	N1-C2-N3	7.12	124.18	119.20
3	A1	799	G	N1-C6-O6	-7.12	115.63	119.90
24	BA	52	A	C5'-C4'-O4'	7.12	117.64	109.10
25	BB	147	C	O4'-C1'-N1	7.12	113.89	108.20
25	BB	1204	A	C2-N3-C4	7.12	114.16	110.60
25	BB	1488	C	N3-C2-O2	-7.12	116.92	121.90
25	BB	1608	A	O4'-C1'-N9	7.12	113.89	108.20
25	BB	1647	U	N1-C1'-C2'	-7.12	104.17	112.00
25	BB	2129	C	C4'-C3'-C2'	-7.12	95.48	102.60
25	BB	2279	G	N1-C6-O6	-7.12	115.63	119.90
2	AM	12	U	P-O3'-C3'	7.12	128.24	119.70
3	A1	426	U	C6-N1-C2	-7.12	116.73	121.00
3	A1	498	A	C5-C6-N6	7.12	129.39	123.70
25	BB	438	G	C5-C6-N1	7.12	115.06	111.50
25	BB	463	G	C5-C6-O6	7.12	132.87	128.60
25	BB	632	A	N7-C8-N9	7.12	117.36	113.80
25	BB	994	C	C2-N3-C4	-7.12	116.34	119.90
25	BB	1616	A	C6-C5-N7	7.12	137.28	132.30
25	BB	2863	C	C4'-C3'-C2'	-7.12	95.48	102.60
1	AE	2	C	O4'-C4'-C3'	7.12	111.79	106.10
3	A1	331	G	C5-C6-O6	7.12	132.87	128.60
3	A1	528	C	C4'-C3'-C2'	-7.12	95.48	102.60
3	A1	1114	C	C6-N1-C2	-7.12	117.45	120.30
24	BA	4	C	C2-N3-C4	-7.12	116.34	119.90
25	BB	120	U	N1-C2-N3	7.12	119.17	114.90
25	BB	313	G	C4-C5-C6	-7.12	114.53	118.80
25	BB	529	A	OP2-P-O3'	7.12	120.86	105.20
25	BB	669	G	C1'-O4'-C4'	-7.12	104.21	109.90
25	BB	776	G	C5-C6-O6	7.12	132.87	128.60
25	BB	1118	C	N1-C2-O2	7.12	123.17	118.90
25	BB	1482	G	N9-C4-C5	7.12	108.25	105.40
25	BB	2454	G	C6-N1-C2	-7.12	120.83	125.10
25	BB	2498	C	C5-C6-N1	-7.12	117.44	121.00
25	BB	2771	C	N1-C2-O2	7.12	123.17	118.90
25	BB	2818	U	C6-N1-C2	-7.12	116.73	121.00
1	AA	29	A	N1-C2-N3	-7.11	125.74	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	279	A	O5'-P-OP1	-7.11	99.30	105.70
3	A1	339	C	N1-C2-O2	7.11	123.17	118.90
3	A1	846	G	N3-C4-C5	7.11	132.16	128.60
3	A1	1101	A	C2-N3-C4	7.11	114.16	110.60
3	A1	1340	A	C6-N1-C2	-7.11	114.33	118.60
25	BB	1922	G	N1-C6-O6	-7.11	115.63	119.90
25	BB	2085	U	C5-C6-N1	-7.11	119.14	122.70
25	BB	2198	A	C6-C5-N7	7.11	137.28	132.30
25	BB	2536	G	C3'-C2'-C1'	-7.11	95.81	101.50
3	A1	729	A	N1-C2-N3	7.11	132.86	129.30
3	A1	1248	A	N1-C2-N3	7.11	132.86	129.30
25	BB	292	U	N3-C2-O2	-7.11	117.22	122.20
25	BB	385	C	C5-C6-N1	-7.11	117.44	121.00
25	BB	708	G	N3-C4-C5	-7.11	125.04	128.60
25	BB	1308	A	O4'-C1'-N9	7.11	113.89	108.20
25	BB	1787	A	C6-N1-C2	-7.11	114.33	118.60
25	BB	2212	A	C4'-C3'-C2'	7.11	109.71	102.60
3	A1	55	A	C3'-C2'-C1'	7.11	107.19	101.50
3	A1	718	A	C1'-O4'-C4'	-7.11	104.21	109.90
24	BA	77	U	O4'-C1'-N1	7.11	113.89	108.20
25	BB	430	A	N9-C4-C5	7.11	108.64	105.80
25	BB	472	A	N1-C2-N3	-7.11	125.74	129.30
25	BB	506	G	N3-C2-N2	-7.11	114.92	119.90
25	BB	944	C	C6-N1-C2	-7.11	117.46	120.30
25	BB	1757	A	C4-C5-C6	-7.11	113.44	117.00
25	BB	1762	A	N7-C8-N9	7.11	117.36	113.80
25	BB	2725	A	O4'-C1'-N9	7.11	113.89	108.20
3	A1	52	C	C4-C5-C6	7.11	120.95	117.40
3	A1	253	A	N1-C2-N3	-7.11	125.75	129.30
3	A1	325	A	C5'-C4'-C3'	-7.11	104.63	116.00
3	A1	575	G	O4'-C1'-N9	-7.11	102.51	108.20
25	BB	2631	G	N1-C2-N3	7.11	128.16	123.90
25	BB	2636	C	N1-C2-N3	7.11	124.18	119.20
1	AA	53	G	C5'-C4'-C3'	-7.11	104.63	116.00
1	AE	12	U	C5'-C4'-O4'	7.11	117.63	109.10
3	A1	289	G	N3-C4-C5	-7.11	125.05	128.60
3	A1	689	C	N1-C2-N3	7.11	124.17	119.20
3	A1	1179	A	C5-C6-N1	7.11	121.25	117.70
25	BB	225	C	C6-N1-C2	-7.11	117.46	120.30
25	BB	468	G	C2-N3-C4	7.11	115.45	111.90
25	BB	690	G	N1-C2-N3	7.11	128.16	123.90
25	BB	2125	G	C8-N9-C4	7.11	109.24	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2376	A	C4-C5-C6	-7.11	113.45	117.00
25	BB	2521	C	C4-C5-C6	-7.11	113.85	117.40
3	A1	21	G	C2-N3-C4	7.11	115.45	111.90
3	A1	162	A	O4'-C1'-N9	-7.11	102.52	108.20
3	A1	236	A	N3-C4-C5	-7.11	121.83	126.80
3	A1	1012	A	C8-N9-C4	-7.11	102.96	105.80
25	BB	80	G	N1-C6-O6	-7.11	115.64	119.90
25	BB	124	G	N7-C8-N9	7.11	116.65	113.10
25	BB	232	G	N9-C4-C5	7.11	108.24	105.40
25	BB	1637	A	C5-C6-N1	7.11	121.25	117.70
25	BB	1852	U	N3-C2-O2	-7.11	117.23	122.20
25	BB	2052	A	N9-C1'-C2'	7.11	123.24	114.00
25	BB	2084	C	C3'-C2'-C1'	7.11	107.18	101.50
25	BB	2277	G	C4-C5-N7	7.11	113.64	110.80
25	BB	2294	G	C8-N9-C4	-7.11	103.56	106.40
25	BB	2523	G	N3-C4-C5	-7.11	125.05	128.60
25	BB	2844	G	C3'-C2'-C1'	-7.11	95.81	101.50
3	A1	230	G	C5-C6-N1	7.10	115.05	111.50
3	A1	284	C	C4-C5-C6	-7.10	113.85	117.40
16	AQ	37	TYR	CB-CG-CD1	-7.10	116.74	121.00
25	BB	895	U	N3-C4-C5	7.10	118.86	114.60
25	BB	2444	G	C5'-C4'-C3'	7.10	127.37	116.00
25	BB	2865	U	N3-C2-O2	-7.10	117.23	122.20
1	AA	29	A	C4-C5-N7	7.10	114.25	110.70
3	A1	716	A	C4'-C3'-C2'	-7.10	95.50	102.60
3	A1	977	A	C3'-C2'-C1'	7.10	107.18	101.50
3	A1	1187	G	C4-C5-N7	-7.10	107.96	110.80
25	BB	332	A	C1'-O4'-C4'	7.10	115.58	109.90
25	BB	913	U	N3-C4-O4	-7.10	114.43	119.40
25	BB	1738	G	N1-C6-O6	-7.10	115.64	119.90
25	BB	2430	A	C5'-C4'-C3'	-7.10	104.64	116.00
25	BB	2602	A	O4'-C1'-N9	-7.10	102.52	108.20
3	A1	297	G	C3'-C2'-C1'	7.10	107.18	101.50
3	A1	783	C	C4-C5-C6	7.10	120.95	117.40
3	A1	1317	C	N3-C4-N4	-7.10	113.03	118.00
25	BB	782	A	C6-N1-C2	-7.10	114.34	118.60
25	BB	1475	G	O4'-C1'-C2'	-7.10	98.70	105.80
25	BB	1604	C	C1'-O4'-C4'	-7.10	104.22	109.90
25	BB	1762	A	C6-C5-N7	7.10	137.27	132.30
25	BB	1957	C	N1-C2-O2	7.10	123.16	118.90
25	BB	2820	A	O4'-C1'-C2'	-7.10	98.70	105.80
25	BB	6	A	C2-N3-C4	7.10	114.15	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	76	C	N1-C1'-C2'	-7.10	104.19	112.00
25	BB	1048	A	C8-N9-C4	7.10	108.64	105.80
25	BB	1753	G	O4'-C1'-N9	-7.10	102.52	108.20
25	BB	2122	U	N1-C1'-C2'	-7.10	104.19	112.00
25	BB	2671	G	N3-C4-N9	7.10	130.26	126.00
52	B3	126	THR	CA-CB-CG2	7.10	122.34	112.40
3	A1	54	C	C5-C4-N4	7.10	125.17	120.20
3	A1	550	G	C8-N9-C4	-7.10	103.56	106.40
3	A1	895	G	N3-C2-N2	-7.10	114.93	119.90
25	BB	426	C	N3-C2-O2	-7.10	116.93	121.90
25	BB	2406	A	C2-N3-C4	7.10	114.15	110.60
25	BB	2411	A	C4-C5-C6	-7.10	113.45	117.00
25	BB	2608	G	O4'-C1'-N9	-7.10	102.52	108.20
25	BB	2749	A	C6-N1-C2	-7.10	114.34	118.60
25	BB	2794	C	N1-C2-N3	7.10	124.17	119.20
3	A1	846	G	N1-C2-N3	7.10	128.16	123.90
3	A1	948	C	C4-C5-C6	7.10	120.95	117.40
25	BB	220	G	C8-N9-C1'	7.10	136.22	127.00
25	BB	719	C	N3-C4-C5	7.10	124.74	121.90
25	BB	1308	A	C6-C5-N7	7.10	137.27	132.30
25	BB	1423	G	N3-C4-C5	-7.10	125.05	128.60
25	BB	2557	G	C6-C5-N7	7.10	134.66	130.40
3	A1	388	G	C6-N1-C2	-7.09	120.84	125.10
3	A1	639	G	C6-N1-C2	-7.09	120.84	125.10
3	A1	854	U	N3-C4-O4	7.09	124.37	119.40
3	A1	866	C	C2-N1-C1'	7.09	126.60	118.80
3	A1	1025	U	O4'-C4'-C3'	7.09	111.78	106.10
3	A1	1127	G	C3'-C2'-C1'	-7.09	95.82	101.50
3	A1	1146	A	C6-N1-C2	-7.09	114.34	118.60
15	AO	200	TRP	CZ3-CH2-CZ2	-7.09	113.08	121.60
25	BB	591	U	N3-C4-C5	7.09	118.86	114.60
25	BB	1045	C	N1-C2-N3	7.09	124.17	119.20
25	BB	1330	C	C5-C4-N4	7.09	125.17	120.20
25	BB	1964	G	N1-C6-O6	-7.09	115.64	119.90
25	BB	2175	C	C5'-C4'-C3'	-7.09	104.65	116.00
25	BB	2297	A	C5'-C4'-O4'	7.09	117.61	109.10
25	BB	2505	G	C4'-C3'-C2'	-7.09	95.51	102.60
25	BB	2514	U	O4'-C4'-C3'	-7.09	96.91	104.00
25	BB	2873	A	C6-N1-C2	-7.09	114.34	118.60
3	A1	462	G	C6-C5-N7	7.09	134.66	130.40
3	A1	690	G	N1-C2-N3	-7.09	119.64	123.90
3	A1	997	U	C2-N3-C4	-7.09	122.74	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	108	G	C6-N1-C2	-7.09	120.84	125.10
25	BB	572	A	O4'-C1'-N9	7.09	113.87	108.20
25	BB	1111	A	C8-N9-C4	-7.09	102.96	105.80
25	BB	1492	G	N1-C6-O6	-7.09	115.64	119.90
25	BB	1820	U	C4'-C3'-C2'	-7.09	95.51	102.60
25	BB	2127	G	C8-N9-C4	-7.09	103.56	106.40
3	A1	76	G	C1'-O4'-C4'	7.09	115.57	109.90
3	A1	193	C	C5-C6-N1	-7.09	117.45	121.00
3	A1	586	C	C2-N3-C4	-7.09	116.35	119.90
3	A1	614	C	O4'-C1'-N1	7.09	113.87	108.20
3	A1	682	G	N1-C6-O6	-7.09	115.64	119.90
3	A1	1062	U	C1'-O4'-C4'	-7.09	104.23	109.90
3	A1	1264	U	C1'-O4'-C4'	-7.09	104.23	109.90
7	AF	19	THR	CA-CB-CG2	7.09	122.33	112.40
24	BA	16	G	C4-C5-C6	-7.09	114.55	118.80
25	BB	215	G	C5-C6-N1	7.09	115.05	111.50
25	BB	318	C	C2-N1-C1'	-7.09	111.00	118.80
25	BB	583	G	C6-N1-C2	-7.09	120.84	125.10
25	BB	669	G	C5-N7-C8	-7.09	100.75	104.30
25	BB	727	A	N7-C8-N9	-7.09	110.25	113.80
37	BN	53	ILE	C-N-CA	7.09	137.19	122.30
1	AP	9	A	C8-N9-C4	-7.09	102.96	105.80
1	AP	75	C	N3-C4-C5	7.09	124.74	121.90
1	AE	1	G	C6-N1-C2	-7.09	120.85	125.10
3	A1	959	A	C2-N3-C4	7.09	114.14	110.60
25	BB	119	A	C8-N9-C4	-7.09	102.96	105.80
25	BB	576	U	C5-C4-O4	7.09	130.15	125.90
25	BB	1757	A	C5-C6-N1	7.09	121.25	117.70
25	BB	2623	G	C6-N1-C2	-7.09	120.85	125.10
25	BB	2751	G	C3'-C2'-C1'	7.09	107.17	101.50
1	AE	70	C	O4'-C1'-N1	7.09	113.87	108.20
3	A1	782	A	C5-C6-N1	7.09	121.24	117.70
25	BB	1056	G	N3-C4-N9	7.09	130.25	126.00
25	BB	1549	A	N1-C2-N3	7.09	132.84	129.30
25	BB	1560	G	C4-C5-C6	-7.09	114.55	118.80
25	BB	1695	G	C6-N1-C2	-7.09	120.85	125.10
25	BB	2447	G	C5-N7-C8	-7.09	100.76	104.30
3	A1	225	C	C4'-C3'-C2'	-7.09	95.51	102.60
3	A1	1430	A	O4'-C1'-N9	7.09	113.87	108.20
19	AT	82	ASP	CB-CG-OD2	7.09	124.68	118.30
25	BB	1240	U	O4'-C1'-C2'	-7.09	98.71	105.80
25	BB	1393	A	N7-C8-N9	7.09	117.34	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1851	U	N3-C2-O2	-7.09	117.24	122.20
25	BB	1955	U	N1-C2-N3	7.09	119.15	114.90
25	BB	2036	C	C6-N1-C2	-7.09	117.47	120.30
25	BB	2150	C	N3-C4-C5	7.09	124.73	121.90
25	BB	2265	U	C5'-C4'-O4'	7.09	117.60	109.10
25	BB	2876	G	N3-C4-N9	7.09	130.25	126.00
1	AE	31	A	C6-C5-N7	7.08	137.26	132.30
3	A1	252	U	N1-C2-O2	-7.08	117.84	122.80
3	A1	595	A	C6-N1-C2	-7.08	114.35	118.60
37	BN	257	ARG	NE-CZ-NH2	7.08	123.84	120.30
25	BB	5	A	C6-C5-N7	7.08	137.26	132.30
25	BB	48	G	N3-C4-C5	-7.08	125.06	128.60
25	BB	1190	G	C8-N9-C1'	-7.08	117.79	127.00
25	BB	1327	A	O4'-C1'-N9	-7.08	102.53	108.20
25	BB	2487	G	C5-C6-N1	7.08	115.04	111.50
1	AE	44	A	C6-N1-C2	-7.08	114.35	118.60
3	A1	19	A	C2-N3-C4	7.08	114.14	110.60
3	A1	130	A	C6-C5-N7	7.08	137.26	132.30
3	A1	305	G	C5-C6-N1	7.08	115.04	111.50
3	A1	311	C	C2-N3-C4	-7.08	116.36	119.90
3	A1	326	G	C4-C5-N7	-7.08	107.97	110.80
3	A1	800	G	C5-C6-O6	7.08	132.85	128.60
3	A1	969	A	N7-C8-N9	-7.08	110.26	113.80
25	BB	151	C	N1-C2-O2	7.08	123.15	118.90
25	BB	682	G	C5-N7-C8	7.08	107.84	104.30
25	BB	708	G	C5-C6-N1	7.08	115.04	111.50
25	BB	861	A	C3'-C2'-C1'	-7.08	95.83	101.50
25	BB	1009	A	O4'-C1'-N9	-7.08	102.53	108.20
25	BB	1328	A	C4-C5-N7	-7.08	107.16	110.70
25	BB	2489	U	N3-C4-O4	-7.08	114.44	119.40
25	BB	2820	A	N9-C4-C5	7.08	108.63	105.80
1	AE	62	A	C8-N9-C4	-7.08	102.97	105.80
3	A1	298	A	C5-C6-N6	7.08	129.36	123.70
3	A1	396	C	C1'-O4'-C4'	-7.08	104.24	109.90
3	A1	572	A	C5-C6-N6	7.08	129.36	123.70
25	BB	299	A	C5-N7-C8	-7.08	100.36	103.90
25	BB	902	C	O4'-C1'-N1	7.08	113.86	108.20
25	BB	1647	U	C5'-C4'-C3'	7.08	127.33	116.00
25	BB	2196	C	C3'-C2'-C1'	-7.08	95.84	101.50
3	A1	22	G	C8-N9-C4	-7.08	103.57	106.40
3	A1	581	G	C5-N7-C8	-7.08	100.76	104.30
3	A1	725	G	C2'-C3'-O3'	7.08	125.07	109.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	734	G	C8-N9-C4	-7.08	103.57	106.40
25	BB	252	G	N1-C2-N3	7.08	128.15	123.90
25	BB	860	U	O4'-C1'-N1	7.08	113.86	108.20
25	BB	1892	C	N3-C2-O2	-7.08	116.94	121.90
25	BB	2111	U	N1-C2-O2	7.08	127.75	122.80
3	A1	442	G	C6-N1-C2	-7.08	120.85	125.10
25	BB	1164	C	N3-C4-C5	7.08	124.73	121.90
25	BB	1517	G	N3-C2-N2	-7.08	114.95	119.90
25	BB	1879	C	N1-C2-O2	7.08	123.15	118.90
25	BB	2468	A	C6-C5-N7	7.08	137.25	132.30
3	A1	940	C	C4'-C3'-C2'	-7.08	95.52	102.60
3	A1	1368	A	C6-C5-N7	7.08	137.25	132.30
25	BB	529	A	N9-C4-C5	7.08	108.63	105.80
25	BB	1524	G	N3-C2-N2	-7.08	114.95	119.90
25	BB	1598	A	C2-N3-C4	-7.08	107.06	110.60
25	BB	1652	A	C1'-O4'-C4'	-7.08	104.24	109.90
25	BB	2626	C	P-O3'-C3'	7.08	128.19	119.70
25	BB	2626	C	N3-C4-C5	7.08	124.73	121.90
3	A1	631	C	N3-C2-O2	-7.07	116.95	121.90
3	A1	1276	G	C5-N7-C8	-7.07	100.76	104.30
25	BB	616	A	N1-C2-N3	-7.07	125.76	129.30
25	BB	1109	C	N1-C2-N3	7.07	124.15	119.20
25	BB	2008	C	C2-N3-C4	-7.07	116.36	119.90
25	BB	2019	A	O4'-C4'-C3'	7.07	111.76	106.10
25	BB	2414	G	O4'-C1'-N9	-7.07	102.54	108.20
25	BB	2769	U	C5-C6-N1	-7.07	119.16	122.70
50	B1	177	PRO	CA-N-CD	-7.07	101.60	111.50
1	AE	59	U	O4'-C1'-N1	7.07	113.86	108.20
3	A1	538	G	C4-C5-N7	7.07	113.63	110.80
3	A1	697	U	C6-N1-C2	-7.07	116.76	121.00
24	BA	46	A	O4'-C1'-N9	7.07	113.86	108.20
25	BB	431	U	C5-C6-N1	-7.07	119.16	122.70
25	BB	714	U	P-O3'-C3'	7.07	128.19	119.70
25	BB	854	C	C4'-C3'-C2'	-7.07	95.53	102.60
25	BB	936	A	C5-N7-C8	-7.07	100.36	103.90
25	BB	2192	U	N1-C1'-C2'	-7.07	104.22	112.00
25	BB	2272	U	N1-C2-O2	7.07	127.75	122.80
1	AP	2	C	O4'-C1'-N1	7.07	113.86	108.20
1	AE	48	C	C4'-C3'-C2'	-7.07	95.53	102.60
3	A1	314	C	C5-C4-N4	-7.07	115.25	120.20
3	A1	690	G	C5-C6-N1	7.07	115.04	111.50
3	A1	993	G	C8-N9-C4	7.07	109.23	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	43	G	C5-C6-O6	-7.07	124.36	128.60
25	BB	578	G	N1-C2-N3	7.07	128.14	123.90
25	BB	1379	U	C5-C4-O4	-7.07	121.66	125.90
25	BB	1515	A	O4'-C1'-N9	7.07	113.86	108.20
30	BG	96	ARG	NE-CZ-NH1	7.07	123.84	120.30
3	A1	239	U	C6-N1-C2	-7.07	116.76	121.00
3	A1	859	G	C1'-O4'-C4'	-7.07	104.24	109.90
25	BB	1075	C	N3-C2-O2	-7.07	116.95	121.90
25	BB	1190	G	C6-N1-C2	-7.07	120.86	125.10
25	BB	1210	G	C5-C6-O6	7.07	132.84	128.60
25	BB	1505	A	C5-N7-C8	-7.07	100.37	103.90
25	BB	2084	C	C5-C4-N4	-7.07	115.25	120.20
3	A1	930	C	N1-C2-O2	7.07	123.14	118.90
3	A1	1124	G	N3-C4-C5	-7.07	125.07	128.60
3	A1	1501	C	N3-C4-N4	-7.07	113.05	118.00
25	BB	357	C	C6-N1-C2	-7.07	117.47	120.30
25	BB	1695	G	N3-C4-C5	-7.07	125.07	128.60
25	BB	1824	G	N1-C6-O6	-7.07	115.66	119.90
25	BB	1867	G	O4'-C1'-N9	-7.07	102.55	108.20
25	BB	1925	C	N1-C2-O2	7.07	123.14	118.90
25	BB	2020	A	C6-C5-N7	7.07	137.25	132.30
44	BU	5	ARG	NE-CZ-NH2	7.07	123.83	120.30
49	BZ	109	TRP	CH2-CZ2-CE2	7.07	124.47	117.40
3	A1	135	C	N3-C4-C5	7.07	124.73	121.90
3	A1	157	U	O4'-C1'-N1	7.07	113.85	108.20
3	A1	347	G	C5-N7-C8	-7.07	100.77	104.30
3	A1	391	G	O4'-C1'-N9	7.07	113.85	108.20
3	A1	805	C	C1'-O4'-C4'	-7.07	104.25	109.90
3	A1	833	G	C5-N7-C8	7.07	107.83	104.30
3	A1	838	G	O4'-C1'-C2'	7.07	113.96	107.60
24	BA	66	A	C4'-C3'-C2'	-7.07	95.53	102.60
25	BB	108	G	C2-N3-C4	7.07	115.43	111.90
25	BB	155	A	C5'-C4'-O4'	7.07	117.58	109.10
25	BB	588	U	N1-C2-N3	7.07	119.14	114.90
25	BB	1222	U	N3-C2-O2	-7.07	117.25	122.20
25	BB	2849	U	C4-C5-C6	7.07	123.94	119.70
3	A1	619	U	C5-C4-O4	-7.06	121.66	125.90
3	A1	1003	G	O5'-P-OP1	-7.06	99.34	105.70
25	BB	105	C	C1'-O4'-C4'	-7.06	104.25	109.90
25	BB	772	C	N3-C4-N4	-7.06	113.06	118.00
25	BB	2687	U	N1-C2-N3	7.06	119.14	114.90
3	A1	383	A	C5'-C4'-O4'	7.06	117.58	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	954	G	C1'-O4'-C4'	-7.06	104.25	109.90
25	BB	568	U	C3'-C2'-C1'	7.06	107.15	101.50
25	BB	800	A	C4'-C3'-C2'	-7.06	95.54	102.60
25	BB	1145	C	N3-C2-O2	-7.06	116.96	121.90
25	BB	1892	C	C4-C5-C6	-7.06	113.87	117.40
25	BB	2081	U	N1-C2-N3	7.06	119.14	114.90
25	BB	2205	A	C4-C5-N7	-7.06	107.17	110.70
25	BB	2843	G	N1-C2-N2	-7.06	109.84	116.20
3	A1	1103	C	N3-C4-N4	-7.06	113.06	118.00
3	A1	1439	G	C6-C5-N7	7.06	134.64	130.40
25	BB	996	A	O4'-C4'-C3'	-7.06	96.94	104.00
25	BB	1934	C	C6-N1-C2	-7.06	117.48	120.30
25	BB	2405	G	C4'-C3'-C2'	-7.06	95.54	102.60
25	BB	2768	U	C4-C5-C6	7.06	123.94	119.70
3	A1	465	A	O5'-P-OP2	-7.06	99.35	105.70
3	A1	479	U	C6-N1-C2	-7.06	116.76	121.00
3	A1	493	A	C6-C5-N7	7.06	137.24	132.30
3	A1	515	G	N3-C4-N9	7.06	130.24	126.00
3	A1	618	C	N3-C2-O2	-7.06	116.96	121.90
3	A1	622	A	C6-C5-N7	7.06	137.24	132.30
3	A1	696	A	C6-N1-C2	-7.06	114.36	118.60
3	A1	1171	A	C2-N3-C4	7.06	114.13	110.60
25	BB	108	G	C5-C6-O6	-7.06	124.36	128.60
25	BB	163	C	N3-C4-C5	7.06	124.72	121.90
25	BB	430	A	C6-C5-N7	7.06	137.24	132.30
25	BB	649	G	C8-N9-C4	7.06	109.22	106.40
25	BB	788	A	N1-C6-N6	-7.06	114.36	118.60
25	BB	918	A	C5'-C4'-O4'	7.06	117.57	109.10
25	BB	1405	U	C1'-O4'-C4'	-7.06	104.25	109.90
25	BB	1895	C	C6-N1-C2	-7.06	117.48	120.30
25	BB	2229	U	C2-N3-C4	-7.06	122.76	127.00
25	BB	2504	U	C6-N1-C2	-7.06	116.76	121.00
25	BB	2846	G	N9-C4-C5	7.06	108.22	105.40
3	A1	83	C	C3'-C2'-C1'	7.06	107.15	101.50
3	A1	169	C	C4-C5-C6	-7.06	113.87	117.40
3	A1	494	G	O4'-C1'-N9	7.06	113.85	108.20
25	BB	200	U	N3-C2-O2	-7.06	117.26	122.20
25	BB	931	U	N1-C2-O2	7.06	127.74	122.80
25	BB	1218	G	N7-C8-N9	7.06	116.63	113.10
25	BB	1615	C	C3'-C2'-C1'	7.06	107.15	101.50
25	BB	1623	G	N1-C2-N3	7.06	128.13	123.90
25	BB	1989	G	O4'-C1'-N9	7.06	113.84	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2273	A	N9-C4-C5	7.06	108.62	105.80
25	BB	2278	A	C2-N3-C4	7.06	114.13	110.60
29	BF	40	ARG	NE-CZ-NH2	-7.06	116.77	120.30
55	B6	96	ARG	NH1-CZ-NH2	-7.06	111.64	119.40
3	A1	152	A	C2-N3-C4	7.06	114.13	110.60
3	A1	371	A	C4-C5-C6	-7.06	113.47	117.00
3	A1	457	G	C5-N7-C8	-7.06	100.77	104.30
25	BB	1662	U	C2-N1-C1'	7.06	126.17	117.70
25	BB	1682	G	N9-C4-C5	7.06	108.22	105.40
25	BB	1934	C	O4'-C1'-C2'	-7.06	98.74	105.80
25	BB	2430	A	N1-C2-N3	7.06	132.83	129.30
25	BB	2562	U	N3-C2-O2	-7.06	117.26	122.20
25	BB	2839	G	C5-N7-C8	-7.06	100.77	104.30
43	BT	44	ALA	CB-CA-C	7.06	120.68	110.10
3	A1	179	A	C6-C5-N7	7.05	137.24	132.30
3	A1	554	A	C2-N3-C4	7.05	114.13	110.60
3	A1	1365	G	N9-C1'-C2'	7.05	123.17	114.00
25	BB	410	G	N1-C2-N3	7.05	128.13	123.90
25	BB	1187	G	C8-N9-C4	-7.05	103.58	106.40
25	BB	1280	G	C1'-O4'-C4'	-7.05	104.26	109.90
25	BB	1297	C	C5'-C4'-C3'	-7.05	104.71	116.00
25	BB	1435	G	C6-N1-C2	-7.05	120.87	125.10
25	BB	1636	U	N3-C2-O2	-7.05	117.26	122.20
25	BB	2115	G	N1-C6-O6	-7.05	115.67	119.90
25	BB	2178	C	N3-C2-O2	-7.05	116.96	121.90
25	BB	2825	G	C1'-O4'-C4'	-7.05	104.26	109.90
25	BB	2903	U	N3-C4-C5	-7.05	110.37	114.60
28	BE	78	ARG	NH1-CZ-NH2	-7.05	111.64	119.40
3	A1	384	G	N9-C4-C5	7.05	108.22	105.40
25	BB	1349	C	O4'-C1'-N1	7.05	113.84	108.20
25	BB	1373	A	C4-C5-C6	-7.05	113.47	117.00
1	AE	12	U	O4'-C1'-N1	7.05	113.84	108.20
1	AE	34	G	C3'-C2'-C1'	7.05	107.14	101.50
3	A1	401	C	N3-C2-O2	-7.05	116.96	121.90
3	A1	457	G	N1-C6-O6	-7.05	115.67	119.90
3	A1	573	A	N1-C2-N3	7.05	132.83	129.30
3	A1	671	G	C5'-C4'-C3'	-7.05	104.72	116.00
3	A1	1224	U	C5-C4-O4	7.05	130.13	125.90
3	A1	1228	C	O4'-C1'-N1	7.05	113.84	108.20
25	BB	422	A	C1'-O4'-C4'	-7.05	104.26	109.90
25	BB	1112	G	N3-C4-N9	-7.05	121.77	126.00
25	BB	1506	U	N3-C4-C5	-7.05	110.37	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1667	G	N3-C4-C5	7.05	132.13	128.60
25	BB	1713	A	C2-N3-C4	7.05	114.12	110.60
25	BB	1744	A	N9-C4-C5	7.05	108.62	105.80
25	BB	2016	U	N1-C2-N3	7.05	119.13	114.90
25	BB	2637	U	N1-C2-N3	7.05	119.13	114.90
3	A1	378	G	N3-C2-N2	-7.05	114.97	119.90
3	A1	859	G	C2-N3-C4	7.05	115.42	111.90
3	A1	1059	C	C4'-C3'-C2'	-7.05	95.55	102.60
3	A1	1194	U	N3-C2-O2	-7.05	117.27	122.20
25	BB	295	G	C8-N9-C4	-7.05	103.58	106.40
25	BB	774	G	C4-C5-C6	-7.05	114.57	118.80
25	BB	797	G	N3-C4-N9	-7.05	121.77	126.00
25	BB	1737	G	N1-C2-N3	7.05	128.13	123.90
25	BB	1814	G	N9-C1'-C2'	-7.05	104.25	112.00
25	BB	2103	C	C1'-O4'-C4'	-7.05	104.26	109.90
25	BB	2311	A	C4'-C3'-C2'	-7.05	95.55	102.60
3	A1	646	G	C5'-C4'-C3'	-7.05	104.72	116.00
25	BB	735	A	C1'-O4'-C4'	-7.05	104.26	109.90
25	BB	1430	G	C5-C6-O6	7.05	132.83	128.60
25	BB	1507	C	C4'-C3'-C2'	-7.05	95.55	102.60
25	BB	2814	A	C6-C5-N7	7.05	137.23	132.30
25	BB	2873	A	O4'-C1'-N9	-7.05	102.56	108.20
3	A1	296	U	N1-C1'-C2'	-7.05	104.25	112.00
3	A1	468	A	C6-C5-N7	7.05	137.23	132.30
3	A1	492	C	C2-N3-C4	-7.05	116.38	119.90
3	A1	538	G	N1-C2-N3	7.05	128.13	123.90
3	A1	1024	G	N7-C8-N9	7.05	116.62	113.10
3	A1	1218	C	N3-C4-C5	7.05	124.72	121.90
3	A1	1318	A	C4-C5-C6	-7.05	113.48	117.00
15	AO	178	ARG	NH1-CZ-NH2	-7.05	111.65	119.40
23	AX	48	ARG	NE-CZ-NH1	7.05	123.82	120.30
25	BB	117	G	C2-N3-C4	7.05	115.42	111.90
25	BB	465	G	N1-C2-N3	7.05	128.13	123.90
25	BB	484	C	N3-C4-C5	7.05	124.72	121.90
25	BB	583	G	C1'-O4'-C4'	-7.05	104.26	109.90
25	BB	2110	G	C4-C5-N7	-7.05	107.98	110.80
25	BB	2380	C	N1-C2-N3	7.05	124.13	119.20
25	BB	1479	G	C5-C6-N1	7.04	115.02	111.50
25	BB	1696	G	C1'-O4'-C4'	-7.04	104.26	109.90
25	BB	1746	A	C6-N1-C2	-7.04	114.37	118.60
3	A1	654	G	N1-C6-O6	-7.04	115.67	119.90
3	A1	669	G	N9-C4-C5	7.04	108.22	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1114	C	C4-C5-C6	-7.04	113.88	117.40
3	A1	1215	G	O4'-C4'-C3'	7.04	111.73	106.10
3	A1	1422	G	C5-N7-C8	-7.04	100.78	104.30
25	BB	91	A	C3'-C2'-C1'	7.04	107.13	101.50
25	BB	241	A	C4-C5-C6	-7.04	113.48	117.00
25	BB	286	U	N1-C2-N3	7.04	119.13	114.90
25	BB	635	C	N3-C2-O2	-7.04	116.97	121.90
25	BB	887	U	N1-C2-N3	7.04	119.13	114.90
25	BB	952	G	N3-C4-C5	-7.04	125.08	128.60
25	BB	1387	A	C6-C5-N7	7.04	137.23	132.30
25	BB	2124	G	C5'-C4'-C3'	-7.04	104.73	116.00
3	A1	296	U	C5-C6-N1	-7.04	119.18	122.70
3	A1	360	G	N7-C8-N9	7.04	116.62	113.10
3	A1	540	G	C8-N9-C4	-7.04	103.58	106.40
3	A1	627	G	N9-C4-C5	7.04	108.22	105.40
3	A1	856	C	C5'-C4'-O4'	7.04	117.55	109.10
3	A1	1336	C	C6-N1-C2	7.04	123.12	120.30
3	A1	1379	G	C3'-C2'-C1'	-7.04	95.87	101.50
3	A1	1379	G	O4'-C1'-N9	7.04	113.83	108.20
3	A1	1522	U	C5-C6-N1	-7.04	119.18	122.70
24	BA	62	C	C4-C5-C6	-7.04	113.88	117.40
25	BB	64	A	N1-C2-N3	7.04	132.82	129.30
25	BB	306	U	O4'-C1'-N1	7.04	113.83	108.20
25	BB	615	U	C6-N1-C2	-7.04	116.78	121.00
25	BB	623	C	C1'-O4'-C4'	-7.04	104.27	109.90
25	BB	803	U	N1-C1'-C2'	-7.04	104.25	112.00
25	BB	1496	A	C5-N7-C8	-7.04	100.38	103.90
25	BB	1659	G	C4-C5-C6	-7.04	114.58	118.80
25	BB	1701	A	C5'-C4'-O4'	7.04	117.55	109.10
25	BB	2747	G	N9-C4-C5	-7.04	102.58	105.40
25	BB	2834	G	O4'-C4'-C3'	7.04	111.73	106.10
52	B3	123	GLU	OE1-CD-OE2	-7.04	114.85	123.30
3	A1	27	G	N9-C4-C5	7.04	108.22	105.40
3	A1	193	C	C5'-C4'-O4'	7.04	117.55	109.10
3	A1	535	A	P-O3'-C3'	7.04	128.15	119.70
25	BB	2508	G	N7-C8-N9	7.04	116.62	113.10
25	BB	2571	U	C6-N1-C2	-7.04	116.78	121.00
25	BB	2596	U	C5-C4-O4	7.04	130.12	125.90
25	BB	2621	G	C2-N3-C4	7.04	115.42	111.90
1	AP	54	U	C4-C5-C6	7.04	123.92	119.70
3	A1	81	A	N9-C4-C5	7.04	108.62	105.80
3	A1	226	G	N3-C4-C5	-7.04	125.08	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	220	G	C8-N9-C4	-7.04	103.58	106.40
25	BB	864	G	C4-C5-C6	-7.04	114.58	118.80
25	BB	966	G	N3-C4-C5	-7.04	125.08	128.60
25	BB	2127	G	N1-C6-O6	-7.04	115.68	119.90
25	BB	2605	U	C2-N3-C4	-7.04	122.78	127.00
25	BB	2659	G	N3-C4-N9	-7.04	121.78	126.00
1	AE	34	G	C6-C5-N7	7.04	134.62	130.40
3	A1	382	A	N1-C2-N3	7.04	132.82	129.30
3	A1	648	A	C5'-C4'-O4'	7.04	117.54	109.10
3	A1	1022	A	N3-C4-C5	7.04	131.73	126.80
3	A1	1431	A	N7-C8-N9	7.04	117.32	113.80
25	BB	51	G	N9-C4-C5	7.04	108.22	105.40
1	AP	33	U	C2-N3-C4	7.04	131.22	127.00
3	A1	296	U	N1-C2-N3	7.04	119.12	114.90
3	A1	954	G	N1-C2-N3	7.04	128.12	123.90
3	A1	1100	C	C5-C4-N4	-7.04	115.28	120.20
25	BB	602	A	N9-C4-C5	-7.04	102.99	105.80
25	BB	1209	U	C4'-C3'-C2'	-7.04	95.56	102.60
25	BB	1405	U	C2-N3-C4	-7.04	122.78	127.00
25	BB	1933	G	C5-C6-O6	7.04	132.82	128.60
25	BB	1963	U	N3-C2-O2	-7.04	117.28	122.20
25	BB	2235	G	O3'-P-O5'	7.04	117.37	104.00
25	BB	2269	G	C4-C5-N7	-7.04	107.99	110.80
25	BB	2899	A	C1'-O4'-C4'	-7.04	104.27	109.90
1	AP	25	C	N3-C4-N4	-7.03	113.08	118.00
3	A1	192	A	C5-C6-N1	7.03	121.22	117.70
3	A1	347	G	C6-C5-N7	7.03	134.62	130.40
3	A1	956	U	O4'-C4'-C3'	7.03	111.73	106.10
3	A1	987	G	N3-C2-N2	-7.03	114.98	119.90
3	A1	1357	A	C4-C5-C6	-7.03	113.48	117.00
3	A1	1467	C	N1-C1'-C2'	-7.03	104.26	112.00
24	BA	13	G	C5-C6-O6	-7.03	124.38	128.60
25	BB	73	A	C5'-C4'-C3'	-7.03	104.75	116.00
25	BB	73	A	C5'-C4'-O4'	7.03	117.54	109.10
25	BB	594	U	N3-C2-O2	-7.03	117.28	122.20
3	A1	96	U	C2-N3-C4	-7.03	122.78	127.00
3	A1	643	C	N1-C2-N3	7.03	124.12	119.20
24	BA	26	C	C1'-O4'-C4'	-7.03	104.28	109.90
25	BB	1111	A	N9-C4-C5	7.03	108.61	105.80
25	BB	2592	G	C6-N1-C2	-7.03	120.88	125.10
3	A1	140	U	C4'-C3'-C2'	-7.03	95.57	102.60
3	A1	286	C	N1-C2-O2	7.03	123.12	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	465	A	C8-N9-C4	-7.03	102.99	105.80
3	A1	663	A	C4-C5-C6	-7.03	113.48	117.00
3	A1	1269	A	C2-N3-C4	7.03	114.11	110.60
3	A1	1306	A	N7-C8-N9	7.03	117.32	113.80
3	A1	1311	A	C5-C6-N6	7.03	129.32	123.70
24	BA	63	C	C3'-C2'-C1'	7.03	107.12	101.50
25	BB	180	G	O4'-C4'-C3'	7.03	111.72	106.10
25	BB	1663	G	O3'-P-O5'	7.03	117.36	104.00
25	BB	1787	A	C4-C5-C6	-7.03	113.48	117.00
25	BB	2395	C	N3-C4-N4	-7.03	113.08	118.00
25	BB	2644	G	C2-N3-C4	7.03	115.42	111.90
3	A1	154	U	C2'-C3'-O3'	7.03	124.96	109.50
3	A1	668	G	C4'-C3'-C2'	-7.03	95.57	102.60
25	BB	114	U	O4'-C4'-C3'	-7.03	96.97	104.00
25	BB	771	G	N3-C4-C5	-7.03	125.09	128.60
25	BB	2577	A	C5'-C4'-O4'	7.03	117.53	109.10
25	BB	2695	U	N3-C4-C5	-7.03	110.38	114.60
1	AA	38	A	N7-C8-N9	-7.03	110.29	113.80
3	A1	600	A	C1'-O4'-C4'	-7.03	104.28	109.90
3	A1	1198	G	C5-N7-C8	-7.03	100.79	104.30
25	BB	222	A	C2-N3-C4	7.03	114.11	110.60
25	BB	500	G	C5'-C4'-C3'	-7.03	104.75	116.00
25	BB	575	A	N3-C4-N9	7.03	133.02	127.40
25	BB	727	A	C8-N9-C4	7.03	108.61	105.80
25	BB	1300	G	C3'-C2'-C1'	7.03	107.12	101.50
25	BB	1357	C	C5-C4-N4	-7.03	115.28	120.20
25	BB	1524	G	C5-N7-C8	-7.03	100.79	104.30
25	BB	1642	G	C4-C5-N7	7.03	113.61	110.80
25	BB	2260	C	C1'-O4'-C4'	-7.03	104.28	109.90
25	BB	2850	A	C4'-C3'-C2'	-7.03	95.57	102.60
25	BB	157	C	C4'-C3'-C2'	-7.03	95.57	102.60
25	BB	254	G	C2-N3-C4	7.03	115.41	111.90
25	BB	543	G	N3-C4-N9	7.03	130.22	126.00
25	BB	590	A	C6-N1-C2	-7.03	114.39	118.60
25	BB	1193	G	C5'-C4'-O4'	7.03	117.53	109.10
25	BB	1480	C	C1'-O4'-C4'	-7.03	104.28	109.90
25	BB	2157	G	C5-C6-N1	7.03	115.01	111.50
1	AP	34	G	C2-N3-C4	7.02	115.41	111.90
3	A1	280	C	C5-C4-N4	-7.02	115.28	120.20
3	A1	993	G	C4-C5-C6	-7.02	114.59	118.80
3	A1	1010	U	C5-C6-N1	-7.02	119.19	122.70
25	BB	2648	G	C8-N9-C4	-7.02	103.59	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2758	A	N9-C4-C5	7.02	108.61	105.80
25	BB	2769	U	N3-C4-C5	-7.02	110.39	114.60
25	BB	2850	A	C6-C5-N7	7.02	137.22	132.30
3	A1	765	G	C8-N9-C4	-7.02	103.59	106.40
25	BB	115	C	N3-C4-N4	-7.02	113.08	118.00
25	BB	527	C	N3-C4-N4	-7.02	113.08	118.00
25	BB	821	A	C8-N9-C4	-7.02	102.99	105.80
25	BB	961	C	N1-C2-N3	7.02	124.12	119.20
25	BB	1643	G	C5-C6-N1	7.02	115.01	111.50
25	BB	1919	A	N3-C4-N9	-7.02	121.78	127.40
25	BB	2582	G	N9-C4-C5	7.02	108.21	105.40
25	BB	2864	G	N3-C4-C5	-7.02	125.09	128.60
3	A1	1004	A	C5-C6-N1	7.02	121.21	117.70
25	BB	473	G	C4-C5-C6	-7.02	114.59	118.80
25	BB	673	C	N3-C2-O2	-7.02	116.99	121.90
25	BB	1384	A	C4-C5-N7	7.02	114.21	110.70
1	AA	8	U	C5'-C4'-O4'	7.02	117.52	109.10
1	AE	71	G	C6-N1-C2	-7.02	120.89	125.10
3	A1	924	C	N3-C4-C5	7.02	124.71	121.90
24	BA	46	A	C6-C5-N7	7.02	137.21	132.30
24	BA	56	G	N3-C4-C5	-7.02	125.09	128.60
25	BB	48	G	C8-N9-C4	-7.02	103.59	106.40
25	BB	600	G	N1-C2-N2	-7.02	109.88	116.20
25	BB	723	C	C2-N3-C4	-7.02	116.39	119.90
25	BB	838	C	N3-C4-C5	7.02	124.71	121.90
25	BB	1808	A	C6-C5-N7	7.02	137.21	132.30
25	BB	1977	A	C5-C6-N1	7.02	121.21	117.70
25	BB	2058	A	O4'-C4'-C3'	7.02	111.72	106.10
25	BB	2242	G	C6-C5-N7	7.02	134.61	130.40
25	BB	2567	G	C1'-O4'-C4'	-7.02	104.28	109.90
25	BB	2819	G	C6-N1-C2	-7.02	120.89	125.10
3	A1	128	G	C3'-C2'-C1'	7.02	107.11	101.50
3	A1	134	G	N3-C2-N2	-7.02	114.99	119.90
3	A1	1047	G	C5-C6-O6	-7.02	124.39	128.60
22	AW	66	VAL	CA-CB-CG2	7.02	121.43	110.90
24	BA	103	U	N3-C2-O2	-7.02	117.29	122.20
25	BB	214	G	C5-C6-N1	7.02	115.01	111.50
25	BB	729	G	C5-C6-N1	7.02	115.01	111.50
25	BB	1567	G	P-O3'-C3'	7.02	128.12	119.70
25	BB	1628	G	N9-C1'-C2'	-7.02	104.28	112.00
25	BB	1981	A	O4'-C4'-C3'	-7.02	96.98	104.00
25	BB	2286	G	O5'-P-OP2	-7.02	99.38	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2520	C	N1-C1'-C2'	7.02	123.12	114.00
25	BB	2856	A	C8-N9-C4	7.02	108.61	105.80
1	AA	64	A	C5-N7-C8	-7.02	100.39	103.90
3	A1	1003	G	N9-C4-C5	7.02	108.21	105.40
25	BB	559	G	C4-C5-C6	-7.02	114.59	118.80
25	BB	1148	U	C3'-C2'-C1'	7.02	107.11	101.50
25	BB	2375	G	N1-C6-O6	-7.02	115.69	119.90
25	BB	2392	A	C8-N9-C4	-7.02	102.99	105.80
1	AA	16	U	N3-C2-O2	-7.01	117.29	122.20
1	AP	55	U	O4'-C1'-N1	-7.01	102.59	108.20
1	AE	55	U	C6-N1-C2	-7.01	116.79	121.00
2	AM	9	U	O4'-C1'-N1	-7.01	102.59	108.20
3	A1	505	G	C2-N3-C4	-7.01	108.39	111.90
3	A1	935	A	C5-C6-N1	7.01	121.21	117.70
3	A1	967	C	C5-C6-N1	7.01	124.51	121.00
3	A1	1194	U	O4'-C1'-N1	-7.01	102.59	108.20
3	A1	1506	U	C5-C4-O4	7.01	130.11	125.90
24	BA	105	G	C2-N3-C4	7.01	115.41	111.90
25	BB	1891	G	N1-C6-O6	-7.01	115.69	119.90
25	BB	2310	C	C5-C4-N4	-7.01	115.29	120.20
1	AE	2	C	C4'-C3'-C2'	-7.01	95.59	102.60
3	A1	113	G	C5-C6-O6	7.01	132.81	128.60
3	A1	348	G	C4-C5-N7	7.01	113.61	110.80
3	A1	1063	C	C2-N3-C4	-7.01	116.39	119.90
25	BB	2635	A	N1-C6-N6	-7.01	114.39	118.60
33	BJ	47	ARG	NE-CZ-NH1	-7.01	116.79	120.30
1	AE	12	U	N3-C2-O2	-7.01	117.29	122.20
3	A1	194	C	N1-C2-N3	7.01	124.11	119.20
3	A1	595	A	C6-C5-N7	7.01	137.21	132.30
25	BB	225	C	O4'-C4'-C3'	-7.01	96.99	104.00
25	BB	338	G	C5'-C4'-C3'	-7.01	104.78	116.00
25	BB	557	C	N1-C2-O2	7.01	123.11	118.90
25	BB	799	G	C4-C5-C6	-7.01	114.59	118.80
25	BB	920	A	N1-C2-N3	7.01	132.81	129.30
25	BB	1248	G	C6-C5-N7	7.01	134.61	130.40
25	BB	1376	C	C4-C5-C6	-7.01	113.89	117.40
25	BB	1429	G	C5-N7-C8	-7.01	100.79	104.30
25	BB	1571	A	C8-N9-C4	-7.01	103.00	105.80
25	BB	2235	G	N3-C4-N9	-7.01	121.79	126.00
25	BB	2759	G	C5-C6-N1	7.01	115.01	111.50
50	B1	162	ARG	NE-CZ-NH1	7.01	123.81	120.30
3	A1	529	G	N3-C4-N9	7.01	130.21	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	620	C	C5'-C4'-C3'	-7.01	104.78	116.00
3	A1	643	C	C5'-C4'-O4'	7.01	117.51	109.10
3	A1	1511	G	C8-N9-C1'	7.01	136.11	127.00
25	BB	1749	A	O4'-C1'-N9	7.01	113.81	108.20
25	BB	2183	A	C6-N1-C2	-7.01	114.39	118.60
25	BB	2191	A	C8-N9-C4	-7.01	103.00	105.80
25	BB	2366	A	N7-C8-N9	7.01	117.30	113.80
3	A1	722	G	C6-N1-C2	-7.01	120.89	125.10
3	A1	1009	U	C5-C4-O4	-7.01	121.69	125.90
3	A1	1034	G	N9-C1'-C2'	-7.01	104.29	112.00
3	A1	1037	C	C4-C5-C6	-7.01	113.90	117.40
25	BB	1651	G	N1-C6-O6	-7.01	115.69	119.90
25	BB	1711	A	C3'-C2'-C1'	7.01	107.11	101.50
25	BB	1980	G	C5-C6-N1	7.01	115.00	111.50
25	BB	2060	A	C6-C5-N7	7.01	137.21	132.30
3	A1	115	G	N7-C8-N9	7.01	116.60	113.10
3	A1	627	G	C6-C5-N7	7.01	134.60	130.40
3	A1	826	C	O4'-C1'-C2'	-7.01	98.79	105.80
3	A1	1368	A	C5-C6-N1	7.01	121.20	117.70
25	BB	534	U	N1-C2-O2	7.01	127.70	122.80
25	BB	1304	A	C5-C6-N1	7.01	121.20	117.70
25	BB	2380	C	C4-C5-C6	7.01	120.90	117.40
25	BB	2392	A	C6-N1-C2	-7.01	114.40	118.60
3	A1	1242	G	C5-C6-O6	7.00	132.80	128.60
3	A1	1278	G	N3-C4-N9	7.00	130.20	126.00
3	A1	46	G	P-O3'-C3'	7.00	128.10	119.70
3	A1	341	C	N1-C2-O2	7.00	123.10	118.90
3	A1	675	A	C4-C5-C6	-7.00	113.50	117.00
3	A1	1193	G	C5-C6-O6	-7.00	124.40	128.60
25	BB	397	U	N1-C2-N3	7.00	119.10	114.90
25	BB	2184	A	C2-N3-C4	7.00	114.10	110.60
25	BB	2538	C	C1'-O4'-C4'	-7.00	104.30	109.90
25	BB	2894	G	C4-N9-C1'	-7.00	117.39	126.50
1	AE	11	C	C5-C4-N4	7.00	125.10	120.20
3	A1	21	G	C5-C6-N1	7.00	115.00	111.50
3	A1	218	U	C5'-C4'-C3'	-7.00	104.80	116.00
3	A1	548	G	N3-C4-C5	-7.00	125.10	128.60
3	A1	926	G	C4'-C3'-C2'	-7.00	95.60	102.60
3	A1	1514	G	C6-N1-C2	-7.00	120.90	125.10
24	BA	76	G	C6-N1-C2	-7.00	120.90	125.10
24	BA	105	G	N3-C4-C5	-7.00	125.10	128.60
25	BB	718	A	N1-C2-N3	-7.00	125.80	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	802	A	C1'-O4'-C4'	-7.00	104.30	109.90
25	BB	1415	U	N3-C2-O2	-7.00	117.30	122.20
25	BB	1612	C	C3'-C2'-C1'	-7.00	95.90	101.50
25	BB	2014	A	C5-N7-C8	-7.00	100.40	103.90
25	BB	2292	U	C6-N1-C2	7.00	125.20	121.00
25	BB	2474	U	N1-C2-O2	7.00	127.70	122.80
25	BB	2544	G	N9-C4-C5	7.00	108.20	105.40
3	A1	679	C	C6-N1-C2	-7.00	117.50	120.30
25	BB	1298	C	C3'-C2'-C1'	-7.00	95.90	101.50
25	BB	1981	A	C5'-C4'-O4'	7.00	117.50	109.10
25	BB	2530	A	N7-C8-N9	-7.00	110.30	113.80
25	BB	2701	U	C6-N1-C2	-7.00	116.80	121.00
3	A1	176	C	C3'-C2'-C1'	7.00	107.10	101.50
3	A1	1050	G	O4'-C1'-N9	7.00	113.80	108.20
20	AU	98	LEU	CB-CG-CD2	7.00	122.90	111.00
25	BB	92	U	C4'-C3'-C2'	-7.00	95.60	102.60
25	BB	953	G	C4'-C3'-C2'	-7.00	95.60	102.60
25	BB	968	C	C5'-C4'-O4'	7.00	117.50	109.10
25	BB	1029	A	O4'-C4'-C3'	7.00	111.70	106.10
25	BB	1237	A	C6-C5-N7	7.00	137.20	132.30
25	BB	1857	G	C1'-O4'-C4'	-7.00	104.30	109.90
25	BB	1888	G	N3-C4-N9	-7.00	121.80	126.00
3	A1	760	G	C1'-O4'-C4'	-7.00	104.30	109.90
3	A1	801	U	O4'-C1'-N1	7.00	113.80	108.20
24	BA	55	U	C5-C6-N1	-7.00	119.20	122.70
25	BB	230	G	N3-C4-C5	-7.00	125.10	128.60
25	BB	723	C	C4-C5-C6	7.00	120.90	117.40
25	BB	1730	C	N3-C2-O2	-7.00	117.00	121.90
25	BB	1931	U	C4-C5-C6	7.00	123.90	119.70
25	BB	1960	A	C4-C5-N7	7.00	114.20	110.70
3	A1	1100	C	C1'-O4'-C4'	-7.00	104.30	109.90
25	BB	907	G	C4-C5-N7	-7.00	108.00	110.80
25	BB	2209	G	C6-C5-N7	7.00	134.60	130.40
25	BB	2621	G	N3-C2-N2	-7.00	115.00	119.90
3	A1	463	U	C5'-C4'-O4'	6.99	117.49	109.10
24	BA	106	G	N1-C2-N3	6.99	128.10	123.90
25	BB	297	G	C6-C5-N7	6.99	134.60	130.40
25	BB	395	U	C6-N1-C1'	6.99	130.99	121.20
25	BB	664	G	C4'-C3'-O3'	6.99	126.99	113.00
25	BB	730	A	C4'-C3'-C2'	-6.99	95.61	102.60
25	BB	870	U	C2-N3-C4	-6.99	122.80	127.00
25	BB	998	C	N1-C2-O2	6.99	123.10	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1038	G	C8-N9-C4	-6.99	103.60	106.40
25	BB	1556	C	C5'-C4'-O4'	6.99	117.49	109.10
25	BB	1646	C	C6-N1-C1'	6.99	129.19	120.80
25	BB	2316	G	O4'-C4'-C3'	6.99	111.69	106.10
25	BB	232	G	C2-N3-C4	-6.99	108.40	111.90
25	BB	543	G	O4'-C1'-N9	6.99	113.79	108.20
25	BB	1452	G	C6-C5-N7	6.99	134.59	130.40
25	BB	1689	A	C1'-O4'-C4'	6.99	115.49	109.90
1	AE	22	G	P-O3'-C3'	6.99	128.09	119.70
1	AE	70	C	N1-C2-O2	6.99	123.09	118.90
3	A1	195	A	C4-C5-N7	-6.99	107.20	110.70
3	A1	709	U	N3-C2-O2	-6.99	117.31	122.20
13	AL	72	GLU	OE1-CD-OE2	-6.99	114.91	123.30
25	BB	697	G	C3'-C2'-C1'	6.99	107.09	101.50
25	BB	1161	C	O4'-C1'-N1	6.99	113.79	108.20
25	BB	1515	A	C6-C5-N7	6.99	137.19	132.30
25	BB	1552	A	C8-N9-C4	-6.99	103.00	105.80
25	BB	2262	U	C4'-C3'-C2'	-6.99	95.61	102.60
25	BB	2641	G	N3-C4-N9	6.99	130.19	126.00
25	BB	2672	U	N3-C2-O2	-6.99	117.31	122.20
25	BB	2775	G	C4-C5-N7	-6.99	108.00	110.80
3	A1	200	G	N7-C8-N9	6.99	116.59	113.10
3	A1	386	C	N1-C2-N3	6.99	124.09	119.20
3	A1	537	G	C2-N3-C4	6.99	115.39	111.90
25	BB	68	G	N1-C2-N2	-6.99	109.91	116.20
25	BB	590	A	C2-N3-C4	6.99	114.09	110.60
25	BB	844	A	N7-C8-N9	6.99	117.29	113.80
25	BB	1461	C	N1-C2-O2	6.99	123.09	118.90
25	BB	2458	G	C6-C5-N7	-6.99	126.21	130.40
25	BB	2620	C	P-O3'-C3'	6.99	128.09	119.70
3	A1	422	C	C5'-C4'-O4'	6.99	117.48	109.10
3	A1	658	C	C6-N1-C2	-6.99	117.50	120.30
3	A1	662	U	N1-C2-N3	6.99	119.09	114.90
3	A1	712	A	N9-C4-C5	-6.99	103.00	105.80
25	BB	524	G	N3-C4-N9	6.99	130.19	126.00
1	AE	58	A	N7-C8-N9	6.99	117.29	113.80
3	A1	1104	G	O4'-C1'-N9	6.99	113.79	108.20
3	A1	1411	C	N3-C2-O2	-6.99	117.01	121.90
24	BA	81	G	C4-C5-N7	-6.99	108.01	110.80
25	BB	223	A	C4-C5-N7	6.99	114.19	110.70
25	BB	530	G	N7-C8-N9	6.99	116.59	113.10
25	BB	2074	U	P-O3'-C3'	6.99	128.08	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2296	U	N3-C4-O4	6.99	124.29	119.40
25	BB	2462	C	N1-C2-N3	6.99	124.09	119.20
25	BB	2875	C	C5-C4-N4	-6.99	115.31	120.20
33	BJ	35	PHE	CB-CG-CD2	6.99	125.69	120.80
3	A1	730	G	C4'-C3'-C2'	-6.98	95.62	102.60
3	A1	1121	U	C5'-C4'-C3'	-6.98	104.83	116.00
18	AS	127	TYR	CG-CD2-CE2	-6.98	115.71	121.30
25	BB	76	C	C2-N3-C4	-6.98	116.41	119.90
25	BB	755	U	C2-N3-C4	-6.98	122.81	127.00
25	BB	755	U	N3-C2-O2	-6.98	117.31	122.20
25	BB	810	U	C5-C6-N1	-6.98	119.21	122.70
25	BB	2592	G	C4'-C3'-C2'	-6.98	95.62	102.60
25	BB	2641	G	C6-C5-N7	6.98	134.59	130.40
1	AA	60	C	C5-C6-N1	-6.98	117.51	121.00
3	A1	259	G	N9-C4-C5	6.98	108.19	105.40
3	A1	699	C	C5-C4-N4	6.98	125.09	120.20
19	AT	44	ARG	NE-CZ-NH1	6.98	123.79	120.30
25	BB	117	G	O5'-C5'-C4'	-6.98	98.43	111.70
25	BB	1298	C	C6-N1-C2	-6.98	117.51	120.30
25	BB	2105	U	C5'-C4'-O4'	6.98	117.48	109.10
25	BB	2657	A	N1-C6-N6	-6.98	114.41	118.60
1	AE	13	C	C5'-C4'-O4'	6.98	117.48	109.10
3	A1	238	A	C5-N7-C8	-6.98	100.41	103.90
3	A1	541	G	C6-C5-N7	6.98	134.59	130.40
3	A1	739	C	O4'-C1'-N1	6.98	113.78	108.20
3	A1	951	G	C4-C5-N7	-6.98	108.01	110.80
3	A1	1317	C	C6-N1-C2	-6.98	117.51	120.30
3	A1	1526	G	N7-C8-N9	-6.98	109.61	113.10
25	BB	322	A	O3'-P-O5'	6.98	117.26	104.00
25	BB	443	A	C6-C5-N7	6.98	137.19	132.30
25	BB	930	G	N3-C2-N2	-6.98	115.01	119.90
25	BB	1195	G	C5-N7-C8	-6.98	100.81	104.30
25	BB	1473	G	N1-C2-N2	6.98	122.48	116.20
25	BB	1935	G	C2-N3-C4	6.98	115.39	111.90
1	AE	41	U	N3-C2-O2	-6.98	117.31	122.20
3	A1	698	G	N1-C2-N3	6.98	128.09	123.90
3	A1	1238	A	C8-N9-C4	-6.98	103.01	105.80
3	A1	1257	A	N1-C2-N3	-6.98	125.81	129.30
25	BB	746	U	O4'-C1'-N1	6.98	113.78	108.20
25	BB	1449	G	C4'-C3'-C2'	-6.98	95.62	102.60
3	A1	9	G	C2-N3-C4	6.98	115.39	111.90
3	A1	869	G	O4'-C1'-N9	-6.98	102.62	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	AH	71	ARG	NE-CZ-NH1	6.98	123.79	120.30
25	BB	117	G	C6-N1-C2	-6.98	120.91	125.10
25	BB	830	G	N3-C4-C5	-6.98	125.11	128.60
25	BB	854	C	C4-C5-C6	-6.98	113.91	117.40
25	BB	1537	G	C6-N1-C2	-6.98	120.91	125.10
25	BB	1776	G	N3-C4-N9	6.98	130.19	126.00
25	BB	1978	A	C8-N9-C4	-6.98	103.01	105.80
25	BB	2607	G	C4-N9-C1'	-6.98	117.43	126.50
25	BB	2668	G	C5-C6-N1	6.98	114.99	111.50
25	BB	2820	A	C4-C5-C6	-6.98	113.51	117.00
25	BB	350	G	C6-C5-N7	6.98	134.59	130.40
25	BB	417	C	N3-C4-C5	6.98	124.69	121.90
25	BB	803	U	O4'-C1'-N1	6.98	113.78	108.20
25	BB	2363	G	C3'-C2'-C1'	6.98	107.08	101.50
3	A1	209	U	N1-C2-N3	6.97	119.08	114.90
3	A1	244	U	C5-C6-N1	-6.97	119.21	122.70
3	A1	499	A	N9-C4-C5	-6.97	103.01	105.80
3	A1	773	G	C8-N9-C4	-6.97	103.61	106.40
3	A1	898	G	N1-C2-N2	-6.97	109.92	116.20
3	A1	1349	A	C6-N1-C2	-6.97	114.42	118.60
24	BA	78	A	N3-C4-C5	-6.97	121.92	126.80
25	BB	693	A	C4-C5-C6	-6.97	113.51	117.00
25	BB	1286	A	C2-N3-C4	6.97	114.09	110.60
25	BB	1537	G	C5-C6-N1	6.97	114.99	111.50
25	BB	2410	G	C6-C5-N7	-6.97	126.22	130.40
25	BB	2580	U	N3-C4-C5	-6.97	110.42	114.60
25	BB	2738	A	N1-C2-N3	-6.97	125.81	129.30
3	A1	870	U	C5-C4-O4	6.97	130.08	125.90
3	A1	1464	U	O4'-C1'-N1	-6.97	102.62	108.20
25	BB	33	C	N3-C4-C5	6.97	124.69	121.90
25	BB	2132	U	N3-C4-O4	6.97	124.28	119.40
25	BB	2138	G	N7-C8-N9	6.97	116.59	113.10
25	BB	2223	G	C5'-C4'-O4'	6.97	117.47	109.10
3	A1	200	G	O4'-C1'-N9	6.97	113.78	108.20
3	A1	1179	A	N1-C2-N3	-6.97	125.81	129.30
1	AE	18	G	C5-C6-N1	6.97	114.98	111.50
3	A1	1089	G	O4'-C1'-N9	6.97	113.78	108.20
3	A1	1516	G	C4-C5-C6	-6.97	114.62	118.80
25	BB	384	A	N7-C8-N9	6.97	117.28	113.80
25	BB	578	G	O4'-C1'-C2'	6.97	113.87	107.60
25	BB	1260	A	C1'-O4'-C4'	-6.97	104.32	109.90
25	BB	1784	A	N1-C2-N3	-6.97	125.81	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2807	U	O4'-C1'-N1	6.97	113.78	108.20
25	BB	2875	C	O4'-C4'-C3'	-6.97	97.03	104.00
1	AA	56	C	O4'-C1'-N1	6.97	113.78	108.20
3	A1	999	C	C2-N1-C1'	6.97	126.47	118.80
3	A1	1066	C	N3-C2-O2	-6.97	117.02	121.90
3	A1	1507	A	C1'-O4'-C4'	-6.97	104.33	109.90
20	AU	4	ARG	NH1-CZ-NH2	-6.97	111.73	119.40
1	AE	57	G	N1-C6-O6	-6.97	115.72	119.90
3	A1	141	G	N9-C4-C5	6.97	108.19	105.40
3	A1	488	C	C5'-C4'-O4'	6.97	117.46	109.10
3	A1	775	G	C4-C5-N7	6.97	113.59	110.80
3	A1	1121	U	N1-C2-O2	6.97	127.68	122.80
3	A1	1161	C	C4'-C3'-C2'	-6.97	95.63	102.60
3	A1	1187	G	C5-C6-N1	6.97	114.98	111.50
25	BB	845	A	N9-C1'-C2'	-6.97	104.34	112.00
25	BB	864	G	N7-C8-N9	6.97	116.58	113.10
25	BB	1356	G	C3'-C2'-C1'	6.97	107.07	101.50
25	BB	1392	A	N1-C6-N6	-6.97	114.42	118.60
25	BB	1580	A	C4-C5-C6	-6.97	113.52	117.00
25	BB	1595	C	N1-C2-N3	6.97	124.08	119.20
25	BB	1612	C	C2-N1-C1'	6.97	126.46	118.80
25	BB	1643	G	C6-N1-C2	-6.97	120.92	125.10
25	BB	1823	G	C6-C5-N7	6.97	134.58	130.40
25	BB	1952	A	O4'-C1'-N9	-6.97	102.63	108.20
25	BB	2358	A	O5'-C5'-C4'	6.97	124.94	111.70
25	BB	2435	A	C5-C6-N1	6.97	121.18	117.70
25	BB	2779	U	C5-C6-N1	-6.97	119.22	122.70
25	BB	2888	C	N3-C2-O2	-6.97	117.02	121.90
25	BB	2898	U	C4'-C3'-O3'	6.97	126.93	113.00
3	A1	650	G	N7-C8-N9	6.96	116.58	113.10
3	A1	704	A	C5-C6-N6	6.96	129.27	123.70
3	A1	781	A	N1-C6-N6	-6.96	114.42	118.60
3	A1	966	G	N3-C4-N9	-6.96	121.82	126.00
3	A1	1395	C	N1-C2-N3	6.96	124.08	119.20
25	BB	117	G	C5-C6-N1	6.96	114.98	111.50
25	BB	1170	C	C5-C6-N1	-6.96	117.52	121.00
25	BB	1277	G	O4'-C1'-N9	6.96	113.77	108.20
25	BB	1569	A	O4'-C1'-N9	6.96	113.77	108.20
25	BB	2655	G	C5-C6-O6	6.96	132.78	128.60
25	BB	2737	G	C2-N3-C4	-6.96	108.42	111.90
49	BZ	63	ARG	NH1-CZ-NH2	-6.96	111.74	119.40
25	BB	217	A	C6-C5-N7	6.96	137.17	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	438	G	C5-C6-O6	6.96	132.78	128.60
25	BB	577	G	O4'-C4'-C3'	-6.96	97.04	104.00
25	BB	1072	C	C5'-C4'-O4'	-6.96	100.75	109.10
25	BB	1704	C	N1-C2-O2	6.96	123.08	118.90
25	BB	1813	G	N1-C2-N3	6.96	128.08	123.90
25	BB	2295	C	C4'-C3'-C2'	-6.96	95.64	102.60
3	A1	315	A	C4'-C3'-C2'	-6.96	95.64	102.60
3	A1	597	G	N1-C2-N3	6.96	128.08	123.90
25	BB	396	G	N3-C4-C5	-6.96	125.12	128.60
25	BB	1707	G	N3-C4-C5	-6.96	125.12	128.60
25	BB	1743	G	C5-N7-C8	6.96	107.78	104.30
25	BB	2305	U	O5'-P-OP2	-6.96	99.44	105.70
25	BB	2566	A	N9-C1'-C2'	6.96	123.05	114.00
27	BD	93	GLN	CB-CA-C	6.96	124.32	110.40
52	B3	152	ARG	NE-CZ-NH1	-6.96	116.82	120.30
3	A1	24	U	C1'-O4'-C4'	-6.96	104.33	109.90
3	A1	409	U	C1'-O4'-C4'	6.96	115.47	109.90
3	A1	1103	C	N3-C2-O2	-6.96	117.03	121.90
3	A1	1312	G	C5'-C4'-O4'	6.96	117.45	109.10
3	A1	1470	U	O4'-C4'-C3'	6.96	111.67	106.10
25	BB	926	G	P-O3'-C3'	6.96	128.05	119.70
25	BB	1195	G	N9-C4-C5	-6.96	102.62	105.40
25	BB	1897	G	C5-N7-C8	6.96	107.78	104.30
1	AE	51	G	N1-C6-O6	-6.96	115.72	119.90
3	A1	228	A	N9-C1'-C2'	6.96	123.05	114.00
3	A1	778	G	N3-C2-N2	-6.96	115.03	119.90
3	A1	881	G	C5-C6-O6	6.96	132.78	128.60
3	A1	993	G	C5-C6-O6	6.96	132.78	128.60
18	AS	68	ARG	NE-CZ-NH1	6.96	123.78	120.30
25	BB	113	U	C3'-C2'-C1'	6.96	107.07	101.50
25	BB	555	G	C6-C5-N7	6.96	134.57	130.40
25	BB	1037	G	C1'-O4'-C4'	-6.96	104.33	109.90
25	BB	1052	C	N1-C2-N3	6.96	124.07	119.20
25	BB	1328	A	C5-N7-C8	6.96	107.38	103.90
25	BB	2406	A	O4'-C4'-C3'	6.96	111.67	106.10
25	BB	2741	A	C2-N3-C4	6.96	114.08	110.60
25	BB	2864	G	C6-N1-C2	6.96	129.28	125.10
1	AP	53	G	C5-C6-O6	6.96	132.77	128.60
1	AE	61	C	N3-C2-O2	-6.96	117.03	121.90
3	A1	178	C	C4-C5-C6	-6.96	113.92	117.40
25	BB	32	C	C3'-C2'-C1'	6.96	107.06	101.50
25	BB	120	U	C6-N1-C2	-6.96	116.83	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	171	U	N3-C4-O4	6.96	124.27	119.40
25	BB	205	G	C8-N9-C4	-6.96	103.62	106.40
25	BB	277	G	C2-N3-C4	6.96	115.38	111.90
25	BB	576	U	O4'-C1'-N1	6.96	113.77	108.20
25	BB	615	U	C5'-C4'-O4'	-6.96	100.75	109.10
25	BB	670	A	N1-C2-N3	-6.96	125.82	129.30
25	BB	789	A	C5-N7-C8	-6.96	100.42	103.90
25	BB	1724	G	N3-C4-N9	-6.96	121.83	126.00
25	BB	1927	A	N7-C8-N9	6.96	117.28	113.80
25	BB	2236	U	N3-C2-O2	-6.96	117.33	122.20
25	BB	2724	U	C5-C6-N1	-6.96	119.22	122.70
25	BB	2812	G	N3-C4-N9	6.96	130.17	126.00
11	AJ	72	TRP	NE1-CE2-CZ2	6.96	138.05	130.40
25	BB	214	G	C6-N1-C2	-6.96	120.93	125.10
25	BB	1972	G	C6-C5-N7	6.96	134.57	130.40
25	BB	2428	G	N3-C4-C5	-6.96	125.12	128.60
25	BB	2682	A	C5'-C4'-O4'	6.96	117.45	109.10
25	BB	2802	G	N3-C4-C5	-6.96	125.12	128.60
1	AA	16	U	C5'-C4'-C3'	-6.95	104.88	116.00
1	AE	20	G	N9-C4-C5	-6.95	102.62	105.40
1	AE	38	A	C4-C5-C6	-6.95	113.52	117.00
3	A1	468	A	C5-C6-N6	6.95	129.26	123.70
3	A1	715	A	C4'-C3'-C2'	-6.95	95.65	102.60
3	A1	845	A	C4-C5-C6	-6.95	113.52	117.00
3	A1	941	G	C4-C5-N7	6.95	113.58	110.80
25	BB	425	G	N1-C6-O6	-6.95	115.73	119.90
25	BB	530	G	C4-C5-C6	-6.95	114.63	118.80
25	BB	1050	A	C6-N1-C2	-6.95	114.43	118.60
25	BB	1352	U	N1-C2-N3	6.95	119.07	114.90
25	BB	1620	G	C5'-C4'-O4'	6.95	117.44	109.10
25	BB	1780	A	P-O3'-C3'	6.95	128.04	119.70
25	BB	1867	G	N1-C2-N2	6.95	122.46	116.20
25	BB	1961	C	C6-N1-C2	-6.95	117.52	120.30
25	BB	2110	G	N3-C2-N2	-6.95	115.03	119.90
25	BB	2427	C	C4-C5-C6	6.95	120.88	117.40
26	BC	8	VAL	CG1-CB-CG2	-6.95	99.77	110.90
1	AA	1	G	O4'-C1'-N9	6.95	113.76	108.20
5	AC	127	ARG	NE-CZ-NH2	6.95	123.78	120.30
25	BB	622	G	P-O3'-C3'	6.95	128.04	119.70
25	BB	673	C	C4'-C3'-C2'	6.95	109.55	102.60
25	BB	949	G	C5-C6-N1	6.95	114.98	111.50
25	BB	1834	U	O4'-C1'-N1	6.95	113.76	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	65	G	N7-C8-N9	6.95	116.58	113.10
3	A1	506	G	C4'-C3'-C2'	-6.95	95.65	102.60
3	A1	1188	A	P-O3'-C3'	6.95	128.04	119.70
25	BB	44	A	C8-N9-C4	6.95	108.58	105.80
25	BB	512	G	N1-C2-N2	-6.95	109.94	116.20
25	BB	1047	G	N1-C2-N2	-6.95	109.94	116.20
25	BB	1511	G	C4-C5-N7	6.95	113.58	110.80
25	BB	1589	U	C4-C5-C6	6.95	123.87	119.70
25	BB	1815	A	C6-C5-N7	6.95	137.16	132.30
2	AM	14	U	C6-N1-C2	-6.95	116.83	121.00
3	A1	310	G	C8-N9-C4	-6.95	103.62	106.40
3	A1	1111	A	C5-C6-N1	6.95	121.17	117.70
3	A1	1145	A	C5-N7-C8	-6.95	100.42	103.90
14	AN	45	ALA	O-C-N	-6.95	111.58	122.70
25	BB	81	G	O4'-C1'-N9	6.95	113.76	108.20
25	BB	1331	G	C4-C5-N7	-6.95	108.02	110.80
25	BB	1431	A	N9-C4-C5	-6.95	103.02	105.80
25	BB	1618	A	C3'-C2'-C1'	6.95	107.06	101.50
25	BB	1873	G	C2-N3-C4	6.95	115.37	111.90
25	BB	2002	G	N1-C6-O6	-6.95	115.73	119.90
25	BB	2089	C	C2-N3-C4	-6.95	116.43	119.90
25	BB	2458	G	N1-C2-N3	6.95	128.07	123.90
25	BB	2838	G	C6-C5-N7	6.95	134.57	130.40
3	A1	586	C	C4'-C3'-O3'	6.95	126.89	113.00
3	A1	726	C	N1-C2-O2	6.95	123.07	118.90
25	BB	579	G	C3'-C2'-C1'	6.95	107.06	101.50
25	BB	1046	A	C5'-C4'-O4'	-6.95	100.76	109.10
25	BB	1401	G	P-O3'-C3'	6.95	128.04	119.70
25	BB	1656	C	O4'-C4'-C3'	6.95	111.66	106.10
25	BB	2048	G	N1-C2-N3	-6.95	119.73	123.90
25	BB	2777	G	N1-C2-N3	6.95	128.07	123.90
1	AP	44	A	C5-C6-N1	6.95	121.17	117.70
3	A1	149	A	C5-N7-C8	-6.95	100.43	103.90
3	A1	266	G	C2-N3-C4	6.95	115.37	111.90
3	A1	633	G	C6-N1-C2	-6.95	120.93	125.10
3	A1	652	U	N1-C2-N3	6.95	119.07	114.90
3	A1	994	A	C4-C5-C6	-6.95	113.53	117.00
9	AH	79	ARG	NE-CZ-NH1	6.95	123.77	120.30
25	BB	59	U	C3'-C2'-C1'	6.95	107.06	101.50
25	BB	299	A	C3'-C2'-C1'	-6.95	95.94	101.50
25	BB	644	A	N9-C4-C5	6.95	108.58	105.80
25	BB	852	U	C6-N1-C2	-6.95	116.83	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	965	C	C4'-C3'-C2'	-6.95	95.66	102.60
25	BB	1132	U	N1-C1'-C2'	-6.95	104.36	112.00
25	BB	1616	A	C1'-O4'-C4'	-6.95	104.34	109.90
25	BB	1665	A	C8-N9-C4	6.95	108.58	105.80
25	BB	2080	A	C5'-C4'-O4'	6.95	117.44	109.10
25	BB	2271	G	C6-N1-C2	-6.95	120.93	125.10
3	A1	348	G	C4'-C3'-C2'	-6.94	95.66	102.60
24	BA	48	U	O4'-C4'-C3'	6.94	111.66	106.10
25	BB	1810	A	C5-N7-C8	-6.94	100.43	103.90
25	BB	2275	C	P-O3'-C3'	6.94	128.03	119.70
25	BB	2632	A	C5-N7-C8	6.94	107.37	103.90
25	BB	2783	U	P-O3'-C3'	6.94	128.03	119.70
3	A1	186	C	C6-N1-C2	-6.94	117.52	120.30
3	A1	956	U	O4'-C1'-C2'	-6.94	98.86	105.80
24	BA	87	U	C2-N3-C4	-6.94	122.83	127.00
24	BA	112	G	C5-C6-O6	6.94	132.77	128.60
25	BB	190	A	C5-N7-C8	-6.94	100.43	103.90
25	BB	1511	G	N1-C6-O6	-6.94	115.73	119.90
25	BB	2071	A	C5-C6-N6	6.94	129.25	123.70
25	BB	2344	U	N1-C2-O2	6.94	127.66	122.80
51	B2	94	ARG	CD-NE-CZ	6.94	133.32	123.60
1	AE	59	U	N3-C4-C5	-6.94	110.44	114.60
3	A1	1364	U	C1'-O4'-C4'	-6.94	104.35	109.90
25	BB	833	A	C5-C6-N1	6.94	121.17	117.70
25	BB	1088	A	C5'-C4'-O4'	6.94	117.43	109.10
25	BB	2278	A	N9-C4-C5	-6.94	103.02	105.80
25	BB	2664	G	N3-C4-N9	6.94	130.16	126.00
37	BN	47	ARG	NE-CZ-NH1	-6.94	116.83	120.30
52	B3	150	TYR	CG-CD2-CE2	6.94	126.85	121.30
25	BB	505	A	O4'-C1'-N9	6.94	113.75	108.20
25	BB	939	G	C5-C6-O6	-6.94	124.44	128.60
54	B5	44	LYS	CA-CB-CG	6.94	128.67	113.40
3	A1	142	G	N1-C2-N3	6.94	128.06	123.90
16	AQ	46	ARG	CD-NE-CZ	6.94	133.31	123.60
25	BB	131	A	C4-C5-N7	-6.94	107.23	110.70
25	BB	486	C	N3-C2-O2	-6.94	117.04	121.90
25	BB	522	A	C3'-C2'-C1'	6.94	107.05	101.50
25	BB	1117	C	C3'-C2'-C1'	6.94	107.05	101.50
25	BB	1802	A	C5-N7-C8	-6.94	100.43	103.90
25	BB	2140	G	C8-N9-C4	-6.94	103.62	106.40
25	BB	2616	C	C2-N3-C4	-6.94	116.43	119.90
49	BZ	173	ASP	CB-CG-OD1	6.94	124.54	118.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	79	G	C5-C6-O6	6.94	132.76	128.60
3	A1	224	U	N1-C1'-C2'	-6.94	104.37	112.00
3	A1	482	A	C3'-C2'-C1'	6.94	107.05	101.50
3	A1	1049	U	N1-C2-N3	6.94	119.06	114.90
24	BA	34	A	C6-N1-C2	-6.94	114.44	118.60
25	BB	861	A	C5-C6-N1	6.94	121.17	117.70
25	BB	2705	A	C4-C5-C6	-6.94	113.53	117.00
3	A1	312	C	C6-N1-C2	-6.93	117.53	120.30
3	A1	1178	G	N1-C2-N3	6.93	128.06	123.90
24	BA	99	A	C2-N3-C4	6.93	114.07	110.60
25	BB	301	G	N1-C2-N3	6.93	128.06	123.90
25	BB	856	G	O4'-C1'-N9	6.93	113.75	108.20
25	BB	982	C	N3-C2-O2	-6.93	117.05	121.90
25	BB	1248	G	C8-N9-C4	-6.93	103.63	106.40
25	BB	1319	C	C4-C5-C6	-6.93	113.93	117.40
25	BB	1767	G	N3-C4-C5	-6.93	125.13	128.60
25	BB	1917	U	C3'-C2'-C1'	6.93	107.05	101.50
25	BB	2289	G	C4-C5-N7	-6.93	108.03	110.80
25	BB	2664	G	N1-C2-N2	-6.93	109.96	116.20
3	A1	169	C	N3-C4-C5	6.93	124.67	121.90
3	A1	232	G	N7-C8-N9	6.93	116.57	113.10
3	A1	399	G	C5-C6-O6	6.93	132.76	128.60
3	A1	905	U	P-O3'-C3'	6.93	128.02	119.70
3	A1	1114	C	N3-C4-N4	-6.93	113.15	118.00
25	BB	57	C	C2-N3-C4	-6.93	116.43	119.90
25	BB	1782	U	O4'-C1'-N1	6.93	113.75	108.20
25	BB	2083	G	C3'-C2'-C1'	6.93	107.05	101.50
25	BB	2378	A	C6-C5-N7	6.93	137.15	132.30
25	BB	2820	A	N7-C8-N9	6.93	117.27	113.80
3	A1	123	U	O4'-C1'-N1	6.93	113.75	108.20
3	A1	722	G	N3-C2-N2	-6.93	115.05	119.90
3	A1	876	C	C5'-C4'-O4'	6.93	117.42	109.10
3	A1	1253	G	C8-N9-C4	-6.93	103.63	106.40
3	A1	1399	C	N3-C4-C5	6.93	124.67	121.90
24	BA	9	G	N3-C4-C5	-6.93	125.13	128.60
25	BB	83	A	C1'-O4'-C4'	-6.93	104.36	109.90
25	BB	228	C	N3-C2-O2	-6.93	117.05	121.90
25	BB	499	U	C4-C5-C6	6.93	123.86	119.70
25	BB	1138	G	N1-C6-O6	-6.93	115.74	119.90
3	A1	725	G	N7-C8-N9	6.93	116.56	113.10
3	A1	1041	G	C5-C6-O6	6.93	132.76	128.60
25	BB	392	U	N3-C2-O2	-6.93	117.35	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	682	G	C4-C5-C6	6.93	122.96	118.80
25	BB	1056	G	O4'-C1'-N9	-6.93	102.66	108.20
25	BB	1228	G	C5-N7-C8	-6.93	100.84	104.30
25	BB	1499	C	C1'-O4'-C4'	-6.93	104.36	109.90
25	BB	2129	C	O4'-C1'-N1	6.93	113.74	108.20
25	BB	2150	C	C1'-O4'-C4'	-6.93	104.36	109.90
25	BB	2668	G	N3-C4-C5	-6.93	125.14	128.60
25	BB	350	G	C5-C6-N1	6.93	114.96	111.50
25	BB	725	G	C6-N1-C2	-6.93	120.94	125.10
25	BB	2091	C	C6-N1-C2	6.93	123.07	120.30
1	AE	9	A	C1'-O4'-C4'	-6.93	104.36	109.90
3	A1	722	G	C3'-C2'-C1'	6.93	107.04	101.50
3	A1	1014	A	C2-N3-C4	6.93	114.06	110.60
3	A1	1198	G	C2-N3-C4	6.93	115.36	111.90
5	AC	60	PHE	CB-CG-CD1	-6.93	115.95	120.80
15	AO	200	TRP	CH2-CZ2-CE2	6.93	124.33	117.40
25	BB	75	G	P-O3'-C3'	6.93	128.01	119.70
25	BB	759	G	C6-N1-C2	-6.93	120.94	125.10
25	BB	780	G	C1'-O4'-C4'	-6.93	104.36	109.90
25	BB	847	U	C5'-C4'-C3'	-6.93	104.92	116.00
25	BB	1384	A	C5-C6-N6	6.93	129.24	123.70
25	BB	1494	A	C6-C5-N7	6.93	137.15	132.30
25	BB	2276	G	N3-C4-C5	-6.93	125.14	128.60
25	BB	2744	G	N3-C2-N2	-6.93	115.05	119.90
1	AE	26	G	C4-C5-C6	-6.92	114.64	118.80
3	A1	365	U	C1'-O4'-C4'	-6.92	104.36	109.90
3	A1	1079	G	C8-N9-C4	-6.92	103.63	106.40
24	BA	26	C	O4'-C1'-N1	6.92	113.74	108.20
25	BB	1200	C	C6-N1-C2	-6.92	117.53	120.30
25	BB	1605	C	O4'-C1'-N1	6.92	113.74	108.20
25	BB	2201	G	N3-C4-C5	-6.92	125.14	128.60
25	BB	2694	G	N1-C2-N3	6.92	128.06	123.90
3	A1	1147	C	C6-N1-C2	-6.92	117.53	120.30
24	BA	15	A	C5'-C4'-C3'	-6.92	104.92	116.00
25	BB	84	A	O4'-C4'-C3'	6.92	111.64	106.10
25	BB	281	C	C4-C5-C6	6.92	120.86	117.40
25	BB	484	C	C6-N1-C2	-6.92	117.53	120.30
25	BB	2395	C	C4-C5-C6	6.92	120.86	117.40
25	BB	2786	U	N1-C2-O2	6.92	127.65	122.80
3	A1	243	A	C3'-C2'-C1'	-6.92	95.96	101.50
3	A1	469	C	N3-C2-O2	-6.92	117.06	121.90
3	A1	521	G	C3'-C2'-C1'	-6.92	95.96	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	617	G	N1-C2-N3	6.92	128.05	123.90
3	A1	730	G	C5-C6-O6	-6.92	124.45	128.60
3	A1	739	C	C6-N1-C2	6.92	123.07	120.30
3	A1	927	G	N1-C6-O6	-6.92	115.75	119.90
3	A1	983	A	C4-C5-C6	-6.92	113.54	117.00
3	A1	1184	G	N9-C4-C5	6.92	108.17	105.40
3	A1	1334	G	C6-C5-N7	6.92	134.55	130.40
3	A1	1446	A	N9-C4-C5	6.92	108.57	105.80
25	BB	286	U	N3-C4-C5	6.92	118.75	114.60
25	BB	311	A	N7-C8-N9	6.92	117.26	113.80
25	BB	347	A	C5-N7-C8	-6.92	100.44	103.90
25	BB	548	G	N7-C8-N9	6.92	116.56	113.10
25	BB	687	C	N3-C4-C5	6.92	124.67	121.90
25	BB	1491	G	O4'-C1'-N9	-6.92	102.66	108.20
25	BB	1627	G	N3-C4-C5	-6.92	125.14	128.60
25	BB	1654	A	N3-C4-N9	-6.92	121.86	127.40
25	BB	1664	A	N9-C4-C5	6.92	108.57	105.80
25	BB	1756	G	C5'-C4'-O4'	6.92	117.41	109.10
25	BB	1770	G	P-O3'-C3'	6.92	128.01	119.70
25	BB	2268	A	C6-C5-N7	6.92	137.15	132.30
25	BB	2776	A	C5-C6-N1	6.92	121.16	117.70
28	BE	144	GLU	OE1-CD-OE2	-6.92	115.00	123.30
49	BZ	85	ILE	CA-CB-CG1	6.92	124.15	111.00
3	A1	1318	A	C5'-C4'-O4'	6.92	117.40	109.10
3	A1	1475	G	C5'-C4'-O4'	6.92	117.40	109.10
25	BB	519	U	N1-C2-N3	6.92	119.05	114.90
25	BB	769	U	C5-C4-O4	6.92	130.05	125.90
25	BB	794	A	C5-C6-N1	6.92	121.16	117.70
25	BB	1305	C	N3-C4-N4	-6.92	113.16	118.00
25	BB	2330	G	C2-N3-C4	6.92	115.36	111.90
3	A1	71	A	C4'-C3'-C2'	-6.92	95.68	102.60
3	A1	267	C	N3-C4-C5	6.92	124.67	121.90
3	A1	688	G	C5-C6-N1	6.92	114.96	111.50
3	A1	932	C	C2-N3-C4	-6.92	116.44	119.90
3	A1	1398	A	C6-N1-C2	-6.92	114.45	118.60
25	BB	943	A	C4-C5-N7	-6.92	107.24	110.70
25	BB	1062	G	C5-C6-N1	6.92	114.96	111.50
25	BB	1782	U	C2-N3-C4	-6.92	122.85	127.00
25	BB	2362	C	O4'-C1'-N1	6.92	113.73	108.20
25	BB	2460	U	C5-C4-O4	-6.92	121.75	125.90
1	AP	30	G	C4-C5-N7	-6.92	108.03	110.80
3	A1	481	G	N1-C2-N2	6.92	122.42	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1074	G	N1-C2-N3	6.92	128.05	123.90
3	A1	1362	A	N1-C2-N3	-6.92	125.84	129.30
3	A1	1534	A	O4'-C4'-C3'	6.92	111.63	106.10
25	BB	354	A	C1'-O4'-C4'	-6.92	104.37	109.90
25	BB	371	A	C6-C5-N7	6.92	137.14	132.30
25	BB	400	G	N3-C4-C5	-6.92	125.14	128.60
25	BB	706	A	C2-N3-C4	6.92	114.06	110.60
25	BB	1505	A	C5-C6-N1	6.92	121.16	117.70
25	BB	1627	G	O4'-C1'-N9	-6.92	102.67	108.20
25	BB	1661	G	C4-C5-N7	6.92	113.57	110.80
25	BB	1785	A	P-O3'-C3'	6.92	128.00	119.70
25	BB	2718	G	C5-C6-N1	6.92	114.96	111.50
48	BY	131	ASP	CB-CG-OD1	6.92	124.52	118.30
51	B2	112	ASP	CB-CG-OD2	-6.92	112.08	118.30
1	AE	58	A	N3-C4-N9	-6.92	121.87	127.40
3	A1	83	C	C5-C6-N1	-6.92	117.54	121.00
3	A1	295	C	C5'-C4'-O4'	-6.92	100.80	109.10
3	A1	347	G	N1-C2-N3	6.92	128.05	123.90
3	A1	529	G	C3'-C2'-C1'	6.92	107.03	101.50
3	A1	853	C	C5-C6-N1	-6.92	117.54	121.00
25	BB	1336	A	O4'-C1'-N9	6.92	113.73	108.20
52	B3	101	VAL	CG1-CB-CG2	-6.92	99.83	110.90
3	A1	1292	G	C8-N9-C4	6.91	109.17	106.40
3	A1	1318	A	P-O3'-C3'	6.91	128.00	119.70
3	A1	1389	C	C6-N1-C2	-6.91	117.53	120.30
25	BB	44	A	N9-C4-C5	-6.91	103.03	105.80
25	BB	434	U	C5-C6-N1	-6.91	119.24	122.70
25	BB	514	A	N3-C4-N9	-6.91	121.87	127.40
25	BB	748	G	C4-C5-N7	6.91	113.57	110.80
25	BB	1675	C	C5'-C4'-O4'	-6.91	100.80	109.10
25	BB	1798	U	C5'-C4'-O4'	6.91	117.40	109.10
25	BB	1865	U	N1-C2-O2	6.91	127.64	122.80
25	BB	2114	A	C5'-C4'-O4'	6.91	117.39	109.10
1	AA	57	G	N3-C4-N9	-6.91	121.85	126.00
25	BB	1176	U	C5-C6-N1	-6.91	119.24	122.70
25	BB	1588	G	C5-C6-O6	6.91	132.75	128.60
3	A1	437	U	N3-C4-O4	6.91	124.24	119.40
3	A1	450	G	N3-C4-C5	-6.91	125.14	128.60
3	A1	613	C	C2-N3-C4	-6.91	116.44	119.90
3	A1	877	G	C5-C6-N1	6.91	114.96	111.50
3	A1	994	A	N9-C4-C5	-6.91	103.04	105.80
6	AD	80	LEU	CB-CG-CD2	6.91	122.75	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
17	AR	187	ARG	NH1-CZ-NH2	-6.91	111.80	119.40
25	BB	54	G	C8-N9-C1'	6.91	135.98	127.00
25	BB	438	G	C5-N7-C8	-6.91	100.84	104.30
25	BB	524	G	O4'-C4'-C3'	6.91	111.63	106.10
25	BB	777	G	C6-C5-N7	6.91	134.55	130.40
25	BB	983	A	N1-C6-N6	-6.91	114.45	118.60
25	BB	1002	G	C5'-C4'-O4'	6.91	117.39	109.10
25	BB	1041	G	C8-N9-C4	-6.91	103.64	106.40
25	BB	1178	C	N3-C4-C5	-6.91	119.14	121.90
25	BB	1528	A	OP1-P-OP2	-6.91	109.23	119.60
25	BB	2182	U	C3'-C2'-C1'	6.91	107.03	101.50
25	BB	2713	U	P-O3'-C3'	6.91	127.99	119.70
1	AA	53	G	O5'-P-OP2	-6.91	99.48	105.70
3	A1	144	G	C6-N1-C2	-6.91	120.95	125.10
3	A1	529	G	C5-N7-C8	6.91	107.75	104.30
3	A1	577	G	N3-C4-C5	-6.91	125.15	128.60
3	A1	1216	A	N9-C4-C5	-6.91	103.04	105.80
3	A1	1525	G	N3-C4-N9	6.91	130.15	126.00
24	BA	45	A	O4'-C1'-N9	-6.91	102.67	108.20
25	BB	84	A	C2-N3-C4	6.91	114.06	110.60
25	BB	402	A	N1-C2-N3	-6.91	125.84	129.30
25	BB	1064	C	N3-C4-N4	-6.91	113.16	118.00
25	BB	1651	G	N3-C4-C5	-6.91	125.15	128.60
25	BB	1750	G	C1'-O4'-C4'	-6.91	104.37	109.90
25	BB	1987	A	N3-C4-C5	6.91	131.64	126.80
25	BB	2814	A	O4'-C1'-C2'	-6.91	98.89	105.80
3	A1	129	A	O4'-C4'-C3'	6.91	111.62	106.10
3	A1	364	A	C5-C6-N6	6.91	129.23	123.70
3	A1	1213	A	O4'-C1'-N9	6.91	113.73	108.20
25	BB	470	A	C3'-C2'-C1'	6.91	107.03	101.50
25	BB	569	U	N1-C2-O2	6.91	127.64	122.80
25	BB	1026	G	C5-C6-N1	6.91	114.95	111.50
25	BB	2331	G	C6-C5-N7	6.91	134.54	130.40
25	BB	2526	G	C5-C6-N1	6.91	114.95	111.50
25	BB	2629	U	C5-C6-N1	-6.91	119.25	122.70
37	BN	29	PHE	CB-CG-CD2	-6.91	115.97	120.80
51	B2	41	GLU	OE1-CD-OE2	-6.91	115.01	123.30
1	AA	6	U	N1-C2-N3	6.91	119.04	114.90
3	A1	706	A	O4'-C1'-N9	6.91	113.72	108.20
3	A1	799	G	C2-N3-C4	-6.91	108.45	111.90
3	A1	1387	G	C8-N9-C4	-6.91	103.64	106.40
3	A1	1523	G	N1-C6-O6	6.91	124.04	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	AD	88	ASP	OD1-CG-OD2	-6.91	110.18	123.30
19	AT	24	ARG	NE-CZ-NH2	-6.91	116.85	120.30
25	BB	74	A	C5-C6-N1	6.91	121.15	117.70
25	BB	74	A	C8-N9-C4	6.91	108.56	105.80
25	BB	214	G	N1-C6-O6	-6.91	115.76	119.90
25	BB	604	G	C1'-O4'-C4'	-6.91	104.38	109.90
25	BB	681	G	N3-C4-N9	-6.91	121.86	126.00
25	BB	1364	G	C5'-C4'-O4'	6.91	117.39	109.10
25	BB	1532	A	C5-N7-C8	-6.91	100.45	103.90
25	BB	2113	U	C2-N3-C4	-6.91	122.86	127.00
25	BB	2355	G	C4'-C3'-C2'	-6.91	95.69	102.60
25	BB	2624	G	C1'-O4'-C4'	-6.91	104.38	109.90
30	BG	4	ARG	NH1-CZ-NH2	-6.91	111.80	119.40
3	A1	1489	G	C5'-C4'-O4'	6.90	117.38	109.10
3	A1	1505	G	N9-C1'-C2'	6.90	122.98	114.00
25	BB	30	G	C6-N1-C2	-6.90	120.96	125.10
25	BB	637	A	C2-N3-C4	6.90	114.05	110.60
25	BB	1817	G	N1-C6-O6	-6.90	115.76	119.90
1	AP	54	U	N1-C1'-C2'	-6.90	104.41	112.00
1	AE	72	C	C5-C4-N4	-6.90	115.37	120.20
3	A1	177	G	O4'-C4'-C3'	-6.90	97.10	104.00
25	BB	1456	G	C5-C6-N1	6.90	114.95	111.50
25	BB	1575	C	C6-N1-C2	-6.90	117.54	120.30
25	BB	1683	U	C4-C5-C6	6.90	123.84	119.70
25	BB	1719	G	C2-N3-C4	-6.90	108.45	111.90
25	BB	1720	U	C6-N1-C2	-6.90	116.86	121.00
25	BB	1749	A	N3-C4-C5	6.90	131.63	126.80
3	A1	33	A	C6-N1-C2	-6.90	114.46	118.60
3	A1	791	G	C5-C6-O6	6.90	132.74	128.60
3	A1	836	G	N1-C2-N3	6.90	128.04	123.90
25	BB	125	A	C2-N3-C4	6.90	114.05	110.60
25	BB	218	A	C6-C5-N7	6.90	137.13	132.30
25	BB	236	C	P-O3'-C3'	6.90	127.98	119.70
25	BB	395	U	C4'-C3'-C2'	-6.90	95.70	102.60
25	BB	421	C	C3'-C2'-C1'	-6.90	95.98	101.50
25	BB	487	C	C5-C6-N1	-6.90	117.55	121.00
25	BB	907	G	C5-C6-N1	6.90	114.95	111.50
25	BB	1324	G	C2-N3-C4	-6.90	108.45	111.90
25	BB	1426	G	O4'-C1'-N9	6.90	113.72	108.20
25	BB	2296	U	N3-C4-C5	-6.90	110.46	114.60
25	BB	2388	A	C2-N3-C4	6.90	114.05	110.60
25	BB	2467	C	N1-C2-O2	6.90	123.04	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1008	U	N1-C1'-C2'	-6.90	104.41	112.00
24	BA	96	G	N1-C6-O6	-6.90	115.76	119.90
25	BB	2311	A	C4-C5-C6	-6.90	113.55	117.00
25	BB	2423	U	O4'-C1'-N1	6.90	113.72	108.20
3	A1	628	G	C4'-C3'-C2'	-6.90	95.70	102.60
3	A1	1178	G	C6-N1-C2	-6.90	120.96	125.10
25	BB	28	A	C6-C5-N7	6.90	137.13	132.30
25	BB	748	G	C8-N9-C4	-6.90	103.64	106.40
25	BB	1359	A	C5-C6-N1	6.90	121.15	117.70
25	BB	2494	G	C5'-C4'-O4'	6.90	117.38	109.10
25	BB	2555	U	C5'-C4'-O4'	-6.90	100.82	109.10
25	BB	2858	C	N1-C2-O2	6.90	123.04	118.90
34	BK	21	ARG	NE-CZ-NH2	6.90	123.75	120.30
3	A1	538	G	N3-C2-N2	-6.90	115.07	119.90
3	A1	902	G	N3-C4-C5	-6.90	125.15	128.60
19	AT	79	ARG	NE-CZ-NH2	6.90	123.75	120.30
20	AU	77	ARG	NH1-CZ-NH2	-6.90	111.81	119.40
25	BB	2139	U	C5-C4-O4	-6.90	121.76	125.90
25	BB	2150	C	N3-C2-O2	-6.90	117.07	121.90
25	BB	2253	G	N3-C4-N9	6.90	130.14	126.00
3	A1	259	G	N1-C2-N3	6.89	128.04	123.90
3	A1	537	G	C5-C6-O6	6.89	132.74	128.60
3	A1	742	G	N1-C2-N2	-6.89	110.00	116.20
3	A1	1099	G	N1-C6-O6	-6.89	115.76	119.90
3	A1	1279	G	N3-C2-N2	6.89	124.73	119.90
25	BB	539	G	C6-C5-N7	6.89	134.54	130.40
25	BB	733	G	N3-C4-C5	-6.89	125.15	128.60
25	BB	1186	G	C4'-C3'-C2'	-6.89	95.71	102.60
25	BB	2414	G	C6-C5-N7	6.89	134.54	130.40
25	BB	2699	C	C6-N1-C2	-6.89	117.54	120.30
55	B6	128	ASN	CB-CA-C	6.89	124.19	110.40
1	AA	21	A	C6-N1-C2	6.89	122.74	118.60
1	AP	66	A	C4'-C3'-C2'	-6.89	95.71	102.60
3	A1	966	G	O3'-P-O5'	6.89	117.10	104.00
25	BB	189	G	C2-N3-C4	6.89	115.35	111.90
25	BB	1505	A	C4'-C3'-C2'	-6.89	95.71	102.60
25	BB	1573	G	C2-N3-C4	6.89	115.35	111.90
25	BB	2270	A	C4-C5-C6	-6.89	113.55	117.00
25	BB	2584	U	C2-N3-C4	-6.89	122.86	127.00
1	AE	63	C	P-O3'-C3'	6.89	127.97	119.70
3	A1	416	G	C2-N3-C4	-6.89	108.45	111.90
3	A1	1176	A	C5-C6-N1	6.89	121.15	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1322	A	C5-C6-N1	6.89	121.15	117.70
25	BB	2050	C	C6-N1-C2	-6.89	117.54	120.30
25	BB	2230	G	N1-C6-O6	-6.89	115.77	119.90
25	BB	2797	U	C6-N1-C2	6.89	125.14	121.00
49	BZ	75	TYR	CZ-CE2-CD2	6.89	126.00	119.80
1	AE	34	G	N3-C4-N9	6.89	130.13	126.00
3	A1	105	G	N1-C6-O6	6.89	124.03	119.90
3	A1	227	G	C4'-C3'-C2'	-6.89	95.71	102.60
3	A1	315	A	C5-C6-N1	6.89	121.14	117.70
3	A1	742	G	N1-C6-O6	-6.89	115.77	119.90
3	A1	856	C	N3-C2-O2	-6.89	117.08	121.90
3	A1	968	A	C5'-C4'-O4'	6.89	117.37	109.10
3	A1	976	G	C4'-C3'-C2'	-6.89	95.71	102.60
3	A1	989	U	C4-C5-C6	6.89	123.83	119.70
3	A1	1341	U	C2-N3-C4	-6.89	122.87	127.00
25	BB	696	G	C4'-C3'-C2'	-6.89	95.71	102.60
25	BB	1410	G	C5-C6-O6	6.89	132.73	128.60
25	BB	2159	G	O4'-C1'-N9	6.89	113.71	108.20
25	BB	2827	C	C6-N1-C2	-6.89	117.55	120.30
54	B5	41	PHE	CG-CD2-CE2	-6.89	113.22	120.80
55	B6	4	PHE	CB-CG-CD2	-6.89	115.98	120.80
1	AA	64	A	N7-C8-N9	6.89	117.24	113.80
1	AP	9	A	N9-C1'-C2'	-6.89	104.42	112.00
3	A1	49	U	N3-C2-O2	-6.89	117.38	122.20
3	A1	311	C	N3-C4-C5	6.89	124.66	121.90
3	A1	667	G	C5'-C4'-C3'	-6.89	104.98	116.00
25	BB	798	G	C4-C5-C6	-6.89	114.67	118.80
25	BB	1069	A	N9-C1'-C2'	6.89	122.95	114.00
25	BB	1889	A	O4'-C1'-C2'	-6.89	98.91	105.80
25	BB	2137	U	N3-C2-O2	-6.89	117.38	122.20
25	BB	2501	C	C1'-O4'-C4'	6.89	115.41	109.90
1	AE	24	G	O4'-C1'-N9	-6.89	102.69	108.20
1	AE	34	G	C2-N3-C4	6.89	115.34	111.90
3	A1	817	C	N3-C4-C5	-6.89	119.14	121.90
25	BB	179	C	N1-C2-O2	6.89	123.03	118.90
25	BB	486	C	N3-C4-N4	-6.89	113.18	118.00
25	BB	817	C	N3-C4-C5	6.89	124.66	121.90
25	BB	1471	G	N9-C1'-C2'	6.89	122.95	114.00
25	BB	2169	A	O4'-C1'-N9	-6.89	102.69	108.20
25	BB	2593	U	N1-C2-O2	6.89	127.62	122.80
1	AP	20	G	N9-C4-C5	6.88	108.15	105.40
3	A1	425	G	C6-N1-C2	-6.88	120.97	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	801	U	C3'-C2'-C1'	6.88	107.01	101.50
3	A1	1425	U	C3'-C2'-C1'	6.88	107.01	101.50
25	BB	179	C	N3-C4-C5	6.88	124.65	121.90
25	BB	594	U	C1'-O4'-C4'	-6.88	104.39	109.90
25	BB	668	A	C4-C5-C6	-6.88	113.56	117.00
25	BB	1271	G	C8-N9-C4	-6.88	103.65	106.40
25	BB	1367	A	C8-N9-C4	6.88	108.55	105.80
25	BB	2624	G	C5-C6-N1	6.88	114.94	111.50
25	BB	2785	C	C2-N3-C4	-6.88	116.46	119.90
3	A1	1265	C	N3-C4-N4	-6.88	113.18	118.00
25	BB	596	U	C4'-C3'-C2'	-6.88	95.72	102.60
25	BB	1797	G	N9-C4-C5	6.88	108.15	105.40
3	A1	141	G	C6-C5-N7	6.88	134.53	130.40
3	A1	212	G	C2-N3-C4	6.88	115.34	111.90
15	AO	183	TYR	CG-CD2-CE2	6.88	126.81	121.30
25	BB	122	G	C8-N9-C4	-6.88	103.65	106.40
25	BB	142	A	C6-N1-C2	-6.88	114.47	118.60
25	BB	261	G	C4-C5-C6	-6.88	114.67	118.80
25	BB	1525	A	C2'-C3'-O3'	6.88	124.71	113.70
25	BB	1738	G	C4-C5-C6	-6.88	114.67	118.80
25	BB	1740	G	C4'-C3'-C2'	-6.88	95.72	102.60
25	BB	1816	C	N1-C2-O2	6.88	123.03	118.90
25	BB	2220	U	C4-C5-C6	6.88	123.83	119.70
25	BB	2295	C	N3-C2-O2	-6.88	117.08	121.90
25	BB	2802	G	C4-C5-N7	6.88	113.55	110.80
25	BB	2881	U	N1-C2-N3	6.88	119.03	114.90
3	A1	1066	C	O4'-C4'-C3'	6.88	111.60	106.10
3	A1	1190	G	C1'-O4'-C4'	-6.88	104.40	109.90
25	BB	289	G	O4'-C1'-C2'	6.88	113.79	107.60
25	BB	1392	A	C2-N3-C4	6.88	114.04	110.60
25	BB	1788	C	N3-C2-O2	-6.88	117.08	121.90
25	BB	1970	A	C3'-C2'-C1'	-6.88	96.00	101.50
25	BB	2014	A	C8-N9-C4	-6.88	103.05	105.80
3	A1	114	U	N3-C2-O2	-6.88	117.39	122.20
3	A1	609	A	O5'-P-OP2	-6.88	99.51	105.70
3	A1	1214	C	C5-C4-N4	6.88	125.02	120.20
3	A1	1243	C	N3-C2-O2	-6.88	117.08	121.90
9	AH	57	ARG	CD-NE-CZ	6.88	133.23	123.60
25	BB	71	A	O4'-C4'-C3'	6.88	111.60	106.10
25	BB	88	G	C4-C5-C6	-6.88	114.67	118.80
25	BB	990	A	C4-C5-C6	-6.88	113.56	117.00
25	BB	1184	U	C2-N3-C4	-6.88	122.87	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1692	U	N3-C4-C5	6.88	118.73	114.60
25	BB	1719	G	C4'-C3'-C2'	-6.88	95.72	102.60
25	BB	2523	G	C5'-C4'-O4'	6.88	117.36	109.10
33	BJ	24	TYR	CD1-CE1-CZ	6.88	125.99	119.80
1	AE	6	U	N3-C4-O4	-6.88	114.59	119.40
3	A1	114	U	C4-C5-C6	6.88	123.83	119.70
3	A1	119	A	C5-C6-N6	6.88	129.20	123.70
3	A1	596	A	O4'-C1'-N9	6.88	113.70	108.20
3	A1	1221	G	N1-C2-N3	6.88	128.03	123.90
3	A1	1509	C	C5'-C4'-C3'	-6.88	105.00	116.00
3	A1	1529	G	O4'-C4'-C3'	6.88	111.60	106.10
25	BB	182	A	O4'-C1'-N9	6.88	113.70	108.20
25	BB	263	G	N3-C4-N9	6.88	130.12	126.00
25	BB	910	A	C4-C5-C6	-6.88	113.56	117.00
25	BB	1691	C	C1'-O4'-C4'	-6.88	104.40	109.90
25	BB	1785	A	C2-N3-C4	6.88	114.04	110.60
25	BB	1944	U	C4'-C3'-C2'	-6.88	95.72	102.60
25	BB	2374	C	C6-N1-C2	-6.88	117.55	120.30
25	BB	2469	A	C2-N3-C4	6.88	114.04	110.60
55	B6	119	PHE	CG-CD1-CE1	-6.88	113.23	120.80
3	A1	961	U	C4-C5-C6	6.88	123.83	119.70
3	A1	1497	G	N9-C4-C5	6.88	108.15	105.40
25	BB	2287	A	C5-N7-C8	-6.88	100.46	103.90
31	BH	25	ARG	NE-CZ-NH2	6.88	123.74	120.30
3	A1	47	C	C5-C6-N1	-6.87	117.56	121.00
3	A1	785	G	N1-C6-O6	-6.87	115.78	119.90
3	A1	1171	A	C8-N9-C4	-6.87	103.05	105.80
3	A1	1385	G	C5'-C4'-O4'	6.87	117.35	109.10
3	A1	1476	A	C4-C5-C6	-6.87	113.56	117.00
3	A1	1486	G	O4'-C1'-N9	6.87	113.70	108.20
25	BB	84	A	N1-C2-N3	-6.87	125.86	129.30
25	BB	345	A	O4'-C1'-N9	6.87	113.70	108.20
25	BB	505	A	C8-N9-C4	-6.87	103.05	105.80
25	BB	712	G	O4'-C4'-C3'	6.87	111.60	106.10
25	BB	1009	A	C3'-C2'-C1'	6.87	107.00	101.50
25	BB	1485	U	O4'-C1'-N1	6.87	113.70	108.20
3	A1	6	G	N3-C4-N9	-6.87	121.88	126.00
3	A1	562	U	C5-C6-N1	-6.87	119.27	122.70
3	A1	735	C	N3-C2-O2	-6.87	117.09	121.90
3	A1	777	A	C3'-C2'-C1'	6.87	107.00	101.50
3	A1	833	G	C6-N1-C2	-6.87	120.98	125.10
3	A1	1067	A	O4'-C4'-C3'	-6.87	97.13	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1470	U	C5'-C4'-C3'	-6.87	105.00	116.00
25	BB	62	U	N1-C2-O2	-6.87	117.99	122.80
25	BB	70	G	C5-C6-O6	-6.87	124.48	128.60
25	BB	281	C	C5-C6-N1	-6.87	117.56	121.00
25	BB	532	A	N1-C2-N3	6.87	132.74	129.30
25	BB	664	G	N1-C6-O6	-6.87	115.78	119.90
25	BB	1149	G	C5-C6-N1	6.87	114.94	111.50
25	BB	1369	G	C6-N1-C2	-6.87	120.98	125.10
25	BB	1423	G	N1-C6-O6	-6.87	115.78	119.90
25	BB	1738	G	N3-C2-N2	-6.87	115.09	119.90
25	BB	2181	U	C4-C5-C6	6.87	123.82	119.70
25	BB	2191	A	O4'-C4'-C3'	6.87	111.60	106.10
25	BB	2331	G	N3-C4-C5	-6.87	125.16	128.60
25	BB	2388	A	C6-N1-C2	-6.87	114.48	118.60
3	A1	40	C	C4-C5-C6	-6.87	113.97	117.40
24	BA	19	C	C6-N1-C2	-6.87	117.55	120.30
25	BB	474	G	N1-C6-O6	-6.87	115.78	119.90
25	BB	878	A	O4'-C1'-C2'	-6.87	98.93	105.80
1	AP	46	G	N7-C8-N9	-6.87	109.67	113.10
3	A1	108	G	N3-C2-N2	-6.87	115.09	119.90
3	A1	230	G	C6-N1-C2	-6.87	120.98	125.10
3	A1	326	G	C4-N9-C1'	6.87	135.43	126.50
3	A1	435	A	C1'-O4'-C4'	-6.87	104.41	109.90
3	A1	470	C	O4'-C4'-C3'	6.87	111.59	106.10
3	A1	573	A	C5-C6-N1	6.87	121.13	117.70
3	A1	799	G	C4-C5-C6	-6.87	114.68	118.80
3	A1	819	A	N1-C2-N3	6.87	132.73	129.30
3	A1	1212	U	N1-C2-N3	6.87	119.02	114.90
3	A1	1495	U	N3-C4-O4	6.87	124.21	119.40
3	A1	1520	C	N1-C2-O2	6.87	123.02	118.90
24	BA	15	A	N9-C4-C5	-6.87	103.05	105.80
25	BB	832	U	N3-C2-O2	-6.87	117.39	122.20
25	BB	932	U	N3-C2-O2	-6.87	117.39	122.20
25	BB	1115	G	N1-C6-O6	-6.87	115.78	119.90
25	BB	1162	G	N1-C2-N3	6.87	128.02	123.90
25	BB	1444	G	N3-C2-N2	-6.87	115.09	119.90
25	BB	1622	G	N3-C4-C5	-6.87	125.17	128.60
25	BB	1648	U	C1'-O4'-C4'	-6.87	104.41	109.90
25	BB	2071	A	N1-C2-N3	-6.87	125.86	129.30
25	BB	2335	A	N7-C8-N9	-6.87	110.36	113.80
25	BB	2502	G	C5-C6-O6	6.87	132.72	128.60
25	BB	2866	U	C5-C6-N1	-6.87	119.27	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	462	G	N9-C4-C5	6.87	108.15	105.40
3	A1	1313	U	C5-C4-O4	-6.87	121.78	125.90
25	BB	229	C	C6-N1-C2	-6.87	117.55	120.30
25	BB	881	G	N1-C6-O6	-6.87	115.78	119.90
25	BB	973	A	N1-C2-N3	-6.87	125.87	129.30
25	BB	1023	U	N1-C2-O2	6.87	127.61	122.80
25	BB	1532	A	C5'-C4'-O4'	6.87	117.34	109.10
25	BB	2431	U	C1'-O4'-C4'	-6.87	104.41	109.90
25	BB	2665	A	C6-N1-C2	6.87	122.72	118.60
28	BE	107	PHE	CB-CG-CD2	-6.87	115.99	120.80
1	AA	67	A	N3-C4-C5	6.87	131.61	126.80
1	AP	56	C	C2-N3-C4	-6.87	116.47	119.90
3	A1	515	G	O4'-C4'-C3'	-6.87	97.13	104.00
3	A1	766	A	C5-N7-C8	6.87	107.33	103.90
3	A1	1163	A	C5'-C4'-O4'	6.87	117.34	109.10
22	AW	14	SER	C-N-CA	6.87	138.86	121.70
25	BB	140	C	N1-C2-N3	6.87	124.01	119.20
25	BB	449	A	N7-C8-N9	-6.87	110.37	113.80
25	BB	923	G	C6-N1-C2	-6.87	120.98	125.10
25	BB	1041	G	O4'-C4'-C3'	6.87	111.59	106.10
25	BB	1194	A	C5-C6-N6	6.87	129.19	123.70
25	BB	1314	C	C5-C6-N1	-6.87	117.57	121.00
25	BB	1429	G	C5-C6-N1	6.87	114.93	111.50
25	BB	1666	G	C4-C5-N7	-6.87	108.05	110.80
25	BB	2175	C	C2-N3-C4	-6.87	116.47	119.90
25	BB	2868	A	C5'-C4'-C3'	-6.87	105.02	116.00
3	A1	10	A	C5-C6-N1	6.86	121.13	117.70
3	A1	335	C	N3-C4-N4	-6.86	113.19	118.00
3	A1	880	C	C6-N1-C2	-6.86	117.55	120.30
3	A1	1072	G	C4-C5-N7	-6.86	108.05	110.80
3	A1	1104	G	P-O5'-C5'	6.86	131.88	120.90
3	A1	1264	U	C2-N3-C4	-6.86	122.88	127.00
3	A1	1417	G	C4-C5-N7	-6.86	108.06	110.80
16	AQ	20	ARG	NE-CZ-NH1	6.86	123.73	120.30
25	BB	439	A	C1'-O4'-C4'	-6.86	104.41	109.90
25	BB	626	A	C5-C6-N6	6.86	129.19	123.70
25	BB	715	A	C4-C5-C6	-6.86	113.57	117.00
25	BB	745	G	C5-C6-N1	6.86	114.93	111.50
25	BB	1928	A	C3'-C2'-C1'	6.86	106.99	101.50
25	BB	2085	U	N1-C2-O2	6.86	127.60	122.80
25	BB	2534	A	C5-C6-N6	6.86	129.19	123.70
25	BB	2716	C	C3'-C2'-C1'	-6.86	96.01	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1151	A	C5-N7-C8	-6.86	100.47	103.90
3	A1	1168	U	C6-N1-C2	-6.86	116.88	121.00
25	BB	94	A	N1-C6-N6	-6.86	114.48	118.60
25	BB	544	C	C3'-C2'-C1'	6.86	106.99	101.50
25	BB	1844	C	O4'-C1'-N1	6.86	113.69	108.20
25	BB	1948	G	N3-C4-N9	6.86	130.12	126.00
25	BB	2265	U	N3-C2-O2	-6.86	117.40	122.20
1	AP	49	C	N3-C2-O2	-6.86	117.10	121.90
3	A1	890	G	O4'-C1'-C2'	6.86	113.78	107.60
3	A1	902	G	N9-C1'-C2'	-6.86	104.45	112.00
3	A1	1476	A	C2'-C3'-O3'	6.86	124.68	113.70
24	BA	18	G	C5'-C4'-C3'	-6.86	105.02	116.00
25	BB	565	C	N3-C2-O2	-6.86	117.10	121.90
25	BB	603	A	N7-C8-N9	-6.86	110.37	113.80
25	BB	693	A	N7-C8-N9	6.86	117.23	113.80
25	BB	1230	A	C5-N7-C8	-6.86	100.47	103.90
25	BB	2141	G	C6-N1-C2	-6.86	120.98	125.10
25	BB	2147	A	C5'-C4'-O4'	-6.86	100.87	109.10
25	BB	2793	C	N1-C2-N3	6.86	124.00	119.20
50	B1	21	ARG	NE-CZ-NH2	6.86	123.73	120.30
3	A1	585	G	C8-N9-C4	-6.86	103.66	106.40
25	BB	1365	A	C6-C5-N7	6.86	137.10	132.30
25	BB	1918	A	C1'-O4'-C4'	-6.86	104.41	109.90
25	BB	2611	C	C3'-C2'-C1'	6.86	106.99	101.50
1	AA	16	U	C5-C4-O4	6.86	130.01	125.90
3	A1	51	A	N3-C4-C5	-6.86	122.00	126.80
3	A1	729	A	C1'-O4'-C4'	6.86	115.39	109.90
3	A1	735	C	C5'-C4'-C3'	-6.86	105.03	116.00
3	A1	814	A	C6-N1-C2	-6.86	114.49	118.60
3	A1	867	G	P-O3'-C3'	6.86	127.93	119.70
3	A1	1127	G	N3-C2-N2	-6.86	115.10	119.90
3	A1	1280	A	C5'-C4'-O4'	6.86	117.33	109.10
25	BB	538	A	C2-N3-C4	6.86	114.03	110.60
25	BB	751	A	O4'-C1'-N9	6.86	113.69	108.20
25	BB	810	U	N3-C4-C5	6.86	118.71	114.60
25	BB	923	G	C5-C6-N1	6.86	114.93	111.50
25	BB	1215	G	O4'-C1'-N9	6.86	113.69	108.20
25	BB	1308	A	N9-C4-C5	-6.86	103.06	105.80
25	BB	1421	G	N7-C8-N9	6.86	116.53	113.10
25	BB	1781	U	N3-C4-O4	-6.86	114.60	119.40
25	BB	2131	U	O4'-C1'-C2'	-6.86	98.94	105.80
25	BB	2275	C	C4'-C3'-C2'	6.86	109.46	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	BW	12	ARG	NE-CZ-NH1	6.86	123.73	120.30
3	A1	149	A	C6-N1-C2	-6.86	114.49	118.60
3	A1	224	U	P-O3'-C3'	6.86	127.93	119.70
3	A1	407	U	N1-C2-O2	6.86	127.60	122.80
3	A1	455	G	N3-C4-C5	-6.86	125.17	128.60
3	A1	883	C	C4'-C3'-C2'	-6.86	95.74	102.60
3	A1	983	A	C6-C5-N7	6.86	137.10	132.30
3	A1	1161	C	N3-C2-O2	-6.86	117.10	121.90
3	A1	1337	G	C5-N7-C8	-6.86	100.87	104.30
4	AB	62	ARG	NE-CZ-NH2	-6.86	116.87	120.30
25	BB	369	U	C1'-O4'-C4'	-6.86	104.42	109.90
25	BB	432	A	C2-N3-C4	-6.86	107.17	110.60
25	BB	968	C	C4-C5-C6	-6.86	113.97	117.40
25	BB	1516	G	O4'-C4'-C3'	6.86	111.58	106.10
25	BB	1808	A	O4'-C1'-N9	6.86	113.68	108.20
25	BB	2535	G	C6-N1-C2	-6.86	120.99	125.10
25	BB	2841	C	C5-C4-N4	-6.86	115.40	120.20
3	A1	60	A	C4-C5-C6	-6.85	113.57	117.00
3	A1	117	G	N9-C4-C5	6.85	108.14	105.40
3	A1	275	G	C8-N9-C4	-6.85	103.66	106.40
3	A1	1192	C	N3-C4-N4	-6.85	113.20	118.00
3	A1	1312	G	C8-N9-C4	6.85	109.14	106.40
25	BB	36	G	C3'-C2'-C1'	6.85	106.98	101.50
25	BB	1087	G	N3-C2-N2	-6.85	115.10	119.90
53	B4	50	ARG	NE-CZ-NH1	6.85	123.73	120.30
3	A1	596	A	C2-N3-C4	6.85	114.03	110.60
3	A1	907	A	C2-N3-C4	6.85	114.03	110.60
3	A1	1262	C	O4'-C4'-C3'	6.85	111.58	106.10
3	A1	1332	A	N7-C8-N9	6.85	117.23	113.80
3	A1	1374	A	C4-C5-N7	6.85	114.13	110.70
3	A1	1413	A	C1'-O4'-C4'	-6.85	104.42	109.90
24	BA	37	C	C1'-O4'-C4'	-6.85	104.42	109.90
25	BB	227	A	C6-C5-N7	6.85	137.10	132.30
25	BB	647	G	C2-N3-C4	-6.85	108.47	111.90
25	BB	808	G	N3-C2-N2	-6.85	115.10	119.90
25	BB	1232	G	C5-C6-N1	6.85	114.93	111.50
29	BF	16	ARG	NH1-CZ-NH2	-6.85	111.86	119.40
51	B2	17	THR	O-C-N	-6.85	111.74	122.70
3	A1	1213	A	C1'-O4'-C4'	-6.85	104.42	109.90
25	BB	669	G	N7-C8-N9	6.85	116.53	113.10
25	BB	900	A	O4'-C1'-N9	6.85	113.68	108.20
25	BB	1731	G	O4'-C1'-N9	6.85	113.68	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2279	G	N3-C4-N9	-6.85	121.89	126.00
25	BB	2346	A	O4'-C1'-N9	6.85	113.68	108.20
25	BB	2619	C	C6-N1-C2	-6.85	117.56	120.30
25	BB	2698	U	C3'-C2'-C1'	6.85	106.98	101.50
3	A1	21	G	N3-C4-N9	6.85	130.11	126.00
3	A1	51	A	C5-N7-C8	6.85	107.32	103.90
3	A1	106	C	C3'-C2'-C1'	-6.85	96.02	101.50
3	A1	688	G	C6-C5-N7	6.85	134.51	130.40
3	A1	699	C	N3-C4-C5	6.85	124.64	121.90
3	A1	710	G	C5-C6-O6	6.85	132.71	128.60
3	A1	863	U	C5-C4-O4	-6.85	121.79	125.90
3	A1	1252	A	C6-C5-N7	6.85	137.09	132.30
25	BB	46	G	N3-C4-C5	-6.85	125.17	128.60
25	BB	259	G	N3-C2-N2	6.85	124.69	119.90
25	BB	712	G	C1'-O4'-C4'	-6.85	104.42	109.90
25	BB	734	A	C1'-O4'-C4'	-6.85	104.42	109.90
25	BB	798	G	C3'-C2'-C1'	-6.85	96.02	101.50
25	BB	975	A	C5'-C4'-O4'	6.85	117.32	109.10
25	BB	1222	U	C6-N1-C2	6.85	125.11	121.00
25	BB	1459	G	C6-C5-N7	-6.85	126.29	130.40
25	BB	1529	G	C5-C6-O6	6.85	132.71	128.60
25	BB	1688	U	C5'-C4'-O4'	6.85	117.32	109.10
25	BB	1919	A	C4-C5-N7	-6.85	107.28	110.70
25	BB	1994	C	C1'-O4'-C4'	-6.85	104.42	109.90
25	BB	2068	U	N1-C1'-C2'	6.85	122.90	114.00
25	BB	2197	U	C4-C5-C6	6.85	123.81	119.70
3	A1	1066	C	N3-C4-C5	-6.85	119.16	121.90
3	A1	1241	G	C4-C5-N7	-6.85	108.06	110.80
25	BB	45	G	C2-N3-C4	6.85	115.32	111.90
25	BB	133	U	N1-C2-N3	6.85	119.01	114.90
25	BB	629	G	C8-N9-C4	-6.85	103.66	106.40
25	BB	740	C	C5'-C4'-O4'	6.85	117.32	109.10
25	BB	760	G	C5-C6-N1	6.85	114.92	111.50
25	BB	1128	G	N1-C6-O6	-6.85	115.79	119.90
25	BB	1365	A	C6-N1-C2	6.85	122.71	118.60
25	BB	2355	G	C1'-O4'-C4'	-6.85	104.42	109.90
25	BB	2623	G	C4-N9-C1'	-6.85	117.60	126.50
25	BB	2833	U	N1-C2-N3	6.85	119.01	114.90
37	BN	102	TYR	CG-CD1-CE1	-6.85	115.82	121.30
55	B6	124	VAL	CA-CB-CG2	6.85	121.17	110.90
3	A1	452	A	O4'-C4'-C3'	-6.85	97.15	104.00
24	BA	46	A	N1-C2-N3	-6.85	125.88	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1262	A	N3-C4-N9	-6.85	121.92	127.40
25	BB	1666	G	N3-C2-N2	-6.85	115.11	119.90
3	A1	29	U	C6-N1-C2	6.84	125.11	121.00
3	A1	279	A	C8-N9-C4	-6.84	103.06	105.80
3	A1	694	A	N7-C8-N9	6.84	117.22	113.80
3	A1	971	G	C5-C6-N1	6.84	114.92	111.50
3	A1	1043	G	C6-C5-N7	6.84	134.51	130.40
3	A1	1498	U	C5-C4-O4	6.84	130.01	125.90
24	BA	73	A	C5-C6-N6	6.84	129.18	123.70
25	BB	2202	U	C5-C6-N1	-6.84	119.28	122.70
25	BB	2268	A	O4'-C1'-N9	6.84	113.68	108.20
25	BB	2822	G	N3-C4-C5	-6.84	125.18	128.60
25	BB	2892	G	N9-C4-C5	6.84	108.14	105.40
1	AA	38	A	N9-C4-C5	6.84	108.54	105.80
1	AP	29	A	C5-C6-N6	6.84	129.17	123.70
3	A1	1264	U	C4'-C3'-C2'	-6.84	95.76	102.60
4	AB	198	VAL	CB-CA-C	-6.84	98.40	111.40
25	BB	96	C	C5-C4-N4	-6.84	115.41	120.20
25	BB	328	U	N3-C4-C5	-6.84	110.49	114.60
25	BB	505	A	N7-C8-N9	6.84	117.22	113.80
25	BB	1605	C	C5'-C4'-C3'	-6.84	105.05	116.00
25	BB	1952	A	C5-C6-N6	6.84	129.18	123.70
25	BB	1985	C	C4-C5-C6	6.84	120.82	117.40
25	BB	2057	G	N1-C2-N2	6.84	122.36	116.20
25	BB	2084	C	O4'-C4'-C3'	6.84	111.57	106.10
25	BB	2787	C	C5-C6-N1	-6.84	117.58	121.00
3	A1	13	U	O4'-C1'-N1	6.84	113.67	108.20
25	BB	54	G	O4'-C1'-N9	6.84	113.67	108.20
25	BB	238	C	C2-N3-C4	-6.84	116.48	119.90
25	BB	268	C	C3'-C2'-C1'	6.84	106.97	101.50
25	BB	297	G	C8-N9-C4	-6.84	103.66	106.40
25	BB	344	A	C6-N1-C2	-6.84	114.50	118.60
25	BB	720	U	N1-C2-O2	-6.84	118.01	122.80
25	BB	785	G	C5-C6-O6	6.84	132.71	128.60
25	BB	1167	C	C5-C6-N1	6.84	124.42	121.00
25	BB	1285	A	P-O3'-C3'	6.84	127.91	119.70
25	BB	1616	A	N9-C4-C5	-6.84	103.06	105.80
1	AP	47	U	N1-C2-O2	6.84	127.59	122.80
3	A1	75	G	N3-C2-N2	-6.84	115.11	119.90
3	A1	1079	G	C6-C5-N7	6.84	134.50	130.40
24	BA	100	G	N3-C4-N9	6.84	130.10	126.00
25	BB	362	A	C4'-C3'-C2'	-6.84	95.76	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1152	C	N1-C1'-C2'	-6.84	104.48	112.00
25	BB	1400	U	C4-C5-C6	6.84	123.80	119.70
25	BB	1898	U	C4'-C3'-C2'	-6.84	95.76	102.60
25	BB	1958	C	N3-C4-C5	-6.84	119.16	121.90
3	A1	707	U	C5-C6-N1	-6.84	119.28	122.70
3	A1	723	U	O4'-C4'-C3'	6.84	111.57	106.10
3	A1	1381	U	N3-C2-O2	-6.84	117.41	122.20
25	BB	234	U	N3-C4-O4	6.84	124.19	119.40
25	BB	1407	G	C8-N9-C1'	6.84	135.89	127.00
25	BB	1723	G	N1-C2-N2	-6.84	110.05	116.20
25	BB	2753	A	C4-C5-C6	-6.84	113.58	117.00
1	AE	27	C	N3-C4-N4	-6.84	113.22	118.00
3	A1	166	U	C3'-C2'-C1'	-6.84	96.03	101.50
3	A1	228	A	C5-N7-C8	-6.84	100.48	103.90
25	BB	164	C	N1-C2-N3	6.84	123.99	119.20
25	BB	342	A	N1-C6-N6	-6.84	114.50	118.60
25	BB	397	U	C3'-C2'-C1'	-6.84	96.03	101.50
25	BB	762	U	C4-C5-C6	6.84	123.80	119.70
25	BB	2191	A	O4'-C1'-N9	6.84	113.67	108.20
25	BB	2710	C	N3-C4-N4	-6.84	113.21	118.00
25	BB	2802	G	N3-C4-N9	6.84	130.10	126.00
26	BC	18	ARG	CD-NE-CZ	6.84	133.17	123.60
3	A1	1306	A	C2-N3-C4	6.83	114.02	110.60
25	BB	311	A	C6-C5-N7	6.83	137.09	132.30
25	BB	350	G	C4-C5-C6	-6.83	114.70	118.80
25	BB	916	G	N1-C6-O6	-6.83	115.80	119.90
25	BB	1613	G	C2-N3-C4	6.83	115.32	111.90
1	AP	20	G	C4-C5-C6	-6.83	114.70	118.80
1	AP	28	C	P-O3'-C3'	6.83	127.90	119.70
3	A1	1089	G	C8-N9-C4	-6.83	103.67	106.40
3	A1	1110	A	C6-N1-C2	6.83	122.70	118.60
3	A1	1148	U	C3'-C2'-C1'	6.83	106.97	101.50
3	A1	1268	G	C5-C6-O6	-6.83	124.50	128.60
9	AH	57	ARG	NH1-CZ-NH2	-6.83	111.88	119.40
24	BA	96	G	O4'-C1'-N9	6.83	113.67	108.20
25	BB	725	G	N7-C8-N9	6.83	116.52	113.10
25	BB	1018	U	C6-N1-C2	-6.83	116.90	121.00
25	BB	2747	G	C5-C6-O6	-6.83	124.50	128.60
3	A1	210	C	N1-C2-N3	6.83	123.98	119.20
3	A1	346	G	C4'-C3'-C2'	-6.83	95.77	102.60
25	BB	188	G	C4-C5-C6	-6.83	114.70	118.80
25	BB	221	A	C8-N9-C4	-6.83	103.07	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	693	A	N1-C2-N3	6.83	132.72	129.30
25	BB	1278	C	O3'-P-O5'	6.83	116.98	104.00
25	BB	1508	A	N7-C8-N9	6.83	117.22	113.80
25	BB	1570	A	C4-C5-C6	-6.83	113.58	117.00
25	BB	1589	U	C3'-C2'-C1'	-6.83	96.03	101.50
25	BB	1654	A	P-O3'-C3'	6.83	127.90	119.70
25	BB	2553	G	C3'-C2'-C1'	6.83	106.97	101.50
3	A1	799	G	N3-C4-N9	-6.83	121.90	126.00
3	A1	802	A	C1'-O4'-C4'	-6.83	104.44	109.90
25	BB	837	C	C5-C6-N1	-6.83	117.58	121.00
25	BB	1142	A	C5-C6-N6	-6.83	118.24	123.70
25	BB	1537	G	N3-C4-N9	6.83	130.10	126.00
25	BB	1815	A	C1'-O4'-C4'	6.83	115.36	109.90
25	BB	1968	G	O3'-P-O5'	-6.83	91.02	104.00
25	BB	2073	C	N3-C2-O2	-6.83	117.12	121.90
1	AP	40	C	C2-N3-C4	-6.83	116.49	119.90
3	A1	194	C	C5'-C4'-O4'	6.83	117.29	109.10
3	A1	304	U	N1-C2-N3	6.83	119.00	114.90
3	A1	724	G	O4'-C1'-N9	6.83	113.66	108.20
3	A1	878	A	C2-N3-C4	6.83	114.02	110.60
3	A1	1161	C	C6-N1-C2	6.83	123.03	120.30
25	BB	438	G	O4'-C1'-N9	6.83	113.66	108.20
25	BB	823	C	C5'-C4'-O4'	6.83	117.29	109.10
25	BB	1110	G	N1-C6-O6	-6.83	115.80	119.90
25	BB	1400	U	C2-N3-C4	-6.83	122.90	127.00
25	BB	1565	C	O4'-C1'-N1	6.83	113.66	108.20
25	BB	2079	U	N3-C2-O2	-6.83	117.42	122.20
25	BB	2202	U	C5-C4-O4	-6.83	121.80	125.90
3	A1	1381	U	O4'-C1'-N1	6.83	113.66	108.20
3	A1	1401	G	N1-C2-N3	-6.83	119.80	123.90
25	BB	1040	A	N1-C6-N6	-6.83	114.50	118.60
25	BB	1146	C	C3'-C2'-C1'	6.83	106.96	101.50
25	BB	1498	C	N1-C2-O2	6.83	123.00	118.90
1	AP	45	G	N1-C6-O6	-6.83	115.80	119.90
2	AM	8	U	C4'-C3'-C2'	-6.83	95.78	102.60
3	A1	59	A	C5-C6-N6	6.83	129.16	123.70
3	A1	182	A	O4'-C1'-N9	6.83	113.66	108.20
3	A1	218	U	N1-C2-O2	6.83	127.58	122.80
3	A1	785	G	C5-C6-N1	6.83	114.91	111.50
4	AB	94	ARG	NE-CZ-NH2	6.83	123.71	120.30
25	BB	79	C	C3'-C2'-C1'	6.83	106.96	101.50
25	BB	719	C	C2-N3-C4	-6.83	116.49	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	941	A	C4-C5-N7	6.83	114.11	110.70
25	BB	1389	G	C8-N9-C4	6.83	109.13	106.40
25	BB	1460	U	C5'-C4'-O4'	6.83	117.29	109.10
25	BB	1684	G	N3-C4-C5	-6.83	125.19	128.60
25	BB	1691	C	C5-C4-N4	-6.83	115.42	120.20
25	BB	2527	C	N3-C4-C5	6.83	124.63	121.90
25	BB	2567	G	C4-C5-C6	-6.83	114.70	118.80
25	BB	2791	G	C4-C5-N7	6.83	113.53	110.80
3	A1	211	G	N1-C6-O6	-6.82	115.81	119.90
3	A1	384	G	N3-C4-C5	-6.82	125.19	128.60
3	A1	433	G	C1'-O4'-C4'	-6.82	104.44	109.90
3	A1	780	A	C5-C6-N1	6.82	121.11	117.70
3	A1	884	U	N1-C2-N3	6.82	119.00	114.90
3	A1	1462	C	C5-C4-N4	6.82	124.98	120.20
17	AR	173	ASP	CB-CG-OD1	6.82	124.44	118.30
25	BB	325	G	O4'-C1'-N9	6.82	113.66	108.20
25	BB	360	U	C2-N3-C4	-6.82	122.91	127.00
25	BB	643	A	C5'-C4'-C3'	-6.82	105.08	116.00
25	BB	965	C	C5'-C4'-C3'	-6.82	105.08	116.00
25	BB	1002	G	N3-C4-N9	6.82	130.09	126.00
25	BB	1234	U	C6-N1-C2	-6.82	116.91	121.00
25	BB	1419	A	N1-C2-N3	6.82	132.71	129.30
25	BB	1756	G	C5'-C4'-C3'	-6.82	105.08	116.00
25	BB	1875	G	C5-N7-C8	-6.82	100.89	104.30
25	BB	2218	G	N7-C8-N9	-6.82	109.69	113.10
3	A1	665	A	C3'-C2'-C1'	6.82	106.96	101.50
25	BB	1060	U	C3'-C2'-C1'	-6.82	96.04	101.50
25	BB	2475	C	C5-C6-N1	-6.82	117.59	121.00
25	BB	2749	A	O4'-C4'-C3'	6.82	111.56	106.10
1	AA	67	A	N3-C4-N9	-6.82	121.94	127.40
1	AP	35	A	C6-N1-C2	-6.82	114.51	118.60
3	A1	69	G	C6-C5-N7	6.82	134.49	130.40
3	A1	1317	C	N3-C4-C5	6.82	124.63	121.90
25	BB	132	G	N9-C4-C5	6.82	108.13	105.40
25	BB	143	C	N3-C2-O2	-6.82	117.13	121.90
25	BB	244	A	C8-N9-C4	6.82	108.53	105.80
25	BB	450	G	N1-C2-N3	6.82	127.99	123.90
25	BB	789	A	C5-C6-N6	6.82	129.16	123.70
25	BB	847	U	C4-C5-C6	6.82	123.79	119.70
25	BB	1285	A	N7-C8-N9	6.82	117.21	113.80
25	BB	1576	U	N3-C2-O2	-6.82	117.42	122.20
25	BB	1674	G	C2-N3-C4	6.82	115.31	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2369	A	N1-C2-N3	6.82	132.71	129.30
1	AA	13	C	C5'-C4'-O4'	6.82	117.28	109.10
3	A1	976	G	P-O3'-C3'	6.82	127.88	119.70
3	A1	1507	A	N9-C1'-C2'	6.82	122.86	114.00
25	BB	664	G	C6-C5-N7	6.82	134.49	130.40
25	BB	1326	U	N1-C2-O2	6.82	127.57	122.80
1	AA	70	C	C6-N1-C2	6.82	123.03	120.30
2	AM	7	U	C1'-O4'-C4'	-6.82	104.45	109.90
3	A1	518	C	C5-C6-N1	-6.82	117.59	121.00
3	A1	1154	G	C5'-C4'-O4'	6.82	117.28	109.10
3	A1	1433	A	N1-C2-N3	-6.82	125.89	129.30
3	A1	1524	C	C2-N3-C4	-6.82	116.49	119.90
12	AK	50	TYR	CG-CD1-CE1	-6.82	115.85	121.30
25	BB	266	G	N1-C2-N3	6.82	127.99	123.90
25	BB	1051	G	C3'-C2'-C1'	-6.82	96.05	101.50
25	BB	1832	C	C6-N1-C2	6.82	123.03	120.30
25	BB	2267	A	C2-N3-C4	6.82	114.01	110.60
25	BB	2597	G	O4'-C1'-N9	6.82	113.65	108.20
25	BB	2671	G	C5-C6-N1	6.82	114.91	111.50
1	AE	13	C	N3-C2-O2	-6.82	117.13	121.90
3	A1	28	A	C1'-O4'-C4'	-6.82	104.45	109.90
3	A1	68	G	N3-C2-N2	-6.82	115.13	119.90
3	A1	220	G	N9-C4-C5	6.82	108.13	105.40
3	A1	299	G	N3-C4-N9	-6.82	121.91	126.00
3	A1	867	G	C8-N9-C4	-6.82	103.67	106.40
3	A1	898	G	C4'-C3'-C2'	-6.82	95.78	102.60
3	A1	973	G	C4-C5-N7	6.82	113.53	110.80
3	A1	1396	A	C1'-O4'-C4'	-6.82	104.45	109.90
3	A1	1445	U	N3-C2-O2	-6.82	117.43	122.20
3	A1	1474	U	C2-N3-C4	-6.82	122.91	127.00
24	BA	43	C	C6-N1-C2	-6.82	117.57	120.30
24	BA	111	U	N3-C2-O2	-6.82	117.43	122.20
25	BB	129	C	N1-C2-O2	6.82	122.99	118.90
25	BB	609	A	C4-C5-C6	-6.82	113.59	117.00
25	BB	648	G	C5-N7-C8	-6.82	100.89	104.30
25	BB	742	A	C5-C6-N1	6.82	121.11	117.70
25	BB	1274	A	C5'-C4'-O4'	6.82	117.28	109.10
25	BB	1421	G	C4-C5-N7	-6.82	108.07	110.80
25	BB	1477	A	P-O3'-C3'	6.82	127.88	119.70
25	BB	1589	U	C2-N3-C4	-6.82	122.91	127.00
25	BB	1732	C	N3-C4-C5	6.82	124.63	121.90
25	BB	1953	A	C5-C6-N6	6.82	129.15	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	5	A	C5-C6-N1	6.81	121.11	117.70
3	A1	690	G	C4-C5-N7	-6.81	108.07	110.80
3	A1	1067	A	C1'-O4'-C4'	6.81	115.35	109.90
25	BB	130	C	C3'-C2'-C1'	6.81	106.95	101.50
25	BB	1101	U	N3-C4-C5	-6.81	110.51	114.60
25	BB	1359	A	C3'-C2'-C1'	6.81	106.95	101.50
25	BB	2144	G	N1-C6-O6	-6.81	115.81	119.90
3	A1	734	G	N3-C4-C5	-6.81	125.19	128.60
3	A1	1275	A	N9-C1'-C2'	-6.81	104.51	112.00
24	BA	80	U	N3-C2-O2	-6.81	117.43	122.20
25	BB	178	G	C4'-C3'-C2'	-6.81	95.79	102.60
25	BB	489	G	C3'-C2'-C1'	6.81	106.95	101.50
25	BB	501	A	C6-C5-N7	6.81	137.07	132.30
25	BB	544	C	N1-C1'-C2'	-6.81	104.51	112.00
25	BB	1793	C	C4-C5-C6	6.81	120.81	117.40
25	BB	1807	G	C2-N3-C4	6.81	115.31	111.90
25	BB	2482	A	N7-C8-N9	6.81	117.21	113.80
25	BB	2493	U	C6-N1-C2	-6.81	116.91	121.00
25	BB	132	G	C2-N3-C4	6.81	115.31	111.90
25	BB	907	G	C5'-C4'-C3'	-6.81	105.10	116.00
25	BB	1418	G	C5-N7-C8	-6.81	100.89	104.30
25	BB	1861	G	N1-C2-N3	6.81	127.99	123.90
3	A1	457	G	C6-C5-N7	6.81	134.49	130.40
3	A1	954	G	C6-N1-C2	-6.81	121.02	125.10
3	A1	1069	C	N1-C2-O2	6.81	122.98	118.90
3	A1	1126	U	C2-N3-C4	-6.81	122.91	127.00
3	A1	1313	U	C5-C6-N1	-6.81	119.30	122.70
25	BB	193	U	O4'-C1'-C2'	6.81	113.73	107.60
25	BB	956	G	N1-C2-N3	6.81	127.98	123.90
25	BB	1023	U	O5'-C5'-C4'	6.81	124.64	111.70
25	BB	1165	A	C6-N1-C2	6.81	122.69	118.60
25	BB	1443	U	N3-C4-C5	-6.81	110.51	114.60
25	BB	1665	A	C6-C5-N7	6.81	137.07	132.30
25	BB	1930	G	C5-N7-C8	-6.81	100.90	104.30
25	BB	1964	G	C5-C6-N1	6.81	114.91	111.50
25	BB	1987	A	C5'-C4'-C3'	-6.81	105.10	116.00
25	BB	2090	A	C8-N9-C4	-6.81	103.08	105.80
25	BB	2246	G	N3-C4-C5	-6.81	125.19	128.60
25	BB	2444	G	C4'-C3'-C2'	-6.81	95.79	102.60
25	BB	2624	G	C5-N7-C8	-6.81	100.89	104.30
34	BK	2	TYR	CB-CG-CD1	-6.81	116.91	121.00
1	AP	19	G	C6-N1-C2	-6.81	121.02	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AP	67	A	N1-C6-N6	-6.81	114.52	118.60
1	AE	20	G	C5-C6-N1	6.81	114.90	111.50
3	A1	13	U	N1-C1'-C2'	6.81	122.85	114.00
3	A1	613	C	N3-C2-O2	-6.81	117.14	121.90
3	A1	647	C	C6-N1-C2	6.81	123.02	120.30
24	BA	8	C	C1'-O4'-C4'	-6.81	104.45	109.90
25	BB	238	C	N1-C2-O2	6.81	122.98	118.90
25	BB	684	G	N1-C2-N3	6.81	127.98	123.90
25	BB	833	A	C4-C5-C6	-6.81	113.60	117.00
25	BB	1412	U	N3-C4-O4	6.81	124.17	119.40
25	BB	1693	U	C5-C6-N1	-6.81	119.30	122.70
25	BB	1801	A	C5-C6-N1	6.81	121.10	117.70
25	BB	1924	C	N3-C4-C5	6.81	124.62	121.90
25	BB	2051	A	C6-C5-N7	6.81	137.06	132.30
25	BB	2536	G	C8-N9-C1'	6.81	135.85	127.00
1	AA	32	C	N3-C4-N4	-6.81	113.24	118.00
24	BA	21	G	C6-N1-C2	-6.81	121.02	125.10
25	BB	317	G	N3-C4-C5	-6.81	125.20	128.60
3	A1	151	A	N1-C2-N3	-6.80	125.90	129.30
3	A1	332	G	N1-C6-O6	-6.80	115.82	119.90
3	A1	505	G	N3-C4-C5	6.80	132.00	128.60
3	A1	568	G	N3-C4-C5	-6.80	125.20	128.60
3	A1	736	C	N3-C4-N4	-6.80	113.24	118.00
3	A1	941	G	O4'-C4'-C3'	6.80	111.54	106.10
3	A1	1526	G	N3-C2-N2	-6.80	115.14	119.90
25	BB	886	A	C6-C5-N7	6.80	137.06	132.30
25	BB	1944	U	C5'-C4'-C3'	6.80	126.89	116.00
25	BB	2149	U	O5'-C5'-C4'	6.80	124.63	111.70
3	A1	104	G	C3'-C2'-C1'	-6.80	96.06	101.50
3	A1	542	G	O4'-C4'-C3'	-6.80	97.20	104.00
3	A1	1216	A	N1-C6-N6	-6.80	114.52	118.60
3	A1	1241	G	N1-C6-O6	-6.80	115.82	119.90
25	BB	117	G	C4-C5-C6	-6.80	114.72	118.80
2	AM	16	U	C4-C5-C6	6.80	123.78	119.70
3	A1	112	G	C6-N1-C2	-6.80	121.02	125.10
3	A1	846	G	N1-C6-O6	-6.80	115.82	119.90
3	A1	1047	G	O4'-C1'-N9	-6.80	102.76	108.20
3	A1	1206	G	C5'-C4'-C3'	-6.80	105.12	116.00
10	AI	21	VAL	CA-CB-CG2	-6.80	100.70	110.90
23	AX	42	LEU	CB-CG-CD1	6.80	122.56	111.00
25	BB	806	C	C5-C4-N4	6.80	124.96	120.20
25	BB	855	G	C6-N1-C2	-6.80	121.02	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1502	A	O4'-C1'-N9	6.80	113.64	108.20
25	BB	1790	C	C1'-O4'-C4'	-6.80	104.46	109.90
25	BB	2339	C	P-O3'-C3'	6.80	127.86	119.70
25	BB	2500	U	N1-C2-O2	6.80	127.56	122.80
25	BB	2558	C	C3'-C2'-C1'	6.80	106.94	101.50
25	BB	2845	U	C6-N1-C2	6.80	125.08	121.00
51	B2	109	ARG	NH1-CZ-NH2	-6.80	111.92	119.40
1	AE	46	G	C2-N3-C4	-6.80	108.50	111.90
3	A1	154	U	N3-C4-O4	6.80	124.16	119.40
3	A1	176	C	O4'-C1'-N1	6.80	113.64	108.20
3	A1	410	G	C2-N3-C4	6.80	115.30	111.90
3	A1	760	G	N1-C6-O6	-6.80	115.82	119.90
12	AK	64	LEU	CB-CG-CD1	6.80	122.56	111.00
25	BB	681	G	N3-C4-C5	-6.80	125.20	128.60
25	BB	718	A	C5-N7-C8	-6.80	100.50	103.90
25	BB	765	C	N1-C2-N3	6.80	123.96	119.20
25	BB	1073	A	N1-C2-N3	-6.80	125.90	129.30
25	BB	1147	A	C5-C6-N1	6.80	121.10	117.70
25	BB	1691	C	C6-N1-C2	6.80	123.02	120.30
25	BB	1858	A	C5-N7-C8	-6.80	100.50	103.90
25	BB	2061	G	C1'-O4'-C4'	-6.80	104.46	109.90
25	BB	2471	A	C2-N3-C4	6.80	114.00	110.60
3	A1	326	G	N1-C6-O6	-6.80	115.82	119.90
3	A1	933	G	O3'-P-O5'	6.80	116.92	104.00
3	A1	1241	G	N3-C4-N9	6.80	130.08	126.00
17	AR	96	ARG	NH1-CZ-NH2	-6.80	111.92	119.40
25	BB	22	C	O4'-C1'-C2'	-6.80	99.00	105.80
25	BB	860	U	C2-N3-C4	-6.80	122.92	127.00
25	BB	1214	A	C5-C6-N1	6.80	121.10	117.70
25	BB	1309	G	C4-C5-N7	6.80	113.52	110.80
25	BB	2061	G	C5-C6-O6	-6.80	124.52	128.60
25	BB	2518	A	C8-N9-C4	6.80	108.52	105.80
25	BB	2529	G	C2-N3-C4	6.80	115.30	111.90
25	BB	2622	U	N1-C1'-C2'	-6.80	104.52	112.00
1	AP	60	C	P-O3'-C3'	-6.80	111.55	119.70
1	AE	30	G	N7-C8-N9	6.80	116.50	113.10
3	A1	109	A	O4'-C1'-C2'	-6.80	99.00	105.80
3	A1	410	G	N3-C4-N9	6.80	130.08	126.00
3	A1	434	U	C5-C6-N1	-6.80	119.30	122.70
3	A1	448	A	N3-C4-N9	-6.80	121.96	127.40
3	A1	569	C	N1-C2-O2	6.80	122.98	118.90
3	A1	1004	A	C8-N9-C4	-6.80	103.08	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1322	C	O4'-C4'-C3'	6.80	111.54	106.10
24	BA	47	C	N1-C2-O2	6.80	122.98	118.90
25	BB	834	G	C5-N7-C8	-6.80	100.90	104.30
25	BB	953	G	C4-C5-C6	-6.80	114.72	118.80
25	BB	1059	G	C5-N7-C8	-6.80	100.90	104.30
25	BB	1301	A	C5-C6-N1	6.80	121.10	117.70
25	BB	2579	C	N1-C1'-C2'	6.80	122.83	114.00
25	BB	2649	C	C5-C6-N1	-6.80	117.60	121.00
25	BB	2809	A	C4-C5-C6	-6.80	113.60	117.00
25	BB	2823	A	C5-C6-N1	6.80	121.10	117.70
40	BQ	23	ARG	NE-CZ-NH1	6.80	123.70	120.30
1	AP	22	G	O4'-C4'-C3'	6.79	111.54	106.10
3	A1	864	A	C2'-C3'-O3'	6.79	124.57	113.70
25	BB	233	A	C5'-C4'-O4'	6.79	117.25	109.10
25	BB	615	U	O4'-C4'-C3'	6.79	111.54	106.10
25	BB	2837	A	C5-C6-N1	6.79	121.10	117.70
3	A1	45	G	C8-N9-C1'	6.79	135.83	127.00
3	A1	126	G	C6-N1-C2	-6.79	121.02	125.10
3	A1	139	A	C8-N9-C4	-6.79	103.08	105.80
3	A1	656	G	C1'-O4'-C4'	6.79	115.34	109.90
3	A1	706	A	C6-N1-C2	-6.79	114.52	118.60
15	AO	17	TRP	CA-CB-CG	6.79	126.61	113.70
24	BA	60	C	C2'-C3'-O3'	6.79	124.57	113.70
24	BA	78	A	O4'-C1'-N9	6.79	113.63	108.20
25	BB	319	G	N1-C2-N3	6.79	127.98	123.90
25	BB	1475	G	C6-N1-C2	-6.79	121.02	125.10
25	BB	2117	A	O4'-C1'-C2'	6.79	113.71	107.60
25	BB	2871	U	P-O3'-C3'	6.79	127.85	119.70
53	B4	51	ARG	NE-CZ-NH1	6.79	123.70	120.30
1	AP	40	C	C4-C5-C6	-6.79	114.00	117.40
3	A1	73	C	C4'-C3'-C2'	-6.79	95.81	102.60
3	A1	1094	G	C1'-O4'-C4'	-6.79	104.47	109.90
3	A1	1384	C	C1'-O4'-C4'	-6.79	104.47	109.90
3	A1	1398	A	C6-C5-N7	6.79	137.05	132.30
9	AH	14	PHE	CB-CG-CD1	-6.79	116.05	120.80
25	BB	29	U	N1-C2-O2	6.79	127.55	122.80
25	BB	347	A	C4-C5-C6	-6.79	113.60	117.00
25	BB	452	G	C6-N1-C2	-6.79	121.03	125.10
25	BB	520	G	N7-C8-N9	-6.79	109.70	113.10
25	BB	815	C	N3-C4-C5	6.79	124.62	121.90
25	BB	1147	A	C4-C5-N7	-6.79	107.30	110.70
25	BB	1693	U	C5-C4-O4	-6.79	121.83	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1808	A	C5-C6-N6	6.79	129.13	123.70
25	BB	2179	C	C5-C6-N1	-6.79	117.61	121.00
25	BB	2190	G	C3'-C2'-C1'	-6.79	96.07	101.50
25	BB	2315	G	O4'-C4'-C3'	6.79	111.53	106.10
25	BB	2528	U	N1-C2-N3	6.79	118.97	114.90
37	BN	47	ARG	CD-NE-CZ	6.79	133.11	123.60
1	AE	29	A	C8-N9-C4	6.79	108.52	105.80
3	A1	136	C	C2-N3-C4	-6.79	116.50	119.90
3	A1	983	A	C2-N3-C4	-6.79	107.20	110.60
25	BB	610	C	N3-C4-N4	-6.79	113.25	118.00
25	BB	622	G	C4-C5-N7	-6.79	108.08	110.80
25	BB	1807	G	N1-C2-N2	-6.79	110.09	116.20
25	BB	2604	U	C3'-C2'-C1'	-6.79	96.07	101.50
3	A1	72	A	N1-C6-N6	-6.79	114.53	118.60
3	A1	204	G	C5-C6-N1	6.79	114.89	111.50
3	A1	266	G	C5-C6-O6	-6.79	124.53	128.60
3	A1	1045	C	N3-C2-O2	-6.79	117.15	121.90
3	A1	1132	C	O4'-C4'-C3'	6.79	111.53	106.10
25	BB	36	G	N3-C2-N2	-6.79	115.15	119.90
25	BB	491	G	C6-N1-C2	-6.79	121.03	125.10
25	BB	579	G	C4'-C3'-C2'	-6.79	95.81	102.60
25	BB	2355	G	N3-C4-C5	-6.79	125.21	128.60
25	BB	2865	U	N1-C1'-C2'	-6.79	104.53	112.00
1	AE	59	U	P-O3'-C3'	6.79	127.84	119.70
3	A1	47	C	N1-C2-O2	6.79	122.97	118.90
25	BB	722	A	C1'-O4'-C4'	6.79	115.33	109.90
1	AA	22	G	O4'-C4'-C3'	-6.79	97.21	104.00
3	A1	30	U	C4-C5-C6	6.79	123.77	119.70
3	A1	183	C	N3-C4-N4	-6.79	113.25	118.00
3	A1	698	G	C6-N1-C2	-6.79	121.03	125.10
25	BB	281	C	C5-C4-N4	6.79	124.95	120.20
25	BB	330	A	N1-C2-N3	-6.79	125.91	129.30
25	BB	1142	A	C6-N1-C2	-6.79	114.53	118.60
25	BB	1674	G	N3-C4-N9	6.79	130.07	126.00
25	BB	1711	A	O4'-C1'-N9	6.79	113.63	108.20
25	BB	2067	G	C8-N9-C4	-6.79	103.69	106.40
25	BB	2198	A	C8-N9-C4	-6.79	103.09	105.80
25	BB	2284	A	C4'-C3'-C2'	-6.79	95.81	102.60
25	BB	2379	G	C1'-O4'-C4'	-6.79	104.47	109.90
48	BY	90	PHE	CB-CG-CD2	-6.79	116.05	120.80
3	A1	347	G	O4'-C4'-C3'	6.78	111.53	106.10
3	A1	412	A	N3-C4-N9	-6.78	121.97	127.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1407	C	C6-N1-C2	-6.78	117.59	120.30
25	BB	85	G	N1-C2-N3	-6.78	119.83	123.90
25	BB	112	U	C5'-C4'-C3'	-6.78	105.14	116.00
25	BB	220	G	C5-C6-N1	6.78	114.89	111.50
25	BB	1250	G	N3-C4-C5	-6.78	125.21	128.60
25	BB	1520	U	N3-C4-C5	6.78	118.67	114.60
25	BB	1829	A	C5-C6-N6	6.78	129.13	123.70
25	BB	1860	G	N3-C4-N9	6.78	130.07	126.00
25	BB	2487	G	C4-C5-C6	-6.78	114.73	118.80
31	BH	97	PHE	CB-CG-CD1	6.78	125.55	120.80
3	A1	452	A	O4'-C1'-C2'	6.78	113.70	107.60
3	A1	890	G	N3-C4-C5	-6.78	125.21	128.60
25	BB	313	G	N3-C4-N9	6.78	130.07	126.00
25	BB	1258	U	O5'-P-OP2	-6.78	99.60	105.70
25	BB	1616	A	C4-C5-N7	6.78	114.09	110.70
25	BB	1855	U	O4'-C4'-C3'	6.78	111.53	106.10
3	A1	130	A	C3'-C2'-C1'	6.78	106.92	101.50
3	A1	435	A	C5-C6-N1	6.78	121.09	117.70
3	A1	630	A	N9-C4-C5	6.78	108.51	105.80
3	A1	705	G	C5-N7-C8	6.78	107.69	104.30
3	A1	716	A	C2-N3-C4	6.78	113.99	110.60
3	A1	760	G	C4-C5-C6	-6.78	114.73	118.80
3	A1	890	G	N3-C2-N2	6.78	124.65	119.90
25	BB	1046	A	C4-C5-C6	-6.78	113.61	117.00
25	BB	1596	A	C5-C6-N1	6.78	121.09	117.70
25	BB	1749	A	C4-C5-C6	-6.78	113.61	117.00
25	BB	2104	C	N1-C2-N3	6.78	123.95	119.20
25	BB	2496	C	C6-N1-C2	-6.78	117.59	120.30
25	BB	2531	A	N9-C4-C5	-6.78	103.09	105.80
25	BB	2632	A	C6-C5-N7	6.78	137.05	132.30
1	AA	58	A	C5-C6-N6	6.78	129.12	123.70
25	BB	2178	C	O4'-C4'-C3'	6.78	111.52	106.10
25	BB	2545	G	N3-C2-N2	-6.78	115.16	119.90
1	AP	61	C	N3-C4-N4	-6.78	113.26	118.00
2	AM	13	U	O3'-P-O5'	-6.78	91.12	104.00
3	A1	69	G	N3-C4-N9	-6.78	121.93	126.00
3	A1	224	U	O4'-C1'-N1	6.78	113.62	108.20
3	A1	442	G	N1-C6-O6	-6.78	115.83	119.90
3	A1	544	G	C5-N7-C8	-6.78	100.91	104.30
3	A1	1032	G	C6-N1-C2	-6.78	121.03	125.10
3	A1	1320	C	N3-C4-C5	6.78	124.61	121.90
21	AV	70	VAL	CG1-CB-CG2	-6.78	100.06	110.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1798	U	O4'-C1'-N1	6.78	113.62	108.20
25	BB	1971	U	N3-C4-C5	6.78	118.67	114.60
25	BB	2669	G	C6-C5-N7	6.78	134.47	130.40
25	BB	2775	G	C2-N3-C4	-6.78	108.51	111.90
25	BB	2842	G	N3-C2-N2	-6.78	115.16	119.90
3	A1	447	G	C5-N7-C8	-6.78	100.91	104.30
3	A1	755	G	C3'-C2'-C1'	-6.78	96.08	101.50
3	A1	962	C	N3-C2-O2	-6.78	117.16	121.90
3	A1	1338	G	C5-C6-O6	6.78	132.66	128.60
25	BB	248	G	O5'-P-OP2	-6.78	99.60	105.70
25	BB	587	C	P-O3'-C3'	6.78	127.83	119.70
25	BB	638	G	N9-C4-C5	6.78	108.11	105.40
25	BB	855	G	C8-N9-C4	6.78	109.11	106.40
25	BB	1786	A	N1-C2-N3	-6.78	125.91	129.30
25	BB	1806	C	O4'-C1'-N1	6.78	113.62	108.20
25	BB	1836	C	N1-C2-O2	6.78	122.97	118.90
25	BB	2210	U	N1-C1'-C2'	6.78	122.81	114.00
25	BB	2210	U	N1-C2-N3	6.78	118.97	114.90
25	BB	2522	U	C5-C4-O4	-6.78	121.83	125.90
1	AE	14	A	N9-C4-C5	-6.77	103.09	105.80
3	A1	847	G	N3-C4-C5	-6.77	125.21	128.60
3	A1	939	G	C5-C6-O6	6.77	132.66	128.60
25	BB	836	G	C4-C5-C6	-6.77	114.73	118.80
25	BB	2203	U	O4'-C1'-C2'	6.77	113.70	107.60
25	BB	2886	A	C3'-C2'-C1'	-6.77	96.08	101.50
3	A1	294	U	N1-C1'-C2'	-6.77	104.55	112.00
3	A1	702	A	C5-C6-N1	6.77	121.09	117.70
3	A1	850	U	C3'-C2'-C1'	6.77	106.92	101.50
3	A1	1100	C	C5-C6-N1	-6.77	117.61	121.00
3	A1	1155	A	C4-C5-N7	-6.77	107.31	110.70
3	A1	1400	C	C4-C5-C6	6.77	120.79	117.40
25	BB	132	G	C6-C5-N7	6.77	134.46	130.40
25	BB	651	G	C5-C6-O6	6.77	132.66	128.60
25	BB	909	A	C6-C5-N7	6.77	137.04	132.30
25	BB	1739	A	C8-N9-C4	6.77	108.51	105.80
25	BB	1752	C	N3-C2-O2	-6.77	117.16	121.90
25	BB	2333	A	N9-C4-C5	6.77	108.51	105.80
3	A1	701	U	N3-C4-C5	-6.77	110.54	114.60
25	BB	224	U	C5-C6-N1	-6.77	119.31	122.70
25	BB	288	U	O5'-C5'-C4'	-6.77	98.83	111.70
25	BB	471	A	C5-C6-N6	6.77	129.12	123.70
25	BB	958	U	C5-C6-N1	-6.77	119.31	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1026	G	C6-C5-N7	6.77	134.46	130.40
25	BB	1549	A	P-O3'-C3'	6.77	127.83	119.70
25	BB	1840	G	C4-C5-N7	6.77	113.51	110.80
25	BB	2209	G	C4'-C3'-C2'	-6.77	95.83	102.60
3	A1	328	C	C5-C4-N4	6.77	124.94	120.20
3	A1	1082	A	C6-C5-N7	6.77	137.04	132.30
3	A1	1155	A	O4'-C1'-C2'	6.77	113.69	107.60
3	A1	1214	C	N3-C4-C5	-6.77	119.19	121.90
3	A1	1249	C	N3-C2-O2	-6.77	117.16	121.90
17	AR	134	TYR	CB-CG-CD2	-6.77	116.94	121.00
25	BB	72	U	C2-N3-C4	-6.77	122.94	127.00
25	BB	1079	C	C3'-C2'-C1'	-6.77	96.08	101.50
25	BB	1949	G	C5'-C4'-O4'	6.77	117.22	109.10
25	BB	2039	U	N1-C2-O2	6.77	127.54	122.80
25	BB	2098	U	C4-C5-C6	6.77	123.76	119.70
1	AP	69	U	C3'-C2'-C1'	6.77	106.91	101.50
2	AM	19	U	N1-C2-N3	6.77	118.96	114.90
3	A1	374	A	N7-C8-N9	6.77	117.18	113.80
3	A1	645	G	C5-N7-C8	-6.77	100.92	104.30
3	A1	978	A	C5'-C4'-C3'	-6.77	105.17	116.00
3	A1	1185	G	N3-C4-C5	-6.77	125.22	128.60
25	BB	320	A	C1'-O4'-C4'	-6.77	104.49	109.90
25	BB	414	C	N3-C2-O2	-6.77	117.16	121.90
25	BB	631	A	C8-N9-C4	-6.77	103.09	105.80
25	BB	849	A	C4-C5-C6	-6.77	113.62	117.00
25	BB	1002	G	C5-C6-O6	6.77	132.66	128.60
25	BB	1212	G	N7-C8-N9	6.77	116.48	113.10
25	BB	1410	G	P-O3'-C3'	6.77	127.82	119.70
25	BB	1980	G	C8-N9-C4	6.77	109.11	106.40
25	BB	2181	U	O3'-P-O5'	6.77	116.86	104.00
25	BB	2198	A	C6-N1-C2	-6.77	114.54	118.60
25	BB	2336	A	O4'-C1'-N9	6.77	113.61	108.20
25	BB	2444	G	N1-C2-N3	6.77	127.96	123.90
25	BB	2483	C	C2-N3-C4	-6.77	116.52	119.90
35	BL	12	SER	C-N-CA	6.77	138.62	121.70
3	A1	391	G	N3-C2-N2	6.77	124.64	119.90
3	A1	634	C	N3-C2-O2	-6.77	117.16	121.90
3	A1	711	G	N1-C6-O6	-6.77	115.84	119.90
3	A1	721	G	N1-C2-N3	6.77	127.96	123.90
25	BB	887	U	O4'-C1'-N1	6.77	113.61	108.20
25	BB	1300	G	N3-C4-C5	-6.77	125.22	128.60
1	AA	23	A	C5'-C4'-O4'	6.76	117.22	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	458	U	C1'-O4'-C4'	-6.76	104.49	109.90
3	A1	526	C	O4'-C1'-N1	6.76	113.61	108.20
25	BB	381	G	C1'-O4'-C4'	6.76	115.31	109.90
25	BB	751	A	C3'-C2'-C1'	-6.76	96.09	101.50
25	BB	1209	U	N1-C2-N3	6.76	118.96	114.90
25	BB	2061	G	O5'-C5'-C4'	-6.76	98.85	111.70
25	BB	2141	G	C2-N3-C4	-6.76	108.52	111.90
25	BB	2547	A	N1-C2-N3	6.76	132.68	129.30
25	BB	2852	G	N9-C4-C5	6.76	108.11	105.40
3	A1	768	A	C3'-C2'-C1'	6.76	106.91	101.50
24	BA	86	G	C6-N1-C2	-6.76	121.04	125.10
25	BB	883	G	C6-N1-C2	-6.76	121.04	125.10
25	BB	1283	G	O4'-C1'-N9	-6.76	102.79	108.20
25	BB	2393	U	C5-C4-O4	6.76	129.96	125.90
25	BB	2416	C	N3-C2-O2	-6.76	117.17	121.90
25	BB	2599	G	O4'-C1'-N9	-6.76	102.79	108.20
50	B1	49	ARG	NE-CZ-NH1	6.76	123.68	120.30
3	A1	710	G	C1'-O4'-C4'	-6.76	104.49	109.90
3	A1	1283	U	C4-C5-C6	6.76	123.76	119.70
3	A1	1292	G	C5-C6-N1	6.76	114.88	111.50
15	AO	168	ARG	NH1-CZ-NH2	-6.76	111.96	119.40
23	AX	66	GLU	OE1-CD-OE2	-6.76	115.19	123.30
25	BB	360	U	N1-C1'-C2'	-6.76	104.56	112.00
25	BB	591	U	C2-N3-C4	-6.76	122.94	127.00
25	BB	670	A	C5-C6-N1	6.76	121.08	117.70
25	BB	968	C	O4'-C1'-C2'	-6.76	99.04	105.80
25	BB	980	A	C5-C6-N1	6.76	121.08	117.70
25	BB	1073	A	C5-C6-N6	6.76	129.11	123.70
25	BB	1289	C	O4'-C4'-C3'	6.76	111.51	106.10
25	BB	1782	U	C5'-C4'-O4'	6.76	117.21	109.10
25	BB	1993	U	N3-C2-O2	-6.76	117.47	122.20
25	BB	2043	C	C2'-C3'-O3'	6.76	124.52	113.70
25	BB	2672	U	C4'-C3'-C2'	-6.76	95.84	102.60
3	A1	214	C	N1-C2-O2	6.76	122.96	118.90
3	A1	251	G	C6-N1-C2	-6.76	121.04	125.10
3	A1	803	G	C3'-C2'-C1'	6.76	106.91	101.50
3	A1	1131	G	N1-C2-N2	-6.76	110.12	116.20
3	A1	1344	C	N3-C4-C5	6.76	124.60	121.90
17	AR	2	ARG	CD-NE-CZ	6.76	133.06	123.60
25	BB	1207	C	C2-N3-C4	-6.76	116.52	119.90
25	BB	1546	G	N1-C6-O6	-6.76	115.84	119.90
25	BB	1719	G	C1'-O4'-C4'	-6.76	104.49	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1879	C	N3-C4-C5	6.76	124.60	121.90
25	BB	1962	C	C1'-O4'-C4'	6.76	115.31	109.90
25	BB	2127	G	N1-C2-N3	6.76	127.95	123.90
25	BB	2311	A	C3'-C2'-C1'	6.76	106.91	101.50
25	BB	2607	G	C5-N7-C8	-6.76	100.92	104.30
25	BB	2879	A	O4'-C4'-C3'	6.76	111.51	106.10
3	A1	75	G	C5-C6-N1	6.76	114.88	111.50
3	A1	383	A	O4'-C1'-N9	6.76	113.61	108.20
3	A1	893	C	C5-C6-N1	-6.76	117.62	121.00
25	BB	600	G	C1'-O4'-C4'	6.76	115.31	109.90
25	BB	759	G	C5'-C4'-O4'	6.76	117.21	109.10
25	BB	1253	A	C1'-O4'-C4'	-6.76	104.49	109.90
25	BB	1528	A	C6-C5-N7	6.76	137.03	132.30
25	BB	2042	A	C4'-C3'-C2'	-6.76	95.84	102.60
25	BB	2336	A	C5-C6-N6	-6.76	118.29	123.70
19	AT	91	ARG	CD-NE-CZ	6.76	133.06	123.60
25	BB	176	A	C4-C5-N7	-6.76	107.32	110.70
25	BB	411	G	C6-C5-N7	6.76	134.45	130.40
25	BB	635	C	O4'-C1'-N1	6.76	113.61	108.20
25	BB	905	A	C1'-O4'-C4'	-6.76	104.50	109.90
25	BB	928	A	N7-C8-N9	6.76	117.18	113.80
25	BB	1028	A	C3'-C2'-C1'	-6.76	96.09	101.50
25	BB	1046	A	C5-N7-C8	6.76	107.28	103.90
25	BB	1208	C	C1'-O4'-C4'	-6.76	104.49	109.90
25	BB	1933	G	C2-N3-C4	6.76	115.28	111.90
23	AX	37	ARG	NE-CZ-NH2	-6.75	116.92	120.30
25	BB	428	A	C4-C5-C6	-6.75	113.62	117.00
25	BB	2428	G	N1-C6-O6	-6.75	115.85	119.90
1	AA	48	C	OP1-P-OP2	-6.75	109.47	119.60
3	A1	655	A	C1'-O4'-C4'	-6.75	104.50	109.90
3	A1	1141	C	C6-N1-C2	-6.75	117.60	120.30
3	A1	1256	A	O4'-C1'-N9	-6.75	102.80	108.20
25	BB	15	G	C5'-C4'-C3'	-6.75	105.19	116.00
25	BB	116	C	C6-N1-C2	-6.75	117.60	120.30
25	BB	249	C	C5-C4-N4	-6.75	115.47	120.20
25	BB	332	A	O4'-C1'-C2'	-6.75	99.05	105.80
25	BB	789	A	N9-C4-C5	6.75	108.50	105.80
25	BB	957	C	N1-C2-N3	6.75	123.93	119.20
25	BB	1383	A	C3'-C2'-C1'	6.75	106.90	101.50
25	BB	1800	C	C6-N1-C2	-6.75	117.60	120.30
25	BB	1957	C	N3-C4-N4	-6.75	113.27	118.00
25	BB	2282	G	P-O3'-C3'	6.75	127.80	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2336	A	C6-C5-N7	6.75	137.03	132.30
25	BB	2453	A	P-O3'-C3'	6.75	127.80	119.70
44	BU	39	ASP	CB-CG-OD1	6.75	124.38	118.30
1	AE	34	G	N9-C1'-C2'	-6.75	104.57	112.00
3	A1	471	U	N3-C4-O4	6.75	124.12	119.40
3	A1	714	G	C4-C5-N7	-6.75	108.10	110.80
3	A1	794	A	N7-C8-N9	6.75	117.17	113.80
3	A1	1392	G	N3-C4-N9	-6.75	121.95	126.00
24	BA	70	C	N3-C4-C5	6.75	124.60	121.90
25	BB	366	C	N3-C4-C5	6.75	124.60	121.90
25	BB	1921	G	N3-C2-N2	-6.75	115.17	119.90
25	BB	2260	C	N3-C4-C5	6.75	124.60	121.90
25	BB	2550	G	N3-C4-N9	-6.75	121.95	126.00
3	A1	709	U	C5-C6-N1	-6.75	119.33	122.70
3	A1	1095	U	C5-C4-O4	6.75	129.95	125.90
25	BB	6	A	O4'-C1'-N9	6.75	113.60	108.20
25	BB	59	U	N1-C2-N3	6.75	118.95	114.90
25	BB	382	A	N7-C8-N9	6.75	117.17	113.80
25	BB	901	C	N3-C4-N4	-6.75	113.28	118.00
3	A1	648	A	C4-C5-N7	6.75	114.07	110.70
25	BB	537	G	N1-C6-O6	-6.75	115.85	119.90
25	BB	643	A	C4-C5-N7	-6.75	107.33	110.70
25	BB	722	A	C4-C5-N7	-6.75	107.33	110.70
25	BB	748	G	C2-N3-C4	-6.75	108.53	111.90
25	BB	1539	U	C2-N3-C4	-6.75	122.95	127.00
25	BB	1976	U	N3-C4-C5	-6.75	110.55	114.60
25	BB	2100	G	N1-C2-N3	6.75	127.95	123.90
25	BB	2630	G	C5-C6-N1	6.75	114.87	111.50
3	A1	1108	G	N3-C4-C5	-6.75	125.23	128.60
3	A1	1267	C	C5-C4-N4	6.75	124.92	120.20
3	A1	1483	A	C6-C5-N7	6.75	137.02	132.30
25	BB	93	G	C6-C5-N7	6.75	134.45	130.40
25	BB	123	G	C8-N9-C4	-6.75	103.70	106.40
25	BB	283	G	N3-C2-N2	-6.75	115.18	119.90
25	BB	515	A	N1-C6-N6	-6.75	114.55	118.60
25	BB	520	G	C8-N9-C4	6.75	109.10	106.40
25	BB	1046	A	O4'-C1'-N9	6.75	113.60	108.20
25	BB	1202	G	C6-N1-C2	-6.75	121.05	125.10
25	BB	1243	C	C5-C6-N1	-6.75	117.63	121.00
25	BB	1333	G	C2-N3-C4	6.75	115.27	111.90
1	AE	9	A	O4'-C4'-C3'	6.75	111.50	106.10
3	A1	245	U	C3'-C2'-C1'	6.75	106.90	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	57	C	N1-C2-N3	6.75	123.92	119.20
25	BB	622	G	C5-N7-C8	6.75	107.67	104.30
25	BB	1780	A	N1-C2-N3	6.75	132.67	129.30
25	BB	1888	G	O4'-C1'-C2'	6.75	113.67	107.60
25	BB	2373	G	C2-N3-C4	-6.75	108.53	111.90
25	BB	2722	G	N3-C4-N9	6.75	130.05	126.00
25	BB	2799	A	C1'-O4'-C4'	-6.75	104.50	109.90
1	AA	51	G	O4'-C1'-N9	6.74	113.59	108.20
3	A1	46	G	O4'-C1'-N9	6.74	113.60	108.20
3	A1	306	A	C5-C6-N6	6.74	129.09	123.70
3	A1	386	C	O4'-C1'-N1	6.74	113.59	108.20
25	BB	341	C	C6-N1-C2	-6.74	117.60	120.30
25	BB	858	G	C4-C5-N7	6.74	113.50	110.80
25	BB	997	G	N7-C8-N9	6.74	116.47	113.10
25	BB	1340	U	C5'-C4'-C3'	-6.74	105.21	116.00
25	BB	1799	G	N1-C6-O6	-6.74	115.85	119.90
25	BB	1954	G	C6-C5-N7	6.74	134.45	130.40
25	BB	2467	C	N3-C2-O2	-6.74	117.18	121.90
50	B1	48	THR	CA-CB-OG1	6.74	123.16	109.00
3	A1	1244	G	C8-N9-C4	-6.74	103.70	106.40
9	AH	52	ARG	NE-CZ-NH2	6.74	123.67	120.30
24	BA	82	U	N1-C2-O2	6.74	127.52	122.80
25	BB	1660	G	O4'-C1'-C2'	-6.74	99.06	105.80
25	BB	1873	G	N3-C2-N2	-6.74	115.18	119.90
25	BB	1979	U	C4-C5-C6	6.74	123.75	119.70
3	A1	142	G	O4'-C1'-C2'	-6.74	99.06	105.80
3	A1	280	C	C5-C6-N1	-6.74	117.63	121.00
3	A1	356	A	C5-C6-N6	6.74	129.09	123.70
3	A1	805	C	C4-C5-C6	6.74	120.77	117.40
3	A1	1488	G	C4-C5-N7	6.74	113.50	110.80
25	BB	193	U	N3-C4-C5	-6.74	110.56	114.60
25	BB	489	G	C2-N3-C4	-6.74	108.53	111.90
25	BB	1102	C	C5'-C4'-O4'	-6.74	101.01	109.10
25	BB	1203	U	C2-N3-C4	-6.74	122.96	127.00
25	BB	1381	G	N3-C4-N9	-6.74	121.96	126.00
25	BB	1418	G	N3-C4-N9	6.74	130.04	126.00
25	BB	2677	G	C4-C5-C6	-6.74	114.75	118.80
37	BN	51	ARG	NH1-CZ-NH2	-6.74	111.99	119.40
3	A1	297	G	O4'-C4'-C3'	6.74	111.49	106.10
3	A1	348	G	C1'-O4'-C4'	-6.74	104.51	109.90
3	A1	704	A	O5'-P-OP2	-6.74	99.64	105.70
3	A1	714	G	N3-C2-N2	-6.74	115.18	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	773	G	C6-C5-N7	6.74	134.44	130.40
3	A1	930	C	N3-C2-O2	-6.74	117.18	121.90
11	AJ	72	TRP	CH2-CZ2-CE2	6.74	124.14	117.40
24	BA	46	A	N9-C4-C5	6.74	108.50	105.80
25	BB	391	A	C5-C6-N1	6.74	121.07	117.70
25	BB	1065	U	N3-C2-O2	-6.74	117.48	122.20
25	BB	1570	A	C6-C5-N7	6.74	137.02	132.30
25	BB	1641	A	C5-C6-N1	6.74	121.07	117.70
25	BB	2045	C	C1'-O4'-C4'	-6.74	104.51	109.90
25	BB	2568	U	N1-C2-N3	6.74	118.94	114.90
25	BB	2577	A	C2-N3-C4	6.74	113.97	110.60
2	AM	14	U	C4-C5-C6	6.74	123.74	119.70
3	A1	635	A	C6-N1-C2	-6.74	114.56	118.60
3	A1	1235	U	C2-N3-C4	-6.74	122.96	127.00
3	A1	1396	A	N7-C8-N9	6.74	117.17	113.80
25	BB	1902	C	O4'-C1'-N1	6.74	113.59	108.20
3	A1	54	C	O4'-C1'-C2'	6.74	113.66	107.60
3	A1	208	U	N3-C4-O4	6.74	124.11	119.40
3	A1	238	A	C1'-O4'-C4'	-6.74	104.51	109.90
3	A1	382	A	C6-C5-N7	6.74	137.01	132.30
3	A1	461	A	C6-C5-N7	6.74	137.01	132.30
3	A1	746	A	C4'-C3'-O3'	6.74	126.47	113.00
3	A1	1255	G	O3'-P-O5'	-6.74	91.20	104.00
15	AO	171	ARG	NH1-CZ-NH2	-6.74	111.99	119.40
24	BA	102	G	N1-C2-N2	-6.74	110.14	116.20
25	BB	295	G	C4'-C3'-C2'	-6.74	95.86	102.60
25	BB	366	C	C6-N1-C2	-6.74	117.61	120.30
25	BB	552	U	C3'-C2'-C1'	-6.74	96.11	101.50
25	BB	691	C	P-O3'-C3'	6.74	127.78	119.70
25	BB	1017	G	C5-C6-O6	6.74	132.64	128.60
25	BB	1103	A	N7-C8-N9	6.74	117.17	113.80
25	BB	2425	A	C6-C5-N7	6.74	137.01	132.30
25	BB	2821	A	P-O3'-C3'	6.74	127.78	119.70
25	BB	1219	U	C2-N3-C4	-6.73	122.96	127.00
1	AP	11	C	N1-C2-O2	6.73	122.94	118.90
3	A1	808	C	N1-C2-N3	6.73	123.91	119.20
3	A1	838	G	N7-C8-N9	6.73	116.47	113.10
23	AX	89	ARG	NE-CZ-NH1	6.73	123.67	120.30
24	BA	40	U	C5'-C4'-C3'	-6.73	105.23	116.00
25	BB	88	G	N1-C2-N2	-6.73	110.14	116.20
25	BB	1004	U	N1-C2-O2	6.73	127.51	122.80
25	BB	1044	C	N3-C4-C5	6.73	124.59	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1295	C	N3-C4-C5	6.73	124.59	121.90
25	BB	1427	A	C5-N7-C8	-6.73	100.53	103.90
25	BB	1477	A	C5-C6-N6	6.73	129.09	123.70
25	BB	1490	A	C2-N3-C4	6.73	113.97	110.60
25	BB	2248	C	C3'-C2'-C1'	-6.73	96.11	101.50
25	BB	2487	G	C6-C5-N7	6.73	134.44	130.40
3	A1	898	G	N7-C8-N9	-6.73	109.73	113.10
24	BA	86	G	C4-C5-C6	-6.73	114.76	118.80
25	BB	42	A	C8-N9-C4	-6.73	103.11	105.80
25	BB	83	A	C4-C5-C6	-6.73	113.63	117.00
25	BB	1358	G	N3-C2-N2	-6.73	115.19	119.90
25	BB	1543	G	C5-C6-O6	6.73	132.64	128.60
25	BB	2485	G	N3-C2-N2	-6.73	115.19	119.90
25	BB	2861	U	O4'-C1'-N1	6.73	113.58	108.20
1	AP	42	G	N7-C8-N9	6.73	116.46	113.10
25	BB	370	G	C2-N3-C4	-6.73	108.53	111.90
25	BB	857	G	C4-C5-N7	-6.73	108.11	110.80
25	BB	1155	A	C4-C5-C6	-6.73	113.64	117.00
25	BB	1564	C	N3-C4-C5	6.73	124.59	121.90
25	BB	1748	C	N1-C2-O2	6.73	122.94	118.90
25	BB	2589	A	N7-C8-N9	6.73	117.16	113.80
1	AA	36	A	N9-C4-C5	6.73	108.49	105.80
1	AE	45	G	N3-C2-N2	-6.73	115.19	119.90
3	A1	18	C	C6-N1-C2	-6.73	117.61	120.30
3	A1	78	A	C4-C5-N7	6.73	114.06	110.70
3	A1	697	U	N1-C2-O2	6.73	127.51	122.80
3	A1	846	G	C2-N3-C4	-6.73	108.54	111.90
3	A1	896	C	C5-C6-N1	-6.73	117.64	121.00
3	A1	1092	A	N1-C2-N3	-6.73	125.94	129.30
3	A1	1474	U	O4'-C4'-C3'	-6.73	97.27	104.00
25	BB	196	A	O4'-C1'-N9	6.73	113.58	108.20
25	BB	308	G	N7-C8-N9	6.73	116.46	113.10
25	BB	553	G	C1'-O4'-C4'	-6.73	104.52	109.90
25	BB	647	G	N3-C4-N9	6.73	130.04	126.00
25	BB	1418	G	C4-C5-N7	6.73	113.49	110.80
24	BA	44	G	N1-C2-N3	6.73	127.94	123.90
25	BB	1959	G	C5'-C4'-O4'	6.73	117.17	109.10
3	A1	11	G	C6-N1-C2	-6.72	121.07	125.10
3	A1	129	A	N1-C2-N3	-6.72	125.94	129.30
3	A1	219	U	C5-C6-N1	-6.72	119.34	122.70
3	A1	930	C	C5-C6-N1	-6.72	117.64	121.00
4	AB	182	VAL	CG1-CB-CG2	-6.72	100.14	110.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	361	G	N3-C2-N2	-6.72	115.19	119.90
25	BB	621	A	O4'-C1'-N9	6.72	113.58	108.20
25	BB	644	A	C8-N9-C4	-6.72	103.11	105.80
25	BB	833	A	C6-C5-N7	6.72	137.01	132.30
25	BB	1072	C	C4-C5-C6	6.72	120.76	117.40
25	BB	1232	G	C5-C6-O6	6.72	132.63	128.60
25	BB	1704	C	C5'-C4'-O4'	-6.72	101.03	109.10
25	BB	1847	A	C6-N1-C2	6.72	122.64	118.60
25	BB	2585	U	O4'-C4'-C3'	6.72	111.48	106.10
25	BB	2747	G	N3-C2-N2	6.72	124.61	119.90
26	BC	82	TYR	CB-CG-CD2	-6.72	116.97	121.00
1	AP	37	G	N9-C1'-C2'	-6.72	104.61	112.00
3	A1	636	U	N1-C2-N3	6.72	118.93	114.90
3	A1	761	G	N7-C8-N9	6.72	116.46	113.10
25	BB	232	G	C1'-O4'-C4'	-6.72	104.52	109.90
25	BB	297	G	C4-C5-C6	-6.72	114.77	118.80
25	BB	1668	A	C6-C5-N7	6.72	137.01	132.30
25	BB	1733	G	O4'-C1'-N9	6.72	113.58	108.20
25	BB	2028	U	N3-C2-O2	6.72	126.91	122.20
25	BB	2336	A	C4-C5-N7	-6.72	107.34	110.70
25	BB	2347	C	N1-C2-O2	6.72	122.93	118.90
1	AP	71	G	N1-C2-N2	-6.72	110.15	116.20
3	A1	551	U	C4-C5-C6	6.72	123.73	119.70
3	A1	1154	G	C5-C6-O6	-6.72	124.57	128.60
24	BA	42	C	O4'-C1'-N1	6.72	113.58	108.20
24	BA	104	A	C5-C6-N6	6.72	129.08	123.70
25	BB	455	C	O4'-C1'-N1	6.72	113.58	108.20
25	BB	1673	G	C4-C5-N7	6.72	113.49	110.80
25	BB	2041	U	C2-N3-C4	-6.72	122.97	127.00
44	BU	27	ARG	NE-CZ-NH1	6.72	123.66	120.30
54	B5	76	ALA	CB-CA-C	6.72	120.18	110.10
3	A1	980	C	O4'-C1'-C2'	-6.72	99.08	105.80
3	A1	1200	C	C4'-C3'-C2'	-6.72	95.88	102.60
3	A1	1489	G	N1-C6-O6	-6.72	115.87	119.90
25	BB	911	A	C6-N1-C2	-6.72	114.57	118.60
25	BB	1164	C	N3-C2-O2	-6.72	117.20	121.90
25	BB	1504	A	C6-C5-N7	6.72	137.00	132.30
25	BB	2440	C	O4'-C1'-C2'	6.72	113.65	107.60
25	BB	2727	A	C5'-C4'-O4'	6.72	117.16	109.10
25	BB	16	C	N3-C2-O2	-6.72	117.20	121.90
25	BB	101	A	C8-N9-C4	-6.72	103.11	105.80
25	BB	1435	G	O3'-P-O5'	-6.72	91.24	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1723	G	C1'-O4'-C4'	6.72	115.28	109.90
25	BB	1974	C	C6-N1-C2	-6.72	117.61	120.30
25	BB	1993	U	N1-C2-N3	6.72	118.93	114.90
1	AP	57	G	N3-C4-N9	6.72	130.03	126.00
3	A1	1015	G	C6-C5-N7	6.72	134.43	130.40
3	A1	1200	C	O4'-C1'-C2'	-6.72	99.08	105.80
3	A1	1280	A	C4-C5-C6	-6.72	113.64	117.00
3	A1	1339	A	C5'-C4'-C3'	-6.72	105.25	116.00
3	A1	1456	A	C8-N9-C4	-6.72	103.11	105.80
25	BB	1599	U	C5-C4-O4	6.72	129.93	125.90
25	BB	1650	A	C5-C6-N1	6.72	121.06	117.70
25	BB	2115	G	N1-C2-N3	6.72	127.93	123.90
25	BB	2377	A	C6-C5-N7	6.72	137.00	132.30
25	BB	2401	U	N3-C4-O4	-6.72	114.70	119.40
25	BB	2756	U	P-O3'-C3'	6.72	127.76	119.70
25	BB	649	G	C6-C5-N7	-6.71	126.37	130.40
25	BB	1009	A	C4-C5-N7	6.71	114.06	110.70
25	BB	1076	C	N1-C2-N3	6.71	123.90	119.20
25	BB	1193	G	C5-C6-N1	6.71	114.86	111.50
25	BB	1339	G	N3-C4-C5	-6.71	125.24	128.60
25	BB	1341	G	O4'-C1'-N9	6.71	113.57	108.20
25	BB	1405	U	C5-C6-N1	-6.71	119.34	122.70
25	BB	2429	G	C6-N1-C2	-6.71	121.07	125.10
25	BB	2642	G	C5'-C4'-C3'	-6.71	105.26	116.00
29	BF	122	ALA	C-N-CA	6.71	138.49	121.70
24	BA	28	C	C5'-C4'-O4'	6.71	117.16	109.10
25	BB	2183	A	C2-N3-C4	6.71	113.96	110.60
25	BB	2218	G	C3'-C2'-C1'	6.71	106.87	101.50
25	BB	2284	A	C5-C6-N6	6.71	129.07	123.70
25	BB	2553	G	N3-C4-C5	-6.71	125.24	128.60
3	A1	927	G	O4'-C1'-C2'	6.71	113.64	107.60
24	BA	40	U	N1-C2-N3	6.71	118.93	114.90
25	BB	122	G	C5-C6-O6	-6.71	124.57	128.60
25	BB	1249	U	N3-C4-C5	6.71	118.63	114.60
25	BB	1932	A	C5-C6-N1	6.71	121.06	117.70
25	BB	2444	G	C5-N7-C8	-6.71	100.94	104.30
25	BB	2660	A	C5-C6-N6	6.71	129.07	123.70
25	BB	2759	G	N9-C4-C5	6.71	108.08	105.40
3	A1	6	G	C6-C5-N7	6.71	134.43	130.40
3	A1	1402	C	N3-C2-O2	-6.71	117.20	121.90
25	BB	64	A	C5-C6-N6	6.71	129.07	123.70
25	BB	651	G	C5-N7-C8	6.71	107.66	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	805	G	C5-N7-C8	-6.71	100.94	104.30
25	BB	1460	U	C2-N3-C4	-6.71	122.97	127.00
25	BB	2180	U	N3-C2-O2	-6.71	117.50	122.20
25	BB	2307	G	N3-C4-N9	6.71	130.03	126.00
25	BB	2579	C	O5'-P-OP1	-6.71	99.66	105.70
1	AP	9	A	N9-C4-C5	-6.71	103.12	105.80
3	A1	309	A	O4'-C1'-N9	-6.71	102.83	108.20
3	A1	991	U	N1-C2-N3	6.71	118.92	114.90
3	A1	1149	C	N1-C1'-C2'	-6.71	104.62	112.00
25	BB	19	A	C6-C5-N7	6.71	137.00	132.30
25	BB	83	A	C2-N3-C4	6.71	113.95	110.60
25	BB	800	A	N3-C4-N9	-6.71	122.03	127.40
25	BB	844	A	N9-C4-C5	6.71	108.48	105.80
25	BB	1109	C	C1'-O4'-C4'	-6.71	104.53	109.90
25	BB	1548	A	N9-C4-C5	-6.71	103.12	105.80
25	BB	1620	G	N9-C4-C5	6.71	108.08	105.40
25	BB	2534	A	C3'-C2'-C1'	6.71	106.87	101.50
25	BB	2535	G	N7-C8-N9	-6.71	109.75	113.10
25	BB	2663	G	C5-N7-C8	-6.71	100.95	104.30
27	BD	49	ARG	CD-NE-CZ	6.71	132.99	123.60
1	AE	69	U	N1-C2-N3	6.71	118.92	114.90
3	A1	24	U	O4'-C4'-C3'	6.71	111.47	106.10
3	A1	207	C	N3-C4-N4	6.71	122.69	118.00
3	A1	560	A	C1'-O4'-C4'	-6.71	104.54	109.90
3	A1	700	G	C4-C5-N7	-6.71	108.12	110.80
3	A1	1169	A	C5-N7-C8	6.71	107.25	103.90
3	A1	1246	A	C5-C6-N6	6.71	129.06	123.70
3	A1	1516	G	C6-C5-N7	6.71	134.42	130.40
24	BA	12	C	C2-N3-C4	-6.71	116.55	119.90
25	BB	464	U	C5-C6-N1	-6.71	119.35	122.70
25	BB	625	G	C4-C5-N7	-6.71	108.12	110.80
25	BB	2067	G	C6-N1-C2	6.71	129.12	125.10
25	BB	2306	C	O4'-C1'-N1	-6.71	102.83	108.20
25	BB	2383	G	C4'-C3'-C2'	-6.71	95.89	102.60
25	BB	2398	U	C4-C5-C6	6.71	123.72	119.70
25	BB	2558	C	N3-C2-O2	-6.71	117.20	121.90
25	BB	2617	U	C5'-C4'-C3'	-6.71	105.27	116.00
3	A1	119	A	C2-N3-C4	6.71	113.95	110.60
3	A1	1305	G	N1-C2-N2	-6.71	110.17	116.20
23	AX	75	ASP	CB-CG-OD2	6.71	124.33	118.30
25	BB	107	G	N3-C4-N9	-6.71	121.98	126.00
25	BB	719	C	N3-C2-O2	-6.71	117.21	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2665	A	N1-C2-N3	-6.71	125.95	129.30
25	BB	2781	A	N1-C6-N6	-6.71	114.58	118.60
3	A1	391	G	N9-C4-C5	-6.70	102.72	105.40
3	A1	423	G	C5'-C4'-O4'	6.70	117.14	109.10
3	A1	1027	C	C1'-O4'-C4'	-6.70	104.54	109.90
3	A1	1346	A	C2-N3-C4	6.70	113.95	110.60
25	BB	468	G	N3-C4-C5	-6.70	125.25	128.60
25	BB	765	C	C5-C6-N1	-6.70	117.65	121.00
25	BB	981	A	C2-N3-C4	6.70	113.95	110.60
25	BB	1102	C	C5-C6-N1	-6.70	117.65	121.00
25	BB	2333	A	C4-C5-C6	-6.70	113.65	117.00
1	AA	69	U	O4'-C1'-C2'	-6.70	99.10	105.80
25	BB	43	G	N1-C2-N3	6.70	127.92	123.90
25	BB	651	G	C4-C5-N7	-6.70	108.12	110.80
25	BB	890	C	C4'-C3'-C2'	-6.70	95.90	102.60
25	BB	953	G	C4-C5-N7	6.70	113.48	110.80
25	BB	1373	A	C6-N1-C2	-6.70	114.58	118.60
25	BB	1420	A	C5-C6-N6	6.70	129.06	123.70
25	BB	2247	A	C6-C5-N7	6.70	136.99	132.30
25	BB	2779	U	N3-C2-O2	-6.70	117.51	122.20
3	A1	13	U	N1-C2-O2	6.70	127.49	122.80
3	A1	157	U	N3-C2-O2	-6.70	117.51	122.20
25	BB	134	G	C5-N7-C8	-6.70	100.95	104.30
25	BB	263	G	C4-C5-N7	-6.70	108.12	110.80
25	BB	354	A	C2-N3-C4	6.70	113.95	110.60
25	BB	731	C	C2-N3-C4	-6.70	116.55	119.90
25	BB	1508	A	O4'-C1'-C2'	-6.70	99.10	105.80
25	BB	1790	C	P-O3'-C3'	6.70	127.74	119.70
25	BB	2811	G	C4-C5-N7	6.70	113.48	110.80
1	AA	13	C	N1-C2-O2	-6.70	114.88	118.90
3	A1	620	C	N1-C2-N3	6.70	123.89	119.20
3	A1	1360	A	C6-N1-C2	6.70	122.62	118.60
25	BB	61	C	N3-C4-C5	6.70	124.58	121.90
25	BB	381	G	N3-C4-C5	-6.70	125.25	128.60
25	BB	608	A	P-O3'-C3'	6.70	127.74	119.70
25	BB	1041	G	N1-C6-O6	-6.70	115.88	119.90
25	BB	1203	U	N1-C2-N3	6.70	118.92	114.90
25	BB	1645	G	N7-C8-N9	6.70	116.45	113.10
25	BB	1678	A	C2-N3-C4	6.70	113.95	110.60
25	BB	1811	G	N9-C4-C5	6.70	108.08	105.40
25	BB	2689	U	O4'-C1'-N1	6.70	113.56	108.20
25	BB	2718	G	C6-C5-N7	6.70	134.42	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AE	8	U	C2-N3-C4	-6.70	122.98	127.00
3	A1	10	A	C4'-C3'-C2'	-6.70	95.90	102.60
3	A1	307	C	N1-C2-N3	6.70	123.89	119.20
3	A1	484	G	C5'-C4'-O4'	6.70	117.14	109.10
3	A1	1418	A	C6-C5-N7	6.70	136.99	132.30
24	BA	73	A	C6-N1-C2	-6.70	114.58	118.60
3	A1	775	G	O4'-C1'-N9	6.70	113.56	108.20
3	A1	840	C	C5-C6-N1	6.70	124.35	121.00
3	A1	1071	C	O4'-C1'-N1	6.70	113.56	108.20
25	BB	540	C	C5-C4-N4	6.70	124.89	120.20
25	BB	891	G	N7-C8-N9	-6.70	109.75	113.10
25	BB	1155	A	O4'-C4'-C3'	6.70	111.46	106.10
25	BB	1273	U	O4'-C4'-C3'	6.70	111.46	106.10
25	BB	1514	G	C5'-C4'-O4'	6.70	117.13	109.10
25	BB	1601	G	O4'-C1'-N9	6.70	113.56	108.20
25	BB	1639	C	C6-N1-C2	6.70	122.98	120.30
25	BB	1840	G	C4-C5-C6	-6.70	114.78	118.80
25	BB	2187	U	C5-C4-O4	6.70	129.92	125.90
1	AE	64	A	P-O3'-C3'	6.69	127.73	119.70
3	A1	473	U	C5-C6-N1	-6.69	119.35	122.70
3	A1	1028	C	C5'-C4'-O4'	6.69	117.13	109.10
3	A1	1234	C	C4-C5-C6	-6.69	114.05	117.40
24	BA	61	G	C4'-C3'-C2'	-6.69	95.91	102.60
25	BB	200	U	N1-C2-O2	6.69	127.49	122.80
25	BB	453	A	N7-C8-N9	6.69	117.15	113.80
25	BB	1325	U	O4'-C4'-C3'	6.69	111.45	106.10
25	BB	1504	A	C4-C5-C6	-6.69	113.65	117.00
25	BB	2260	C	O4'-C1'-C2'	-6.69	99.11	105.80
1	AA	73	A	C4'-C3'-O3'	6.69	126.39	113.00
3	A1	138	G	C6-C5-N7	6.69	134.41	130.40
3	A1	340	U	C5-C6-N1	-6.69	119.35	122.70
3	A1	447	G	C5-C6-N1	6.69	114.85	111.50
3	A1	1162	C	N1-C1'-C2'	-6.69	104.64	112.00
25	BB	263	G	C5-C6-O6	6.69	132.62	128.60
25	BB	343	C	N3-C4-C5	6.69	124.58	121.90
25	BB	533	G	N1-C2-N2	-6.69	110.18	116.20
25	BB	589	U	C2-N3-C4	-6.69	122.98	127.00
25	BB	1127	A	C4-C5-C6	-6.69	113.65	117.00
25	BB	1880	U	C6-N1-C2	-6.69	116.98	121.00
25	BB	2054	A	C2-N3-C4	6.69	113.95	110.60
25	BB	2074	U	C4-C5-C6	6.69	123.72	119.70
25	BB	2255	G	N3-C4-C5	-6.69	125.25	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2283	C	C5'-C4'-C3'	-6.69	105.29	116.00
25	BB	2327	A	C3'-C2'-C1'	6.69	106.85	101.50
25	BB	2339	C	O4'-C1'-N1	6.69	113.56	108.20
25	BB	2797	U	C2-N3-C4	-6.69	122.98	127.00
1	AP	32	C	C2-N3-C4	-6.69	116.56	119.90
3	A1	122	G	C5-N7-C8	6.69	107.65	104.30
3	A1	600	A	C5-C6-N1	6.69	121.05	117.70
3	A1	1257	A	C2-N3-C4	6.69	113.94	110.60
17	AR	158	LEU	CB-CG-CD1	-6.69	99.62	111.00
25	BB	455	C	C1'-O4'-C4'	-6.69	104.55	109.90
25	BB	528	A	C5-C6-N1	6.69	121.05	117.70
25	BB	571	U	C5-C6-N1	-6.69	119.36	122.70
25	BB	801	G	O4'-C4'-C3'	6.69	111.45	106.10
25	BB	927	A	C6-C5-N7	6.69	136.98	132.30
25	BB	1025	G	C8-N9-C4	-6.69	103.72	106.40
25	BB	1034	G	C5-N7-C8	6.69	107.64	104.30
25	BB	1105	U	C3'-C2'-C1'	-6.69	96.15	101.50
25	BB	1286	A	C5-C6-N6	6.69	129.05	123.70
25	BB	2017	U	N1-C2-O2	6.69	127.48	122.80
25	BB	2637	U	C1'-O4'-C4'	-6.69	104.55	109.90
3	A1	429	U	P-O3'-C3'	6.69	127.73	119.70
3	A1	785	G	O4'-C1'-N9	6.69	113.55	108.20
3	A1	1415	G	N1-C2-N3	6.69	127.91	123.90
4	AB	8	MET	CG-SD-CE	6.69	110.90	100.20
25	BB	1809	A	P-O3'-C3'	6.69	127.73	119.70
25	BB	2036	C	N3-C2-O2	-6.69	117.22	121.90
42	BS	63	ARG	NH1-CZ-NH2	-6.69	112.04	119.40
1	AA	6	U	N3-C4-C5	6.69	118.61	114.60
3	A1	5	U	N3-C4-C5	-6.69	110.59	114.60
3	A1	713	G	O4'-C1'-N9	6.69	113.55	108.20
3	A1	921	U	C4'-C3'-C2'	-6.69	95.91	102.60
3	A1	1099	G	C5-C6-N1	6.69	114.84	111.50
3	A1	1517	G	C8-N9-C4	-6.69	103.72	106.40
24	BA	82	U	O4'-C1'-N1	6.69	113.55	108.20
25	BB	164	C	N3-C4-N4	-6.69	113.32	118.00
25	BB	258	G	N1-C2-N3	6.69	127.91	123.90
25	BB	848	C	N3-C4-C5	6.69	124.58	121.90
25	BB	999	U	N1-C2-N3	6.69	118.91	114.90
25	BB	1191	G	C4'-C3'-C2'	-6.69	95.91	102.60
25	BB	1849	G	N3-C2-N2	-6.69	115.22	119.90
3	A1	164	G	C4-C5-C6	-6.69	114.79	118.80
3	A1	1023	U	O4'-C4'-C3'	6.69	111.45	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	AB	69	VAL	CA-CB-CG2	6.69	120.93	110.90
25	BB	1351	C	C4'-C3'-C2'	6.69	109.29	102.60
25	BB	1442	U	C2-N3-C4	-6.69	122.99	127.00
25	BB	1926	U	C4-C5-C6	6.69	123.71	119.70
25	BB	2580	U	N1-C2-N3	6.69	118.91	114.90
3	A1	1147	C	C4-C5-C6	-6.68	114.06	117.40
24	BA	34	A	C8-N9-C4	-6.68	103.13	105.80
25	BB	27	G	C3'-C2'-C1'	6.68	106.85	101.50
25	BB	652	U	C5-C6-N1	-6.68	119.36	122.70
25	BB	907	G	N9-C4-C5	6.68	108.07	105.40
25	BB	914	G	C5'-C4'-O4'	6.68	117.12	109.10
25	BB	981	A	C4-C5-C6	-6.68	113.66	117.00
25	BB	2197	U	C6-N1-C2	-6.68	116.99	121.00
25	BB	2211	A	N9-C4-C5	6.68	108.47	105.80
25	BB	2515	C	C1'-O4'-C4'	6.68	115.25	109.90
25	BB	2648	G	O4'-C1'-N9	6.68	113.55	108.20
25	BB	2651	C	C5'-C4'-O4'	6.68	117.12	109.10
37	BN	22	GLU	N-CA-CB	-6.68	98.57	110.60
3	A1	26	A	C3'-C2'-C1'	6.68	106.85	101.50
3	A1	284	C	N3-C4-C5	6.68	124.57	121.90
3	A1	742	G	C3'-C2'-C1'	6.68	106.85	101.50
3	A1	948	C	C5'-C4'-O4'	-6.68	101.08	109.10
3	A1	1271	A	N7-C8-N9	6.68	117.14	113.80
25	BB	898	C	C5-C4-N4	6.68	124.88	120.20
25	BB	1008	A	N9-C4-C5	6.68	108.47	105.80
25	BB	1040	A	O4'-C1'-N9	-6.68	102.86	108.20
25	BB	1067	A	N3-C4-N9	-6.68	122.05	127.40
25	BB	1356	G	N1-C2-N2	-6.68	110.19	116.20
25	BB	1918	A	C5-N7-C8	-6.68	100.56	103.90
25	BB	2452	C	O4'-C4'-C3'	6.68	111.45	106.10
25	BB	2542	A	C5-N7-C8	-6.68	100.56	103.90
3	A1	461	A	C5'-C4'-O4'	6.68	117.12	109.10
3	A1	813	U	N3-C4-C5	6.68	118.61	114.60
3	A1	938	A	P-O5'-C5'	6.68	131.59	120.90
3	A1	1231	G	N7-C8-N9	6.68	116.44	113.10
25	BB	168	G	N1-C2-N3	6.68	127.91	123.90
25	BB	2486	C	N3-C2-O2	-6.68	117.22	121.90
1	AA	39	U	C3'-C2'-C1'	-6.68	96.16	101.50
3	A1	606	G	C5-C6-O6	6.68	132.61	128.60
3	A1	889	A	N3-C4-N9	-6.68	122.06	127.40
3	A1	970	C	C2-N3-C4	-6.68	116.56	119.90
3	A1	1258	G	N3-C4-C5	-6.68	125.26	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1337	G	O4'-C1'-C2'	-6.68	99.12	105.80
25	BB	512	G	N9-C4-C5	6.68	108.07	105.40
25	BB	987	C	C2-N3-C4	6.68	123.24	119.90
25	BB	1025	G	N3-C4-C5	-6.68	125.26	128.60
25	BB	1497	U	N1-C2-N3	6.68	118.91	114.90
25	BB	1941	C	C5-C4-N4	-6.68	115.53	120.20
25	BB	2188	U	N3-C2-O2	-6.68	117.53	122.20
25	BB	2303	G	O4'-C4'-C3'	-6.68	97.32	104.00
25	BB	2494	G	N9-C4-C5	6.68	108.07	105.40
25	BB	2566	A	C5-C6-N1	6.68	121.04	117.70
1	AE	10	G	N7-C8-N9	6.68	116.44	113.10
3	A1	574	A	C5-C6-N6	6.68	129.04	123.70
25	BB	253	C	N3-C2-O2	-6.68	117.22	121.90
25	BB	370	G	O5'-P-OP1	-6.68	99.69	105.70
25	BB	888	C	C5-C6-N1	-6.68	117.66	121.00
25	BB	1428	C	C4-C5-C6	-6.68	114.06	117.40
3	A1	376	G	N1-C6-O6	-6.68	115.89	119.90
3	A1	416	G	C4'-C3'-C2'	-6.68	95.92	102.60
3	A1	652	U	C1'-O4'-C4'	-6.68	104.56	109.90
3	A1	665	A	C4-C5-C6	-6.68	113.66	117.00
3	A1	895	G	C6-C5-N7	6.68	134.41	130.40
3	A1	1157	A	C8-N9-C4	-6.68	103.13	105.80
3	A1	1214	C	C4-C5-C6	6.68	120.74	117.40
3	A1	1331	G	N3-C2-N2	6.68	124.57	119.90
3	A1	1369	C	C2-N3-C4	-6.68	116.56	119.90
6	AD	2	THR	CA-CB-CG2	-6.68	103.05	112.40
25	BB	81	G	N1-C2-N3	6.68	127.91	123.90
25	BB	627	A	C3'-C2'-C1'	6.68	106.84	101.50
25	BB	971	G	C6-N1-C2	-6.68	121.09	125.10
25	BB	1160	G	C5'-C4'-O4'	6.68	117.11	109.10
25	BB	1336	A	N1-C2-N3	-6.68	125.96	129.30
25	BB	1366	A	N9-C1'-C2'	-6.68	104.66	112.00
25	BB	1841	U	C1'-O4'-C4'	-6.68	104.56	109.90
25	BB	2313	C	O4'-C1'-C2'	6.68	113.61	107.60
25	BB	2335	A	C6-N1-C2	-6.68	114.59	118.60
3	A1	19	A	P-O3'-C3'	6.67	127.71	119.70
3	A1	631	C	C4'-C3'-C2'	-6.67	95.92	102.60
3	A1	657	U	N3-C4-O4	-6.67	114.73	119.40
3	A1	1342	C	C6-N1-C2	6.67	122.97	120.30
22	AW	28	VAL	CG1-CB-CG2	-6.67	100.22	110.90
25	BB	332	A	C6-C5-N7	6.67	136.97	132.30
25	BB	1543	G	C5'-C4'-O4'	6.67	117.11	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1555	G	N1-C6-O6	6.67	123.91	119.90
25	BB	1907	G	O4'-C1'-N9	6.67	113.54	108.20
25	BB	2072	C	C4-C5-C6	6.67	120.74	117.40
25	BB	2147	A	C5-C6-N6	6.67	129.04	123.70
25	BB	2760	C	C6-N1-C2	-6.67	117.63	120.30
25	BB	2892	G	C6-C5-N7	6.67	134.40	130.40
3	A1	152	A	C5'-C4'-O4'	6.67	117.11	109.10
3	A1	753	A	N7-C8-N9	-6.67	110.46	113.80
3	A1	1365	G	O4'-C1'-C2'	-6.67	99.13	105.80
25	BB	270	A	N1-C6-N6	-6.67	114.60	118.60
25	BB	327	G	N3-C4-C5	-6.67	125.26	128.60
25	BB	2604	U	N3-C4-O4	-6.67	114.73	119.40
41	BR	10	ARG	NE-CZ-NH1	6.67	123.64	120.30
1	AE	7	U	O4'-C4'-C3'	6.67	111.44	106.10
3	A1	77	A	O4'-C1'-N9	6.67	113.54	108.20
3	A1	586	C	C6-N1-C2	-6.67	117.63	120.30
3	A1	986	U	N1-C2-O2	-6.67	118.13	122.80
14	AN	35	TYR	CB-CG-CD2	-6.67	117.00	121.00
23	AX	31	ARG	NE-CZ-NH2	-6.67	116.96	120.30
24	BA	77	U	N3-C4-C5	-6.67	110.60	114.60
24	BA	90	C	C4-C5-C6	-6.67	114.06	117.40
25	BB	67	U	C1'-O4'-C4'	-6.67	104.56	109.90
25	BB	449	A	C5-C6-N1	6.67	121.03	117.70
25	BB	1334	G	O4'-C1'-C2'	-6.67	99.13	105.80
25	BB	1678	A	N1-C6-N6	-6.67	114.60	118.60
25	BB	1697	G	N1-C6-O6	-6.67	115.90	119.90
25	BB	2597	G	C4-C5-N7	-6.67	108.13	110.80
25	BB	2633	G	C6-N1-C2	-6.67	121.10	125.10
25	BB	2666	C	C6-N1-C2	-6.67	117.63	120.30
27	BD	69	VAL	CA-CB-CG2	6.67	120.91	110.90
3	A1	296	U	C5-C4-O4	-6.67	121.90	125.90
25	BB	539	G	C5-C6-O6	6.67	132.60	128.60
25	BB	572	A	C6-C5-N7	6.67	136.97	132.30
25	BB	869	G	C5-C6-N1	6.67	114.83	111.50
25	BB	1308	A	C2-N3-C4	-6.67	107.27	110.60
25	BB	2366	A	C2-N3-C4	6.67	113.94	110.60
25	BB	2599	G	N1-C6-O6	-6.67	115.90	119.90
37	BN	101	ARG	NE-CZ-NH2	6.67	123.64	120.30
3	A1	122	G	C3'-C2'-C1'	6.67	106.83	101.50
3	A1	159	G	C4-C5-N7	6.67	113.47	110.80
3	A1	267	C	C3'-C2'-C1'	6.67	106.83	101.50
5	AC	24	ALA	C-N-CA	6.67	138.37	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	432	A	C4-C5-N7	6.67	114.03	110.70
25	BB	1195	G	C6-N1-C2	-6.67	121.10	125.10
25	BB	1210	G	C8-N9-C4	6.67	109.07	106.40
25	BB	1879	C	C4-C5-C6	6.67	120.73	117.40
25	BB	2482	A	C5-N7-C8	-6.67	100.57	103.90
25	BB	2511	U	N3-C4-O4	6.67	124.07	119.40
25	BB	2778	A	C5'-C4'-O4'	-6.67	101.10	109.10
25	BB	2858	C	C6-N1-C2	-6.67	117.63	120.30
1	AA	51	G	N3-C2-N2	-6.67	115.23	119.90
3	A1	270	A	C2-N3-C4	6.67	113.93	110.60
3	A1	1476	A	C3'-C2'-C1'	-6.67	96.17	101.50
3	A1	1480	A	N9-C4-C5	-6.67	103.13	105.80
25	BB	6	A	C5-N7-C8	-6.67	100.57	103.90
25	BB	460	A	C6-C5-N7	6.67	136.97	132.30
25	BB	511	U	N1-C2-O2	6.67	127.47	122.80
25	BB	718	A	C5-C6-N6	6.67	129.03	123.70
25	BB	1387	A	O4'-C4'-C3'	6.67	111.43	106.10
25	BB	1525	A	C5-C6-N6	6.67	129.03	123.70
25	BB	1889	A	C1'-O4'-C4'	6.67	115.23	109.90
25	BB	2074	U	C5-C4-O4	6.67	129.90	125.90
25	BB	2323	G	C5-C6-O6	6.67	132.60	128.60
25	BB	2336	A	P-O3'-C3'	6.67	127.70	119.70
25	BB	2517	C	C4'-C3'-C2'	-6.67	95.93	102.60
25	BB	2617	U	N3-C2-O2	-6.67	117.53	122.20
3	A1	486	U	N3-C4-O4	-6.67	114.73	119.40
3	A1	1009	U	C3'-C2'-C1'	6.67	106.83	101.50
3	A1	1254	A	C3'-C2'-C1'	-6.67	96.17	101.50
11	AJ	58	VAL	CA-CB-CG1	-6.67	100.90	110.90
25	BB	291	G	N7-C8-N9	6.67	116.43	113.10
25	BB	797	G	O4'-C1'-N9	6.67	113.53	108.20
25	BB	1861	G	C6-N1-C2	-6.67	121.10	125.10
25	BB	1877	A	C5-N7-C8	-6.67	100.57	103.90
25	BB	2792	A	C5'-C4'-O4'	6.67	117.10	109.10
52	B3	54	ARG	CD-NE-CZ	6.67	132.93	123.60
1	AE	70	C	C5-C6-N1	6.66	124.33	121.00
3	A1	61	G	N1-C2-N3	6.66	127.90	123.90
3	A1	319	G	N3-C4-N9	6.66	130.00	126.00
3	A1	1291	U	N3-C4-C5	-6.66	110.60	114.60
3	A1	1353	G	C3'-C2'-C1'	6.66	106.83	101.50
25	BB	207	A	N1-C2-N3	-6.66	125.97	129.30
25	BB	731	C	N3-C4-N4	-6.66	113.34	118.00
25	BB	788	A	C1'-O4'-C4'	-6.66	104.57	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1071	G	C5-C6-N1	6.66	114.83	111.50
25	BB	1168	G	C5-C6-O6	6.66	132.60	128.60
25	BB	1201	U	N3-C2-O2	-6.66	117.53	122.20
25	BB	1626	A	C6-C5-N7	6.66	136.97	132.30
25	BB	1643	G	N1-C6-O6	-6.66	115.90	119.90
25	BB	2714	G	N3-C4-N9	6.66	130.00	126.00
31	BH	94	ARG	NH1-CZ-NH2	-6.66	112.07	119.40
3	A1	1488	G	C5-N7-C8	-6.66	100.97	104.30
25	BB	1035	U	C2-N3-C4	6.66	131.00	127.00
25	BB	1530	G	N1-C2-N2	6.66	122.20	116.20
25	BB	2387	U	P-O3'-C3'	6.66	127.69	119.70
1	AP	3	G	C5'-C4'-O4'	6.66	117.09	109.10
3	A1	30	U	O4'-C1'-C2'	-6.66	99.14	105.80
3	A1	146	G	C6-N1-C2	-6.66	121.10	125.10
3	A1	197	A	C4'-C3'-C2'	-6.66	95.94	102.60
3	A1	268	U	O4'-C1'-N1	6.66	113.53	108.20
3	A1	1441	A	O5'-P-OP2	6.66	118.69	110.70
3	A1	1526	G	C2'-C3'-O3'	6.66	124.36	113.70
24	BA	26	C	N1-C2-N3	6.66	123.86	119.20
25	BB	114	U	C5-C4-O4	-6.66	121.90	125.90
25	BB	499	U	C3'-C2'-C1'	6.66	106.83	101.50
25	BB	1653	G	C6-C5-N7	6.66	134.40	130.40
25	BB	1860	G	C5-N7-C8	6.66	107.63	104.30
25	BB	2063	C	O4'-C4'-C3'	-6.66	97.34	104.00
25	BB	2324	U	C4'-C3'-C2'	-6.66	95.94	102.60
37	BN	113	ASP	CB-CG-OD1	6.66	124.30	118.30
51	B2	176	PHE	CG-CD2-CE2	-6.66	113.47	120.80
3	A1	517	G	C8-N9-C4	-6.66	103.74	106.40
3	A1	846	G	C6-N1-C2	-6.66	121.10	125.10
3	A1	1064	G	C8-N9-C4	-6.66	103.74	106.40
3	A1	1211	U	O4'-C1'-N1	6.66	113.53	108.20
25	BB	112	U	C2-N3-C4	-6.66	123.00	127.00
25	BB	122	G	C2-N3-C4	6.66	115.23	111.90
25	BB	168	G	C4-C5-C6	6.66	122.80	118.80
25	BB	477	A	N1-C6-N6	-6.66	114.60	118.60
25	BB	1042	G	C8-N9-C4	-6.66	103.74	106.40
25	BB	1218	G	C5-C6-N1	6.66	114.83	111.50
25	BB	1292	G	C6-N1-C2	-6.66	121.11	125.10
3	A1	710	G	N9-C4-C5	6.66	108.06	105.40
3	A1	1276	G	N7-C8-N9	6.66	116.43	113.10
25	BB	29	U	C2'-C3'-O3'	6.66	124.35	113.70
25	BB	697	G	N1-C6-O6	-6.66	115.91	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	701	G	P-O3'-C3'	6.66	127.69	119.70
25	BB	1583	A	C5-C6-N1	6.66	121.03	117.70
29	BF	73	ILE	C-N-CA	6.66	138.34	121.70
1	AA	37	G	N7-C8-N9	6.66	116.43	113.10
1	AA	59	U	P-O3'-C3'	6.66	127.69	119.70
3	A1	263	A	C4-C5-C6	-6.66	113.67	117.00
3	A1	317	U	N3-C2-O2	-6.66	117.54	122.20
3	A1	640	A	C4'-C3'-C2'	-6.66	95.94	102.60
3	A1	690	G	N7-C8-N9	-6.66	109.77	113.10
3	A1	1197	A	C4-C5-C6	-6.66	113.67	117.00
25	BB	15	G	C5'-C4'-O4'	6.66	117.09	109.10
25	BB	653	U	C4-C5-C6	6.66	123.69	119.70
25	BB	997	G	C6-C5-N7	6.66	134.39	130.40
25	BB	1030	C	C2'-C3'-O3'	6.66	124.35	113.70
25	BB	1685	C	N1-C2-N3	6.66	123.86	119.20
3	A1	754	C	N1-C2-N3	6.65	123.86	119.20
3	A1	986	U	O4'-C1'-N1	6.65	113.52	108.20
3	A1	1417	G	C6-C5-N7	6.65	134.39	130.40
9	AH	87	ARG	NH1-CZ-NH2	-6.65	112.08	119.40
25	BB	2435	A	C5-C6-N6	6.65	129.02	123.70
33	BJ	63	ARG	CA-CB-CG	6.65	128.04	113.40
3	A1	441	A	C6-N1-C2	-6.65	114.61	118.60
3	A1	451	A	C2-N3-C4	6.65	113.93	110.60
3	A1	924	C	C2-N3-C4	-6.65	116.57	119.90
3	A1	974	A	N1-C2-N3	-6.65	125.97	129.30
3	A1	1225	A	C5-C6-N6	6.65	129.02	123.70
3	A1	1499	A	C5-C6-N1	6.65	121.03	117.70
21	AV	5	PRO	C-N-CA	6.65	138.33	121.70
25	BB	564	C	P-O5'-C5'	6.65	131.54	120.90
25	BB	1057	A	C4'-C3'-C2'	-6.65	95.95	102.60
25	BB	1770	G	C6-C5-N7	6.65	134.39	130.40
25	BB	2139	U	N3-C4-O4	6.65	124.06	119.40
25	BB	2227	A	N3-C4-C5	-6.65	122.14	126.80
25	BB	2506	U	C2-N3-C4	6.65	130.99	127.00
25	BB	2818	U	C2-N3-C4	-6.65	123.01	127.00
1	AA	75	C	O5'-C5'-C4'	6.65	124.34	111.70
3	A1	901	A	O4'-C1'-N9	-6.65	102.88	108.20
3	A1	955	U	C5-C4-O4	-6.65	121.91	125.90
3	A1	1013	G	C5-C6-N1	6.65	114.83	111.50
3	A1	1093	A	C6-C5-N7	6.65	136.96	132.30
25	BB	821	A	C6-C5-N7	6.65	136.96	132.30
25	BB	2298	A	C6-C5-N7	6.65	136.96	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2473	U	C5-C4-O4	-6.65	121.91	125.90
25	BB	2605	U	O4'-C1'-N1	6.65	113.52	108.20
1	AP	71	G	N9-C4-C5	-6.65	102.74	105.40
3	A1	1347	G	C5'-C4'-C3'	-6.65	105.36	116.00
24	BA	22	U	N3-C2-O2	-6.65	117.55	122.20
25	BB	13	A	O4'-C1'-N9	6.65	113.52	108.20
25	BB	925	A	C6-C5-N7	6.65	136.95	132.30
25	BB	1264	A	N1-C2-N3	-6.65	125.97	129.30
25	BB	1471	G	C6-N1-C2	-6.65	121.11	125.10
25	BB	1821	A	C5-N7-C8	-6.65	100.58	103.90
25	BB	2045	C	C5-C6-N1	-6.65	117.67	121.00
25	BB	2532	G	N3-C4-N9	-6.65	122.01	126.00
3	A1	71	A	C6-N1-C2	-6.65	114.61	118.60
3	A1	407	U	N3-C2-O2	-6.65	117.55	122.20
3	A1	634	C	C5-C4-N4	6.65	124.85	120.20
3	A1	941	G	C4-C5-C6	-6.65	114.81	118.80
25	BB	212	G	N1-C2-N3	6.65	127.89	123.90
25	BB	434	U	C3'-C2'-C1'	6.65	106.82	101.50
25	BB	862	G	C4-C5-C6	-6.65	114.81	118.80
25	BB	874	G	N1-C6-O6	-6.65	115.91	119.90
25	BB	1323	C	N1-C2-O2	6.65	122.89	118.90
25	BB	2737	G	N3-C4-N9	6.65	129.99	126.00
25	BB	2830	C	C5-C4-N4	6.65	124.85	120.20
25	BB	2877	G	N7-C8-N9	6.65	116.42	113.10
50	B1	79	ARG	NH1-CZ-NH2	-6.65	112.09	119.40
53	B4	98	ASP	CB-CG-OD1	-6.65	112.32	118.30
25	BB	420	C	N1-C2-O2	6.65	122.89	118.90
25	BB	889	C	O4'-C1'-N1	6.65	113.52	108.20
25	BB	1616	A	C5-N7-C8	-6.65	100.58	103.90
25	BB	2194	U	C5'-C4'-O4'	6.65	117.08	109.10
25	BB	2436	G	C6-C5-N7	6.65	134.39	130.40
1	AE	31	A	C4-C5-C6	-6.64	113.68	117.00
3	A1	89	U	O4'-C1'-N1	6.64	113.52	108.20
3	A1	295	C	C5-C4-N4	-6.64	115.55	120.20
3	A1	792	A	C5'-C4'-O4'	-6.64	101.12	109.10
3	A1	1014	A	C5-N7-C8	6.64	107.22	103.90
24	BA	90	C	N3-C4-C5	6.64	124.56	121.90
25	BB	104	A	C6-C5-N7	6.64	136.95	132.30
25	BB	194	G	C5-N7-C8	6.64	107.62	104.30
25	BB	1039	A	C8-N9-C4	6.64	108.46	105.80
25	BB	1116	G	O4'-C1'-N9	6.64	113.52	108.20
25	BB	1420	A	N1-C2-N3	-6.64	125.98	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1463	C	N1-C2-O2	6.64	122.89	118.90
25	BB	1483	G	C8-N9-C4	-6.64	103.74	106.40
25	BB	1841	U	N1-C2-O2	6.64	127.45	122.80
25	BB	2279	G	C6-C5-N7	6.64	134.39	130.40
25	BB	2467	C	C4'-C3'-C2'	-6.64	95.96	102.60
25	BB	2481	G	N1-C2-N2	-6.64	110.22	116.20
25	BB	2584	U	C1'-O4'-C4'	-6.64	104.58	109.90
7	AF	86	ARG	CD-NE-CZ	6.64	132.90	123.60
25	BB	46	G	N9-C4-C5	6.64	108.06	105.40
25	BB	138	U	C6-N1-C2	-6.64	117.02	121.00
25	BB	197	A	O3'-P-O5'	6.64	116.62	104.00
25	BB	547	A	C6-C5-N7	6.64	136.95	132.30
25	BB	1420	A	N9-C4-C5	-6.64	103.14	105.80
25	BB	1471	G	C5-C6-N1	6.64	114.82	111.50
25	BB	1568	G	C5-C6-O6	6.64	132.59	128.60
25	BB	2201	G	N1-C6-O6	-6.64	115.91	119.90
25	BB	2346	A	C5-C6-N1	6.64	121.02	117.70
25	BB	2436	G	C5-C6-O6	-6.64	124.61	128.60
25	BB	2842	G	C2-N3-C4	-6.64	108.58	111.90
55	B6	12	LYS	N-CA-CB	-6.64	98.64	110.60
3	A1	78	A	C6-N1-C2	6.64	122.58	118.60
3	A1	118	U	C4-C5-C6	6.64	123.68	119.70
3	A1	437	U	C4'-C3'-C2'	-6.64	95.96	102.60
3	A1	449	G	C4-C5-N7	-6.64	108.14	110.80
3	A1	791	G	C5-C6-N1	6.64	114.82	111.50
3	A1	842	U	N3-C4-O4	6.64	124.05	119.40
25	BB	1406	U	N1-C1'-C2'	-6.64	104.69	112.00
25	BB	1936	A	C6-C5-N7	6.64	136.95	132.30
25	BB	1996	C	C3'-C2'-C1'	6.64	106.81	101.50
25	BB	2089	C	C3'-C2'-C1'	6.64	106.81	101.50
25	BB	2213	U	N3-C4-C5	6.64	118.58	114.60
25	BB	2375	G	C5-N7-C8	-6.64	100.98	104.30
25	BB	2435	A	N7-C8-N9	6.64	117.12	113.80
3	A1	117	G	O4'-C1'-N9	-6.64	102.89	108.20
3	A1	497	G	C5-C6-O6	6.64	132.58	128.60
3	A1	507	C	C4'-C3'-C2'	-6.64	95.96	102.60
3	A1	1514	G	N1-C2-N3	6.64	127.88	123.90
25	BB	99	U	N3-C2-O2	-6.64	117.55	122.20
25	BB	652	U	C4'-C3'-C2'	-6.64	95.96	102.60
25	BB	1171	G	C5-N7-C8	-6.64	100.98	104.30
25	BB	1371	G	C3'-C2'-C1'	-6.64	96.19	101.50
25	BB	1423	G	C1'-O4'-C4'	-6.64	104.59	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2071	A	C5-N7-C8	-6.64	100.58	103.90
25	BB	2204	G	N1-C2-N2	-6.64	110.22	116.20
25	BB	2644	G	N1-C6-O6	-6.64	115.92	119.90
3	A1	457	G	C5-C6-N1	6.64	114.82	111.50
3	A1	869	G	N9-C4-C5	-6.64	102.75	105.40
25	BB	1325	U	C1'-O4'-C4'	-6.64	104.59	109.90
25	BB	2195	U	C2-N3-C4	6.64	130.98	127.00
1	AP	49	C	N1-C2-O2	6.64	122.88	118.90
3	A1	125	U	C5'-C4'-O4'	6.64	117.06	109.10
3	A1	368	U	C4-C5-C6	6.64	123.68	119.70
3	A1	428	G	N1-C6-O6	-6.64	115.92	119.90
3	A1	507	C	N1-C2-O2	6.64	122.88	118.90
3	A1	522	C	C2-N3-C4	-6.64	116.58	119.90
3	A1	761	G	N3-C2-N2	-6.64	115.25	119.90
3	A1	1089	G	N3-C4-C5	-6.64	125.28	128.60
3	A1	1262	C	N1-C2-N3	6.64	123.85	119.20
3	A1	1353	G	O4'-C1'-N9	6.64	113.51	108.20
3	A1	1416	G	C6-N1-C2	-6.64	121.12	125.10
25	BB	55	G	C8-N9-C4	-6.64	103.75	106.40
25	BB	160	A	O4'-C1'-C2'	6.64	113.57	107.60
25	BB	525	U	C5'-C4'-O4'	6.64	117.06	109.10
25	BB	1187	G	C5-C6-N1	6.64	114.82	111.50
25	BB	2035	G	O4'-C4'-C3'	6.64	111.41	106.10
25	BB	2773	C	C1'-O4'-C4'	-6.64	104.59	109.90
42	BS	4	ASP	OD1-CG-OD2	-6.64	110.69	123.30
3	A1	180	U	C4-C5-C6	-6.63	115.72	119.70
3	A1	868	C	N1-C2-N3	-6.63	114.56	119.20
3	A1	1015	G	C5-N7-C8	-6.63	100.98	104.30
3	A1	1518	A	N1-C2-N3	6.63	132.62	129.30
24	BA	111	U	C6-N1-C2	-6.63	117.02	121.00
25	BB	184	C	N3-C4-N4	-6.63	113.36	118.00
25	BB	1263	U	C2-N3-C4	-6.63	123.02	127.00
25	BB	1271	G	N1-C6-O6	-6.63	115.92	119.90
25	BB	2451	A	C6-N1-C2	6.63	122.58	118.60
25	BB	2513	A	N9-C4-C5	6.63	108.45	105.80
25	BB	2693	G	C4-C5-N7	-6.63	108.15	110.80
3	A1	371	A	C5-C6-N6	6.63	129.01	123.70
3	A1	1417	G	O4'-C4'-C3'	6.63	111.41	106.10
16	AQ	36	PHE	CB-CG-CD1	-6.63	116.16	120.80
24	BA	108	A	C1'-O4'-C4'	6.63	115.21	109.90
25	BB	133	U	N3-C2-O2	-6.63	117.56	122.20
25	BB	1582	C	N3-C2-O2	-6.63	117.26	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2271	G	N3-C2-N2	-6.63	115.26	119.90
2	AM	9	U	N1-C2-O2	6.63	127.44	122.80
3	A1	216	U	N3-C2-O2	-6.63	117.56	122.20
3	A1	251	G	O4'-C1'-N9	6.63	113.51	108.20
3	A1	590	U	C5-C4-O4	-6.63	121.92	125.90
3	A1	1302	C	P-O3'-C3'	6.63	127.66	119.70
3	A1	1459	G	C5-C6-O6	6.63	132.58	128.60
3	A1	1529	G	C1'-O4'-C4'	-6.63	104.59	109.90
25	BB	480	A	C2-N3-C4	6.63	113.92	110.60
25	BB	681	G	N1-C2-N3	6.63	127.88	123.90
25	BB	879	G	C4-C5-N7	6.63	113.45	110.80
25	BB	992	C	O4'-C1'-C2'	-6.63	99.17	105.80
25	BB	1151	A	N3-C4-C5	-6.63	122.16	126.80
25	BB	1776	G	C5-C6-N1	6.63	114.82	111.50
25	BB	1855	U	C6-N1-C2	-6.63	117.02	121.00
25	BB	2494	G	C5-C6-N1	6.63	114.81	111.50
25	BB	2744	G	C8-N9-C4	-6.63	103.75	106.40
25	BB	2847	U	OP1-P-OP2	-6.63	109.65	119.60
3	A1	741	G	C3'-C2'-C1'	6.63	106.80	101.50
3	A1	1509	C	C4'-C3'-C2'	-6.63	95.97	102.60
25	BB	609	A	N1-C2-N3	6.63	132.62	129.30
25	BB	2734	A	N9-C4-C5	6.63	108.45	105.80
2	AM	15	U	O4'-C4'-C3'	-6.63	97.37	104.00
3	A1	79	G	O4'-C4'-C3'	-6.63	97.37	104.00
3	A1	85	U	C2-N3-C4	-6.63	123.02	127.00
3	A1	92	U	C5-C6-N1	-6.63	119.39	122.70
3	A1	449	G	O5'-C5'-C4'	-6.63	99.11	111.70
3	A1	731	G	C4-C5-C6	-6.63	114.82	118.80
3	A1	861	G	C5-C6-O6	6.63	132.58	128.60
3	A1	1020	G	C4'-C3'-C2'	-6.63	95.97	102.60
24	BA	70	C	C5-C6-N1	-6.63	117.69	121.00
25	BB	337	C	O4'-C4'-C3'	6.63	111.40	106.10
25	BB	1158	C	C2-N3-C4	-6.63	116.59	119.90
25	BB	1261	C	C1'-O4'-C4'	-6.63	104.60	109.90
25	BB	1324	G	N1-C2-N3	6.63	127.88	123.90
25	BB	1682	G	N1-C2-N3	6.63	127.88	123.90
25	BB	1978	A	C5-C6-N6	6.63	129.00	123.70
25	BB	2030	A	O5'-P-OP1	-6.63	99.73	105.70
25	BB	2252	G	C5'-C4'-C3'	-6.63	105.39	116.00
3	A1	766	A	C6-C5-N7	6.63	136.94	132.30
3	A1	1142	G	N9-C4-C5	6.63	108.05	105.40
3	A1	1220	G	C4-C5-C6	-6.63	114.82	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	13	G	N3-C4-N9	6.63	129.98	126.00
25	BB	128	C	N1-C1'-C2'	-6.63	104.71	112.00
25	BB	238	C	N3-C4-C5	6.63	124.55	121.90
25	BB	261	G	N3-C2-N2	-6.63	115.26	119.90
25	BB	534	U	N3-C2-O2	-6.63	117.56	122.20
25	BB	562	U	C2-N3-C4	-6.63	123.02	127.00
25	BB	713	G	C4'-C3'-C2'	-6.63	95.97	102.60
25	BB	881	G	C8-N9-C4	-6.63	103.75	106.40
25	BB	1133	A	C4-C5-N7	6.63	114.01	110.70
25	BB	2898	U	C5'-C4'-C3'	-6.63	105.40	116.00
1	AE	59	U	C5-C4-O4	6.62	129.88	125.90
3	A1	369	G	C5-C6-N1	-6.62	108.19	111.50
3	A1	1418	A	N3-C4-C5	-6.62	122.16	126.80
25	BB	1008	A	O4'-C1'-C2'	-6.62	99.17	105.80
25	BB	2443	C	C5-C4-N4	-6.62	115.56	120.20
1	AE	2	C	C3'-C2'-C1'	6.62	106.80	101.50
3	A1	108	G	N3-C4-N9	6.62	129.97	126.00
3	A1	1111	A	N1-C2-N3	-6.62	125.99	129.30
25	BB	913	U	O4'-C1'-N1	6.62	113.50	108.20
25	BB	999	U	C2-N3-C4	-6.62	123.03	127.00
25	BB	1292	G	C5-C6-O6	6.62	132.57	128.60
25	BB	1303	G	N3-C4-N9	6.62	129.97	126.00
25	BB	1315	C	C5'-C4'-C3'	-6.62	105.40	116.00
25	BB	1900	A	C4-C5-N7	6.62	114.01	110.70
25	BB	1987	A	C5-N7-C8	-6.62	100.59	103.90
25	BB	2747	G	C6-N1-C2	-6.62	121.13	125.10
1	AA	50	U	C5-C6-N1	-6.62	119.39	122.70
1	AP	15	G	N1-C2-N3	6.62	127.87	123.90
3	A1	894	G	C1'-O4'-C4'	-6.62	104.60	109.90
3	A1	1238	A	N9-C4-C5	6.62	108.45	105.80
3	A1	1357	A	C5'-C4'-O4'	6.62	117.05	109.10
3	A1	1414	U	C5-C4-O4	6.62	129.87	125.90
25	BB	285	G	C6-C5-N7	6.62	134.37	130.40
25	BB	465	G	O4'-C4'-C3'	-6.62	97.38	104.00
25	BB	481	G	N3-C2-N2	6.62	124.53	119.90
25	BB	1615	C	C6-N1-C2	-6.62	117.65	120.30
25	BB	2049	G	C6-N1-C2	-6.62	121.13	125.10
25	BB	2071	A	C8-N9-C4	-6.62	103.15	105.80
25	BB	2142	A	C5'-C4'-O4'	6.62	117.05	109.10
25	BB	2192	U	N3-C2-O2	-6.62	117.56	122.20
25	BB	2256	G	C4-C5-C6	-6.62	114.83	118.80
25	BB	2262	U	O4'-C4'-C3'	6.62	111.40	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2586	U	O4'-C4'-C3'	6.62	111.40	106.10
3	A1	1111	A	C2-N3-C4	6.62	113.91	110.60
3	A1	1170	A	C3'-C2'-C1'	6.62	106.80	101.50
25	BB	570	G	C8-N9-C4	-6.62	103.75	106.40
25	BB	2204	G	N1-C2-N3	6.62	127.87	123.90
25	BB	2217	G	N1-C6-O6	-6.62	115.93	119.90
25	BB	2288	A	C6-C5-N7	6.62	136.93	132.30
25	BB	2414	G	C4-C5-N7	-6.62	108.15	110.80
3	A1	535	A	C2-N3-C4	6.62	113.91	110.60
3	A1	580	C	O4'-C1'-C2'	-6.62	99.18	105.80
3	A1	771	G	N1-C2-N3	6.62	127.87	123.90
3	A1	898	G	C6-N1-C2	-6.62	121.13	125.10
25	BB	265	A	N7-C8-N9	6.62	117.11	113.80
25	BB	340	A	C5-N7-C8	6.62	107.21	103.90
25	BB	566	U	N1-C2-N3	6.62	118.87	114.90
25	BB	570	G	C3'-C2'-C1'	6.62	106.80	101.50
25	BB	611	C	N1-C2-O2	6.62	122.87	118.90
25	BB	873	C	N3-C4-C5	-6.62	119.25	121.90
25	BB	1192	G	C5-N7-C8	-6.62	100.99	104.30
25	BB	1589	U	N1-C2-N3	6.62	118.87	114.90
25	BB	2649	C	O4'-C1'-N1	-6.62	102.91	108.20
27	BD	80	ASP	OD1-CG-OD2	-6.62	110.72	123.30
48	BY	184	ARG	NE-CZ-NH1	6.62	123.61	120.30
3	A1	743	A	C5'-C4'-C3'	-6.62	105.41	116.00
3	A1	928	G	O4'-C1'-N9	6.62	113.49	108.20
25	BB	768	G	N3-C2-N2	-6.62	115.27	119.90
25	BB	1325	U	C4-C5-C6	6.62	123.67	119.70
25	BB	2460	U	C2-N3-C4	-6.62	123.03	127.00
35	BL	88	ARG	NE-CZ-NH2	6.62	123.61	120.30
1	AP	21	A	C5-C6-N6	6.62	128.99	123.70
1	AP	60	C	N3-C2-O2	-6.62	117.27	121.90
3	A1	1467	C	N1-C2-N3	6.62	123.83	119.20
25	BB	60	G	N1-C2-N2	-6.62	110.25	116.20
25	BB	261	G	C6-N1-C2	-6.62	121.13	125.10
25	BB	588	U	C4'-C3'-C2'	-6.62	95.98	102.60
25	BB	1170	C	N3-C4-N4	-6.62	113.37	118.00
25	BB	1182	G	C4-C5-N7	-6.62	108.15	110.80
25	BB	1630	A	N3-C4-N9	-6.62	122.11	127.40
25	BB	2094	A	C5'-C4'-C3'	-6.62	105.42	116.00
25	BB	2097	A	N1-C2-N3	-6.62	125.99	129.30
25	BB	2181	U	N1-C2-N3	6.62	118.87	114.90
25	BB	2476	A	C6-C5-N7	6.62	136.93	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2697	G	N1-C6-O6	-6.62	115.93	119.90
30	BG	102	PHE	CB-CG-CD2	6.62	125.43	120.80
3	A1	307	C	C2-N3-C4	-6.61	116.59	119.90
3	A1	1139	G	C5'-C4'-O4'	6.61	117.04	109.10
25	BB	619	G	C5-C6-N1	6.61	114.81	111.50
25	BB	1241	A	C5'-C4'-C3'	-6.61	105.42	116.00
25	BB	1253	A	OP1-P-OP2	-6.61	109.68	119.60
25	BB	1517	G	N1-C6-O6	-6.61	115.93	119.90
25	BB	1628	G	C2'-C3'-O3'	6.61	124.28	113.70
25	BB	1745	A	C6-C5-N7	6.61	136.93	132.30
25	BB	2122	U	N3-C4-C5	-6.61	110.63	114.60
25	BB	2408	U	O4'-C4'-C3'	6.61	111.39	106.10
1	AE	43	G	C2'-C3'-O3'	6.61	124.28	113.70
3	A1	1251	A	N3-C4-N9	-6.61	122.11	127.40
3	A1	1444	U	C5-C6-N1	-6.61	119.39	122.70
25	BB	1985	C	C5-C4-N4	6.61	124.83	120.20
25	BB	2827	C	N3-C2-O2	-6.61	117.27	121.90
1	AA	22	G	C4'-C3'-O3'	6.61	126.22	113.00
1	AP	10	G	C6-N1-C2	-6.61	121.13	125.10
1	AE	14	A	C2-N3-C4	6.61	113.91	110.60
3	A1	98	A	C4'-C3'-C2'	6.61	109.21	102.60
3	A1	187	G	C6-C5-N7	6.61	134.37	130.40
3	A1	421	U	C3'-C2'-C1'	6.61	106.79	101.50
3	A1	711	G	C5-C6-N1	6.61	114.81	111.50
3	A1	734	G	N3-C2-N2	-6.61	115.27	119.90
3	A1	892	A	C5'-C4'-O4'	6.61	117.03	109.10
3	A1	1313	U	C2-N3-C4	-6.61	123.03	127.00
25	BB	254	G	C8-N9-C4	-6.61	103.76	106.40
25	BB	879	G	P-O3'-C3'	6.61	127.63	119.70
25	BB	1580	A	P-O3'-C3'	6.61	127.63	119.70
25	BB	1582	C	N3-C4-C5	6.61	124.54	121.90
25	BB	1749	A	C5'-C4'-C3'	-6.61	105.42	116.00
25	BB	2264	C	N3-C4-C5	-6.61	119.25	121.90
25	BB	2426	A	C8-N9-C4	6.61	108.44	105.80
3	A1	7	A	C5-C6-N6	6.61	128.99	123.70
3	A1	9	G	O4'-C1'-N9	6.61	113.49	108.20
3	A1	1216	A	O4'-C1'-N9	6.61	113.49	108.20
3	A1	1278	G	O4'-C4'-C3'	6.61	111.39	106.10
25	BB	909	A	O4'-C1'-N9	6.61	113.49	108.20
25	BB	1446	C	C5'-C4'-O4'	6.61	117.03	109.10
25	BB	1831	G	C4'-C3'-C2'	-6.61	95.99	102.60
3	A1	53	A	N1-C6-N6	-6.61	114.64	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	116	A	C6-C5-N7	6.61	136.93	132.30
3	A1	178	C	C2-N3-C4	6.61	123.20	119.90
3	A1	200	G	C1'-O4'-C4'	-6.61	104.61	109.90
3	A1	1145	A	N7-C8-N9	6.61	117.10	113.80
3	A1	1271	A	N1-C6-N6	-6.61	114.64	118.60
3	A1	1314	C	C2-N3-C4	6.61	123.20	119.90
4	AB	13	VAL	CA-CB-CG2	-6.61	100.99	110.90
25	BB	141	G	C6-C5-N7	6.61	134.36	130.40
25	BB	913	U	C4'-C3'-C2'	-6.61	95.99	102.60
25	BB	949	G	N3-C2-N2	-6.61	115.27	119.90
25	BB	1041	G	N9-C4-C5	6.61	108.04	105.40
25	BB	2023	C	C4-C5-C6	6.61	120.70	117.40
25	BB	2101	A	C5-C6-N1	6.61	121.00	117.70
25	BB	2388	A	C5'-C4'-C3'	-6.61	105.43	116.00
50	B1	102	ARG	C-N-CA	6.61	136.18	122.30
3	A1	156	C	C5-C6-N1	-6.61	117.70	121.00
3	A1	266	G	C6-N1-C2	-6.61	121.14	125.10
3	A1	760	G	N3-C4-N9	-6.61	122.04	126.00
3	A1	1183	U	C2-N3-C4	-6.61	123.04	127.00
25	BB	271	G	N1-C6-O6	-6.61	115.94	119.90
25	BB	305	C	O4'-C1'-C2'	6.61	113.55	107.60
25	BB	681	G	C2-N3-C4	6.61	115.20	111.90
25	BB	860	U	C5'-C4'-O4'	6.61	117.03	109.10
25	BB	1916	A	N7-C8-N9	6.61	117.10	113.80
25	BB	2400	G	O4'-C4'-C3'	6.61	111.39	106.10
48	BY	118	PHE	CB-CG-CD1	-6.61	116.18	120.80
50	B1	127	GLU	C-N-CA	6.61	138.21	121.70
3	A1	741	G	C5'-C4'-O4'	6.60	117.03	109.10
3	A1	1276	G	C5-C6-N1	6.60	114.80	111.50
25	BB	349	U	N1-C2-O2	6.60	127.42	122.80
25	BB	372	G	N1-C2-N3	6.60	127.86	123.90
25	BB	1204	A	C4-C5-C6	-6.60	113.70	117.00
25	BB	1811	G	C8-N9-C4	-6.60	103.76	106.40
25	BB	2893	A	C2-N3-C4	6.60	113.90	110.60
1	AP	57	G	N7-C8-N9	6.60	116.40	113.10
3	A1	107	G	C8-N9-C4	-6.60	103.76	106.40
3	A1	353	A	C4-C5-N7	6.60	114.00	110.70
3	A1	1333	A	C4'-C3'-C2'	-6.60	96.00	102.60
3	A1	1500	A	C5-N7-C8	-6.60	100.60	103.90
25	BB	603	A	C8-N9-C4	6.60	108.44	105.80
25	BB	653	U	C5-C6-N1	-6.60	119.40	122.70
25	BB	974	G	N7-C8-N9	6.60	116.40	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1407	G	N9-C4-C5	6.60	108.04	105.40
25	BB	1739	A	C6-N1-C2	-6.60	114.64	118.60
25	BB	2367	G	N3-C2-N2	-6.60	115.28	119.90
25	BB	2488	G	N1-C2-N3	6.60	127.86	123.90
25	BB	2776	A	C4'-C3'-C2'	6.60	109.20	102.60
3	A1	438	U	N3-C4-C5	-6.60	110.64	114.60
3	A1	1088	G	C8-N9-C4	-6.60	103.76	106.40
24	BA	9	G	C8-N9-C1'	6.60	135.58	127.00
25	BB	835	C	C4'-C3'-C2'	-6.60	96.00	102.60
25	BB	912	C	C2'-C3'-O3'	6.60	124.26	113.70
25	BB	1218	G	N1-C6-O6	-6.60	115.94	119.90
25	BB	1638	C	P-O3'-C3'	6.60	127.62	119.70
3	A1	196	A	N1-C2-N3	-6.60	126.00	129.30
3	A1	396	C	C4-C5-C6	-6.60	114.10	117.40
3	A1	827	U	O4'-C4'-C3'	6.60	111.38	106.10
3	A1	1379	G	N7-C8-N9	6.60	116.40	113.10
25	BB	441	U	O3'-P-O5'	-6.60	91.46	104.00
25	BB	2434	A	C5'-C4'-O4'	6.60	117.02	109.10
3	A1	274	A	C5-C6-N6	6.60	128.98	123.70
3	A1	1493	A	C1'-O4'-C4'	-6.60	104.62	109.90
25	BB	181	A	C5-C6-N1	6.60	121.00	117.70
25	BB	405	U	N1-C1'-C2'	6.60	122.58	114.00
25	BB	483	A	N9-C1'-C2'	-6.60	104.74	112.00
25	BB	526	A	N9-C4-C5	-6.60	103.16	105.80
25	BB	648	G	N3-C2-N2	-6.60	115.28	119.90
25	BB	875	G	N7-C8-N9	6.60	116.40	113.10
25	BB	1200	C	N1-C2-N3	6.60	123.82	119.20
25	BB	2354	C	N3-C4-N4	-6.60	113.38	118.00
25	BB	2449	U	C1'-O4'-C4'	-6.60	104.62	109.90
25	BB	2460	U	C1'-O4'-C4'	6.60	115.18	109.90
25	BB	2810	A	C6-C5-N7	6.60	136.92	132.30
25	BB	2852	G	O3'-P-O5'	6.60	116.53	104.00
55	B6	96	ARG	NE-CZ-NH1	6.60	123.60	120.30
25	BB	504	A	N1-C6-N6	-6.60	114.64	118.60
25	BB	2666	C	C5'-C4'-O4'	6.60	117.02	109.10
3	A1	191	G	C5-C6-N1	6.59	114.80	111.50
3	A1	193	C	O4'-C1'-N1	6.59	113.48	108.20
3	A1	704	A	N9-C4-C5	6.59	108.44	105.80
3	A1	786	G	N3-C4-C5	-6.59	125.30	128.60
3	A1	867	G	C4-C5-N7	-6.59	108.16	110.80
3	A1	910	C	N3-C2-O2	-6.59	117.28	121.90
24	BA	36	C	N1-C2-N3	6.59	123.82	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	47	C	C5'-C4'-O4'	6.59	117.01	109.10
25	BB	81	G	C6-C5-N7	6.59	134.36	130.40
25	BB	257	C	N3-C4-N4	-6.59	113.38	118.00
25	BB	1171	G	C4-C5-C6	-6.59	114.84	118.80
25	BB	1471	G	O4'-C1'-N9	-6.59	102.92	108.20
25	BB	1660	G	C6-C5-N7	6.59	134.36	130.40
25	BB	1887	C	N3-C4-N4	-6.59	113.38	118.00
25	BB	2155	U	N3-C4-C5	-6.59	110.64	114.60
25	BB	2354	C	N3-C4-C5	6.59	124.54	121.90
25	BB	2370	G	P-O3'-C3'	6.59	127.61	119.70
25	BB	2378	A	C5-C6-N6	6.59	128.98	123.70
25	BB	2610	C	C6-N1-C2	-6.59	117.66	120.30
25	BB	2693	G	C5'-C4'-O4'	6.59	117.01	109.10
1	AA	55	U	N1-C2-N3	6.59	118.86	114.90
3	A1	336	A	C5-N7-C8	-6.59	100.60	103.90
3	A1	411	A	C1'-O4'-C4'	-6.59	104.63	109.90
3	A1	868	C	C4-C5-C6	-6.59	114.10	117.40
25	BB	346	A	O4'-C1'-N9	6.59	113.47	108.20
25	BB	347	A	N9-C4-C5	6.59	108.44	105.80
25	BB	1615	C	C5'-C4'-O4'	6.59	117.01	109.10
50	B1	104	ALA	O-C-N	-6.59	112.15	122.70
3	A1	177	G	C5-C6-N1	6.59	114.80	111.50
3	A1	388	G	C2-N3-C4	6.59	115.20	111.90
3	A1	400	C	O4'-C1'-N1	-6.59	102.93	108.20
3	A1	695	A	C6-N1-C2	-6.59	114.64	118.60
3	A1	1376	U	C3'-C2'-C1'	6.59	106.77	101.50
16	AQ	16	ARG	CD-NE-CZ	6.59	132.83	123.60
25	BB	541	A	C1'-O4'-C4'	-6.59	104.63	109.90
25	BB	870	U	N3-C2-O2	-6.59	117.59	122.20
25	BB	1025	G	O5'-P-OP2	-6.59	99.77	105.70
25	BB	1163	G	C5-C6-N1	6.59	114.80	111.50
25	BB	1432	G	C6-C5-N7	6.59	134.35	130.40
25	BB	1894	C	C1'-O4'-C4'	-6.59	104.63	109.90
25	BB	2476	A	C8-N9-C4	6.59	108.44	105.80
1	AE	38	A	N1-C2-N3	-6.59	126.00	129.30
3	A1	76	G	C5'-C4'-O4'	6.59	117.01	109.10
3	A1	230	G	C6-C5-N7	6.59	134.35	130.40
3	A1	510	A	C4-C5-N7	6.59	114.00	110.70
3	A1	693	G	C8-N9-C4	-6.59	103.76	106.40
3	A1	743	A	C6-N1-C2	-6.59	114.65	118.60
3	A1	827	U	C5-C4-O4	6.59	129.85	125.90
3	A1	846	G	C4-C5-N7	6.59	113.44	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	897	C	C5-C6-N1	-6.59	117.71	121.00
25	BB	178	G	N9-C1'-C2'	-6.59	104.75	112.00
25	BB	549	G	N9-C4-C5	-6.59	102.76	105.40
25	BB	599	A	C6-C5-N7	6.59	136.91	132.30
25	BB	731	C	O4'-C1'-N1	-6.59	102.93	108.20
25	BB	804	A	C5'-C4'-C3'	-6.59	105.45	116.00
25	BB	879	G	C8-N9-C4	-6.59	103.77	106.40
25	BB	1735	A	C8-N9-C4	-6.59	103.16	105.80
25	BB	1998	A	N9-C4-C5	6.59	108.44	105.80
25	BB	2612	C	C5-C4-N4	6.59	124.81	120.20
25	BB	2713	U	C5-C6-N1	-6.59	119.41	122.70
25	BB	2856	A	C6-C5-N7	6.59	136.91	132.30
42	BS	49	ARG	CD-NE-CZ	6.59	132.82	123.60
3	A1	255	G	N3-C2-N2	-6.59	115.29	119.90
3	A1	264	C	C5-C4-N4	6.59	124.81	120.20
3	A1	483	C	C2-N3-C4	-6.59	116.61	119.90
3	A1	718	A	C5-C6-N1	6.59	120.99	117.70
3	A1	1128	C	C5-C6-N1	6.59	124.29	121.00
25	BB	249	C	O4'-C1'-N1	6.59	113.47	108.20
25	BB	1287	A	N1-C2-N3	-6.59	126.01	129.30
25	BB	2405	G	C5-C6-O6	6.59	132.55	128.60
3	A1	19	A	C3'-C2'-C1'	-6.59	96.23	101.50
3	A1	214	C	C2-N3-C4	-6.59	116.61	119.90
3	A1	682	G	C6-N1-C2	-6.59	121.15	125.10
3	A1	758	C	C1'-O4'-C4'	-6.59	104.63	109.90
3	A1	1279	G	C5-C6-N1	6.59	114.79	111.50
17	AR	80	ARG	NE-CZ-NH1	6.59	123.59	120.30
25	BB	7	G	N3-C4-C5	-6.59	125.31	128.60
25	BB	705	A	O5'-C5'-C4'	6.59	124.21	111.70
25	BB	762	U	O4'-C1'-C2'	-6.59	99.21	105.80
25	BB	1015	U	C5-C4-O4	6.59	129.85	125.90
25	BB	1139	G	C4-C5-N7	-6.59	108.17	110.80
3	A1	749	A	N3-C4-C5	6.58	131.41	126.80
3	A1	823	C	C5'-C4'-O4'	6.58	117.00	109.10
25	BB	487	C	N3-C4-C5	6.58	124.53	121.90
25	BB	1682	G	C6-C5-N7	6.58	134.35	130.40
25	BB	2753	A	C6-C5-N7	6.58	136.91	132.30
25	BB	2760	C	N3-C2-O2	-6.58	117.29	121.90
3	A1	138	G	N3-C4-C5	-6.58	125.31	128.60
3	A1	295	C	O4'-C4'-C3'	6.58	111.37	106.10
3	A1	424	G	N1-C2-N2	-6.58	110.28	116.20
3	A1	427	U	O4'-C1'-C2'	-6.58	99.22	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	642	A	C6-C5-N7	6.58	136.91	132.30
3	A1	867	G	N9-C4-C5	6.58	108.03	105.40
3	A1	1227	A	O4'-C4'-C3'	6.58	111.37	106.10
3	A1	1256	A	O4'-C4'-C3'	6.58	111.37	106.10
3	A1	1377	A	C5-C6-N1	6.58	120.99	117.70
3	A1	1481	U	C4-C5-C6	6.58	123.65	119.70
3	A1	1492	A	P-O3'-C3'	6.58	127.60	119.70
24	BA	26	C	C2-N3-C4	-6.58	116.61	119.90
25	BB	140	C	C5-C6-N1	-6.58	117.71	121.00
25	BB	273	G	N3-C4-C5	-6.58	125.31	128.60
25	BB	567	U	C4-C5-C6	6.58	123.65	119.70
25	BB	862	G	O3'-P-O5'	6.58	116.51	104.00
25	BB	1119	U	N3-C2-O2	-6.58	117.59	122.20
25	BB	1967	C	C5-C6-N1	6.58	124.29	121.00
25	BB	1978	A	N9-C1'-C2'	-6.58	104.76	112.00
25	BB	2453	A	C8-N9-C4	-6.58	103.17	105.80
25	BB	2746	U	C4-C5-C6	6.58	123.65	119.70
1	AP	25	C	C2-N3-C4	-6.58	116.61	119.90
3	A1	94	G	N1-C2-N3	6.58	127.85	123.90
3	A1	457	G	C6-N1-C2	-6.58	121.15	125.10
3	A1	468	A	C5-C6-N1	6.58	120.99	117.70
3	A1	491	G	C5'-C4'-C3'	-6.58	105.47	116.00
3	A1	1435	G	C6-C5-N7	6.58	134.35	130.40
25	BB	154	U	C5-C4-O4	6.58	129.85	125.90
25	BB	268	C	O4'-C4'-C3'	6.58	111.36	106.10
25	BB	1656	C	C4'-C3'-C2'	-6.58	96.02	102.60
25	BB	1689	A	O4'-C1'-N9	6.58	113.47	108.20
25	BB	2010	G	N1-C2-N3	6.58	127.85	123.90
25	BB	2440	C	C5'-C4'-C3'	-6.58	105.47	116.00
25	BB	2648	G	C6-C5-N7	6.58	134.35	130.40
3	A1	212	G	C4'-C3'-C2'	-6.58	96.02	102.60
3	A1	1321	U	C2-N1-C1'	6.58	125.59	117.70
3	A1	1327	C	C2'-C3'-O3'	6.58	124.23	113.70
3	A1	1464	U	C4-C5-C6	6.58	123.65	119.70
3	A1	1508	A	C4-C5-N7	6.58	113.99	110.70
7	AF	42	VAL	CA-CB-CG1	6.58	120.77	110.90
25	BB	555	G	C2-N3-C4	6.58	115.19	111.90
25	BB	2632	A	C4-C5-C6	-6.58	113.71	117.00
3	A1	235	C	C2-N3-C4	-6.58	116.61	119.90
3	A1	904	U	N3-C4-C5	6.58	118.55	114.60
3	A1	920	U	N1-C2-O2	6.58	127.41	122.80
3	A1	1199	U	N1-C2-N3	6.58	118.85	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1207	G	N3-C4-N9	-6.58	122.05	126.00
9	AH	62	ARG	CD-NE-CZ	6.58	132.81	123.60
24	BA	36	C	N3-C2-O2	-6.58	117.30	121.90
24	BA	82	U	C3'-C2'-C1'	6.58	106.76	101.50
25	BB	242	G	N1-C6-O6	-6.58	115.95	119.90
25	BB	1331	G	N1-C6-O6	-6.58	115.95	119.90
25	BB	1410	G	N7-C8-N9	-6.58	109.81	113.10
48	BY	180	VAL	CA-CB-CG1	6.58	120.77	110.90
3	A1	331	G	C6-N1-C2	-6.58	121.15	125.10
25	BB	1021	A	C5-C6-N1	6.58	120.99	117.70
25	BB	1853	A	C5-N7-C8	-6.58	100.61	103.90
25	BB	2195	U	O4'-C1'-C2'	-6.58	99.22	105.80
3	A1	191	G	N1-C6-O6	-6.58	115.95	119.90
3	A1	665	A	O4'-C1'-N9	6.58	113.46	108.20
3	A1	804	U	N3-C2-O2	-6.58	117.60	122.20
3	A1	921	U	C6-N1-C2	-6.58	117.06	121.00
3	A1	923	A	C5-N7-C8	-6.58	100.61	103.90
3	A1	1329	A	O4'-C1'-N9	6.58	113.46	108.20
24	BA	67	G	N3-C4-C5	-6.58	125.31	128.60
25	BB	252	G	N1-C6-O6	-6.58	115.95	119.90
25	BB	426	C	O4'-C1'-N1	6.58	113.46	108.20
25	BB	1073	A	N7-C8-N9	6.58	117.09	113.80
25	BB	1377	G	C3'-C2'-C1'	6.58	106.76	101.50
25	BB	2059	A	C5-C6-N6	6.58	128.96	123.70
25	BB	2688	G	C5-C6-N1	6.58	114.79	111.50
3	A1	73	C	N1-C2-O2	6.57	122.84	118.90
3	A1	1401	G	N7-C8-N9	6.57	116.39	113.10
25	BB	124	G	C4-C5-C6	-6.57	114.86	118.80
25	BB	1288	G	N1-C6-O6	-6.57	115.95	119.90
25	BB	1318	U	N3-C4-C5	-6.57	110.66	114.60
25	BB	1477	A	C4'-C3'-C2'	-6.57	96.03	102.60
25	BB	1659	G	N3-C2-N2	6.57	124.50	119.90
25	BB	2277	G	C5'-C4'-O4'	6.57	116.99	109.10
25	BB	2529	G	C6-N1-C2	-6.57	121.16	125.10
25	BB	2597	G	N1-C2-N2	-6.57	110.28	116.20
3	A1	1532	U	N1-C2-N3	6.57	118.84	114.90
25	BB	701	G	C4-C5-C6	-6.57	114.86	118.80
25	BB	1343	G	O4'-C1'-N9	6.57	113.46	108.20
25	BB	2733	A	N3-C4-N9	-6.57	122.14	127.40
51	B2	82	TYR	CB-CG-CD2	-6.57	117.06	121.00
1	AA	34	G	C6-N1-C2	-6.57	121.16	125.10
3	A1	82	G	C5-N7-C8	-6.57	101.01	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	594	U	C1'-O4'-C4'	-6.57	104.64	109.90
3	A1	915	A	C5-N7-C8	-6.57	100.61	103.90
3	A1	917	G	N3-C4-N9	6.57	129.94	126.00
3	A1	1269	A	C6-C5-N7	6.57	136.90	132.30
3	A1	1458	G	N3-C2-N2	-6.57	115.30	119.90
3	A1	1529	G	C5'-C4'-O4'	6.57	116.98	109.10
24	BA	107	G	N1-C2-N3	6.57	127.84	123.90
25	BB	85	G	N3-C4-C5	-6.57	125.31	128.60
25	BB	809	G	N3-C4-N9	6.57	129.94	126.00
25	BB	1050	A	C2-N3-C4	6.57	113.89	110.60
25	BB	1228	G	N7-C8-N9	6.57	116.39	113.10
25	BB	1433	A	N9-C1'-C2'	-6.57	104.77	112.00
25	BB	1704	C	N3-C4-N4	-6.57	113.40	118.00
25	BB	1865	U	C6-N1-C2	6.57	124.94	121.00
25	BB	2108	A	C5-N7-C8	-6.57	100.61	103.90
25	BB	2196	C	N3-C2-O2	-6.57	117.30	121.90
25	BB	2392	A	C4-C5-C6	-6.57	113.72	117.00
25	BB	2538	C	C4-C5-C6	-6.57	114.11	117.40
25	BB	2628	C	C6-N1-C2	6.57	122.93	120.30
38	BO	101	THR	CA-CB-CG2	6.57	121.60	112.40
48	BY	72	GLY	C-N-CA	6.57	138.13	121.70
24	BA	67	G	N3-C4-N9	6.57	129.94	126.00
25	BB	855	G	N3-C4-C5	6.57	131.88	128.60
25	BB	1012	U	O4'-C1'-N1	6.57	113.45	108.20
25	BB	1522	A	C4'-C3'-C2'	-6.57	96.03	102.60
25	BB	2233	U	N1-C2-O2	-6.57	118.20	122.80
25	BB	2862	G	N1-C6-O6	-6.57	115.96	119.90
25	BB	2879	A	N3-C4-C5	6.57	131.40	126.80
1	AA	34	G	N9-C4-C5	-6.57	102.77	105.40
1	AA	40	C	O4'-C1'-N1	6.57	113.45	108.20
3	A1	465	A	N3-C4-C5	-6.57	122.20	126.80
3	A1	646	G	C8-N9-C4	-6.57	103.77	106.40
3	A1	913	A	C4-C5-C6	-6.57	113.72	117.00
3	A1	944	G	O4'-C1'-N9	-6.57	102.94	108.20
3	A1	1137	C	N3-C4-C5	6.57	124.53	121.90
17	AR	43	ARG	NE-CZ-NH1	6.57	123.58	120.30
25	BB	101	A	N1-C2-N3	-6.57	126.02	129.30
25	BB	304	U	N1-C2-N3	6.57	118.84	114.90
25	BB	436	C	N1-C2-N3	6.57	123.80	119.20
25	BB	776	G	N1-C2-N3	6.57	127.84	123.90
25	BB	899	A	N1-C6-N6	-6.57	114.66	118.60
25	BB	1727	C	C6-N1-C2	-6.57	117.67	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2161	C	N3-C4-C5	-6.57	119.27	121.90
1	AE	59	U	C5'-C4'-O4'	6.57	116.98	109.10
3	A1	1300	G	C5'-C4'-C3'	-6.57	105.50	116.00
25	BB	485	C	N3-C2-O2	-6.57	117.31	121.90
25	BB	1093	G	C6-C5-N7	6.57	134.34	130.40
25	BB	1487	U	C5'-C4'-C3'	-6.57	105.50	116.00
25	BB	1670	C	C2-N3-C4	-6.57	116.62	119.90
25	BB	2412	A	C5'-C4'-O4'	6.57	116.98	109.10
25	BB	2432	A	C4-C5-N7	6.57	113.98	110.70
53	B4	138	VAL	CA-CB-CG2	6.57	120.75	110.90
24	BA	48	U	O4'-C1'-N1	6.56	113.45	108.20
25	BB	1499	C	N3-C2-O2	-6.56	117.31	121.90
25	BB	1654	A	C5-C6-N6	6.56	128.95	123.70
35	BL	88	ARG	CD-NE-CZ	6.56	132.79	123.60
3	A1	794	A	C2-N3-C4	6.56	113.88	110.60
3	A1	912	C	C5'-C4'-O4'	6.56	116.98	109.10
3	A1	1118	U	C5-C6-N1	6.56	125.98	122.70
3	A1	1529	G	C3'-C2'-C1'	6.56	106.75	101.50
25	BB	75	G	C4-C5-N7	6.56	113.42	110.80
25	BB	287	G	C5-C6-N1	6.56	114.78	111.50
25	BB	616	A	C2-N3-C4	6.56	113.88	110.60
25	BB	881	G	N3-C4-N9	-6.56	122.06	126.00
25	BB	1226	A	N1-C2-N3	-6.56	126.02	129.30
25	BB	1341	G	C4-C5-C6	-6.56	114.86	118.80
25	BB	1382	G	C5'-C4'-C3'	-6.56	105.50	116.00
25	BB	1844	C	N3-C4-N4	6.56	122.59	118.00
3	A1	928	G	N1-C2-N2	6.56	122.10	116.20
4	AB	43	GLU	OE1-CD-OE2	-6.56	115.43	123.30
25	BB	1270	C	C2-N3-C4	-6.56	116.62	119.90
25	BB	2078	C	C5-C4-N4	6.56	124.79	120.20
25	BB	2311	A	C6-N1-C2	-6.56	114.66	118.60
25	BB	2457	U	N3-C2-O2	-6.56	117.61	122.20
25	BB	2473	U	O4'-C1'-N1	-6.56	102.95	108.20
3	A1	204	G	C4-C5-C6	-6.56	114.86	118.80
3	A1	247	G	C8-N9-C4	6.56	109.02	106.40
3	A1	350	G	O4'-C4'-C3'	6.56	111.35	106.10
3	A1	414	A	P-O3'-C3'	6.56	127.57	119.70
3	A1	602	A	C6-C5-N7	6.56	136.89	132.30
3	A1	752	G	O4'-C1'-N9	6.56	113.45	108.20
3	A1	853	C	C4'-C3'-C2'	-6.56	96.04	102.60
3	A1	866	C	N1-C2-O2	6.56	122.83	118.90
3	A1	893	C	N1-C2-O2	6.56	122.84	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1220	G	C3'-C2'-C1'	6.56	106.75	101.50
3	A1	1360	A	C5-N7-C8	-6.56	100.62	103.90
25	BB	90	U	N3-C4-O4	-6.56	114.81	119.40
25	BB	127	A	N3-C4-N9	6.56	132.65	127.40
25	BB	1128	G	C1'-O4'-C4'	-6.56	104.65	109.90
25	BB	1132	U	N3-C2-O2	-6.56	117.61	122.20
25	BB	1189	A	O4'-C1'-C2'	-6.56	99.24	105.80
25	BB	1727	C	C4-C5-C6	-6.56	114.12	117.40
25	BB	2273	A	C2-N3-C4	6.56	113.88	110.60
25	BB	2556	C	N3-C4-C5	6.56	124.52	121.90
25	BB	2581	G	C1'-O4'-C4'	6.56	115.15	109.90
1	AE	62	A	N1-C6-N6	-6.56	114.67	118.60
3	A1	541	G	N9-C4-C5	6.56	108.02	105.40
3	A1	716	A	C4-C5-N7	6.56	113.98	110.70
3	A1	801	U	C5'-C4'-C3'	-6.56	105.51	116.00
3	A1	951	G	C4-C5-C6	6.56	122.73	118.80
3	A1	1285	A	C2-N3-C4	6.56	113.88	110.60
3	A1	1507	A	N3-C4-N9	-6.56	122.16	127.40
3	A1	1511	G	C6-N1-C2	-6.56	121.17	125.10
11	AJ	76	ARG	NE-CZ-NH2	-6.56	117.02	120.30
25	BB	15	G	C3'-C2'-C1'	6.56	106.75	101.50
25	BB	565	C	C2-N3-C4	-6.56	116.62	119.90
25	BB	580	U	C2-N3-C4	-6.56	123.06	127.00
25	BB	657	U	C5'-C4'-O4'	-6.56	101.23	109.10
25	BB	824	U	C2-N3-C4	-6.56	123.07	127.00
25	BB	881	G	N1-C2-N2	-6.56	110.30	116.20
25	BB	1544	A	N9-C4-C5	-6.56	103.18	105.80
25	BB	1665	A	C1'-O4'-C4'	-6.56	104.65	109.90
25	BB	1700	A	N3-C4-C5	-6.56	122.21	126.80
25	BB	1838	C	C3'-C2'-C1'	-6.56	96.25	101.50
50	B1	191	ASP	CB-CG-OD1	6.56	124.20	118.30
3	A1	169	C	C5'-C4'-C3'	-6.56	105.51	116.00
3	A1	1106	G	N1-C6-O6	-6.56	115.97	119.90
25	BB	254	G	C5-C6-O6	6.56	132.53	128.60
25	BB	821	A	N9-C4-C5	6.56	108.42	105.80
25	BB	2695	U	N3-C4-O4	6.56	123.99	119.40
1	AP	66	A	C8-N9-C4	-6.55	103.18	105.80
2	AM	3	U	O4'-C1'-N1	6.55	113.44	108.20
3	A1	466	A	P-O3'-C3'	6.55	127.56	119.70
3	A1	755	G	C5-C6-N1	6.55	114.78	111.50
3	A1	1238	A	C4-C5-C6	-6.55	113.72	117.00
25	BB	42	A	N7-C8-N9	6.55	117.08	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	285	G	N7-C8-N9	6.55	116.38	113.10
25	BB	682	G	C5'-C4'-C3'	-6.55	105.51	116.00
25	BB	769	U	N3-C2-O2	-6.55	117.61	122.20
25	BB	1088	A	C6-N1-C2	-6.55	114.67	118.60
25	BB	1312	U	C6-N1-C2	-6.55	117.07	121.00
25	BB	1985	C	C4'-C3'-C2'	-6.55	96.05	102.60
39	BP	10	ARG	NH1-CZ-NH2	-6.55	112.19	119.40
24	BA	62	C	O5'-C5'-C4'	-6.55	99.25	111.70
25	BB	155	A	N9-C4-C5	-6.55	103.18	105.80
25	BB	562	U	N1-C2-N3	6.55	118.83	114.90
25	BB	2273	A	P-O3'-C3'	6.55	127.56	119.70
27	BD	100	PHE	CB-CG-CD1	6.55	125.39	120.80
3	A1	37	U	N1-C2-O2	6.55	127.39	122.80
3	A1	888	G	O4'-C1'-C2'	6.55	113.50	107.60
19	AT	48	ALA	N-CA-CB	-6.55	100.93	110.10
24	BA	78	A	O4'-C1'-C2'	6.55	113.50	107.60
25	BB	767	U	N1-C2-N3	6.55	118.83	114.90
25	BB	1031	G	C6-C5-N7	6.55	134.33	130.40
25	BB	1597	A	C6-C5-N7	6.55	136.89	132.30
25	BB	1646	C	N3-C2-O2	-6.55	117.31	121.90
25	BB	1853	A	N9-C4-C5	-6.55	103.18	105.80
25	BB	1879	C	N1-C1'-C2'	-6.55	104.79	112.00
3	A1	133	U	N1-C1'-C2'	-6.55	104.80	112.00
3	A1	236	A	C3'-C2'-C1'	6.55	106.74	101.50
3	A1	277	C	C2-N3-C4	-6.55	116.63	119.90
3	A1	421	U	C5-C4-O4	-6.55	121.97	125.90
3	A1	998	C	O4'-C1'-N1	-6.55	102.96	108.20
3	A1	1244	G	C1'-O4'-C4'	6.55	115.14	109.90
3	A1	1488	G	C4'-C3'-C2'	-6.55	96.05	102.60
18	AS	19	ARG	NH1-CZ-NH2	-6.55	112.20	119.40
24	BA	16	G	C4-C5-N7	-6.55	108.18	110.80
25	BB	822	G	N1-C2-N3	6.55	127.83	123.90
25	BB	1905	C	N1-C2-N3	6.55	123.78	119.20
25	BB	1951	U	C5-C6-N1	-6.55	119.42	122.70
25	BB	2036	C	N3-C4-C5	6.55	124.52	121.90
25	BB	2142	A	C6-C5-N7	6.55	136.88	132.30
25	BB	2336	A	C5-C6-N1	6.55	120.97	117.70
3	A1	609	A	O4'-C4'-C3'	6.55	111.34	106.10
3	A1	807	A	C6-N1-C2	-6.55	114.67	118.60
25	BB	721	A	N3-C4-C5	-6.55	122.22	126.80
25	BB	1056	G	C5'-C4'-O4'	6.55	116.96	109.10
25	BB	1427	A	C4-C5-N7	6.55	113.97	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1779	U	C5-C6-N1	-6.55	119.43	122.70
25	BB	1781	U	N3-C2-O2	-6.55	117.62	122.20
25	BB	2217	G	N9-C4-C5	-6.55	102.78	105.40
25	BB	2398	U	N3-C4-O4	-6.55	114.82	119.40
25	BB	2613	U	C6-N1-C2	-6.55	117.07	121.00
25	BB	2828	G	C5-N7-C8	6.55	107.57	104.30
3	A1	334	C	N3-C2-O2	-6.55	117.32	121.90
3	A1	1454	G	C6-N1-C2	6.55	129.03	125.10
25	BB	1243	C	N3-C4-N4	-6.55	113.42	118.00
25	BB	1266	G	C4-C5-C6	-6.55	114.87	118.80
25	BB	1734	G	C4-C5-N7	6.55	113.42	110.80
25	BB	2445	G	C4-C5-C6	-6.55	114.87	118.80
1	AA	47	U	O5'-C5'-C4'	6.54	124.14	111.70
1	AP	60	C	N3-C4-N4	-6.54	113.42	118.00
3	A1	482	A	C5-C6-N6	6.54	128.94	123.70
25	BB	312	G	N7-C8-N9	6.54	116.37	113.10
25	BB	316	C	C5-C6-N1	-6.54	117.73	121.00
25	BB	2697	G	N3-C4-N9	6.54	129.93	126.00
3	A1	686	U	C3'-C2'-C1'	-6.54	96.27	101.50
25	BB	865	C	N3-C2-O2	-6.54	117.32	121.90
25	BB	966	G	N3-C2-N2	-6.54	115.32	119.90
25	BB	1300	G	C6-N1-C2	-6.54	121.17	125.10
25	BB	1334	G	N3-C2-N2	-6.54	115.32	119.90
25	BB	1717	A	C1'-O4'-C4'	-6.54	104.67	109.90
25	BB	2192	U	N1-C2-N3	6.54	118.83	114.90
25	BB	2211	A	C5-C6-N6	6.54	128.94	123.70
37	BN	135	PRO	CA-N-CD	-6.54	102.34	111.50
50	B1	61	ARG	NH1-CZ-NH2	-6.54	112.20	119.40
1	AA	74	C	O4'-C4'-C3'	6.54	111.33	106.10
3	A1	63	C	C1'-O4'-C4'	-6.54	104.67	109.90
3	A1	1229	A	C5-C6-N1	6.54	120.97	117.70
3	A1	1397	C	C4-C5-C6	6.54	120.67	117.40
24	BA	73	A	N3-C4-N9	6.54	132.63	127.40
25	BB	731	C	N1-C1'-C2'	6.54	122.50	114.00
25	BB	825	A	C4'-C3'-C2'	-6.54	96.06	102.60
25	BB	1443	U	C6-N1-C2	-6.54	117.08	121.00
25	BB	1546	G	C3'-C2'-C1'	6.54	106.73	101.50
25	BB	1654	A	C4'-C3'-C2'	-6.54	96.06	102.60
25	BB	1733	G	C4-C5-C6	-6.54	114.88	118.80
25	BB	1766	G	C3'-C2'-C1'	6.54	106.73	101.50
25	BB	1830	C	C3'-C2'-C1'	6.54	106.73	101.50
25	BB	2191	A	C2-N3-C4	6.54	113.87	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2627	G	C4-C5-N7	6.54	113.42	110.80
25	BB	2895	G	N1-C2-N2	6.54	122.09	116.20
1	AA	74	C	N1-C2-O2	-6.54	114.98	118.90
3	A1	1531	A	C4-C5-C6	-6.54	113.73	117.00
25	BB	1646	C	C4'-C3'-C2'	-6.54	96.06	102.60
25	BB	2872	A	O4'-C1'-C2'	6.54	113.49	107.60
3	A1	67	C	C5-C6-N1	-6.54	117.73	121.00
3	A1	516	U	C5'-C4'-O4'	6.54	116.95	109.10
3	A1	595	A	C8-N9-C4	-6.54	103.19	105.80
3	A1	1125	U	C5-C6-N1	-6.54	119.43	122.70
25	BB	215	G	N1-C6-O6	-6.54	115.98	119.90
25	BB	1067	A	N1-C2-N3	-6.54	126.03	129.30
25	BB	1542	U	C2-N3-C4	-6.54	123.08	127.00
25	BB	1550	C	C4-C5-C6	6.54	120.67	117.40
25	BB	1673	G	C6-C5-N7	-6.54	126.48	130.40
25	BB	1687	G	N9-C1'-C2'	6.54	122.50	114.00
25	BB	1811	G	C3'-C2'-C1'	6.54	106.73	101.50
25	BB	2230	G	N1-C2-N2	-6.54	110.32	116.20
25	BB	2714	G	C4-C5-C6	-6.54	114.88	118.80
25	BB	2721	A	C4-C5-C6	-6.54	113.73	117.00
25	BB	2824	C	O3'-P-O5'	-6.54	91.58	104.00
3	A1	374	A	C5-C6-N6	6.54	128.93	123.70
3	A1	849	G	C1'-O4'-C4'	6.54	115.13	109.90
3	A1	1135	U	O4'-C1'-N1	6.54	113.43	108.20
25	BB	257	C	N1-C2-O2	6.54	122.82	118.90
25	BB	1139	G	C1'-O4'-C4'	-6.54	104.67	109.90
25	BB	2339	C	C5-C6-N1	-6.54	117.73	121.00
28	BE	69	ARG	NH1-CZ-NH2	-6.54	112.21	119.40
1	AA	63	C	N1-C2-N3	6.54	123.77	119.20
3	A1	705	G	C2-N3-C4	-6.54	108.63	111.90
12	AK	63	TYR	CB-CG-CD1	6.54	124.92	121.00
25	BB	191	A	N3-C4-C5	-6.54	122.22	126.80
25	BB	314	C	C5-C6-N1	-6.54	117.73	121.00
25	BB	2682	A	C4'-C3'-C2'	-6.54	96.06	102.60
55	B6	74	TYR	CB-CG-CD1	6.54	124.92	121.00
3	A1	113	G	N9-C1'-C2'	-6.53	104.81	112.00
3	A1	129	A	C5'-C4'-O4'	6.53	116.94	109.10
3	A1	262	A	C5-C6-N1	6.53	120.97	117.70
3	A1	362	G	C8-N9-C4	-6.53	103.79	106.40
3	A1	1220	G	C6-N1-C2	-6.53	121.18	125.10
3	A1	1274	A	C6-C5-N7	6.53	136.87	132.30
25	BB	1439	A	N9-C4-C5	6.53	108.41	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1551	A	C4-C5-C6	-6.53	113.73	117.00
25	BB	1578	U	O4'-C1'-N1	6.53	113.43	108.20
25	BB	2070	A	C1'-O4'-C4'	-6.53	104.67	109.90
25	BB	2445	G	C5'-C4'-O4'	6.53	116.94	109.10
25	BB	2875	C	C5-C6-N1	-6.53	117.73	121.00
3	A1	1022	A	P-O3'-C3'	6.53	127.54	119.70
3	A1	1287	A	C8-N9-C4	-6.53	103.19	105.80
25	BB	60	G	C1'-O4'-C4'	-6.53	104.67	109.90
25	BB	744	U	N1-C1'-C2'	-6.53	104.81	112.00
25	BB	814	C	C1'-O4'-C4'	-6.53	104.67	109.90
25	BB	1247	A	C2-N3-C4	6.53	113.87	110.60
1	AP	71	G	N3-C4-N9	6.53	129.92	126.00
3	A1	248	C	N3-C2-O2	-6.53	117.33	121.90
3	A1	348	G	C5-C6-N1	6.53	114.77	111.50
3	A1	818	G	C6-C5-N7	6.53	134.32	130.40
3	A1	1520	C	N1-C2-N3	6.53	123.77	119.20
25	BB	398	C	C5-C6-N1	6.53	124.27	121.00
25	BB	538	A	C5'-C4'-O4'	6.53	116.94	109.10
25	BB	968	C	O4'-C1'-N1	6.53	113.42	108.20
25	BB	1368	G	N9-C1'-C2'	6.53	122.49	114.00
25	BB	1766	G	N3-C2-N2	6.53	124.47	119.90
25	BB	2188	U	N3-C4-O4	-6.53	114.83	119.40
25	BB	2200	C	C2-N3-C4	-6.53	116.63	119.90
25	BB	2418	A	C5-C6-N6	6.53	128.93	123.70
25	BB	2757	A	C5'-C4'-O4'	6.53	116.94	109.10
25	BB	1614	A	C4-C5-C6	-6.53	113.73	117.00
25	BB	2862	G	N3-C4-N9	6.53	129.92	126.00
51	B2	50	ASP	CB-CG-OD1	6.53	124.18	118.30
1	AE	62	A	O4'-C1'-N9	6.53	113.42	108.20
3	A1	437	U	N1-C2-N3	6.53	118.82	114.90
3	A1	720	C	C4-C5-C6	6.53	120.66	117.40
3	A1	1177	G	C5'-C4'-C3'	-6.53	105.56	116.00
3	A1	1209	C	C5-C6-N1	-6.53	117.74	121.00
25	BB	447	A	N9-C4-C5	6.53	108.41	105.80
25	BB	989	G	N1-C2-N3	6.53	127.82	123.90
25	BB	1614	A	N1-C2-N3	-6.53	126.04	129.30
25	BB	2136	G	N1-C6-O6	6.53	123.82	119.90
25	BB	2176	A	C5'-C4'-O4'	6.53	116.93	109.10
25	BB	2493	U	N1-C2-O2	6.53	127.37	122.80
25	BB	2614	A	C8-N9-C4	6.53	108.41	105.80
1	AA	50	U	C5'-C4'-C3'	-6.53	105.56	116.00
1	AP	13	C	C5-C6-N1	6.53	124.26	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	61	G	C1'-O4'-C4'	-6.53	104.68	109.90
3	A1	298	A	C5-C6-N1	6.53	120.96	117.70
3	A1	389	A	O4'-C1'-N9	6.53	113.42	108.20
3	A1	1207	G	N9-C4-C5	6.53	108.01	105.40
3	A1	1310	G	C5-C6-O6	6.53	132.52	128.60
3	A1	1365	G	N7-C8-N9	6.53	116.36	113.10
3	A1	1466	C	N3-C4-C5	6.53	124.51	121.90
3	A1	1532	U	O4'-C1'-N1	6.53	113.42	108.20
18	AS	28	ARG	CD-NE-CZ	6.53	132.74	123.60
25	BB	46	G	O4'-C4'-C3'	6.53	111.32	106.10
25	BB	67	U	C4-C5-C6	6.53	123.62	119.70
25	BB	255	A	O4'-C1'-N9	6.53	113.42	108.20
25	BB	379	G	C5-C6-O6	6.53	132.51	128.60
25	BB	996	A	N3-C4-C5	6.53	131.37	126.80
25	BB	1367	A	C4-C5-N7	6.53	113.96	110.70
25	BB	1646	C	C5'-C4'-C3'	-6.53	105.56	116.00
25	BB	1963	U	O5'-C5'-C4'	-6.53	99.30	111.70
25	BB	1972	G	N3-C2-N2	-6.53	115.33	119.90
25	BB	2127	G	N3-C2-N2	-6.53	115.33	119.90
25	BB	2133	G	N1-C2-N3	6.53	127.81	123.90
3	A1	1153	G	N7-C8-N9	6.52	116.36	113.10
9	AH	71	ARG	CD-NE-CZ	6.52	132.73	123.60
10	AI	17	TYR	CG-CD1-CE1	-6.52	116.08	121.30
25	BB	703	U	C5'-C4'-C3'	-6.52	105.56	116.00
25	BB	1223	G	C5-N7-C8	-6.52	101.04	104.30
25	BB	1242	U	C6-N1-C2	-6.52	117.09	121.00
25	BB	2204	G	N1-C6-O6	-6.52	115.98	119.90
25	BB	2620	C	C4'-C3'-O3'	6.52	126.05	113.00
25	BB	2822	G	C4-C5-N7	-6.52	108.19	110.80
25	BB	2835	A	O4'-C1'-N9	6.52	113.42	108.20
3	A1	28	A	C5-N7-C8	6.52	107.16	103.90
3	A1	201	G	C1'-O4'-C4'	-6.52	104.68	109.90
3	A1	265	G	N9-C4-C5	-6.52	102.79	105.40
3	A1	692	U	N3-C4-O4	-6.52	114.83	119.40
3	A1	702	A	N1-C6-N6	-6.52	114.69	118.60
3	A1	1369	C	N3-C4-N4	-6.52	113.43	118.00
21	AV	5	PRO	O-C-N	-6.52	112.27	122.70
25	BB	239	C	C5-C6-N1	-6.52	117.74	121.00
25	BB	678	C	O4'-C1'-N1	6.52	113.42	108.20
25	BB	1123	C	N3-C4-N4	-6.52	113.44	118.00
25	BB	1181	U	N1-C2-N3	6.52	118.81	114.90
25	BB	1237	A	N9-C1'-C2'	-6.52	104.83	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1271	G	C4-C5-C6	-6.52	114.89	118.80
25	BB	1473	G	C8-N9-C4	-6.52	103.79	106.40
25	BB	1594	U	N3-C2-O2	-6.52	117.64	122.20
25	BB	1758	U	N3-C4-C5	6.52	118.51	114.60
25	BB	1861	G	N3-C4-C5	-6.52	125.34	128.60
25	BB	1975	G	N1-C2-N2	-6.52	110.33	116.20
25	BB	1987	A	N1-C2-N3	-6.52	126.04	129.30
25	BB	2026	U	C4-C5-C6	6.52	123.61	119.70
25	BB	2088	A	N3-C4-C5	6.52	131.37	126.80
25	BB	2379	G	C5-C6-N1	6.52	114.76	111.50
25	BB	2393	U	C5'-C4'-C3'	-6.52	105.56	116.00
25	BB	2531	A	O4'-C1'-N9	6.52	113.42	108.20
25	BB	2729	G	C4-C5-C6	-6.52	114.89	118.80
3	A1	163	C	O4'-C1'-C2'	6.52	113.47	107.60
3	A1	447	G	C2-N3-C4	6.52	115.16	111.90
3	A1	470	C	C5-C6-N1	-6.52	117.74	121.00
3	A1	482	A	C6-C5-N7	6.52	136.87	132.30
3	A1	1473	G	N1-C6-O6	-6.52	115.99	119.90
5	AC	71	ASP	CB-CG-OD1	6.52	124.17	118.30
25	BB	867	C	P-O3'-C3'	6.52	127.53	119.70
25	BB	1161	C	O3'-P-O5'	-6.52	91.61	104.00
25	BB	1479	G	N3-C4-N9	6.52	129.91	126.00
25	BB	2724	U	N1-C1'-C2'	-6.52	104.83	112.00
1	AE	11	C	N3-C2-O2	-6.52	117.34	121.90
1	AE	37	G	C1'-O4'-C4'	-6.52	104.68	109.90
3	A1	1465	A	N1-C6-N6	-6.52	114.69	118.60
3	A1	1478	U	C4-C5-C6	6.52	123.61	119.70
24	BA	49	C	N3-C4-N4	-6.52	113.44	118.00
25	BB	278	A	C3'-C2'-C1'	-6.52	96.28	101.50
25	BB	724	U	N3-C2-O2	-6.52	117.64	122.20
25	BB	736	C	N1-C2-O2	6.52	122.81	118.90
25	BB	849	A	O4'-C1'-N9	6.52	113.42	108.20
25	BB	1232	G	P-O3'-C3'	6.52	127.52	119.70
25	BB	2174	C	N3-C4-C5	6.52	124.51	121.90
25	BB	2508	G	N3-C2-N2	-6.52	115.34	119.90
25	BB	2511	U	C3'-C2'-C1'	-6.52	96.28	101.50
29	BF	38	ARG	NE-CZ-NH1	6.52	123.56	120.30
3	A1	61	G	N3-C2-N2	-6.52	115.34	119.90
3	A1	254	G	O4'-C1'-N9	6.52	113.42	108.20
3	A1	372	C	C5'-C4'-C3'	6.52	126.43	116.00
3	A1	463	U	C1'-O4'-C4'	-6.52	104.69	109.90
3	A1	607	A	N1-C2-N3	-6.52	126.04	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	858	G	N7-C8-N9	6.52	116.36	113.10
3	A1	1476	A	P-O3'-C3'	6.52	127.52	119.70
24	BA	93	C	C4-C5-C6	-6.52	114.14	117.40
25	BB	47	C	N3-C4-C5	-6.52	119.29	121.90
25	BB	782	A	C2-N3-C4	6.52	113.86	110.60
25	BB	961	C	C5'-C4'-O4'	6.52	116.92	109.10
25	BB	1250	G	N1-C2-N2	6.52	122.07	116.20
25	BB	1873	G	N3-C4-C5	-6.52	125.34	128.60
25	BB	2584	U	O4'-C4'-C3'	6.52	111.31	106.10
25	BB	2671	G	C4-C5-N7	-6.52	108.19	110.80
51	B2	111	ARG	NH1-CZ-NH2	-6.52	112.23	119.40
3	A1	769	G	N1-C2-N3	6.52	127.81	123.90
3	A1	861	G	C4-C5-C6	-6.52	114.89	118.80
3	A1	1445	U	N1-C2-N3	6.52	118.81	114.90
25	BB	1724	G	P-O3'-C3'	6.52	127.52	119.70
25	BB	1871	A	C4-C5-C6	-6.52	113.74	117.00
29	BF	91	TYR	CB-CG-CD2	-6.52	117.09	121.00
3	A1	422	C	O4'-C1'-N1	6.51	113.41	108.20
3	A1	517	G	N9-C4-C5	6.51	108.01	105.40
3	A1	641	U	C6-N1-C2	-6.51	117.09	121.00
3	A1	890	G	N1-C6-O6	-6.51	115.99	119.90
3	A1	1184	G	N1-C2-N3	6.51	127.81	123.90
3	A1	1214	C	N1-C2-O2	6.51	122.81	118.90
3	A1	1333	A	C1'-O4'-C4'	-6.51	104.69	109.90
3	A1	1406	U	C4-C5-C6	6.51	123.61	119.70
3	A1	1408	A	O5'-C5'-C4'	6.51	124.08	111.70
3	A1	1507	A	N9-C4-C5	6.51	108.41	105.80
25	BB	274	C	N1-C2-O2	6.51	122.81	118.90
25	BB	455	C	N3-C2-O2	-6.51	117.34	121.90
25	BB	775	G	O3'-P-O5'	-6.51	91.62	104.00
25	BB	882	G	N7-C8-N9	6.51	116.36	113.10
25	BB	1166	G	N1-C6-O6	-6.51	115.99	119.90
25	BB	1704	C	C3'-C2'-C1'	6.51	106.71	101.50
25	BB	1732	C	N3-C4-N4	-6.51	113.44	118.00
25	BB	1795	C	N3-C2-O2	-6.51	117.34	121.90
25	BB	2087	G	C4-C5-N7	6.51	113.41	110.80
52	B3	152	ARG	CD-NE-CZ	6.51	132.72	123.60
3	A1	126	G	N7-C8-N9	6.51	116.36	113.10
3	A1	807	A	C4-C5-C6	-6.51	113.74	117.00
25	BB	1717	A	C8-N9-C4	6.51	108.41	105.80
1	AP	70	C	N1-C2-O2	6.51	122.81	118.90
3	A1	415	A	C5-C6-N6	6.51	128.91	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	891	U	O4'-C4'-C3'	6.51	111.31	106.10
3	A1	1270	G	N1-C2-N2	-6.51	110.34	116.20
7	AF	85	TYR	CG-CD2-CE2	6.51	126.51	121.30
25	BB	180	G	C6-C5-N7	6.51	134.31	130.40
25	BB	1391	U	C5-C6-N1	-6.51	119.44	122.70
25	BB	1744	A	O4'-C1'-N9	6.51	113.41	108.20
25	BB	2421	G	N3-C4-N9	6.51	129.91	126.00
25	BB	2513	A	N1-C2-N3	6.51	132.56	129.30
25	BB	2609	U	N3-C4-O4	6.51	123.96	119.40
34	BK	13	ARG	CD-NE-CZ	6.51	132.72	123.60
1	AP	3	G	C4'-C3'-C2'	-6.51	96.09	102.60
3	A1	723	U	C4-C5-C6	6.51	123.61	119.70
3	A1	812	G	C5'-C4'-O4'	6.51	116.91	109.10
3	A1	1295	U	N3-C4-O4	-6.51	114.84	119.40
25	BB	519	U	N1-C2-O2	-6.51	118.24	122.80
25	BB	1242	U	N3-C4-C5	6.51	118.50	114.60
25	BB	1286	A	C5-C6-N1	6.51	120.95	117.70
25	BB	1345	C	C6-N1-C2	-6.51	117.70	120.30
25	BB	1679	A	N3-C4-C5	6.51	131.36	126.80
25	BB	1785	A	C4-C5-C6	-6.51	113.75	117.00
25	BB	2336	A	N7-C8-N9	-6.51	110.55	113.80
25	BB	2565	A	N7-C8-N9	6.51	117.06	113.80
25	BB	2567	G	C6-N1-C2	-6.51	121.19	125.10
3	A1	36	C	N1-C1'-C2'	-6.51	104.84	112.00
3	A1	416	G	N1-C6-O6	-6.51	116.00	119.90
3	A1	936	C	C3'-C2'-C1'	6.51	106.71	101.50
25	BB	169	G	C5-N7-C8	-6.51	101.05	104.30
25	BB	1225	G	C8-N9-C4	-6.51	103.80	106.40
25	BB	1274	A	C1'-O4'-C4'	-6.51	104.69	109.90
25	BB	2041	U	N1-C2-N3	6.51	118.81	114.90
32	BI	108	ARG	CD-NE-CZ	6.51	132.71	123.60
1	AA	19	G	N1-C6-O6	-6.51	116.00	119.90
3	A1	184	G	N7-C8-N9	6.51	116.35	113.10
3	A1	421	U	C5-C6-N1	-6.51	119.45	122.70
3	A1	554	A	O4'-C1'-N9	6.51	113.41	108.20
3	A1	738	C	N3-C4-C5	6.51	124.50	121.90
3	A1	1057	G	C8-N9-C4	-6.51	103.80	106.40
3	A1	1200	C	N1-C2-N3	6.51	123.75	119.20
3	A1	1396	A	C5-N7-C8	-6.51	100.65	103.90
17	AR	183	ARG	CD-NE-CZ	6.51	132.71	123.60
25	BB	338	G	C5-C6-N1	6.51	114.75	111.50
25	BB	751	A	C4-C5-C6	-6.51	113.75	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1102	C	N3-C2-O2	-6.51	117.35	121.90
25	BB	1601	G	C4-C5-C6	-6.51	114.90	118.80
25	BB	1654	A	C5'-C4'-O4'	-6.51	101.29	109.10
25	BB	1914	C	C5'-C4'-O4'	6.51	116.91	109.10
25	BB	2043	C	C5-C4-N4	6.51	124.75	120.20
25	BB	2640	G	N1-C2-N3	6.51	127.80	123.90
25	BB	2716	C	C5-C4-N4	6.51	124.75	120.20
1	AA	36	A	C5-C6-N6	6.50	128.90	123.70
3	A1	726	C	N1-C1'-C2'	6.50	122.46	114.00
3	A1	928	G	N3-C4-N9	6.50	129.90	126.00
24	BA	9	G	O4'-C1'-N9	6.50	113.40	108.20
25	BB	194	G	C2-N3-C4	6.50	115.15	111.90
25	BB	1549	A	C8-N9-C4	-6.50	103.20	105.80
25	BB	2887	A	N1-C2-N3	-6.50	126.05	129.30
1	AP	8	U	C1'-O4'-C4'	-6.50	104.70	109.90
3	A1	536	C	O4'-C1'-N1	-6.50	103.00	108.20
3	A1	1077	G	C8-N9-C4	-6.50	103.80	106.40
24	BA	21	G	N3-C4-N9	-6.50	122.10	126.00
25	BB	171	U	C5-C4-O4	-6.50	122.00	125.90
25	BB	800	A	N9-C4-C5	6.50	108.40	105.80
25	BB	1495	A	C5-N7-C8	-6.50	100.65	103.90
25	BB	1841	U	C5-C6-N1	-6.50	119.45	122.70
25	BB	2293	G	C6-C5-N7	6.50	134.30	130.40
25	BB	2318	G	N3-C4-C5	-6.50	125.35	128.60
25	BB	2713	U	C4-C5-C6	6.50	123.60	119.70
33	BJ	23	TYR	CB-CG-CD1	-6.50	117.10	121.00
1	AE	25	C	N3-C2-O2	-6.50	117.35	121.90
3	A1	1292	G	C5-N7-C8	-6.50	101.05	104.30
3	A1	1323	G	N1-C2-N2	6.50	122.05	116.20
25	BB	76	C	C4-C5-C6	6.50	120.65	117.40
25	BB	206	U	C5-C4-O4	6.50	129.80	125.90
25	BB	367	G	N9-C1'-C2'	-6.50	104.85	112.00
25	BB	699	A	O4'-C1'-N9	-6.50	103.00	108.20
25	BB	1034	G	C5-C6-O6	6.50	132.50	128.60
25	BB	1386	C	N1-C2-N3	6.50	123.75	119.20
25	BB	1894	C	O4'-C1'-C2'	6.50	113.45	107.60
3	A1	733	G	N7-C8-N9	6.50	116.35	113.10
3	A1	925	G	C6-N1-C2	-6.50	121.20	125.10
3	A1	947	G	C4-C5-N7	6.50	113.40	110.80
3	A1	1514	G	C4-C5-N7	-6.50	108.20	110.80
25	BB	2157	G	N1-C2-N3	6.50	127.80	123.90
25	BB	2230	G	N1-C2-N3	6.50	127.80	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2559	C	N1-C2-N3	6.50	123.75	119.20
25	BB	2666	C	C5-C6-N1	-6.50	117.75	121.00
3	A1	404	G	C5-N7-C8	-6.50	101.05	104.30
3	A1	1273	C	N1-C2-O2	6.50	122.80	118.90
3	A1	1311	A	C4-C5-N7	6.50	113.95	110.70
3	A1	1492	A	C4'-C3'-C2'	-6.50	96.10	102.60
24	BA	117	G	C8-N9-C4	-6.50	103.80	106.40
25	BB	939	G	C6-N1-C2	-6.50	121.20	125.10
25	BB	1038	G	N3-C4-C5	-6.50	125.35	128.60
25	BB	1045	C	P-O3'-C3'	6.50	127.50	119.70
25	BB	1826	G	C4-C5-N7	-6.50	108.20	110.80
25	BB	1846	G	C5-N7-C8	-6.50	101.05	104.30
25	BB	1905	C	N1-C2-O2	6.50	122.80	118.90
25	BB	2071	A	O5'-C5'-C4'	6.50	124.05	111.70
25	BB	2534	A	C4-C5-C6	-6.50	113.75	117.00
25	BB	2635	A	O4'-C1'-N9	6.50	113.40	108.20
3	A1	106	C	C5'-C4'-C3'	-6.50	105.61	116.00
3	A1	137	U	C4'-C3'-C2'	-6.50	96.10	102.60
3	A1	196	A	C6-C5-N7	6.50	136.85	132.30
3	A1	212	G	N3-C2-N2	6.50	124.45	119.90
3	A1	813	U	C1'-O4'-C4'	-6.50	104.70	109.90
3	A1	1158	C	N1-C2-O2	6.50	122.80	118.90
3	A1	1419	G	O5'-C5'-C4'	6.50	124.05	111.70
24	BA	106	G	C8-N9-C4	-6.50	103.80	106.40
25	BB	128	C	C2-N3-C4	6.50	123.15	119.90
25	BB	849	A	C1'-O4'-C4'	-6.50	104.70	109.90
25	BB	1063	G	C6-N1-C2	6.50	129.00	125.10
25	BB	2061	G	N3-C4-C5	-6.50	125.35	128.60
3	A1	148	G	O4'-C1'-C2'	6.50	113.44	107.60
3	A1	561	U	N3-C2-O2	-6.50	117.65	122.20
3	A1	1287	A	C4'-C3'-C2'	-6.50	96.11	102.60
24	BA	91	C	C5'-C4'-O4'	-6.50	101.31	109.10
25	BB	1632	A	N1-C2-N3	-6.50	126.05	129.30
1	AA	31	A	C2-N3-C4	-6.49	107.35	110.60
3	A1	36	C	C1'-O4'-C4'	6.49	115.09	109.90
3	A1	108	G	O4'-C4'-C3'	6.49	111.29	106.10
3	A1	853	C	C4-C5-C6	6.49	120.65	117.40
24	BA	38	C	O4'-C1'-N1	6.49	113.40	108.20
24	BA	41	G	C4'-C3'-C2'	-6.49	96.11	102.60
24	BA	81	G	N3-C4-C5	-6.49	125.35	128.60
24	BA	118	C	N3-C4-N4	6.49	122.55	118.00
25	BB	912	C	C6-N1-C2	-6.49	117.70	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1305	C	C5-C6-N1	-6.49	117.75	121.00
25	BB	1417	C	N3-C2-O2	-6.49	117.36	121.90
25	BB	2744	G	C4-C5-N7	6.49	113.40	110.80
3	A1	235	C	O5'-P-OP2	-6.49	99.86	105.70
3	A1	682	G	C3'-C2'-C1'	-6.49	96.31	101.50
3	A1	980	C	N1-C2-O2	6.49	122.80	118.90
3	A1	1292	G	N3-C2-N2	6.49	124.44	119.90
3	A1	1446	A	N3-C4-N9	-6.49	122.21	127.40
25	BB	376	G	C4-C5-C6	-6.49	114.91	118.80
25	BB	1698	A	C5-C6-N6	6.49	128.89	123.70
25	BB	2011	U	C5-C6-N1	-6.49	119.45	122.70
25	BB	2749	A	C2-N3-C4	6.49	113.85	110.60
3	A1	223	A	N1-C2-N3	-6.49	126.06	129.30
3	A1	683	G	C1'-O4'-C4'	-6.49	104.71	109.90
3	A1	1039	G	C4-C5-C6	-6.49	114.91	118.80
3	A1	1091	U	N3-C2-O2	-6.49	117.66	122.20
25	BB	33	C	C5'-C4'-O4'	-6.49	101.31	109.10
25	BB	312	G	N3-C4-N9	-6.49	122.11	126.00
25	BB	1573	G	C6-N1-C2	-6.49	121.21	125.10
25	BB	1992	G	C5-C6-N1	6.49	114.75	111.50
25	BB	2081	U	C1'-O4'-C4'	-6.49	104.71	109.90
25	BB	2415	G	C6-C5-N7	-6.49	126.51	130.40
25	BB	2506	U	O3'-P-O5'	-6.49	91.67	104.00
25	BB	2644	G	N3-C4-N9	6.49	129.89	126.00
25	BB	2727	A	C5-C6-N1	6.49	120.94	117.70
25	BB	2824	C	C4-C5-C6	-6.49	114.16	117.40
35	BL	25	ARG	CD-NE-CZ	6.49	132.69	123.60
51	B2	7	TYR	CB-CG-CD1	-6.49	117.11	121.00
3	A1	108	G	C6-N1-C2	-6.49	121.21	125.10
3	A1	612	C	C4-C5-C6	-6.49	114.16	117.40
3	A1	1360	A	C6-C5-N7	6.49	136.84	132.30
3	A1	1439	G	O4'-C1'-N9	6.49	113.39	108.20
25	BB	35	G	N1-C2-N3	6.49	127.79	123.90
25	BB	54	G	C5-C6-N1	6.49	114.74	111.50
25	BB	365	U	C4-C5-C6	6.49	123.59	119.70
25	BB	649	G	N3-C4-C5	-6.49	125.36	128.60
25	BB	1075	C	C1'-O4'-C4'	-6.49	104.71	109.90
25	BB	2604	U	O4'-C1'-N1	6.49	113.39	108.20
34	BK	83	TYR	CB-CG-CD2	6.49	124.89	121.00
1	AE	39	U	N1-C2-N3	6.49	118.79	114.90
3	A1	145	G	P-O3'-C3'	-6.49	111.92	119.70
3	A1	331	G	C4-C5-C6	-6.49	114.91	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	734	G	N9-C4-C5	6.49	108.00	105.40
25	BB	1678	A	N1-C2-N3	-6.49	126.06	129.30
25	BB	1945	G	N3-C4-N9	6.49	129.89	126.00
1	AA	34	G	C8-N9-C4	6.49	108.99	106.40
3	A1	1102	A	N1-C2-N3	-6.49	126.06	129.30
18	AS	92	ARG	CD-NE-CZ	6.49	132.68	123.60
25	BB	66	C	N3-C4-N4	-6.49	113.46	118.00
25	BB	412	A	C1'-O4'-C4'	-6.49	104.71	109.90
25	BB	1008	A	O4'-C1'-N9	6.49	113.39	108.20
25	BB	2677	G	N1-C2-N2	-6.49	110.36	116.20
3	A1	403	C	C6-N1-C2	-6.48	117.71	120.30
3	A1	954	G	C8-N9-C4	6.48	108.99	106.40
24	BA	51	G	C1'-O4'-C4'	6.48	115.09	109.90
25	BB	121	G	N3-C2-N2	6.48	124.44	119.90
25	BB	293	U	C3'-C2'-C1'	6.48	106.69	101.50
25	BB	329	G	C8-N9-C4	6.48	108.99	106.40
25	BB	1484	U	N3-C2-O2	-6.48	117.66	122.20
25	BB	1579	A	C2-N3-C4	6.48	113.84	110.60
25	BB	2218	G	C8-N9-C4	6.48	108.99	106.40
25	BB	2241	A	C5'-C4'-C3'	-6.48	105.63	116.00
25	BB	2409	G	C5-N7-C8	-6.48	101.06	104.30
25	BB	2558	C	C5'-C4'-C3'	-6.48	105.63	116.00
25	BB	2800	A	N7-C8-N9	6.48	117.04	113.80
1	AE	32	C	N3-C2-O2	-6.48	117.36	121.90
3	A1	77	A	C6-N1-C2	6.48	122.49	118.60
3	A1	364	A	C4-C5-C6	-6.48	113.76	117.00
3	A1	557	G	C2-N3-C4	6.48	115.14	111.90
3	A1	586	C	N1-C2-O2	6.48	122.79	118.90
3	A1	1225	A	C6-C5-N7	6.48	136.84	132.30
3	A1	1318	A	N7-C8-N9	6.48	117.04	113.80
4	AB	134	LEU	CB-CG-CD1	-6.48	99.98	111.00
25	BB	124	G	N1-C6-O6	-6.48	116.01	119.90
25	BB	220	G	C5-C6-O6	-6.48	124.71	128.60
25	BB	1153	C	C4-C5-C6	-6.48	114.16	117.40
25	BB	1203	U	N3-C4-O4	-6.48	114.86	119.40
25	BB	1412	U	N3-C2-O2	-6.48	117.66	122.20
25	BB	1825	U	C5-C6-N1	-6.48	119.46	122.70
25	BB	2232	C	C2-N3-C4	-6.48	116.66	119.90
25	BB	2495	G	N1-C2-N3	6.48	127.79	123.90
3	A1	168	G	C4'-C3'-C2'	-6.48	96.12	102.60
3	A1	381	C	N1-C2-O2	6.48	122.79	118.90
3	A1	1056	U	C5-C6-N1	-6.48	119.46	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1471	U	N3-C4-C5	6.48	118.49	114.60
25	BB	141	G	P-O3'-C3'	6.48	127.48	119.70
25	BB	306	U	C1'-O4'-C4'	6.48	115.08	109.90
25	BB	334	C	C2-N1-C1'	6.48	125.93	118.80
25	BB	410	G	O4'-C1'-N9	6.48	113.39	108.20
25	BB	595	C	N3-C2-O2	-6.48	117.36	121.90
25	BB	629	G	C4-N9-C1'	6.48	134.92	126.50
25	BB	824	U	N3-C4-O4	6.48	123.94	119.40
25	BB	1459	G	N3-C4-N9	6.48	129.89	126.00
25	BB	1468	U	N3-C4-C5	-6.48	110.71	114.60
25	BB	1517	G	C5'-C4'-O4'	6.48	116.88	109.10
25	BB	1689	A	O5'-P-OP1	6.48	118.48	110.70
3	A1	174	A	C5'-C4'-O4'	-6.48	101.33	109.10
25	BB	134	G	N9-C4-C5	6.48	107.99	105.40
25	BB	2735	G	C4-C5-C6	-6.48	114.91	118.80
25	BB	2867	G	C4'-C3'-C2'	6.48	109.08	102.60
1	AA	16	U	N3-C4-O4	-6.48	114.87	119.40
2	AM	18	U	N3-C4-O4	-6.48	114.87	119.40
3	A1	239	U	C5-C6-N1	6.48	125.94	122.70
3	A1	551	U	O4'-C1'-N1	6.48	113.38	108.20
3	A1	662	U	N3-C2-O2	-6.48	117.67	122.20
3	A1	919	A	C6-C5-N7	6.48	136.84	132.30
3	A1	1056	U	N3-C2-O2	-6.48	117.67	122.20
3	A1	1464	U	N3-C4-C5	-6.48	110.71	114.60
7	AF	42	VAL	CG1-CB-CG2	-6.48	100.53	110.90
10	AI	28	ARG	NE-CZ-NH2	6.48	123.54	120.30
25	BB	1723	G	C8-N9-C4	-6.48	103.81	106.40
25	BB	1970	A	P-O3'-C3'	6.48	127.47	119.70
25	BB	2166	U	N3-C4-C5	-6.48	110.71	114.60
25	BB	2392	A	N1-C2-N3	6.48	132.54	129.30
25	BB	2758	A	N7-C8-N9	6.48	117.04	113.80
25	BB	2893	A	C5-N7-C8	6.48	107.14	103.90
1	AA	74	C	O5'-P-OP2	-6.48	99.87	105.70
3	A1	749	A	N1-C6-N6	-6.48	114.71	118.60
3	A1	1007	U	N3-C2-O2	-6.48	117.67	122.20
3	A1	1240	U	N3-C2-O2	-6.48	117.67	122.20
3	A1	1396	A	C8-N9-C4	-6.48	103.21	105.80
25	BB	222	A	N1-C6-N6	-6.48	114.71	118.60
25	BB	2062	A	N9-C1'-C2'	-6.48	104.88	112.00
25	BB	2675	A	C6-N1-C2	-6.48	114.71	118.60
1	AE	66	A	C6-N1-C2	-6.47	114.72	118.60
3	A1	296	U	C4-C5-C6	6.47	123.58	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	556	C	C5-C6-N1	-6.47	117.76	121.00
3	A1	694	A	O4'-C4'-C3'	6.47	111.28	106.10
3	A1	868	C	C3'-C2'-C1'	6.47	106.68	101.50
3	A1	954	G	N1-C2-N2	-6.47	110.37	116.20
3	A1	1103	C	C1'-O4'-C4'	-6.47	104.72	109.90
3	A1	1181	G	C4-C5-N7	6.47	113.39	110.80
24	BA	78	A	C4'-C3'-C2'	6.47	109.07	102.60
25	BB	297	G	C5-C6-O6	-6.47	124.72	128.60
25	BB	503	A	C4-C5-N7	-6.47	107.46	110.70
25	BB	841	G	C4'-C3'-C2'	-6.47	96.12	102.60
25	BB	1090	A	C5-C6-N6	6.47	128.88	123.70
25	BB	1701	A	C5'-C4'-C3'	-6.47	105.64	116.00
25	BB	1707	G	C6-C5-N7	6.47	134.28	130.40
25	BB	1962	C	C5'-C4'-O4'	6.47	116.87	109.10
25	BB	2030	A	C6-N1-C2	-6.47	114.72	118.60
25	BB	2448	A	O4'-C4'-C3'	6.47	111.28	106.10
25	BB	2455	G	O4'-C1'-N9	6.47	113.38	108.20
25	BB	2595	G	C4-C5-N7	-6.47	108.21	110.80
25	BB	2645	G	O4'-C1'-N9	6.47	113.38	108.20
25	BB	2835	A	P-O3'-C3'	6.47	127.47	119.70
25	BB	2837	A	N9-C1'-C2'	6.47	122.42	114.00
52	B3	146	ASP	CB-CG-OD1	6.47	124.13	118.30
3	A1	36	C	N3-C2-O2	-6.47	117.37	121.90
3	A1	564	C	N1-C2-O2	-6.47	115.02	118.90
3	A1	846	G	C6-C5-N7	6.47	134.28	130.40
3	A1	1253	G	N1-C6-O6	-6.47	116.02	119.90
3	A1	1279	G	C3'-C2'-C1'	6.47	106.68	101.50
3	A1	1432	G	P-O3'-C3'	6.47	127.47	119.70
25	BB	212	G	N3-C4-N9	-6.47	122.12	126.00
25	BB	861	A	C8-N9-C4	6.47	108.39	105.80
25	BB	1437	C	C4'-C3'-C2'	-6.47	96.13	102.60
25	BB	2146	C	C3'-C2'-C1'	6.47	106.68	101.50
25	BB	2169	A	N1-C2-N3	6.47	132.54	129.30
25	BB	2388	A	C6-C5-N7	6.47	136.83	132.30
28	BE	89	VAL	CA-CB-CG1	-6.47	101.19	110.90
3	A1	500	G	N7-C8-N9	6.47	116.34	113.10
16	AQ	32	ARG	CA-CB-CG	6.47	127.64	113.40
25	BB	51	G	C4-C5-N7	-6.47	108.21	110.80
25	BB	165	A	C5-N7-C8	-6.47	100.66	103.90
25	BB	489	G	C5-C6-N1	6.47	114.74	111.50
25	BB	2064	C	C2-N3-C4	-6.47	116.67	119.90
25	BB	2196	C	N3-C4-N4	6.47	122.53	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	26	G	N3-C4-C5	-6.47	125.36	128.60
3	A1	406	G	C5'-C4'-O4'	6.47	116.86	109.10
3	A1	857	C	C5'-C4'-C3'	-6.47	105.65	116.00
24	BA	85	G	N3-C2-N2	-6.47	115.37	119.90
25	BB	131	A	O4'-C1'-C2'	-6.47	99.33	105.80
25	BB	630	G	O4'-C1'-N9	6.47	113.38	108.20
25	BB	1348	C	N1-C2-O2	6.47	122.78	118.90
25	BB	1387	A	C6-N1-C2	-6.47	114.72	118.60
25	BB	1869	G	N9-C4-C5	6.47	107.99	105.40
25	BB	2096	C	N3-C2-O2	-6.47	117.37	121.90
33	BJ	12	ARG	NE-CZ-NH1	6.47	123.53	120.30
3	A1	863	U	N3-C2-O2	-6.47	117.67	122.20
3	A1	1438	G	C4-C5-N7	-6.47	108.21	110.80
25	BB	460	A	N1-C6-N6	-6.47	114.72	118.60
25	BB	561	G	C8-N9-C4	-6.47	103.81	106.40
25	BB	1160	G	N3-C4-C5	6.47	131.83	128.60
25	BB	1480	C	N3-C4-C5	6.47	124.49	121.90
25	BB	2027	G	C8-N9-C4	-6.47	103.81	106.40
25	BB	2183	A	C5-N7-C8	-6.47	100.67	103.90
1	AA	57	G	C2-N3-C4	6.47	115.13	111.90
1	AP	44	A	C5-C6-N6	6.47	128.87	123.70
3	A1	44	A	N9-C4-C5	6.47	108.39	105.80
3	A1	466	A	C5'-C4'-O4'	6.47	116.86	109.10
3	A1	945	G	C5-C6-O6	6.47	132.48	128.60
3	A1	1236	A	N3-C4-N9	-6.47	122.23	127.40
3	A1	1378	C	C1'-O4'-C4'	-6.47	104.73	109.90
18	AS	66	ALA	CB-CA-C	6.47	119.80	110.10
24	BA	57	A	C5-N7-C8	-6.47	100.67	103.90
25	BB	21	A	C5-N7-C8	-6.47	100.67	103.90
25	BB	747	U	C5-C6-N1	-6.47	119.47	122.70
25	BB	847	U	N3-C4-O4	6.47	123.93	119.40
25	BB	946	C	N1-C1'-C2'	6.47	122.41	114.00
25	BB	1113	U	C3'-C2'-C1'	6.47	106.67	101.50
25	BB	1363	C	C5-C6-N1	6.47	124.23	121.00
25	BB	1814	G	N9-C4-C5	6.47	107.99	105.40
25	BB	2315	G	N1-C2-N3	6.47	127.78	123.90
25	BB	2626	C	N1-C1'-C2'	-6.47	104.89	112.00
1	AP	50	U	C4'-C3'-C2'	-6.46	96.14	102.60
3	A1	310	G	C4-C5-N7	-6.46	108.21	110.80
3	A1	799	G	N1-C2-N2	-6.46	110.38	116.20
3	A1	1006	G	C3'-C2'-C1'	6.46	106.67	101.50
24	BA	6	G	C8-N9-C1'	6.46	135.40	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	86	G	N9-C4-C5	6.46	107.99	105.40
25	BB	214	G	C4-C5-N7	6.46	113.39	110.80
25	BB	474	G	C2-N3-C4	6.46	115.13	111.90
25	BB	990	A	C5-N7-C8	-6.46	100.67	103.90
25	BB	1176	U	N1-C2-N3	6.46	118.78	114.90
25	BB	1219	U	C4-C5-C6	6.46	123.58	119.70
25	BB	2374	C	C5-C4-N4	-6.46	115.67	120.20
25	BB	2407	A	C4-C5-N7	6.46	113.93	110.70
3	A1	339	C	C5'-C4'-O4'	6.46	116.86	109.10
3	A1	405	U	C5-C6-N1	-6.46	119.47	122.70
3	A1	486	U	C5-C4-O4	6.46	129.78	125.90
3	A1	1323	G	C6-C5-N7	6.46	134.28	130.40
3	A1	1350	A	C5-C6-N6	6.46	128.87	123.70
25	BB	154	U	O4'-C1'-N1	6.46	113.37	108.20
25	BB	1763	G	C8-N9-C4	6.46	108.98	106.40
25	BB	2592	G	C2-N3-C4	6.46	115.13	111.90
3	A1	189	A	N3-C4-N9	-6.46	122.23	127.40
25	BB	370	G	N7-C8-N9	-6.46	109.87	113.10
25	BB	638	G	O4'-C4'-C3'	6.46	111.27	106.10
25	BB	700	G	N3-C4-N9	6.46	129.88	126.00
25	BB	837	C	C2-N1-C1'	6.46	125.91	118.80
25	BB	984	A	N1-C6-N6	-6.46	114.72	118.60
25	BB	1023	U	C3'-C2'-C1'	6.46	106.67	101.50
25	BB	1102	C	N3-C4-N4	-6.46	113.48	118.00
25	BB	1407	G	C5-C6-O6	-6.46	124.72	128.60
25	BB	1481	U	C2-N3-C4	-6.46	123.12	127.00
25	BB	1583	A	N9-C1'-C2'	-6.46	104.89	112.00
25	BB	1674	G	N1-C2-N2	6.46	122.02	116.20
25	BB	1954	G	C4'-C3'-C2'	-6.46	96.14	102.60
25	BB	1959	G	C5-C6-O6	6.46	132.48	128.60
25	BB	1995	U	N3-C2-O2	-6.46	117.68	122.20
25	BB	2022	U	C6-N1-C2	-6.46	117.12	121.00
25	BB	2166	U	N3-C2-O2	-6.46	117.68	122.20
25	BB	2169	A	C6-C5-N7	6.46	136.82	132.30
25	BB	2593	U	C2'-C3'-O3'	6.46	124.04	113.70
25	BB	3	U	N3-C2-O2	-6.46	117.68	122.20
25	BB	544	C	C2-N3-C4	-6.46	116.67	119.90
25	BB	865	C	C4'-C3'-C2'	-6.46	96.14	102.60
25	BB	967	U	O5'-C5'-C4'	6.46	123.97	111.70
25	BB	1016	G	O4'-C1'-N9	-6.46	103.03	108.20
25	BB	1026	G	O4'-C1'-N9	6.46	113.37	108.20
25	BB	1355	G	C2-N3-C4	6.46	115.13	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1614	A	C6-N1-C2	6.46	122.48	118.60
25	BB	1623	G	C6-N1-C2	-6.46	121.22	125.10
25	BB	2824	C	C4'-C3'-C2'	-6.46	96.14	102.60
3	A1	693	G	C5-C6-O6	-6.46	124.72	128.60
3	A1	1160	G	N1-C2-N3	6.46	127.78	123.90
3	A1	1453	G	C5-C6-N1	6.46	114.73	111.50
24	BA	17	C	C3'-C2'-C1'	6.46	106.67	101.50
25	BB	252	G	N9-C4-C5	6.46	107.98	105.40
25	BB	522	A	C5-N7-C8	-6.46	100.67	103.90
25	BB	878	A	C4-C5-C6	-6.46	113.77	117.00
25	BB	1205	A	C1'-O4'-C4'	-6.46	104.73	109.90
25	BB	1438	U	C6-N1-C2	-6.46	117.12	121.00
25	BB	1934	C	N1-C2-N3	6.46	123.72	119.20
25	BB	1936	A	N3-C4-C5	6.46	131.32	126.80
25	BB	2492	U	O4'-C4'-C3'	6.46	111.27	106.10
25	BB	2727	A	N9-C1'-C2'	-6.46	104.89	112.00
1	AP	1	G	C1'-O4'-C4'	-6.46	104.73	109.90
3	A1	80	A	C3'-C2'-C1'	-6.46	96.33	101.50
3	A1	429	U	C2-N3-C4	-6.46	123.13	127.00
3	A1	429	U	C5'-C4'-O4'	-6.46	101.35	109.10
3	A1	491	G	C5-C6-O6	6.46	132.47	128.60
3	A1	1350	A	C4-C5-N7	6.46	113.93	110.70
25	BB	259	G	N1-C6-O6	-6.46	116.03	119.90
25	BB	418	C	C6-N1-C2	-6.46	117.72	120.30
25	BB	496	G	N7-C8-N9	6.46	116.33	113.10
25	BB	535	G	N3-C4-C5	-6.46	125.37	128.60
25	BB	979	A	C5-N7-C8	-6.46	100.67	103.90
25	BB	1218	G	O4'-C4'-C3'	6.46	111.27	106.10
25	BB	1500	G	N3-C4-N9	6.46	129.87	126.00
25	BB	1569	A	C2-N3-C4	6.46	113.83	110.60
25	BB	1609	A	C8-N9-C4	6.46	108.38	105.80
25	BB	2072	C	O4'-C4'-C3'	-6.46	97.54	104.00
25	BB	2134	A	C1'-O4'-C4'	-6.46	104.73	109.90
37	BN	155	ARG	NE-CZ-NH2	6.46	123.53	120.30
3	A1	437	U	O4'-C1'-N1	6.46	113.36	108.20
3	A1	1352	C	N1-C2-N3	6.46	123.72	119.20
3	A1	1467	C	N3-C4-N4	-6.46	113.48	118.00
3	A1	1500	A	C1'-O4'-C4'	-6.46	104.74	109.90
25	BB	761	A	C3'-C2'-C1'	-6.46	96.34	101.50
25	BB	1482	G	C5'-C4'-C3'	-6.46	105.67	116.00
1	AA	24	G	C2-N3-C4	6.45	115.13	111.90
3	A1	110	C	N3-C2-O2	-6.45	117.38	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	314	C	C3'-C2'-C1'	6.45	106.66	101.50
3	A1	626	G	N1-C2-N3	6.45	127.77	123.90
3	A1	1024	G	C5-N7-C8	-6.45	101.07	104.30
3	A1	1201	A	C6-N1-C2	-6.45	114.73	118.60
3	A1	1253	G	N3-C2-N2	6.45	124.42	119.90
3	A1	1414	U	N3-C2-O2	-6.45	117.68	122.20
3	A1	1517	G	O4'-C1'-N9	6.45	113.36	108.20
25	BB	384	A	C5'-C4'-C3'	-6.45	105.67	116.00
25	BB	800	A	N1-C2-N3	-6.45	126.07	129.30
25	BB	1054	A	C3'-C2'-C1'	-6.45	96.34	101.50
25	BB	1648	U	C5-C4-O4	6.45	129.77	125.90
25	BB	1824	G	C2-N3-C4	6.45	115.13	111.90
25	BB	2478	A	C5-C6-N1	6.45	120.93	117.70
25	BB	2873	A	C6-C5-N7	6.45	136.82	132.30
3	A1	300	A	C6-C5-N7	6.45	136.82	132.30
3	A1	637	C	C2-N3-C4	-6.45	116.67	119.90
3	A1	1340	A	C3'-C2'-C1'	6.45	106.66	101.50
25	BB	833	A	C2-N3-C4	-6.45	107.37	110.60
37	BN	239	PHE	CB-CG-CD2	-6.45	116.28	120.80
3	A1	772	U	C2-N3-C4	-6.45	123.13	127.00
3	A1	1475	G	N1-C6-O6	-6.45	116.03	119.90
25	BB	89	A	O4'-C4'-C3'	6.45	111.26	106.10
25	BB	1675	C	N3-C2-O2	-6.45	117.38	121.90
25	BB	2121	G	C5-C6-N1	6.45	114.72	111.50
25	BB	2123	G	C6-C5-N7	6.45	134.27	130.40
25	BB	2269	G	N9-C4-C5	6.45	107.98	105.40
25	BB	2341	G	C5-C6-O6	-6.45	124.73	128.60
25	BB	2451	A	C5-C6-N1	6.45	120.92	117.70
25	BB	2836	U	C5-C6-N1	-6.45	119.47	122.70
25	BB	2870	C	C1'-O4'-C4'	6.45	115.06	109.90
1	AE	35	A	C4'-C3'-C2'	-6.45	96.15	102.60
3	A1	91	U	P-O3'-C3'	6.45	127.44	119.70
3	A1	273	U	C2-N3-C4	-6.45	123.13	127.00
3	A1	404	G	C5-C6-N1	6.45	114.72	111.50
3	A1	894	G	C5-C6-N1	6.45	114.72	111.50
3	A1	952	U	C5-C4-O4	-6.45	122.03	125.90
3	A1	1376	U	C2-N3-C4	-6.45	123.13	127.00
24	BA	41	G	C5'-C4'-C3'	-6.45	105.68	116.00
25	BB	156	A	O5'-P-OP1	-6.45	99.90	105.70
25	BB	446	G	C5-C6-N1	6.45	114.72	111.50
25	BB	601	C	O4'-C1'-N1	6.45	113.36	108.20
25	BB	731	C	C6-N1-C2	-6.45	117.72	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	899	A	O4'-C1'-N9	6.45	113.36	108.20
25	BB	1287	A	C5-C6-N1	6.45	120.92	117.70
25	BB	1389	G	O4'-C1'-N9	6.45	113.36	108.20
25	BB	1671	U	N3-C2-O2	-6.45	117.69	122.20
25	BB	1750	G	O4'-C1'-C2'	6.45	113.40	107.60
25	BB	1773	A	C1'-O4'-C4'	-6.45	104.74	109.90
25	BB	2504	U	C2-N3-C4	-6.45	123.13	127.00
25	BB	2519	U	C5-C4-O4	-6.45	122.03	125.90
55	B6	74	TYR	CB-CG-CD2	-6.45	117.13	121.00
1	AE	67	A	C5'-C4'-O4'	6.45	116.84	109.10
3	A1	506	G	N7-C8-N9	6.45	116.32	113.10
3	A1	626	G	C6-N1-C2	-6.45	121.23	125.10
24	BA	8	C	N3-C2-O2	-6.45	117.39	121.90
25	BB	295	G	N7-C8-N9	6.45	116.32	113.10
25	BB	428	A	C1'-O4'-C4'	6.45	115.06	109.90
25	BB	1227	G	N3-C4-C5	-6.45	125.38	128.60
25	BB	2005	A	C5'-C4'-O4'	6.45	116.84	109.10
25	BB	2260	C	C2-N3-C4	-6.45	116.68	119.90
1	AP	33	U	C3'-C2'-C1'	-6.45	96.34	101.50
3	A1	818	G	N3-C4-C5	-6.45	125.38	128.60
3	A1	1051	C	N3-C4-C5	6.45	124.48	121.90
3	A1	1219	A	C6-C5-N7	6.45	136.81	132.30
6	AD	11	ARG	NE-CZ-NH2	-6.45	117.08	120.30
24	BA	61	G	N3-C2-N2	-6.45	115.39	119.90
25	BB	65	U	C5-C6-N1	-6.45	119.48	122.70
25	BB	68	G	C8-N9-C4	-6.45	103.82	106.40
25	BB	136	G	C5-C6-O6	-6.45	124.73	128.60
25	BB	510	C	N1-C2-N3	6.45	123.71	119.20
25	BB	936	A	N7-C8-N9	6.45	117.02	113.80
25	BB	1544	A	C5-C6-N6	6.45	128.86	123.70
25	BB	1666	G	N9-C1'-C2'	-6.45	104.91	112.00
25	BB	2018	G	N7-C8-N9	-6.45	109.88	113.10
25	BB	2336	A	N1-C2-N3	-6.45	126.08	129.30
25	BB	2390	U	N3-C2-O2	-6.45	117.69	122.20
25	BB	2426	A	O4'-C4'-C3'	6.45	111.26	106.10
25	BB	2861	U	C4-C5-C6	6.45	123.57	119.70
3	A1	677	U	C5-C4-O4	-6.44	122.03	125.90
14	AN	73	ARG	CD-NE-CZ	6.44	132.62	123.60
24	BA	89	U	C1'-O4'-C4'	-6.44	104.75	109.90
25	BB	313	G	C5'-C4'-O4'	6.44	116.83	109.10
25	BB	2598	A	C5-C6-N1	6.44	120.92	117.70
3	A1	1295	U	O4'-C1'-N1	-6.44	103.05	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	2	G	C8-N9-C4	-6.44	103.82	106.40
24	BA	47	C	C3'-C2'-C1'	6.44	106.65	101.50
24	BA	98	G	C4-C5-N7	-6.44	108.22	110.80
25	BB	772	C	C6-N1-C2	-6.44	117.72	120.30
25	BB	1015	U	N3-C4-O4	-6.44	114.89	119.40
25	BB	1473	G	C4-C5-N7	-6.44	108.22	110.80
25	BB	2732	G	C3'-C2'-C1'	6.44	106.65	101.50
1	AP	4	G	C4-C5-N7	-6.44	108.22	110.80
3	A1	101	A	N1-C2-N3	-6.44	126.08	129.30
3	A1	695	A	C1'-O4'-C4'	-6.44	104.75	109.90
3	A1	1144	G	C4-C5-C6	6.44	122.66	118.80
24	BA	60	C	N3-C4-C5	6.44	124.48	121.90
25	BB	374	A	C4'-C3'-C2'	-6.44	96.16	102.60
25	BB	1261	C	C3'-C2'-C1'	6.44	106.65	101.50
25	BB	1274	A	C5-C6-N6	6.44	128.85	123.70
25	BB	1646	C	N1-C2-N3	6.44	123.71	119.20
25	BB	1968	G	C3'-C2'-C1'	6.44	106.65	101.50
25	BB	2332	C	C5-C6-N1	-6.44	117.78	121.00
25	BB	2861	U	N3-C2-O2	-6.44	117.69	122.20
3	A1	617	G	C6-N1-C2	-6.44	121.24	125.10
3	A1	771	G	C6-C5-N7	6.44	134.26	130.40
3	A1	843	U	C1'-O4'-C4'	-6.44	104.75	109.90
25	BB	471	A	C6-N1-C2	-6.44	114.74	118.60
25	BB	1652	A	C8-N9-C4	-6.44	103.22	105.80
25	BB	1680	U	N3-C4-O4	6.44	123.91	119.40
25	BB	2236	U	C5-C6-N1	-6.44	119.48	122.70
25	BB	2452	C	O4'-C1'-N1	6.44	113.35	108.20
3	A1	211	G	N1-C2-N2	-6.44	110.41	116.20
3	A1	579	A	C6-N1-C2	-6.44	114.74	118.60
3	A1	790	A	C5-C6-N1	6.44	120.92	117.70
3	A1	1387	G	O4'-C4'-C3'	6.44	111.25	106.10
24	BA	54	G	C6-N1-C2	-6.44	121.24	125.10
25	BB	187	G	N9-C4-C5	6.44	107.97	105.40
25	BB	719	C	C6-N1-C2	-6.44	117.72	120.30
25	BB	1384	A	C5'-C4'-C3'	-6.44	105.70	116.00
25	BB	1807	G	N3-C2-N2	6.44	124.41	119.90
25	BB	1948	G	C4-C5-N7	-6.44	108.22	110.80
25	BB	2035	G	N1-C6-O6	-6.44	116.04	119.90
25	BB	2091	C	P-O3'-C3'	6.44	127.42	119.70
25	BB	2501	C	C6-N1-C2	-6.44	117.72	120.30
25	BB	2571	U	O4'-C1'-N1	6.44	113.35	108.20
25	BB	2645	G	N1-C2-N3	6.44	127.76	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2678	C	N3-C4-N4	-6.44	113.49	118.00
1	AE	24	G	N1-C2-N3	6.44	127.76	123.90
2	AM	2	U	N1-C2-O2	-6.44	118.30	122.80
3	A1	331	G	C5-C6-N1	6.44	114.72	111.50
3	A1	507	C	N3-C4-N4	-6.44	113.49	118.00
3	A1	1324	A	C5-N7-C8	-6.44	100.68	103.90
6	AD	13	ARG	CD-NE-CZ	6.44	132.61	123.60
24	BA	46	A	C4-C5-C6	-6.44	113.78	117.00
25	BB	529	A	O4'-C1'-N9	6.44	113.35	108.20
25	BB	1068	G	C5-N7-C8	-6.44	101.08	104.30
25	BB	1701	A	C1'-O4'-C4'	-6.44	104.75	109.90
25	BB	1815	A	C8-N9-C4	-6.44	103.23	105.80
3	A1	216	U	C5-C4-O4	6.43	129.76	125.90
3	A1	1112	C	N1-C1'-C2'	-6.43	104.92	112.00
3	A1	1328	C	N1-C2-N3	6.43	123.70	119.20
3	A1	1408	A	C1'-O4'-C4'	6.43	115.05	109.90
6	AD	32	VAL	CA-CB-CG2	6.43	120.55	110.90
24	BA	86	G	C5'-C4'-O4'	-6.43	101.38	109.10
25	BB	21	A	N7-C8-N9	6.43	117.02	113.80
25	BB	222	A	N7-C8-N9	6.43	117.02	113.80
25	BB	236	C	C5'-C4'-C3'	-6.43	105.71	116.00
25	BB	961	C	C5-C4-N4	-6.43	115.69	120.20
25	BB	1654	A	N7-C8-N9	6.43	117.02	113.80
25	BB	1862	G	C5-C6-O6	-6.43	124.74	128.60
25	BB	2196	C	C5-C4-N4	-6.43	115.70	120.20
25	BB	2379	G	N9-C4-C5	6.43	107.97	105.40
1	AE	30	G	C5-C6-N1	6.43	114.72	111.50
3	A1	583	A	C8-N9-C4	-6.43	103.23	105.80
3	A1	673	A	N3-C4-N9	6.43	132.55	127.40
3	A1	1353	G	C6-N1-C2	-6.43	121.24	125.10
25	BB	139	U	C5-C4-O4	-6.43	122.04	125.90
25	BB	524	G	C3'-C2'-C1'	6.43	106.65	101.50
25	BB	697	G	N9-C1'-C2'	-6.43	104.92	112.00
25	BB	2497	A	N1-C2-N3	6.43	132.52	129.30
25	BB	2534	A	N7-C8-N9	-6.43	110.58	113.80
34	BK	53	PHE	CB-CG-CD1	6.43	125.30	120.80
3	A1	70	U	O4'-C4'-C3'	6.43	111.25	106.10
3	A1	684	U	C3'-C2'-C1'	6.43	106.64	101.50
3	A1	902	G	C8-N9-C4	-6.43	103.83	106.40
3	A1	1500	A	C5'-C4'-O4'	6.43	116.82	109.10
25	BB	6	A	C4-C5-N7	6.43	113.92	110.70
25	BB	241	A	N1-C2-N3	-6.43	126.08	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1422	G	C4'-C3'-C2'	-6.43	96.17	102.60
25	BB	1620	G	O3'-P-O5'	6.43	116.22	104.00
25	BB	1634	A	C5-C6-N6	6.43	128.84	123.70
1	AE	28	C	N3-C4-C5	6.43	124.47	121.90
3	A1	361	G	C5-N7-C8	-6.43	101.08	104.30
3	A1	567	G	C8-N9-C4	-6.43	103.83	106.40
3	A1	670	G	N3-C4-C5	-6.43	125.39	128.60
3	A1	779	C	O4'-C1'-N1	6.43	113.34	108.20
3	A1	802	A	C4-C5-C6	-6.43	113.79	117.00
3	A1	859	G	N7-C8-N9	-6.43	109.89	113.10
3	A1	1415	G	N7-C8-N9	6.43	116.31	113.10
17	AR	75	TYR	CB-CG-CD2	6.43	124.86	121.00
25	BB	394	C	C3'-C2'-C1'	-6.43	96.36	101.50
25	BB	559	G	C8-N9-C4	-6.43	103.83	106.40
25	BB	1373	A	C6-C5-N7	6.43	136.80	132.30
25	BB	2073	C	C2-N3-C4	-6.43	116.69	119.90
3	A1	507	C	N1-C1'-C2'	-6.43	104.93	112.00
25	BB	1450	G	C6-N1-C2	-6.43	121.24	125.10
2	AM	17	U	C6-N1-C2	6.43	124.86	121.00
3	A1	147	G	N3-C2-N2	-6.43	115.40	119.90
3	A1	261	U	C5-C6-N1	-6.43	119.49	122.70
3	A1	369	G	N3-C4-N9	-6.43	122.14	126.00
3	A1	456	A	C6-N1-C2	-6.43	114.75	118.60
3	A1	622	A	N3-C4-N9	6.43	132.54	127.40
3	A1	1144	G	N1-C2-N2	6.43	121.98	116.20
3	A1	1272	G	O4'-C1'-C2'	-6.43	99.37	105.80
25	BB	308	G	O4'-C1'-C2'	6.43	113.38	107.60
25	BB	563	A	C3'-C2'-C1'	6.43	106.64	101.50
25	BB	841	G	C4-C5-N7	-6.43	108.23	110.80
25	BB	938	G	C6-C5-N7	6.43	134.26	130.40
25	BB	1241	A	C4'-C3'-C2'	-6.43	96.17	102.60
25	BB	1389	G	N9-C1'-C2'	-6.43	104.93	112.00
25	BB	1727	C	N1-C2-O2	6.43	122.76	118.90
25	BB	1876	A	N7-C8-N9	-6.43	110.59	113.80
25	BB	2234	G	C1'-O4'-C4'	-6.43	104.76	109.90
25	BB	2238	G	N3-C2-N2	6.43	124.40	119.90
25	BB	2472	G	O4'-C1'-C2'	-6.43	99.37	105.80
52	B3	118	ALA	CB-CA-C	6.43	119.74	110.10
1	AA	43	G	O4'-C1'-C2'	6.42	113.38	107.60
1	AP	7	U	N1-C2-O2	6.42	127.30	122.80
3	A1	65	A	O4'-C1'-N9	6.42	113.34	108.20
3	A1	373	A	C5-C6-N6	6.42	128.84	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1106	G	C2-N3-C4	6.42	115.11	111.90
3	A1	1206	G	N3-C4-C5	-6.42	125.39	128.60
3	A1	1296	C	N3-C2-O2	-6.42	117.40	121.90
14	AN	17	ARG	NE-CZ-NH2	-6.42	117.09	120.30
24	BA	94	A	C4'-C3'-C2'	-6.42	96.17	102.60
25	BB	231	A	N3-C4-N9	-6.42	122.26	127.40
25	BB	1189	A	C4-C5-C6	-6.42	113.79	117.00
25	BB	1604	C	C5-C6-N1	-6.42	117.79	121.00
25	BB	2218	G	C4'-C3'-C2'	-6.42	96.17	102.60
25	BB	2234	G	O4'-C4'-C3'	6.42	111.24	106.10
25	BB	2312	U	C2-N3-C4	-6.42	123.14	127.00
25	BB	2339	C	O4'-C4'-C3'	6.42	111.24	106.10
25	BB	2627	G	N9-C4-C5	-6.42	102.83	105.40
25	BB	2843	G	C8-N9-C4	-6.42	103.83	106.40
25	BB	2883	A	C8-N9-C4	-6.42	103.23	105.80
27	BD	45	GLU	OE1-CD-OE2	-6.42	115.59	123.30
3	A1	50	A	C5-C6-N6	-6.42	118.56	123.70
3	A1	699	C	C6-N1-C1'	6.42	128.51	120.80
3	A1	1068	G	O4'-C1'-N9	6.42	113.34	108.20
25	BB	312	G	C8-N9-C1'	6.42	135.35	127.00
25	BB	461	C	C6-N1-C2	-6.42	117.73	120.30
25	BB	653	U	C2-N3-C4	-6.42	123.15	127.00
25	BB	693	A	C8-N9-C4	-6.42	103.23	105.80
25	BB	1515	A	C5'-C4'-O4'	6.42	116.81	109.10
25	BB	1661	G	N1-C6-O6	-6.42	116.05	119.90
25	BB	1784	A	O4'-C1'-N9	-6.42	103.06	108.20
3	A1	220	G	C5'-C4'-C3'	-6.42	105.72	116.00
3	A1	894	G	N3-C2-N2	-6.42	115.41	119.90
3	A1	1480	A	N7-C8-N9	6.42	117.01	113.80
24	BA	114	C	C4'-C3'-C2'	-6.42	96.18	102.60
25	BB	133	U	C4-C5-C6	6.42	123.55	119.70
25	BB	492	A	C5-C6-N6	6.42	128.84	123.70
25	BB	668	A	N1-C6-N6	-6.42	114.75	118.60
25	BB	1016	G	N1-C2-N3	6.42	127.75	123.90
25	BB	1055	G	N9-C1'-C2'	-6.42	104.94	112.00
25	BB	1154	G	N3-C2-N2	-6.42	115.41	119.90
25	BB	1317	G	C5-C6-N1	6.42	114.71	111.50
25	BB	1757	A	C2-N3-C4	6.42	113.81	110.60
25	BB	2012	G	C2-N3-C4	6.42	115.11	111.90
25	BB	2120	G	N3-C2-N2	-6.42	115.41	119.90
25	BB	2671	G	C5-C6-O6	6.42	132.45	128.60
25	BB	2777	G	C4-C5-N7	6.42	113.37	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	136	C	N3-C4-N4	-6.42	113.51	118.00
3	A1	189	A	N3-C4-C5	6.42	131.29	126.80
3	A1	466	A	O4'-C1'-C2'	-6.42	99.38	105.80
25	BB	1091	G	N7-C8-N9	6.42	116.31	113.10
3	A1	254	G	N7-C8-N9	6.42	116.31	113.10
3	A1	1341	U	N3-C4-C5	6.42	118.45	114.60
23	AX	37	ARG	NE-CZ-NH1	6.42	123.51	120.30
24	BA	2	G	C4-C5-N7	-6.42	108.23	110.80
25	BB	139	U	N1-C1'-C2'	6.42	122.34	114.00
25	BB	214	G	N1-C2-N3	6.42	127.75	123.90
25	BB	498	G	C4-C5-N7	-6.42	108.23	110.80
25	BB	513	A	C5-C6-N1	6.42	120.91	117.70
25	BB	537	G	C4-C5-C6	-6.42	114.95	118.80
25	BB	782	A	C6-C5-N7	6.42	136.79	132.30
25	BB	1603	A	N3-C4-C5	6.42	131.29	126.80
25	BB	1802	A	C8-N9-C4	-6.42	103.23	105.80
25	BB	1949	G	C8-N9-C4	-6.42	103.83	106.40
25	BB	2144	G	C5-N7-C8	6.42	107.51	104.30
25	BB	2237	G	C5-N7-C8	6.42	107.51	104.30
25	BB	2415	G	N1-C2-N3	6.42	127.75	123.90
25	BB	2826	A	C2-N3-C4	6.42	113.81	110.60
1	AA	5	A	C5'-C4'-O4'	6.42	116.80	109.10
3	A1	25	C	N3-C4-N4	-6.42	113.51	118.00
3	A1	83	C	C4'-C3'-C2'	-6.42	96.18	102.60
3	A1	226	G	C1'-O4'-C4'	6.42	115.03	109.90
3	A1	541	G	C3'-C2'-C1'	-6.42	96.37	101.50
3	A1	733	G	N1-C2-N3	6.42	127.75	123.90
3	A1	753	A	C3'-C2'-C1'	-6.42	96.37	101.50
3	A1	1108	G	N1-C6-O6	-6.42	116.05	119.90
4	AB	136	ARG	NH1-CZ-NH2	-6.42	112.34	119.40
25	BB	118	A	C6-C5-N7	6.42	136.79	132.30
25	BB	500	G	C5-N7-C8	-6.42	101.09	104.30
25	BB	965	C	N1-C1'-C2'	6.42	122.34	114.00
25	BB	1142	A	O4'-C4'-C3'	-6.42	97.58	104.00
25	BB	1319	C	O4'-C1'-N1	6.42	113.33	108.20
25	BB	1321	A	N7-C8-N9	6.42	117.01	113.80
25	BB	2534	A	C5'-C4'-O4'	6.42	116.80	109.10
25	BB	2706	A	N7-C8-N9	6.42	117.01	113.80
37	BN	166	ARG	CD-NE-CZ	6.42	132.58	123.60
53	B4	78	VAL	CG1-CB-CG2	-6.42	100.63	110.90
3	A1	988	G	C4-C5-N7	-6.42	108.23	110.80
25	BB	671	C	N1-C2-N3	6.42	123.69	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	760	G	N7-C8-N9	6.42	116.31	113.10
25	BB	1117	C	O5'-P-OP2	-6.42	99.93	105.70
25	BB	1227	G	C4-C5-N7	-6.42	108.23	110.80
25	BB	1404	C	N1-C1'-C2'	6.42	122.34	114.00
25	BB	2261	C	N3-C4-N4	-6.42	113.51	118.00
25	BB	2696	U	O4'-C1'-N1	-6.42	103.07	108.20
25	BB	2883	A	N1-C2-N3	6.42	132.51	129.30
1	AP	36	A	C3'-C2'-C1'	6.41	106.63	101.50
3	A1	48	C	C2-N3-C4	-6.41	116.69	119.90
3	A1	247	G	C2-N3-C4	-6.41	108.69	111.90
3	A1	806	C	C6-N1-C2	-6.41	117.73	120.30
3	A1	1466	C	N3-C4-N4	-6.41	113.51	118.00
3	A1	1494	G	O4'-C1'-N9	6.41	113.33	108.20
15	AO	171	ARG	NE-CZ-NH1	6.41	123.51	120.30
24	BA	80	U	C6-N1-C2	-6.41	117.15	121.00
25	BB	243	U	C6-N1-C2	-6.41	117.15	121.00
25	BB	370	G	C8-N9-C4	6.41	108.97	106.40
25	BB	555	G	C3'-C2'-C1'	6.41	106.63	101.50
25	BB	641	U	C2-N1-C1'	6.41	125.40	117.70
25	BB	763	G	O4'-C4'-C3'	6.41	111.23	106.10
25	BB	877	A	C6-N1-C2	-6.41	114.75	118.60
25	BB	1786	A	C5-N7-C8	-6.41	100.69	103.90
25	BB	2250	G	N1-C2-N3	6.41	127.75	123.90
25	BB	2343	U	C4-C5-C6	6.41	123.55	119.70
25	BB	2415	G	C4'-C3'-C2'	-6.41	96.19	102.60
3	A1	203	G	C2-N3-C4	6.41	115.11	111.90
25	BB	253	C	C2-N3-C4	-6.41	116.69	119.90
25	BB	1321	A	C6-N1-C2	-6.41	114.75	118.60
25	BB	1557	C	C5-C6-N1	-6.41	117.79	121.00
25	BB	2152	G	N9-C4-C5	-6.41	102.83	105.40
1	AA	36	A	C4'-C3'-C2'	-6.41	96.19	102.60
3	A1	207	C	C5-C4-N4	-6.41	115.71	120.20
3	A1	241	G	C5-C6-O6	6.41	132.45	128.60
3	A1	299	G	N1-C2-N3	6.41	127.75	123.90
3	A1	1021	A	C5-C6-N6	6.41	128.83	123.70
3	A1	1228	C	N1-C2-N3	6.41	123.69	119.20
3	A1	1349	A	N9-C4-C5	6.41	108.36	105.80
24	BA	9	G	C2-N3-C4	6.41	115.11	111.90
25	BB	159	G	O5'-P-OP1	-6.41	99.93	105.70
25	BB	470	A	C4-C5-C6	-6.41	113.79	117.00
25	BB	1002	G	O3'-P-O5'	-6.41	91.82	104.00
25	BB	1063	G	N3-C4-C5	-6.41	125.39	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1257	C	N3-C4-C5	6.41	124.46	121.90
25	BB	1415	U	C5-C6-N1	-6.41	119.50	122.70
25	BB	2022	U	C4-C5-C6	6.41	123.55	119.70
25	BB	2090	A	N3-C4-N9	-6.41	122.27	127.40
25	BB	2662	A	C3'-C2'-C1'	-6.41	96.37	101.50
25	BB	2694	G	C5-N7-C8	-6.41	101.09	104.30
2	AM	16	U	C5-C4-O4	-6.41	122.06	125.90
3	A1	211	G	C5'-C4'-O4'	6.41	116.79	109.10
3	A1	523	A	N1-C2-N3	-6.41	126.10	129.30
3	A1	681	A	C5-C6-N6	6.41	128.83	123.70
3	A1	1014	A	N3-C4-C5	-6.41	122.31	126.80
3	A1	1034	G	C5-N7-C8	-6.41	101.09	104.30
3	A1	1094	G	N1-C2-N2	-6.41	110.43	116.20
3	A1	1422	G	C6-N1-C2	-6.41	121.25	125.10
3	A1	1529	G	C5-C6-O6	-6.41	124.75	128.60
23	AX	52	LEU	CB-CA-C	6.41	122.38	110.20
25	BB	305	C	O4'-C4'-C3'	6.41	111.23	106.10
25	BB	529	A	C6-N1-C2	-6.41	114.75	118.60
25	BB	838	C	C2-N3-C4	-6.41	116.70	119.90
25	BB	1106	G	C6-C5-N7	6.41	134.25	130.40
25	BB	1305	C	C5'-C4'-O4'	-6.41	101.41	109.10
25	BB	1396	U	C2-N3-C4	-6.41	123.16	127.00
25	BB	2007	U	C4-C5-C6	6.41	123.55	119.70
25	BB	2370	G	C6-N1-C2	-6.41	121.25	125.10
25	BB	2491	U	C4'-C3'-C2'	-6.41	96.19	102.60
25	BB	2669	G	C5'-C4'-C3'	-6.41	105.75	116.00
25	BB	2697	G	N9-C1'-C2'	-6.41	104.95	112.00
25	BB	2800	A	C2-N3-C4	-6.41	107.40	110.60
1	AP	1	G	N3-C4-C5	-6.41	125.40	128.60
1	AE	75	C	O4'-C1'-C2'	-6.41	99.39	105.80
3	A1	1167	A	C6-N1-C2	-6.41	114.76	118.60
25	BB	272	A	C5-N7-C8	-6.41	100.70	103.90
25	BB	863	A	C1'-O4'-C4'	6.41	115.03	109.90
1	AE	16	U	C2-N3-C4	6.41	130.84	127.00
1	AE	23	A	N9-C4-C5	6.41	108.36	105.80
3	A1	171	A	P-O3'-C3'	6.41	127.39	119.70
3	A1	256	U	N3-C4-O4	-6.41	114.92	119.40
3	A1	368	U	C5-C6-N1	-6.41	119.50	122.70
3	A1	470	C	N3-C2-O2	-6.41	117.42	121.90
3	A1	904	U	N3-C4-O4	-6.41	114.92	119.40
3	A1	1072	G	N3-C4-C5	-6.41	125.40	128.60
3	A1	1434	A	C1'-O4'-C4'	-6.41	104.78	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
17	AR	62	ARG	CD-NE-CZ	6.41	132.57	123.60
25	BB	105	C	C2-N3-C4	-6.41	116.70	119.90
25	BB	348	A	C5-C6-N6	6.41	128.82	123.70
25	BB	433	C	N1-C2-O2	6.41	122.74	118.90
25	BB	805	G	N7-C8-N9	6.41	116.30	113.10
25	BB	864	G	C2'-C3'-O3'	6.41	123.95	113.70
25	BB	1216	G	C1'-O4'-C4'	-6.41	104.78	109.90
25	BB	1317	G	N7-C8-N9	6.41	116.30	113.10
25	BB	2066	C	N3-C4-N4	-6.41	113.52	118.00
25	BB	2511	U	N1-C2-O2	6.41	127.28	122.80
25	BB	2523	G	N1-C2-N2	6.41	121.96	116.20
25	BB	2548	U	N1-C2-N3	6.41	118.74	114.90
25	BB	2779	U	C4-C5-C6	6.41	123.54	119.70
3	A1	283	U	N3-C2-O2	-6.40	117.72	122.20
3	A1	716	A	C4-C5-C6	-6.40	113.80	117.00
25	BB	1527	G	C6-N1-C2	-6.40	121.26	125.10
25	BB	2123	G	N9-C4-C5	-6.40	102.84	105.40
25	BB	2348	U	C5-C6-N1	-6.40	119.50	122.70
25	BB	2565	A	C6-N1-C2	-6.40	114.76	118.60
3	A1	659	U	N1-C1'-C2'	-6.40	104.96	112.00
3	A1	1249	C	N1-C2-N3	6.40	123.68	119.20
25	BB	4	U	C5-C6-N1	-6.40	119.50	122.70
25	BB	273	G	N3-C2-N2	-6.40	115.42	119.90
25	BB	582	A	C4-C5-C6	-6.40	113.80	117.00
25	BB	1620	G	C8-N9-C4	-6.40	103.84	106.40
25	BB	2066	C	C2-N3-C4	-6.40	116.70	119.90
25	BB	2303	G	N3-C4-C5	-6.40	125.40	128.60
25	BB	2646	C	O4'-C1'-N1	6.40	113.32	108.20
25	BB	2720	U	C4-C5-C6	6.40	123.54	119.70
49	BZ	63	ARG	NE-CZ-NH2	6.40	123.50	120.30
1	AE	54	U	N3-C4-C5	6.40	118.44	114.60
3	A1	299	G	C4-N9-C1'	6.40	134.82	126.50
3	A1	518	C	C2-N3-C4	-6.40	116.70	119.90
3	A1	778	G	C5-C6-O6	6.40	132.44	128.60
3	A1	909	A	C4-C5-C6	-6.40	113.80	117.00
3	A1	1451	U	N1-C2-N3	6.40	118.74	114.90
25	BB	195	A	C5-C6-N1	6.40	120.90	117.70
25	BB	375	G	N3-C2-N2	-6.40	115.42	119.90
25	BB	384	A	P-O3'-C3'	6.40	127.38	119.70
25	BB	499	U	C5-C6-N1	-6.40	119.50	122.70
25	BB	772	C	C5-C6-N1	-6.40	117.80	121.00
25	BB	939	G	C4-C5-N7	6.40	113.36	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1925	C	C4-C5-C6	-6.40	114.20	117.40
25	BB	1946	U	N3-C4-O4	-6.40	114.92	119.40
25	BB	2152	G	C5-C6-N1	6.40	114.70	111.50
25	BB	2737	G	C6-C5-N7	-6.40	126.56	130.40
55	B6	15	TRP	CG-CD2-CE3	6.40	139.66	133.90
1	AA	3	G	C5'-C4'-O4'	6.40	116.78	109.10
3	A1	331	G	N3-C4-N9	-6.40	122.16	126.00
3	A1	507	C	O4'-C4'-C3'	6.40	111.22	106.10
3	A1	519	C	C3'-C2'-C1'	6.40	106.62	101.50
25	BB	640	C	N3-C4-N4	-6.40	113.52	118.00
25	BB	704	G	N1-C6-O6	-6.40	116.06	119.90
3	A1	213	G	C1'-O4'-C4'	6.40	115.02	109.90
3	A1	472	U	C5-C4-O4	6.40	129.74	125.90
3	A1	623	C	C5'-C4'-O4'	6.40	116.78	109.10
25	BB	44	A	P-O3'-C3'	6.40	127.38	119.70
25	BB	421	C	N1-C2-O2	6.40	122.74	118.90
25	BB	2054	A	C6-C5-N7	6.40	136.78	132.30
25	BB	2363	G	N3-C4-C5	-6.40	125.40	128.60
25	BB	2542	A	O4'-C4'-C3'	6.40	111.22	106.10
37	BN	97	ASP	CB-CG-OD1	-6.40	112.54	118.30
1	AP	63	C	O4'-C1'-N1	6.40	113.32	108.20
3	A1	86	G	O4'-C1'-N9	6.40	113.32	108.20
3	A1	128	G	N7-C8-N9	6.40	116.30	113.10
3	A1	334	C	O4'-C1'-N1	-6.40	103.08	108.20
3	A1	1248	A	C6-C5-N7	6.40	136.78	132.30
3	A1	1395	C	N1-C2-O2	6.40	122.74	118.90
25	BB	170	U	C3'-C2'-C1'	-6.40	96.38	101.50
25	BB	1005	C	C2-N3-C4	-6.40	116.70	119.90
25	BB	1726	C	C5-C6-N1	-6.40	117.80	121.00
25	BB	2426	A	C4-C5-C6	-6.40	113.80	117.00
25	BB	2444	G	O4'-C1'-C2'	-6.40	99.40	105.80
25	BB	2825	G	C6-N1-C2	-6.40	121.26	125.10
3	A1	267	C	C5-C6-N1	-6.39	117.80	121.00
3	A1	620	C	N3-C2-O2	-6.39	117.42	121.90
3	A1	867	G	N7-C8-N9	6.39	116.30	113.10
3	A1	1026	G	N3-C4-N9	6.39	129.84	126.00
3	A1	1129	C	N1-C2-O2	6.39	122.74	118.90
25	BB	343	C	O4'-C1'-N1	6.39	113.32	108.20
25	BB	883	G	C5-C6-N1	6.39	114.70	111.50
25	BB	1520	U	C4-C5-C6	-6.39	115.86	119.70
25	BB	1656	C	N1-C2-N3	6.39	123.68	119.20
25	BB	1882	U	C5'-C4'-O4'	6.39	116.77	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2603	G	O3'-P-O5'	6.39	116.15	104.00
25	BB	2691	C	C5'-C4'-O4'	6.39	116.77	109.10
25	BB	2822	G	O3'-P-O5'	-6.39	91.85	104.00
55	B6	10	THR	C-N-CA	6.39	137.69	121.70
3	A1	167	A	C6-N1-C2	-6.39	114.76	118.60
3	A1	656	G	C5-C6-N1	6.39	114.70	111.50
3	A1	876	C	O4'-C1'-N1	6.39	113.31	108.20
3	A1	908	A	N7-C8-N9	6.39	117.00	113.80
20	AU	134	VAL	CB-CA-C	-6.39	99.25	111.40
25	BB	5	A	C5'-C4'-C3'	-6.39	105.77	116.00
25	BB	230	G	C5'-C4'-C3'	-6.39	105.77	116.00
25	BB	452	G	N9-C4-C5	-6.39	102.84	105.40
25	BB	722	A	N9-C4-C5	6.39	108.36	105.80
25	BB	1154	G	C5'-C4'-O4'	6.39	116.77	109.10
25	BB	1374	G	C3'-C2'-C1'	6.39	106.61	101.50
25	BB	1596	A	C4'-C3'-C2'	-6.39	96.21	102.60
25	BB	1887	C	C6-N1-C2	-6.39	117.74	120.30
25	BB	2659	G	C4'-C3'-C2'	-6.39	96.21	102.60
51	B2	133	GLU	OE1-CD-OE2	-6.39	115.63	123.30
25	BB	503	A	C4-C5-C6	-6.39	113.80	117.00
25	BB	1554	U	C1'-O4'-C4'	-6.39	104.79	109.90
25	BB	2682	A	C5'-C4'-C3'	-6.39	105.77	116.00
3	A1	559	A	C8-N9-C1'	-6.39	116.20	127.70
3	A1	691	G	C4-C5-N7	6.39	113.36	110.80
3	A1	816	A	C5-C6-N1	6.39	120.89	117.70
3	A1	823	C	N1-C2-O2	-6.39	115.07	118.90
3	A1	883	C	C5'-C4'-C3'	-6.39	105.78	116.00
3	A1	1314	C	C4'-C3'-C2'	-6.39	96.21	102.60
25	BB	353	C	N3-C4-C5	6.39	124.46	121.90
25	BB	434	U	O4'-C1'-N1	6.39	113.31	108.20
25	BB	852	U	P-O3'-C3'	-6.39	112.03	119.70
25	BB	1148	U	N1-C1'-C2'	-6.39	104.97	112.00
25	BB	1447	C	C5-C4-N4	6.39	124.67	120.20
25	BB	1822	C	C4'-C3'-C2'	-6.39	96.21	102.60
25	BB	1930	G	C4-C5-N7	6.39	113.36	110.80
25	BB	2002	G	C4-C5-N7	6.39	113.36	110.80
25	BB	2074	U	C3'-C2'-C1'	6.39	106.61	101.50
25	BB	2372	U	O4'-C1'-N1	6.39	113.31	108.20
25	BB	2580	U	C5'-C4'-O4'	6.39	116.77	109.10
25	BB	2655	G	N3-C4-C5	-6.39	125.41	128.60
25	BB	2745	C	C6-N1-C2	-6.39	117.74	120.30
25	BB	2747	G	N1-C2-N2	-6.39	110.45	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2806	C	N3-C2-O2	-6.39	117.43	121.90
25	BB	2876	G	N7-C8-N9	6.39	116.29	113.10
1	AA	60	C	O4'-C1'-N1	6.39	113.31	108.20
3	A1	57	G	C5-N7-C8	-6.39	101.11	104.30
3	A1	82	G	C4-C5-N7	6.39	113.36	110.80
3	A1	169	C	C1'-O4'-C4'	-6.39	104.79	109.90
3	A1	278	G	C4-C5-N7	-6.39	108.25	110.80
25	BB	807	U	C2-N3-C4	-6.39	123.17	127.00
25	BB	1568	G	C3'-C2'-C1'	6.39	106.61	101.50
25	BB	2073	C	N3-C4-N4	-6.39	113.53	118.00
39	BP	13	ARG	CD-NE-CZ	6.39	132.54	123.60
1	AE	44	A	C2-N3-C4	6.39	113.79	110.60
3	A1	320	A	N1-C6-N6	-6.39	114.77	118.60
3	A1	377	G	N9-C4-C5	6.39	107.95	105.40
3	A1	629	A	C6-C5-N7	6.39	136.77	132.30
3	A1	768	A	C2'-C3'-O3'	6.39	123.92	113.70
3	A1	1015	G	N7-C8-N9	6.39	116.29	113.10
3	A1	1231	G	N3-C4-C5	-6.39	125.41	128.60
25	BB	309	A	C6-N1-C2	-6.39	114.77	118.60
25	BB	1115	G	N7-C8-N9	6.39	116.29	113.10
25	BB	1131	G	C2-N3-C4	6.39	115.09	111.90
25	BB	1299	G	O4'-C1'-N9	6.39	113.31	108.20
25	BB	1435	G	C3'-C2'-C1'	6.39	106.61	101.50
25	BB	1844	C	C2-N3-C4	-6.39	116.71	119.90
25	BB	1944	U	O4'-C1'-N1	6.39	113.31	108.20
25	BB	2067	G	C4-C5-N7	-6.39	108.25	110.80
25	BB	2091	C	C1'-O4'-C4'	-6.39	104.79	109.90
25	BB	2310	C	N1-C2-O2	6.39	122.73	118.90
25	BB	2484	G	C2-N3-C4	6.39	115.09	111.90
25	BB	2700	A	C8-N9-C4	6.39	108.36	105.80
3	A1	30	U	C3'-C2'-C1'	6.38	106.61	101.50
3	A1	631	C	C3'-C2'-C1'	6.38	106.61	101.50
3	A1	712	A	C4-C5-N7	6.38	113.89	110.70
3	A1	828	U	N1-C2-N3	6.38	118.73	114.90
3	A1	1492	A	C4-C5-N7	-6.38	107.51	110.70
25	BB	885	C	C4-C5-C6	-6.38	114.21	117.40
25	BB	1051	G	C8-N9-C4	-6.38	103.85	106.40
25	BB	2133	G	C6-N1-C2	-6.38	121.27	125.10
25	BB	2473	U	C1'-O4'-C4'	-6.38	104.79	109.90
25	BB	2739	U	C1'-O4'-C4'	-6.38	104.79	109.90
37	BN	8	THR	CA-CB-CG2	6.38	121.34	112.40
1	AE	31	A	N1-C2-N3	6.38	132.49	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	35	G	N1-C6-O6	-6.38	116.07	119.90
3	A1	1126	U	C5-C6-N1	-6.38	119.51	122.70
3	A1	1142	G	C8-N9-C4	-6.38	103.85	106.40
3	A1	1283	U	C5'-C4'-C3'	-6.38	105.79	116.00
25	BB	288	U	C3'-C2'-C1'	6.38	106.61	101.50
25	BB	483	A	C5-C6-N6	6.38	128.81	123.70
25	BB	701	G	C6-C5-N7	6.38	134.23	130.40
25	BB	1669	A	C4'-C3'-C2'	6.38	108.98	102.60
25	BB	1957	C	C3'-C2'-C1'	6.38	106.61	101.50
25	BB	2065	C	C1'-O4'-C4'	-6.38	104.79	109.90
25	BB	2075	U	C3'-C2'-C1'	6.38	106.61	101.50
25	BB	2459	A	P-O3'-C3'	6.38	127.36	119.70
25	BB	2722	G	N1-C6-O6	6.38	123.73	119.90
1	AA	20	G	C4'-C3'-C2'	-6.38	96.22	102.60
1	AP	6	U	C5'-C4'-C3'	-6.38	105.79	116.00
3	A1	7	A	N1-C2-N3	-6.38	126.11	129.30
3	A1	576	C	C5-C6-N1	-6.38	117.81	121.00
3	A1	849	G	O4'-C1'-N9	6.38	113.31	108.20
3	A1	871	U	C5'-C4'-O4'	6.38	116.76	109.10
3	A1	1374	A	C6-N1-C2	-6.38	114.77	118.60
15	AO	65	VAL	CA-CB-CG2	6.38	120.47	110.90
20	AU	69	ARG	NH1-CZ-NH2	-6.38	112.38	119.40
25	BB	155	A	N7-C8-N9	6.38	116.99	113.80
25	BB	1478	G	C5'-C4'-O4'	6.38	116.76	109.10
25	BB	2089	C	O4'-C4'-C3'	6.38	111.20	106.10
25	BB	2201	G	N3-C2-N2	-6.38	115.43	119.90
25	BB	2375	G	C4'-C3'-C2'	-6.38	96.22	102.60
25	BB	2813	A	N3-C4-C5	6.38	131.27	126.80
36	BM	6	ARG	NE-CZ-NH2	-6.38	117.11	120.30
43	BT	51	ARG	CD-NE-CZ	6.38	132.53	123.60
3	A1	86	G	N1-C2-N3	6.38	127.73	123.90
3	A1	173	U	C5-C6-N1	-6.38	119.51	122.70
3	A1	731	G	C2-N3-C4	6.38	115.09	111.90
25	BB	861	A	C4-C5-N7	-6.38	107.51	110.70
25	BB	1782	U	C4'-C3'-C2'	-6.38	96.22	102.60
25	BB	2365	G	N7-C8-N9	6.38	116.29	113.10
25	BB	2547	A	C4'-C3'-C2'	-6.38	96.22	102.60
3	A1	95	C	C4-C5-C6	-6.38	114.21	117.40
3	A1	345	C	C2-N3-C4	-6.38	116.71	119.90
3	A1	448	A	N9-C4-C5	6.38	108.35	105.80
3	A1	725	G	C5-C6-N1	-6.38	108.31	111.50
3	A1	1427	C	C5-C6-N1	6.38	124.19	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	174	U	N3-C4-C5	6.38	118.43	114.60
25	BB	1129	A	N9-C4-C5	-6.38	103.25	105.80
25	BB	1280	G	N1-C2-N3	-6.38	120.07	123.90
25	BB	2292	U	C5'-C4'-O4'	6.38	116.75	109.10
25	BB	2627	G	C5-C6-O6	-6.38	124.77	128.60
1	AE	63	C	N3-C4-C5	6.38	124.45	121.90
3	A1	214	C	C4-C5-C6	6.38	120.59	117.40
3	A1	532	A	O4'-C1'-N9	6.38	113.30	108.20
3	A1	675	A	C2-N3-C4	6.38	113.79	110.60
3	A1	922	G	C6-N1-C2	-6.38	121.27	125.10
3	A1	951	G	N7-C8-N9	6.38	116.29	113.10
3	A1	1212	U	C3'-C2'-C1'	6.38	106.60	101.50
3	A1	1239	A	C5-C6-N6	6.38	128.80	123.70
3	A1	1497	G	C8-N9-C1'	6.38	135.29	127.00
25	BB	17	G	C2-N3-C4	6.38	115.09	111.90
25	BB	97	C	N3-C2-O2	-6.38	117.44	121.90
25	BB	470	A	C6-C5-N7	6.38	136.76	132.30
25	BB	554	U	N1-C2-O2	6.38	127.26	122.80
25	BB	1092	C	N1-C2-N3	6.38	123.66	119.20
25	BB	1303	G	N3-C4-C5	-6.38	125.41	128.60
25	BB	1433	A	C4'-C3'-C2'	6.38	108.98	102.60
25	BB	1811	G	C6-N1-C2	-6.38	121.28	125.10
25	BB	2002	G	C5-N7-C8	-6.38	101.11	104.30
25	BB	2407	A	C6-C5-N7	6.38	136.76	132.30
46	BW	39	ARG	CD-NE-CZ	6.38	132.53	123.60
1	AA	67	A	OP1-P-OP2	-6.38	110.04	119.60
1	AE	14	A	C6-C5-N7	6.38	136.76	132.30
1	AE	55	U	C2-N3-C4	-6.38	123.17	127.00
3	A1	292	G	O4'-C1'-C2'	6.38	113.34	107.60
3	A1	924	C	C4-C5-C6	6.38	120.59	117.40
25	BB	2270	A	C5-C6-N1	6.38	120.89	117.70
3	A1	10	A	C5-N7-C8	-6.37	100.71	103.90
3	A1	175	C	O4'-C1'-C2'	-6.37	99.43	105.80
3	A1	754	C	C3'-C2'-C1'	6.37	106.60	101.50
3	A1	1484	C	C3'-C2'-C1'	6.37	106.60	101.50
25	BB	76	C	C5-C4-N4	-6.37	115.74	120.20
25	BB	418	C	P-O3'-C3'	6.37	127.35	119.70
25	BB	1313	U	N3-C4-C5	6.37	118.42	114.60
25	BB	1358	G	C6-C5-N7	6.37	134.22	130.40
25	BB	1551	A	C8-N9-C4	6.37	108.35	105.80
25	BB	1931	U	C6-N1-C2	-6.37	117.18	121.00
25	BB	2345	G	C6-C5-N7	6.37	134.22	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2718	G	C4-C5-C6	-6.37	114.97	118.80
3	A1	34	C	C6-N1-C2	-6.37	117.75	120.30
3	A1	448	A	C2'-C3'-O3'	6.37	123.89	113.70
3	A1	573	A	C1'-O4'-C4'	-6.37	104.80	109.90
3	A1	714	G	C6-N1-C2	-6.37	121.28	125.10
3	A1	806	C	O4'-C1'-N1	6.37	113.30	108.20
3	A1	820	U	C4-C5-C6	6.37	123.52	119.70
3	A1	1329	A	C5'-C4'-C3'	-6.37	105.81	116.00
25	BB	20	C	C4'-C3'-C2'	-6.37	96.23	102.60
25	BB	711	G	N3-C4-C5	-6.37	125.41	128.60
25	BB	2585	U	N1-C2-N3	6.37	118.72	114.90
25	BB	2614	A	N7-C8-N9	-6.37	110.61	113.80
3	A1	605	U	N3-C2-O2	-6.37	117.74	122.20
3	A1	1129	C	C1'-O4'-C4'	-6.37	104.80	109.90
3	A1	1338	G	C8-N9-C4	-6.37	103.85	106.40
9	AH	76	ARG	NE-CZ-NH1	6.37	123.48	120.30
24	BA	50	A	P-O3'-C3'	6.37	127.34	119.70
25	BB	27	G	C2-N3-C4	-6.37	108.72	111.90
25	BB	402	A	C6-C5-N7	6.37	136.76	132.30
25	BB	555	G	N9-C1'-C2'	6.37	122.28	114.00
25	BB	988	A	C5-N7-C8	-6.37	100.72	103.90
25	BB	1381	G	N9-C4-C5	6.37	107.95	105.40
25	BB	2593	U	C5-C6-N1	-6.37	119.52	122.70
25	BB	2630	G	N1-C6-O6	-6.37	116.08	119.90
1	AP	28	C	C5'-C4'-O4'	6.37	116.74	109.10
1	AP	48	C	N3-C4-C5	6.37	124.45	121.90
3	A1	1048	G	C8-N9-C4	-6.37	103.85	106.40
25	BB	12	U	C6-N1-C2	-6.37	117.18	121.00
25	BB	68	G	C4-C5-N7	6.37	113.35	110.80
25	BB	578	G	C3'-C2'-C1'	-6.37	96.41	101.50
25	BB	814	C	N1-C2-O2	6.37	122.72	118.90
25	BB	1035	U	P-O3'-C3'	6.37	127.34	119.70
25	BB	1831	G	C3'-C2'-C1'	6.37	106.59	101.50
25	BB	2078	C	C5'-C4'-O4'	6.37	116.74	109.10
25	BB	2171	A	N3-C4-C5	-6.37	122.34	126.80
25	BB	2814	A	C1'-O4'-C4'	6.37	115.00	109.90
25	BB	2817	U	N3-C2-O2	-6.37	117.74	122.20
33	BJ	69	ARG	NE-CZ-NH2	6.37	123.48	120.30
55	B6	22	GLY	O-C-N	-6.37	112.51	122.70
1	AA	17	U	C1'-O4'-C4'	-6.37	104.81	109.90
3	A1	38	G	N9-C1'-C2'	6.37	122.28	114.00
3	A1	1082	A	C1'-O4'-C4'	-6.37	104.81	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	44	G	C5-C6-N1	6.37	114.68	111.50
24	BA	83	G	C2-N3-C4	-6.37	108.72	111.90
25	BB	7	G	C5-C6-N1	6.37	114.68	111.50
25	BB	11	C	O4'-C1'-C2'	-6.37	99.43	105.80
25	BB	293	U	O4'-C1'-N1	6.37	113.29	108.20
25	BB	1467	U	C4'-C3'-C2'	-6.37	96.23	102.60
25	BB	1789	A	C6-C5-N7	6.37	136.76	132.30
25	BB	1921	G	C5-C6-N1	6.37	114.68	111.50
25	BB	2313	C	C4'-C3'-C2'	6.37	108.97	102.60
41	BR	10	ARG	NE-CZ-NH2	-6.37	117.12	120.30
3	A1	582	C	O4'-C1'-N1	6.37	113.29	108.20
3	A1	949	A	C8-N9-C4	-6.37	103.25	105.80
3	A1	985	C	N3-C2-O2	-6.37	117.44	121.90
3	A1	1272	G	C3'-C2'-C1'	6.37	106.59	101.50
3	A1	1347	G	P-O5'-C5'	6.37	131.08	120.90
3	A1	1469	C	C5-C6-N1	-6.37	117.82	121.00
25	BB	1069	A	C5-N7-C8	-6.37	100.72	103.90
25	BB	1084	A	C6-N1-C2	6.37	122.42	118.60
25	BB	1287	A	N9-C4-C5	-6.37	103.25	105.80
25	BB	1298	C	C4-C5-C6	-6.37	114.22	117.40
25	BB	1330	C	O4'-C4'-C3'	6.37	111.19	106.10
25	BB	1906	G	P-O3'-C3'	6.37	127.34	119.70
25	BB	2091	C	C6-N1-C1'	-6.37	113.16	120.80
25	BB	2431	U	C2-N3-C4	-6.37	123.18	127.00
25	BB	2549	G	N9-C4-C5	-6.37	102.85	105.40
29	BF	95	LEU	CB-CG-CD1	6.37	121.82	111.00
3	A1	101	A	C3'-C2'-C1'	6.36	106.59	101.50
3	A1	107	G	N9-C4-C5	6.36	107.94	105.40
3	A1	350	G	N3-C4-C5	-6.36	125.42	128.60
3	A1	373	A	N1-C2-N3	-6.36	126.12	129.30
3	A1	1138	G	N7-C8-N9	6.36	116.28	113.10
3	A1	1280	A	C5-C6-N6	6.36	128.79	123.70
3	A1	1382	C	N1-C2-N3	6.36	123.65	119.20
24	BA	68	C	N1-C2-N3	6.36	123.65	119.20
25	BB	245	G	C5-C6-O6	-6.36	124.78	128.60
25	BB	493	G	N9-C4-C5	6.36	107.95	105.40
25	BB	761	A	C4-C5-C6	-6.36	113.82	117.00
25	BB	1216	G	N9-C4-C5	6.36	107.94	105.40
25	BB	1279	G	O3'-P-O5'	-6.36	91.91	104.00
25	BB	1826	G	N3-C4-N9	6.36	129.82	126.00
25	BB	1899	A	C5-C6-N1	6.36	120.88	117.70
25	BB	2350	C	C3'-C2'-C1'	-6.36	96.41	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2535	G	N9-C1'-C2'	-6.36	105.00	112.00
25	BB	2643	G	N7-C8-N9	6.36	116.28	113.10
25	BB	2697	G	N3-C2-N2	-6.36	115.44	119.90
25	BB	430	A	C2-N3-C4	-6.36	107.42	110.60
25	BB	1012	U	O4'-C1'-C2'	-6.36	99.44	105.80
3	A1	124	C	C6-N1-C2	-6.36	117.76	120.30
3	A1	451	A	C4-C5-C6	-6.36	113.82	117.00
3	A1	501	C	N3-C4-N4	-6.36	113.55	118.00
3	A1	993	G	O4'-C1'-N9	6.36	113.29	108.20
3	A1	1080	A	C4-C5-C6	-6.36	113.82	117.00
3	A1	1510	C	C3'-C2'-C1'	-6.36	96.41	101.50
15	AO	163	ARG	NH1-CZ-NH2	-6.36	112.40	119.40
25	BB	9	G	C5-C6-N1	6.36	114.68	111.50
25	BB	439	A	C6-N1-C2	-6.36	114.78	118.60
25	BB	735	A	O4'-C4'-C3'	6.36	111.19	106.10
25	BB	1317	G	N3-C2-N2	-6.36	115.45	119.90
25	BB	1680	U	O5'-C5'-C4'	6.36	123.78	111.70
25	BB	2168	G	C5-C6-N1	6.36	114.68	111.50
25	BB	2223	G	C6-N1-C2	-6.36	121.28	125.10
25	BB	2699	C	C4'-C3'-C2'	6.36	108.96	102.60
25	BB	2768	U	C4'-C3'-C2'	-6.36	96.24	102.60
37	BN	265	PHE	CZ-CE2-CD2	6.36	127.73	120.10
3	A1	688	G	N7-C8-N9	6.36	116.28	113.10
3	A1	1349	A	C5-C6-N6	6.36	128.79	123.70
25	BB	742	A	C3'-C2'-C1'	6.36	106.59	101.50
25	BB	2029	G	C4-C5-C6	-6.36	114.98	118.80
25	BB	2534	A	N1-C2-N3	-6.36	126.12	129.30
1	AA	2	C	O5'-P-OP2	-6.36	99.98	105.70
3	A1	73	C	C1'-O4'-C4'	-6.36	104.81	109.90
3	A1	514	C	C4-C5-C6	-6.36	114.22	117.40
3	A1	547	A	C1'-O4'-C4'	-6.36	104.81	109.90
25	BB	76	C	O4'-C1'-C2'	6.36	113.32	107.60
25	BB	845	A	N9-C4-C5	-6.36	103.26	105.80
25	BB	846	U	N1-C2-N3	6.36	118.71	114.90
25	BB	961	C	C6-N1-C2	-6.36	117.76	120.30
25	BB	1027	A	C4'-C3'-C2'	-6.36	96.24	102.60
25	BB	1027	A	N3-C4-N9	-6.36	122.31	127.40
25	BB	1140	C	C3'-C2'-C1'	-6.36	96.41	101.50
25	BB	1980	G	C6-N1-C2	-6.36	121.28	125.10
25	BB	2253	G	N3-C2-N2	6.36	124.35	119.90
25	BB	2353	G	C4'-C3'-C2'	-6.36	96.24	102.60
25	BB	2668	G	O3'-P-O5'	6.36	116.08	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2700	A	C2-N3-C4	6.36	113.78	110.60
3	A1	790	A	C5-C6-N6	6.36	128.78	123.70
3	A1	1289	A	C5-C6-N6	6.36	128.78	123.70
3	A1	1390	U	C5'-C4'-O4'	6.36	116.73	109.10
3	A1	1533	C	C5-C6-N1	-6.36	117.82	121.00
6	AD	53	ARG	NH1-CZ-NH2	-6.36	112.41	119.40
24	BA	101	A	C1'-O4'-C4'	-6.36	104.82	109.90
25	BB	269	C	N3-C4-N4	-6.36	113.55	118.00
25	BB	377	G	C4-C5-N7	-6.36	108.26	110.80
25	BB	561	G	N1-C2-N2	-6.36	110.48	116.20
25	BB	1069	A	N7-C8-N9	6.36	116.98	113.80
25	BB	1902	C	C5-C4-N4	6.36	124.65	120.20
25	BB	2555	U	C4'-C3'-C2'	6.36	108.95	102.60
25	BB	2681	C	C3'-C2'-C1'	-6.36	96.42	101.50
25	BB	2844	G	C5-N7-C8	-6.36	101.12	104.30
3	A1	49	U	P-O3'-C3'	6.35	127.33	119.70
25	BB	339	U	C3'-C2'-C1'	6.35	106.58	101.50
25	BB	423	A	C6-N1-C2	-6.35	114.79	118.60
25	BB	1336	A	C5-C6-N1	6.35	120.88	117.70
25	BB	1689	A	C2-N3-C4	6.35	113.78	110.60
25	BB	2052	A	O4'-C1'-N9	6.35	113.28	108.20
25	BB	2325	G	C4-C5-N7	-6.35	108.26	110.80
50	B1	170	ARG	NH1-CZ-NH2	-6.35	112.41	119.40
3	A1	1003	G	C3'-C2'-C1'	6.35	106.58	101.50
3	A1	1472	U	C2'-C3'-O3'	6.35	123.86	113.70
25	BB	259	G	N3-C4-C5	-6.35	125.42	128.60
25	BB	607	U	C1'-O4'-C4'	6.35	114.98	109.90
25	BB	867	C	C2'-C3'-O3'	6.35	123.86	113.70
25	BB	1066	U	C5-C6-N1	-6.35	119.52	122.70
25	BB	1430	G	C6-C5-N7	6.35	134.21	130.40
25	BB	1586	A	N7-C8-N9	-6.35	110.62	113.80
25	BB	1731	G	N1-C6-O6	-6.35	116.09	119.90
25	BB	2382	G	N3-C2-N2	-6.35	115.45	119.90
1	AA	37	G	C4'-C3'-C2'	6.35	108.95	102.60
3	A1	447	G	C5'-C4'-O4'	6.35	116.72	109.10
3	A1	1435	G	O4'-C1'-N9	-6.35	103.12	108.20
25	BB	333	G	N3-C4-N9	6.35	129.81	126.00
25	BB	2671	G	C5-N7-C8	6.35	107.47	104.30
48	BY	80	TRP	CD1-NE1-CE2	6.35	114.72	109.00
3	A1	260	G	N3-C2-N2	-6.35	115.45	119.90
3	A1	938	A	C4-C5-N7	-6.35	107.53	110.70
3	A1	1281	C	O4'-C4'-C3'	6.35	111.18	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	AH	52	ARG	CD-NE-CZ	6.35	132.49	123.60
20	AU	107	ALA	N-CA-CB	-6.35	101.21	110.10
25	BB	190	A	C5-C6-N6	6.35	128.78	123.70
25	BB	255	A	N1-C2-N3	-6.35	126.12	129.30
25	BB	655	A	C5'-C4'-O4'	6.35	116.72	109.10
25	BB	1368	G	C3'-C2'-C1'	6.35	106.58	101.50
25	BB	1928	A	C5-N7-C8	-6.35	100.72	103.90
25	BB	2049	G	P-O3'-C3'	6.35	127.32	119.70
25	BB	2177	C	C4'-C3'-C2'	-6.35	96.25	102.60
25	BB	2382	G	N3-C4-C5	-6.35	125.42	128.60
25	BB	2653	U	C5-C6-N1	-6.35	119.53	122.70
25	BB	2848	G	C2-N3-C4	6.35	115.07	111.90
35	BL	110	ARG	NH1-CZ-NH2	-6.35	112.42	119.40
36	BM	53	VAL	CA-CB-CG2	6.35	120.43	110.90
3	A1	43	C	C5'-C4'-O4'	6.35	116.72	109.10
3	A1	130	A	C5-C6-N6	6.35	128.78	123.70
3	A1	629	A	C2-N3-C4	-6.35	107.43	110.60
3	A1	830	G	C5-C6-N1	-6.35	108.33	111.50
3	A1	916	U	N3-C2-O2	-6.35	117.76	122.20
3	A1	1041	G	N3-C4-C5	-6.35	125.43	128.60
3	A1	1274	A	N7-C8-N9	6.35	116.97	113.80
24	BA	113	C	O4'-C1'-N1	6.35	113.28	108.20
25	BB	182	A	N1-C2-N3	-6.35	126.13	129.30
25	BB	251	A	N9-C1'-C2'	-6.35	105.02	112.00
25	BB	1120	G	C5'-C4'-C3'	-6.35	105.85	116.00
25	BB	1922	G	N3-C2-N2	-6.35	115.46	119.90
25	BB	2319	G	N3-C4-C5	-6.35	125.43	128.60
25	BB	2642	G	O5'-C5'-C4'	6.35	123.76	111.70
3	A1	560	A	N1-C2-N3	-6.35	126.13	129.30
3	A1	1268	G	N3-C2-N2	6.35	124.34	119.90
3	A1	1526	G	C5'-C4'-O4'	6.35	116.72	109.10
25	BB	149	A	P-O3'-C3'	6.35	127.31	119.70
25	BB	240	C	N3-C4-N4	-6.35	113.56	118.00
25	BB	643	A	C3'-C2'-C1'	6.35	106.58	101.50
25	BB	1225	G	N9-C4-C5	6.35	107.94	105.40
25	BB	2220	U	C5'-C4'-O4'	6.35	116.72	109.10
25	BB	2250	G	C8-N9-C4	-6.35	103.86	106.40
25	BB	2298	A	C5'-C4'-C3'	-6.35	105.85	116.00
25	BB	2347	C	N3-C2-O2	-6.35	117.46	121.90
36	BM	77	ARG	NH1-CZ-NH2	-6.35	112.42	119.40
3	A1	187	G	P-O3'-C3'	6.34	127.31	119.70
3	A1	546	A	C5'-C4'-C3'	-6.34	105.85	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	760	G	C4-C5-N7	-6.34	108.26	110.80
3	A1	1108	G	C5-C6-N1	6.34	114.67	111.50
3	A1	1338	G	C5-C6-N1	6.34	114.67	111.50
3	A1	1376	U	C6-N1-C2	-6.34	117.19	121.00
3	A1	1491	G	C6-C5-N7	6.34	134.21	130.40
7	AF	34	ALA	N-CA-CB	-6.34	101.22	110.10
25	BB	103	A	C5-C6-N1	6.34	120.87	117.70
25	BB	321	U	N1-C2-O2	6.34	127.24	122.80
25	BB	447	A	C3'-C2'-C1'	6.34	106.58	101.50
25	BB	1285	A	C6-C5-N7	6.34	136.74	132.30
25	BB	1392	A	P-O3'-C3'	6.34	127.31	119.70
3	A1	1016	A	C6-N1-C2	-6.34	114.79	118.60
3	A1	1257	A	C5-C6-N1	6.34	120.87	117.70
3	A1	1367	C	C1'-O4'-C4'	-6.34	104.83	109.90
3	A1	1388	C	C6-N1-C1'	6.34	128.41	120.80
20	AU	149	ALA	N-CA-CB	-6.34	101.22	110.10
25	BB	1659	G	N3-C4-N9	-6.34	122.19	126.00
25	BB	1945	G	N1-C2-N3	6.34	127.71	123.90
25	BB	1971	U	N3-C2-O2	-6.34	117.76	122.20
25	BB	2018	G	O4'-C1'-C2'	-6.34	99.46	105.80
25	BB	2155	U	O4'-C4'-C3'	6.34	111.17	106.10
25	BB	2480	C	N1-C2-O2	6.34	122.71	118.90
25	BB	2543	G	N3-C2-N2	-6.34	115.46	119.90
3	A1	1412	C	C5-C6-N1	-6.34	117.83	121.00
3	A1	1452	C	C1'-O4'-C4'	-6.34	104.83	109.90
3	A1	1503	A	C5-C6-N1	6.34	120.87	117.70
21	AV	65	PHE	CB-CG-CD1	6.34	125.24	120.80
24	BA	14	U	N3-C2-O2	-6.34	117.76	122.20
24	BA	34	A	N7-C8-N9	6.34	116.97	113.80
25	BB	132	G	C4-C5-N7	-6.34	108.26	110.80
25	BB	479	A	C5-N7-C8	-6.34	100.73	103.90
25	BB	1045	C	C5-C6-N1	-6.34	117.83	121.00
25	BB	1215	G	C2-N3-C4	6.34	115.07	111.90
25	BB	1282	U	C4'-C3'-C2'	-6.34	96.26	102.60
25	BB	1467	U	C5'-C4'-O4'	6.34	116.71	109.10
25	BB	1735	A	C3'-C2'-C1'	6.34	106.57	101.50
25	BB	1960	A	O5'-P-OP1	-6.34	99.99	105.70
25	BB	2104	C	C4'-C3'-C2'	-6.34	96.26	102.60
25	BB	2603	G	C4-C5-N7	-6.34	108.26	110.80
25	BB	2614	A	C5-C6-N6	6.34	128.77	123.70
25	BB	2880	C	C4-C5-C6	-6.34	114.23	117.40
1	AE	23	A	C8-N9-C4	-6.34	103.26	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	402	G	N9-C4-C5	6.34	107.94	105.40
3	A1	561	U	C5'-C4'-C3'	-6.34	105.86	116.00
3	A1	654	G	O4'-C1'-C2'	-6.34	99.46	105.80
3	A1	690	G	N1-C6-O6	-6.34	116.10	119.90
3	A1	839	C	N1-C2-O2	6.34	122.70	118.90
3	A1	1022	A	O4'-C4'-C3'	6.34	111.17	106.10
3	A1	1036	A	C5'-C4'-O4'	6.34	116.71	109.10
3	A1	1142	G	C5'-C4'-O4'	6.34	116.71	109.10
4	AB	224	ARG	CD-NE-CZ	6.34	132.48	123.60
24	BA	36	C	C5'-C4'-C3'	-6.34	105.86	116.00
24	BA	101	A	C4-C5-C6	-6.34	113.83	117.00
25	BB	702	U	C3'-C2'-C1'	6.34	106.57	101.50
25	BB	2166	U	C2-N3-C4	6.34	130.80	127.00
25	BB	2321	U	C5'-C4'-O4'	6.34	116.71	109.10
25	BB	2661	G	O5'-P-OP1	-6.34	99.99	105.70
3	A1	473	U	O4'-C1'-C2'	6.34	113.31	107.60
3	A1	1266	G	N9-C4-C5	-6.34	102.86	105.40
25	BB	202	U	O4'-C4'-C3'	-6.34	97.66	104.00
25	BB	930	G	C6-N1-C2	-6.34	121.30	125.10
25	BB	1810	A	C8-N9-C1'	6.34	139.11	127.70
28	BE	66	PHE	CB-CG-CD2	-6.34	116.36	120.80
55	B6	37	ARG	NE-CZ-NH1	6.34	123.47	120.30
2	AM	2	U	N3-C4-C5	-6.34	110.80	114.60
3	A1	32	A	C5'-C4'-O4'	6.34	116.70	109.10
3	A1	316	C	C2-N3-C4	-6.34	116.73	119.90
3	A1	856	C	C1'-O4'-C4'	6.34	114.97	109.90
3	A1	909	A	N1-C6-N6	-6.34	114.80	118.60
25	BB	35	G	N9-C4-C5	6.34	107.94	105.40
25	BB	154	U	N1-C2-N3	6.34	118.70	114.90
25	BB	1634	A	C4'-C3'-C2'	-6.34	96.26	102.60
25	BB	1778	U	C1'-O4'-C4'	-6.34	104.83	109.90
25	BB	1819	A	N7-C8-N9	6.34	116.97	113.80
25	BB	2258	C	N1-C2-N3	6.34	123.64	119.20
25	BB	2326	C	N3-C2-O2	-6.34	117.46	121.90
25	BB	2850	A	N7-C8-N9	-6.34	110.63	113.80
25	BB	2901	C	N3-C4-C5	6.34	124.44	121.90
1	AE	26	G	N3-C4-C5	6.33	131.77	128.60
3	A1	543	U	N3-C2-O2	-6.33	117.77	122.20
3	A1	1273	C	C5-C6-N1	-6.33	117.83	121.00
25	BB	519	U	C5-C6-N1	-6.33	119.53	122.70
25	BB	2659	G	C5-C6-N1	6.33	114.67	111.50
3	A1	395	C	C4'-C3'-C2'	-6.33	96.27	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	601	G	O4'-C4'-C3'	-6.33	97.67	104.00
3	A1	724	G	C2'-C3'-O3'	6.33	123.83	113.70
3	A1	1150	A	N9-C4-C5	-6.33	103.27	105.80
25	BB	56	A	N1-C6-N6	-6.33	114.80	118.60
25	BB	248	G	C5-C6-N1	6.33	114.67	111.50
25	BB	1040	A	C6-C5-N7	6.33	136.73	132.30
25	BB	1327	A	C5-C6-N6	6.33	128.77	123.70
25	BB	1327	A	O5'-P-OP2	6.33	118.30	110.70
25	BB	1572	A	C5'-C4'-O4'	6.33	116.70	109.10
25	BB	2397	G	C5-C6-O6	6.33	132.40	128.60
25	BB	2632	A	C2-N3-C4	6.33	113.77	110.60
1	AP	56	C	C4-C5-C6	6.33	120.57	117.40
2	AM	19	U	C5'-C4'-O4'	6.33	116.70	109.10
3	A1	748	G	N3-C4-N9	6.33	129.80	126.00
3	A1	1131	G	C4-C5-C6	-6.33	115.00	118.80
3	A1	1385	G	N3-C2-N2	-6.33	115.47	119.90
25	BB	291	G	N3-C2-N2	-6.33	115.47	119.90
25	BB	389	G	C5'-C4'-C3'	-6.33	105.87	116.00
25	BB	445	C	N1-C2-N3	6.33	123.63	119.20
25	BB	499	U	O4'-C4'-C3'	6.33	111.17	106.10
25	BB	1263	U	N3-C4-O4	6.33	123.83	119.40
25	BB	1356	G	C2-N3-C4	-6.33	108.73	111.90
25	BB	1410	G	O4'-C1'-C2'	6.33	113.30	107.60
25	BB	1476	U	C1'-O4'-C4'	6.33	114.97	109.90
25	BB	2093	G	O4'-C1'-C2'	6.33	113.30	107.60
25	BB	2159	G	N3-C4-C5	-6.33	125.43	128.60
25	BB	2610	C	N3-C2-O2	-6.33	117.47	121.90
25	BB	2829	A	C6-C5-N7	6.33	136.73	132.30
25	BB	638	G	N1-C2-N2	-6.33	110.50	116.20
25	BB	1941	C	N3-C4-N4	-6.33	113.57	118.00
1	AP	28	C	C4'-C3'-C2'	-6.33	96.27	102.60
2	AM	4	U	C5'-C4'-C3'	6.33	126.12	116.00
3	A1	50	A	C6-N1-C2	-6.33	114.80	118.60
3	A1	87	C	C5-C4-N4	6.33	124.63	120.20
3	A1	1129	C	N3-C4-N4	-6.33	113.57	118.00
25	BB	19	A	N1-C2-N3	-6.33	126.14	129.30
25	BB	259	G	N1-C2-N2	-6.33	110.50	116.20
25	BB	302	C	C5-C4-N4	-6.33	115.77	120.20
25	BB	559	G	N7-C8-N9	6.33	116.26	113.10
25	BB	903	C	C1'-O4'-C4'	-6.33	104.84	109.90
25	BB	1732	C	C6-N1-C2	-6.33	117.77	120.30
25	BB	2025	C	N3-C4-N4	-6.33	113.57	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2590	A	C1'-O4'-C4'	-6.33	104.84	109.90
25	BB	2619	C	C5-C4-N4	6.33	124.63	120.20
25	BB	2729	G	N9-C4-C5	-6.33	102.87	105.40
3	A1	1439	G	C2-N3-C4	6.33	115.06	111.90
16	AQ	14	ALA	CB-CA-C	6.33	119.59	110.10
25	BB	843	G	C5'-C4'-O4'	6.33	116.69	109.10
25	BB	862	G	C4'-C3'-C2'	-6.33	96.27	102.60
25	BB	2135	A	C6-N1-C2	-6.33	114.80	118.60
25	BB	2645	G	C6-C5-N7	-6.33	126.60	130.40
36	BM	69	ARG	NH1-CZ-NH2	-6.33	112.44	119.40
3	A1	115	G	N3-C2-N2	-6.33	115.47	119.90
3	A1	380	G	C5-C6-N1	6.33	114.66	111.50
3	A1	586	C	N3-C4-C5	6.33	124.43	121.90
3	A1	650	G	C6-N1-C2	-6.33	121.31	125.10
3	A1	757	U	N3-C2-O2	-6.33	117.77	122.20
3	A1	1079	G	C5-C6-N1	6.33	114.66	111.50
3	A1	1241	G	C6-C5-N7	6.33	134.19	130.40
3	A1	1368	A	N7-C8-N9	-6.33	110.64	113.80
25	BB	8	C	C5-C4-N4	6.33	124.63	120.20
25	BB	120	U	O4'-C1'-N1	6.33	113.26	108.20
25	BB	187	G	C3'-C2'-C1'	6.33	106.56	101.50
25	BB	204	A	N3-C4-C5	-6.33	122.37	126.80
25	BB	408	G	C5-C6-O6	6.33	132.40	128.60
25	BB	787	C	C1'-O4'-C4'	-6.33	104.84	109.90
25	BB	1158	C	N3-C2-O2	-6.33	117.47	121.90
25	BB	1501	G	N3-C4-N9	6.33	129.79	126.00
25	BB	1938	A	O4'-C1'-N9	6.33	113.26	108.20
25	BB	2134	A	C5-C6-N1	6.33	120.86	117.70
25	BB	2243	U	C5-C6-N1	-6.33	119.54	122.70
25	BB	2549	G	N1-C6-O6	-6.33	116.10	119.90
25	BB	2749	A	C5-C6-N1	6.33	120.86	117.70
42	BS	48	GLN	C-N-CA	6.33	137.51	121.70
1	AP	56	C	C5-C4-N4	6.32	124.63	120.20
3	A1	154	U	O4'-C1'-N1	6.32	113.26	108.20
3	A1	372	C	N3-C4-C5	6.32	124.43	121.90
11	AJ	47	ASP	CB-CG-OD1	-6.32	112.61	118.30
25	BB	231	A	O4'-C1'-N9	6.32	113.26	108.20
25	BB	938	G	C1'-O4'-C4'	-6.32	104.84	109.90
25	BB	1012	U	C5-C6-N1	-6.32	119.54	122.70
25	BB	1213	A	N1-C2-N3	-6.32	126.14	129.30
25	BB	2411	A	C5-C6-N6	6.32	128.76	123.70
27	BD	78	ARG	NH1-CZ-NH2	-6.32	112.44	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
38	BO	17	ASP	CB-CG-OD1	6.32	123.99	118.30
3	A1	163	C	C5-C6-N1	-6.32	117.84	121.00
25	BB	232	G	N1-C2-N3	6.32	127.69	123.90
25	BB	2655	G	C5-N7-C8	-6.32	101.14	104.30
45	BV	14	ARG	NE-CZ-NH2	6.32	123.46	120.30
3	A1	566	G	N3-C4-C5	-6.32	125.44	128.60
3	A1	629	A	N3-C4-C5	6.32	131.22	126.80
25	BB	361	G	C8-N9-C4	-6.32	103.87	106.40
25	BB	723	C	O4'-C1'-C2'	-6.32	99.48	105.80
25	BB	1015	U	C1'-O4'-C4'	-6.32	104.84	109.90
25	BB	1209	U	C5-C6-N1	-6.32	119.54	122.70
25	BB	2060	A	C4-C5-C6	-6.32	113.84	117.00
25	BB	2141	G	N3-C2-N2	-6.32	115.48	119.90
25	BB	2294	G	O4'-C1'-N9	6.32	113.26	108.20
25	BB	2444	G	N3-C2-N2	-6.32	115.48	119.90
25	BB	2877	G	N1-C6-O6	-6.32	116.11	119.90
54	B5	63	ASP	CB-CG-OD1	6.32	123.99	118.30
1	AP	70	C	C5'-C4'-O4'	6.32	116.68	109.10
3	A1	63	C	N3-C4-N4	-6.32	113.58	118.00
25	BB	421	C	O4'-C1'-N1	6.32	113.25	108.20
25	BB	1085	A	C4-C5-C6	-6.32	113.84	117.00
25	BB	1634	A	C3'-C2'-C1'	6.32	106.56	101.50
1	AP	6	U	O4'-C1'-C2'	6.32	113.28	107.60
1	AE	71	G	N9-C1'-C2'	-6.32	105.05	112.00
3	A1	729	A	C3'-C2'-C1'	6.32	106.55	101.50
3	A1	1040	U	C4-C5-C6	6.32	123.49	119.70
3	A1	1065	U	C3'-C2'-C1'	-6.32	96.45	101.50
3	A1	1143	G	N9-C4-C5	6.32	107.93	105.40
3	A1	1286	U	C1'-O4'-C4'	-6.32	104.85	109.90
3	A1	1497	G	N3-C2-N2	-6.32	115.48	119.90
25	BB	390	U	C5'-C4'-C3'	-6.32	105.89	116.00
25	BB	533	G	C5-C6-N1	6.32	114.66	111.50
25	BB	613	A	O4'-C1'-C2'	-6.32	99.48	105.80
25	BB	710	U	C6-N1-C2	-6.32	117.21	121.00
25	BB	886	A	N7-C8-N9	-6.32	110.64	113.80
25	BB	908	C	C2-N3-C4	-6.32	116.74	119.90
25	BB	1459	G	N1-C6-O6	-6.32	116.11	119.90
25	BB	1588	G	C4'-C3'-C2'	-6.32	96.28	102.60
25	BB	1600	C	C5-C6-N1	-6.32	117.84	121.00
25	BB	2352	A	C5-C6-N1	6.32	120.86	117.70
25	BB	2489	U	C5'-C4'-O4'	6.32	116.68	109.10
25	BB	2808	G	C5-C6-O6	6.32	132.39	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	410	G	N1-C6-O6	-6.32	116.11	119.90
3	A1	527	G	N1-C2-N3	-6.32	120.11	123.90
3	A1	1477	U	C4'-C3'-C2'	6.32	108.92	102.60
25	BB	153	U	C6-N1-C2	-6.32	117.21	121.00
25	BB	1082	U	C1'-O4'-C4'	-6.32	104.85	109.90
25	BB	1310	G	C2-N3-C4	6.32	115.06	111.90
25	BB	1489	C	C6-N1-C2	-6.32	117.77	120.30
25	BB	1810	A	C5-C6-N6	6.32	128.75	123.70
25	BB	2333	A	C5-C6-N6	6.32	128.75	123.70
25	BB	2433	A	C1'-O4'-C4'	-6.32	104.85	109.90
25	BB	2851	A	C8-N9-C4	6.32	108.33	105.80
3	A1	290	C	O4'-C1'-C2'	-6.31	99.49	105.80
3	A1	506	G	C5-N7-C8	-6.31	101.14	104.30
23	AX	68	ARG	NH1-CZ-NH2	-6.31	112.45	119.40
25	BB	90	U	C2-N3-C4	-6.31	123.21	127.00
25	BB	1948	G	C5-N7-C8	6.31	107.46	104.30
25	BB	2275	C	N1-C2-N3	6.31	123.62	119.20
25	BB	2362	C	C6-N1-C2	-6.31	117.78	120.30
25	BB	2448	A	C4-C5-N7	-6.31	107.54	110.70
25	BB	2603	G	C2-N3-C4	6.31	115.06	111.90
1	AE	65	G	N3-C2-N2	-6.31	115.48	119.90
3	A1	105	G	C8-N9-C4	-6.31	103.88	106.40
3	A1	188	C	C4'-C3'-C2'	-6.31	96.29	102.60
3	A1	436	C	C6-N1-C2	-6.31	117.78	120.30
24	BA	109	A	C4-C5-C6	-6.31	113.84	117.00
25	BB	28	A	C4-C5-C6	-6.31	113.84	117.00
25	BB	58	G	N3-C4-N9	-6.31	122.21	126.00
25	BB	217	A	C5'-C4'-O4'	6.31	116.68	109.10
25	BB	550	C	N3-C2-O2	-6.31	117.48	121.90
25	BB	660	C	N3-C4-C5	6.31	124.42	121.90
25	BB	822	G	C8-N9-C4	-6.31	103.88	106.40
25	BB	856	G	N1-C2-N3	6.31	127.69	123.90
25	BB	2025	C	N1-C2-O2	6.31	122.69	118.90
25	BB	2274	A	N3-C4-C5	-6.31	122.38	126.80
25	BB	2573	C	N1-C1'-C2'	6.31	122.21	114.00
25	BB	2676	C	P-O3'-C3'	6.31	127.28	119.70
39	BP	65	LYS	CB-CA-C	6.31	123.03	110.40
25	BB	776	G	N1-C6-O6	-6.31	116.11	119.90
25	BB	1702	G	C5-N7-C8	-6.31	101.14	104.30
25	BB	2081	U	N3-C4-O4	-6.31	114.98	119.40
1	AP	11	C	C5-C4-N4	6.31	124.62	120.20
3	A1	128	G	C4'-C3'-C2'	-6.31	96.29	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	549	C	N3-C4-N4	-6.31	113.58	118.00
3	A1	688	G	C4-C5-N7	-6.31	108.28	110.80
3	A1	756	C	N3-C4-N4	-6.31	113.58	118.00
3	A1	949	A	C6-C5-N7	6.31	136.72	132.30
3	A1	1029	U	C5-C4-O4	-6.31	122.11	125.90
3	A1	1094	G	C5'-C4'-O4'	-6.31	101.53	109.10
3	A1	1465	A	N7-C8-N9	6.31	116.95	113.80
24	BA	56	G	N9-C4-C5	6.31	107.92	105.40
25	BB	579	G	N3-C4-N9	6.31	129.79	126.00
25	BB	629	G	N3-C4-C5	-6.31	125.44	128.60
25	BB	1130	U	C2-N1-C1'	6.31	125.27	117.70
25	BB	1410	G	O4'-C4'-C3'	6.31	111.15	106.10
25	BB	1473	G	N3-C4-C5	-6.31	125.45	128.60
25	BB	2256	G	C5-C6-O6	6.31	132.38	128.60
25	BB	2418	A	O4'-C1'-N9	6.31	113.25	108.20
25	BB	2754	U	C6-N1-C2	-6.31	117.21	121.00
1	AE	48	C	C5-C4-N4	-6.31	115.78	120.20
3	A1	327	A	C5'-C4'-C3'	-6.31	105.91	116.00
3	A1	484	G	C6-N1-C2	-6.31	121.31	125.10
3	A1	1171	A	C5-C6-N6	6.31	128.75	123.70
3	A1	1396	A	N3-C4-C5	-6.31	122.39	126.80
24	BA	118	C	C2-N3-C4	-6.31	116.75	119.90
25	BB	380	G	C4-C5-C6	-6.31	115.02	118.80
25	BB	592	A	C5'-C4'-O4'	6.31	116.67	109.10
25	BB	770	G	C4-N9-C1'	-6.31	118.30	126.50
25	BB	1026	G	C3'-C2'-C1'	-6.31	96.45	101.50
25	BB	1031	G	N1-C2-N2	6.31	121.88	116.20
25	BB	1186	G	N3-C4-N9	6.31	129.78	126.00
25	BB	1633	G	C5-N7-C8	6.31	107.45	104.30
25	BB	1791	A	C5-C6-N1	6.31	120.85	117.70
25	BB	2159	G	C2-N3-C4	6.31	115.05	111.90
25	BB	2351	G	N1-C2-N3	6.31	127.69	123.90
25	BB	2671	G	N3-C2-N2	-6.31	115.48	119.90
25	BB	2813	A	C1'-O4'-C4'	-6.31	104.86	109.90
1	AA	53	G	C2-N3-C4	-6.31	108.75	111.90
3	A1	703	G	N1-C2-N2	-6.31	110.52	116.20
25	BB	1072	C	C2-N3-C4	-6.31	116.75	119.90
25	BB	2480	C	N3-C4-C5	6.31	124.42	121.90
25	BB	2744	G	C5-C6-N1	6.31	114.65	111.50
1	AA	24	G	C3'-C2'-C1'	-6.30	96.46	101.50
3	A1	197	A	C6-C5-N7	6.30	136.71	132.30
3	A1	285	C	N1-C2-N3	6.30	123.61	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1155	A	C1'-O4'-C4'	-6.30	104.86	109.90
25	BB	57	C	O4'-C1'-N1	6.30	113.24	108.20
25	BB	326	G	C5-C6-N1	6.30	114.65	111.50
25	BB	627	A	O4'-C4'-C3'	6.30	111.14	106.10
25	BB	761	A	N9-C4-C5	-6.30	103.28	105.80
25	BB	873	C	C4-C5-C6	6.30	120.55	117.40
25	BB	1057	A	N1-C6-N6	-6.30	114.82	118.60
25	BB	1227	G	N3-C2-N2	-6.30	115.49	119.90
25	BB	1877	A	C5-C6-N1	6.30	120.85	117.70
25	BB	1930	G	N3-C4-N9	6.30	129.78	126.00
36	BM	77	ARG	CD-NE-CZ	6.30	132.43	123.60
50	B1	23	PHE	O-C-N	-6.30	112.61	122.70
1	AP	1	G	C8-N9-C4	-6.30	103.88	106.40
3	A1	527	G	C5-C6-O6	6.30	132.38	128.60
3	A1	677	U	C4-C5-C6	6.30	123.48	119.70
3	A1	1443	C	C4-C5-C6	6.30	120.55	117.40
25	BB	160	A	C6-N1-C2	6.30	122.38	118.60
25	BB	406	G	C8-N9-C4	-6.30	103.88	106.40
25	BB	1215	G	N1-C2-N3	-6.30	120.12	123.90
25	BB	1327	A	N3-C4-N9	-6.30	122.36	127.40
25	BB	1388	G	O3'-P-O5'	6.30	115.98	104.00
25	BB	2094	A	C4'-C3'-C2'	-6.30	96.30	102.60
25	BB	2420	C	C1'-O4'-C4'	-6.30	104.86	109.90
49	BZ	212	ALA	N-CA-CB	-6.30	101.28	110.10
3	A1	42	G	N9-C4-C5	-6.30	102.88	105.40
3	A1	131	A	N1-C2-N3	-6.30	126.15	129.30
3	A1	240	G	N1-C2-N2	-6.30	110.53	116.20
3	A1	554	A	N9-C4-C5	-6.30	103.28	105.80
3	A1	661	G	N3-C4-C5	-6.30	125.45	128.60
25	BB	69	C	O4'-C1'-C2'	-6.30	99.50	105.80
25	BB	252	G	N3-C4-C5	-6.30	125.45	128.60
25	BB	496	G	N1-C2-N3	6.30	127.68	123.90
25	BB	597	G	C5-N7-C8	-6.30	101.15	104.30
25	BB	763	G	N1-C2-N2	6.30	121.87	116.20
25	BB	765	C	C2-N3-C4	-6.30	116.75	119.90
25	BB	980	A	C3'-C2'-C1'	6.30	106.54	101.50
25	BB	991	C	C5-C4-N4	-6.30	115.79	120.20
25	BB	1029	A	C5-C6-N1	6.30	120.85	117.70
25	BB	1280	G	C4-C5-C6	-6.30	115.02	118.80
25	BB	2169	A	C5-C6-N1	6.30	120.85	117.70
25	BB	2375	G	C2-N3-C4	6.30	115.05	111.90
25	BB	2445	G	N3-C2-N2	-6.30	115.49	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2538	C	O4'-C1'-N1	-6.30	103.16	108.20
25	BB	2722	G	C4-C5-C6	6.30	122.58	118.80
29	BF	92	TRP	CH2-CZ2-CE2	6.30	123.70	117.40
1	AA	18	G	C8-N9-C4	-6.30	103.88	106.40
3	A1	195	A	N9-C4-C5	6.30	108.32	105.80
3	A1	228	A	C6-C5-N7	6.30	136.71	132.30
3	A1	773	G	N3-C4-C5	-6.30	125.45	128.60
3	A1	1153	G	C3'-C2'-C1'	6.30	106.54	101.50
3	A1	1534	A	C2-N3-C4	6.30	113.75	110.60
25	BB	211	C	N3-C4-N4	6.30	122.41	118.00
25	BB	1606	C	N1-C1'-C2'	6.30	122.19	114.00
25	BB	1781	U	N1-C2-O2	6.30	127.21	122.80
25	BB	2083	G	C4'-C3'-O3'	6.30	125.60	113.00
25	BB	2445	G	C1'-O4'-C4'	-6.30	104.86	109.90
48	BY	54	ALA	N-CA-CB	-6.30	101.28	110.10
1	AE	57	G	C5-C6-N1	6.30	114.65	111.50
25	BB	933	A	C8-N9-C4	-6.30	103.28	105.80
25	BB	2158	A	C6-N1-C2	-6.30	114.82	118.60
25	BB	2407	A	C5-C6-N1	6.30	120.85	117.70
1	AE	20	G	C4-C5-C6	-6.30	115.02	118.80
3	A1	171	A	N1-C2-N3	-6.30	126.15	129.30
3	A1	718	A	C2-N3-C4	6.30	113.75	110.60
3	A1	907	A	C8-N9-C4	-6.30	103.28	105.80
3	A1	948	C	N3-C4-N4	-6.30	113.59	118.00
3	A1	1053	G	C6-C5-N7	6.30	134.18	130.40
3	A1	1178	G	N3-C4-C5	-6.30	125.45	128.60
3	A1	1391	U	O4'-C1'-C2'	6.30	113.27	107.60
6	AD	8	ARG	NE-CZ-NH1	6.30	123.45	120.30
13	AL	36	ARG	C-N-CA	6.30	137.44	121.70
25	BB	25	U	P-O5'-C5'	6.30	130.97	120.90
25	BB	467	G	C4-C5-C6	-6.30	115.02	118.80
25	BB	480	A	C5'-C4'-C3'	-6.30	105.92	116.00
25	BB	561	G	O4'-C1'-N9	-6.30	103.16	108.20
25	BB	857	G	O4'-C1'-N9	6.30	113.24	108.20
25	BB	1206	G	C8-N9-C4	-6.30	103.88	106.40
25	BB	1530	G	N3-C4-N9	6.30	129.78	126.00
25	BB	1621	U	N3-C4-C5	-6.30	110.82	114.60
25	BB	1681	G	C5'-C4'-O4'	6.30	116.66	109.10
3	A1	594	U	C5'-C4'-C3'	-6.29	105.93	116.00
3	A1	1371	G	N1-C6-O6	-6.29	116.12	119.90
3	A1	1479	C	P-O3'-C3'	6.29	127.25	119.70
17	AR	134	TYR	CG-CD2-CE2	-6.29	116.26	121.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	89	A	N3-C4-C5	-6.29	122.39	126.80
25	BB	500	G	N9-C4-C5	6.29	107.92	105.40
25	BB	516	C	N3-C4-N4	-6.29	113.59	118.00
25	BB	606	U	C3'-C2'-C1'	6.29	106.54	101.50
25	BB	770	G	C8-N9-C4	6.29	108.92	106.40
25	BB	848	C	C2-N3-C4	-6.29	116.75	119.90
25	BB	1225	G	C5-C6-O6	6.29	132.38	128.60
25	BB	1449	G	C6-C5-N7	6.29	134.18	130.40
25	BB	2408	U	C5-C6-N1	-6.29	119.55	122.70
25	BB	2454	G	C4-C5-C6	-6.29	115.02	118.80
25	BB	2847	U	O4'-C1'-N1	6.29	113.24	108.20
33	BJ	1	ALA	C-N-CA	6.29	137.44	121.70
1	AA	2	C	O4'-C4'-C3'	6.29	111.14	106.10
1	AA	66	A	C4-C5-C6	-6.29	113.85	117.00
2	AM	3	U	C5-C6-N1	-6.29	119.55	122.70
3	A1	275	G	C5'-C4'-C3'	-6.29	105.93	116.00
3	A1	771	G	N3-C4-N9	-6.29	122.22	126.00
3	A1	869	G	N1-C2-N3	6.29	127.68	123.90
6	AD	30	ARG	NH1-CZ-NH2	-6.29	112.48	119.40
25	BB	16	C	N1-C1'-C2'	6.29	122.18	114.00
25	BB	21	A	N3-C4-C5	6.29	131.21	126.80
25	BB	42	A	C6-C5-N7	6.29	136.71	132.30
25	BB	205	G	N3-C2-N2	-6.29	115.50	119.90
25	BB	2071	A	O4'-C1'-N9	6.29	113.23	108.20
25	BB	2221	G	C1'-O4'-C4'	-6.29	104.86	109.90
25	BB	2490	G	C2'-C3'-O3'	6.29	123.77	113.70
25	BB	2740	A	C2-N3-C4	-6.29	107.45	110.60
3	A1	563	A	N1-C2-N3	-6.29	126.15	129.30
3	A1	788	U	N1-C1'-C2'	-6.29	105.08	112.00
3	A1	899	C	O4'-C4'-C3'	6.29	111.13	106.10
3	A1	1362	A	C4-C5-N7	-6.29	107.55	110.70
25	BB	274	C	O4'-C1'-C2'	-6.29	99.51	105.80
25	BB	349	U	O4'-C1'-C2'	-6.29	99.51	105.80
25	BB	745	G	C6-N1-C2	-6.29	121.33	125.10
25	BB	1354	A	N1-C6-N6	-6.29	114.83	118.60
25	BB	1710	G	C3'-C2'-C1'	6.29	106.53	101.50
25	BB	1713	A	N3-C4-N9	6.29	132.43	127.40
25	BB	1942	C	C3'-C2'-C1'	6.29	106.53	101.50
25	BB	2007	U	N3-C4-O4	6.29	123.80	119.40
25	BB	2730	C	C1'-O4'-C4'	-6.29	104.87	109.90
49	BZ	217	ARG	NE-CZ-NH2	-6.29	117.15	120.30
3	A1	250	A	O4'-C4'-C3'	6.29	111.13	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1358	G	N9-C4-C5	6.29	107.92	105.40
25	BB	1394	U	C5-C4-O4	6.29	129.67	125.90
25	BB	1596	A	C3'-C2'-C1'	6.29	106.53	101.50
25	BB	1983	G	N1-C6-O6	-6.29	116.13	119.90
1	AE	65	G	C6-C5-N7	6.29	134.17	130.40
3	A1	124	C	N3-C4-N4	-6.29	113.60	118.00
3	A1	251	G	C1'-O4'-C4'	-6.29	104.87	109.90
3	A1	633	G	N7-C8-N9	6.29	116.24	113.10
3	A1	688	G	C4'-C3'-C2'	-6.29	96.31	102.60
3	A1	1519	A	C5-C6-N6	6.29	128.73	123.70
24	BA	117	G	O5'-P-OP1	-6.29	100.04	105.70
25	BB	457	A	N3-C4-N9	-6.29	122.37	127.40
25	BB	512	G	C6-C5-N7	6.29	134.17	130.40
25	BB	671	C	O4'-C1'-N1	-6.29	103.17	108.20
25	BB	1239	G	C6-C5-N7	6.29	134.17	130.40
25	BB	1239	G	N7-C8-N9	6.29	116.24	113.10
25	BB	1306	C	C4-C5-C6	6.29	120.54	117.40
25	BB	1501	G	C5-C6-O6	-6.29	124.83	128.60
25	BB	1663	G	C1'-O4'-C4'	-6.29	104.87	109.90
25	BB	1851	U	C3'-C2'-C1'	6.29	106.53	101.50
25	BB	2035	G	C4-C5-N7	-6.29	108.28	110.80
55	B6	63	ALA	N-CA-CB	6.29	118.91	110.10
3	A1	432	A	N3-C4-C5	6.29	131.20	126.80
3	A1	582	C	C1'-O4'-C4'	-6.29	104.87	109.90
3	A1	648	A	C6-N1-C2	-6.29	114.83	118.60
3	A1	1179	A	C5-C6-N6	6.29	128.73	123.70
3	A1	1213	A	O4'-C1'-C2'	6.29	113.26	107.60
11	AJ	61	ARG	NE-CZ-NH1	6.29	123.44	120.30
25	BB	1783	A	C5-C6-N1	6.29	120.84	117.70
25	BB	2279	G	P-O3'-C3'	6.29	127.25	119.70
25	BB	2446	G	C2-N3-C4	6.29	115.04	111.90
1	AA	54	U	C4'-C3'-C2'	-6.29	96.31	102.60
3	A1	38	G	C4'-C3'-C2'	-6.29	96.31	102.60
3	A1	266	G	C4-C5-N7	-6.29	108.29	110.80
3	A1	776	G	P-O3'-C3'	6.29	127.24	119.70
10	AI	8	ARG	NE-CZ-NH1	-6.29	117.16	120.30
25	BB	1596	A	N7-C8-N9	-6.29	110.66	113.80
25	BB	1648	U	N3-C4-C5	-6.29	110.83	114.60
25	BB	2207	C	C5-C6-N1	-6.29	117.86	121.00
25	BB	2283	C	C4-C5-C6	-6.29	114.26	117.40
25	BB	2599	G	C5-C6-N1	6.29	114.64	111.50
25	BB	2658	C	C1'-C2'-O2'	-6.29	91.74	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
51	B2	176	PHE	CZ-CE2-CD2	6.29	127.64	120.10
2	AM	9	U	C5-C6-N1	-6.28	119.56	122.70
3	A1	150	U	C5-C4-O4	-6.28	122.13	125.90
3	A1	576	C	C4-C5-C6	6.28	120.54	117.40
3	A1	800	G	N7-C8-N9	6.28	116.24	113.10
3	A1	950	U	C4-C5-C6	6.28	123.47	119.70
3	A1	1139	G	C4-C5-C6	-6.28	115.03	118.80
11	AJ	32	ILE	CA-CB-CG1	6.28	122.94	111.00
25	BB	812	C	N3-C2-O2	-6.28	117.50	121.90
25	BB	1074	G	C4-C5-C6	-6.28	115.03	118.80
25	BB	1122	G	C4-C5-N7	-6.28	108.29	110.80
25	BB	1171	G	O4'-C4'-C3'	6.28	111.13	106.10
25	BB	1551	A	C5-C6-N1	6.28	120.84	117.70
25	BB	1716	U	C2-N3-C4	-6.28	123.23	127.00
25	BB	1828	G	C5-C6-O6	6.28	132.37	128.60
25	BB	1888	G	O4'-C1'-N9	6.28	113.23	108.20
25	BB	2287	A	N1-C2-N3	-6.28	126.16	129.30
25	BB	2315	G	C1'-O4'-C4'	-6.28	104.87	109.90
25	BB	2409	G	N3-C4-N9	6.28	129.77	126.00
25	BB	2718	G	N3-C2-N2	-6.28	115.50	119.90
26	BC	21	ARG	NH1-CZ-NH2	-6.28	112.49	119.40
1	AE	46	G	O3'-P-O5'	-6.28	92.06	104.00
3	A1	328	C	N3-C2-O2	-6.28	117.50	121.90
3	A1	610	U	C5-C4-O4	6.28	129.67	125.90
25	BB	177	G	C6-C5-N7	6.28	134.17	130.40
25	BB	556	A	C5-N7-C8	6.28	107.04	103.90
25	BB	971	G	N3-C4-N9	6.28	129.77	126.00
25	BB	1869	G	N3-C4-C5	-6.28	125.46	128.60
25	BB	2821	A	C8-N9-C4	6.28	108.31	105.80
1	AA	29	A	C6-C5-N7	6.28	136.70	132.30
3	A1	42	G	N9-C1'-C2'	-6.28	105.09	112.00
3	A1	671	G	O4'-C1'-C2'	6.28	113.25	107.60
3	A1	1251	A	C1'-O4'-C4'	-6.28	104.88	109.90
25	BB	208	C	C5-C4-N4	6.28	124.60	120.20
25	BB	285	G	C5-C6-N1	6.28	114.64	111.50
25	BB	313	G	C3'-C2'-C1'	-6.28	96.48	101.50
25	BB	495	G	C3'-C2'-C1'	6.28	106.52	101.50
25	BB	885	C	N3-C4-N4	-6.28	113.60	118.00
25	BB	1158	C	C5-C6-N1	-6.28	117.86	121.00
25	BB	1690	A	N7-C8-N9	6.28	116.94	113.80
25	BB	1752	C	N3-C4-C5	6.28	124.41	121.90
25	BB	1998	A	C5-N7-C8	-6.28	100.76	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2850	A	N9-C1'-C2'	-6.28	105.09	112.00
33	BJ	27	ARG	NH1-CZ-NH2	-6.28	112.49	119.40
25	BB	941	A	C4'-C3'-C2'	-6.28	96.32	102.60
25	BB	1000	A	C5-N7-C8	-6.28	100.76	103.90
25	BB	2213	U	O4'-C4'-C3'	6.28	111.12	106.10
25	BB	2595	G	C4-N9-C1'	-6.28	118.34	126.50
1	AA	49	C	C4-C5-C6	6.28	120.54	117.40
3	A1	24	U	N3-C2-O2	-6.28	117.81	122.20
3	A1	44	A	C6-C5-N7	6.28	136.69	132.30
3	A1	515	G	C4-C5-N7	6.28	113.31	110.80
3	A1	557	G	C5'-C4'-C3'	-6.28	105.96	116.00
3	A1	1069	C	C4'-C3'-C2'	-6.28	96.32	102.60
3	A1	1106	G	O4'-C1'-C2'	-6.28	99.52	105.80
3	A1	1224	U	N3-C2-O2	-6.28	117.81	122.20
3	A1	1259	C	C5'-C4'-O4'	6.28	116.63	109.10
3	A1	1296	C	O4'-C1'-N1	6.28	113.22	108.20
3	A1	1526	G	N3-C4-C5	-6.28	125.46	128.60
17	AR	12	ARG	CD-NE-CZ	6.28	132.39	123.60
19	AT	42	TRP	CE3-CZ3-CH2	-6.28	114.30	121.20
24	BA	98	G	C5-C6-O6	-6.28	124.83	128.60
25	BB	187	G	C6-N1-C2	-6.28	121.33	125.10
25	BB	583	G	N7-C8-N9	6.28	116.24	113.10
25	BB	726	G	C3'-C2'-C1'	6.28	106.52	101.50
25	BB	1633	G	C3'-C2'-C1'	6.28	106.52	101.50
25	BB	1796	U	C2-N1-C1'	-6.28	110.17	117.70
1	AE	62	A	N3-C4-N9	-6.28	122.38	127.40
3	A1	494	G	C4'-C3'-C2'	-6.28	96.32	102.60
3	A1	1336	C	C2-N3-C4	-6.28	116.76	119.90
3	A1	1418	A	C5'-C4'-C3'	-6.28	105.96	116.00
25	BB	1185	G	N3-C4-C5	-6.28	125.46	128.60
25	BB	1276	A	C3'-C2'-C1'	6.28	106.52	101.50
25	BB	1502	A	N9-C4-C5	-6.28	103.29	105.80
25	BB	2249	U	C1'-O4'-C4'	-6.28	104.88	109.90
25	BB	2639	A	N1-C2-N3	-6.28	126.16	129.30
25	BB	2697	G	N1-C2-N2	6.28	121.85	116.20
49	BZ	87	ARG	NE-CZ-NH2	-6.28	117.16	120.30
11	AJ	11	VAL	CG1-CB-CG2	-6.27	100.86	110.90
25	BB	1560	G	C4-C5-N7	-6.27	108.29	110.80
25	BB	1570	A	N9-C1'-C2'	-6.27	105.10	112.00
25	BB	2000	C	O3'-P-O5'	-6.27	92.08	104.00
25	BB	2103	C	N3-C4-N4	-6.27	113.61	118.00
34	BK	14	VAL	CA-CB-CG2	6.27	120.31	110.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	25	C	C5-C6-N1	6.27	124.14	121.00
3	A1	708	C	N1-C2-N3	6.27	123.59	119.20
3	A1	967	C	C5-C4-N4	-6.27	115.81	120.20
3	A1	1114	C	N3-C4-C5	6.27	124.41	121.90
4	AB	147	LEU	CB-CG-CD2	6.27	121.66	111.00
24	BA	90	C	C6-N1-C2	-6.27	117.79	120.30
24	BA	91	C	C4-C5-C6	6.27	120.54	117.40
25	BB	188	G	N3-C2-N2	-6.27	115.51	119.90
25	BB	265	A	C6-N1-C2	-6.27	114.84	118.60
25	BB	318	C	C3'-C2'-C1'	-6.27	96.48	101.50
25	BB	1286	A	N9-C4-C5	-6.27	103.29	105.80
25	BB	1573	G	C5-C6-N1	6.27	114.64	111.50
25	BB	2238	G	N9-C1'-C2'	-6.27	105.10	112.00
25	BB	2675	A	C3'-C2'-C1'	6.27	106.52	101.50
35	BL	38	TYR	CB-CG-CD2	-6.27	117.24	121.00
3	A1	48	C	C1'-O4'-C4'	-6.27	104.88	109.90
3	A1	122	G	C6-C5-N7	6.27	134.16	130.40
3	A1	1395	C	C5-C4-N4	-6.27	115.81	120.20
3	A1	1409	C	C1'-O4'-C4'	-6.27	104.88	109.90
3	A1	1413	A	C4'-C3'-C2'	-6.27	96.33	102.60
24	BA	81	G	O4'-C1'-C2'	-6.27	99.53	105.80
25	BB	189	G	N9-C4-C5	-6.27	102.89	105.40
25	BB	385	C	N1-C2-O2	6.27	122.66	118.90
25	BB	849	A	N1-C2-N3	-6.27	126.17	129.30
3	A1	1111	A	C4-C5-C6	-6.27	113.86	117.00
4	AB	107	ARG	CD-NE-CZ	6.27	132.38	123.60
25	BB	433	C	N3-C2-O2	-6.27	117.51	121.90
25	BB	721	A	C5-C6-N6	6.27	128.72	123.70
25	BB	983	A	N1-C2-N3	-6.27	126.17	129.30
25	BB	1232	G	N1-C2-N3	6.27	127.66	123.90
25	BB	1672	A	C6-N1-C2	-6.27	114.84	118.60
25	BB	2091	C	C4-C5-C6	6.27	120.53	117.40
25	BB	2495	G	N3-C4-N9	6.27	129.76	126.00
25	BB	2853	C	C5-C6-N1	-6.27	117.86	121.00
25	BB	2859	G	C6-C5-N7	6.27	134.16	130.40
3	A1	621	A	C5-C6-N6	6.27	128.71	123.70
3	A1	935	A	C1'-O4'-C4'	-6.27	104.89	109.90
3	A1	976	G	C4-C5-N7	-6.27	108.29	110.80
25	BB	437	U	C4-C5-C6	6.27	123.46	119.70
25	BB	1022	G	P-O3'-C3'	6.27	127.22	119.70
25	BB	1112	G	C4-C5-N7	-6.27	108.29	110.80
25	BB	1138	G	N9-C4-C5	6.27	107.91	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1613	G	N1-C2-N3	-6.27	120.14	123.90
25	BB	2545	G	N3-C4-C5	-6.27	125.47	128.60
25	BB	2704	C	N3-C2-O2	-6.27	117.51	121.90
1	AA	25	C	C2-N3-C4	-6.27	116.77	119.90
25	BB	131	A	C4'-C3'-C2'	-6.27	96.33	102.60
25	BB	1755	A	N1-C2-N3	-6.27	126.17	129.30
25	BB	2679	A	C5'-C4'-C3'	-6.27	105.97	116.00
3	A1	133	U	O4'-C1'-N1	6.26	113.21	108.20
3	A1	1452	C	C2-N3-C4	-6.26	116.77	119.90
20	AU	30	MET	CG-SD-CE	6.26	110.22	100.20
25	BB	450	G	C5-N7-C8	-6.26	101.17	104.30
25	BB	835	C	N3-C4-C5	6.26	124.41	121.90
25	BB	856	G	N1-C2-N2	-6.26	110.56	116.20
25	BB	883	G	C2-N3-C4	-6.26	108.77	111.90
25	BB	890	C	O4'-C1'-N1	6.26	113.21	108.20
25	BB	915	C	C4'-C3'-C2'	-6.26	96.34	102.60
25	BB	1253	A	C4-C5-C6	-6.26	113.87	117.00
25	BB	1368	G	C5-C6-N1	6.26	114.63	111.50
25	BB	1526	C	C3'-C2'-C1'	6.26	106.51	101.50
25	BB	1836	C	P-O3'-C3'	6.26	127.22	119.70
25	BB	1878	G	C4-C5-N7	-6.26	108.29	110.80
25	BB	2121	G	C8-N9-C4	-6.26	103.89	106.40
25	BB	2461	A	N7-C8-N9	6.26	116.93	113.80
25	BB	2859	G	C4-C5-C6	-6.26	115.04	118.80
37	BN	220	ARG	CD-NE-CZ	6.26	132.37	123.60
25	BB	781	A	C4-C5-N7	6.26	113.83	110.70
1	AA	61	C	N1-C1'-C2'	-6.26	105.11	112.00
1	AP	7	U	N1-C2-N3	6.26	118.66	114.90
1	AE	46	G	N3-C4-C5	-6.26	125.47	128.60
3	A1	147	G	C4-C5-N7	-6.26	108.30	110.80
3	A1	237	G	C4-C5-N7	6.26	113.30	110.80
3	A1	356	A	C4-C5-N7	-6.26	107.57	110.70
3	A1	633	G	N3-C2-N2	-6.26	115.52	119.90
3	A1	1318	A	C5-N7-C8	-6.26	100.77	103.90
3	A1	1480	A	C1'-O4'-C4'	-6.26	104.89	109.90
3	A1	1528	U	N1-C2-O2	6.26	127.18	122.80
24	BA	11	C	C2-N3-C4	6.26	123.03	119.90
25	BB	106	C	C4-C5-C6	6.26	120.53	117.40
25	BB	367	G	N1-C6-O6	-6.26	116.14	119.90
25	BB	724	U	C3'-C2'-C1'	6.26	106.51	101.50
25	BB	779	U	N1-C2-N3	6.26	118.66	114.90
25	BB	969	G	C5-C6-O6	6.26	132.36	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1233	C	C2-N3-C4	-6.26	116.77	119.90
25	BB	1277	G	N3-C2-N2	-6.26	115.52	119.90
25	BB	1488	C	N1-C2-O2	6.26	122.66	118.90
25	BB	1598	A	O4'-C1'-N9	6.26	113.21	108.20
25	BB	1647	U	C5-C4-O4	6.26	129.66	125.90
25	BB	1682	G	C6-N1-C2	-6.26	121.34	125.10
25	BB	1788	C	C2-N3-C4	-6.26	116.77	119.90
25	BB	1900	A	N7-C8-N9	6.26	116.93	113.80
25	BB	1968	G	N3-C4-N9	6.26	129.76	126.00
25	BB	1971	U	C6-N1-C2	-6.26	117.24	121.00
25	BB	1991	U	C5'-C4'-C3'	-6.26	105.98	116.00
25	BB	2135	A	C5-N7-C8	-6.26	100.77	103.90
51	B2	107	VAL	CG1-CB-CG2	-6.26	100.88	110.90
1	AP	9	A	C1'-O4'-C4'	-6.26	104.89	109.90
3	A1	7	A	C4-C5-C6	-6.26	113.87	117.00
3	A1	291	U	N1-C2-N3	6.26	118.66	114.90
3	A1	298	A	C5'-C4'-C3'	-6.26	105.98	116.00
3	A1	371	A	C5-N7-C8	6.26	107.03	103.90
3	A1	402	G	N1-C2-N2	6.26	121.83	116.20
3	A1	821	G	C1'-O4'-C4'	-6.26	104.89	109.90
3	A1	926	G	N9-C4-C5	-6.26	102.90	105.40
3	A1	930	C	C6-N1-C2	6.26	122.80	120.30
23	AX	9	ARG	CD-NE-CZ	6.26	132.36	123.60
25	BB	441	U	C3'-C2'-C1'	6.26	106.51	101.50
25	BB	629	G	C4'-C3'-C2'	-6.26	96.34	102.60
25	BB	651	G	C5'-C4'-O4'	6.26	116.61	109.10
25	BB	707	G	C5-C6-O6	-6.26	124.84	128.60
25	BB	774	G	C5-N7-C8	-6.26	101.17	104.30
25	BB	909	A	C8-N9-C4	-6.26	103.30	105.80
25	BB	1142	A	C8-N9-C4	6.26	108.30	105.80
25	BB	1240	U	O4'-C4'-C3'	6.26	111.11	106.10
25	BB	1540	G	N1-C2-N2	-6.26	110.57	116.20
25	BB	2325	G	N9-C4-C5	6.26	107.90	105.40
25	BB	2769	U	N1-C2-N3	6.26	118.66	114.90
25	BB	2899	A	N1-C6-N6	-6.26	114.84	118.60
37	BN	54	GLY	C-N-CA	6.26	135.45	122.30
3	A1	180	U	N3-C4-O4	6.26	123.78	119.40
19	AT	91	ARG	NE-CZ-NH1	6.26	123.43	120.30
25	BB	1191	G	C4-C5-C6	-6.26	115.05	118.80
25	BB	1733	G	C6-N1-C2	-6.26	121.34	125.10
25	BB	1968	G	N3-C4-C5	-6.26	125.47	128.60
25	BB	2147	A	N3-C4-C5	-6.26	122.42	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2371	G	C5'-C4'-C3'	-6.26	105.99	116.00
25	BB	2607	G	OP1-P-OP2	-6.26	110.21	119.60
51	B2	147	ARG	NE-CZ-NH2	6.26	123.43	120.30
1	AA	26	G	C5'-C4'-O4'	6.26	116.61	109.10
1	AA	49	C	P-O3'-C3'	-6.26	112.19	119.70
3	A1	350	G	C6-N1-C2	6.26	128.85	125.10
3	A1	542	G	N7-C8-N9	6.26	116.23	113.10
3	A1	661	G	N9-C1'-C2'	-6.26	105.12	112.00
3	A1	767	A	C4-C5-C6	-6.26	113.87	117.00
3	A1	1186	G	O4'-C1'-N9	6.26	113.20	108.20
3	A1	1302	C	N3-C4-N4	-6.26	113.62	118.00
3	A1	1494	G	N3-C2-N2	-6.26	115.52	119.90
7	AF	85	TYR	CB-CG-CD1	-6.26	117.25	121.00
24	BA	6	G	N1-C2-N2	-6.26	110.57	116.20
25	BB	285	G	N9-C4-C5	6.26	107.90	105.40
25	BB	626	A	C6-C5-N7	6.26	136.68	132.30
25	BB	924	G	N3-C4-C5	-6.26	125.47	128.60
25	BB	1323	C	C2-N3-C4	-6.26	116.77	119.90
25	BB	1614	A	C3'-C2'-C1'	6.26	106.50	101.50
25	BB	1656	C	O4'-C1'-N1	6.26	113.20	108.20
25	BB	1659	G	C5-C6-N1	6.26	114.63	111.50
25	BB	1699	G	C2-N3-C4	6.26	115.03	111.90
25	BB	2020	A	C2-N3-C4	6.26	113.73	110.60
25	BB	2371	G	N9-C1'-C2'	6.26	122.13	114.00
25	BB	2514	U	N3-C2-O2	-6.26	117.82	122.20
25	BB	2657	A	C4-C5-C6	-6.26	113.87	117.00
25	BB	2722	G	C6-N1-C2	6.26	128.85	125.10
25	BB	2762	C	C3'-C2'-C1'	6.26	106.50	101.50
37	BN	218	THR	CA-CB-CG2	6.26	121.16	112.40
3	A1	897	C	C3'-C2'-C1'	6.25	106.50	101.50
3	A1	1125	U	O4'-C1'-C2'	-6.25	99.55	105.80
5	AC	97	ARG	CD-NE-CZ	6.25	132.36	123.60
24	BA	101	A	O4'-C1'-N9	6.25	113.20	108.20
25	BB	3	U	C5'-C4'-O4'	6.25	116.61	109.10
25	BB	359	G	O4'-C4'-C3'	6.25	111.10	106.10
25	BB	881	G	N9-C4-C5	6.25	107.90	105.40
25	BB	1131	G	O4'-C1'-N9	6.25	113.20	108.20
25	BB	1394	U	C6-N1-C2	-6.25	117.25	121.00
3	A1	101	A	N3-C4-C5	-6.25	122.42	126.80
3	A1	252	U	N1-C2-N3	6.25	118.65	114.90
3	A1	885	G	N3-C4-N9	6.25	129.75	126.00
3	A1	1241	G	C5'-C4'-C3'	-6.25	105.99	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	343	C	C6-N1-C2	6.25	122.80	120.30
25	BB	1698	A	C4-C5-N7	-6.25	107.57	110.70
25	BB	1831	G	C5-C6-N1	6.25	114.63	111.50
25	BB	2253	G	P-O3'-C3'	6.25	127.20	119.70
25	BB	2500	U	C2-N3-C4	-6.25	123.25	127.00
25	BB	2586	U	C4-C5-C6	6.25	123.45	119.70
25	BB	2659	G	C8-N9-C1'	6.25	135.13	127.00
25	BB	2810	A	C4-C5-N7	6.25	113.83	110.70
3	A1	702	A	C2-N3-C4	6.25	113.73	110.60
3	A1	1166	G	C5-N7-C8	6.25	107.43	104.30
3	A1	1275	A	N9-C4-C5	6.25	108.30	105.80
3	A1	1515	G	N3-C4-C5	-6.25	125.47	128.60
25	BB	1017	G	N9-C4-C5	-6.25	102.90	105.40
25	BB	1339	G	N1-C6-O6	-6.25	116.15	119.90
25	BB	1581	G	C8-N9-C4	-6.25	103.90	106.40
25	BB	1671	U	C2-N3-C4	-6.25	123.25	127.00
25	BB	1888	G	N1-C6-O6	-6.25	116.15	119.90
25	BB	2762	C	C4'-C3'-C2'	-6.25	96.35	102.60
32	BI	19	PHE	CB-CG-CD1	-6.25	116.42	120.80
3	A1	779	C	N3-C2-O2	-6.25	117.53	121.90
3	A1	1363	A	C5-C6-N6	6.25	128.70	123.70
3	A1	1462	C	C4'-C3'-C2'	-6.25	96.35	102.60
25	BB	612	G	N1-C6-O6	-6.25	116.15	119.90
25	BB	1211	C	P-O3'-C3'	6.25	127.20	119.70
3	A1	412	A	C8-N9-C4	-6.25	103.30	105.80
3	A1	1008	U	C5-C4-O4	-6.25	122.15	125.90
3	A1	1395	C	O4'-C1'-N1	6.25	113.20	108.20
6	AD	85	ARG	CD-NE-CZ	6.25	132.35	123.60
25	BB	904	G	N9-C1'-C2'	-6.25	105.13	112.00
25	BB	1136	G	N9-C1'-C2'	-6.25	105.13	112.00
25	BB	1411	U	N3-C2-O2	-6.25	117.83	122.20
25	BB	1529	G	N1-C2-N2	6.25	121.82	116.20
25	BB	2015	A	C5'-C4'-O4'	-6.25	101.60	109.10
25	BB	2636	C	N3-C2-O2	-6.25	117.53	121.90
1	AA	6	U	C5'-C4'-O4'	6.25	116.59	109.10
3	A1	123	U	C4-C5-C6	6.25	123.45	119.70
3	A1	725	G	C5-C6-O6	6.25	132.35	128.60
3	A1	834	U	C5-C4-O4	6.25	129.65	125.90
3	A1	953	G	C2-N3-C4	-6.25	108.78	111.90
3	A1	968	A	C5-N7-C8	-6.25	100.78	103.90
3	A1	1134	G	N3-C2-N2	-6.25	115.53	119.90
3	A1	1443	C	O4'-C1'-N1	6.25	113.20	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	121	G	C8-N9-C4	-6.25	103.90	106.40
25	BB	383	C	C5-C4-N4	6.25	124.57	120.20
25	BB	581	C	C6-N1-C2	6.25	122.80	120.30
25	BB	1074	G	N9-C1'-C2'	-6.25	105.13	112.00
25	BB	1174	U	N3-C4-C5	-6.25	110.85	114.60
25	BB	1221	C	C5-C4-N4	-6.25	115.83	120.20
25	BB	1968	G	C2'-C3'-O3'	6.25	123.69	113.70
25	BB	2322	A	C2-N3-C4	6.25	113.72	110.60
25	BB	2343	U	O4'-C1'-N1	6.25	113.20	108.20
25	BB	2422	C	O4'-C1'-N1	6.25	113.20	108.20
25	BB	2578	G	N9-C1'-C2'	6.25	122.12	114.00
25	BB	2628	C	N3-C2-O2	-6.25	117.53	121.90
25	BB	2651	C	O3'-P-O5'	6.25	115.87	104.00
3	A1	200	G	C8-N9-C4	-6.25	103.90	106.40
3	A1	383	A	C5-N7-C8	6.25	107.02	103.90
24	BA	27	C	C2'-C3'-O3'	6.25	123.69	113.70
25	BB	695	G	C4-N9-C1'	-6.25	118.38	126.50
25	BB	982	C	C5'-C4'-O4'	6.25	116.59	109.10
25	BB	1431	A	N1-C2-N3	-6.25	126.18	129.30
25	BB	1658	C	N1-C2-O2	-6.25	115.15	118.90
3	A1	563	A	C2-N3-C4	6.24	113.72	110.60
3	A1	1363	A	C8-N9-C4	-6.24	103.30	105.80
3	A1	1412	C	C2-N3-C4	-6.24	116.78	119.90
12	AK	62	ARG	NH1-CZ-NH2	-6.24	112.53	119.40
25	BB	88	G	N9-C4-C5	6.24	107.90	105.40
25	BB	822	G	N3-C2-N2	-6.24	115.53	119.90
25	BB	890	C	C4-C5-C6	-6.24	114.28	117.40
25	BB	1528	A	C8-N9-C4	6.24	108.30	105.80
25	BB	2141	G	C5-N7-C8	-6.24	101.18	104.30
3	A1	340	U	O4'-C4'-C3'	-6.24	97.76	104.00
18	AS	53	ARG	NH1-CZ-NH2	-6.24	112.53	119.40
25	BB	1011	G	O4'-C1'-N9	6.24	113.19	108.20
25	BB	1062	G	N1-C2-N2	-6.24	110.58	116.20
25	BB	1098	A	C5'-C4'-O4'	6.24	116.59	109.10
25	BB	1916	A	C1'-O4'-C4'	-6.24	104.91	109.90
25	BB	2257	U	N3-C4-O4	6.24	123.77	119.40
25	BB	2378	A	C1'-O4'-C4'	-6.24	104.91	109.90
25	BB	2817	U	C5'-C4'-C3'	-6.24	106.01	116.00
54	B5	59	THR	CA-CB-CG2	-6.24	103.66	112.40
3	A1	202	G	C5'-C4'-O4'	6.24	116.59	109.10
3	A1	672	U	C4-C5-C6	6.24	123.44	119.70
3	A1	1083	U	C6-N1-C2	-6.24	117.26	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1220	G	O4'-C1'-N9	6.24	113.19	108.20
3	A1	1267	C	OP1-P-OP2	-6.24	110.24	119.60
24	BA	43	C	O4'-C1'-N1	6.24	113.19	108.20
25	BB	697	G	C2-N3-C4	6.24	115.02	111.90
25	BB	941	A	C5'-C4'-O4'	6.24	116.59	109.10
25	BB	1336	A	C5-C6-N6	6.24	128.69	123.70
25	BB	2291	U	C4'-C3'-C2'	-6.24	96.36	102.60
25	BB	2780	G	C5'-C4'-O4'	6.24	116.59	109.10
3	A1	213	G	N3-C4-C5	-6.24	125.48	128.60
3	A1	815	A	C5-C6-N6	6.24	128.69	123.70
3	A1	1524	C	N3-C4-N4	-6.24	113.63	118.00
25	BB	180	G	N1-C6-O6	-6.24	116.16	119.90
25	BB	340	A	O3'-P-O5'	6.24	115.85	104.00
25	BB	712	G	N3-C4-C5	-6.24	125.48	128.60
25	BB	1100	C	C3'-C2'-C1'	-6.24	96.51	101.50
25	BB	1786	A	C5-C6-N6	6.24	128.69	123.70
25	BB	1876	A	O4'-C4'-C3'	6.24	111.09	106.10
25	BB	2006	C	O4'-C4'-C3'	6.24	111.09	106.10
25	BB	2098	U	C1'-O4'-C4'	-6.24	104.91	109.90
25	BB	2304	G	N7-C8-N9	6.24	116.22	113.10
25	BB	2536	G	C8-N9-C4	-6.24	103.90	106.40
25	BB	2576	G	N7-C8-N9	-6.24	109.98	113.10
25	BB	2711	A	N7-C8-N9	6.24	116.92	113.80
52	B3	163	TYR	CA-CB-CG	6.24	125.25	113.40
24	BA	53	A	C6-C5-N7	6.24	136.67	132.30
25	BB	119	A	C6-N1-C2	-6.24	114.86	118.60
25	BB	295	G	O4'-C1'-C2'	-6.24	99.56	105.80
25	BB	1115	G	C5-C6-O6	6.24	132.34	128.60
25	BB	1626	A	P-O3'-C3'	6.24	127.18	119.70
25	BB	2363	G	O5'-P-OP1	-6.24	100.09	105.70
1	AP	52	U	C6-N1-C2	-6.24	117.26	121.00
3	A1	84	U	C4-C5-C6	6.24	123.44	119.70
3	A1	287	U	C4'-C3'-C2'	-6.24	96.36	102.60
3	A1	587	G	C2-N3-C4	-6.24	108.78	111.90
3	A1	684	U	C5'-C4'-O4'	6.24	116.58	109.10
3	A1	1182	G	N3-C4-C5	-6.24	125.48	128.60
3	A1	1291	U	C6-N1-C2	-6.24	117.26	121.00
3	A1	1308	U	N1-C1'-C2'	6.24	122.11	114.00
3	A1	1496	C	O5'-P-OP2	-6.24	100.09	105.70
25	BB	345	A	C5-N7-C8	-6.24	100.78	103.90
25	BB	384	A	C5-N7-C8	-6.24	100.78	103.90
25	BB	509	C	C6-N1-C2	-6.24	117.81	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	752	A	C5-C6-N6	6.24	128.69	123.70
25	BB	778	G	N3-C2-N2	-6.24	115.53	119.90
25	BB	1675	C	N1-C2-O2	6.24	122.64	118.90
25	BB	1720	U	N1-C2-N3	6.24	118.64	114.90
25	BB	1990	C	C4-C5-C6	-6.24	114.28	117.40
25	BB	2255	G	O4'-C4'-C3'	6.24	111.09	106.10
25	BB	2432	A	N3-C4-N9	6.24	132.39	127.40
25	BB	2871	U	N3-C2-O2	-6.24	117.83	122.20
3	A1	263	A	C2-N3-C4	-6.23	107.48	110.60
3	A1	1089	G	N7-C8-N9	6.23	116.22	113.10
3	A1	1424	U	N1-C2-O2	6.23	127.16	122.80
25	BB	87	U	C1'-O4'-C4'	6.23	114.89	109.90
25	BB	639	U	C5'-C4'-C3'	-6.23	106.03	116.00
25	BB	894	U	O4'-C1'-C2'	6.23	113.21	107.60
25	BB	1742	U	N3-C4-C5	6.23	118.34	114.60
3	A1	65	A	C8-N9-C4	-6.23	103.31	105.80
3	A1	347	G	C8-N9-C4	-6.23	103.91	106.40
3	A1	494	G	C3'-C2'-C1'	6.23	106.49	101.50
3	A1	671	G	C1'-O4'-C4'	-6.23	104.91	109.90
3	A1	1200	C	N3-C4-N4	-6.23	113.64	118.00
24	BA	30	C	O4'-C4'-C3'	6.23	111.08	106.10
25	BB	163	C	C5'-C4'-O4'	6.23	116.58	109.10
25	BB	503	A	C1'-O4'-C4'	-6.23	104.91	109.90
25	BB	1773	A	C4'-C3'-C2'	-6.23	96.37	102.60
25	BB	1972	G	C4-C5-C6	-6.23	115.06	118.80
25	BB	2508	G	C4-C5-N7	-6.23	108.31	110.80
25	BB	2651	C	N1-C2-N3	6.23	123.56	119.20
1	AP	22	G	N9-C4-C5	6.23	107.89	105.40
1	AE	24	G	N3-C4-N9	6.23	129.74	126.00
3	A1	419	C	C4-C5-C6	-6.23	114.28	117.40
3	A1	446	G	N1-C6-O6	-6.23	116.16	119.90
3	A1	727	G	OP1-P-OP2	-6.23	110.25	119.60
3	A1	1213	A	C5'-C4'-O4'	-6.23	101.62	109.10
25	BB	486	C	O4'-C1'-N1	-6.23	103.22	108.20
25	BB	578	G	C4-C5-C6	-6.23	115.06	118.80
25	BB	1972	G	C4'-C3'-C2'	-6.23	96.37	102.60
25	BB	2013	A	N7-C8-N9	-6.23	110.69	113.80
25	BB	2252	G	C5-N7-C8	-6.23	101.19	104.30
25	BB	2353	G	N1-C6-O6	-6.23	116.16	119.90
25	BB	2583	G	C1'-O4'-C4'	-6.23	104.92	109.90
3	A1	98	A	C2-N3-C4	-6.23	107.49	110.60
3	A1	223	A	C2-N3-C4	6.23	113.71	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1195	C	C4-C5-C6	-6.23	114.28	117.40
25	BB	1104	C	N3-C4-C5	6.23	124.39	121.90
25	BB	1111	A	C5-C6-N1	6.23	120.81	117.70
25	BB	1726	C	N3-C4-N4	-6.23	113.64	118.00
25	BB	2099	U	C5-C6-N1	-6.23	119.58	122.70
25	BB	2530	A	C8-N9-C4	6.23	108.29	105.80
3	A1	388	G	C5-C6-O6	6.23	132.34	128.60
3	A1	873	A	N3-C4-N9	6.23	132.38	127.40
3	A1	1290	G	O4'-C1'-N9	-6.23	103.22	108.20
25	BB	732	C	N1-C2-N3	6.23	123.56	119.20
25	BB	835	C	O4'-C4'-C3'	6.23	111.08	106.10
25	BB	1001	A	N1-C2-N3	6.23	132.41	129.30
25	BB	1233	C	O4'-C1'-N1	-6.23	103.22	108.20
25	BB	1363	C	N3-C4-C5	6.23	124.39	121.90
25	BB	1780	A	C5-C6-N1	6.23	120.81	117.70
1	AA	49	C	C5-C6-N1	-6.23	117.89	121.00
3	A1	431	A	C6-C5-N7	6.23	136.66	132.30
3	A1	1331	G	N1-C6-O6	-6.23	116.17	119.90
21	AV	34	ALA	CB-CA-C	6.23	119.44	110.10
25	BB	279	A	C6-C5-N7	6.23	136.66	132.30
25	BB	664	G	O4'-C1'-N9	6.23	113.18	108.20
25	BB	1622	G	N1-C2-N3	6.23	127.64	123.90
25	BB	1818	U	C5-C6-N1	-6.23	119.59	122.70
25	BB	2024	G	N1-C6-O6	-6.23	116.16	119.90
25	BB	2408	U	N1-C2-O2	6.23	127.16	122.80
1	AA	14	A	C6-C5-N7	6.22	136.66	132.30
3	A1	38	G	N1-C6-O6	-6.22	116.17	119.90
3	A1	40	C	N3-C4-N4	-6.22	113.64	118.00
3	A1	360	G	C5-C6-N1	6.22	114.61	111.50
3	A1	612	C	C5-C4-N4	-6.22	115.84	120.20
3	A1	1371	G	C6-N1-C2	-6.22	121.36	125.10
3	A1	1513	A	C1'-O4'-C4'	-6.22	104.92	109.90
24	BA	52	A	C5-C6-N6	6.22	128.68	123.70
25	BB	65	U	C1'-O4'-C4'	-6.22	104.92	109.90
25	BB	690	G	C8-N9-C1'	6.22	135.09	127.00
25	BB	1572	A	N9-C1'-C2'	-6.22	105.15	112.00
25	BB	1745	A	C3'-C2'-C1'	6.22	106.48	101.50
25	BB	1796	U	C6-N1-C2	6.22	124.73	121.00
25	BB	2169	A	N3-C4-C5	6.22	131.16	126.80
25	BB	2631	G	C2-N3-C4	-6.22	108.79	111.90
1	AE	39	U	C5'-C4'-C3'	-6.22	106.04	116.00
1	AE	76	A	N1-C2-N3	-6.22	126.19	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	17	U	N3-C2-O2	-6.22	117.84	122.20
3	A1	111	G	C5-C6-O6	6.22	132.33	128.60
3	A1	163	C	C2-N3-C4	-6.22	116.79	119.90
3	A1	275	G	C5-N7-C8	-6.22	101.19	104.30
3	A1	992	U	C3'-C2'-C1'	-6.22	96.52	101.50
24	BA	15	A	C8-N9-C4	-6.22	103.31	105.80
25	BB	13	A	N7-C8-N9	-6.22	110.69	113.80
25	BB	425	G	C6-C5-N7	6.22	134.13	130.40
25	BB	454	A	C1'-O4'-C4'	-6.22	104.92	109.90
25	BB	547	A	C6-N1-C2	-6.22	114.87	118.60
25	BB	578	G	N3-C2-N2	-6.22	115.54	119.90
25	BB	634	C	N3-C2-O2	-6.22	117.55	121.90
25	BB	923	G	C3'-C2'-C1'	-6.22	96.52	101.50
25	BB	1143	A	C3'-C2'-C1'	6.22	106.48	101.50
25	BB	1628	G	C2-N3-C4	6.22	115.01	111.90
25	BB	1812	U	N3-C4-C5	-6.22	110.87	114.60
25	BB	2298	A	C4-C5-N7	6.22	113.81	110.70
3	A1	1263	C	C4-C5-C6	6.22	120.51	117.40
3	A1	1323	G	N1-C2-N3	-6.22	120.17	123.90
25	BB	1067	A	C8-N9-C4	-6.22	103.31	105.80
25	BB	1366	A	C5-N7-C8	-6.22	100.79	103.90
25	BB	1559	U	N1-C2-N3	6.22	118.63	114.90
25	BB	1573	G	N3-C4-N9	6.22	129.73	126.00
25	BB	1731	G	N3-C2-N2	-6.22	115.55	119.90
25	BB	2878	U	N3-C2-O2	-6.22	117.84	122.20
2	AM	1	U	C5'-C4'-O4'	6.22	116.56	109.10
3	A1	62	U	C1'-O4'-C4'	6.22	114.88	109.90
3	A1	397	A	C6-C5-N7	6.22	136.65	132.30
3	A1	440	C	N3-C4-N4	-6.22	113.65	118.00
3	A1	938	A	C2'-C3'-O3'	6.22	123.65	113.70
25	BB	360	U	C5-C4-O4	-6.22	122.17	125.90
25	BB	457	A	C2-N3-C4	6.22	113.71	110.60
25	BB	527	C	N3-C4-C5	6.22	124.39	121.90
25	BB	788	A	N3-C4-C5	6.22	131.15	126.80
25	BB	1147	A	C2-N3-C4	6.22	113.71	110.60
25	BB	1395	A	C5-C6-N6	6.22	128.68	123.70
25	BB	2390	U	N1-C1'-C2'	6.22	122.08	114.00
50	B1	79	ARG	CD-NE-CZ	6.22	132.31	123.60
3	A1	409	U	C5-C6-N1	-6.22	119.59	122.70
11	AJ	72	TRP	CD1-NE1-CE2	6.22	114.60	109.00
25	BB	661	A	C5-C6-N6	6.22	128.67	123.70
25	BB	779	U	C2-N3-C4	-6.22	123.27	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1982	U	O4'-C1'-N1	6.22	113.17	108.20
25	BB	2035	G	N3-C2-N2	-6.22	115.55	119.90
25	BB	2895	G	N7-C8-N9	6.22	116.21	113.10
3	A1	492	C	C3'-C2'-C1'	6.22	106.47	101.50
3	A1	825	A	C5-C6-N6	6.22	128.67	123.70
3	A1	1001	C	C2-N3-C4	-6.22	116.79	119.90
19	AT	41	ASP	C-N-CA	6.22	137.24	121.70
25	BB	28	A	O4'-C1'-N9	-6.22	103.23	108.20
25	BB	225	C	C2-N3-C4	-6.22	116.79	119.90
25	BB	269	C	O4'-C1'-C2'	-6.22	99.58	105.80
25	BB	442	G	C5-C6-N1	6.22	114.61	111.50
25	BB	604	G	C4-C5-N7	-6.22	108.31	110.80
25	BB	908	C	O4'-C1'-C2'	6.22	113.19	107.60
25	BB	1457	U	OP1-P-OP2	-6.22	110.28	119.60
25	BB	1535	A	O4'-C1'-N9	6.22	113.17	108.20
25	BB	1659	G	C8-N9-C1'	6.22	135.08	127.00
25	BB	1744	A	C5-C6-N1	6.22	120.81	117.70
25	BB	1824	G	N3-C4-C5	-6.22	125.49	128.60
25	BB	2238	G	C3'-C2'-C1'	-6.22	96.53	101.50
51	B2	94	ARG	NE-CZ-NH2	6.22	123.41	120.30
1	AP	68	U	C3'-C2'-C1'	-6.21	96.53	101.50
3	A1	170	U	C5-C6-N1	-6.21	119.59	122.70
3	A1	314	C	O4'-C1'-N1	6.21	113.17	108.20
3	A1	430	A	C4-C5-N7	-6.21	107.59	110.70
3	A1	682	G	O4'-C1'-C2'	6.21	113.19	107.60
3	A1	831	A	C8-N9-C4	6.21	108.29	105.80
3	A1	1013	G	N9-C1'-C2'	-6.21	105.17	112.00
3	A1	1480	A	C6-N1-C2	-6.21	114.87	118.60
24	BA	18	G	N3-C4-N9	-6.21	122.27	126.00
24	BA	54	G	C5-C6-O6	-6.21	124.87	128.60
25	BB	85	G	N3-C2-N2	-6.21	115.55	119.90
25	BB	474	G	N9-C4-C5	6.21	107.89	105.40
25	BB	477	A	C4-C5-C6	-6.21	113.89	117.00
25	BB	776	G	O4'-C1'-N9	6.21	113.17	108.20
25	BB	1503	A	O4'-C1'-N9	-6.21	103.23	108.20
25	BB	1634	A	P-O3'-C3'	6.21	127.16	119.70
25	BB	2444	G	N1-C6-O6	-6.21	116.17	119.90
25	BB	2630	G	C4-C5-N7	-6.21	108.31	110.80
25	BB	2750	A	C5-N7-C8	-6.21	100.79	103.90
25	BB	2753	A	C5-C6-N6	6.21	128.67	123.70
31	BH	99	TYR	CB-CG-CD2	-6.21	117.27	121.00
1	AP	1	G	C4'-C3'-C2'	-6.21	96.39	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	234	C	N3-C4-N4	-6.21	113.65	118.00
3	A1	1022	A	C1'-O4'-C4'	-6.21	104.93	109.90
3	A1	1041	G	C6-N1-C2	-6.21	121.37	125.10
3	A1	1495	U	N1-C1'-C2'	6.21	122.08	114.00
25	BB	500	G	N7-C8-N9	6.21	116.21	113.10
25	BB	726	G	N3-C4-N9	6.21	129.73	126.00
25	BB	755	U	C4'-C3'-C2'	-6.21	96.39	102.60
25	BB	1372	U	C2-N3-C4	-6.21	123.27	127.00
25	BB	2265	U	O4'-C1'-N1	6.21	113.17	108.20
1	AA	16	U	C2'-C3'-O3'	6.21	123.64	113.70
3	A1	238	A	C3'-C2'-C1'	6.21	106.47	101.50
3	A1	373	A	C4-C5-N7	-6.21	107.59	110.70
3	A1	610	U	C2-N1-C1'	6.21	125.15	117.70
3	A1	771	G	O4'-C1'-N9	6.21	113.17	108.20
3	A1	818	G	C4-C5-C6	-6.21	115.07	118.80
3	A1	967	C	N1-C2-N3	6.21	123.55	119.20
3	A1	1278	G	C4-C5-N7	6.21	113.28	110.80
3	A1	1371	G	N9-C4-C5	6.21	107.89	105.40
24	BA	76	G	N3-C4-N9	-6.21	122.27	126.00
25	BB	81	G	C1'-O4'-C4'	-6.21	104.93	109.90
25	BB	334	C	N1-C1'-C2'	6.21	122.08	114.00
25	BB	372	G	C5'-C4'-C3'	-6.21	106.06	116.00
25	BB	375	G	C6-C5-N7	6.21	134.13	130.40
25	BB	735	A	C6-C5-N7	6.21	136.65	132.30
25	BB	1033	U	C4-C5-C6	-6.21	115.97	119.70
25	BB	1533	C	C5-C6-N1	-6.21	117.89	121.00
25	BB	1876	A	C5-C6-N6	6.21	128.67	123.70
25	BB	2126	A	C4-C5-N7	-6.21	107.59	110.70
25	BB	2324	U	O4'-C4'-C3'	6.21	111.07	106.10
25	BB	2364	C	N1-C2-N3	6.21	123.55	119.20
25	BB	2592	G	N3-C4-C5	-6.21	125.49	128.60
25	BB	2894	G	C2-N3-C4	6.21	115.01	111.90
25	BB	2898	U	N3-C2-O2	-6.21	117.85	122.20
3	A1	166	U	O4'-C1'-N1	-6.21	103.23	108.20
3	A1	1137	C	C5'-C4'-O4'	6.21	116.55	109.10
25	BB	35	G	O4'-C4'-C3'	6.21	111.07	106.10
25	BB	176	A	C5-N7-C8	6.21	107.00	103.90
25	BB	1593	A	N3-C4-C5	-6.21	122.45	126.80
25	BB	2872	A	C3'-C2'-C1'	-6.21	96.53	101.50
1	AA	73	A	P-O3'-C3'	6.21	127.15	119.70
3	A1	138	G	C2-N3-C4	6.21	115.00	111.90
24	BA	29	A	C1'-O4'-C4'	-6.21	104.93	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	62	U	O3'-P-O5'	-6.21	92.21	104.00
25	BB	384	A	N3-C4-N9	-6.21	122.43	127.40
25	BB	853	C	N3-C4-N4	-6.21	113.65	118.00
25	BB	1304	A	C8-N9-C4	-6.21	103.32	105.80
25	BB	1324	G	C5-N7-C8	-6.21	101.19	104.30
25	BB	1553	A	C5'-C4'-C3'	-6.21	106.07	116.00
25	BB	1719	G	C6-C5-N7	6.21	134.12	130.40
25	BB	1801	A	C6-C5-N7	6.21	136.65	132.30
25	BB	1826	G	C5-N7-C8	6.21	107.40	104.30
25	BB	1896	G	N3-C4-C5	-6.21	125.50	128.60
25	BB	2227	A	N1-C2-N3	-6.21	126.19	129.30
25	BB	2310	C	C5-C6-N1	-6.21	117.90	121.00
25	BB	2733	A	C5-N7-C8	6.21	107.00	103.90
25	BB	2761	A	C6-N1-C2	6.21	122.33	118.60
52	B3	37	ASN	N-CA-CB	-6.21	99.42	110.60
1	AE	33	U	P-O3'-C3'	6.21	127.15	119.70
3	A1	30	U	C6-N1-C2	-6.21	117.28	121.00
3	A1	390	U	N3-C4-O4	-6.21	115.06	119.40
3	A1	425	G	C5'-C4'-O4'	6.21	116.55	109.10
3	A1	459	A	C1'-O4'-C4'	6.21	114.86	109.90
3	A1	604	G	N3-C4-N9	6.21	129.72	126.00
3	A1	1225	A	C2'-C3'-O3'	6.21	123.63	113.70
3	A1	1437	A	N3-C4-C5	6.21	131.15	126.80
15	AO	106	ARG	CD-NE-CZ	6.21	132.29	123.60
25	BB	119	A	C5-C6-N6	6.21	128.66	123.70
25	BB	208	C	C4-C5-C6	-6.21	114.30	117.40
25	BB	288	U	C1'-O4'-C4'	6.21	114.86	109.90
25	BB	1429	G	N7-C8-N9	6.21	116.20	113.10
25	BB	1635	A	N1-C6-N6	-6.21	114.88	118.60
25	BB	1730	C	O4'-C1'-N1	6.21	113.17	108.20
25	BB	2209	G	C3'-C2'-C1'	6.21	106.47	101.50
25	BB	2677	G	O4'-C1'-N9	6.21	113.17	108.20
25	BB	2725	A	C4'-C3'-C2'	-6.21	96.39	102.60
3	A1	53	A	C5-C6-N1	6.21	120.80	117.70
3	A1	1395	C	C5'-C4'-C3'	-6.21	106.07	116.00
3	A1	1517	G	N1-C2-N3	-6.21	120.18	123.90
25	BB	174	U	O4'-C1'-N1	6.21	113.16	108.20
25	BB	320	A	O4'-C1'-C2'	-6.21	99.59	105.80
25	BB	1483	G	N3-C2-N2	-6.21	115.56	119.90
25	BB	2188	U	C5'-C4'-C3'	-6.21	106.07	116.00
3	A1	18	C	C5-C6-N1	6.20	124.10	121.00
3	A1	101	A	C5-C6-N1	6.20	120.80	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	820	U	N1-C2-O2	6.20	127.14	122.80
3	A1	838	G	N1-C2-N3	6.20	127.62	123.90
3	A1	1175	G	C8-N9-C4	-6.20	103.92	106.40
9	AH	13	GLU	CB-CA-C	-6.20	97.99	110.40
25	BB	126	A	N7-C8-N9	-6.20	110.70	113.80
25	BB	750	A	C6-C5-N7	6.20	136.64	132.30
25	BB	1044	C	C2-N3-C4	-6.20	116.80	119.90
25	BB	1183	U	O4'-C1'-N1	6.20	113.16	108.20
25	BB	1557	C	N3-C2-O2	-6.20	117.56	121.90
25	BB	1810	A	O4'-C4'-C3'	-6.20	97.80	104.00
25	BB	1908	C	N1-C2-N3	6.20	123.54	119.20
25	BB	2012	G	C4-C5-N7	6.20	113.28	110.80
25	BB	2038	G	C4-C5-C6	-6.20	115.08	118.80
25	BB	2811	G	N3-C4-C5	6.20	131.70	128.60
30	BG	122	ALA	N-CA-CB	-6.20	101.42	110.10
51	B2	2	LYS	C-N-CA	6.20	137.21	121.70
54	B5	21	PRO	N-CA-CB	6.20	110.74	103.30
3	A1	780	A	C5-N7-C8	-6.20	100.80	103.90
3	A1	1047	G	C6-C5-N7	6.20	134.12	130.40
3	A1	1405	G	N9-C4-C5	6.20	107.88	105.40
3	A1	1439	G	C5'-C4'-C3'	-6.20	106.08	116.00
25	BB	675	A	C6-C5-N7	6.20	136.64	132.30
25	BB	847	U	C5-C6-N1	-6.20	119.60	122.70
25	BB	1805	A	N3-C4-C5	-6.20	122.46	126.80
25	BB	2539	C	C3'-C2'-C1'	6.20	106.46	101.50
25	BB	2635	A	OP1-P-O3'	6.20	118.84	105.20
1	AP	26	G	N9-C4-C5	6.20	107.88	105.40
3	A1	316	C	N1-C2-N3	6.20	123.54	119.20
3	A1	415	A	C4-C5-C6	-6.20	113.90	117.00
3	A1	872	A	C3'-C2'-C1'	6.20	106.46	101.50
20	AU	150	PHE	CB-CG-CD2	6.20	125.14	120.80
21	AV	79	ARG	N-CA-CB	-6.20	99.44	110.60
24	BA	95	U	C4-C5-C6	6.20	123.42	119.70
25	BB	778	G	C8-N9-C4	-6.20	103.92	106.40
25	BB	1179	G	C5-N7-C8	-6.20	101.20	104.30
25	BB	1261	C	C5-C6-N1	-6.20	117.90	121.00
25	BB	1715	G	N9-C4-C5	6.20	107.88	105.40
25	BB	2100	G	C5-N7-C8	6.20	107.40	104.30
25	BB	2674	G	O4'-C1'-N9	6.20	113.16	108.20
27	BD	121	GLU	C-N-CA	6.20	137.20	121.70
46	BW	26	ALA	C-N-CA	6.20	137.20	121.70
3	A1	287	U	C4-C5-C6	6.20	123.42	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	301	G	C5-C6-O6	-6.20	124.88	128.60
3	A1	567	G	N1-C2-N3	-6.20	120.18	123.90
3	A1	670	G	C6-N1-C2	-6.20	121.38	125.10
3	A1	741	G	C5-C6-N1	6.20	114.60	111.50
3	A1	775	G	C1'-O4'-C4'	-6.20	104.94	109.90
3	A1	799	G	N1-C2-N3	6.20	127.62	123.90
3	A1	802	A	C6-N1-C2	-6.20	114.88	118.60
3	A1	918	A	C4-C5-C6	-6.20	113.90	117.00
3	A1	1282	C	C2-N3-C4	-6.20	116.80	119.90
25	BB	237	C	C4-C5-C6	-6.20	114.30	117.40
25	BB	782	A	C5-N7-C8	-6.20	100.80	103.90
25	BB	1966	A	O4'-C1'-N9	-6.20	103.24	108.20
25	BB	2095	A	C5'-C4'-O4'	6.20	116.54	109.10
25	BB	2497	A	C5-N7-C8	6.20	107.00	103.90
25	BB	2709	G	C2-N3-C4	6.20	115.00	111.90
25	BB	2710	C	C4'-C3'-C2'	-6.20	96.40	102.60
25	BB	2733	A	N9-C4-C5	6.20	108.28	105.80
31	BH	47	VAL	CG1-CB-CG2	6.20	120.82	110.90
1	AP	62	A	C5-C6-N1	6.20	120.80	117.70
3	A1	161	A	C5-C6-N1	6.20	120.80	117.70
25	BB	120	U	C5'-C4'-O4'	6.20	116.54	109.10
25	BB	731	C	C5-C6-N1	-6.20	117.90	121.00
25	BB	1758	U	O4'-C4'-C3'	6.20	111.06	106.10
25	BB	2362	C	N3-C2-O2	-6.20	117.56	121.90
40	BQ	48	ARG	NE-CZ-NH1	6.20	123.40	120.30
1	AE	14	A	N7-C8-N9	6.20	116.90	113.80
2	AM	1	U	C1'-O4'-C4'	-6.20	104.94	109.90
3	A1	258	G	N3-C4-N9	6.20	129.72	126.00
3	A1	360	G	N3-C4-C5	-6.20	125.50	128.60
3	A1	1133	G	N9-C4-C5	-6.20	102.92	105.40
5	AC	92	ARG	NE-CZ-NH2	-6.20	117.20	120.30
24	BA	59	A	C8-N9-C4	-6.20	103.32	105.80
25	BB	167	A	C2-N3-C4	6.20	113.70	110.60
25	BB	254	G	N3-C4-N9	6.20	129.72	126.00
25	BB	465	G	C4-C5-C6	-6.20	115.08	118.80
25	BB	1038	G	C4'-C3'-C2'	-6.20	96.41	102.60
25	BB	1924	C	C5-C4-N4	-6.20	115.86	120.20
25	BB	2654	A	C5-N7-C8	-6.20	100.80	103.90
3	A1	112	G	C5'-C4'-O4'	6.19	116.53	109.10
3	A1	301	G	C6-N1-C2	-6.19	121.38	125.10
3	A1	358	U	O4'-C1'-N1	6.19	113.16	108.20
3	A1	1405	G	C6-N1-C2	-6.19	121.38	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1677	A	C5-C6-N6	6.19	128.66	123.70
25	BB	1833	C	N1-C2-O2	6.19	122.62	118.90
25	BB	2437	G	C5-C6-N1	6.19	114.60	111.50
25	BB	2631	G	P-O3'-C3'	6.19	127.13	119.70
25	BB	2739	U	C4'-C3'-C2'	-6.19	96.41	102.60
25	BB	2826	A	N3-C4-C5	-6.19	122.46	126.80
1	AA	6	U	C2-N3-C4	-6.19	123.28	127.00
1	AA	65	G	C8-N9-C4	-6.19	103.92	106.40
1	AP	19	G	C8-N9-C4	-6.19	103.92	106.40
3	A1	349	A	O4'-C4'-C3'	6.19	111.06	106.10
3	A1	377	G	C8-N9-C4	-6.19	103.92	106.40
3	A1	612	C	N3-C2-O2	-6.19	117.57	121.90
3	A1	889	A	N1-C2-N3	6.19	132.40	129.30
3	A1	1110	A	C1'-O4'-C4'	-6.19	104.94	109.90
3	A1	1222	G	N3-C4-C5	6.19	131.70	128.60
24	BA	34	A	C5-N7-C8	-6.19	100.80	103.90
25	BB	321	U	C5'-C4'-O4'	-6.19	101.67	109.10
25	BB	629	G	N3-C2-N2	-6.19	115.56	119.90
25	BB	644	A	C5-C6-N6	6.19	128.66	123.70
25	BB	1011	G	C8-N9-C4	-6.19	103.92	106.40
25	BB	1262	A	C5-C6-N6	6.19	128.65	123.70
25	BB	1756	G	N3-C2-N2	-6.19	115.56	119.90
25	BB	1844	C	C6-N1-C2	-6.19	117.82	120.30
25	BB	2331	G	C4-C5-C6	-6.19	115.08	118.80
25	BB	2437	G	N9-C4-C5	6.19	107.88	105.40
1	AE	23	A	C4-C5-C6	-6.19	113.91	117.00
3	A1	164	G	C6-C5-N7	6.19	134.11	130.40
3	A1	709	U	C4'-C3'-C2'	-6.19	96.41	102.60
3	A1	1381	U	C5-C6-N1	-6.19	119.61	122.70
3	A1	1479	C	C4-C5-C6	6.19	120.50	117.40
25	BB	637	A	N1-C2-N3	-6.19	126.20	129.30
25	BB	970	U	C5-C6-N1	-6.19	119.61	122.70
25	BB	991	C	C4'-C3'-C2'	-6.19	96.41	102.60
25	BB	1188	U	C5-C4-O4	-6.19	122.19	125.90
25	BB	1826	G	N3-C2-N2	-6.19	115.57	119.90
25	BB	2359	C	N3-C2-O2	-6.19	117.57	121.90
25	BB	2706	A	C2-N3-C4	6.19	113.69	110.60
25	BB	2803	G	O4'-C1'-C2'	6.19	113.17	107.60
1	AA	44	A	C6-C5-N7	6.19	136.63	132.30
3	A1	18	C	C2-N3-C4	-6.19	116.81	119.90
3	A1	649	A	N9-C4-C5	6.19	108.28	105.80
3	A1	699	C	C5-C6-N1	6.19	124.09	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1182	G	C4-C5-C6	-6.19	115.09	118.80
3	A1	1452	C	N1-C2-O2	6.19	122.61	118.90
3	A1	1531	A	C5'-C4'-C3'	-6.19	106.10	116.00
20	AU	94	ARG	NE-CZ-NH2	-6.19	117.20	120.30
25	BB	195	A	N9-C1'-C2'	-6.19	105.19	112.00
25	BB	393	C	C5-C4-N4	6.19	124.53	120.20
25	BB	1269	A	C1'-O4'-C4'	6.19	114.85	109.90
25	BB	1501	G	C5'-C4'-C3'	-6.19	106.10	116.00
25	BB	1808	A	C2-N3-C4	6.19	113.69	110.60
1	AE	40	C	C4'-C3'-C2'	-6.19	96.41	102.60
3	A1	387	U	O4'-C1'-N1	6.19	113.15	108.20
3	A1	633	G	C4-C5-N7	6.19	113.28	110.80
3	A1	858	G	C4'-C3'-C2'	-6.19	96.41	102.60
3	A1	962	C	N1-C2-N3	6.19	123.53	119.20
5	AC	36	ARG	NH1-CZ-NH2	-6.19	112.59	119.40
24	BA	92	C	N3-C2-O2	-6.19	117.57	121.90
25	BB	313	G	N9-C4-C5	-6.19	102.92	105.40
25	BB	743	A	C5-C6-N6	6.19	128.65	123.70
25	BB	1503	A	C3'-C2'-C1'	6.19	106.45	101.50
25	BB	1847	A	O4'-C4'-C3'	6.19	111.05	106.10
25	BB	2577	A	C4-C5-C6	-6.19	113.91	117.00
1	AA	16	U	O4'-C1'-N1	6.19	113.15	108.20
3	A1	800	G	C8-N9-C1'	6.19	135.04	127.00
3	A1	962	C	N3-C4-C5	6.19	124.38	121.90
3	A1	1013	G	O4'-C1'-N9	6.19	113.15	108.20
3	A1	1077	G	C5-C6-N1	-6.19	108.41	111.50
3	A1	1167	A	N9-C1'-C2'	6.19	122.04	114.00
3	A1	1281	C	O4'-C1'-N1	6.19	113.15	108.20
3	A1	824	G	C6-C5-N7	6.18	134.11	130.40
3	A1	922	G	N3-C4-C5	-6.18	125.51	128.60
3	A1	1221	G	P-O3'-C3'	6.18	127.12	119.70
3	A1	1519	A	C4-C5-N7	-6.18	107.61	110.70
4	AB	62	ARG	NH1-CZ-NH2	-6.18	112.60	119.40
25	BB	1090	A	C2-N3-C4	6.18	113.69	110.60
25	BB	1121	C	C5'-C4'-C3'	-6.18	106.10	116.00
25	BB	1190	G	C4-N9-C1'	6.18	134.54	126.50
25	BB	1623	G	C5-C6-N1	6.18	114.59	111.50
25	BB	1739	A	C4'-C3'-C2'	6.18	108.78	102.60
25	BB	1889	A	P-O3'-C3'	6.18	127.12	119.70
25	BB	1983	G	N1-C2-N3	6.18	127.61	123.90
25	BB	2067	G	C6-C5-N7	6.18	134.11	130.40
25	BB	2138	G	N3-C2-N2	-6.18	115.57	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2273	A	C8-N9-C4	-6.18	103.33	105.80
25	BB	2305	U	C2-N3-C4	-6.18	123.29	127.00
25	BB	2332	C	C4-C5-C6	6.18	120.49	117.40
25	BB	2421	G	N1-C6-O6	-6.18	116.19	119.90
25	BB	2838	G	C4-C5-C6	-6.18	115.09	118.80
3	A1	1162	C	C2-N3-C4	-6.18	116.81	119.90
3	A1	1362	A	C2-N3-C4	6.18	113.69	110.60
3	A1	1529	G	N3-C4-C5	-6.18	125.51	128.60
24	BA	44	G	C4-C5-N7	6.18	113.27	110.80
25	BB	466	A	C4-C5-N7	-6.18	107.61	110.70
25	BB	1513	U	C5-C6-N1	-6.18	119.61	122.70
25	BB	1528	A	C1'-O4'-C4'	-6.18	104.95	109.90
25	BB	1611	C	C4-C5-C6	-6.18	114.31	117.40
25	BB	1677	A	C8-N9-C4	6.18	108.27	105.80
25	BB	1761	C	C5-C4-N4	6.18	124.53	120.20
25	BB	2431	U	N1-C2-N3	6.18	118.61	114.90
25	BB	2673	G	N1-C2-N2	6.18	121.76	116.20
37	BN	211	ARG	NE-CZ-NH2	6.18	123.39	120.30
3	A1	38	G	C5-N7-C8	6.18	107.39	104.30
3	A1	517	G	C5-C6-O6	6.18	132.31	128.60
3	A1	1217	C	C2-N3-C4	-6.18	116.81	119.90
25	BB	220	G	N3-C4-C5	-6.18	125.51	128.60
25	BB	233	A	C5'-C4'-C3'	-6.18	106.11	116.00
25	BB	247	G	N9-C4-C5	6.18	107.87	105.40
25	BB	446	G	C3'-C2'-C1'	6.18	106.44	101.50
25	BB	640	C	N3-C2-O2	-6.18	117.57	121.90
25	BB	1068	G	N9-C4-C5	6.18	107.87	105.40
25	BB	1824	G	O3'-P-O5'	-6.18	92.25	104.00
25	BB	1932	A	C6-N1-C2	6.18	122.31	118.60
52	B3	93	TYR	CD1-CE1-CZ	6.18	125.36	119.80
3	A1	56	U	C5'-C4'-C3'	-6.18	106.11	116.00
3	A1	94	G	C1'-O4'-C4'	-6.18	104.96	109.90
3	A1	639	G	N1-C2-N3	6.18	127.61	123.90
3	A1	1320	C	C4'-C3'-C2'	-6.18	96.42	102.60
25	BB	365	U	C5'-C4'-O4'	-6.18	101.69	109.10
25	BB	385	C	N1-C1'-C2'	6.18	122.03	114.00
25	BB	810	U	C4'-C3'-C2'	-6.18	96.42	102.60
25	BB	890	C	C5'-C4'-C3'	-6.18	106.11	116.00
25	BB	1145	C	C1'-O4'-C4'	-6.18	104.96	109.90
25	BB	1671	U	N1-C2-N3	6.18	118.61	114.90
3	A1	103	U	N3-C4-O4	6.18	123.72	119.40
3	A1	127	G	C4'-C3'-C2'	-6.18	96.42	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	248	C	O4'-C1'-N1	6.18	113.14	108.20
3	A1	482	A	C6-N1-C2	-6.18	114.89	118.60
3	A1	587	G	C4-C5-N7	6.18	113.27	110.80
3	A1	1181	G	C8-N9-C4	6.18	108.87	106.40
25	BB	630	G	N7-C8-N9	6.18	116.19	113.10
25	BB	1058	U	N1-C2-O2	6.18	127.12	122.80
25	BB	1770	G	N3-C2-N2	-6.18	115.58	119.90
25	BB	2445	G	O5'-C5'-C4'	-6.18	99.96	111.70
1	AE	10	G	N1-C2-N2	-6.18	110.64	116.20
3	A1	1013	G	C5-N7-C8	-6.18	101.21	104.30
3	A1	1397	C	O4'-C1'-C2'	6.18	113.16	107.60
24	BA	35	C	N3-C4-C5	6.18	124.37	121.90
25	BB	189	G	C5'-C4'-C3'	-6.18	106.12	116.00
25	BB	473	G	N1-C2-N3	6.18	127.61	123.90
25	BB	784	G	O4'-C1'-N9	6.18	113.14	108.20
25	BB	831	G	C2-N3-C4	6.18	114.99	111.90
25	BB	1229	C	O4'-C4'-C3'	-6.18	97.82	104.00
25	BB	2340	A	C1'-O4'-C4'	-6.18	104.96	109.90
3	A1	272	C	C4-C5-C6	-6.17	114.31	117.40
3	A1	339	C	O4'-C4'-C3'	-6.17	97.83	104.00
3	A1	351	G	N3-C4-N9	-6.17	122.30	126.00
3	A1	371	A	N3-C4-N9	-6.17	122.46	127.40
3	A1	959	A	C5-C6-N6	6.17	128.64	123.70
3	A1	1179	A	O5'-P-OP1	-6.17	100.14	105.70
3	A1	1410	A	C4'-C3'-C2'	-6.17	96.42	102.60
6	AD	98	ARG	NH1-CZ-NH2	-6.17	112.61	119.40
24	BA	6	G	C5-N7-C8	-6.17	101.21	104.30
24	BA	24	G	C6-C5-N7	6.17	134.10	130.40
25	BB	88	G	C2-N3-C4	6.17	114.99	111.90
25	BB	617	G	C3'-C2'-C1'	6.17	106.44	101.50
25	BB	1381	G	N1-C6-O6	-6.17	116.19	119.90
25	BB	1614	A	C6-C5-N7	6.17	136.62	132.30
25	BB	2116	G	C8-N9-C4	-6.17	103.93	106.40
25	BB	2366	A	C6-C5-N7	6.17	136.62	132.30
25	BB	2540	C	C5'-C4'-C3'	6.17	125.88	116.00
25	BB	2613	U	C5-C6-N1	-6.17	119.61	122.70
3	A1	428	G	O4'-C1'-N9	-6.17	103.26	108.20
3	A1	606	G	N3-C4-C5	-6.17	125.51	128.60
3	A1	1184	G	C3'-C2'-C1'	6.17	106.44	101.50
25	BB	93	G	C4-C5-C6	-6.17	115.10	118.80
25	BB	756	A	C2-N3-C4	6.17	113.69	110.60
25	BB	1150	C	C2'-C3'-O3'	6.17	123.58	113.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2168	G	N1-C2-N3	6.17	127.60	123.90
25	BB	2196	C	O4'-C1'-C2'	-6.17	99.63	105.80
25	BB	2258	C	N1-C2-O2	6.17	122.60	118.90
1	AE	57	G	N9-C4-C5	-6.17	102.93	105.40
2	AM	9	U	N1-C2-N3	6.17	118.60	114.90
3	A1	202	G	O4'-C4'-C3'	6.17	111.04	106.10
3	A1	253	A	C2-N3-C4	6.17	113.69	110.60
3	A1	394	G	N7-C8-N9	-6.17	110.01	113.10
3	A1	762	U	C5'-C4'-O4'	6.17	116.51	109.10
3	A1	836	G	C5'-C4'-C3'	6.17	125.87	116.00
3	A1	1128	C	N3-C4-C5	6.17	124.37	121.90
3	A1	1452	C	N3-C2-O2	-6.17	117.58	121.90
3	A1	1513	A	N9-C1'-C2'	-6.17	105.21	112.00
24	BA	47	C	C5-C6-N1	-6.17	117.92	121.00
25	BB	270	A	C5-N7-C8	-6.17	100.81	103.90
25	BB	312	G	C6-C5-N7	6.17	134.10	130.40
25	BB	625	G	O4'-C1'-N9	6.17	113.14	108.20
25	BB	659	G	C2-N3-C4	-6.17	108.81	111.90
25	BB	845	A	C1'-O4'-C4'	-6.17	104.96	109.90
25	BB	1496	A	C5-C6-N1	6.17	120.79	117.70
25	BB	1501	G	C4-C5-N7	6.17	113.27	110.80
25	BB	1587	G	N3-C4-C5	-6.17	125.52	128.60
25	BB	1789	A	C5'-C4'-O4'	6.17	116.51	109.10
25	BB	2533	U	C6-N1-C2	-6.17	117.30	121.00
25	BB	2782	G	C5-N7-C8	-6.17	101.21	104.30
25	BB	2877	G	N1-C2-N3	6.17	127.60	123.90
27	BD	73	ASP	CB-CG-OD2	6.17	123.85	118.30
3	A1	1241	G	N9-C1'-C2'	-6.17	105.21	112.00
3	A1	1372	U	C5'-C4'-O4'	6.17	116.50	109.10
25	BB	904	G	C5-N7-C8	-6.17	101.22	104.30
25	BB	1050	A	C6-C5-N7	6.17	136.62	132.30
25	BB	1259	G	C1'-O4'-C4'	6.17	114.84	109.90
25	BB	1919	A	N1-C2-N3	-6.17	126.22	129.30
50	B1	173	THR	CA-C-N	6.17	128.54	116.20
2	AM	9	U	O4'-C1'-C2'	6.17	113.15	107.60
3	A1	516	U	C5'-C4'-C3'	-6.17	106.13	116.00
3	A1	747	A	C5-C6-N1	6.17	120.78	117.70
3	A1	1086	U	O4'-C4'-C3'	6.17	111.03	106.10
3	A1	1286	U	C3'-C2'-C1'	-6.17	96.57	101.50
3	A1	1334	G	N9-C4-C5	6.17	107.87	105.40
3	A1	1368	A	O4'-C4'-C3'	6.17	111.04	106.10
8	AG	23	ARG	NE-CZ-NH1	6.17	123.38	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	AX	61	ALA	CB-CA-C	6.17	119.35	110.10
24	BA	6	G	C4-N9-C1'	-6.17	118.48	126.50
25	BB	470	A	N1-C2-N3	-6.17	126.22	129.30
25	BB	745	G	O4'-C1'-N9	-6.17	103.27	108.20
25	BB	1330	C	N3-C2-O2	-6.17	117.58	121.90
25	BB	1648	U	N1-C2-N3	6.17	118.60	114.90
25	BB	1753	G	C4-C5-C6	-6.17	115.10	118.80
25	BB	2434	A	C5-N7-C8	-6.17	100.82	103.90
38	BO	93	ARG	NH1-CZ-NH2	-6.17	112.61	119.40
1	AE	66	A	C6-C5-N7	6.17	136.62	132.30
3	A1	109	A	C4-C5-C6	-6.17	113.92	117.00
3	A1	1247	U	C5'-C4'-O4'	6.17	116.50	109.10
25	BB	463	G	N3-C4-C5	-6.17	125.52	128.60
25	BB	557	C	N3-C2-O2	-6.17	117.58	121.90
25	BB	597	G	C4-C5-N7	6.17	113.27	110.80
25	BB	652	U	C3'-C2'-C1'	6.17	106.43	101.50
25	BB	794	A	C5'-C4'-O4'	6.17	116.50	109.10
25	BB	927	A	C5-C6-N6	6.17	128.63	123.70
25	BB	1638	C	O4'-C4'-C3'	-6.17	97.83	104.00
25	BB	2442	C	C4-C5-C6	6.17	120.48	117.40
25	BB	2533	U	C5-C4-O4	6.17	129.60	125.90
38	BO	40	LEU	CB-CA-C	6.17	121.92	110.20
52	B3	163	TYR	CB-CG-CD1	-6.17	117.30	121.00
53	B4	148	ALA	N-CA-CB	-6.17	101.47	110.10
1	AP	36	A	C5-C6-N1	6.17	120.78	117.70
3	A1	712	A	N1-C2-N3	-6.17	126.22	129.30
3	A1	1228	C	C1'-O4'-C4'	-6.17	104.97	109.90
24	BA	27	C	C6-N1-C1'	-6.17	113.40	120.80
25	BB	173	A	C4-C5-C6	-6.17	113.92	117.00
25	BB	2363	G	N1-C6-O6	6.17	123.60	119.90
3	A1	55	A	C5-C6-N1	6.16	120.78	117.70
3	A1	251	G	C3'-C2'-C1'	-6.16	96.57	101.50
3	A1	998	C	O4'-C4'-C3'	6.16	111.03	106.10
3	A1	1083	U	N1-C2-O2	6.16	127.11	122.80
3	A1	1260	G	N1-C2-N3	6.16	127.60	123.90
25	BB	245	G	N1-C2-N3	6.16	127.60	123.90
25	BB	363	G	N9-C4-C5	-6.16	102.93	105.40
25	BB	592	A	C8-N9-C4	6.16	108.27	105.80
25	BB	643	A	N7-C8-N9	-6.16	110.72	113.80
25	BB	689	A	P-O3'-C3'	-6.16	112.31	119.70
25	BB	764	A	C8-N9-C4	-6.16	103.33	105.80
25	BB	1441	G	N3-C4-C5	6.16	131.68	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1675	C	O5'-P-OP1	6.16	118.10	110.70
25	BB	1794	A	C6-C5-N7	6.16	136.61	132.30
25	BB	1810	A	C2'-C3'-O3'	6.16	123.56	113.70
25	BB	2500	U	C5'-C4'-C3'	6.16	125.86	116.00
25	BB	2543	G	C5-N7-C8	-6.16	101.22	104.30
25	BB	2613	U	O4'-C1'-N1	6.16	113.13	108.20
25	BB	2756	U	N1-C2-N3	6.16	118.60	114.90
25	BB	2879	A	C4-C5-N7	6.16	113.78	110.70
3	A1	307	C	C6-N1-C2	-6.16	117.83	120.30
3	A1	692	U	C2-N3-C4	-6.16	123.30	127.00
3	A1	1396	A	N1-C2-N3	-6.16	126.22	129.30
24	BA	115	A	C5-C6-N6	6.16	128.63	123.70
25	BB	213	A	C5'-C4'-C3'	-6.16	106.14	116.00
25	BB	1440	U	O4'-C1'-N1	6.16	113.13	108.20
25	BB	1746	A	C5-C6-N6	6.16	128.63	123.70
25	BB	1970	A	C4-C5-C6	-6.16	113.92	117.00
25	BB	2623	G	C6-C5-N7	6.16	134.10	130.40
25	BB	2902	C	N3-C4-N4	-6.16	113.69	118.00
50	B1	74	LYS	C-N-CA	6.16	137.10	121.70
1	AP	8	U	N1-C1'-C2'	-6.16	105.22	112.00
1	AE	26	G	N1-C2-N3	6.16	127.60	123.90
3	A1	381	C	O4'-C4'-C3'	6.16	111.03	106.10
3	A1	543	U	N3-C4-O4	-6.16	115.09	119.40
3	A1	646	G	N3-C4-N9	6.16	129.70	126.00
3	A1	712	A	O4'-C1'-C2'	6.16	113.14	107.60
3	A1	766	A	N1-C2-N3	6.16	132.38	129.30
3	A1	867	G	N3-C4-C5	-6.16	125.52	128.60
3	A1	1000	A	C1'-O4'-C4'	-6.16	104.97	109.90
3	A1	1416	G	N9-C4-C5	6.16	107.86	105.40
3	A1	1504	G	C3'-C2'-C1'	-6.16	96.57	101.50
24	BA	118	C	N3-C4-C5	6.16	124.36	121.90
25	BB	198	C	O3'-P-O5'	6.16	115.71	104.00
25	BB	616	A	P-O3'-C3'	6.16	127.09	119.70
25	BB	654	A	C1'-O4'-C4'	-6.16	104.97	109.90
25	BB	1008	A	N1-C6-N6	-6.16	114.90	118.60
25	BB	1025	G	C4'-C3'-C2'	-6.16	96.44	102.60
25	BB	1394	U	C5'-C4'-C3'	-6.16	106.14	116.00
25	BB	1420	A	C5'-C4'-O4'	6.16	116.49	109.10
25	BB	1588	G	C6-N1-C2	-6.16	121.40	125.10
25	BB	2093	G	C5-N7-C8	6.16	107.38	104.30
25	BB	2383	G	C5-N7-C8	6.16	107.38	104.30
1	AE	6	U	C5-C4-O4	6.16	129.59	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	84	U	N3-C2-O2	-6.16	117.89	122.20
3	A1	418	C	N1-C2-N3	6.16	123.51	119.20
3	A1	554	A	O3'-P-O5'	6.16	115.70	104.00
3	A1	680	C	C2'-C3'-O3'	6.16	123.55	113.70
3	A1	834	U	C2-N3-C4	-6.16	123.31	127.00
3	A1	1505	G	N1-C6-O6	-6.16	116.20	119.90
15	AO	191	THR	N-CA-C	6.16	127.63	111.00
20	AU	43	TYR	CB-CG-CD1	-6.16	117.31	121.00
25	BB	71	A	N1-C2-N3	-6.16	126.22	129.30
25	BB	575	A	N3-C4-C5	-6.16	122.49	126.80
25	BB	703	U	O4'-C1'-N1	-6.16	103.27	108.20
25	BB	892	A	N1-C2-N3	-6.16	126.22	129.30
25	BB	1344	U	C5'-C4'-C3'	-6.16	106.15	116.00
25	BB	1846	G	C6-N1-C2	6.16	128.79	125.10
25	BB	2438	U	N1-C1'-C2'	6.16	122.00	114.00
1	AE	6	U	C3'-C2'-C1'	6.16	106.43	101.50
3	A1	665	A	N3-C4-C5	-6.16	122.49	126.80
3	A1	917	G	N1-C2-N3	6.16	127.59	123.90
25	BB	312	G	O4'-C1'-N9	-6.16	103.27	108.20
25	BB	1392	A	C5-C6-N6	6.16	128.62	123.70
25	BB	1714	U	N1-C2-N3	6.16	118.59	114.90
25	BB	1918	A	N1-C2-N3	-6.16	126.22	129.30
1	AP	43	G	C4-C5-C6	-6.16	115.11	118.80
3	A1	731	G	C5-N7-C8	-6.16	101.22	104.30
3	A1	1179	A	C6-C5-N7	6.16	136.61	132.30
3	A1	1326	U	C5'-C4'-O4'	-6.16	101.71	109.10
25	BB	376	G	C5'-C4'-C3'	-6.16	106.15	116.00
25	BB	621	A	C5-C6-N1	6.16	120.78	117.70
25	BB	956	G	O4'-C1'-C2'	6.16	113.14	107.60
25	BB	1162	G	C4-C5-N7	-6.16	108.34	110.80
25	BB	1464	G	C4-C5-N7	-6.16	108.34	110.80
25	BB	1592	C	N3-C4-C5	6.16	124.36	121.90
25	BB	1832	C	C3'-C2'-C1'	6.16	106.42	101.50
25	BB	2088	A	N1-C2-N3	-6.16	126.22	129.30
25	BB	2341	G	C4'-C3'-C2'	-6.16	96.44	102.60
25	BB	2386	A	O4'-C4'-C3'	6.16	111.03	106.10
25	BB	2542	A	N7-C8-N9	6.16	116.88	113.80
25	BB	2607	G	N3-C4-N9	6.16	129.69	126.00
48	BY	197	THR	CB-CA-C	-6.16	94.98	111.60
1	AP	69	U	C4'-C3'-C2'	-6.15	96.45	102.60
3	A1	131	A	C6-C5-N7	6.15	136.61	132.30
3	A1	289	G	C4'-C3'-C2'	-6.15	96.45	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	704	A	C3'-C2'-C1'	-6.15	96.58	101.50
3	A1	863	U	O4'-C1'-N1	-6.15	103.28	108.20
3	A1	883	C	C5-C4-N4	6.15	124.51	120.20
3	A1	1215	G	C8-N9-C1'	6.15	135.00	127.00
25	BB	443	A	C5-C6-N1	6.15	120.78	117.70
25	BB	1289	C	O4'-C1'-N1	6.15	113.12	108.20
25	BB	2141	G	C3'-C2'-C1'	6.15	106.42	101.50
25	BB	2749	A	N3-C4-N9	6.15	132.32	127.40
3	A1	148	G	C3'-C2'-C1'	-6.15	96.58	101.50
3	A1	257	G	N1-C2-N3	6.15	127.59	123.90
3	A1	259	G	C2-N3-C4	6.15	114.98	111.90
3	A1	259	G	C5-C6-N1	6.15	114.58	111.50
3	A1	293	G	C8-N9-C4	-6.15	103.94	106.40
3	A1	381	C	C6-N1-C2	6.15	122.76	120.30
3	A1	511	C	C1'-O4'-C4'	-6.15	104.98	109.90
3	A1	603	U	N3-C2-O2	-6.15	117.89	122.20
15	AO	143	LEU	CB-CG-CD2	6.15	121.46	111.00
25	BB	172	A	C5'-C4'-O4'	6.15	116.48	109.10
25	BB	272	A	O4'-C1'-N9	6.15	113.12	108.20
25	BB	294	A	C5-C6-N6	6.15	128.62	123.70
25	BB	837	C	N3-C4-C5	6.15	124.36	121.90
25	BB	984	A	C5'-C4'-O4'	6.15	116.48	109.10
25	BB	1133	A	C5-N7-C8	-6.15	100.82	103.90
25	BB	1831	G	N3-C4-C5	-6.15	125.52	128.60
25	BB	1974	C	N3-C4-N4	-6.15	113.69	118.00
25	BB	2589	A	C3'-C2'-C1'	-6.15	96.58	101.50
29	BF	136	MET	CA-CB-CG	6.15	123.76	113.30
30	BG	94	TYR	CB-CG-CD2	-6.15	117.31	121.00
3	A1	503	C	C2'-C3'-O3'	6.15	123.54	113.70
3	A1	665	A	C4'-C3'-C2'	-6.15	96.45	102.60
3	A1	683	G	O4'-C1'-N9	6.15	113.12	108.20
3	A1	942	G	O5'-C5'-C4'	-6.15	100.01	111.70
3	A1	1011	C	C6-N1-C2	-6.15	117.84	120.30
3	A1	1021	A	O4'-C1'-N9	-6.15	103.28	108.20
3	A1	1042	A	O5'-C5'-C4'	-6.15	100.02	111.70
3	A1	1101	A	C8-N9-C4	6.15	108.26	105.80
3	A1	1402	C	C1'-O4'-C4'	6.15	114.82	109.90
3	A1	1515	G	N3-C4-N9	6.15	129.69	126.00
25	BB	637	A	C1'-O4'-C4'	-6.15	104.98	109.90
25	BB	693	A	N3-C4-C5	-6.15	122.50	126.80
25	BB	1468	U	C2'-C3'-O3'	6.15	123.54	113.70
25	BB	1499	C	C6-N1-C1'	6.15	128.18	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1550	C	C2-N3-C4	-6.15	116.83	119.90
25	BB	1580	A	C2'-C3'-O3'	6.15	123.54	113.70
25	BB	1818	U	N1-C2-N3	6.15	118.59	114.90
25	BB	1867	G	N1-C6-O6	-6.15	116.21	119.90
25	BB	2187	U	C2-N3-C4	-6.15	123.31	127.00
25	BB	2227	A	N3-C4-N9	6.15	132.32	127.40
25	BB	2289	G	N1-C2-N2	-6.15	110.66	116.20
25	BB	2596	U	C5-C6-N1	-6.15	119.62	122.70
37	BN	160	TYR	CB-CG-CD2	6.15	124.69	121.00
3	A1	6	G	N3-C2-N2	-6.15	115.60	119.90
3	A1	548	G	C6-C5-N7	-6.15	126.71	130.40
3	A1	1309	G	C4-C5-C6	-6.15	115.11	118.80
24	BA	88	C	C4-C5-C6	6.15	120.47	117.40
25	BB	166	U	O4'-C1'-N1	6.15	113.12	108.20
25	BB	407	G	C5-C6-N1	6.15	114.57	111.50
25	BB	774	G	C4-C5-N7	6.15	113.26	110.80
25	BB	927	A	C5-N7-C8	-6.15	100.83	103.90
25	BB	1013	C	N1-C2-N3	6.15	123.50	119.20
25	BB	1325	U	C4'-C3'-C2'	-6.15	96.45	102.60
25	BB	1757	A	C3'-C2'-C1'	6.15	106.42	101.50
25	BB	2156	G	C6-N1-C2	-6.15	121.41	125.10
1	AP	35	A	C5'-C4'-C3'	-6.15	106.16	116.00
3	A1	623	C	C6-N1-C2	-6.15	117.84	120.30
3	A1	1117	A	C4-C5-N7	-6.15	107.63	110.70
3	A1	1153	G	C4'-C3'-C2'	-6.15	96.45	102.60
3	A1	1170	A	N3-C4-C5	-6.15	122.50	126.80
25	BB	57	C	C1'-O4'-C4'	6.15	114.82	109.90
25	BB	505	A	C5-C6-N6	6.15	128.62	123.70
25	BB	609	A	C2-N3-C4	6.15	113.67	110.60
25	BB	637	A	C5'-C4'-O4'	-6.15	101.72	109.10
25	BB	661	A	C4-C5-C6	-6.15	113.93	117.00
25	BB	937	C	N1-C1'-C2'	6.15	121.99	114.00
25	BB	1772	A	C4-C5-C6	-6.15	113.93	117.00
25	BB	1884	G	N1-C6-O6	-6.15	116.21	119.90
25	BB	2390	U	N1-C2-N3	6.15	118.59	114.90
3	A1	457	G	N1-C2-N3	6.15	127.59	123.90
3	A1	1238	A	C5-C6-N1	6.15	120.77	117.70
25	BB	1099	G	N3-C4-N9	6.15	129.69	126.00
25	BB	1821	A	C1'-O4'-C4'	-6.15	104.98	109.90
25	BB	1996	C	C4-C5-C6	6.15	120.47	117.40
1	AA	38	A	N3-C4-C5	-6.14	122.50	126.80
3	A1	708	C	N3-C4-C5	6.14	124.36	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	993	G	C5-N7-C8	-6.14	101.23	104.30
24	BA	31	C	C5-C4-N4	6.14	124.50	120.20
25	BB	162	U	N1-C2-N3	6.14	118.59	114.90
25	BB	548	G	P-O3'-C3'	6.14	127.07	119.70
25	BB	741	U	N1-C2-O2	6.14	127.10	122.80
25	BB	876	C	C3'-C2'-C1'	-6.14	96.58	101.50
25	BB	1724	G	C4-C5-N7	-6.14	108.34	110.80
25	BB	2288	A	N7-C8-N9	-6.14	110.73	113.80
25	BB	2894	G	C3'-C2'-C1'	6.14	106.42	101.50
28	BE	126	ARG	NE-CZ-NH2	6.14	123.37	120.30
3	A1	42	G	C4-C5-C6	-6.14	115.11	118.80
3	A1	427	U	C3'-C2'-C1'	6.14	106.41	101.50
3	A1	1190	G	C3'-C2'-C1'	-6.14	96.59	101.50
3	A1	1320	C	O4'-C1'-C2'	-6.14	99.66	105.80
24	BA	28	C	C5'-C4'-C3'	-6.14	106.17	116.00
25	BB	11	C	N3-C4-C5	6.14	124.36	121.90
25	BB	66	C	O4'-C4'-C3'	6.14	111.01	106.10
25	BB	237	C	C5'-C4'-O4'	6.14	116.47	109.10
25	BB	592	A	C4-C5-C6	-6.14	113.93	117.00
25	BB	1885	A	C6-C5-N7	6.14	136.60	132.30
25	BB	1981	A	C5-C6-N1	6.14	120.77	117.70
25	BB	2140	G	O4'-C1'-N9	6.14	113.11	108.20
25	BB	2855	C	C2-N3-C4	-6.14	116.83	119.90
25	BB	2864	G	N7-C8-N9	6.14	116.17	113.10
3	A1	198	G	C4'-C3'-C2'	-6.14	96.46	102.60
3	A1	1098	C	C5-C6-N1	6.14	124.07	121.00
25	BB	172	A	C5-C6-N6	6.14	128.61	123.70
1	AE	21	A	C6-C5-N7	6.14	136.60	132.30
3	A1	727	G	C5-C6-O6	-6.14	124.92	128.60
3	A1	946	A	N1-C2-N3	-6.14	126.23	129.30
3	A1	1112	C	C4-C5-C6	-6.14	114.33	117.40
7	AF	4	ALA	N-CA-CB	-6.14	101.50	110.10
25	BB	35	G	N1-C2-N2	-6.14	110.67	116.20
25	BB	214	G	N3-C4-N9	6.14	129.68	126.00
25	BB	530	G	O5'-C5'-C4'	-6.14	100.03	111.70
25	BB	684	G	N9-C4-C5	6.14	107.86	105.40
25	BB	798	G	C1'-O4'-C4'	-6.14	104.99	109.90
25	BB	992	C	N1-C2-O2	6.14	122.58	118.90
25	BB	1247	A	C5'-C4'-C3'	-6.14	106.18	116.00
25	BB	1646	C	C2-N3-C4	-6.14	116.83	119.90
25	BB	1871	A	C2-N3-C4	6.14	113.67	110.60
25	BB	1908	C	P-O3'-C3'	6.14	127.07	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2222	C	N3-C2-O2	-6.14	117.60	121.90
25	BB	2380	C	C5'-C4'-C3'	-6.14	106.18	116.00
25	BB	2550	G	C2-N3-C4	-6.14	108.83	111.90
25	BB	2706	A	O4'-C1'-N9	6.14	113.11	108.20
25	BB	2778	A	C5-N7-C8	6.14	106.97	103.90
31	BH	48	LEU	CB-CG-CD1	-6.14	100.56	111.00
31	BH	94	ARG	NE-CZ-NH1	6.14	123.37	120.30
1	AA	49	C	O4'-C1'-N1	6.14	113.11	108.20
3	A1	391	G	C4-C5-C6	-6.14	115.12	118.80
3	A1	1344	C	N1-C2-O2	6.14	122.58	118.90
3	A1	1508	A	C4'-C3'-C2'	-6.14	96.46	102.60
4	AB	15	PHE	CB-CG-CD1	-6.14	116.50	120.80
25	BB	149	A	C5-C6-N6	6.14	128.61	123.70
25	BB	700	G	C5-C6-O6	-6.14	124.92	128.60
25	BB	2764	A	C5-N7-C8	-6.14	100.83	103.90
3	A1	441	A	C1'-O4'-C4'	6.14	114.81	109.90
3	A1	1130	A	C8-N9-C4	-6.14	103.34	105.80
3	A1	1213	A	C5-N7-C8	-6.14	100.83	103.90
3	A1	1266	G	C3'-C2'-C1'	-6.14	96.59	101.50
3	A1	1451	U	C6-N1-C2	-6.14	117.32	121.00
3	A1	1464	U	C6-N1-C2	-6.14	117.32	121.00
24	BA	37	C	N1-C2-N3	6.14	123.50	119.20
25	BB	1110	G	N3-C2-N2	-6.14	115.61	119.90
25	BB	1260	A	C5-C6-N1	6.14	120.77	117.70
25	BB	1368	G	C4'-C3'-C2'	-6.14	96.46	102.60
25	BB	2326	C	N1-C2-O2	6.14	122.58	118.90
1	AP	24	G	C5-C6-N1	6.13	114.57	111.50
3	A1	125	U	C2-N3-C4	-6.13	123.32	127.00
3	A1	421	U	P-O3'-C3'	6.13	127.06	119.70
3	A1	487	A	C5-N7-C8	-6.13	100.83	103.90
3	A1	1237	C	C4'-C3'-C2'	-6.13	96.47	102.60
25	BB	24	G	C3'-C2'-C1'	6.13	106.41	101.50
25	BB	374	A	O4'-C1'-N9	6.13	113.11	108.20
25	BB	475	C	O5'-C5'-C4'	-6.13	100.05	111.70
25	BB	996	A	P-O3'-C3'	6.13	127.06	119.70
25	BB	1355	G	C5-C6-O6	-6.13	124.92	128.60
25	BB	1447	C	C4-C5-C6	-6.13	114.33	117.40
25	BB	1632	A	C4'-C3'-C2'	-6.13	96.47	102.60
25	BB	1839	G	C8-N9-C4	-6.13	103.95	106.40
25	BB	2358	A	O4'-C1'-N9	6.13	113.11	108.20
25	BB	2371	G	O4'-C4'-C3'	6.13	111.01	106.10
25	BB	2448	A	O4'-C1'-N9	-6.13	103.29	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2470	G	N7-C8-N9	6.13	116.17	113.10
25	BB	2504	U	N3-C4-O4	-6.13	115.11	119.40
25	BB	2635	A	C3'-C2'-C1'	-6.13	96.59	101.50
25	BB	2666	C	N1-C2-N3	6.13	123.50	119.20
26	BC	25	LYS	O-C-N	-6.13	112.89	122.70
28	BE	116	VAL	CG1-CB-CG2	-6.13	101.09	110.90
43	BT	47	TYR	CG-CD2-CE2	-6.13	116.39	121.30
46	BW	44	ARG	NH1-CZ-NH2	-6.13	112.65	119.40
1	AA	19	G	C2-N3-C4	-6.13	108.83	111.90
1	AE	4	G	C4-C5-N7	-6.13	108.35	110.80
3	A1	274	A	N1-C2-N3	6.13	132.37	129.30
3	A1	995	C	O4'-C1'-N1	6.13	113.11	108.20
3	A1	1331	G	C5-C6-N1	6.13	114.57	111.50
3	A1	1404	C	O3'-P-O5'	6.13	115.65	104.00
3	A1	1419	G	N3-C4-N9	6.13	129.68	126.00
16	AQ	32	ARG	NE-CZ-NH1	6.13	123.37	120.30
25	BB	174	U	O4'-C1'-C2'	6.13	113.12	107.60
25	BB	825	A	C6-N1-C2	6.13	122.28	118.60
25	BB	1407	G	C6-N1-C2	-6.13	121.42	125.10
25	BB	2253	G	N3-C4-C5	-6.13	125.53	128.60
25	BB	2260	C	N3-C4-N4	-6.13	113.71	118.00
25	BB	2791	G	C4-C5-C6	-6.13	115.12	118.80
25	BB	2847	U	C5'-C4'-C3'	-6.13	106.19	116.00
52	B3	166	GLU	N-CA-CB	-6.13	99.56	110.60
3	A1	730	G	C6-N1-C2	-6.13	121.42	125.10
3	A1	806	C	N1-C2-N3	6.13	123.49	119.20
3	A1	840	C	N3-C4-C5	6.13	124.35	121.90
3	A1	1132	C	C4'-C3'-C2'	-6.13	96.47	102.60
3	A1	1181	G	C5-N7-C8	-6.13	101.23	104.30
25	BB	428	A	N3-C4-C5	-6.13	122.51	126.80
25	BB	573	U	C2-N3-C4	-6.13	123.32	127.00
25	BB	1086	A	N1-C2-N3	-6.13	126.23	129.30
25	BB	1202	G	N1-C2-N3	6.13	127.58	123.90
25	BB	1245	G	N1-C6-O6	-6.13	116.22	119.90
25	BB	2080	A	C1'-O4'-C4'	6.13	114.81	109.90
25	BB	2251	G	C2-N3-C4	6.13	114.97	111.90
25	BB	2283	C	O4'-C1'-N1	6.13	113.11	108.20
25	BB	2635	A	N1-C2-N3	-6.13	126.23	129.30
30	BG	2	ARG	CD-NE-CZ	6.13	132.18	123.60
43	BT	5	ASN	C-N-CA	6.13	137.03	121.70
51	B2	29	ARG	NE-CZ-NH2	-6.13	117.23	120.30
20	AU	93	VAL	CA-CB-CG2	6.13	120.09	110.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	547	A	C4'-C3'-C2'	-6.13	96.47	102.60
25	BB	1878	G	C4'-C3'-C2'	-6.13	96.47	102.60
25	BB	1963	U	C5-C6-N1	-6.13	119.64	122.70
25	BB	2212	A	O3'-P-O5'	-6.13	92.35	104.00
25	BB	2381	A	C5'-C4'-C3'	-6.13	106.19	116.00
25	BB	2506	U	C4'-C3'-C2'	-6.13	96.47	102.60
25	BB	2632	A	C5'-C4'-O4'	6.13	116.45	109.10
3	A1	1098	C	O3'-P-O5'	6.13	115.64	104.00
3	A1	1345	U	N3-C2-O2	-6.13	117.91	122.20
24	BA	108	A	C6-C5-N7	6.13	136.59	132.30
25	BB	360	U	C5-C6-N1	-6.13	119.64	122.70
25	BB	604	G	C6-C5-N7	6.13	134.08	130.40
25	BB	816	C	N3-C4-N4	-6.13	113.71	118.00
25	BB	1031	G	C5-C6-N1	6.13	114.56	111.50
25	BB	1382	G	C6-C5-N7	6.13	134.08	130.40
25	BB	1823	G	N7-C8-N9	6.13	116.16	113.10
25	BB	2668	G	C6-C5-N7	-6.13	126.72	130.40
53	B4	53	GLU	OE1-CD-OE2	-6.13	115.94	123.30
1	AA	37	G	C5'-C4'-O4'	6.13	116.45	109.10
1	AP	46	G	C6-C5-N7	6.13	134.08	130.40
1	AP	61	C	N3-C2-O2	-6.13	117.61	121.90
2	AM	14	U	C2-N3-C4	-6.13	123.32	127.00
3	A1	355	C	O4'-C1'-N1	-6.13	103.30	108.20
3	A1	469	C	C6-N1-C2	6.13	122.75	120.30
25	BB	1022	G	C5-C6-O6	6.13	132.28	128.60
25	BB	1241	A	C5-C6-N1	6.13	120.76	117.70
25	BB	2049	G	C5-C6-O6	-6.13	124.92	128.60
25	BB	2107	G	O4'-C1'-N9	6.13	113.10	108.20
25	BB	2335	A	C6-C5-N7	6.13	136.59	132.30
25	BB	2369	A	C5-C6-N6	6.13	128.60	123.70
25	BB	2370	G	N1-C2-N2	-6.13	110.69	116.20
25	BB	2396	G	N1-C6-O6	-6.13	116.22	119.90
25	BB	2499	C	C4'-C3'-C2'	-6.13	96.47	102.60
25	BB	2868	A	C3'-C2'-C1'	-6.13	96.60	101.50
3	A1	673	A	O4'-C1'-N9	-6.12	103.30	108.20
3	A1	1178	G	C4-C5-N7	-6.12	108.35	110.80
3	A1	1221	G	C3'-C2'-C1'	6.12	106.40	101.50
25	BB	314	C	C4-C5-C6	6.12	120.46	117.40
25	BB	317	G	N9-C4-C5	6.12	107.85	105.40
25	BB	803	U	N3-C4-C5	6.12	118.28	114.60
25	BB	1627	G	C4-C5-N7	-6.12	108.35	110.80
1	AA	71	G	C1'-O4'-C4'	-6.12	105.00	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	AM	14	U	O4'-C1'-N1	-6.12	103.30	108.20
3	A1	296	U	N3-C4-O4	6.12	123.69	119.40
3	A1	869	G	N3-C4-C5	6.12	131.66	128.60
3	A1	1098	C	O4'-C1'-N1	6.12	113.10	108.20
3	A1	1108	G	N9-C1'-C2'	-6.12	105.26	112.00
3	A1	1244	G	C6-C5-N7	6.12	134.07	130.40
25	BB	742	A	N7-C8-N9	-6.12	110.74	113.80
25	BB	1009	A	N9-C4-C5	-6.12	103.35	105.80
25	BB	1172	C	C5-C4-N4	-6.12	115.91	120.20
25	BB	1250	G	N9-C4-C5	6.12	107.85	105.40
25	BB	1490	A	C4-C5-C6	-6.12	113.94	117.00
25	BB	1582	C	O4'-C1'-N1	6.12	113.10	108.20
25	BB	2769	U	N1-C1'-C2'	-6.12	105.26	112.00
49	BZ	162	GLN	N-CA-CB	-6.12	99.58	110.60
1	AA	41	U	C5-C4-O4	6.12	129.57	125.90
3	A1	133	U	N1-C2-N3	6.12	118.57	114.90
3	A1	197	A	N7-C8-N9	6.12	116.86	113.80
3	A1	617	G	C2-N3-C4	-6.12	108.84	111.90
3	A1	686	U	C5-C6-N1	6.12	125.76	122.70
3	A1	697	U	N1-C2-N3	6.12	118.57	114.90
3	A1	783	C	C6-N1-C2	-6.12	117.85	120.30
3	A1	935	A	O5'-C5'-C4'	6.12	123.33	111.70
3	A1	1502	A	C1'-O4'-C4'	-6.12	105.00	109.90
25	BB	266	G	N3-C2-N2	-6.12	115.61	119.90
25	BB	331	C	C5-C4-N4	6.12	124.48	120.20
25	BB	554	U	C3'-C2'-C1'	-6.12	96.60	101.50
25	BB	1346	G	C5'-C4'-C3'	-6.12	106.21	116.00
25	BB	1541	C	C5-C4-N4	6.12	124.48	120.20
25	BB	1955	U	C2-N3-C4	-6.12	123.33	127.00
27	BD	105	ARG	CD-NE-CZ	6.12	132.17	123.60
50	B1	61	ARG	CD-NE-CZ	6.12	132.17	123.60
54	B5	7	TYR	CB-CG-CD1	-6.12	117.33	121.00
2	AM	12	U	C5'-C4'-O4'	-6.12	101.76	109.10
3	A1	615	G	C6-N1-C2	6.12	128.77	125.10
3	A1	704	A	C2-N3-C4	6.12	113.66	110.60
25	BB	488	G	N9-C4-C5	-6.12	102.95	105.40
25	BB	1111	A	C6-N1-C2	-6.12	114.93	118.60
25	BB	1124	G	N9-C4-C5	-6.12	102.95	105.40
25	BB	1660	G	C3'-C2'-C1'	-6.12	96.60	101.50
25	BB	2217	G	N3-C4-C5	6.12	131.66	128.60
25	BB	2478	A	C6-C5-N7	6.12	136.58	132.30
30	BG	45	ARG	NE-CZ-NH1	6.12	123.36	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	72	A	C2-N3-C4	6.12	113.66	110.60
3	A1	258	G	C2-N3-C4	6.12	114.96	111.90
3	A1	601	G	C6-N1-C2	-6.12	121.43	125.10
3	A1	615	G	C1'-O4'-C4'	-6.12	105.00	109.90
3	A1	619	U	C3'-C2'-C1'	6.12	106.39	101.50
3	A1	789	U	O4'-C1'-C2'	6.12	113.11	107.60
3	A1	1266	G	O4'-C1'-C2'	6.12	113.11	107.60
11	AJ	14	ASP	CB-CG-OD1	6.12	123.81	118.30
21	AV	112	ASP	CB-CG-OD1	6.12	123.81	118.30
25	BB	308	G	N9-C4-C5	6.12	107.85	105.40
25	BB	2202	U	C4'-C3'-C2'	-6.12	96.48	102.60
25	BB	2556	C	C2'-C3'-O3'	6.12	123.49	113.70
25	BB	2566	A	O4'-C1'-N9	6.12	113.09	108.20
25	BB	2692	G	C6-N1-C2	-6.12	121.43	125.10
3	A1	8	A	C8-N9-C4	-6.12	103.35	105.80
3	A1	229	U	N3-C2-O2	-6.12	117.92	122.20
3	A1	1405	G	N3-C4-C5	-6.12	125.54	128.60
24	BA	50	A	C4'-C3'-C2'	-6.12	96.48	102.60
25	BB	933	A	C4-C5-C6	-6.12	113.94	117.00
25	BB	2633	G	N7-C8-N9	6.12	116.16	113.10
1	AE	8	U	N1-C2-N3	6.12	118.57	114.90
3	A1	828	U	N3-C4-O4	6.12	123.68	119.40
3	A1	924	C	C4'-C3'-C2'	-6.12	96.48	102.60
3	A1	949	A	O4'-C1'-N9	-6.12	103.31	108.20
3	A1	1274	A	C1'-O4'-C4'	6.12	114.79	109.90
3	A1	1362	A	C3'-C2'-C1'	6.12	106.39	101.50
3	A1	1416	G	C1'-O4'-C4'	-6.12	105.01	109.90
24	BA	104	A	N1-C2-N3	-6.12	126.24	129.30
25	BB	182	A	P-O5'-C5'	6.12	130.69	120.90
25	BB	493	G	C5-C6-O6	6.12	132.27	128.60
25	BB	611	C	C4-C5-C6	-6.12	114.34	117.40
25	BB	1138	G	C1'-O4'-C4'	-6.12	105.01	109.90
25	BB	2145	C	N3-C2-O2	-6.12	117.62	121.90
25	BB	2185	U	C4'-C3'-C2'	-6.12	96.48	102.60
25	BB	2396	G	C4-C5-N7	6.12	113.25	110.80
25	BB	2607	G	C8-N9-C4	6.12	108.85	106.40
42	BS	37	CYS	CA-CB-SG	-6.12	102.99	114.00
1	AP	42	G	C6-N1-C2	-6.11	121.43	125.10
3	A1	105	G	N9-C1'-C2'	-6.11	105.28	112.00
3	A1	342	C	C4'-C3'-C2'	-6.11	96.49	102.60
3	A1	989	U	C3'-C2'-C1'	6.11	106.39	101.50
3	A1	1127	G	N1-C2-N2	-6.11	110.70	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1138	G	C6-N1-C2	-6.11	121.43	125.10
3	A1	1465	A	C3'-C2'-C1'	6.11	106.39	101.50
21	AV	85	TYR	CB-CG-CD2	6.11	124.67	121.00
25	BB	443	A	C1'-O4'-C4'	-6.11	105.01	109.90
25	BB	1232	G	N9-C4-C5	6.11	107.85	105.40
25	BB	1368	G	C8-N9-C1'	6.11	134.95	127.00
25	BB	1935	G	N1-C2-N2	6.11	121.70	116.20
25	BB	2004	G	C3'-C2'-C1'	-6.11	96.61	101.50
25	BB	2379	G	C3'-C2'-C1'	-6.11	96.61	101.50
25	BB	2776	A	C5-C6-N6	6.11	128.59	123.70
3	A1	497	G	C4'-C3'-C2'	6.11	108.71	102.60
3	A1	1473	G	P-O3'-C3'	6.11	127.03	119.70
25	BB	315	G	N1-C2-N2	6.11	121.70	116.20
25	BB	1301	A	C4'-C3'-C2'	6.11	108.71	102.60
25	BB	1723	G	N3-C4-N9	6.11	129.67	126.00
25	BB	1902	C	O4'-C1'-C2'	-6.11	99.69	105.80
25	BB	2191	A	C4'-C3'-C2'	-6.11	96.49	102.60
45	BV	34	ARG	CD-NE-CZ	6.11	132.16	123.60
3	A1	462	G	O4'-C4'-C3'	6.11	110.99	106.10
3	A1	651	C	C5-C6-N1	-6.11	117.94	121.00
3	A1	819	A	C4'-C3'-C2'	-6.11	96.49	102.60
3	A1	1012	A	C5-N7-C8	6.11	106.96	103.90
3	A1	1122	U	C3'-C2'-C1'	6.11	106.39	101.50
25	BB	14	A	C4'-C3'-O3'	6.11	125.22	113.00
25	BB	168	G	N3-C4-N9	6.11	129.67	126.00
25	BB	298	G	C6-N1-C2	-6.11	121.43	125.10
25	BB	396	G	C4-C5-N7	-6.11	108.36	110.80
25	BB	492	A	C2-N3-C4	6.11	113.66	110.60
25	BB	939	G	C4-C5-C6	-6.11	115.13	118.80
25	BB	1093	G	N1-C2-N2	-6.11	110.70	116.20
25	BB	1278	C	N1-C2-N3	6.11	123.48	119.20
25	BB	1310	G	C5'-C4'-O4'	6.11	116.43	109.10
25	BB	1665	A	C5-C6-N6	6.11	128.59	123.70
25	BB	1843	C	C4-C5-C6	6.11	120.45	117.40
25	BB	2032	G	C5-N7-C8	6.11	107.36	104.30
25	BB	2751	G	O4'-C1'-C2'	-6.11	99.69	105.80
25	BB	2889	C	N3-C2-O2	-6.11	117.62	121.90
29	BF	110	GLU	OE1-CD-OE2	-6.11	115.97	123.30
1	AA	54	U	N3-C4-O4	-6.11	115.12	119.40
1	AP	15	G	C5-C6-O6	-6.11	124.93	128.60
3	A1	306	A	N9-C4-C5	6.11	108.24	105.80
3	A1	1330	U	N1-C2-O2	6.11	127.08	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	14	A	C5-C6-N6	6.11	128.59	123.70
25	BB	1096	A	C6-N1-C2	-6.11	114.94	118.60
25	BB	1194	A	C5'-C4'-C3'	-6.11	106.23	116.00
25	BB	1208	C	O4'-C1'-N1	6.11	113.09	108.20
1	AP	18	G	C4-N9-C1'	-6.11	118.56	126.50
3	A1	251	G	C5-C6-N1	6.11	114.55	111.50
3	A1	394	G	C5-C6-O6	-6.11	124.94	128.60
3	A1	675	A	C5'-C4'-C3'	-6.11	106.23	116.00
3	A1	826	C	C2-N3-C4	-6.11	116.85	119.90
3	A1	1366	C	C3'-C2'-C1'	6.11	106.39	101.50
3	A1	1523	G	C4'-C3'-C2'	-6.11	96.49	102.60
25	BB	1019	U	P-O3'-C3'	6.11	127.03	119.70
25	BB	2033	A	C5-C6-N1	6.11	120.75	117.70
25	BB	2691	C	P-O3'-C3'	6.11	127.03	119.70
25	BB	2708	G	N3-C2-N2	-6.11	115.62	119.90
25	BB	2720	U	N3-C2-O2	-6.11	117.92	122.20
25	BB	2846	G	C6-C5-N7	6.11	134.06	130.40
49	BZ	93	LEU	CB-CG-CD2	6.11	121.38	111.00
3	A1	306	A	N3-C4-N9	-6.11	122.52	127.40
3	A1	1002	G	P-O3'-C3'	6.11	127.03	119.70
3	A1	1145	A	C5-C6-N6	6.11	128.59	123.70
3	A1	1298	U	O4'-C1'-N1	6.11	113.08	108.20
25	BB	43	G	C4-C5-N7	-6.11	108.36	110.80
25	BB	989	G	N1-C6-O6	-6.11	116.24	119.90
25	BB	1131	G	C5'-C4'-O4'	6.11	116.43	109.10
25	BB	1253	A	C6-C5-N7	6.11	136.57	132.30
25	BB	1320	C	N3-C4-N4	-6.11	113.73	118.00
25	BB	2110	G	O4'-C4'-C3'	6.11	110.98	106.10
25	BB	2160	C	C5-C4-N4	6.11	124.47	120.20
25	BB	2281	A	C4-C5-N7	-6.11	107.65	110.70
36	BM	79	ASP	CB-CG-OD2	-6.11	112.81	118.30
3	A1	904	U	P-O5'-C5'	6.10	130.67	120.90
25	BB	680	C	C4'-C3'-C2'	-6.10	96.50	102.60
25	BB	1337	G	C4'-C3'-C2'	-6.10	96.50	102.60
25	BB	1408	G	C5'-C4'-C3'	-6.10	106.23	116.00
25	BB	1447	C	N3-C4-C5	6.10	124.34	121.90
25	BB	2416	C	P-O3'-C3'	6.10	127.02	119.70
25	BB	2441	U	N1-C2-N3	6.10	118.56	114.90
3	A1	203	G	C5-N7-C8	6.10	107.35	104.30
25	BB	122	G	N3-C2-N2	-6.10	115.63	119.90
25	BB	180	G	C4'-C3'-C2'	-6.10	96.50	102.60
25	BB	551	G	O5'-P-OP2	-6.10	100.21	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	699	A	N9-C4-C5	6.10	108.24	105.80
25	BB	839	U	C2-N3-C4	-6.10	123.34	127.00
25	BB	1176	U	C2-N3-C4	-6.10	123.34	127.00
25	BB	1488	C	C4-C5-C6	6.10	120.45	117.40
25	BB	1702	G	C5'-C4'-O4'	6.10	116.42	109.10
25	BB	1718	G	C3'-C2'-C1'	6.10	106.38	101.50
25	BB	1928	A	C4'-C3'-C2'	-6.10	96.50	102.60
25	BB	1942	C	N1-C2-O2	6.10	122.56	118.90
25	BB	2790	U	C5-C4-O4	-6.10	122.24	125.90
37	BN	61	TYR	CB-CG-CD2	-6.10	117.34	121.00
53	B4	97	ARG	NH1-CZ-NH2	-6.10	112.69	119.40
3	A1	871	U	C4'-C3'-C2'	-6.10	96.50	102.60
3	A1	981	U	C1'-O4'-C4'	-6.10	105.02	109.90
3	A1	1340	A	C4'-C3'-O3'	6.10	125.20	113.00
25	BB	676	A	C6-N1-C2	-6.10	114.94	118.60
25	BB	684	G	C3'-C2'-C1'	-6.10	96.62	101.50
25	BB	687	C	C5'-C4'-O4'	-6.10	101.78	109.10
25	BB	1469	A	P-O3'-C3'	6.10	127.02	119.70
25	BB	2474	U	C2-N1-C1'	-6.10	110.38	117.70
1	AE	34	G	N7-C8-N9	-6.10	110.05	113.10
1	AE	51	G	C6-N1-C2	-6.10	121.44	125.10
1	AE	54	U	N1-C1'-C2'	-6.10	105.29	112.00
3	A1	75	G	C3'-C2'-C1'	6.10	106.38	101.50
9	AH	73	ASP	CB-CG-OD1	6.10	123.79	118.30
24	BA	2	G	N3-C4-N9	-6.10	122.34	126.00
25	BB	37	C	C1'-O4'-C4'	6.10	114.78	109.90
25	BB	87	U	O4'-C1'-C2'	-6.10	99.70	105.80
25	BB	168	G	C5-C6-N1	-6.10	108.45	111.50
25	BB	188	G	C6-C5-N7	6.10	134.06	130.40
25	BB	380	G	N7-C8-N9	6.10	116.15	113.10
25	BB	590	A	N1-C2-N3	-6.10	126.25	129.30
25	BB	637	A	C5'-C4'-C3'	-6.10	106.24	116.00
25	BB	828	U	N3-C4-C5	-6.10	110.94	114.60
25	BB	933	A	N1-C2-N3	-6.10	126.25	129.30
25	BB	1417	C	C4-C5-C6	6.10	120.45	117.40
25	BB	1656	C	N3-C4-C5	6.10	124.34	121.90
25	BB	2107	G	C2-N3-C4	6.10	114.95	111.90
25	BB	2644	G	C6-C5-N7	6.10	134.06	130.40
25	BB	2678	C	N1-C2-N3	6.10	123.47	119.20
1	AA	28	C	C4'-C3'-C2'	-6.10	96.50	102.60
3	A1	205	A	N7-C8-N9	6.10	116.85	113.80
3	A1	541	G	N1-C2-N2	-6.10	110.71	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	594	U	N1-C2-O2	-6.10	118.53	122.80
3	A1	780	A	N3-C4-N9	-6.10	122.52	127.40
3	A1	881	G	N1-C2-N3	6.10	127.56	123.90
3	A1	1072	G	C5-C6-O6	6.10	132.26	128.60
3	A1	1080	A	C5-C6-N6	6.10	128.58	123.70
3	A1	1172	C	O4'-C1'-N1	-6.10	103.32	108.20
3	A1	1434	A	N9-C4-C5	-6.10	103.36	105.80
17	AR	113	ALA	N-CA-CB	-6.10	101.56	110.10
24	BA	114	C	C2-N1-C1'	-6.10	112.09	118.80
25	BB	44	A	C6-N1-C2	6.10	122.26	118.60
25	BB	442	G	C4-C5-N7	6.10	113.24	110.80
25	BB	703	U	C3'-C2'-C1'	6.10	106.38	101.50
25	BB	821	A	O4'-C1'-N9	6.10	113.08	108.20
25	BB	1351	C	O4'-C1'-N1	6.10	113.08	108.20
25	BB	1353	A	C1'-O4'-C4'	6.10	114.78	109.90
25	BB	2553	G	C2'-C3'-O3'	6.10	123.46	113.70
50	B1	39	ALA	CB-CA-C	6.10	119.25	110.10
3	A1	517	G	N1-C2-N3	6.10	127.56	123.90
3	A1	800	G	N1-C6-O6	-6.10	116.24	119.90
3	A1	1435	G	C5-N7-C8	-6.10	101.25	104.30
24	BA	39	A	N7-C8-N9	-6.10	110.75	113.80
25	BB	411	G	C4-C5-N7	-6.10	108.36	110.80
25	BB	509	C	C6-N1-C1'	6.10	128.12	120.80
25	BB	764	A	C5-C6-N6	-6.10	118.82	123.70
25	BB	1585	C	C6-N1-C2	-6.10	117.86	120.30
25	BB	1680	U	C5-C4-O4	-6.10	122.24	125.90
25	BB	1683	U	N3-C4-C5	-6.10	110.94	114.60
25	BB	2496	C	C2'-C3'-O3'	6.10	123.45	113.70
25	BB	2752	C	O4'-C4'-C3'	6.10	110.98	106.10
3	A1	72	A	N1-C2-N3	-6.09	126.25	129.30
3	A1	136	C	N3-C4-C5	6.09	124.34	121.90
3	A1	731	G	N9-C4-C5	-6.09	102.96	105.40
3	A1	1202	U	N3-C2-O2	-6.09	117.93	122.20
3	A1	1321	U	O4'-C4'-C3'	6.09	110.98	106.10
3	A1	1353	G	C5-C6-N1	6.09	114.55	111.50
3	A1	1420	U	P-O3'-C3'	6.09	127.01	119.70
25	BB	182	A	N1-C6-N6	-6.09	114.94	118.60
25	BB	766	U	C5-C6-N1	-6.09	119.65	122.70
25	BB	860	U	N1-C2-O2	6.09	127.07	122.80
25	BB	898	C	P-O3'-C3'	6.09	127.01	119.70
25	BB	1168	G	C5'-C4'-O4'	6.09	116.41	109.10
25	BB	1486	U	O3'-P-O5'	6.09	115.58	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2037	A	C4-C5-C6	-6.09	113.95	117.00
25	BB	2336	A	C4'-C3'-C2'	-6.09	96.50	102.60
3	A1	719	C	O4'-C1'-N1	6.09	113.07	108.20
25	BB	1367	A	N3-C4-C5	6.09	131.06	126.80
25	BB	2841	C	C4'-C3'-C2'	-6.09	96.51	102.60
1	AE	65	G	O4'-C4'-C3'	6.09	110.97	106.10
3	A1	242	G	C5-N7-C8	-6.09	101.25	104.30
3	A1	386	C	N3-C4-C5	6.09	124.34	121.90
3	A1	824	G	C8-N9-C1'	6.09	134.92	127.00
3	A1	1039	G	C2-N3-C4	6.09	114.95	111.90
3	A1	1095	U	O4'-C1'-C2'	6.09	113.08	107.60
3	A1	1398	A	C8-N9-C4	-6.09	103.36	105.80
25	BB	230	G	C1'-O4'-C4'	-6.09	105.03	109.90
25	BB	362	A	N9-C1'-C2'	-6.09	105.30	112.00
25	BB	374	A	C1'-O4'-C4'	-6.09	105.03	109.90
25	BB	963	U	C5-C6-N1	-6.09	119.65	122.70
25	BB	1308	A	N3-C4-C5	6.09	131.06	126.80
25	BB	1356	G	N7-C8-N9	6.09	116.15	113.10
25	BB	1503	A	C4'-C3'-C2'	-6.09	96.51	102.60
25	BB	1913	A	C2'-C3'-O3'	6.09	123.45	113.70
25	BB	2055	C	O4'-C1'-N1	6.09	113.07	108.20
25	BB	2168	G	N1-C6-O6	-6.09	116.25	119.90
25	BB	2264	C	C4-C5-C6	6.09	120.45	117.40
38	BO	38	ILE	C-N-CA	6.09	136.93	121.70
1	AP	18	G	O4'-C1'-C2'	6.09	113.08	107.60
3	A1	955	U	C3'-C2'-C1'	6.09	106.37	101.50
25	BB	255	A	N3-C4-C5	-6.09	122.54	126.80
25	BB	697	G	C4-N9-C1'	-6.09	118.58	126.50
25	BB	762	U	N1-C2-N3	6.09	118.55	114.90
25	BB	1294	U	C4-C5-C6	6.09	123.35	119.70
25	BB	1904	G	C2-N3-C4	6.09	114.94	111.90
25	BB	2547	A	C5-N7-C8	6.09	106.94	103.90
25	BB	2719	G	N3-C2-N2	-6.09	115.64	119.90
3	A1	581	G	C6-N1-C2	-6.09	121.45	125.10
24	BA	52	A	C6-C5-N7	6.09	136.56	132.30
25	BB	519	U	C3'-C2'-C1'	6.09	106.37	101.50
25	BB	1614	A	N1-C6-N6	-6.09	114.95	118.60
25	BB	1669	A	O4'-C1'-C2'	6.09	113.08	107.60
25	BB	2220	U	C5'-C4'-C3'	-6.09	106.26	116.00
3	A1	39	G	C2-N3-C4	-6.09	108.86	111.90
3	A1	242	G	C5-C6-N1	6.09	114.54	111.50
3	A1	737	C	C3'-C2'-C1'	-6.09	96.63	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	754	C	C6-N1-C2	-6.09	117.86	120.30
3	A1	1000	A	C4'-C3'-C2'	-6.09	96.51	102.60
3	A1	1249	C	C5-C4-N4	6.09	124.46	120.20
9	AH	42	PHE	CB-CG-CD2	6.09	125.06	120.80
17	AR	169	TRP	CD1-CG-CD2	-6.09	101.43	106.30
25	BB	984	A	C3'-C2'-C1'	6.09	106.37	101.50
25	BB	1565	C	C6-N1-C2	-6.09	117.86	120.30
25	BB	1618	A	N3-C4-N9	6.09	132.27	127.40
25	BB	1776	G	C5-C6-O6	-6.09	124.95	128.60
25	BB	1823	G	N3-C2-N2	-6.09	115.64	119.90
25	BB	1946	U	N1-C2-N3	6.09	118.55	114.90
25	BB	2551	C	N1-C2-N3	6.09	123.46	119.20
3	A1	793	U	N1-C2-O2	6.08	127.06	122.80
3	A1	1321	U	C1'-O4'-C4'	-6.08	105.03	109.90
24	BA	106	G	C5'-C4'-O4'	6.08	116.40	109.10
25	BB	919	U	C5-C4-O4	6.08	129.55	125.90
25	BB	1171	G	C3'-C2'-C1'	6.08	106.37	101.50
25	BB	1258	U	C5-C4-O4	-6.08	122.25	125.90
25	BB	1984	G	N1-C2-N3	6.08	127.55	123.90
25	BB	2273	A	N1-C2-N3	-6.08	126.26	129.30
25	BB	2308	G	N9-C4-C5	6.08	107.83	105.40
3	A1	233	C	N3-C2-O2	-6.08	117.64	121.90
3	A1	357	G	N3-C4-N9	6.08	129.65	126.00
3	A1	412	A	N7-C8-N9	-6.08	110.76	113.80
3	A1	519	C	N3-C2-O2	-6.08	117.64	121.90
3	A1	721	G	N1-C2-N2	-6.08	110.72	116.20
3	A1	1044	A	N3-C4-N9	-6.08	122.53	127.40
3	A1	1213	A	C6-C5-N7	6.08	136.56	132.30
25	BB	488	G	C3'-C2'-C1'	6.08	106.37	101.50
25	BB	665	U	C5'-C4'-C3'	-6.08	106.27	116.00
25	BB	1491	G	O3'-P-O5'	-6.08	92.44	104.00
25	BB	1640	A	O4'-C4'-C3'	-6.08	97.92	104.00
25	BB	1865	U	C5'-C4'-C3'	-6.08	106.27	116.00
25	BB	2125	G	C4-C5-C6	-6.08	115.15	118.80
25	BB	2154	A	C4-C5-N7	6.08	113.74	110.70
25	BB	2182	U	C5-C4-O4	6.08	129.55	125.90
25	BB	2195	U	C1'-O4'-C4'	-6.08	105.03	109.90
25	BB	2344	U	N1-C2-N3	6.08	118.55	114.90
25	BB	2548	U	C6-N1-C2	-6.08	117.35	121.00
1	AE	67	A	C6-C5-N7	6.08	136.56	132.30
3	A1	16	A	C5-C6-N6	6.08	128.56	123.70
3	A1	241	G	C6-N1-C2	-6.08	121.45	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	452	A	C5-C6-N6	6.08	128.56	123.70
3	A1	1119	C	N3-C4-C5	6.08	124.33	121.90
3	A1	1167	A	C3'-C2'-C1'	6.08	106.36	101.50
3	A1	1189	U	C5'-C4'-O4'	6.08	116.40	109.10
25	BB	279	A	C5-C6-N6	6.08	128.56	123.70
25	BB	374	A	C6-C5-N7	6.08	136.56	132.30
25	BB	751	A	C6-N1-C2	-6.08	114.95	118.60
25	BB	1554	U	O4'-C4'-C3'	6.08	110.97	106.10
25	BB	1660	G	N1-C2-N3	6.08	127.55	123.90
25	BB	1685	C	C4-C5-C6	-6.08	114.36	117.40
25	BB	1713	A	C5-C6-N1	6.08	120.74	117.70
25	BB	2842	G	C3'-C2'-C1'	-6.08	96.63	101.50
25	BB	2849	U	C3'-C2'-C1'	-6.08	96.63	101.50
25	BB	2868	A	N9-C4-C5	6.08	108.23	105.80
42	BS	31	ASP	CB-CG-OD1	6.08	123.77	118.30
3	A1	417	G	N1-C2-N3	6.08	127.55	123.90
3	A1	699	C	C2-N3-C4	-6.08	116.86	119.90
3	A1	1057	G	P-O3'-C3'	6.08	127.00	119.70
25	BB	518	G	O4'-C1'-N9	-6.08	103.34	108.20
48	BY	4	LEU	CB-CG-CD2	6.08	121.34	111.00
1	AA	40	C	N3-C2-O2	-6.08	117.64	121.90
3	A1	134	G	N7-C8-N9	6.08	116.14	113.10
3	A1	342	C	N3-C2-O2	-6.08	117.64	121.90
3	A1	397	A	C5-C6-N6	6.08	128.56	123.70
3	A1	821	G	P-O3'-C3'	6.08	127.00	119.70
3	A1	1196	A	C2-N3-C4	6.08	113.64	110.60
3	A1	1227	A	C8-N9-C4	6.08	108.23	105.80
25	BB	314	C	P-O3'-C3'	6.08	127.00	119.70
25	BB	390	U	N1-C2-O2	6.08	127.06	122.80
25	BB	399	U	C6-N1-C2	-6.08	117.35	121.00
25	BB	747	U	N3-C4-C5	6.08	118.25	114.60
25	BB	1082	U	C4'-C3'-C2'	-6.08	96.52	102.60
25	BB	1104	C	P-O3'-C3'	6.08	127.00	119.70
25	BB	1281	G	N3-C4-C5	-6.08	125.56	128.60
25	BB	1484	U	O4'-C4'-C3'	6.08	110.96	106.10
25	BB	1850	G	C2'-C3'-O3'	6.08	123.42	113.70
25	BB	2542	A	N9-C4-C5	6.08	108.23	105.80
1	AE	63	C	N3-C2-O2	-6.08	117.65	121.90
3	A1	376	G	N9-C4-C5	-6.08	102.97	105.40
3	A1	483	C	N1-C2-O2	6.08	122.55	118.90
25	BB	1790	C	C5'-C4'-O4'	6.08	116.39	109.10
25	BB	1912	A	C6-C5-N7	6.08	136.55	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2024	G	C5-N7-C8	-6.08	101.26	104.30
25	BB	2791	G	N1-C2-N2	-6.08	110.73	116.20
1	AE	9	A	O4'-C1'-N9	-6.08	103.34	108.20
3	A1	571	U	C2-N3-C4	-6.08	123.36	127.00
3	A1	856	C	N1-C2-N3	6.08	123.45	119.20
3	A1	1007	U	O4'-C1'-N1	6.08	113.06	108.20
3	A1	1290	G	C5-N7-C8	-6.08	101.26	104.30
20	AU	149	ALA	CB-CA-C	6.08	119.21	110.10
25	BB	570	G	O3'-P-O5'	6.08	115.54	104.00
25	BB	1966	A	C4-C5-C6	-6.08	113.96	117.00
25	BB	2422	C	O4'-C4'-C3'	6.08	110.96	106.10
25	BB	2436	G	N3-C4-C5	6.08	131.64	128.60
25	BB	2765	A	O4'-C4'-C3'	6.08	110.96	106.10
1	AA	60	C	C6-N1-C2	-6.07	117.87	120.30
1	AP	56	C	N1-C2-O2	6.07	122.54	118.90
1	AP	64	A	C4-C5-N7	6.07	113.74	110.70
3	A1	143	A	N7-C8-N9	-6.07	110.76	113.80
3	A1	628	G	C2-N3-C4	-6.07	108.86	111.90
3	A1	1160	G	N3-C4-C5	-6.07	125.56	128.60
11	AJ	48	GLU	OE1-CD-OE2	-6.07	116.01	123.30
25	BB	518	G	N1-C6-O6	-6.07	116.26	119.90
25	BB	553	G	N9-C1'-C2'	-6.07	105.32	112.00
25	BB	749	A	C4'-C3'-C2'	-6.07	96.53	102.60
25	BB	1637	A	N3-C4-C5	6.07	131.05	126.80
25	BB	1971	U	O4'-C1'-N1	6.07	113.06	108.20
25	BB	2354	C	C4-C5-C6	6.07	120.44	117.40
25	BB	2583	G	N3-C4-N9	6.07	129.64	126.00
30	BG	124	ALA	N-CA-CB	-6.07	101.60	110.10
3	A1	382	A	C5'-C4'-O4'	6.07	116.39	109.10
3	A1	559	A	C4-C5-N7	6.07	113.74	110.70
3	A1	1380	U	C5-C6-N1	-6.07	119.66	122.70
25	BB	1459	G	N1-C2-N3	6.07	127.54	123.90
25	BB	1794	A	O4'-C1'-N9	6.07	113.06	108.20
49	BZ	161	ASP	CB-CG-OD2	-6.07	112.83	118.30
2	AM	4	U	C2-N1-C1'	-6.07	110.42	117.70
3	A1	370	C	C5-C4-N4	6.07	124.45	120.20
3	A1	796	C	C5'-C4'-O4'	6.07	116.39	109.10
3	A1	868	C	C5'-C4'-C3'	-6.07	106.29	116.00
3	A1	1426	G	N3-C4-C5	6.07	131.64	128.60
3	A1	1532	U	C5-C6-N1	-6.07	119.66	122.70
25	BB	477	A	O4'-C1'-N9	-6.07	103.34	108.20
25	BB	858	G	C2-N3-C4	6.07	114.94	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	870	U	C5-C6-N1	-6.07	119.67	122.70
25	BB	872	U	C5-C4-O4	-6.07	122.26	125.90
25	BB	1332	G	C6-N1-C2	-6.07	121.46	125.10
25	BB	1371	G	C5-C6-N1	6.07	114.53	111.50
25	BB	2018	G	C5-N7-C8	6.07	107.33	104.30
25	BB	2496	C	N3-C4-N4	-6.07	113.75	118.00
25	BB	2557	G	C1'-O4'-C4'	-6.07	105.04	109.90
3	A1	395	C	C2-N3-C4	-6.07	116.86	119.90
3	A1	879	C	C4-C5-C6	-6.07	114.36	117.40
25	BB	219	A	O4'-C4'-C3'	6.07	110.95	106.10
25	BB	244	A	N7-C8-N9	-6.07	110.77	113.80
25	BB	795	C	P-O3'-C3'	6.07	126.98	119.70
25	BB	796	C	O5'-P-OP1	-6.07	100.24	105.70
25	BB	2231	U	N1-C2-O2	6.07	127.05	122.80
25	BB	2738	A	C4'-C3'-C2'	-6.07	96.53	102.60
1	AA	9	A	OP1-P-OP2	-6.07	110.50	119.60
1	AA	51	G	C5-C6-N1	6.07	114.53	111.50
1	AP	20	G	N1-C2-N2	-6.07	110.74	116.20
1	AE	21	A	C8-N9-C4	6.07	108.23	105.80
3	A1	138	G	N1-C6-O6	-6.07	116.26	119.90
3	A1	282	A	N9-C4-C5	-6.07	103.37	105.80
3	A1	725	G	C4-C5-C6	6.07	122.44	118.80
3	A1	731	G	N7-C8-N9	6.07	116.13	113.10
3	A1	1187	G	N3-C4-C5	-6.07	125.57	128.60
3	A1	1209	C	N3-C4-C5	6.07	124.33	121.90
3	A1	1399	C	C4'-C3'-C2'	6.07	108.67	102.60
3	A1	1465	A	C6-C5-N7	6.07	136.55	132.30
25	BB	230	G	C3'-C2'-C1'	-6.07	96.65	101.50
25	BB	380	G	C2-N3-C4	6.07	114.93	111.90
25	BB	448	U	O4'-C1'-N1	6.07	113.06	108.20
25	BB	864	G	O4'-C1'-N9	6.07	113.05	108.20
25	BB	1341	G	N7-C8-N9	6.07	116.13	113.10
25	BB	1504	A	C5-C6-N1	6.07	120.73	117.70
25	BB	1506	U	N1-C2-N3	6.07	118.54	114.90
25	BB	1661	G	N7-C8-N9	-6.07	110.07	113.10
25	BB	1670	C	N1-C2-N3	6.07	123.45	119.20
25	BB	1731	G	C6-N1-C2	-6.07	121.46	125.10
25	BB	1804	C	C5-C6-N1	-6.07	117.97	121.00
25	BB	1806	C	N1-C1'-C2'	-6.07	105.33	112.00
25	BB	2086	U	N3-C4-C5	6.07	118.24	114.60
25	BB	2176	A	C5-C6-N6	6.07	128.55	123.70
25	BB	2197	U	N3-C4-C5	-6.07	110.96	114.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2447	G	N1-C2-N2	-6.07	110.74	116.20
25	BB	2498	C	O3'-P-O5'	-6.07	92.47	104.00
3	A1	17	U	C5-C6-N1	-6.07	119.67	122.70
3	A1	84	U	C3'-C2'-C1'	-6.07	96.65	101.50
3	A1	853	C	C2-N3-C4	-6.07	116.87	119.90
3	A1	1130	A	C2-N3-C4	6.07	113.63	110.60
3	A1	1160	G	C5-C6-N1	6.07	114.53	111.50
3	A1	1279	G	C4-C5-C6	-6.07	115.16	118.80
3	A1	1474	U	N3-C2-O2	-6.07	117.95	122.20
23	AX	97	ASP	CB-CG-OD1	6.07	123.76	118.30
25	BB	69	C	N3-C4-N4	-6.07	113.75	118.00
25	BB	512	G	C1'-O4'-C4'	-6.07	105.05	109.90
25	BB	544	C	C5-C6-N1	-6.07	117.97	121.00
25	BB	559	G	C5-C6-O6	6.07	132.24	128.60
25	BB	653	U	N3-C2-O2	-6.07	117.95	122.20
25	BB	799	G	C4'-C3'-C2'	-6.07	96.53	102.60
25	BB	819	A	C5'-C4'-O4'	6.07	116.38	109.10
25	BB	1107	G	C4'-C3'-C2'	6.07	108.67	102.60
25	BB	1712	U	C2-N3-C4	-6.07	123.36	127.00
25	BB	1781	U	N3-C4-C5	6.07	118.24	114.60
25	BB	2362	C	C4-C5-C6	6.07	120.43	117.40
25	BB	2732	G	N3-C4-C5	-6.07	125.57	128.60
25	BB	2836	U	N3-C2-O2	-6.07	117.95	122.20
3	A1	443	C	O5'-P-OP1	-6.06	100.24	105.70
3	A1	1425	U	C5'-C4'-C3'	-6.06	106.30	116.00
12	AK	71	ASP	CB-CA-C	6.06	122.53	110.40
25	BB	176	A	C5-C6-N1	6.06	120.73	117.70
25	BB	2017	U	O4'-C1'-N1	6.06	113.05	108.20
25	BB	2069	G	O5'-P-OP2	-6.06	100.24	105.70
25	BB	2206	C	C5-C6-N1	-6.06	117.97	121.00
25	BB	2319	G	N7-C8-N9	6.06	116.13	113.10
25	BB	2890	G	C3'-C2'-C1'	6.06	106.35	101.50
3	A1	181	A	C4-C5-N7	6.06	113.73	110.70
3	A1	400	C	C2-N3-C4	-6.06	116.87	119.90
3	A1	422	C	C5-C6-N1	-6.06	117.97	121.00
3	A1	812	G	N7-C8-N9	6.06	116.13	113.10
3	A1	1154	G	C4-C5-C6	-6.06	115.16	118.80
25	BB	751	A	O4'-C1'-C2'	-6.06	99.74	105.80
25	BB	882	G	C3'-C2'-C1'	-6.06	96.65	101.50
25	BB	1642	G	C2-N3-C4	6.06	114.93	111.90
25	BB	1896	G	N3-C4-N9	6.06	129.64	126.00
25	BB	2097	A	C4-C5-C6	-6.06	113.97	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2851	A	N9-C1'-C2'	-6.06	105.33	112.00
30	BG	64	ARG	CD-NE-CZ	6.06	132.09	123.60
1	AP	10	G	N1-C2-N3	6.06	127.54	123.90
3	A1	971	G	C1'-O4'-C4'	-6.06	105.05	109.90
3	A1	1503	A	C4'-C3'-C2'	6.06	108.66	102.60
25	BB	64	A	C5'-C4'-O4'	6.06	116.37	109.10
25	BB	328	U	C5-C6-N1	-6.06	119.67	122.70
25	BB	809	G	C3'-C2'-C1'	-6.06	96.65	101.50
25	BB	835	C	N1-C2-N3	6.06	123.44	119.20
25	BB	1328	A	N1-C2-N3	-6.06	126.27	129.30
25	BB	1830	C	N1-C1'-C2'	6.06	121.88	114.00
25	BB	2067	G	O5'-C5'-C4'	-6.06	100.18	111.70
25	BB	2690	U	C6-N1-C2	-6.06	117.36	121.00
1	AA	49	C	N3-C4-C5	-6.06	119.48	121.90
2	AM	4	U	C4-C5-C6	6.06	123.33	119.70
3	A1	1422	G	N1-C6-O6	-6.06	116.27	119.90
25	BB	16	C	C6-N1-C2	-6.06	117.88	120.30
25	BB	118	A	N1-C2-N3	-6.06	126.27	129.30
25	BB	242	G	C1'-O4'-C4'	-6.06	105.05	109.90
25	BB	310	A	O4'-C1'-N9	6.06	113.05	108.20
25	BB	449	A	C1'-O4'-C4'	-6.06	105.05	109.90
25	BB	480	A	C3'-C2'-C1'	6.06	106.35	101.50
25	BB	614	A	C2'-C3'-O3'	6.06	123.39	113.70
25	BB	1202	G	C4-C5-N7	6.06	113.22	110.80
25	BB	1567	G	C6-C5-N7	6.06	134.03	130.40
25	BB	1953	A	C6-C5-N7	6.06	136.54	132.30
25	BB	2421	G	C6-N1-C2	-6.06	121.46	125.10
25	BB	2563	U	C2-N3-C4	-6.06	123.36	127.00
25	BB	2581	G	C5-C6-N1	6.06	114.53	111.50
3	A1	549	C	C5-C6-N1	-6.06	117.97	121.00
17	AR	13	ARG	NE-CZ-NH2	-6.06	117.27	120.30
24	BA	117	G	C5'-C4'-C3'	-6.06	106.31	116.00
25	BB	89	A	N9-C1'-C2'	-6.06	105.34	112.00
25	BB	261	G	C2-N3-C4	6.06	114.93	111.90
25	BB	478	A	O4'-C1'-N9	6.06	113.05	108.20
25	BB	551	G	N3-C2-N2	-6.06	115.66	119.90
25	BB	939	G	N1-C2-N2	6.06	121.65	116.20
25	BB	1093	G	C4'-C3'-C2'	6.06	108.66	102.60
25	BB	1482	G	C4'-C3'-C2'	-6.06	96.54	102.60
25	BB	1662	U	C6-N1-C2	-6.06	117.36	121.00
25	BB	1688	U	C5-C6-N1	-6.06	119.67	122.70
25	BB	1921	G	N3-C4-C5	-6.06	125.57	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2467	C	P-O3'-C3'	6.06	126.97	119.70
25	BB	2577	A	O5'-P-OP2	-6.06	100.25	105.70
45	BV	21	ARG	NE-CZ-NH2	-6.06	117.27	120.30
1	AP	11	C	C5-C6-N1	-6.06	117.97	121.00
3	A1	1283	U	N1-C2-O2	6.06	127.04	122.80
3	A1	1380	U	C4-C5-C6	6.06	123.33	119.70
3	A1	1520	C	C2-N3-C4	-6.06	116.87	119.90
25	BB	826	U	N3-C2-O2	-6.06	117.96	122.20
25	BB	1177	G	C5-N7-C8	6.06	107.33	104.30
36	BM	60	THR	CA-CB-CG2	6.06	120.88	112.40
1	AE	68	U	N1-C2-O2	6.05	127.04	122.80
1	AE	68	U	O4'-C1'-N1	6.05	113.04	108.20
3	A1	831	A	C5-C6-N6	6.05	128.54	123.70
3	A1	1052	U	N1-C2-N3	6.05	118.53	114.90
3	A1	1109	C	N1-C1'-C2'	6.05	121.87	114.00
3	A1	1349	A	O4'-C1'-N9	-6.05	103.36	108.20
3	A1	1422	G	C5-C6-N1	6.05	114.53	111.50
24	BA	13	G	P-O3'-C3'	6.05	126.97	119.70
24	BA	50	A	C5-C6-N1	6.05	120.73	117.70
25	BB	35	G	C4-C5-N7	-6.05	108.38	110.80
25	BB	111	A	C6-C5-N7	6.05	136.54	132.30
25	BB	192	C	C5-C4-N4	6.05	124.44	120.20
25	BB	517	C	C1'-O4'-C4'	6.05	114.74	109.90
25	BB	735	A	C5-N7-C8	-6.05	100.87	103.90
25	BB	1335	C	C4'-C3'-C2'	-6.05	96.55	102.60
25	BB	1432	G	N1-C2-N2	6.05	121.65	116.20
25	BB	1692	U	N1-C2-O2	-6.05	118.56	122.80
25	BB	2065	C	C4'-C3'-C2'	-6.05	96.55	102.60
25	BB	2138	G	O4'-C4'-C3'	-6.05	97.94	104.00
25	BB	2567	G	C3'-C2'-C1'	6.05	106.34	101.50
25	BB	2594	C	O4'-C1'-N1	-6.05	103.36	108.20
32	BI	88	ARG	NE-CZ-NH2	6.05	123.33	120.30
3	A1	103	U	C2'-C3'-O3'	6.05	123.39	113.70
3	A1	312	C	N1-C2-O2	6.05	122.53	118.90
3	A1	409	U	C3'-C2'-C1'	-6.05	96.66	101.50
3	A1	1088	G	N9-C4-C5	6.05	107.82	105.40
3	A1	1105	A	C2-N3-C4	6.05	113.63	110.60
3	A1	1141	C	C4'-C3'-C2'	-6.05	96.55	102.60
17	AR	138	PRO	N-CA-CB	6.05	110.56	103.30
17	AR	156	ALA	N-CA-CB	-6.05	101.63	110.10
25	BB	389	G	C2-N3-C4	-6.05	108.87	111.90
25	BB	1415	U	C5'-C4'-O4'	6.05	116.36	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	36	A	N1-C6-N6	-6.05	114.97	118.60
1	AP	15	G	C6-N1-C2	-6.05	121.47	125.10
2	AM	5	U	N3-C2-O2	-6.05	117.96	122.20
3	A1	25	C	N3-C4-C5	-6.05	119.48	121.90
3	A1	301	G	N9-C4-C5	6.05	107.82	105.40
3	A1	371	A	C2-N3-C4	6.05	113.62	110.60
3	A1	470	C	C2'-C3'-O3'	6.05	123.38	113.70
3	A1	514	C	N1-C2-N3	6.05	123.44	119.20
3	A1	560	A	C5-C6-N6	6.05	128.54	123.70
3	A1	1129	C	O4'-C1'-N1	6.05	113.04	108.20
3	A1	1185	G	N1-C6-O6	-6.05	116.27	119.90
3	A1	1523	G	O4'-C1'-N9	6.05	113.04	108.20
25	BB	311	A	C8-N9-C4	-6.05	103.38	105.80
25	BB	377	G	N9-C4-C5	6.05	107.82	105.40
25	BB	699	A	C4-C5-C6	-6.05	113.97	117.00
25	BB	1473	G	O4'-C4'-C3'	6.05	110.94	106.10
25	BB	1594	U	N1-C2-N3	6.05	118.53	114.90
25	BB	2816	G	N1-C2-N3	-6.05	120.27	123.90
1	AA	42	G	N9-C4-C5	-6.05	102.98	105.40
3	A1	26	A	N7-C8-N9	6.05	116.83	113.80
3	A1	137	U	N1-C2-N3	6.05	118.53	114.90
3	A1	924	C	N3-C4-N4	-6.05	113.77	118.00
3	A1	1292	G	N9-C4-C5	-6.05	102.98	105.40
15	AO	22	PHE	CB-CG-CD1	-6.05	116.57	120.80
25	BB	6	A	O4'-C1'-C2'	6.05	113.04	107.60
25	BB	181	A	C5'-C4'-O4'	6.05	116.36	109.10
25	BB	924	G	C8-N9-C1'	6.05	134.86	127.00
25	BB	1020	A	O4'-C1'-N9	6.05	113.04	108.20
25	BB	1315	C	N1-C2-O2	6.05	122.53	118.90
25	BB	1438	U	N3-C4-O4	6.05	123.64	119.40
25	BB	2330	G	N3-C2-N2	-6.05	115.67	119.90
25	BB	2719	G	C3'-C2'-C1'	6.05	106.34	101.50
3	A1	191	G	N3-C4-C5	6.05	131.62	128.60
3	A1	1499	A	C6-N1-C2	6.05	122.23	118.60
25	BB	299	A	N3-C4-C5	6.05	131.03	126.80
25	BB	804	A	N7-C8-N9	6.05	116.82	113.80
25	BB	1675	C	N1-C1'-C2'	6.05	121.86	114.00
25	BB	2714	G	C4'-C3'-C2'	-6.05	96.55	102.60
1	AE	15	G	P-O3'-C3'	-6.05	112.44	119.70
3	A1	172	A	C2-N3-C4	6.05	113.62	110.60
3	A1	570	G	C6-N1-C2	-6.05	121.47	125.10
3	A1	691	G	C5-C6-O6	6.05	132.23	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1249	C	C1'-O4'-C4'	-6.05	105.06	109.90
3	A1	1480	A	O5'-P-OP2	-6.05	100.26	105.70
25	BB	93	G	O4'-C1'-N9	6.05	113.04	108.20
25	BB	123	G	C3'-C2'-C1'	6.05	106.34	101.50
25	BB	348	A	C1'-O4'-C4'	-6.05	105.06	109.90
25	BB	1563	U	N3-C4-C5	-6.05	110.97	114.60
25	BB	2536	G	C2-N3-C4	6.05	114.92	111.90
25	BB	2777	G	C3'-C2'-C1'	-6.05	96.66	101.50
1	AP	61	C	C2-N1-C1'	6.04	125.45	118.80
3	A1	557	G	O4'-C1'-C2'	-6.04	99.75	105.80
3	A1	712	A	O4'-C1'-N9	6.04	113.04	108.20
3	A1	1367	C	C5-C4-N4	-6.04	115.97	120.20
25	BB	622	G	C2-N3-C4	6.04	114.92	111.90
25	BB	816	C	C4-C5-C6	6.04	120.42	117.40
25	BB	1714	U	C3'-C2'-C1'	6.04	106.34	101.50
25	BB	2717	C	C2-N3-C4	-6.04	116.88	119.90
25	BB	2763	G	N1-C6-O6	-6.04	116.27	119.90
25	BB	2812	G	C5'-C4'-C3'	-6.04	106.33	116.00
3	A1	138	G	N9-C4-C5	6.04	107.82	105.40
3	A1	350	G	N1-C2-N3	-6.04	120.27	123.90
3	A1	363	A	N1-C2-N3	-6.04	126.28	129.30
3	A1	366	A	C6-N1-C2	-6.04	114.97	118.60
3	A1	681	A	C4-C5-N7	6.04	113.72	110.70
3	A1	851	G	C2-N3-C4	6.04	114.92	111.90
3	A1	930	C	O5'-C5'-C4'	6.04	123.18	111.70
3	A1	943	U	O4'-C1'-N1	6.04	113.03	108.20
4	AB	73	ARG	CD-NE-CZ	6.04	132.06	123.60
24	BA	48	U	C5'-C4'-C3'	-6.04	106.33	116.00
25	BB	161	A	C5'-C4'-O4'	6.04	116.35	109.10
25	BB	439	A	N7-C8-N9	6.04	116.82	113.80
25	BB	659	G	N1-C6-O6	-6.04	116.27	119.90
25	BB	740	C	C2-N3-C4	6.04	122.92	119.90
25	BB	830	G	N3-C4-N9	6.04	129.63	126.00
25	BB	889	C	C5'-C4'-C3'	-6.04	106.33	116.00
25	BB	1083	U	C5'-C4'-O4'	6.04	116.35	109.10
25	BB	1528	A	C6-N1-C2	-6.04	114.97	118.60
25	BB	1631	G	O4'-C1'-N9	-6.04	103.36	108.20
25	BB	1725	U	O4'-C1'-N1	6.04	113.04	108.20
25	BB	2775	G	C8-N9-C1'	6.04	134.85	127.00
25	BB	2889	C	N1-C1'-C2'	-6.04	105.35	112.00
3	A1	316	C	O5'-C5'-C4'	6.04	123.18	111.70
3	A1	1034	G	N3-C4-C5	-6.04	125.58	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1635	A	C4-C5-C6	-6.04	113.98	117.00
25	BB	1755	A	C6-C5-N7	6.04	136.53	132.30
25	BB	1757	A	N9-C4-C5	6.04	108.22	105.80
25	BB	2436	G	N7-C8-N9	-6.04	110.08	113.10
25	BB	2744	G	N1-C2-N2	6.04	121.64	116.20
33	BJ	54	ARG	NH1-CZ-NH2	-6.04	112.75	119.40
48	BY	141	ARG	CD-NE-CZ	6.04	132.06	123.60
1	AP	2	C	C4'-C3'-C2'	-6.04	96.56	102.60
25	BB	216	A	C1'-O4'-C4'	-6.04	105.07	109.90
25	BB	499	U	N1-C2-N3	6.04	118.52	114.90
25	BB	1004	U	C6-N1-C1'	6.04	129.66	121.20
2	AM	18	U	C6-N1-C1'	-6.04	112.75	121.20
3	A1	169	C	C3'-C2'-C1'	6.04	106.33	101.50
3	A1	182	A	O5'-C5'-C4'	-6.04	100.23	111.70
3	A1	601	G	N1-C6-O6	-6.04	116.28	119.90
3	A1	954	G	N9-C4-C5	-6.04	102.98	105.40
3	A1	1045	C	C2'-C3'-O3'	6.04	123.36	113.70
3	A1	1099	G	N1-C2-N2	-6.04	110.77	116.20
3	A1	1249	C	N3-C4-N4	-6.04	113.77	118.00
5	AC	114	PRO	N-CA-CB	6.04	110.55	103.30
25	BB	536	G	N3-C2-N2	-6.04	115.67	119.90
25	BB	1309	G	N3-C2-N2	-6.04	115.67	119.90
25	BB	1354	A	C3'-C2'-C1'	-6.04	96.67	101.50
25	BB	1731	G	N7-C8-N9	6.04	116.12	113.10
25	BB	1739	A	O4'-C1'-N9	6.04	113.03	108.20
25	BB	2278	A	C5-N7-C8	-6.04	100.88	103.90
25	BB	2383	G	N3-C4-N9	6.04	129.62	126.00
25	BB	2578	G	C5'-C4'-O4'	6.04	116.35	109.10
25	BB	2666	C	C4-C5-C6	6.04	120.42	117.40
25	BB	2734	A	C3'-C2'-C1'	-6.04	96.67	101.50
37	BN	212	TRP	CD1-NE1-CE2	6.04	114.43	109.00
3	A1	1421	G	O4'-C4'-C3'	6.04	110.93	106.10
14	AN	5	SER	N-CA-CB	6.04	119.56	110.50
25	BB	310	A	O5'-P-OP1	-6.04	100.27	105.70
25	BB	1098	A	O5'-C5'-C4'	-6.04	100.23	111.70
25	BB	1778	U	C5-C4-O4	6.04	129.52	125.90
25	BB	2015	A	C5-C6-N1	6.04	120.72	117.70
25	BB	2480	C	C4-C5-C6	6.04	120.42	117.40
25	BB	2743	U	C2-N3-C4	6.04	130.62	127.00
25	BB	2744	G	N7-C8-N9	6.04	116.12	113.10
25	BB	2790	U	C6-N1-C2	-6.04	117.38	121.00
1	AE	62	A	N9-C1'-C2'	-6.04	105.36	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	159	G	N1-C6-O6	-6.04	116.28	119.90
3	A1	505	G	C5'-C4'-O4'	6.04	116.34	109.10
3	A1	624	C	C4'-C3'-C2'	-6.04	96.56	102.60
3	A1	756	C	C5-C6-N1	6.04	124.02	121.00
3	A1	1511	G	C5-C6-O6	6.04	132.22	128.60
25	BB	271	G	N3-C4-C5	-6.04	125.58	128.60
25	BB	301	G	C5-C6-O6	6.04	132.22	128.60
25	BB	543	G	C5-C6-N1	6.04	114.52	111.50
25	BB	930	G	C4'-C3'-C2'	-6.04	96.56	102.60
25	BB	1019	U	C5'-C4'-O4'	6.04	116.34	109.10
25	BB	1311	G	C5-N7-C8	-6.04	101.28	104.30
25	BB	1482	G	C5-N7-C8	-6.04	101.28	104.30
25	BB	1700	A	C2-N3-C4	6.04	113.62	110.60
25	BB	2003	A	C8-N9-C4	-6.04	103.39	105.80
25	BB	2729	G	C5'-C4'-O4'	6.04	116.34	109.10
1	AP	36	A	O4'-C1'-N9	6.03	113.03	108.20
1	AE	20	G	C5-N7-C8	-6.03	101.28	104.30
3	A1	115	G	C5-C6-O6	-6.03	124.98	128.60
3	A1	983	A	C5-C6-N6	6.03	128.53	123.70
5	AC	110	THR	CA-CB-CG2	6.03	120.85	112.40
25	BB	388	G	C5'-C4'-O4'	6.03	116.34	109.10
25	BB	715	A	C4-C5-N7	-6.03	107.68	110.70
25	BB	840	C	C2-N3-C4	-6.03	116.88	119.90
25	BB	841	G	N1-C6-O6	-6.03	116.28	119.90
25	BB	1124	G	C5-C6-N1	6.03	114.52	111.50
25	BB	1228	G	C5'-C4'-O4'	-6.03	101.86	109.10
25	BB	1449	G	C6-N1-C2	-6.03	121.48	125.10
25	BB	2045	C	N3-C4-N4	-6.03	113.78	118.00
3	A1	1050	G	C4-C5-C6	-6.03	115.18	118.80
3	A1	1151	A	N7-C8-N9	6.03	116.82	113.80
25	BB	299	A	N7-C8-N9	6.03	116.82	113.80
25	BB	1347	A	C5-N7-C8	-6.03	100.88	103.90
1	AA	61	C	O4'-C1'-N1	6.03	113.02	108.20
1	AP	52	U	N1-C2-N3	6.03	118.52	114.90
3	A1	443	C	N1-C2-N3	6.03	123.42	119.20
3	A1	494	G	C6-N1-C2	-6.03	121.48	125.10
3	A1	567	G	C4-N9-C1'	-6.03	118.66	126.50
3	A1	890	G	C2'-C3'-O3'	6.03	123.35	113.70
25	BB	41	C	N3-C4-C5	6.03	124.31	121.90
25	BB	184	C	C6-N1-C2	-6.03	117.89	120.30
25	BB	450	G	N7-C8-N9	6.03	116.11	113.10
25	BB	794	A	O4'-C1'-N9	6.03	113.03	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	858	G	C5-C6-N1	6.03	114.52	111.50
25	BB	927	A	N7-C8-N9	6.03	116.81	113.80
25	BB	1606	C	N3-C4-C5	6.03	124.31	121.90
25	BB	1751	U	N3-C4-O4	6.03	123.62	119.40
25	BB	2147	A	N9-C1'-C2'	6.03	121.84	114.00
25	BB	2217	G	C6-N1-C2	-6.03	121.48	125.10
25	BB	2378	A	C2-N3-C4	-6.03	107.58	110.60
25	BB	2443	C	C5-C6-N1	-6.03	117.98	121.00
37	BN	237	ARG	NE-CZ-NH1	6.03	123.32	120.30
49	BZ	36	PHE	CB-CG-CD1	-6.03	116.58	120.80
3	A1	1215	G	N3-C2-N2	-6.03	115.68	119.90
15	AO	163	ARG	O-C-N	6.03	132.35	122.70
25	BB	1743	G	N3-C4-C5	-6.03	125.59	128.60
25	BB	1833	C	O4'-C1'-N1	6.03	113.02	108.20
25	BB	2298	A	C3'-C2'-C1'	-6.03	96.68	101.50
25	BB	2308	G	C1'-O4'-C4'	6.03	114.72	109.90
3	A1	201	G	C4-C5-N7	-6.03	108.39	110.80
3	A1	1380	U	C4'-C3'-C2'	-6.03	96.57	102.60
25	BB	130	C	C5-C4-N4	6.03	124.42	120.20
25	BB	219	A	C2-N3-C4	6.03	113.61	110.60
25	BB	453	A	C3'-C2'-C1'	-6.03	96.68	101.50
25	BB	726	G	C5'-C4'-C3'	-6.03	106.36	116.00
25	BB	882	G	C1'-O4'-C4'	-6.03	105.08	109.90
25	BB	1670	C	N3-C2-O2	-6.03	117.68	121.90
25	BB	1866	A	N9-C1'-C2'	-6.03	105.37	112.00
25	BB	1961	C	O4'-C4'-C3'	-6.03	97.97	104.00
25	BB	2102	G	C4-C5-N7	-6.03	108.39	110.80
25	BB	2130	U	C5-C4-O4	-6.03	122.28	125.90
25	BB	2219	U	C5-C6-N1	-6.03	119.69	122.70
25	BB	2414	G	C5-C6-N1	6.03	114.51	111.50
25	BB	2691	C	N3-C2-O2	-6.03	117.68	121.90
25	BB	2844	G	N1-C6-O6	-6.03	116.28	119.90
37	BN	213	ARG	NH1-CZ-NH2	-6.03	112.77	119.40
1	AE	57	G	C5-N7-C8	-6.03	101.29	104.30
1	AE	67	A	N1-C2-N3	-6.03	126.29	129.30
3	A1	91	U	N1-C2-O2	-6.03	118.58	122.80
3	A1	120	A	C5-C6-N6	6.03	128.52	123.70
3	A1	661	G	O4'-C1'-N9	6.03	113.02	108.20
3	A1	1141	C	C5-C6-N1	-6.03	117.99	121.00
3	A1	1508	A	N1-C2-N3	-6.03	126.29	129.30
24	BA	58	A	C4'-C3'-C2'	-6.03	96.58	102.60
24	BA	117	G	C1'-O4'-C4'	6.03	114.72	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	392	U	C3'-C2'-C1'	-6.03	96.68	101.50
25	BB	609	A	N7-C8-N9	6.03	116.81	113.80
25	BB	725	G	C8-N9-C4	-6.03	103.99	106.40
25	BB	1362	C	C5'-C4'-O4'	6.03	116.33	109.10
25	BB	1647	U	N3-C2-O2	-6.03	117.98	122.20
25	BB	1735	A	C4'-C3'-C2'	-6.03	96.57	102.60
25	BB	2173	A	C4-C5-C6	-6.03	113.99	117.00
31	BH	9	ARG	NE-CZ-NH2	6.03	123.31	120.30
3	A1	14	U	N3-C4-O4	6.02	123.62	119.40
3	A1	62	U	C6-N1-C2	-6.02	117.39	121.00
24	BA	79	G	C5'-C4'-O4'	6.02	116.33	109.10
25	BB	191	A	C1'-O4'-C4'	-6.02	105.08	109.90
25	BB	272	A	C8-N9-C4	6.02	108.21	105.80
1	AA	70	C	N3-C4-C5	6.02	124.31	121.90
3	A1	201	G	O4'-C4'-C3'	6.02	110.92	106.10
3	A1	513	C	C5-C6-N1	-6.02	117.99	121.00
3	A1	956	U	N1-C1'-C2'	6.02	121.83	114.00
25	BB	250	G	C4-C5-C6	-6.02	115.19	118.80
25	BB	459	U	C4-C5-C6	6.02	123.31	119.70
25	BB	655	A	C2-N3-C4	6.02	113.61	110.60
25	BB	684	G	C2-N3-C4	-6.02	108.89	111.90
25	BB	830	G	C6-N1-C2	-6.02	121.49	125.10
25	BB	917	A	C5-C6-N6	6.02	128.52	123.70
25	BB	1505	A	N7-C8-N9	6.02	116.81	113.80
25	BB	1524	G	C4-C5-N7	6.02	113.21	110.80
25	BB	1627	G	O3'-P-O5'	6.02	115.44	104.00
25	BB	1776	G	N9-C1'-C2'	6.02	121.83	114.00
25	BB	1864	U	N3-C2-O2	-6.02	117.98	122.20
25	BB	1952	A	C6-C5-N7	6.02	136.52	132.30
25	BB	2164	C	C3'-C2'-C1'	6.02	106.32	101.50
25	BB	2173	A	N9-C4-C5	6.02	108.21	105.80
3	A1	727	G	C1'-O4'-C4'	-6.02	105.08	109.90
3	A1	767	A	N9-C4-C5	6.02	108.21	105.80
24	BA	117	G	C6-N1-C2	-6.02	121.49	125.10
25	BB	265	A	C5'-C4'-C3'	-6.02	106.37	116.00
25	BB	543	G	N1-C6-O6	-6.02	116.29	119.90
25	BB	1277	G	C6-N1-C2	-6.02	121.49	125.10
25	BB	1337	G	N1-C6-O6	-6.02	116.29	119.90
25	BB	1400	U	C3'-C2'-C1'	6.02	106.32	101.50
25	BB	2530	A	N1-C2-N3	-6.02	126.29	129.30
25	BB	2592	G	C3'-C2'-C1'	6.02	106.32	101.50
25	BB	2624	G	C6-C5-N7	6.02	134.01	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2697	G	C1'-O4'-C4'	-6.02	105.08	109.90
25	BB	2718	G	O4'-C4'-C3'	6.02	110.92	106.10
1	AP	39	U	N1-C2-O2	6.02	127.01	122.80
3	A1	471	U	N3-C4-C5	-6.02	110.99	114.60
3	A1	1134	G	C6-N1-C2	-6.02	121.49	125.10
3	A1	1328	C	C6-N1-C1'	6.02	128.02	120.80
24	BA	80	U	N1-C1'-C2'	6.02	121.83	114.00
25	BB	152	A	C1'-O4'-C4'	-6.02	105.08	109.90
25	BB	216	A	N9-C1'-C2'	-6.02	105.38	112.00
25	BB	496	G	N1-C2-N2	-6.02	110.78	116.20
25	BB	540	C	C1'-O4'-C4'	-6.02	105.08	109.90
25	BB	655	A	N9-C4-C5	-6.02	103.39	105.80
25	BB	859	G	C5'-C4'-C3'	-6.02	106.37	116.00
25	BB	1396	U	C4-C5-C6	6.02	123.31	119.70
25	BB	1413	A	C5'-C4'-O4'	6.02	116.32	109.10
25	BB	1514	G	O4'-C4'-C3'	-6.02	97.98	104.00
25	BB	1813	G	O5'-P-OP1	-6.02	100.28	105.70
1	AE	48	C	N3-C4-C5	6.02	124.31	121.90
3	A1	40	C	C4'-C3'-C2'	-6.02	96.58	102.60
3	A1	529	G	N1-C6-O6	-6.02	116.29	119.90
3	A1	654	G	N9-C4-C5	6.02	107.81	105.40
3	A1	1284	C	N3-C4-C5	6.02	124.31	121.90
10	AI	71	VAL	CG1-CB-CG2	-6.02	101.27	110.90
25	BB	70	G	N1-C2-N2	6.02	121.62	116.20
25	BB	866	A	C4-C5-C6	-6.02	113.99	117.00
25	BB	1299	G	N3-C4-C5	-6.02	125.59	128.60
25	BB	1301	A	P-O3'-C3'	6.02	126.92	119.70
25	BB	1518	C	C3'-C2'-C1'	6.02	106.31	101.50
25	BB	1812	U	C4-C5-C6	6.02	123.31	119.70
25	BB	1913	A	C1'-O4'-C4'	-6.02	105.09	109.90
25	BB	2101	A	C4-C5-C6	-6.02	113.99	117.00
25	BB	2190	G	O4'-C1'-C2'	6.02	113.02	107.60
25	BB	2235	G	C6-N1-C2	-6.02	121.49	125.10
25	BB	2237	G	N7-C8-N9	-6.02	110.09	113.10
25	BB	2529	G	C4-C5-C6	-6.02	115.19	118.80
44	BU	53	ILE	CB-CA-C	6.02	123.64	111.60
3	A1	447	G	N3-C2-N2	6.02	124.11	119.90
3	A1	544	G	C5-C6-O6	6.02	132.21	128.60
25	BB	1216	G	C5-N7-C8	-6.02	101.29	104.30
25	BB	1250	G	O4'-C4'-C3'	-6.02	97.98	104.00
25	BB	1275	A	C2-N3-C4	6.02	113.61	110.60
25	BB	1373	A	C2-N3-C4	6.02	113.61	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2008	C	C1'-O4'-C4'	-6.02	105.09	109.90
25	BB	2216	G	C2-N3-C4	6.02	114.91	111.90
25	BB	2216	G	N3-C4-C5	-6.02	125.59	128.60
25	BB	2542	A	C3'-C2'-C1'	6.02	106.31	101.50
3	A1	973	G	N1-C2-N2	-6.01	110.79	116.20
3	A1	1115	U	C5-C6-N1	-6.01	119.69	122.70
3	A1	1398	A	C4-C5-C6	-6.01	113.99	117.00
7	AF	106	ARG	CD-NE-CZ	6.01	132.02	123.60
17	AR	75	TYR	CD1-CE1-CZ	6.01	125.21	119.80
24	BA	82	U	C5'-C4'-O4'	6.01	116.32	109.10
25	BB	33	C	C5-C4-N4	6.01	124.41	120.20
25	BB	261	G	O4'-C4'-C3'	6.01	110.91	106.10
25	BB	1117	C	N1-C2-O2	6.01	122.51	118.90
25	BB	1591	A	P-O3'-C3'	6.01	126.92	119.70
25	BB	1890	A	C5-C6-N1	6.01	120.71	117.70
25	BB	2139	U	N3-C2-O2	-6.01	117.99	122.20
25	BB	2228	G	N3-C4-N9	-6.01	122.39	126.00
25	BB	2367	G	C8-N9-C4	-6.01	103.99	106.40
25	BB	2513	A	C4-C5-N7	-6.01	107.69	110.70
3	A1	575	G	C8-N9-C4	-6.01	104.00	106.40
3	A1	666	G	C5-N7-C8	-6.01	101.29	104.30
3	A1	835	U	N1-C2-O2	6.01	127.01	122.80
3	A1	889	A	N1-C6-N6	-6.01	114.99	118.60
3	A1	929	G	C5-C6-O6	6.01	132.21	128.60
3	A1	1212	U	C6-N1-C2	-6.01	117.39	121.00
3	A1	1491	G	N3-C4-C5	-6.01	125.59	128.60
25	BB	261	G	O4'-C1'-N9	-6.01	103.39	108.20
25	BB	1010	A	C5-C6-N6	6.01	128.51	123.70
25	BB	1180	U	N3-C4-O4	-6.01	115.19	119.40
25	BB	1224	U	C5'-C4'-C3'	-6.01	106.38	116.00
25	BB	1385	A	C1'-O4'-C4'	-6.01	105.09	109.90
25	BB	2235	G	O4'-C1'-N9	6.01	113.01	108.20
25	BB	2828	G	C5'-C4'-O4'	6.01	116.32	109.10
1	AA	59	U	N3-C4-C5	6.01	118.21	114.60
2	AM	1	U	C5-C6-N1	-6.01	119.69	122.70
2	AM	6	U	O4'-C1'-N1	6.01	113.01	108.20
3	A1	52	C	N1-C1'-C2'	6.01	121.81	114.00
3	A1	1118	U	N1-C2-N3	6.01	118.51	114.90
3	A1	1520	C	N3-C4-N4	-6.01	113.79	118.00
24	BA	54	G	C5'-C4'-C3'	-6.01	106.38	116.00
25	BB	125	A	C8-N9-C4	-6.01	103.40	105.80
25	BB	232	G	C5-N7-C8	6.01	107.31	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	295	G	O4'-C1'-N9	6.01	113.01	108.20
25	BB	750	A	N1-C2-N3	-6.01	126.29	129.30
25	BB	1836	C	N3-C4-N4	-6.01	113.79	118.00
25	BB	1999	C	N1-C1'-C2'	6.01	121.81	114.00
25	BB	2870	C	C5-C4-N4	6.01	124.41	120.20
54	B5	4	VAL	CA-CB-CG1	6.01	119.92	110.90
3	A1	51	A	O4'-C1'-N9	6.01	113.01	108.20
3	A1	140	U	C5'-C4'-C3'	-6.01	106.38	116.00
3	A1	310	G	C5-C6-N1	6.01	114.50	111.50
3	A1	337	G	N3-C4-N9	6.01	129.61	126.00
3	A1	1141	C	C4-C5-C6	6.01	120.41	117.40
25	BB	37	C	N3-C2-O2	-6.01	117.69	121.90
25	BB	450	G	C6-N1-C2	-6.01	121.50	125.10
25	BB	520	G	C4-C5-N7	-6.01	108.40	110.80
25	BB	713	G	O4'-C1'-N9	6.01	113.01	108.20
25	BB	722	A	C4-C5-C6	-6.01	114.00	117.00
25	BB	933	A	C3'-C2'-C1'	6.01	106.31	101.50
25	BB	1097	U	O4'-C1'-N1	6.01	113.01	108.20
25	BB	1385	A	C5-C6-N1	6.01	120.70	117.70
25	BB	1680	U	C2-N1-C1'	-6.01	110.49	117.70
25	BB	1725	U	C5-C4-O4	-6.01	122.29	125.90
25	BB	2303	G	N1-C6-O6	-6.01	116.29	119.90
3	A1	97	G	N1-C2-N2	-6.01	110.79	116.20
3	A1	951	G	O4'-C1'-N9	6.01	113.01	108.20
3	A1	1412	C	C5'-C4'-O4'	6.01	116.31	109.10
25	BB	359	G	N3-C4-N9	6.01	129.60	126.00
25	BB	1602	U	C5-C4-O4	6.01	129.50	125.90
25	BB	2385	C	C4-C5-C6	6.01	120.40	117.40
25	BB	2398	U	C4'-C3'-C2'	-6.01	96.59	102.60
1	AA	34	G	C5-C6-O6	6.01	132.20	128.60
1	AP	52	U	N3-C2-O2	-6.01	118.00	122.20
1	AE	31	A	C5-C6-N6	6.01	128.50	123.70
3	A1	253	A	N9-C4-C5	6.01	108.20	105.80
3	A1	744	C	N3-C4-C5	-6.01	119.50	121.90
3	A1	853	C	C4'-C3'-O3'	6.01	125.01	113.00
3	A1	1046	A	N7-C8-N9	6.01	116.80	113.80
3	A1	1484	C	C6-N1-C2	6.01	122.70	120.30
24	BA	49	C	C5'-C4'-O4'	6.01	116.31	109.10
25	BB	596	U	N1-C2-N3	6.01	118.50	114.90
25	BB	961	C	C1'-O4'-C4'	-6.01	105.09	109.90
25	BB	1529	G	O5'-P-OP2	6.01	117.91	110.70
25	BB	1552	A	C1'-O4'-C4'	-6.01	105.09	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1597	A	O3'-P-O5'	6.01	115.41	104.00
25	BB	1902	C	C4'-C3'-C2'	-6.01	96.59	102.60
25	BB	2174	C	C5'-C4'-O4'	6.01	116.31	109.10
25	BB	2298	A	O4'-C1'-C2'	6.01	113.01	107.60
25	BB	2560	A	C5-N7-C8	-6.01	100.90	103.90
25	BB	2803	G	O4'-C1'-N9	-6.01	103.39	108.20
1	AA	21	A	N1-C6-N6	-6.00	115.00	118.60
1	AA	65	G	C8-N9-C1'	6.00	134.81	127.00
3	A1	988	G	N3-C4-N9	-6.00	122.40	126.00
3	A1	1052	U	C3'-C2'-C1'	6.00	106.30	101.50
3	A1	1134	G	N1-C6-O6	-6.00	116.30	119.90
3	A1	1345	U	C2-N3-C4	-6.00	123.40	127.00
3	A1	1410	A	C5-C6-N6	6.00	128.50	123.70
25	BB	1108	U	O4'-C1'-N1	6.00	113.00	108.20
25	BB	2360	G	C1'-O4'-C4'	-6.00	105.10	109.90
25	BB	2442	C	O4'-C1'-N1	6.00	113.00	108.20
3	A1	21	G	C6-N1-C2	-6.00	121.50	125.10
3	A1	122	G	N3-C2-N2	6.00	124.10	119.90
3	A1	496	A	C8-N9-C4	6.00	108.20	105.80
3	A1	701	U	N1-C2-O2	6.00	127.00	122.80
3	A1	741	G	N1-C2-N3	6.00	127.50	123.90
3	A1	821	G	C6-N1-C2	-6.00	121.50	125.10
3	A1	1384	C	C5-C4-N4	6.00	124.40	120.20
15	AO	132	ALA	N-CA-CB	-6.00	101.69	110.10
25	BB	645	C	N1-C2-O2	6.00	122.50	118.90
25	BB	954	G	C5-C6-O6	6.00	132.20	128.60
25	BB	1590	A	C4'-C3'-C2'	-6.00	96.60	102.60
25	BB	1638	C	C3'-C2'-C1'	-6.00	96.70	101.50
25	BB	1935	G	N3-C4-C5	-6.00	125.60	128.60
25	BB	2065	C	N3-C2-O2	-6.00	117.70	121.90
25	BB	2762	C	C2-N3-C4	-6.00	116.90	119.90
50	B1	96	VAL	CA-CB-CG1	6.00	119.91	110.90
1	AA	24	G	C4-C5-C6	-6.00	115.20	118.80
3	A1	539	A	C8-N9-C4	-6.00	103.40	105.80
3	A1	619	U	C1'-O4'-C4'	-6.00	105.10	109.90
3	A1	940	C	C5-C6-N1	-6.00	118.00	121.00
3	A1	1082	A	N1-C2-N3	6.00	132.30	129.30
3	A1	1259	C	N3-C2-O2	-6.00	117.70	121.90
3	A1	1417	G	N1-C6-O6	-6.00	116.30	119.90
3	A1	1422	G	C5'-C4'-O4'	6.00	116.30	109.10
24	BA	98	G	C5'-C4'-C3'	-6.00	106.40	116.00
25	BB	98	G	C2-N3-C4	-6.00	108.90	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	130	C	C6-N1-C2	6.00	122.70	120.30
25	BB	219	A	C8-N9-C4	-6.00	103.40	105.80
25	BB	250	G	C8-N9-C4	-6.00	104.00	106.40
25	BB	442	G	N3-C2-N2	-6.00	115.70	119.90
25	BB	684	G	O4'-C4'-C3'	6.00	110.90	106.10
25	BB	830	G	N3-C2-N2	-6.00	115.70	119.90
25	BB	1573	G	C5'-C4'-C3'	-6.00	106.40	116.00
25	BB	2157	G	N7-C8-N9	6.00	116.10	113.10
25	BB	2390	U	N3-C4-O4	-6.00	115.20	119.40
25	BB	2882	A	C6-C5-N7	6.00	136.50	132.30
29	BF	51	ARG	CD-NE-CZ	6.00	132.00	123.60
37	BN	120	ASP	CB-CG-OD2	-6.00	112.90	118.30
1	AP	12	U	C4'-C3'-C2'	-6.00	96.60	102.60
1	AP	20	G	C8-N9-C4	-6.00	104.00	106.40
2	AM	16	U	C6-N1-C2	6.00	124.60	121.00
3	A1	413	G	C8-N9-C4	-6.00	104.00	106.40
3	A1	419	C	C4'-C3'-C2'	-6.00	96.60	102.60
3	A1	535	A	C8-N9-C4	-6.00	103.40	105.80
25	BB	80	G	C5-N7-C8	-6.00	101.30	104.30
25	BB	2444	G	C1'-O4'-C4'	6.00	114.70	109.90
3	A1	190	A	O4'-C4'-C3'	6.00	110.90	106.10
3	A1	305	G	N7-C8-N9	6.00	116.10	113.10
3	A1	789	U	N1-C2-O2	-6.00	118.60	122.80
3	A1	1136	C	C5-C4-N4	-6.00	116.00	120.20
3	A1	1385	G	N7-C8-N9	-6.00	110.10	113.10
25	BB	813	U	C5'-C4'-O4'	6.00	116.30	109.10
25	BB	886	A	C5-N7-C8	6.00	106.90	103.90
25	BB	1321	A	O4'-C1'-N9	6.00	113.00	108.20
25	BB	1367	A	C1'-O4'-C4'	-6.00	105.10	109.90
25	BB	1488	C	C5-C6-N1	-6.00	118.00	121.00
25	BB	1556	C	C2-N3-C4	-6.00	116.90	119.90
25	BB	2744	G	O4'-C1'-N9	6.00	113.00	108.20
49	BZ	201	ARG	NH1-CZ-NH2	-6.00	112.80	119.40
51	B2	57	ALA	N-CA-CB	-6.00	101.70	110.10
1	AE	15	G	N1-C2-N3	-6.00	120.30	123.90
3	A1	330	C	C5'-C4'-C3'	-6.00	106.41	116.00
3	A1	423	G	N9-C4-C5	-6.00	103.00	105.40
3	A1	443	C	C2-N3-C4	-6.00	116.90	119.90
3	A1	770	C	C2-N1-C1'	-6.00	112.20	118.80
3	A1	1300	G	C8-N9-C1'	6.00	134.80	127.00
3	A1	1343	G	C1'-O4'-C4'	6.00	114.70	109.90
3	A1	1519	A	C2-N3-C4	6.00	113.60	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	245	G	C8-N9-C4	-6.00	104.00	106.40
25	BB	438	G	C5'-C4'-O4'	6.00	116.30	109.10
25	BB	539	G	N3-C4-N9	6.00	129.60	126.00
25	BB	894	U	N3-C4-C5	-6.00	111.00	114.60
25	BB	1350	C	N3-C2-O2	-6.00	117.70	121.90
25	BB	1394	U	C4-C5-C6	6.00	123.30	119.70
25	BB	1453	A	C6-C5-N7	6.00	136.50	132.30
25	BB	1521	G	C5'-C4'-C3'	-6.00	106.40	116.00
25	BB	1900	A	C2-N3-C4	-6.00	107.60	110.60
25	BB	2083	G	C4'-C3'-C2'	-6.00	96.60	102.60
25	BB	2161	C	C5'-C4'-O4'	6.00	116.30	109.10
25	BB	2434	A	C5-C6-N6	6.00	128.50	123.70
25	BB	2640	G	C4-C5-C6	-6.00	115.20	118.80
37	BN	206	LYS	O-C-N	-6.00	113.11	122.70
1	AE	33	U	OP1-P-OP2	-6.00	110.61	119.60
3	A1	79	G	C2-N3-C4	-6.00	108.90	111.90
3	A1	272	C	N1-C2-N3	6.00	123.40	119.20
3	A1	1371	G	C1'-O4'-C4'	-6.00	105.10	109.90
25	BB	863	A	C8-N9-C4	-6.00	103.40	105.80
25	BB	877	A	C5'-C4'-C3'	-6.00	106.41	116.00
25	BB	1248	G	N1-C2-N3	6.00	127.50	123.90
25	BB	2271	G	C1'-O4'-C4'	-6.00	105.10	109.90
25	BB	2364	C	N3-C4-N4	-6.00	113.80	118.00
1	AP	19	G	N9-C1'-C2'	5.99	121.79	114.00
3	A1	303	A	C3'-C2'-C1'	5.99	106.29	101.50
3	A1	1058	G	N9-C1'-C2'	-5.99	105.41	112.00
24	BA	10	G	C4-C5-N7	5.99	113.20	110.80
25	BB	381	G	N3-C2-N2	-5.99	115.70	119.90
25	BB	468	G	N9-C4-C5	5.99	107.80	105.40
25	BB	530	G	C5-C6-O6	-5.99	125.00	128.60
25	BB	820	A	O5'-P-OP2	-5.99	100.31	105.70
25	BB	1013	C	N1-C2-O2	5.99	122.50	118.90
25	BB	1190	G	C5-N7-C8	5.99	107.30	104.30
25	BB	1307	A	P-O3'-C3'	5.99	126.89	119.70
25	BB	1332	G	C2-N3-C4	5.99	114.90	111.90
25	BB	1350	C	N3-C4-N4	-5.99	113.80	118.00
25	BB	1592	C	C4'-C3'-C2'	-5.99	96.61	102.60
25	BB	2019	A	C6-C5-N7	5.99	136.50	132.30
25	BB	2338	C	O4'-C1'-C2'	-5.99	99.81	105.80
3	A1	82	G	C3'-C2'-C1'	5.99	106.29	101.50
3	A1	252	U	O4'-C1'-N1	5.99	112.99	108.20
3	A1	632	U	C5'-C4'-C3'	-5.99	106.41	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1051	C	C4-C5-C6	-5.99	114.40	117.40
3	A1	1114	C	N1-C2-O2	5.99	122.50	118.90
3	A1	1188	A	C2'-C3'-O3'	5.99	123.29	113.70
3	A1	1209	C	C4-C5-C6	5.99	120.40	117.40
3	A1	1419	G	O3'-P-O5'	-5.99	92.62	104.00
3	A1	1468	A	C4'-C3'-C2'	-5.99	96.61	102.60
25	BB	2	G	C6-C5-N7	5.99	134.00	130.40
25	BB	438	G	N3-C2-N2	-5.99	115.70	119.90
25	BB	1128	G	C4-C5-C6	-5.99	115.20	118.80
25	BB	1372	U	N3-C4-O4	-5.99	115.21	119.40
25	BB	1614	A	O5'-P-OP1	-5.99	100.31	105.70
25	BB	1786	A	C4-C5-N7	5.99	113.70	110.70
3	A1	203	G	O4'-C1'-C2'	5.99	112.99	107.60
3	A1	546	A	C5-C6-N6	5.99	128.49	123.70
3	A1	858	G	O4'-C1'-N9	-5.99	103.41	108.20
3	A1	926	G	C1'-O4'-C4'	-5.99	105.11	109.90
3	A1	1018	G	C6-C5-N7	5.99	134.00	130.40
3	A1	1057	G	N9-C4-C5	5.99	107.80	105.40
4	AB	13	VAL	CA-CB-CG1	5.99	119.89	110.90
25	BB	2	G	C4'-C3'-C2'	-5.99	96.61	102.60
25	BB	647	G	N9-C4-C5	-5.99	103.00	105.40
25	BB	677	A	C6-N1-C2	5.99	122.19	118.60
25	BB	797	G	N9-C4-C5	5.99	107.80	105.40
25	BB	986	C	N1-C2-N3	5.99	123.39	119.20
25	BB	1196	C	C4-C5-C6	5.99	120.39	117.40
25	BB	1309	G	C8-N9-C4	-5.99	104.00	106.40
25	BB	1371	G	N1-C2-N2	5.99	121.59	116.20
25	BB	1426	G	C6-N1-C2	-5.99	121.51	125.10
25	BB	1478	G	C6-C5-N7	5.99	134.00	130.40
25	BB	1514	G	C3'-C2'-C1'	-5.99	96.71	101.50
25	BB	1678	A	C3'-C2'-C1'	-5.99	96.71	101.50
25	BB	1704	C	C5-C6-N1	-5.99	118.00	121.00
25	BB	2089	C	N3-C2-O2	-5.99	117.71	121.90
25	BB	2148	G	C5-N7-C8	-5.99	101.30	104.30
25	BB	2405	G	O4'-C1'-N9	-5.99	103.41	108.20
25	BB	2648	G	C5-C6-O6	-5.99	125.01	128.60
25	BB	2692	G	C5-C6-O6	5.99	132.19	128.60
25	BB	2876	G	N3-C2-N2	-5.99	115.71	119.90
1	AE	4	G	O4'-C4'-C3'	5.99	110.89	106.10
3	A1	110	C	C5'-C4'-C3'	-5.99	106.42	116.00
3	A1	220	G	O4'-C1'-N9	5.99	112.99	108.20
3	A1	227	G	C8-N9-C4	-5.99	104.00	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	302	G	C4-C5-C6	-5.99	115.21	118.80
3	A1	786	G	C5-N7-C8	-5.99	101.31	104.30
3	A1	996	A	O4'-C1'-N9	5.99	112.99	108.20
3	A1	1261	A	C2-N3-C4	5.99	113.59	110.60
3	A1	1265	C	C4'-C3'-C2'	-5.99	96.61	102.60
3	A1	1334	G	C8-N9-C4	-5.99	104.00	106.40
15	AO	155	ARG	NH1-CZ-NH2	-5.99	112.81	119.40
25	BB	495	G	C5-N7-C8	-5.99	101.31	104.30
25	BB	531	C	C5'-C4'-C3'	-5.99	106.42	116.00
25	BB	894	U	C4-C5-C6	5.99	123.29	119.70
25	BB	947	A	C3'-C2'-C1'	5.99	106.29	101.50
25	BB	1701	A	C4-C5-C6	-5.99	114.00	117.00
25	BB	1858	A	C5-C6-N1	5.99	120.69	117.70
25	BB	2114	A	C2-N3-C4	5.99	113.59	110.60
25	BB	2491	U	N3-C4-C5	-5.99	111.01	114.60
25	BB	2523	G	C4-C5-N7	-5.99	108.41	110.80
25	BB	2625	G	C4-C5-C6	-5.99	115.21	118.80
3	A1	1434	A	C6-N1-C2	-5.99	115.01	118.60
25	BB	634	C	C4'-C3'-C2'	-5.99	96.61	102.60
25	BB	1103	A	N3-C4-C5	-5.99	122.61	126.80
25	BB	1131	G	C8-N9-C4	-5.99	104.00	106.40
25	BB	1164	C	C2-N3-C4	-5.99	116.91	119.90
25	BB	1652	A	N3-C4-C5	-5.99	122.61	126.80
25	BB	1684	G	C5-N7-C8	5.99	107.29	104.30
25	BB	2777	G	C5-N7-C8	-5.99	101.31	104.30
25	BB	2832	U	N3-C2-O2	-5.99	118.01	122.20
30	BG	46	ARG	NH1-CZ-NH2	-5.99	112.81	119.40
3	A1	188	C	N1-C2-O2	5.99	122.49	118.90
3	A1	275	G	N3-C4-C5	-5.99	125.61	128.60
3	A1	624	C	C1'-O4'-C4'	5.99	114.69	109.90
3	A1	662	U	C6-N1-C2	-5.99	117.41	121.00
3	A1	1216	A	C2'-C3'-O3'	5.99	123.28	113.70
7	AF	36	ALA	C-N-CA	5.99	134.87	122.30
25	BB	323	C	O5'-P-OP2	-5.99	100.31	105.70
25	BB	805	G	C1'-O4'-C4'	-5.99	105.11	109.90
25	BB	1012	U	N1-C1'-C2'	5.99	121.78	114.00
25	BB	1379	U	C4-C5-C6	5.99	123.29	119.70
25	BB	1418	G	O4'-C1'-N9	5.99	112.99	108.20
25	BB	1958	C	O4'-C1'-C2'	-5.99	99.81	105.80
25	BB	2396	G	C4-C5-C6	-5.99	115.21	118.80
25	BB	2475	C	N3-C2-O2	-5.99	117.71	121.90
51	B2	166	ARG	CA-C-N	5.99	130.37	117.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
55	B6	37	ARG	CD-NE-CZ	5.99	131.98	123.60
1	AA	17	U	P-O3'-C3'	5.98	126.88	119.70
3	A1	102	G	N3-C4-C5	-5.98	125.61	128.60
3	A1	1221	G	C6-C5-N7	5.98	133.99	130.40
24	BA	97	C	C5-C4-N4	-5.98	116.01	120.20
25	BB	715	A	O4'-C4'-C3'	5.98	110.89	106.10
25	BB	1023	U	C5-C6-N1	-5.98	119.71	122.70
25	BB	1648	U	C5'-C4'-O4'	5.98	116.28	109.10
25	BB	2213	U	C3'-C2'-C1'	5.98	106.29	101.50
25	BB	2384	U	C5-C4-O4	-5.98	122.31	125.90
3	A1	496	A	C5-N7-C8	-5.98	100.91	103.90
3	A1	987	G	N9-C4-C5	5.98	107.79	105.40
25	BB	384	A	O5'-C5'-C4'	-5.98	100.33	111.70
25	BB	1113	U	N3-C2-O2	-5.98	118.01	122.20
25	BB	1221	C	N1-C2-O2	5.98	122.49	118.90
25	BB	1485	U	C5-C4-O4	5.98	129.49	125.90
25	BB	1567	G	N1-C2-N3	-5.98	120.31	123.90
25	BB	1845	G	C6-N1-C2	-5.98	121.51	125.10
25	BB	1966	A	C6-N1-C2	-5.98	115.01	118.60
25	BB	2086	U	C2-N3-C4	-5.98	123.41	127.00
25	BB	2532	G	C6-C5-N7	5.98	133.99	130.40
25	BB	2895	G	C5-C6-N1	5.98	114.49	111.50
1	AE	48	C	O4'-C1'-N1	5.98	112.98	108.20
3	A1	434	U	N1-C2-N3	5.98	118.49	114.90
3	A1	509	A	C5-C6-N6	5.98	128.49	123.70
3	A1	805	C	C5'-C4'-C3'	-5.98	106.43	116.00
5	AC	55	ARG	NH1-CZ-NH2	-5.98	112.82	119.40
25	BB	200	U	O4'-C1'-N1	5.98	112.98	108.20
25	BB	526	A	N3-C4-C5	5.98	130.99	126.80
25	BB	1875	G	C3'-C2'-C1'	5.98	106.28	101.50
25	BB	1875	G	N3-C2-N2	-5.98	115.71	119.90
25	BB	2370	G	C8-N9-C4	-5.98	104.01	106.40
25	BB	2560	A	C2-N3-C4	5.98	113.59	110.60
25	BB	2615	U	C3'-C2'-C1'	-5.98	96.72	101.50
12	AK	62	ARG	CD-NE-CZ	5.98	131.97	123.60
27	BD	79	PHE	CB-CG-CD2	5.98	124.98	120.80
1	AA	66	A	C5-C6-N1	5.98	120.69	117.70
1	AA	74	C	C6-N1-C2	-5.98	117.91	120.30
1	AE	57	G	N9-C1'-C2'	-5.98	105.42	112.00
3	A1	67	C	N1-C2-O2	5.98	122.49	118.90
3	A1	243	A	C5-C6-N1	5.98	120.69	117.70
3	A1	757	U	O4'-C4'-C3'	5.98	110.88	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	986	U	P-O3'-C3'	5.98	126.87	119.70
3	A1	1378	C	N1-C2-O2	5.98	122.49	118.90
25	BB	284	U	C4'-C3'-C2'	-5.98	96.62	102.60
25	BB	357	C	C3'-C2'-C1'	5.98	106.28	101.50
25	BB	387	U	N1-C2-N3	5.98	118.49	114.90
25	BB	662	G	N3-C4-C5	-5.98	125.61	128.60
25	BB	887	U	N3-C4-C5	5.98	118.19	114.60
25	BB	1475	G	C1'-O4'-C4'	-5.98	105.12	109.90
25	BB	1535	A	C8-N9-C4	-5.98	103.41	105.80
25	BB	1553	A	N3-C4-N9	-5.98	122.62	127.40
25	BB	1609	A	N7-C8-N9	-5.98	110.81	113.80
25	BB	2313	C	C5-C4-N4	5.98	124.38	120.20
25	BB	2567	G	N1-C2-N2	5.98	121.58	116.20
25	BB	2601	C	N3-C2-O2	-5.98	117.72	121.90
25	BB	2778	A	P-O3'-C3'	5.98	126.87	119.70
48	BY	197	THR	N-CA-C	5.98	127.14	111.00
3	A1	1074	G	N9-C4-C5	5.98	107.79	105.40
25	BB	112	U	N1-C1'-C2'	-5.98	105.43	112.00
25	BB	937	C	C5-C6-N1	-5.98	118.01	121.00
25	BB	1059	G	N3-C4-N9	-5.98	122.41	126.00
25	BB	1599	U	O4'-C1'-C2'	-5.98	99.82	105.80
26	BC	9	ARG	CD-NE-CZ	5.98	131.97	123.60
1	AP	57	G	N9-C4-C5	5.97	107.79	105.40
3	A1	118	U	N1-C2-N3	5.97	118.48	114.90
3	A1	146	G	N1-C2-N3	5.97	127.48	123.90
3	A1	245	U	N1-C2-N3	5.97	118.48	114.90
3	A1	907	A	C6-N1-C2	-5.97	115.02	118.60
3	A1	1011	C	C2-N3-C4	-5.97	116.91	119.90
3	A1	1034	G	N1-C2-N3	5.97	127.48	123.90
3	A1	1146	A	C6-C5-N7	5.97	136.48	132.30
3	A1	1487	G	C2-N3-C4	5.97	114.89	111.90
25	BB	34	U	C6-N1-C2	-5.97	117.42	121.00
25	BB	363	G	N3-C4-N9	5.97	129.59	126.00
25	BB	404	A	C6-C5-N7	5.97	136.48	132.30
25	BB	706	A	C4-C5-C6	-5.97	114.01	117.00
25	BB	1068	G	P-O3'-C3'	5.97	126.87	119.70
25	BB	1222	U	P-O3'-C3'	5.97	126.87	119.70
25	BB	1284	A	C5-C6-N6	5.97	128.48	123.70
25	BB	1551	A	C5-C6-N6	5.97	128.48	123.70
25	BB	1593	A	N3-C4-N9	5.97	132.18	127.40
25	BB	1743	G	N9-C4-C5	5.97	107.79	105.40
49	BZ	135	PRO	N-CA-CB	5.97	110.47	103.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AP	47	U	C5-C4-O4	-5.97	122.32	125.90
1	AE	67	A	O5'-P-OP2	5.97	117.87	110.70
3	A1	126	G	O4'-C4'-C3'	5.97	110.88	106.10
3	A1	427	U	C1'-O4'-C4'	-5.97	105.12	109.90
3	A1	614	C	N3-C4-N4	5.97	122.18	118.00
3	A1	674	G	C8-N9-C4	-5.97	104.01	106.40
3	A1	700	G	C5-C6-O6	5.97	132.18	128.60
3	A1	994	A	C5-N7-C8	-5.97	100.91	103.90
3	A1	1264	U	C5-C4-O4	-5.97	122.32	125.90
3	A1	1349	A	C4-C5-N7	-5.97	107.71	110.70
3	A1	1359	C	N1-C2-O2	5.97	122.48	118.90
3	A1	1386	G	N9-C1'-C2'	-5.97	105.43	112.00
25	BB	362	A	C4-C5-N7	5.97	113.69	110.70
25	BB	625	G	O3'-P-O5'	-5.97	92.65	104.00
25	BB	974	G	C2-N3-C4	-5.97	108.91	111.90
25	BB	994	C	C5'-C4'-O4'	5.97	116.27	109.10
25	BB	1012	U	C3'-C2'-C1'	5.97	106.28	101.50
25	BB	1313	U	O4'-C4'-C3'	5.97	110.88	106.10
25	BB	1324	G	N1-C6-O6	-5.97	116.32	119.90
25	BB	1417	C	C5'-C4'-O4'	5.97	116.27	109.10
25	BB	1596	A	O4'-C4'-C3'	5.97	110.88	106.10
25	BB	1807	G	C8-N9-C4	-5.97	104.01	106.40
25	BB	1863	G	C4-C5-C6	-5.97	115.22	118.80
25	BB	2068	U	C4'-C3'-C2'	-5.97	96.63	102.60
25	BB	2236	U	C6-N1-C2	-5.97	117.42	121.00
25	BB	2567	G	N9-C4-C5	5.97	107.79	105.40
25	BB	2605	U	C5-C4-O4	-5.97	122.32	125.90
25	BB	2878	U	O4'-C4'-C3'	5.97	110.88	106.10
3	A1	237	G	C1'-O4'-C4'	5.97	114.68	109.90
3	A1	414	A	N1-C2-N3	-5.97	126.31	129.30
3	A1	933	G	N1-C6-O6	-5.97	116.32	119.90
3	A1	967	C	O4'-C1'-N1	5.97	112.98	108.20
25	BB	718	A	N7-C8-N9	5.97	116.79	113.80
39	BP	58	LEU	N-CA-C	5.97	127.12	111.00
1	AP	63	C	C5-C6-N1	-5.97	118.02	121.00
3	A1	763	G	C5'-C4'-O4'	5.97	116.26	109.10
3	A1	1265	C	C5-C6-N1	-5.97	118.02	121.00
3	A1	1308	U	C1'-O4'-C4'	-5.97	105.12	109.90
3	A1	1441	A	N9-C4-C5	-5.97	103.41	105.80
25	BB	108	G	OP1-P-O3'	5.97	118.33	105.20
25	BB	177	G	C5-N7-C8	-5.97	101.31	104.30
25	BB	689	A	N7-C8-N9	5.97	116.78	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	724	U	P-O3'-C3'	5.97	126.86	119.70
25	BB	737	C	N3-C4-N4	-5.97	113.82	118.00
25	BB	830	G	C3'-C2'-C1'	-5.97	96.72	101.50
25	BB	1145	C	C5-C6-N1	-5.97	118.02	121.00
25	BB	1345	C	C5-C4-N4	-5.97	116.02	120.20
25	BB	2040	G	C5-N7-C8	-5.97	101.31	104.30
25	BB	2419	U	C4'-C3'-O3'	5.97	124.94	113.00
25	BB	2750	A	N9-C1'-C2'	-5.97	105.43	112.00
25	BB	2870	C	C3'-C2'-C1'	5.97	106.28	101.50
49	BZ	98	ARG	CB-CA-C	5.97	122.34	110.40
1	AA	55	U	C4-C5-C6	5.97	123.28	119.70
1	AA	63	C	C5-C6-N1	-5.97	118.02	121.00
25	BB	1550	C	N3-C4-C5	5.97	124.29	121.90
25	BB	2056	G	C1'-O4'-C4'	-5.97	105.12	109.90
38	BO	23	LYS	CA-CB-CG	5.97	126.53	113.40
3	A1	347	G	N9-C4-C5	5.97	107.79	105.40
3	A1	736	C	N1-C2-N3	5.97	123.38	119.20
3	A1	952	U	C4'-C3'-C2'	-5.97	96.63	102.60
3	A1	1160	G	C1'-O4'-C4'	-5.97	105.13	109.90
3	A1	1317	C	C4-C5-C6	-5.97	114.42	117.40
3	A1	1442	G	C5-C6-O6	5.97	132.18	128.60
4	AB	140	LEU	CB-CG-CD1	5.97	121.14	111.00
25	BB	36	G	C4'-C3'-C2'	-5.97	96.63	102.60
25	BB	103	A	N3-C4-N9	-5.97	122.63	127.40
25	BB	180	G	C1'-O4'-C4'	-5.97	105.13	109.90
25	BB	450	G	O4'-C1'-N9	-5.97	103.43	108.20
25	BB	644	A	C6-C5-N7	5.97	136.48	132.30
25	BB	2126	A	O4'-C1'-N9	5.97	112.97	108.20
25	BB	2249	U	N1-C2-N3	5.97	118.48	114.90
25	BB	2271	G	N3-C4-C5	-5.97	125.62	128.60
25	BB	2466	C	C5'-C4'-C3'	-5.97	106.45	116.00
25	BB	2583	G	C4'-C3'-C2'	-5.97	96.63	102.60
25	BB	2611	C	C5-C6-N1	-5.97	118.02	121.00
25	BB	2880	C	N1-C2-N3	5.97	123.38	119.20
3	A1	9	G	N9-C4-C5	5.96	107.79	105.40
3	A1	165	G	C5-C6-N1	5.96	114.48	111.50
3	A1	608	A	C3'-C2'-C1'	5.96	106.27	101.50
3	A1	1269	A	C8-N9-C4	-5.96	103.41	105.80
25	BB	173	A	C5-N7-C8	-5.96	100.92	103.90
25	BB	404	A	N7-C8-N9	5.96	116.78	113.80
25	BB	459	U	O5'-P-OP2	-5.96	100.33	105.70
25	BB	465	G	N3-C2-N2	-5.96	115.72	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1047	G	N7-C8-N9	5.96	116.08	113.10
25	BB	1666	G	N1-C2-N3	5.96	127.48	123.90
25	BB	2127	G	C3'-C2'-C1'	5.96	106.27	101.50
25	BB	2446	G	P-O3'-C3'	5.96	126.86	119.70
25	BB	2484	G	C4-C5-C6	-5.96	115.22	118.80
25	BB	2601	C	N3-C4-C5	5.96	124.29	121.90
3	A1	130	A	C5'-C4'-C3'	-5.96	106.46	116.00
3	A1	236	A	N1-C2-N3	5.96	132.28	129.30
24	BA	95	U	N3-C2-O2	-5.96	118.03	122.20
25	BB	944	C	C4-C5-C6	5.96	120.38	117.40
25	BB	1309	G	N9-C1'-C2'	5.96	121.75	114.00
25	BB	1460	U	C5'-C4'-C3'	-5.96	106.46	116.00
25	BB	1602	U	O4'-C4'-C3'	5.96	110.87	106.10
25	BB	1952	A	C4-C5-N7	5.96	113.68	110.70
25	BB	1954	G	N3-C4-N9	5.96	129.58	126.00
25	BB	2860	A	O4'-C1'-C2'	5.96	112.97	107.60
25	BB	2900	A	O4'-C1'-N9	5.96	112.97	108.20
1	AP	7	U	O4'-C4'-C3'	5.96	110.87	106.10
1	AP	48	C	C5'-C4'-C3'	-5.96	106.46	116.00
3	A1	96	U	N1-C2-O2	-5.96	118.63	122.80
3	A1	466	A	C6-C5-N7	5.96	136.47	132.30
3	A1	636	U	C5-C6-N1	-5.96	119.72	122.70
3	A1	812	G	C5-N7-C8	-5.96	101.32	104.30
3	A1	1094	G	C3'-C2'-C1'	-5.96	96.73	101.50
3	A1	1474	U	C3'-C2'-C1'	-5.96	96.73	101.50
25	BB	647	G	O4'-C1'-N9	5.96	112.97	108.20
25	BB	794	A	C2-N3-C4	5.96	113.58	110.60
25	BB	831	G	C4-C5-N7	-5.96	108.42	110.80
25	BB	1262	A	C8-N9-C4	5.96	108.19	105.80
25	BB	1714	U	C4'-C3'-C2'	-5.96	96.64	102.60
25	BB	2117	A	N7-C8-N9	5.96	116.78	113.80
25	BB	2430	A	O5'-C5'-C4'	-5.96	100.37	111.70
46	BW	4	LYS	C-N-CA	5.96	136.60	121.70
3	A1	240	G	N9-C1'-C2'	5.96	121.75	114.00
3	A1	275	G	C5-C6-N1	5.96	114.48	111.50
3	A1	704	A	C4-C5-N7	5.96	113.68	110.70
3	A1	1384	C	N3-C4-C5	-5.96	119.52	121.90
25	BB	1679	A	C5-C6-N1	5.96	120.68	117.70
25	BB	1695	G	C4-C5-C6	-5.96	115.22	118.80
3	A1	39	G	C5'-C4'-O4'	5.96	116.25	109.10
3	A1	77	A	C5-C6-N1	5.96	120.68	117.70
3	A1	110	C	C5'-C4'-O4'	5.96	116.25	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	200	G	N3-C4-N9	5.96	129.57	126.00
3	A1	237	G	O4'-C1'-N9	5.96	112.97	108.20
3	A1	665	A	O4'-C1'-C2'	-5.96	99.84	105.80
3	A1	1166	G	O4'-C1'-N9	5.96	112.97	108.20
25	BB	435	C	C4-C5-C6	-5.96	114.42	117.40
25	BB	1325	U	N1-C2-O2	5.96	126.97	122.80
25	BB	1435	G	O4'-C1'-N9	5.96	112.97	108.20
25	BB	1460	U	C4'-C3'-C2'	-5.96	96.64	102.60
25	BB	2803	G	C5-N7-C8	5.96	107.28	104.30
3	A1	543	U	N1-C2-N3	5.96	118.47	114.90
3	A1	636	U	O4'-C1'-N1	5.96	112.97	108.20
3	A1	711	G	N3-C4-N9	5.96	129.57	126.00
3	A1	874	G	C5'-C4'-C3'	-5.96	106.47	116.00
24	BA	78	A	C1'-O4'-C4'	-5.96	105.14	109.90
25	BB	103	A	C5-N7-C8	-5.96	100.92	103.90
25	BB	160	A	C2-N3-C4	5.96	113.58	110.60
25	BB	452	G	N3-C4-N9	5.96	129.57	126.00
25	BB	693	A	C2-N3-C4	5.96	113.58	110.60
25	BB	844	A	C5-C6-N6	5.96	128.46	123.70
25	BB	1184	U	C4'-C3'-C2'	-5.96	96.64	102.60
25	BB	1223	G	N3-C4-N9	-5.96	122.43	126.00
25	BB	1254	A	C2-N3-C4	5.96	113.58	110.60
25	BB	1266	G	N3-C4-N9	5.96	129.57	126.00
25	BB	1917	U	C4-C5-C6	5.96	123.27	119.70
25	BB	2026	U	N1-C1'-C2'	5.96	121.74	114.00
25	BB	2165	C	C5'-C4'-O4'	5.96	116.25	109.10
25	BB	2275	C	C5'-C4'-O4'	5.96	116.25	109.10
25	BB	2492	U	N3-C4-O4	-5.96	115.23	119.40
25	BB	2837	A	C5'-C4'-O4'	5.96	116.25	109.10
25	BB	2848	G	C8-N9-C4	-5.96	104.02	106.40
37	BN	204	LEU	CA-CB-CG	5.96	129.00	115.30
42	BS	58	ASP	CB-CG-OD1	5.96	123.66	118.30
3	A1	144	G	N1-C2-N3	5.96	127.47	123.90
3	A1	734	G	C4-C5-N7	-5.96	108.42	110.80
3	A1	776	G	N1-C6-O6	-5.96	116.33	119.90
3	A1	1050	G	C4-C5-N7	5.96	113.18	110.80
3	A1	1145	A	C4-C5-N7	5.96	113.68	110.70
3	A1	1297	G	O3'-P-O5'	-5.96	92.69	104.00
25	BB	181	A	O4'-C1'-N9	5.96	112.96	108.20
25	BB	700	G	C1'-O4'-C4'	5.96	114.66	109.90
25	BB	1863	G	C6-N1-C2	-5.96	121.53	125.10
25	BB	2661	G	C1'-O4'-C4'	-5.96	105.14	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AP	31	A	C4-C5-C6	-5.95	114.02	117.00
3	A1	257	G	N9-C4-C5	5.95	107.78	105.40
3	A1	260	G	C5-N7-C8	-5.95	101.32	104.30
3	A1	634	C	N1-C1'-C2'	-5.95	105.45	112.00
3	A1	881	G	C3'-C2'-C1'	-5.95	96.74	101.50
3	A1	889	A	N9-C4-C5	5.95	108.18	105.80
3	A1	1165	U	C5-C4-O4	5.95	129.47	125.90
3	A1	1357	A	C5-C6-N1	5.95	120.68	117.70
17	AR	138	PRO	N-CD-CG	5.95	112.13	103.20
25	BB	34	U	P-O3'-C3'	5.95	126.84	119.70
25	BB	158	U	C5-C4-O4	5.95	129.47	125.90
25	BB	469	G	C6-N1-C2	5.95	128.67	125.10
25	BB	538	A	N1-C2-N3	-5.95	126.32	129.30
25	BB	1033	U	O4'-C1'-N1	5.95	112.96	108.20
25	BB	1553	A	N9-C4-C5	5.95	108.18	105.80
25	BB	1588	G	C4-N9-C1'	-5.95	118.76	126.50
25	BB	1869	G	N7-C8-N9	5.95	116.08	113.10
25	BB	1992	G	C4-C5-N7	5.95	113.18	110.80
25	BB	2340	A	N7-C8-N9	5.95	116.78	113.80
25	BB	2510	C	C3'-C2'-C1'	5.95	106.26	101.50
25	BB	2570	G	P-O3'-C3'	5.95	126.84	119.70
25	BB	2765	A	C4-C5-N7	5.95	113.68	110.70
25	BB	2794	C	C2-N3-C4	-5.95	116.92	119.90
1	AA	8	U	C2'-C3'-O3'	5.95	123.22	113.70
1	AA	75	C	C1'-O4'-C4'	-5.95	105.14	109.90
3	A1	32	A	C3'-C2'-C1'	-5.95	96.74	101.50
3	A1	162	A	C8-N9-C4	5.95	108.18	105.80
24	BA	94	A	C1'-O4'-C4'	-5.95	105.14	109.90
25	BB	169	G	C5'-C4'-O4'	-5.95	101.96	109.10
25	BB	199	A	C5-C6-N1	5.95	120.68	117.70
25	BB	1423	G	O3'-P-O5'	-5.95	92.69	104.00
25	BB	1650	A	C5-C6-N6	5.95	128.46	123.70
25	BB	1718	G	N3-C2-N2	-5.95	115.73	119.90
25	BB	2256	G	N1-C2-N2	-5.95	110.84	116.20
25	BB	2750	A	C6-C5-N7	5.95	136.47	132.30
3	A1	823	C	C3'-C2'-C1'	5.95	106.26	101.50
24	BA	14	U	C6-N1-C2	-5.95	117.43	121.00
24	BA	19	C	C2-N3-C4	-5.95	116.92	119.90
25	BB	273	G	C1'-O4'-C4'	-5.95	105.14	109.90
25	BB	527	C	C1'-O4'-C4'	-5.95	105.14	109.90
25	BB	1326	U	O4'-C1'-N1	5.95	112.96	108.20
25	BB	1849	G	C1'-O4'-C4'	-5.95	105.14	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1992	G	C4'-C3'-C2'	-5.95	96.65	102.60
25	BB	2226	C	C3'-C2'-C1'	5.95	106.26	101.50
25	BB	2782	G	N7-C8-N9	5.95	116.08	113.10
37	BN	132	ARG	CD-NE-CZ	5.95	131.93	123.60
1	AE	53	G	C5-C6-N1	5.95	114.47	111.50
3	A1	288	A	C2-N3-C4	5.95	113.58	110.60
3	A1	1003	G	C8-N9-C4	-5.95	104.02	106.40
3	A1	1253	G	P-O3'-C3'	-5.95	112.56	119.70
3	A1	1418	A	C4'-C3'-O3'	5.95	124.90	113.00
3	A1	1471	U	C5-C4-O4	-5.95	122.33	125.90
24	BA	26	C	P-O3'-C3'	5.95	126.84	119.70
24	BA	61	G	C4-N9-C1'	-5.95	118.77	126.50
25	BB	177	G	C6-N1-C2	-5.95	121.53	125.10
25	BB	600	G	N3-C4-C5	-5.95	125.62	128.60
25	BB	631	A	N9-C4-C5	5.95	108.18	105.80
25	BB	918	A	C8-N9-C4	-5.95	103.42	105.80
25	BB	1414	C	N3-C4-C5	5.95	124.28	121.90
25	BB	1449	G	C4-C5-C6	-5.95	115.23	118.80
25	BB	1808	A	C4-C5-N7	5.95	113.67	110.70
25	BB	2318	G	N3-C2-N2	-5.95	115.73	119.90
25	BB	2506	U	P-O3'-C3'	5.95	126.84	119.70
25	BB	2778	A	C6-N1-C2	-5.95	115.03	118.60
25	BB	2804	U	C5'-C4'-C3'	-5.95	106.48	116.00
3	A1	975	A	N1-C2-N3	-5.95	126.33	129.30
3	A1	1312	G	C6-N1-C2	5.95	128.67	125.10
25	BB	140	C	N3-C4-C5	5.95	124.28	121.90
25	BB	940	G	N9-C4-C5	5.95	107.78	105.40
25	BB	1752	C	O4'-C4'-C3'	-5.95	98.05	104.00
52	B3	68	ARG	NE-CZ-NH1	-5.95	117.33	120.30
1	AE	9	A	OP1-P-OP2	-5.95	110.68	119.60
3	A1	45	G	N7-C8-N9	5.95	116.07	113.10
3	A1	124	C	C5-C4-N4	5.95	124.36	120.20
3	A1	300	A	C5-C6-N1	5.95	120.67	117.70
3	A1	792	A	OP1-P-O3'	5.95	118.28	105.20
3	A1	931	C	N3-C2-O2	-5.95	117.74	121.90
3	A1	1044	A	O4'-C1'-N9	-5.95	103.44	108.20
3	A1	1223	C	C5'-C4'-C3'	-5.95	106.49	116.00
3	A1	1299	A	C5-N7-C8	-5.95	100.93	103.90
3	A1	1453	G	N1-C6-O6	-5.95	116.33	119.90
3	A1	1495	U	C3'-C2'-C1'	5.95	106.26	101.50
13	AL	52	ASN	O-C-N	-5.95	113.09	123.20
19	AT	32	ALA	N-CA-CB	-5.95	101.78	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	289	G	C5-N7-C8	-5.95	101.33	104.30
25	BB	375	G	C5-C6-O6	-5.95	125.03	128.60
25	BB	389	G	O4'-C1'-N9	5.95	112.96	108.20
25	BB	551	G	C4'-C3'-C2'	-5.95	96.66	102.60
25	BB	886	A	C4-C5-C6	-5.95	114.03	117.00
25	BB	1132	U	C5'-C4'-O4'	5.95	116.23	109.10
25	BB	1358	G	C2-N3-C4	-5.95	108.93	111.90
25	BB	1680	U	C1'-O4'-C4'	-5.95	105.14	109.90
25	BB	2068	U	C2-N3-C4	-5.95	123.43	127.00
25	BB	2718	G	C4'-C3'-C2'	-5.95	96.66	102.60
37	BN	3	VAL	CA-CB-CG2	5.95	119.82	110.90
3	A1	337	G	N9-C4-C5	5.94	107.78	105.40
25	BB	305	C	O4'-C1'-N1	5.94	112.95	108.20
25	BB	1186	G	C4-C5-N7	-5.94	108.42	110.80
25	BB	1339	G	O4'-C1'-N9	5.94	112.95	108.20
25	BB	1432	G	O4'-C4'-C3'	-5.94	98.06	104.00
3	A1	325	A	O4'-C4'-C3'	5.94	110.85	106.10
3	A1	1407	C	C5'-C4'-C3'	-5.94	106.49	116.00
17	AR	128	VAL	CA-CB-CG1	5.94	119.81	110.90
25	BB	707	G	C4-C5-C6	-5.94	115.23	118.80
25	BB	890	C	O4'-C4'-C3'	5.94	110.85	106.10
25	BB	1640	A	C1'-O4'-C4'	5.94	114.65	109.90
25	BB	1716	U	N3-C4-C5	5.94	118.17	114.60
25	BB	1848	A	C5-C6-N1	5.94	120.67	117.70
25	BB	2034	U	C4-C5-C6	5.94	123.27	119.70
25	BB	2719	G	C6-C5-N7	5.94	133.97	130.40
25	BB	2743	U	C5'-C4'-C3'	-5.94	106.49	116.00
32	BI	71	ARG	CD-NE-CZ	5.94	131.92	123.60
40	BQ	23	ARG	NE-CZ-NH2	-5.94	117.33	120.30
1	AP	1	G	C2-N3-C4	5.94	114.87	111.90
3	A1	327	A	N3-C4-C5	-5.94	122.64	126.80
3	A1	1116	U	O4'-C1'-N1	5.94	112.95	108.20
3	A1	1292	G	N3-C4-C5	-5.94	125.63	128.60
24	BA	45	A	P-O3'-C3'	5.94	126.83	119.70
25	BB	191	A	C6-N1-C2	-5.94	115.04	118.60
25	BB	911	A	C2-N3-C4	5.94	113.57	110.60
25	BB	1364	G	C5'-C4'-C3'	-5.94	106.50	116.00
25	BB	1735	A	P-O5'-C5'	5.94	130.41	120.90
25	BB	2165	C	N3-C4-N4	-5.94	113.84	118.00
25	BB	2625	G	N1-C2-N2	5.94	121.55	116.20
25	BB	2795	C	C6-N1-C2	-5.94	117.92	120.30
3	A1	609	A	C4'-C3'-C2'	-5.94	96.66	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
21	AV	64	TYR	CZ-CE2-CD2	5.94	125.14	119.80
25	BB	232	G	N3-C2-N2	-5.94	115.74	119.90
25	BB	1052	C	N1-C1'-C2'	-5.94	105.47	112.00
25	BB	1063	G	P-O3'-C3'	5.94	126.83	119.70
25	BB	1182	G	N3-C4-C5	-5.94	125.63	128.60
25	BB	1187	G	C2-N3-C4	5.94	114.87	111.90
25	BB	1291	C	N3-C2-O2	-5.94	117.74	121.90
25	BB	1617	C	C2'-C3'-O3'	5.94	123.20	113.70
25	BB	1718	G	N7-C8-N9	5.94	116.07	113.10
25	BB	2101	A	C3'-C2'-C1'	5.94	106.25	101.50
25	BB	2215	C	N3-C2-O2	-5.94	117.74	121.90
1	AA	21	A	C3'-C2'-C1'	5.94	106.25	101.50
1	AE	65	G	C4-C5-N7	-5.94	108.42	110.80
3	A1	1401	G	O4'-C1'-C2'	-5.94	99.86	105.80
17	AR	71	PHE	CB-CG-CD1	5.94	124.96	120.80
24	BA	86	G	C8-N9-C4	-5.94	104.03	106.40
25	BB	400	G	C6-N1-C2	-5.94	121.54	125.10
25	BB	447	A	C4-C5-N7	-5.94	107.73	110.70
25	BB	777	G	C5'-C4'-C3'	-5.94	106.50	116.00
25	BB	828	U	C4-C5-C6	5.94	123.26	119.70
25	BB	952	G	O4'-C1'-N9	-5.94	103.45	108.20
25	BB	1228	G	O4'-C4'-C3'	5.94	110.85	106.10
25	BB	1235	G	O4'-C4'-C3'	5.94	110.85	106.10
25	BB	1412	U	C3'-C2'-C1'	5.94	106.25	101.50
25	BB	1415	U	C5-C4-O4	-5.94	122.34	125.90
25	BB	1591	A	C5-C6-N6	5.94	128.45	123.70
25	BB	1730	C	C4-C5-C6	5.94	120.37	117.40
25	BB	2175	C	N3-C2-O2	-5.94	117.74	121.90
25	BB	2416	C	C5'-C4'-O4'	5.94	116.23	109.10
3	A1	1473	G	C6-C5-N7	5.94	133.96	130.40
24	BA	32	U	O5'-P-OP1	5.94	117.82	110.70
25	BB	35	G	C3'-C2'-C1'	5.94	106.25	101.50
25	BB	100	U	C4-C5-C6	5.94	123.26	119.70
25	BB	1285	A	C5-N7-C8	-5.94	100.93	103.90
25	BB	2729	G	N7-C8-N9	5.94	116.07	113.10
1	AP	51	G	N9-C1'-C2'	-5.93	105.47	112.00
3	A1	107	G	C5-N7-C8	-5.93	101.33	104.30
3	A1	142	G	N9-C4-C5	5.93	107.77	105.40
3	A1	698	G	N7-C8-N9	5.93	116.07	113.10
3	A1	1040	U	O4'-C1'-N1	5.93	112.95	108.20
24	BA	26	C	C5'-C4'-O4'	5.93	116.22	109.10
24	BA	55	U	C4'-C3'-C2'	-5.93	96.67	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	305	C	C6-N1-C2	5.93	122.67	120.30
25	BB	525	U	C6-N1-C2	-5.93	117.44	121.00
25	BB	850	U	N3-C2-O2	-5.93	118.05	122.20
25	BB	878	A	C5-N7-C8	5.93	106.87	103.90
25	BB	1524	G	N1-C6-O6	-5.93	116.34	119.90
25	BB	2486	C	N1-C2-O2	5.93	122.46	118.90
25	BB	2881	U	N3-C2-O2	-5.93	118.05	122.20
39	BP	38	ARG	O-C-N	5.93	132.19	122.70
1	AA	60	C	C5-C4-N4	5.93	124.35	120.20
1	AA	75	C	C5-C6-N1	-5.93	118.03	121.00
3	A1	161	A	C4'-C3'-C2'	-5.93	96.67	102.60
3	A1	205	A	C5-C6-N6	5.93	128.45	123.70
3	A1	814	A	C5'-C4'-O4'	5.93	116.22	109.10
3	A1	1145	A	C5-C6-N1	5.93	120.67	117.70
3	A1	1325	C	N3-C4-C5	5.93	124.27	121.90
17	AR	134	TYR	CD1-CG-CD2	5.93	124.42	117.90
25	BB	95	A	N1-C2-N3	5.93	132.27	129.30
25	BB	301	G	N3-C2-N2	-5.93	115.75	119.90
25	BB	340	A	C5'-C4'-O4'	-5.93	101.98	109.10
25	BB	1687	G	C3'-C2'-C1'	5.93	106.25	101.50
25	BB	2359	C	N3-C4-N4	-5.93	113.85	118.00
25	BB	2383	G	C5-C6-N1	5.93	114.47	111.50
25	BB	2591	C	N3-C2-O2	-5.93	117.75	121.90
25	BB	2890	G	C8-N9-C4	-5.93	104.03	106.40
37	BN	268	ARG	NH1-CZ-NH2	-5.93	112.87	119.40
38	BO	97	SER	CB-CA-C	5.93	121.37	110.10
3	A1	42	G	N3-C4-N9	5.93	129.56	126.00
3	A1	372	C	P-O3'-C3'	5.93	126.82	119.70
3	A1	1298	U	C5-C4-O4	5.93	129.46	125.90
24	BA	11	C	C3'-C2'-C1'	5.93	106.25	101.50
25	BB	499	U	O4'-C1'-N1	5.93	112.94	108.20
25	BB	1389	G	N1-C2-N3	5.93	127.46	123.90
25	BB	2475	C	C2-N3-C4	-5.93	116.93	119.90
25	BB	2896	C	O5'-C5'-C4'	5.93	122.97	111.70
35	BL	2	GLU	OE1-CD-OE2	-5.93	116.18	123.30
1	AE	42	G	P-O5'-C5'	5.93	130.39	120.90
3	A1	537	G	C5'-C4'-O4'	5.93	116.21	109.10
3	A1	842	U	C5-C6-N1	-5.93	119.73	122.70
3	A1	848	C	N1-C2-O2	5.93	122.46	118.90
3	A1	914	A	N3-C4-N9	-5.93	122.66	127.40
25	BB	197	A	C2-N3-C4	5.93	113.56	110.60
25	BB	491	G	N3-C2-N2	5.93	124.05	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	528	A	C2-N3-C4	-5.93	107.64	110.60
25	BB	630	G	N1-C2-N2	5.93	121.54	116.20
25	BB	1310	G	C5-C6-N1	5.93	114.47	111.50
25	BB	1317	G	C6-C5-N7	5.93	133.96	130.40
25	BB	1529	G	C4-C5-C6	-5.93	115.24	118.80
25	BB	1686	C	O4'-C1'-C2'	-5.93	99.87	105.80
25	BB	2061	G	C8-N9-C4	5.93	108.77	106.40
50	B1	121	VAL	CA-CB-CG1	5.93	119.79	110.90
52	B3	52	GLY	N-CA-C	5.93	127.93	113.10
3	A1	1193	G	N7-C8-N9	5.93	116.06	113.10
6	AD	93	ARG	NE-CZ-NH1	5.93	123.26	120.30
25	BB	107	G	C8-N9-C4	-5.93	104.03	106.40
25	BB	596	U	C5'-C4'-C3'	-5.93	106.52	116.00
25	BB	1171	G	C4'-C3'-C2'	-5.93	96.67	102.60
25	BB	1192	G	O4'-C4'-C3'	5.93	110.84	106.10
25	BB	2359	C	C1'-O4'-C4'	5.93	114.64	109.90
25	BB	2604	U	C4-C5-C6	5.93	123.26	119.70
26	BC	9	ARG	NE-CZ-NH1	5.93	123.26	120.30
1	AE	24	G	O5'-C5'-C4'	-5.93	100.44	111.70
1	AE	53	G	C5'-C4'-O4'	5.93	116.21	109.10
3	A1	86	G	N3-C4-N9	5.93	129.56	126.00
3	A1	271	C	N3-C2-O2	-5.93	117.75	121.90
3	A1	440	C	N1-C1'-C2'	-5.93	105.48	112.00
3	A1	585	G	N1-C2-N3	5.93	127.46	123.90
3	A1	644	U	N3-C4-O4	-5.93	115.25	119.40
3	A1	857	C	C6-N1-C2	-5.93	117.93	120.30
3	A1	1194	U	N1-C2-N3	5.93	118.46	114.90
3	A1	1268	G	C2'-C3'-O3'	5.93	123.18	113.70
3	A1	1301	U	C2-N3-C4	-5.93	123.44	127.00
3	A1	1495	U	N3-C4-C5	-5.93	111.04	114.60
17	AR	64	TYR	CG-CD2-CE2	-5.93	116.56	121.30
25	BB	189	G	N3-C4-N9	5.93	129.56	126.00
25	BB	490	C	N3-C2-O2	-5.93	117.75	121.90
25	BB	491	G	N3-C4-C5	-5.93	125.64	128.60
25	BB	769	U	C4-C5-C6	5.93	123.26	119.70
25	BB	1059	G	C5'-C4'-C3'	-5.93	106.52	116.00
25	BB	1506	U	C6-N1-C2	-5.93	117.44	121.00
25	BB	2639	A	C4-C5-C6	-5.93	114.04	117.00
25	BB	2700	A	C5'-C4'-C3'	-5.93	106.52	116.00
25	BB	2809	A	N1-C2-N3	-5.93	126.34	129.30
25	BB	2842	G	N9-C4-C5	-5.93	103.03	105.40
3	A1	175	C	N3-C4-N4	-5.92	113.85	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	183	C	N1-C2-O2	5.92	122.45	118.90
3	A1	417	G	C5-C6-N1	5.92	114.46	111.50
3	A1	701	U	C4'-C3'-C2'	-5.92	96.68	102.60
3	A1	1108	G	C1'-O4'-C4'	-5.92	105.16	109.90
25	BB	45	G	N7-C8-N9	5.92	116.06	113.10
25	BB	90	U	C5-C6-N1	-5.92	119.74	122.70
25	BB	829	A	C2-N3-C4	5.92	113.56	110.60
25	BB	1143	A	O4'-C1'-C2'	-5.92	99.88	105.80
25	BB	1448	G	C8-N9-C4	-5.92	104.03	106.40
25	BB	1668	A	C8-N9-C4	5.92	108.17	105.80
25	BB	1968	G	C5-C6-O6	5.92	132.16	128.60
25	BB	2311	A	C4'-C3'-O3'	5.92	124.85	113.00
25	BB	2589	A	N3-C4-N9	-5.92	122.66	127.40
25	BB	2609	U	O4'-C1'-N1	5.92	112.94	108.20
25	BB	2769	U	O5'-C5'-C4'	5.92	122.96	111.70
1	AE	20	G	N3-C2-N2	-5.92	115.75	119.90
25	BB	1427	A	O4'-C1'-N9	5.92	112.94	108.20
25	BB	1564	C	C5-C4-N4	5.92	124.35	120.20
25	BB	1600	C	N3-C2-O2	-5.92	117.75	121.90
25	BB	1799	G	C3'-C2'-C1'	5.92	106.24	101.50
25	BB	1954	G	C5-C6-N1	5.92	114.46	111.50
3	A1	6	G	C4-N9-C1'	5.92	134.20	126.50
3	A1	1092	A	C4-C5-N7	5.92	113.66	110.70
3	A1	1301	U	N3-C4-C5	5.92	118.15	114.60
24	BA	99	A	C8-N9-C4	5.92	108.17	105.80
25	BB	317	G	C5'-C4'-O4'	-5.92	101.99	109.10
25	BB	912	C	C1'-O4'-C4'	-5.92	105.16	109.90
25	BB	918	A	C4'-C3'-C2'	-5.92	96.68	102.60
25	BB	971	G	P-O5'-C5'	5.92	130.37	120.90
25	BB	1063	G	C2-N3-C4	5.92	114.86	111.90
25	BB	1203	U	P-O3'-C3'	5.92	126.81	119.70
25	BB	1523	U	C1'-O4'-C4'	-5.92	105.16	109.90
25	BB	2134	A	C5'-C4'-O4'	5.92	116.20	109.10
25	BB	2489	U	C2-N3-C4	-5.92	123.45	127.00
25	BB	2595	G	N3-C2-N2	-5.92	115.75	119.90
25	BB	2765	A	C8-N9-C4	5.92	108.17	105.80
55	B6	116	ARG	CD-NE-CZ	5.92	131.89	123.60
1	AE	12	U	C6-N1-C2	-5.92	117.45	121.00
3	A1	668	G	N1-C6-O6	-5.92	116.35	119.90
25	BB	842	U	N3-C2-O2	-5.92	118.06	122.20
25	BB	954	G	C2-N3-C4	5.92	114.86	111.90
25	BB	1325	U	C3'-C2'-C1'	5.92	106.24	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1541	C	N1-C1'-C2'	-5.92	105.49	112.00
25	BB	2327	A	N9-C4-C5	-5.92	103.43	105.80
35	BL	38	TYR	CG-CD2-CE2	-5.92	116.56	121.30
3	A1	631	C	N1-C2-N3	5.92	123.34	119.20
3	A1	757	U	C4-C5-C6	5.92	123.25	119.70
3	A1	822	U	O4'-C1'-N1	-5.92	103.47	108.20
3	A1	949	A	N7-C8-N9	5.92	116.76	113.80
3	A1	1333	A	C8-N9-C4	-5.92	103.43	105.80
25	BB	259	G	C4-C5-N7	5.92	113.17	110.80
25	BB	853	C	C3'-C2'-C1'	5.92	106.23	101.50
25	BB	1028	A	N1-C2-N3	5.92	132.26	129.30
25	BB	1627	G	C6-N1-C2	-5.92	121.55	125.10
25	BB	1976	U	O4'-C4'-C3'	5.92	110.83	106.10
25	BB	2132	U	N3-C4-C5	-5.92	111.05	114.60
25	BB	2282	G	C2'-C3'-O3'	5.92	123.17	113.70
25	BB	2356	U	N1-C2-O2	5.92	126.94	122.80
25	BB	2442	C	N3-C4-N4	-5.92	113.86	118.00
25	BB	2500	U	N3-C4-C5	5.92	118.15	114.60
34	BK	54	VAL	CA-CB-CG1	5.92	119.78	110.90
43	BT	29	VAL	CG1-CB-CG2	-5.92	101.43	110.90
45	BV	21	ARG	CD-NE-CZ	5.92	131.88	123.60
50	B1	183	PHE	CZ-CE2-CD2	5.92	127.20	120.10
2	AM	4	U	O4'-C1'-N1	5.92	112.93	108.20
3	A1	8	A	C5-C6-N6	5.92	128.43	123.70
3	A1	296	U	C3'-C2'-C1'	5.92	106.23	101.50
3	A1	332	G	C5'-C4'-O4'	5.92	116.20	109.10
3	A1	591	U	O4'-C4'-C3'	5.92	110.83	106.10
3	A1	1062	U	C6-N1-C2	-5.92	117.45	121.00
3	A1	1210	C	C6-N1-C2	-5.92	117.93	120.30
3	A1	1261	A	O4'-C1'-N9	5.92	112.93	108.20
3	A1	1272	G	C1'-O4'-C4'	5.92	114.63	109.90
3	A1	1278	G	N7-C8-N9	5.92	116.06	113.10
20	AU	62	GLU	OE1-CD-OE2	-5.92	116.20	123.30
25	BB	339	U	O4'-C1'-N1	5.92	112.93	108.20
25	BB	499	U	N3-C2-O2	-5.92	118.06	122.20
25	BB	617	G	C5-N7-C8	-5.92	101.34	104.30
25	BB	714	U	N1-C2-O2	5.92	126.94	122.80
25	BB	907	G	O4'-C4'-C3'	5.92	110.83	106.10
25	BB	921	C	P-O3'-C3'	5.92	126.80	119.70
25	BB	1229	C	N1-C2-O2	5.92	122.45	118.90
25	BB	1325	U	O4'-C1'-C2'	-5.92	99.88	105.80
25	BB	1803	A	N3-C4-C5	5.92	130.94	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2052	A	N9-C4-C5	-5.92	103.43	105.80
25	BB	2290	G	C4'-C3'-C2'	5.92	108.52	102.60
25	BB	2574	G	C5-C6-O6	-5.92	125.05	128.60
25	BB	2793	C	N3-C2-O2	-5.92	117.76	121.90
30	BG	48	VAL	CG1-CB-CG2	-5.92	101.44	110.90
36	BM	79	ASP	CB-CG-OD1	5.92	123.62	118.30
1	AP	3	G	C5'-C4'-C3'	-5.92	106.54	116.00
3	A1	187	G	N1-C2-N3	5.92	127.45	123.90
3	A1	284	C	C5'-C4'-O4'	5.92	116.20	109.10
3	A1	419	C	C3'-C2'-C1'	5.92	106.23	101.50
3	A1	1043	G	C6-N1-C2	-5.92	121.55	125.10
3	A1	1436	U	N1-C2-O2	5.92	126.94	122.80
3	A1	1480	A	C5'-C4'-C3'	-5.92	106.54	116.00
25	BB	578	G	N1-C6-O6	5.92	123.45	119.90
25	BB	1633	G	C6-C5-N7	5.92	133.95	130.40
1	AA	22	G	N9-C1'-C2'	-5.91	105.50	112.00
1	AA	75	C	O5'-P-OP1	5.91	117.80	110.70
1	AE	31	A	C5'-C4'-O4'	5.91	116.20	109.10
3	A1	484	G	C4-C5-N7	5.91	113.17	110.80
3	A1	1375	A	C5-C6-N6	5.91	128.43	123.70
3	A1	1385	G	O4'-C1'-C2'	5.91	112.92	107.60
23	AX	31	ARG	NE-CZ-NH1	5.91	123.26	120.30
24	BA	107	G	N7-C8-N9	5.91	116.06	113.10
25	BB	13	A	C4-C5-N7	5.91	113.66	110.70
25	BB	36	G	N3-C4-N9	5.91	129.55	126.00
25	BB	146	A	N1-C2-N3	-5.91	126.34	129.30
25	BB	340	A	C4-C5-N7	-5.91	107.74	110.70
25	BB	653	U	P-O3'-C3'	5.91	126.80	119.70
25	BB	1391	U	C3'-C2'-C1'	-5.91	96.77	101.50
25	BB	1436	G	C5-N7-C8	-5.91	101.34	104.30
25	BB	1573	G	N3-C4-C5	-5.91	125.64	128.60
25	BB	1661	G	C5-C6-N1	5.91	114.46	111.50
25	BB	1706	C	C2-N3-C4	-5.91	116.94	119.90
25	BB	2648	G	N3-C4-C5	-5.91	125.64	128.60
35	BL	77	ASP	CB-CG-OD1	5.91	123.62	118.30
50	B1	162	ARG	NH1-CZ-NH2	-5.91	112.89	119.40
3	A1	239	U	N3-C2-O2	-5.91	118.06	122.20
3	A1	534	U	O4'-C1'-N1	5.91	112.93	108.20
3	A1	732	C	N3-C4-N4	-5.91	113.86	118.00
3	A1	1235	U	C4'-C3'-C2'	5.91	108.51	102.60
25	BB	95	A	P-O3'-C3'	5.91	126.79	119.70
25	BB	221	A	C6-C5-N7	5.91	136.44	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	439	A	C5'-C4'-O4'	5.91	116.19	109.10
25	BB	655	A	P-O3'-C3'	5.91	126.79	119.70
25	BB	1271	G	N3-C4-C5	5.91	131.56	128.60
25	BB	2120	G	C5'-C4'-C3'	-5.91	106.54	116.00
1	AP	63	C	N3-C2-O2	-5.91	117.76	121.90
1	AE	49	C	N1-C2-N3	5.91	123.34	119.20
3	A1	64	G	C5'-C4'-C3'	-5.91	106.54	116.00
3	A1	570	G	N9-C4-C5	5.91	107.76	105.40
3	A1	985	C	C3'-C2'-C1'	5.91	106.23	101.50
3	A1	1010	U	O5'-P-OP1	-5.91	100.38	105.70
3	A1	1336	C	C4'-C3'-C2'	5.91	108.51	102.60
25	BB	204	A	N3-C4-N9	5.91	132.13	127.40
25	BB	235	U	C2-N3-C4	-5.91	123.45	127.00
25	BB	356	G	C1'-O4'-C4'	-5.91	105.17	109.90
25	BB	581	C	O4'-C4'-C3'	5.91	110.83	106.10
25	BB	584	C	C2-N3-C4	-5.91	116.94	119.90
25	BB	712	G	O4'-C1'-C2'	5.91	112.92	107.60
25	BB	861	A	C2'-C3'-O3'	5.91	123.16	113.70
25	BB	1106	G	C3'-C2'-C1'	5.91	106.23	101.50
25	BB	2234	G	N1-C2-N2	-5.91	110.88	116.20
25	BB	2409	G	C4-C5-C6	-5.91	115.25	118.80
25	BB	2869	G	P-O3'-C3'	5.91	126.79	119.70
1	AA	38	A	C1'-O4'-C4'	5.91	114.63	109.90
1	AE	7	U	N3-C4-O4	5.91	123.53	119.40
3	A1	405	U	O3'-P-O5'	5.91	115.23	104.00
3	A1	1110	A	C5-C6-N1	5.91	120.65	117.70
3	A1	1233	G	C2-N3-C4	-5.91	108.95	111.90
3	A1	1384	C	C4-C5-C6	5.91	120.35	117.40
19	AT	5	GLU	OE1-CD-OE2	-5.91	116.21	123.30
24	BA	89	U	C5'-C4'-O4'	5.91	116.19	109.10
25	BB	73	A	C4-C5-C6	-5.91	114.05	117.00
25	BB	242	G	O4'-C4'-C3'	5.91	110.83	106.10
25	BB	698	C	C4'-C3'-C2'	-5.91	96.69	102.60
25	BB	1528	A	O4'-C4'-C3'	5.91	110.83	106.10
25	BB	1743	G	O4'-C1'-N9	5.91	112.93	108.20
25	BB	1925	C	C1'-O4'-C4'	-5.91	105.17	109.90
25	BB	1981	A	C4-C5-C6	-5.91	114.05	117.00
25	BB	2318	G	O4'-C4'-C3'	-5.91	98.09	104.00
25	BB	2386	A	C5-C6-N1	5.91	120.65	117.70
25	BB	2451	A	C8-N9-C4	-5.91	103.44	105.80
25	BB	2700	A	C5-N7-C8	-5.91	100.95	103.90
1	AP	20	G	C3'-C2'-C1'	5.91	106.22	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	403	C	N3-C4-C5	5.91	124.26	121.90
3	A1	438	U	C6-N1-C2	-5.91	117.46	121.00
3	A1	454	G	C5'-C4'-O4'	5.91	116.19	109.10
3	A1	1125	U	C5'-C4'-O4'	5.91	116.19	109.10
24	BA	101	A	C5'-C4'-C3'	-5.91	106.55	116.00
25	BB	94	A	O4'-C1'-N9	5.91	112.93	108.20
25	BB	226	A	C5'-C4'-O4'	5.91	116.19	109.10
25	BB	579	G	C4-C5-C6	-5.91	115.26	118.80
25	BB	687	C	N3-C4-N4	-5.91	113.86	118.00
25	BB	937	C	N3-C4-C5	5.91	124.26	121.90
25	BB	1182	G	O4'-C1'-N9	5.91	112.92	108.20
3	A1	116	A	C5'-C4'-O4'	5.91	116.19	109.10
3	A1	444	G	O4'-C4'-C3'	5.91	110.83	106.10
3	A1	574	A	C2-N3-C4	5.91	113.55	110.60
3	A1	935	A	C5'-C4'-C3'	-5.91	106.55	116.00
3	A1	963	G	N3-C4-N9	-5.91	122.46	126.00
3	A1	1281	C	N3-C2-O2	-5.91	117.77	121.90
25	BB	450	G	C8-N9-C4	-5.91	104.04	106.40
25	BB	693	A	C4'-C3'-C2'	-5.91	96.69	102.60
25	BB	1547	C	C3'-C2'-C1'	5.91	106.22	101.50
25	BB	1580	A	C6-C5-N7	5.91	136.43	132.30
25	BB	1672	A	C8-N9-C4	5.91	108.16	105.80
25	BB	1849	G	C4-C5-C6	-5.91	115.26	118.80
25	BB	1870	C	C1'-O4'-C4'	-5.91	105.18	109.90
25	BB	2071	A	C5-C6-N1	5.91	120.65	117.70
33	BJ	109	VAL	CB-CA-C	-5.91	100.18	111.40
54	B5	114	ALA	N-CA-CB	-5.91	101.83	110.10
3	A1	144	G	O4'-C1'-N9	5.90	112.92	108.20
3	A1	560	A	N3-C4-C5	-5.90	122.67	126.80
3	A1	1002	G	C5-C6-O6	-5.90	125.06	128.60
3	A1	1318	A	O4'-C1'-N9	5.90	112.92	108.20
25	BB	306	U	O4'-C4'-C3'	-5.90	98.10	104.00
25	BB	882	G	C6-C5-N7	5.90	133.94	130.40
25	BB	1005	C	C4-C5-C6	5.90	120.35	117.40
25	BB	1470	A	C4-C5-C6	-5.90	114.05	117.00
25	BB	2166	U	C1'-O4'-C4'	5.90	114.62	109.90
1	AE	47	U	C5-C6-N1	-5.90	119.75	122.70
3	A1	76	G	C5-C6-O6	-5.90	125.06	128.60
3	A1	88	U	N1-C2-O2	-5.90	118.67	122.80
3	A1	361	G	N3-C4-N9	5.90	129.54	126.00
3	A1	677	U	N3-C4-C5	-5.90	111.06	114.60
3	A1	882	C	C5'-C4'-O4'	5.90	116.18	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	990	C	C5-C6-N1	-5.90	118.05	121.00
3	A1	1237	C	N1-C2-N3	5.90	123.33	119.20
3	A1	1300	G	C8-N9-C4	-5.90	104.04	106.40
25	BB	885	C	N1-C2-N3	5.90	123.33	119.20
25	BB	999	U	C2'-C3'-O3'	5.90	123.14	113.70
25	BB	1143	A	C4-C5-N7	5.90	113.65	110.70
25	BB	1146	C	N3-C4-C5	5.90	124.26	121.90
25	BB	1458	U	C5-C6-N1	-5.90	119.75	122.70
25	BB	1684	G	C4-C5-N7	-5.90	108.44	110.80
25	BB	1808	A	N9-C4-C5	-5.90	103.44	105.80
25	BB	2381	A	C4-C5-C6	-5.90	114.05	117.00
25	BB	2782	G	N1-C2-N2	-5.90	110.89	116.20
25	BB	2883	A	C4-C5-C6	-5.90	114.05	117.00
43	BT	19	ASP	CB-CG-OD1	5.90	123.61	118.30
1	AP	23	A	O4'-C1'-N9	5.90	112.92	108.20
1	AE	23	A	C6-C5-N7	5.90	136.43	132.30
3	A1	126	G	C5-C6-N1	5.90	114.45	111.50
3	A1	470	C	C5'-C4'-O4'	5.90	116.18	109.10
3	A1	664	G	N1-C6-O6	-5.90	116.36	119.90
3	A1	838	G	C1'-O4'-C4'	-5.90	105.18	109.90
3	A1	1379	G	N3-C2-N2	-5.90	115.77	119.90
3	A1	1393	U	O3'-P-O5'	-5.90	92.79	104.00
25	BB	74	A	O4'-C1'-N9	5.90	112.92	108.20
25	BB	280	U	C5-C6-N1	-5.90	119.75	122.70
25	BB	734	A	O4'-C1'-N9	-5.90	103.48	108.20
25	BB	794	A	C4'-C3'-C2'	-5.90	96.70	102.60
25	BB	934	U	O4'-C1'-N1	5.90	112.92	108.20
25	BB	1448	G	C2-N3-C4	-5.90	108.95	111.90
25	BB	1710	G	N1-C2-N3	5.90	127.44	123.90
25	BB	1756	G	N9-C4-C5	5.90	107.76	105.40
25	BB	1994	C	O4'-C1'-N1	5.90	112.92	108.20
25	BB	2234	G	N9-C4-C5	5.90	107.76	105.40
25	BB	2301	C	O4'-C4'-C3'	5.90	110.82	106.10
25	BB	2429	G	C1'-O4'-C4'	5.90	114.62	109.90
50	B1	162	ARG	NE-CZ-NH2	5.90	123.25	120.30
1	AA	8	U	C2-N3-C4	5.90	130.54	127.00
3	A1	264	C	O4'-C4'-C3'	-5.90	98.10	104.00
3	A1	1002	G	C6-C5-N7	5.90	133.94	130.40
25	BB	978	G	C8-N9-C4	-5.90	104.04	106.40
25	BB	1609	A	N1-C2-N3	-5.90	126.35	129.30
25	BB	1731	G	C6-C5-N7	-5.90	126.86	130.40
25	BB	1763	G	N3-C2-N2	-5.90	115.77	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1937	A	C4-C5-N7	-5.90	107.75	110.70
25	BB	2105	U	O4'-C1'-N1	5.90	112.92	108.20
25	BB	2845	U	N3-C2-O2	-5.90	118.07	122.20
3	A1	106	C	C4'-C3'-C2'	-5.90	96.70	102.60
3	A1	330	C	N3-C4-C5	-5.90	119.54	121.90
3	A1	545	C	C5'-C4'-C3'	-5.90	106.56	116.00
3	A1	997	U	N3-C4-C5	5.90	118.14	114.60
24	BA	41	G	C5-C6-N1	5.90	114.45	111.50
24	BA	81	G	N1-C6-O6	-5.90	116.36	119.90
25	BB	413	C	C6-N1-C2	-5.90	117.94	120.30
25	BB	683	U	O4'-C1'-C2'	-5.90	99.90	105.80
25	BB	996	A	C5'-C4'-O4'	5.90	116.18	109.10
25	BB	1130	U	C6-N1-C2	-5.90	117.46	121.00
25	BB	1307	A	N7-C8-N9	5.90	116.75	113.80
25	BB	1311	G	C5'-C4'-O4'	5.90	116.18	109.10
25	BB	1363	C	C4-C5-C6	-5.90	114.45	117.40
25	BB	1646	C	C5'-C4'-O4'	5.90	116.18	109.10
25	BB	2442	C	C5-C6-N1	-5.90	118.05	121.00
1	AE	57	G	N1-C2-N2	5.90	121.51	116.20
25	BB	397	U	C5-C6-N1	-5.90	119.75	122.70
1	AP	47	U	O4'-C4'-C3'	5.89	110.82	106.10
3	A1	98	A	C8-N9-C4	-5.89	103.44	105.80
3	A1	107	G	P-O3'-C3'	5.89	126.77	119.70
3	A1	160	A	C4-C5-C6	-5.89	114.05	117.00
3	A1	184	G	N9-C4-C5	5.89	107.76	105.40
3	A1	758	C	C2-N3-C4	-5.89	116.95	119.90
3	A1	997	U	C1'-O4'-C4'	5.89	114.61	109.90
3	A1	1153	G	C5-C6-O6	-5.89	125.06	128.60
3	A1	1233	G	C4'-C3'-C2'	-5.89	96.71	102.60
3	A1	1312	G	C1'-O4'-C4'	5.89	114.62	109.90
3	A1	1370	G	C4-C5-C6	-5.89	115.26	118.80
3	A1	1407	C	O4'-C1'-C2'	-5.89	99.91	105.80
24	BA	74	U	C5-C4-O4	-5.89	122.36	125.90
25	BB	20	C	O4'-C4'-C3'	5.89	110.82	106.10
25	BB	65	U	N1-C1'-C2'	5.89	121.66	114.00
25	BB	309	A	C5-C6-N1	5.89	120.65	117.70
25	BB	311	A	N1-C2-N3	-5.89	126.35	129.30
25	BB	651	G	C3'-C2'-C1'	-5.89	96.78	101.50
25	BB	685	A	C6-N1-C2	-5.89	115.06	118.60
25	BB	853	C	C2-N3-C4	-5.89	116.95	119.90
25	BB	1505	A	C5-C6-N6	5.89	128.41	123.70
25	BB	1656	C	C1'-O4'-C4'	-5.89	105.19	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1876	A	O4'-C1'-N9	5.89	112.92	108.20
25	BB	2365	G	C6-N1-C2	5.89	128.64	125.10
25	BB	2555	U	C5-C4-O4	5.89	129.44	125.90
25	BB	2624	G	N9-C1'-C2'	-5.89	105.52	112.00
25	BB	2746	U	O4'-C4'-C3'	5.89	110.82	106.10
25	BB	2903	U	C5'-C4'-O4'	-5.89	102.03	109.10
3	A1	238	A	C4-C5-C6	-5.89	114.05	117.00
3	A1	247	G	C6-N1-C2	-5.89	121.56	125.10
3	A1	481	G	N1-C2-N3	5.89	127.44	123.90
3	A1	527	G	N9-C1'-C2'	-5.89	105.52	112.00
3	A1	1024	G	N9-C4-C5	-5.89	103.04	105.40
3	A1	1108	G	C2-N3-C4	5.89	114.85	111.90
3	A1	1250	A	C2-N3-C4	-5.89	107.65	110.60
19	AT	44	ARG	CD-NE-CZ	5.89	131.85	123.60
25	BB	87	U	C3'-C2'-C1'	5.89	106.21	101.50
25	BB	371	A	N1-C6-N6	-5.89	115.06	118.60
25	BB	896	A	C4-C5-C6	-5.89	114.05	117.00
25	BB	910	A	N1-C2-N3	-5.89	126.35	129.30
25	BB	1082	U	C6-N1-C2	-5.89	117.46	121.00
25	BB	1163	G	C5'-C4'-O4'	5.89	116.17	109.10
25	BB	1462	C	O4'-C1'-C2'	-5.89	99.91	105.80
25	BB	1821	A	O4'-C4'-C3'	5.89	110.81	106.10
25	BB	1944	U	C5-C6-N1	-5.89	119.75	122.70
25	BB	2134	A	C3'-C2'-C1'	5.89	106.21	101.50
25	BB	2199	A	N7-C8-N9	5.89	116.75	113.80
25	BB	2332	C	C1'-O4'-C4'	-5.89	105.19	109.90
25	BB	2448	A	C5'-C4'-C3'	-5.89	106.57	116.00
25	BB	2470	G	C5-N7-C8	-5.89	101.35	104.30
25	BB	2527	C	C2-N3-C4	-5.89	116.95	119.90
25	BB	2621	G	C4-C5-C6	5.89	122.33	118.80
25	BB	2801	G	N1-C2-N2	-5.89	110.90	116.20
25	BB	2830	C	C2-N3-C4	-5.89	116.95	119.90
3	A1	1028	C	C5-C6-N1	-5.89	118.06	121.00
3	A1	1396	A	O4'-C4'-C3'	5.89	110.81	106.10
25	BB	9	G	N3-C4-N9	5.89	129.53	126.00
25	BB	268	C	C5-C6-N1	-5.89	118.06	121.00
25	BB	835	C	C1'-O4'-C4'	-5.89	105.19	109.90
25	BB	1200	C	C4-C5-C6	5.89	120.35	117.40
25	BB	2092	U	C1'-O4'-C4'	-5.89	105.19	109.90
25	BB	2711	A	C1'-O4'-C4'	-5.89	105.19	109.90
25	BB	2867	G	C3'-C2'-C1'	-5.89	96.79	101.50
1	AE	7	U	C5'-C4'-C3'	-5.89	106.58	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	402	G	O4'-C1'-N9	5.89	112.91	108.20
3	A1	794	A	C6-N1-C2	-5.89	115.07	118.60
3	A1	1051	C	O4'-C1'-C2'	-5.89	99.91	105.80
25	BB	529	A	C5-N7-C8	5.89	106.84	103.90
25	BB	781	A	C5-C6-N6	5.89	128.41	123.70
25	BB	1667	G	C5-C6-N1	5.89	114.44	111.50
25	BB	1669	A	C2-N3-C4	5.89	113.55	110.60
25	BB	1943	U	N3-C4-O4	5.89	123.52	119.40
25	BB	2044	C	N3-C4-N4	-5.89	113.88	118.00
25	BB	2410	G	C6-N1-C2	-5.89	121.57	125.10
26	BC	11	GLU	OE1-CD-OE2	-5.89	116.23	123.30
1	AE	25	C	N3-C4-N4	-5.89	113.88	118.00
3	A1	453	G	C6-C5-N7	5.89	133.93	130.40
3	A1	967	C	N3-C2-O2	-5.89	117.78	121.90
3	A1	1417	G	C8-N9-C4	-5.89	104.05	106.40
25	BB	235	U	P-O3'-C3'	5.89	126.77	119.70
25	BB	569	U	N1-C1'-C2'	-5.89	105.52	112.00
25	BB	2255	G	C6-C5-N7	5.89	133.93	130.40
25	BB	2292	U	C4-C5-C6	5.89	123.23	119.70
25	BB	2555	U	O5'-P-OP1	-5.89	100.40	105.70
25	BB	2638	G	N7-C8-N9	5.89	116.04	113.10
25	BB	2656	U	N3-C4-C5	-5.89	111.07	114.60
3	A1	241	G	C4-C5-C6	-5.89	115.27	118.80
3	A1	413	G	C2-N3-C4	5.89	114.84	111.90
3	A1	752	G	P-O3'-C3'	5.89	126.77	119.70
3	A1	775	G	C3'-C2'-C1'	-5.89	96.79	101.50
20	AU	123	LEU	CB-CG-CD2	-5.89	100.99	111.00
25	BB	125	A	C5-N7-C8	-5.89	100.96	103.90
25	BB	172	A	C1'-O4'-C4'	-5.89	105.19	109.90
25	BB	308	G	C1'-O4'-C4'	-5.89	105.19	109.90
25	BB	651	G	N3-C4-C5	-5.89	125.66	128.60
25	BB	693	A	C5-N7-C8	-5.89	100.96	103.90
25	BB	1023	U	C2-N1-C1'	5.89	124.77	117.70
25	BB	2332	C	C4'-C3'-C2'	-5.89	96.71	102.60
25	BB	2626	C	N3-C4-N4	-5.89	113.88	118.00
38	BO	95	PHE	CB-CA-C	5.89	122.17	110.40
54	B5	45	THR	N-CA-CB	5.89	121.49	110.30
1	AE	4	G	C4'-C3'-C2'	-5.88	96.72	102.60
2	AM	2	U	C3'-C2'-C1'	5.88	106.21	101.50
3	A1	282	A	C6-N1-C2	-5.88	115.07	118.60
3	A1	364	A	N3-C4-N9	-5.88	122.69	127.40
3	A1	499	A	C5'-C4'-O4'	5.88	116.16	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	512	U	C1'-O4'-C4'	-5.88	105.19	109.90
3	A1	548	G	N3-C2-N2	-5.88	115.78	119.90
3	A1	889	A	OP1-P-OP2	-5.88	110.77	119.60
22	AW	74	GLN	C-N-CA	5.88	136.41	121.70
25	BB	71	A	C2-N3-C4	5.88	113.54	110.60
25	BB	484	C	C2'-C3'-O3'	5.88	123.11	113.70
25	BB	1452	G	N3-C2-N2	-5.88	115.78	119.90
25	BB	1657	U	O3'-P-O5'	-5.88	92.82	104.00
25	BB	2174	C	C5-C4-N4	5.88	124.32	120.20
25	BB	2433	A	C8-N9-C4	5.88	108.15	105.80
25	BB	2754	U	C4-C5-C6	5.88	123.23	119.70
25	BB	2781	A	P-O3'-C3'	5.88	126.76	119.70
25	BB	2801	G	N7-C8-N9	5.88	116.04	113.10
30	BG	112	TYR	CB-CG-CD2	-5.88	117.47	121.00
3	A1	196	A	C2-N3-C4	5.88	113.54	110.60
3	A1	467	U	C5-C4-O4	5.88	129.43	125.90
3	A1	1245	C	N1-C2-N3	5.88	123.32	119.20
24	BA	4	C	C3'-C2'-C1'	-5.88	96.79	101.50
25	BB	345	A	C6-C5-N7	5.88	136.42	132.30
25	BB	351	C	O4'-C1'-C2'	5.88	112.89	107.60
25	BB	386	G	N1-C6-O6	-5.88	116.37	119.90
25	BB	539	G	N9-C4-C5	5.88	107.75	105.40
25	BB	959	A	N1-C2-N3	-5.88	126.36	129.30
25	BB	1246	A	P-O3'-C3'	5.88	126.76	119.70
25	BB	2214	C	N3-C4-N4	-5.88	113.88	118.00
25	BB	2592	G	N3-C4-N9	5.88	129.53	126.00
1	AP	33	U	O4'-C1'-C2'	5.88	112.89	107.60
3	A1	622	A	C4-C5-N7	-5.88	107.76	110.70
3	A1	915	A	C4'-C3'-C2'	-5.88	96.72	102.60
3	A1	1037	C	N1-C2-N3	5.88	123.32	119.20
3	A1	1060	U	C5-C4-O4	-5.88	122.37	125.90
15	AO	142	ARG	NE-CZ-NH2	-5.88	117.36	120.30
24	BA	98	G	C6-N1-C2	-5.88	121.57	125.10
25	BB	7	G	C4'-C3'-C2'	-5.88	96.72	102.60
25	BB	214	G	N1-C2-N2	-5.88	110.91	116.20
25	BB	468	G	C6-N1-C2	-5.88	121.57	125.10
25	BB	735	A	N7-C8-N9	5.88	116.74	113.80
25	BB	1911	U	C3'-C2'-C1'	-5.88	96.80	101.50
25	BB	1968	G	C5-C6-N1	5.88	114.44	111.50
25	BB	1973	G	C6-C5-N7	5.88	133.93	130.40
25	BB	2382	G	C6-N1-C2	-5.88	121.57	125.10
25	BB	2541	A	P-O3'-C3'	5.88	126.76	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2865	U	N3-C4-O4	-5.88	115.28	119.40
42	BS	56	ARG	CD-NE-CZ	5.88	131.83	123.60
55	B6	137	PRO	N-CD-CG	5.88	112.02	103.20
25	BB	384	A	C3'-C2'-C1'	5.88	106.20	101.50
25	BB	653	U	N1-C2-N3	5.88	118.43	114.90
25	BB	882	G	C2-N3-C4	5.88	114.84	111.90
25	BB	1522	A	C8-N9-C4	-5.88	103.45	105.80
25	BB	2591	C	C4'-C3'-C2'	-5.88	96.72	102.60
25	BB	2859	G	N1-C2-N3	5.88	127.43	123.90
3	A1	798	U	C6-N1-C2	-5.88	117.47	121.00
3	A1	1423	G	C8-N9-C4	-5.88	104.05	106.40
7	AF	71	GLU	OE1-CD-OE2	-5.88	116.25	123.30
25	BB	4	U	N3-C2-O2	-5.88	118.08	122.20
25	BB	442	G	C6-N1-C2	-5.88	121.57	125.10
25	BB	762	U	C2-N1-C1'	5.88	124.75	117.70
25	BB	1252	G	C4-C5-C6	-5.88	115.27	118.80
25	BB	1298	C	O4'-C1'-N1	5.88	112.90	108.20
25	BB	1347	A	N9-C4-C5	-5.88	103.45	105.80
25	BB	1573	G	C5-N7-C8	-5.88	101.36	104.30
25	BB	2008	C	N1-C2-O2	5.88	122.43	118.90
25	BB	2107	G	C1'-O4'-C4'	-5.88	105.20	109.90
25	BB	2251	G	C5-C6-O6	5.88	132.13	128.60
25	BB	2455	G	C5-N7-C8	-5.88	101.36	104.30
25	BB	2666	C	C5'-C4'-C3'	-5.88	106.60	116.00
25	BB	2697	G	N3-C4-C5	-5.88	125.66	128.60
25	BB	2806	C	C6-N1-C2	-5.88	117.95	120.30
45	BV	32	ALA	CA-C-O	-5.88	107.76	120.10
50	B1	26	ALA	CB-CA-C	5.88	118.92	110.10
1	AE	64	A	C5'-C4'-O4'	5.88	116.15	109.10
2	AM	6	U	C3'-C2'-C1'	5.88	106.20	101.50
3	A1	438	U	C5-C4-O4	5.88	129.43	125.90
3	A1	575	G	C3'-C2'-C1'	5.88	106.20	101.50
3	A1	803	G	N3-C2-N2	-5.88	115.79	119.90
24	BA	47	C	C6-N1-C2	5.88	122.65	120.30
24	BA	48	U	C3'-C2'-C1'	5.88	106.20	101.50
25	BB	293	U	C4-C5-C6	5.88	123.23	119.70
25	BB	407	G	C6-C5-N7	5.88	133.93	130.40
25	BB	574	A	O4'-C1'-C2'	-5.88	99.92	105.80
25	BB	1384	A	N3-C4-C5	5.88	130.91	126.80
25	BB	2080	A	N7-C8-N9	-5.88	110.86	113.80
25	BB	2081	U	N3-C2-O2	-5.88	118.09	122.20
25	BB	2577	A	C5-N7-C8	-5.88	100.96	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2832	U	N3-C4-O4	-5.88	115.29	119.40
3	A1	954	G	N1-C6-O6	-5.88	116.38	119.90
3	A1	1323	G	N3-C4-N9	5.88	129.53	126.00
3	A1	1368	A	C5-N7-C8	5.88	106.84	103.90
3	A1	1475	G	C5-N7-C8	-5.88	101.36	104.30
25	BB	845	A	C5-C6-N6	5.88	128.40	123.70
25	BB	1669	A	C5-N7-C8	-5.88	100.96	103.90
25	BB	1845	G	N1-C6-O6	-5.88	116.38	119.90
25	BB	2206	C	C6-N1-C2	-5.88	117.95	120.30
3	A1	1065	U	N1-C1'-C2'	5.87	121.64	114.00
3	A1	1214	C	N3-C2-O2	-5.87	117.79	121.90
3	A1	1427	C	C1'-O4'-C4'	-5.87	105.20	109.90
20	AU	2	ARG	NE-CZ-NH2	-5.87	117.36	120.30
24	BA	21	G	C1'-O4'-C4'	-5.87	105.20	109.90
24	BA	98	G	N1-C2-N3	5.87	127.42	123.90
25	BB	64	A	C6-C5-N7	5.87	136.41	132.30
25	BB	146	A	N3-C4-C5	-5.87	122.69	126.80
25	BB	157	C	C2-N3-C4	-5.87	116.96	119.90
25	BB	359	G	C2-N3-C4	5.87	114.84	111.90
25	BB	1157	G	C5-C6-N1	5.87	114.44	111.50
25	BB	1365	A	O3'-P-O5'	-5.87	92.84	104.00
25	BB	1687	G	N3-C2-N2	-5.87	115.79	119.90
25	BB	1846	G	N9-C4-C5	5.87	107.75	105.40
25	BB	2148	G	C5-C6-N1	5.87	114.44	111.50
25	BB	2290	G	C4-C5-N7	5.87	113.15	110.80
25	BB	2310	C	C5'-C4'-O4'	5.87	116.15	109.10
1	AA	37	G	N3-C4-C5	-5.87	125.66	128.60
3	A1	40	C	C6-N1-C2	5.87	122.65	120.30
3	A1	365	U	C4-C5-C6	5.87	123.22	119.70
3	A1	880	C	N3-C4-C5	5.87	124.25	121.90
3	A1	906	A	O4'-C1'-N9	5.87	112.90	108.20
3	A1	1093	A	N1-C2-N3	-5.87	126.36	129.30
3	A1	1429	A	C5'-C4'-O4'	5.87	116.14	109.10
3	A1	1491	G	C1'-O4'-C4'	-5.87	105.20	109.90
25	BB	251	A	N9-C4-C5	-5.87	103.45	105.80
25	BB	270	A	C1'-O4'-C4'	-5.87	105.20	109.90
25	BB	517	C	N3-C4-C5	5.87	124.25	121.90
25	BB	694	U	P-O3'-C3'	5.87	126.75	119.70
25	BB	895	U	N3-C2-O2	-5.87	118.09	122.20
25	BB	980	A	C1'-O4'-C4'	5.87	114.60	109.90
25	BB	1415	U	N1-C1'-C2'	-5.87	105.54	112.00
25	BB	1927	A	O4'-C4'-C3'	5.87	110.80	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2156	G	N3-C4-N9	5.87	129.52	126.00
25	BB	2375	G	C5-C6-N1	5.87	114.44	111.50
3	A1	154	U	N3-C2-O2	-5.87	118.09	122.20
3	A1	228	A	C4-C5-N7	5.87	113.64	110.70
3	A1	802	A	C2-N3-C4	-5.87	107.67	110.60
3	A1	1253	G	N9-C4-C5	5.87	107.75	105.40
3	A1	1286	U	O4'-C1'-N1	-5.87	103.50	108.20
3	A1	1366	C	O3'-P-O5'	-5.87	92.85	104.00
25	BB	1471	G	C5-C6-O6	-5.87	125.08	128.60
25	BB	2201	G	C5-C6-N1	-5.87	108.56	111.50
25	BB	2397	G	C3'-C2'-C1'	5.87	106.20	101.50
25	BB	2885	G	C6-C5-N7	5.87	133.92	130.40
1	AE	53	G	N7-C8-N9	5.87	116.03	113.10
3	A1	325	A	C4'-C3'-C2'	-5.87	96.73	102.60
3	A1	424	G	N1-C2-N3	5.87	127.42	123.90
3	A1	505	G	N1-C6-O6	-5.87	116.38	119.90
3	A1	543	U	C5-C6-N1	5.87	125.63	122.70
3	A1	681	A	C6-C5-N7	5.87	136.41	132.30
3	A1	1130	A	C5-C6-N1	5.87	120.63	117.70
3	A1	1489	G	C5-C6-N1	5.87	114.44	111.50
24	BA	83	G	N7-C8-N9	-5.87	110.17	113.10
25	BB	25	U	C5-C4-O4	-5.87	122.38	125.90
25	BB	181	A	C4-C5-C6	-5.87	114.07	117.00
25	BB	201	C	O3'-P-O5'	5.87	115.15	104.00
25	BB	241	A	C6-N1-C2	5.87	122.12	118.60
25	BB	893	C	C2-N3-C4	-5.87	116.97	119.90
25	BB	1448	G	N1-C6-O6	-5.87	116.38	119.90
25	BB	1503	A	O5'-P-OP1	-5.87	100.42	105.70
25	BB	2012	G	N3-C4-C5	-5.87	125.67	128.60
25	BB	2323	G	N3-C2-N2	-5.87	115.79	119.90
25	BB	2616	C	C4'-C3'-C2'	-5.87	96.73	102.60
25	BB	2718	G	C1'-O4'-C4'	-5.87	105.21	109.90
25	BB	2736	A	O4'-C1'-N9	5.87	112.89	108.20
25	BB	2755	C	O4'-C1'-N1	5.87	112.89	108.20
36	BM	62	VAL	CG1-CB-CG2	-5.87	101.51	110.90
3	A1	994	A	C5-C6-N1	5.87	120.63	117.70
3	A1	1069	C	C5-C4-N4	-5.87	116.09	120.20
3	A1	1158	C	N1-C1'-C2'	5.87	121.63	114.00
3	A1	1160	G	C4'-C3'-C2'	-5.87	96.73	102.60
25	BB	98	G	C3'-C2'-C1'	5.87	106.19	101.50
25	BB	243	U	C3'-C2'-C1'	5.87	106.19	101.50
25	BB	424	G	C5-C6-O6	5.87	132.12	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1906	G	C6-N1-C2	-5.87	121.58	125.10
25	BB	2096	C	C4-C5-C6	5.87	120.33	117.40
50	B1	191	ASP	CB-CG-OD2	-5.87	113.02	118.30
1	AA	73	A	C6-C5-N7	5.87	136.41	132.30
3	A1	160	A	N3-C4-C5	-5.87	122.69	126.80
3	A1	403	C	C1'-O4'-C4'	-5.87	105.21	109.90
3	A1	678	U	N1-C2-O2	-5.87	118.69	122.80
3	A1	916	U	P-O3'-C3'	-5.87	112.66	119.70
3	A1	954	G	C6-C5-N7	5.87	133.92	130.40
3	A1	1321	U	C4'-C3'-C2'	-5.87	96.73	102.60
3	A1	1488	G	N3-C2-N2	-5.87	115.80	119.90
25	BB	6	A	C5'-C4'-C3'	-5.87	106.61	116.00
25	BB	21	A	C8-N9-C4	-5.87	103.45	105.80
25	BB	657	U	O4'-C4'-C3'	5.87	110.79	106.10
25	BB	1092	C	C5'-C4'-O4'	5.87	116.14	109.10
25	BB	1326	U	N3-C4-O4	5.87	123.51	119.40
25	BB	1430	G	N3-C4-N9	-5.87	122.48	126.00
25	BB	1685	C	O4'-C4'-C3'	5.87	110.79	106.10
25	BB	1829	A	O4'-C1'-N9	5.87	112.89	108.20
25	BB	1890	A	C6-C5-N7	5.87	136.41	132.30
25	BB	2245	U	N1-C2-O2	5.87	126.91	122.80
25	BB	2454	G	N3-C4-C5	-5.87	125.67	128.60
25	BB	2492	U	N1-C2-O2	5.87	126.91	122.80
25	BB	2557	G	N3-C4-C5	5.87	131.53	128.60
25	BB	2617	U	C1'-O4'-C4'	-5.87	105.21	109.90
25	BB	2878	U	C2'-C3'-O3'	5.87	123.09	113.70
25	BB	2903	U	C1'-O4'-C4'	-5.87	105.21	109.90
26	BC	78	GLN	N-CA-CB	-5.87	100.04	110.60
48	BY	50	VAL	CA-CB-CG1	5.87	119.70	110.90
3	A1	299	G	N7-C8-N9	5.86	116.03	113.10
3	A1	490	C	N1-C2-N3	5.86	123.31	119.20
3	A1	1309	G	C1'-O4'-C4'	5.86	114.59	109.90
25	BB	418	C	O4'-C4'-C3'	-5.86	98.14	104.00
25	BB	427	U	N1-C2-O2	5.86	126.91	122.80
25	BB	729	G	C2'-C3'-O3'	5.86	123.08	113.70
25	BB	730	A	C5'-C4'-C3'	-5.86	106.62	116.00
25	BB	978	G	C5-N7-C8	-5.86	101.37	104.30
25	BB	2166	U	O4'-C4'-C3'	-5.86	98.14	104.00
25	BB	2360	G	O4'-C1'-C2'	5.86	112.88	107.60
25	BB	2409	G	C5-C6-O6	-5.86	125.08	128.60
25	BB	2539	C	O4'-C1'-N1	5.86	112.89	108.20
3	A1	817	C	P-O5'-C5'	5.86	130.28	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1248	A	C4'-C3'-C2'	-5.86	96.74	102.60
3	A1	1527	U	O4'-C4'-C3'	5.86	110.79	106.10
25	BB	368	A	C5'-C4'-O4'	5.86	116.13	109.10
25	BB	369	U	C2-N3-C4	-5.86	123.48	127.00
25	BB	573	U	C5'-C4'-O4'	-5.86	102.07	109.10
25	BB	831	G	C6-C5-N7	5.86	133.92	130.40
25	BB	1842	G	C6-C5-N7	5.86	133.92	130.40
25	BB	2300	C	C3'-C2'-C1'	5.86	106.19	101.50
27	BD	18	ARG	CD-NE-CZ	5.86	131.81	123.60
3	A1	445	G	C5-C6-N1	5.86	114.43	111.50
3	A1	606	G	C6-N1-C2	-5.86	121.58	125.10
3	A1	1035	A	C5-N7-C8	-5.86	100.97	103.90
3	A1	1305	G	O4'-C4'-C3'	5.86	110.79	106.10
3	A1	1310	G	C4-C5-N7	-5.86	108.46	110.80
8	AG	60	ARG	CD-NE-CZ	5.86	131.81	123.60
15	AO	155	ARG	NE-CZ-NH2	5.86	123.23	120.30
24	BA	19	C	P-O3'-C3'	5.86	126.73	119.70
24	BA	20	G	C5'-C4'-O4'	-5.86	102.07	109.10
25	BB	176	A	C5-C6-N6	5.86	128.39	123.70
25	BB	1189	A	C5-N7-C8	-5.86	100.97	103.90
25	BB	2083	G	C5'-C4'-C3'	-5.86	106.62	116.00
25	BB	2231	U	N3-C4-O4	-5.86	115.30	119.40
25	BB	2481	G	O4'-C4'-C3'	5.86	110.79	106.10
25	BB	2686	G	N1-C6-O6	-5.86	116.38	119.90
25	BB	2738	A	C6-C5-N7	5.86	136.40	132.30
25	BB	2885	G	O4'-C1'-N9	5.86	112.89	108.20
48	BY	179	ARG	NE-CZ-NH2	5.86	123.23	120.30
3	A1	69	G	N1-C2-N2	5.86	121.47	116.20
3	A1	380	G	C6-N1-C2	-5.86	121.58	125.10
22	AW	117	LEU	CB-CG-CD1	-5.86	101.04	111.00
25	BB	327	G	N1-C2-N3	5.86	127.42	123.90
25	BB	1465	G	C4-N9-C1'	-5.86	118.88	126.50
29	BF	18	ARG	NE-CZ-NH1	-5.86	117.37	120.30
44	BU	10	LEU	CB-CG-CD2	5.86	120.96	111.00
1	AP	30	G	C2-N3-C4	5.86	114.83	111.90
1	AP	32	C	N3-C4-C5	5.86	124.24	121.90
3	A1	133	U	C2-N3-C4	-5.86	123.49	127.00
3	A1	587	G	N1-C2-N2	-5.86	110.93	116.20
3	A1	616	G	N3-C2-N2	-5.86	115.80	119.90
3	A1	651	C	N1-C2-N3	5.86	123.30	119.20
3	A1	1282	C	N3-C4-C5	5.86	124.24	121.90
24	BA	100	G	C4'-C3'-O3'	5.86	124.72	113.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	121	G	C6-N1-C2	-5.86	121.58	125.10
25	BB	509	C	O4'-C1'-N1	-5.86	103.52	108.20
25	BB	856	G	C6-N1-C2	-5.86	121.59	125.10
25	BB	1311	G	N1-C6-O6	-5.86	116.39	119.90
25	BB	1632	A	C4-C5-C6	-5.86	114.07	117.00
25	BB	1835	G	O4'-C1'-N9	-5.86	103.51	108.20
25	BB	2002	G	C4-C5-C6	-5.86	115.28	118.80
25	BB	2257	U	C4'-C3'-C2'	-5.86	96.74	102.60
25	BB	2291	U	C5'-C4'-C3'	-5.86	106.63	116.00
25	BB	2869	G	O4'-C4'-C3'	5.86	110.79	106.10
50	B1	117	ARG	CD-NE-CZ	5.86	131.80	123.60
52	B3	163	TYR	CG-CD2-CE2	-5.86	116.61	121.30
3	A1	422	C	N1-C1'-C2'	5.86	121.61	114.00
3	A1	625	U	O5'-C5'-C4'	-5.86	100.57	111.70
25	BB	672	C	C5-C6-N1	-5.86	118.07	121.00
25	BB	985	C	C3'-C2'-C1'	5.86	106.18	101.50
25	BB	1508	A	N3-C4-N9	5.86	132.08	127.40
25	BB	1660	G	C5-C6-N1	5.86	114.43	111.50
25	BB	1716	U	N3-C2-O2	-5.86	118.10	122.20
25	BB	2296	U	C6-N1-C2	-5.86	117.49	121.00
25	BB	2325	G	O5'-C5'-C4'	5.86	122.82	111.70
25	BB	2463	C	O4'-C1'-N1	-5.86	103.52	108.20
29	BF	101	VAL	CA-CB-CG2	5.86	119.68	110.90
3	A1	70	U	N3-C2-O2	-5.85	118.10	122.20
3	A1	478	A	N3-C4-N9	-5.85	122.72	127.40
3	A1	1119	C	C6-N1-C2	-5.85	117.96	120.30
3	A1	1404	C	N3-C4-C5	5.85	124.24	121.90
21	AV	63	LYS	N-CA-CB	-5.85	100.06	110.60
25	BB	227	A	C4-C5-N7	-5.85	107.77	110.70
25	BB	551	G	C2-N3-C4	5.85	114.83	111.90
25	BB	1614	A	N7-C8-N9	5.85	116.73	113.80
25	BB	2121	G	N1-C2-N3	5.85	127.41	123.90
25	BB	2198	A	C1'-O4'-C4'	-5.85	105.22	109.90
25	BB	2410	G	N9-C4-C5	-5.85	103.06	105.40
25	BB	2621	G	C5-C6-O6	5.85	132.11	128.60
3	A1	375	U	N1-C2-O2	-5.85	118.70	122.80
3	A1	1180	A	C2-N3-C4	5.85	113.53	110.60
3	A1	1515	G	C5-N7-C8	5.85	107.23	104.30
24	BA	33	G	O4'-C1'-N9	-5.85	103.52	108.20
25	BB	164	C	C1'-O4'-C4'	-5.85	105.22	109.90
25	BB	258	G	O4'-C1'-N9	-5.85	103.52	108.20
25	BB	260	G	C5-N7-C8	-5.85	101.37	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	527	C	C4'-C3'-C2'	-5.85	96.75	102.60
25	BB	754	U	P-O3'-C3'	5.85	126.72	119.70
25	BB	1207	C	C4-C5-C6	5.85	120.33	117.40
25	BB	1651	G	O4'-C1'-N9	5.85	112.88	108.20
25	BB	1813	G	N3-C2-N2	-5.85	115.80	119.90
25	BB	1935	G	C6-C5-N7	5.85	133.91	130.40
25	BB	1947	C	C4-C5-C6	5.85	120.33	117.40
25	BB	2104	C	C5-C4-N4	5.85	124.30	120.20
25	BB	2440	C	O4'-C1'-N1	5.85	112.88	108.20
25	BB	2605	U	N3-C2-O2	-5.85	118.10	122.20
25	BB	2633	G	C5-C6-N1	5.85	114.43	111.50
30	BG	50	PRO	N-CA-CB	5.85	110.32	103.30
48	BY	146	ILE	CB-CA-C	5.85	123.30	111.60
3	A1	294	U	C4-C5-C6	5.85	123.21	119.70
3	A1	878	A	O4'-C4'-C3'	5.85	110.78	106.10
25	BB	948	C	C1'-O4'-C4'	-5.85	105.22	109.90
25	BB	990	A	N1-C2-N3	-5.85	126.38	129.30
25	BB	1160	G	N1-C2-N3	5.85	127.41	123.90
25	BB	1253	A	O4'-C1'-N9	5.85	112.88	108.20
25	BB	2477	U	N1-C2-N3	5.85	118.41	114.90
25	BB	2486	C	C6-N1-C2	5.85	122.64	120.30
25	BB	2617	U	N3-C4-O4	-5.85	115.30	119.40
3	A1	965	U	O4'-C1'-N1	5.85	112.88	108.20
25	BB	42	A	O4'-C1'-N9	5.85	112.88	108.20
25	BB	485	C	C5-C6-N1	-5.85	118.08	121.00
25	BB	625	G	C8-N9-C4	-5.85	104.06	106.40
25	BB	1172	C	C4'-C3'-C2'	-5.85	96.75	102.60
25	BB	1175	A	C6-N1-C2	-5.85	115.09	118.60
25	BB	1633	G	O4'-C4'-C3'	5.85	110.78	106.10
25	BB	2024	G	C5-C6-N1	5.85	114.42	111.50
25	BB	2491	U	C2'-C3'-O3'	5.85	123.06	113.70
25	BB	2797	U	O4'-C1'-C2'	-5.85	99.95	105.80
25	BB	2829	A	C8-N9-C4	-5.85	103.46	105.80
25	BB	2838	G	N3-C2-N2	-5.85	115.81	119.90
1	AA	74	C	N3-C2-O2	5.85	125.99	121.90
3	A1	347	G	C4-C5-N7	-5.85	108.46	110.80
3	A1	364	A	C4-C5-N7	-5.85	107.78	110.70
3	A1	980	C	C5'-C4'-C3'	-5.85	106.64	116.00
3	A1	1140	C	N3-C2-O2	-5.85	117.81	121.90
3	A1	1171	A	C6-N1-C2	-5.85	115.09	118.60
9	AH	16	ARG	NH1-CZ-NH2	-5.85	112.97	119.40
25	BB	349	U	O4'-C1'-N1	5.85	112.88	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	825	A	C3'-C2'-C1'	5.85	106.18	101.50
25	BB	976	G	C4-C5-C6	-5.85	115.29	118.80
25	BB	1067	A	P-O3'-C3'	5.85	126.72	119.70
25	BB	1135	C	N1-C2-O2	5.85	122.41	118.90
25	BB	1145	C	C5-C4-N4	-5.85	116.11	120.20
25	BB	1309	G	C5-C6-N1	5.85	114.42	111.50
25	BB	1584	U	N3-C4-C5	5.85	118.11	114.60
25	BB	1678	A	C4-C5-N7	-5.85	107.78	110.70
25	BB	1797	G	C8-N9-C4	-5.85	104.06	106.40
25	BB	2316	G	O4'-C1'-N9	5.85	112.88	108.20
25	BB	2380	C	O4'-C1'-N1	5.85	112.88	108.20
25	BB	2449	U	C2-N3-C4	-5.85	123.49	127.00
25	BB	2458	G	P-O3'-C3'	5.85	126.72	119.70
49	BZ	61	ALA	N-CA-CB	-5.85	101.92	110.10
10	AI	51	ARG	NH1-CZ-NH2	-5.85	112.97	119.40
25	BB	33	C	C1'-O4'-C4'	-5.85	105.22	109.90
25	BB	1099	G	C4-C5-N7	5.85	113.14	110.80
25	BB	1341	G	O3'-P-O5'	-5.85	92.89	104.00
1	AE	10	G	O4'-C1'-N9	5.84	112.88	108.20
3	A1	308	C	OP2-P-O3'	5.84	118.06	105.20
3	A1	484	G	C4'-C3'-O3'	-5.84	97.12	109.40
25	BB	181	A	O5'-C5'-C4'	-5.84	100.59	111.70
25	BB	450	G	C4'-C3'-C2'	-5.84	96.75	102.60
25	BB	662	G	C5-N7-C8	-5.84	101.38	104.30
25	BB	821	A	C5'-C4'-C3'	-5.84	106.65	116.00
25	BB	998	C	O4'-C1'-C2'	-5.84	99.95	105.80
25	BB	1165	A	O4'-C1'-N9	-5.84	103.52	108.20
25	BB	2342	C	N1-C2-N3	5.84	123.29	119.20
25	BB	2388	A	C5-C6-N6	5.84	128.38	123.70
25	BB	2823	A	C4-C5-C6	-5.84	114.08	117.00
1	AP	41	U	C5'-C4'-O4'	5.84	116.11	109.10
3	A1	242	G	N3-C2-N2	-5.84	115.81	119.90
3	A1	1091	U	C5'-C4'-C3'	-5.84	106.65	116.00
3	A1	1393	U	OP1-P-OP2	5.84	128.36	119.60
3	A1	1453	G	C5'-C4'-C3'	-5.84	106.65	116.00
18	AS	47	PHE	CD1-CE1-CZ	-5.84	113.09	120.10
25	BB	138	U	C5-C4-O4	-5.84	122.39	125.90
25	BB	214	G	N3-C4-C5	-5.84	125.68	128.60
25	BB	431	U	O4'-C4'-C3'	5.84	110.77	106.10
25	BB	783	A	C4-C5-C6	-5.84	114.08	117.00
25	BB	1896	G	N3-C2-N2	5.84	123.99	119.90
25	BB	2323	G	N3-C4-N9	5.84	129.51	126.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2468	A	C3'-C2'-C1'	5.84	106.17	101.50
3	A1	402	G	O4'-C4'-C3'	5.84	110.77	106.10
3	A1	424	G	C3'-C2'-C1'	5.84	106.17	101.50
3	A1	601	G	C4-C5-C6	-5.84	115.30	118.80
3	A1	818	G	C5'-C4'-O4'	-5.84	102.09	109.10
3	A1	869	G	C5-C6-O6	5.84	132.10	128.60
3	A1	1058	G	C5-C6-N1	5.84	114.42	111.50
3	A1	1104	G	N1-C2-N3	5.84	127.41	123.90
3	A1	1163	A	N1-C2-N3	-5.84	126.38	129.30
17	AR	80	ARG	CD-NE-CZ	5.84	131.78	123.60
25	BB	613	A	O4'-C1'-N9	5.84	112.87	108.20
25	BB	996	A	N9-C4-C5	-5.84	103.46	105.80
25	BB	1420	A	O4'-C1'-N9	5.84	112.87	108.20
25	BB	1814	G	N3-C4-C5	-5.84	125.68	128.60
25	BB	1883	U	C5-C6-N1	-5.84	119.78	122.70
25	BB	1889	A	O4'-C1'-N9	5.84	112.87	108.20
25	BB	2660	A	N7-C8-N9	5.84	116.72	113.80
25	BB	2693	G	C8-N9-C4	-5.84	104.06	106.40
25	BB	2814	A	C5-C6-N1	5.84	120.62	117.70
27	BD	16	ALA	N-CA-CB	-5.84	101.92	110.10
54	B5	133	ARG	NE-CZ-NH2	-5.84	117.38	120.30
55	B6	120	ARG	NE-CZ-NH2	5.84	123.22	120.30
1	AE	22	G	C8-N9-C1'	-5.84	119.41	127.00
1	AE	42	G	C5'-C4'-O4'	5.84	116.11	109.10
3	A1	129	A	C1'-O4'-C4'	-5.84	105.23	109.90
3	A1	331	G	C1'-O4'-C4'	-5.84	105.23	109.90
3	A1	942	G	N1-C6-O6	-5.84	116.40	119.90
3	A1	1130	A	C6-C5-N7	5.84	136.39	132.30
3	A1	1297	G	N1-C2-N2	-5.84	110.94	116.20
24	BA	17	C	C2-N3-C4	-5.84	116.98	119.90
25	BB	38	A	C8-N9-C4	-5.84	103.47	105.80
25	BB	743	A	N1-C2-N3	-5.84	126.38	129.30
25	BB	1801	A	C4-C5-C6	-5.84	114.08	117.00
25	BB	1865	U	C4-C5-C6	5.84	123.20	119.70
25	BB	2291	U	C5-C4-O4	5.84	129.40	125.90
25	BB	2783	U	N1-C2-N3	5.84	118.40	114.90
25	BB	2877	G	N3-C2-N2	-5.84	115.81	119.90
30	BG	32	GLU	OE1-CD-OE2	-5.84	116.29	123.30
3	A1	206	C	N3-C4-C5	-5.84	119.56	121.90
3	A1	434	U	N1-C2-O2	5.84	126.89	122.80
3	A1	926	G	C5-C6-O6	-5.84	125.10	128.60
25	BB	494	G	N1-C2-N3	5.84	127.40	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	513	A	C3'-C2'-C1'	-5.84	96.83	101.50
25	BB	955	U	C2-N3-C4	-5.84	123.50	127.00
25	BB	1508	A	C4-C5-C6	-5.84	114.08	117.00
25	BB	1521	G	C4-C5-N7	5.84	113.14	110.80
25	BB	2078	C	N1-C2-N3	5.84	123.29	119.20
25	BB	2228	G	O4'-C4'-C3'	5.84	110.77	106.10
25	BB	2555	U	N3-C4-O4	-5.84	115.31	119.40
3	A1	33	A	C5-N7-C8	-5.84	100.98	103.90
3	A1	221	C	N1-C2-O2	5.84	122.40	118.90
3	A1	740	U	O5'-P-OP1	-5.84	100.45	105.70
3	A1	864	A	C8-N9-C1'	5.84	138.21	127.70
3	A1	1142	G	C4-C5-N7	-5.84	108.47	110.80
25	BB	21	A	N3-C4-N9	-5.84	122.73	127.40
25	BB	616	A	O4'-C1'-N9	5.84	112.87	108.20
25	BB	666	A	C6-N1-C2	5.84	122.10	118.60
25	BB	1224	U	O5'-P-OP1	5.84	117.70	110.70
25	BB	1523	U	N3-C2-O2	-5.84	118.11	122.20
25	BB	2122	U	N3-C4-O4	5.84	123.49	119.40
25	BB	2624	G	C4'-C3'-C2'	-5.84	96.76	102.60
25	BB	2721	A	N3-C4-N9	-5.84	122.73	127.40
1	AP	3	G	P-O3'-C3'	-5.83	112.70	119.70
3	A1	904	U	O4'-C1'-C2'	5.83	112.85	107.60
3	A1	1162	C	N3-C4-C5	5.83	124.23	121.90
25	BB	260	G	C5-C6-O6	5.83	132.10	128.60
25	BB	1514	G	C1'-O4'-C4'	-5.83	105.23	109.90
25	BB	2769	U	O4'-C1'-N1	5.83	112.87	108.20
3	A1	210	C	C4-C5-C6	5.83	120.32	117.40
3	A1	703	G	C5'-C4'-O4'	-5.83	102.10	109.10
3	A1	740	U	C2-N3-C4	-5.83	123.50	127.00
3	A1	1353	G	C5-C6-O6	5.83	132.10	128.60
17	AR	61	ARG	NH1-CZ-NH2	-5.83	112.98	119.40
24	BA	68	C	C5-C6-N1	-5.83	118.08	121.00
25	BB	205	G	O3'-P-O5'	-5.83	92.92	104.00
25	BB	524	G	C4-C5-N7	-5.83	108.47	110.80
25	BB	546	U	C4'-C3'-C2'	-5.83	96.77	102.60
25	BB	1005	C	C4'-C3'-C2'	-5.83	96.77	102.60
25	BB	1255	U	P-O3'-C3'	5.83	126.70	119.70
25	BB	1265	A	C5-C6-N6	5.83	128.37	123.70
25	BB	1639	C	C4'-C3'-C2'	-5.83	96.77	102.60
25	BB	2359	C	C2-N3-C4	-5.83	116.98	119.90
25	BB	2385	C	C5-C6-N1	-5.83	118.08	121.00
25	BB	2567	G	N1-C6-O6	-5.83	116.40	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	14	A	C5'-C4'-O4'	5.83	116.10	109.10
1	AP	29	A	N7-C8-N9	5.83	116.72	113.80
1	AE	8	U	N3-C4-O4	-5.83	115.32	119.40
3	A1	208	U	O4'-C1'-N1	5.83	112.87	108.20
3	A1	515	G	C5'-C4'-O4'	5.83	116.10	109.10
3	A1	800	G	C5-N7-C8	-5.83	101.38	104.30
3	A1	1476	A	C8-N9-C4	5.83	108.13	105.80
24	BA	110	C	O4'-C1'-N1	5.83	112.86	108.20
25	BB	45	G	O3'-P-O5'	-5.83	92.92	104.00
25	BB	337	C	C3'-C2'-C1'	5.83	106.17	101.50
25	BB	480	A	N1-C2-N3	-5.83	126.38	129.30
25	BB	1338	G	P-O3'-C3'	5.83	126.70	119.70
25	BB	1962	C	N1-C2-O2	5.83	122.40	118.90
25	BB	2279	G	C2-N3-C4	-5.83	108.98	111.90
25	BB	2324	U	C1'-O4'-C4'	-5.83	105.23	109.90
25	BB	2467	C	C1'-O4'-C4'	-5.83	105.23	109.90
25	BB	2580	U	N3-C4-O4	5.83	123.48	119.40
25	BB	2795	C	C4'-C3'-C2'	-5.83	96.77	102.60
33	BJ	23	TYR	CG-CD1-CE1	-5.83	116.63	121.30
1	AP	19	G	N1-C2-N2	-5.83	110.95	116.20
3	A1	32	A	C2-N3-C4	5.83	113.52	110.60
3	A1	467	U	C1'-O4'-C4'	-5.83	105.24	109.90
3	A1	769	G	C4-C5-N7	-5.83	108.47	110.80
24	BA	36	C	C2-N3-C4	-5.83	116.98	119.90
25	BB	72	U	N3-C4-O4	-5.83	115.32	119.40
25	BB	294	A	N3-C4-N9	-5.83	122.74	127.40
25	BB	664	G	C5-N7-C8	5.83	107.22	104.30
25	BB	677	A	C3'-C2'-C1'	5.83	106.16	101.50
25	BB	1600	C	N1-C2-O2	5.83	122.40	118.90
25	BB	1958	C	C5-C4-N4	5.83	124.28	120.20
25	BB	2327	A	C4'-C3'-C2'	-5.83	96.77	102.60
25	BB	2443	C	C2'-C3'-O3'	5.83	123.03	113.70
25	BB	2872	A	C8-N9-C4	-5.83	103.47	105.80
1	AA	32	C	C3'-C2'-C1'	5.83	106.16	101.50
3	A1	159	G	O3'-P-O5'	-5.83	92.93	104.00
3	A1	325	A	C6-C5-N7	5.83	136.38	132.30
3	A1	518	C	N1-C2-O2	5.83	122.40	118.90
3	A1	1340	A	C4-C5-N7	-5.83	107.79	110.70
3	A1	1363	A	C2-N3-C4	5.83	113.51	110.60
3	A1	1404	C	N3-C2-O2	-5.83	117.82	121.90
25	BB	84	A	C5-C6-N1	5.83	120.61	117.70
25	BB	163	C	C2-N1-C1'	5.83	125.21	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	351	C	C3'-C2'-C1'	-5.83	96.84	101.50
25	BB	997	G	N3-C4-N9	-5.83	122.50	126.00
25	BB	1356	G	N3-C4-C5	-5.83	125.69	128.60
25	BB	1490	A	O4'-C1'-N9	-5.83	103.54	108.20
25	BB	1803	A	N9-C4-C5	-5.83	103.47	105.80
25	BB	2652	C	N3-C4-C5	5.83	124.23	121.90
25	BB	2738	A	C6-N1-C2	-5.83	115.10	118.60
3	A1	688	G	C5'-C4'-O4'	-5.83	102.11	109.10
3	A1	1185	G	N7-C8-N9	5.83	116.01	113.10
22	AW	11	ARG	CD-NE-CZ	5.83	131.76	123.60
25	BB	39	G	C5'-C4'-O4'	5.83	116.09	109.10
25	BB	281	C	O5'-P-OP1	-5.83	100.45	105.70
25	BB	492	A	C3'-C2'-C1'	5.83	106.16	101.50
25	BB	1272	A	C4'-C3'-C2'	-5.83	96.77	102.60
25	BB	1554	U	C4'-C3'-C2'	-5.83	96.77	102.60
25	BB	2693	G	C5-N7-C8	5.83	107.21	104.30
1	AE	25	C	C1'-O4'-C4'	-5.83	105.24	109.90
3	A1	373	A	N9-C4-C5	5.83	108.13	105.80
3	A1	430	A	C3'-C2'-C1'	5.83	106.16	101.50
3	A1	774	G	C4'-C3'-C2'	5.83	108.42	102.60
3	A1	1156	G	C5-C6-N1	5.83	114.41	111.50
3	A1	1199	U	C2-N3-C4	-5.83	123.50	127.00
25	BB	176	A	N7-C8-N9	-5.83	110.89	113.80
25	BB	308	G	C2-N3-C4	5.83	114.81	111.90
25	BB	605	G	N3-C2-N2	-5.83	115.82	119.90
25	BB	902	C	N3-C4-N4	-5.83	113.92	118.00
25	BB	989	G	N3-C4-N9	5.83	129.50	126.00
25	BB	1086	A	C2-N3-C4	5.83	113.51	110.60
25	BB	1123	C	O3'-P-O5'	-5.83	92.93	104.00
25	BB	1229	C	N3-C4-C5	5.83	124.23	121.90
25	BB	1264	A	C4-C5-N7	5.83	113.61	110.70
25	BB	1345	C	C3'-C2'-C1'	5.83	106.16	101.50
25	BB	2024	G	C6-N1-C2	-5.83	121.60	125.10
25	BB	2332	C	C2'-C3'-O3'	5.83	123.02	113.70
25	BB	2608	G	N1-C6-O6	-5.83	116.41	119.90
25	BB	2773	C	C6-N1-C2	-5.83	117.97	120.30
25	BB	2795	C	N3-C2-O2	-5.83	117.82	121.90
1	AA	53	G	N1-C2-N3	5.82	127.39	123.90
3	A1	207	C	C5'-C4'-O4'	5.82	116.09	109.10
3	A1	320	A	C5-C6-N1	5.82	120.61	117.70
4	AB	31	PHE	CG-CD2-CE2	-5.82	114.39	120.80
24	BA	91	C	N1-C2-O2	5.82	122.39	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	108	G	N9-C4-C5	-5.82	103.07	105.40
25	BB	298	G	C4-C5-N7	5.82	113.13	110.80
25	BB	476	G	C1'-O4'-C4'	-5.82	105.24	109.90
25	BB	481	G	N9-C1'-C2'	-5.82	105.59	112.00
25	BB	1402	U	P-O3'-C3'	5.82	126.69	119.70
25	BB	1566	A	C6-C5-N7	5.82	136.38	132.30
25	BB	2293	G	O4'-C1'-N9	5.82	112.86	108.20
25	BB	2686	G	C3'-C2'-C1'	5.82	106.16	101.50
32	BI	30	TRP	CH2-CZ2-CE2	5.82	123.22	117.40
34	BK	81	LYS	C-N-CA	5.82	136.26	121.70
37	BN	173	LEU	CB-CG-CD2	5.82	120.90	111.00
3	A1	415	A	C8-N9-C4	-5.82	103.47	105.80
25	BB	801	G	O4'-C1'-N9	5.82	112.86	108.20
25	BB	1792	G	OP2-P-O3'	5.82	118.01	105.20
25	BB	1839	G	N3-C4-N9	-5.82	122.51	126.00
25	BB	1875	G	C5-C6-O6	5.82	132.09	128.60
25	BB	2384	U	C5'-C4'-C3'	-5.82	106.69	116.00
3	A1	183	C	N1-C2-N3	5.82	123.27	119.20
3	A1	504	C	O4'-C4'-C3'	5.82	110.76	106.10
3	A1	546	A	C6-C5-N7	5.82	136.37	132.30
3	A1	646	G	N3-C4-C5	-5.82	125.69	128.60
3	A1	1318	A	C5'-C4'-C3'	-5.82	106.69	116.00
3	A1	1408	A	O4'-C1'-N9	-5.82	103.54	108.20
3	A1	1446	A	C5'-C4'-C3'	-5.82	106.69	116.00
23	AX	89	ARG	NH1-CZ-NH2	-5.82	113.00	119.40
24	BA	42	C	N3-C4-C5	5.82	124.23	121.90
25	BB	982	C	C5-C4-N4	-5.82	116.13	120.20
25	BB	1477	A	C4-C5-C6	-5.82	114.09	117.00
25	BB	1611	C	C5'-C4'-O4'	5.82	116.09	109.10
25	BB	1855	U	C1'-O4'-C4'	-5.82	105.24	109.90
25	BB	2373	G	C6-N1-C2	-5.82	121.61	125.10
25	BB	2703	C	C2-N3-C4	-5.82	116.99	119.90
25	BB	2767	C	O4'-C1'-N1	5.82	112.86	108.20
39	BP	63	ASP	C-N-CA	5.82	134.52	122.30
3	A1	436	C	O4'-C4'-C3'	5.82	110.75	106.10
3	A1	838	G	C8-N9-C4	-5.82	104.07	106.40
3	A1	1274	A	N9-C1'-C2'	-5.82	105.60	112.00
25	BB	90	U	O5'-C5'-C4'	5.82	122.75	111.70
25	BB	1977	A	N3-C4-N9	-5.82	122.75	127.40
25	BB	2164	C	N1-C2-N3	5.82	123.27	119.20
25	BB	2454	G	C5-N7-C8	-5.82	101.39	104.30
3	A1	115	G	C6-C5-N7	5.82	133.89	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	265	G	N3-C4-C5	-5.82	125.69	128.60
3	A1	722	G	N7-C8-N9	-5.82	110.19	113.10
3	A1	750	C	O4'-C4'-C3'	5.82	110.75	106.10
3	A1	1167	A	C6-C5-N7	5.82	136.37	132.30
3	A1	1176	A	C5-C6-N6	5.82	128.35	123.70
3	A1	1208	C	C1'-O4'-C4'	-5.82	105.25	109.90
25	BB	887	U	C5'-C4'-O4'	5.82	116.08	109.10
25	BB	1429	G	N1-C2-N3	5.82	127.39	123.90
25	BB	1639	C	O4'-C1'-C2'	-5.82	99.98	105.80
25	BB	1986	C	C5-C6-N1	-5.82	118.09	121.00
25	BB	2034	U	N1-C2-N3	5.82	118.39	114.90
25	BB	2220	U	C6-N1-C2	5.82	124.49	121.00
25	BB	2678	C	N3-C2-O2	-5.82	117.83	121.90
41	BR	15	ARG	NE-CZ-NH1	-5.82	117.39	120.30
53	B4	27	ARG	NE-CZ-NH1	-5.82	117.39	120.30
1	AP	10	G	O4'-C1'-N9	5.82	112.85	108.20
1	AE	63	C	O4'-C4'-C3'	5.82	110.75	106.10
3	A1	45	G	C4-N9-C1'	-5.82	118.94	126.50
3	A1	198	G	C6-C5-N7	5.82	133.89	130.40
3	A1	354	G	C4-C5-C6	-5.82	115.31	118.80
3	A1	768	A	C4-C5-C6	-5.82	114.09	117.00
3	A1	914	A	C6-N1-C2	-5.82	115.11	118.60
3	A1	1277	C	N1-C2-N3	5.82	123.27	119.20
3	A1	1490	U	N3-C4-C5	-5.82	111.11	114.60
3	A1	1493	A	C3'-C2'-C1'	5.82	106.15	101.50
25	BB	311	A	C4-C5-N7	-5.82	107.79	110.70
25	BB	340	A	C4'-C3'-C2'	-5.82	96.78	102.60
25	BB	425	G	C6-N1-C2	-5.82	121.61	125.10
25	BB	558	U	C3'-C2'-C1'	-5.82	96.85	101.50
25	BB	627	A	C5-C6-N1	5.82	120.61	117.70
25	BB	1511	G	C3'-C2'-C1'	-5.82	96.85	101.50
25	BB	1638	C	N3-C4-N4	-5.82	113.93	118.00
25	BB	2402	U	N1-C2-N3	-5.82	111.41	114.90
25	BB	2420	C	C4'-C3'-O3'	5.82	124.63	113.00
25	BB	2642	G	C8-N9-C4	5.82	108.73	106.40
25	BB	2838	G	N9-C1'-C2'	-5.82	105.60	112.00
25	BB	2865	U	P-O3'-C3'	5.82	126.68	119.70
3	A1	105	G	C5-C6-N1	-5.81	108.59	111.50
3	A1	442	G	N1-C2-N3	5.81	127.39	123.90
3	A1	766	A	N3-C4-C5	-5.81	122.73	126.80
3	A1	937	A	C6-C5-N7	5.81	136.37	132.30
3	A1	1250	A	C3'-C2'-C1'	5.81	106.15	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	85	G	C8-N9-C4	-5.81	104.07	106.40
25	BB	303	G	N1-C6-O6	-5.81	116.41	119.90
25	BB	902	C	N3-C4-C5	5.81	124.22	121.90
25	BB	1032	A	C1'-O4'-C4'	-5.81	105.25	109.90
25	BB	2148	G	C4-C5-N7	-5.81	108.47	110.80
1	AA	42	G	N3-C2-N2	5.81	123.97	119.90
1	AA	43	G	C5'-C4'-O4'	5.81	116.08	109.10
1	AA	56	C	O4'-C4'-C3'	5.81	110.75	106.10
3	A1	65	A	C1'-O4'-C4'	5.81	114.55	109.90
3	A1	360	G	N3-C2-N2	-5.81	115.83	119.90
3	A1	568	G	C5'-C4'-O4'	5.81	116.08	109.10
3	A1	847	G	C6-N1-C2	-5.81	121.61	125.10
3	A1	871	U	N3-C2-O2	-5.81	118.13	122.20
3	A1	1048	G	C2-N3-C4	-5.81	108.99	111.90
3	A1	1120	C	N3-C2-O2	-5.81	117.83	121.90
3	A1	1491	G	N1-C2-N2	-5.81	110.97	116.20
25	BB	82	U	N3-C2-O2	-5.81	118.13	122.20
25	BB	129	C	O4'-C1'-C2'	-5.81	99.99	105.80
25	BB	1031	G	C4-C5-C6	-5.81	115.31	118.80
25	BB	1189	A	C4'-C3'-O3'	5.81	124.63	113.00
25	BB	1304	A	C6-N1-C2	-5.81	115.11	118.60
25	BB	1809	A	O3'-P-O5'	5.81	115.05	104.00
25	BB	2480	C	N3-C2-O2	-5.81	117.83	121.90
25	BB	2577	A	P-O3'-C3'	5.81	126.67	119.70
25	BB	2614	A	N1-C2-N3	-5.81	126.39	129.30
26	BC	79	ARG	CD-NE-CZ	5.81	131.74	123.60
54	B5	138	VAL	CA-CB-CG2	-5.81	102.18	110.90
1	AA	55	U	O3'-P-O5'	-5.81	92.96	104.00
3	A1	898	G	C3'-C2'-C1'	5.81	106.15	101.50
3	A1	1292	G	C5-C6-O6	5.81	132.09	128.60
25	BB	549	G	C6-C5-N7	-5.81	126.91	130.40
25	BB	2162	G	N1-C6-O6	-5.81	116.41	119.90
25	BB	2700	A	C5'-C4'-O4'	-5.81	102.13	109.10
48	BY	141	ARG	CB-CA-C	5.81	122.02	110.40
1	AA	17	U	O3'-P-O5'	5.81	115.04	104.00
3	A1	50	A	C5'-C4'-O4'	5.81	116.07	109.10
3	A1	150	U	C4'-C3'-C2'	-5.81	96.79	102.60
3	A1	184	G	N3-C4-N9	5.81	129.49	126.00
3	A1	369	G	C8-N9-C4	-5.81	104.08	106.40
3	A1	373	A	C8-N9-C4	-5.81	103.48	105.80
3	A1	430	A	N7-C8-N9	-5.81	110.89	113.80
3	A1	615	G	N7-C8-N9	-5.81	110.19	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1236	A	C6-N1-C2	-5.81	115.11	118.60
3	A1	1281	C	C1'-O4'-C4'	-5.81	105.25	109.90
3	A1	1311	A	C6-N1-C2	-5.81	115.11	118.60
16	AQ	29	ALA	N-CA-CB	-5.81	101.97	110.10
24	BA	72	G	C5-N7-C8	-5.81	101.39	104.30
25	BB	10	A	C5-C6-N1	5.81	120.61	117.70
25	BB	221	A	N9-C4-C5	5.81	108.12	105.80
25	BB	324	A	N7-C8-N9	5.81	116.70	113.80
25	BB	524	G	P-O3'-C3'	5.81	126.67	119.70
25	BB	785	G	O3'-P-O5'	5.81	115.04	104.00
25	BB	904	G	N3-C4-C5	-5.81	125.69	128.60
25	BB	915	C	N1-C2-N3	-5.81	115.13	119.20
25	BB	1012	U	C5-C4-O4	-5.81	122.41	125.90
25	BB	1327	A	C5-N7-C8	5.81	106.80	103.90
25	BB	1376	C	N3-C4-C5	5.81	124.22	121.90
25	BB	2463	C	C5'-C4'-O4'	5.81	116.07	109.10
25	BB	2785	C	O3'-P-O5'	5.81	115.04	104.00
25	BB	2892	G	N1-C6-O6	-5.81	116.41	119.90
37	BN	206	LYS	C-N-CA	5.81	136.22	121.70
48	BY	13	ARG	NH1-CZ-NH2	-5.81	113.01	119.40
48	BY	23	PRO	O-C-N	5.81	131.99	122.70
48	BY	141	ARG	NE-CZ-NH1	-5.81	117.39	120.30
3	A1	316	C	P-O3'-C3'	5.81	126.67	119.70
3	A1	484	G	C5-N7-C8	-5.81	101.40	104.30
3	A1	853	C	C5'-C4'-C3'	-5.81	106.71	116.00
3	A1	1002	G	C8-N9-C1'	5.81	134.55	127.00
3	A1	1120	C	C1'-O4'-C4'	-5.81	105.25	109.90
11	AJ	66	LEU	O-C-N	-5.81	113.41	122.70
25	BB	498	G	N3-C4-N9	5.81	129.49	126.00
25	BB	1284	A	N9-C4-C5	-5.81	103.48	105.80
25	BB	1861	G	N3-C4-N9	5.81	129.48	126.00
25	BB	2033	A	C5'-C4'-O4'	5.81	116.07	109.10
25	BB	2259	U	O4'-C1'-N1	-5.81	103.55	108.20
25	BB	2311	A	N9-C4-C5	5.81	108.12	105.80
37	BN	122	ALA	CB-CA-C	5.81	118.81	110.10
3	A1	533	A	C8-N9-C4	5.81	108.12	105.80
3	A1	979	C	O4'-C1'-N1	5.81	112.84	108.20
3	A1	985	C	N3-C4-N4	-5.81	113.94	118.00
3	A1	1044	A	C6-C5-N7	5.81	136.36	132.30
3	A1	1181	G	N3-C4-N9	5.81	129.48	126.00
3	A1	1251	A	C4'-C3'-C2'	-5.81	96.79	102.60
3	A1	1273	C	N3-C4-N4	-5.81	113.94	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1	G	C4'-C3'-C2'	-5.81	96.79	102.60
25	BB	609	A	C3'-C2'-C1'	5.81	106.14	101.50
25	BB	811	U	N1-C2-O2	5.81	126.86	122.80
25	BB	1097	U	N1-C2-O2	5.81	126.86	122.80
25	BB	1249	U	C4'-C3'-C2'	-5.81	96.79	102.60
25	BB	1561	C	O4'-C1'-N1	5.81	112.84	108.20
3	A1	840	C	C2-N3-C4	-5.80	117.00	119.90
3	A1	877	G	O5'-P-OP2	-5.80	100.48	105.70
3	A1	932	C	C3'-C2'-C1'	5.80	106.14	101.50
3	A1	1273	C	N3-C4-C5	5.80	124.22	121.90
24	BA	71	C	C6-N1-C2	-5.80	117.98	120.30
25	BB	596	U	C5-C4-O4	5.80	129.38	125.90
25	BB	765	C	O4'-C1'-N1	5.80	112.84	108.20
25	BB	1157	G	C4'-C3'-C2'	-5.80	96.80	102.60
25	BB	1448	G	C5'-C4'-O4'	5.80	116.07	109.10
25	BB	1791	A	N7-C8-N9	5.80	116.70	113.80
25	BB	1839	G	O3'-P-O5'	5.80	115.03	104.00
25	BB	1858	A	C2-N3-C4	5.80	113.50	110.60
25	BB	2188	U	C1'-O4'-C4'	-5.80	105.26	109.90
25	BB	2279	G	N3-C2-N2	-5.80	115.84	119.90
25	BB	2392	A	N7-C8-N9	5.80	116.70	113.80
25	BB	2608	G	C8-N9-C4	5.80	108.72	106.40
48	BY	151	THR	CA-CB-CG2	5.80	120.53	112.40
1	AA	19	G	N3-C2-N2	-5.80	115.84	119.90
1	AE	37	G	C4-C5-N7	5.80	113.12	110.80
1	AE	55	U	O4'-C1'-N1	5.80	112.84	108.20
3	A1	1494	G	C5-C6-N1	5.80	114.40	111.50
11	AJ	72	TRP	NE1-CE2-CD2	-5.80	101.50	107.30
25	BB	150	U	N1-C2-N3	5.80	118.38	114.90
25	BB	557	C	N3-C4-C5	5.80	124.22	121.90
25	BB	812	C	C4'-C3'-C2'	-5.80	96.80	102.60
25	BB	911	A	C5'-C4'-O4'	-5.80	102.14	109.10
25	BB	1475	G	N3-C4-C5	-5.80	125.70	128.60
25	BB	2298	A	C2'-C3'-O3'	5.80	122.98	113.70
2	AM	17	U	C4-C5-C6	5.80	123.18	119.70
3	A1	1048	G	N7-C8-N9	5.80	116.00	113.10
3	A1	1504	G	C1'-O4'-C4'	-5.80	105.26	109.90
25	BB	85	G	C5-C6-N1	5.80	114.40	111.50
25	BB	803	U	C1'-O4'-C4'	-5.80	105.26	109.90
25	BB	1215	G	C5-C6-O6	5.80	132.08	128.60
25	BB	1300	G	O4'-C4'-C3'	5.80	110.74	106.10
25	BB	1798	U	C2-N3-C4	-5.80	123.52	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1941	C	C5-C6-N1	-5.80	118.10	121.00
25	BB	2772	C	C5-C6-N1	-5.80	118.10	121.00
25	BB	2789	C	C4'-C3'-C2'	-5.80	96.80	102.60
1	AA	34	G	N3-C4-N9	5.80	129.48	126.00
1	AP	43	G	N9-C1'-C2'	-5.80	105.62	112.00
2	AM	15	U	C4-C5-C6	5.80	123.18	119.70
3	A1	23	C	C3'-C2'-C1'	5.80	106.14	101.50
3	A1	183	C	C4'-C3'-C2'	5.80	108.40	102.60
3	A1	692	U	N1-C2-O2	5.80	126.86	122.80
3	A1	1078	U	O4'-C4'-C3'	5.80	110.74	106.10
3	A1	1191	A	N7-C8-N9	5.80	116.70	113.80
6	AD	94	TYR	CB-CG-CD1	-5.80	117.52	121.00
24	BA	106	G	C6-N1-C2	-5.80	121.62	125.10
25	BB	545	U	C2-N3-C4	-5.80	123.52	127.00
25	BB	1013	C	C5-C4-N4	5.80	124.26	120.20
25	BB	1271	G	C5-C6-N1	5.80	114.40	111.50
25	BB	1337	G	C2-N3-C4	5.80	114.80	111.90
25	BB	2264	C	C5-C6-N1	-5.80	118.10	121.00
25	BB	2598	A	O5'-C5'-C4'	5.80	122.72	111.70
25	BB	2749	A	N3-C4-C5	-5.80	122.74	126.80
37	BN	237	ARG	CD-NE-CZ	5.80	131.72	123.60
48	BY	156	PHE	CB-CG-CD2	5.80	124.86	120.80
1	AP	28	C	C5-C6-N1	5.80	123.90	121.00
3	A1	158	G	C4-C5-C6	-5.80	115.32	118.80
3	A1	272	C	C1'-O4'-C4'	5.80	114.54	109.90
3	A1	721	G	N3-C4-C5	-5.80	125.70	128.60
3	A1	767	A	C6-C5-N7	5.80	136.36	132.30
3	A1	1033	G	N9-C1'-C2'	-5.80	105.62	112.00
3	A1	1435	G	C8-N9-C1'	5.80	134.54	127.00
25	BB	49	A	C4-C5-N7	5.80	113.60	110.70
25	BB	260	G	C5-C6-N1	-5.80	108.60	111.50
25	BB	2629	U	C2-N1-C1'	-5.80	110.74	117.70
25	BB	2866	U	C4'-C3'-C2'	-5.80	96.80	102.60
48	BY	196	ALA	C-N-CA	5.80	136.20	121.70
3	A1	458	U	O5'-P-OP1	-5.80	100.48	105.70
3	A1	723	U	C1'-O4'-C4'	-5.80	105.26	109.90
24	BA	100	G	C5'-C4'-O4'	5.80	116.06	109.10
25	BB	263	G	N9-C4-C5	5.80	107.72	105.40
25	BB	655	A	C5'-C4'-C3'	-5.80	106.73	116.00
25	BB	1088	A	O4'-C4'-C3'	-5.80	98.20	104.00
25	BB	1360	G	N9-C4-C5	5.80	107.72	105.40
25	BB	1960	A	C2'-C3'-O3'	5.80	122.97	113.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2737	G	N9-C4-C5	-5.80	103.08	105.40
3	A1	423	G	N3-C4-C5	-5.79	125.70	128.60
3	A1	449	G	O4'-C1'-C2'	5.79	112.82	107.60
24	BA	65	U	C1'-O4'-C4'	-5.79	105.26	109.90
24	BA	106	G	C5-C6-N1	5.79	114.40	111.50
25	BB	309	A	C4-C5-C6	-5.79	114.10	117.00
25	BB	568	U	N3-C2-O2	-5.79	118.14	122.20
25	BB	810	U	C2-N1-C1'	-5.79	110.75	117.70
25	BB	1575	C	C5-C6-N1	-5.79	118.10	121.00
25	BB	1804	C	C5-C4-N4	5.79	124.26	120.20
25	BB	2005	A	O3'-P-O5'	5.79	115.01	104.00
25	BB	2437	G	C6-N1-C2	-5.79	121.62	125.10
25	BB	2491	U	N1-C1'-C2'	5.79	121.53	114.00
25	BB	2787	C	N3-C4-N4	-5.79	113.94	118.00
1	AP	73	A	N7-C8-N9	5.79	116.70	113.80
3	A1	94	G	C4-C5-C6	-5.79	115.32	118.80
3	A1	202	G	C2-N3-C4	5.79	114.80	111.90
3	A1	742	G	O5'-P-OP2	5.79	117.65	110.70
3	A1	950	U	N1-C2-N3	5.79	118.38	114.90
3	A1	1111	A	C6-C5-N7	5.79	136.36	132.30
3	A1	1222	G	N1-C2-N3	5.79	127.38	123.90
13	AL	18	VAL	CA-CB-CG1	5.79	119.59	110.90
24	BA	103	U	C2-N3-C4	-5.79	123.52	127.00
25	BB	51	G	N1-C6-O6	-5.79	116.42	119.90
25	BB	557	C	C5-C4-N4	-5.79	116.14	120.20
25	BB	766	U	C5-C4-O4	-5.79	122.42	125.90
25	BB	1227	G	N1-C2-N2	5.79	121.41	116.20
25	BB	1625	C	O4'-C4'-C3'	5.79	110.73	106.10
25	BB	1714	U	N3-C4-C5	-5.79	111.12	114.60
25	BB	1826	G	C4'-C3'-C2'	-5.79	96.81	102.60
25	BB	1850	G	C6-N1-C2	-5.79	121.62	125.10
25	BB	1857	G	C6-N1-C2	-5.79	121.62	125.10
25	BB	1930	G	C1'-O4'-C4'	-5.79	105.26	109.90
25	BB	1947	C	C4'-C3'-C2'	-5.79	96.81	102.60
25	BB	2023	C	O4'-C1'-C2'	-5.79	100.01	105.80
25	BB	2877	G	C2-N3-C4	-5.79	109.00	111.90
1	AE	24	G	C5-C6-O6	5.79	132.07	128.60
3	A1	44	A	C6-N1-C2	5.79	122.08	118.60
3	A1	458	U	C5-C6-N1	-5.79	119.81	122.70
3	A1	539	A	C6-N1-C2	-5.79	115.12	118.60
3	A1	772	U	C5'-C4'-O4'	5.79	116.05	109.10
3	A1	786	G	O4'-C4'-C3'	5.79	110.73	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	818	G	C2-N3-C4	5.79	114.80	111.90
3	A1	989	U	C2-N3-C4	-5.79	123.53	127.00
3	A1	1260	G	C2'-C3'-O3'	5.79	122.97	113.70
24	BA	69	G	N9-C1'-C2'	-5.79	105.63	112.00
25	BB	43	G	C4-C5-C6	-5.79	115.33	118.80
25	BB	64	A	C4-C5-N7	-5.79	107.80	110.70
25	BB	76	C	C5-C6-N1	-5.79	118.10	121.00
25	BB	1555	G	N9-C4-C5	5.79	107.72	105.40
25	BB	1570	A	C1'-O4'-C4'	-5.79	105.27	109.90
25	BB	1719	G	C8-N9-C4	-5.79	104.08	106.40
25	BB	1722	A	C3'-C2'-C1'	5.79	106.13	101.50
25	BB	2248	C	C4-C5-C6	-5.79	114.50	117.40
36	BM	47	VAL	CG1-CB-CG2	-5.79	101.63	110.90
3	A1	49	U	O4'-C4'-C3'	5.79	110.73	106.10
3	A1	396	C	N1-C2-O2	5.79	122.37	118.90
3	A1	627	G	C4-C5-C6	-5.79	115.33	118.80
3	A1	1113	C	N1-C2-N3	5.79	123.25	119.20
25	BB	392	U	C6-N1-C1'	5.79	129.31	121.20
25	BB	907	G	C4'-C3'-C2'	-5.79	96.81	102.60
25	BB	1136	G	C4-N9-C1'	-5.79	118.97	126.50
25	BB	1495	A	C4'-C3'-C2'	5.79	108.39	102.60
25	BB	1500	G	O4'-C1'-C2'	5.79	112.81	107.60
25	BB	2670	A	C6-C5-N7	5.79	136.35	132.30
55	B6	99	ARG	NE-CZ-NH1	5.79	123.19	120.30
3	A1	123	U	OP1-P-OP2	-5.79	110.92	119.60
3	A1	235	C	C4-C5-C6	5.79	120.29	117.40
3	A1	780	A	O4'-C4'-C3'	5.79	110.73	106.10
3	A1	799	G	C6-N1-C2	-5.79	121.63	125.10
3	A1	999	C	C5-C4-N4	-5.79	116.15	120.20
3	A1	1244	G	O4'-C1'-N9	5.79	112.83	108.20
3	A1	1340	A	C5-N7-C8	-5.79	101.00	103.90
25	BB	128	C	N3-C2-O2	-5.79	117.85	121.90
25	BB	564	C	N3-C4-N4	-5.79	113.95	118.00
25	BB	584	C	N1-C2-O2	5.79	122.37	118.90
25	BB	994	C	C3'-C2'-C1'	-5.79	96.87	101.50
25	BB	1238	G	N9-C4-C5	5.79	107.72	105.40
25	BB	2069	G	N1-C2-N2	5.79	121.41	116.20
25	BB	2361	G	C2-N3-C4	5.79	114.79	111.90
25	BB	2433	A	C6-N1-C2	5.79	122.07	118.60
25	BB	2842	G	P-O3'-C3'	5.79	126.65	119.70
3	A1	1176	A	C8-N9-C4	-5.79	103.48	105.80
12	AK	41	SER	N-CA-C	5.79	126.63	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	430	A	C1'-O4'-C4'	-5.79	105.27	109.90
25	BB	498	G	C4'-C3'-C2'	-5.79	96.81	102.60
25	BB	585	G	N3-C4-N9	5.79	129.47	126.00
25	BB	2613	U	C1'-O4'-C4'	-5.79	105.27	109.90
1	AP	73	A	C5-N7-C8	-5.79	101.01	103.90
3	A1	92	U	C1'-O4'-C4'	-5.79	105.27	109.90
3	A1	281	G	N7-C8-N9	5.79	115.99	113.10
3	A1	1294	G	C4-C5-N7	-5.79	108.48	110.80
3	A1	1347	G	O4'-C4'-C3'	5.79	110.73	106.10
3	A1	1393	U	N1-C2-O2	5.79	126.85	122.80
3	A1	1534	A	N1-C6-N6	-5.79	115.13	118.60
4	AB	143	LEU	O-C-N	-5.79	113.44	122.70
11	AJ	10	ARG	NE-CZ-NH1	5.79	123.19	120.30
25	BB	322	A	N7-C8-N9	-5.79	110.91	113.80
25	BB	406	G	C5'-C4'-O4'	5.79	116.04	109.10
25	BB	737	C	N3-C2-O2	-5.79	117.85	121.90
25	BB	1131	G	N3-C4-N9	-5.79	122.53	126.00
25	BB	1424	G	N7-C8-N9	5.79	115.99	113.10
25	BB	1622	G	C3'-C2'-C1'	5.79	106.13	101.50
25	BB	2293	G	N7-C8-N9	-5.79	110.21	113.10
25	BB	2698	U	C4-C5-C6	5.79	123.17	119.70
25	BB	2715	C	C4'-C3'-C2'	-5.79	96.81	102.60
25	BB	2882	A	C4-C5-C6	-5.79	114.11	117.00
1	AA	57	G	N1-C2-N2	5.78	121.41	116.20
3	A1	118	U	C5'-C4'-C3'	-5.78	106.75	116.00
3	A1	294	U	C1'-O4'-C4'	-5.78	105.27	109.90
3	A1	777	A	C5-C6-N6	5.78	128.33	123.70
3	A1	798	U	C4'-C3'-C2'	-5.78	96.82	102.60
3	A1	1309	G	O3'-P-O5'	-5.78	93.01	104.00
3	A1	1329	A	C1'-O4'-C4'	-5.78	105.27	109.90
16	AQ	16	ARG	N-CA-CB	-5.78	100.19	110.60
24	BA	81	G	C3'-C2'-C1'	5.78	106.13	101.50
25	BB	126	A	C5'-C4'-O4'	5.78	116.04	109.10
25	BB	215	G	N1-C2-N3	5.78	127.37	123.90
25	BB	438	G	N9-C4-C5	5.78	107.71	105.40
25	BB	475	C	N3-C4-C5	5.78	124.21	121.90
25	BB	2082	A	N9-C4-C5	5.78	108.11	105.80
25	BB	2728	U	O5'-P-OP1	5.78	117.64	110.70
55	B6	46	PRO	N-CA-CB	5.78	110.24	103.30
1	AA	29	A	C3'-C2'-C1'	-5.78	96.88	101.50
1	AP	63	C	N3-C4-C5	-5.78	119.59	121.90
3	A1	326	G	C6-C5-N7	5.78	133.87	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	390	U	C2-N3-C4	-5.78	123.53	127.00
3	A1	485	U	C5'-C4'-C3'	-5.78	106.75	116.00
3	A1	602	A	C5-C6-N1	5.78	120.59	117.70
3	A1	910	C	C2-N3-C4	-5.78	117.01	119.90
3	A1	1303	C	C5-C6-N1	-5.78	118.11	121.00
3	A1	1413	A	N9-C4-C5	5.78	108.11	105.80
3	A1	1474	U	C4-C5-C6	-5.78	116.23	119.70
20	AU	60	ALA	CB-CA-C	5.78	118.77	110.10
25	BB	1073	A	P-O3'-C3'	5.78	126.64	119.70
25	BB	1456	G	O4'-C1'-N9	5.78	112.83	108.20
25	BB	2047	C	N3-C4-C5	5.78	124.21	121.90
1	AE	37	G	C2-N3-C4	-5.78	109.01	111.90
3	A1	548	G	C5'-C4'-O4'	5.78	116.04	109.10
3	A1	854	U	C2-N3-C4	-5.78	123.53	127.00
25	BB	476	G	P-O3'-C3'	5.78	126.64	119.70
25	BB	703	U	C1'-O4'-C4'	-5.78	105.28	109.90
25	BB	775	G	C2-N3-C4	-5.78	109.01	111.90
25	BB	779	U	C3'-C2'-C1'	-5.78	96.88	101.50
25	BB	807	U	C4-C5-C6	5.78	123.17	119.70
25	BB	976	G	C3'-C2'-C1'	5.78	106.12	101.50
25	BB	1015	U	C3'-C2'-C1'	5.78	106.12	101.50
25	BB	1350	C	C2'-C3'-O3'	5.78	122.95	113.70
25	BB	1436	G	C5-C6-N1	5.78	114.39	111.50
25	BB	1910	G	N9-C4-C5	5.78	107.71	105.40
25	BB	1961	C	C1'-O4'-C4'	5.78	114.53	109.90
25	BB	2126	A	C2-N3-C4	5.78	113.49	110.60
25	BB	2531	A	C5-C6-N1	5.78	120.59	117.70
25	BB	2644	G	C6-N1-C2	-5.78	121.63	125.10
54	B5	18	ASN	CB-CA-C	5.78	121.96	110.40
3	A1	570	G	C5-C6-O6	-5.78	125.13	128.60
3	A1	1243	C	N3-C4-N4	-5.78	113.95	118.00
3	A1	1415	G	C4-C5-N7	-5.78	108.49	110.80
18	AS	111	ARG	NE-CZ-NH1	5.78	123.19	120.30
25	BB	861	A	C6-N1-C2	-5.78	115.13	118.60
25	BB	1917	U	N3-C2-O2	-5.78	118.16	122.20
25	BB	2608	G	C5-C6-O6	5.78	132.07	128.60
25	BB	2610	C	N3-C4-C5	-5.78	119.59	121.90
25	BB	2869	G	C5-C6-N1	5.78	114.39	111.50
37	BN	78	GLU	OE1-CD-OE2	-5.78	116.36	123.30
3	A1	142	G	N7-C8-N9	5.78	115.99	113.10
3	A1	613	C	C5'-C4'-C3'	-5.78	106.76	116.00
3	A1	969	A	C1'-O4'-C4'	-5.78	105.28	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1221	G	N7-C8-N9	5.78	115.99	113.10
24	BA	116	G	C2-N3-C4	-5.78	109.01	111.90
25	BB	131	A	C1'-O4'-C4'	5.78	114.52	109.90
25	BB	900	A	C3'-C2'-C1'	-5.78	96.88	101.50
25	BB	912	C	O3'-P-O5'	-5.78	93.02	104.00
25	BB	913	U	N1-C2-N3	5.78	118.37	114.90
25	BB	1054	A	C5-C6-N6	5.78	128.32	123.70
25	BB	1119	U	O5'-C5'-C4'	-5.78	100.72	111.70
25	BB	1534	U	C5'-C4'-O4'	5.78	116.03	109.10
25	BB	1703	G	N1-C2-N3	5.78	127.37	123.90
37	BN	265	PHE	CB-CG-CD2	-5.78	116.76	120.80
3	A1	675	A	C6-C5-N7	5.78	136.34	132.30
3	A1	1452	C	C5'-C4'-C3'	-5.78	106.76	116.00
22	AW	58	GLU	OE1-CD-OE2	-5.78	116.37	123.30
25	BB	19	A	C8-N9-C4	5.78	108.11	105.80
25	BB	168	G	O4'-C4'-C3'	5.78	110.72	106.10
25	BB	250	G	C5'-C4'-O4'	5.78	116.03	109.10
25	BB	389	G	N9-C4-C5	5.78	107.71	105.40
25	BB	533	G	C5-C6-O6	-5.78	125.13	128.60
25	BB	675	A	C8-N9-C4	5.78	108.11	105.80
25	BB	682	G	N7-C8-N9	-5.78	110.21	113.10
25	BB	740	C	C2'-C3'-O3'	5.78	122.94	113.70
25	BB	880	G	N9-C4-C5	-5.78	103.09	105.40
25	BB	1241	A	C5-N7-C8	-5.78	101.01	103.90
25	BB	1540	G	N9-C1'-C2'	-5.78	105.65	112.00
25	BB	1876	A	N9-C4-C5	-5.78	103.49	105.80
25	BB	1909	C	C2-N3-C4	-5.78	117.01	119.90
25	BB	2249	U	C2-N1-C1'	5.78	124.63	117.70
25	BB	2371	G	C5-C6-O6	5.78	132.07	128.60
33	BJ	13	HIS	N-CA-CB	-5.78	100.20	110.60
2	AM	3	U	C4'-C3'-C2'	-5.77	96.83	102.60
3	A1	779	C	C5-C4-N4	5.77	124.24	120.20
3	A1	933	G	C1'-O4'-C4'	-5.77	105.28	109.90
3	A1	1530	G	O3'-P-O5'	5.77	114.97	104.00
21	AV	87	ARG	CD-NE-CZ	5.77	131.68	123.60
24	BA	49	C	O4'-C1'-N1	5.77	112.82	108.20
25	BB	488	G	N3-C4-C5	-5.77	125.71	128.60
25	BB	549	G	C5-C6-N1	5.77	114.39	111.50
25	BB	576	U	C6-N1-C1'	-5.77	113.12	121.20
25	BB	670	A	C2'-C3'-O3'	5.77	122.94	113.70
25	BB	1516	G	C5-N7-C8	-5.77	101.41	104.30
25	BB	1663	G	N7-C8-N9	-5.77	110.21	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2304	G	C8-N9-C4	-5.77	104.09	106.40
1	AP	48	C	N1-C1'-C2'	-5.77	105.65	112.00
3	A1	65	A	N3-C4-N9	-5.77	122.78	127.40
3	A1	472	U	C4'-C3'-C2'	-5.77	96.83	102.60
3	A1	582	C	C5'-C4'-C3'	-5.77	106.76	116.00
3	A1	803	G	O4'-C1'-C2'	-5.77	100.03	105.80
3	A1	825	A	O4'-C4'-C3'	-5.77	98.23	104.00
25	BB	1	G	N7-C8-N9	5.77	115.99	113.10
25	BB	611	C	N3-C4-C5	5.77	124.21	121.90
25	BB	885	C	C3'-C2'-C1'	-5.77	96.88	101.50
25	BB	1017	G	C3'-C2'-C1'	5.77	106.12	101.50
25	BB	2038	G	N1-C2-N3	5.77	127.36	123.90
25	BB	2359	C	N1-C2-O2	5.77	122.36	118.90
25	BB	2534	A	C5-C6-N1	5.77	120.59	117.70
25	BB	2753	A	C5-C6-N1	5.77	120.59	117.70
55	B6	75	TYR	CB-CG-CD1	-5.77	117.54	121.00
55	B6	109	LEU	CB-CG-CD1	-5.77	101.19	111.00
3	A1	527	G	C8-N9-C4	-5.77	104.09	106.40
21	AV	44	PHE	CB-CG-CD1	-5.77	116.76	120.80
24	BA	14	U	C5'-C4'-O4'	5.77	116.03	109.10
25	BB	1297	C	O4'-C1'-N1	5.77	112.82	108.20
25	BB	1694	C	C4'-C3'-C2'	-5.77	96.83	102.60
25	BB	2659	G	N1-C6-O6	-5.77	116.44	119.90
25	BB	2731	G	C5'-C4'-C3'	-5.77	106.77	116.00
3	A1	859	G	C6-C5-N7	5.77	133.86	130.40
3	A1	974	A	C6-C5-N7	5.77	136.34	132.30
3	A1	1152	A	C1'-O4'-C4'	-5.77	105.28	109.90
3	A1	1259	C	C6-N1-C2	-5.77	117.99	120.30
8	AG	89	ARG	CD-NE-CZ	5.77	131.68	123.60
15	AO	200	TRP	CD1-CG-CD2	-5.77	101.69	106.30
25	BB	323	C	N3-C4-N4	-5.77	113.96	118.00
25	BB	523	C	C6-N1-C2	5.77	122.61	120.30
25	BB	591	U	N3-C2-O2	-5.77	118.16	122.20
25	BB	849	A	N9-C4-C5	-5.77	103.49	105.80
25	BB	1145	C	C2'-C3'-O3'	5.77	122.93	113.70
25	BB	1145	C	N1-C2-O2	5.77	122.36	118.90
25	BB	1575	C	C4'-C3'-C2'	-5.77	96.83	102.60
25	BB	1620	G	N3-C4-C5	5.77	131.49	128.60
25	BB	2003	A	C3'-C2'-C1'	5.77	106.12	101.50
25	BB	2729	G	O4'-C4'-C3'	-5.77	98.23	104.00
25	BB	2882	A	C5'-C4'-O4'	5.77	116.02	109.10
1	AE	11	C	C5'-C4'-O4'	-5.77	102.18	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	43	C	C4-C5-C6	5.77	120.28	117.40
3	A1	140	U	N3-C2-O2	-5.77	118.16	122.20
3	A1	387	U	N1-C2-N3	5.77	118.36	114.90
3	A1	1488	G	N9-C4-C5	-5.77	103.09	105.40
25	BB	315	G	C6-C5-N7	5.77	133.86	130.40
25	BB	553	G	C6-N1-C2	5.77	128.56	125.10
25	BB	1144	A	C8-N9-C4	5.77	108.11	105.80
25	BB	1325	U	C2-N3-C4	-5.77	123.54	127.00
25	BB	1432	G	N7-C8-N9	-5.77	110.22	113.10
25	BB	2637	U	C5'-C4'-C3'	-5.77	106.77	116.00
25	BB	2693	G	O4'-C1'-N9	5.77	112.81	108.20
25	BB	2758	A	O4'-C1'-N9	5.77	112.81	108.20
25	BB	2887	A	N7-C8-N9	5.77	116.68	113.80
28	BE	54	GLN	O-C-N	-5.77	113.47	122.70
1	AE	52	U	N1-C1'-C2'	5.77	121.50	114.00
3	A1	1073	U	C2-N3-C4	5.77	130.46	127.00
3	A1	1510	C	C4-C5-C6	5.77	120.28	117.40
25	BB	325	G	C3'-C2'-C1'	5.77	106.11	101.50
25	BB	595	C	C2-N3-C4	-5.77	117.02	119.90
25	BB	820	A	C4-C5-N7	5.77	113.58	110.70
25	BB	1349	C	N3-C2-O2	-5.77	117.86	121.90
25	BB	2314	A	N9-C4-C5	5.77	108.11	105.80
1	AP	25	C	C4'-C3'-C2'	-5.76	96.84	102.60
3	A1	360	G	P-O5'-C5'	5.76	130.12	120.90
3	A1	494	G	C4-C5-N7	5.76	113.11	110.80
3	A1	644	U	N3-C2-O2	-5.76	118.17	122.20
3	A1	1159	U	C5-C6-N1	-5.76	119.82	122.70
3	A1	1192	C	O4'-C1'-N1	5.76	112.81	108.20
3	A1	1220	G	N1-C2-N3	5.76	127.36	123.90
3	A1	1300	G	C5-C6-N1	5.76	114.38	111.50
3	A1	1392	G	C5-C6-N1	5.76	114.38	111.50
3	A1	1473	G	N7-C8-N9	5.76	115.98	113.10
25	BB	233	A	O4'-C1'-C2'	-5.76	100.03	105.80
25	BB	246	C	C5'-C4'-O4'	5.76	116.02	109.10
25	BB	838	C	C6-N1-C2	-5.76	117.99	120.30
25	BB	894	U	C1'-O4'-C4'	-5.76	105.29	109.90
25	BB	985	C	C2-N3-C4	-5.76	117.02	119.90
25	BB	1354	A	O5'-P-OP2	-5.76	100.51	105.70
25	BB	1470	A	C6-C5-N7	5.76	136.34	132.30
25	BB	1484	U	C4-C5-C6	5.76	123.16	119.70
25	BB	1601	G	C8-N9-C4	-5.76	104.09	106.40
25	BB	2845	U	C1'-O4'-C4'	-5.76	105.29	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2851	A	C5-N7-C8	5.76	106.78	103.90
25	BB	2868	A	C4-C5-C6	-5.76	114.12	117.00
55	B6	57	LEU	CB-CG-CD2	-5.76	101.20	111.00
3	A1	212	G	C5-C6-N1	5.76	114.38	111.50
3	A1	510	A	C2-N3-C4	5.76	113.48	110.60
3	A1	696	A	O4'-C1'-N9	-5.76	103.59	108.20
3	A1	941	G	C1'-O4'-C4'	-5.76	105.29	109.90
3	A1	969	A	C5-C6-N6	5.76	128.31	123.70
3	A1	1365	G	C4-C5-N7	-5.76	108.50	110.80
25	BB	136	G	N7-C8-N9	5.76	115.98	113.10
25	BB	979	A	N1-C2-N3	-5.76	126.42	129.30
25	BB	1338	G	C2'-C3'-O3'	5.76	122.92	113.70
25	BB	1504	A	N9-C4-C5	5.76	108.11	105.80
25	BB	2500	U	C3'-C2'-C1'	5.76	106.11	101.50
1	AP	30	G	C1'-O4'-C4'	5.76	114.51	109.90
3	A1	229	U	N1-C1'-C2'	-5.76	105.66	112.00
3	A1	330	C	N1-C2-O2	5.76	122.36	118.90
3	A1	637	C	N3-C2-O2	-5.76	117.87	121.90
3	A1	682	G	N1-C2-N2	-5.76	111.02	116.20
3	A1	712	A	C5-C6-N6	5.76	128.31	123.70
3	A1	1012	A	C4-C5-N7	-5.76	107.82	110.70
24	BA	109	A	C2-N3-C4	5.76	113.48	110.60
25	BB	629	G	C5'-C4'-O4'	-5.76	102.19	109.10
25	BB	691	C	C1'-O4'-C4'	-5.76	105.29	109.90
25	BB	983	A	C5-N7-C8	-5.76	101.02	103.90
25	BB	1448	G	N3-C2-N2	-5.76	115.87	119.90
25	BB	1735	A	O4'-C4'-C3'	5.76	110.71	106.10
25	BB	1814	G	C5-C6-O6	-5.76	125.14	128.60
25	BB	2483	C	C5-C6-N1	-5.76	118.12	121.00
25	BB	2720	U	C5'-C4'-O4'	-5.76	102.19	109.10
52	B3	93	TYR	CG-CD1-CE1	-5.76	116.69	121.30
1	AA	63	C	C1'-O4'-C4'	-5.76	105.29	109.90
1	AE	54	U	C1'-O4'-C4'	-5.76	105.29	109.90
3	A1	536	C	C5'-C4'-C3'	-5.76	106.79	116.00
3	A1	542	G	N1-C2-N3	5.76	127.36	123.90
3	A1	849	G	N3-C4-C5	-5.76	125.72	128.60
3	A1	1155	A	C6-C5-N7	5.76	136.33	132.30
3	A1	1322	C	N3-C2-O2	-5.76	117.87	121.90
3	A1	1489	G	C5-N7-C8	-5.76	101.42	104.30
24	BA	25	U	O4'-C1'-N1	5.76	112.81	108.20
25	BB	50	U	C2-N3-C4	-5.76	123.54	127.00
25	BB	141	G	N3-C2-N2	-5.76	115.87	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	917	A	C2-N3-C4	-5.76	107.72	110.60
25	BB	950	G	N7-C8-N9	5.76	115.98	113.10
25	BB	990	A	C4-C5-N7	5.76	113.58	110.70
25	BB	1276	A	O4'-C1'-N9	5.76	112.81	108.20
25	BB	1365	A	C5-N7-C8	-5.76	101.02	103.90
25	BB	1418	G	N7-C8-N9	5.76	115.98	113.10
25	BB	1574	C	N3-C4-N4	-5.76	113.97	118.00
25	BB	1785	A	C5-C6-N6	5.76	128.31	123.70
25	BB	2071	A	C2-N3-C4	5.76	113.48	110.60
25	BB	2246	G	N9-C1'-C2'	5.76	121.49	114.00
25	BB	2372	U	C5'-C4'-O4'	5.76	116.01	109.10
3	A1	313	A	C5-N7-C8	-5.76	101.02	103.90
3	A1	425	G	C3'-C2'-C1'	-5.76	96.89	101.50
3	A1	800	G	O5'-C5'-C4'	-5.76	100.76	111.70
3	A1	1021	A	C3'-C2'-C1'	-5.76	96.89	101.50
3	A1	1460	C	N1-C2-N3	5.76	123.23	119.20
25	BB	237	C	N1-C2-O2	5.76	122.36	118.90
25	BB	693	A	C3'-C2'-C1'	5.76	106.11	101.50
25	BB	882	G	C4-C5-N7	-5.76	108.50	110.80
25	BB	1040	A	C4'-C3'-C2'	-5.76	96.84	102.60
25	BB	1743	G	C4-C5-N7	-5.76	108.50	110.80
25	BB	2106	U	C2-N3-C4	5.76	130.46	127.00
25	BB	2456	C	C1'-O4'-C4'	-5.76	105.29	109.90
2	AM	1	U	N3-C4-C5	5.76	118.05	114.60
2	AM	18	U	O4'-C1'-C2'	-5.76	100.04	105.80
3	A1	20	U	C1'-O4'-C4'	5.76	114.50	109.90
3	A1	739	C	N1-C2-O2	5.76	122.35	118.90
3	A1	840	C	C5'-C4'-C3'	-5.76	106.79	116.00
25	BB	531	C	N1-C2-N3	5.76	123.23	119.20
25	BB	689	A	C5'-C4'-O4'	5.76	116.01	109.10
25	BB	1496	A	C4-C5-N7	5.76	113.58	110.70
33	BJ	116	LEU	CB-CG-CD2	-5.76	101.21	111.00
3	A1	103	U	N3-C2-O2	-5.75	118.17	122.20
3	A1	1400	C	N3-C2-O2	-5.75	117.87	121.90
22	AW	123	ARG	NH1-CZ-NH2	-5.75	113.07	119.40
25	BB	546	U	C5-C6-N1	-5.75	119.82	122.70
25	BB	569	U	C5'-C4'-O4'	5.75	116.01	109.10
25	BB	612	G	C4-C5-C6	-5.75	115.35	118.80
25	BB	679	C	C4'-C3'-C2'	-5.75	96.84	102.60
25	BB	850	U	N1-C2-O2	5.75	126.83	122.80
25	BB	1712	U	O4'-C1'-N1	5.75	112.80	108.20
25	BB	2448	A	C1'-O4'-C4'	-5.75	105.30	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2874	C	C4'-C3'-C2'	-5.75	96.84	102.60
1	AP	18	G	N1-C2-N2	-5.75	111.02	116.20
3	A1	121	U	P-O3'-C3'	5.75	126.60	119.70
3	A1	739	C	N3-C4-C5	5.75	124.20	121.90
3	A1	1502	A	N9-C1'-C2'	-5.75	105.67	112.00
7	AF	1	ALA	CB-CA-C	5.75	118.73	110.10
18	AS	91	SER	C-N-CA	5.75	136.09	121.70
24	BA	67	G	C4-N9-C1'	-5.75	119.02	126.50
25	BB	441	U	C4-C5-C6	5.75	123.15	119.70
25	BB	662	G	C3'-C2'-C1'	5.75	106.10	101.50
25	BB	773	U	C6-N1-C2	5.75	124.45	121.00
25	BB	1093	G	C8-N9-C1'	5.75	134.48	127.00
25	BB	1098	A	C2-N3-C4	5.75	113.48	110.60
25	BB	1542	U	N3-C4-C5	5.75	118.05	114.60
25	BB	1585	C	C1'-O4'-C4'	-5.75	105.30	109.90
25	BB	1704	C	C5-C4-N4	5.75	124.23	120.20
25	BB	1797	G	O4'-C1'-N9	5.75	112.80	108.20
25	BB	2029	G	C6-N1-C2	-5.75	121.65	125.10
32	BI	90	ALA	N-CA-CB	5.75	118.16	110.10
1	AA	68	U	N3-C2-O2	-5.75	118.17	122.20
3	A1	1493	A	O5'-P-OP1	-5.75	100.52	105.70
25	BB	344	A	C6-C5-N7	5.75	136.33	132.30
25	BB	1401	G	C5-C6-O6	5.75	132.05	128.60
25	BB	1711	A	N9-C1'-C2'	-5.75	105.67	112.00
25	BB	1888	G	C6-N1-C2	5.75	128.55	125.10
25	BB	2008	C	C4-C5-C6	-5.75	114.52	117.40
25	BB	2134	A	O4'-C1'-N9	5.75	112.80	108.20
25	BB	2424	C	N3-C4-C5	5.75	124.20	121.90
25	BB	2643	G	O4'-C4'-C3'	5.75	110.70	106.10
25	BB	2880	C	P-O3'-C3'	5.75	126.60	119.70
3	A1	459	A	N1-C2-N3	-5.75	126.42	129.30
25	BB	181	A	C3'-C2'-C1'	5.75	106.10	101.50
25	BB	532	A	O5'-P-OP2	-5.75	100.53	105.70
25	BB	567	U	C6-N1-C2	-5.75	117.55	121.00
25	BB	1588	G	O4'-C1'-N9	5.75	112.80	108.20
25	BB	2632	A	N1-C2-N3	-5.75	126.42	129.30
25	BB	2762	C	N3-C2-O2	-5.75	117.88	121.90
52	B3	93	TYR	CB-CG-CD1	-5.75	117.55	121.00
1	AA	47	U	C5'-C4'-C3'	-5.75	106.80	116.00
1	AE	75	C	C5-C4-N4	-5.75	116.17	120.20
3	A1	198	G	C2-N3-C4	5.75	114.77	111.90
3	A1	376	G	O4'-C4'-C3'	5.75	110.70	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	432	A	C2'-C3'-O3'	5.75	122.90	113.70
3	A1	487	A	C4'-C3'-C2'	-5.75	96.85	102.60
3	A1	670	G	O5'-P-OP1	-5.75	100.53	105.70
3	A1	884	U	C5-C4-O4	-5.75	122.45	125.90
3	A1	936	C	C2-N1-C1'	-5.75	112.48	118.80
3	A1	1398	A	O5'-C5'-C4'	-5.75	100.78	111.70
3	A1	1515	G	C8-N9-C4	5.75	108.70	106.40
3	A1	1530	G	C6-N1-C2	-5.75	121.65	125.10
25	BB	98	G	C4-C5-N7	5.75	113.10	110.80
25	BB	952	G	C6-N1-C2	-5.75	121.65	125.10
25	BB	1258	U	C5'-C4'-O4'	5.75	116.00	109.10
25	BB	1294	U	O4'-C1'-N1	5.75	112.80	108.20
25	BB	1637	A	C2-N3-C4	-5.75	107.73	110.60
25	BB	1880	U	N1-C2-N3	5.75	118.35	114.90
25	BB	2512	C	N1-C2-N3	5.75	123.22	119.20
3	A1	235	C	N3-C2-O2	-5.75	117.88	121.90
3	A1	649	A	C4'-C3'-C2'	-5.75	96.85	102.60
3	A1	914	A	N9-C4-C5	-5.75	103.50	105.80
3	A1	1031	C	C1'-O4'-C4'	-5.75	105.30	109.90
3	A1	1470	U	C6-N1-C2	-5.75	117.55	121.00
3	A1	1505	G	O4'-C1'-N9	5.75	112.80	108.20
25	BB	155	A	N3-C4-C5	5.75	130.82	126.80
25	BB	672	C	N3-C4-N4	-5.75	113.98	118.00
25	BB	1215	G	C3'-C2'-C1'	5.75	106.10	101.50
25	BB	1313	U	N1-C2-O2	5.75	126.82	122.80
25	BB	1919	A	C2'-C3'-O3'	5.75	122.89	113.70
25	BB	2089	C	C1'-O4'-C4'	-5.75	105.30	109.90
25	BB	2100	G	C5-C6-O6	-5.75	125.15	128.60
29	BF	54	THR	N-CA-CB	5.75	121.22	110.30
3	A1	191	G	C2-N3-C4	-5.75	109.03	111.90
3	A1	666	G	C4-C5-C6	-5.75	115.35	118.80
3	A1	1343	G	C4-C5-N7	-5.75	108.50	110.80
25	BB	867	C	C5-C4-N4	5.75	124.22	120.20
25	BB	1052	C	N1-C2-O2	5.75	122.35	118.90
25	BB	1703	G	C4-C5-C6	-5.75	115.35	118.80
32	BI	102	ARG	NE-CZ-NH2	-5.75	117.43	120.30
1	AA	70	C	C2'-C3'-O3'	5.74	122.89	113.70
3	A1	257	G	C1'-O4'-C4'	-5.74	105.31	109.90
3	A1	294	U	N1-C2-O2	5.74	126.82	122.80
3	A1	476	U	N3-C4-O4	5.74	123.42	119.40
3	A1	480	U	C6-N1-C2	-5.74	117.55	121.00
3	A1	610	U	C3'-C2'-C1'	5.74	106.09	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	794	A	C1'-O4'-C4'	-5.74	105.31	109.90
3	A1	826	C	N3-C4-N4	-5.74	113.98	118.00
3	A1	911	U	P-O3'-C3'	5.74	126.59	119.70
3	A1	987	G	C5-C6-N1	5.74	114.37	111.50
3	A1	1440	U	C2-N3-C4	-5.74	123.55	127.00
25	BB	630	G	C8-N9-C4	-5.74	104.10	106.40
25	BB	912	C	C5'-C4'-C3'	-5.74	106.81	116.00
25	BB	1069	A	O4'-C1'-C2'	-5.74	100.06	105.80
25	BB	1377	G	N3-C4-N9	-5.74	122.55	126.00
25	BB	1684	G	C1'-O4'-C4'	-5.74	105.31	109.90
25	BB	1982	U	C5'-C4'-C3'	-5.74	106.81	116.00
25	BB	2049	G	C4-C5-C6	-5.74	115.35	118.80
25	BB	2286	G	O4'-C4'-C3'	5.74	110.69	106.10
25	BB	2413	G	N9-C4-C5	5.74	107.70	105.40
25	BB	2476	A	C3'-C2'-C1'	5.74	106.09	101.50
25	BB	2595	G	N1-C2-N2	-5.74	111.03	116.20
25	BB	2865	U	O4'-C1'-C2'	5.74	112.77	107.60
25	BB	2869	G	N1-C2-N2	-5.74	111.03	116.20
3	A1	311	C	C6-N1-C2	-5.74	118.00	120.30
3	A1	713	G	C3'-C2'-C1'	-5.74	96.91	101.50
3	A1	747	A	C4-C5-N7	-5.74	107.83	110.70
12	AK	40	PRO	N-CA-CB	5.74	110.19	103.30
25	BB	450	G	N3-C4-C5	-5.74	125.73	128.60
25	BB	617	G	C4-C5-N7	-5.74	108.50	110.80
25	BB	1003	G	O3'-P-O5'	5.74	114.91	104.00
25	BB	2194	U	C5-C4-O4	-5.74	122.45	125.90
25	BB	2297	A	C6-N1-C2	5.74	122.05	118.60
3	A1	519	C	N3-C4-C5	-5.74	119.60	121.90
3	A1	640	A	N9-C4-C5	-5.74	103.50	105.80
3	A1	1354	U	C4-C5-C6	5.74	123.14	119.70
3	A1	1416	G	N1-C2-N2	-5.74	111.03	116.20
3	A1	1510	C	C2-N3-C4	-5.74	117.03	119.90
25	BB	60	G	C5-C6-N1	5.74	114.37	111.50
25	BB	901	C	N3-C2-O2	-5.74	117.88	121.90
25	BB	1059	G	N1-C6-O6	-5.74	116.46	119.90
25	BB	1803	A	O5'-C5'-C4'	-5.74	100.79	111.70
25	BB	1928	A	N9-C4-C5	-5.74	103.50	105.80
25	BB	2121	G	C4-C5-N7	5.74	113.10	110.80
25	BB	2139	U	N1-C2-N3	5.74	118.34	114.90
25	BB	2283	C	C5-C4-N4	5.74	124.22	120.20
25	BB	2421	G	C2-N3-C4	5.74	114.77	111.90
25	BB	2491	U	N1-C2-N3	5.74	118.34	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2539	C	C2-N1-C1'	5.74	125.11	118.80
25	BB	2585	U	C5'-C4'-C3'	-5.74	106.81	116.00
25	BB	2692	G	O4'-C1'-C2'	5.74	112.77	107.60
25	BB	2747	G	O4'-C4'-C3'	5.74	110.69	106.10
1	AA	35	A	O4'-C4'-C3'	5.74	110.69	106.10
3	A1	266	G	N7-C8-N9	5.74	115.97	113.10
3	A1	432	A	C5-C6-N6	5.74	128.29	123.70
3	A1	781	A	C5'-C4'-O4'	5.74	115.99	109.10
19	AT	4	TYR	CG-CD2-CE2	-5.74	116.71	121.30
25	BB	239	C	C4-C5-C6	5.74	120.27	117.40
25	BB	271	G	N3-C2-N2	-5.74	115.88	119.90
25	BB	1154	G	C4-C5-C6	-5.74	115.36	118.80
25	BB	1263	U	C6-N1-C2	5.74	124.44	121.00
25	BB	1347	A	N7-C8-N9	5.74	116.67	113.80
25	BB	1372	U	N3-C4-C5	5.74	118.04	114.60
25	BB	1417	C	O4'-C1'-N1	5.74	112.79	108.20
25	BB	1638	C	N3-C2-O2	-5.74	117.88	121.90
25	BB	2287	A	C5-C6-N6	5.74	128.29	123.70
25	BB	2895	G	N1-C6-O6	-5.74	116.46	119.90
1	AP	8	U	C4-C5-C6	5.74	123.14	119.70
3	A1	376	G	C3'-C2'-C1'	5.74	106.09	101.50
3	A1	1056	U	C2-N3-C4	-5.74	123.56	127.00
25	BB	658	U	C5-C6-N1	-5.74	119.83	122.70
25	BB	716	A	C5-C6-N1	5.74	120.57	117.70
25	BB	1013	C	P-O3'-C3'	5.74	126.58	119.70
25	BB	1268	A	C1'-O4'-C4'	-5.74	105.31	109.90
25	BB	1698	A	N9-C4-C5	5.74	108.09	105.80
1	AE	7	U	C1'-O4'-C4'	-5.74	105.31	109.90
3	A1	69	G	O4'-C1'-N9	5.74	112.79	108.20
3	A1	71	A	C5-N7-C8	-5.74	101.03	103.90
3	A1	119	A	N9-C1'-C2'	5.74	121.46	114.00
3	A1	533	A	C4-C5-C6	-5.74	114.13	117.00
3	A1	754	C	C4'-C3'-C2'	-5.74	96.86	102.60
3	A1	877	G	C8-N9-C4	-5.74	104.11	106.40
3	A1	1468	A	O4'-C1'-N9	-5.74	103.61	108.20
3	A1	1518	A	C4-C5-C6	-5.74	114.13	117.00
24	BA	48	U	N3-C2-O2	-5.74	118.19	122.20
25	BB	140	C	C4'-C3'-C2'	-5.74	96.86	102.60
25	BB	871	U	C5-C4-O4	5.74	129.34	125.90
25	BB	1069	A	C4'-C3'-O3'	-5.74	97.36	109.40
25	BB	1073	A	O4'-C4'-C3'	5.74	110.69	106.10
25	BB	1908	C	C5'-C4'-C3'	-5.74	106.82	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2267	A	N9-C4-C5	-5.74	103.51	105.80
25	BB	2392	A	P-O3'-C3'	5.74	126.58	119.70
25	BB	2498	C	C5'-C4'-C3'	-5.74	106.82	116.00
25	BB	2729	G	C6-C5-N7	5.74	133.84	130.40
3	A1	43	C	C5'-C4'-C3'	-5.73	106.83	116.00
25	BB	2252	G	C5'-C4'-O4'	5.73	115.98	109.10
25	BB	2852	G	N1-C2-N2	5.73	121.36	116.20
36	BM	62	VAL	CA-CB-CG1	5.73	119.50	110.90
1	AP	36	A	C6-C5-N7	5.73	136.31	132.30
1	AE	58	A	C5-N7-C8	-5.73	101.03	103.90
3	A1	206	C	C5'-C4'-O4'	-5.73	102.22	109.10
3	A1	899	C	C2-N3-C4	-5.73	117.03	119.90
23	AX	74	VAL	CA-CB-CG1	5.73	119.50	110.90
25	BB	1199	U	O4'-C4'-C3'	5.73	110.69	106.10
25	BB	1250	G	O5'-P-OP2	-5.73	100.54	105.70
25	BB	1515	A	C2-N3-C4	5.73	113.47	110.60
25	BB	2107	G	C4-C5-N7	-5.73	108.51	110.80
25	BB	2850	A	O4'-C1'-N9	5.73	112.79	108.20
28	BE	77	ILE	O-C-N	-5.73	113.53	122.70
37	BN	28	PRO	CA-N-CD	-5.73	103.47	111.50
3	A1	63	C	C2-N3-C4	-5.73	117.03	119.90
3	A1	279	A	N3-C4-C5	-5.73	122.79	126.80
3	A1	292	G	C5-N7-C8	-5.73	101.44	104.30
3	A1	989	U	O4'-C1'-N1	5.73	112.78	108.20
3	A1	1386	G	C4'-C3'-C2'	-5.73	96.87	102.60
5	AC	88	PRO	O-C-N	-5.73	113.46	123.20
24	BA	32	U	C5'-C4'-C3'	-5.73	106.83	116.00
25	BB	875	G	N1-C6-O6	-5.73	116.46	119.90
25	BB	2253	G	O4'-C1'-C2'	5.73	112.76	107.60
25	BB	2340	A	C8-N9-C4	-5.73	103.51	105.80
25	BB	2478	A	C5'-C4'-C3'	-5.73	106.83	116.00
25	BB	2539	C	N1-C2-N3	5.73	123.21	119.20
25	BB	2829	A	C6-N1-C2	-5.73	115.16	118.60
3	A1	823	C	N3-C4-N4	-5.73	113.99	118.00
3	A1	1018	G	C5-N7-C8	-5.73	101.44	104.30
3	A1	1036	A	C4-C5-N7	-5.73	107.83	110.70
3	A1	1221	G	C4-C5-N7	-5.73	108.51	110.80
25	BB	118	A	C2-N3-C4	5.73	113.46	110.60
25	BB	730	A	N9-C4-C5	-5.73	103.51	105.80
25	BB	1202	G	N3-C4-N9	5.73	129.44	126.00
25	BB	1237	A	C2-N3-C4	5.73	113.47	110.60
25	BB	1708	C	N1-C2-N3	5.73	123.21	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1809	A	C6-N1-C2	-5.73	115.16	118.60
25	BB	1959	G	O4'-C4'-C3'	5.73	110.68	106.10
25	BB	2400	G	N1-C2-N2	5.73	121.36	116.20
28	BE	141	LYS	CA-CB-CG	5.73	126.00	113.40
35	BL	11	ARG	CB-CA-C	5.73	121.86	110.40
1	AP	48	C	N3-C4-N4	-5.73	113.99	118.00
3	A1	282	A	C5-C6-N6	5.73	128.28	123.70
3	A1	393	A	C4-C5-C6	-5.73	114.14	117.00
3	A1	428	G	C5-N7-C8	-5.73	101.44	104.30
3	A1	455	G	N3-C4-N9	5.73	129.44	126.00
3	A1	711	G	N7-C8-N9	-5.73	110.24	113.10
3	A1	726	C	C2-N3-C4	-5.73	117.04	119.90
3	A1	779	C	C2-N1-C1'	5.73	125.10	118.80
3	A1	1113	C	C5-C6-N1	-5.73	118.14	121.00
3	A1	1363	A	P-O3'-C3'	5.73	126.57	119.70
3	A1	1478	U	N3-C4-C5	-5.73	111.16	114.60
24	BA	97	C	N3-C2-O2	-5.73	117.89	121.90
25	BB	37	C	P-O5'-C5'	5.73	130.06	120.90
25	BB	145	C	C5-C6-N1	-5.73	118.14	121.00
25	BB	463	G	N3-C4-N9	5.73	129.44	126.00
25	BB	667	U	N3-C2-O2	-5.73	118.19	122.20
25	BB	873	C	C5-C4-N4	5.73	124.21	120.20
25	BB	1279	G	C5'-C4'-O4'	5.73	115.97	109.10
25	BB	2278	A	C5'-C4'-O4'	5.73	115.97	109.10
25	BB	2529	G	C3'-C2'-C1'	5.73	106.08	101.50
25	BB	2791	G	C5-N7-C8	-5.73	101.44	104.30
3	A1	191	G	C4-C5-C6	-5.73	115.36	118.80
3	A1	1080	A	N3-C4-N9	-5.73	122.82	127.40
3	A1	1130	A	N3-C4-C5	-5.73	122.79	126.80
3	A1	1316	G	C4-C5-C6	-5.73	115.36	118.80
25	BB	166	U	C1'-O4'-C4'	-5.73	105.32	109.90
25	BB	681	G	C5-C6-O6	5.73	132.04	128.60
25	BB	703	U	N3-C4-O4	-5.73	115.39	119.40
25	BB	1977	A	N1-C2-N3	-5.73	126.44	129.30
1	AA	37	G	C8-N9-C1'	5.72	134.44	127.00
3	A1	43	C	N1-C2-O2	5.72	122.33	118.90
3	A1	298	A	C5'-C4'-O4'	5.72	115.97	109.10
3	A1	423	G	N3-C2-N2	-5.72	115.89	119.90
3	A1	602	A	N3-C4-N9	-5.72	122.82	127.40
3	A1	659	U	N3-C4-O4	5.72	123.41	119.40
3	A1	1429	A	O4'-C1'-N9	-5.72	103.62	108.20
25	BB	39	G	O4'-C1'-N9	-5.72	103.62	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	214	G	O4'-C1'-N9	5.72	112.78	108.20
25	BB	245	G	C6-C5-N7	5.72	133.84	130.40
25	BB	585	G	N3-C4-C5	-5.72	125.74	128.60
25	BB	743	A	N7-C8-N9	5.72	116.66	113.80
25	BB	834	G	N9-C4-C5	5.72	107.69	105.40
25	BB	856	G	N9-C4-C5	5.72	107.69	105.40
25	BB	1368	G	C5'-C4'-C3'	-5.72	106.84	116.00
25	BB	1539	U	O4'-C1'-N1	5.72	112.78	108.20
25	BB	1656	C	N3-C4-N4	-5.72	113.99	118.00
25	BB	2202	U	N3-C2-O2	-5.72	118.19	122.20
25	BB	2278	A	C3'-C2'-C1'	-5.72	96.92	101.50
25	BB	2336	A	C8-N9-C4	5.72	108.09	105.80
25	BB	2550	G	C4-C5-C6	-5.72	115.37	118.80
25	BB	2612	C	C1'-O4'-C4'	5.72	114.48	109.90
1	AA	65	G	C3'-C2'-C1'	-5.72	96.92	101.50
1	AE	4	G	C8-N9-C4	-5.72	104.11	106.40
3	A1	32	A	C6-C5-N7	5.72	136.31	132.30
3	A1	112	G	C8-N9-C1'	5.72	134.44	127.00
3	A1	259	G	C6-C5-N7	5.72	133.83	130.40
3	A1	844	G	C6-N1-C2	5.72	128.53	125.10
18	AS	139	THR	N-CA-CB	5.72	121.17	110.30
25	BB	111	A	N3-C4-C5	5.72	130.81	126.80
25	BB	123	G	C5-N7-C8	-5.72	101.44	104.30
25	BB	250	G	C6-C5-N7	5.72	133.83	130.40
25	BB	323	C	O5'-P-OP1	-5.72	100.55	105.70
25	BB	940	G	C5'-C4'-O4'	5.72	115.97	109.10
25	BB	1025	G	C4-C5-N7	5.72	113.09	110.80
25	BB	1071	G	N3-C2-N2	-5.72	115.89	119.90
25	BB	1182	G	C1'-O4'-C4'	-5.72	105.32	109.90
25	BB	1188	U	N1-C2-O2	5.72	126.81	122.80
25	BB	1593	A	C5-N7-C8	-5.72	101.04	103.90
25	BB	1910	G	O4'-C1'-N9	5.72	112.78	108.20
25	BB	2082	A	C5-C6-N1	5.72	120.56	117.70
25	BB	2812	G	N1-C2-N3	5.72	127.33	123.90
27	BD	25	LEU	CB-CG-CD2	-5.72	101.27	111.00
37	BN	216	ARG	NH1-CZ-NH2	-5.72	113.11	119.40
1	AE	62	A	C5'-C4'-O4'	5.72	115.97	109.10
3	A1	148	G	N3-C2-N2	-5.72	115.89	119.90
3	A1	568	G	C2-N3-C4	5.72	114.76	111.90
3	A1	698	G	N9-C1'-C2'	5.72	121.44	114.00
25	BB	609	A	N3-C4-C5	-5.72	122.80	126.80
25	BB	777	G	C1'-O4'-C4'	-5.72	105.32	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1038	G	O4'-C1'-N9	5.72	112.78	108.20
25	BB	1193	G	C1'-O4'-C4'	-5.72	105.32	109.90
25	BB	1353	A	C4'-C3'-C2'	-5.72	96.88	102.60
25	BB	1421	G	N1-C6-O6	-5.72	116.47	119.90
25	BB	1509	A	C6-N1-C2	-5.72	115.17	118.60
25	BB	2238	G	C6-N1-C2	-5.72	121.67	125.10
25	BB	2871	U	O4'-C1'-C2'	-5.72	100.08	105.80
3	A1	225	C	N1-C2-N3	5.72	123.20	119.20
3	A1	631	C	O4'-C1'-N1	5.72	112.78	108.20
3	A1	1182	G	N9-C4-C5	5.72	107.69	105.40
3	A1	1514	G	N3-C2-N2	-5.72	115.90	119.90
25	BB	16	C	N3-C4-N4	-5.72	114.00	118.00
25	BB	109	C	N1-C2-N3	5.72	123.20	119.20
25	BB	167	A	C8-N9-C4	5.72	108.09	105.80
25	BB	1309	G	C5'-C4'-C3'	-5.72	106.85	116.00
25	BB	1502	A	N7-C8-N9	-5.72	110.94	113.80
25	BB	2192	U	C5'-C4'-C3'	-5.72	106.85	116.00
25	BB	2308	G	O4'-C1'-C2'	-5.72	100.08	105.80
25	BB	2524	G	N7-C8-N9	-5.72	110.24	113.10
25	BB	2544	G	C8-N9-C4	-5.72	104.11	106.40
25	BB	2621	G	O4'-C1'-C2'	-5.72	100.08	105.80
25	BB	2742	G	O3'-P-O5'	5.72	114.87	104.00
25	BB	2846	G	N7-C8-N9	-5.72	110.24	113.10
1	AA	41	U	C5-C6-N1	5.72	125.56	122.70
3	A1	171	A	C3'-C2'-C1'	-5.72	96.92	101.50
3	A1	255	G	C2-N3-C4	5.72	114.76	111.90
25	BB	827	U	O4'-C1'-N1	5.72	112.77	108.20
25	BB	1408	G	C6-N1-C2	-5.72	121.67	125.10
3	A1	147	G	N3-C4-N9	5.72	129.43	126.00
3	A1	454	G	C2-N3-C4	-5.72	109.04	111.90
3	A1	658	C	N3-C4-C5	-5.72	119.61	121.90
3	A1	868	C	C4'-C3'-C2'	-5.72	96.88	102.60
3	A1	1349	A	C5'-C4'-C3'	-5.72	106.86	116.00
15	AO	87	ARG	NH1-CZ-NH2	-5.72	113.11	119.40
25	BB	411	G	C5-C6-N1	5.72	114.36	111.50
25	BB	872	U	N1-C2-O2	5.72	126.80	122.80
25	BB	1425	G	C8-N9-C4	-5.72	104.11	106.40
25	BB	1986	C	N3-C4-C5	5.72	124.19	121.90
25	BB	2357	G	N9-C4-C5	5.72	107.69	105.40
25	BB	2466	C	C2-N3-C4	-5.72	117.04	119.90
25	BB	2664	G	P-O3'-C3'	5.72	126.56	119.70
47	BX	8	LYS	CA-CB-CG	-5.72	100.82	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AE	61	C	N3-C4-N4	5.71	122.00	118.00
3	A1	130	A	C4-C5-N7	-5.71	107.84	110.70
3	A1	233	C	C4'-C3'-C2'	-5.71	96.89	102.60
3	A1	236	A	O4'-C1'-N9	5.71	112.77	108.20
3	A1	1070	U	N3-C2-O2	-5.71	118.20	122.20
3	A1	1390	U	N1-C2-O2	5.71	126.80	122.80
24	BA	76	G	C8-N9-C4	-5.71	104.11	106.40
25	BB	18	U	N1-C2-N3	5.71	118.33	114.90
25	BB	413	C	C5-C4-N4	5.71	124.20	120.20
25	BB	606	U	C4'-C3'-C2'	-5.71	96.89	102.60
25	BB	855	G	N3-C2-N2	-5.71	115.90	119.90
25	BB	939	G	O4'-C1'-N9	-5.71	103.63	108.20
25	BB	2202	U	C6-N1-C2	-5.71	117.57	121.00
25	BB	2521	C	N1-C2-O2	5.71	122.33	118.90
25	BB	2750	A	O4'-C1'-C2'	5.71	112.74	107.60
25	BB	2774	C	N1-C1'-C2'	5.71	121.43	114.00
1	AA	31	A	C5-C6-N1	5.71	120.56	117.70
3	A1	1021	A	N9-C4-C5	-5.71	103.52	105.80
3	A1	1237	C	N3-C2-O2	-5.71	117.90	121.90
24	BA	87	U	C6-N1-C2	-5.71	117.57	121.00
25	BB	31	C	C1'-O4'-C4'	-5.71	105.33	109.90
25	BB	838	C	O5'-P-OP1	-5.71	100.56	105.70
25	BB	1361	G	C2'-C3'-O3'	5.71	122.84	113.70
25	BB	2381	A	C4'-C3'-C2'	-5.71	96.89	102.60
1	AE	7	U	N1-C2-N3	5.71	118.33	114.90
3	A1	17	U	C2-N3-C4	-5.71	123.57	127.00
3	A1	590	U	C1'-O4'-C4'	-5.71	105.33	109.90
3	A1	618	C	C3'-C2'-C1'	5.71	106.07	101.50
3	A1	886	G	N3-C2-N2	-5.71	115.90	119.90
3	A1	1480	A	C8-N9-C4	5.71	108.08	105.80
25	BB	120	U	C4-C5-C6	5.71	123.13	119.70
25	BB	395	U	N3-C4-C5	5.71	118.03	114.60
25	BB	459	U	N3-C4-C5	-5.71	111.17	114.60
25	BB	544	C	N3-C2-O2	-5.71	117.90	121.90
25	BB	635	C	N1-C2-N3	5.71	123.20	119.20
25	BB	852	U	N1-C2-N3	5.71	118.33	114.90
25	BB	904	G	O4'-C4'-C3'	-5.71	98.29	104.00
25	BB	1157	G	N1-C2-N3	5.71	127.33	123.90
25	BB	1324	G	C4-C5-C6	-5.71	115.37	118.80
25	BB	1703	G	P-O3'-C3'	5.71	126.56	119.70
25	BB	2194	U	C4'-C3'-C2'	-5.71	96.89	102.60
25	BB	2259	U	O5'-C5'-C4'	-5.71	100.85	111.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2826	A	P-O3'-C3'	5.71	126.55	119.70
52	B3	143	VAL	CA-CB-CG2	5.71	119.47	110.90
3	A1	323	U	N3-C2-O2	-5.71	118.20	122.20
13	AL	24	SER	N-CA-CB	5.71	119.06	110.50
24	BA	74	U	C6-N1-C2	-5.71	117.57	121.00
25	BB	491	G	C2-N3-C4	5.71	114.75	111.90
25	BB	614	A	C4'-C3'-C2'	-5.71	96.89	102.60
25	BB	1016	G	C1'-O4'-C4'	-5.71	105.33	109.90
25	BB	1624	U	C5'-C4'-C3'	-5.71	106.86	116.00
25	BB	1723	G	N3-C2-N2	5.71	123.90	119.90
25	BB	2505	G	N3-C4-C5	-5.71	125.75	128.60
1	AA	11	C	N3-C4-C5	5.71	124.18	121.90
3	A1	173	U	C3'-C2'-C1'	-5.71	96.93	101.50
3	A1	413	G	C2'-C3'-O3'	-5.71	96.94	109.50
3	A1	548	G	C3'-C2'-C1'	-5.71	96.93	101.50
3	A1	665	A	C4-C5-N7	-5.71	107.85	110.70
3	A1	757	U	O4'-C1'-C2'	5.71	112.74	107.60
3	A1	776	G	C1'-O4'-C4'	-5.71	105.33	109.90
3	A1	1087	G	C4-C5-C6	-5.71	115.38	118.80
3	A1	1141	C	O3'-P-O5'	-5.71	93.16	104.00
25	BB	332	A	N3-C4-C5	5.71	130.80	126.80
25	BB	349	U	N1-C2-N3	5.71	118.33	114.90
25	BB	912	C	C5'-C4'-O4'	-5.71	102.25	109.10
25	BB	1366	A	C8-N9-C4	-5.71	103.52	105.80
25	BB	1522	A	N9-C1'-C2'	5.71	121.42	114.00
25	BB	2242	G	O4'-C1'-N9	-5.71	103.63	108.20
25	BB	2345	G	C5-C6-N1	5.71	114.35	111.50
25	BB	2395	C	N3-C4-C5	5.71	124.18	121.90
25	BB	2455	G	O4'-C1'-C2'	-5.71	100.09	105.80
25	BB	2592	G	C1'-O4'-C4'	-5.71	105.33	109.90
3	A1	73	C	C6-N1-C2	-5.71	118.02	120.30
3	A1	1209	C	C5-C4-N4	5.71	124.19	120.20
25	BB	22	C	O4'-C1'-N1	5.71	112.77	108.20
25	BB	28	A	N7-C8-N9	5.71	116.65	113.80
25	BB	30	G	N9-C1'-C2'	-5.71	105.72	112.00
25	BB	754	U	O4'-C1'-N1	5.71	112.77	108.20
25	BB	1048	A	C4-C5-C6	-5.71	114.15	117.00
25	BB	1356	G	C5-N7-C8	-5.71	101.45	104.30
25	BB	1550	C	C5'-C4'-C3'	-5.71	106.87	116.00
25	BB	2074	U	N1-C2-N3	5.71	118.32	114.90
25	BB	2149	U	C2-N3-C4	-5.71	123.58	127.00
25	BB	2740	A	N1-C2-N3	5.71	132.15	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2769	U	N1-C2-O2	5.71	126.79	122.80
3	A1	468	A	O4'-C1'-N9	5.71	112.76	108.20
3	A1	1454	G	N1-C2-N3	-5.71	120.48	123.90
25	BB	268	C	C6-N1-C1'	-5.71	113.95	120.80
25	BB	755	U	N3-C4-O4	-5.71	115.41	119.40
25	BB	1663	G	N9-C1'-C2'	-5.71	105.72	112.00
25	BB	1726	C	C5'-C4'-O4'	5.71	115.95	109.10
25	BB	1841	U	C2-N3-C4	-5.71	123.58	127.00
25	BB	2214	C	N1-C2-O2	5.71	122.32	118.90
25	BB	2715	C	O5'-P-OP2	-5.71	100.57	105.70
1	AA	58	A	N9-C4-C5	5.70	108.08	105.80
1	AP	48	C	C6-N1-C2	-5.70	118.02	120.30
1	AE	2	C	C5-C4-N4	-5.70	116.21	120.20
1	AE	17	U	P-O3'-C3'	-5.70	112.86	119.70
3	A1	6	G	N9-C1'-C2'	5.70	121.41	114.00
3	A1	148	G	C1'-O4'-C4'	-5.70	105.34	109.90
3	A1	451	A	O4'-C1'-C2'	5.70	112.73	107.60
3	A1	628	G	C6-N1-C2	-5.70	121.68	125.10
3	A1	795	C	OP2-P-O3'	5.70	117.75	105.20
3	A1	965	U	C1'-O4'-C4'	-5.70	105.34	109.90
3	A1	1055	A	N9-C4-C5	5.70	108.08	105.80
3	A1	1084	G	C5'-C4'-O4'	5.70	115.94	109.10
3	A1	1456	A	C6-N1-C2	-5.70	115.18	118.60
3	A1	1529	G	N1-C2-N3	-5.70	120.48	123.90
19	AT	4	TYR	CD1-CE1-CZ	-5.70	114.67	119.80
24	BA	51	G	C6-N1-C2	-5.70	121.68	125.10
25	BB	43	G	C6-N1-C2	-5.70	121.68	125.10
25	BB	587	C	O4'-C1'-C2'	-5.70	100.10	105.80
25	BB	904	G	C5'-C4'-O4'	5.70	115.94	109.10
25	BB	919	U	C5'-C4'-C3'	-5.70	106.87	116.00
25	BB	975	A	C5-C6-N6	5.70	128.26	123.70
25	BB	1036	G	C1'-O4'-C4'	-5.70	105.34	109.90
25	BB	1420	A	C4'-C3'-C2'	-5.70	96.90	102.60
25	BB	1593	A	C5'-C4'-C3'	-5.70	106.87	116.00
25	BB	1794	A	O4'-C4'-C3'	5.70	110.66	106.10
25	BB	1973	G	C4-C5-N7	-5.70	108.52	110.80
25	BB	2181	U	N3-C4-O4	5.70	123.39	119.40
25	BB	2203	U	C6-N1-C2	5.70	124.42	121.00
25	BB	2303	G	C5-N7-C8	5.70	107.15	104.30
25	BB	2391	G	N1-C6-O6	-5.70	116.48	119.90
25	BB	2538	C	C5'-C4'-O4'	5.70	115.94	109.10
3	A1	685	G	C4'-C3'-C2'	-5.70	96.90	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	826	U	C5-C4-O4	5.70	129.32	125.90
25	BB	1206	G	P-O3'-C3'	5.70	126.54	119.70
25	BB	1469	A	C2'-C3'-O3'	5.70	122.82	113.70
25	BB	1693	U	N3-C4-O4	5.70	123.39	119.40
25	BB	1868	C	O4'-C1'-C2'	-5.70	100.10	105.80
25	BB	2343	U	N3-C2-O2	-5.70	118.21	122.20
25	BB	2734	A	C8-N9-C4	-5.70	103.52	105.80
2	AM	4	U	OP1-P-O3'	5.70	117.74	105.20
3	A1	609	A	C5-C6-N6	5.70	128.26	123.70
3	A1	957	U	N3-C2-O2	-5.70	118.21	122.20
3	A1	1274	A	C8-N9-C4	-5.70	103.52	105.80
24	BA	6	G	C4-C5-C6	-5.70	115.38	118.80
25	BB	23	G	C8-N9-C4	-5.70	104.12	106.40
25	BB	122	G	N3-C4-N9	5.70	129.42	126.00
25	BB	1035	U	C3'-C2'-C1'	-5.70	96.94	101.50
25	BB	1133	A	C4'-C3'-C2'	-5.70	96.90	102.60
25	BB	1141	U	N3-C4-O4	-5.70	115.41	119.40
25	BB	1185	G	N1-C6-O6	-5.70	116.48	119.90
25	BB	1469	A	C4-C5-C6	-5.70	114.15	117.00
25	BB	1603	A	C5-N7-C8	-5.70	101.05	103.90
25	BB	2129	C	N3-C4-N4	-5.70	114.01	118.00
25	BB	2341	G	C5-N7-C8	-5.70	101.45	104.30
37	BN	231	HIS	C-N-CA	5.70	134.27	122.30
3	A1	13	U	C2-N3-C4	5.70	130.42	127.00
3	A1	31	G	N9-C1'-C2'	-5.70	105.73	112.00
3	A1	69	G	C5-N7-C8	-5.70	101.45	104.30
3	A1	419	C	C5'-C4'-O4'	5.70	115.94	109.10
3	A1	604	G	C4'-C3'-C2'	-5.70	96.90	102.60
9	AH	88	ARG	NE-CZ-NH1	5.70	123.15	120.30
25	BB	137	U	C4-C5-C6	-5.70	116.28	119.70
25	BB	451	U	N1-C2-N3	5.70	118.32	114.90
25	BB	888	C	C5'-C4'-O4'	5.70	115.94	109.10
25	BB	1547	C	N1-C2-N3	5.70	123.19	119.20
25	BB	1772	A	C5-C6-N6	5.70	128.26	123.70
25	BB	1976	U	C6-N1-C2	5.70	124.42	121.00
25	BB	2115	G	C5-C6-N1	5.70	114.35	111.50
25	BB	2167	U	N3-C4-C5	5.70	118.02	114.60
25	BB	2178	C	C5'-C4'-O4'	-5.70	102.26	109.10
25	BB	2284	A	O5'-C5'-C4'	-5.70	100.87	111.70
25	BB	2310	C	C2-N3-C4	-5.70	117.05	119.90
25	BB	2604	U	N1-C2-N3	5.70	118.32	114.90
25	BB	2675	A	C5'-C4'-C3'	-5.70	106.88	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2893	A	O4'-C4'-C3'	5.70	110.66	106.10
31	BH	81	ARG	CD-NE-CZ	5.70	131.58	123.60
3	A1	44	A	O5'-C5'-C4'	-5.70	100.88	111.70
3	A1	124	C	C1'-O4'-C4'	-5.70	105.34	109.90
3	A1	1243	C	C4-C5-C6	5.70	120.25	117.40
24	BA	28	C	C4-C5-C6	5.70	120.25	117.40
25	BB	239	C	C5-C4-N4	5.70	124.19	120.20
25	BB	536	G	C6-C5-N7	5.70	133.82	130.40
25	BB	816	C	C4'-C3'-C2'	-5.70	96.90	102.60
25	BB	1088	A	C6-C5-N7	5.70	136.29	132.30
25	BB	1748	C	C5-C4-N4	-5.70	116.21	120.20
25	BB	2448	A	C2-N3-C4	5.70	113.45	110.60
1	AP	58	A	C4-C5-N7	5.70	113.55	110.70
3	A1	472	U	O5'-P-OP1	5.70	117.53	110.70
3	A1	783	C	N3-C4-N4	5.70	121.99	118.00
3	A1	1042	A	C6-C5-N7	5.70	136.29	132.30
3	A1	1143	G	C4'-C3'-C2'	-5.70	96.91	102.60
3	A1	1522	U	N1-C2-O2	5.70	126.79	122.80
25	BB	10	A	P-O3'-C3'	5.70	126.53	119.70
25	BB	352	A	O4'-C1'-N9	-5.70	103.64	108.20
25	BB	370	G	N9-C1'-C2'	5.70	121.40	114.00
25	BB	638	G	O4'-C1'-N9	-5.70	103.64	108.20
25	BB	834	G	N9-C1'-C2'	5.70	121.41	114.00
25	BB	849	A	C5'-C4'-C3'	-5.70	106.89	116.00
25	BB	1106	G	C1'-O4'-C4'	-5.70	105.34	109.90
25	BB	1689	A	N9-C4-C5	-5.70	103.52	105.80
25	BB	2228	G	N1-C6-O6	-5.70	116.48	119.90
25	BB	2525	G	N9-C4-C5	-5.70	103.12	105.40
25	BB	2623	G	C4-C5-C6	-5.70	115.38	118.80
25	BB	2672	U	N3-C4-O4	-5.70	115.41	119.40
1	AP	30	G	N1-C2-N3	5.69	127.32	123.90
1	AP	58	A	C5-C6-N6	5.69	128.25	123.70
1	AP	74	C	C6-N1-C2	-5.69	118.02	120.30
3	A1	634	C	O4'-C1'-C2'	5.69	112.72	107.60
3	A1	1162	C	C5'-C4'-O4'	5.69	115.93	109.10
8	AG	95	LEU	CB-CG-CD2	-5.69	101.32	111.00
25	BB	182	A	C6-C5-N7	5.69	136.29	132.30
25	BB	1270	C	C6-N1-C2	-5.69	118.02	120.30
25	BB	1792	G	N3-C2-N2	-5.69	115.91	119.90
25	BB	1828	G	C6-C5-N7	5.69	133.82	130.40
25	BB	2126	A	C5'-C4'-O4'	5.69	115.93	109.10
25	BB	2419	U	C5-C6-N1	-5.69	119.85	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2768	U	C1'-O4'-C4'	-5.69	105.34	109.90
1	AA	11	C	C2'-C3'-O3'	5.69	122.81	113.70
3	A1	206	C	C4-C5-C6	5.69	120.25	117.40
3	A1	412	A	C3'-C2'-C1'	-5.69	96.95	101.50
3	A1	569	C	O4'-C1'-N1	5.69	112.75	108.20
3	A1	993	G	C8-N9-C1'	-5.69	119.60	127.00
7	AF	86	ARG	NH1-CZ-NH2	-5.69	113.14	119.40
8	AG	65	GLN	C-N-CA	5.69	135.93	121.70
24	BA	26	C	C3'-C2'-C1'	5.69	106.05	101.50
24	BA	38	C	O4'-C4'-C3'	-5.69	98.31	104.00
24	BA	111	U	N3-C4-O4	5.69	123.39	119.40
25	BB	38	A	C5-N7-C8	-5.69	101.05	103.90
25	BB	834	G	N1-C2-N3	5.69	127.31	123.90
25	BB	1073	A	P-O5'-C5'	-5.69	111.79	120.90
25	BB	1138	G	P-O5'-C5'	5.69	130.01	120.90
25	BB	1168	G	N3-C4-C5	-5.69	125.75	128.60
25	BB	1244	A	N9-C4-C5	5.69	108.08	105.80
25	BB	1502	A	C5'-C4'-C3'	-5.69	106.89	116.00
25	BB	2184	A	C3'-C2'-C1'	5.69	106.06	101.50
25	BB	2259	U	N1-C2-N3	5.69	118.32	114.90
25	BB	2487	G	C5-C6-O6	-5.69	125.19	128.60
25	BB	2826	A	N7-C8-N9	5.69	116.65	113.80
53	B4	116	ARG	NE-CZ-NH2	5.69	123.15	120.30
1	AA	43	G	C3'-C2'-C1'	-5.69	96.95	101.50
1	AP	75	C	C2-N3-C4	-5.69	117.06	119.90
3	A1	98	A	C5-C6-N6	5.69	128.25	123.70
3	A1	218	U	O3'-P-O5'	5.69	114.81	104.00
3	A1	324	G	O5'-P-OP1	-5.69	100.58	105.70
3	A1	454	G	C4-C5-C6	-5.69	115.39	118.80
3	A1	614	C	C4-C5-C6	5.69	120.25	117.40
3	A1	659	U	N3-C4-C5	-5.69	111.19	114.60
3	A1	1169	A	N7-C8-N9	-5.69	110.95	113.80
3	A1	1219	A	C1'-O4'-C4'	-5.69	105.35	109.90
4	AB	26	MET	CG-SD-CE	-5.69	91.09	100.20
12	AK	73	HIS	CA-CB-CG	5.69	123.27	113.60
25	BB	15	G	O5'-P-OP1	5.69	117.53	110.70
25	BB	1899	A	N1-C6-N6	-5.69	115.19	118.60
25	BB	2140	G	N3-C4-N9	-5.69	122.58	126.00
25	BB	2328	A	C5'-C4'-C3'	-5.69	106.89	116.00
25	BB	2581	G	C5-C6-O6	5.69	132.01	128.60
25	BB	2630	G	N9-C4-C5	5.69	107.68	105.40
55	B6	69	ARG	NE-CZ-NH2	-5.69	117.45	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AE	10	G	C3'-C2'-C1'	5.69	106.05	101.50
3	A1	402	G	O3'-P-O5'	5.69	114.81	104.00
3	A1	1388	C	N3-C4-N4	-5.69	114.02	118.00
25	BB	363	G	N1-C2-N3	5.69	127.31	123.90
25	BB	506	G	C4-C5-C6	-5.69	115.39	118.80
25	BB	609	A	C4'-C3'-C2'	-5.69	96.91	102.60
25	BB	819	A	C4-C5-C6	-5.69	114.16	117.00
1	AA	71	G	N1-C2-N2	-5.69	111.08	116.20
3	A1	296	U	P-O3'-C3'	5.69	126.52	119.70
3	A1	518	C	O4'-C1'-N1	5.69	112.75	108.20
3	A1	559	A	C1'-O4'-C4'	-5.69	105.35	109.90
3	A1	1170	A	C6-C5-N7	5.69	136.28	132.30
25	BB	174	U	C3'-C2'-C1'	-5.69	96.95	101.50
25	BB	215	G	C6-N1-C2	-5.69	121.69	125.10
25	BB	889	C	N1-C2-O2	5.69	122.31	118.90
25	BB	1270	C	C5-C4-N4	-5.69	116.22	120.20
25	BB	2270	A	C6-N1-C2	5.69	122.01	118.60
25	BB	2395	C	OP2-P-O3'	5.69	117.71	105.20
25	BB	2420	C	C5-C4-N4	-5.69	116.22	120.20
3	A1	63	C	N3-C2-O2	-5.69	117.92	121.90
3	A1	329	A	C4-C5-C6	-5.69	114.16	117.00
3	A1	978	A	C3'-C2'-C1'	-5.69	96.95	101.50
3	A1	1212	U	C5-C4-O4	-5.69	122.49	125.90
25	BB	297	G	N1-C2-N2	-5.69	111.08	116.20
25	BB	647	G	C8-N9-C4	5.69	108.67	106.40
25	BB	691	C	C5'-C4'-O4'	5.69	115.92	109.10
25	BB	1423	G	C2'-C3'-O3'	5.69	122.80	113.70
25	BB	2397	G	C1'-O4'-C4'	-5.69	105.35	109.90
3	A1	327	A	N7-C8-N9	5.68	116.64	113.80
3	A1	536	C	N3-C4-C5	5.68	124.17	121.90
25	BB	136	G	C5-N7-C8	-5.68	101.46	104.30
25	BB	504	A	C3'-C2'-C1'	-5.68	96.95	101.50
25	BB	626	A	C5'-C4'-C3'	-5.68	106.91	116.00
25	BB	811	U	C3'-C2'-C1'	-5.68	96.95	101.50
25	BB	1053	C	N3-C4-N4	-5.68	114.02	118.00
25	BB	1118	C	C3'-C2'-C1'	-5.68	96.95	101.50
25	BB	1244	A	N1-C2-N3	-5.68	126.46	129.30
25	BB	1468	U	O4'-C4'-C3'	5.68	110.65	106.10
25	BB	2545	G	C6-N1-C2	-5.68	121.69	125.10
25	BB	2682	A	N1-C6-N6	-5.68	115.19	118.60
1	AA	74	C	C1'-C2'-O2'	5.68	127.65	110.60
3	A1	197	A	C2-N3-C4	5.68	113.44	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	409	U	OP2-P-O3'	5.68	117.70	105.20
3	A1	428	G	OP1-P-OP2	-5.68	111.08	119.60
3	A1	511	C	N3-C4-N4	-5.68	114.02	118.00
3	A1	614	C	C2-N3-C4	-5.68	117.06	119.90
3	A1	645	G	C4-C5-N7	-5.68	108.53	110.80
3	A1	1026	G	C4-C5-N7	-5.68	108.53	110.80
3	A1	1265	C	N1-C2-O2	-5.68	115.49	118.90
3	A1	1480	A	C4-C5-N7	5.68	113.54	110.70
24	BA	112	G	C6-N1-C2	-5.68	121.69	125.10
25	BB	132	G	C5-C6-O6	5.68	132.01	128.60
25	BB	160	A	C5-C6-N6	5.68	128.25	123.70
25	BB	1215	G	C4'-C3'-C2'	-5.68	96.92	102.60
25	BB	1361	G	C2-N3-C4	5.68	114.74	111.90
25	BB	1445	G	N3-C4-N9	5.68	129.41	126.00
25	BB	2328	A	O4'-C1'-N9	5.68	112.75	108.20
25	BB	2491	U	C5-C6-N1	-5.68	119.86	122.70
3	A1	605	U	N3-C4-O4	5.68	123.38	119.40
3	A1	1168	U	C3'-C2'-C1'	5.68	106.05	101.50
9	AH	88	ARG	CD-NE-CZ	5.68	131.55	123.60
25	BB	326	G	O4'-C1'-N9	5.68	112.75	108.20
25	BB	1326	U	C5-C6-N1	-5.68	119.86	122.70
25	BB	2328	A	C6-N1-C2	5.68	122.01	118.60
25	BB	2756	U	C2'-C3'-O3'	5.68	122.79	113.70
25	BB	2791	G	C3'-C2'-C1'	5.68	106.05	101.50
3	A1	196	A	O4'-C4'-C3'	-5.68	98.32	104.00
3	A1	825	A	C1'-O4'-C4'	-5.68	105.36	109.90
3	A1	1128	C	N3-C4-N4	-5.68	114.02	118.00
3	A1	1331	G	O4'-C4'-C3'	5.68	110.64	106.10
3	A1	1451	U	C3'-C2'-C1'	5.68	106.04	101.50
24	BA	27	C	C6-N1-C2	-5.68	118.03	120.30
25	BB	72	U	C1'-O4'-C4'	-5.68	105.36	109.90
25	BB	192	C	N3-C4-N4	-5.68	114.02	118.00
25	BB	267	C	N3-C4-N4	-5.68	114.03	118.00
25	BB	568	U	O4'-C4'-C3'	5.68	110.64	106.10
25	BB	695	G	C4'-C3'-C2'	-5.68	96.92	102.60
25	BB	810	U	N3-C2-O2	-5.68	118.22	122.20
25	BB	1271	G	C6-N1-C2	-5.68	121.69	125.10
25	BB	1515	A	C4-C5-N7	-5.68	107.86	110.70
25	BB	2319	G	N1-C6-O6	-5.68	116.49	119.90
25	BB	2511	U	N1-C2-N3	5.68	118.31	114.90
25	BB	2894	G	C5'-C4'-O4'	5.68	115.92	109.10
47	BX	33	HIS	C-N-CA	5.68	135.90	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AE	45	G	C6-N1-C2	-5.68	121.69	125.10
3	A1	338	A	C4-C5-N7	5.68	113.54	110.70
3	A1	557	G	N1-C6-O6	-5.68	116.49	119.90
3	A1	688	G	N9-C1'-C2'	-5.68	105.75	112.00
3	A1	1101	A	N3-C4-N9	5.68	131.94	127.40
3	A1	1177	G	C5-C6-O6	5.68	132.01	128.60
3	A1	1410	A	N1-C2-N3	-5.68	126.46	129.30
20	AU	46	LEU	O-C-N	-5.68	113.61	122.70
25	BB	1095	A	C5-C6-N1	5.68	120.54	117.70
25	BB	1258	U	N1-C1'-C2'	5.68	121.38	114.00
25	BB	2372	U	O4'-C4'-C3'	-5.68	98.32	104.00
3	A1	149	A	C5-C6-N6	5.68	128.24	123.70
3	A1	401	C	C2-N3-C4	-5.68	117.06	119.90
3	A1	450	G	N1-C2-N2	5.68	121.31	116.20
3	A1	1174	G	C8-N9-C4	5.68	108.67	106.40
3	A1	1489	G	P-O3'-C3'	5.68	126.51	119.70
24	BA	10	G	N1-C2-N3	5.68	127.31	123.90
24	BA	101	A	C4'-C3'-C2'	-5.68	96.92	102.60
25	BB	141	G	C8-N9-C4	5.68	108.67	106.40
25	BB	556	A	P-O5'-C5'	5.68	129.98	120.90
25	BB	682	G	C5-C6-O6	5.68	132.01	128.60
25	BB	964	C	O4'-C1'-N1	5.68	112.74	108.20
25	BB	1208	C	N3-C2-O2	-5.68	117.93	121.90
25	BB	1579	A	C8-N9-C4	-5.68	103.53	105.80
25	BB	2417	C	C6-N1-C1'	5.68	127.61	120.80
25	BB	2601	C	C2'-C3'-O3'	5.68	122.78	113.70
25	BB	2708	G	C5-N7-C8	5.68	107.14	104.30
25	BB	2799	A	C8-N9-C4	5.68	108.07	105.80
41	BR	29	ARG	NH1-CZ-NH2	-5.68	113.16	119.40
55	B6	38	GLY	C-N-CA	5.68	135.89	121.70
3	A1	312	C	C5-C4-N4	5.67	124.17	120.20
3	A1	756	C	C4-C5-C6	-5.67	114.56	117.40
3	A1	830	G	N7-C8-N9	-5.67	110.26	113.10
3	A1	833	G	N9-C4-C5	5.67	107.67	105.40
3	A1	858	G	N3-C2-N2	5.67	123.87	119.90
3	A1	1157	A	N9-C4-C5	5.67	108.07	105.80
25	BB	442	G	C5'-C4'-C3'	-5.67	106.92	116.00
25	BB	649	G	O4'-C4'-C3'	5.67	110.64	106.10
25	BB	1624	U	N3-C2-O2	-5.67	118.23	122.20
25	BB	1907	G	C4-C5-N7	5.67	113.07	110.80
25	BB	2452	C	C4-C5-C6	-5.67	114.56	117.40
25	BB	2720	U	C5-C4-O4	5.67	129.30	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2768	U	C3'-C2'-C1'	5.67	106.04	101.50
25	BB	2884	U	N3-C4-C5	5.67	118.00	114.60
3	A1	1106	G	C4-C5-N7	5.67	113.07	110.80
3	A1	1339	A	C2'-C3'-O3'	5.67	122.78	113.70
46	BW	49	VAL	CA-CB-CG2	5.67	119.41	110.90
1	AA	54	U	O5'-P-OP2	5.67	117.51	110.70
1	AP	39	U	C4-C5-C6	5.67	123.10	119.70
3	A1	138	G	O3'-P-O5'	-5.67	93.22	104.00
3	A1	469	C	O4'-C1'-N1	5.67	112.74	108.20
3	A1	633	G	C5-N7-C8	-5.67	101.46	104.30
3	A1	847	G	C8-N9-C4	-5.67	104.13	106.40
3	A1	1097	C	C4-C5-C6	-5.67	114.56	117.40
3	A1	1127	G	N1-C2-N3	5.67	127.30	123.90
25	BB	131	A	N1-C2-N3	-5.67	126.46	129.30
25	BB	160	A	C4-C5-C6	-5.67	114.16	117.00
25	BB	290	U	N3-C4-C5	5.67	118.00	114.60
25	BB	363	G	C3'-C2'-C1'	-5.67	96.96	101.50
25	BB	845	A	P-O3'-C3'	5.67	126.51	119.70
25	BB	868	U	C2-N3-C4	5.67	130.40	127.00
25	BB	2016	U	C6-N1-C2	-5.67	117.60	121.00
25	BB	2036	C	O4'-C1'-N1	5.67	112.74	108.20
25	BB	2317	A	C4-C5-N7	-5.67	107.86	110.70
25	BB	2317	A	C6-C5-N7	5.67	136.27	132.30
25	BB	2352	A	O4'-C1'-N9	-5.67	103.66	108.20
25	BB	2591	C	C2-N3-C4	-5.67	117.06	119.90
25	BB	2829	A	O4'-C1'-N9	5.67	112.74	108.20
52	B3	111	PRO	N-CA-CB	5.67	110.11	103.30
25	BB	1096	A	C8-N9-C4	5.67	108.07	105.80
25	BB	1249	U	O4'-C1'-N1	5.67	112.74	108.20
25	BB	2843	G	C5-N7-C8	-5.67	101.47	104.30
1	AA	53	G	C4'-C3'-C2'	-5.67	96.93	102.60
1	AP	1	G	O4'-C1'-N9	-5.67	103.67	108.20
3	A1	39	G	C3'-C2'-C1'	-5.67	96.97	101.50
3	A1	257	G	C5-C6-N1	5.67	114.33	111.50
3	A1	532	A	O4'-C1'-C2'	-5.67	100.13	105.80
3	A1	670	G	C3'-C2'-C1'	5.67	106.04	101.50
3	A1	1175	G	N3-C4-N9	5.67	129.40	126.00
3	A1	1198	G	C1'-O4'-C4'	-5.67	105.36	109.90
3	A1	1236	A	N9-C1'-C2'	-5.67	105.77	112.00
3	A1	1411	C	C6-N1-C2	-5.67	118.03	120.30
25	BB	79	C	C4'-C3'-C2'	-5.67	96.93	102.60
25	BB	118	A	C5'-C4'-O4'	5.67	115.90	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	829	A	C5-C6-N1	5.67	120.53	117.70
25	BB	967	U	N1-C2-N3	5.67	118.30	114.90
25	BB	1445	G	C2-N3-C4	5.67	114.73	111.90
25	BB	1665	A	C5-N7-C8	5.67	106.73	103.90
25	BB	1737	G	N3-C4-C5	-5.67	125.77	128.60
25	BB	1790	C	N1-C2-N3	5.67	123.17	119.20
25	BB	2010	G	C4-C5-C6	-5.67	115.40	118.80
25	BB	2028	U	O4'-C1'-N1	5.67	112.73	108.20
25	BB	2121	G	C5-N7-C8	-5.67	101.47	104.30
25	BB	2211	A	O4'-C1'-N9	5.67	112.73	108.20
25	BB	2463	C	N3-C4-C5	5.67	124.17	121.90
25	BB	2529	G	N9-C1'-C2'	5.67	121.37	114.00
25	BB	2670	A	C5-C6-N6	5.67	128.24	123.70
25	BB	2682	A	N3-C4-N9	-5.67	122.87	127.40
52	B3	94	ARG	NE-CZ-NH1	5.67	123.13	120.30
1	AA	8	U	C3'-C2'-C1'	-5.67	96.97	101.50
1	AP	11	C	O5'-C5'-C4'	-5.67	100.93	111.70
3	A1	10	A	C2-N3-C4	5.67	113.43	110.60
3	A1	693	G	N1-C2-N2	5.67	121.30	116.20
3	A1	957	U	O4'-C1'-N1	5.67	112.73	108.20
3	A1	992	U	O4'-C1'-N1	-5.67	103.67	108.20
24	BA	85	G	N3-C4-C5	-5.67	125.77	128.60
25	BB	598	U	C5-C4-O4	-5.67	122.50	125.90
25	BB	797	G	C5-C6-N1	5.67	114.33	111.50
25	BB	943	A	N1-C2-N3	5.67	132.13	129.30
25	BB	1303	G	C3'-C2'-C1'	5.67	106.03	101.50
25	BB	1886	U	C4-C5-C6	5.67	123.10	119.70
25	BB	2164	C	N1-C2-O2	5.67	122.30	118.90
25	BB	2277	G	C5'-C4'-C3'	-5.67	106.93	116.00
25	BB	2595	G	C8-N9-C1'	5.67	134.37	127.00
50	B1	39	ALA	N-CA-CB	-5.67	102.17	110.10
50	B1	164	LEU	C-N-CA	5.67	135.87	121.70
3	A1	767	A	C4'-C3'-C2'	-5.67	96.94	102.60
24	BA	102	G	C5-C6-N1	5.67	114.33	111.50
25	BB	390	U	C5-C4-O4	-5.67	122.50	125.90
25	BB	1728	C	N1-C2-O2	-5.67	115.50	118.90
25	BB	1755	A	C3'-C2'-C1'	5.67	106.03	101.50
25	BB	1915	U	C5'-C4'-O4'	5.67	115.90	109.10
25	BB	2559	C	C5-C6-N1	-5.67	118.17	121.00
3	A1	292	G	C4-C5-C6	-5.66	115.40	118.80
3	A1	599	C	N1-C2-O2	5.66	122.30	118.90
3	A1	1055	A	C3'-C2'-C1'	5.66	106.03	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1360	A	C1'-O4'-C4'	-5.66	105.37	109.90
8	AG	32	ASP	CB-CG-OD2	5.66	123.40	118.30
9	AH	52	ARG	NH1-CZ-NH2	-5.66	113.17	119.40
25	BB	11	C	O4'-C4'-C3'	-5.66	98.34	104.00
25	BB	289	G	N1-C2-N3	5.66	127.30	123.90
25	BB	570	G	N1-C6-O6	-5.66	116.50	119.90
25	BB	618	G	C4-C5-C6	-5.66	115.40	118.80
25	BB	802	A	C4-C5-C6	-5.66	114.17	117.00
25	BB	984	A	C4-N9-C1'	-5.66	116.11	126.30
25	BB	1039	A	N9-C1'-C2'	-5.66	105.77	112.00
25	BB	1120	G	N3-C2-N2	5.66	123.86	119.90
25	BB	1138	G	C6-C5-N7	5.66	133.80	130.40
25	BB	1403	A	N9-C4-C5	-5.66	103.53	105.80
25	BB	1612	C	N3-C4-C5	5.66	124.17	121.90
25	BB	1698	A	N7-C8-N9	-5.66	110.97	113.80
25	BB	2093	G	N7-C8-N9	-5.66	110.27	113.10
25	BB	2436	G	N3-C4-N9	-5.66	122.60	126.00
25	BB	2811	G	C5-C6-O6	5.66	132.00	128.60
25	BB	2899	A	C6-C5-N7	5.66	136.26	132.30
3	A1	77	A	C5-C6-N6	5.66	128.23	123.70
3	A1	255	G	C5'-C4'-O4'	5.66	115.89	109.10
3	A1	630	A	N7-C8-N9	5.66	116.63	113.80
3	A1	844	G	C8-N9-C4	-5.66	104.14	106.40
25	BB	799	G	C5-C6-O6	-5.66	125.20	128.60
25	BB	1297	C	C1'-O4'-C4'	-5.66	105.37	109.90
25	BB	1493	C	C2-N3-C4	-5.66	117.07	119.90
25	BB	1556	C	N1-C1'-C2'	-5.66	105.77	112.00
25	BB	2451	A	C6-C5-N7	5.66	136.26	132.30
3	A1	5	U	O4'-C1'-C2'	-5.66	100.14	105.80
3	A1	65	A	C2-N3-C4	5.66	113.43	110.60
3	A1	121	U	C4'-C3'-C2'	5.66	108.26	102.60
3	A1	340	U	C1'-O4'-C4'	5.66	114.43	109.90
3	A1	918	A	C6-C5-N7	5.66	136.26	132.30
3	A1	1244	G	C3'-C2'-C1'	5.66	106.03	101.50
3	A1	1293	C	O4'-C4'-C3'	5.66	110.63	106.10
25	BB	60	G	C5'-C4'-O4'	5.66	115.89	109.10
25	BB	200	U	O4'-C4'-C3'	5.66	110.63	106.10
25	BB	349	U	C1'-O4'-C4'	5.66	114.43	109.90
25	BB	605	G	C5-C6-N1	5.66	114.33	111.50
25	BB	660	C	C2-N3-C4	-5.66	117.07	119.90
25	BB	736	C	C3'-C2'-C1'	5.66	106.03	101.50
25	BB	1905	C	C6-N1-C2	-5.66	118.04	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1945	G	N1-C6-O6	-5.66	116.50	119.90
25	BB	2257	U	C5-C4-O4	-5.66	122.50	125.90
25	BB	2517	C	N1-C1'-C2'	-5.66	105.77	112.00
25	BB	2803	G	C4-N9-C1'	-5.66	119.14	126.50
3	A1	160	A	C8-N9-C4	-5.66	103.54	105.80
3	A1	512	U	N1-C2-O2	-5.66	118.84	122.80
3	A1	588	G	C3'-C2'-C1'	5.66	106.03	101.50
3	A1	825	A	N9-C4-C5	5.66	108.06	105.80
3	A1	842	U	C5'-C4'-O4'	5.66	115.89	109.10
3	A1	866	C	N1-C2-N3	5.66	123.16	119.20
3	A1	871	U	N1-C2-N3	5.66	118.30	114.90
3	A1	1012	A	C4-C5-C6	-5.66	114.17	117.00
3	A1	1154	G	C3'-C2'-C1'	5.66	106.03	101.50
3	A1	1413	A	O4'-C1'-N9	5.66	112.73	108.20
17	AR	64	TYR	CB-CG-CD2	-5.66	117.60	121.00
25	BB	183	C	N1-C2-O2	5.66	122.30	118.90
25	BB	491	G	N3-C4-N9	5.66	129.40	126.00
25	BB	745	G	N3-C4-C5	-5.66	125.77	128.60
25	BB	985	C	C5'-C4'-O4'	5.66	115.89	109.10
25	BB	991	C	O5'-P-OP1	5.66	117.49	110.70
25	BB	1223	G	N9-C1'-C2'	5.66	121.36	114.00
25	BB	1426	G	C5'-C4'-O4'	5.66	115.89	109.10
25	BB	1538	G	C5-N7-C8	-5.66	101.47	104.30
25	BB	2057	G	N3-C4-C5	-5.66	125.77	128.60
25	BB	2432	A	C8-N9-C4	5.66	108.06	105.80
25	BB	2599	G	C5'-C4'-O4'	5.66	115.89	109.10
55	B6	16	TYR	CZ-CE2-CD2	5.66	124.89	119.80
3	A1	10	A	O4'-C1'-N9	5.66	112.73	108.20
3	A1	115	G	N1-C6-O6	-5.66	116.51	119.90
3	A1	430	A	C6-N1-C2	5.66	121.99	118.60
3	A1	685	G	N1-C2-N2	-5.66	111.11	116.20
3	A1	771	G	N7-C8-N9	5.66	115.93	113.10
3	A1	885	G	N1-C2-N3	5.66	127.29	123.90
25	BB	3	U	C5'-C4'-C3'	-5.66	106.95	116.00
25	BB	88	G	C4-N9-C1'	5.66	133.85	126.50
25	BB	704	G	P-O3'-C3'	5.66	126.49	119.70
25	BB	738	G	P-O3'-C3'	5.66	126.49	119.70
25	BB	899	A	C5-C6-N1	5.66	120.53	117.70
25	BB	954	G	C6-N1-C2	-5.66	121.71	125.10
25	BB	966	G	C6-N1-C2	-5.66	121.71	125.10
25	BB	1210	G	C5'-C4'-O4'	-5.66	102.31	109.10
3	A1	326	G	C6-N1-C2	-5.66	121.71	125.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	459	A	C5-C6-N6	5.66	128.22	123.70
3	A1	549	C	C4-C5-C6	5.66	120.23	117.40
3	A1	748	G	C2-N3-C4	5.66	114.73	111.90
3	A1	788	U	N3-C4-O4	5.66	123.36	119.40
3	A1	1078	U	O4'-C1'-N1	5.66	112.72	108.20
3	A1	1419	G	C5-C6-N1	5.66	114.33	111.50
8	AG	89	ARG	NE-CZ-NH1	5.66	123.13	120.30
24	BA	49	C	C5-C6-N1	-5.66	118.17	121.00
24	BA	71	C	C5-C6-N1	-5.66	118.17	121.00
24	BA	92	C	N1-C2-N3	5.66	123.16	119.20
25	BB	348	A	O4'-C1'-N9	5.66	112.72	108.20
25	BB	540	C	N3-C2-O2	-5.66	117.94	121.90
25	BB	821	A	C1'-O4'-C4'	-5.66	105.38	109.90
25	BB	897	C	C3'-C2'-C1'	5.66	106.03	101.50
25	BB	1181	U	N3-C4-O4	5.66	123.36	119.40
25	BB	1682	G	C5-C6-N1	5.66	114.33	111.50
25	BB	1888	G	C1'-O4'-C4'	-5.66	105.38	109.90
25	BB	1896	G	C2-N3-C4	5.66	114.73	111.90
25	BB	1898	U	C5-C6-N1	-5.66	119.87	122.70
25	BB	1915	U	C3'-C2'-C1'	-5.66	96.98	101.50
25	BB	2890	G	C6-N1-C2	-5.66	121.71	125.10
26	BC	83	LYS	N-CA-CB	-5.66	100.42	110.60
43	BT	8	THR	CA-CB-CG2	5.66	120.32	112.40
49	BZ	196	VAL	C-N-CA	5.66	135.84	121.70
1	AP	15	G	O5'-C5'-C4'	-5.65	100.96	111.70
3	A1	1459	G	C2'-C3'-O3'	5.65	122.75	113.70
24	BA	26	C	N3-C4-C5	5.65	124.16	121.90
25	BB	12	U	C4-C5-C6	5.65	123.09	119.70
25	BB	376	G	N3-C4-C5	-5.65	125.77	128.60
25	BB	810	U	N3-C4-O4	-5.65	115.44	119.40
25	BB	1748	C	C1'-O4'-C4'	-5.65	105.38	109.90
25	BB	2790	U	O4'-C1'-N1	5.65	112.72	108.20
1	AP	36	A	N1-C2-N3	-5.65	126.47	129.30
1	AE	72	C	C5'-C4'-C3'	-5.65	106.96	116.00
3	A1	310	G	N3-C4-C5	-5.65	125.77	128.60
3	A1	1260	G	N7-C8-N9	5.65	115.93	113.10
3	A1	1362	A	C1'-O4'-C4'	5.65	114.42	109.90
3	A1	1463	U	C4'-C3'-C2'	-5.65	96.95	102.60
3	A1	1470	U	N1-C2-N3	5.65	118.29	114.90
3	A1	1503	A	C4-C5-C6	-5.65	114.17	117.00
25	BB	290	U	O4'-C1'-N1	5.65	112.72	108.20
25	BB	356	G	N9-C1'-C2'	-5.65	105.78	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	616	A	C4'-C3'-C2'	-5.65	96.95	102.60
25	BB	853	C	C4'-C3'-C2'	-5.65	96.95	102.60
25	BB	1140	C	C6-N1-C2	-5.65	118.04	120.30
25	BB	1432	G	C8-N9-C4	5.65	108.66	106.40
25	BB	1533	C	N3-C4-N4	-5.65	114.04	118.00
25	BB	2405	G	C6-C5-N7	5.65	133.79	130.40
25	BB	2479	U	N3-C4-C5	5.65	117.99	114.60
25	BB	2809	A	C8-N9-C4	5.65	108.06	105.80
3	A1	15	G	N3-C2-N2	-5.65	115.94	119.90
3	A1	26	A	N9-C4-C5	5.65	108.06	105.80
3	A1	232	G	C6-N1-C2	-5.65	121.71	125.10
3	A1	615	G	C5-C6-N1	-5.65	108.67	111.50
3	A1	887	G	C6-N1-C2	-5.65	121.71	125.10
3	A1	1051	C	C5'-C4'-C3'	-5.65	106.96	116.00
3	A1	1200	C	O4'-C4'-C3'	5.65	110.62	106.10
3	A1	1426	G	N3-C2-N2	-5.65	115.94	119.90
15	AO	202	PHE	CD1-CE1-CZ	-5.65	113.32	120.10
25	BB	326	G	N9-C4-C5	5.65	107.66	105.40
25	BB	611	C	N1-C2-N3	5.65	123.16	119.20
25	BB	696	G	C5-N7-C8	-5.65	101.47	104.30
25	BB	834	G	C5-C6-N1	-5.65	108.67	111.50
25	BB	977	G	C4-C5-N7	-5.65	108.54	110.80
25	BB	1455	G	C4-C5-N7	-5.65	108.54	110.80
25	BB	1474	U	P-O3'-C3'	5.65	126.48	119.70
25	BB	1773	A	N7-C8-N9	5.65	116.62	113.80
25	BB	1960	A	C8-N9-C4	-5.65	103.54	105.80
25	BB	1987	A	N7-C8-N9	5.65	116.63	113.80
25	BB	2294	G	C6-N1-C2	-5.65	121.71	125.10
25	BB	2349	G	C4-C5-N7	-5.65	108.54	110.80
25	BB	2624	G	N1-C2-N3	5.65	127.29	123.90
25	BB	2754	U	C5-C6-N1	-5.65	119.88	122.70
1	AA	5	A	C6-N1-C2	-5.65	115.21	118.60
1	AP	16	U	C4-C5-C6	5.65	123.09	119.70
3	A1	870	U	C4'-C3'-C2'	5.65	108.25	102.60
3	A1	897	C	C4'-C3'-C2'	-5.65	96.95	102.60
3	A1	962	C	C5-C6-N1	-5.65	118.18	121.00
3	A1	1171	A	C5-N7-C8	-5.65	101.08	103.90
17	AR	128	VAL	C-N-CA	5.65	135.82	121.70
25	BB	334	C	O4'-C1'-N1	-5.65	103.68	108.20
25	BB	453	A	C5'-C4'-C3'	5.65	125.04	116.00
25	BB	878	A	C4-C5-N7	-5.65	107.88	110.70
25	BB	998	C	C4'-C3'-C2'	-5.65	96.95	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1015	U	N1-C2-O2	5.65	126.75	122.80
25	BB	1252	G	N7-C8-N9	5.65	115.92	113.10
25	BB	1964	G	C4-C5-N7	-5.65	108.54	110.80
25	BB	2507	C	C4-C5-C6	-5.65	114.58	117.40
25	BB	2765	A	C3'-C2'-C1'	5.65	106.02	101.50
25	BB	2848	G	O5'-P-OP1	-5.65	100.62	105.70
3	A1	118	U	O4'-C4'-C3'	5.65	110.62	106.10
3	A1	212	G	C4-C5-C6	-5.65	115.41	118.80
3	A1	852	G	O5'-P-OP2	-5.65	100.62	105.70
3	A1	972	C	C2-N3-C4	-5.65	117.08	119.90
25	BB	413	C	P-O3'-C3'	5.65	126.48	119.70
25	BB	497	A	P-O3'-C3'	5.65	126.48	119.70
25	BB	971	G	N9-C4-C5	-5.65	103.14	105.40
25	BB	1120	G	C5'-C4'-O4'	5.65	115.88	109.10
25	BB	1296	G	N9-C4-C5	-5.65	103.14	105.40
25	BB	1554	U	C6-N1-C2	-5.65	117.61	121.00
25	BB	1735	A	C5-C6-N6	5.65	128.22	123.70
25	BB	1759	A	C5-C6-N1	5.65	120.52	117.70
25	BB	1762	A	C5-N7-C8	-5.65	101.08	103.90
25	BB	1768	C	C1'-O4'-C4'	-5.65	105.38	109.90
25	BB	1899	A	C4-C5-C6	-5.65	114.18	117.00
25	BB	2182	U	N1-C1'-C2'	-5.65	105.79	112.00
25	BB	2421	G	C4-C5-N7	-5.65	108.54	110.80
25	BB	2616	C	C5-C6-N1	-5.65	118.18	121.00
25	BB	2730	C	C6-N1-C2	-5.65	118.04	120.30
25	BB	2844	G	N1-C2-N2	-5.65	111.12	116.20
33	BJ	31	TYR	CZ-CE2-CD2	5.65	124.88	119.80
34	BK	95	ASP	CB-CG-OD2	5.65	123.38	118.30
1	AA	31	A	C8-N9-C4	-5.65	103.54	105.80
3	A1	1503	A	N1-C2-N3	-5.65	126.48	129.30
3	A1	1516	G	C5'-C4'-O4'	-5.65	102.33	109.10
19	AT	38	ARG	CD-NE-CZ	5.65	131.50	123.60
25	BB	1550	C	N3-C4-N4	-5.65	114.05	118.00
25	BB	1665	A	C6-N1-C2	5.65	121.99	118.60
25	BB	1904	G	N1-C6-O6	5.65	123.29	119.90
25	BB	2298	A	C6-N1-C2	-5.65	115.21	118.60
25	BB	2461	A	C5-N7-C8	-5.65	101.08	103.90
25	BB	2547	A	C6-C5-N7	5.65	136.25	132.30
1	AE	30	G	C4-C5-N7	5.64	113.06	110.80
2	AM	1	U	C5-C4-O4	-5.64	122.51	125.90
3	A1	57	G	C1'-O4'-C4'	-5.64	105.39	109.90
3	A1	162	A	C4-C5-N7	5.64	113.52	110.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	816	A	N1-C2-N3	5.64	132.12	129.30
3	A1	974	A	O4'-C4'-C3'	5.64	110.61	106.10
3	A1	1398	A	C1'-O4'-C4'	-5.64	105.39	109.90
24	BA	102	G	N7-C8-N9	5.64	115.92	113.10
25	BB	356	G	N1-C6-O6	-5.64	116.51	119.90
25	BB	450	G	N3-C2-N2	-5.64	115.95	119.90
25	BB	561	G	N7-C8-N9	5.64	115.92	113.10
25	BB	614	A	P-O5'-C5'	5.64	129.93	120.90
25	BB	809	G	O4'-C1'-C2'	5.64	112.68	107.60
25	BB	878	A	C2-N3-C4	5.64	113.42	110.60
25	BB	1300	G	C1'-O4'-C4'	-5.64	105.39	109.90
25	BB	1374	G	O4'-C1'-C2'	5.64	112.68	107.60
25	BB	1523	U	O5'-P-OP2	5.64	117.47	110.70
25	BB	2300	C	O4'-C1'-N1	5.64	112.72	108.20
37	BN	265	PHE	CG-CD2-CE2	-5.64	114.59	120.80
2	AM	19	U	N3-C4-C5	5.64	117.98	114.60
3	A1	42	G	N1-C2-N3	5.64	127.28	123.90
3	A1	151	A	N9-C1'-C2'	-5.64	105.79	112.00
3	A1	459	A	C6-C5-N7	5.64	136.25	132.30
3	A1	675	A	N1-C6-N6	-5.64	115.22	118.60
3	A1	820	U	P-O3'-C3'	5.64	126.47	119.70
3	A1	1131	G	N7-C8-N9	5.64	115.92	113.10
3	A1	1176	A	O4'-C1'-C2'	-5.64	100.16	105.80
25	BB	81	G	C5-N7-C8	5.64	107.12	104.30
25	BB	86	G	N1-C6-O6	-5.64	116.52	119.90
25	BB	579	G	C5-N7-C8	-5.64	101.48	104.30
25	BB	582	A	N1-C2-N3	5.64	132.12	129.30
25	BB	971	G	C3'-C2'-C1'	5.64	106.01	101.50
25	BB	1254	A	C3'-C2'-C1'	5.64	106.01	101.50
25	BB	1493	C	C5'-C4'-C3'	-5.64	106.97	116.00
25	BB	1546	G	C8-N9-C4	-5.64	104.14	106.40
25	BB	1592	C	C2-N3-C4	-5.64	117.08	119.90
25	BB	1742	U	N3-C4-O4	-5.64	115.45	119.40
25	BB	2204	G	C5-C6-O6	5.64	131.99	128.60
25	BB	2500	U	N3-C4-O4	-5.64	115.45	119.40
25	BB	2779	U	N3-C4-O4	5.64	123.35	119.40
26	BC	22	ALA	CB-CA-C	5.64	118.56	110.10
31	BH	102	ARG	NE-CZ-NH1	5.64	123.12	120.30
38	BO	81	ARG	NE-CZ-NH2	-5.64	117.48	120.30
3	A1	531	U	C2-N3-C4	-5.64	123.61	127.00
25	BB	31	C	N3-C2-O2	-5.64	117.95	121.90
25	BB	35	G	C2-N3-C4	-5.64	109.08	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	895	U	C3'-C2'-C1'	5.64	106.01	101.50
25	BB	1122	G	C5-C6-O6	5.64	131.99	128.60
25	BB	1253	A	C2-N3-C4	5.64	113.42	110.60
25	BB	1961	C	O4'-C1'-N1	5.64	112.71	108.20
25	BB	2663	G	O5'-C5'-C4'	5.64	122.42	111.70
1	AE	35	A	C2'-C3'-O3'	5.64	122.72	113.70
3	A1	46	G	N9-C4-C5	5.64	107.66	105.40
3	A1	991	U	O4'-C1'-N1	5.64	112.71	108.20
3	A1	1293	C	N1-C1'-C2'	-5.64	105.80	112.00
3	A1	1338	G	C8-N9-C1'	5.64	134.33	127.00
3	A1	1465	A	P-O5'-C5'	5.64	129.92	120.90
25	BB	133	U	C5-C6-N1	-5.64	119.88	122.70
25	BB	188	G	P-O3'-C3'	5.64	126.47	119.70
25	BB	257	C	C1'-O4'-C4'	-5.64	105.39	109.90
25	BB	1442	U	C6-N1-C2	-5.64	117.62	121.00
25	BB	1710	G	O5'-C5'-C4'	5.64	122.41	111.70
25	BB	2234	G	C4-C5-C6	-5.64	115.42	118.80
25	BB	2472	G	C4'-C3'-C2'	-5.64	96.96	102.60
25	BB	2741	A	N9-C1'-C2'	-5.64	105.80	112.00
25	BB	2806	C	C2-N3-C4	-5.64	117.08	119.90
33	BJ	29	ARG	NE-CZ-NH1	-5.64	117.48	120.30
3	A1	160	A	N1-C2-N3	-5.64	126.48	129.30
3	A1	612	C	O4'-C1'-N1	5.64	112.71	108.20
3	A1	686	U	N1-C2-N3	5.64	118.28	114.90
3	A1	917	G	O4'-C1'-N9	5.64	112.71	108.20
3	A1	1265	C	N1-C2-N3	5.64	123.15	119.20
3	A1	1296	C	C2-N3-C4	-5.64	117.08	119.90
3	A1	1474	U	C5'-C4'-O4'	5.64	115.87	109.10
25	BB	14	A	C6-N1-C2	-5.64	115.22	118.60
25	BB	2444	G	C5-C6-N1	5.64	114.32	111.50
35	BL	85	ILE	CA-CB-CG1	5.64	121.71	111.00
1	AA	30	G	N3-C2-N2	-5.64	115.95	119.90
3	A1	814	A	N3-C4-N9	5.64	131.91	127.40
3	A1	942	G	C4-C5-C6	-5.64	115.42	118.80
3	A1	1301	U	O4'-C1'-N1	5.64	112.71	108.20
3	A1	1421	G	N3-C4-C5	-5.64	125.78	128.60
23	AX	53	ILE	O-C-N	-5.64	113.68	122.70
25	BB	82	U	C4-C5-C6	5.64	123.08	119.70
25	BB	414	C	O4'-C1'-N1	5.64	112.71	108.20
25	BB	576	U	C2-N1-C1'	5.64	124.46	117.70
25	BB	783	A	N7-C8-N9	5.64	116.62	113.80
25	BB	1358	G	N3-C4-C5	-5.64	125.78	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1487	U	C5'-C4'-O4'	5.64	115.86	109.10
25	BB	1543	G	C3'-C2'-C1'	5.64	106.01	101.50
25	BB	1800	C	C5-C4-N4	-5.64	116.25	120.20
25	BB	2084	C	N1-C2-O2	5.64	122.28	118.90
25	BB	2191	A	N7-C8-N9	5.64	116.62	113.80
25	BB	2202	U	N3-C4-O4	5.64	123.35	119.40
25	BB	2314	A	C5'-C4'-O4'	5.64	115.86	109.10
32	BI	88	ARG	NH1-CZ-NH2	-5.64	113.20	119.40
48	BY	135	GLY	C-N-CA	5.64	135.79	121.70
1	AP	32	C	C6-N1-C2	-5.63	118.05	120.30
1	AE	61	C	N1-C2-N3	-5.63	115.26	119.20
3	A1	167	A	C3'-C2'-C1'	5.63	106.01	101.50
3	A1	411	A	O4'-C1'-C2'	5.63	112.67	107.60
3	A1	605	U	C5'-C4'-C3'	-5.63	106.99	116.00
3	A1	774	G	N3-C4-N9	5.63	129.38	126.00
25	BB	352	A	C2-N3-C4	5.63	113.42	110.60
25	BB	853	C	O4'-C1'-N1	5.63	112.71	108.20
25	BB	904	G	N3-C2-N2	-5.63	115.96	119.90
25	BB	1048	A	C4-C5-N7	5.63	113.52	110.70
25	BB	1454	C	C2-N3-C4	-5.63	117.08	119.90
25	BB	2747	G	C3'-C2'-C1'	5.63	106.01	101.50
1	AE	3	G	C2-N3-C4	-5.63	109.08	111.90
1	AE	73	A	C5-N7-C8	-5.63	101.08	103.90
3	A1	171	A	C5-N7-C8	-5.63	101.08	103.90
3	A1	640	A	C6-N1-C2	-5.63	115.22	118.60
25	BB	1531	C	C4'-C3'-O3'	5.63	124.27	113.00
1	AA	15	G	O4'-C1'-N9	5.63	112.70	108.20
1	AE	48	C	C5'-C4'-C3'	-5.63	106.99	116.00
3	A1	189	A	N9-C1'-C2'	-5.63	105.80	112.00
3	A1	302	G	N7-C8-N9	5.63	115.92	113.10
3	A1	870	U	O4'-C1'-N1	5.63	112.71	108.20
3	A1	993	G	N3-C4-C5	5.63	131.42	128.60
3	A1	1144	G	C5-C6-O6	5.63	131.98	128.60
3	A1	1393	U	N3-C4-C5	5.63	117.98	114.60
24	BA	2	G	N3-C2-N2	-5.63	115.96	119.90
25	BB	675	A	C5-C6-N1	5.63	120.52	117.70
25	BB	1156	A	P-O5'-C5'	5.63	129.91	120.90
25	BB	1403	A	N1-C2-N3	5.63	132.12	129.30
25	BB	1609	A	N9-C4-C5	-5.63	103.55	105.80
25	BB	1633	G	N7-C8-N9	-5.63	110.28	113.10
25	BB	1687	G	C4'-C3'-C2'	5.63	108.23	102.60
25	BB	2218	G	C5-N7-C8	5.63	107.12	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2269	G	N3-C4-C5	-5.63	125.78	128.60
25	BB	2643	G	O4'-C1'-N9	-5.63	103.69	108.20
1	AP	6	U	C5'-C4'-O4'	5.63	115.86	109.10
1	AP	42	G	C5-C6-O6	5.63	131.98	128.60
25	BB	257	C	N3-C4-C5	5.63	124.15	121.90
25	BB	388	G	C5-N7-C8	-5.63	101.48	104.30
25	BB	926	G	N3-C2-N2	5.63	123.84	119.90
25	BB	1638	C	N3-C4-C5	5.63	124.15	121.90
25	BB	1694	C	N3-C4-C5	5.63	124.15	121.90
25	BB	1929	G	C5-C6-N1	5.63	114.31	111.50
25	BB	2729	G	C2-N3-C4	5.63	114.72	111.90
3	A1	237	G	C4-C5-C6	-5.63	115.42	118.80
3	A1	472	U	C6-N1-C2	-5.63	117.62	121.00
25	BB	229	C	N3-C2-O2	-5.63	117.96	121.90
25	BB	296	U	N3-C4-C5	-5.63	111.22	114.60
25	BB	635	C	N3-C4-N4	-5.63	114.06	118.00
25	BB	722	A	N7-C8-N9	-5.63	110.99	113.80
25	BB	1261	C	C6-N1-C2	5.63	122.55	120.30
25	BB	1269	A	C4-C5-N7	5.63	113.51	110.70
25	BB	2307	G	C5-C6-N1	5.63	114.31	111.50
25	BB	2419	U	C5'-C4'-O4'	5.63	115.85	109.10
25	BB	2494	G	N3-C2-N2	5.63	123.84	119.90
25	BB	2581	G	C2-N3-C4	5.63	114.71	111.90
25	BB	2619	C	C5'-C4'-C3'	-5.63	107.00	116.00
33	BJ	49	ARG	CD-NE-CZ	5.63	131.48	123.60
33	BJ	69	ARG	NH1-CZ-NH2	-5.63	113.21	119.40
1	AA	44	A	C5-C6-N6	5.63	128.20	123.70
1	AE	61	C	C2-N3-C4	5.63	122.71	119.90
3	A1	175	C	C4'-C3'-C2'	-5.63	96.97	102.60
3	A1	177	G	N1-C6-O6	-5.63	116.52	119.90
3	A1	201	G	N1-C2-N3	5.63	127.28	123.90
3	A1	244	U	P-O3'-C3'	5.63	126.45	119.70
3	A1	773	G	C2-N3-C4	5.63	114.71	111.90
3	A1	1061	G	N3-C2-N2	-5.63	115.96	119.90
3	A1	1115	U	C1'-O4'-C4'	-5.63	105.40	109.90
3	A1	1183	U	C5'-C4'-O4'	5.63	115.85	109.10
3	A1	1287	A	C5-C6-N6	5.63	128.20	123.70
3	A1	1429	A	C6-C5-N7	5.63	136.24	132.30
24	BA	44	G	C4'-C3'-C2'	-5.63	96.97	102.60
25	BB	269	C	C6-N1-C2	-5.63	118.05	120.30
25	BB	469	G	N1-C2-N3	-5.63	120.52	123.90
25	BB	688	U	O4'-C1'-N1	5.63	112.70	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	831	G	C5'-C4'-O4'	-5.63	102.35	109.10
25	BB	1012	U	N3-C4-C5	5.63	117.98	114.60
25	BB	1100	C	N3-C2-O2	-5.63	117.96	121.90
25	BB	1171	G	N1-C2-N2	-5.63	111.14	116.20
25	BB	1304	A	C5-C6-N6	5.63	128.20	123.70
25	BB	1824	G	N3-C2-N2	-5.63	115.96	119.90
25	BB	2459	A	C8-N9-C4	5.63	108.05	105.80
25	BB	2759	G	C6-N1-C2	-5.63	121.72	125.10
25	BB	2793	C	P-O3'-C3'	5.63	126.45	119.70
3	A1	710	G	N1-C2-N3	5.62	127.28	123.90
3	A1	1357	A	C5-N7-C8	-5.62	101.09	103.90
25	BB	496	G	N1-C6-O6	-5.62	116.53	119.90
25	BB	855	G	C2-N3-C4	-5.62	109.09	111.90
25	BB	1100	C	O4'-C1'-C2'	5.62	112.66	107.60
25	BB	1335	C	C4-C5-C6	5.62	120.21	117.40
25	BB	1816	C	N1-C2-N3	5.62	123.14	119.20
25	BB	2704	C	O4'-C1'-N1	5.62	112.70	108.20
50	B1	186	VAL	CG1-CB-CG2	-5.62	101.90	110.90
1	AE	44	A	C6-C5-N7	5.62	136.24	132.30
3	A1	181	A	C5-N7-C8	-5.62	101.09	103.90
3	A1	404	G	C3'-C2'-C1'	5.62	106.00	101.50
3	A1	443	C	N3-C4-C5	5.62	124.15	121.90
3	A1	687	A	C4'-C3'-C2'	5.62	108.22	102.60
3	A1	728	A	O4'-C1'-N9	5.62	112.70	108.20
3	A1	809	G	O4'-C1'-C2'	-5.62	100.18	105.80
3	A1	1145	A	C8-N9-C4	-5.62	103.55	105.80
3	A1	1311	A	N7-C8-N9	5.62	116.61	113.80
3	A1	1386	G	O4'-C1'-N9	5.62	112.70	108.20
18	AS	137	ARG	NE-CZ-NH1	5.62	123.11	120.30
25	BB	491	G	C5'-C4'-O4'	-5.62	102.35	109.10
25	BB	513	A	C4-C5-N7	-5.62	107.89	110.70
25	BB	592	A	P-O3'-C3'	5.62	126.45	119.70
25	BB	687	C	C2-N1-C1'	5.62	124.99	118.80
25	BB	1377	G	C2-N3-C4	5.62	114.71	111.90
25	BB	1507	C	N3-C4-C5	5.62	124.15	121.90
25	BB	2646	C	C3'-C2'-C1'	-5.62	97.00	101.50
1	AA	1	G	N7-C8-N9	5.62	115.91	113.10
1	AA	75	C	OP1-P-OP2	-5.62	111.17	119.60
1	AP	18	G	N3-C2-N2	-5.62	115.97	119.90
2	AM	8	U	N3-C2-O2	-5.62	118.26	122.20
3	A1	182	A	C5'-C4'-O4'	5.62	115.84	109.10
3	A1	225	C	C6-N1-C2	-5.62	118.05	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	514	C	C2-N3-C4	-5.62	117.09	119.90
3	A1	1304	G	C6-N1-C2	-5.62	121.73	125.10
25	BB	191	A	C5'-C4'-C3'	5.62	125.00	116.00
25	BB	232	G	C5-C6-O6	5.62	131.97	128.60
25	BB	411	G	C5-N7-C8	-5.62	101.49	104.30
25	BB	1081	U	C5-C4-O4	-5.62	122.53	125.90
25	BB	1510	G	N3-C4-C5	5.62	131.41	128.60
25	BB	1696	G	C4-C5-C6	-5.62	115.43	118.80
25	BB	2077	A	C6-C5-N7	5.62	136.24	132.30
25	BB	2518	A	C6-C5-N7	5.62	136.24	132.30
25	BB	2652	C	C5-C4-N4	-5.62	116.27	120.20
25	BB	2688	G	N1-C2-N3	5.62	127.27	123.90
33	BJ	38	VAL	CG1-CB-CG2	-5.62	101.91	110.90
3	A1	182	A	C5'-C4'-C3'	-5.62	107.01	116.00
3	A1	610	U	C5-C6-N1	-5.62	119.89	122.70
3	A1	747	A	N1-C6-N6	-5.62	115.23	118.60
3	A1	765	G	N3-C2-N2	-5.62	115.97	119.90
3	A1	1055	A	O4'-C1'-N9	-5.62	103.70	108.20
3	A1	1179	A	C4-C5-C6	-5.62	114.19	117.00
7	AF	51	GLN	OE1-CD-NE2	-5.62	108.97	121.90
25	BB	676	A	N9-C1'-C2'	5.62	121.31	114.00
25	BB	677	A	C4'-C3'-C2'	-5.62	96.98	102.60
25	BB	1162	G	C5'-C4'-O4'	5.62	115.84	109.10
25	BB	1501	G	C1'-O4'-C4'	-5.62	105.40	109.90
25	BB	1936	A	C5-N7-C8	-5.62	101.09	103.90
25	BB	2731	G	C5'-C4'-O4'	5.62	115.84	109.10
25	BB	2859	G	C5'-C4'-C3'	-5.62	107.01	116.00
1	AA	75	C	N1-C2-O2	-5.62	115.53	118.90
3	A1	746	A	N7-C8-N9	5.62	116.61	113.80
3	A1	868	C	C2-N3-C4	5.62	122.71	119.90
3	A1	1490	U	C5'-C4'-O4'	5.62	115.84	109.10
25	BB	47	C	C3'-C2'-C1'	-5.62	97.00	101.50
25	BB	94	A	C5'-C4'-O4'	-5.62	102.36	109.10
25	BB	325	G	C6-N1-C2	5.62	128.47	125.10
25	BB	423	A	C5'-C4'-C3'	-5.62	107.01	116.00
25	BB	503	A	O5'-C5'-C4'	5.62	122.37	111.70
25	BB	833	A	N3-C4-N9	-5.62	122.91	127.40
25	BB	1041	G	C6-C5-N7	-5.62	127.03	130.40
25	BB	1143	A	C4'-C3'-C2'	-5.62	96.98	102.60
25	BB	1202	G	N9-C4-C5	-5.62	103.15	105.40
25	BB	1314	C	O3'-P-O5'	-5.62	93.33	104.00
25	BB	1556	C	N3-C2-O2	-5.62	117.97	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1891	G	C4-C5-N7	-5.62	108.55	110.80
25	BB	2230	G	C8-N9-C4	-5.62	104.15	106.40
25	BB	2360	G	N9-C1'-C2'	-5.62	105.82	112.00
25	BB	2380	C	C5-C6-N1	-5.62	118.19	121.00
25	BB	2886	A	N3-C4-N9	-5.62	122.91	127.40
45	BV	14	ARG	CD-NE-CZ	5.62	131.47	123.60
52	B3	150	TYR	CZ-CE2-CD2	-5.62	114.74	119.80
3	A1	53	A	C6-C5-N7	5.62	136.23	132.30
3	A1	558	G	C4-C5-C6	-5.62	115.43	118.80
3	A1	669	G	C5'-C4'-C3'	-5.62	107.01	116.00
3	A1	1056	U	N1-C2-N3	5.62	118.27	114.90
3	A1	1502	A	N1-C2-N3	-5.62	126.49	129.30
17	AR	93	LEU	CB-CG-CD2	5.62	120.55	111.00
25	BB	225	C	O4'-C1'-C2'	-5.62	100.18	105.80
25	BB	977	G	N3-C4-C5	-5.62	125.79	128.60
1	AA	7	U	C5-C6-N1	-5.62	119.89	122.70
3	A1	319	G	C6-C5-N7	5.62	133.77	130.40
3	A1	414	A	C4-C5-N7	5.62	113.51	110.70
3	A1	480	U	N3-C4-O4	5.62	123.33	119.40
3	A1	833	G	N3-C4-N9	5.62	129.37	126.00
3	A1	1056	U	O4'-C1'-N1	5.62	112.69	108.20
3	A1	1490	U	C5-C6-N1	-5.62	119.89	122.70
11	AJ	69	THR	CA-CB-CG2	5.62	120.26	112.40
15	AO	197	VAL	CA-CB-CG1	5.62	119.33	110.90
24	BA	33	G	C2-N3-C4	-5.62	109.09	111.90
25	BB	660	C	C5-C4-N4	-5.62	116.27	120.20
25	BB	687	C	C1'-O4'-C4'	-5.62	105.41	109.90
25	BB	753	A	N7-C8-N9	-5.62	110.99	113.80
25	BB	857	G	N1-C2-N2	5.62	121.25	116.20
25	BB	1011	G	N3-C4-N9	5.62	129.37	126.00
25	BB	1047	G	C5'-C4'-O4'	5.62	115.84	109.10
25	BB	1210	G	N7-C8-N9	-5.62	110.29	113.10
25	BB	1297	C	N3-C4-N4	-5.62	114.07	118.00
25	BB	2432	A	C1'-O4'-C4'	-5.62	105.41	109.90
25	BB	2665	A	C5'-C4'-O4'	5.62	115.84	109.10
25	BB	2868	A	O5'-C5'-C4'	5.62	122.37	111.70
38	BO	93	ARG	CD-NE-CZ	5.62	131.46	123.60
1	AP	13	C	C5'-C4'-O4'	5.61	115.84	109.10
3	A1	57	G	O4'-C1'-C2'	5.61	112.65	107.60
3	A1	334	C	N1-C2-O2	5.61	122.27	118.90
3	A1	373	A	O4'-C1'-N9	5.61	112.69	108.20
3	A1	600	A	N9-C4-C5	5.61	108.05	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	770	C	C1'-O4'-C4'	-5.61	105.41	109.90
3	A1	1048	G	N1-C2-N3	5.61	127.27	123.90
3	A1	1242	G	C4-C5-C6	-5.61	115.43	118.80
3	A1	1284	C	N1-C2-N3	5.61	123.13	119.20
25	BB	57	C	C6-N1-C2	-5.61	118.06	120.30
25	BB	123	G	C5-C6-O6	5.61	131.97	128.60
25	BB	219	A	C4-C5-N7	-5.61	107.89	110.70
25	BB	485	C	C5'-C4'-C3'	-5.61	107.02	116.00
25	BB	749	A	N1-C2-N3	-5.61	126.49	129.30
25	BB	818	G	N3-C4-N9	5.61	129.37	126.00
25	BB	1368	G	C6-C5-N7	-5.61	127.03	130.40
25	BB	1577	C	C6-N1-C2	-5.61	118.05	120.30
25	BB	2257	U	O4'-C1'-N1	5.61	112.69	108.20
3	A1	82	G	N7-C8-N9	5.61	115.91	113.10
3	A1	241	G	O4'-C1'-N9	5.61	112.69	108.20
3	A1	248	C	C4'-C3'-C2'	-5.61	96.99	102.60
3	A1	748	G	N1-C2-N3	5.61	127.27	123.90
3	A1	1121	U	C5-C6-N1	-5.61	119.89	122.70
24	BA	82	U	C4-C5-C6	-5.61	116.33	119.70
25	BB	1309	G	C3'-C2'-C1'	5.61	105.99	101.50
25	BB	1561	C	C2-N3-C4	5.61	122.71	119.90
25	BB	1914	C	N1-C2-O2	5.61	122.27	118.90
25	BB	2459	A	C2-N3-C4	5.61	113.41	110.60
33	BJ	3	VAL	CG1-CB-CG2	-5.61	101.92	110.90
3	A1	326	G	N3-C4-C5	-5.61	125.80	128.60
3	A1	861	G	C1'-O4'-C4'	-5.61	105.41	109.90
3	A1	1031	C	N3-C2-O2	-5.61	117.97	121.90
3	A1	1269	A	C5-N7-C8	-5.61	101.09	103.90
3	A1	1531	A	C5-C6-N6	5.61	128.19	123.70
14	AN	35	TYR	CD1-CG-CD2	5.61	124.07	117.90
25	BB	58	G	C6-C5-N7	5.61	133.77	130.40
25	BB	227	A	O4'-C1'-C2'	5.61	112.65	107.60
25	BB	438	G	P-O3'-C3'	5.61	126.43	119.70
25	BB	831	G	N9-C4-C5	5.61	107.64	105.40
25	BB	1516	G	C4-C5-C6	-5.61	115.43	118.80
25	BB	1538	G	N7-C8-N9	5.61	115.91	113.10
25	BB	1686	C	C4-C5-C6	-5.61	114.59	117.40
25	BB	1909	C	N3-C4-C5	5.61	124.14	121.90
25	BB	2111	U	C5-C4-O4	5.61	129.27	125.90
25	BB	2121	G	C6-N1-C2	-5.61	121.73	125.10
25	BB	2262	U	N3-C4-C5	-5.61	111.23	114.60
25	BB	2457	U	C4-C5-C6	5.61	123.07	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2546	U	N3-C4-C5	-5.61	111.23	114.60
25	BB	2627	G	N7-C8-N9	5.61	115.91	113.10
25	BB	2633	G	C5'-C4'-C3'	-5.61	107.02	116.00
1	AA	38	A	C6-C5-N7	5.61	136.23	132.30
3	A1	150	U	N3-C4-O4	5.61	123.33	119.40
3	A1	254	G	C2-N3-C4	5.61	114.70	111.90
3	A1	308	C	O5'-C5'-C4'	-5.61	101.04	111.70
3	A1	1484	C	N1-C2-N3	-5.61	115.27	119.20
24	BA	24	G	C5-N7-C8	-5.61	101.50	104.30
25	BB	26	G	N3-C2-N2	-5.61	115.97	119.90
25	BB	277	G	O4'-C1'-N9	5.61	112.69	108.20
1	AA	56	C	N3-C4-C5	5.61	124.14	121.90
3	A1	1337	G	C5'-C4'-C3'	-5.61	107.03	116.00
3	A1	1373	G	N1-C2-N2	-5.61	111.15	116.20
24	BA	51	G	N1-C2-N2	5.61	121.25	116.20
25	BB	162	U	C5-C4-O4	-5.61	122.54	125.90
25	BB	432	A	N9-C1'-C2'	5.61	121.29	114.00
25	BB	846	U	O4'-C1'-N1	-5.61	103.71	108.20
25	BB	947	A	C5-C6-N6	5.61	128.19	123.70
25	BB	1961	C	C5-C6-N1	-5.61	118.20	121.00
25	BB	1968	G	N1-C2-N2	-5.61	111.15	116.20
25	BB	2046	G	C5-C6-N1	5.61	114.30	111.50
25	BB	2117	A	C6-C5-N7	5.61	136.23	132.30
25	BB	2131	U	P-O3'-C3'	5.61	126.43	119.70
25	BB	2254	C	O4'-C4'-C3'	5.61	110.59	106.10
25	BB	2273	A	C4-C5-C6	-5.61	114.20	117.00
25	BB	2579	C	C6-N1-C2	-5.61	118.06	120.30
41	BR	56	VAL	CA-CB-CG1	5.61	119.31	110.90
48	BY	34	VAL	N-CA-C	5.61	126.14	111.00
48	BY	122	VAL	CA-CB-CG2	5.61	119.31	110.90
50	B1	69	ARG	NE-CZ-NH2	5.61	123.10	120.30
54	B5	1	ALA	N-CA-CB	-5.61	102.25	110.10
1	AE	40	C	C2-N3-C4	5.61	122.70	119.90
3	A1	158	G	C4-C5-N7	5.61	113.04	110.80
3	A1	193	C	N3-C2-O2	-5.61	117.98	121.90
3	A1	280	C	C6-N1-C2	-5.61	118.06	120.30
3	A1	385	C	O4'-C1'-N1	5.61	112.69	108.20
3	A1	439	U	N1-C1'-C2'	5.61	121.29	114.00
3	A1	945	G	N1-C2-N3	5.61	127.26	123.90
3	A1	1276	G	C4-C5-C6	-5.61	115.44	118.80
3	A1	1351	U	N1-C2-N3	5.61	118.26	114.90
7	AF	59	VAL	CG1-CB-CG2	-5.61	101.93	110.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	AH	52	ARG	NE-CZ-NH1	5.61	123.10	120.30
12	AK	64	LEU	C-N-CA	5.61	135.72	121.70
25	BB	213	A	C4-C5-N7	5.61	113.50	110.70
25	BB	319	G	C5-C6-N1	5.61	114.30	111.50
25	BB	1944	U	N3-C4-O4	5.61	123.32	119.40
25	BB	2622	U	N1-C2-O2	-5.61	118.88	122.80
25	BB	2848	G	N9-C4-C5	5.61	107.64	105.40
3	A1	141	G	C3'-C2'-C1'	-5.60	97.02	101.50
3	A1	1367	C	C2'-C3'-O3'	5.60	122.67	113.70
3	A1	1521	C	C5-C4-N4	-5.60	116.28	120.20
6	AD	65	TYR	CB-CG-CD2	5.60	124.36	121.00
25	BB	842	U	N1-C2-N3	5.60	118.26	114.90
25	BB	1077	A	C4-C5-C6	-5.60	114.20	117.00
25	BB	1557	C	C3'-C2'-C1'	5.60	105.98	101.50
25	BB	2459	A	N1-C2-N3	-5.60	126.50	129.30
25	BB	2603	G	C5-C6-N1	5.60	114.30	111.50
25	BB	2726	A	C6-C5-N7	5.60	136.22	132.30
30	BG	64	ARG	NE-CZ-NH2	-5.60	117.50	120.30
3	A1	432	A	N3-C4-N9	-5.60	122.92	127.40
3	A1	721	G	C6-C5-N7	-5.60	127.04	130.40
3	A1	880	C	N3-C4-N4	-5.60	114.08	118.00
3	A1	987	G	O5'-C5'-C4'	-5.60	101.06	111.70
3	A1	1020	G	N1-C2-N2	-5.60	111.16	116.20
3	A1	1146	A	N7-C8-N9	5.60	116.60	113.80
8	AG	19	TYR	CD1-CE1-CZ	5.60	124.84	119.80
25	BB	354	A	C6-C5-N7	5.60	136.22	132.30
25	BB	373	U	N3-C4-O4	-5.60	115.48	119.40
25	BB	445	C	N3-C2-O2	-5.60	117.98	121.90
25	BB	743	A	C6-C5-N7	5.60	136.22	132.30
25	BB	871	U	C2-N1-C1'	-5.60	110.98	117.70
25	BB	1032	A	C5-C6-N6	5.60	128.18	123.70
25	BB	1415	U	C4-C5-C6	5.60	123.06	119.70
25	BB	1619	G	C5-C6-O6	-5.60	125.24	128.60
25	BB	1802	A	C3'-C2'-C1'	5.60	105.98	101.50
25	BB	2085	U	C3'-C2'-C1'	5.60	105.98	101.50
25	BB	2261	C	C5-C6-N1	-5.60	118.20	121.00
25	BB	2682	A	C6-C5-N7	5.60	136.22	132.30
25	BB	2895	G	P-O3'-C3'	5.60	126.42	119.70
31	BH	36	TYR	CB-CG-CD1	-5.60	117.64	121.00
49	BZ	143	ASP	CB-CG-OD1	5.60	123.34	118.30
1	AP	27	C	C1'-O4'-C4'	5.60	114.38	109.90
2	AM	10	U	N3-C4-O4	-5.60	115.48	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	346	G	C5-C6-N1	5.60	114.30	111.50
3	A1	698	G	C5-N7-C8	-5.60	101.50	104.30
3	A1	914	A	N1-C2-N3	5.60	132.10	129.30
3	A1	962	C	O4'-C1'-C2'	5.60	112.64	107.60
3	A1	1034	G	C6-C5-N7	5.60	133.76	130.40
3	A1	1056	U	C5'-C4'-C3'	-5.60	107.04	116.00
3	A1	1215	G	C5-C6-O6	5.60	131.96	128.60
25	BB	264	C	C4-C5-C6	5.60	120.20	117.40
25	BB	396	G	C6-N1-C2	-5.60	121.74	125.10
25	BB	1074	G	N1-C2-N3	5.60	127.26	123.90
25	BB	1295	C	N3-C4-N4	-5.60	114.08	118.00
25	BB	1965	C	C4-C5-C6	-5.60	114.60	117.40
25	BB	2307	G	N3-C4-C5	-5.60	125.80	128.60
25	BB	2312	U	C5'-C4'-C3'	5.60	124.96	116.00
25	BB	2702	G	O3'-P-O5'	-5.60	93.36	104.00
25	BB	2741	A	N1-C2-N3	-5.60	126.50	129.30
1	AE	49	C	C3'-C2'-C1'	-5.60	97.02	101.50
3	A1	29	U	C2'-C3'-O3'	5.60	122.66	113.70
3	A1	917	G	C4-C5-N7	-5.60	108.56	110.80
3	A1	940	C	C1'-O4'-C4'	-5.60	105.42	109.90
3	A1	968	A	P-O3'-C3'	5.60	126.42	119.70
3	A1	1164	G	N9-C4-C5	5.60	107.64	105.40
3	A1	1444	U	O3'-P-O5'	-5.60	93.36	104.00
3	A1	1499	A	C5-N7-C8	5.60	106.70	103.90
13	AL	76	THR	OG1-CB-CG2	-5.60	97.12	110.00
24	BA	61	G	C8-N9-C1'	5.60	134.28	127.00
25	BB	32	C	C4'-C3'-C2'	-5.60	97.00	102.60
25	BB	295	G	N1-C2-N3	5.60	127.26	123.90
25	BB	1462	C	C4-C5-C6	-5.60	114.60	117.40
25	BB	1570	A	C2-N3-C4	5.60	113.40	110.60
25	BB	1770	G	C4-C5-C6	-5.60	115.44	118.80
25	BB	1814	G	C5-C6-N1	5.60	114.30	111.50
25	BB	2084	C	C2-N3-C4	-5.60	117.10	119.90
25	BB	2712	C	C5-C6-N1	-5.60	118.20	121.00
1	AP	47	U	O4'-C1'-C2'	5.60	112.64	107.60
3	A1	344	A	C6-C5-N7	5.60	136.22	132.30
5	AC	43	TRP	CE2-CD2-CG	5.60	111.78	107.30
24	BA	33	G	C5'-C4'-O4'	5.60	115.82	109.10
24	BA	33	G	C5-N7-C8	-5.60	101.50	104.30
24	BA	104	A	O4'-C1'-N9	5.60	112.68	108.20
25	BB	273	G	O4'-C1'-N9	5.60	112.68	108.20
25	BB	318	C	C5-C6-N1	-5.60	118.20	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	379	G	P-O5'-C5'	5.60	129.86	120.90
25	BB	656	G	N3-C4-C5	-5.60	125.80	128.60
25	BB	782	A	C4'-C3'-C2'	-5.60	97.00	102.60
25	BB	956	G	C3'-C2'-C1'	-5.60	97.02	101.50
25	BB	1254	A	O5'-C5'-C4'	-5.60	101.06	111.70
25	BB	1787	A	C5-C6-N6	-5.60	119.22	123.70
25	BB	2021	C	C5-C6-N1	-5.60	118.20	121.00
25	BB	2434	A	C6-C5-N7	5.60	136.22	132.30
25	BB	2516	A	C5'-C4'-C3'	-5.60	107.04	116.00
1	AE	58	A	C3'-C2'-C1'	-5.60	97.02	101.50
3	A1	153	C	C5-C6-N1	-5.60	118.20	121.00
3	A1	374	A	C4-C5-C6	-5.60	114.20	117.00
25	BB	1845	G	C5-C6-N1	5.60	114.30	111.50
25	BB	2019	A	N7-C8-N9	5.60	116.60	113.80
25	BB	2349	G	C8-N9-C4	-5.60	104.16	106.40
25	BB	2591	C	C5'-C4'-O4'	5.60	115.81	109.10
53	B4	39	ALA	O-C-N	-5.60	113.75	122.70
1	AP	8	U	C5-C6-N1	-5.59	119.90	122.70
1	AE	9	A	C6-C5-N7	5.59	136.22	132.30
3	A1	46	G	N3-C4-C5	-5.59	125.80	128.60
3	A1	106	C	O4'-C1'-N1	5.59	112.68	108.20
3	A1	338	A	C8-N9-C4	-5.59	103.56	105.80
3	A1	1182	G	C4-N9-C1'	-5.59	119.23	126.50
3	A1	1423	G	N1-C2-N2	5.59	121.23	116.20
3	A1	1496	C	C4'-C3'-C2'	-5.59	97.01	102.60
24	BA	58	A	N1-C2-N3	-5.59	126.50	129.30
25	BB	194	G	N9-C4-C5	5.59	107.64	105.40
25	BB	245	G	N9-C4-C5	5.59	107.64	105.40
25	BB	597	G	N7-C8-N9	5.59	115.90	113.10
25	BB	662	G	N9-C4-C5	-5.59	103.16	105.40
25	BB	940	G	C5-N7-C8	-5.59	101.50	104.30
25	BB	1008	A	P-O3'-C3'	5.59	126.41	119.70
25	BB	1185	G	C5-C6-N1	-5.59	108.70	111.50
25	BB	1259	G	C5-N7-C8	-5.59	101.50	104.30
25	BB	1296	G	C4-C5-C6	-5.59	115.44	118.80
25	BB	1391	U	C5'-C4'-O4'	5.59	115.81	109.10
25	BB	1540	G	C4-C5-C6	-5.59	115.44	118.80
25	BB	1933	G	N1-C2-N3	-5.59	120.54	123.90
25	BB	2294	G	N1-C2-N3	5.59	127.26	123.90
25	BB	2731	G	C6-N1-C2	-5.59	121.74	125.10
37	BN	71	ASP	CB-CG-OD1	5.59	123.33	118.30
3	A1	274	A	C5-N7-C8	-5.59	101.10	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	298	A	C5-N7-C8	-5.59	101.10	103.90
3	A1	417	G	C4-C5-C6	-5.59	115.44	118.80
3	A1	1310	G	N1-C6-O6	-5.59	116.54	119.90
3	A1	1412	C	C5-C4-N4	5.59	124.11	120.20
5	AC	40	ALA	N-CA-CB	-5.59	102.27	110.10
25	BB	1165	A	C8-N9-C4	5.59	108.04	105.80
25	BB	1321	A	C5'-C4'-O4'	5.59	115.81	109.10
25	BB	1717	A	P-O3'-C3'	5.59	126.41	119.70
25	BB	2107	G	O4'-C4'-C3'	5.59	110.57	106.10
25	BB	2441	U	N1-C2-O2	-5.59	118.89	122.80
30	BG	54	LEU	CB-CG-CD1	5.59	120.51	111.00
42	BS	7	PRO	N-CA-C	5.59	126.64	112.10
1	AP	3	G	N1-C2-N2	-5.59	111.17	116.20
1	AE	63	C	N1-C2-N3	5.59	123.11	119.20
3	A1	661	G	N1-C2-N2	-5.59	111.17	116.20
3	A1	923	A	P-O3'-C3'	5.59	126.41	119.70
3	A1	1133	G	O5'-P-OP2	-5.59	100.67	105.70
5	AC	105	ARG	NE-CZ-NH2	-5.59	117.50	120.30
25	BB	351	C	N1-C2-N3	5.59	123.11	119.20
25	BB	599	A	P-O3'-C3'	5.59	126.41	119.70
25	BB	768	G	C5'-C4'-O4'	5.59	115.81	109.10
25	BB	973	A	C2-N3-C4	5.59	113.40	110.60
25	BB	1028	A	C5-C6-N6	-5.59	119.23	123.70
25	BB	1792	G	C8-N9-C4	-5.59	104.16	106.40
25	BB	1960	A	C5'-C4'-O4'	-5.59	102.39	109.10
25	BB	2730	C	C5'-C4'-C3'	-5.59	107.06	116.00
25	BB	2732	G	C4-C5-N7	-5.59	108.56	110.80
25	BB	2865	U	C2-N3-C4	-5.59	123.64	127.00
3	A1	326	G	O4'-C1'-N9	5.59	112.67	108.20
3	A1	1021	A	C6-N1-C2	-5.59	115.25	118.60
3	A1	1081	A	C6-C5-N7	5.59	136.21	132.30
3	A1	1419	G	N9-C4-C5	-5.59	103.16	105.40
13	AL	61	VAL	CG1-CB-CG2	-5.59	101.96	110.90
25	BB	55	G	O4'-C1'-C2'	-5.59	100.21	105.80
25	BB	660	C	N1-C2-O2	5.59	122.25	118.90
25	BB	784	G	N3-C4-C5	-5.59	125.81	128.60
25	BB	1300	G	C8-N9-C4	-5.59	104.16	106.40
25	BB	1361	G	C5-N7-C8	-5.59	101.51	104.30
25	BB	1418	G	N9-C4-C5	-5.59	103.16	105.40
25	BB	2100	G	N9-C4-C5	5.59	107.64	105.40
25	BB	295	G	C5-C6-O6	5.59	131.95	128.60
25	BB	518	G	N9-C1'-C2'	5.59	121.26	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	556	A	C2-N3-C4	5.59	113.39	110.60
25	BB	557	C	C6-N1-C2	-5.59	118.06	120.30
25	BB	782	A	P-O3'-C3'	5.59	126.41	119.70
25	BB	920	A	C4'-C3'-C2'	-5.59	97.01	102.60
25	BB	1254	A	C4'-C3'-C2'	-5.59	97.01	102.60
25	BB	1401	G	N7-C8-N9	5.59	115.89	113.10
25	BB	1746	A	O5'-C5'-C4'	-5.59	101.08	111.70
48	BY	158	GLY	C-N-CA	5.59	135.67	121.70
3	A1	342	C	C5'-C4'-C3'	-5.59	107.06	116.00
3	A1	442	G	C4-C5-N7	5.59	113.03	110.80
3	A1	1194	U	C2-N3-C4	-5.59	123.65	127.00
6	AD	51	VAL	CA-CB-CG2	5.59	119.28	110.90
20	AU	2	ARG	NH1-CZ-NH2	-5.59	113.25	119.40
24	BA	27	C	C2-N1-C1'	5.59	124.94	118.80
25	BB	218	A	C2-N3-C4	5.59	113.39	110.60
25	BB	694	U	C2-N3-C4	5.59	130.35	127.00
25	BB	832	U	O4'-C1'-N1	5.59	112.67	108.20
25	BB	1580	A	C5'-C4'-O4'	5.59	115.80	109.10
25	BB	1651	G	N3-C2-N2	-5.59	115.99	119.90
25	BB	1862	G	N3-C4-C5	-5.59	125.81	128.60
25	BB	2367	G	C3'-C2'-C1'	-5.59	97.03	101.50
25	BB	2624	G	C6-N1-C2	-5.59	121.75	125.10
25	BB	2820	A	O4'-C4'-C3'	5.59	110.57	106.10
1	AA	53	G	C5'-C4'-O4'	5.58	115.80	109.10
3	A1	1493	A	C5'-C4'-O4'	-5.58	102.40	109.10
25	BB	127	A	N3-C4-C5	-5.58	122.89	126.80
25	BB	1014	A	C6-N1-C2	-5.58	115.25	118.60
30	BG	94	TYR	CG-CD1-CE1	-5.58	116.83	121.30
3	A1	27	G	N7-C8-N9	5.58	115.89	113.10
3	A1	268	U	C4-C5-C6	5.58	123.05	119.70
3	A1	450	G	C6-N1-C2	-5.58	121.75	125.10
3	A1	535	A	C5-C6-N6	5.58	128.17	123.70
3	A1	1310	G	O4'-C1'-C2'	-5.58	100.22	105.80
3	A1	1364	U	C2-N1-C1'	5.58	124.40	117.70
7	AF	89	ARG	NH1-CZ-NH2	-5.58	113.26	119.40
24	BA	16	G	C5-C6-N1	5.58	114.29	111.50
24	BA	79	G	N1-C2-N2	-5.58	111.17	116.20
25	BB	206	U	C4'-C3'-C2'	-5.58	97.02	102.60
25	BB	225	C	N1-C2-N3	5.58	123.11	119.20
25	BB	705	A	N3-C4-C5	5.58	130.71	126.80
25	BB	997	G	C6-N1-C2	5.58	128.45	125.10
25	BB	1137	G	N1-C2-N3	-5.58	120.55	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1385	A	C5-C6-N6	5.58	128.17	123.70
25	BB	1420	A	C5-C6-N1	5.58	120.49	117.70
25	BB	2082	A	N7-C8-N9	5.58	116.59	113.80
25	BB	2117	A	C3'-C2'-C1'	-5.58	97.03	101.50
25	BB	2426	A	C5-N7-C8	-5.58	101.11	103.90
25	BB	2868	A	C5'-C4'-O4'	5.58	115.80	109.10
54	B5	55	PRO	N-CA-CB	5.58	110.00	103.30
1	AA	13	C	C5-C6-N1	-5.58	118.21	121.00
1	AA	57	G	C4-C5-C6	-5.58	115.45	118.80
3	A1	111	G	N1-C2-N2	-5.58	111.18	116.20
3	A1	164	G	C5'-C4'-C3'	-5.58	107.07	116.00
3	A1	445	G	C5-N7-C8	-5.58	101.51	104.30
3	A1	809	G	C1'-O4'-C4'	-5.58	105.44	109.90
3	A1	1243	C	N1-C2-N3	5.58	123.11	119.20
3	A1	1432	G	N3-C2-N2	-5.58	115.99	119.90
3	A1	1493	A	N9-C1'-C2'	5.58	121.26	114.00
25	BB	454	A	N9-C1'-C2'	5.58	121.26	114.00
25	BB	551	G	N1-C2-N2	5.58	121.22	116.20
25	BB	640	C	O4'-C1'-N1	-5.58	103.73	108.20
25	BB	841	G	C5'-C4'-C3'	-5.58	107.07	116.00
25	BB	1037	G	C3'-C2'-C1'	-5.58	97.03	101.50
25	BB	1098	A	C3'-C2'-C1'	5.58	105.97	101.50
25	BB	1110	G	C5-N7-C8	5.58	107.09	104.30
25	BB	1285	A	C3'-C2'-C1'	5.58	105.97	101.50
25	BB	1356	G	C5-C6-N1	5.58	114.29	111.50
25	BB	1519	G	N1-C2-N3	5.58	127.25	123.90
25	BB	1630	A	N9-C4-C5	5.58	108.03	105.80
25	BB	1902	C	C5'-C4'-C3'	-5.58	107.07	116.00
25	BB	2063	C	C5-C4-N4	5.58	124.11	120.20
25	BB	2072	C	C5-C6-N1	-5.58	118.21	121.00
25	BB	2165	C	C3'-C2'-C1'	5.58	105.97	101.50
25	BB	2513	A	C1'-O4'-C4'	-5.58	105.43	109.90
25	BB	2810	A	C5-N7-C8	-5.58	101.11	103.90
3	A1	402	G	C4-N9-C1'	-5.58	119.25	126.50
3	A1	502	A	C6-C5-N7	5.58	136.21	132.30
3	A1	526	C	C6-N1-C2	-5.58	118.07	120.30
3	A1	703	G	C3'-C2'-C1'	5.58	105.96	101.50
3	A1	1145	A	C6-C5-N7	5.58	136.21	132.30
3	A1	1441	A	P-O3'-C3'	5.58	126.40	119.70
25	BB	271	G	C5-C6-O6	5.58	131.95	128.60
25	BB	624	C	O3'-P-O5'	-5.58	93.40	104.00
25	BB	879	G	C5-C6-O6	-5.58	125.25	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1186	G	N7-C8-N9	5.58	115.89	113.10
25	BB	1923	U	C5-C6-N1	-5.58	119.91	122.70
25	BB	2167	U	C6-N1-C2	5.58	124.35	121.00
25	BB	2566	A	C8-N9-C4	-5.58	103.57	105.80
1	AE	25	C	C4-C5-C6	5.58	120.19	117.40
3	A1	46	G	N3-C2-N2	-5.58	116.00	119.90
3	A1	385	C	C5'-C4'-O4'	5.58	115.79	109.10
3	A1	728	A	N9-C4-C5	-5.58	103.57	105.80
3	A1	1126	U	C3'-C2'-C1'	5.58	105.96	101.50
8	AG	86	ALA	C-N-CA	5.58	135.65	121.70
23	AX	85	ASP	CB-CG-OD1	-5.58	113.28	118.30
25	BB	289	G	C1'-O4'-C4'	-5.58	105.44	109.90
25	BB	312	G	P-O3'-C3'	5.58	126.39	119.70
25	BB	612	G	C6-N1-C2	-5.58	121.75	125.10
25	BB	710	U	C3'-C2'-C1'	-5.58	97.04	101.50
25	BB	810	U	O4'-C1'-C2'	5.58	112.62	107.60
25	BB	1232	G	C8-N9-C1'	5.58	134.25	127.00
25	BB	1519	G	N3-C2-N2	-5.58	116.00	119.90
25	BB	1759	A	O5'-C5'-C4'	-5.58	101.10	111.70
25	BB	1982	U	C1'-O4'-C4'	-5.58	105.44	109.90
25	BB	2238	G	N1-C6-O6	-5.58	116.55	119.90
25	BB	2557	G	N3-C4-N9	-5.58	122.65	126.00
3	A1	1426	G	C6-C5-N7	5.58	133.75	130.40
3	A1	1438	G	N7-C8-N9	-5.58	110.31	113.10
7	AF	67	ASP	CB-CG-OD2	5.58	123.32	118.30
14	AN	53	MET	CG-SD-CE	5.58	109.12	100.20
25	BB	420	C	C6-N1-C2	-5.58	118.07	120.30
25	BB	1526	C	C4-C5-C6	-5.58	114.61	117.40
25	BB	1759	A	C4-C5-N7	5.58	113.49	110.70
25	BB	1834	U	C5-C6-N1	-5.58	119.91	122.70
25	BB	1949	G	C5-N7-C8	5.58	107.09	104.30
25	BB	1994	C	N3-C4-N4	-5.58	114.10	118.00
25	BB	2013	A	C3'-C2'-C1'	5.58	105.96	101.50
25	BB	2083	G	N3-C2-N2	-5.58	116.00	119.90
25	BB	2279	G	C8-N9-C4	-5.58	104.17	106.40
25	BB	2333	A	N3-C4-N9	-5.58	122.94	127.40
25	BB	2506	U	C5'-C4'-O4'	5.58	115.79	109.10
1	AA	52	U	C5-C6-N1	-5.58	119.91	122.70
3	A1	72	A	C5-C6-N1	5.58	120.49	117.70
3	A1	747	A	C1'-O4'-C4'	5.58	114.36	109.90
3	A1	765	G	P-O3'-C3'	5.58	126.39	119.70
3	A1	789	U	C5-C4-O4	-5.58	122.56	125.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	921	U	C5'-C4'-O4'	5.58	115.79	109.10
3	A1	997	U	N1-C2-N3	5.58	118.25	114.90
17	AR	110	ARG	CD-NE-CZ	5.58	131.41	123.60
25	BB	154	U	C5-C6-N1	-5.58	119.91	122.70
25	BB	690	G	C2'-C3'-O3'	5.58	122.62	113.70
25	BB	1387	A	C4'-C3'-C2'	-5.58	97.02	102.60
25	BB	1411	U	C4-C5-C6	5.58	123.05	119.70
25	BB	1930	G	C6-C5-N7	-5.58	127.06	130.40
25	BB	2302	U	N3-C2-O2	-5.58	118.30	122.20
25	BB	2355	G	C4-C5-C6	5.58	122.15	118.80
29	BF	44	ARG	NE-CZ-NH2	5.58	123.09	120.30
48	BY	13	ARG	NE-CZ-NH2	5.58	123.09	120.30
1	AA	42	G	C4'-C3'-C2'	-5.57	97.03	102.60
1	AE	2	C	C5'-C4'-C3'	-5.57	107.08	116.00
3	A1	196	A	C5-N7-C8	-5.57	101.11	103.90
3	A1	450	G	N1-C2-N3	5.57	127.24	123.90
3	A1	608	A	N9-C4-C5	-5.57	103.57	105.80
3	A1	1256	A	C1'-O4'-C4'	-5.57	105.44	109.90
3	A1	1258	G	C5-C6-O6	-5.57	125.26	128.60
3	A1	1442	G	C8-N9-C4	-5.57	104.17	106.40
8	AG	23	ARG	C-N-CA	5.57	135.64	121.70
24	BA	79	G	O4'-C1'-C2'	-5.57	100.23	105.80
25	BB	105	C	C5-C4-N4	-5.57	116.30	120.20
25	BB	448	U	N1-C2-N3	5.57	118.24	114.90
25	BB	1281	G	C5-C6-N1	5.57	114.29	111.50
25	BB	1495	A	N7-C8-N9	5.57	116.59	113.80
25	BB	1515	A	N1-C2-N3	-5.57	126.51	129.30
25	BB	1677	A	N9-C4-C5	-5.57	103.57	105.80
25	BB	1939	U	C4-C5-C6	5.57	123.04	119.70
25	BB	1945	G	O4'-C1'-N9	5.57	112.66	108.20
25	BB	2191	A	C6-C5-N7	5.57	136.20	132.30
25	BB	2199	A	N9-C1'-C2'	5.57	121.25	114.00
25	BB	2416	C	C3'-C2'-C1'	5.57	105.96	101.50
25	BB	2483	C	C5-C4-N4	5.57	124.10	120.20
25	BB	2821	A	N7-C8-N9	-5.57	111.01	113.80
25	BB	2901	C	C2-N3-C4	-5.57	117.11	119.90
29	BF	64	TRP	CE2-CD2-CG	-5.57	102.84	107.30
3	A1	98	A	C4-C5-C6	-5.57	114.21	117.00
3	A1	1052	U	N3-C2-O2	-5.57	118.30	122.20
3	A1	1458	G	N1-C6-O6	-5.57	116.56	119.90
17	AR	93	LEU	CB-CA-C	5.57	120.79	110.20
20	AU	91	ARG	NE-CZ-NH1	5.57	123.09	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	305	C	C4'-C3'-C2'	-5.57	97.03	102.60
25	BB	726	G	P-O5'-C5'	5.57	129.81	120.90
25	BB	1815	A	N7-C8-N9	5.57	116.59	113.80
25	BB	1825	U	O5'-C5'-C4'	5.57	122.29	111.70
25	BB	2367	G	N3-C4-C5	-5.57	125.81	128.60
25	BB	2516	A	N1-C6-N6	-5.57	115.26	118.60
3	A1	39	G	N3-C2-N2	-5.57	116.00	119.90
3	A1	906	A	O4'-C4'-C3'	5.57	110.56	106.10
3	A1	976	G	N3-C4-C5	-5.57	125.81	128.60
3	A1	1153	G	C8-N9-C4	-5.57	104.17	106.40
6	AD	53	ARG	NE-CZ-NH1	5.57	123.08	120.30
12	AK	47	ARG	NE-CZ-NH2	-5.57	117.51	120.30
21	AV	29	SER	C-N-CA	5.57	135.63	121.70
25	BB	135	U	N1-C1'-C2'	-5.57	105.87	112.00
25	BB	517	C	C4'-C3'-C2'	-5.57	97.03	102.60
25	BB	535	G	C5-C6-O6	5.57	131.94	128.60
25	BB	541	A	C5-C6-N6	5.57	128.16	123.70
25	BB	565	C	C5-C4-N4	-5.57	116.30	120.20
25	BB	771	G	N1-C2-N3	-5.57	120.56	123.90
25	BB	908	C	P-O3'-C3'	5.57	126.39	119.70
25	BB	1073	A	O4'-C1'-C2'	5.57	112.61	107.60
25	BB	1103	A	C5'-C4'-C3'	-5.57	107.09	116.00
25	BB	1115	G	C6-C5-N7	-5.57	127.06	130.40
25	BB	1215	G	C4-C5-C6	-5.57	115.46	118.80
25	BB	1280	G	C4'-C3'-C2'	-5.57	97.03	102.60
25	BB	1342	A	O4'-C1'-C2'	-5.57	100.23	105.80
25	BB	1453	A	O4'-C1'-N9	5.57	112.66	108.20
25	BB	1500	G	N1-C2-N2	-5.57	111.19	116.20
25	BB	1510	G	C3'-C2'-C1'	-5.57	97.04	101.50
25	BB	1561	C	C1'-O4'-C4'	-5.57	105.44	109.90
25	BB	1569	A	C4-C5-N7	5.57	113.48	110.70
25	BB	1631	G	N3-C4-C5	-5.57	125.81	128.60
25	BB	1761	C	O4'-C1'-N1	5.57	112.66	108.20
25	BB	1847	A	N9-C4-C5	-5.57	103.57	105.80
25	BB	2056	G	N3-C4-C5	-5.57	125.81	128.60
25	BB	2060	A	N7-C8-N9	-5.57	111.02	113.80
25	BB	2297	A	O4'-C1'-N9	-5.57	103.74	108.20
25	BB	2658	C	N3-C2-O2	-5.57	118.00	121.90
25	BB	2787	C	P-O3'-C3'	5.57	126.38	119.70
25	BB	2812	G	C4-C5-N7	5.57	113.03	110.80
25	BB	2889	C	C3'-C2'-C1'	-5.57	97.04	101.50
27	BD	10	VAL	O-C-N	5.57	131.61	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	123	U	C6-N1-C1'	-5.57	113.40	121.20
3	A1	153	C	N3-C2-O2	-5.57	118.00	121.90
3	A1	255	G	C5'-C4'-C3'	-5.57	107.09	116.00
25	BB	81	G	C5-C6-O6	-5.57	125.26	128.60
25	BB	636	G	C4-C5-C6	-5.57	115.46	118.80
25	BB	849	A	C5-C6-N1	5.57	120.48	117.70
25	BB	1068	G	N1-C6-O6	-5.57	116.56	119.90
25	BB	2407	A	C3'-C2'-C1'	5.57	105.95	101.50
25	BB	2457	U	O4'-C1'-N1	5.57	112.66	108.20
3	A1	154	U	C4-C5-C6	5.57	123.04	119.70
3	A1	905	U	C2-N3-C4	-5.57	123.66	127.00
3	A1	1111	A	C3'-C2'-C1'	-5.57	97.05	101.50
3	A1	1169	A	N1-C6-N6	-5.57	115.26	118.60
3	A1	1233	G	C5-C6-N1	5.57	114.28	111.50
3	A1	1501	C	C4'-C3'-C2'	-5.57	97.03	102.60
3	A1	1526	G	N9-C1'-C2'	5.57	121.24	114.00
25	BB	533	G	N3-C4-C5	-5.57	125.82	128.60
25	BB	622	G	C3'-C2'-C1'	5.57	105.95	101.50
25	BB	708	G	C4-C5-N7	5.57	113.03	110.80
25	BB	816	C	C5-C4-N4	5.57	124.10	120.20
25	BB	903	C	C6-N1-C2	-5.57	118.07	120.30
25	BB	997	G	N9-C1'-C2'	-5.57	105.88	112.00
25	BB	1432	G	C5'-C4'-O4'	5.57	115.78	109.10
25	BB	2361	G	N1-C6-O6	-5.57	116.56	119.90
25	BB	2552	U	C2-N3-C4	-5.57	123.66	127.00
25	BB	2639	A	C5'-C4'-O4'	5.57	115.78	109.10
3	A1	75	G	N1-C6-O6	-5.57	116.56	119.90
3	A1	165	G	C3'-C2'-C1'	5.57	105.95	101.50
3	A1	489	C	N3-C2-O2	-5.57	118.00	121.90
3	A1	506	G	N9-C4-C5	5.57	107.63	105.40
3	A1	577	G	N9-C1'-C2'	-5.57	105.88	112.00
3	A1	720	C	N3-C2-O2	-5.57	118.00	121.90
3	A1	1043	G	N1-C2-N3	5.57	127.24	123.90
25	BB	389	G	N3-C4-C5	-5.57	125.82	128.60
25	BB	656	G	C5'-C4'-O4'	5.57	115.78	109.10
25	BB	887	U	P-O3'-C3'	5.57	126.38	119.70
25	BB	1568	G	C5'-C4'-O4'	5.57	115.78	109.10
25	BB	1672	A	N7-C8-N9	-5.57	111.02	113.80
25	BB	2177	C	C5'-C4'-C3'	-5.57	107.09	116.00
25	BB	2374	C	C4'-C3'-C2'	-5.57	97.03	102.60
25	BB	2510	C	C5-C6-N1	-5.57	118.22	121.00
25	BB	2531	A	C4-C5-C6	-5.57	114.22	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2671	G	N7-C8-N9	-5.57	110.32	113.10
25	BB	2700	A	C4-C5-N7	5.57	113.48	110.70
1	AA	18	G	C3'-C2'-C1'	-5.56	97.05	101.50
3	A1	188	C	N1-C1'-C2'	5.56	121.23	114.00
3	A1	293	G	O4'-C1'-N9	-5.56	103.75	108.20
3	A1	330	C	C2'-C3'-O3'	5.56	122.60	113.70
3	A1	823	C	C4'-C3'-C2'	-5.56	97.04	102.60
25	BB	1052	C	C1'-O4'-C4'	-5.56	105.45	109.90
25	BB	2651	C	N3-C2-O2	-5.56	118.00	121.90
36	BM	35	ALA	N-CA-CB	-5.56	102.31	110.10
3	A1	658	C	C5-C6-N1	-5.56	118.22	121.00
3	A1	1310	G	C4-C5-C6	5.56	122.14	118.80
3	A1	1354	U	C4'-C3'-C2'	-5.56	97.04	102.60
3	A1	1401	G	O3'-P-O5'	5.56	114.57	104.00
25	BB	409	G	N1-C2-N2	-5.56	111.19	116.20
25	BB	448	U	C6-N1-C2	-5.56	117.66	121.00
25	BB	564	C	C6-N1-C2	-5.56	118.08	120.30
25	BB	611	C	C5-C6-N1	5.56	123.78	121.00
25	BB	838	C	C4-C5-C6	-5.56	114.62	117.40
25	BB	1076	C	N3-C4-N4	-5.56	114.11	118.00
25	BB	1100	C	O4'-C1'-N1	5.56	112.65	108.20
25	BB	1115	G	N1-C2-N2	5.56	121.21	116.20
25	BB	1208	C	C4'-C3'-C2'	-5.56	97.04	102.60
25	BB	1433	A	C3'-C2'-C1'	-5.56	97.05	101.50
25	BB	2100	G	C4-C5-C6	-5.56	115.46	118.80
25	BB	2239	G	N3-C4-C5	-5.56	125.82	128.60
25	BB	2449	U	N3-C4-O4	-5.56	115.51	119.40
30	BG	30	ARG	NE-CZ-NH2	-5.56	117.52	120.30
3	A1	170	U	C5'-C4'-C3'	-5.56	107.10	116.00
3	A1	308	C	N1-C2-O2	-5.56	115.56	118.90
7	AF	112	ARG	NE-CZ-NH2	5.56	123.08	120.30
12	AK	47	ARG	CD-NE-CZ	5.56	131.39	123.60
25	BB	1070	A	C5-C6-N1	5.56	120.48	117.70
25	BB	1788	C	P-O3'-C3'	5.56	126.37	119.70
25	BB	2193	G	C4'-C3'-C2'	5.56	108.16	102.60
25	BB	2400	G	N1-C2-N3	5.56	127.24	123.90
3	A1	799	G	N9-C1'-C2'	-5.56	105.88	112.00
3	A1	1166	G	C3'-C2'-C1'	5.56	105.95	101.50
15	AO	129	PHE	CB-CG-CD1	5.56	124.69	120.80
25	BB	95	A	C5-N7-C8	-5.56	101.12	103.90
25	BB	218	A	N3-C4-C5	5.56	130.69	126.80
25	BB	431	U	N1-C2-O2	-5.56	118.91	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	605	G	N7-C8-N9	-5.56	110.32	113.10
25	BB	636	G	O3'-P-O5'	5.56	114.56	104.00
25	BB	648	G	C8-N9-C4	-5.56	104.18	106.40
25	BB	786	C	C3'-C2'-C1'	5.56	105.95	101.50
25	BB	825	A	N3-C4-N9	-5.56	122.95	127.40
25	BB	947	A	N9-C4-C5	-5.56	103.58	105.80
25	BB	1911	U	C4'-C3'-C2'	-5.56	97.04	102.60
25	BB	2103	C	N1-C2-O2	5.56	122.24	118.90
25	BB	2318	G	C5-C6-N1	5.56	114.28	111.50
25	BB	2321	U	N1-C1'-C2'	-5.56	105.88	112.00
30	BG	86	ARG	CD-NE-CZ	5.56	131.38	123.60
31	BH	2	ASP	C-N-CA	5.56	135.60	121.70
35	BL	50	VAL	CG1-CB-CG2	-5.56	102.01	110.90
3	A1	105	G	C5-C6-O6	-5.56	125.27	128.60
3	A1	156	C	N3-C2-O2	-5.56	118.01	121.90
3	A1	418	C	N3-C4-N4	5.56	121.89	118.00
3	A1	852	G	C5'-C4'-C3'	-5.56	107.11	116.00
3	A1	1134	G	C4-C5-C6	-5.56	115.47	118.80
22	AW	53	LEU	O-C-N	5.56	131.59	122.70
25	BB	283	G	P-O3'-C3'	5.56	126.37	119.70
25	BB	469	G	C8-N9-C4	-5.56	104.18	106.40
25	BB	519	U	C4'-C3'-C2'	-5.56	97.04	102.60
25	BB	566	U	N1-C2-O2	5.56	126.69	122.80
25	BB	608	A	C2-N3-C4	5.56	113.38	110.60
25	BB	927	A	O4'-C4'-C3'	5.56	110.55	106.10
25	BB	948	C	C5-C6-N1	-5.56	118.22	121.00
25	BB	1297	C	N3-C2-O2	-5.56	118.01	121.90
25	BB	1412	U	O4'-C4'-C3'	5.56	110.55	106.10
25	BB	2165	C	N3-C4-C5	5.56	124.12	121.90
25	BB	2526	G	N3-C4-N9	-5.56	122.67	126.00
25	BB	2631	G	C1'-O4'-C4'	5.56	114.35	109.90
28	BE	132	ARG	NH1-CZ-NH2	-5.56	113.29	119.40
48	BY	169	ARG	CB-CA-C	5.56	121.51	110.40
3	A1	138	G	C4-C5-N7	-5.56	108.58	110.80
3	A1	1155	A	C5'-C4'-C3'	-5.56	107.11	116.00
25	BB	640	C	C5'-C4'-O4'	5.56	115.77	109.10
25	BB	820	A	C5-C6-N6	5.56	128.15	123.70
25	BB	1091	G	C8-N9-C1'	5.56	134.22	127.00
25	BB	1136	G	C5-C6-O6	5.56	131.93	128.60
25	BB	1168	G	C5-N7-C8	5.56	107.08	104.30
25	BB	1794	A	C6-N1-C2	-5.56	115.27	118.60
27	BD	16	ALA	C-N-CA	5.56	135.59	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	BI	13	LYS	N-CA-CB	-5.56	100.60	110.60
3	A1	147	G	N1-C2-N3	5.55	127.23	123.90
3	A1	182	A	O4'-C4'-C3'	5.55	110.54	106.10
3	A1	1252	A	N7-C8-N9	-5.55	111.02	113.80
3	A1	1404	C	C2-N3-C4	-5.55	117.12	119.90
3	A1	1464	U	C5'-C4'-O4'	5.55	115.77	109.10
22	AW	104	THR	CA-CB-CG2	5.55	120.18	112.40
25	BB	163	C	C6-N1-C1'	-5.55	114.14	120.80
25	BB	226	A	C6-N1-C2	-5.55	115.27	118.60
25	BB	338	G	C5'-C4'-O4'	5.55	115.77	109.10
25	BB	712	G	C6-N1-C2	-5.55	121.77	125.10
25	BB	822	G	C6-N1-C2	-5.55	121.77	125.10
25	BB	1336	A	C2-N3-C4	5.55	113.38	110.60
25	BB	2633	G	C5'-C4'-O4'	5.55	115.77	109.10
25	BB	2776	A	C4-C5-N7	-5.55	107.92	110.70
25	BB	2852	G	C5'-C4'-O4'	5.55	115.77	109.10
33	BJ	1	ALA	N-CA-CB	-5.55	102.32	110.10
51	B2	98	PHE	CB-CG-CD2	5.55	124.69	120.80
3	A1	56	U	C3'-C2'-C1'	5.55	105.94	101.50
3	A1	330	C	O4'-C1'-N1	5.55	112.64	108.20
3	A1	1090	U	C5-C4-O4	-5.55	122.57	125.90
3	A1	1107	C	C6-N1-C2	-5.55	118.08	120.30
25	BB	283	G	C6-N1-C2	-5.55	121.77	125.10
25	BB	690	G	N9-C4-C5	5.55	107.62	105.40
25	BB	809	G	C4-C5-C6	-5.55	115.47	118.80
25	BB	857	G	C4-C5-C6	-5.55	115.47	118.80
25	BB	958	U	C4-C5-C6	5.55	123.03	119.70
1	AP	51	G	N3-C4-C5	-5.55	125.82	128.60
1	AP	71	G	C4'-C3'-C2'	-5.55	97.05	102.60
3	A1	578	C	C3'-C2'-C1'	5.55	105.94	101.50
3	A1	886	G	C2-N3-C4	-5.55	109.12	111.90
3	A1	949	A	N9-C4-C5	5.55	108.02	105.80
3	A1	1399	C	C1'-O4'-C4'	-5.55	105.46	109.90
24	BA	8	C	C5-C6-N1	5.55	123.78	121.00
24	BA	51	G	N3-C4-C5	-5.55	125.82	128.60
25	BB	251	A	C4-C5-N7	5.55	113.48	110.70
25	BB	295	G	C6-N1-C2	-5.55	121.77	125.10
25	BB	465	G	C6-C5-N7	5.55	133.73	130.40
25	BB	529	A	C1'-O4'-C4'	-5.55	105.46	109.90
25	BB	854	C	N1-C2-O2	5.55	122.23	118.90
25	BB	1143	A	C6-N1-C2	-5.55	115.27	118.60
25	BB	1500	G	O4'-C4'-C3'	5.55	110.54	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1686	C	C5-C4-N4	5.55	124.09	120.20
25	BB	2167	U	C1'-O4'-C4'	-5.55	105.46	109.90
25	BB	2625	G	N3-C4-N9	5.55	129.33	126.00
27	BD	116	ILE	CA-CB-CG1	5.55	121.55	111.00
51	B2	46	LYS	CB-CG-CD	5.55	126.04	111.60
1	AP	60	C	C6-N1-C2	-5.55	118.08	120.30
1	AE	25	C	N3-C4-C5	5.55	124.12	121.90
3	A1	132	C	O4'-C4'-C3'	5.55	110.54	106.10
3	A1	337	G	N9-C1'-C2'	5.55	121.21	114.00
3	A1	417	G	C5-C6-O6	5.55	131.93	128.60
3	A1	503	C	P-O3'-C3'	5.55	126.36	119.70
3	A1	566	G	O4'-C4'-C3'	5.55	110.54	106.10
3	A1	822	U	C2-N3-C4	-5.55	123.67	127.00
3	A1	1030	U	C5'-C4'-C3'	-5.55	107.12	116.00
3	A1	1366	C	O4'-C1'-N1	5.55	112.64	108.20
24	BA	85	G	C5-C6-N1	5.55	114.28	111.50
24	BA	89	U	C2-N3-C4	5.55	130.33	127.00
25	BB	206	U	N3-C4-C5	-5.55	111.27	114.60
25	BB	1136	G	C8-N9-C1'	5.55	134.22	127.00
25	BB	1433	A	N3-C4-C5	5.55	130.69	126.80
25	BB	2110	G	N1-C6-O6	-5.55	116.57	119.90
25	BB	2266	A	C6-N1-C2	5.55	121.93	118.60
49	BZ	147	TYR	CB-CG-CD2	-5.55	117.67	121.00
1	AP	32	C	C5'-C4'-O4'	5.55	115.76	109.10
3	A1	376	G	C6-N1-C2	-5.55	121.77	125.10
3	A1	974	A	O5'-P-OP1	-5.55	100.71	105.70
3	A1	1424	U	N3-C2-O2	-5.55	118.32	122.20
25	BB	68	G	C1'-O4'-C4'	-5.55	105.46	109.90
25	BB	280	U	N1-C2-O2	5.55	126.68	122.80
25	BB	377	G	N1-C2-N3	5.55	127.23	123.90
25	BB	473	G	C4'-C3'-O3'	5.55	124.09	113.00
25	BB	741	U	O4'-C1'-N1	5.55	112.64	108.20
25	BB	746	U	C2'-C3'-O3'	5.55	122.58	113.70
25	BB	1547	C	O5'-C5'-C4'	5.55	122.24	111.70
25	BB	1634	A	C2-N3-C4	5.55	113.37	110.60
25	BB	1973	G	C5-C6-O6	-5.55	125.27	128.60
25	BB	2443	C	P-O3'-C3'	5.55	126.36	119.70
25	BB	2482	A	C4-C5-C6	-5.55	114.23	117.00
25	BB	2495	G	C2-N3-C4	5.55	114.67	111.90
1	AA	73	A	C2-N3-C4	-5.55	107.83	110.60
1	AE	11	C	N3-C4-C5	-5.55	119.68	121.90
1	AE	52	U	O4'-C4'-C3'	5.55	110.54	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	188	C	O4'-C1'-C2'	-5.55	100.25	105.80
3	A1	229	U	C3'-C2'-C1'	5.55	105.94	101.50
3	A1	730	G	C5'-C4'-C3'	-5.55	107.13	116.00
3	A1	813	U	N3-C2-O2	-5.55	118.32	122.20
3	A1	985	C	N1-C2-O2	5.55	122.23	118.90
3	A1	1077	G	O4'-C1'-N9	-5.55	103.76	108.20
3	A1	1415	G	C6-N1-C2	-5.55	121.77	125.10
3	A1	1430	A	C5-C6-N6	5.55	128.14	123.70
6	AD	97	VAL	CB-CA-C	5.55	121.94	111.40
25	BB	17	G	C5'-C4'-C3'	-5.55	107.12	116.00
25	BB	293	U	N3-C2-O2	-5.55	118.32	122.20
25	BB	667	U	N1-C2-N3	5.55	118.23	114.90
25	BB	795	C	N1-C2-N3	5.55	123.08	119.20
25	BB	829	A	N1-C2-N3	-5.55	126.53	129.30
25	BB	1357	C	C6-N1-C2	5.55	122.52	120.30
25	BB	1523	U	O4'-C1'-N1	5.55	112.64	108.20
25	BB	1599	U	C2-N3-C4	-5.55	123.67	127.00
25	BB	2193	G	N3-C4-C5	-5.55	125.83	128.60
25	BB	2209	G	O4'-C4'-C3'	5.55	110.54	106.10
25	BB	2346	A	C6-C5-N7	5.55	136.18	132.30
25	BB	2471	A	O4'-C4'-C3'	-5.55	98.45	104.00
25	BB	2632	A	C4'-C3'-C2'	-5.55	97.05	102.60
30	BG	16	HIS	CA-CB-CG	-5.55	104.17	113.60
52	B3	23	ILE	CA-CB-CG2	5.55	121.99	110.90
3	A1	433	G	N7-C8-N9	5.54	115.87	113.10
3	A1	1038	C	C2-N3-C4	-5.54	117.13	119.90
25	BB	86	G	N3-C4-C5	-5.54	125.83	128.60
25	BB	1262	A	N7-C8-N9	-5.54	111.03	113.80
25	BB	1341	G	C5'-C4'-O4'	5.54	115.75	109.10
25	BB	1962	C	C2-N1-C1'	5.54	124.90	118.80
25	BB	2655	G	N7-C8-N9	5.54	115.87	113.10
25	BB	2766	A	C5'-C4'-O4'	5.54	115.75	109.10
33	BJ	10	ARG	CD-NE-CZ	5.54	131.36	123.60
1	AP	32	C	C1'-O4'-C4'	5.54	114.33	109.90
2	AM	17	U	N3-C2-O2	-5.54	118.32	122.20
3	A1	199	A	C5'-C4'-O4'	5.54	115.75	109.10
3	A1	414	A	N9-C4-C5	-5.54	103.58	105.80
3	A1	536	C	C2'-C3'-O3'	5.54	122.57	113.70
3	A1	682	G	O4'-C4'-C3'	5.54	110.53	106.10
3	A1	969	A	C6-N1-C2	-5.54	115.27	118.60
3	A1	1141	C	N1-C2-O2	5.54	122.23	118.90
3	A1	1178	G	C5-N7-C8	-5.54	101.53	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
5	AC	52	ARG	CD-NE-CZ	5.54	131.36	123.60
8	AG	58	ARG	NE-CZ-NH1	5.54	123.07	120.30
24	BA	91	C	C1'-O4'-C4'	-5.54	105.47	109.90
25	BB	281	C	N1-C2-N3	5.54	123.08	119.20
25	BB	579	G	N3-C4-C5	-5.54	125.83	128.60
25	BB	755	U	C5-C6-N1	-5.54	119.93	122.70
25	BB	866	A	C4'-C3'-C2'	-5.54	97.06	102.60
25	BB	886	A	O4'-C1'-C2'	5.54	112.59	107.60
25	BB	1138	G	C8-N9-C4	-5.54	104.18	106.40
25	BB	1195	G	C3'-C2'-C1'	5.54	105.93	101.50
25	BB	1282	U	C6-N1-C2	-5.54	117.67	121.00
25	BB	1288	G	C8-N9-C4	-5.54	104.18	106.40
25	BB	1348	C	N3-C4-N4	-5.54	114.12	118.00
25	BB	1489	C	N3-C4-C5	5.54	124.12	121.90
25	BB	2207	C	C1'-O4'-C4'	5.54	114.33	109.90
25	BB	2516	A	O4'-C1'-N9	5.54	112.63	108.20
25	BB	2781	A	O4'-C4'-C3'	5.54	110.53	106.10
25	BB	2878	U	C5-C4-O4	-5.54	122.57	125.90
41	BR	28	LEU	CB-CG-CD1	5.54	120.42	111.00
42	BS	11	GLU	CA-CB-CG	5.54	125.60	113.40
1	AA	45	G	C8-N9-C4	-5.54	104.18	106.40
3	A1	97	G	C5'-C4'-C3'	-5.54	107.13	116.00
3	A1	116	A	C1'-O4'-C4'	-5.54	105.47	109.90
3	A1	369	G	C5-C6-O6	5.54	131.93	128.60
3	A1	712	A	N7-C8-N9	5.54	116.57	113.80
3	A1	868	C	C5-C4-N4	5.54	124.08	120.20
3	A1	877	G	N1-C6-O6	-5.54	116.58	119.90
3	A1	1236	A	N7-C8-N9	5.54	116.57	113.80
3	A1	1416	G	N3-C4-N9	-5.54	122.68	126.00
20	AU	140	VAL	CG1-CB-CG2	-5.54	102.03	110.90
25	BB	168	G	C2-N3-C4	-5.54	109.13	111.90
25	BB	636	G	O4'-C1'-C2'	5.54	112.59	107.60
25	BB	677	A	C2-N3-C4	5.54	113.37	110.60
25	BB	805	G	O4'-C4'-C3'	5.54	110.53	106.10
25	BB	817	C	C5-C4-N4	5.54	124.08	120.20
25	BB	1085	A	C5'-C4'-O4'	-5.54	102.45	109.10
25	BB	1313	U	C2-N3-C4	-5.54	123.67	127.00
25	BB	1805	A	C4-C5-N7	-5.54	107.93	110.70
25	BB	1951	U	N3-C4-C5	-5.54	111.28	114.60
25	BB	2077	A	N3-C4-C5	-5.54	122.92	126.80
25	BB	2231	U	C2-N3-C4	-5.54	123.67	127.00
25	BB	2334	U	N1-C2-N3	5.54	118.22	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2719	G	C4-C5-C6	-5.54	115.47	118.80
25	BB	2808	G	N3-C2-N2	5.54	123.78	119.90
49	BZ	187	LEU	CB-CG-CD2	5.54	120.42	111.00
3	A1	369	G	O4'-C1'-N9	5.54	112.63	108.20
3	A1	557	G	C3'-C2'-C1'	5.54	105.93	101.50
3	A1	918	A	O4'-C1'-N9	5.54	112.63	108.20
3	A1	1186	G	C2-N3-C4	5.54	114.67	111.90
6	AD	79	ILE	CA-CB-CG1	5.54	121.53	111.00
19	AT	89	VAL	C-N-CA	5.54	135.55	121.70
25	BB	1165	A	C5'-C4'-O4'	5.54	115.75	109.10
25	BB	2367	G	C2-N3-C4	5.54	114.67	111.90
3	A1	32	A	C5'-C4'-C3'	-5.54	107.14	116.00
3	A1	154	U	C5-C4-O4	-5.54	122.58	125.90
3	A1	175	C	C5-C4-N4	5.54	124.08	120.20
3	A1	369	G	N1-C2-N3	5.54	127.22	123.90
3	A1	938	A	C1'-O4'-C4'	-5.54	105.47	109.90
25	BB	230	G	C4-C5-N7	-5.54	108.58	110.80
25	BB	347	A	O4'-C1'-N9	-5.54	103.77	108.20
25	BB	476	G	N9-C4-C5	-5.54	103.19	105.40
25	BB	998	C	O4'-C1'-N1	5.54	112.63	108.20
25	BB	1049	C	N1-C2-O2	5.54	122.22	118.90
25	BB	1150	C	C6-N1-C2	-5.54	118.08	120.30
25	BB	1364	G	N3-C4-C5	-5.54	125.83	128.60
25	BB	2084	C	N3-C4-C5	5.54	124.12	121.90
25	BB	2483	C	O5'-P-OP2	5.54	117.35	110.70
25	BB	2682	A	C5-C6-N1	5.54	120.47	117.70
25	BB	2722	G	N1-C2-N2	5.54	121.19	116.20
53	B4	29	PHE	CG-CD2-CE2	-5.54	114.71	120.80
1	AE	5	A	O3'-P-O5'	5.54	114.52	104.00
3	A1	977	A	C5-C6-N6	5.54	128.13	123.70
5	AC	26	PHE	N-CA-C	5.54	125.95	111.00
25	BB	236	C	N3-C4-C5	-5.54	119.69	121.90
25	BB	570	G	C1'-O4'-C4'	-5.54	105.47	109.90
25	BB	777	G	C5-N7-C8	5.54	107.07	104.30
25	BB	1764	C	N1-C2-O2	5.54	122.22	118.90
25	BB	1790	C	C2-N3-C4	-5.54	117.13	119.90
25	BB	2136	G	C5-N7-C8	-5.54	101.53	104.30
25	BB	2195	U	O3'-P-O5'	5.54	114.52	104.00
25	BB	2375	G	N9-C4-C5	5.54	107.61	105.40
3	A1	75	G	C6-N1-C2	-5.54	121.78	125.10
3	A1	830	G	C4'-C3'-C2'	-5.54	97.06	102.60
3	A1	1341	U	C5'-C4'-C3'	-5.54	107.14	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1525	G	O3'-P-O5'	5.54	114.52	104.00
25	BB	43	G	N9-C4-C5	5.54	107.61	105.40
25	BB	104	A	C1'-O4'-C4'	-5.54	105.47	109.90
25	BB	165	A	C4-C5-N7	5.54	113.47	110.70
25	BB	473	G	P-O3'-C3'	5.54	126.34	119.70
25	BB	594	U	C5'-C4'-O4'	5.54	115.74	109.10
25	BB	905	A	O4'-C1'-N9	-5.54	103.77	108.20
25	BB	1093	G	C6-N1-C2	-5.54	121.78	125.10
25	BB	1247	A	C4'-C3'-O3'	-5.54	97.78	109.40
25	BB	1325	U	N1-C2-N3	5.54	118.22	114.90
25	BB	1473	G	N1-C2-N3	5.54	127.22	123.90
25	BB	1674	G	C3'-C2'-C1'	5.54	105.93	101.50
25	BB	2349	G	N7-C8-N9	5.54	115.87	113.10
25	BB	2858	C	N3-C4-N4	-5.54	114.12	118.00
25	BB	2900	A	C5-C6-N6	5.54	128.13	123.70
46	BW	41	ARG	NE-CZ-NH2	-5.54	117.53	120.30
1	AA	33	U	O4'-C1'-C2'	5.53	112.58	107.60
3	A1	173	U	O4'-C1'-C2'	5.53	112.58	107.60
3	A1	461	A	C8-N9-C4	-5.53	103.59	105.80
3	A1	478	A	C3'-C2'-C1'	5.53	105.93	101.50
3	A1	498	A	O4'-C1'-N9	-5.53	103.77	108.20
3	A1	539	A	C4'-C3'-C2'	-5.53	97.07	102.60
3	A1	588	G	C5-C6-O6	5.53	131.92	128.60
3	A1	646	G	C5-N7-C8	-5.53	101.53	104.30
3	A1	926	G	N3-C4-N9	5.53	129.32	126.00
25	BB	381	G	C4'-C3'-C2'	-5.53	97.07	102.60
25	BB	409	G	N3-C4-N9	5.53	129.32	126.00
25	BB	574	A	C5-C6-N1	5.53	120.47	117.70
25	BB	1268	A	N3-C4-N9	5.53	131.83	127.40
25	BB	1569	A	C5-C6-N6	5.53	128.13	123.70
25	BB	1783	A	C5-C6-N6	5.53	128.13	123.70
25	BB	2482	A	O4'-C4'-C3'	5.53	110.53	106.10
25	BB	2517	C	C6-N1-C2	-5.53	118.09	120.30
25	BB	2713	U	N1-C1'-C2'	5.53	121.19	114.00
25	BB	2783	U	C4-C5-C6	5.53	123.02	119.70
25	BB	2818	U	C2-N1-C1'	-5.53	111.06	117.70
30	BG	76	VAL	CG1-CB-CG2	-5.53	102.05	110.90
39	BP	20	LEU	CB-CG-CD2	5.53	120.41	111.00
3	A1	654	G	C6-N1-C2	-5.53	121.78	125.10
3	A1	1465	A	N1-C2-N3	-5.53	126.53	129.30
25	BB	1851	U	C2-N3-C4	-5.53	123.68	127.00
25	BB	1961	C	C5'-C4'-O4'	5.53	115.74	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2326	C	C4-C5-C6	5.53	120.17	117.40
42	BS	11	GLU	CG-CD-OE2	5.53	129.36	118.30
3	A1	683	G	O4'-C1'-C2'	5.53	112.58	107.60
3	A1	794	A	O4'-C1'-N9	5.53	112.62	108.20
3	A1	1079	G	C4-C5-N7	-5.53	108.59	110.80
3	A1	1233	G	C5'-C4'-C3'	-5.53	107.15	116.00
3	A1	1350	A	C5-N7-C8	-5.53	101.13	103.90
25	BB	392	U	C4'-C3'-C2'	5.53	108.13	102.60
25	BB	789	A	N9-C1'-C2'	-5.53	105.92	112.00
25	BB	932	U	P-O3'-C3'	5.53	126.34	119.70
25	BB	1074	G	C4'-C3'-C2'	-5.53	97.07	102.60
25	BB	1328	A	C8-N9-C4	5.53	108.01	105.80
25	BB	1630	A	C6-N1-C2	5.53	121.92	118.60
25	BB	1692	U	C6-N1-C2	-5.53	117.68	121.00
25	BB	1699	G	C2'-C3'-O3'	5.53	122.55	113.70
25	BB	1752	C	C2-N3-C4	-5.53	117.14	119.90
25	BB	1799	G	C5'-C4'-O4'	-5.53	102.46	109.10
25	BB	1895	C	C3'-C2'-C1'	5.53	105.92	101.50
25	BB	1972	G	C6-N1-C2	-5.53	121.78	125.10
25	BB	2049	G	C5-N7-C8	-5.53	101.53	104.30
25	BB	2228	G	C5'-C4'-C3'	-5.53	107.15	116.00
25	BB	2239	G	O4'-C4'-C3'	5.53	110.52	106.10
25	BB	2500	U	O4'-C1'-N1	5.53	112.62	108.20
25	BB	2822	G	N9-C4-C5	5.53	107.61	105.40
3	A1	1066	C	N1-C2-O2	5.53	122.22	118.90
3	A1	1327	C	C2-N3-C4	-5.53	117.14	119.90
11	AJ	26	ARG	NH1-CZ-NH2	-5.53	113.32	119.40
25	BB	383	C	C2'-C3'-O3'	5.53	122.55	113.70
25	BB	1537	G	C4'-C3'-C2'	-5.53	97.07	102.60
25	BB	1828	G	N3-C4-N9	-5.53	122.68	126.00
3	A1	189	A	C8-N9-C4	-5.53	103.59	105.80
3	A1	270	A	C8-N9-C4	5.53	108.01	105.80
3	A1	315	A	N7-C8-N9	5.53	116.56	113.80
3	A1	830	G	C8-N9-C4	5.53	108.61	106.40
3	A1	1170	A	P-O3'-C3'	5.53	126.33	119.70
24	BA	4	C	P-O5'-C5'	-5.53	112.06	120.90
24	BA	118	C	O4'-C1'-N1	5.53	112.62	108.20
25	BB	1300	G	N3-C2-N2	-5.53	116.03	119.90
25	BB	1488	C	C2-N3-C4	5.53	122.66	119.90
25	BB	1632	A	O4'-C4'-C3'	5.53	110.52	106.10
25	BB	2402	U	C5-C4-O4	5.53	129.22	125.90
25	BB	2507	C	N3-C4-N4	-5.53	114.13	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AE	35	A	N9-C4-C5	-5.53	103.59	105.80
3	A1	1492	A	N7-C8-N9	5.53	116.56	113.80
3	A1	1514	G	C5'-C4'-O4'	5.53	115.73	109.10
25	BB	111	A	O4'-C1'-C2'	5.53	112.57	107.60
25	BB	501	A	C3'-C2'-C1'	5.53	105.92	101.50
25	BB	1157	G	C4-C5-N7	-5.53	108.59	110.80
25	BB	1180	U	C5-C4-O4	5.53	129.22	125.90
25	BB	1423	G	N9-C4-C5	5.53	107.61	105.40
25	BB	1458	U	N1-C1'-C2'	5.53	121.18	114.00
25	BB	2116	G	C5'-C4'-C3'	-5.53	107.16	116.00
25	BB	2522	U	N3-C2-O2	-5.53	118.33	122.20
25	BB	2634	A	C6-N1-C2	-5.53	115.28	118.60
25	BB	2642	G	N1-C6-O6	-5.53	116.58	119.90
25	BB	2815	C	O4'-C1'-N1	-5.53	103.78	108.20
48	BY	13	ARG	NE-CZ-NH1	5.53	123.06	120.30
1	AA	46	G	C6-N1-C2	-5.52	121.79	125.10
3	A1	1159	U	O4'-C1'-N1	5.52	112.62	108.20
25	BB	195	A	C3'-C2'-C1'	-5.52	97.08	101.50
25	BB	2074	U	C2-N3-C4	-5.52	123.69	127.00
25	BB	2391	G	N3-C4-N9	5.52	129.31	126.00
1	AA	60	C	C3'-C2'-C1'	-5.52	97.08	101.50
3	A1	323	U	C4-C5-C6	5.52	123.01	119.70
3	A1	345	C	O4'-C1'-N1	5.52	112.62	108.20
3	A1	528	C	C4-C5-C6	-5.52	114.64	117.40
3	A1	735	C	C2-N3-C4	-5.52	117.14	119.90
3	A1	847	G	C5-N7-C8	-5.52	101.54	104.30
3	A1	1365	G	C2-N3-C4	5.52	114.66	111.90
25	BB	265	A	O4'-C1'-N9	5.52	112.62	108.20
25	BB	600	G	O4'-C1'-C2'	-5.52	100.28	105.80
25	BB	728	G	N1-C6-O6	-5.52	116.59	119.90
25	BB	963	U	C1'-O4'-C4'	5.52	114.32	109.90
25	BB	1083	U	N1-C2-N3	5.52	118.21	114.90
25	BB	1468	U	N1-C2-O2	-5.52	118.94	122.80
25	BB	1522	A	C4-C5-N7	5.52	113.46	110.70
25	BB	1685	C	O4'-C1'-N1	5.52	112.62	108.20
25	BB	1708	C	N1-C2-O2	5.52	122.21	118.90
25	BB	1932	A	C1'-O4'-C4'	-5.52	105.48	109.90
25	BB	1944	U	C1'-O4'-C4'	-5.52	105.48	109.90
25	BB	1984	G	C1'-O4'-C4'	-5.52	105.48	109.90
25	BB	2116	G	O4'-C1'-N9	5.52	112.62	108.20
25	BB	2195	U	C2'-C3'-O3'	5.52	122.54	113.70
25	BB	2842	G	C5-C6-N1	5.52	114.26	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	BT	35	GLU	C-N-CA	5.52	135.51	121.70
43	BT	53	VAL	CA-CB-CG2	5.52	119.18	110.90
51	B2	127	TYR	CG-CD1-CE1	-5.52	116.88	121.30
3	A1	328	C	C2-N3-C4	5.52	122.66	119.90
3	A1	663	A	O3'-P-O5'	-5.52	93.51	104.00
24	BA	8	C	N1-C2-N3	5.52	123.06	119.20
25	BB	965	C	C5'-C4'-O4'	5.52	115.72	109.10
25	BB	1733	G	C4-N9-C1'	-5.52	119.32	126.50
25	BB	2178	C	C6-N1-C2	-5.52	118.09	120.30
25	BB	2727	A	C5-C6-N6	5.52	128.12	123.70
38	BO	17	ASP	OD1-CG-OD2	-5.52	112.81	123.30
1	AE	28	C	N3-C4-N4	5.52	121.86	118.00
3	A1	87	C	N3-C4-C5	5.52	124.11	121.90
3	A1	311	C	N3-C2-O2	-5.52	118.04	121.90
3	A1	441	A	N9-C1'-C2'	5.52	121.17	114.00
3	A1	761	G	C3'-C2'-C1'	-5.52	97.08	101.50
3	A1	986	U	N1-C1'-C2'	-5.52	105.93	112.00
3	A1	1081	A	O4'-C1'-N9	5.52	112.62	108.20
3	A1	1429	A	O5'-P-OP1	5.52	117.32	110.70
3	A1	1497	G	C6-C5-N7	5.52	133.71	130.40
25	BB	67	U	C5-C6-N1	-5.52	119.94	122.70
25	BB	325	G	C5-C6-N1	-5.52	108.74	111.50
25	BB	762	U	C5'-C4'-C3'	-5.52	107.17	116.00
25	BB	1185	G	N7-C8-N9	5.52	115.86	113.10
25	BB	1493	C	C4-C5-C6	-5.52	114.64	117.40
25	BB	1582	C	C5-C4-N4	-5.52	116.34	120.20
25	BB	1601	G	N3-C4-N9	-5.52	122.69	126.00
25	BB	1619	G	O4'-C1'-N9	5.52	112.62	108.20
25	BB	2171	A	C6-N1-C2	-5.52	115.29	118.60
52	B3	42	VAL	CA-CB-CG2	5.52	119.18	110.90
53	B4	130	VAL	CA-CB-CG1	5.52	119.18	110.90
3	A1	273	U	C5-C4-O4	-5.52	122.59	125.90
3	A1	380	G	C4-C5-N7	-5.52	108.59	110.80
3	A1	427	U	O4'-C1'-N1	5.52	112.61	108.20
3	A1	1067	A	O5'-C5'-C4'	-5.52	101.22	111.70
3	A1	1332	A	C6-C5-N7	5.52	136.16	132.30
3	A1	1438	G	C8-N9-C1'	5.52	134.17	127.00
25	BB	512	G	N1-C2-N3	5.52	127.21	123.90
25	BB	559	G	C1'-O4'-C4'	5.52	114.31	109.90
25	BB	847	U	N1-C2-N3	-5.52	111.59	114.90
25	BB	1078	U	O4'-C4'-C3'	5.52	110.51	106.10
25	BB	1158	C	O4'-C1'-N1	-5.52	103.79	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1567	G	C4'-C3'-C2'	5.52	108.12	102.60
25	BB	1610	A	O4'-C4'-C3'	-5.52	98.48	104.00
25	BB	1726	C	N3-C2-O2	-5.52	118.04	121.90
25	BB	1759	A	N9-C4-C5	-5.52	103.59	105.80
25	BB	1987	A	C1'-O4'-C4'	-5.52	105.49	109.90
25	BB	2357	G	O4'-C1'-N9	5.52	112.61	108.20
25	BB	2367	G	C5'-C4'-O4'	-5.52	102.48	109.10
25	BB	2448	A	C3'-C2'-C1'	5.52	105.91	101.50
25	BB	185	G	C5'-C4'-C3'	-5.52	107.17	116.00
25	BB	370	G	N1-C6-O6	-5.52	116.59	119.90
25	BB	566	U	P-O5'-C5'	5.52	129.72	120.90
25	BB	1103	A	C5-C6-N6	-5.52	119.29	123.70
25	BB	2006	C	N1-C2-N3	5.52	123.06	119.20
25	BB	2056	G	C8-N9-C4	-5.52	104.19	106.40
25	BB	2402	U	C1'-O4'-C4'	-5.52	105.49	109.90
1	AA	12	U	N1-C2-N3	5.51	118.21	114.90
3	A1	10	A	P-O3'-C3'	5.51	126.32	119.70
3	A1	66	A	C3'-C2'-C1'	5.51	105.91	101.50
3	A1	245	U	C1'-O4'-C4'	-5.51	105.49	109.90
3	A1	451	A	C1'-O4'-C4'	-5.51	105.49	109.90
3	A1	632	U	C4-C5-C6	5.51	123.01	119.70
3	A1	697	U	C5'-C4'-O4'	5.51	115.72	109.10
3	A1	882	C	O4'-C1'-N1	5.51	112.61	108.20
3	A1	956	U	N3-C2-O2	-5.51	118.34	122.20
3	A1	967	C	C4-C5-C6	-5.51	114.64	117.40
3	A1	999	C	C4'-C3'-C2'	-5.51	97.08	102.60
24	BA	116	G	C2'-C3'-O3'	5.51	122.52	113.70
25	BB	609	A	O3'-P-O5'	-5.51	93.52	104.00
25	BB	941	A	C6-N1-C2	-5.51	115.29	118.60
25	BB	1487	U	N3-C2-O2	-5.51	118.34	122.20
25	BB	1647	U	N1-C2-N3	5.51	118.21	114.90
25	BB	1763	G	C6-N1-C2	-5.51	121.79	125.10
25	BB	2525	G	O4'-C1'-N9	-5.51	103.79	108.20
25	BB	2570	G	N7-C8-N9	5.51	115.86	113.10
1	AA	44	A	C5'-C4'-O4'	5.51	115.72	109.10
3	A1	54	C	O4'-C1'-N1	5.51	112.61	108.20
3	A1	849	G	C5-N7-C8	-5.51	101.54	104.30
3	A1	1268	G	C4-C5-C6	-5.51	115.49	118.80
3	A1	1368	A	C4'-C3'-C2'	-5.51	97.09	102.60
25	BB	221	A	C5'-C4'-O4'	5.51	115.72	109.10
25	BB	946	C	O4'-C1'-C2'	-5.51	100.29	105.80
25	BB	1127	A	C1'-O4'-C4'	5.51	114.31	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1251	C	C4'-C3'-C2'	-5.51	97.09	102.60
3	A1	52	C	C4'-C3'-C2'	-5.51	97.09	102.60
3	A1	318	G	C5'-C4'-O4'	5.51	115.72	109.10
3	A1	387	U	N3-C2-O2	-5.51	118.34	122.20
3	A1	474	G	C2-N3-C4	5.51	114.66	111.90
3	A1	789	U	N1-C2-N3	5.51	118.21	114.90
3	A1	906	A	C1'-O4'-C4'	-5.51	105.49	109.90
3	A1	1000	A	C6-C5-N7	5.51	136.16	132.30
6	AD	106	VAL	CG1-CB-CG2	-5.51	102.08	110.90
24	BA	75	G	C3'-C2'-C1'	5.51	105.91	101.50
25	BB	764	A	N1-C6-N6	-5.51	115.29	118.60
25	BB	946	C	C1'-O4'-C4'	5.51	114.31	109.90
25	BB	1079	C	C4-C5-C6	-5.51	114.64	117.40
25	BB	2038	G	N1-C2-N2	-5.51	111.24	116.20
25	BB	2780	G	C5-C6-N1	5.51	114.26	111.50
1	AA	70	C	C3'-C2'-C1'	-5.51	97.09	101.50
3	A1	186	C	C5-C6-N1	-5.51	118.25	121.00
3	A1	406	G	C8-N9-C1'	5.51	134.16	127.00
3	A1	490	C	C4'-C3'-C2'	-5.51	97.09	102.60
3	A1	593	U	C1'-O4'-C4'	-5.51	105.49	109.90
3	A1	1086	U	C5'-C4'-C3'	-5.51	107.18	116.00
3	A1	1310	G	N9-C1'-C2'	-5.51	105.94	112.00
6	AD	109	ARG	CD-NE-CZ	5.51	131.31	123.60
25	BB	188	G	P-O5'-C5'	5.51	129.72	120.90
25	BB	791	C	C5'-C4'-C3'	-5.51	107.19	116.00
25	BB	864	G	C6-C5-N7	5.51	133.71	130.40
25	BB	921	C	C5-C4-N4	-5.51	116.34	120.20
25	BB	934	U	C4'-C3'-C2'	-5.51	97.09	102.60
25	BB	1256	G	C2-N3-C4	-5.51	109.15	111.90
25	BB	1388	G	N3-C4-N9	5.51	129.31	126.00
25	BB	2266	A	C6-C5-N7	5.51	136.16	132.30
25	BB	2538	C	O4'-C1'-C2'	-5.51	100.29	105.80
54	B5	61	TYR	CB-CG-CD2	-5.51	117.69	121.00
1	AP	22	G	N1-C6-O6	-5.51	116.59	119.90
3	A1	52	C	N1-C2-N3	5.51	123.06	119.20
3	A1	146	G	N3-C4-N9	-5.51	122.69	126.00
3	A1	828	U	C5-C6-N1	-5.51	119.95	122.70
3	A1	891	U	C4-C5-C6	5.51	123.00	119.70
3	A1	1282	C	C3'-C2'-C1'	5.51	105.91	101.50
3	A1	1323	G	C4-C5-N7	5.51	113.00	110.80
21	AV	53	ASP	N-CA-C	5.51	125.87	111.00
25	BB	316	C	C5-C4-N4	-5.51	116.34	120.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1588	G	C4-C5-C6	-5.51	115.50	118.80
25	BB	1966	A	C5-C6-N6	5.51	128.11	123.70
25	BB	2252	G	C2-N3-C4	-5.51	109.15	111.90
25	BB	2405	G	N1-C6-O6	-5.51	116.59	119.90
1	AA	67	A	O3'-P-O5'	5.51	114.46	104.00
3	A1	12	U	O4'-C1'-N1	-5.51	103.80	108.20
3	A1	24	U	N3-C4-O4	5.51	123.25	119.40
3	A1	676	A	C4'-C3'-C2'	-5.51	97.09	102.60
3	A1	852	G	N1-C6-O6	-5.51	116.60	119.90
3	A1	1094	G	N1-C6-O6	-5.51	116.60	119.90
3	A1	1221	G	C5'-C4'-C3'	-5.51	107.19	116.00
13	AL	30	LEU	CB-CG-CD1	-5.51	101.64	111.00
13	AL	38	THR	CA-CB-CG2	-5.51	104.69	112.40
25	BB	359	G	C1'-O4'-C4'	-5.51	105.50	109.90
25	BB	573	U	C3'-C2'-C1'	-5.51	97.09	101.50
25	BB	1374	G	N3-C2-N2	-5.51	116.05	119.90
25	BB	1510	G	N7-C8-N9	5.51	115.85	113.10
25	BB	1715	G	C1'-O4'-C4'	-5.51	105.50	109.90
25	BB	1818	U	P-O3'-C3'	5.51	126.31	119.70
25	BB	1835	G	C3'-C2'-C1'	-5.51	97.09	101.50
25	BB	2140	G	C4-C5-C6	-5.51	115.50	118.80
25	BB	2356	U	O4'-C1'-N1	5.51	112.61	108.20
25	BB	2554	U	P-O5'-C5'	5.51	129.71	120.90
25	BB	2819	G	N3-C4-C5	-5.51	125.85	128.60
54	B5	41	PHE	CD1-CG-CD2	5.51	125.46	118.30
1	AP	5	A	C5-C6-N6	5.50	128.10	123.70
1	AP	13	C	O4'-C4'-C3'	-5.50	98.50	104.00
3	A1	493	A	P-O5'-C5'	5.50	129.71	120.90
3	A1	724	G	C8-N9-C4	-5.50	104.20	106.40
3	A1	731	G	P-O3'-C3'	5.50	126.31	119.70
3	A1	994	A	C5-C6-N6	5.50	128.10	123.70
3	A1	1033	G	N3-C2-N2	-5.50	116.05	119.90
3	A1	1242	G	C1'-O4'-C4'	-5.50	105.50	109.90
3	A1	1487	G	N3-C4-C5	-5.50	125.85	128.60
24	BA	64	G	O4'-C4'-C3'	5.50	110.50	106.10
24	BA	116	G	C5-N7-C8	5.50	107.05	104.30
25	BB	1060	U	O4'-C1'-N1	5.50	112.60	108.20
25	BB	1634	A	C6-C5-N7	5.50	136.15	132.30
25	BB	1892	C	P-O3'-C3'	5.50	126.31	119.70
25	BB	2263	C	N1-C2-O2	-5.50	115.60	118.90
25	BB	2643	G	N3-C4-C5	-5.50	125.85	128.60
25	BB	2899	A	N3-C4-N9	-5.50	123.00	127.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AP	51	G	C5-C6-O6	5.50	131.90	128.60
3	A1	438	U	C3'-C2'-C1'	5.50	105.90	101.50
3	A1	477	C	N1-C2-O2	5.50	122.20	118.90
3	A1	1130	A	N9-C4-C5	5.50	108.00	105.80
3	A1	1143	G	C5-C6-N1	5.50	114.25	111.50
3	A1	1181	G	O4'-C4'-C3'	5.50	110.50	106.10
3	A1	1461	G	C3'-C2'-C1'	-5.50	97.10	101.50
3	A1	1510	C	N1-C2-N3	5.50	123.05	119.20
17	AR	69	ARG	NH1-CZ-NH2	-5.50	113.35	119.40
24	BA	101	A	C5'-C4'-O4'	5.50	115.70	109.10
25	BB	321	U	C6-N1-C2	5.50	124.30	121.00
25	BB	802	A	C5'-C4'-O4'	5.50	115.70	109.10
25	BB	1060	U	C5-C6-N1	5.50	125.45	122.70
25	BB	1107	G	N3-C4-C5	-5.50	125.85	128.60
25	BB	1386	C	C5-C4-N4	5.50	124.05	120.20
25	BB	2124	G	N9-C4-C5	5.50	107.60	105.40
25	BB	2184	A	N1-C2-N3	-5.50	126.55	129.30
25	BB	2545	G	C8-N9-C4	-5.50	104.20	106.40
25	BB	2691	C	N1-C2-N3	-5.50	115.35	119.20
25	BB	2888	C	C4'-C3'-C2'	-5.50	97.10	102.60
37	BN	102	TYR	CB-CG-CD2	-5.50	117.70	121.00
53	B4	123	ARG	NE-CZ-NH2	-5.50	117.55	120.30
1	AP	12	U	O3'-P-O5'	-5.50	93.55	104.00
1	AP	22	G	C4'-C3'-C2'	-5.50	97.10	102.60
3	A1	162	A	N1-C2-N3	-5.50	126.55	129.30
3	A1	255	G	C5-N7-C8	-5.50	101.55	104.30
3	A1	482	A	C5-N7-C8	-5.50	101.15	103.90
3	A1	695	A	C6-C5-N7	5.50	136.15	132.30
3	A1	708	C	C3'-C2'-C1'	5.50	105.90	101.50
3	A1	746	A	C4-C5-C6	-5.50	114.25	117.00
3	A1	905	U	C4-C5-C6	5.50	123.00	119.70
3	A1	977	A	C4-C5-C6	-5.50	114.25	117.00
3	A1	1101	A	C5-C6-N1	5.50	120.45	117.70
3	A1	1219	A	C5-N7-C8	-5.50	101.15	103.90
3	A1	1428	A	C6-N1-C2	-5.50	115.30	118.60
14	AN	60	GLN	CB-CG-CD	5.50	125.91	111.60
24	BA	114	C	N1-C2-N3	5.50	123.05	119.20
25	BB	880	G	C5-C6-N1	5.50	114.25	111.50
25	BB	983	A	C4-C5-N7	5.50	113.45	110.70
25	BB	1003	G	C5-C6-O6	-5.50	125.30	128.60
25	BB	1578	U	N3-C4-O4	5.50	123.25	119.40
25	BB	1592	C	C3'-C2'-C1'	5.50	105.90	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2516	A	C2-N3-C4	5.50	113.35	110.60
25	BB	2766	A	C6-C5-N7	5.50	136.15	132.30
25	BB	2867	G	C2-N3-C4	5.50	114.65	111.90
49	BZ	159	THR	CA-CB-OG1	-5.50	97.45	109.00
50	B1	143	LEU	CB-CA-C	5.50	120.65	110.20
51	B2	34	THR	N-CA-CB	5.50	120.75	110.30
3	A1	157	U	C5'-C4'-O4'	5.50	115.70	109.10
3	A1	1335	U	N3-C4-O4	-5.50	115.55	119.40
10	AI	39	PHE	CB-CG-CD1	-5.50	116.95	120.80
25	BB	1821	A	C6-C5-N7	5.50	136.15	132.30
25	BB	2083	G	O5'-C5'-C4'	-5.50	101.25	111.70
25	BB	2807	U	N3-C2-O2	-5.50	118.35	122.20
25	BB	2866	U	C4-C5-C6	5.50	123.00	119.70
43	BT	17	SER	CA-CB-OG	5.50	126.05	111.20
1	AP	11	C	O4'-C4'-C3'	5.50	110.50	106.10
1	AP	15	G	C5-N7-C8	-5.50	101.55	104.30
3	A1	498	A	C2-N3-C4	5.50	113.35	110.60
3	A1	847	G	C3'-C2'-C1'	-5.50	97.10	101.50
3	A1	1040	U	N1-C2-N3	5.50	118.20	114.90
5	AC	70	ALA	CB-CA-C	5.50	118.35	110.10
25	BB	300	A	C6-C5-N7	5.50	136.15	132.30
25	BB	687	C	N1-C1'-C2'	5.50	121.15	114.00
25	BB	777	G	N3-C4-C5	-5.50	125.85	128.60
25	BB	1205	A	C5'-C4'-O4'	-5.50	102.50	109.10
25	BB	1347	A	C4-C5-N7	5.50	113.45	110.70
25	BB	1552	A	O4'-C1'-N9	5.50	112.60	108.20
25	BB	1605	C	N3-C2-O2	-5.50	118.05	121.90
25	BB	2013	A	C4-C5-N7	-5.50	107.95	110.70
25	BB	2195	U	C5'-C4'-O4'	5.50	115.70	109.10
25	BB	2378	A	O4'-C4'-C3'	5.50	110.50	106.10
25	BB	2453	A	C5-C6-N6	-5.50	119.30	123.70
25	BB	2714	G	C3'-C2'-C1'	5.50	105.90	101.50
25	BB	2858	C	C2-N1-C1'	-5.50	112.75	118.80
25	BB	2866	U	C5-C4-O4	-5.50	122.60	125.90
29	BF	26	VAL	C-N-CA	5.50	135.45	121.70
44	BU	5	ARG	C-N-CA	5.50	135.44	121.70
3	A1	94	G	N3-C2-N2	-5.50	116.05	119.90
3	A1	112	G	C5-C6-O6	-5.50	125.30	128.60
3	A1	415	A	N7-C8-N9	5.50	116.55	113.80
3	A1	747	A	C5'-C4'-C3'	-5.50	107.21	116.00
3	A1	1431	A	P-O3'-C3'	5.50	126.30	119.70
25	BB	808	G	N1-C2-N3	5.50	127.20	123.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1261	C	C4'-C3'-C2'	-5.50	97.10	102.60
25	BB	1416	G	P-O3'-C3'	5.50	126.30	119.70
25	BB	2000	C	C5-C6-N1	-5.50	118.25	121.00
25	BB	2037	A	O4'-C1'-N9	-5.50	103.80	108.20
25	BB	2053	G	N9-C4-C5	5.50	107.60	105.40
25	BB	2172	U	P-O3'-C3'	5.50	126.30	119.70
25	BB	2450	A	C2'-C3'-O3'	5.50	122.50	113.70
25	BB	2738	A	C3'-C2'-C1'	5.50	105.90	101.50
25	BB	2752	C	C5'-C4'-O4'	-5.50	102.50	109.10
3	A1	600	A	C4-C5-C6	-5.50	114.25	117.00
24	BA	7	G	C4'-C3'-C2'	-5.50	97.11	102.60
25	BB	592	A	N1-C2-N3	-5.50	126.55	129.30
25	BB	1367	A	N1-C2-N3	-5.50	126.55	129.30
25	BB	1374	G	C1'-O4'-C4'	-5.50	105.50	109.90
49	BZ	131	ARG	CD-NE-CZ	5.50	131.29	123.60
54	B5	23	VAL	CA-CB-CG1	5.50	119.14	110.90
54	B5	33	ASN	N-CA-CB	-5.50	100.71	110.60
1	AA	31	A	O4'-C1'-N9	5.49	112.59	108.20
3	A1	250	A	C6-N1-C2	-5.49	115.30	118.60
3	A1	693	G	P-O3'-C3'	5.49	126.29	119.70
3	A1	970	C	N3-C2-O2	-5.49	118.06	121.90
4	AB	29	PHE	CB-CG-CD2	-5.49	116.95	120.80
25	BB	579	G	C5-C6-O6	5.49	131.90	128.60
25	BB	724	U	N1-C2-N3	5.49	118.20	114.90
25	BB	774	G	O4'-C1'-N9	5.49	112.59	108.20
25	BB	883	G	C5-C6-O6	5.49	131.90	128.60
25	BB	931	U	N3-C4-O4	5.49	123.25	119.40
25	BB	1397	U	C5'-C4'-O4'	5.49	115.69	109.10
25	BB	2006	C	C4'-C3'-C2'	-5.49	97.11	102.60
25	BB	2854	G	C8-N9-C4	-5.49	104.20	106.40
3	A1	1126	U	N1-C2-O2	5.49	126.64	122.80
3	A1	1403	C	C6-N1-C1'	-5.49	114.21	120.80
3	A1	1506	U	C5'-C4'-C3'	-5.49	107.21	116.00
25	BB	10	A	C5-N7-C8	-5.49	101.15	103.90
25	BB	1026	G	C5'-C4'-C3'	-5.49	107.21	116.00
25	BB	1423	G	N3-C2-N2	-5.49	116.06	119.90
37	BN	86	ARG	CD-NE-CZ	5.49	131.29	123.60
1	AP	11	C	O4'-C1'-N1	5.49	112.59	108.20
3	A1	29	U	C4-C5-C6	5.49	123.00	119.70
3	A1	308	C	N3-C4-N4	-5.49	114.16	118.00
3	A1	359	G	C6-N1-C2	-5.49	121.81	125.10
3	A1	562	U	O4'-C1'-C2'	-5.49	100.31	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	705	G	N1-C6-O6	-5.49	116.61	119.90
3	A1	1103	C	O3'-P-O5'	5.49	114.43	104.00
3	A1	1479	C	N3-C4-C5	5.49	124.10	121.90
14	AN	85	LEU	O-C-N	-5.49	113.92	122.70
25	BB	56	A	N1-C2-N3	-5.49	126.56	129.30
25	BB	511	U	N1-C1'-C2'	5.49	121.14	114.00
25	BB	672	C	C6-N1-C1'	-5.49	114.21	120.80
25	BB	826	U	C1'-O4'-C4'	5.49	114.29	109.90
25	BB	898	C	N3-C2-O2	-5.49	118.06	121.90
25	BB	1786	A	N3-C4-C5	5.49	130.64	126.80
25	BB	1883	U	C1'-O4'-C4'	-5.49	105.51	109.90
25	BB	1971	U	C2-N3-C4	-5.49	123.70	127.00
1	AP	26	G	N3-C4-C5	-5.49	125.86	128.60
2	AM	5	U	C5-C4-O4	-5.49	122.61	125.90
3	A1	37	U	N1-C1'-C2'	5.49	121.13	114.00
3	A1	159	G	C5'-C4'-O4'	5.49	115.69	109.10
3	A1	258	G	C6-N1-C2	-5.49	121.81	125.10
3	A1	309	A	C6-N1-C2	-5.49	115.31	118.60
3	A1	392	C	C4'-C3'-C2'	-5.49	97.11	102.60
3	A1	736	C	N3-C2-O2	-5.49	118.06	121.90
3	A1	788	U	C4'-C3'-C2'	-5.49	97.11	102.60
3	A1	922	G	C8-N9-C4	-5.49	104.20	106.40
3	A1	1364	U	N3-C4-C5	-5.49	111.31	114.60
24	BA	67	G	C4-C5-C6	-5.49	115.51	118.80
25	BB	841	G	C8-N9-C4	5.49	108.59	106.40
25	BB	878	A	C5-C6-N1	5.49	120.44	117.70
25	BB	936	A	O4'-C1'-N9	5.49	112.59	108.20
25	BB	1083	U	C5-C6-N1	-5.49	119.96	122.70
25	BB	1184	U	N3-C2-O2	-5.49	118.36	122.20
25	BB	1211	C	N1-C1'-C2'	-5.49	105.96	112.00
25	BB	1259	G	N7-C8-N9	5.49	115.84	113.10
25	BB	1597	A	C5-C6-N1	5.49	120.44	117.70
25	BB	2764	A	C5-C6-N1	5.49	120.44	117.70
25	BB	2811	G	N3-C2-N2	-5.49	116.06	119.90
51	B2	50	ASP	CB-CG-OD2	-5.49	113.36	118.30
53	B4	28	ASN	CB-CA-C	5.49	121.38	110.40
1	AE	11	C	N1-C2-O2	5.49	122.19	118.90
3	A1	418	C	C2-N1-C1'	5.49	124.84	118.80
3	A1	431	A	C6-N1-C2	-5.49	115.31	118.60
3	A1	541	G	C5-C6-N1	5.49	114.24	111.50
25	BB	451	U	N3-C4-C5	-5.49	111.31	114.60
25	BB	572	A	C2-N3-C4	5.49	113.34	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	966	G	C5-C6-N1	5.49	114.24	111.50
25	BB	2399	G	C5-N7-C8	-5.49	101.56	104.30
25	BB	2545	G	C1'-O4'-C4'	-5.49	105.51	109.90
25	BB	2641	G	N1-C2-N2	5.49	121.14	116.20
27	BD	18	ARG	NE-CZ-NH2	-5.49	117.56	120.30
55	B6	1	MET	O-C-N	5.49	131.48	122.70
3	A1	318	G	N7-C8-N9	5.49	115.84	113.10
3	A1	638	U	O4'-C1'-N1	5.49	112.59	108.20
3	A1	734	G	C5-C6-N1	5.49	114.24	111.50
3	A1	1347	G	C5'-C4'-O4'	5.49	115.68	109.10
3	A1	1526	G	N1-C6-O6	-5.49	116.61	119.90
17	AR	37	PRO	CA-C-N	5.49	127.17	116.20
25	BB	48	G	C4-C5-N7	-5.49	108.61	110.80
25	BB	88	G	N1-C6-O6	-5.49	116.61	119.90
25	BB	107	G	N7-C8-N9	5.49	115.84	113.10
25	BB	336	C	P-O5'-C5'	5.49	129.68	120.90
25	BB	565	C	N3-C4-C5	5.49	124.09	121.90
25	BB	795	C	O4'-C1'-N1	5.49	112.59	108.20
25	BB	883	G	C4'-C3'-C2'	-5.49	97.11	102.60
25	BB	1002	G	C4-C5-C6	-5.49	115.51	118.80
25	BB	1227	G	P-O3'-C3'	-5.49	113.12	119.70
25	BB	1264	A	C5'-C4'-O4'	-5.49	102.52	109.10
25	BB	2040	G	N3-C2-N2	-5.49	116.06	119.90
25	BB	2123	G	C5-C6-N1	5.49	114.24	111.50
25	BB	2246	G	C3'-C2'-C1'	-5.49	97.11	101.50
25	BB	2760	C	C1'-O4'-C4'	-5.49	105.51	109.90
25	BB	2869	G	C3'-C2'-C1'	5.49	105.89	101.50
33	BJ	12	ARG	NE-CZ-NH2	-5.49	117.56	120.30
2	AM	1	U	N3-C2-O2	-5.48	118.36	122.20
3	A1	588	G	O3'-P-O5'	-5.48	93.58	104.00
25	BB	119	A	O4'-C1'-N9	5.48	112.59	108.20
25	BB	989	G	C5'-C4'-O4'	5.48	115.68	109.10
25	BB	1619	G	N3-C4-C5	-5.48	125.86	128.60
25	BB	1915	U	O5'-C5'-C4'	-5.48	101.28	111.70
25	BB	2539	C	C5'-C4'-O4'	-5.48	102.52	109.10
25	BB	2799	A	C4'-C3'-C2'	-5.48	97.12	102.60
49	BZ	215	VAL	CA-CB-CG2	5.48	119.13	110.90
1	AA	47	U	N1-C2-N3	5.48	118.19	114.90
2	AM	19	U	C3'-C2'-C1'	5.48	105.89	101.50
3	A1	205	A	C5-N7-C8	-5.48	101.16	103.90
3	A1	511	C	N1-C1'-C2'	5.48	121.13	114.00
3	A1	1144	G	N3-C4-C5	-5.48	125.86	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1392	G	O5'-C5'-C4'	-5.48	101.28	111.70
3	A1	1521	C	P-O3'-C3'	5.48	126.28	119.70
19	AT	49	TYR	CB-CG-CD1	-5.48	117.71	121.00
24	BA	2	G	N9-C4-C5	5.48	107.59	105.40
24	BA	84	G	C6-C5-N7	5.48	133.69	130.40
25	BB	292	U	N1-C2-O2	5.48	126.64	122.80
25	BB	307	G	C3'-C2'-C1'	-5.48	97.11	101.50
25	BB	489	G	N3-C4-N9	-5.48	122.71	126.00
25	BB	600	G	C3'-C2'-C1'	5.48	105.89	101.50
25	BB	676	A	C8-N9-C4	5.48	107.99	105.80
25	BB	685	A	C8-N9-C4	-5.48	103.61	105.80
25	BB	714	U	C6-N1-C2	-5.48	117.71	121.00
25	BB	935	C	C5'-C4'-O4'	5.48	115.68	109.10
25	BB	1097	U	N3-C2-O2	-5.48	118.36	122.20
25	BB	1186	G	N3-C4-C5	-5.48	125.86	128.60
25	BB	1696	G	C4'-C3'-C2'	-5.48	97.12	102.60
25	BB	1907	G	C4-C5-C6	-5.48	115.51	118.80
25	BB	2136	G	N3-C4-C5	-5.48	125.86	128.60
25	BB	2446	G	C6-N1-C2	-5.48	121.81	125.10
25	BB	2660	A	C4'-C3'-C2'	5.48	108.08	102.60
25	BB	2708	G	N1-C2-N2	5.48	121.14	116.20
25	BB	2891	U	C5'-C4'-C3'	-5.48	107.23	116.00
3	A1	394	G	C4'-C3'-C2'	-5.48	97.12	102.60
3	A1	514	C	N1-C2-O2	-5.48	115.61	118.90
3	A1	671	G	N3-C4-C5	-5.48	125.86	128.60
3	A1	1037	C	C5-C4-N4	-5.48	116.36	120.20
24	BA	14	U	C6-N1-C1'	5.48	128.87	121.20
25	BB	13	A	P-O3'-C3'	5.48	126.28	119.70
25	BB	96	C	N1-C2-N3	5.48	123.04	119.20
25	BB	424	G	C4'-C3'-C2'	-5.48	97.12	102.60
25	BB	427	U	C5'-C4'-C3'	-5.48	107.23	116.00
25	BB	467	G	N1-C6-O6	-5.48	116.61	119.90
25	BB	795	C	C2-N3-C4	-5.48	117.16	119.90
25	BB	1173	U	C6-N1-C2	-5.48	117.71	121.00
25	BB	1891	G	C5'-C4'-C3'	5.48	124.77	116.00
25	BB	2101	A	C5'-C4'-O4'	5.48	115.68	109.10
25	BB	2280	G	O4'-C1'-N9	5.48	112.58	108.20
25	BB	2366	A	C4-C5-N7	-5.48	107.96	110.70
25	BB	2629	U	C4-C5-C6	5.48	122.99	119.70
25	BB	2707	U	P-O3'-C3'	5.48	126.28	119.70
25	BB	2755	C	C6-N1-C2	5.48	122.49	120.30
37	BN	71	ASP	OD1-CG-OD2	-5.48	112.89	123.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	174	A	C6-C5-N7	5.48	136.13	132.30
3	A1	985	C	C6-N1-C2	-5.48	118.11	120.30
25	BB	10	A	N1-C2-N3	-5.48	126.56	129.30
25	BB	142	A	C6-C5-N7	5.48	136.14	132.30
25	BB	307	G	C4-C5-C6	-5.48	115.51	118.80
25	BB	691	C	C4-C5-C6	5.48	120.14	117.40
25	BB	2714	G	C2-N3-C4	5.48	114.64	111.90
2	AM	12	U	C4'-C3'-C2'	-5.48	97.12	102.60
3	A1	217	C	N1-C2-O2	5.48	122.19	118.90
3	A1	225	C	C1'-O4'-C4'	-5.48	105.52	109.90
3	A1	514	C	C5-C6-N1	5.48	123.74	121.00
3	A1	624	C	C6-N1-C2	5.48	122.49	120.30
3	A1	665	A	O5'-P-OP1	-5.48	100.77	105.70
3	A1	1516	G	O4'-C1'-C2'	-5.48	100.32	105.80
24	BA	50	A	C5-N7-C8	-5.48	101.16	103.90
25	BB	49	A	C5'-C4'-C3'	-5.48	107.24	116.00
25	BB	369	U	N3-C4-C5	5.48	117.89	114.60
25	BB	1230	A	C2-N3-C4	5.48	113.34	110.60
25	BB	1321	A	C8-N9-C4	-5.48	103.61	105.80
25	BB	1614	A	C2-N3-C4	5.48	113.34	110.60
25	BB	1891	G	O4'-C1'-N9	5.48	112.58	108.20
25	BB	2205	A	C5-N7-C8	5.48	106.64	103.90
25	BB	2766	A	C5-C6-N6	5.48	128.08	123.70
25	BB	2799	A	N7-C8-N9	-5.48	111.06	113.80
1	AA	15	G	C4'-C3'-C2'	-5.48	97.12	102.60
3	A1	1133	G	C4'-C3'-C2'	-5.48	97.12	102.60
25	BB	578	G	C5-C6-N1	5.48	114.24	111.50
25	BB	1043	C	N3-C2-O2	-5.48	118.07	121.90
25	BB	1152	C	N3-C4-C5	-5.48	119.71	121.90
25	BB	1199	U	C5-C4-O4	-5.48	122.61	125.90
25	BB	1491	G	C5'-C4'-O4'	5.48	115.67	109.10
25	BB	2618	G	N1-C6-O6	-5.48	116.61	119.90
1	AE	42	G	N1-C2-N3	5.47	127.18	123.90
3	A1	176	C	C6-N1-C2	5.47	122.49	120.30
3	A1	301	G	N9-C1'-C2'	-5.47	105.98	112.00
3	A1	810	C	C5-C4-N4	5.47	124.03	120.20
3	A1	821	G	C5-C6-N1	5.47	114.24	111.50
3	A1	909	A	N1-C2-N3	-5.47	126.56	129.30
3	A1	1004	A	C5'-C4'-O4'	5.47	115.67	109.10
25	BB	21	A	C3'-C2'-C1'	5.47	105.88	101.50
25	BB	442	G	N1-C2-N3	5.47	127.19	123.90
25	BB	1201	U	C3'-C2'-C1'	5.47	105.88	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2289	G	O5'-P-OP2	-5.47	100.77	105.70
25	BB	2298	A	C1'-O4'-C4'	-5.47	105.52	109.90
49	BZ	134	PHE	CG-CD1-CE1	-5.47	114.78	120.80
3	A1	25	C	P-O3'-C3'	5.47	126.27	119.70
3	A1	80	A	O4'-C1'-N9	-5.47	103.82	108.20
3	A1	326	G	C5-C6-N1	5.47	114.24	111.50
3	A1	402	G	N3-C4-C5	-5.47	125.86	128.60
3	A1	775	G	C8-N9-C4	-5.47	104.21	106.40
11	AJ	33	TYR	CG-CD2-CE2	-5.47	116.92	121.30
25	BB	57	C	O4'-C1'-C2'	-5.47	100.33	105.80
25	BB	191	A	O4'-C1'-C2'	5.47	112.53	107.60
25	BB	658	U	N3-C4-O4	-5.47	115.57	119.40
25	BB	1420	A	C1'-O4'-C4'	-5.47	105.52	109.90
25	BB	1420	A	C4-C5-C6	-5.47	114.26	117.00
25	BB	1587	G	C5'-C4'-C3'	-5.47	107.24	116.00
25	BB	2239	G	O4'-C1'-C2'	-5.47	100.33	105.80
25	BB	2260	C	N1-C1'-C2'	5.47	121.11	114.00
25	BB	2887	A	O4'-C1'-C2'	5.47	112.52	107.60
39	BP	52	CYS	CA-CB-SG	5.47	123.85	114.00
51	B2	176	PHE	C-N-CA	5.47	135.38	121.70
3	A1	218	U	N3-C4-O4	5.47	123.23	119.40
25	BB	1601	G	C6-C5-N7	5.47	133.68	130.40
25	BB	1846	G	C8-N9-C4	-5.47	104.21	106.40
25	BB	2515	C	C5-C4-N4	-5.47	116.37	120.20
25	BB	2645	G	N3-C4-N9	5.47	129.28	126.00
25	BB	2674	G	N7-C8-N9	5.47	115.84	113.10
41	BR	1	ALA	N-CA-CB	-5.47	102.44	110.10
1	AA	38	A	C2-N3-C4	5.47	113.33	110.60
3	A1	184	G	N1-C2-N3	5.47	127.18	123.90
3	A1	585	G	C5-C6-O6	-5.47	125.32	128.60
3	A1	690	G	C8-N9-C4	5.47	108.59	106.40
3	A1	1343	G	C5-C6-N1	5.47	114.23	111.50
3	A1	1489	G	O4'-C1'-N9	-5.47	103.83	108.20
25	BB	6	A	N9-C1'-C2'	-5.47	105.98	112.00
25	BB	704	G	C5-C6-O6	5.47	131.88	128.60
25	BB	796	C	N1-C2-N3	5.47	123.03	119.20
25	BB	1126	A	C5-N7-C8	-5.47	101.17	103.90
25	BB	1680	U	C5-C6-N1	-5.47	119.97	122.70
25	BB	1761	C	N3-C4-C5	5.47	124.09	121.90
25	BB	1821	A	C5-C6-N6	5.47	128.08	123.70
25	BB	1852	U	O4'-C1'-N1	-5.47	103.83	108.20
25	BB	2742	G	N1-C6-O6	-5.47	116.62	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	BW	60	CYS	CA-CB-SG	-5.47	104.15	114.00
1	AP	65	G	N1-C2-N3	5.47	127.18	123.90
3	A1	325	A	C2-N3-C4	5.47	113.33	110.60
3	A1	1388	C	N1-C2-N3	5.47	123.03	119.20
3	A1	1512	U	C1'-O4'-C4'	-5.47	105.53	109.90
20	AU	27	ASN	N-CA-CB	-5.47	100.76	110.60
25	BB	1438	U	C4'-C3'-O3'	-5.47	97.92	109.40
25	BB	1653	G	C5-N7-C8	5.47	107.03	104.30
1	AP	6	U	O4'-C1'-N1	5.47	112.57	108.20
1	AE	30	G	O4'-C1'-N9	5.47	112.57	108.20
3	A1	551	U	C5'-C4'-O4'	5.47	115.66	109.10
3	A1	613	C	C1'-O4'-C4'	5.47	114.27	109.90
3	A1	991	U	O3'-P-O5'	-5.47	93.61	104.00
3	A1	1275	A	N7-C8-N9	5.47	116.53	113.80
3	A1	1280	A	C3'-C2'-C1'	5.47	105.87	101.50
3	A1	1450	U	P-O5'-C5'	5.47	129.65	120.90
24	BA	14	U	C4'-C3'-C2'	-5.47	97.13	102.60
24	BA	98	G	P-O3'-C3'	5.47	126.26	119.70
25	BB	87	U	C4'-C3'-C2'	-5.47	97.13	102.60
25	BB	251	A	N3-C4-C5	5.47	130.63	126.80
25	BB	293	U	C5-C4-O4	-5.47	122.62	125.90
25	BB	1124	G	N1-C6-O6	-5.47	116.62	119.90
25	BB	1623	G	N1-C6-O6	-5.47	116.62	119.90
25	BB	1671	U	N3-C4-O4	5.47	123.23	119.40
25	BB	1676	A	C5'-C4'-O4'	5.47	115.66	109.10
25	BB	1691	C	C4'-C3'-C2'	-5.47	97.13	102.60
25	BB	1981	A	N3-C4-C5	-5.47	122.97	126.80
25	BB	1987	A	C5-C6-N6	5.47	128.07	123.70
25	BB	2317	A	C5-C6-N1	5.47	120.43	117.70
25	BB	2372	U	C6-N1-C2	-5.47	117.72	121.00
25	BB	2430	A	C3'-C2'-C1'	5.47	105.87	101.50
25	BB	2587	A	C2-N3-C4	-5.47	107.87	110.60
25	BB	2590	A	C6-C5-N7	5.47	136.13	132.30
25	BB	2807	U	C5-C4-O4	5.47	129.18	125.90
25	BB	2808	G	N9-C4-C5	5.47	107.59	105.40
41	BR	17	PRO	N-CD-CG	5.47	111.40	103.20
45	BV	39	ARG	NE-CZ-NH2	5.47	123.03	120.30
3	A1	125	U	O4'-C1'-C2'	5.46	112.52	107.60
3	A1	275	G	C5'-C4'-O4'	5.46	115.66	109.10
3	A1	918	A	N7-C8-N9	-5.46	111.07	113.80
3	A1	1230	C	C6-N1-C2	5.46	122.49	120.30
4	AB	198	VAL	CA-CB-CG1	-5.46	102.70	110.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
7	AF	10	ASP	CB-CG-OD1	5.46	123.22	118.30
25	BB	262	A	N7-C8-N9	-5.46	111.07	113.80
25	BB	335	C	N3-C4-C5	5.46	124.09	121.90
25	BB	1087	G	C4-C5-C6	-5.46	115.52	118.80
25	BB	1306	C	N1-C2-N3	5.46	123.03	119.20
25	BB	1875	G	O4'-C1'-C2'	-5.46	100.34	105.80
25	BB	1910	G	C5-C6-O6	5.46	131.88	128.60
25	BB	2045	C	N1-C2-O2	5.46	122.18	118.90
25	BB	2126	A	C8-N9-C4	5.46	107.99	105.80
25	BB	2235	G	N3-C2-N2	-5.46	116.08	119.90
25	BB	2250	G	C2-N3-C4	5.46	114.63	111.90
25	BB	2418	A	C6-N1-C2	-5.46	115.32	118.60
49	BZ	150	ARG	NE-CZ-NH2	-5.46	117.57	120.30
3	A1	36	C	P-O5'-C5'	5.46	129.64	120.90
3	A1	578	C	C4'-C3'-C2'	-5.46	97.14	102.60
3	A1	845	A	C4'-C3'-C2'	-5.46	97.14	102.60
3	A1	885	G	C5-N7-C8	5.46	107.03	104.30
24	BA	4	C	C5-C6-N1	-5.46	118.27	121.00
24	BA	95	U	O4'-C1'-N1	5.46	112.57	108.20
25	BB	267	C	C2-N3-C4	-5.46	117.17	119.90
25	BB	2615	U	O4'-C1'-C2'	5.46	112.52	107.60
37	BN	246	PRO	CA-N-CD	-5.46	103.85	111.50
52	B3	57	TYR	CG-CD2-CE2	-5.46	116.93	121.30
3	A1	99	C	N3-C4-C5	5.46	124.08	121.90
3	A1	446	G	N7-C8-N9	5.46	115.83	113.10
3	A1	468	A	O4'-C4'-C3'	5.46	110.47	106.10
3	A1	936	C	N3-C4-N4	-5.46	114.18	118.00
19	AT	57	ALA	CB-CA-C	5.46	118.29	110.10
21	AV	89	ASP	CB-CG-OD2	-5.46	113.38	118.30
24	BA	28	C	O5'-P-OP1	5.46	117.25	110.70
24	BA	102	G	C1'-O4'-C4'	-5.46	105.53	109.90
25	BB	166	U	O4'-C4'-C3'	5.46	110.47	106.10
25	BB	613	A	C3'-C2'-C1'	5.46	105.87	101.50
25	BB	701	G	C8-N9-C4	-5.46	104.22	106.40
25	BB	1185	G	N3-C2-N2	5.46	123.72	119.90
25	BB	1873	G	C6-N1-C2	-5.46	121.82	125.10
25	BB	1995	U	N1-C1'-C2'	5.46	121.10	114.00
25	BB	2063	C	C1'-O4'-C4'	5.46	114.27	109.90
25	BB	2149	U	N3-C2-O2	-5.46	118.38	122.20
25	BB	2155	U	O4'-C1'-C2'	5.46	112.52	107.60
25	BB	2564	A	C5-C6-N1	5.46	120.43	117.70
38	BO	9	GLU	OE1-CD-OE2	-5.46	116.75	123.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1159	U	C2-N3-C4	-5.46	123.72	127.00
13	AL	30	LEU	C-N-CA	5.46	135.35	121.70
25	BB	372	G	N7-C8-N9	5.46	115.83	113.10
25	BB	817	C	C4-C5-C6	-5.46	114.67	117.40
25	BB	1618	A	N7-C8-N9	-5.46	111.07	113.80
25	BB	2589	A	C5'-C4'-C3'	-5.46	107.27	116.00
37	BN	143	VAL	CG1-CB-CG2	-5.46	102.16	110.90
3	A1	101	A	N3-C4-N9	5.46	131.77	127.40
3	A1	376	G	N7-C8-N9	-5.46	110.37	113.10
3	A1	1170	A	C2-N3-C4	5.46	113.33	110.60
3	A1	1189	U	C3'-C2'-C1'	5.46	105.87	101.50
3	A1	1252	A	O4'-C1'-N9	5.46	112.57	108.20
3	A1	1393	U	O4'-C1'-N1	5.46	112.57	108.20
3	A1	1474	U	N1-C2-N3	5.46	118.17	114.90
24	BA	41	G	N1-C2-N3	5.46	127.18	123.90
24	BA	44	G	C1'-O4'-C4'	-5.46	105.53	109.90
25	BB	29	U	O4'-C4'-C3'	5.46	110.47	106.10
25	BB	204	A	C4-C5-C6	-5.46	114.27	117.00
25	BB	585	G	C6-C5-N7	5.46	133.68	130.40
25	BB	593	U	C2-N3-C4	5.46	130.28	127.00
25	BB	740	C	C3'-C2'-C1'	5.46	105.87	101.50
25	BB	899	A	C1'-O4'-C4'	-5.46	105.53	109.90
25	BB	955	U	C5'-C4'-O4'	5.46	115.65	109.10
25	BB	1089	A	C8-N9-C4	5.46	107.98	105.80
25	BB	1450	G	P-O3'-C3'	5.46	126.25	119.70
25	BB	1921	G	C8-N9-C4	5.46	108.58	106.40
25	BB	2059	A	N1-C2-N3	-5.46	126.57	129.30
25	BB	2119	A	O4'-C1'-N9	5.46	112.57	108.20
25	BB	2308	G	C6-C5-N7	5.46	133.68	130.40
25	BB	2578	G	N1-C2-N3	5.46	127.18	123.90
1	AP	8	U	N3-C4-O4	-5.46	115.58	119.40
1	AP	53	G	N1-C2-N3	5.46	127.17	123.90
1	AE	5	A	N9-C4-C5	-5.46	103.62	105.80
3	A1	141	G	C5-C6-O6	-5.46	125.33	128.60
3	A1	255	G	N7-C8-N9	5.46	115.83	113.10
3	A1	868	C	N1-C2-O2	5.46	122.17	118.90
3	A1	1227	A	C2-N3-C4	5.46	113.33	110.60
3	A1	1514	G	C6-C5-N7	5.46	133.67	130.40
4	AB	104	LYS	CA-CB-CG	5.46	125.40	113.40
5	AC	108	ASN	C-N-CA	5.46	135.34	121.70
25	BB	162	U	C4-C5-C6	5.46	122.97	119.70
25	BB	193	U	C4-C5-C6	5.46	122.97	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	354	A	O4'-C1'-N9	5.46	112.56	108.20
25	BB	765	C	C3'-C2'-C1'	5.46	105.87	101.50
25	BB	963	U	C5'-C4'-C3'	-5.46	107.27	116.00
25	BB	1210	G	N3-C4-N9	5.46	129.27	126.00
25	BB	1496	A	P-O3'-C3'	5.46	126.25	119.70
25	BB	1877	A	N1-C2-N3	-5.46	126.57	129.30
25	BB	1901	A	N9-C4-C5	-5.46	103.62	105.80
25	BB	1961	C	N3-C4-N4	-5.46	114.18	118.00
25	BB	2030	A	O4'-C1'-N9	5.46	112.57	108.20
25	BB	2250	G	N9-C1'-C2'	-5.46	106.00	112.00
25	BB	2398	U	C3'-C2'-C1'	5.46	105.86	101.50
25	BB	2727	A	C6-C5-N7	5.46	136.12	132.30
44	BU	43	ARG	NE-CZ-NH2	5.46	123.03	120.30
3	A1	459	A	N9-C4-C5	5.46	107.98	105.80
3	A1	1280	A	N9-C4-C5	5.46	107.98	105.80
24	BA	37	C	C6-N1-C2	-5.46	118.12	120.30
24	BA	68	C	C3'-C2'-C1'	5.46	105.86	101.50
24	BA	96	G	C5'-C4'-C3'	-5.46	107.27	116.00
25	BB	238	C	C5-C6-N1	-5.46	118.27	121.00
25	BB	386	G	C4-C5-C6	5.46	122.07	118.80
25	BB	501	A	C5'-C4'-C3'	-5.46	107.27	116.00
25	BB	625	G	C5'-C4'-O4'	5.46	115.65	109.10
25	BB	2048	G	C5-N7-C8	5.46	107.03	104.30
25	BB	2197	U	C2-N1-C1'	5.46	124.25	117.70
25	BB	2542	A	O4'-C1'-N9	5.46	112.56	108.20
25	BB	8	C	O4'-C1'-N1	-5.45	103.84	108.20
25	BB	287	G	C3'-C2'-C1'	5.45	105.86	101.50
25	BB	522	A	N7-C8-N9	5.45	116.53	113.80
25	BB	651	G	O4'-C1'-N9	5.45	112.56	108.20
25	BB	663	G	C6-N1-C2	-5.45	121.83	125.10
25	BB	707	G	N1-C2-N2	-5.45	111.29	116.20
25	BB	1220	G	N3-C2-N2	-5.45	116.08	119.90
25	BB	1283	G	C5'-C4'-O4'	5.45	115.64	109.10
25	BB	1441	G	C2'-C3'-O3'	5.45	122.43	113.70
25	BB	2239	G	C2-N3-C4	5.45	114.63	111.90
25	BB	2284	A	C6-C5-N7	5.45	136.12	132.30
25	BB	2504	U	P-O3'-C3'	5.45	126.24	119.70
25	BB	2684	U	C5'-C4'-C3'	-5.45	107.27	116.00
39	BP	30	VAL	CG1-CB-CG2	-5.45	102.17	110.90
1	AP	68	U	C5-C6-N1	5.45	125.43	122.70
1	AE	2	C	C1'-O4'-C4'	-5.45	105.54	109.90
3	A1	873	A	C1'-O4'-C4'	-5.45	105.54	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	938	A	C6-C5-N7	5.45	136.12	132.30
25	BB	574	A	N1-C6-N6	-5.45	115.33	118.60
25	BB	599	A	C8-N9-C4	-5.45	103.62	105.80
25	BB	1185	G	C3'-C2'-C1'	5.45	105.86	101.50
25	BB	2422	C	C4'-C3'-C2'	-5.45	97.15	102.60
25	BB	2466	C	N3-C4-C5	5.45	124.08	121.90
29	BF	130	PHE	CB-CG-CD1	-5.45	116.98	120.80
1	AP	10	G	P-O3'-C3'	5.45	126.24	119.70
3	A1	536	C	N1-C1'-C2'	5.45	121.08	114.00
3	A1	1122	U	N1-C1'-C2'	-5.45	106.00	112.00
3	A1	1340	A	O4'-C4'-C3'	5.45	110.46	106.10
25	BB	797	G	C1'-O4'-C4'	-5.45	105.54	109.90
25	BB	1255	U	N3-C4-C5	5.45	117.87	114.60
25	BB	1359	A	C5-C6-N6	5.45	128.06	123.70
25	BB	1919	A	N1-C6-N6	-5.45	115.33	118.60
25	BB	2369	A	C5-C6-N1	5.45	120.42	117.70
25	BB	2779	U	C4'-C3'-C2'	-5.45	97.15	102.60
51	B2	21	TYR	CG-CD2-CE2	-5.45	116.94	121.30
3	A1	244	U	N1-C2-O2	5.45	126.61	122.80
3	A1	826	C	C1'-O4'-C4'	-5.45	105.54	109.90
3	A1	1520	C	O4'-C4'-C3'	5.45	110.46	106.10
25	BB	224	U	C5-C4-O4	5.45	129.17	125.90
25	BB	242	G	N7-C8-N9	-5.45	110.38	113.10
25	BB	570	G	N9-C4-C5	5.45	107.58	105.40
25	BB	1075	C	O4'-C1'-C2'	5.45	112.50	107.60
25	BB	1557	C	C1'-O4'-C4'	-5.45	105.54	109.90
25	BB	1974	C	N3-C2-O2	-5.45	118.09	121.90
25	BB	2251	G	C5-C6-N1	5.45	114.22	111.50
25	BB	2323	G	C5'-C4'-C3'	-5.45	107.28	116.00
25	BB	2594	C	N1-C2-O2	5.45	122.17	118.90
25	BB	2604	U	C2-N3-C4	-5.45	123.73	127.00
1	AA	71	G	C5'-C4'-O4'	5.45	115.64	109.10
3	A1	112	G	C4-N9-C1'	-5.45	119.42	126.50
3	A1	589	U	N1-C1'-C2'	5.45	121.08	114.00
3	A1	763	G	C6-N1-C2	-5.45	121.83	125.10
3	A1	891	U	O3'-P-O5'	5.45	114.35	104.00
3	A1	983	A	N3-C4-C5	5.45	130.61	126.80
25	BB	252	G	C5'-C4'-O4'	5.45	115.64	109.10
25	BB	495	G	N3-C4-C5	-5.45	125.88	128.60
25	BB	1802	A	C6-C5-N7	5.45	136.11	132.30
25	BB	2687	U	C5'-C4'-O4'	5.45	115.64	109.10
32	BI	110	LYS	N-CA-CB	-5.45	100.80	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	239	U	C5'-C4'-C3'	-5.45	107.29	116.00
3	A1	586	C	C5-C6-N1	-5.45	118.28	121.00
3	A1	657	U	C5'-C4'-O4'	5.45	115.64	109.10
3	A1	669	G	N3-C4-N9	-5.45	122.73	126.00
3	A1	1138	G	C8-N9-C4	-5.45	104.22	106.40
21	AV	111	THR	OG1-CB-CG2	-5.45	97.47	110.00
25	BB	176	A	O4'-C4'-C3'	-5.45	98.55	104.00
25	BB	401	A	O4'-C4'-C3'	5.45	110.46	106.10
25	BB	462	C	C5-C6-N1	-5.45	118.28	121.00
25	BB	491	G	N7-C8-N9	5.45	115.82	113.10
25	BB	680	C	C2-N3-C4	-5.45	117.18	119.90
25	BB	746	U	N3-C2-O2	-5.45	118.39	122.20
25	BB	896	A	N1-C2-N3	-5.45	126.58	129.30
25	BB	951	C	C2-N3-C4	-5.45	117.18	119.90
25	BB	957	C	C6-N1-C2	-5.45	118.12	120.30
25	BB	1063	G	C5-N7-C8	-5.45	101.58	104.30
25	BB	1228	G	N9-C4-C5	-5.45	103.22	105.40
25	BB	1237	A	P-O3'-C3'	5.45	126.24	119.70
25	BB	1368	G	C2-N3-C4	5.45	114.62	111.90
25	BB	2438	U	N3-C2-O2	-5.45	118.39	122.20
25	BB	2557	G	C5-N7-C8	-5.45	101.58	104.30
25	BB	2854	G	N3-C4-C5	-5.45	125.88	128.60
29	BF	59	ARG	NH1-CZ-NH2	-5.45	113.41	119.40
2	AM	7	U	N3-C2-O2	-5.44	118.39	122.20
3	A1	98	A	C5-C6-N1	5.44	120.42	117.70
3	A1	245	U	N1-C2-O2	5.44	126.61	122.80
3	A1	604	G	N1-C6-O6	-5.44	116.63	119.90
3	A1	616	G	O4'-C1'-N9	-5.44	103.84	108.20
3	A1	858	G	O5'-P-OP2	-5.44	100.80	105.70
3	A1	877	G	N3-C4-C5	-5.44	125.88	128.60
3	A1	958	A	C3'-C2'-C1'	5.44	105.86	101.50
3	A1	1051	C	O4'-C4'-C3'	5.44	110.45	106.10
5	AC	15	VAL	C-N-CA	5.44	135.31	121.70
25	BB	126	A	C5-C6-N6	5.44	128.06	123.70
25	BB	273	G	N1-C2-N3	5.44	127.17	123.90
25	BB	441	U	C5'-C4'-O4'	5.44	115.63	109.10
25	BB	491	G	N1-C2-N2	-5.44	111.30	116.20
25	BB	643	A	N3-C4-N9	-5.44	123.05	127.40
25	BB	1059	G	O5'-P-OP2	5.44	117.23	110.70
25	BB	1317	G	C1'-O4'-C4'	-5.44	105.55	109.90
25	BB	2852	G	N1-C2-N3	5.44	127.17	123.90
1	AE	59	U	C4'-C3'-C2'	-5.44	97.16	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	128	G	C5-N7-C8	-5.44	101.58	104.30
3	A1	495	A	O4'-C1'-C2'	-5.44	100.36	105.80
3	A1	570	G	C8-N9-C4	-5.44	104.22	106.40
3	A1	722	G	C6-C5-N7	5.44	133.67	130.40
3	A1	1065	U	C6-N1-C2	-5.44	117.73	121.00
17	AR	78	ALA	CB-CA-C	5.44	118.26	110.10
25	BB	851	C	O3'-P-O5'	-5.44	93.66	104.00
25	BB	856	G	O4'-C1'-C2'	-5.44	100.36	105.80
25	BB	928	A	C3'-C2'-C1'	-5.44	97.15	101.50
25	BB	977	G	C6-C5-N7	5.44	133.67	130.40
25	BB	977	G	N1-C2-N3	-5.44	120.63	123.90
25	BB	1080	A	O4'-C1'-C2'	5.44	112.50	107.60
25	BB	2129	C	N3-C2-O2	-5.44	118.09	121.90
25	BB	2524	G	N9-C4-C5	-5.44	103.22	105.40
25	BB	2542	A	C4'-C3'-C2'	-5.44	97.16	102.60
25	BB	2571	U	N3-C4-O4	5.44	123.21	119.40
3	A1	43	C	O5'-P-OP1	-5.44	100.80	105.70
3	A1	170	U	C5'-C4'-O4'	5.44	115.63	109.10
3	A1	175	C	C3'-C2'-C1'	5.44	105.85	101.50
3	A1	275	G	N1-C2-N3	5.44	127.16	123.90
3	A1	1183	U	O4'-C1'-C2'	5.44	112.50	107.60
3	A1	1330	U	O4'-C4'-C3'	5.44	110.45	106.10
3	A1	1360	A	C5'-C4'-O4'	-5.44	102.57	109.10
3	A1	1461	G	C1'-O4'-C4'	-5.44	105.55	109.90
3	A1	1497	G	C2'-C3'-O3'	5.44	122.40	113.70
17	AR	55	ARG	CD-NE-CZ	5.44	131.22	123.60
25	BB	131	A	C6-N1-C2	5.44	121.86	118.60
25	BB	191	A	C2-N3-C4	5.44	113.32	110.60
25	BB	211	C	C4'-C3'-C2'	-5.44	97.16	102.60
25	BB	667	U	N3-C4-C5	5.44	117.86	114.60
25	BB	754	U	C5-C4-O4	-5.44	122.64	125.90
25	BB	917	A	C5'-C4'-C3'	-5.44	107.30	116.00
25	BB	965	C	O4'-C4'-C3'	5.44	110.45	106.10
25	BB	1003	G	C4'-C3'-C2'	-5.44	97.16	102.60
25	BB	1038	G	C5'-C4'-O4'	5.44	115.63	109.10
25	BB	1223	G	N3-C2-N2	-5.44	116.09	119.90
25	BB	1472	C	C2-N3-C4	-5.44	117.18	119.90
25	BB	1679	A	C5'-C4'-O4'	-5.44	102.57	109.10
25	BB	1687	G	O4'-C1'-N9	5.44	112.55	108.20
25	BB	2597	G	C5-C6-O6	5.44	131.87	128.60
25	BB	2748	A	C4'-C3'-C2'	-5.44	97.16	102.60
25	BB	2788	C	C1'-O4'-C4'	-5.44	105.55	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	51	A	N3-C4-N9	5.44	131.75	127.40
3	A1	1231	G	N1-C2-N3	5.44	127.16	123.90
3	A1	1363	A	C6-C5-N7	5.44	136.11	132.30
25	BB	26	G	C8-N9-C4	-5.44	104.22	106.40
25	BB	463	G	N1-C6-O6	-5.44	116.64	119.90
25	BB	994	C	O4'-C1'-N1	-5.44	103.85	108.20
25	BB	1247	A	C5-N7-C8	5.44	106.62	103.90
25	BB	1309	G	N7-C8-N9	5.44	115.82	113.10
25	BB	1602	U	N3-C4-C5	-5.44	111.34	114.60
25	BB	2190	G	C4-C5-N7	5.44	112.98	110.80
25	BB	2385	C	C5'-C4'-O4'	5.44	115.63	109.10
55	B6	46	PRO	CA-N-CD	-5.44	103.89	111.50
3	A1	602	A	C5-C6-N6	5.44	128.05	123.70
3	A1	903	G	O4'-C1'-N9	5.44	112.55	108.20
3	A1	1257	A	O4'-C4'-C3'	5.44	110.45	106.10
3	A1	1346	A	C5'-C4'-O4'	5.44	115.63	109.10
25	BB	83	A	N1-C6-N6	-5.44	115.34	118.60
25	BB	542	C	O4'-C1'-N1	5.44	112.55	108.20
25	BB	723	C	C4'-C3'-C2'	-5.44	97.16	102.60
25	BB	919	U	N3-C4-C5	5.44	117.86	114.60
25	BB	947	A	P-O3'-C3'	5.44	126.23	119.70
25	BB	980	A	C4'-C3'-C2'	-5.44	97.16	102.60
25	BB	1034	G	C5-C6-N1	5.44	114.22	111.50
25	BB	1085	A	C1'-O4'-C4'	-5.44	105.55	109.90
25	BB	1327	A	C3'-C2'-C1'	-5.44	97.15	101.50
25	BB	1346	G	C6-N1-C2	-5.44	121.84	125.10
25	BB	1901	A	C5-N7-C8	-5.44	101.18	103.90
25	BB	1975	G	N3-C2-N2	5.44	123.71	119.90
25	BB	2209	G	N9-C4-C5	5.44	107.58	105.40
3	A1	740	U	C5'-C4'-O4'	5.44	115.62	109.10
3	A1	887	G	O3'-P-O5'	-5.44	93.67	104.00
25	BB	79	C	C5-C6-N1	5.44	123.72	121.00
25	BB	792	A	N3-C4-N9	5.44	131.75	127.40
25	BB	1224	U	C4-C5-C6	5.44	122.96	119.70
25	BB	2183	A	N7-C8-N9	5.44	116.52	113.80
33	BJ	2	ARG	C-N-CA	5.44	135.29	121.70
38	BO	5	ARG	NE-CZ-NH2	-5.44	117.58	120.30
1	AA	13	C	N1-C2-N3	5.43	123.00	119.20
3	A1	169	C	N1-C2-O2	5.43	122.16	118.90
3	A1	860	A	C6-N1-C2	-5.43	115.34	118.60
3	A1	863	U	C2-N3-C4	-5.43	123.74	127.00
3	A1	1485	U	N3-C2-O2	-5.43	118.40	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	9	G	C6-N1-C2	-5.43	121.84	125.10
25	BB	79	C	O4'-C1'-C2'	-5.43	100.37	105.80
25	BB	439	A	C6-C5-N7	5.43	136.10	132.30
25	BB	732	C	C1'-O4'-C4'	-5.43	105.55	109.90
25	BB	745	G	N1-C6-O6	-5.43	116.64	119.90
25	BB	803	U	C5-C4-O4	-5.43	122.64	125.90
25	BB	894	U	O3'-P-O5'	5.43	114.33	104.00
25	BB	1131	G	C5-C6-N1	5.43	114.22	111.50
25	BB	1355	G	O4'-C1'-N9	5.43	112.55	108.20
25	BB	1568	G	C6-N1-C2	-5.43	121.84	125.10
25	BB	1574	C	C5-C6-N1	-5.43	118.28	121.00
25	BB	1792	G	C6-C5-N7	5.43	133.66	130.40
25	BB	2603	G	C6-N1-C2	-5.43	121.84	125.10
25	BB	2794	C	C5'-C4'-O4'	5.43	115.62	109.10
25	BB	2809	A	C6-C5-N7	5.43	136.10	132.30
1	AP	5	A	C3'-C2'-C1'	5.43	105.85	101.50
2	AM	8	U	N1-C2-N3	5.43	118.16	114.90
3	A1	29	U	C4'-C3'-C2'	5.43	108.03	102.60
3	A1	202	G	C5-C6-N1	5.43	114.22	111.50
3	A1	387	U	N3-C4-O4	5.43	123.20	119.40
3	A1	474	G	C5-C6-N1	5.43	114.22	111.50
3	A1	685	G	C5-C6-N1	5.43	114.22	111.50
3	A1	773	G	C5-C6-N1	5.43	114.22	111.50
15	AO	129	PHE	CB-CG-CD2	-5.43	117.00	120.80
18	AS	125	LYS	CA-CB-CG	5.43	125.35	113.40
24	BA	106	G	N3-C2-N2	5.43	123.70	119.90
25	BB	130	C	C4'-C3'-C2'	-5.43	97.17	102.60
25	BB	374	A	O4'-C1'-C2'	5.43	112.49	107.60
25	BB	425	G	C4-C5-C6	-5.43	115.54	118.80
25	BB	493	G	N1-C2-N2	-5.43	111.31	116.20
25	BB	642	U	C2-N3-C4	-5.43	123.74	127.00
25	BB	699	A	O5'-P-OP2	-5.43	100.81	105.70
25	BB	800	A	O4'-C1'-N9	5.43	112.55	108.20
25	BB	1234	U	O4'-C1'-N1	5.43	112.55	108.20
25	BB	1241	A	N9-C1'-C2'	-5.43	106.02	112.00
25	BB	1341	G	O4'-C1'-C2'	-5.43	100.37	105.80
25	BB	1556	C	N3-C4-N4	-5.43	114.20	118.00
25	BB	1587	G	C5'-C4'-O4'	5.43	115.62	109.10
25	BB	1923	U	C5'-C4'-O4'	5.43	115.62	109.10
25	BB	1934	C	C3'-C2'-C1'	5.43	105.85	101.50
25	BB	2080	A	C4-C5-N7	-5.43	107.98	110.70
25	BB	2152	G	N3-C4-C5	-5.43	125.88	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2612	C	C4-C5-C6	-5.43	114.68	117.40
25	BB	2836	U	N3-C4-C5	-5.43	111.34	114.60
32	BI	51	ASN	C-N-CA	5.43	135.28	121.70
1	AA	11	C	C4-C5-C6	-5.43	114.69	117.40
3	A1	363	A	C2-N3-C4	5.43	113.31	110.60
3	A1	1130	A	C4-C5-N7	-5.43	107.98	110.70
3	A1	1297	G	C6-N1-C2	-5.43	121.84	125.10
25	BB	277	G	C5'-C4'-O4'	5.43	115.62	109.10
25	BB	307	G	OP2-P-O3'	5.43	117.15	105.20
25	BB	913	U	O4'-C4'-C3'	5.43	110.44	106.10
25	BB	1476	U	C5'-C4'-O4'	5.43	115.62	109.10
25	BB	1817	G	C3'-C2'-C1'	5.43	105.84	101.50
25	BB	2578	G	C5'-C4'-C3'	-5.43	107.31	116.00
3	A1	56	U	C2-N1-C1'	5.43	124.22	117.70
3	A1	140	U	N3-C4-C5	-5.43	111.34	114.60
3	A1	218	U	C6-N1-C2	-5.43	117.74	121.00
3	A1	221	C	N3-C4-C5	5.43	124.07	121.90
3	A1	324	G	C2-N3-C4	5.43	114.61	111.90
3	A1	352	C	C6-N1-C1'	5.43	127.31	120.80
3	A1	462	G	C3'-C2'-C1'	5.43	105.84	101.50
3	A1	619	U	N3-C4-C5	5.43	117.86	114.60
3	A1	948	C	C6-N1-C2	5.43	122.47	120.30
3	A1	1016	A	C6-C5-N7	5.43	136.10	132.30
3	A1	1425	U	N3-C2-O2	-5.43	118.40	122.20
6	AD	123	ALA	CB-CA-C	5.43	118.24	110.10
25	BB	169	G	C4'-C3'-C2'	-5.43	97.17	102.60
25	BB	295	G	N3-C4-C5	-5.43	125.89	128.60
25	BB	386	G	N3-C2-N2	-5.43	116.10	119.90
25	BB	584	C	P-O3'-C3'	5.43	126.22	119.70
25	BB	631	A	C4-C5-C6	-5.43	114.28	117.00
25	BB	675	A	O5'-C5'-C4'	5.43	122.02	111.70
25	BB	798	G	N7-C8-N9	5.43	115.81	113.10
25	BB	833	A	N7-C8-N9	-5.43	111.08	113.80
25	BB	921	C	O4'-C1'-N1	5.43	112.54	108.20
25	BB	1113	U	C6-N1-C2	-5.43	117.74	121.00
25	BB	1217	U	C3'-C2'-C1'	-5.43	97.16	101.50
25	BB	1276	A	C4-C5-C6	-5.43	114.28	117.00
25	BB	1290	C	C2'-C3'-O3'	5.43	122.39	113.70
25	BB	1593	A	C5'-C4'-O4'	5.43	115.62	109.10
25	BB	1637	A	C4-C5-N7	5.43	113.42	110.70
25	BB	2445	G	C6-C5-N7	5.43	133.66	130.40
25	BB	67	U	OP2-P-O3'	5.43	117.14	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2031	A	C5-C6-N6	5.43	128.04	123.70
25	BB	2544	G	C5-C6-N1	5.43	114.21	111.50
25	BB	2653	U	N1-C2-O2	-5.43	119.00	122.80
25	BB	2737	G	C5'-C4'-C3'	-5.43	107.31	116.00
1	AA	49	C	C5-C4-N4	5.43	124.00	120.20
3	A1	786	G	C2-N3-C4	5.43	114.61	111.90
3	A1	846	G	OP1-P-O3'	5.43	117.14	105.20
3	A1	925	G	N1-C2-N3	5.43	127.16	123.90
3	A1	1248	A	C5-C6-N1	5.43	120.41	117.70
25	BB	508	A	C2-N3-C4	-5.43	107.89	110.60
25	BB	586	A	C4'-C3'-C2'	5.43	108.03	102.60
25	BB	666	A	C1'-O4'-C4'	-5.43	105.56	109.90
25	BB	951	C	C2'-C3'-O3'	5.43	122.38	113.70
25	BB	1145	C	O4'-C4'-C3'	5.43	110.44	106.10
25	BB	1273	U	C5'-C4'-C3'	-5.43	107.32	116.00
25	BB	1664	A	C5'-C4'-O4'	5.43	115.61	109.10
25	BB	2512	C	C3'-C2'-C1'	5.43	105.84	101.50
51	B2	96	TRP	CD1-NE1-CE2	5.43	113.88	109.00
3	A1	400	C	C1'-O4'-C4'	-5.42	105.56	109.90
3	A1	519	C	C1'-O4'-C4'	5.42	114.24	109.90
3	A1	783	C	C3'-C2'-C1'	-5.42	97.16	101.50
3	A1	871	U	C6-N1-C2	-5.42	117.75	121.00
3	A1	1355	G	C2-N3-C4	-5.42	109.19	111.90
10	AI	31	ARG	NH1-CZ-NH2	-5.42	113.43	119.40
15	AO	154	GLY	O-C-N	-5.42	114.02	122.70
25	BB	185	G	C5'-C4'-O4'	5.42	115.61	109.10
25	BB	837	C	C6-N1-C1'	-5.42	114.29	120.80
25	BB	868	U	C5-C6-N1	-5.42	119.99	122.70
25	BB	869	G	C5-C6-O6	5.42	131.85	128.60
25	BB	1231	U	N1-C2-N3	5.42	118.16	114.90
25	BB	1798	U	N3-C2-O2	-5.42	118.40	122.20
25	BB	1845	G	C6-C5-N7	5.42	133.66	130.40
25	BB	1873	G	O4'-C1'-N9	5.42	112.54	108.20
25	BB	2614	A	C2-N3-C4	5.42	113.31	110.60
25	BB	2661	G	N1-C2-N3	-5.42	120.65	123.90
25	BB	2692	G	C3'-C2'-C1'	-5.42	97.16	101.50
37	BN	269	ARG	NE-CZ-NH1	5.42	123.01	120.30
51	B2	58	ALA	N-CA-CB	-5.42	102.51	110.10
1	AA	35	A	O4'-C1'-N9	5.42	112.54	108.20
1	AE	15	G	N9-C1'-C2'	-5.42	106.03	112.00
3	A1	537	G	C8-N9-C4	5.42	108.57	106.40
3	A1	649	A	C6-N1-C2	-5.42	115.35	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1276	G	C5'-C4'-O4'	5.42	115.61	109.10
25	BB	548	G	C6-C5-N7	5.42	133.65	130.40
25	BB	1033	U	C5-C6-N1	5.42	125.41	122.70
25	BB	1113	U	C2-N3-C4	5.42	130.25	127.00
25	BB	1405	U	N3-C4-O4	-5.42	115.60	119.40
25	BB	1793	C	P-O3'-C3'	5.42	126.21	119.70
25	BB	2132	U	C4-C5-C6	5.42	122.95	119.70
25	BB	2389	G	N1-C2-N2	-5.42	111.32	116.20
2	AM	20	U	N1-C2-O2	5.42	126.59	122.80
3	A1	152	A	C1'-O4'-C4'	5.42	114.24	109.90
3	A1	213	G	N3-C2-N2	-5.42	116.11	119.90
3	A1	341	C	C5'-C4'-O4'	5.42	115.61	109.10
3	A1	647	C	C3'-C2'-C1'	5.42	105.84	101.50
3	A1	953	G	N3-C4-C5	-5.42	125.89	128.60
3	A1	1244	G	C5-C6-N1	5.42	114.21	111.50
3	A1	1379	G	C5-N7-C8	-5.42	101.59	104.30
3	A1	1391	U	O4'-C4'-C3'	5.42	110.44	106.10
11	AJ	33	TYR	CB-CG-CD2	-5.42	117.75	121.00
24	BA	36	C	C5-C4-N4	5.42	124.00	120.20
25	BB	227	A	C6-N1-C2	-5.42	115.35	118.60
25	BB	328	U	O4'-C1'-N1	5.42	112.54	108.20
25	BB	453	A	C2-N3-C4	5.42	113.31	110.60
25	BB	459	U	C5'-C4'-O4'	5.42	115.61	109.10
25	BB	1014	A	C2-N3-C4	5.42	113.31	110.60
25	BB	1194	A	O3'-P-O5'	5.42	114.30	104.00
25	BB	1435	G	C8-N9-C4	-5.42	104.23	106.40
25	BB	1900	A	N3-C4-C5	5.42	130.59	126.80
25	BB	2163	A	C5'-C4'-O4'	5.42	115.61	109.10
25	BB	2460	U	N3-C2-O2	-5.42	118.41	122.20
25	BB	2500	U	C4-C5-C6	-5.42	116.45	119.70
25	BB	2532	G	C1'-O4'-C4'	-5.42	105.56	109.90
25	BB	2565	A	C4'-C3'-C2'	-5.42	97.18	102.60
25	BB	2607	G	N3-C4-C5	-5.42	125.89	128.60
25	BB	2795	C	C2-N3-C4	-5.42	117.19	119.90
25	BB	2810	A	O4'-C1'-N9	5.42	112.54	108.20
48	BY	122	VAL	CG1-CB-CG2	-5.42	102.23	110.90
3	A1	10	A	N1-C6-N6	-5.42	115.35	118.60
3	A1	1037	C	C6-N1-C2	-5.42	118.13	120.30
25	BB	383	C	C5-C6-N1	-5.42	118.29	121.00
25	BB	568	U	O4'-C1'-C2'	-5.42	100.38	105.80
25	BB	593	U	N1-C2-O2	5.42	126.59	122.80
1	AP	57	G	C6-C5-N7	5.42	133.65	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	704	A	N1-C2-N3	-5.42	126.59	129.30
3	A1	898	G	N1-C2-N3	5.42	127.15	123.90
3	A1	962	C	O5'-P-OP2	-5.42	100.82	105.70
3	A1	1079	G	N3-C4-C5	-5.42	125.89	128.60
3	A1	1210	C	N3-C2-O2	-5.42	118.11	121.90
3	A1	1301	U	C4-C5-C6	-5.42	116.45	119.70
3	A1	1340	A	N7-C8-N9	5.42	116.51	113.80
11	AJ	62	GLU	O-C-N	5.42	131.37	122.70
25	BB	399	U	C4'-C3'-C2'	-5.42	97.18	102.60
25	BB	706	A	C6-C5-N7	5.42	136.09	132.30
25	BB	1004	U	O3'-P-O5'	5.42	114.30	104.00
25	BB	1148	U	N1-C2-N3	-5.42	111.65	114.90
25	BB	1449	G	C5-C6-N1	5.42	114.21	111.50
25	BB	1459	G	O4'-C1'-C2'	-5.42	100.38	105.80
25	BB	1762	A	C8-N9-C4	-5.42	103.63	105.80
25	BB	2172	U	C5-C6-N1	-5.42	119.99	122.70
25	BB	2230	G	N3-C4-C5	-5.42	125.89	128.60
25	BB	2542	A	C6-C5-N7	5.42	136.09	132.30
45	BV	34	ARG	NE-CZ-NH2	-5.42	117.59	120.30
55	B6	44	TYR	CD1-CE1-CZ	-5.42	114.92	119.80
1	AA	27	C	C4-C5-C6	5.42	120.11	117.40
3	A1	134	G	C3'-C2'-C1'	5.42	105.83	101.50
3	A1	198	G	N1-C6-O6	-5.42	116.65	119.90
3	A1	207	C	C6-N1-C2	-5.42	118.13	120.30
3	A1	272	C	O4'-C1'-C2'	-5.42	100.38	105.80
3	A1	379	C	O4'-C1'-N1	5.42	112.53	108.20
3	A1	439	U	C5-C6-N1	-5.42	119.99	122.70
3	A1	922	G	N1-C2-N3	5.42	127.15	123.90
4	AB	38	HIS	CA-CB-CG	5.42	122.81	113.60
24	BA	72	G	N1-C6-O6	-5.42	116.65	119.90
25	BB	363	G	P-O3'-C3'	5.42	126.20	119.70
25	BB	471	A	C4-C5-C6	-5.42	114.29	117.00
25	BB	495	G	C6-C5-N7	-5.42	127.15	130.40
25	BB	732	C	C6-N1-C2	-5.42	118.13	120.30
25	BB	1112	G	C4'-C3'-C2'	-5.42	97.18	102.60
25	BB	1347	A	C5-C6-N6	5.42	128.03	123.70
25	BB	1425	G	N9-C4-C5	5.42	107.57	105.40
25	BB	1579	A	C5'-C4'-C3'	-5.42	107.33	116.00
25	BB	1834	U	C4'-C3'-O3'	5.42	123.83	113.00
25	BB	2694	G	C2-N3-C4	-5.42	109.19	111.90
25	BB	2894	G	N1-C2-N3	-5.42	120.65	123.90
44	BU	4	ILE	CA-CB-CG1	5.42	121.29	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AE	15	G	C5-N7-C8	-5.42	101.59	104.30
20	AU	78	ARG	NH1-CZ-NH2	-5.42	113.44	119.40
25	BB	18	U	C5'-C4'-O4'	5.42	115.60	109.10
25	BB	613	A	C1'-O4'-C4'	-5.42	105.57	109.90
25	BB	2564	A	C8-N9-C4	5.42	107.97	105.80
25	BB	2677	G	C5'-C4'-O4'	-5.42	102.60	109.10
39	BP	50	VAL	O-C-N	-5.42	114.00	123.20
3	A1	44	A	C4-C5-C6	-5.41	114.29	117.00
3	A1	288	A	C6-C5-N7	5.41	136.09	132.30
3	A1	807	A	O4'-C4'-C3'	5.41	110.43	106.10
3	A1	884	U	C5'-C4'-O4'	5.41	115.60	109.10
3	A1	1211	U	N3-C2-O2	-5.41	118.41	122.20
3	A1	1322	C	O5'-C5'-C4'	5.41	121.98	111.70
3	A1	1346	A	C5-C6-N6	5.41	128.03	123.70
3	A1	1506	U	O4'-C1'-C2'	5.41	112.47	107.60
6	AD	28	GLN	O-C-N	-5.41	114.04	122.70
25	BB	695	G	N9-C4-C5	-5.41	103.23	105.40
25	BB	917	A	C4-C5-C6	-5.41	114.29	117.00
25	BB	1312	U	C5'-C4'-O4'	5.41	115.60	109.10
25	BB	1386	C	C5-C6-N1	-5.41	118.29	121.00
25	BB	1423	G	C3'-C2'-C1'	5.41	105.83	101.50
25	BB	1473	G	C2'-C3'-O3'	5.41	122.36	113.70
25	BB	1623	G	C5'-C4'-O4'	5.41	115.60	109.10
25	BB	1791	A	C2-N3-C4	5.41	113.31	110.60
25	BB	1876	A	C1'-O4'-C4'	-5.41	105.57	109.90
25	BB	1944	U	C2-N3-C4	5.41	130.25	127.00
25	BB	2360	G	C5-C6-N1	5.41	114.21	111.50
25	BB	2557	G	C3'-C2'-C1'	5.41	105.83	101.50
25	BB	2899	A	C3'-C2'-C1'	-5.41	97.17	101.50
34	BK	20	VAL	CA-CB-CG1	5.41	119.02	110.90
51	B2	76	PHE	CB-CG-CD1	-5.41	117.01	120.80
3	A1	206	C	N1-C2-O2	-5.41	115.65	118.90
3	A1	529	G	C1'-O4'-C4'	-5.41	105.57	109.90
3	A1	544	G	C5-C6-N1	5.41	114.21	111.50
3	A1	604	G	N3-C2-N2	-5.41	116.11	119.90
3	A1	864	A	C4-N9-C1'	-5.41	116.56	126.30
14	AN	78	LEU	CB-CG-CD1	5.41	120.20	111.00
24	BA	96	G	C8-N9-C4	-5.41	104.23	106.40
25	BB	402	A	C1'-O4'-C4'	-5.41	105.57	109.90
25	BB	739	A	C4'-C3'-O3'	5.41	123.83	113.00
25	BB	1389	G	C3'-C2'-C1'	-5.41	97.17	101.50
25	BB	2419	U	N1-C2-N3	5.41	118.15	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2427	C	O4'-C1'-N1	5.41	112.53	108.20
25	BB	2541	A	N9-C1'-C2'	-5.41	106.05	112.00
1	AA	70	C	O3'-P-O5'	-5.41	93.72	104.00
3	A1	321	A	C5-C6-N6	5.41	128.03	123.70
3	A1	726	C	C4-C5-C6	5.41	120.11	117.40
3	A1	1201	A	N1-C6-N6	-5.41	115.35	118.60
25	BB	90	U	C5'-C4'-O4'	5.41	115.59	109.10
25	BB	546	U	C3'-C2'-C1'	-5.41	97.17	101.50
25	BB	857	G	N9-C4-C5	5.41	107.56	105.40
25	BB	1341	G	C4-N9-C1'	-5.41	119.47	126.50
25	BB	1421	G	C1'-O4'-C4'	5.41	114.23	109.90
25	BB	1432	G	N1-C6-O6	5.41	123.15	119.90
25	BB	1583	A	C3'-C2'-C1'	5.41	105.83	101.50
25	BB	1604	C	C6-N1-C2	5.41	122.46	120.30
25	BB	1694	C	N1-C2-N3	5.41	122.99	119.20
25	BB	1733	G	C3'-C2'-C1'	5.41	105.83	101.50
25	BB	2070	A	O4'-C1'-N9	5.41	112.53	108.20
25	BB	2425	A	N7-C8-N9	5.41	116.50	113.80
25	BB	2436	G	C4-C5-N7	-5.41	108.64	110.80
25	BB	2676	C	C6-N1-C2	-5.41	118.14	120.30
25	BB	2692	G	N1-C2-N2	-5.41	111.33	116.20
1	AP	10	G	O4'-C1'-C2'	-5.41	100.39	105.80
3	A1	401	C	C5'-C4'-C3'	-5.41	107.35	116.00
3	A1	420	U	N1-C2-N3	5.41	118.14	114.90
3	A1	506	G	C1'-O4'-C4'	-5.41	105.57	109.90
3	A1	656	G	C8-N9-C4	5.41	108.56	106.40
3	A1	763	G	O4'-C1'-N9	5.41	112.53	108.20
3	A1	1289	A	N3-C4-C5	-5.41	123.01	126.80
3	A1	1456	A	C5-C6-N6	-5.41	119.37	123.70
12	AK	72	ARG	NE-CZ-NH1	5.41	123.00	120.30
25	BB	22	C	C2-N3-C4	-5.41	117.19	119.90
25	BB	79	C	N1-C2-O2	5.41	122.14	118.90
25	BB	190	A	C1'-O4'-C4'	-5.41	105.57	109.90
25	BB	382	A	C4-C5-N7	5.41	113.40	110.70
25	BB	1191	G	C4-C5-N7	5.41	112.96	110.80
25	BB	1246	A	C5-C6-N1	5.41	120.40	117.70
25	BB	1374	G	N9-C4-C5	-5.41	103.24	105.40
25	BB	1760	C	C5-C4-N4	5.41	123.99	120.20
25	BB	1989	G	N1-C6-O6	-5.41	116.65	119.90
25	BB	2012	G	C3'-C2'-C1'	5.41	105.83	101.50
1	AA	64	A	C4-C5-N7	5.41	113.40	110.70
3	A1	141	G	C8-N9-C4	-5.41	104.24	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	850	U	C4'-C3'-C2'	-5.41	97.19	102.60
3	A1	1042	A	C2'-C3'-O3'	5.41	122.35	113.70
3	A1	1234	C	O4'-C1'-N1	5.41	112.53	108.20
22	AW	126	PHE	CB-CG-CD2	5.41	124.58	120.80
25	BB	122	G	C5'-C4'-O4'	5.41	115.59	109.10
25	BB	1458	U	C4-C5-C6	5.41	122.94	119.70
25	BB	1709	U	C5-C6-N1	-5.41	120.00	122.70
25	BB	2682	A	N9-C1'-C2'	5.41	121.03	114.00
43	BT	1	ALA	CB-CA-C	5.41	118.21	110.10
43	BT	9	ARG	NE-CZ-NH1	-5.41	117.60	120.30
3	A1	724	G	C4-C5-N7	-5.41	108.64	110.80
3	A1	1031	C	O5'-P-OP1	-5.41	100.84	105.70
3	A1	1265	C	C6-N1-C2	-5.41	118.14	120.30
17	AR	167	PRO	N-CD-CG	5.41	111.31	103.20
25	BB	179	C	N1-C1'-C2'	-5.41	106.06	112.00
25	BB	287	G	C6-N1-C2	-5.41	121.86	125.10
25	BB	323	C	C2-N3-C4	-5.41	117.20	119.90
25	BB	442	G	N7-C8-N9	5.41	115.80	113.10
25	BB	899	A	P-O3'-C3'	5.41	126.19	119.70
25	BB	1621	U	C5'-C4'-O4'	5.41	115.59	109.10
25	BB	1641	A	O3'-P-O5'	5.41	114.27	104.00
25	BB	1780	A	C8-N9-C4	-5.41	103.64	105.80
25	BB	1829	A	C4-C5-C6	-5.41	114.30	117.00
25	BB	1965	C	C6-N1-C2	-5.41	118.14	120.30
25	BB	2046	G	C4-C5-N7	5.41	112.96	110.80
25	BB	2052	A	C6-C5-N7	5.41	136.08	132.30
25	BB	2221	G	C4-C5-C6	5.41	122.04	118.80
25	BB	2254	C	C4'-C3'-C2'	-5.41	97.19	102.60
25	BB	2266	A	N9-C4-C5	-5.41	103.64	105.80
25	BB	2481	G	C4-C5-N7	5.41	112.96	110.80
25	BB	2571	U	C4-C5-C6	5.41	122.94	119.70
25	BB	2734	A	C6-C5-N7	5.41	136.08	132.30
25	BB	2844	G	C2-N3-C4	5.41	114.60	111.90
3	A1	87	C	C5'-C4'-O4'	5.40	115.58	109.10
3	A1	406	G	O4'-C1'-N9	-5.40	103.88	108.20
3	A1	700	G	C1'-O4'-C4'	5.40	114.22	109.90
24	BA	12	C	O4'-C4'-C3'	5.40	110.42	106.10
24	BA	107	G	O5'-C5'-C4'	-5.40	101.43	111.70
25	BB	26	G	C4'-C3'-C2'	-5.40	97.20	102.60
25	BB	32	C	C5-C6-N1	-5.40	118.30	121.00
25	BB	378	C	O4'-C4'-C3'	-5.40	98.60	104.00
25	BB	687	C	O4'-C1'-N1	5.40	112.52	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1023	U	N1-C2-N3	5.40	118.14	114.90
25	BB	1587	G	O5'-P-OP1	-5.40	100.84	105.70
25	BB	1755	A	C4-C5-C6	-5.40	114.30	117.00
25	BB	2227	A	C5-C6-N6	5.40	128.02	123.70
25	BB	2703	C	N1-C2-N3	5.40	122.98	119.20
28	BE	10	GLU	C-N-CA	5.40	133.65	122.30
3	A1	52	C	N3-C4-N4	-5.40	114.22	118.00
3	A1	82	G	C4-C5-C6	-5.40	115.56	118.80
3	A1	199	A	N1-C2-N3	-5.40	126.60	129.30
3	A1	258	G	O4'-C4'-C3'	5.40	110.42	106.10
3	A1	397	A	O5'-C5'-C4'	-5.40	101.43	111.70
3	A1	1143	G	N3-C4-C5	-5.40	125.90	128.60
3	A1	1300	G	N3-C4-C5	-5.40	125.90	128.60
20	AU	68	VAL	CG1-CB-CG2	-5.40	102.26	110.90
22	AW	51	LEU	CB-CG-CD1	5.40	120.18	111.00
25	BB	37	C	N1-C2-O2	5.40	122.14	118.90
25	BB	971	G	C5-C6-N1	5.40	114.20	111.50
25	BB	1487	U	C4-C5-C6	5.40	122.94	119.70
25	BB	1548	A	C5-C6-N6	5.40	128.02	123.70
25	BB	1796	U	N3-C2-O2	-5.40	118.42	122.20
25	BB	2065	C	O4'-C1'-N1	-5.40	103.88	108.20
25	BB	2382	G	C4-C5-N7	-5.40	108.64	110.80
25	BB	2434	A	P-O5'-C5'	5.40	129.54	120.90
25	BB	2460	U	N1-C2-N3	5.40	118.14	114.90
25	BB	2562	U	C1'-O4'-C4'	-5.40	105.58	109.90
1	AE	38	A	C6-C5-N7	5.40	136.08	132.30
3	A1	10	A	N9-C1'-C2'	5.40	121.02	114.00
3	A1	34	C	C5'-C4'-C3'	-5.40	107.36	116.00
3	A1	345	C	O4'-C1'-C2'	-5.40	100.40	105.80
3	A1	357	G	O4'-C1'-N9	5.40	112.52	108.20
3	A1	388	G	C4-C5-N7	-5.40	108.64	110.80
3	A1	486	U	O4'-C1'-N1	5.40	112.52	108.20
3	A1	1323	G	N9-C4-C5	-5.40	103.24	105.40
9	AH	16	ARG	CD-NE-CZ	5.40	131.16	123.60
24	BA	74	U	N1-C2-N3	5.40	118.14	114.90
25	BB	361	G	N9-C1'-C2'	5.40	121.02	114.00
25	BB	1309	G	N1-C2-N2	5.40	121.06	116.20
25	BB	1315	C	O4'-C4'-C3'	5.40	110.42	106.10
25	BB	1821	A	N9-C4-C5	-5.40	103.64	105.80
25	BB	2278	A	C5'-C4'-C3'	-5.40	107.36	116.00
25	BB	2432	A	N3-C4-C5	-5.40	123.02	126.80
25	BB	2725	A	C5-N7-C8	-5.40	101.20	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	140	U	N1-C2-O2	5.40	126.58	122.80
3	A1	639	G	C5-C6-O6	-5.40	125.36	128.60
3	A1	1514	G	P-O3'-C3'	-5.40	113.22	119.70
17	AR	72	ARG	NE-CZ-NH2	-5.40	117.60	120.30
24	BA	13	G	C1'-O4'-C4'	-5.40	105.58	109.90
25	BB	1252	G	N3-C4-N9	5.40	129.24	126.00
25	BB	1982	U	C4-C5-C6	5.40	122.94	119.70
3	A1	269	C	N1-C2-N3	5.40	122.98	119.20
3	A1	537	G	C3'-C2'-C1'	5.40	105.82	101.50
3	A1	881	G	C2'-C3'-O3'	5.40	122.34	113.70
3	A1	938	A	C2-N3-C4	5.40	113.30	110.60
3	A1	1119	C	O4'-C1'-N1	5.40	112.52	108.20
25	BB	115	C	C6-N1-C2	-5.40	118.14	120.30
25	BB	656	G	C1'-O4'-C4'	5.40	114.22	109.90
25	BB	844	A	C2-N3-C4	5.40	113.30	110.60
25	BB	1220	G	C2'-C3'-O3'	5.40	122.34	113.70
25	BB	1435	G	C4'-C3'-C2'	-5.40	97.20	102.60
25	BB	1689	A	O3'-P-O5'	-5.40	93.75	104.00
25	BB	1720	U	P-O3'-C3'	5.40	126.18	119.70
1	AP	32	C	C4'-C3'-C2'	-5.40	97.20	102.60
3	A1	549	C	C5-C4-N4	5.40	123.98	120.20
3	A1	700	G	C2-N3-C4	5.40	114.60	111.90
25	BB	219	A	C5'-C4'-C3'	-5.40	107.37	116.00
25	BB	392	U	C5-C6-N1	5.40	125.40	122.70
25	BB	470	A	O4'-C1'-N9	5.40	112.52	108.20
25	BB	1009	A	C5-C6-N1	5.40	120.40	117.70
25	BB	1337	G	C5-C6-O6	5.40	131.84	128.60
25	BB	1522	A	O4'-C1'-C2'	-5.40	100.40	105.80
25	BB	1717	A	N3-C4-C5	5.40	130.58	126.80
25	BB	1907	G	C6-N1-C2	-5.40	121.86	125.10
25	BB	2437	G	N1-C6-O6	-5.40	116.66	119.90
25	BB	2777	G	C2'-C3'-O3'	5.40	122.33	113.70
37	BN	28	PRO	N-CD-CG	5.40	111.29	103.20
1	AP	25	C	C6-N1-C1'	5.39	127.27	120.80
1	AP	47	U	O5'-P-OP2	-5.39	100.84	105.70
3	A1	190	A	C1'-O4'-C4'	-5.39	105.58	109.90
3	A1	728	A	C4'-C3'-C2'	-5.39	97.21	102.60
3	A1	1149	C	C3'-C2'-C1'	5.39	105.82	101.50
3	A1	1321	U	C5'-C4'-C3'	-5.39	107.37	116.00
3	A1	1498	U	N1-C2-O2	-5.39	119.02	122.80
25	BB	233	A	C6-C5-N7	5.39	136.08	132.30
25	BB	278	A	N3-C4-N9	-5.39	123.08	127.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	907	G	C2-N3-C4	5.39	114.60	111.90
25	BB	1012	U	N1-C2-O2	5.39	126.58	122.80
25	BB	2171	A	C4-C5-C6	-5.39	114.30	117.00
29	BF	37	GLY	C-N-CA	5.39	135.19	121.70
3	A1	92	U	C3'-C2'-C1'	-5.39	97.19	101.50
3	A1	277	C	N1-C2-O2	5.39	122.14	118.90
3	A1	481	G	C5-N7-C8	-5.39	101.60	104.30
3	A1	926	G	C8-N9-C4	-5.39	104.24	106.40
3	A1	1438	G	N1-C6-O6	5.39	123.14	119.90
3	A1	1493	A	N3-C4-N9	-5.39	123.09	127.40
19	AT	49	TYR	CD1-CE1-CZ	5.39	124.65	119.80
22	AW	121	ARG	CD-NE-CZ	5.39	131.15	123.60
25	BB	202	U	C5-C6-N1	-5.39	120.00	122.70
25	BB	319	G	C4-C5-C6	-5.39	115.56	118.80
25	BB	1282	U	N1-C2-N3	5.39	118.14	114.90
25	BB	1510	G	C4'-C3'-C2'	-5.39	97.21	102.60
25	BB	1605	C	P-O3'-C3'	5.39	126.17	119.70
25	BB	1620	G	C6-C5-N7	5.39	133.64	130.40
25	BB	2526	G	C5'-C4'-O4'	5.39	115.57	109.10
25	BB	2540	C	O3'-P-O5'	5.39	114.24	104.00
25	BB	2733	A	C5-C6-N6	5.39	128.01	123.70
3	A1	1324	A	C5-C6-N6	5.39	128.01	123.70
3	A1	1331	G	C3'-C2'-C1'	-5.39	97.19	101.50
13	AL	73	PHE	CG-CD1-CE1	-5.39	114.87	120.80
25	BB	555	G	C8-N9-C1'	5.39	134.01	127.00
25	BB	1680	U	O4'-C1'-C2'	-5.39	100.41	105.80
25	BB	1681	G	OP2-P-O3'	5.39	117.06	105.20
25	BB	1681	G	C8-N9-C4	-5.39	104.24	106.40
25	BB	1700	A	C4-C5-C6	-5.39	114.31	117.00
25	BB	2166	U	O3'-P-O5'	5.39	114.24	104.00
25	BB	2207	C	C3'-C2'-C1'	5.39	105.81	101.50
25	BB	2505	G	O4'-C1'-N9	5.39	112.51	108.20
25	BB	2752	C	N1-C2-O2	5.39	122.14	118.90
1	AE	16	U	N3-C2-O2	-5.39	118.43	122.20
3	A1	88	U	O3'-P-O5'	-5.39	93.76	104.00
3	A1	266	G	C4-C5-C6	-5.39	115.57	118.80
3	A1	479	U	C5-C6-N1	-5.39	120.01	122.70
3	A1	676	A	C3'-C2'-C1'	5.39	105.81	101.50
3	A1	804	U	N3-C4-C5	-5.39	111.37	114.60
3	A1	963	G	C8-N9-C1'	5.39	134.01	127.00
3	A1	1319	A	N1-C2-N3	-5.39	126.61	129.30
3	A1	1528	U	C2-N3-C4	-5.39	123.77	127.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	AB	173	LYS	O-C-N	-5.39	114.08	122.70
24	BA	9	G	C4'-C3'-C2'	-5.39	97.21	102.60
25	BB	35	G	C4'-C3'-C2'	-5.39	97.21	102.60
25	BB	493	G	C2-N3-C4	5.39	114.59	111.90
25	BB	500	G	C5-C6-N1	5.39	114.19	111.50
25	BB	778	G	O4'-C4'-C3'	5.39	110.41	106.10
25	BB	1337	G	C3'-C2'-C1'	5.39	105.81	101.50
25	BB	1562	U	C4-C5-C6	5.39	122.93	119.70
25	BB	1999	C	C1'-O4'-C4'	-5.39	105.59	109.90
25	BB	2586	U	C4'-C3'-C2'	-5.39	97.21	102.60
25	BB	2862	G	O3'-P-O5'	-5.39	93.76	104.00
1	AA	73	A	O4'-C1'-N9	5.39	112.51	108.20
3	A1	280	C	C1'-O4'-C4'	-5.39	105.59	109.90
3	A1	683	G	N3-C2-N2	-5.39	116.13	119.90
25	BB	67	U	C5'-C4'-C3'	-5.39	107.38	116.00
25	BB	426	C	C3'-C2'-C1'	5.39	105.81	101.50
25	BB	832	U	C4-C5-C6	5.39	122.93	119.70
25	BB	1092	C	N3-C2-O2	-5.39	118.13	121.90
25	BB	2304	G	P-O5'-C5'	5.39	129.52	120.90
28	BE	90	VAL	CA-CB-CG2	5.39	118.98	110.90
51	B2	149	ARG	NH1-CZ-NH2	-5.39	113.47	119.40
1	AA	47	U	C3'-C2'-C1'	5.39	105.81	101.50
3	A1	192	A	N9-C4-C5	-5.39	103.64	105.80
3	A1	745	G	N9-C1'-C2'	-5.39	106.08	112.00
3	A1	883	C	C6-N1-C2	5.39	122.45	120.30
3	A1	964	A	O4'-C1'-N9	5.39	112.51	108.20
3	A1	1083	U	C5'-C4'-O4'	5.39	115.56	109.10
25	BB	116	C	C2-N3-C4	-5.39	117.21	119.90
25	BB	178	G	C2'-C3'-O3'	5.39	122.32	113.70
25	BB	212	G	C5'-C4'-C3'	-5.39	107.38	116.00
25	BB	433	C	C1'-O4'-C4'	-5.39	105.59	109.90
25	BB	484	C	O5'-C5'-C4'	-5.39	101.47	111.70
25	BB	690	G	O4'-C1'-N9	5.39	112.51	108.20
25	BB	798	G	C6-N1-C2	-5.39	121.87	125.10
25	BB	998	C	O5'-C5'-C4'	-5.39	101.47	111.70
25	BB	1131	G	C5'-C4'-C3'	-5.39	107.38	116.00
25	BB	1459	G	C5-N7-C8	-5.39	101.61	104.30
25	BB	1473	G	C5-C6-N1	5.39	114.19	111.50
25	BB	1948	G	C5-C6-O6	5.39	131.83	128.60
25	BB	2467	C	C2-N3-C4	-5.39	117.21	119.90
25	BB	2507	C	C1'-O4'-C4'	5.39	114.21	109.90
25	BB	2780	G	N7-C8-N9	5.39	115.79	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2821	A	N3-C4-N9	5.39	131.71	127.40
25	BB	2857	G	N3-C4-N9	5.39	129.23	126.00
25	BB	2883	A	C5'-C4'-O4'	5.39	115.56	109.10
52	B3	113	ASP	CB-CG-OD2	-5.39	113.45	118.30
3	A1	213	G	N9-C1'-C2'	-5.38	106.08	112.00
3	A1	295	C	C3'-C2'-C1'	5.38	105.81	101.50
3	A1	323	U	N1-C2-N3	5.38	118.13	114.90
3	A1	617	G	C5-N7-C8	5.38	106.99	104.30
3	A1	692	U	P-O3'-C3'	5.38	126.16	119.70
17	AR	102	TYR	CG-CD1-CE1	-5.38	116.99	121.30
20	AU	16	LYS	C-N-CA	5.38	135.16	121.70
25	BB	410	G	N3-C4-C5	-5.38	125.91	128.60
25	BB	898	C	C4-C5-C6	-5.38	114.71	117.40
25	BB	903	C	C2-N3-C4	-5.38	117.21	119.90
25	BB	1043	C	C6-N1-C2	-5.38	118.15	120.30
25	BB	1157	G	N3-C4-C5	-5.38	125.91	128.60
25	BB	1404	C	C4-C5-C6	-5.38	114.71	117.40
25	BB	1463	C	C4'-C3'-C2'	-5.38	97.22	102.60
25	BB	1908	C	N1-C2-O2	5.38	122.13	118.90
25	BB	2162	G	N1-C2-N3	5.38	127.13	123.90
25	BB	2243	U	O3'-P-O5'	5.38	114.23	104.00
25	BB	2380	C	C6-N1-C2	-5.38	118.15	120.30
25	BB	2416	C	N1-C2-N3	5.38	122.97	119.20
25	BB	2532	G	C5'-C4'-O4'	5.38	115.56	109.10
25	BB	2652	C	N3-C2-O2	-5.38	118.13	121.90
32	BI	98	TYR	CG-CD1-CE1	-5.38	116.99	121.30
52	B3	138	GLN	O-C-N	-5.38	114.08	122.70
3	A1	1295	U	C4-C5-C6	5.38	122.93	119.70
24	BA	56	G	C4-C5-C6	-5.38	115.57	118.80
25	BB	40	U	C5'-C4'-O4'	5.38	115.56	109.10
25	BB	159	G	C5'-C4'-O4'	5.38	115.56	109.10
25	BB	220	G	N1-C2-N2	5.38	121.05	116.20
25	BB	243	U	N1-C2-O2	5.38	126.57	122.80
25	BB	536	G	C4'-C3'-C2'	-5.38	97.22	102.60
25	BB	1149	G	N3-C4-N9	5.38	129.23	126.00
25	BB	1509	A	N9-C1'-C2'	-5.38	106.08	112.00
25	BB	2564	A	N1-C2-N3	5.38	131.99	129.30
1	AA	31	A	N7-C8-N9	5.38	116.49	113.80
1	AE	40	C	O5'-P-OP1	-5.38	100.86	105.70
3	A1	81	A	N3-C4-N9	-5.38	123.09	127.40
3	A1	172	A	P-O3'-C3'	5.38	126.16	119.70
3	A1	197	A	O4'-C4'-C3'	5.38	110.41	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
12	AK	55	ALA	CB-CA-C	5.38	118.17	110.10
24	BA	43	C	C5'-C4'-O4'	5.38	115.56	109.10
25	BB	103	A	C6-C5-N7	5.38	136.07	132.30
25	BB	156	A	C6-N1-C2	-5.38	115.37	118.60
25	BB	702	U	N3-C4-C5	-5.38	111.37	114.60
25	BB	1431	A	C5-C6-N6	5.38	128.01	123.70
25	BB	1955	U	C5'-C4'-C3'	5.38	124.61	116.00
25	BB	2098	U	C2-N3-C4	-5.38	123.77	127.00
25	BB	396	G	N1-C2-N2	5.38	121.04	116.20
25	BB	439	A	C5-N7-C8	-5.38	101.21	103.90
25	BB	1681	G	O4'-C1'-N9	5.38	112.50	108.20
25	BB	1960	A	O5'-P-OP2	-5.38	100.86	105.70
25	BB	2037	A	N9-C4-C5	5.38	107.95	105.80
25	BB	2068	U	N3-C2-O2	-5.38	118.43	122.20
25	BB	2455	G	C2-N3-C4	5.38	114.59	111.90
3	A1	554	A	C5-C6-N6	5.38	128.00	123.70
3	A1	629	A	O4'-C4'-C3'	-5.38	98.62	104.00
3	A1	720	C	C5'-C4'-O4'	5.38	115.55	109.10
3	A1	789	U	C1'-O4'-C4'	-5.38	105.60	109.90
3	A1	1374	A	C2'-C3'-O3'	5.38	122.31	113.70
24	BA	35	C	C2-N1-C1'	5.38	124.72	118.80
25	BB	8	C	C2-N3-C4	-5.38	117.21	119.90
25	BB	124	G	P-O5'-C5'	5.38	129.51	120.90
25	BB	288	U	C5-C6-N1	-5.38	120.01	122.70
25	BB	577	G	N1-C2-N2	5.38	121.04	116.20
25	BB	1159	U	O4'-C1'-N1	5.38	112.50	108.20
25	BB	1198	U	N3-C4-C5	5.38	117.83	114.60
25	BB	2134	A	N9-C4-C5	-5.38	103.65	105.80
46	BW	23	HIS	CB-CA-C	5.38	121.16	110.40
51	B2	21	TYR	CZ-CE2-CD2	5.38	124.64	119.80
1	AP	8	U	N1-C2-N3	5.38	118.13	114.90
3	A1	163	C	N1-C2-O2	5.38	122.13	118.90
3	A1	406	G	C5-N7-C8	-5.38	101.61	104.30
3	A1	643	C	C2-N3-C4	-5.38	117.21	119.90
3	A1	734	G	C6-C5-N7	5.38	133.63	130.40
3	A1	822	U	O5'-P-OP1	-5.38	100.86	105.70
3	A1	1082	A	N9-C4-C5	-5.38	103.65	105.80
24	BA	60	C	N3-C4-N4	-5.38	114.24	118.00
25	BB	25	U	N1-C1'-C2'	-5.38	106.09	112.00
25	BB	396	G	O4'-C1'-C2'	5.38	112.44	107.60
25	BB	672	C	O4'-C1'-C2'	-5.38	100.42	105.80
25	BB	674	G	C5-C6-N1	5.38	114.19	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1012	U	C4'-C3'-C2'	-5.38	97.22	102.60
25	BB	1052	C	O4'-C4'-C3'	5.38	110.40	106.10
25	BB	1178	C	C2-N3-C4	5.38	122.59	119.90
25	BB	1380	G	C4'-C3'-C2'	-5.38	97.22	102.60
25	BB	1407	G	C2-N3-C4	-5.38	109.21	111.90
25	BB	1497	U	O4'-C1'-N1	5.38	112.50	108.20
25	BB	1914	C	C2-N3-C4	-5.38	117.21	119.90
25	BB	2545	G	C5'-C4'-O4'	5.38	115.55	109.10
25	BB	2690	U	C5'-C4'-O4'	5.38	115.55	109.10
25	BB	2879	A	N7-C8-N9	5.38	116.49	113.80
25	BB	78	U	N3-C4-O4	5.38	123.16	119.40
25	BB	698	C	C2-N3-C4	-5.38	117.21	119.90
25	BB	1829	A	C6-C5-N7	5.38	136.06	132.30
25	BB	2013	A	C8-N9-C4	5.38	107.95	105.80
25	BB	2104	C	N1-C2-O2	5.38	122.12	118.90
25	BB	2785	C	C5-C6-N1	-5.38	118.31	121.00
35	BL	8	ARG	O-C-N	-5.38	114.10	122.70
3	A1	242	G	C4-C5-C6	-5.37	115.58	118.80
3	A1	630	A	N1-C2-N3	-5.37	126.61	129.30
3	A1	745	G	C5-C6-O6	5.37	131.82	128.60
3	A1	880	C	C2-N3-C4	-5.37	117.21	119.90
3	A1	1243	C	C4'-C3'-C2'	-5.37	97.23	102.60
4	AB	152	ASP	CB-CG-OD2	5.37	123.14	118.30
25	BB	884	U	C6-N1-C2	-5.37	117.78	121.00
25	BB	1013	C	C5'-C4'-O4'	5.37	115.55	109.10
25	BB	1356	G	O4'-C4'-C3'	5.37	110.40	106.10
25	BB	1381	G	N3-C2-N2	-5.37	116.14	119.90
25	BB	2208	C	C2-N3-C4	-5.37	117.21	119.90
25	BB	2338	C	N3-C4-C5	5.37	124.05	121.90
25	BB	2879	A	C5-C6-N6	5.37	128.00	123.70
1	AA	64	A	C4-C5-C6	-5.37	114.31	117.00
3	A1	105	G	C4'-C3'-C2'	-5.37	97.23	102.60
3	A1	107	G	N7-C8-N9	5.37	115.79	113.10
3	A1	188	C	C2-N3-C4	-5.37	117.21	119.90
3	A1	429	U	N1-C2-N3	5.37	118.12	114.90
3	A1	471	U	O4'-C4'-C3'	5.37	110.40	106.10
24	BA	48	U	C2-N3-C4	-5.37	123.78	127.00
25	BB	102	U	C1'-O4'-C4'	5.37	114.20	109.90
25	BB	388	G	O4'-C4'-C3'	-5.37	98.63	104.00
25	BB	551	G	O4'-C1'-N9	5.37	112.50	108.20
25	BB	837	C	C2-N3-C4	-5.37	117.21	119.90
25	BB	1072	C	N3-C4-N4	-5.37	114.24	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1189	A	C5'-C4'-O4'	5.37	115.55	109.10
25	BB	1215	G	N3-C2-N2	5.37	123.66	119.90
25	BB	1506	U	C5'-C4'-O4'	5.37	115.55	109.10
25	BB	1659	G	N1-C2-N3	-5.37	120.68	123.90
25	BB	2233	U	O4'-C1'-N1	5.37	112.50	108.20
25	BB	2362	C	N1-C2-O2	5.37	122.12	118.90
25	BB	2559	C	C4'-C3'-C2'	-5.37	97.23	102.60
3	A1	45	G	C5-N7-C8	-5.37	101.61	104.30
3	A1	352	C	N3-C4-C5	-5.37	119.75	121.90
3	A1	610	U	N3-C4-O4	-5.37	115.64	119.40
3	A1	649	A	P-O3'-C3'	5.37	126.14	119.70
25	BB	391	A	P-O3'-C3'	5.37	126.14	119.70
25	BB	1165	A	C5-C6-N6	5.37	128.00	123.70
25	BB	1247	A	C5-C6-N6	5.37	128.00	123.70
25	BB	1908	C	O4'-C4'-C3'	5.37	110.40	106.10
25	BB	2349	G	C1'-O4'-C4'	-5.37	105.60	109.90
25	BB	2761	A	C5'-C4'-C3'	-5.37	107.41	116.00
54	B5	78	LEU	CB-CG-CD2	5.37	120.13	111.00
1	AA	45	G	N3-C4-N9	-5.37	122.78	126.00
1	AA	64	A	O4'-C1'-N9	5.37	112.50	108.20
1	AP	71	G	C3'-C2'-C1'	5.37	105.80	101.50
1	AE	12	U	C1'-O4'-C4'	-5.37	105.61	109.90
3	A1	315	A	C5-N7-C8	-5.37	101.22	103.90
3	A1	504	C	N3-C4-N4	-5.37	114.24	118.00
3	A1	858	G	N9-C4-C5	5.37	107.55	105.40
3	A1	860	A	N3-C4-C5	-5.37	123.04	126.80
3	A1	989	U	N3-C2-O2	-5.37	118.44	122.20
3	A1	1246	A	C5'-C4'-O4'	5.37	115.54	109.10
25	BB	84	A	C4-C5-C6	-5.37	114.32	117.00
25	BB	113	U	N1-C2-N3	5.37	118.12	114.90
25	BB	144	A	O5'-C5'-C4'	5.37	121.90	111.70
25	BB	226	A	C1'-O4'-C4'	-5.37	105.61	109.90
25	BB	311	A	C5'-C4'-O4'	5.37	115.54	109.10
25	BB	550	C	C6-N1-C2	-5.37	118.15	120.30
25	BB	632	A	C2-N3-C4	5.37	113.28	110.60
25	BB	1432	G	N9-C4-C5	-5.37	103.25	105.40
25	BB	1472	C	N3-C4-C5	5.37	124.05	121.90
25	BB	1520	U	C6-N1-C2	-5.37	117.78	121.00
25	BB	1736	U	O4'-C1'-N1	5.37	112.49	108.20
25	BB	1798	U	C6-N1-C2	-5.37	117.78	121.00
25	BB	2145	C	O5'-P-OP2	5.37	117.14	110.70
51	B2	151	LEU	CB-CG-CD1	5.37	120.13	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AE	36	A	C5-C6-N6	5.37	127.99	123.70
3	A1	99	C	N1-C2-N3	5.37	122.96	119.20
3	A1	316	C	O4'-C1'-N1	5.37	112.49	108.20
3	A1	686	U	C5'-C4'-O4'	5.37	115.54	109.10
3	A1	818	G	O4'-C1'-N9	5.37	112.49	108.20
3	A1	1095	U	O4'-C1'-N1	5.37	112.49	108.20
25	BB	133	U	O4'-C1'-N1	5.37	112.49	108.20
25	BB	329	G	C5-C6-N1	5.37	114.18	111.50
25	BB	638	G	C6-C5-N7	5.37	133.62	130.40
25	BB	1308	A	C5-C6-N6	5.37	127.99	123.70
25	BB	1719	G	N3-C4-C5	5.37	131.28	128.60
25	BB	1840	G	N3-C2-N2	-5.37	116.14	119.90
25	BB	2125	G	C4'-C3'-C2'	-5.37	97.23	102.60
25	BB	2480	C	N1-C1'-C2'	-5.37	106.10	112.00
25	BB	2844	G	N3-C2-N2	5.37	123.66	119.90
40	BQ	41	HIS	C-N-CA	5.37	135.12	121.70
1	AP	34	G	C6-C5-N7	5.37	133.62	130.40
3	A1	27	G	N1-C2-N3	5.37	127.12	123.90
3	A1	247	G	C4'-C3'-C2'	-5.37	97.23	102.60
3	A1	398	U	N3-C2-O2	-5.37	118.44	122.20
3	A1	405	U	N1-C2-O2	5.37	126.56	122.80
3	A1	493	A	C6-N1-C2	-5.37	115.38	118.60
3	A1	592	G	N1-C2-N2	5.37	121.03	116.20
3	A1	940	C	P-O3'-C3'	-5.37	113.26	119.70
8	AG	32	ASP	N-CA-CB	-5.37	100.94	110.60
23	AX	45	ARG	C-N-CA	5.37	135.12	121.70
25	BB	73	A	C2-N3-C4	5.37	113.28	110.60
25	BB	531	C	O4'-C1'-N1	5.37	112.49	108.20
25	BB	637	A	N3-C4-N9	5.37	131.69	127.40
25	BB	939	G	N1-C6-O6	-5.37	116.68	119.90
25	BB	1248	G	C2-N3-C4	5.37	114.58	111.90
25	BB	1370	C	N3-C2-O2	-5.37	118.14	121.90
25	BB	1382	G	O4'-C1'-N9	5.37	112.49	108.20
25	BB	1409	U	O4'-C1'-N1	5.37	112.49	108.20
25	BB	1658	C	O4'-C4'-C3'	5.37	110.39	106.10
25	BB	1706	C	C5-C4-N4	5.37	123.96	120.20
25	BB	1974	C	C5-C4-N4	5.37	123.96	120.20
25	BB	2280	G	C6-N1-C2	5.37	128.32	125.10
25	BB	2553	G	N1-C2-N3	-5.37	120.68	123.90
38	BO	64	ILE	CA-CB-CG2	5.37	121.63	110.90
3	A1	100	G	C4-C5-N7	-5.36	108.66	110.80
3	A1	241	G	C8-N9-C4	5.36	108.55	106.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	373	A	C2-N3-C4	5.36	113.28	110.60
3	A1	420	U	N1-C1'-C2'	5.36	120.97	114.00
3	A1	520	A	C5'-C4'-O4'	5.36	115.54	109.10
3	A1	637	C	C2-N1-C1'	-5.36	112.90	118.80
3	A1	1001	C	O4'-C1'-C2'	5.36	112.43	107.60
15	AO	200	TRP	CE2-CD2-CG	5.36	111.59	107.30
24	BA	105	G	C8-N9-C4	-5.36	104.25	106.40
24	BA	113	C	C2'-C3'-O3'	5.36	122.28	113.70
25	BB	241	A	C5-C6-N6	5.36	127.99	123.70
25	BB	380	G	N3-C4-C5	-5.36	125.92	128.60
25	BB	448	U	P-O3'-C3'	5.36	126.14	119.70
25	BB	524	G	N9-C1'-C2'	-5.36	106.10	112.00
25	BB	770	G	C4'-C3'-C2'	-5.36	97.24	102.60
25	BB	826	U	O4'-C1'-C2'	-5.36	100.44	105.80
25	BB	885	C	N1-C2-O2	5.36	122.12	118.90
25	BB	894	U	N3-C4-O4	5.36	123.15	119.40
25	BB	1132	U	O4'-C1'-C2'	5.36	112.43	107.60
25	BB	1214	A	O4'-C1'-C2'	5.36	112.43	107.60
25	BB	1233	C	C6-N1-C2	-5.36	118.15	120.30
25	BB	1489	C	O4'-C1'-N1	5.36	112.49	108.20
25	BB	1710	G	N3-C2-N2	-5.36	116.15	119.90
25	BB	1753	G	N7-C8-N9	5.36	115.78	113.10
25	BB	1784	A	C5'-C4'-C3'	-5.36	107.42	116.00
25	BB	2326	C	O4'-C1'-N1	-5.36	103.91	108.20
25	BB	2525	G	N3-C4-N9	5.36	129.22	126.00
25	BB	2536	G	C4-C5-C6	-5.36	115.58	118.80
25	BB	2760	C	C5'-C4'-C3'	-5.36	107.42	116.00
25	BB	2836	U	C6-N1-C2	-5.36	117.78	121.00
1	AA	62	A	C6-N1-C2	5.36	121.82	118.60
3	A1	45	G	C1'-O4'-C4'	-5.36	105.61	109.90
3	A1	593	U	N1-C2-N3	5.36	118.12	114.90
25	BB	1195	G	C5'-C4'-O4'	5.36	115.53	109.10
25	BB	1660	G	C8-N9-C4	5.36	108.55	106.40
25	BB	1812	U	N1-C2-N3	5.36	118.12	114.90
25	BB	2303	G	C5-C6-N1	5.36	114.18	111.50
25	BB	2423	U	N1-C2-N3	5.36	118.12	114.90
25	BB	2467	C	O4'-C4'-C3'	5.36	110.39	106.10
25	BB	2699	C	C5-C4-N4	-5.36	116.45	120.20
25	BB	2713	U	O4'-C1'-C2'	-5.36	100.44	105.80
25	BB	2763	G	C6-C5-N7	-5.36	127.18	130.40
1	AA	74	C	P-O5'-C5'	5.36	129.48	120.90
3	A1	123	U	N3-C2-O2	-5.36	118.45	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	787	A	C5'-C4'-C3'	-5.36	107.42	116.00
3	A1	998	C	N1-C2-N3	5.36	122.95	119.20
3	A1	1058	G	C5-C6-O6	5.36	131.82	128.60
3	A1	1260	G	N3-C4-N9	5.36	129.22	126.00
3	A1	1399	C	O4'-C1'-N1	-5.36	103.91	108.20
24	BA	44	G	C4-C5-C6	-5.36	115.58	118.80
25	BB	865	C	C1'-O4'-C4'	-5.36	105.61	109.90
25	BB	979	A	C8-N9-C4	-5.36	103.66	105.80
25	BB	1134	A	C4-C5-C6	-5.36	114.32	117.00
25	BB	1530	G	C4'-C3'-C2'	-5.36	97.24	102.60
25	BB	1694	C	C6-N1-C2	-5.36	118.16	120.30
25	BB	1952	A	C4'-C3'-C2'	5.36	107.96	102.60
25	BB	2137	U	C5-C6-N1	-5.36	120.02	122.70
25	BB	2497	A	C6-N1-C2	-5.36	115.38	118.60
25	BB	2632	A	C5-C6-N6	5.36	127.99	123.70
25	BB	2763	G	N3-C4-N9	5.36	129.22	126.00
47	BX	4	ARG	NH1-CZ-NH2	-5.36	113.50	119.40
48	BY	141	ARG	NE-CZ-NH2	5.36	122.98	120.30
3	A1	414	A	C5-N7-C8	-5.36	101.22	103.90
3	A1	690	G	C4-C5-C6	-5.36	115.58	118.80
25	BB	200	U	O5'-P-OP1	-5.36	100.88	105.70
25	BB	356	G	C5-N7-C8	-5.36	101.62	104.30
25	BB	665	U	C6-N1-C2	-5.36	117.78	121.00
25	BB	1252	G	C2-N3-C4	5.36	114.58	111.90
25	BB	1425	G	C5'-C4'-C3'	-5.36	107.43	116.00
25	BB	1565	C	C5'-C4'-C3'	-5.36	107.42	116.00
25	BB	1636	U	O4'-C1'-C2'	5.36	112.42	107.60
25	BB	2488	G	C4-C5-N7	-5.36	108.66	110.80
25	BB	2758	A	C6-C5-N7	5.36	136.05	132.30
1	AP	59	U	C5'-C4'-O4'	5.36	115.53	109.10
3	A1	222	C	C1'-O4'-C4'	-5.36	105.61	109.90
3	A1	249	U	C4'-C3'-C2'	5.36	107.96	102.60
3	A1	349	A	N3-C4-C5	5.36	130.55	126.80
3	A1	699	C	O4'-C4'-C3'	5.36	110.39	106.10
3	A1	1520	C	C4'-C3'-C2'	-5.36	97.24	102.60
25	BB	43	G	C8-N9-C4	-5.36	104.26	106.40
25	BB	86	G	O3'-P-O5'	5.36	114.18	104.00
25	BB	168	G	N1-C6-O6	-5.36	116.69	119.90
25	BB	207	A	N9-C4-C5	5.36	107.94	105.80
25	BB	712	G	C5-C6-N1	5.36	114.18	111.50
25	BB	784	G	N3-C4-N9	5.36	129.21	126.00
25	BB	1084	A	C5'-C4'-O4'	5.36	115.53	109.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1132	U	C3'-C2'-C1'	-5.36	97.21	101.50
25	BB	1207	C	C6-N1-C2	-5.36	118.16	120.30
25	BB	1364	G	N3-C4-N9	5.36	129.21	126.00
25	BB	1678	A	N3-C4-N9	-5.36	123.11	127.40
25	BB	1897	G	C5'-C4'-C3'	-5.36	107.43	116.00
25	BB	1939	U	C5-C6-N1	-5.36	120.02	122.70
25	BB	2020	A	C5'-C4'-O4'	5.36	115.53	109.10
25	BB	2053	G	C5'-C4'-O4'	-5.36	102.67	109.10
25	BB	2118	U	N3-C2-O2	-5.36	118.45	122.20
25	BB	2367	G	C5-N7-C8	-5.36	101.62	104.30
25	BB	2369	A	C1'-O4'-C4'	5.36	114.19	109.90
25	BB	2389	G	O3'-P-O5'	5.36	114.18	104.00
25	BB	2765	A	C5-N7-C8	-5.36	101.22	103.90
1	AP	37	G	N1-C6-O6	-5.36	116.69	119.90
3	A1	144	G	C4'-C3'-C2'	-5.36	97.25	102.60
3	A1	174	A	N9-C4-C5	5.36	107.94	105.80
3	A1	393	A	C4-C5-N7	5.36	113.38	110.70
3	A1	660	C	C2-N3-C4	-5.36	117.22	119.90
3	A1	719	C	P-O3'-C3'	5.36	126.13	119.70
3	A1	771	G	C5'-C4'-C3'	-5.36	107.43	116.00
3	A1	772	U	N1-C2-O2	5.36	126.55	122.80
3	A1	792	A	N9-C4-C5	5.36	107.94	105.80
3	A1	1136	C	N3-C4-N4	-5.36	114.25	118.00
25	BB	145	C	C3'-C2'-C1'	-5.36	97.22	101.50
25	BB	152	A	C8-N9-C1'	5.36	137.34	127.70
25	BB	342	A	N3-C4-C5	-5.36	123.05	126.80
25	BB	503	A	C6-N1-C2	-5.36	115.39	118.60
25	BB	717	C	C3'-C2'-C1'	5.36	105.78	101.50
25	BB	1715	G	C6-C5-N7	5.36	133.61	130.40
25	BB	1724	G	C8-N9-C4	-5.36	104.26	106.40
25	BB	2062	A	C5'-C4'-C3'	-5.36	107.43	116.00
33	BJ	32	ARG	NE-CZ-NH2	5.36	122.98	120.30
38	BO	17	ASP	CB-CG-OD2	5.36	123.12	118.30
1	AP	57	G	N1-C2-N2	5.35	121.02	116.20
3	A1	192	A	N9-C1'-C2'	-5.35	106.11	112.00
3	A1	732	C	N3-C4-C5	5.35	124.04	121.90
25	BB	124	G	C6-C5-N7	5.35	133.61	130.40
25	BB	127	A	O4'-C4'-C3'	5.35	110.38	106.10
25	BB	129	C	C1'-O4'-C4'	5.35	114.18	109.90
25	BB	532	A	P-O3'-C3'	5.35	126.12	119.70
25	BB	2312	U	O5'-C5'-C4'	-5.35	101.53	111.70
1	AE	26	G	N7-C8-N9	5.35	115.78	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AE	74	C	C5'-C4'-O4'	5.35	115.52	109.10
3	A1	69	G	O3'-P-O5'	-5.35	93.83	104.00
3	A1	354	G	C5-C6-O6	-5.35	125.39	128.60
3	A1	481	G	C1'-O4'-C4'	-5.35	105.62	109.90
6	AD	11	ARG	NE-CZ-NH1	5.35	122.98	120.30
25	BB	69	C	N1-C2-O2	5.35	122.11	118.90
25	BB	649	G	N9-C4-C5	-5.35	103.26	105.40
25	BB	797	G	C5-N7-C8	-5.35	101.62	104.30
25	BB	1597	A	N3-C4-N9	-5.35	123.12	127.40
25	BB	1776	G	O4'-C1'-N9	-5.35	103.92	108.20
25	BB	1884	G	N3-C4-C5	-5.35	125.92	128.60
25	BB	1936	A	C3'-C2'-C1'	-5.35	97.22	101.50
25	BB	2069	G	C5-C6-N1	5.35	114.18	111.50
25	BB	2678	C	O4'-C1'-N1	5.35	112.48	108.20
25	BB	2762	C	C5-C6-N1	-5.35	118.32	121.00
3	A1	581	G	N1-C2-N2	-5.35	111.38	116.20
3	A1	966	G	C8-N9-C4	-5.35	104.26	106.40
3	A1	1016	A	N1-C2-N3	-5.35	126.62	129.30
3	A1	1130	A	O3'-P-O5'	5.35	114.17	104.00
24	BA	86	G	N1-C2-N3	5.35	127.11	123.90
25	BB	579	G	C1'-O4'-C4'	-5.35	105.62	109.90
25	BB	798	G	N3-C2-N2	-5.35	116.16	119.90
25	BB	2086	U	N1-C2-N3	5.35	118.11	114.90
25	BB	2307	G	N1-C2-N2	-5.35	111.38	116.20
25	BB	2527	C	C3'-C2'-C1'	5.35	105.78	101.50
51	B2	142	TYR	CD1-CE1-CZ	5.35	124.62	119.80
3	A1	225	C	O4'-C1'-N1	-5.35	103.92	108.20
3	A1	249	U	O4'-C1'-N1	-5.35	103.92	108.20
3	A1	250	A	C4'-C3'-C2'	-5.35	97.25	102.60
3	A1	616	G	C1'-O4'-C4'	-5.35	105.62	109.90
3	A1	727	G	N3-C4-C5	-5.35	125.93	128.60
3	A1	796	C	C6-N1-C2	5.35	122.44	120.30
3	A1	963	G	N1-C2-N3	5.35	127.11	123.90
3	A1	1301	U	N1-C2-O2	5.35	126.55	122.80
3	A1	1465	A	O4'-C1'-N9	-5.35	103.92	108.20
25	BB	262	A	C6-C5-N7	5.35	136.04	132.30
25	BB	695	G	O4'-C4'-C3'	-5.35	98.65	104.00
25	BB	839	U	C6-N1-C2	-5.35	117.79	121.00
25	BB	1032	A	P-O3'-C3'	5.35	126.12	119.70
25	BB	1155	A	OP1-P-OP2	-5.35	111.58	119.60
25	BB	1429	G	C5-C6-O6	-5.35	125.39	128.60
25	BB	2299	U	N1-C1'-C2'	-5.35	106.11	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2630	G	N1-C2-N2	-5.35	111.39	116.20
1	AA	14	A	C4'-C3'-C2'	-5.35	97.25	102.60
1	AP	35	A	C4'-C3'-C2'	-5.35	97.25	102.60
3	A1	21	G	N9-C4-C5	5.35	107.54	105.40
3	A1	773	G	N3-C2-N2	-5.35	116.16	119.90
3	A1	885	G	N1-C6-O6	5.35	123.11	119.90
3	A1	931	C	C4-C5-C6	-5.35	114.73	117.40
3	A1	1190	G	C5-N7-C8	-5.35	101.63	104.30
3	A1	1195	C	O4'-C4'-C3'	5.35	110.38	106.10
18	AS	34	ALA	N-CA-CB	-5.35	102.61	110.10
25	BB	184	C	C3'-C2'-C1'	5.35	105.78	101.50
25	BB	352	A	C6-C5-N7	5.35	136.04	132.30
25	BB	378	C	N1-C2-N3	5.35	122.94	119.20
25	BB	411	G	N7-C8-N9	5.35	115.77	113.10
25	BB	907	G	O4'-C1'-N9	-5.35	103.92	108.20
25	BB	1003	G	C3'-C2'-C1'	5.35	105.78	101.50
25	BB	1076	C	C6-N1-C1'	5.35	127.22	120.80
25	BB	1190	G	N1-C2-N2	-5.35	111.39	116.20
25	BB	1280	G	C5-C6-O6	5.35	131.81	128.60
25	BB	1376	C	C5'-C4'-C3'	-5.35	107.44	116.00
25	BB	1623	G	O5'-C5'-C4'	-5.35	101.54	111.70
25	BB	2001	C	C4-C5-C6	5.35	120.07	117.40
25	BB	2388	A	C5'-C4'-O4'	5.35	115.52	109.10
25	BB	2592	G	C4-C5-C6	-5.35	115.59	118.80
25	BB	2603	G	N3-C4-N9	5.35	129.21	126.00
25	BB	2665	A	C1'-O4'-C4'	5.35	114.18	109.90
47	BX	36	ARG	NE-CZ-NH2	5.35	122.97	120.30
3	A1	131	A	C5-C6-N6	5.35	127.98	123.70
3	A1	741	G	O4'-C4'-C3'	5.35	110.38	106.10
3	A1	1290	G	C5'-C4'-O4'	5.35	115.52	109.10
24	BA	63	C	O4'-C1'-C2'	5.35	112.41	107.60
25	BB	73	A	C4-C5-N7	-5.35	108.03	110.70
25	BB	373	U	C6-N1-C2	-5.35	117.79	121.00
25	BB	1085	A	N1-C2-N3	-5.35	126.63	129.30
25	BB	1383	A	C5-C6-N6	5.35	127.98	123.70
25	BB	1639	C	C5'-C4'-O4'	5.35	115.52	109.10
25	BB	2428	G	O4'-C1'-C2'	-5.35	100.45	105.80
25	BB	2518	A	C4-C5-C6	-5.35	114.33	117.00
1	AA	56	C	C5'-C4'-C3'	-5.34	107.45	116.00
3	A1	680	C	C6-N1-C2	-5.34	118.16	120.30
3	A1	904	U	C3'-C2'-C1'	5.34	105.78	101.50
3	A1	1012	A	O4'-C1'-N9	-5.34	103.92	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	841	G	N9-C4-C5	-5.34	103.26	105.40
25	BB	1037	G	C5-C6-N1	5.34	114.17	111.50
25	BB	1128	G	C8-N9-C4	-5.34	104.26	106.40
25	BB	1195	G	C2-N3-C4	-5.34	109.23	111.90
25	BB	1553	A	C5-C6-N6	5.34	127.97	123.70
25	BB	1557	C	N3-C4-C5	5.34	124.04	121.90
25	BB	2002	G	N3-C4-C5	-5.34	125.93	128.60
25	BB	2095	A	N3-C4-N9	5.34	131.68	127.40
25	BB	2335	A	N3-C4-C5	5.34	130.54	126.80
25	BB	2486	C	C2-N3-C4	-5.34	117.23	119.90
25	BB	2702	G	N1-C2-N2	5.34	121.01	116.20
3	A1	726	C	O3'-P-O5'	5.34	114.15	104.00
3	A1	849	G	C3'-C2'-C1'	5.34	105.77	101.50
3	A1	1358	U	C6-N1-C2	-5.34	117.79	121.00
25	BB	282	A	P-O5'-C5'	5.34	129.45	120.90
25	BB	376	G	C5-N7-C8	-5.34	101.63	104.30
25	BB	1352	U	O4'-C1'-N1	5.34	112.47	108.20
25	BB	1872	A	N9-C4-C5	-5.34	103.66	105.80
25	BB	1916	A	C3'-C2'-C1'	-5.34	97.23	101.50
25	BB	2157	G	N3-C2-N2	-5.34	116.16	119.90
25	BB	2443	C	C2-N3-C4	-5.34	117.23	119.90
25	BB	2455	G	N3-C2-N2	-5.34	116.16	119.90
25	BB	2663	G	O4'-C4'-C3'	-5.34	98.66	104.00
3	A1	54	C	C3'-C2'-C1'	-5.34	97.23	101.50
3	A1	224	U	C4'-C3'-C2'	-5.34	97.26	102.60
3	A1	241	G	N3-C4-C5	-5.34	125.93	128.60
3	A1	513	C	N1-C2-O2	5.34	122.11	118.90
3	A1	1363	A	C3'-C2'-C1'	-5.34	97.23	101.50
4	AB	212	TYR	CB-CG-CD1	5.34	124.20	121.00
24	BA	17	C	N3-C4-C5	5.34	124.04	121.90
24	BA	77	U	C4-C5-C6	5.34	122.91	119.70
25	BB	831	G	C5-C6-N1	5.34	114.17	111.50
25	BB	914	G	C2'-C3'-O3'	5.34	122.25	113.70
25	BB	1161	C	O4'-C4'-C3'	-5.34	98.66	104.00
25	BB	1349	C	N3-C4-C5	5.34	124.04	121.90
25	BB	1483	G	C4-C5-N7	-5.34	108.66	110.80
25	BB	1997	C	P-O5'-C5'	5.34	129.44	120.90
25	BB	2183	A	C5'-C4'-O4'	5.34	115.51	109.10
25	BB	2550	G	C5-N7-C8	5.34	106.97	104.30
3	A1	840	C	C5-C4-N4	-5.34	116.46	120.20
25	BB	60	G	C4'-C3'-C2'	-5.34	97.26	102.60
25	BB	334	C	C3'-C2'-C1'	-5.34	97.23	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	383	C	C2-N3-C4	-5.34	117.23	119.90
25	BB	425	G	N3-C2-N2	-5.34	116.16	119.90
25	BB	560	C	C2-N3-C4	-5.34	117.23	119.90
25	BB	979	A	C2-N3-C4	5.34	113.27	110.60
25	BB	1273	U	C3'-C2'-C1'	-5.34	97.23	101.50
25	BB	1501	G	N1-C2-N2	-5.34	111.39	116.20
25	BB	1733	G	C5-N7-C8	5.34	106.97	104.30
25	BB	1905	C	C5-C4-N4	-5.34	116.46	120.20
25	BB	1929	G	O4'-C1'-N9	5.34	112.47	108.20
25	BB	2206	C	N1-C2-N3	5.34	122.94	119.20
25	BB	2608	G	N1-C2-N2	5.34	121.00	116.20
25	BB	2620	C	C5-C6-N1	5.34	123.67	121.00
25	BB	2694	G	N9-C1'-C2'	5.34	120.94	114.00
25	BB	2738	A	N9-C1'-C2'	-5.34	106.13	112.00
25	BB	2766	A	P-O3'-C3'	5.34	126.11	119.70
1	AA	36	A	C8-N9-C4	-5.34	103.67	105.80
3	A1	202	G	C6-C5-N7	5.34	133.60	130.40
3	A1	1130	A	C1'-O4'-C4'	5.34	114.17	109.90
3	A1	1357	A	C3'-C2'-C1'	5.34	105.77	101.50
21	AV	62	LEU	CB-CG-CD1	5.34	120.07	111.00
24	BA	4	C	N1-C2-O2	5.34	122.10	118.90
25	BB	196	A	C2-N3-C4	5.34	113.27	110.60
25	BB	1689	A	C4-C5-N7	5.34	113.37	110.70
25	BB	2293	G	N1-C6-O6	-5.34	116.70	119.90
25	BB	2551	C	N3-C4-N4	-5.34	114.26	118.00
25	BB	2627	G	C4-C5-C6	-5.34	115.60	118.80
3	A1	116	A	C6-N1-C2	-5.34	115.40	118.60
3	A1	588	G	C8-N9-C4	-5.34	104.27	106.40
3	A1	792	A	O4'-C1'-C2'	5.34	112.40	107.60
3	A1	820	U	O4'-C1'-C2'	-5.34	100.46	105.80
3	A1	1109	C	C5-C4-N4	5.34	123.94	120.20
3	A1	1370	G	C6-N1-C2	-5.34	121.90	125.10
18	AS	14	LEU	CB-CG-CD1	5.34	120.07	111.00
25	BB	228	C	O4'-C4'-C3'	5.34	110.37	106.10
25	BB	325	G	C5'-C4'-C3'	-5.34	107.46	116.00
25	BB	462	C	C2-N3-C4	-5.34	117.23	119.90
25	BB	514	A	P-O3'-C3'	5.34	126.10	119.70
25	BB	807	U	N1-C2-N3	5.34	118.10	114.90
25	BB	1139	G	O3'-P-O5'	-5.34	93.86	104.00
25	BB	1334	G	O5'-C5'-C4'	5.34	121.84	111.70
25	BB	1346	G	P-O3'-C3'	5.34	126.10	119.70
25	BB	1369	G	C5-C6-N1	5.34	114.17	111.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1468	U	O4'-C1'-C2'	-5.34	100.46	105.80
25	BB	1473	G	C1'-O4'-C4'	-5.34	105.63	109.90
25	BB	1708	C	C5'-C4'-O4'	5.34	115.50	109.10
25	BB	1741	C	N1-C2-N3	5.34	122.94	119.20
25	BB	1928	A	N1-C2-N3	-5.34	126.63	129.30
25	BB	2001	C	C2-N3-C4	-5.34	117.23	119.90
25	BB	2450	A	C8-N9-C4	-5.34	103.67	105.80
25	BB	2693	G	N1-C6-O6	-5.34	116.70	119.90
43	BT	44	ALA	N-CA-CB	-5.34	102.63	110.10
3	A1	885	G	C4-C5-C6	5.33	122.00	118.80
3	A1	1013	G	N1-C6-O6	-5.33	116.70	119.90
25	BB	582	A	C6-C5-N7	5.33	136.03	132.30
25	BB	726	G	O4'-C1'-N9	5.33	112.47	108.20
25	BB	1085	A	N3-C4-N9	-5.33	123.13	127.40
25	BB	1780	A	C2-N3-C4	-5.33	107.93	110.60
34	BK	97	LYS	N-CA-C	5.33	125.40	111.00
1	AA	64	A	C5-C6-N1	5.33	120.37	117.70
3	A1	491	G	N3-C4-C5	5.33	131.27	128.60
3	A1	966	G	O4'-C1'-N9	-5.33	103.93	108.20
3	A1	1458	G	C8-N9-C1'	5.33	133.93	127.00
25	BB	208	C	N1-C2-O2	5.33	122.10	118.90
25	BB	537	G	C1'-O4'-C4'	5.33	114.17	109.90
25	BB	1157	G	C4'-C3'-O3'	5.33	123.67	113.00
25	BB	1224	U	C5-C4-O4	5.33	129.10	125.90
25	BB	1582	C	N1-C2-O2	5.33	122.10	118.90
25	BB	1735	A	C5'-C4'-O4'	5.33	115.50	109.10
25	BB	1921	G	C1'-O4'-C4'	-5.33	105.63	109.90
25	BB	2235	G	C3'-C2'-C1'	-5.33	97.23	101.50
25	BB	2334	U	C5'-C4'-O4'	5.33	115.50	109.10
25	BB	2688	G	C2-N3-C4	-5.33	109.23	111.90
49	BZ	211	LYS	CB-CA-C	-5.33	99.73	110.40
1	AE	27	C	O5'-P-OP2	-5.33	100.90	105.70
1	AE	40	C	C3'-C2'-C1'	5.33	105.77	101.50
3	A1	21	G	OP1-P-OP2	-5.33	111.60	119.60
4	AB	204	ASP	C-N-CA	5.33	135.03	121.70
25	BB	369	U	O4'-C1'-N1	5.33	112.47	108.20
25	BB	1161	C	C5'-C4'-C3'	-5.33	107.47	116.00
25	BB	1240	U	C3'-C2'-C1'	5.33	105.77	101.50
25	BB	1542	U	C5-C6-N1	-5.33	120.03	122.70
25	BB	1592	C	C1'-O4'-C4'	-5.33	105.64	109.90
25	BB	2566	A	C5'-C4'-O4'	5.33	115.50	109.10
25	BB	2625	G	C4'-C3'-C2'	-5.33	97.27	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2642	G	C6-N1-C2	-5.33	121.90	125.10
25	BB	2643	G	N1-C6-O6	-5.33	116.70	119.90
25	BB	2838	G	C5-C6-O6	-5.33	125.40	128.60
33	BJ	101	ASP	OD1-CG-OD2	-5.33	113.17	123.30
36	BM	10	VAL	CA-CB-CG1	5.33	118.90	110.90
3	A1	389	A	C5-N7-C8	-5.33	101.23	103.90
3	A1	548	G	C5'-C4'-C3'	-5.33	107.47	116.00
3	A1	753	A	O4'-C1'-C2'	-5.33	100.47	105.80
3	A1	824	G	N3-C2-N2	-5.33	116.17	119.90
3	A1	1247	U	N1-C2-N3	5.33	118.10	114.90
25	BB	23	G	C4-C5-N7	5.33	112.93	110.80
25	BB	301	G	C8-N9-C4	-5.33	104.27	106.40
25	BB	565	C	C6-N1-C2	-5.33	118.17	120.30
25	BB	669	G	N9-C1'-C2'	5.33	120.93	114.00
25	BB	1008	A	C4'-C3'-C2'	-5.33	97.27	102.60
25	BB	1022	G	C8-N9-C1'	5.33	133.93	127.00
25	BB	1030	C	C6-N1-C2	-5.33	118.17	120.30
25	BB	1904	G	C6-N1-C2	-5.33	121.90	125.10
25	BB	2339	C	N1-C2-O2	5.33	122.10	118.90
31	BH	39	VAL	CA-CB-CG2	-5.33	102.91	110.90
1	AA	72	C	O4'-C1'-C2'	-5.33	100.47	105.80
2	AM	3	U	O4'-C1'-C2'	-5.33	100.47	105.80
3	A1	6	G	C4'-C3'-C2'	-5.33	97.27	102.60
3	A1	509	A	C5'-C4'-O4'	5.33	115.50	109.10
3	A1	588	G	O4'-C1'-N9	-5.33	103.94	108.20
3	A1	959	A	C3'-C2'-C1'	-5.33	97.24	101.50
3	A1	1088	G	C5'-C4'-O4'	5.33	115.49	109.10
12	AK	31	TYR	CB-CG-CD2	5.33	124.20	121.00
24	BA	52	A	N7-C8-N9	5.33	116.47	113.80
25	BB	146	A	O4'-C4'-C3'	5.33	110.36	106.10
25	BB	402	A	C5-C6-N6	5.33	127.96	123.70
25	BB	723	C	C5-C4-N4	5.33	123.93	120.20
25	BB	884	U	N3-C4-O4	5.33	123.13	119.40
25	BB	903	C	C5'-C4'-O4'	5.33	115.50	109.10
25	BB	954	G	O4'-C1'-N9	5.33	112.46	108.20
25	BB	1042	G	C4-C5-N7	-5.33	108.67	110.80
25	BB	1622	G	C4-C5-N7	-5.33	108.67	110.80
25	BB	1875	G	C8-N9-C1'	5.33	133.93	127.00
25	BB	2075	U	N3-C4-O4	-5.33	115.67	119.40
25	BB	2094	A	O4'-C1'-C2'	-5.33	100.47	105.80
25	BB	2879	A	C1'-O4'-C4'	-5.33	105.64	109.90
26	BC	39	ALA	N-CA-CB	-5.33	102.64	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
42	BS	31	ASP	N-CA-CB	-5.33	101.01	110.60
49	BZ	155	VAL	CA-CB-CG2	5.33	118.89	110.90
3	A1	644	U	C3'-C2'-C1'	5.33	105.76	101.50
3	A1	1304	G	C5-C6-O6	5.33	131.80	128.60
25	BB	389	G	C6-C5-N7	5.33	133.60	130.40
25	BB	1071	G	N3-C4-C5	-5.33	125.94	128.60
25	BB	1321	A	N3-C4-C5	-5.33	123.07	126.80
25	BB	1736	U	C5'-C4'-C3'	-5.33	107.48	116.00
25	BB	1749	A	N3-C4-N9	-5.33	123.14	127.40
25	BB	1835	G	C4-C5-N7	-5.33	108.67	110.80
25	BB	2253	G	C4'-C3'-C2'	-5.33	97.27	102.60
1	AA	21	A	C4-C5-N7	5.33	113.36	110.70
1	AA	61	C	O4'-C4'-C3'	5.33	110.36	106.10
3	A1	122	G	C5-C6-N1	5.33	114.16	111.50
3	A1	174	A	O4'-C1'-N9	5.33	112.46	108.20
3	A1	594	U	C5'-C4'-O4'	5.33	115.49	109.10
3	A1	669	G	C5-N7-C8	-5.33	101.64	104.30
3	A1	913	A	C8-N9-C4	-5.33	103.67	105.80
3	A1	1166	G	C4-C5-N7	-5.33	108.67	110.80
3	A1	1279	G	C1'-O4'-C4'	-5.33	105.64	109.90
3	A1	1432	G	C2-N3-C4	-5.33	109.24	111.90
25	BB	437	U	C2-N3-C4	-5.33	123.81	127.00
25	BB	585	G	C4'-C3'-C2'	-5.33	97.27	102.60
25	BB	632	A	N9-C4-C5	5.33	107.93	105.80
25	BB	1507	C	O4'-C4'-C3'	5.33	110.36	106.10
25	BB	1558	C	O4'-C1'-N1	5.33	112.46	108.20
25	BB	1893	C	O4'-C1'-N1	5.33	112.46	108.20
25	BB	1997	C	N1-C1'-C2'	-5.33	106.14	112.00
25	BB	2238	G	N1-C2-N3	5.33	127.09	123.90
25	BB	2240	U	N3-C4-C5	5.33	117.80	114.60
25	BB	2245	U	C5-C4-O4	-5.33	122.70	125.90
25	BB	2247	A	C4'-C3'-C2'	-5.33	97.28	102.60
25	BB	2313	C	C3'-C2'-C1'	-5.33	97.24	101.50
25	BB	2502	G	C8-N9-C4	-5.33	104.27	106.40
25	BB	2564	A	C1'-O4'-C4'	-5.33	105.64	109.90
25	BB	2622	U	C4'-C3'-O3'	5.33	123.65	113.00
25	BB	2777	G	N3-C2-N2	-5.33	116.17	119.90
27	BD	78	ARG	CD-NE-CZ	5.33	131.06	123.60
3	A1	1228	C	C6-N1-C1'	5.32	127.19	120.80
3	A1	1493	A	C6-C5-N7	5.32	136.03	132.30
24	BA	10	G	C5-N7-C8	-5.32	101.64	104.30
25	BB	277	G	N9-C4-C5	5.32	107.53	105.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	494	G	C5'-C4'-O4'	-5.32	102.71	109.10
25	BB	624	C	C5-C6-N1	5.32	123.66	121.00
25	BB	626	A	C5-C6-N1	5.32	120.36	117.70
25	BB	942	G	N1-C6-O6	-5.32	116.70	119.90
25	BB	1039	A	C6-N1-C2	-5.32	115.41	118.60
25	BB	1106	G	C2-N3-C4	5.32	114.56	111.90
25	BB	1173	U	N1-C2-O2	5.32	126.53	122.80
25	BB	1199	U	P-O3'-C3'	-5.32	113.31	119.70
25	BB	1483	G	C3'-C2'-C1'	5.32	105.76	101.50
25	BB	1538	G	O4'-C4'-C3'	5.32	110.36	106.10
25	BB	1726	C	N3-C4-C5	5.32	124.03	121.90
25	BB	1959	G	C4-C5-N7	5.32	112.93	110.80
25	BB	2016	U	C3'-C2'-C1'	-5.32	97.24	101.50
25	BB	2018	G	N3-C2-N2	-5.32	116.17	119.90
25	BB	2433	A	O3'-P-O5'	-5.32	93.89	104.00
25	BB	2699	C	C1'-O4'-C4'	5.32	114.16	109.90
25	BB	2728	U	N3-C4-O4	-5.32	115.67	119.40
1	AE	27	C	C5-C6-N1	5.32	123.66	121.00
3	A1	292	G	N7-C8-N9	5.32	115.76	113.10
3	A1	493	A	O4'-C1'-N9	5.32	112.46	108.20
3	A1	563	A	N9-C1'-C2'	5.32	120.92	114.00
3	A1	674	G	N1-C2-N3	5.32	127.09	123.90
3	A1	677	U	N1-C1'-C2'	-5.32	106.15	112.00
3	A1	1201	A	C2-N3-C4	5.32	113.26	110.60
3	A1	1227	A	O3'-P-O5'	5.32	114.11	104.00
24	BA	10	G	N3-C2-N2	-5.32	116.17	119.90
25	BB	203	A	N7-C8-N9	-5.32	111.14	113.80
25	BB	377	G	N3-C4-C5	-5.32	125.94	128.60
25	BB	1284	A	C6-N1-C2	-5.32	115.41	118.60
3	A1	387	U	C5'-C4'-C3'	-5.32	107.49	116.00
3	A1	848	C	C5-C6-N1	-5.32	118.34	121.00
3	A1	1278	G	C5-N7-C8	-5.32	101.64	104.30
3	A1	1314	C	C5-C6-N1	-5.32	118.34	121.00
25	BB	80	G	N9-C4-C5	5.32	107.53	105.40
25	BB	91	A	P-O3'-C3'	5.32	126.09	119.70
25	BB	221	A	C3'-C2'-C1'	5.32	105.76	101.50
25	BB	403	U	C4-C5-C6	-5.32	116.51	119.70
25	BB	594	U	N1-C2-N3	5.32	118.09	114.90
25	BB	1035	U	C4'-C3'-C2'	5.32	107.92	102.60
25	BB	1519	G	N7-C8-N9	5.32	115.76	113.10
25	BB	1904	G	N1-C2-N3	5.32	127.09	123.90
25	BB	1971	U	N1-C2-N3	5.32	118.09	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2176	A	O5'-P-OP2	5.32	117.08	110.70
25	BB	2200	C	P-O3'-C3'	-5.32	113.32	119.70
25	BB	2545	G	N9-C4-C5	5.32	107.53	105.40
25	BB	2694	G	C5-C6-N1	5.32	114.16	111.50
25	BB	2705	A	C8-N9-C4	-5.32	103.67	105.80
25	BB	2808	G	N3-C4-N9	-5.32	122.81	126.00
25	BB	2860	A	N1-C2-N3	-5.32	126.64	129.30
51	B2	167	ALA	C-N-CA	5.32	135.00	121.70
3	A1	365	U	C5-C6-N1	-5.32	120.04	122.70
3	A1	667	G	C4-C5-C6	-5.32	115.61	118.80
3	A1	1123	U	C1'-O4'-C4'	-5.32	105.64	109.90
3	A1	1151	A	C6-C5-N7	5.32	136.02	132.30
3	A1	1488	G	C5'-C4'-O4'	5.32	115.48	109.10
25	BB	21	A	C5'-C4'-C3'	-5.32	107.49	116.00
25	BB	370	G	C6-C5-N7	-5.32	127.21	130.40
25	BB	601	C	C4-C5-C6	5.32	120.06	117.40
25	BB	2404	U	P-O3'-C3'	5.32	126.08	119.70
25	BB	2432	A	O4'-C1'-N9	-5.32	103.94	108.20
38	BO	8	ASP	N-CA-CB	-5.32	101.03	110.60
50	B1	102	ARG	CD-NE-CZ	5.32	131.05	123.60
54	B5	102	ARG	CD-NE-CZ	5.32	131.05	123.60
3	A1	77	A	N9-C4-C5	-5.32	103.67	105.80
3	A1	78	A	C5-N7-C8	-5.32	101.24	103.90
3	A1	225	C	P-O3'-C3'	5.32	126.08	119.70
3	A1	324	G	OP2-P-O3'	5.32	116.90	105.20
3	A1	391	G	O4'-C4'-C3'	5.32	110.36	106.10
3	A1	646	G	C3'-C2'-C1'	5.32	105.75	101.50
3	A1	911	U	C3'-C2'-C1'	5.32	105.75	101.50
3	A1	960	U	N3-C4-C5	-5.32	111.41	114.60
3	A1	1013	G	C5'-C4'-O4'	5.32	115.48	109.10
3	A1	1147	C	C5-C6-N1	5.32	123.66	121.00
5	AC	62	ALA	CB-CA-C	5.32	118.08	110.10
7	AF	112	ARG	NH1-CZ-NH2	-5.32	113.55	119.40
11	AJ	18	LYS	C-N-CA	5.32	135.00	121.70
24	BA	116	G	O4'-C1'-N9	5.32	112.45	108.20
25	BB	102	U	C4'-C3'-C2'	5.32	107.92	102.60
25	BB	134	G	C8-N9-C4	-5.32	104.27	106.40
25	BB	136	G	C5'-C4'-O4'	5.32	115.48	109.10
25	BB	275	C	C2-N3-C4	-5.32	117.24	119.90
25	BB	745	G	O3'-P-O5'	5.32	114.11	104.00
25	BB	1467	U	N3-C2-O2	-5.32	118.48	122.20
25	BB	1662	U	P-O5'-C5'	5.32	129.41	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1721	G	C8-N9-C4	-5.32	104.27	106.40
25	BB	1848	A	C6-N1-C2	-5.32	115.41	118.60
25	BB	1888	G	O5'-P-OP2	-5.32	100.92	105.70
25	BB	1952	A	N1-C2-N3	5.32	131.96	129.30
25	BB	2210	U	C5'-C4'-C3'	5.32	124.51	116.00
25	BB	2290	G	C5-N7-C8	-5.32	101.64	104.30
25	BB	2400	G	C4-C5-N7	5.32	112.93	110.80
25	BB	2415	G	C5-N7-C8	-5.32	101.64	104.30
25	BB	2481	G	N7-C8-N9	-5.32	110.44	113.10
25	BB	2527	C	N1-C2-N3	5.32	122.92	119.20
25	BB	2612	C	C5'-C4'-C3'	-5.32	107.49	116.00
39	BP	60	ALA	C-N-CA	5.32	134.99	121.70
43	BT	49	ARG	NE-CZ-NH1	5.32	122.96	120.30
50	B1	114	ARG	CD-NE-CZ	5.32	131.04	123.60
1	AE	47	U	C4'-C3'-C2'	-5.32	97.28	102.60
3	A1	48	C	C5'-C4'-O4'	5.32	115.48	109.10
3	A1	60	A	N1-C6-N6	-5.32	115.41	118.60
3	A1	231	U	C5-C4-O4	5.32	129.09	125.90
3	A1	358	U	C4-C5-C6	-5.32	116.51	119.70
3	A1	543	U	C5-C4-O4	5.32	129.09	125.90
3	A1	682	G	N9-C4-C5	5.32	107.53	105.40
3	A1	755	G	C5-C6-O6	-5.32	125.41	128.60
3	A1	1038	C	C1'-O4'-C4'	5.32	114.15	109.90
5	AC	40	ALA	CB-CA-C	5.32	118.07	110.10
14	AN	35	TYR	CG-CD2-CE2	-5.32	117.05	121.30
17	AR	145	ARG	CD-NE-CZ	5.32	131.04	123.60
25	BB	140	C	C5-C4-N4	-5.32	116.48	120.20
25	BB	298	G	C6-C5-N7	5.32	133.59	130.40
25	BB	406	G	C6-N1-C2	-5.32	121.91	125.10
25	BB	428	A	C6-C5-N7	5.32	136.02	132.30
25	BB	630	G	C6-N1-C2	5.32	128.29	125.10
25	BB	1204	A	C4-C5-N7	5.32	113.36	110.70
25	BB	1603	A	N3-C4-N9	-5.32	123.15	127.40
25	BB	1650	A	C6-C5-N7	5.32	136.02	132.30
25	BB	1744	A	N7-C8-N9	5.32	116.46	113.80
25	BB	2295	C	C3'-C2'-C1'	5.32	105.75	101.50
25	BB	2783	U	C5'-C4'-C3'	-5.32	107.49	116.00
37	BN	227	VAL	CA-CB-CG1	5.32	118.87	110.90
3	A1	42	G	C4-N9-C1'	-5.31	119.59	126.50
3	A1	325	A	N3-C4-C5	5.31	130.52	126.80
3	A1	908	A	C4'-C3'-C2'	-5.31	97.29	102.60
3	A1	926	G	N9-C1'-C2'	5.31	120.91	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1394	A	N7-C8-N9	5.31	116.46	113.80
3	A1	1438	G	C4-N9-C1'	-5.31	119.59	126.50
25	BB	1676	A	C2-N3-C4	5.31	113.26	110.60
25	BB	1743	G	N1-C2-N3	5.31	127.09	123.90
25	BB	2281	A	C5-N7-C8	5.31	106.56	103.90
25	BB	2289	G	C8-N9-C4	-5.31	104.27	106.40
25	BB	2899	A	O4'-C4'-C3'	5.31	110.35	106.10
32	BI	102	ARG	NH1-CZ-NH2	-5.31	113.56	119.40
3	A1	1127	G	C5-C6-N1	5.31	114.16	111.50
3	A1	1281	C	O3'-P-O5'	-5.31	93.91	104.00
3	A1	1458	G	C5-N7-C8	-5.31	101.64	104.30
24	BA	76	G	N9-C1'-C2'	-5.31	106.16	112.00
25	BB	565	C	O3'-P-O5'	5.31	114.09	104.00
25	BB	584	C	C5'-C4'-O4'	5.31	115.47	109.10
25	BB	649	G	N3-C4-N9	5.31	129.19	126.00
25	BB	739	A	O4'-C1'-C2'	-5.31	100.49	105.80
25	BB	785	G	C5'-C4'-O4'	5.31	115.47	109.10
25	BB	1303	G	C1'-O4'-C4'	5.31	114.15	109.90
25	BB	1566	A	N3-C4-N9	-5.31	123.15	127.40
25	BB	1716	U	N1-C2-N3	5.31	118.09	114.90
43	BT	36	LYS	O-C-N	-5.31	114.20	122.70
25	BB	501	A	C5-C6-N1	5.31	120.36	117.70
25	BB	996	A	C1'-O4'-C4'	5.31	114.15	109.90
25	BB	1977	A	N9-C4-C5	5.31	107.92	105.80
25	BB	2096	C	O4'-C1'-N1	5.31	112.45	108.20
25	BB	2878	U	O4'-C1'-C2'	5.31	112.38	107.60
3	A1	203	G	C2'-C3'-O3'	5.31	122.19	113.70
3	A1	442	G	C1'-O4'-C4'	-5.31	105.65	109.90
3	A1	566	G	N7-C8-N9	5.31	115.75	113.10
3	A1	1169	A	C4-C5-N7	-5.31	108.05	110.70
3	A1	1400	C	N1-C2-N3	5.31	122.92	119.20
11	AJ	36	PHE	O-C-N	-5.31	114.20	122.70
17	AR	106	PHE	CB-CG-CD2	-5.31	117.08	120.80
25	BB	77	G	C5-N7-C8	5.31	106.95	104.30
25	BB	212	G	C8-N9-C1'	5.31	133.90	127.00
25	BB	228	C	N1-C2-N3	-5.31	115.48	119.20
25	BB	643	A	C5-N7-C8	5.31	106.56	103.90
25	BB	685	A	C5-C6-N6	5.31	127.95	123.70
25	BB	872	U	N3-C4-O4	5.31	123.12	119.40
25	BB	1551	A	O4'-C1'-C2'	5.31	112.38	107.60
25	BB	1618	A	C8-N9-C4	5.31	107.92	105.80
25	BB	1847	A	C5-C6-N6	5.31	127.95	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1854	A	C4-C5-N7	5.31	113.35	110.70
25	BB	1878	G	C6-C5-N7	5.31	133.59	130.40
25	BB	1960	A	OP1-P-OP2	-5.31	111.64	119.60
25	BB	2137	U	N1-C2-N3	5.31	118.09	114.90
25	BB	2608	G	C2-N3-C4	-5.31	109.25	111.90
25	BB	2665	A	O4'-C1'-N9	-5.31	103.95	108.20
25	BB	2743	U	C5-C4-O4	5.31	129.09	125.90
25	BB	2810	A	N1-C2-N3	-5.31	126.64	129.30
1	AP	19	G	C2-N3-C4	-5.31	109.25	111.90
3	A1	59	A	C2-N3-C4	5.31	113.25	110.60
3	A1	288	A	C1'-O4'-C4'	-5.31	105.65	109.90
3	A1	304	U	C5'-C4'-C3'	-5.31	107.51	116.00
3	A1	559	A	C6-N1-C2	5.31	121.78	118.60
3	A1	781	A	C6-C5-N7	5.31	136.02	132.30
3	A1	927	G	N3-C4-C5	-5.31	125.95	128.60
3	A1	1050	G	C6-N1-C2	-5.31	121.92	125.10
3	A1	1160	G	C6-N1-C2	-5.31	121.92	125.10
3	A1	1497	G	O5'-P-OP2	-5.31	100.92	105.70
24	BA	86	G	C5-C6-O6	5.31	131.78	128.60
25	BB	42	A	C5-C6-N6	5.31	127.95	123.70
25	BB	246	C	C5'-C4'-C3'	-5.31	107.51	116.00
25	BB	304	U	C2-N3-C4	-5.31	123.82	127.00
25	BB	466	A	N1-C2-N3	-5.31	126.65	129.30
25	BB	632	A	C4'-C3'-C2'	-5.31	97.29	102.60
25	BB	915	C	N3-C4-N4	-5.31	114.28	118.00
25	BB	1175	A	C1'-O4'-C4'	-5.31	105.66	109.90
25	BB	1283	G	C4-C5-N7	5.31	112.92	110.80
25	BB	1388	G	C6-C5-N7	5.31	133.58	130.40
25	BB	1993	U	C4'-C3'-C2'	-5.31	97.29	102.60
25	BB	2599	G	P-O5'-C5'	5.31	129.39	120.90
37	BN	61	TYR	CG-CD1-CE1	-5.31	117.05	121.30
1	AP	9	A	O4'-C1'-C2'	5.31	112.38	107.60
3	A1	424	G	N3-C4-C5	-5.31	125.95	128.60
3	A1	1139	G	C4-N9-C1'	-5.31	119.60	126.50
3	A1	1275	A	C6-C5-N7	5.31	136.01	132.30
25	BB	771	G	C8-N9-C4	-5.31	104.28	106.40
25	BB	790	U	C1'-O4'-C4'	-5.31	105.66	109.90
25	BB	832	U	C5-C6-N1	-5.31	120.05	122.70
25	BB	963	U	C4-C5-C6	5.31	122.88	119.70
25	BB	1521	G	C5-N7-C8	-5.31	101.65	104.30
25	BB	2546	U	C2'-C3'-O3'	5.31	122.19	113.70
25	BB	2696	U	N1-C2-N3	-5.31	111.72	114.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2809	A	O4'-C1'-C2'	5.31	112.38	107.60
48	BY	41	ALA	N-CA-C	5.31	125.33	111.00
1	AP	16	U	N1-C2-O2	-5.30	119.09	122.80
1	AE	32	C	C4-C5-C6	5.30	120.05	117.40
3	A1	299	G	C6-C5-N7	5.30	133.58	130.40
3	A1	879	C	C6-N1-C2	-5.30	118.18	120.30
3	A1	1131	G	N1-C6-O6	-5.30	116.72	119.90
3	A1	1173	U	C2-N3-C4	-5.30	123.82	127.00
3	A1	1267	C	C3'-C2'-C1'	5.30	105.74	101.50
22	AW	105	ARG	CD-NE-CZ	5.30	131.03	123.60
25	BB	358	U	N1-C2-N3	5.30	118.08	114.90
25	BB	1118	C	N1-C2-N3	5.30	122.91	119.20
25	BB	1411	U	P-O3'-C3'	5.30	126.06	119.70
25	BB	1500	G	C2-N3-C4	5.30	114.55	111.90
25	BB	1589	U	N3-C4-O4	5.30	123.11	119.40
25	BB	2323	G	N3-C4-C5	-5.30	125.95	128.60
25	BB	2391	G	C1'-O4'-C4'	-5.30	105.66	109.90
25	BB	2399	G	N3-C4-N9	5.30	129.18	126.00
1	AA	10	G	C5'-C4'-O4'	5.30	115.46	109.10
3	A1	607	A	C2-N3-C4	5.30	113.25	110.60
3	A1	1193	G	C6-N1-C2	-5.30	121.92	125.10
24	BA	117	G	N1-C6-O6	-5.30	116.72	119.90
25	BB	102	U	N1-C1'-C2'	5.30	120.89	114.00
25	BB	326	G	C6-N1-C2	-5.30	121.92	125.10
25	BB	527	C	C5'-C4'-C3'	-5.30	107.52	116.00
25	BB	1280	G	O4'-C4'-C3'	5.30	110.34	106.10
25	BB	1362	C	C2-N3-C4	-5.30	117.25	119.90
25	BB	1523	U	C4-C5-C6	5.30	122.88	119.70
25	BB	2046	G	C6-N1-C2	-5.30	121.92	125.10
25	BB	2534	A	N3-C4-N9	-5.30	123.16	127.40
25	BB	2537	U	O4'-C1'-C2'	-5.30	100.50	105.80
25	BB	2757	A	C5-C6-N6	5.30	127.94	123.70
25	BB	2763	G	C5'-C4'-O4'	5.30	115.46	109.10
1	AP	62	A	C4-C5-C6	-5.30	114.35	117.00
3	A1	80	A	C5-N7-C8	-5.30	101.25	103.90
3	A1	565	U	N3-C4-C5	-5.30	111.42	114.60
3	A1	611	C	N1-C2-O2	5.30	122.08	118.90
3	A1	708	C	C2-N3-C4	-5.30	117.25	119.90
25	BB	104	A	N9-C1'-C2'	5.30	120.89	114.00
25	BB	161	A	C4'-C3'-C2'	-5.30	97.30	102.60
25	BB	317	G	C5-C6-O6	-5.30	125.42	128.60
25	BB	690	G	N3-C4-C5	-5.30	125.95	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	809	G	C6-N1-C2	-5.30	121.92	125.10
25	BB	923	G	O5'-C5'-C4'	5.30	121.77	111.70
25	BB	1165	A	C4-C5-N7	-5.30	108.05	110.70
25	BB	1473	G	C5'-C4'-O4'	5.30	115.46	109.10
25	BB	1853	A	C8-N9-C4	5.30	107.92	105.80
25	BB	2117	A	O4'-C4'-C3'	-5.30	98.70	104.00
49	BZ	32	ILE	CA-CB-CG1	5.30	121.07	111.00
3	A1	94	G	C6-C5-N7	5.30	133.58	130.40
3	A1	161	A	N9-C1'-C2'	-5.30	106.17	112.00
3	A1	350	G	C2-N3-C4	5.30	114.55	111.90
3	A1	361	G	C6-N1-C2	-5.30	121.92	125.10
3	A1	442	G	N3-C4-N9	5.30	129.18	126.00
3	A1	859	G	C4-N9-C1'	-5.30	119.61	126.50
3	A1	1148	U	C6-N1-C2	-5.30	117.82	121.00
3	A1	1419	G	C5-N7-C8	-5.30	101.65	104.30
22	AW	16	ALA	CB-CA-C	5.30	118.05	110.10
24	BA	18	G	C1'-O4'-C4'	-5.30	105.66	109.90
24	BA	66	A	N7-C8-N9	5.30	116.45	113.80
25	BB	690	G	N7-C8-N9	5.30	115.75	113.10
25	BB	889	C	N3-C4-C5	-5.30	119.78	121.90
25	BB	1077	A	N9-C4-C5	-5.30	103.68	105.80
25	BB	1228	G	C8-N9-C4	-5.30	104.28	106.40
25	BB	1403	A	C4-C5-C6	-5.30	114.35	117.00
25	BB	1552	A	C5-N7-C8	-5.30	101.25	103.90
25	BB	1911	U	C5-C6-N1	-5.30	120.05	122.70
25	BB	2355	G	N1-C2-N2	-5.30	111.43	116.20
25	BB	2403	C	N1-C2-N3	5.30	122.91	119.20
25	BB	2617	U	C4'-C3'-C2'	-5.30	97.30	102.60
25	BB	2792	A	C8-N9-C4	-5.30	103.68	105.80
33	BJ	42	GLY	O-C-N	-5.30	114.22	122.70
3	A1	242	G	N3-C4-N9	-5.30	122.82	126.00
25	BB	83	A	O4'-C1'-C2'	-5.30	100.50	105.80
25	BB	483	A	C4-C5-C6	-5.30	114.35	117.00
25	BB	863	A	C5-N7-C8	-5.30	101.25	103.90
25	BB	1604	C	O4'-C4'-C3'	5.30	110.34	106.10
25	BB	1951	U	O3'-P-O5'	5.30	114.07	104.00
1	AA	15	G	N3-C4-C5	-5.30	125.95	128.60
2	AM	12	U	N1-C2-N3	5.30	118.08	114.90
3	A1	499	A	C5-C6-N6	-5.30	119.46	123.70
3	A1	508	U	OP1-P-O3'	5.30	116.85	105.20
3	A1	719	C	C4'-C3'-C2'	-5.30	97.30	102.60
3	A1	941	G	O4'-C1'-N9	5.30	112.44	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1297	G	N7-C8-N9	5.30	115.75	113.10
3	A1	1365	G	P-O3'-C3'	5.30	126.06	119.70
17	AR	204	SER	O-C-N	-5.30	114.22	122.70
25	BB	146	A	O5'-C5'-C4'	5.30	121.76	111.70
25	BB	394	C	N1-C2-O2	5.30	122.08	118.90
25	BB	580	U	C6-N1-C2	-5.30	117.82	121.00
25	BB	638	G	C6-N1-C2	-5.30	121.92	125.10
25	BB	1109	C	C5-C4-N4	-5.30	116.49	120.20
25	BB	1261	C	C4-C5-C6	-5.30	114.75	117.40
25	BB	1333	G	N7-C8-N9	-5.30	110.45	113.10
25	BB	1607	C	C5'-C4'-O4'	-5.30	102.74	109.10
25	BB	2563	U	C4-C5-C6	5.30	122.88	119.70
25	BB	2639	A	C5'-C4'-C3'	-5.30	107.53	116.00
25	BB	2708	G	N3-C4-C5	-5.30	125.95	128.60
30	BG	71	ARG	CD-NE-CZ	5.30	131.02	123.60
3	A1	418	C	N3-C2-O2	-5.29	118.19	121.90
3	A1	542	G	C5'-C4'-O4'	5.29	115.45	109.10
3	A1	648	A	C5-N7-C8	-5.29	101.25	103.90
3	A1	1412	C	C4'-C3'-C2'	5.29	107.89	102.60
24	BA	91	C	C5-C4-N4	5.29	123.91	120.20
25	BB	25	U	C3'-C2'-C1'	5.29	105.74	101.50
25	BB	176	A	C1'-O4'-C4'	5.29	114.14	109.90
25	BB	624	C	C6-N1-C2	-5.29	118.18	120.30
25	BB	883	G	N7-C8-N9	5.29	115.75	113.10
25	BB	1146	C	C5-C6-N1	-5.29	118.35	121.00
25	BB	1459	G	C3'-C2'-C1'	5.29	105.74	101.50
25	BB	1993	U	C4-C5-C6	5.29	122.88	119.70
25	BB	2157	G	C2-N3-C4	5.29	114.55	111.90
25	BB	2685	G	C8-N9-C4	-5.29	104.28	106.40
25	BB	2786	U	C5-C6-N1	-5.29	120.05	122.70
50	B1	22	ASP	CB-CG-OD1	-5.29	113.53	118.30
3	A1	183	C	O4'-C1'-N1	5.29	112.43	108.20
3	A1	190	A	N9-C1'-C2'	-5.29	106.18	112.00
3	A1	754	C	C4-C5-C6	-5.29	114.75	117.40
3	A1	1078	U	C5-C4-O4	5.29	129.08	125.90
3	A1	1292	G	C4-C5-C6	-5.29	115.62	118.80
15	AO	202	PHE	CG-CD1-CE1	5.29	126.62	120.80
24	BA	99	A	C4-C5-N7	5.29	113.35	110.70
25	BB	167	A	O4'-C1'-N9	-5.29	103.97	108.20
25	BB	369	U	N3-C4-O4	-5.29	115.69	119.40
25	BB	559	G	OP2-P-O3'	5.29	116.85	105.20
25	BB	649	G	N7-C8-N9	-5.29	110.45	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	828	U	C1'-O4'-C4'	-5.29	105.67	109.90
25	BB	1429	G	C5'-C4'-C3'	-5.29	107.53	116.00
25	BB	1684	G	C2-N3-C4	5.29	114.55	111.90
25	BB	2024	G	N7-C8-N9	5.29	115.75	113.10
25	BB	2127	G	O4'-C1'-N9	5.29	112.43	108.20
25	BB	2470	G	C4-C5-N7	-5.29	108.68	110.80
25	BB	2588	G	P-O3'-C3'	5.29	126.05	119.70
25	BB	2747	G	C2'-C3'-O3'	5.29	122.17	113.70
55	B6	89	PHE	CG-CD1-CE1	-5.29	114.98	120.80
1	AA	3	G	C1'-O4'-C4'	-5.29	105.67	109.90
1	AA	50	U	N1-C2-O2	5.29	126.50	122.80
1	AA	70	C	N1-C1'-C2'	-5.29	106.18	112.00
3	A1	104	G	N3-C4-N9	5.29	129.18	126.00
3	A1	425	G	C5-N7-C8	-5.29	101.65	104.30
3	A1	936	C	O4'-C4'-C3'	5.29	110.33	106.10
3	A1	980	C	C5-C6-N1	-5.29	118.35	121.00
3	A1	1089	G	C4-C5-C6	5.29	121.97	118.80
3	A1	1102	A	N3-C4-N9	-5.29	123.17	127.40
3	A1	1143	G	C5-C6-O6	5.29	131.78	128.60
3	A1	1376	U	O4'-C1'-C2'	-5.29	100.51	105.80
24	BA	7	G	N3-C4-C5	-5.29	125.95	128.60
24	BA	108	A	C4-C5-C6	-5.29	114.35	117.00
25	BB	158	U	C4-C5-C6	5.29	122.88	119.70
25	BB	221	A	C4-C5-N7	-5.29	108.05	110.70
25	BB	577	G	OP1-P-O3'	5.29	116.84	105.20
25	BB	1576	U	N3-C4-C5	-5.29	111.42	114.60
25	BB	1607	C	N1-C2-O2	5.29	122.07	118.90
25	BB	1803	A	N1-C2-N3	-5.29	126.65	129.30
25	BB	1841	U	C4'-C3'-C2'	-5.29	97.31	102.60
25	BB	1987	A	O4'-C4'-C3'	5.29	110.33	106.10
25	BB	2327	A	C2-N3-C4	5.29	113.25	110.60
25	BB	2366	A	O4'-C4'-C3'	5.29	110.33	106.10
25	BB	2587	A	N1-C2-N3	5.29	131.95	129.30
25	BB	2616	C	C4-C5-C6	5.29	120.05	117.40
50	B1	180	LEU	CB-CG-CD2	5.29	120.00	111.00
55	B6	137	PRO	N-CA-CB	5.29	109.65	103.30
1	AA	58	A	C4'-C3'-C2'	-5.29	97.31	102.60
25	BB	35	G	O4'-C1'-N9	-5.29	103.97	108.20
25	BB	506	G	N7-C8-N9	5.29	115.75	113.10
25	BB	1309	G	N1-C6-O6	-5.29	116.73	119.90
25	BB	1317	G	N3-C4-N9	-5.29	122.83	126.00
25	BB	2368	C	C2-N3-C4	5.29	122.55	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2382	G	N1-C6-O6	-5.29	116.73	119.90
35	BL	53	SER	N-CA-CB	-5.29	102.56	110.50
52	B3	33	THR	CA-CB-CG2	5.29	119.81	112.40
1	AA	55	U	O4'-C1'-C2'	5.29	112.36	107.60
1	AP	19	G	P-O3'-C3'	5.29	126.05	119.70
3	A1	206	C	N1-C1'-C2'	-5.29	106.18	112.00
3	A1	281	G	O4'-C4'-C3'	5.29	110.33	106.10
3	A1	332	G	C8-N9-C4	-5.29	104.28	106.40
3	A1	558	G	P-O5'-C5'	5.29	129.36	120.90
3	A1	874	G	N3-C4-N9	5.29	129.17	126.00
3	A1	1121	U	C3'-C2'-C1'	5.29	105.73	101.50
3	A1	1171	A	OP1-P-OP2	-5.29	111.67	119.60
3	A1	1367	C	O4'-C1'-C2'	5.29	112.36	107.60
3	A1	1373	G	N3-C4-C5	-5.29	125.96	128.60
24	BA	3	C	O4'-C1'-C2'	5.29	112.36	107.60
24	BA	86	G	C5-N7-C8	5.29	106.94	104.30
25	BB	1284	A	N9-C1'-C2'	-5.29	106.18	112.00
25	BB	1330	C	O5'-P-OP2	-5.29	100.94	105.70
25	BB	1545	A	C5-C6-N6	5.29	127.93	123.70
25	BB	1606	C	N3-C4-N4	-5.29	114.30	118.00
25	BB	1918	A	C6-C5-N7	5.29	136.00	132.30
25	BB	2047	C	C5-C4-N4	5.29	123.90	120.20
25	BB	2158	A	N3-C4-N9	5.29	131.63	127.40
25	BB	2199	A	C2-N3-C4	5.29	113.24	110.60
25	BB	2531	A	C8-N9-C4	5.29	107.92	105.80
31	BH	10	ARG	NH1-CZ-NH2	-5.29	113.58	119.40
38	BO	21	ARG	CA-CB-CG	5.29	125.04	113.40
1	AP	75	C	N1-C2-O2	5.29	122.07	118.90
3	A1	856	C	N3-C4-N4	-5.29	114.30	118.00
25	BB	398	C	C5'-C4'-C3'	5.29	124.46	116.00
25	BB	464	U	O4'-C4'-C3'	5.29	110.33	106.10
25	BB	1630	A	C4'-C3'-C2'	-5.29	97.31	102.60
25	BB	2119	A	P-O3'-C3'	5.29	126.04	119.70
25	BB	2658	C	C5'-C4'-O4'	5.29	115.44	109.10
25	BB	2812	G	C5'-C4'-O4'	5.29	115.44	109.10
54	B5	64	ARG	CA-CB-CG	5.29	125.03	113.40
3	A1	103	U	C2-N3-C4	-5.29	123.83	127.00
3	A1	253	A	C4-C5-C6	-5.29	114.36	117.00
3	A1	439	U	C2-N3-C4	-5.29	123.83	127.00
3	A1	507	C	OP2-P-O3'	5.29	116.83	105.20
3	A1	742	G	N3-C4-C5	-5.29	125.96	128.60
3	A1	959	A	C6-C5-N7	5.29	136.00	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1150	A	O4'-C1'-N9	5.29	112.43	108.20
5	AC	71	ASP	CB-CG-OD2	-5.29	113.54	118.30
12	AK	62	ARG	NE-CZ-NH1	5.29	122.94	120.30
25	BB	381	G	C5-C6-N1	5.29	114.14	111.50
25	BB	1042	G	C4'-C3'-C2'	-5.29	97.31	102.60
25	BB	1042	G	C6-C5-N7	5.29	133.57	130.40
25	BB	1142	A	C6-C5-N7	5.29	136.00	132.30
25	BB	1470	A	C2-N3-C4	5.29	113.24	110.60
25	BB	1730	C	C1'-O4'-C4'	-5.29	105.67	109.90
25	BB	1740	G	C3'-C2'-C1'	5.29	105.73	101.50
25	BB	1862	G	C5'-C4'-C3'	-5.29	107.54	116.00
25	BB	1930	G	C5'-C4'-O4'	5.29	115.44	109.10
25	BB	2016	U	N3-C4-O4	-5.29	115.70	119.40
25	BB	2260	C	O4'-C4'-C3'	5.29	110.33	106.10
2	AM	12	U	C4-C5-C6	5.28	122.87	119.70
3	A1	157	U	N1-C2-N3	5.28	118.07	114.90
3	A1	247	G	N1-C2-N2	-5.28	111.44	116.20
3	A1	282	A	C5'-C4'-O4'	5.28	115.44	109.10
3	A1	630	A	C4'-C3'-C2'	-5.28	97.32	102.60
3	A1	1062	U	O4'-C1'-N1	5.28	112.43	108.20
3	A1	1209	C	N1-C2-O2	5.28	122.07	118.90
3	A1	1492	A	C8-N9-C4	-5.28	103.69	105.80
25	BB	402	A	C4-C5-C6	-5.28	114.36	117.00
25	BB	502	A	OP2-P-O3'	5.28	116.82	105.20
25	BB	783	A	C5'-C4'-O4'	-5.28	102.76	109.10
25	BB	882	G	C8-N9-C4	-5.28	104.29	106.40
25	BB	1034	G	P-O3'-C3'	5.28	126.04	119.70
25	BB	1746	A	C5'-C4'-C3'	-5.28	107.55	116.00
25	BB	1850	G	C5-C6-O6	-5.28	125.43	128.60
25	BB	1916	A	C6-C5-N7	5.28	136.00	132.30
25	BB	1946	U	C2-N3-C4	-5.28	123.83	127.00
25	BB	2080	A	C6-C5-N7	5.28	136.00	132.30
25	BB	2125	G	C6-C5-N7	5.28	133.57	130.40
25	BB	2173	A	C6-N1-C2	5.28	121.77	118.60
25	BB	2209	G	C1'-O4'-C4'	-5.28	105.67	109.90
25	BB	2423	U	O5'-P-OP2	-5.28	100.94	105.70
38	BO	85	ARG	CD-NE-CZ	5.28	131.00	123.60
54	B5	113	ALA	O-C-N	-5.28	114.25	122.70
25	BB	627	A	C5-C6-N6	5.28	127.93	123.70
25	BB	1302	A	C4'-C3'-C2'	-5.28	97.32	102.60
25	BB	2331	G	C5-N7-C8	-5.28	101.66	104.30
25	BB	2826	A	C4-C5-C6	-5.28	114.36	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
30	BG	94	TYR	CD1-CG-CD2	5.28	123.71	117.90
1	AE	11	C	N1-C1'-C2'	-5.28	106.19	112.00
3	A1	50	A	O5'-C5'-C4'	5.28	121.73	111.70
3	A1	235	C	N1-C2-N3	5.28	122.90	119.20
3	A1	380	G	N1-C2-N2	-5.28	111.45	116.20
3	A1	727	G	O5'-C5'-C4'	-5.28	101.67	111.70
3	A1	1369	C	C5'-C4'-O4'	5.28	115.44	109.10
11	AJ	68	LYS	CD-CE-NZ	-5.28	99.56	111.70
24	BA	83	G	C5-C6-N1	5.28	114.14	111.50
25	BB	61	C	C2-N3-C4	-5.28	117.26	119.90
25	BB	139	U	N3-C4-O4	5.28	123.10	119.40
25	BB	447	A	C4-C5-C6	-5.28	114.36	117.00
25	BB	1179	G	N3-C4-C5	-5.28	125.96	128.60
25	BB	1236	G	C4'-C3'-C2'	5.28	107.88	102.60
25	BB	1506	U	O3'-P-O5'	-5.28	93.97	104.00
25	BB	1754	A	C6-C5-N7	5.28	136.00	132.30
25	BB	1754	A	C8-N9-C4	-5.28	103.69	105.80
25	BB	2172	U	C2-N3-C4	-5.28	123.83	127.00
3	A1	608	A	P-O3'-C3'	5.28	126.03	119.70
18	AS	23	THR	CA-CB-CG2	-5.28	105.01	112.40
24	BA	3	C	N1-C2-O2	5.28	122.07	118.90
24	BA	35	C	C6-N1-C2	-5.28	118.19	120.30
24	BA	104	A	O4'-C4'-C3'	5.28	110.32	106.10
24	BA	118	C	N1-C2-N3	5.28	122.89	119.20
25	BB	182	A	O3'-P-O5'	-5.28	93.97	104.00
25	BB	1018	U	C5'-C4'-O4'	5.28	115.44	109.10
25	BB	2461	A	C5'-C4'-O4'	5.28	115.44	109.10
3	A1	290	C	O4'-C1'-N1	5.28	112.42	108.20
3	A1	844	G	N3-C4-C5	-5.28	125.96	128.60
3	A1	1330	U	P-O3'-C3'	5.28	126.03	119.70
25	BB	168	G	P-O5'-C5'	5.28	129.34	120.90
25	BB	224	U	N3-C4-O4	-5.28	115.71	119.40
25	BB	652	U	C2-N1-C1'	5.28	124.03	117.70
25	BB	1001	A	O3'-P-O5'	5.28	114.03	104.00
25	BB	1299	G	P-O3'-C3'	5.28	126.03	119.70
25	BB	1509	A	O3'-P-O5'	5.28	114.03	104.00
25	BB	2025	C	C5-C4-N4	5.28	123.89	120.20
25	BB	2066	C	C6-N1-C2	-5.28	118.19	120.30
25	BB	2589	A	C4-C5-N7	-5.28	108.06	110.70
1	AE	5	A	O4'-C1'-N9	5.28	112.42	108.20
1	AE	60	C	O4'-C4'-C3'	5.28	110.32	106.10
3	A1	27	G	N1-C2-N2	-5.28	111.45	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	91	U	N3-C2-O2	-5.28	118.51	122.20
3	A1	321	A	C5'-C4'-C3'	-5.28	107.56	116.00
3	A1	323	U	C5-C6-N1	-5.28	120.06	122.70
3	A1	629	A	C5'-C4'-C3'	-5.28	107.56	116.00
3	A1	671	G	C5-C6-O6	-5.28	125.44	128.60
3	A1	697	U	O5'-P-OP1	5.28	117.03	110.70
3	A1	1417	G	N3-C4-C5	-5.28	125.96	128.60
3	A1	1480	A	C2-N3-C4	5.28	113.24	110.60
9	AH	21	THR	CA-CB-CG2	5.28	119.79	112.40
25	BB	163	C	N3-C4-N4	5.28	121.69	118.00
25	BB	299	A	C6-N1-C2	-5.28	115.44	118.60
25	BB	307	G	C6-N1-C2	-5.28	121.94	125.10
25	BB	585	G	O4'-C1'-C2'	5.28	112.35	107.60
25	BB	643	A	N9-C4-C5	5.28	107.91	105.80
25	BB	871	U	O5'-C5'-C4'	-5.28	101.68	111.70
25	BB	985	C	C6-N1-C2	5.28	122.41	120.30
25	BB	1271	G	C4-C5-N7	5.28	112.91	110.80
25	BB	1502	A	C8-N9-C4	5.28	107.91	105.80
25	BB	1662	U	N1-C2-O2	5.28	126.49	122.80
25	BB	1928	A	C8-N9-C4	-5.28	103.69	105.80
25	BB	1966	A	N9-C1'-C2'	5.28	120.86	114.00
25	BB	2446	G	N3-C2-N2	-5.28	116.21	119.90
25	BB	2684	U	C2'-C3'-O3'	5.28	122.14	113.70
37	BN	21	PRO	N-CA-C	5.28	125.81	112.10
3	A1	355	C	C2'-C3'-O3'	5.27	122.14	113.70
3	A1	623	C	C2-N3-C4	-5.27	117.26	119.90
3	A1	653	U	C6-N1-C2	5.27	124.16	121.00
3	A1	838	G	O3'-P-O5'	5.27	114.02	104.00
3	A1	1106	G	C8-N9-C4	-5.27	104.29	106.40
7	AF	28	ARG	NH1-CZ-NH2	-5.27	113.60	119.40
25	BB	399	U	O4'-C1'-C2'	5.27	112.35	107.60
25	BB	1991	U	N3-C4-C5	5.27	117.77	114.60
25	BB	2079	U	C3'-C2'-C1'	-5.27	97.28	101.50
25	BB	2545	G	N1-C2-N3	5.27	127.06	123.90
3	A1	80	A	O4'-C1'-C2'	5.27	112.34	107.60
3	A1	141	G	O5'-P-OP2	5.27	117.03	110.70
3	A1	379	C	N3-C4-N4	-5.27	114.31	118.00
3	A1	406	G	N9-C4-C5	5.27	107.51	105.40
3	A1	928	G	C5-C6-N1	5.27	114.14	111.50
3	A1	1131	G	N1-C2-N3	5.27	127.06	123.90
3	A1	1298	U	C1'-O4'-C4'	-5.27	105.68	109.90
3	A1	1416	G	N1-C6-O6	-5.27	116.74	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1466	C	O4'-C4'-C3'	5.27	110.32	106.10
11	AJ	16	MET	CB-CA-C	-5.27	99.85	110.40
24	BA	69	G	C5-N7-C8	-5.27	101.66	104.30
25	BB	158	U	C1'-O4'-C4'	5.27	114.12	109.90
25	BB	860	U	N1-C2-N3	5.27	118.06	114.90
25	BB	1193	G	C2-N3-C4	5.27	114.54	111.90
25	BB	1288	G	N9-C4-C5	5.27	107.51	105.40
25	BB	1328	A	C4'-C3'-C2'	-5.27	97.33	102.60
25	BB	1492	G	N9-C1'-C2'	-5.27	106.20	112.00
25	BB	1561	C	C4-C5-C6	-5.27	114.76	117.40
25	BB	1751	U	C2-N3-C4	5.27	130.16	127.00
25	BB	1800	C	N1-C2-N3	5.27	122.89	119.20
25	BB	1821	A	C5'-C4'-O4'	5.27	115.43	109.10
25	BB	1926	U	N1-C2-N3	5.27	118.06	114.90
25	BB	2233	U	C2-N3-C4	-5.27	123.84	127.00
25	BB	2363	G	C5-N7-C8	5.27	106.94	104.30
25	BB	2689	U	C3'-C2'-C1'	5.27	105.72	101.50
25	BB	2875	C	N1-C2-N3	5.27	122.89	119.20
1	AE	70	C	C1'-O4'-C4'	-5.27	105.68	109.90
3	A1	428	G	C5-C6-O6	5.27	131.76	128.60
3	A1	462	G	C8-N9-C4	-5.27	104.29	106.40
3	A1	597	G	O4'-C1'-C2'	-5.27	100.53	105.80
3	A1	874	G	N3-C4-C5	-5.27	125.96	128.60
6	AD	113	ARG	NE-CZ-NH1	5.27	122.94	120.30
25	BB	1709	U	C5-C4-O4	5.27	129.06	125.90
25	BB	2186	G	C5'-C4'-C3'	-5.27	107.57	116.00
25	BB	2610	C	N1-C1'-C2'	5.27	120.85	114.00
25	BB	2830	C	C1'-O4'-C4'	-5.27	105.68	109.90
3	A1	25	C	C4'-C3'-O3'	5.27	123.54	113.00
3	A1	72	A	C5-N7-C8	-5.27	101.27	103.90
3	A1	691	G	N3-C4-C5	5.27	131.24	128.60
3	A1	694	A	C5-C6-N6	5.27	127.92	123.70
3	A1	921	U	O5'-P-OP1	-5.27	100.96	105.70
3	A1	993	G	C6-N1-C2	5.27	128.26	125.10
3	A1	1040	U	O5'-P-OP1	-5.27	100.96	105.70
3	A1	1157	A	N3-C4-C5	-5.27	123.11	126.80
3	A1	1394	A	C5-N7-C8	-5.27	101.27	103.90
14	AN	57	VAL	CA-CB-CG1	5.27	118.81	110.90
21	AV	41	GLU	CB-CA-C	5.27	120.94	110.40
25	BB	118	A	C6-N1-C2	5.27	121.76	118.60
25	BB	147	C	O4'-C1'-C2'	-5.27	100.53	105.80
25	BB	152	A	O4'-C1'-C2'	5.27	112.34	107.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	403	U	N3-C2-O2	-5.27	118.51	122.20
25	BB	846	U	C5-C6-N1	-5.27	120.07	122.70
25	BB	1031	G	C5'-C4'-C3'	-5.27	107.57	116.00
25	BB	1245	G	C1'-O4'-C4'	-5.27	105.68	109.90
25	BB	1246	A	O4'-C1'-N9	5.27	112.42	108.20
25	BB	1306	C	C5-C6-N1	-5.27	118.36	121.00
25	BB	1352	U	C2-N3-C4	-5.27	123.84	127.00
25	BB	1367	A	O3'-P-O5'	5.27	114.01	104.00
25	BB	1482	G	N1-C6-O6	-5.27	116.74	119.90
25	BB	1611	C	C5-C4-N4	-5.27	116.51	120.20
25	BB	1715	G	N3-C4-C5	-5.27	125.97	128.60
25	BB	2174	C	N1-C1'-C2'	-5.27	106.20	112.00
25	BB	2276	G	N9-C4-C5	5.27	107.51	105.40
25	BB	2476	A	N7-C8-N9	-5.27	111.17	113.80
25	BB	2648	G	C4-C5-C6	-5.27	115.64	118.80
25	BB	2774	C	C6-N1-C2	-5.27	118.19	120.30
3	A1	60	A	N9-C4-C5	-5.27	103.69	105.80
3	A1	453	G	N7-C8-N9	5.27	115.73	113.10
3	A1	555	U	C4'-C3'-C2'	-5.27	97.33	102.60
3	A1	759	A	C6-C5-N7	5.27	135.99	132.30
3	A1	1008	U	N3-C4-O4	5.27	123.09	119.40
3	A1	1137	C	N3-C4-N4	5.27	121.69	118.00
3	A1	1410	A	C3'-C2'-C1'	5.27	105.71	101.50
25	BB	160	A	C4'-C3'-C2'	5.27	107.87	102.60
25	BB	187	G	C4-C5-C6	-5.27	115.64	118.80
25	BB	191	A	C5-C6-N6	5.27	127.91	123.70
25	BB	221	A	C4'-C3'-C2'	-5.27	97.33	102.60
25	BB	564	C	C3'-C2'-C1'	-5.27	97.29	101.50
25	BB	673	C	C5-C4-N4	-5.27	116.51	120.20
25	BB	901	C	N3-C4-C5	5.27	124.01	121.90
25	BB	1521	G	C6-C5-N7	5.27	133.56	130.40
25	BB	1819	A	C4'-C3'-C2'	-5.27	97.33	102.60
25	BB	1853	A	O5'-C5'-C4'	5.27	121.71	111.70
25	BB	2053	G	C4'-C3'-O3'	5.27	123.54	113.00
25	BB	2074	U	N3-C4-O4	-5.27	115.71	119.40
25	BB	2404	U	C3'-C2'-C1'	5.27	105.71	101.50
55	B6	110	PRO	CA-N-CD	-5.27	104.12	111.50
6	AD	65	TYR	CB-CG-CD1	-5.27	117.84	121.00
25	BB	124	G	C8-N9-C4	-5.27	104.29	106.40
25	BB	220	G	C4-N9-C1'	-5.27	119.65	126.50
25	BB	600	G	P-O3'-C3'	5.27	126.02	119.70
25	BB	789	A	C5-C6-N1	5.27	120.33	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	809	G	C6-C5-N7	5.27	133.56	130.40
25	BB	1048	A	O4'-C1'-N9	5.27	112.41	108.20
25	BB	1391	U	O4'-C4'-C3'	-5.27	98.73	104.00
1	AP	61	C	C5'-C4'-O4'	5.26	115.42	109.10
1	AE	47	U	O4'-C1'-N1	-5.26	103.99	108.20
3	A1	180	U	N1-C1'-C2'	5.26	120.84	114.00
3	A1	206	C	N3-C4-N4	5.26	121.69	118.00
3	A1	233	C	C5'-C4'-C3'	-5.26	107.58	116.00
3	A1	257	G	C5'-C4'-O4'	5.26	115.42	109.10
3	A1	490	C	P-O5'-C5'	5.26	129.32	120.90
3	A1	669	G	C6-N1-C2	-5.26	121.94	125.10
3	A1	788	U	C6-N1-C2	-5.26	117.84	121.00
3	A1	1268	G	N1-C2-N3	-5.26	120.74	123.90
3	A1	1350	A	N3-C4-C5	5.26	130.49	126.80
3	A1	1395	C	C6-N1-C2	-5.26	118.19	120.30
5	AC	30	ILE	O-C-N	-5.26	114.28	122.70
13	AL	2	ARG	NE-CZ-NH2	-5.26	117.67	120.30
20	AU	5	VAL	CA-CB-CG2	5.26	118.80	110.90
25	BB	101	A	C4'-C3'-C2'	-5.26	97.34	102.60
25	BB	459	U	N1-C2-O2	-5.26	119.11	122.80
25	BB	683	U	C5'-C4'-O4'	5.26	115.42	109.10
25	BB	949	G	C5'-C4'-O4'	-5.26	102.78	109.10
25	BB	1270	C	C6-N1-C1'	-5.26	114.48	120.80
25	BB	1425	G	P-O3'-C3'	5.26	126.02	119.70
25	BB	1426	G	C8-N9-C4	-5.26	104.29	106.40
25	BB	1794	A	C1'-O4'-C4'	-5.26	105.69	109.90
25	BB	1928	A	P-O3'-C3'	5.26	126.02	119.70
1	AP	9	A	O4'-C1'-N9	5.26	112.41	108.20
1	AE	9	A	O4'-C1'-C2'	5.26	112.34	107.60
3	A1	211	G	C5'-C4'-C3'	-5.26	107.58	116.00
3	A1	447	G	N1-C2-N2	-5.26	111.46	116.20
3	A1	470	C	C3'-C2'-C1'	5.26	105.71	101.50
3	A1	1222	G	C6-N1-C2	-5.26	121.94	125.10
3	A1	1456	A	N3-C4-N9	-5.26	123.19	127.40
25	BB	14	A	C1'-O4'-C4'	-5.26	105.69	109.90
25	BB	53	A	C4-C5-C6	-5.26	114.37	117.00
25	BB	1366	A	C6-C5-N7	5.26	135.98	132.30
25	BB	2049	G	N7-C8-N9	5.26	115.73	113.10
25	BB	2111	U	O4'-C4'-C3'	5.26	110.31	106.10
34	BK	29	THR	OG1-CB-CG2	-5.26	97.89	110.00
1	AP	12	U	C4-C5-C6	5.26	122.86	119.70
3	A1	76	G	C2-N3-C4	-5.26	109.27	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	201	G	P-O3'-C3'	5.26	126.01	119.70
3	A1	322	C	C5'-C4'-C3'	5.26	124.42	116.00
3	A1	364	A	N9-C1'-C2'	5.26	120.84	114.00
3	A1	837	U	O4'-C1'-N1	5.26	112.41	108.20
3	A1	897	C	C5'-C4'-C3'	-5.26	107.58	116.00
25	BB	220	G	C6-C5-N7	5.26	133.56	130.40
25	BB	437	U	C1'-O4'-C4'	-5.26	105.69	109.90
25	BB	803	U	C5-C6-N1	-5.26	120.07	122.70
25	BB	831	G	N3-C4-C5	-5.26	125.97	128.60
25	BB	1084	A	C4-C5-N7	5.26	113.33	110.70
25	BB	1193	G	C6-C5-N7	5.26	133.56	130.40
25	BB	1359	A	N1-C2-N3	-5.26	126.67	129.30
25	BB	1651	G	C6-N1-C2	-5.26	121.94	125.10
25	BB	2115	G	C4'-C3'-C2'	-5.26	97.34	102.60
25	BB	2118	U	C5'-C4'-C3'	-5.26	107.58	116.00
25	BB	2394	C	N3-C4-C5	5.26	124.00	121.90
25	BB	2497	A	O3'-P-O5'	5.26	114.00	104.00
25	BB	2668	G	O4'-C1'-N9	5.26	112.41	108.20
30	BG	75	ILE	CA-CB-CG1	5.26	121.00	111.00
3	A1	29	U	C5'-C4'-O4'	5.26	115.41	109.10
3	A1	186	C	N1-C2-N3	5.26	122.88	119.20
3	A1	674	G	N3-C2-N2	-5.26	116.22	119.90
3	A1	861	G	N3-C2-N2	-5.26	116.22	119.90
3	A1	923	A	C2-N3-C4	5.26	113.23	110.60
3	A1	1247	U	C2-N3-C4	-5.26	123.84	127.00
3	A1	1276	G	N9-C1'-C2'	-5.26	106.22	112.00
25	BB	325	G	C5'-C4'-O4'	5.26	115.41	109.10
25	BB	830	G	C8-N9-C4	-5.26	104.30	106.40
25	BB	950	G	C8-N9-C1'	5.26	133.84	127.00
25	BB	992	C	C1'-O4'-C4'	5.26	114.11	109.90
25	BB	1013	C	N3-C4-N4	-5.26	114.32	118.00
25	BB	1091	G	C2-N3-C4	-5.26	109.27	111.90
25	BB	1275	A	C1'-O4'-C4'	-5.26	105.69	109.90
25	BB	1300	G	N9-C4-C5	5.26	107.50	105.40
25	BB	1606	C	C2-N3-C4	-5.26	117.27	119.90
25	BB	1865	U	C3'-C2'-C1'	5.26	105.71	101.50
25	BB	2355	G	C5'-C4'-C3'	-5.26	107.58	116.00
25	BB	2591	C	O3'-P-O5'	5.26	114.00	104.00
25	BB	2843	G	C5-C6-O6	5.26	131.75	128.60
48	BY	182	ALA	CB-CA-C	5.26	117.99	110.10
3	A1	65	A	C3'-C2'-C1'	5.26	105.71	101.50
3	A1	313	A	O5'-C5'-C4'	-5.26	101.71	111.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	551	U	N3-C4-O4	5.26	123.08	119.40
3	A1	766	A	C5-C6-N6	5.26	127.91	123.70
3	A1	1137	C	C3'-C2'-C1'	-5.26	97.29	101.50
3	A1	1236	A	C4'-C3'-C2'	-5.26	97.34	102.60
3	A1	1403	C	C2-N1-C1'	5.26	124.58	118.80
8	AG	32	ASP	OD1-CG-OD2	-5.26	113.31	123.30
25	BB	261	G	N3-C4-N9	5.26	129.16	126.00
25	BB	2238	G	C5-C6-N1	5.26	114.13	111.50
1	AA	8	U	O4'-C1'-N1	5.26	112.41	108.20
3	A1	128	G	C5-C6-O6	-5.26	125.45	128.60
3	A1	354	G	C8-N9-C4	-5.26	104.30	106.40
3	A1	484	G	O3'-P-O5'	-5.26	94.01	104.00
3	A1	594	U	N3-C4-O4	5.26	123.08	119.40
3	A1	792	A	C5-C6-N1	5.26	120.33	117.70
3	A1	962	C	P-O3'-C3'	5.26	126.01	119.70
3	A1	1276	G	C5'-C4'-C3'	-5.26	107.59	116.00
3	A1	1356	G	N3-C4-N9	5.26	129.15	126.00
3	A1	1422	G	C1'-O4'-C4'	-5.26	105.69	109.90
24	BA	103	U	N1-C2-N3	5.26	118.05	114.90
25	BB	529	A	C6-C5-N7	5.26	135.98	132.30
25	BB	575	A	O5'-C5'-C4'	5.26	121.69	111.70
25	BB	926	G	C4-C5-N7	5.26	112.90	110.80
25	BB	1183	U	N1-C2-O2	5.26	126.48	122.80
25	BB	1391	U	N1-C2-N3	5.26	118.05	114.90
25	BB	1498	C	C5-C4-N4	-5.26	116.52	120.20
25	BB	1667	G	N1-C2-N3	-5.26	120.75	123.90
25	BB	1904	G	C5-C6-O6	-5.26	125.45	128.60
25	BB	2203	U	C5'-C4'-O4'	5.26	115.41	109.10
25	BB	2295	C	O4'-C1'-N1	5.26	112.40	108.20
25	BB	2314	A	C4-C5-N7	-5.26	108.07	110.70
25	BB	2477	U	C4'-C3'-C2'	5.26	107.86	102.60
25	BB	2644	G	N1-C2-N3	5.26	127.05	123.90
25	BB	2747	G	C5'-C4'-C3'	-5.26	107.59	116.00
25	BB	2789	C	N1-C1'-C2'	5.26	120.83	114.00
31	BH	108	ASP	CB-CG-OD1	5.26	123.03	118.30
33	BJ	47	ARG	NE-CZ-NH2	5.26	122.93	120.30
43	BT	9	ARG	CD-NE-CZ	5.26	130.96	123.60
50	B1	104	ALA	C-N-CA	5.26	134.84	121.70
3	A1	161	A	C6-C5-N7	5.25	135.98	132.30
3	A1	528	C	C5-C6-N1	5.25	123.63	121.00
3	A1	570	G	N1-C2-N2	-5.25	111.47	116.20
3	A1	1296	C	N1-C2-O2	5.25	122.05	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1354	U	N1-C1'-C2'	5.25	120.83	114.00
25	BB	51	G	C5-C6-N1	5.25	114.13	111.50
25	BB	327	G	N3-C2-N2	-5.25	116.22	119.90
25	BB	735	A	C5'-C4'-O4'	-5.25	102.79	109.10
25	BB	776	G	N3-C2-N2	5.25	123.58	119.90
25	BB	952	G	C5-C6-O6	-5.25	125.45	128.60
25	BB	1985	C	N3-C4-N4	-5.25	114.32	118.00
25	BB	2681	C	P-O3'-C3'	5.25	126.01	119.70
48	BY	23	PRO	CA-C-N	-5.25	105.64	117.20
1	AP	24	G	C3'-C2'-C1'	5.25	105.70	101.50
3	A1	377	G	C5-C6-O6	5.25	131.75	128.60
3	A1	404	G	C4-C5-N7	5.25	112.90	110.80
3	A1	892	A	C4'-C3'-C2'	-5.25	97.35	102.60
3	A1	1046	A	O4'-C4'-C3'	5.25	110.30	106.10
3	A1	1099	G	C6-N1-C2	-5.25	121.95	125.10
3	A1	1528	U	C4'-C3'-C2'	-5.25	97.35	102.60
25	BB	119	A	N3-C4-N9	-5.25	123.20	127.40
25	BB	503	A	N1-C2-N3	5.25	131.93	129.30
25	BB	1284	A	C6-C5-N7	5.25	135.98	132.30
25	BB	1378	A	C6-C5-N7	5.25	135.98	132.30
25	BB	1731	G	C4-C5-C6	5.25	121.95	118.80
25	BB	2189	U	O5'-C5'-C4'	-5.25	101.72	111.70
25	BB	2486	C	C5'-C4'-C3'	-5.25	107.59	116.00
25	BB	2498	C	O4'-C1'-C2'	-5.25	100.55	105.80
3	A1	32	A	C1'-O4'-C4'	-5.25	105.70	109.90
3	A1	370	C	C6-N1-C2	-5.25	118.20	120.30
3	A1	678	U	N1-C2-N3	5.25	118.05	114.90
3	A1	857	C	C5-C4-N4	-5.25	116.52	120.20
3	A1	888	G	OP2-P-O3'	5.25	116.75	105.20
3	A1	928	G	C5'-C4'-C3'	-5.25	107.60	116.00
7	AF	43	LYS	C-N-CA	5.25	134.83	121.70
25	BB	732	C	C2-N3-C4	-5.25	117.27	119.90
25	BB	766	U	O4'-C1'-C2'	-5.25	100.55	105.80
25	BB	1128	G	OP2-P-O3'	5.25	116.75	105.20
25	BB	1440	U	P-O3'-C3'	5.25	126.00	119.70
25	BB	1460	U	C4-C5-C6	5.25	122.85	119.70
25	BB	2042	A	C1'-O4'-C4'	-5.25	105.70	109.90
25	BB	2442	C	C1'-O4'-C4'	-5.25	105.70	109.90
25	BB	2549	G	C5-C6-O6	5.25	131.75	128.60
29	BF	40	ARG	CD-NE-CZ	5.25	130.95	123.60
30	BG	53	THR	OG1-CB-CG2	-5.25	97.92	110.00
1	AA	51	G	N1-C2-N2	5.25	120.92	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	122	G	O5'-P-OP2	-5.25	100.97	105.70
24	BA	31	C	C5'-C4'-O4'	-5.25	102.80	109.10
25	BB	512	G	C4-C5-N7	-5.25	108.70	110.80
25	BB	1353	A	C6-C5-N7	5.25	135.97	132.30
25	BB	1501	G	N7-C8-N9	5.25	115.72	113.10
25	BB	1719	G	C5'-C4'-C3'	-5.25	107.60	116.00
25	BB	1719	G	O4'-C4'-C3'	5.25	110.30	106.10
25	BB	2147	A	C6-C5-N7	5.25	135.97	132.30
25	BB	2848	G	N1-C6-O6	-5.25	116.75	119.90
25	BB	2859	G	N7-C8-N9	5.25	115.72	113.10
25	BB	2896	C	C2'-C3'-O3'	5.25	122.10	113.70
3	A1	210	C	N3-C4-C5	5.25	124.00	121.90
3	A1	322	C	O5'-P-OP2	5.25	117.00	110.70
3	A1	344	A	C4-C5-N7	5.25	113.33	110.70
3	A1	601	G	C4'-C3'-C2'	5.25	107.85	102.60
3	A1	647	C	N1-C2-O2	5.25	122.05	118.90
3	A1	1035	A	C1'-O4'-C4'	5.25	114.10	109.90
3	A1	1152	A	C4-C5-N7	5.25	113.33	110.70
24	BA	78	A	N3-C4-N9	5.25	131.60	127.40
24	BA	109	A	N9-C4-C5	-5.25	103.70	105.80
25	BB	140	C	C5'-C4'-O4'	-5.25	102.80	109.10
25	BB	335	C	C4-C5-C6	5.25	120.02	117.40
25	BB	459	U	N1-C2-N3	5.25	118.05	114.90
25	BB	731	C	C3'-C2'-C1'	5.25	105.70	101.50
25	BB	809	G	N3-C4-C5	-5.25	125.98	128.60
25	BB	1132	U	C1'-O4'-C4'	-5.25	105.70	109.90
25	BB	1588	G	N1-C2-N3	5.25	127.05	123.90
25	BB	1891	G	C5-C6-O6	5.25	131.75	128.60
25	BB	2182	U	O4'-C1'-N1	5.25	112.40	108.20
25	BB	2810	A	N3-C4-C5	5.25	130.47	126.80
1	AA	4	G	C5'-C4'-C3'	-5.25	107.61	116.00
1	AP	45	G	C2-N3-C4	5.25	114.52	111.90
3	A1	278	G	C4'-C3'-C2'	5.25	107.85	102.60
3	A1	448	A	C5-C6-N6	5.25	127.90	123.70
3	A1	1390	U	N3-C2-O2	-5.25	118.53	122.20
24	BA	53	A	N9-C4-C5	-5.25	103.70	105.80
24	BA	108	A	C4-C5-N7	-5.25	108.08	110.70
25	BB	122	G	C6-N1-C2	-5.25	121.95	125.10
25	BB	134	G	C1'-C2'-O2'	-5.25	94.86	110.60
25	BB	242	G	C3'-C2'-C1'	-5.25	97.30	101.50
25	BB	987	C	N1-C1'-C2'	5.25	120.82	114.00
25	BB	1025	G	N7-C8-N9	5.25	115.72	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1053	C	C4-C5-C6	5.25	120.02	117.40
25	BB	1585	C	N3-C2-O2	-5.25	118.23	121.90
25	BB	1669	A	C6-C5-N7	5.25	135.97	132.30
25	BB	2342	C	N3-C4-C5	5.25	124.00	121.90
25	BB	2437	G	C2'-C3'-O3'	5.25	122.10	113.70
25	BB	2544	G	N1-C2-N2	5.25	120.92	116.20
25	BB	2694	G	C5'-C4'-O4'	5.25	115.40	109.10
50	B1	6	LYS	CB-CA-C	5.25	120.89	110.40
1	AE	42	G	C8-N9-C4	-5.25	104.30	106.40
3	A1	1004	A	N9-C4-C5	5.25	107.90	105.80
3	A1	1224	U	C5-C6-N1	-5.25	120.08	122.70
3	A1	1353	G	C5'-C4'-O4'	-5.25	102.81	109.10
24	BA	51	G	O4'-C1'-C2'	-5.25	100.56	105.80
25	BB	1313	U	C6-N1-C1'	-5.25	113.86	121.20
25	BB	1983	G	C3'-C2'-C1'	5.25	105.70	101.50
34	BK	93	PHE	CB-CG-CD2	5.25	124.47	120.80
3	A1	47	C	N1-C2-N3	5.24	122.87	119.20
3	A1	107	G	C5-C6-O6	5.24	131.75	128.60
3	A1	498	A	O3'-P-O5'	-5.24	94.04	104.00
3	A1	1163	A	C5-N7-C8	-5.24	101.28	103.90
21	AV	22	ALA	CB-CA-C	5.24	117.97	110.10
24	BA	61	G	N1-C2-N2	5.24	120.92	116.20
25	BB	26	G	N9-C4-C5	5.24	107.50	105.40
25	BB	32	C	N1-C1'-C2'	5.24	120.82	114.00
25	BB	83	A	N1-C2-N3	-5.24	126.68	129.30
25	BB	136	G	C4-C5-N7	5.24	112.90	110.80
25	BB	175	G	N9-C1'-C2'	-5.24	106.23	112.00
25	BB	388	G	N1-C2-N3	5.24	127.05	123.90
25	BB	522	A	P-O3'-C3'	5.24	125.99	119.70
25	BB	741	U	C5'-C4'-C3'	-5.24	107.61	116.00
25	BB	757	G	O4'-C1'-N9	5.24	112.39	108.20
25	BB	1089	A	P-O3'-C3'	5.24	125.99	119.70
25	BB	1105	U	C6-N1-C2	-5.24	117.85	121.00
25	BB	1368	G	C4-N9-C1'	-5.24	119.68	126.50
25	BB	1388	G	C6-N1-C2	-5.24	121.95	125.10
25	BB	1503	A	N3-C4-C5	5.24	130.47	126.80
25	BB	1516	G	C5'-C4'-C3'	-5.24	107.61	116.00
25	BB	1986	C	C6-N1-C2	-5.24	118.20	120.30
30	BG	22	ARG	NH1-CZ-NH2	-5.24	113.63	119.40
38	BO	96	LYS	C-N-CA	5.24	134.81	121.70
1	AP	22	G	N3-C4-C5	-5.24	125.98	128.60
3	A1	25	C	C4-C5-C6	5.24	120.02	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	480	U	C5-C4-O4	5.24	129.04	125.90
3	A1	782	A	C3'-C2'-C1'	-5.24	97.31	101.50
3	A1	1023	U	N1-C2-N3	5.24	118.05	114.90
3	A1	1092	A	N9-C1'-C2'	-5.24	106.23	112.00
3	A1	1220	G	C8-N9-C1'	5.24	133.81	127.00
3	A1	1321	U	C6-N1-C1'	-5.24	113.86	121.20
20	AU	40	SER	O-C-N	-5.24	114.31	122.70
24	BA	96	G	C3'-C2'-C1'	-5.24	97.31	101.50
25	BB	1423	G	O4'-C4'-C3'	5.24	110.29	106.10
25	BB	1528	A	N7-C8-N9	-5.24	111.18	113.80
25	BB	1776	G	C6-N1-C2	-5.24	121.95	125.10
25	BB	1825	U	C4'-C3'-O3'	5.24	123.48	113.00
25	BB	2009	A	O4'-C1'-N9	5.24	112.39	108.20
25	BB	2392	A	O4'-C1'-C2'	5.24	112.32	107.60
32	BI	101	GLU	OE1-CD-OE2	-5.24	117.01	123.30
3	A1	111	G	C5'-C4'-O4'	5.24	115.39	109.10
3	A1	200	G	C5'-C4'-C3'	-5.24	107.62	116.00
3	A1	291	U	C2-N3-C4	-5.24	123.86	127.00
3	A1	987	G	C4-C5-N7	-5.24	108.70	110.80
3	A1	1169	A	C2'-C3'-O3'	5.24	122.08	113.70
3	A1	1345	U	O4'-C1'-C2'	5.24	112.32	107.60
3	A1	1405	G	C5-N7-C8	-5.24	101.68	104.30
25	BB	166	U	C5-C4-O4	5.24	129.04	125.90
25	BB	282	A	C4'-C3'-C2'	-5.24	97.36	102.60
25	BB	342	A	O4'-C4'-C3'	5.24	110.29	106.10
25	BB	554	U	C5-C4-O4	-5.24	122.76	125.90
25	BB	685	A	N1-C2-N3	-5.24	126.68	129.30
25	BB	699	A	C6-C5-N7	5.24	135.97	132.30
25	BB	750	A	O4'-C1'-N9	5.24	112.39	108.20
25	BB	773	U	O4'-C1'-N1	5.24	112.39	108.20
25	BB	1660	G	N7-C8-N9	-5.24	110.48	113.10
25	BB	2041	U	P-O3'-C3'	5.24	125.99	119.70
25	BB	2236	U	C5'-C4'-O4'	5.24	115.39	109.10
25	BB	2265	U	N1-C2-O2	-5.24	119.13	122.80
25	BB	2527	C	N3-C4-N4	-5.24	114.33	118.00
25	BB	2679	A	N3-C4-N9	-5.24	123.21	127.40
3	A1	34	C	C5-C4-N4	-5.24	116.53	120.20
3	A1	90	C	C2-N1-C1'	-5.24	113.04	118.80
3	A1	366	A	C8-N9-C4	-5.24	103.70	105.80
3	A1	440	C	C4'-C3'-C2'	-5.24	97.36	102.60
3	A1	643	C	N3-C4-N4	-5.24	114.33	118.00
3	A1	818	G	N1-C6-O6	-5.24	116.76	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	970	C	P-O3'-C3'	5.24	125.99	119.70
3	A1	1316	G	N1-C2-N3	5.24	127.04	123.90
7	AF	78	ARG	CD-NE-CZ	5.24	130.94	123.60
24	BA	58	A	N3-C4-C5	5.24	130.47	126.80
25	BB	307	G	O4'-C1'-N9	5.24	112.39	108.20
25	BB	451	U	C2-N1-C1'	5.24	123.99	117.70
25	BB	491	G	C3'-C2'-C1'	5.24	105.69	101.50
25	BB	555	G	C5-C6-N1	5.24	114.12	111.50
25	BB	590	A	N9-C4-C5	-5.24	103.70	105.80
25	BB	843	G	C2-N3-C4	5.24	114.52	111.90
25	BB	1067	A	C4-C5-N7	-5.24	108.08	110.70
25	BB	1228	G	O4'-C1'-N9	5.24	112.39	108.20
25	BB	1595	C	C1'-O4'-C4'	-5.24	105.71	109.90
25	BB	2032	G	C5-C6-N1	5.24	114.12	111.50
25	BB	2210	U	C2-N3-C4	-5.24	123.86	127.00
25	BB	2538	C	P-O3'-C3'	5.24	125.98	119.70
25	BB	2755	C	C5-C4-N4	-5.24	116.53	120.20
30	BG	94	TYR	CE1-CZ-CE2	5.24	128.18	119.80
3	A1	1430	A	N3-C4-N9	-5.24	123.21	127.40
25	BB	110	G	C6-N1-C2	-5.24	121.96	125.10
25	BB	957	C	P-O3'-C3'	5.24	125.98	119.70
25	BB	1147	A	C5-C6-N6	5.24	127.89	123.70
25	BB	1222	U	N1-C1'-C2'	5.24	120.81	114.00
25	BB	1364	G	O3'-P-O5'	5.24	113.95	104.00
25	BB	2509	G	O4'-C1'-C2'	-5.24	100.56	105.80
25	BB	2832	U	C2-N3-C4	-5.24	123.86	127.00
31	BH	87	ILE	CA-CB-CG1	5.24	120.95	111.00
3	A1	271	C	O4'-C4'-C3'	5.24	110.29	106.10
3	A1	295	C	N3-C2-O2	-5.24	118.23	121.90
3	A1	337	G	N1-C2-N3	-5.24	120.76	123.90
3	A1	598	U	C5'-C4'-C3'	-5.24	107.62	116.00
3	A1	612	C	C6-N1-C1'	5.24	127.08	120.80
3	A1	1531	A	C4'-C3'-C2'	-5.24	97.36	102.60
25	BB	926	G	N3-C4-N9	-5.24	122.86	126.00
25	BB	1005	C	C5'-C4'-C3'	-5.24	107.62	116.00
25	BB	1024	G	O4'-C1'-C2'	-5.24	100.56	105.80
25	BB	1065	U	N3-C4-C5	5.24	117.74	114.60
25	BB	1348	C	C2-N1-C1'	-5.24	113.04	118.80
25	BB	1462	C	N1-C2-O2	5.24	122.04	118.90
25	BB	1618	A	C5'-C4'-O4'	-5.24	102.82	109.10
25	BB	1901	A	C5-C6-N6	5.24	127.89	123.70
25	BB	2125	G	N1-C2-N2	5.24	120.91	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2142	A	N3-C4-C5	5.24	130.47	126.80
25	BB	2358	A	N9-C4-C5	5.24	107.89	105.80
47	BX	12	ARG	CD-NE-CZ	5.24	130.93	123.60
1	AE	69	U	N3-C2-O2	-5.23	118.54	122.20
3	A1	282	A	C2-N3-C4	5.23	113.22	110.60
3	A1	403	C	C2-N3-C4	-5.23	117.28	119.90
25	BB	333	G	C5'-C4'-C3'	-5.23	107.63	116.00
33	BJ	18	LYS	C-N-CA	5.23	134.79	121.70
1	AA	3	G	C2-N3-C4	5.23	114.52	111.90
1	AA	60	C	N1-C2-O2	-5.23	115.76	118.90
3	A1	76	G	O4'-C4'-C3'	-5.23	98.77	104.00
3	A1	170	U	C4-C5-C6	5.23	122.84	119.70
3	A1	172	A	O4'-C1'-N9	-5.23	104.01	108.20
3	A1	181	A	C3'-C2'-C1'	-5.23	97.31	101.50
3	A1	665	A	N7-C8-N9	5.23	116.42	113.80
3	A1	826	C	C4-C5-C6	-5.23	114.78	117.40
3	A1	865	A	N9-C1'-C2'	5.23	120.80	114.00
3	A1	1199	U	O4'-C1'-N1	5.23	112.39	108.20
3	A1	1361	G	C6-N1-C2	-5.23	121.96	125.10
3	A1	1368	A	C1'-O4'-C4'	-5.23	105.71	109.90
3	A1	1408	A	C5'-C4'-O4'	5.23	115.38	109.10
12	AK	55	ALA	N-CA-CB	-5.23	102.77	110.10
24	BA	73	A	C5'-C4'-O4'	5.23	115.38	109.10
25	BB	476	G	C2'-C3'-O3'	5.23	122.07	113.70
25	BB	514	A	N9-C4-C5	5.23	107.89	105.80
25	BB	852	U	O4'-C1'-N1	5.23	112.39	108.20
25	BB	1242	U	C3'-C2'-C1'	-5.23	97.31	101.50
25	BB	1286	A	N7-C8-N9	5.23	116.42	113.80
25	BB	1765	U	P-O3'-C3'	5.23	125.98	119.70
25	BB	2206	C	C4-C5-C6	-5.23	114.78	117.40
25	BB	2365	G	O3'-P-O5'	-5.23	94.06	104.00
25	BB	2481	G	O4'-C1'-N9	-5.23	104.01	108.20
25	BB	2663	G	C5'-C4'-O4'	5.23	115.38	109.10
25	BB	2824	C	C5-C4-N4	-5.23	116.54	120.20
46	BW	13	PHE	CB-CG-CD2	5.23	124.46	120.80
1	AA	54	U	C5-C6-N1	5.23	125.31	122.70
2	AM	2	U	C2-N1-C1'	5.23	123.98	117.70
3	A1	178	C	P-O5'-C5'	5.23	129.27	120.90
3	A1	1255	G	N1-C2-N2	-5.23	111.49	116.20
24	BA	40	U	N1-C2-O2	5.23	126.46	122.80
24	BA	92	C	C1'-O4'-C4'	5.23	114.08	109.90
25	BB	51	G	C5'-C4'-C3'	5.23	124.37	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	89	A	O4'-C1'-N9	5.23	112.39	108.20
25	BB	337	C	C4'-C3'-C2'	-5.23	97.37	102.60
25	BB	638	G	C5'-C4'-C3'	-5.23	107.63	116.00
25	BB	781	A	C6-C5-N7	5.23	135.96	132.30
25	BB	979	A	N7-C8-N9	5.23	116.42	113.80
25	BB	1660	G	C4-C5-C6	-5.23	115.66	118.80
25	BB	1756	G	N1-C2-N3	5.23	127.04	123.90
25	BB	1823	G	C8-N9-C4	-5.23	104.31	106.40
25	BB	1896	G	C2'-C3'-O3'	5.23	122.07	113.70
25	BB	2742	G	C4'-C3'-C2'	-5.23	97.37	102.60
31	BH	89	ASP	CB-CG-OD1	5.23	123.01	118.30
33	BJ	60	TRP	CB-CG-CD1	-5.23	120.20	127.00
36	BM	12	ARG	CD-NE-CZ	5.23	130.92	123.60
50	B1	181	ILE	C-N-CA	5.23	134.78	121.70
52	B3	151	ARG	CD-NE-CZ	5.23	130.92	123.60
1	AE	75	C	C3'-C2'-C1'	5.23	105.68	101.50
3	A1	878	A	C5-N7-C8	-5.23	101.29	103.90
3	A1	1349	A	C5'-C4'-O4'	5.23	115.37	109.10
7	AF	24	VAL	CG1-CB-CG2	-5.23	102.53	110.90
25	BB	179	C	N1-C2-N3	5.23	122.86	119.20
25	BB	842	U	O4'-C1'-N1	5.23	112.38	108.20
25	BB	2618	G	C6-N1-C2	-5.23	121.96	125.10
25	BB	2651	C	C5'-C4'-C3'	-5.23	107.63	116.00
1	AP	21	A	C5'-C4'-O4'	5.23	115.37	109.10
2	AM	20	U	C3'-C2'-C1'	5.23	105.68	101.50
3	A1	176	C	N3-C4-N4	-5.23	114.34	118.00
3	A1	289	G	N9-C4-C5	5.23	107.49	105.40
3	A1	313	A	N1-C6-N6	-5.23	115.46	118.60
3	A1	845	A	C5'-C4'-C3'	-5.23	107.64	116.00
3	A1	1034	G	C6-N1-C2	-5.23	121.96	125.10
3	A1	1306	A	C5-C6-N1	5.23	120.31	117.70
3	A1	1520	C	C5-C4-N4	5.23	123.86	120.20
10	AI	69	ASP	C-N-CA	5.23	134.77	121.70
25	BB	8	C	C4-C5-C6	5.23	120.01	117.40
25	BB	248	G	N3-C4-C5	-5.23	125.99	128.60
25	BB	290	U	C1'-O4'-C4'	-5.23	105.72	109.90
25	BB	294	A	C4-C5-N7	-5.23	108.09	110.70
25	BB	869	G	C1'-O4'-C4'	5.23	114.08	109.90
25	BB	1018	U	N1-C1'-C2'	-5.23	106.25	112.00
25	BB	1374	G	N3-C4-C5	-5.23	125.99	128.60
25	BB	1603	A	C3'-C2'-C1'	5.23	105.68	101.50
25	BB	1608	A	O4'-C4'-C3'	5.23	110.28	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1864	U	C5-C6-N1	-5.23	120.09	122.70
25	BB	2420	C	C5-C6-N1	-5.23	118.39	121.00
25	BB	2462	C	C5-C4-N4	-5.23	116.54	120.20
25	BB	2583	G	N1-C2-N3	5.23	127.04	123.90
25	BB	2588	G	C4-C5-N7	5.23	112.89	110.80
25	BB	2740	A	C6-N1-C2	-5.23	115.46	118.60
25	BB	2772	C	C5'-C4'-O4'	-5.23	102.83	109.10
45	BV	31	LEU	CB-CG-CD1	5.23	119.89	111.00
47	BX	9	LYS	C-N-CA	5.23	134.77	121.70
55	B6	1	MET	N-CA-CB	-5.23	101.19	110.60
3	A1	39	G	P-O5'-C5'	5.23	129.26	120.90
3	A1	527	G	O5'-C5'-C4'	5.23	121.63	111.70
3	A1	699	C	OP1-P-OP2	-5.23	111.76	119.60
3	A1	973	G	P-O3'-C3'	5.23	125.97	119.70
3	A1	1161	C	C4-C5-C6	-5.23	114.79	117.40
3	A1	1192	C	C2'-C3'-O3'	5.23	122.06	113.70
3	A1	1377	A	N3-C4-N9	-5.23	123.22	127.40
10	AI	5	ARG	NH1-CZ-NH2	-5.23	113.65	119.40
25	BB	663	G	C4'-C3'-C2'	-5.23	97.37	102.60
25	BB	1277	G	C5-N7-C8	5.23	106.91	104.30
25	BB	1533	C	N1-C2-O2	5.23	122.04	118.90
25	BB	2369	A	C2-N3-C4	-5.23	107.99	110.60
25	BB	2800	A	C4'-C3'-C2'	-5.23	97.37	102.60
25	BB	2815	C	C5'-C4'-O4'	-5.23	102.83	109.10
3	A1	7	A	C5-C6-N1	5.22	120.31	117.70
3	A1	92	U	C4-C5-C6	5.22	122.83	119.70
3	A1	130	A	C6-N1-C2	-5.22	115.47	118.60
3	A1	618	C	C5-C6-N1	-5.22	118.39	121.00
3	A1	857	C	C1'-O4'-C4'	5.22	114.08	109.90
3	A1	1074	G	O3'-P-O5'	5.22	113.93	104.00
3	A1	1123	U	C6-N1-C2	-5.22	117.87	121.00
3	A1	1307	U	C5'-C4'-C3'	-5.22	107.64	116.00
10	AI	51	ARG	NE-CZ-NH2	-5.22	117.69	120.30
21	AV	123	GLU	CA-CB-CG	5.22	124.89	113.40
25	BB	54	G	N1-C2-N3	5.22	127.03	123.90
25	BB	108	G	C5-N7-C8	-5.22	101.69	104.30
25	BB	610	C	C1'-O4'-C4'	-5.22	105.72	109.90
25	BB	660	C	C5'-C4'-C3'	5.22	124.36	116.00
25	BB	899	A	N7-C8-N9	5.22	116.41	113.80
25	BB	1125	G	P-O3'-C3'	5.22	125.97	119.70
25	BB	1170	C	C2-N3-C4	-5.22	117.29	119.90
25	BB	2645	G	N1-C2-N2	-5.22	111.50	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2689	U	N3-C4-O4	5.22	123.06	119.40
29	BF	101	VAL	CG1-CB-CG2	-5.22	102.54	110.90
48	BY	155	VAL	CA-CB-CG2	5.22	118.74	110.90
1	AA	42	G	N3-C4-C5	-5.22	125.99	128.60
3	A1	702	A	C6-C5-N7	5.22	135.96	132.30
3	A1	719	C	C5'-C4'-O4'	-5.22	102.83	109.10
3	A1	734	G	O5'-P-OP1	-5.22	101.00	105.70
3	A1	752	G	O4'-C1'-C2'	-5.22	100.58	105.80
3	A1	949	A	C3'-C2'-C1'	5.22	105.68	101.50
3	A1	1454	G	O4'-C1'-N9	5.22	112.38	108.20
4	AB	96	LEU	CB-CG-CD2	5.22	119.88	111.00
24	BA	51	G	C2'-C3'-O3'	5.22	122.05	113.70
25	BB	50	U	C3'-C2'-C1'	5.22	105.68	101.50
25	BB	87	U	N1-C2-O2	-5.22	119.14	122.80
25	BB	247	G	C4-C5-N7	-5.22	108.71	110.80
25	BB	306	U	C6-N1-C2	-5.22	117.87	121.00
25	BB	597	G	O4'-C4'-C3'	5.22	110.28	106.10
25	BB	640	C	N1-C2-O2	5.22	122.03	118.90
25	BB	674	G	C5'-C4'-O4'	5.22	115.37	109.10
25	BB	1716	U	C5-C4-O4	-5.22	122.77	125.90
25	BB	2013	A	C6-N1-C2	-5.22	115.47	118.60
25	BB	2047	C	P-O3'-C3'	5.22	125.97	119.70
25	BB	2160	C	N1-C2-N3	5.22	122.86	119.20
25	BB	2367	G	N1-C2-N2	5.22	120.90	116.20
25	BB	2420	C	N3-C2-O2	-5.22	118.24	121.90
25	BB	2803	G	C8-N9-C1'	5.22	133.79	127.00
45	BV	5	PHE	CG-CD2-CE2	5.22	126.54	120.80
1	AA	52	U	P-O3'-C3'	5.22	125.97	119.70
3	A1	21	G	C5'-C4'-O4'	5.22	115.36	109.10
3	A1	147	G	C6-C5-N7	5.22	133.53	130.40
3	A1	1093	A	C6-N1-C2	-5.22	115.47	118.60
3	A1	1239	A	C4-C5-N7	-5.22	108.09	110.70
25	BB	175	G	C5-N7-C8	-5.22	101.69	104.30
25	BB	1153	C	C1'-O4'-C4'	5.22	114.08	109.90
25	BB	2200	C	N3-C4-N4	-5.22	114.35	118.00
25	BB	2294	G	N3-C4-N9	-5.22	122.87	126.00
25	BB	2586	U	O3'-P-O5'	-5.22	94.08	104.00
25	BB	2705	A	N9-C1'-C2'	5.22	120.79	114.00
3	A1	45	G	C4-C5-N7	5.22	112.89	110.80
3	A1	192	A	C4'-C3'-C2'	-5.22	97.38	102.60
3	A1	764	C	C4'-C3'-C2'	-5.22	97.38	102.60
3	A1	984	C	O4'-C1'-N1	5.22	112.38	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1108	G	N3-C4-N9	5.22	129.13	126.00
3	A1	1410	A	O3'-P-O5'	5.22	113.92	104.00
24	BA	98	G	C2'-C3'-O3'	5.22	122.05	113.70
24	BA	98	G	C3'-C2'-C1'	5.22	105.68	101.50
25	BB	331	C	N3-C4-C5	5.22	123.99	121.90
25	BB	493	G	C4'-C3'-C2'	-5.22	97.38	102.60
25	BB	666	A	C5-C6-N1	5.22	120.31	117.70
25	BB	695	G	C8-N9-C1'	5.22	133.79	127.00
25	BB	762	U	N3-C4-O4	5.22	123.05	119.40
25	BB	1115	G	P-O3'-C3'	5.22	125.97	119.70
25	BB	1649	G	N3-C2-N2	-5.22	116.25	119.90
25	BB	2125	G	N3-C4-N9	5.22	129.13	126.00
25	BB	2609	U	C5-C6-N1	-5.22	120.09	122.70
1	AE	40	C	N3-C2-O2	-5.22	118.25	121.90
2	AM	11	U	C4-C5-C6	5.22	122.83	119.70
3	A1	289	G	C4-C5-N7	-5.22	108.71	110.80
3	A1	1416	G	N1-C2-N3	5.22	127.03	123.90
3	A1	1432	G	C4'-C3'-C2'	5.22	107.82	102.60
3	A1	1441	A	N1-C2-N3	-5.22	126.69	129.30
18	AS	94	PHE	CB-CG-CD1	-5.22	117.15	120.80
25	BB	299	A	N3-C4-N9	-5.22	123.23	127.40
25	BB	445	C	P-O3'-C3'	5.22	125.96	119.70
25	BB	659	G	C4-C5-N7	5.22	112.89	110.80
25	BB	1166	G	C5-C6-O6	5.22	131.73	128.60
25	BB	1192	G	N1-C2-N3	-5.22	120.77	123.90
25	BB	1588	G	C5-N7-C8	-5.22	101.69	104.30
25	BB	1970	A	O5'-P-OP2	5.22	116.96	110.70
25	BB	2193	G	N9-C4-C5	5.22	107.49	105.40
1	AE	41	U	N1-C2-O2	5.22	126.45	122.80
3	A1	14	U	N3-C4-C5	-5.22	111.47	114.60
3	A1	197	A	C5-N7-C8	-5.22	101.29	103.90
3	A1	536	C	N1-C2-O2	5.22	122.03	118.90
3	A1	1088	G	C4-C5-N7	-5.22	108.71	110.80
3	A1	1151	A	C2-N3-C4	5.22	113.21	110.60
3	A1	1299	A	O4'-C1'-N9	-5.22	104.03	108.20
3	A1	1495	U	C6-N1-C2	-5.22	117.87	121.00
20	AU	37	THR	CA-CB-CG2	5.22	119.70	112.40
25	BB	28	A	C1'-O4'-C4'	-5.22	105.73	109.90
25	BB	67	U	C5'-C4'-O4'	5.22	115.36	109.10
25	BB	97	C	O4'-C1'-N1	5.22	112.37	108.20
25	BB	101	A	C5-N7-C8	5.22	106.51	103.90
25	BB	196	A	C4-C5-C6	-5.22	114.39	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	265	A	C2-N3-C4	5.22	113.21	110.60
25	BB	479	A	C3'-C2'-C1'	5.22	105.67	101.50
25	BB	1315	C	C6-N1-C2	5.22	122.39	120.30
25	BB	1511	G	N3-C2-N2	-5.22	116.25	119.90
25	BB	1698	A	N1-C2-N3	-5.22	126.69	129.30
25	BB	1775	U	C5-C6-N1	-5.22	120.09	122.70
25	BB	2075	U	C4'-C3'-C2'	-5.22	97.38	102.60
25	BB	2271	G	C5-N7-C8	-5.22	101.69	104.30
25	BB	2575	C	C2-N3-C4	-5.22	117.29	119.90
25	BB	2900	A	C2-N3-C4	5.22	113.21	110.60
29	BF	64	TRP	CD1-CG-CD2	5.22	110.47	106.30
46	BW	21	PHE	C-N-CA	5.22	134.74	121.70
1	AA	43	G	N3-C4-N9	5.21	129.13	126.00
1	AA	64	A	C8-N9-C1'	5.21	137.09	127.70
3	A1	51	A	C5'-C4'-O4'	-5.21	102.84	109.10
3	A1	53	A	C2-N3-C4	5.21	113.21	110.60
3	A1	95	C	C5-C4-N4	-5.21	116.55	120.20
3	A1	233	C	O4'-C4'-C3'	5.21	110.27	106.10
3	A1	418	C	N3-C4-C5	-5.21	119.81	121.90
17	AR	159	GLU	OE1-CD-OE2	-5.21	117.04	123.30
25	BB	178	G	C8-N9-C4	-5.21	104.31	106.40
25	BB	254	G	C6-C5-N7	5.21	133.53	130.40
25	BB	961	C	N1-C2-O2	5.21	122.03	118.90
25	BB	983	A	C3'-C2'-C1'	5.21	105.67	101.50
25	BB	1114	C	O5'-C5'-C4'	-5.21	101.79	111.70
25	BB	1712	U	C4'-C3'-C2'	-5.21	97.39	102.60
25	BB	1888	G	N7-C8-N9	5.21	115.71	113.10
25	BB	1915	U	N3-C4-C5	5.21	117.73	114.60
25	BB	2048	G	N7-C8-N9	-5.21	110.49	113.10
25	BB	2178	C	N1-C2-N3	5.21	122.85	119.20
25	BB	2383	G	N7-C8-N9	-5.21	110.49	113.10
51	B2	121	PHE	CB-CG-CD2	-5.21	117.15	120.80
3	A1	198	G	C5'-C4'-C3'	-5.21	107.66	116.00
3	A1	432	A	C5-N7-C8	-5.21	101.29	103.90
3	A1	1078	U	C6-N1-C2	-5.21	117.87	121.00
25	BB	1590	A	N7-C8-N9	5.21	116.41	113.80
25	BB	1627	G	N1-C6-O6	-5.21	116.77	119.90
25	BB	1655	A	N1-C6-N6	-5.21	115.47	118.60
25	BB	1660	G	C4-C5-N7	-5.21	108.72	110.80
25	BB	1725	U	C3'-C2'-C1'	-5.21	97.33	101.50
25	BB	2329	U	C2-N3-C4	-5.21	123.87	127.00
1	AP	50	U	O4'-C1'-N1	5.21	112.37	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	277	C	O5'-C5'-C4'	-5.21	101.80	111.70
3	A1	379	C	C2-N3-C4	-5.21	117.29	119.90
3	A1	728	A	C6-C5-N7	5.21	135.95	132.30
3	A1	1187	G	C8-N9-C4	-5.21	104.32	106.40
3	A1	1271	A	C2-N3-C4	5.21	113.21	110.60
3	A1	1355	G	N1-C2-N2	-5.21	111.51	116.20
25	BB	476	G	C4'-C3'-C2'	5.21	107.81	102.60
25	BB	487	C	C6-N1-C2	-5.21	118.22	120.30
25	BB	716	A	P-O3'-C3'	5.21	125.95	119.70
25	BB	975	A	C4'-C3'-C2'	5.21	107.81	102.60
25	BB	1413	A	C5'-C4'-C3'	-5.21	107.66	116.00
25	BB	1453	A	C5-N7-C8	-5.21	101.29	103.90
25	BB	1494	A	C8-N9-C4	-5.21	103.72	105.80
25	BB	1572	A	N3-C4-N9	-5.21	123.23	127.40
25	BB	1687	G	C1'-O4'-C4'	5.21	114.07	109.90
25	BB	1751	U	N3-C4-C5	-5.21	111.47	114.60
25	BB	1783	A	C3'-C2'-C1'	5.21	105.67	101.50
25	BB	2041	U	N1-C1'-C2'	-5.21	106.27	112.00
25	BB	2406	A	C6-N1-C2	-5.21	115.47	118.60
25	BB	2757	A	C6-C5-N7	5.21	135.95	132.30
31	BH	69	ASP	CB-CG-OD2	5.21	122.99	118.30
31	BH	97	PHE	CD1-CE1-CZ	-5.21	113.84	120.10
48	BY	102	ALA	CB-CA-C	5.21	117.92	110.10
3	A1	1527	U	N1-C2-N3	5.21	118.03	114.90
25	BB	376	G	C4-C5-N7	-5.21	108.72	110.80
25	BB	1061	U	C3'-C2'-C1'	-5.21	97.33	101.50
25	BB	1143	A	C8-N9-C4	-5.21	103.72	105.80
25	BB	1276	A	C8-N9-C4	-5.21	103.72	105.80
25	BB	2415	G	C4'-C3'-O3'	5.21	123.42	113.00
3	A1	69	G	C5'-C4'-O4'	5.21	115.35	109.10
3	A1	92	U	P-O3'-C3'	5.21	125.95	119.70
3	A1	188	C	C3'-C2'-C1'	-5.21	97.33	101.50
3	A1	249	U	C5'-C4'-C3'	-5.21	107.67	116.00
3	A1	742	G	C5-C6-N1	5.21	114.10	111.50
3	A1	800	G	N9-C4-C5	5.21	107.48	105.40
3	A1	1142	G	N1-C2-N3	-5.21	120.78	123.90
3	A1	1240	U	C1'-O4'-C4'	-5.21	105.73	109.90
3	A1	1378	C	C4-C5-C6	-5.21	114.80	117.40
3	A1	1424	U	N3-C4-O4	-5.21	115.75	119.40
24	BA	96	G	C5-N7-C8	-5.21	101.70	104.30
25	BB	310	A	C3'-C2'-C1'	-5.21	97.33	101.50
25	BB	342	A	C5-C6-N1	5.21	120.31	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	409	G	N7-C8-N9	5.21	115.70	113.10
25	BB	566	U	C5-C4-O4	5.21	129.03	125.90
25	BB	812	C	C6-N1-C2	-5.21	118.22	120.30
25	BB	846	U	N3-C2-O2	-5.21	118.56	122.20
25	BB	1008	A	C3'-C2'-C1'	5.21	105.67	101.50
25	BB	1080	A	C6-N1-C2	-5.21	115.47	118.60
25	BB	1139	G	C8-N9-C4	-5.21	104.32	106.40
25	BB	1435	G	C4-C5-N7	-5.21	108.72	110.80
25	BB	1715	G	P-O3'-C3'	5.21	125.95	119.70
25	BB	1722	A	C6-N1-C2	-5.21	115.47	118.60
25	BB	1800	C	C3'-C2'-C1'	-5.21	97.33	101.50
25	BB	2070	A	C3'-C2'-C1'	5.21	105.67	101.50
25	BB	2228	G	C8-N9-C1'	5.21	133.77	127.00
25	BB	2231	U	C4'-C3'-C2'	5.21	107.81	102.60
25	BB	2335	A	C5'-C4'-O4'	-5.21	102.85	109.10
25	BB	2370	G	C5-C6-N1	5.21	114.11	111.50
25	BB	2479	U	O4'-C1'-N1	5.21	112.37	108.20
25	BB	2523	G	O4'-C1'-C2'	-5.21	100.59	105.80
25	BB	2633	G	O3'-P-O5'	-5.21	94.11	104.00
25	BB	2634	A	C5'-C4'-O4'	5.21	115.35	109.10
25	BB	2692	G	O5'-C5'-C4'	-5.21	101.80	111.70
25	BB	2715	C	C5'-C4'-O4'	5.21	115.35	109.10
31	BH	94	ARG	CD-NE-CZ	5.21	130.89	123.60
48	BY	78	GLY	C-N-CA	5.21	134.72	121.70
1	AE	25	C	O4'-C4'-C3'	5.21	110.27	106.10
3	A1	68	G	N9-C1'-C2'	-5.21	106.27	112.00
3	A1	716	A	N1-C2-N3	-5.21	126.70	129.30
3	A1	792	A	N7-C8-N9	-5.21	111.20	113.80
3	A1	1519	A	P-O5'-C5'	5.21	129.23	120.90
10	AI	71	VAL	CA-CB-CG1	5.21	118.71	110.90
25	BB	251	A	N7-C8-N9	5.21	116.40	113.80
25	BB	806	C	C1'-O4'-C4'	-5.21	105.73	109.90
25	BB	835	C	C2-N3-C4	-5.21	117.30	119.90
25	BB	1165	A	P-O3'-C3'	5.21	125.95	119.70
25	BB	1216	G	C8-N9-C4	-5.21	104.32	106.40
25	BB	2221	G	N1-C2-N3	5.21	127.02	123.90
25	BB	2242	G	P-O5'-C5'	5.21	129.23	120.90
25	BB	2528	U	N1-C2-O2	5.21	126.44	122.80
25	BB	2636	C	C5-C4-N4	-5.21	116.56	120.20
25	BB	2868	A	C8-N9-C4	-5.21	103.72	105.80
25	BB	2903	U	C5-C4-O4	5.21	129.02	125.90
3	A1	572	A	C8-N9-C4	5.21	107.88	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1132	C	N3-C4-N4	-5.21	114.36	118.00
3	A1	1392	G	O3'-P-O5'	-5.21	94.11	104.00
3	A1	1437	A	O4'-C1'-N9	5.21	112.36	108.20
25	BB	1192	G	OP2-P-O3'	5.21	116.65	105.20
25	BB	2047	C	O4'-C1'-N1	-5.21	104.04	108.20
25	BB	2239	G	C5-C6-N1	5.21	114.10	111.50
25	BB	2496	C	C5'-C4'-O4'	5.21	115.35	109.10
25	BB	2503	A	N9-C4-C5	5.21	107.88	105.80
25	BB	2787	C	N3-C4-C5	5.21	123.98	121.90
46	BW	62	PRO	C-N-CA	5.21	134.71	121.70
3	A1	114	U	N1-C1'-C2'	5.20	120.77	114.00
3	A1	226	G	O5'-P-OP2	-5.20	101.02	105.70
3	A1	275	G	C4-N9-C1'	5.20	133.26	126.50
3	A1	478	A	O4'-C1'-N9	5.20	112.36	108.20
3	A1	500	G	C8-N9-C4	-5.20	104.32	106.40
3	A1	637	C	N1-C2-O2	5.20	122.02	118.90
3	A1	834	U	N3-C4-O4	-5.20	115.76	119.40
3	A1	934	C	N1-C2-O2	5.20	122.02	118.90
3	A1	1167	A	C1'-O4'-C4'	-5.20	105.74	109.90
3	A1	1282	C	N3-C2-O2	-5.20	118.26	121.90
3	A1	1513	A	O4'-C1'-C2'	5.20	112.28	107.60
4	AB	99	MET	CA-CB-CG	-5.20	104.45	113.30
25	BB	357	C	N1-C1'-C2'	-5.20	106.28	112.00
25	BB	377	G	C2'-C3'-O3'	5.20	122.03	113.70
25	BB	506	G	C5'-C4'-O4'	-5.20	102.86	109.10
25	BB	632	A	C8-N9-C4	-5.20	103.72	105.80
25	BB	663	G	N1-C2-N3	-5.20	120.78	123.90
25	BB	674	G	C5-C6-O6	-5.20	125.48	128.60
25	BB	1024	G	N3-C4-C5	-5.20	126.00	128.60
25	BB	1503	A	C5-C6-N6	5.20	127.86	123.70
25	BB	1617	C	O4'-C4'-C3'	-5.20	98.80	104.00
25	BB	1851	U	C5-C6-N1	-5.20	120.10	122.70
25	BB	2024	G	C3'-C2'-C1'	5.20	105.66	101.50
25	BB	2303	G	C1'-O4'-C4'	5.20	114.06	109.90
25	BB	2593	U	O4'-C4'-C3'	-5.20	98.80	104.00
25	BB	2802	G	C5'-C4'-O4'	5.20	115.34	109.10
41	BR	12	ALA	C-N-CA	5.20	134.71	121.70
3	A1	332	G	C5-C6-N1	5.20	114.10	111.50
3	A1	477	C	C6-N1-C1'	5.20	127.04	120.80
3	A1	674	G	N9-C4-C5	5.20	107.48	105.40
25	BB	320	A	O5'-C5'-C4'	-5.20	101.82	111.70
25	BB	1854	A	C5-N7-C8	-5.20	101.30	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1968	G	C6-N1-C2	-5.20	121.98	125.10
25	BB	2505	G	C5-N7-C8	-5.20	101.70	104.30
30	BG	41	ALA	N-CA-CB	-5.20	102.82	110.10
2	AM	3	U	C4-C5-C6	5.20	122.82	119.70
2	AM	18	U	C5-C4-O4	5.20	129.02	125.90
3	A1	230	G	C2'-C3'-O3'	5.20	122.02	113.70
3	A1	448	A	C2-N3-C4	5.20	113.20	110.60
3	A1	499	A	C1'-O4'-C4'	-5.20	105.74	109.90
3	A1	563	A	C6-N1-C2	-5.20	115.48	118.60
3	A1	711	G	C5'-C4'-O4'	5.20	115.34	109.10
3	A1	929	G	N9-C1'-C2'	-5.20	106.28	112.00
3	A1	998	C	C5-C4-N4	5.20	123.84	120.20
3	A1	1036	A	N3-C4-N9	-5.20	123.24	127.40
3	A1	1064	G	C5-N7-C8	-5.20	101.70	104.30
3	A1	1153	G	N3-C2-N2	-5.20	116.26	119.90
3	A1	1157	A	N7-C8-N9	5.20	116.40	113.80
3	A1	1236	A	C4-C5-N7	-5.20	108.10	110.70
15	AO	94	ALA	O-C-N	-5.20	114.36	123.20
25	BB	183	C	O4'-C4'-C3'	5.20	110.26	106.10
25	BB	525	U	O3'-P-O5'	-5.20	94.12	104.00
25	BB	733	G	O4'-C1'-N9	-5.20	104.04	108.20
25	BB	750	A	OP1-P-O3'	5.20	116.64	105.20
25	BB	976	G	OP1-P-OP2	-5.20	111.80	119.60
25	BB	1186	G	N1-C2-N2	-5.20	111.52	116.20
25	BB	1384	A	C6-C5-N7	5.20	135.94	132.30
25	BB	1959	G	C8-N9-C4	-5.20	104.32	106.40
25	BB	2052	A	N3-C4-N9	5.20	131.56	127.40
25	BB	2302	U	C2-N3-C4	-5.20	123.88	127.00
25	BB	2413	G	C3'-C2'-C1'	-5.20	97.34	101.50
25	BB	2534	A	C4'-C3'-C2'	-5.20	97.40	102.60
1	AE	15	G	C5-C6-O6	5.20	131.72	128.60
3	A1	646	G	N1-C2-N3	5.20	127.02	123.90
3	A1	846	G	O3'-P-O5'	-5.20	94.12	104.00
3	A1	1233	G	N3-C4-N9	-5.20	122.88	126.00
3	A1	1502	A	N7-C8-N9	5.20	116.40	113.80
5	AC	12	ARG	NE-CZ-NH1	5.20	122.90	120.30
19	AT	60	VAL	CG1-CB-CG2	-5.20	102.58	110.90
24	BA	2	G	N7-C8-N9	5.20	115.70	113.10
25	BB	117	G	N1-C6-O6	-5.20	116.78	119.90
25	BB	600	G	N3-C2-N2	5.20	123.54	119.90
25	BB	632	A	C5'-C4'-C3'	5.20	124.32	116.00
25	BB	1521	G	O4'-C1'-N9	-5.20	104.04	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1785	A	N1-C2-N3	-5.20	126.70	129.30
25	BB	1807	G	N3-C4-N9	5.20	129.12	126.00
25	BB	1866	A	C6-N1-C2	5.20	121.72	118.60
25	BB	2474	U	C6-N1-C1'	5.20	128.48	121.20
25	BB	2535	G	N1-C2-N3	5.20	127.02	123.90
25	BB	2538	C	N3-C2-O2	-5.20	118.26	121.90
30	BG	94	TYR	CA-CB-CG	5.20	123.28	113.40
52	B3	144	ALA	CB-CA-C	5.20	117.90	110.10
3	A1	819	A	P-O3'-C3'	5.20	125.94	119.70
3	A1	911	U	C4'-C3'-C2'	-5.20	97.40	102.60
3	A1	1287	A	C3'-C2'-C1'	5.20	105.66	101.50
3	A1	1517	G	C5'-C4'-O4'	5.20	115.34	109.10
25	BB	1034	G	N3-C2-N2	-5.20	116.26	119.90
25	BB	1471	G	C4'-C3'-O3'	-5.20	98.49	109.40
25	BB	2372	U	N1-C2-N3	5.20	118.02	114.90
25	BB	2398	U	O3'-P-O5'	-5.20	94.12	104.00
25	BB	2560	A	C6-C5-N7	5.20	135.94	132.30
25	BB	2668	G	N3-C4-N9	5.20	129.12	126.00
3	A1	64	G	C1'-O4'-C4'	-5.20	105.74	109.90
3	A1	107	G	C5'-C4'-O4'	5.20	115.33	109.10
3	A1	149	A	C4-C5-C6	-5.20	114.40	117.00
3	A1	202	G	C5'-C4'-C3'	-5.20	107.69	116.00
3	A1	476	U	C1'-O4'-C4'	5.20	114.06	109.90
3	A1	595	A	C3'-C2'-C1'	5.20	105.66	101.50
3	A1	595	A	N1-C2-N3	-5.20	126.70	129.30
3	A1	713	G	C5-C6-N1	5.20	114.10	111.50
3	A1	1401	G	N1-C2-N2	-5.20	111.52	116.20
25	BB	246	C	O4'-C4'-C3'	-5.20	98.81	104.00
25	BB	649	G	C4-C5-N7	5.20	112.88	110.80
25	BB	1492	G	O3'-P-O5'	-5.20	94.13	104.00
25	BB	1621	U	C6-N1-C2	-5.20	117.88	121.00
25	BB	1673	G	N3-C4-N9	-5.20	122.88	126.00
25	BB	1720	U	C3'-C2'-C1'	5.20	105.66	101.50
25	BB	1803	A	C5-C6-N6	5.20	127.86	123.70
25	BB	2059	A	C4-C5-N7	-5.20	108.10	110.70
25	BB	2237	G	O3'-P-O5'	5.20	113.87	104.00
25	BB	2398	U	C6-N1-C2	5.20	124.12	121.00
25	BB	2407	A	C5-N7-C8	-5.20	101.30	103.90
44	BU	20	TYR	CG-CD2-CE2	5.20	125.46	121.30
3	A1	521	G	C4-C5-C6	-5.19	115.68	118.80
3	A1	646	G	O4'-C1'-C2'	-5.19	100.61	105.80
3	A1	1262	C	C2-N1-C1'	-5.19	113.09	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1468	A	C5-C6-N1	5.19	120.30	117.70
9	AH	57	ARG	NE-CZ-NH2	5.19	122.90	120.30
17	AR	22	SER	CB-CA-C	-5.19	100.23	110.10
22	AW	112	ARG	C-N-CA	5.19	134.69	121.70
25	BB	869	G	O4'-C1'-C2'	-5.19	100.61	105.80
25	BB	1101	U	P-O3'-C3'	5.19	125.93	119.70
25	BB	1227	G	C5-C6-O6	-5.19	125.48	128.60
25	BB	1299	G	N3-C4-N9	5.19	129.12	126.00
25	BB	1954	G	C4-C5-C6	-5.19	115.68	118.80
25	BB	2847	U	C6-N1-C2	-5.19	117.88	121.00
1	AA	26	G	N3-C2-N2	-5.19	116.27	119.90
1	AP	66	A	C6-C5-N7	5.19	135.94	132.30
3	A1	144	G	C8-N9-C1'	5.19	133.75	127.00
3	A1	171	A	C2-N3-C4	5.19	113.20	110.60
3	A1	449	G	C4-C5-C6	5.19	121.92	118.80
3	A1	711	G	C6-C5-N7	5.19	133.52	130.40
3	A1	871	U	C3'-C2'-C1'	5.19	105.65	101.50
3	A1	1058	G	C6-N1-C2	-5.19	121.98	125.10
3	A1	1282	C	O4'-C1'-N1	5.19	112.35	108.20
3	A1	1361	G	O4'-C4'-C3'	5.19	110.25	106.10
3	A1	1454	G	C5-C6-O6	5.19	131.72	128.60
25	BB	843	G	C6-C5-N7	5.19	133.52	130.40
25	BB	962	G	C4'-C3'-C2'	-5.19	97.41	102.60
25	BB	1338	G	C5'-C4'-O4'	-5.19	102.87	109.10
25	BB	2122	U	C2-N3-C4	5.19	130.12	127.00
25	BB	2369	A	P-O5'-C5'	5.19	129.21	120.90
25	BB	2792	A	N1-C2-N3	-5.19	126.70	129.30
25	BB	2845	U	C3'-C2'-C1'	5.19	105.65	101.50
55	B6	99	ARG	NH1-CZ-NH2	-5.19	113.69	119.40
1	AE	13	C	C5-C6-N1	-5.19	118.40	121.00
1	AE	71	G	O4'-C1'-C2'	-5.19	100.61	105.80
3	A1	50	A	P-O3'-C3'	5.19	125.93	119.70
3	A1	511	C	C4-C5-C6	-5.19	114.81	117.40
3	A1	835	U	N1-C2-N3	5.19	118.01	114.90
3	A1	1108	G	P-O3'-C3'	5.19	125.93	119.70
24	BA	62	C	OP2-P-O3'	5.19	116.62	105.20
25	BB	561	G	C5-N7-C8	-5.19	101.70	104.30
25	BB	803	U	C5'-C4'-O4'	5.19	115.33	109.10
25	BB	1282	U	C5'-C4'-O4'	-5.19	102.87	109.10
25	BB	1665	A	N1-C2-N3	-5.19	126.70	129.30
25	BB	2136	G	C8-N9-C4	-5.19	104.32	106.40
25	BB	2492	U	C5-C6-N1	-5.19	120.11	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
28	BE	94	THR	CA-CB-CG2	5.19	119.67	112.40
53	B4	134	VAL	CG1-CB-CG2	-5.19	102.60	110.90
1	AA	1	G	C4-C5-N7	-5.19	108.72	110.80
3	A1	25	C	O3'-P-O5'	-5.19	94.14	104.00
3	A1	124	C	C4'-C3'-C2'	-5.19	97.41	102.60
3	A1	470	C	C4-C5-C6	-5.19	114.81	117.40
3	A1	611	C	N3-C2-O2	-5.19	118.27	121.90
3	A1	722	G	N1-C6-O6	-5.19	116.79	119.90
3	A1	744	C	N3-C4-N4	-5.19	114.37	118.00
3	A1	1100	C	N1-C2-O2	5.19	122.01	118.90
3	A1	1197	A	O4'-C1'-N9	5.19	112.35	108.20
25	BB	1054	A	P-O3'-C3'	5.19	125.93	119.70
25	BB	1215	G	C5'-C4'-C3'	-5.19	107.70	116.00
25	BB	1779	U	C5'-C4'-O4'	5.19	115.33	109.10
25	BB	2643	G	O3'-P-O5'	-5.19	94.14	104.00
3	A1	23	C	C4'-C3'-C2'	-5.19	97.41	102.60
3	A1	513	C	C5-C4-N4	-5.19	116.57	120.20
3	A1	559	A	C6-C5-N7	5.19	135.93	132.30
3	A1	689	C	C5'-C4'-C3'	-5.19	107.70	116.00
3	A1	1047	G	C1'-O4'-C4'	5.19	114.05	109.90
3	A1	1401	G	C4'-C3'-C2'	-5.19	97.41	102.60
24	BA	19	C	C4-C5-C6	-5.19	114.81	117.40
25	BB	164	C	P-O5'-C5'	5.19	129.20	120.90
25	BB	465	G	N7-C8-N9	-5.19	110.51	113.10
25	BB	515	A	C5-N7-C8	-5.19	101.31	103.90
25	BB	855	G	C5'-C4'-C3'	-5.19	107.70	116.00
25	BB	1113	U	N1-C2-O2	5.19	126.43	122.80
25	BB	1129	A	O4'-C1'-C2'	-5.19	100.61	105.80
25	BB	1407	G	C3'-C2'-C1'	5.19	105.65	101.50
25	BB	1644	C	N3-C2-O2	-5.19	118.27	121.90
25	BB	2108	A	C1'-O4'-C4'	-5.19	105.75	109.90
25	BB	2557	G	C6-N1-C2	-5.19	121.99	125.10
32	BI	46	VAL	O-C-N	-5.19	114.40	122.70
38	BO	73	ASN	CB-CA-C	5.19	120.77	110.40
3	A1	492	C	C5'-C4'-O4'	5.19	115.32	109.10
3	A1	574	A	C4-C5-C6	-5.19	114.41	117.00
3	A1	797	C	O5'-P-OP1	5.19	116.92	110.70
3	A1	1145	A	N3-C4-C5	5.19	130.43	126.80
25	BB	838	C	C5'-C4'-C3'	-5.19	107.70	116.00
25	BB	930	G	C5-C6-O6	5.19	131.71	128.60
25	BB	1497	U	C5-C6-N1	-5.19	120.11	122.70
25	BB	2122	U	C5-C6-N1	-5.19	120.11	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2583	G	O4'-C4'-C3'	5.19	110.25	106.10
32	BI	88	ARG	NE-CZ-NH1	5.19	122.89	120.30
3	A1	57	G	N3-C4-C5	-5.18	126.01	128.60
3	A1	711	G	N9-C4-C5	5.18	107.47	105.40
3	A1	850	U	C6-N1-C2	-5.18	117.89	121.00
3	A1	945	G	C6-N1-C2	-5.18	121.99	125.10
3	A1	973	G	C5'-C4'-O4'	5.18	115.32	109.10
3	A1	1002	G	N3-C4-N9	-5.18	122.89	126.00
3	A1	1092	A	C6-N1-C2	-5.18	115.49	118.60
3	A1	1175	G	N9-C4-C5	5.18	107.47	105.40
3	A1	1252	A	C5-C6-N6	5.18	127.85	123.70
16	AQ	30	GLU	N-CA-CB	-5.18	101.27	110.60
17	AR	33	ILE	C-N-CA	5.18	134.66	121.70
24	BA	31	C	C6-N1-C2	5.18	122.37	120.30
25	BB	223	A	C4-C5-C6	-5.18	114.41	117.00
25	BB	596	U	C2-N3-C4	-5.18	123.89	127.00
25	BB	1245	G	P-O3'-C3'	5.18	125.92	119.70
25	BB	1388	G	C5-C6-O6	-5.18	125.49	128.60
25	BB	1419	A	N9-C4-C5	-5.18	103.73	105.80
25	BB	1529	G	C2-N3-C4	-5.18	109.31	111.90
25	BB	1621	U	N1-C2-O2	5.18	126.43	122.80
25	BB	1844	C	N1-C2-N3	5.18	122.83	119.20
25	BB	2379	G	C8-N9-C4	-5.18	104.33	106.40
25	BB	2562	U	C2-N3-C4	-5.18	123.89	127.00
25	BB	2569	G	N3-C4-C5	-5.18	126.01	128.60
25	BB	2834	G	C4'-C3'-C2'	-5.18	97.42	102.60
25	BB	2843	G	N3-C4-C5	-5.18	126.01	128.60
33	BJ	68	ALA	N-CA-CB	-5.18	102.84	110.10
51	B2	2	LYS	CA-CB-CG	5.18	124.81	113.40
1	AE	43	G	C5-C6-O6	5.18	131.71	128.60
3	A1	275	G	C1'-O4'-C4'	-5.18	105.75	109.90
3	A1	445	G	N3-C4-N9	5.18	129.11	126.00
3	A1	535	A	C4-C5-C6	-5.18	114.41	117.00
3	A1	564	C	N3-C4-N4	-5.18	114.37	118.00
3	A1	887	G	C2-N3-C4	-5.18	109.31	111.90
3	A1	889	A	C6-N1-C2	-5.18	115.49	118.60
3	A1	1226	C	N3-C4-N4	-5.18	114.37	118.00
24	BA	45	A	N1-C2-N3	-5.18	126.71	129.30
25	BB	521	U	N3-C4-C5	5.18	117.71	114.60
25	BB	556	A	C3'-C2'-C1'	5.18	105.65	101.50
25	BB	570	G	C2-N3-C4	5.18	114.49	111.90
25	BB	736	C	C5-C6-N1	-5.18	118.41	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	918	A	N3-C4-N9	-5.18	123.25	127.40
25	BB	1745	A	C1'-O4'-C4'	5.18	114.05	109.90
25	BB	1796	U	O4'-C4'-C3'	-5.18	98.82	104.00
25	BB	1943	U	P-O3'-C3'	5.18	125.92	119.70
25	BB	1947	C	O4'-C4'-C3'	5.18	110.25	106.10
25	BB	2066	C	C1'-O4'-C4'	-5.18	105.75	109.90
25	BB	2105	U	P-O3'-C3'	5.18	125.92	119.70
25	BB	2862	G	C2-N3-C4	5.18	114.49	111.90
3	A1	73	C	N3-C2-O2	-5.18	118.27	121.90
3	A1	488	C	N1-C1'-C2'	-5.18	106.30	112.00
3	A1	1475	G	C4-C5-N7	5.18	112.87	110.80
25	BB	333	G	C5-N7-C8	-5.18	101.71	104.30
25	BB	677	A	C4-C5-C6	-5.18	114.41	117.00
25	BB	746	U	C5'-C4'-C3'	-5.18	107.71	116.00
25	BB	1912	A	P-O5'-C5'	5.18	129.19	120.90
25	BB	2223	G	C5-C6-O6	-5.18	125.49	128.60
25	BB	2408	U	C6-N1-C2	-5.18	117.89	121.00
25	BB	2582	G	N1-C6-O6	-5.18	116.79	119.90
44	BU	42	VAL	C-N-CA	5.18	134.65	121.70
1	AA	45	G	C5'-C4'-O4'	5.18	115.32	109.10
1	AP	59	U	C2-N3-C4	-5.18	123.89	127.00
3	A1	106	C	C2-N3-C4	5.18	122.49	119.90
3	A1	127	G	C5-C6-N1	5.18	114.09	111.50
3	A1	275	G	C6-N1-C2	-5.18	121.99	125.10
3	A1	342	C	N3-C4-N4	-5.18	114.37	118.00
3	A1	413	G	C4'-C3'-O3'	5.18	123.36	113.00
3	A1	741	G	C5'-C4'-C3'	-5.18	107.71	116.00
3	A1	980	C	N3-C4-N4	-5.18	114.38	118.00
3	A1	1033	G	C6-C5-N7	5.18	133.51	130.40
3	A1	1214	C	C5-C6-N1	-5.18	118.41	121.00
3	A1	1521	C	C5-C6-N1	5.18	123.59	121.00
24	BA	96	G	C2-N3-C4	-5.18	109.31	111.90
25	BB	365	U	C2-N1-C1'	5.18	123.92	117.70
25	BB	375	G	N7-C8-N9	5.18	115.69	113.10
25	BB	823	C	O4'-C4'-C3'	-5.18	98.82	104.00
25	BB	1492	G	C5-C6-O6	5.18	131.71	128.60
25	BB	1766	G	C1'-O4'-C4'	5.18	114.04	109.90
25	BB	1898	U	O4'-C1'-C2'	-5.18	100.62	105.80
25	BB	1980	G	N7-C8-N9	-5.18	110.51	113.10
25	BB	2065	C	O5'-P-OP2	-5.18	101.04	105.70
3	A1	1173	U	C3'-C2'-C1'	-5.18	97.36	101.50
19	AT	59	TYR	CB-CG-CD1	-5.18	117.89	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	312	G	C5'-C4'-C3'	-5.18	107.72	116.00
25	BB	402	A	N3-C4-C5	-5.18	123.17	126.80
25	BB	863	A	C5-C6-N1	5.18	120.29	117.70
25	BB	1442	U	C5'-C4'-O4'	5.18	115.31	109.10
25	BB	1718	G	N9-C4-C5	-5.18	103.33	105.40
25	BB	1734	G	C3'-C2'-C1'	5.18	105.64	101.50
25	BB	2210	U	C4'-C3'-C2'	-5.18	97.42	102.60
25	BB	2776	A	C6-C5-N7	5.18	135.93	132.30
27	BD	60	ALA	CB-CA-C	5.18	117.87	110.10
29	BF	22	GLN	N-CA-CB	-5.18	101.28	110.60
1	AA	46	G	C8-N9-C4	-5.18	104.33	106.40
1	AP	46	G	N3-C2-N2	-5.18	116.28	119.90
1	AE	9	A	C5-C6-N1	5.18	120.29	117.70
1	AE	44	A	O4'-C1'-N9	5.18	112.34	108.20
3	A1	185	U	N1-C2-N3	5.18	118.00	114.90
3	A1	567	G	N3-C4-C5	-5.18	126.01	128.60
3	A1	715	A	N3-C4-C5	-5.18	123.18	126.80
3	A1	729	A	C6-C5-N7	5.18	135.92	132.30
3	A1	871	U	C5'-C4'-C3'	-5.18	107.72	116.00
3	A1	1356	G	N9-C4-C5	-5.18	103.33	105.40
3	A1	1433	A	N3-C4-C5	5.18	130.42	126.80
3	A1	1487	G	C5-C6-O6	5.18	131.71	128.60
3	A1	1517	G	N7-C8-N9	5.18	115.69	113.10
3	A1	1532	U	C2'-C3'-O3'	5.18	121.98	113.70
23	AX	90	LEU	O-C-N	-5.18	114.42	122.70
24	BA	41	G	C5'-C4'-O4'	5.18	115.31	109.10
24	BA	82	U	C5-C4-O4	-5.18	122.79	125.90
24	BA	88	C	N1-C2-O2	5.18	122.00	118.90
25	BB	60	G	N9-C4-C5	5.18	107.47	105.40
25	BB	453	A	O4'-C4'-C3'	-5.18	98.82	104.00
25	BB	518	G	P-O3'-C3'	5.18	125.91	119.70
25	BB	1416	G	N1-C2-N2	-5.18	111.54	116.20
25	BB	1439	A	C4-C5-N7	-5.18	108.11	110.70
25	BB	1469	A	N7-C8-N9	-5.18	111.21	113.80
25	BB	1702	G	C5-C6-N1	5.18	114.09	111.50
25	BB	1717	A	C6-C5-N7	5.18	135.92	132.30
25	BB	1741	C	C5'-C4'-C3'	-5.18	107.72	116.00
25	BB	1930	G	N3-C4-C5	-5.18	126.01	128.60
25	BB	1941	C	C4'-C3'-C2'	5.18	107.78	102.60
25	BB	2117	A	N9-C1'-C2'	-5.18	106.31	112.00
25	BB	2121	G	N9-C1'-C2'	-5.18	106.31	112.00
25	BB	2191	A	N9-C4-C5	5.18	107.87	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2510	C	C5'-C4'-O4'	5.18	115.31	109.10
25	BB	2747	G	N7-C8-N9	-5.18	110.51	113.10
52	B3	105	SER	CB-CA-C	-5.18	100.27	110.10
1	AP	62	A	N9-C4-C5	5.17	107.87	105.80
3	A1	277	C	C4-C5-C6	5.17	119.99	117.40
3	A1	1074	G	N1-C2-N2	-5.17	111.54	116.20
25	BB	23	G	N1-C6-O6	-5.17	116.80	119.90
25	BB	300	A	C5-N7-C8	-5.17	101.31	103.90
25	BB	496	G	C4-C5-C6	5.17	121.91	118.80
25	BB	505	A	P-O3'-C3'	5.17	125.91	119.70
25	BB	667	U	C5'-C4'-O4'	5.17	115.31	109.10
25	BB	1602	U	C6-N1-C2	5.17	124.11	121.00
25	BB	1637	A	C5-N7-C8	-5.17	101.31	103.90
25	BB	1688	U	C4-C5-C6	5.17	122.81	119.70
25	BB	1778	U	N3-C4-C5	-5.17	111.50	114.60
25	BB	1887	C	C2-N3-C4	-5.17	117.31	119.90
25	BB	2004	G	C5-C6-N1	5.17	114.09	111.50
25	BB	2116	G	N1-C2-N2	-5.17	111.54	116.20
25	BB	2811	G	N1-C2-N3	5.17	127.00	123.90
47	BX	18	LYS	N-CA-CB	-5.17	101.28	110.60
25	BB	82	U	C1'-O4'-C4'	-5.17	105.76	109.90
25	BB	140	C	O5'-C5'-C4'	5.17	121.53	111.70
25	BB	307	G	C6-C5-N7	5.17	133.50	130.40
25	BB	743	A	C1'-C2'-O2'	-5.17	95.08	110.60
25	BB	884	U	O4'-C1'-C2'	5.17	112.26	107.60
25	BB	1429	G	O5'-C5'-C4'	5.17	121.53	111.70
25	BB	1504	A	C5'-C4'-O4'	5.17	115.31	109.10
25	BB	2328	A	O5'-P-OP1	-5.17	101.04	105.70
29	BF	130	PHE	CG-CD2-CE2	-5.17	115.11	120.80
31	BH	27	VAL	CA-CB-CG2	5.17	118.66	110.90
1	AE	35	A	C5-C6-N6	5.17	127.84	123.70
3	A1	7	A	N9-C1'-C2'	5.17	120.72	114.00
3	A1	57	G	C8-N9-C4	-5.17	104.33	106.40
3	A1	81	A	C6-C5-N7	5.17	135.92	132.30
3	A1	139	A	N7-C8-N9	5.17	116.39	113.80
3	A1	281	G	C5-C6-O6	5.17	131.70	128.60
3	A1	420	U	C2-N1-C1'	-5.17	111.50	117.70
3	A1	534	U	C5'-C4'-C3'	-5.17	107.73	116.00
3	A1	650	G	N3-C4-C5	-5.17	126.02	128.60
3	A1	802	A	C4-C5-N7	5.17	113.29	110.70
3	A1	1160	G	P-O3'-C3'	5.17	125.91	119.70
3	A1	1173	U	C6-N1-C2	5.17	124.10	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
17	AR	116	LEU	CB-CG-CD1	5.17	119.79	111.00
25	BB	748	G	C6-C5-N7	-5.17	127.30	130.40
25	BB	935	C	C2-N3-C4	-5.17	117.31	119.90
25	BB	1339	G	N1-C2-N3	5.17	127.00	123.90
25	BB	1753	G	C6-C5-N7	5.17	133.50	130.40
25	BB	2106	U	N1-C2-N3	-5.17	111.80	114.90
25	BB	2607	G	C8-N9-C1'	5.17	133.72	127.00
25	BB	2647	U	N3-C2-O2	-5.17	118.58	122.20
25	BB	2848	G	C4-C5-N7	-5.17	108.73	110.80
25	BB	926	G	C2-N3-C4	5.17	114.48	111.90
3	A1	595	A	C5-C6-N6	5.17	127.83	123.70
3	A1	655	A	C6-C5-N7	5.17	135.92	132.30
3	A1	761	G	N3-C4-C5	-5.17	126.02	128.60
3	A1	916	U	C4-C5-C6	5.17	122.80	119.70
3	A1	1105	A	C5'-C4'-C3'	-5.17	107.73	116.00
3	A1	1261	A	C5-C6-N1	5.17	120.28	117.70
25	BB	31	C	C5-C6-N1	-5.17	118.42	121.00
25	BB	304	U	N1-C2-O2	5.17	126.42	122.80
25	BB	454	A	C6-C5-N7	5.17	135.92	132.30
25	BB	781	A	C5'-C4'-O4'	5.17	115.30	109.10
25	BB	924	G	C3'-C2'-C1'	-5.17	97.36	101.50
25	BB	1019	U	N1-C1'-C2'	-5.17	106.32	112.00
25	BB	1034	G	C8-N9-C4	-5.17	104.33	106.40
25	BB	1141	U	C5-C6-N1	-5.17	120.12	122.70
25	BB	1554	U	O4'-C1'-C2'	-5.17	100.63	105.80
25	BB	1915	U	O4'-C1'-N1	5.17	112.33	108.20
25	BB	1922	G	C5'-C4'-O4'	5.17	115.30	109.10
25	BB	2040	G	C5'-C4'-C3'	-5.17	107.73	116.00
25	BB	2494	G	N7-C8-N9	5.17	115.68	113.10
25	BB	2806	C	O4'-C4'-C3'	-5.17	98.83	104.00
32	BI	20	ARG	NH1-CZ-NH2	-5.17	113.72	119.40
38	BO	23	LYS	C-N-CA	5.17	134.62	121.70
1	AP	23	A	N1-C2-N3	-5.17	126.72	129.30
1	AP	60	C	C3'-C2'-C1'	5.17	105.63	101.50
3	A1	220	G	C5-C6-N1	-5.17	108.92	111.50
3	A1	320	A	N1-C2-N3	-5.17	126.72	129.30
3	A1	356	A	C5-C6-N1	5.17	120.28	117.70
3	A1	393	A	P-O3'-C3'	5.17	125.90	119.70
3	A1	415	A	N1-C2-N3	5.17	131.88	129.30
3	A1	674	G	C3'-C2'-C1'	5.17	105.63	101.50
3	A1	750	C	C5-C4-N4	-5.17	116.58	120.20
3	A1	1050	G	N1-C6-O6	-5.17	116.80	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1524	C	N3-C4-C5	5.17	123.97	121.90
25	BB	361	G	O4'-C1'-N9	5.17	112.33	108.20
25	BB	435	C	C2-N3-C4	5.17	122.48	119.90
25	BB	708	G	N1-C6-O6	-5.17	116.80	119.90
25	BB	957	C	C4'-C3'-C2'	-5.17	97.43	102.60
25	BB	1060	U	N3-C4-O4	5.17	123.02	119.40
25	BB	1509	A	N9-C4-C5	5.17	107.87	105.80
25	BB	1717	A	C2'-C3'-O3'	5.17	121.97	113.70
25	BB	1835	G	N3-C4-N9	5.17	129.10	126.00
25	BB	1861	G	N3-C2-N2	-5.17	116.28	119.90
25	BB	2199	A	C6-C5-N7	5.17	135.92	132.30
25	BB	2589	A	N9-C4-C5	5.17	107.87	105.80
25	BB	2678	C	C1'-O4'-C4'	-5.17	105.77	109.90
25	BB	2711	A	N9-C1'-C2'	-5.17	106.32	112.00
25	BB	2731	G	C8-N9-C4	-5.17	104.33	106.40
1	AE	76	A	C4-C5-N7	-5.17	108.12	110.70
3	A1	342	C	C6-N1-C2	-5.17	118.23	120.30
3	A1	692	U	N1-C2-N3	5.17	118.00	114.90
3	A1	855	U	O4'-C1'-N1	5.17	112.33	108.20
24	BA	13	G	N1-C6-O6	-5.17	116.80	119.90
24	BA	91	C	C3'-C2'-C1'	5.17	105.63	101.50
25	BB	894	U	P-O3'-C3'	-5.17	113.50	119.70
25	BB	1349	C	C5'-C4'-O4'	5.17	115.30	109.10
25	BB	1887	C	C4'-C3'-C2'	-5.17	97.44	102.60
25	BB	2291	U	C5'-C4'-O4'	5.17	115.30	109.10
50	B1	36	ALA	CB-CA-C	5.17	117.85	110.10
1	AE	76	A	C4'-C3'-C2'	5.16	107.76	102.60
2	AM	3	U	N1-C2-O2	-5.16	119.19	122.80
3	A1	592	G	N1-C6-O6	-5.16	116.80	119.90
3	A1	727	G	N1-C6-O6	-5.16	116.80	119.90
3	A1	850	U	C4-C5-C6	5.16	122.80	119.70
3	A1	1078	U	C4-C5-C6	5.16	122.80	119.70
3	A1	1260	G	N3-C4-C5	-5.16	126.02	128.60
3	A1	1344	C	C4'-C3'-C2'	-5.16	97.44	102.60
20	AU	61	PHE	CB-CG-CD1	-5.16	117.19	120.80
24	BA	40	U	P-O3'-C3'	5.16	125.90	119.70
25	BB	177	G	N9-C1'-C2'	-5.16	106.32	112.00
25	BB	434	U	C4'-C3'-O3'	-5.16	98.56	109.40
25	BB	926	G	C5-N7-C8	-5.16	101.72	104.30
25	BB	1271	G	N1-C2-N3	5.16	127.00	123.90
25	BB	1326	U	C5-C4-O4	-5.16	122.80	125.90
25	BB	1773	A	C4-C5-C6	5.16	119.58	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2143	C	O4'-C1'-N1	5.16	112.33	108.20
33	BJ	86	SER	CB-CA-C	-5.16	100.29	110.10
35	BL	76	VAL	CA-CB-CG1	5.16	118.64	110.90
54	B5	51	GLY	CA-C-O	-5.16	111.31	120.60
3	A1	446	G	N9-C1'-C2'	-5.16	106.32	112.00
3	A1	751	U	C6-N1-C2	-5.16	117.90	121.00
25	BB	835	C	C2'-C3'-O3'	5.16	121.96	113.70
25	BB	1701	A	O4'-C1'-C2'	5.16	112.25	107.60
25	BB	2571	U	O5'-C5'-C4'	5.16	121.51	111.70
25	BB	2810	A	C5-C6-N6	5.16	127.83	123.70
25	BB	2900	A	N9-C4-C5	5.16	107.86	105.80
3	A1	27	G	C5-N7-C8	-5.16	101.72	104.30
3	A1	139	A	C6-N1-C2	-5.16	115.50	118.60
3	A1	318	G	N3-C4-N9	-5.16	122.90	126.00
3	A1	524	G	N7-C8-N9	-5.16	110.52	113.10
3	A1	1004	A	C4-C5-N7	5.16	113.28	110.70
3	A1	1181	G	C5'-C4'-C3'	-5.16	107.74	116.00
3	A1	1347	G	N1-C2-N2	-5.16	111.56	116.20
24	BA	51	G	C6-C5-N7	5.16	133.50	130.40
25	BB	6	A	C1'-O4'-C4'	-5.16	105.77	109.90
25	BB	32	C	C5'-C4'-O4'	5.16	115.29	109.10
25	BB	346	A	N3-C4-N9	-5.16	123.27	127.40
25	BB	1468	U	N1-C2-N3	5.16	118.00	114.90
25	BB	1767	G	C5-C6-O6	5.16	131.70	128.60
25	BB	1893	C	N1-C1'-C2'	5.16	120.71	114.00
25	BB	2143	C	C4'-C3'-C2'	-5.16	97.44	102.60
25	BB	2385	C	C3'-C2'-C1'	5.16	105.63	101.50
50	B1	16	GLU	C-N-CA	5.16	134.60	121.70
3	A1	27	G	C5-C6-O6	5.16	131.69	128.60
3	A1	174	A	C8-N9-C4	-5.16	103.74	105.80
3	A1	686	U	C5'-C4'-C3'	-5.16	107.75	116.00
3	A1	834	U	C5'-C4'-C3'	-5.16	107.75	116.00
3	A1	1178	G	O4'-C1'-N9	5.16	112.33	108.20
3	A1	1188	A	C1'-O4'-C4'	-5.16	105.77	109.90
11	AJ	72	TRP	N-CA-CB	-5.16	101.31	110.60
17	AR	80	ARG	NH1-CZ-NH2	-5.16	113.73	119.40
25	BB	250	G	O4'-C1'-N9	-5.16	104.07	108.20
25	BB	589	U	P-O3'-C3'	5.16	125.89	119.70
25	BB	704	G	C2-N3-C4	-5.16	109.32	111.90
25	BB	1257	C	P-O5'-C5'	-5.16	112.65	120.90
25	BB	1534	U	C2-N3-C4	5.16	130.09	127.00
25	BB	1767	G	O4'-C1'-N9	5.16	112.33	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2016	U	C5-C4-O4	5.16	129.00	125.90
25	BB	2220	U	C3'-C2'-C1'	5.16	105.63	101.50
25	BB	2653	U	P-O3'-C3'	5.16	125.89	119.70
25	BB	2689	U	P-O3'-C3'	5.16	125.89	119.70
30	BG	98	LEU	C-N-CA	5.16	134.59	121.70
41	BR	36	GLU	N-CA-CB	-5.16	101.31	110.60
3	A1	263	A	C4'-C3'-C2'	-5.16	97.44	102.60
3	A1	666	G	C5'-C4'-C3'	-5.16	107.75	116.00
3	A1	1246	A	N9-C4-C5	-5.16	103.74	105.80
24	BA	33	G	N7-C8-N9	5.16	115.68	113.10
25	BB	361	G	N1-C2-N3	5.16	126.99	123.90
25	BB	560	C	C4'-C3'-C2'	-5.16	97.44	102.60
25	BB	760	G	O4'-C1'-C2'	-5.16	100.64	105.80
25	BB	1085	A	C6-C5-N7	5.16	135.91	132.30
25	BB	1485	U	C6-N1-C2	-5.16	117.91	121.00
25	BB	1487	U	C4'-C3'-C2'	-5.16	97.44	102.60
25	BB	2087	G	C6-N1-C2	-5.16	122.01	125.10
25	BB	2625	G	C6-N1-C2	-5.16	122.01	125.10
28	BE	101	ILE	CB-CA-C	5.16	121.92	111.60
48	BY	99	GLU	OE1-CD-OE2	-5.16	117.11	123.30
3	A1	378	G	C5-C6-N1	5.16	114.08	111.50
3	A1	602	A	C8-N9-C4	-5.16	103.74	105.80
3	A1	676	A	N1-C2-N3	5.16	131.88	129.30
3	A1	714	G	C5-C6-O6	5.16	131.69	128.60
3	A1	893	C	N1-C2-N3	5.16	122.81	119.20
3	A1	1041	G	O4'-C1'-N9	5.16	112.32	108.20
3	A1	1301	U	C5-C4-O4	-5.16	122.81	125.90
3	A1	1433	A	C4-C5-N7	5.16	113.28	110.70
17	AR	3	TYR	CD1-CG-CD2	5.16	123.57	117.90
25	BB	14	A	C5'-C4'-C3'	-5.16	107.75	116.00
25	BB	729	G	C5-C6-O6	5.16	131.69	128.60
25	BB	922	C	C6-N1-C2	5.16	122.36	120.30
25	BB	981	A	C6-N1-C2	-5.16	115.51	118.60
25	BB	1342	A	C2-N3-C4	5.16	113.18	110.60
25	BB	2071	A	C6-C5-N7	5.16	135.91	132.30
25	BB	2640	G	O3'-P-O5'	-5.16	94.21	104.00
30	BG	94	TYR	CD1-CE1-CZ	-5.16	115.16	119.80
50	B1	142	ALA	N-CA-C	5.16	124.92	111.00
54	B5	133	ARG	NH1-CZ-NH2	-5.16	113.73	119.40
3	A1	58	C	C2-N1-C1'	-5.15	113.13	118.80
3	A1	156	C	N1-C2-O2	5.15	121.99	118.90
3	A1	1367	C	N1-C1'-C2'	-5.15	106.33	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1453	G	C6-C5-N7	5.15	133.49	130.40
3	A1	1532	U	C4-C5-C6	5.15	122.79	119.70
25	BB	2	G	N1-C2-N3	5.15	126.99	123.90
25	BB	222	A	N1-C2-N3	-5.15	126.72	129.30
25	BB	365	U	C1'-O4'-C4'	5.15	114.02	109.90
25	BB	1155	A	C5-C6-N6	5.15	127.82	123.70
25	BB	1477	A	O4'-C4'-C3'	5.15	110.22	106.10
25	BB	2057	G	C2-N3-C4	5.15	114.48	111.90
25	BB	2252	G	N7-C8-N9	5.15	115.68	113.10
25	BB	2599	G	C6-C5-N7	5.15	133.49	130.40
25	BB	2757	A	N7-C8-N9	5.15	116.38	113.80
1	AP	20	G	C5-N7-C8	-5.15	101.72	104.30
1	AP	49	C	C4'-C3'-C2'	-5.15	97.45	102.60
1	AE	58	A	C2-N3-C4	5.15	113.18	110.60
3	A1	41	G	N1-C2-N3	-5.15	120.81	123.90
3	A1	530	G	C1'-O4'-C4'	-5.15	105.78	109.90
3	A1	706	A	N9-C4-C5	-5.15	103.74	105.80
3	A1	1467	C	C5-C6-N1	-5.15	118.42	121.00
3	A1	1512	U	C4'-C3'-C2'	-5.15	97.45	102.60
25	BB	79	C	N1-C2-N3	5.15	122.81	119.20
25	BB	396	G	N7-C8-N9	5.15	115.68	113.10
25	BB	604	G	C4'-C3'-C2'	-5.15	97.45	102.60
25	BB	923	G	N3-C4-C5	-5.15	126.02	128.60
25	BB	956	G	C8-N9-C1'	5.15	133.70	127.00
25	BB	1179	G	C4-C5-N7	-5.15	108.74	110.80
25	BB	1204	A	N1-C2-N3	-5.15	126.72	129.30
25	BB	1359	A	C6-C5-N7	5.15	135.91	132.30
25	BB	1418	G	C4'-C3'-C2'	-5.15	97.45	102.60
25	BB	1633	G	N1-C6-O6	-5.15	116.81	119.90
25	BB	2245	U	C2-N3-C4	-5.15	123.91	127.00
25	BB	2250	G	P-O3'-C3'	5.15	125.88	119.70
25	BB	2277	G	P-O3'-C3'	5.15	125.88	119.70
33	BJ	2	ARG	NE-CZ-NH2	5.15	122.88	120.30
55	B6	24	THR	C-N-CA	5.15	134.58	121.70
1	AP	57	G	C4-C5-N7	-5.15	108.74	110.80
1	AE	50	U	C5-C4-O4	-5.15	122.81	125.90
3	A1	281	G	C4-C5-N7	5.15	112.86	110.80
3	A1	741	G	N3-C4-C5	-5.15	126.02	128.60
3	A1	743	A	O3'-P-O5'	-5.15	94.22	104.00
3	A1	884	U	C6-N1-C2	-5.15	117.91	121.00
3	A1	887	G	N7-C8-N9	5.15	115.67	113.10
3	A1	1160	G	N1-C6-O6	-5.15	116.81	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	BA	20	G	C4'-C3'-C2'	-5.15	97.45	102.60
24	BA	76	G	OP2-P-O3'	5.15	116.53	105.20
25	BB	68	G	N3-C2-N2	5.15	123.50	119.90
25	BB	227	A	P-O3'-C3'	5.15	125.88	119.70
25	BB	1098	A	C6-C5-N7	5.15	135.91	132.30
25	BB	1214	A	C6-C5-N7	5.15	135.91	132.30
25	BB	1801	A	C4'-C3'-C2'	-5.15	97.45	102.60
25	BB	1812	U	C5-C6-N1	-5.15	120.12	122.70
25	BB	1957	C	C5-C6-N1	-5.15	118.42	121.00
25	BB	2206	C	N1-C2-O2	5.15	121.99	118.90
25	BB	2409	G	N1-C2-N3	5.15	126.99	123.90
25	BB	2438	U	C4-C5-C6	5.15	122.79	119.70
25	BB	2450	A	N1-C6-N6	-5.15	115.51	118.60
25	BB	2501	C	C4-C5-C6	5.15	119.97	117.40
25	BB	2654	A	C4-C5-C6	-5.15	114.42	117.00
25	BB	2780	G	N3-C4-C5	-5.15	126.03	128.60
1	AP	2	C	N3-C4-N4	-5.15	114.40	118.00
3	A1	431	A	OP1-P-OP2	-5.15	111.88	119.60
3	A1	1054	C	O5'-C5'-C4'	5.15	121.48	111.70
25	BB	99	U	C2-N3-C4	-5.15	123.91	127.00
25	BB	327	G	C6-N1-C2	-5.15	122.01	125.10
25	BB	535	G	O4'-C1'-N9	5.15	112.32	108.20
25	BB	697	G	N7-C8-N9	-5.15	110.53	113.10
25	BB	1238	G	O5'-P-OP1	-5.15	101.07	105.70
25	BB	1410	G	C8-N9-C4	5.15	108.46	106.40
25	BB	1808	A	N3-C4-C5	5.15	130.40	126.80
1	AP	20	G	N3-C4-N9	-5.15	122.91	126.00
1	AE	4	G	N7-C8-N9	5.15	115.67	113.10
3	A1	644	U	P-O3'-C3'	-5.15	113.52	119.70
3	A1	663	A	C5'-C4'-O4'	5.15	115.28	109.10
3	A1	760	G	C5'-C4'-C3'	-5.15	107.77	116.00
3	A1	786	G	C6-N1-C2	-5.15	122.01	125.10
3	A1	953	G	C4-N9-C1'	-5.15	119.81	126.50
3	A1	963	G	N9-C1'-C2'	-5.15	106.34	112.00
3	A1	1046	A	C4-C5-C6	-5.15	114.43	117.00
3	A1	1135	U	O4'-C1'-C2'	5.15	112.23	107.60
3	A1	1222	G	C5-N7-C8	-5.15	101.73	104.30
3	A1	1228	C	C3'-C2'-C1'	5.15	105.62	101.50
25	BB	222	A	C6-N1-C2	-5.15	115.51	118.60
25	BB	424	G	N1-C6-O6	-5.15	116.81	119.90
25	BB	760	G	C4-C5-N7	-5.15	108.74	110.80
25	BB	786	C	N3-C4-N4	-5.15	114.40	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1417	C	C5-C6-N1	-5.15	118.43	121.00
25	BB	1430	G	O4'-C1'-N9	5.15	112.32	108.20
25	BB	1721	G	C6-N1-C2	-5.15	122.01	125.10
25	BB	2007	U	C2-N3-C4	-5.15	123.91	127.00
25	BB	2288	A	O4'-C1'-C2'	-5.15	100.65	105.80
25	BB	2415	G	N1-C2-N2	-5.15	111.57	116.20
25	BB	2506	U	C4'-C3'-O3'	5.15	123.30	113.00
25	BB	2549	G	N3-C2-N2	-5.15	116.30	119.90
25	BB	2625	G	O4'-C4'-C3'	5.15	110.22	106.10
25	BB	2763	G	N1-C2-N2	-5.15	111.57	116.20
25	BB	2767	C	N3-C2-O2	-5.15	118.30	121.90
25	BB	2849	U	O3'-P-O5'	-5.15	94.22	104.00
51	B2	132	ARG	NE-CZ-NH2	5.15	122.87	120.30
1	AP	24	G	C6-N1-C2	-5.15	122.01	125.10
3	A1	1219	A	C5-C6-N6	5.15	127.82	123.70
3	A1	1480	A	O4'-C4'-C3'	5.15	110.22	106.10
3	A1	1533	C	C1'-O4'-C4'	-5.15	105.78	109.90
25	BB	170	U	O4'-C1'-C2'	5.15	112.23	107.60
25	BB	288	U	C2-N3-C4	-5.15	123.91	127.00
25	BB	490	C	C4-C5-C6	-5.15	114.83	117.40
25	BB	492	A	N3-C4-N9	5.15	131.52	127.40
25	BB	716	A	O4'-C4'-C3'	5.15	110.22	106.10
25	BB	1962	C	N1-C2-N3	5.15	122.80	119.20
25	BB	2473	U	C5-C6-N1	5.15	125.27	122.70
26	BC	23	ALA	N-CA-CB	-5.15	102.90	110.10
1	AE	74	C	C5-C4-N4	5.14	123.80	120.20
3	A1	347	G	N3-C2-N2	-5.14	116.30	119.90
3	A1	808	C	C6-N1-C2	-5.14	118.24	120.30
3	A1	1266	G	N3-C4-C5	5.14	131.17	128.60
3	A1	1287	A	O5'-P-OP2	-5.14	101.07	105.70
3	A1	1394	A	C3'-C2'-C1'	-5.14	97.39	101.50
12	AK	54	LEU	CB-CA-C	5.14	119.97	110.20
25	BB	81	G	N3-C4-C5	-5.14	126.03	128.60
25	BB	322	A	O4'-C4'-C3'	5.14	110.22	106.10
25	BB	589	U	C5-C4-O4	5.14	128.99	125.90
25	BB	714	U	C2-N3-C4	-5.14	123.91	127.00
25	BB	791	C	N1-C2-N3	5.14	122.80	119.20
25	BB	856	G	C8-N9-C4	-5.14	104.34	106.40
25	BB	989	G	C8-N9-C4	-5.14	104.34	106.40
25	BB	1087	G	C1'-O4'-C4'	5.14	114.02	109.90
25	BB	1348	C	C5'-C4'-C3'	-5.14	107.77	116.00
25	BB	1400	U	N3-C4-O4	5.14	123.00	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1783	A	C8-N9-C4	5.14	107.86	105.80
25	BB	2112	G	N7-C8-N9	5.14	115.67	113.10
25	BB	2124	G	C6-C5-N7	5.14	133.49	130.40
25	BB	2508	G	C3'-C2'-C1'	-5.14	97.39	101.50
25	BB	2551	C	C5'-C4'-O4'	-5.14	102.93	109.10
25	BB	2565	A	O4'-C1'-N9	-5.14	104.08	108.20
25	BB	2821	A	C5'-C4'-O4'	5.14	115.27	109.10
25	BB	2875	C	C6-N1-C2	-5.14	118.24	120.30
25	BB	2879	A	C6-C5-N7	5.14	135.90	132.30
1	AA	40	C	O3'-P-O5'	-5.14	94.23	104.00
1	AP	32	C	C3'-C2'-C1'	5.14	105.61	101.50
3	A1	62	U	N3-C4-C5	-5.14	111.52	114.60
3	A1	253	A	C5-C6-N1	5.14	120.27	117.70
3	A1	551	U	C2-N1-C1'	5.14	123.87	117.70
3	A1	639	G	O4'-C1'-N9	-5.14	104.09	108.20
3	A1	903	G	C4-C5-N7	-5.14	108.74	110.80
3	A1	903	G	N1-C2-N3	5.14	126.99	123.90
3	A1	940	C	C5'-C4'-C3'	-5.14	107.77	116.00
3	A1	1012	A	N1-C2-N3	-5.14	126.73	129.30
3	A1	1203	C	N3-C2-O2	-5.14	118.30	121.90
3	A1	1464	U	N1-C2-N3	5.14	117.98	114.90
15	AO	138	GLN	CB-CA-C	5.14	120.69	110.40
17	AR	34	GLU	OE1-CD-OE2	-5.14	117.13	123.30
21	AV	2	MET	CG-SD-CE	5.14	108.43	100.20
25	BB	69	C	N3-C2-O2	-5.14	118.30	121.90
25	BB	296	U	O3'-P-O5'	5.14	113.77	104.00
25	BB	326	G	C4'-C3'-C2'	-5.14	97.46	102.60
25	BB	473	G	C6-C5-N7	5.14	133.49	130.40
25	BB	543	G	C4-C5-N7	-5.14	108.74	110.80
25	BB	1613	G	N7-C8-N9	5.14	115.67	113.10
25	BB	2057	G	C8-N9-C1'	5.14	133.69	127.00
25	BB	2360	G	C4-N9-C1'	-5.14	119.81	126.50
3	A1	811	C	P-O3'-C3'	5.14	125.87	119.70
3	A1	925	G	O5'-P-OP2	-5.14	101.07	105.70
3	A1	1077	G	N9-C4-C5	5.14	107.46	105.40
4	AB	22	TRP	CA-CB-CG	5.14	123.47	113.70
25	BB	520	G	N3-C4-C5	-5.14	126.03	128.60
25	BB	536	G	C2-N3-C4	-5.14	109.33	111.90
25	BB	717	C	N1-C2-O2	5.14	121.98	118.90
25	BB	1362	C	C1'-O4'-C4'	-5.14	105.79	109.90
25	BB	1690	A	C5-N7-C8	-5.14	101.33	103.90
25	BB	1728	C	O4'-C1'-C2'	-5.14	100.66	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2513	A	N7-C8-N9	-5.14	111.23	113.80
1	AA	48	C	N3-C2-O2	-5.14	118.30	121.90
1	AP	47	U	N1-C1'-C2'	-5.14	106.35	112.00
1	AE	61	C	C5'-C4'-C3'	-5.14	107.78	116.00
3	A1	146	G	C6-C5-N7	5.14	133.48	130.40
3	A1	516	U	C5-C6-N1	-5.14	120.13	122.70
3	A1	624	C	OP1-P-O3'	5.14	116.51	105.20
3	A1	768	A	C8-N9-C4	-5.14	103.75	105.80
3	A1	853	C	N1-C2-N3	5.14	122.80	119.20
3	A1	922	G	P-O3'-C3'	5.14	125.87	119.70
3	A1	983	A	N3-C4-N9	-5.14	123.29	127.40
3	A1	1072	G	O4'-C1'-N9	-5.14	104.09	108.20
3	A1	1248	A	C5'-C4'-O4'	5.14	115.27	109.10
24	BA	87	U	N3-C2-O2	-5.14	118.60	122.20
25	BB	568	U	C4-C5-C6	5.14	122.78	119.70
25	BB	931	U	N3-C4-C5	-5.14	111.52	114.60
25	BB	938	G	C8-N9-C1'	5.14	133.68	127.00
25	BB	1139	G	N3-C2-N2	-5.14	116.30	119.90
25	BB	1368	G	N9-C4-C5	-5.14	103.34	105.40
25	BB	1643	G	C5-N7-C8	-5.14	101.73	104.30
25	BB	2575	C	C1'-O4'-C4'	-5.14	105.79	109.90
28	BE	27	LEU	CB-CG-CD1	5.14	119.74	111.00
34	BK	21	ARG	NH1-CZ-NH2	-5.14	113.75	119.40
37	BN	268	ARG	CD-NE-CZ	5.14	130.80	123.60
40	BQ	52	ARG	CD-NE-CZ	5.14	130.79	123.60
1	AP	23	A	C2-N3-C4	5.14	113.17	110.60
3	A1	1288	A	C4-C5-C6	-5.14	114.43	117.00
25	BB	154	U	C6-N1-C2	-5.14	117.92	121.00
25	BB	705	A	C6-N1-C2	-5.14	115.52	118.60
25	BB	1274	A	C5'-C4'-C3'	-5.14	107.78	116.00
25	BB	2795	C	N3-C4-C5	5.14	123.95	121.90
3	A1	152	A	C8-N9-C4	-5.14	103.75	105.80
3	A1	438	U	C4-C5-C6	5.14	122.78	119.70
3	A1	578	C	C6-N1-C2	-5.14	118.25	120.30
3	A1	836	G	N3-C4-C5	-5.14	126.03	128.60
3	A1	966	G	C8-N9-C1'	5.14	133.68	127.00
24	BA	46	A	P-O5'-C5'	5.14	129.12	120.90
25	BB	313	G	N1-C2-N3	-5.14	120.82	123.90
25	BB	783	A	N3-C4-C5	-5.14	123.20	126.80
25	BB	794	A	C6-C5-N7	5.14	135.90	132.30
25	BB	912	C	C4'-C3'-C2'	-5.14	97.46	102.60
25	BB	929	U	N1-C1'-C2'	-5.14	106.35	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	988	A	C5'-C4'-C3'	-5.14	107.78	116.00
25	BB	1125	G	N3-C4-C5	-5.14	126.03	128.60
25	BB	1400	U	C5'-C4'-O4'	5.14	115.26	109.10
25	BB	1764	C	C5-C4-N4	-5.14	116.60	120.20
25	BB	1873	G	O5'-C5'-C4'	-5.14	101.94	111.70
25	BB	2094	A	C2-N3-C4	-5.14	108.03	110.60
25	BB	2299	U	C3'-C2'-C1'	5.14	105.61	101.50
25	BB	2312	U	O3'-P-O5'	-5.14	94.24	104.00
25	BB	2522	U	C5'-C4'-O4'	5.14	115.26	109.10
25	BB	2560	A	C4'-C3'-C2'	-5.14	97.46	102.60
25	BB	2701	U	C6-N1-C1'	5.14	128.39	121.20
25	BB	2708	G	N9-C4-C5	5.14	107.45	105.40
25	BB	2733	A	C4-C5-N7	-5.14	108.13	110.70
30	BG	17	ARG	NE-CZ-NH1	5.14	122.87	120.30
41	BR	24	LEU	CB-CG-CD2	5.14	119.73	111.00
1	AE	19	G	O4'-C1'-C2'	-5.13	100.67	105.80
3	A1	65	A	N9-C1'-C2'	-5.13	106.35	112.00
3	A1	261	U	P-O3'-C3'	-5.13	113.54	119.70
3	A1	304	U	C1'-O4'-C4'	-5.13	105.79	109.90
3	A1	422	C	O4'-C4'-C3'	5.13	110.21	106.10
3	A1	909	A	N3-C4-C5	-5.13	123.20	126.80
3	A1	1243	C	C2-N3-C4	-5.13	117.33	119.90
3	A1	1511	G	N9-C4-C5	5.13	107.45	105.40
25	BB	60	G	C6-N1-C2	-5.13	122.02	125.10
25	BB	474	G	C4'-C3'-C2'	-5.13	97.47	102.60
25	BB	802	A	C4'-C3'-C2'	-5.13	97.47	102.60
25	BB	1028	A	C1'-O4'-C4'	-5.13	105.79	109.90
25	BB	1929	G	N1-C2-N3	5.13	126.98	123.90
25	BB	2088	A	C4-C5-N7	5.13	113.27	110.70
25	BB	2254	C	C5-C6-N1	5.13	123.57	121.00
25	BB	2454	G	O4'-C1'-N9	5.13	112.31	108.20
25	BB	2670	A	N3-C4-N9	-5.13	123.29	127.40
25	BB	2718	G	P-O3'-C3'	5.13	125.86	119.70
25	BB	2832	U	O4'-C1'-N1	5.13	112.31	108.20
1	AP	36	A	C1'-O4'-C4'	-5.13	105.79	109.90
1	AE	60	C	C5-C4-N4	-5.13	116.61	120.20
3	A1	999	C	P-O5'-C5'	5.13	129.11	120.90
3	A1	1345	U	C5-C6-N1	5.13	125.27	122.70
25	BB	172	A	N9-C4-C5	-5.13	103.75	105.80
25	BB	270	A	C5-C6-N6	-5.13	119.59	123.70
25	BB	935	C	C5-C6-N1	-5.13	118.43	121.00
25	BB	981	A	N1-C2-N3	-5.13	126.73	129.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1873	G	C8-N9-C4	-5.13	104.35	106.40
25	BB	2240	U	C2'-C3'-O3'	5.13	121.91	113.70
25	BB	2396	G	O5'-P-OP1	-5.13	101.08	105.70
25	BB	2876	G	C4'-C3'-C2'	-5.13	97.47	102.60
1	AA	64	A	N1-C2-N3	5.13	131.87	129.30
1	AP	63	C	C4'-C3'-C2'	-5.13	97.47	102.60
1	AE	57	G	C4-C5-N7	5.13	112.85	110.80
3	A1	5	U	N1-C2-N3	5.13	117.98	114.90
3	A1	129	A	C2'-C3'-O3'	5.13	121.91	113.70
3	A1	289	G	O5'-P-OP1	5.13	116.86	110.70
3	A1	544	G	N3-C4-C5	-5.13	126.03	128.60
3	A1	705	G	N1-C2-N2	-5.13	111.58	116.20
3	A1	896	C	C6-N1-C2	5.13	122.35	120.30
3	A1	1012	A	C6-N1-C2	5.13	121.68	118.60
3	A1	1177	G	C1'-O4'-C4'	-5.13	105.80	109.90
3	A1	1208	C	C4'-C3'-C2'	-5.13	97.47	102.60
3	A1	1332	A	O4'-C4'-C3'	5.13	110.20	106.10
3	A1	1380	U	C5-C4-O4	-5.13	122.82	125.90
3	A1	1380	U	N3-C4-O4	5.13	122.99	119.40
16	AQ	6	ARG	CD-NE-CZ	5.13	130.78	123.60
24	BA	19	C	O4'-C1'-C2'	5.13	112.22	107.60
24	BA	87	U	O4'-C1'-N1	5.13	112.31	108.20
25	BB	256	A	C8-N9-C4	5.13	107.85	105.80
25	BB	591	U	C1'-O4'-C4'	-5.13	105.80	109.90
25	BB	751	A	C4'-C3'-C2'	-5.13	97.47	102.60
25	BB	1084	A	C8-N9-C4	-5.13	103.75	105.80
25	BB	1147	A	C4'-C3'-C2'	-5.13	97.47	102.60
25	BB	1686	C	C2-N1-C1'	-5.13	113.16	118.80
25	BB	1725	U	C5-C6-N1	-5.13	120.13	122.70
25	BB	1887	C	O4'-C1'-N1	5.13	112.31	108.20
25	BB	1995	U	C5-C4-O4	5.13	128.98	125.90
25	BB	2369	A	C4-C5-C6	-5.13	114.44	117.00
25	BB	2736	A	C5-C6-N6	-5.13	119.59	123.70
25	BB	2893	A	C6-C5-N7	5.13	135.89	132.30
3	A1	42	G	C8-N9-C1'	5.13	133.67	127.00
3	A1	830	G	O5'-C5'-C4'	-5.13	101.95	111.70
3	A1	901	A	C5'-C4'-C3'	-5.13	107.79	116.00
3	A1	1290	G	C2-N3-C4	5.13	114.47	111.90
17	AR	153	ARG	NE-CZ-NH2	-5.13	117.73	120.30
24	BA	39	A	C6-C5-N7	5.13	135.89	132.30
25	BB	61	C	C3'-C2'-C1'	-5.13	97.40	101.50
25	BB	64	A	O4'-C4'-C3'	5.13	110.20	106.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	354	A	C5'-C4'-O4'	5.13	115.26	109.10
25	BB	696	G	O5'-P-OP1	-5.13	101.08	105.70
25	BB	1637	A	C4'-C3'-C2'	-5.13	97.47	102.60
25	BB	2208	C	C6-N1-C1'	5.13	126.96	120.80
25	BB	2550	G	N1-C6-O6	-5.13	116.82	119.90
54	B5	4	VAL	O-C-N	-5.13	114.49	122.70
55	B6	9	GLU	O-C-N	-5.13	114.49	122.70
1	AP	64	A	C8-N9-C4	-5.13	103.75	105.80
2	AM	13	U	C4'-C3'-C2'	-5.13	97.47	102.60
3	A1	217	C	C3'-C2'-C1'	-5.13	97.40	101.50
3	A1	373	A	C3'-C2'-C1'	5.13	105.60	101.50
3	A1	667	G	O5'-P-OP2	-5.13	101.08	105.70
3	A1	911	U	N3-C2-O2	-5.13	118.61	122.20
3	A1	954	G	O3'-P-O5'	5.13	113.74	104.00
25	BB	529	A	C2-N3-C4	5.13	113.16	110.60
25	BB	673	C	N3-C4-N4	-5.13	114.41	118.00
25	BB	769	U	C2-N3-C4	-5.13	123.92	127.00
25	BB	884	U	N1-C2-O2	-5.13	119.21	122.80
25	BB	1088	A	N3-C4-N9	5.13	131.50	127.40
25	BB	1404	C	O3'-P-O5'	-5.13	94.25	104.00
25	BB	1414	C	C4'-C3'-C2'	-5.13	97.47	102.60
25	BB	1457	U	C4-C5-C6	5.13	122.78	119.70
25	BB	1475	G	N1-C2-N3	5.13	126.98	123.90
25	BB	1588	G	N1-C2-N2	-5.13	111.58	116.20
25	BB	1750	G	C5'-C4'-O4'	5.13	115.25	109.10
25	BB	1753	G	C1'-O4'-C4'	-5.13	105.80	109.90
25	BB	1833	C	C5'-C4'-O4'	5.13	115.25	109.10
25	BB	2146	C	N3-C2-O2	-5.13	118.31	121.90
25	BB	2202	U	O4'-C1'-N1	-5.13	104.10	108.20
25	BB	2245	U	N3-C4-O4	5.13	122.99	119.40
1	AA	58	A	C5-N7-C8	5.13	106.46	103.90
1	AP	10	G	C1'-O4'-C4'	5.13	114.00	109.90
2	AM	11	U	C4'-C3'-C2'	-5.13	97.47	102.60
3	A1	300	A	C5-N7-C8	-5.13	101.34	103.90
3	A1	831	A	C5-N7-C8	-5.13	101.34	103.90
3	A1	1045	C	N1-C2-N3	5.13	122.79	119.20
3	A1	1451	U	P-O3'-C3'	5.13	125.85	119.70
25	BB	80	G	C6-N1-C2	-5.13	122.03	125.10
25	BB	82	U	C5'-C4'-O4'	5.13	115.25	109.10
25	BB	215	G	N3-C4-C5	-5.13	126.04	128.60
25	BB	561	G	C6-C5-N7	5.13	133.48	130.40
25	BB	623	C	C4'-C3'-C2'	5.13	107.73	102.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	635	C	C5-C6-N1	-5.13	118.44	121.00
25	BB	866	A	C6-C5-N7	5.13	135.89	132.30
25	BB	980	A	C5-C6-N6	-5.13	119.60	123.70
25	BB	1322	A	C5'-C4'-O4'	5.13	115.25	109.10
25	BB	1367	A	N9-C4-C5	-5.13	103.75	105.80
25	BB	1403	A	P-O3'-C3'	5.13	125.85	119.70
25	BB	1739	A	C5-C6-N6	5.13	127.80	123.70
25	BB	2019	A	C4-C5-C6	-5.13	114.44	117.00
25	BB	2022	U	O4'-C4'-C3'	5.13	110.20	106.10
25	BB	2240	U	N3-C4-O4	-5.13	115.81	119.40
25	BB	2427	C	C2-N3-C4	-5.13	117.34	119.90
25	BB	2513	A	C3'-C2'-C1'	-5.13	97.40	101.50
25	BB	2570	G	C4-C5-C6	-5.13	115.72	118.80
33	BJ	46	TYR	CG-CD2-CE2	5.13	125.40	121.30
1	AE	5	A	C1'-O4'-C4'	-5.12	105.80	109.90
3	A1	131	A	C4-C5-N7	5.12	113.26	110.70
3	A1	319	G	O4'-C1'-N9	5.12	112.30	108.20
3	A1	1081	A	O4'-C4'-C3'	-5.12	98.88	104.00
19	AT	60	VAL	CA-CB-CG1	5.12	118.59	110.90
25	BB	63	A	N9-C1'-C2'	-5.12	106.36	112.00
25	BB	568	U	O5'-C5'-C4'	-5.12	101.96	111.70
25	BB	965	C	C1'-O4'-C4'	-5.12	105.80	109.90
25	BB	2824	C	O5'-P-OP2	-5.12	101.09	105.70
47	BX	15	LYS	CA-CB-CG	5.12	124.67	113.40
3	A1	195	A	N9-C1'-C2'	-5.12	106.36	112.00
3	A1	256	U	C5-C4-O4	5.12	128.97	125.90
3	A1	259	G	N3-C2-N2	-5.12	116.31	119.90
3	A1	660	C	C3'-C2'-C1'	5.12	105.60	101.50
3	A1	1309	G	N3-C4-N9	-5.12	122.93	126.00
4	AB	105	THR	CA-CB-CG2	5.12	119.57	112.40
23	AX	6	ILE	CA-CB-CG1	5.12	120.74	111.00
25	BB	494	G	C6-N1-C2	-5.12	122.03	125.10
25	BB	527	C	N1-C1'-C2'	5.12	120.66	114.00
25	BB	684	G	O4'-C1'-N9	5.12	112.30	108.20
25	BB	743	A	C4-C5-C6	-5.12	114.44	117.00
25	BB	1165	A	N3-C4-C5	-5.12	123.21	126.80
25	BB	1168	G	N1-C2-N3	5.12	126.97	123.90
25	BB	1265	A	N9-C1'-C2'	5.12	120.66	114.00
25	BB	1320	C	C6-N1-C2	-5.12	118.25	120.30
25	BB	1903	G	C2-N3-C4	5.12	114.46	111.90
53	B4	73	ASN	OD1-CG-ND2	-5.12	110.12	121.90
1	AA	24	G	C1'-O4'-C4'	-5.12	105.80	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AE	16	U	O4'-C1'-N1	5.12	112.30	108.20
1	AE	57	G	N3-C4-C5	-5.12	126.04	128.60
3	A1	465	A	C2-N3-C4	5.12	113.16	110.60
3	A1	516	U	C5-C4-O4	-5.12	122.83	125.90
3	A1	555	U	N3-C4-C5	5.12	117.67	114.60
3	A1	666	G	O3'-P-O5'	5.12	113.73	104.00
3	A1	683	G	C3'-C2'-C1'	-5.12	97.40	101.50
3	A1	888	G	C6-C5-N7	5.12	133.47	130.40
3	A1	1197	A	C1'-O4'-C4'	5.12	114.00	109.90
20	AU	142	ARG	NE-CZ-NH1	-5.12	117.74	120.30
25	BB	840	C	N3-C4-C5	5.12	123.95	121.90
25	BB	966	G	C8-N9-C4	-5.12	104.35	106.40
25	BB	1078	U	C6-N1-C2	-5.12	117.93	121.00
25	BB	1212	G	N1-C2-N2	5.12	120.81	116.20
25	BB	1497	U	O4'-C1'-C2'	5.12	112.21	107.60
25	BB	1924	C	C4-C5-C6	5.12	119.96	117.40
25	BB	2170	A	O4'-C4'-C3'	5.12	110.20	106.10
25	BB	2203	U	C5-C6-N1	-5.12	120.14	122.70
25	BB	2282	G	N9-C1'-C2'	5.12	120.66	114.00
25	BB	2628	C	C1'-O4'-C4'	-5.12	105.80	109.90
25	BB	2733	A	C3'-C2'-C1'	5.12	105.60	101.50
25	BB	2829	A	C2-N3-C4	-5.12	108.04	110.60
27	BD	108	ARG	NE-CZ-NH2	-5.12	117.74	120.30
34	BK	80	ARG	CD-NE-CZ	5.12	130.77	123.60
36	BM	84	TYR	O-C-N	5.12	130.90	122.70
37	BN	135	PRO	N-CD-CG	5.12	110.88	103.20
3	A1	481	G	C5-C6-O6	-5.12	125.53	128.60
3	A1	563	A	C4-C5-N7	5.12	113.26	110.70
3	A1	797	C	C5-C6-N1	-5.12	118.44	121.00
3	A1	937	A	C4'-C3'-C2'	-5.12	97.48	102.60
3	A1	1038	C	C5'-C4'-C3'	5.12	124.19	116.00
5	AC	43	TRP	NE1-CE2-CD2	-5.12	102.18	107.30
25	BB	24	G	N3-C4-C5	-5.12	126.04	128.60
25	BB	258	G	P-O3'-C3'	5.12	125.84	119.70
25	BB	412	A	O3'-P-O5'	5.12	113.73	104.00
25	BB	1032	A	C6-C5-N7	5.12	135.88	132.30
25	BB	1211	C	C5-C4-N4	5.12	123.78	120.20
25	BB	1469	A	C5'-C4'-C3'	-5.12	107.81	116.00
25	BB	2202	U	C2'-C3'-O3'	5.12	121.89	113.70
25	BB	2660	A	C5-N7-C8	-5.12	101.34	103.90
1	AA	71	G	N3-C4-N9	5.12	129.07	126.00
3	A1	154	U	C1'-O4'-C4'	-5.12	105.81	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	526	C	N3-C4-C5	5.12	123.95	121.90
3	A1	565	U	C2-N3-C4	5.12	130.07	127.00
3	A1	787	A	C5-C6-N1	5.12	120.26	117.70
3	A1	1456	A	C5-N7-C8	5.12	106.46	103.90
3	A1	1533	C	C6-N1-C2	5.12	122.35	120.30
24	BA	85	G	C2-N3-C4	5.12	114.46	111.90
24	BA	108	A	N7-C8-N9	5.12	116.36	113.80
25	BB	60	G	C4-C5-N7	-5.12	108.75	110.80
25	BB	363	G	C4-C5-N7	5.12	112.85	110.80
25	BB	499	U	C5'-C4'-C3'	-5.12	107.81	116.00
25	BB	728	G	N1-C2-N2	5.12	120.81	116.20
25	BB	757	G	C1'-O4'-C4'	-5.12	105.81	109.90
25	BB	1269	A	O5'-P-OP2	-5.12	101.09	105.70
25	BB	1410	G	C1'-C2'-O2'	-5.12	95.24	110.60
25	BB	1602	U	N1-C2-N3	-5.12	111.83	114.90
25	BB	1963	U	C4'-C3'-C2'	-5.12	97.48	102.60
25	BB	2069	G	C3'-C2'-C1'	-5.12	97.41	101.50
25	BB	2481	G	C1'-O4'-C4'	-5.12	105.81	109.90
25	BB	2587	A	C5-C6-N1	5.12	120.26	117.70
25	BB	2637	U	N3-C4-C5	5.12	117.67	114.60
25	BB	2747	G	C5-C6-N1	5.12	114.06	111.50
45	BV	39	ARG	N-CA-CB	-5.12	101.39	110.60
3	A1	279	A	C5-C6-N6	5.12	127.79	123.70
3	A1	656	G	C4-C5-C6	-5.12	115.73	118.80
3	A1	710	G	C5'-C4'-C3'	-5.12	107.81	116.00
3	A1	733	G	C1'-O4'-C4'	5.12	113.99	109.90
3	A1	1445	U	N3-C4-O4	-5.12	115.82	119.40
25	BB	478	A	C3'-C2'-C1'	-5.12	97.41	101.50
25	BB	515	A	N7-C8-N9	5.12	116.36	113.80
25	BB	1223	G	C2-N3-C4	-5.12	109.34	111.90
25	BB	1845	G	O4'-C1'-N9	5.12	112.29	108.20
25	BB	1970	A	N1-C2-N3	-5.12	126.74	129.30
25	BB	2655	G	N9-C4-C5	5.12	107.45	105.40
51	B2	99	PHE	CG-CD1-CE1	-5.12	115.17	120.80
52	B3	118	ALA	N-CA-CB	-5.12	102.94	110.10
1	AA	53	G	P-O3'-C3'	-5.12	113.56	119.70
3	A1	100	G	C2-N3-C4	5.12	114.46	111.90
3	A1	118	U	C1'-O4'-C4'	5.12	113.99	109.90
3	A1	169	C	C2'-C3'-O3'	5.12	121.88	113.70
3	A1	261	U	N1-C2-N3	5.12	117.97	114.90
3	A1	470	C	N3-C4-N4	-5.12	114.42	118.00
3	A1	924	C	P-O3'-C3'	5.12	125.84	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	961	U	N1-C2-N3	5.12	117.97	114.90
3	A1	1067	A	C6-C5-N7	5.12	135.88	132.30
3	A1	1191	A	C5'-C4'-C3'	-5.12	107.82	116.00
3	A1	1245	C	C5-C6-N1	5.12	123.56	121.00
3	A1	1262	C	C6-N1-C1'	5.12	126.94	120.80
3	A1	1497	G	N1-C6-O6	-5.12	116.83	119.90
7	AF	108	ARG	CD-NE-CZ	5.12	130.76	123.60
24	BA	76	G	C2-N3-C4	-5.12	109.34	111.90
24	BA	106	G	C4'-C3'-C2'	-5.12	97.48	102.60
25	BB	285	G	O4'-C1'-N9	5.12	112.29	108.20
25	BB	391	A	C8-N9-C4	-5.12	103.75	105.80
25	BB	460	A	C4-C5-N7	-5.12	108.14	110.70
25	BB	980	A	C4-C5-C6	-5.12	114.44	117.00
25	BB	1096	A	C4-C5-N7	5.12	113.26	110.70
25	BB	1185	G	P-O3'-C3'	5.12	125.84	119.70
25	BB	2624	G	N9-C4-C5	5.12	107.45	105.40
25	BB	2901	C	C4-C5-C6	5.12	119.96	117.40
49	BZ	147	TYR	CG-CD2-CE2	-5.12	117.21	121.30
1	AA	65	G	C5-C6-N1	5.11	114.06	111.50
1	AP	41	U	N3-C4-C5	5.11	117.67	114.60
3	A1	318	G	C4-C5-C6	-5.11	115.73	118.80
3	A1	541	G	N1-C6-O6	-5.11	116.83	119.90
3	A1	618	C	N1-C2-O2	5.11	121.97	118.90
3	A1	642	A	N3-C4-C5	-5.11	123.22	126.80
3	A1	1222	G	C8-N9-C4	5.11	108.44	106.40
3	A1	1402	C	C3'-C2'-C1'	5.11	105.59	101.50
4	AB	88	GLN	CA-CB-CG	5.11	124.65	113.40
15	AO	21	TRP	CE3-CZ3-CH2	-5.11	115.58	121.20
25	BB	377	G	N1-C6-O6	-5.11	116.83	119.90
25	BB	675	A	C5'-C4'-O4'	5.11	115.23	109.10
25	BB	723	C	O4'-C1'-N1	5.11	112.29	108.20
25	BB	1008	A	C4-C5-C6	-5.11	114.44	117.00
25	BB	1255	U	C4'-C3'-C2'	5.11	107.71	102.60
25	BB	1467	U	O5'-C5'-C4'	-5.11	101.98	111.70
25	BB	1617	C	N1-C2-N3	5.11	122.78	119.20
25	BB	1863	G	C6-C5-N7	5.11	133.47	130.40
25	BB	2604	U	C5-C4-O4	5.11	128.97	125.90
44	BU	10	LEU	O-C-N	-5.11	114.52	122.70
1	AP	48	C	O5'-P-OP2	-5.11	101.10	105.70
3	A1	189	A	C4'-C3'-C2'	-5.11	97.49	102.60
25	BB	615	U	C5'-C4'-C3'	-5.11	107.82	116.00
25	BB	1373	A	C5-C6-N6	5.11	127.79	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2081	U	C4'-C3'-O3'	5.11	123.22	113.00
25	BB	2293	G	C5-C6-N1	5.11	114.06	111.50
25	BB	2649	C	N1-C2-O2	5.11	121.97	118.90
31	BH	40	ILE	CA-CB-CG2	5.11	121.12	110.90
37	BN	220	ARG	NH1-CZ-NH2	-5.11	113.78	119.40
3	A1	294	U	C2-N1-C1'	5.11	123.83	117.70
3	A1	337	G	N7-C8-N9	5.11	115.66	113.10
3	A1	378	G	C5'-C4'-O4'	5.11	115.23	109.10
3	A1	537	G	N3-C2-N2	5.11	123.48	119.90
3	A1	961	U	O4'-C1'-N1	5.11	112.29	108.20
3	A1	1086	U	C4'-C3'-C2'	-5.11	97.49	102.60
3	A1	1112	C	C3'-C2'-C1'	5.11	105.59	101.50
3	A1	1210	C	O4'-C4'-C3'	5.11	110.19	106.10
3	A1	1304	G	C5'-C4'-C3'	-5.11	107.82	116.00
25	BB	54	G	N7-C8-N9	5.11	115.66	113.10
25	BB	538	A	N3-C4-C5	-5.11	123.22	126.80
25	BB	725	G	C4-C5-N7	5.11	112.84	110.80
25	BB	984	A	C4'-C3'-C2'	-5.11	97.49	102.60
25	BB	1000	A	C4-C5-N7	5.11	113.25	110.70
25	BB	1409	U	C5-C4-O4	5.11	128.97	125.90
25	BB	1941	C	C4-C5-C6	-5.11	114.84	117.40
25	BB	2234	G	C5'-C4'-O4'	-5.11	102.97	109.10
25	BB	2719	G	N7-C8-N9	5.11	115.66	113.10
38	BO	5	ARG	NE-CZ-NH1	5.11	122.86	120.30
1	AA	46	G	C5'-C4'-O4'	5.11	115.23	109.10
3	A1	130	A	O4'-C4'-C3'	5.11	110.19	106.10
3	A1	831	A	C2-N3-C4	5.11	113.16	110.60
3	A1	1191	A	C5-N7-C8	-5.11	101.34	103.90
25	BB	6	A	C4'-C3'-C2'	5.11	107.71	102.60
25	BB	185	G	C5-C6-N1	5.11	114.06	111.50
25	BB	1633	G	N1-C2-N2	5.11	120.80	116.20
25	BB	1948	G	C3'-C2'-C1'	5.11	105.59	101.50
25	BB	2632	A	C1'-O4'-C4'	-5.11	105.81	109.90
1	AA	20	G	N1-C2-N2	5.11	120.80	116.20
3	A1	535	A	C6-C5-N7	5.11	135.88	132.30
3	A1	586	C	N1-C2-N3	5.11	122.78	119.20
3	A1	939	G	C5'-C4'-O4'	5.11	115.23	109.10
3	A1	1026	G	N1-C2-N3	5.11	126.96	123.90
3	A1	1042	A	N9-C1'-C2'	5.11	120.64	114.00
3	A1	1365	G	C4-N9-C1'	5.11	133.14	126.50
20	AU	134	VAL	CG1-CB-CG2	-5.11	102.73	110.90
25	BB	15	G	N7-C8-N9	5.11	115.65	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	457	A	C5-C6-N6	5.11	127.78	123.70
25	BB	800	A	N7-C8-N9	5.11	116.35	113.80
25	BB	823	C	C5-C4-N4	5.11	123.78	120.20
25	BB	868	U	N1-C1'-C2'	-5.11	106.38	112.00
25	BB	1091	G	C5'-C4'-C3'	-5.11	107.83	116.00
25	BB	1256	G	C1'-O4'-C4'	5.11	113.99	109.90
25	BB	1510	G	C2-N3-C4	-5.11	109.35	111.90
25	BB	1543	G	N1-C6-O6	-5.11	116.83	119.90
25	BB	1630	A	N7-C8-N9	-5.11	111.25	113.80
25	BB	1665	A	C3'-C2'-C1'	5.11	105.59	101.50
25	BB	1686	C	N1-C2-N3	-5.11	115.62	119.20
25	BB	1824	G	O4'-C1'-N9	5.11	112.29	108.20
25	BB	2211	A	C3'-C2'-C1'	-5.11	97.42	101.50
25	BB	2367	G	N7-C8-N9	5.11	115.65	113.10
25	BB	2376	A	N1-C2-N3	5.11	131.85	129.30
25	BB	2729	G	N3-C4-N9	5.11	129.06	126.00
25	BB	2887	A	C1'-O4'-C4'	-5.11	105.81	109.90
28	BE	18	ARG	NE-CZ-NH1	5.11	122.85	120.30
36	BM	64	LYS	C-N-CA	5.11	133.03	122.30
3	A1	27	G	C3'-C2'-C1'	5.11	105.58	101.50
3	A1	88	U	C5'-C4'-C3'	-5.11	107.83	116.00
3	A1	249	U	C2-N3-C4	-5.11	123.94	127.00
3	A1	254	G	N3-C4-N9	5.11	129.06	126.00
3	A1	409	U	C4'-C3'-C2'	5.11	107.70	102.60
3	A1	1289	A	C4-C5-C6	-5.11	114.45	117.00
25	BB	311	A	C5'-C4'-C3'	-5.11	107.83	116.00
25	BB	317	G	N3-C2-N2	-5.11	116.33	119.90
25	BB	542	C	C5-C6-N1	-5.11	118.45	121.00
25	BB	1020	A	C3'-C2'-C1'	5.11	105.58	101.50
25	BB	1187	G	O3'-P-O5'	-5.11	94.30	104.00
25	BB	1796	U	C4-C5-C6	5.11	122.76	119.70
25	BB	1894	C	C5'-C4'-O4'	5.11	115.23	109.10
25	BB	2143	C	N3-C4-N4	-5.11	114.43	118.00
25	BB	2204	G	C5-N7-C8	-5.11	101.75	104.30
25	BB	2250	G	C6-N1-C2	-5.11	122.04	125.10
25	BB	2489	U	C5-C4-O4	5.11	128.96	125.90
25	BB	2553	G	N9-C4-C5	5.11	107.44	105.40
25	BB	2670	A	C4'-C3'-C2'	-5.11	97.50	102.60
25	BB	2696	U	C2-N3-C4	5.11	130.06	127.00
25	BB	2757	A	C5-C6-N1	5.11	120.25	117.70
3	A1	156	C	C4'-C3'-C2'	-5.10	97.50	102.60
3	A1	195	A	C4-C5-C6	-5.10	114.45	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	490	C	C6-N1-C2	-5.10	118.26	120.30
3	A1	847	G	C4-C5-C6	-5.10	115.74	118.80
3	A1	1084	G	N1-C2-N2	-5.10	111.61	116.20
3	A1	1513	A	C6-N1-C2	-5.10	115.54	118.60
4	AB	170	ILE	CG1-CB-CG2	-5.10	100.17	111.40
5	AC	76	TYR	CB-CG-CD2	5.10	124.06	121.00
25	BB	449	A	C5'-C4'-C3'	-5.10	107.83	116.00
25	BB	982	C	C2-N3-C4	-5.10	117.35	119.90
25	BB	1469	A	N9-C4-C5	5.10	107.84	105.80
25	BB	1933	G	C5'-C4'-O4'	5.10	115.22	109.10
25	BB	2054	A	P-O3'-C3'	5.10	125.83	119.70
25	BB	2315	G	N1-C2-N2	-5.10	111.61	116.20
25	BB	2452	C	N1-C2-N3	5.10	122.77	119.20
46	BW	12	ARG	C-N-CA	5.10	134.46	121.70
54	B5	66	PHE	N-CA-CB	-5.10	101.41	110.60
3	A1	545	C	O4'-C1'-N1	5.10	112.28	108.20
3	A1	1459	G	C4-C5-C6	-5.10	115.74	118.80
25	BB	351	C	O4'-C1'-N1	5.10	112.28	108.20
25	BB	610	C	C5'-C4'-O4'	5.10	115.22	109.10
25	BB	707	G	C6-N1-C2	-5.10	122.04	125.10
25	BB	732	C	N1-C2-O2	5.10	121.96	118.90
25	BB	800	A	P-O3'-C3'	5.10	125.82	119.70
25	BB	849	A	C2'-C3'-O3'	5.10	121.86	113.70
25	BB	864	G	C5-C6-O6	5.10	131.66	128.60
25	BB	1098	A	P-O5'-C5'	5.10	129.06	120.90
25	BB	1513	U	C5'-C4'-O4'	5.10	115.22	109.10
25	BB	1909	C	O4'-C4'-C3'	-5.10	98.90	104.00
25	BB	2173	A	C5-C6-N6	5.10	127.78	123.70
25	BB	2536	G	N1-C2-N2	5.10	120.79	116.20
25	BB	2561	U	C6-N1-C2	5.10	124.06	121.00
25	BB	2645	G	N1-C6-O6	-5.10	116.84	119.90
31	BH	12	THR	CA-CB-OG1	5.10	119.71	109.00
3	A1	175	C	N3-C2-O2	-5.10	118.33	121.90
3	A1	422	C	N1-C2-O2	5.10	121.96	118.90
3	A1	905	U	C5-C4-O4	5.10	128.96	125.90
3	A1	982	U	N3-C4-C5	5.10	117.66	114.60
3	A1	1096	C	C4'-C3'-C2'	-5.10	97.50	102.60
15	AO	21	TRP	CG-CD2-CE3	5.10	138.49	133.90
25	BB	119	A	C5-N7-C8	5.10	106.45	103.90
25	BB	974	G	P-O5'-C5'	5.10	129.06	120.90
25	BB	1122	G	C2-N3-C4	5.10	114.45	111.90
25	BB	1175	A	N9-C1'-C2'	-5.10	106.39	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1828	G	C4'-C3'-C2'	-5.10	97.50	102.60
25	BB	2032	G	N3-C2-N2	-5.10	116.33	119.90
25	BB	2043	C	N1-C2-N3	5.10	122.77	119.20
25	BB	2045	C	O4'-C1'-C2'	5.10	112.19	107.60
25	BB	2455	G	O5'-P-OP2	-5.10	101.11	105.70
25	BB	2518	A	C5'-C4'-C3'	-5.10	107.84	116.00
25	BB	2533	U	P-O3'-C3'	5.10	125.82	119.70
3	A1	681	A	N1-C2-N3	-5.10	126.75	129.30
3	A1	753	A	C4-C5-N7	-5.10	108.15	110.70
3	A1	825	A	N7-C8-N9	-5.10	111.25	113.80
11	AJ	57	VAL	CA-CB-CG2	5.10	118.55	110.90
24	BA	81	G	C5'-C4'-C3'	-5.10	107.84	116.00
25	BB	200	U	C4'-C3'-C2'	-5.10	97.50	102.60
25	BB	311	A	O4'-C1'-N9	5.10	112.28	108.20
25	BB	470	A	C2-N3-C4	5.10	113.15	110.60
25	BB	1155	A	N3-C4-N9	-5.10	123.32	127.40
25	BB	2239	G	C8-N9-C4	-5.10	104.36	106.40
25	BB	2442	C	C2-N3-C4	-5.10	117.35	119.90
25	BB	2484	G	C4'-C3'-C2'	-5.10	97.50	102.60
25	BB	2800	A	N3-C4-N9	-5.10	123.32	127.40
3	A1	156	C	C5'-C4'-C3'	-5.10	107.84	116.00
3	A1	247	G	N3-C4-C5	-5.10	126.05	128.60
3	A1	478	A	P-O3'-C3'	-5.10	113.58	119.70
3	A1	496	A	C5-C6-N6	5.10	127.78	123.70
3	A1	580	C	C6-N1-C2	-5.10	118.26	120.30
3	A1	728	A	N7-C8-N9	5.10	116.35	113.80
3	A1	975	A	C6-N1-C2	-5.10	115.54	118.60
3	A1	1172	C	C1'-O4'-C4'	-5.10	105.82	109.90
3	A1	1201	A	O4'-C4'-C3'	5.10	110.18	106.10
24	BA	111	U	N1-C1'-C2'	-5.10	106.39	112.00
25	BB	143	C	C2-N3-C4	-5.10	117.35	119.90
25	BB	148	U	C6-N1-C2	-5.10	117.94	121.00
25	BB	216	A	C2-N3-C4	-5.10	108.05	110.60
25	BB	679	C	C5-C4-N4	5.10	123.77	120.20
25	BB	923	G	O4'-C4'-C3'	-5.10	98.90	104.00
25	BB	1029	A	P-O3'-C3'	5.10	125.82	119.70
25	BB	1158	C	N1-C2-N3	5.10	122.77	119.20
25	BB	1247	A	O4'-C1'-N9	5.10	112.28	108.20
25	BB	1289	C	C3'-C2'-C1'	5.10	105.58	101.50
25	BB	1301	A	C6-C5-N7	5.10	135.87	132.30
25	BB	1479	G	N1-C6-O6	-5.10	116.84	119.90
25	BB	2220	U	N3-C2-O2	-5.10	118.63	122.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2228	G	N1-C2-N3	5.10	126.96	123.90
25	BB	2500	U	N1-C2-N3	5.10	117.96	114.90
25	BB	2898	U	N1-C2-N3	5.10	117.96	114.90
25	BB	2901	C	C2-N1-C1'	-5.10	113.19	118.80
1	AA	36	A	N3-C4-C5	-5.10	123.23	126.80
1	AP	53	G	N3-C4-C5	-5.10	126.05	128.60
3	A1	669	G	P-O3'-C3'	5.10	125.81	119.70
3	A1	1341	U	O4'-C1'-N1	-5.10	104.12	108.20
25	BB	489	G	C4'-C3'-C2'	-5.10	97.50	102.60
25	BB	495	G	C4-C5-N7	5.10	112.84	110.80
25	BB	629	G	C8-N9-C1'	-5.10	120.38	127.00
25	BB	757	G	N1-C6-O6	-5.10	116.84	119.90
25	BB	916	G	C5'-C4'-C3'	-5.10	107.85	116.00
25	BB	1119	U	C2-N3-C4	-5.10	123.94	127.00
25	BB	1187	G	N1-C2-N3	5.10	126.96	123.90
25	BB	1591	A	N7-C8-N9	5.10	116.35	113.80
25	BB	1606	C	C6-N1-C1'	-5.10	114.69	120.80
25	BB	1665	A	N7-C8-N9	-5.10	111.25	113.80
25	BB	1776	G	O3'-P-O5'	-5.10	94.32	104.00
25	BB	1991	U	O4'-C1'-N1	5.10	112.28	108.20
25	BB	2499	C	N3-C4-N4	-5.10	114.43	118.00
3	A1	11	G	C5'-C4'-C3'	-5.09	107.85	116.00
3	A1	55	A	C5-C6-N6	5.09	127.78	123.70
3	A1	183	C	C5-C6-N1	5.09	123.55	121.00
3	A1	283	U	C5-C6-N1	-5.09	120.15	122.70
3	A1	746	A	OP1-P-OP2	-5.09	111.96	119.60
3	A1	1124	G	C5'-C4'-O4'	5.09	115.21	109.10
3	A1	1245	C	C6-N1-C1'	5.09	126.91	120.80
3	A1	1304	G	N1-C2-N3	5.09	126.96	123.90
25	BB	121	G	N1-C2-N2	-5.09	111.61	116.20
25	BB	393	C	N1-C1'-C2'	5.09	120.62	114.00
25	BB	651	G	C6-N1-C2	-5.09	122.04	125.10
25	BB	694	U	C2'-C3'-O3'	5.09	121.85	113.70
25	BB	802	A	N3-C4-C5	-5.09	123.23	126.80
25	BB	1425	G	C8-N9-C1'	5.09	133.62	127.00
25	BB	1644	C	C6-N1-C2	-5.09	118.26	120.30
25	BB	1728	C	N3-C2-O2	-5.09	118.33	121.90
25	BB	2061	G	N7-C8-N9	-5.09	110.55	113.10
25	BB	2242	G	C8-N9-C4	-5.09	104.36	106.40
25	BB	2513	A	C4'-C3'-C2'	-5.09	97.51	102.60
25	BB	2631	G	N3-C4-C5	-5.09	126.05	128.60
25	BB	2789	C	C5-C6-N1	-5.09	118.45	121.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2816	G	N3-C2-N2	5.09	123.47	119.90
33	BJ	2	ARG	NH1-CZ-NH2	-5.09	113.80	119.40
33	BJ	56	PHE	CB-CG-CD2	5.09	124.37	120.80
34	BK	2	TYR	CB-CG-CD2	5.09	124.06	121.00
49	BZ	108	GLU	OE1-CD-OE2	-5.09	117.19	123.30
1	AA	29	A	C5'-C4'-O4'	5.09	115.21	109.10
3	A1	163	C	C4-C5-C6	5.09	119.95	117.40
3	A1	500	G	C6-C5-N7	5.09	133.46	130.40
3	A1	560	A	N3-C4-N9	5.09	131.47	127.40
3	A1	859	G	N3-C4-N9	5.09	129.06	126.00
3	A1	973	G	C6-C5-N7	-5.09	127.34	130.40
3	A1	1072	G	C1'-O4'-C4'	-5.09	105.83	109.90
25	BB	728	G	O4'-C1'-N9	5.09	112.27	108.20
25	BB	1213	A	C6-C5-N7	5.09	135.87	132.30
25	BB	2104	C	N3-C4-N4	-5.09	114.44	118.00
25	BB	2443	C	C2-N1-C1'	-5.09	113.20	118.80
25	BB	2458	G	OP1-P-OP2	-5.09	111.96	119.60
25	BB	2492	U	C2-N1-C1'	5.09	123.81	117.70
25	BB	2679	A	N9-C4-C5	-5.09	103.76	105.80
3	A1	433	G	O4'-C1'-N9	5.09	112.27	108.20
3	A1	468	A	C2'-C3'-O3'	5.09	121.85	113.70
3	A1	521	G	C2-N3-C4	-5.09	109.36	111.90
3	A1	707	U	C2'-C3'-O3'	5.09	121.85	113.70
3	A1	728	A	OP2-P-O3'	5.09	116.40	105.20
3	A1	835	U	O5'-P-OP1	-5.09	101.12	105.70
3	A1	936	C	C4-C5-C6	5.09	119.95	117.40
4	AB	37	VAL	CG1-CB-CG2	-5.09	102.75	110.90
10	AI	10	GLY	CA-C-N	5.09	128.40	117.20
24	BA	111	U	C4-C5-C6	5.09	122.75	119.70
25	BB	79	C	C1'-O4'-C4'	5.09	113.97	109.90
25	BB	133	U	C5'-C4'-C3'	-5.09	107.86	116.00
25	BB	215	G	N3-C2-N2	-5.09	116.33	119.90
25	BB	367	G	C6-C5-N7	-5.09	127.34	130.40
25	BB	1302	A	C5-C6-N6	5.09	127.77	123.70
25	BB	1346	G	C3'-C2'-C1'	5.09	105.57	101.50
25	BB	1433	A	N7-C8-N9	-5.09	111.25	113.80
25	BB	1699	G	N3-C2-N2	-5.09	116.33	119.90
25	BB	2026	U	C6-N1-C2	-5.09	117.94	121.00
25	BB	2107	G	C6-C5-N7	5.09	133.45	130.40
25	BB	2507	C	C5-C6-N1	5.09	123.55	121.00
3	A1	142	G	N3-C4-C5	-5.09	126.06	128.60
3	A1	198	G	C1'-O4'-C4'	-5.09	105.83	109.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	955	U	C6-N1-C1'	5.09	128.33	121.20
25	BB	248	G	C5'-C4'-O4'	5.09	115.21	109.10
25	BB	330	A	C8-N9-C4	-5.09	103.76	105.80
25	BB	361	G	O5'-C5'-C4'	-5.09	102.03	111.70
25	BB	638	G	N7-C8-N9	5.09	115.64	113.10
25	BB	907	G	C4-C5-C6	-5.09	115.75	118.80
25	BB	975	A	O4'-C1'-N9	5.09	112.27	108.20
25	BB	990	A	O4'-C1'-N9	5.09	112.27	108.20
25	BB	1469	A	C4-C5-N7	-5.09	108.16	110.70
25	BB	1607	C	C2-N1-C1'	5.09	124.40	118.80
25	BB	1669	A	C3'-C2'-C1'	-5.09	97.43	101.50
25	BB	1764	C	P-O5'-C5'	5.09	129.04	120.90
25	BB	2015	A	N3-C4-C5	-5.09	123.24	126.80
25	BB	2099	U	C5'-C4'-C3'	-5.09	107.86	116.00
25	BB	2225	A	C4'-C3'-C2'	-5.09	97.51	102.60
25	BB	2540	C	C5-C4-N4	5.09	123.76	120.20
25	BB	2827	C	O4'-C4'-C3'	-5.09	98.91	104.00
31	BH	116	GLN	C-N-CA	5.09	134.42	121.70
48	BY	25	THR	CA-CB-CG2	5.09	119.52	112.40
48	BY	176	ASP	CB-CG-OD2	-5.09	113.72	118.30
3	A1	368	U	C3'-C2'-C1'	-5.09	97.43	101.50
3	A1	729	A	O4'-C1'-N9	5.09	112.27	108.20
3	A1	1015	G	N9-C4-C5	5.09	107.44	105.40
3	A1	1063	C	C4'-C3'-C2'	-5.09	97.51	102.60
3	A1	1477	U	N3-C4-O4	5.09	122.96	119.40
25	BB	175	G	O5'-P-OP2	-5.09	101.12	105.70
25	BB	1162	G	C2-N3-C4	-5.09	109.36	111.90
25	BB	1791	A	N9-C4-C5	5.09	107.83	105.80
25	BB	1824	G	C5-C6-O6	5.09	131.65	128.60
25	BB	2007	U	O5'-C5'-C4'	5.09	121.37	111.70
25	BB	2712	C	N1-C2-O2	-5.09	115.85	118.90
1	AA	23	A	C4-C5-N7	5.09	113.24	110.70
1	AP	39	U	C1'-O4'-C4'	-5.09	105.83	109.90
3	A1	1049	U	C5-C4-O4	-5.09	122.85	125.90
3	A1	1231	G	N1-C6-O6	-5.09	116.85	119.90
25	BB	863	A	N3-C4-N9	-5.09	123.33	127.40
25	BB	995	C	O5'-C5'-C4'	-5.09	102.03	111.70
25	BB	1142	A	C1'-O4'-C4'	-5.09	105.83	109.90
25	BB	1191	G	O5'-C5'-C4'	-5.09	102.04	111.70
25	BB	1212	G	C4-C5-C6	-5.09	115.75	118.80
25	BB	1373	A	P-O3'-C3'	-5.09	113.60	119.70
25	BB	1723	G	C4-C5-C6	-5.09	115.75	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2371	G	P-O3'-C3'	5.09	125.80	119.70
25	BB	2411	A	C4-C5-N7	-5.09	108.16	110.70
1	AE	24	G	N7-C8-N9	5.08	115.64	113.10
3	A1	875	U	N1-C2-N3	5.08	117.95	114.90
24	BA	45	A	C6-C5-N7	5.08	135.86	132.30
25	BB	778	G	P-O3'-C3'	5.08	125.80	119.70
25	BB	1024	G	C4'-C3'-O3'	-5.08	98.72	109.40
27	BD	18	ARG	C-N-CA	5.08	134.41	121.70
1	AE	73	A	O4'-C1'-C2'	5.08	112.18	107.60
3	A1	150	U	N1-C1'-C2'	-5.08	106.41	112.00
3	A1	172	A	C5-N7-C8	5.08	106.44	103.90
3	A1	180	U	N1-C2-N3	5.08	117.95	114.90
3	A1	230	G	C4-C5-N7	-5.08	108.77	110.80
3	A1	291	U	O4'-C4'-C3'	5.08	110.17	106.10
3	A1	544	G	C8-N9-C1'	5.08	133.61	127.00
3	A1	804	U	O4'-C4'-C3'	5.08	110.17	106.10
3	A1	1074	G	C4'-C3'-C2'	-5.08	97.52	102.60
3	A1	1164	G	C6-C5-N7	5.08	133.45	130.40
3	A1	1258	G	C4-C5-N7	5.08	112.83	110.80
3	A1	1310	G	N1-C2-N3	5.08	126.95	123.90
3	A1	1393	U	C2-N3-C4	-5.08	123.95	127.00
3	A1	1395	C	C5-C6-N1	-5.08	118.46	121.00
3	A1	1415	G	C6-C5-N7	5.08	133.45	130.40
3	A1	1486	G	C5-C6-O6	5.08	131.65	128.60
18	AS	91	SER	CA-C-N	5.08	128.38	117.20
24	BA	52	A	N9-C4-C5	5.08	107.83	105.80
24	BA	114	C	O4'-C4'-C3'	5.08	110.17	106.10
25	BB	60	G	C6-C5-N7	5.08	133.45	130.40
25	BB	133	U	N3-C4-C5	-5.08	111.55	114.60
25	BB	1150	C	O3'-P-O5'	-5.08	94.34	104.00
25	BB	1534	U	C5-C6-N1	-5.08	120.16	122.70
25	BB	1690	A	O4'-C1'-N9	5.08	112.27	108.20
25	BB	1728	C	C1'-O4'-C4'	5.08	113.97	109.90
25	BB	1979	U	N1-C2-N3	5.08	117.95	114.90
25	BB	2716	C	C6-N1-C2	-5.08	118.27	120.30
50	B1	62	GLN	N-CA-C	5.08	124.73	111.00
53	B4	137	GLU	OE1-CD-OE2	-5.08	117.20	123.30
3	A1	61	G	N3-C4-C5	-5.08	126.06	128.60
3	A1	277	C	O4'-C1'-N1	5.08	112.27	108.20
3	A1	321	A	C6-N1-C2	-5.08	115.55	118.60
3	A1	385	C	C5'-C4'-C3'	-5.08	107.87	116.00
3	A1	385	C	O5'-P-OP2	-5.08	101.13	105.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	543	U	O4'-C1'-N1	-5.08	104.14	108.20
3	A1	680	C	C5'-C4'-C3'	-5.08	107.87	116.00
3	A1	774	G	N7-C8-N9	5.08	115.64	113.10
3	A1	1381	U	N1-C2-N3	5.08	117.95	114.90
14	AN	57	VAL	N-CA-C	5.08	124.72	111.00
24	BA	2	G	N9-C1'-C2'	-5.08	106.41	112.00
24	BA	68	C	N3-C4-N4	-5.08	114.44	118.00
25	BB	196	A	C1'-O4'-C4'	-5.08	105.83	109.90
25	BB	413	C	C5'-C4'-O4'	-5.08	103.00	109.10
25	BB	415	A	N1-C6-N6	-5.08	115.55	118.60
25	BB	628	G	C2-N3-C4	-5.08	109.36	111.90
25	BB	898	C	C5-C6-N1	5.08	123.54	121.00
25	BB	900	A	O4'-C1'-C2'	-5.08	100.72	105.80
25	BB	931	U	C4'-C3'-C2'	-5.08	97.52	102.60
25	BB	1072	C	C6-N1-C2	-5.08	118.27	120.30
25	BB	1610	A	N1-C2-N3	-5.08	126.76	129.30
25	BB	1651	G	C6-C5-N7	5.08	133.45	130.40
25	BB	1935	G	C4-C5-C6	-5.08	115.75	118.80
25	BB	2167	U	C5-C6-N1	-5.08	120.16	122.70
25	BB	2217	G	C5'-C4'-O4'	-5.08	103.00	109.10
1	AP	29	A	C5-N7-C8	-5.08	101.36	103.90
3	A1	1248	A	C4-C5-N7	-5.08	108.16	110.70
3	A1	1462	C	C2-N3-C4	-5.08	117.36	119.90
13	AL	54	ARG	NH1-CZ-NH2	-5.08	113.81	119.40
25	BB	9	G	C3'-C2'-C1'	5.08	105.56	101.50
25	BB	667	U	C2-N3-C4	-5.08	123.95	127.00
25	BB	1804	C	C4'-C3'-C2'	5.08	107.68	102.60
25	BB	1891	G	N1-C2-N3	5.08	126.95	123.90
25	BB	2204	G	C6-C5-N7	5.08	133.45	130.40
25	BB	2320	U	C4'-C3'-C2'	-5.08	97.52	102.60
25	BB	2344	U	P-O3'-C3'	5.08	125.80	119.70
25	BB	2502	G	C6-C5-N7	5.08	133.45	130.40
25	BB	2593	U	C5'-C4'-C3'	-5.08	107.87	116.00
55	B6	31	GLU	CG-CD-OE2	5.08	128.46	118.30
1	AA	8	U	C5-C4-O4	-5.08	122.85	125.90
1	AE	36	A	N7-C8-N9	-5.08	111.26	113.80
3	A1	442	G	C5'-C4'-C3'	-5.08	107.88	116.00
3	A1	971	G	C6-N1-C2	-5.08	122.05	125.10
3	A1	994	A	C5'-C4'-O4'	5.08	115.19	109.10
3	A1	1146	A	N9-C4-C5	5.08	107.83	105.80
25	BB	101	A	N1-C6-N6	-5.08	115.55	118.60
25	BB	172	A	C5-N7-C8	5.08	106.44	103.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	467	G	C5-C6-N1	5.08	114.04	111.50
25	BB	669	G	C4-C5-C6	-5.08	115.75	118.80
25	BB	878	A	N1-C6-N6	-5.08	115.55	118.60
25	BB	897	C	C1'-O4'-C4'	5.08	113.96	109.90
25	BB	1061	U	C2-N1-C1'	5.08	123.79	117.70
25	BB	1203	U	O4'-C1'-N1	5.08	112.26	108.20
25	BB	1268	A	O4'-C1'-N9	5.08	112.26	108.20
25	BB	1479	G	C4'-C3'-C2'	-5.08	97.52	102.60
25	BB	1713	A	O4'-C4'-C3'	5.08	110.16	106.10
25	BB	1858	A	C5-C6-N6	5.08	127.76	123.70
25	BB	2177	C	C4'-C3'-O3'	5.08	123.16	113.00
25	BB	2658	C	O4'-C1'-N1	5.08	112.26	108.20
55	B6	126	ALA	O-C-N	-5.08	114.57	123.20
3	A1	179	A	C4-C5-N7	5.08	113.24	110.70
3	A1	451	A	N1-C2-N3	-5.08	126.76	129.30
3	A1	693	G	C4-C5-N7	5.08	112.83	110.80
3	A1	899	C	C1'-O4'-C4'	-5.08	105.84	109.90
3	A1	1290	G	C4'-C3'-C2'	-5.08	97.52	102.60
25	BB	945	A	C5'-C4'-C3'	5.08	124.12	116.00
25	BB	1027	A	N9-C4-C5	5.08	107.83	105.80
25	BB	1917	U	O4'-C4'-C3'	5.08	110.16	106.10
25	BB	2526	G	C5-C6-O6	5.08	131.65	128.60
25	BB	2640	G	O4'-C1'-C2'	5.08	112.17	107.60
25	BB	2677	G	C1'-O4'-C4'	-5.08	105.84	109.90
37	BN	42	ARG	NE-CZ-NH1	5.08	122.84	120.30
49	BZ	85	ILE	CG1-CB-CG2	-5.08	100.23	111.40
1	AA	54	U	C5'-C4'-O4'	5.08	115.19	109.10
3	A1	202	G	N3-C4-C5	-5.08	126.06	128.60
3	A1	602	A	N9-C1'-C2'	-5.08	106.42	112.00
3	A1	743	A	C8-N9-C4	-5.08	103.77	105.80
3	A1	1067	A	C5-C6-N1	5.08	120.24	117.70
3	A1	1310	G	C6-N1-C2	-5.08	122.06	125.10
3	A1	1356	G	C5'-C4'-O4'	5.08	115.19	109.10
3	A1	1390	U	C6-N1-C2	-5.08	117.95	121.00
3	A1	1488	G	N1-C2-N3	5.08	126.95	123.90
14	AN	7	LYS	O-C-N	-5.08	114.58	122.70
18	AS	136	VAL	CA-CB-CG2	-5.08	103.29	110.90
25	BB	390	U	O4'-C1'-N1	5.08	112.26	108.20
25	BB	725	G	C8-N9-C1'	5.08	133.60	127.00
25	BB	744	U	C2'-C3'-O3'	5.08	121.82	113.70
25	BB	772	C	C1'-O4'-C4'	-5.08	105.84	109.90
25	BB	1735	A	C5-C6-N1	5.08	120.24	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1996	C	C6-N1-C2	5.08	122.33	120.30
25	BB	2147	A	O4'-C1'-N9	-5.08	104.14	108.20
25	BB	2303	G	C2-N3-C4	5.08	114.44	111.90
25	BB	2318	G	P-O3'-C3'	5.08	125.79	119.70
25	BB	2376	A	C3'-C2'-C1'	5.08	105.56	101.50
25	BB	2438	U	C5'-C4'-O4'	5.08	115.19	109.10
25	BB	2710	C	O4'-C4'-C3'	5.08	110.16	106.10
25	BB	2724	U	N3-C4-O4	-5.08	115.85	119.40
1	AA	41	U	N1-C1'-C2'	-5.07	106.42	112.00
1	AA	61	C	C6-N1-C2	-5.07	118.27	120.30
1	AE	11	C	N3-C4-N4	-5.07	114.45	118.00
1	AE	52	U	N1-C2-N3	5.07	117.94	114.90
3	A1	317	U	C4-C5-C6	5.07	122.74	119.70
3	A1	1095	U	C4-C5-C6	5.07	122.74	119.70
3	A1	1336	C	C4-C5-C6	-5.07	114.86	117.40
3	A1	1487	G	C6-C5-N7	-5.07	127.36	130.40
20	AU	105	GLU	CB-CA-C	5.07	120.55	110.40
22	AW	110	VAL	CA-CB-CG1	5.07	118.51	110.90
25	BB	775	G	C5-C6-O6	5.07	131.64	128.60
25	BB	1637	A	C8-N9-C4	5.07	107.83	105.80
25	BB	1699	G	N1-C2-N2	5.07	120.77	116.20
25	BB	1789	A	O5'-P-OP2	-5.07	101.13	105.70
25	BB	2208	C	C2'-C3'-O3'	5.07	121.82	113.70
25	BB	2590	A	C2-N3-C4	5.07	113.14	110.60
25	BB	2650	U	C3'-C2'-C1'	5.07	105.56	101.50
25	BB	2730	C	C5'-C4'-O4'	5.07	115.19	109.10
48	BY	101	PHE	CB-CG-CD1	-5.07	117.25	120.80
49	BZ	71	GLU	OE1-CD-OE2	-5.07	117.21	123.30
52	B3	138	GLN	N-CA-CB	-5.07	101.47	110.60
3	A1	127	G	C4-C5-C6	-5.07	115.76	118.80
3	A1	624	C	C3'-C2'-C1'	5.07	105.56	101.50
3	A1	772	U	C3'-C2'-C1'	5.07	105.56	101.50
25	BB	98	G	C4-N9-C1'	-5.07	119.91	126.50
25	BB	115	C	N3-C4-C5	5.07	123.93	121.90
25	BB	271	G	C4-N9-C1'	-5.07	119.91	126.50
25	BB	440	C	C5-C6-N1	-5.07	118.46	121.00
25	BB	574	A	C4'-C3'-C2'	-5.07	97.53	102.60
25	BB	624	C	N1-C2-O2	5.07	121.94	118.90
25	BB	679	C	OP2-P-O3'	5.07	116.36	105.20
25	BB	904	G	C8-N9-C4	5.07	108.43	106.40
25	BB	929	U	C6-N1-C2	-5.07	117.96	121.00
25	BB	2102	G	C5-N7-C8	5.07	106.84	104.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2275	C	N3-C4-C5	5.07	123.93	121.90
25	BB	2519	U	C5-C6-N1	-5.07	120.16	122.70
25	BB	2689	U	N3-C2-O2	-5.07	118.65	122.20
25	BB	2750	A	P-O3'-C3'	5.07	125.79	119.70
1	AP	39	U	N1-C2-N3	5.07	117.94	114.90
3	A1	274	A	C5'-C4'-C3'	-5.07	107.89	116.00
3	A1	278	G	C2-N3-C4	5.07	114.44	111.90
3	A1	354	G	C1'-O4'-C4'	5.07	113.96	109.90
3	A1	488	C	O4'-C1'-N1	5.07	112.26	108.20
3	A1	570	G	N1-C2-N3	5.07	126.94	123.90
3	A1	603	U	C5-C6-N1	-5.07	120.16	122.70
3	A1	995	C	N3-C4-N4	5.07	121.55	118.00
3	A1	1168	U	C5-C4-O4	5.07	128.94	125.90
25	BB	174	U	N1-C2-N3	5.07	117.94	114.90
25	BB	220	G	P-O3'-C3'	5.07	125.79	119.70
25	BB	1020	A	N1-C2-N3	5.07	131.84	129.30
25	BB	1035	U	N3-C2-O2	-5.07	118.65	122.20
25	BB	1066	U	O4'-C1'-N1	-5.07	104.14	108.20
25	BB	1183	U	OP1-P-OP2	-5.07	111.99	119.60
25	BB	1297	C	C5-C4-N4	5.07	123.75	120.20
25	BB	1363	C	O3'-P-O5'	5.07	113.63	104.00
25	BB	1652	A	N7-C8-N9	5.07	116.33	113.80
25	BB	2389	G	N9-C1'-C2'	5.07	120.59	114.00
25	BB	2446	G	C4-C5-C6	-5.07	115.76	118.80
25	BB	2633	G	N3-C2-N2	-5.07	116.35	119.90
25	BB	2749	A	P-O3'-C3'	5.07	125.78	119.70
25	BB	2872	A	C5-N7-C8	-5.07	101.36	103.90
25	BB	2900	A	N3-C4-C5	-5.07	123.25	126.80
35	BL	84	ARG	NE-CZ-NH1	5.07	122.83	120.30
53	B4	134	VAL	CA-CB-CG1	5.07	118.51	110.90
1	AP	34	G	O4'-C1'-N9	5.07	112.25	108.20
3	A1	127	G	O3'-P-O5'	-5.07	94.37	104.00
3	A1	167	A	N3-C4-N9	-5.07	123.34	127.40
3	A1	513	C	N1-C2-N3	5.07	122.75	119.20
3	A1	1022	A	C8-N9-C4	5.07	107.83	105.80
3	A1	1166	G	N1-C6-O6	-5.07	116.86	119.90
3	A1	1357	A	C4'-C3'-C2'	-5.07	97.53	102.60
3	A1	1438	G	C5-C6-O6	-5.07	125.56	128.60
25	BB	368	A	O4'-C1'-N9	-5.07	104.14	108.20
25	BB	733	G	N7-C8-N9	5.07	115.64	113.10
25	BB	747	U	N1-C2-N3	5.07	117.94	114.90
25	BB	1737	G	P-O5'-C5'	5.07	129.01	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2050	C	C4'-C3'-C2'	-5.07	97.53	102.60
25	BB	2710	C	N1-C1'-C2'	5.07	120.59	114.00
1	AA	70	C	O4'-C1'-C2'	5.07	112.16	107.60
3	A1	340	U	C3'-C2'-C1'	-5.07	97.45	101.50
3	A1	1150	A	C4-C5-C6	-5.07	114.47	117.00
3	A1	1188	A	C5-C6-N6	5.07	127.75	123.70
3	A1	1428	A	C5-C6-N6	5.07	127.75	123.70
25	BB	84	A	N3-C4-C5	-5.07	123.25	126.80
25	BB	348	A	C5'-C4'-C3'	-5.07	107.89	116.00
25	BB	410	G	C5-C6-O6	5.07	131.64	128.60
25	BB	1339	G	C5-C6-O6	5.07	131.64	128.60
25	BB	1360	G	C5'-C4'-C3'	-5.07	107.89	116.00
25	BB	1626	A	C3'-C2'-C1'	5.07	105.55	101.50
25	BB	1635	A	N9-C4-C5	-5.07	103.77	105.80
25	BB	2008	C	C4'-C3'-C2'	-5.07	97.53	102.60
25	BB	2068	U	O4'-C1'-N1	-5.07	104.15	108.20
25	BB	2452	C	C2-N3-C4	-5.07	117.37	119.90
31	BH	53	THR	C-N-CA	5.07	134.37	121.70
50	B1	197	GLU	OE1-CD-OE2	-5.07	117.22	123.30
1	AA	36	A	P-O3'-C3'	5.07	125.78	119.70
1	AA	62	A	C2-N3-C4	5.07	113.13	110.60
1	AE	55	U	O4'-C4'-C3'	-5.07	98.93	104.00
3	A1	275	G	N3-C4-N9	5.07	129.04	126.00
3	A1	457	G	C4'-C3'-C2'	-5.07	97.53	102.60
3	A1	469	C	C2-N3-C4	-5.07	117.37	119.90
3	A1	766	A	O5'-P-OP2	-5.07	101.14	105.70
3	A1	790	A	C4-C5-C6	-5.07	114.47	117.00
3	A1	899	C	C4-C5-C6	-5.07	114.87	117.40
3	A1	1280	A	C5-C6-N1	5.07	120.23	117.70
3	A1	1523	G	N1-C2-N3	5.07	126.94	123.90
24	BA	11	C	O4'-C4'-C3'	5.07	110.15	106.10
25	BB	62	U	C5-C6-N1	-5.07	120.17	122.70
25	BB	138	U	N3-C4-C5	5.07	117.64	114.60
25	BB	582	A	N9-C4-C5	5.07	107.83	105.80
25	BB	608	A	O4'-C4'-C3'	-5.07	98.93	104.00
25	BB	1044	C	N1-C1'-C2'	-5.07	106.43	112.00
25	BB	1091	G	N9-C4-C5	5.07	107.43	105.40
25	BB	1471	G	C6-C5-N7	5.07	133.44	130.40
25	BB	1776	G	O4'-C1'-C2'	-5.07	100.73	105.80
25	BB	1895	C	C2-N3-C4	-5.07	117.37	119.90
25	BB	1964	G	N1-C2-N2	-5.07	111.64	116.20
25	BB	2302	U	C3'-C2'-C1'	5.07	105.55	101.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2406	A	C5-C6-N6	5.07	127.75	123.70
25	BB	2758	A	C5'-C4'-C3'	-5.07	107.90	116.00
25	BB	2802	G	N9-C1'-C2'	-5.07	106.43	112.00
34	BK	72	VAL	CG1-CB-CG2	-5.07	102.80	110.90
51	B2	175	PRO	N-CD-CG	5.07	110.80	103.20
55	B6	36	LEU	C-N-CA	5.07	134.36	121.70
3	A1	342	C	N1-C2-N3	5.06	122.75	119.20
3	A1	1227	A	C5-C6-N6	5.06	127.75	123.70
3	A1	1425	U	C5-C6-N1	-5.06	120.17	122.70
25	BB	308	G	C4-N9-C1'	5.06	133.08	126.50
25	BB	548	G	C5'-C4'-O4'	-5.06	103.02	109.10
25	BB	957	C	O4'-C1'-C2'	5.06	112.16	107.60
25	BB	1034	G	C1'-O4'-C4'	-5.06	105.85	109.90
25	BB	1332	G	N3-C4-C5	-5.06	126.07	128.60
25	BB	1860	G	N3-C2-N2	-5.06	116.36	119.90
25	BB	2270	A	O5'-C5'-C4'	-5.06	102.08	111.70
25	BB	2593	U	N3-C2-O2	-5.06	118.66	122.20
25	BB	2751	G	C5-N7-C8	5.06	106.83	104.30
25	BB	2821	A	C6-C5-N7	-5.06	128.75	132.30
1	AA	27	C	C5'-C4'-C3'	5.06	124.10	116.00
1	AP	12	U	C2-N3-C4	5.06	130.04	127.00
3	A1	481	G	N7-C8-N9	5.06	115.63	113.10
3	A1	482	A	C5'-C4'-C3'	-5.06	107.90	116.00
3	A1	499	A	N7-C8-N9	-5.06	111.27	113.80
3	A1	617	G	O3'-P-O5'	-5.06	94.38	104.00
3	A1	822	U	C5-C6-N1	-5.06	120.17	122.70
3	A1	979	C	C3'-C2'-C1'	5.06	105.55	101.50
3	A1	1164	G	O4'-C1'-N9	5.06	112.25	108.20
3	A1	1298	U	N3-C4-C5	5.06	117.64	114.60
11	AJ	42	LYS	CB-CA-C	5.06	120.52	110.40
25	BB	113	U	C5'-C4'-O4'	-5.06	103.02	109.10
25	BB	344	A	N9-C4-C5	5.06	107.83	105.80
25	BB	660	C	P-O3'-C3'	-5.06	113.62	119.70
25	BB	1168	G	C6-N1-C2	-5.06	122.06	125.10
25	BB	1218	G	C3'-C2'-C1'	5.06	105.55	101.50
25	BB	1325	U	O4'-C1'-N1	5.06	112.25	108.20
25	BB	1327	A	C2-N3-C4	5.06	113.13	110.60
25	BB	1649	G	N9-C1'-C2'	5.06	120.58	114.00
25	BB	1707	G	N9-C1'-C2'	5.06	120.58	114.00
25	BB	1773	A	P-O3'-C3'	-5.06	113.62	119.70
25	BB	1819	A	N1-C2-N3	-5.06	126.77	129.30
25	BB	2030	A	C6-C5-N7	5.06	135.84	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2069	G	C4-C5-C6	-5.06	115.76	118.80
25	BB	2505	G	O4'-C4'-C3'	5.06	110.15	106.10
3	A1	107	G	N1-C2-N3	5.06	126.94	123.90
3	A1	448	A	C1'-O4'-C4'	5.06	113.95	109.90
3	A1	759	A	N9-C4-C5	5.06	107.82	105.80
3	A1	878	A	C6-N1-C2	-5.06	115.56	118.60
25	BB	711	G	N3-C4-N9	5.06	129.04	126.00
25	BB	1736	U	O4'-C4'-C3'	5.06	110.15	106.10
25	BB	2383	G	C6-N1-C2	-5.06	122.06	125.10
45	BV	19	ARG	O-C-N	-5.06	114.60	122.70
3	A1	100	G	N1-C6-O6	-5.06	116.86	119.90
3	A1	151	A	C4-C5-N7	5.06	113.23	110.70
3	A1	406	G	C5'-C4'-C3'	-5.06	107.91	116.00
3	A1	656	G	O4'-C1'-C2'	-5.06	100.74	105.80
3	A1	1211	U	N1-C2-O2	5.06	126.34	122.80
3	A1	1361	G	C2-N3-C4	5.06	114.43	111.90
3	A1	1473	G	C3'-C2'-C1'	5.06	105.55	101.50
25	BB	291	G	O5'-P-OP2	5.06	116.77	110.70
25	BB	383	C	C4-C5-C6	5.06	119.93	117.40
25	BB	736	C	N3-C4-N4	-5.06	114.46	118.00
25	BB	1014	A	C5-C6-N6	5.06	127.75	123.70
25	BB	1521	G	N1-C6-O6	-5.06	116.86	119.90
25	BB	1905	C	N3-C4-C5	5.06	123.92	121.90
25	BB	2570	G	C8-N9-C1'	5.06	133.58	127.00
25	BB	2593	U	C1'-O4'-C4'	-5.06	105.85	109.90
28	BE	70	LYS	CA-C-O	-5.06	109.47	120.10
3	A1	260	G	O4'-C1'-C2'	-5.06	100.74	105.80
3	A1	720	C	N1-C2-O2	-5.06	115.86	118.90
3	A1	791	G	C6-N1-C2	-5.06	122.07	125.10
3	A1	1014	A	N7-C8-N9	-5.06	111.27	113.80
3	A1	1026	G	C1'-O4'-C4'	-5.06	105.85	109.90
3	A1	1100	C	C4'-C3'-O3'	-5.06	98.78	109.40
3	A1	1105	A	C6-C5-N7	5.06	135.84	132.30
3	A1	1421	G	C6-N1-C2	-5.06	122.06	125.10
3	A1	1472	U	C5-C4-O4	5.06	128.94	125.90
3	A1	1508	A	C2-N3-C4	5.06	113.13	110.60
24	BA	18	G	C5-C6-O6	-5.06	125.57	128.60
24	BA	52	A	C6-N1-C2	-5.06	115.57	118.60
24	BA	72	G	N7-C8-N9	5.06	115.63	113.10
25	BB	109	C	C6-N1-C1'	5.06	126.87	120.80
25	BB	646	U	C4-C5-C6	5.06	122.73	119.70
25	BB	1213	A	C5'-C4'-C3'	-5.06	107.91	116.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1784	A	O5'-P-OP2	-5.06	101.15	105.70
25	BB	1786	A	O4'-C1'-C2'	-5.06	100.74	105.80
25	BB	1817	G	C4-C5-N7	5.06	112.82	110.80
25	BB	1901	A	O4'-C1'-N9	5.06	112.25	108.20
25	BB	2289	G	N9-C4-C5	5.06	107.42	105.40
25	BB	2507	C	C3'-C2'-C1'	5.06	105.55	101.50
37	BN	107	LYS	CB-CA-C	5.06	120.51	110.40
1	AE	34	G	C5'-C4'-O4'	5.06	115.17	109.10
3	A1	535	A	C6-N1-C2	5.06	121.63	118.60
3	A1	738	C	C3'-C2'-C1'	5.06	105.55	101.50
3	A1	1517	G	N9-C4-C5	5.06	107.42	105.40
3	A1	1527	U	C5-C4-O4	-5.06	122.87	125.90
25	BB	733	G	C4-C5-N7	-5.06	108.78	110.80
25	BB	2054	A	N7-C8-N9	5.06	116.33	113.80
25	BB	2382	G	C6-C5-N7	5.06	133.43	130.40
25	BB	2810	A	O4'-C4'-C3'	5.06	110.14	106.10
55	B6	89	PHE	CB-CG-CD2	-5.06	117.26	120.80
3	A1	179	A	C4'-C3'-C2'	5.05	107.66	102.60
3	A1	409	U	C2-N3-C4	-5.05	123.97	127.00
3	A1	956	U	N1-C2-O2	5.05	126.34	122.80
3	A1	1033	G	C5'-C4'-C3'	-5.05	107.91	116.00
3	A1	1040	U	C5'-C4'-C3'	-5.05	107.91	116.00
3	A1	1180	A	O5'-C5'-C4'	-5.05	102.10	111.70
3	A1	1290	G	N3-C4-N9	5.05	129.03	126.00
3	A1	1299	A	N3-C4-N9	-5.05	123.36	127.40
3	A1	1442	G	N9-C4-C5	5.05	107.42	105.40
25	BB	77	G	C4'-C3'-C2'	5.05	107.65	102.60
25	BB	766	U	N3-C4-O4	5.05	122.94	119.40
25	BB	989	G	C5-N7-C8	-5.05	101.77	104.30
25	BB	1632	A	C5-C6-N6	5.05	127.74	123.70
25	BB	1909	C	N1-C2-O2	5.05	121.93	118.90
25	BB	2209	G	N7-C8-N9	5.05	115.63	113.10
25	BB	2322	A	C5-C6-N6	5.05	127.74	123.70
25	BB	2642	G	N1-C2-N3	5.05	126.93	123.90
25	BB	2767	C	C4-C5-C6	5.05	119.93	117.40
25	BB	2877	G	O3'-P-O5'	5.05	113.60	104.00
25	BB	2897	U	O4'-C4'-C3'	5.05	110.14	106.10
27	BD	70	ARG	CD-NE-CZ	5.05	130.68	123.60
3	A1	155	A	N3-C4-C5	5.05	130.34	126.80
3	A1	574	A	N9-C1'-C2'	5.05	120.57	114.00
3	A1	895	G	P-O3'-C3'	5.05	125.76	119.70
21	AV	39	LEU	CB-CG-CD1	5.05	119.59	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	375	G	C3'-C2'-C1'	5.05	105.54	101.50
25	BB	899	A	C4-C5-N7	-5.05	108.17	110.70
25	BB	2319	G	C6-C5-N7	5.05	133.43	130.40
25	BB	2433	A	C5-C6-N1	5.05	120.23	117.70
25	BB	2575	C	C6-N1-C2	-5.05	118.28	120.30
34	BK	29	THR	C-N-CA	5.05	132.91	122.30
1	AA	26	G	O5'-P-OP2	-5.05	101.15	105.70
1	AP	61	C	P-O5'-C5'	5.05	128.98	120.90
3	A1	224	U	C1'-O4'-C4'	-5.05	105.86	109.90
3	A1	380	G	C5-C6-O6	5.05	131.63	128.60
3	A1	623	C	C1'-O4'-C4'	5.05	113.94	109.90
3	A1	745	G	O4'-C1'-N9	5.05	112.24	108.20
3	A1	987	G	C6-N1-C2	-5.05	122.07	125.10
3	A1	1054	C	C5-C4-N4	-5.05	116.66	120.20
3	A1	1154	G	C2-N3-C4	5.05	114.43	111.90
3	A1	1336	C	C5'-C4'-O4'	-5.05	103.04	109.10
3	A1	1452	C	C5-C4-N4	5.05	123.73	120.20
25	BB	99	U	O4'-C1'-N1	5.05	112.24	108.20
25	BB	647	G	C5-C6-N1	5.05	114.03	111.50
25	BB	800	A	O3'-P-O5'	-5.05	94.40	104.00
25	BB	1276	A	N3-C4-N9	-5.05	123.36	127.40
25	BB	1479	G	C4-N9-C1'	-5.05	119.93	126.50
25	BB	1491	G	O4'-C4'-C3'	-5.05	98.95	104.00
25	BB	1683	U	C5-C6-N1	-5.05	120.17	122.70
25	BB	1766	G	P-O5'-C5'	5.05	128.98	120.90
25	BB	2116	G	C6-C5-N7	5.05	133.43	130.40
25	BB	2143	C	N1-C1'-C2'	-5.05	106.44	112.00
25	BB	2678	C	C6-N1-C2	-5.05	118.28	120.30
25	BB	2835	A	C4'-C3'-C2'	-5.05	97.55	102.60
1	AP	65	G	C8-N9-C1'	5.05	133.56	127.00
1	AE	16	U	C5'-C4'-O4'	5.05	115.16	109.10
1	AE	54	U	O4'-C4'-C3'	5.05	110.14	106.10
3	A1	151	A	C4'-C3'-C2'	-5.05	97.55	102.60
3	A1	168	G	C2-N3-C4	5.05	114.42	111.90
3	A1	515	G	N3-C2-N2	-5.05	116.37	119.90
3	A1	607	A	N9-C1'-C2'	5.05	120.56	114.00
3	A1	729	A	C4-C5-C6	-5.05	114.47	117.00
3	A1	1027	C	N1-C2-O2	5.05	121.93	118.90
25	BB	91	A	C8-N9-C4	-5.05	103.78	105.80
25	BB	123	G	C6-N1-C2	-5.05	122.07	125.10
25	BB	214	G	O3'-P-O5'	5.05	113.59	104.00
25	BB	476	G	N3-C2-N2	-5.05	116.37	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1113	U	C1'-O4'-C4'	5.05	113.94	109.90
25	BB	1212	G	P-O3'-C3'	5.05	125.76	119.70
25	BB	1466	U	P-O3'-C3'	5.05	125.76	119.70
25	BB	1543	G	N1-C2-N3	5.05	126.93	123.90
25	BB	1677	A	C6-C5-N7	5.05	135.83	132.30
25	BB	2091	C	N3-C4-N4	-5.05	114.47	118.00
25	BB	2329	U	C5-C6-N1	-5.05	120.18	122.70
25	BB	2807	U	C3'-C2'-C1'	5.05	105.54	101.50
1	AA	20	G	C1'-O4'-C4'	-5.05	105.86	109.90
1	AA	30	G	N1-C2-N2	-5.05	111.66	116.20
3	A1	194	C	C5'-C4'-C3'	-5.05	107.92	116.00
3	A1	264	C	N3-C4-C5	5.05	123.92	121.90
3	A1	461	A	C4'-C3'-C2'	-5.05	97.55	102.60
3	A1	531	U	N3-C4-C5	5.05	117.63	114.60
3	A1	590	U	C3'-C2'-C1'	5.05	105.54	101.50
3	A1	624	C	N1-C2-N3	5.05	122.73	119.20
3	A1	1421	G	C5-C6-N1	5.05	114.02	111.50
3	A1	1472	U	C4'-C3'-C2'	-5.05	97.55	102.60
18	AS	123	LEU	C-N-CA	5.05	134.32	121.70
25	BB	563	A	C6-N1-C2	-5.05	115.57	118.60
25	BB	1401	G	C6-C5-N7	-5.05	127.37	130.40
25	BB	2280	G	N3-C4-C5	-5.05	126.08	128.60
48	BY	172	VAL	CA-CB-CG1	5.05	118.47	110.90
1	AA	4	G	N1-C2-N3	5.05	126.93	123.90
3	A1	493	A	N9-C1'-C2'	-5.05	106.45	112.00
3	A1	548	G	N3-C4-N9	5.05	129.03	126.00
3	A1	589	U	C1'-O4'-C4'	-5.05	105.86	109.90
3	A1	1490	U	O4'-C1'-N1	5.05	112.24	108.20
25	BB	213	A	C6-C5-N7	5.05	135.83	132.30
25	BB	471	A	P-O3'-C3'	5.05	125.75	119.70
25	BB	553	G	C5-C6-N1	-5.05	108.98	111.50
25	BB	1068	G	O4'-C1'-C2'	-5.05	100.75	105.80
25	BB	1344	U	C4-C5-C6	5.05	122.73	119.70
25	BB	1708	C	N3-C4-C5	5.05	123.92	121.90
25	BB	2070	A	O3'-P-O5'	5.05	113.59	104.00
25	BB	2179	C	N1-C2-N3	5.05	122.73	119.20
25	BB	2237	G	C6-C5-N7	5.05	133.43	130.40
25	BB	2509	G	C4-C5-C6	5.05	121.83	118.80
32	BI	97	TYR	CB-CG-CD2	-5.05	117.97	121.00
55	B6	99	ARG	NE-CZ-NH2	5.05	122.82	120.30
1	AA	31	A	C5'-C4'-C3'	-5.04	107.93	116.00
1	AP	47	U	C5-C6-N1	-5.04	120.18	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AE	4	G	C4-C5-C6	5.04	121.83	118.80
3	A1	13	U	C6-N1-C2	-5.04	117.97	121.00
3	A1	741	G	C6-C5-N7	5.04	133.43	130.40
3	A1	847	G	N1-C2-N2	-5.04	111.66	116.20
3	A1	1063	C	C5-C4-N4	5.04	123.73	120.20
3	A1	1197	A	C4-C5-N7	-5.04	108.18	110.70
3	A1	1432	G	C5'-C4'-O4'	5.04	115.15	109.10
14	AN	10	ALA	CB-CA-C	5.04	117.67	110.10
25	BB	43	G	N3-C2-N2	-5.04	116.37	119.90
25	BB	216	A	N3-C4-N9	-5.04	123.36	127.40
52	B3	59	ASP	CB-CG-OD2	5.04	122.84	118.30
3	A1	984	C	N3-C4-C5	5.04	123.92	121.90
9	AH	68	TYR	CD1-CE1-CZ	-5.04	115.26	119.80
15	AO	185	THR	CA-CB-CG2	5.04	119.46	112.40
24	BA	88	C	O4'-C1'-C2'	-5.04	100.76	105.80
24	BA	109	A	C6-N1-C2	5.04	121.63	118.60
25	BB	638	G	C4'-C3'-C2'	-5.04	97.56	102.60
25	BB	861	A	C4-C5-C6	-5.04	114.48	117.00
25	BB	1113	U	O5'-P-OP2	-5.04	101.16	105.70
25	BB	1176	U	C4'-C3'-C2'	-5.04	97.56	102.60
25	BB	1416	G	N1-C2-N3	5.04	126.93	123.90
25	BB	2003	A	C5-N7-C8	-5.04	101.38	103.90
25	BB	2067	G	O3'-P-O5'	-5.04	94.42	104.00
25	BB	2125	G	N3-C4-C5	-5.04	126.08	128.60
25	BB	2219	U	N3-C4-C5	-5.04	111.57	114.60
25	BB	2415	G	C4-C5-C6	5.04	121.83	118.80
25	BB	2526	G	O4'-C1'-N9	5.04	112.24	108.20
25	BB	2536	G	N3-C4-C5	-5.04	126.08	128.60
25	BB	2743	U	C6-N1-C2	-5.04	117.97	121.00
40	BQ	24	GLU	OE1-CD-OE2	-5.04	117.25	123.30
1	AA	46	G	N9-C4-C5	-5.04	103.38	105.40
1	AE	66	A	N7-C8-N9	-5.04	111.28	113.80
3	A1	146	G	C5-C6-O6	5.04	131.62	128.60
3	A1	1136	C	N1-C2-N3	5.04	122.73	119.20
3	A1	1196	A	C4-C5-C6	-5.04	114.48	117.00
3	A1	1340	A	N3-C4-C5	-5.04	123.27	126.80
3	A1	1372	U	C6-N1-C2	-5.04	117.97	121.00
3	A1	1395	C	C2-N1-C1'	5.04	124.35	118.80
3	A1	1428	A	N3-C4-C5	-5.04	123.27	126.80
4	AB	125	PHE	CB-CG-CD1	-5.04	117.27	120.80
24	BA	9	G	C5-C6-O6	-5.04	125.58	128.60
25	BB	673	C	O3'-P-O5'	-5.04	94.42	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1528	A	C5-N7-C8	5.04	106.42	103.90
25	BB	1690	A	N9-C1'-C2'	5.04	120.55	114.00
25	BB	1869	G	C5-C6-N1	5.04	114.02	111.50
25	BB	2578	G	C6-N1-C2	-5.04	122.08	125.10
25	BB	2682	A	C4-C5-C6	-5.04	114.48	117.00
3	A1	45	G	N3-C4-N9	-5.04	122.98	126.00
3	A1	608	A	C8-N9-C4	5.04	107.82	105.80
3	A1	1200	C	C2-N3-C4	-5.04	117.38	119.90
3	A1	1495	U	O5'-P-OP1	-5.04	101.16	105.70
24	BA	27	C	P-O3'-C3'	5.04	125.75	119.70
25	BB	917	A	C5-N7-C8	-5.04	101.38	103.90
25	BB	1246	A	C5-N7-C8	-5.04	101.38	103.90
25	BB	1353	A	O3'-P-O5'	5.04	113.58	104.00
25	BB	1405	U	O4'-C4'-C3'	5.04	110.13	106.10
25	BB	2110	G	C5-N7-C8	5.04	106.82	104.30
32	BI	52	ARG	CD-NE-CZ	5.04	130.66	123.60
1	AA	16	U	O3'-P-O5'	5.04	113.57	104.00
1	AP	43	G	C6-C5-N7	5.04	133.42	130.40
1	AE	12	U	O3'-P-O5'	5.04	113.58	104.00
3	A1	30	U	P-O3'-C3'	5.04	125.75	119.70
3	A1	488	C	C2'-C3'-O3'	5.04	121.76	113.70
3	A1	644	U	C5-C4-O4	5.04	128.92	125.90
3	A1	935	A	P-O3'-C3'	5.04	125.75	119.70
3	A1	1059	C	C5'-C4'-C3'	-5.04	107.94	116.00
3	A1	1318	A	N9-C4-C5	5.04	107.81	105.80
25	BB	49	A	O4'-C4'-C3'	-5.04	98.96	104.00
25	BB	270	A	N7-C8-N9	5.04	116.32	113.80
25	BB	442	G	C5-C6-O6	5.04	131.62	128.60
25	BB	1054	A	C6-C5-N7	5.04	135.83	132.30
25	BB	1266	G	C6-C5-N7	-5.04	127.38	130.40
25	BB	1914	C	C5-C4-N4	-5.04	116.67	120.20
25	BB	1955	U	C1'-O4'-C4'	-5.04	105.87	109.90
25	BB	2179	C	C2-N1-C1'	5.04	124.34	118.80
25	BB	2217	G	C1'-O4'-C4'	-5.04	105.87	109.90
25	BB	2655	G	N1-C2-N2	-5.04	111.67	116.20
25	BB	2755	C	C5-C6-N1	-5.04	118.48	121.00
3	A1	905	U	C1'-O4'-C4'	-5.04	105.87	109.90
3	A1	1053	G	N7-C8-N9	5.04	115.62	113.10
3	A1	1248	A	C5-C6-N6	5.04	127.73	123.70
25	BB	1416	G	C2-N3-C4	5.04	114.42	111.90
25	BB	1678	A	N9-C4-C5	5.04	107.81	105.80
25	BB	2422	C	C4-C5-C6	-5.04	114.88	117.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	30	U	N3-C4-O4	5.04	122.92	119.40
3	A1	559	A	O4'-C1'-N9	5.04	112.23	108.20
3	A1	708	C	C5-C6-N1	-5.04	118.48	121.00
3	A1	882	C	N1-C2-N3	5.04	122.72	119.20
3	A1	1322	C	C1'-O4'-C4'	-5.04	105.87	109.90
24	BA	50	A	C6-C5-N7	5.04	135.82	132.30
25	BB	161	A	C8-N9-C4	-5.04	103.79	105.80
25	BB	654	A	C8-N9-C4	-5.04	103.79	105.80
25	BB	708	G	C8-N9-C4	-5.04	104.39	106.40
25	BB	897	C	O4'-C4'-C3'	5.04	110.13	106.10
25	BB	1068	G	N1-C2-N3	5.04	126.92	123.90
25	BB	1323	C	N1-C2-N3	5.04	122.72	119.20
25	BB	1462	C	N1-C1'-C2'	5.04	120.55	114.00
25	BB	1561	C	N3-C4-N4	-5.04	114.47	118.00
25	BB	1639	C	N1-C2-N3	5.04	122.72	119.20
25	BB	1690	A	C5'-C4'-O4'	5.04	115.14	109.10
25	BB	2110	G	C1'-O4'-C4'	-5.04	105.87	109.90
25	BB	2182	U	C5-C6-N1	-5.04	120.18	122.70
25	BB	2340	A	C4'-C3'-C2'	-5.04	97.56	102.60
25	BB	2405	G	C4-C5-N7	-5.04	108.79	110.80
25	BB	2452	C	N3-C4-N4	-5.04	114.48	118.00
25	BB	2659	G	C4-N9-C1'	-5.04	119.95	126.50
25	BB	2710	C	N1-C2-N3	5.04	122.72	119.20
1	AA	42	G	C4-N9-C1'	-5.03	119.95	126.50
3	A1	64	G	N9-C1'-C2'	5.03	120.54	114.00
3	A1	150	U	N3-C2-O2	-5.03	118.68	122.20
3	A1	498	A	O4'-C1'-C2'	5.03	112.13	107.60
3	A1	557	G	C5-C6-N1	5.03	114.02	111.50
3	A1	798	U	C5'-C4'-C3'	-5.03	107.95	116.00
3	A1	875	U	N3-C4-C5	-5.03	111.58	114.60
24	BA	28	C	N1-C2-O2	-5.03	115.88	118.90
25	BB	10	A	C4'-C3'-C2'	5.03	107.63	102.60
25	BB	377	G	N3-C2-N2	-5.03	116.38	119.90
25	BB	476	G	N3-C4-N9	5.03	129.02	126.00
25	BB	668	A	OP2-P-O3'	5.03	116.27	105.20
25	BB	1433	A	C4-C5-N7	5.03	113.22	110.70
25	BB	1450	G	N1-C6-O6	-5.03	116.88	119.90
25	BB	1519	G	C6-N1-C2	-5.03	122.08	125.10
25	BB	1797	G	C5'-C4'-C3'	-5.03	107.95	116.00
25	BB	1799	G	C5'-C4'-C3'	-5.03	107.95	116.00
25	BB	2156	G	C2-N3-C4	5.03	114.42	111.90
25	BB	2577	A	N9-C4-C5	-5.03	103.79	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	2861	U	C4'-C3'-C2'	-5.03	97.57	102.60
31	BH	69	ASP	OD1-CG-OD2	-5.03	113.74	123.30
51	B2	172	PHE	CB-CG-CD1	5.03	124.32	120.80
1	AE	34	G	C4-C5-N7	-5.03	108.79	110.80
3	A1	624	C	O4'-C1'-C2'	-5.03	100.77	105.80
3	A1	867	G	C8-N9-C1'	5.03	133.54	127.00
3	A1	899	C	C5-C4-N4	-5.03	116.68	120.20
3	A1	904	U	C2-N3-C4	-5.03	123.98	127.00
3	A1	1127	G	N1-C6-O6	-5.03	116.88	119.90
21	AV	50	VAL	CA-CB-CG1	5.03	118.45	110.90
24	BA	38	C	C4'-C3'-C2'	-5.03	97.57	102.60
25	BB	301	G	C6-N1-C2	-5.03	122.08	125.10
25	BB	1681	G	C3'-C2'-C1'	5.03	105.53	101.50
1	AP	19	G	N3-C4-N9	-5.03	122.98	126.00
3	A1	16	A	C8-N9-C4	-5.03	103.79	105.80
3	A1	545	C	C5-C6-N1	-5.03	118.48	121.00
3	A1	1112	C	N3-C2-O2	-5.03	118.38	121.90
3	A1	1301	U	P-O3'-C3'	5.03	125.74	119.70
16	AQ	33	ARG	NE-CZ-NH1	5.03	122.81	120.30
24	BA	83	G	C4'-C3'-C2'	-5.03	97.57	102.60
24	BA	85	G	N1-C2-N2	5.03	120.73	116.20
25	BB	26	G	C3'-C2'-C1'	-5.03	97.47	101.50
25	BB	39	G	C4-C5-C6	-5.03	115.78	118.80
25	BB	594	U	C6-N1-C2	-5.03	117.98	121.00
25	BB	631	A	C6-N1-C2	-5.03	115.58	118.60
25	BB	734	A	O4'-C1'-C2'	5.03	112.13	107.60
25	BB	977	G	C5'-C4'-C3'	-5.03	107.95	116.00
25	BB	992	C	C5-C4-N4	5.03	123.72	120.20
25	BB	1805	A	N9-C4-C5	5.03	107.81	105.80
25	BB	1997	C	O4'-C1'-N1	5.03	112.22	108.20
25	BB	2007	U	N1-C2-O2	-5.03	119.28	122.80
25	BB	2221	G	C5'-C4'-C3'	-5.03	107.95	116.00
25	BB	2685	G	N3-C4-N9	5.03	129.02	126.00
25	BB	2805	C	O4'-C1'-C2'	5.03	112.13	107.60
25	BB	2811	G	C5-C6-N1	5.03	114.02	111.50
49	BZ	66	VAL	CA-CB-CG1	5.03	118.44	110.90
3	A1	578	C	C5-C6-N1	-5.03	118.49	121.00
3	A1	1109	C	N3-C4-C5	5.03	123.91	121.90
25	BB	47	C	C4-C5-C6	5.03	119.91	117.40
25	BB	1578	U	C3'-C2'-C1'	-5.03	97.48	101.50
25	BB	1733	G	C5'-C4'-C3'	-5.03	107.95	116.00
25	BB	1753	G	C2-N3-C4	5.03	114.41	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	1829	A	C1'-O4'-C4'	-5.03	105.88	109.90
25	BB	1830	C	N1-C2-N3	5.03	122.72	119.20
25	BB	2249	U	P-O3'-C3'	5.03	125.73	119.70
25	BB	2502	G	C4'-C3'-C2'	-5.03	97.57	102.60
25	BB	2531	A	C5-C6-N6	5.03	127.72	123.70
25	BB	2652	C	C5-C6-N1	5.03	123.52	121.00
49	BZ	194	ALA	CB-CA-C	5.03	117.64	110.10
1	AA	54	U	C5'-C4'-C3'	-5.03	107.96	116.00
1	AE	35	A	C6-C5-N7	-5.03	128.78	132.30
3	A1	174	A	C6-N1-C2	-5.03	115.58	118.60
3	A1	296	U	C2-N3-C4	-5.03	123.98	127.00
3	A1	476	U	OP2-P-O3'	5.03	116.26	105.20
3	A1	530	G	O3'-P-O5'	-5.03	94.45	104.00
3	A1	591	U	N1-C2-N3	5.03	117.92	114.90
3	A1	1195	C	O3'-P-O5'	5.03	113.55	104.00
4	AB	62	ARG	CD-NE-CZ	5.03	130.64	123.60
25	BB	177	G	N1-C2-N3	-5.03	120.88	123.90
25	BB	451	U	N3-C4-O4	5.03	122.92	119.40
25	BB	593	U	O5'-P-OP2	-5.03	101.17	105.70
25	BB	626	A	C4-C5-C6	-5.03	114.49	117.00
25	BB	931	U	C5-C6-N1	5.03	125.21	122.70
25	BB	1075	C	C6-N1-C1'	5.03	126.83	120.80
25	BB	1091	G	N1-C2-N3	5.03	126.92	123.90
25	BB	1417	C	C5'-C4'-C3'	-5.03	107.96	116.00
25	BB	1559	U	C5-C6-N1	-5.03	120.19	122.70
25	BB	1870	C	C4'-C3'-C2'	-5.03	97.57	102.60
25	BB	1946	U	N3-C2-O2	-5.03	118.68	122.20
25	BB	2078	C	P-O3'-C3'	5.03	125.73	119.70
25	BB	2544	G	O5'-P-OP2	-5.03	101.17	105.70
25	BB	2638	G	C5-C6-O6	5.03	131.62	128.60
25	BB	2754	U	C1'-O4'-C4'	5.03	113.92	109.90
25	BB	2780	G	N3-C2-N2	-5.03	116.38	119.90
1	AP	50	U	C5'-C4'-O4'	-5.03	103.07	109.10
3	A1	440	C	C5'-C4'-O4'	5.03	115.13	109.10
3	A1	499	A	O5'-C5'-C4'	-5.03	102.15	111.70
3	A1	809	G	N3-C4-C5	-5.03	126.09	128.60
3	A1	1125	U	N3-C2-O2	-5.03	118.68	122.20
3	A1	1184	G	C6-C5-N7	5.03	133.41	130.40
3	A1	1473	G	N3-C4-C5	-5.03	126.09	128.60
24	BA	77	U	N1-C2-O2	-5.03	119.28	122.80
25	BB	238	C	C5-C4-N4	-5.03	116.68	120.20
25	BB	424	G	C6-C5-N7	5.03	133.41	130.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	940	G	C8-N9-C1'	5.03	133.53	127.00
25	BB	1908	C	C4'-C3'-C2'	-5.03	97.57	102.60
25	BB	2112	G	C4-C5-N7	5.03	112.81	110.80
25	BB	2611	C	C2-N1-C1'	-5.03	113.27	118.80
25	BB	2751	G	O3'-P-O5'	5.03	113.55	104.00
25	BB	2803	G	C3'-C2'-C1'	-5.03	97.48	101.50
35	BL	99	ARG	N-CA-C	5.03	124.57	111.00
1	AA	33	U	C5'-C4'-C3'	5.02	124.04	116.00
3	A1	71	A	C4-C5-C6	-5.02	114.49	117.00
3	A1	263	A	C3'-C2'-C1'	5.02	105.52	101.50
15	AO	10	ARG	NH1-CZ-NH2	-5.02	113.87	119.40
24	BA	42	C	C4-C5-C6	-5.02	114.89	117.40
25	BB	574	A	N3-C4-N9	-5.02	123.38	127.40
25	BB	1237	A	C5-N7-C8	-5.02	101.39	103.90
25	BB	1638	C	N1-C2-N3	5.02	122.72	119.20
25	BB	1660	G	P-O3'-C3'	5.02	125.73	119.70
25	BB	1941	C	N3-C2-O2	-5.02	118.38	121.90
25	BB	2470	G	P-O5'-C5'	5.02	128.94	120.90
1	AA	73	A	O3'-P-O5'	5.02	113.54	104.00
1	AP	19	G	C5'-C4'-O4'	-5.02	103.07	109.10
3	A1	871	U	O5'-P-OP1	5.02	116.73	110.70
3	A1	979	C	N1-C2-N3	5.02	122.72	119.20
3	A1	1071	C	N1-C2-O2	5.02	121.91	118.90
5	AC	17	ASP	O-C-N	-5.02	114.66	123.20
8	AG	69	PRO	CA-N-CD	-5.02	104.47	111.50
24	BA	27	C	N3-C4-C5	5.02	123.91	121.90
25	BB	24	G	N9-C4-C5	5.02	107.41	105.40
25	BB	280	U	N1-C2-N3	5.02	117.91	114.90
25	BB	608	A	N3-C4-C5	-5.02	123.28	126.80
25	BB	891	G	C1'-C2'-O2'	-5.02	95.53	110.60
25	BB	924	G	C5-C6-O6	5.02	131.61	128.60
25	BB	968	C	C5-C4-N4	-5.02	116.69	120.20
25	BB	1048	A	C6-N1-C2	-5.02	115.59	118.60
25	BB	1057	A	C2-N3-C4	5.02	113.11	110.60
25	BB	1422	G	O4'-C4'-C3'	5.02	110.12	106.10
25	BB	1454	C	O5'-P-OP1	5.02	116.73	110.70
25	BB	1895	C	C5'-C4'-O4'	5.02	115.13	109.10
25	BB	2338	C	O5'-C5'-C4'	-5.02	102.16	111.70
25	BB	2535	G	C5'-C4'-C3'	-5.02	107.96	116.00
25	BB	2693	G	C4-C5-C6	-5.02	115.79	118.80
25	BB	2789	C	C2'-C3'-O3'	5.02	121.74	113.70
3	A1	670	G	N1-C2-N2	5.02	120.72	116.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	AB	72	LYS	C-N-CA	5.02	134.25	121.70
19	AT	22	ILE	O-C-N	-5.02	114.67	122.70
25	BB	174	U	C2-N3-C4	-5.02	123.99	127.00
25	BB	595	C	N1-C2-N3	5.02	122.72	119.20
25	BB	1101	U	N3-C4-O4	5.02	122.91	119.40
25	BB	2345	G	C2'-C3'-O3'	5.02	121.73	113.70
38	BO	97	SER	C-N-CA	5.02	134.25	121.70
1	AE	28	C	C5'-C4'-O4'	5.02	115.12	109.10
3	A1	324	G	C5-C6-O6	5.02	131.61	128.60
3	A1	391	G	N3-C4-C5	5.02	131.11	128.60
3	A1	1341	U	C5-C6-N1	-5.02	120.19	122.70
3	A1	1528	U	OP2-P-O3'	5.02	116.24	105.20
25	BB	1	G	C5-C6-N1	5.02	114.01	111.50
25	BB	192	C	C4-C5-C6	5.02	119.91	117.40
25	BB	443	A	N9-C4-C5	5.02	107.81	105.80
25	BB	473	G	C5-N7-C8	-5.02	101.79	104.30
25	BB	535	G	N3-C4-N9	5.02	129.01	126.00
25	BB	655	A	O4'-C1'-N9	5.02	112.22	108.20
25	BB	940	G	N1-C2-N3	-5.02	120.89	123.90
25	BB	1254	A	O3'-P-O5'	5.02	113.54	104.00
25	BB	1353	A	N1-C2-N3	5.02	131.81	129.30
25	BB	1583	A	C6-C5-N7	5.02	135.81	132.30
25	BB	1586	A	O4'-C1'-N9	-5.02	104.18	108.20
25	BB	1613	G	N3-C4-C5	-5.02	126.09	128.60
25	BB	1709	U	N3-C4-O4	-5.02	115.89	119.40
25	BB	2265	U	C5'-C4'-C3'	-5.02	107.97	116.00
25	BB	2355	G	N1-C6-O6	-5.02	116.89	119.90
25	BB	2360	G	C8-N9-C4	5.02	108.41	106.40
25	BB	2547	A	O4'-C4'-C3'	5.02	110.12	106.10
25	BB	2554	U	P-O3'-C3'	5.02	125.72	119.70
25	BB	2639	A	P-O3'-C3'	5.02	125.72	119.70
34	BK	79	ARG	CG-CD-NE	5.02	122.34	111.80
50	B1	2	GLU	OE1-CD-OE2	5.02	129.32	123.30
1	AP	45	G	C5-C6-N1	5.02	114.01	111.50
1	AE	56	C	C5-C6-N1	-5.02	118.49	121.00
3	A1	69	G	C4-C5-N7	-5.02	108.79	110.80
3	A1	176	C	C5'-C4'-C3'	5.02	124.03	116.00
3	A1	264	C	C5'-C4'-O4'	5.02	115.12	109.10
3	A1	1337	G	N9-C4-C5	5.02	107.41	105.40
3	A1	1400	C	O4'-C1'-C2'	-5.02	100.78	105.80
7	AF	69	ARG	CD-NE-CZ	5.02	130.62	123.60
25	BB	179	C	C2-N3-C4	-5.02	117.39	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	297	G	C1'-O4'-C4'	-5.02	105.89	109.90
25	BB	342	A	C4'-C3'-C2'	-5.02	97.58	102.60
25	BB	379	G	C8-N9-C4	-5.02	104.39	106.40
25	BB	469	G	O3'-P-O5'	5.02	113.53	104.00
25	BB	605	G	C2-N3-C4	-5.02	109.39	111.90
25	BB	811	U	N1-C2-N3	5.02	117.91	114.90
25	BB	1025	G	N3-C4-N9	5.02	129.01	126.00
25	BB	1371	G	C4-C5-C6	-5.02	115.79	118.80
25	BB	1774	C	N3-C4-C5	-5.02	119.89	121.90
25	BB	1882	U	O4'-C4'-C3'	-5.02	98.98	104.00
25	BB	2084	C	C6-N1-C2	-5.02	118.29	120.30
25	BB	2252	G	N9-C4-C5	5.02	107.41	105.40
25	BB	2382	G	C5'-C4'-O4'	5.02	115.12	109.10
25	BB	2732	G	C6-C5-N7	5.02	133.41	130.40
25	BB	2837	A	O5'-P-OP1	-5.02	101.18	105.70
25	BB	2844	G	N3-C4-N9	5.02	129.01	126.00
38	BO	72	PHE	CB-CG-CD2	-5.02	117.29	120.80
3	A1	671	G	O4'-C1'-N9	5.02	112.21	108.20
3	A1	852	G	C1'-O4'-C4'	-5.02	105.89	109.90
3	A1	938	A	C4-C5-C6	-5.02	114.49	117.00
24	BA	99	A	O3'-P-O5'	-5.02	94.47	104.00
25	BB	322	A	C5-N7-C8	5.02	106.41	103.90
25	BB	491	G	N9-C1'-C2'	5.02	120.52	114.00
25	BB	1218	G	C1'-O4'-C4'	-5.02	105.89	109.90
25	BB	1828	G	C3'-C2'-C1'	-5.02	97.49	101.50
25	BB	1976	U	C5-C4-O4	5.02	128.91	125.90
25	BB	2507	C	N1-C2-O2	5.02	121.91	118.90
25	BB	2574	G	O4'-C4'-C3'	5.02	110.11	106.10
3	A1	755	G	C2-N3-C4	-5.01	109.39	111.90
3	A1	766	A	C5'-C4'-C3'	-5.01	107.98	116.00
3	A1	1374	A	N7-C8-N9	-5.01	111.29	113.80
3	A1	1422	G	P-O5'-C5'	5.01	128.92	120.90
18	AS	16	ALA	C-N-CA	5.01	134.24	121.70
23	AX	45	ARG	O-C-N	-5.01	114.68	122.70
24	BA	94	A	N7-C8-N9	-5.01	111.29	113.80
25	BB	96	C	O4'-C1'-C2'	5.01	112.11	107.60
25	BB	627	A	C6-C5-N7	5.01	135.81	132.30
25	BB	1660	G	C4'-C3'-C2'	-5.01	97.59	102.60
25	BB	1908	C	C2-N3-C4	-5.01	117.39	119.90
25	BB	2624	G	C4-C5-C6	-5.01	115.79	118.80
25	BB	2761	A	C1'-O4'-C4'	-5.01	105.89	109.90
25	BB	2800	A	O4'-C1'-N9	-5.01	104.19	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
37	BN	174	ARG	NH1-CZ-NH2	-5.01	113.89	119.40
50	B1	44	ARG	CD-NE-CZ	5.01	130.62	123.60
3	A1	419	C	O4'-C1'-N1	5.01	112.21	108.20
3	A1	640	A	C5-C6-N6	5.01	127.71	123.70
3	A1	746	A	C5'-C4'-C3'	-5.01	107.98	116.00
3	A1	783	C	C2-N1-C1'	5.01	124.31	118.80
3	A1	1292	G	O4'-C4'-C3'	-5.01	98.99	104.00
3	A1	1387	G	C5-N7-C8	-5.01	101.79	104.30
25	BB	250	G	C2'-C3'-O3'	5.01	121.72	113.70
25	BB	282	A	C4-C5-C6	-5.01	114.49	117.00
25	BB	612	G	C4-C5-N7	5.01	112.81	110.80
25	BB	970	U	C1'-O4'-C4'	-5.01	105.89	109.90
25	BB	1121	C	N1-C1'-C2'	5.01	120.52	114.00
25	BB	1473	G	C6-N1-C2	-5.01	122.09	125.10
25	BB	1595	C	C4'-C3'-C2'	-5.01	97.59	102.60
25	BB	2011	U	C2-N3-C4	-5.01	123.99	127.00
37	BN	212	TRP	NE1-CE2-CD2	-5.01	102.29	107.30
3	A1	643	C	C5'-C4'-C3'	-5.01	107.98	116.00
3	A1	1000	A	C5-N7-C8	-5.01	101.39	103.90
17	AR	190	LEU	C-N-CA	5.01	134.23	121.70
20	AU	101	ARG	NE-CZ-NH2	-5.01	117.79	120.30
25	BB	80	G	C3'-C2'-C1'	5.01	105.51	101.50
25	BB	256	A	C5-C6-N6	5.01	127.71	123.70
25	BB	492	A	N9-C4-C5	5.01	107.80	105.80
25	BB	556	A	O4'-C4'-C3'	5.01	110.11	106.10
25	BB	720	U	N1-C2-N3	5.01	117.91	114.90
25	BB	969	G	N1-C2-N3	5.01	126.91	123.90
25	BB	1089	A	N9-C4-C5	-5.01	103.80	105.80
25	BB	2013	A	O3'-P-O5'	-5.01	94.48	104.00
25	BB	2326	C	C6-N1-C2	5.01	122.31	120.30
25	BB	2582	G	C4-C5-N7	-5.01	108.80	110.80
25	BB	2763	G	C1'-O4'-C4'	5.01	113.91	109.90
25	BB	2867	G	C6-C5-N7	5.01	133.41	130.40
25	BB	2891	U	N3-C4-C5	-5.01	111.59	114.60
41	BR	35	VAL	CA-CB-CG1	5.01	118.42	110.90
3	A1	28	A	C3'-C2'-C1'	5.01	105.51	101.50
3	A1	164	G	C6-N1-C2	-5.01	122.09	125.10
3	A1	167	A	P-O3'-C3'	5.01	125.71	119.70
3	A1	227	G	N7-C8-N9	5.01	115.60	113.10
3	A1	300	A	C5-C6-N6	5.01	127.71	123.70
3	A1	542	G	N1-C6-O6	-5.01	116.89	119.90
3	A1	1056	U	N3-C4-O4	-5.01	115.89	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	1139	G	C5'-C4'-C3'	-5.01	107.98	116.00
3	A1	1252	A	O4'-C4'-C3'	5.01	110.11	106.10
3	A1	1263	C	N3-C2-O2	-5.01	118.39	121.90
3	A1	1430	A	O4'-C1'-C2'	5.01	112.11	107.60
9	AH	8	ALA	CB-CA-C	5.01	117.61	110.10
25	BB	143	C	N1-C1'-C2'	-5.01	106.49	112.00
25	BB	161	A	OP1-P-O3'	5.01	116.22	105.20
25	BB	321	U	N3-C4-C5	-5.01	111.59	114.60
25	BB	342	A	C6-N1-C2	-5.01	115.59	118.60
25	BB	360	U	N1-C2-O2	-5.01	119.29	122.80
25	BB	625	G	C8-N9-C1'	5.01	133.51	127.00
25	BB	658	U	C5'-C4'-C3'	-5.01	107.98	116.00
25	BB	1077	A	C5-C6-N1	5.01	120.20	117.70
25	BB	1293	C	P-O3'-C3'	5.01	125.71	119.70
25	BB	1412	U	C5'-C4'-O4'	5.01	115.11	109.10
25	BB	1628	G	C4-C5-C6	5.01	121.81	118.80
25	BB	1755	A	C6-N1-C2	-5.01	115.59	118.60
25	BB	1877	A	C4-C5-C6	-5.01	114.50	117.00
25	BB	2357	G	N3-C4-N9	-5.01	122.99	126.00
25	BB	2380	C	C3'-C2'-C1'	5.01	105.51	101.50
25	BB	2396	G	N3-C2-N2	5.01	123.41	119.90
25	BB	2412	A	C8-N9-C4	-5.01	103.80	105.80
25	BB	2440	C	O4'-C4'-C3'	5.01	110.11	106.10
25	BB	2521	C	P-O5'-C5'	5.01	128.91	120.90
3	A1	191	G	C6-N1-C2	-5.01	122.09	125.10
3	A1	916	U	C4'-C3'-C2'	-5.01	97.59	102.60
25	BB	125	A	N1-C2-N3	-5.01	126.80	129.30
25	BB	970	U	N3-C2-O2	-5.01	118.69	122.20
25	BB	1423	G	C4-C5-C6	-5.01	115.80	118.80
25	BB	1911	U	N3-C4-C5	5.01	117.61	114.60
25	BB	2190	G	C1'-O4'-C4'	-5.01	105.89	109.90
25	BB	2376	A	N7-C8-N9	5.01	116.30	113.80
25	BB	2510	C	C2-N3-C4	-5.01	117.40	119.90
25	BB	2573	C	C5'-C4'-C3'	5.01	124.01	116.00
1	AP	15	G	C4-C5-N7	5.01	112.80	110.80
1	AE	43	G	C5'-C4'-O4'	5.01	115.11	109.10
3	A1	80	A	C4-C5-C6	-5.01	114.50	117.00
3	A1	135	C	N3-C2-O2	-5.01	118.39	121.90
3	A1	172	A	N1-C2-N3	-5.01	126.80	129.30
3	A1	312	C	N3-C4-C5	5.01	123.90	121.90
3	A1	370	C	OP2-P-O3'	5.01	116.21	105.20
3	A1	621	A	O4'-C1'-N9	5.01	112.21	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A1	730	G	N3-C4-C5	-5.01	126.10	128.60
3	A1	960	U	C2-N3-C4	5.01	130.00	127.00
3	A1	1106	G	N7-C8-N9	5.01	115.60	113.10
15	AO	167	TYR	CB-CG-CD2	-5.01	118.00	121.00
25	BB	31	C	C5-C4-N4	5.01	123.70	120.20
25	BB	159	G	C6-N1-C2	-5.01	122.10	125.10
25	BB	272	A	O4'-C4'-C3'	-5.01	98.99	104.00
25	BB	305	C	N3-C4-C5	5.01	123.90	121.90
25	BB	410	G	C6-N1-C2	-5.01	122.10	125.10
25	BB	672	C	C4-C5-C6	5.01	119.90	117.40
25	BB	713	G	C5-C6-O6	5.01	131.60	128.60
25	BB	734	A	N3-C4-C5	-5.01	123.30	126.80
25	BB	882	G	P-O5'-C5'	5.01	128.91	120.90
25	BB	991	C	C4-C5-C6	-5.01	114.90	117.40
25	BB	1037	G	C4-C5-N7	5.01	112.80	110.80
25	BB	1995	U	C3'-C2'-C1'	5.01	105.51	101.50
25	BB	2615	U	N3-C4-C5	-5.01	111.60	114.60
25	BB	2807	U	C5'-C4'-C3'	-5.01	107.99	116.00
30	BG	32	GLU	N-CA-C	5.01	124.52	111.00
36	BM	74	ILE	C-N-CA	5.01	132.81	122.30
36	BM	83	ALA	CB-CA-C	5.01	117.61	110.10
37	BN	106	PRO	C-N-CA	5.01	134.22	121.70
3	A1	433	G	C6-C5-N7	5.00	133.40	130.40
15	AO	155	ARG	CD-NE-CZ	5.00	130.61	123.60
25	BB	32	C	N1-C2-N3	5.00	122.70	119.20
25	BB	1000	A	C2-N3-C4	5.00	113.10	110.60
25	BB	1029	A	C3'-C2'-C1'	5.00	105.50	101.50
25	BB	1352	U	C5'-C4'-O4'	5.00	115.11	109.10
25	BB	1601	G	C3'-C2'-C1'	5.00	105.50	101.50
25	BB	1995	U	C5'-C4'-O4'	5.00	115.11	109.10
25	BB	2015	A	N7-C8-N9	-5.00	111.30	113.80
25	BB	2416	C	C2-N1-C1'	5.00	124.31	118.80
3	A1	294	U	N3-C4-C5	-5.00	111.60	114.60
3	A1	836	G	C4-C5-N7	5.00	112.80	110.80
3	A1	930	C	C2-N1-C1'	-5.00	113.30	118.80
3	A1	1084	G	C4-C5-N7	5.00	112.80	110.80
3	A1	1087	G	N3-C2-N2	-5.00	116.40	119.90
3	A1	1313	U	C5'-C4'-O4'	5.00	115.11	109.10
17	AR	193	ASP	CB-CG-OD2	5.00	122.80	118.30
25	BB	85	G	N1-C6-O6	-5.00	116.90	119.90
25	BB	129	C	P-O3'-C3'	5.00	125.70	119.70
25	BB	382	A	C6-C5-N7	5.00	135.80	132.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	BB	511	U	C5'-C4'-C3'	-5.00	108.00	116.00
25	BB	632	A	N1-C2-N3	-5.00	126.80	129.30
25	BB	834	G	C4-C5-C6	5.00	121.80	118.80
25	BB	1041	G	C2'-C3'-O3'	5.00	121.70	113.70
25	BB	1106	G	C5-C6-O6	5.00	131.60	128.60
25	BB	1576	U	N3-C4-O4	5.00	122.90	119.40
25	BB	1590	A	N3-C4-C5	5.00	130.30	126.80
25	BB	1657	U	O4'-C1'-C2'	-5.00	100.80	105.80
25	BB	1689	A	C6-N1-C2	-5.00	115.60	118.60
25	BB	1849	G	N3-C4-C5	-5.00	126.10	128.60
25	BB	1917	U	N3-C4-C5	-5.00	111.60	114.60
25	BB	1935	G	N1-C6-O6	-5.00	116.90	119.90
25	BB	2444	G	O5'-C5'-C4'	-5.00	102.19	111.70
1	AP	20	G	C4-C5-N7	-5.00	108.80	110.80
1	AP	70	C	C2-N1-C1'	-5.00	113.30	118.80
3	A1	321	A	O4'-C4'-C3'	5.00	110.10	106.10
3	A1	445	G	C4-C5-N7	5.00	112.80	110.80
3	A1	695	A	O4'-C1'-N9	5.00	112.20	108.20
3	A1	790	A	O4'-C1'-N9	5.00	112.20	108.20
3	A1	1077	G	N3-C4-C5	-5.00	126.10	128.60
3	A1	1084	G	O5'-C5'-C4'	5.00	121.20	111.70
3	A1	1184	G	N1-C6-O6	-5.00	116.90	119.90
3	A1	1260	G	C6-N1-C2	-5.00	122.10	125.10
3	A1	1280	A	N9-C1'-C2'	5.00	120.50	114.00
5	AC	59	PRO	C-N-CA	5.00	134.20	121.70
12	AK	22	TYR	CB-CG-CD1	-5.00	118.00	121.00
17	AR	71	PHE	C-N-CA	5.00	134.20	121.70
18	AS	93	VAL	CG1-CB-CG2	-5.00	102.90	110.90
24	BA	51	G	O4'-C1'-N9	5.00	112.20	108.20
25	BB	108	G	C5'-C4'-O4'	5.00	115.10	109.10
25	BB	644	A	C5'-C4'-O4'	5.00	115.10	109.10
25	BB	921	C	C2-N1-C1'	-5.00	113.30	118.80
25	BB	1667	G	C6-N1-C2	5.00	128.10	125.10
25	BB	2115	G	N9-C4-C5	-5.00	103.40	105.40
25	BB	2260	C	C6-N1-C2	-5.00	118.30	120.30
25	BB	2353	G	C5-C6-O6	5.00	131.60	128.60
25	BB	2761	A	C4-C5-N7	5.00	113.20	110.70

All (10) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	AP	31	A	C1',C2'

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Mol	Chain	Res	Type	Atom
3	A1	13	U	C1',C2'
3	A1	1198	G	C4'
3	A1	1483	A	C2'
14	AN	13	SER	CA
25	BB	1687	G	C1'
25	BB	1959	G	C1',C2'

All (3370) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	A1	100	G	Sidechain
3	A1	1000	A	Sidechain
3	A1	1003	G	Sidechain
3	A1	1005	A	Sidechain
3	A1	1006	G	Sidechain
3	A1	1007	U	Sidechain
3	A1	1008	U	Sidechain
3	A1	1009	U	Sidechain
3	A1	1010	U	Sidechain
3	A1	1012	A	Sidechain
3	A1	1013	G	Sidechain
3	A1	1014	A	Sidechain
3	A1	1015	G	Sidechain
3	A1	1016	A	Sidechain
3	A1	102	G	Sidechain
3	A1	1020	G	Sidechain
3	A1	1021	A	Sidechain
3	A1	1022	A	Sidechain
3	A1	1026	G	Sidechain
3	A1	1028	C	Sidechain
3	A1	103	U	Sidechain
3	A1	1030	U	Sidechain
3	A1	1032	G	Sidechain
3	A1	1033	G	Sidechain
3	A1	1034	G	Sidechain
3	A1	1035	A	Sidechain
3	A1	1036	A	Sidechain
3	A1	1037	C	Sidechain
3	A1	1038	C	Sidechain
3	A1	1039	G	Sidechain
3	A1	104	G	Sidechain
3	A1	1040	U	Sidechain

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Mol	Chain	Res	Type	Group
3	A1	1043	G	Sidechain
3	A1	1045	C	Sidechain
3	A1	1046	A	Sidechain
3	A1	1047	G	Sidechain
3	A1	1049	U	Sidechain
3	A1	105	G	Sidechain
3	A1	1050	G	Sidechain
3	A1	1053	G	Sidechain
3	A1	1056	U	Sidechain
3	A1	1057	G	Sidechain
3	A1	1058	G	Sidechain
3	A1	1059	C	Sidechain
3	A1	106	C	Sidechain
3	A1	1060	U	Sidechain
3	A1	1061	G	Sidechain
3	A1	1062	U	Sidechain
3	A1	1063	C	Sidechain
3	A1	1065	U	Sidechain
3	A1	1068	G	Sidechain
3	A1	1069	C	Sidechain
3	A1	107	G	Sidechain
3	A1	1072	G	Sidechain
3	A1	1073	U	Sidechain
3	A1	1074	G	Sidechain
3	A1	1075	U	Sidechain
3	A1	1077	G	Sidechain
3	A1	1079	G	Sidechain
3	A1	1080	A	Sidechain
3	A1	1081	A	Sidechain
3	A1	1082	A	Sidechain
3	A1	1083	U	Sidechain
3	A1	1084	G	Sidechain
3	A1	1086	U	Sidechain
3	A1	1087	G	Sidechain
3	A1	1090	U	Sidechain
3	A1	1091	U	Sidechain
3	A1	1092	A	Sidechain
3	A1	1093	A	Sidechain
3	A1	1094	G	Sidechain
3	A1	1095	U	Sidechain
3	A1	1096	C	Sidechain
3	A1	1097	C	Sidechain

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Mol	Chain	Res	Type	Group
3	A1	1099	G	Sidechain
3	A1	11	G	Sidechain
3	A1	1100	C	Sidechain
3	A1	1103	C	Sidechain
3	A1	1104	G	Sidechain
3	A1	1105	A	Sidechain
3	A1	1106	G	Sidechain
3	A1	1108	G	Sidechain
3	A1	1109	C	Sidechain
3	A1	111	G	Sidechain
3	A1	1110	A	Sidechain
3	A1	1114	C	Sidechain
3	A1	1115	U	Sidechain
3	A1	1116	U	Sidechain
3	A1	1117	A	Sidechain
3	A1	1118	U	Sidechain
3	A1	1119	C	Sidechain
3	A1	112	G	Sidechain
3	A1	1120	C	Sidechain
3	A1	1121	U	Sidechain
3	A1	1122	U	Sidechain
3	A1	1123	U	Sidechain
3	A1	1124	G	Sidechain
3	A1	1126	U	Sidechain
3	A1	1127	G	Sidechain
3	A1	1128	C	Sidechain
3	A1	1129	C	Sidechain
3	A1	1133	G	Sidechain
3	A1	1134	G	Sidechain
3	A1	1135	U	Sidechain
3	A1	1138	G	Sidechain
3	A1	1140	C	Sidechain
3	A1	1142	G	Sidechain
3	A1	1144	G	Sidechain
3	A1	1145	A	Sidechain
3	A1	1147	C	Sidechain
3	A1	1148	U	Sidechain
3	A1	1149	C	Sidechain
3	A1	115	G	Sidechain
3	A1	1150	A	Sidechain
3	A1	1151	A	Sidechain
3	A1	1152	A	Sidechain

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Mol	Chain	Res	Type	Group
3	A1	1153	G	Sidechain
3	A1	1154	G	Sidechain
3	A1	1155	A	Sidechain
3	A1	1159	U	Sidechain
3	A1	1160	G	Sidechain
3	A1	1164	G	Sidechain
3	A1	1166	G	Sidechain
3	A1	1168	U	Sidechain
3	A1	117	G	Sidechain
3	A1	1171	A	Sidechain
3	A1	1173	U	Sidechain
3	A1	1174	G	Sidechain
3	A1	1175	G	Sidechain
3	A1	1177	G	Sidechain
3	A1	1178	G	Sidechain
3	A1	1179	A	Sidechain
3	A1	1180	A	Sidechain
3	A1	1181	G	Sidechain
3	A1	1182	G	Sidechain
3	A1	1184	G	Sidechain
3	A1	1185	G	Sidechain
3	A1	1186	G	Sidechain
3	A1	119	A	Sidechain
3	A1	1190	G	Sidechain
3	A1	1192	C	Sidechain
3	A1	1193	G	Sidechain
3	A1	1194	U	Sidechain
3	A1	1198	G	Sidechain
3	A1	12	U	Sidechain
3	A1	120	A	Sidechain
3	A1	1200	C	Sidechain
3	A1	1202	U	Sidechain
3	A1	1205	U	Sidechain
3	A1	1206	G	Sidechain
3	A1	1207	G	Sidechain
3	A1	1210	C	Sidechain
3	A1	1212	U	Sidechain
3	A1	1214	C	Sidechain
3	A1	1215	G	Sidechain
3	A1	1216	A	Sidechain
3	A1	1218	C	Sidechain
3	A1	1220	G	Sidechain

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Mol	Chain	Res	Type	Group
3	A1	1221	G	Sidechain
3	A1	1222	G	Sidechain
3	A1	1224	U	Sidechain
3	A1	1225	A	Sidechain
3	A1	1226	C	Sidechain
3	A1	1228	C	Sidechain
3	A1	1230	C	Sidechain
3	A1	1232	U	Sidechain
3	A1	1233	G	Sidechain
3	A1	1235	U	Sidechain
3	A1	1237	C	Sidechain
3	A1	1239	A	Sidechain
3	A1	1241	G	Sidechain
3	A1	1244	G	Sidechain
3	A1	1245	C	Sidechain
3	A1	1252	A	Sidechain
3	A1	1253	G	Sidechain
3	A1	1256	A	Sidechain
3	A1	1257	A	Sidechain
3	A1	1258	G	Sidechain
3	A1	126	G	Sidechain
3	A1	1261	A	Sidechain
3	A1	1263	C	Sidechain
3	A1	1264	U	Sidechain
3	A1	1266	G	Sidechain
3	A1	127	G	Sidechain
3	A1	1270	G	Sidechain
3	A1	1271	A	Sidechain
3	A1	1272	G	Sidechain
3	A1	1274	A	Sidechain
3	A1	1275	A	Sidechain
3	A1	1276	G	Sidechain
3	A1	1279	G	Sidechain
3	A1	128	G	Sidechain
3	A1	1282	C	Sidechain
3	A1	1288	A	Sidechain
3	A1	1289	A	Sidechain
3	A1	129	A	Sidechain
3	A1	1290	G	Sidechain
3	A1	1291	U	Sidechain
3	A1	1292	G	Sidechain
3	A1	1293	C	Sidechain

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Mol	Chain	Res	Type	Group
3	A1	1294	G	Sidechain
3	A1	1295	U	Sidechain
3	A1	1296	C	Sidechain
3	A1	1299	A	Sidechain
3	A1	1303	C	Sidechain
3	A1	1305	G	Sidechain
3	A1	1306	A	Sidechain
3	A1	1307	U	Sidechain
3	A1	1309	G	Sidechain
3	A1	131	A	Sidechain
3	A1	1310	G	Sidechain
3	A1	1311	A	Sidechain
3	A1	1312	G	Sidechain
3	A1	1315	U	Sidechain
3	A1	1318	A	Sidechain
3	A1	1319	A	Sidechain
3	A1	132	C	Sidechain
3	A1	1320	C	Sidechain
3	A1	1323	G	Sidechain
3	A1	1324	A	Sidechain
3	A1	1326	U	Sidechain
3	A1	1331	G	Sidechain
3	A1	1333	A	Sidechain
3	A1	1336	C	Sidechain
3	A1	1337	G	Sidechain
3	A1	1338	G	Sidechain
3	A1	1339	A	Sidechain
3	A1	1340	A	Sidechain
3	A1	1345	U	Sidechain
3	A1	1346	A	Sidechain
3	A1	1348	U	Sidechain
3	A1	1349	A	Sidechain
3	A1	135	C	Sidechain
3	A1	1350	A	Sidechain
3	A1	1352	C	Sidechain
3	A1	1353	G	Sidechain
3	A1	1354	U	Sidechain
3	A1	1358	U	Sidechain
3	A1	1359	C	Sidechain
3	A1	136	C	Sidechain
3	A1	1360	A	Sidechain
3	A1	1361	G	Sidechain

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Mol	Chain	Res	Type	Group
3	A1	1362	A	Sidechain
3	A1	1365	G	Sidechain
3	A1	1366	C	Sidechain
3	A1	1367	C	Sidechain
3	A1	1368	A	Sidechain
3	A1	1369	C	Sidechain
3	A1	137	U	Sidechain
3	A1	1370	G	Sidechain
3	A1	1372	U	Sidechain
3	A1	1373	G	Sidechain
3	A1	1374	A	Sidechain
3	A1	1375	A	Sidechain
3	A1	1376	U	Sidechain
3	A1	1377	A	Sidechain
3	A1	1378	C	Sidechain
3	A1	1379	G	Sidechain
3	A1	138	G	Sidechain
3	A1	1380	U	Sidechain
3	A1	1382	C	Sidechain
3	A1	1383	C	Sidechain
3	A1	1384	C	Sidechain
3	A1	1385	G	Sidechain
3	A1	1386	G	Sidechain
3	A1	1389	C	Sidechain
3	A1	1390	U	Sidechain
3	A1	1392	G	Sidechain
3	A1	1393	U	Sidechain
3	A1	1396	A	Sidechain
3	A1	1397	C	Sidechain
3	A1	14	U	Sidechain
3	A1	1400	C	Sidechain
3	A1	1401	G	Sidechain
3	A1	1403	C	Sidechain
3	A1	1404	C	Sidechain
3	A1	1405	G	Sidechain
3	A1	1406	U	Sidechain
3	A1	1407	C	Sidechain
3	A1	1409	C	Sidechain
3	A1	1410	A	Sidechain
3	A1	1411	C	Sidechain
3	A1	1414	U	Sidechain
3	A1	1415	G	Sidechain

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Mol	Chain	Res	Type	Group
3	A1	1416	G	Sidechain
3	A1	1418	A	Sidechain
3	A1	1419	G	Sidechain
3	A1	142	G	Sidechain
3	A1	1420	U	Sidechain
3	A1	1421	G	Sidechain
3	A1	1422	G	Sidechain
3	A1	1423	G	Sidechain
3	A1	1424	U	Sidechain
3	A1	1427	C	Sidechain
3	A1	1429	A	Sidechain
3	A1	1430	A	Sidechain
3	A1	1431	A	Sidechain
3	A1	1432	G	Sidechain
3	A1	1433	A	Sidechain
3	A1	1434	A	Sidechain
3	A1	1436	U	Sidechain
3	A1	1439	G	Sidechain
3	A1	1440	U	Sidechain
3	A1	1445	U	Sidechain
3	A1	1447	A	Sidechain
3	A1	145	G	Sidechain
3	A1	1450	U	Sidechain
3	A1	1451	U	Sidechain
3	A1	1452	C	Sidechain
3	A1	1453	G	Sidechain
3	A1	1454	G	Sidechain
3	A1	1455	G	Sidechain
3	A1	1457	G	Sidechain
3	A1	1458	G	Sidechain
3	A1	1459	G	Sidechain
3	A1	146	G	Sidechain
3	A1	1460	C	Sidechain
3	A1	1461	G	Sidechain
3	A1	1462	C	Sidechain
3	A1	1464	U	Sidechain
3	A1	1466	C	Sidechain
3	A1	147	G	Sidechain
3	A1	1470	U	Sidechain
3	A1	1471	U	Sidechain
3	A1	1473	G	Sidechain
3	A1	1474	U	Sidechain

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Mol	Chain	Res	Type	Group
3	A1	1475	G	Sidechain
3	A1	1477	U	Sidechain
3	A1	1478	U	Sidechain
3	A1	1479	C	Sidechain
3	A1	1480	A	Sidechain
3	A1	1481	U	Sidechain
3	A1	1482	G	Sidechain
3	A1	1484	C	Sidechain
3	A1	1485	U	Sidechain
3	A1	1486	G	Sidechain
3	A1	1488	G	Sidechain
3	A1	1489	G	Sidechain
3	A1	149	A	Sidechain
3	A1	1490	U	Sidechain
3	A1	1492	A	Sidechain
3	A1	1493	A	Sidechain
3	A1	1494	G	Sidechain
3	A1	1495	U	Sidechain
3	A1	1496	C	Sidechain
3	A1	1497	G	Sidechain
3	A1	1498	U	Sidechain
3	A1	1499	A	Sidechain
3	A1	150	U	Sidechain
3	A1	1501	C	Sidechain
3	A1	1503	A	Sidechain
3	A1	1504	G	Sidechain
3	A1	1505	G	Sidechain
3	A1	1507	A	Sidechain
3	A1	1508	A	Sidechain
3	A1	1509	C	Sidechain
3	A1	151	A	Sidechain
3	A1	1511	G	Sidechain
3	A1	1512	U	Sidechain
3	A1	1513	A	Sidechain
3	A1	1514	G	Sidechain
3	A1	1515	G	Sidechain
3	A1	1516	G	Sidechain
3	A1	1517	G	Sidechain
3	A1	1518	A	Sidechain
3	A1	152	A	Sidechain
3	A1	1520	C	Sidechain
3	A1	1521	C	Sidechain

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Mol	Chain	Res	Type	Group
3	A1	1522	U	Sidechain
3	A1	1523	G	Sidechain
3	A1	1524	C	Sidechain
3	A1	1525	G	Sidechain
3	A1	1526	G	Sidechain
3	A1	1528	U	Sidechain
3	A1	153	C	Sidechain
3	A1	1530	G	Sidechain
3	A1	1532	U	Sidechain
3	A1	154	U	Sidechain
3	A1	157	U	Sidechain
3	A1	158	G	Sidechain
3	A1	159	G	Sidechain
3	A1	16	A	Sidechain
3	A1	164	G	Sidechain
3	A1	165	G	Sidechain
3	A1	167	A	Sidechain
3	A1	168	G	Sidechain
3	A1	169	C	Sidechain
3	A1	17	U	Sidechain
3	A1	170	U	Sidechain
3	A1	171	A	Sidechain
3	A1	172	A	Sidechain
3	A1	178	C	Sidechain
3	A1	18	C	Sidechain
3	A1	180	U	Sidechain
3	A1	181	A	Sidechain
3	A1	182	A	Sidechain
3	A1	184	G	Sidechain
3	A1	185	U	Sidechain
3	A1	187	G	Sidechain
3	A1	189	A	Sidechain
3	A1	191	G	Sidechain
3	A1	196	A	Sidechain
3	A1	197	A	Sidechain
3	A1	198	G	Sidechain
3	A1	199	A	Sidechain
3	A1	20	U	Sidechain
3	A1	201	G	Sidechain
3	A1	202	G	Sidechain
3	A1	203	G	Sidechain
3	A1	204	G	Sidechain

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Mol	Chain	Res	Type	Group
3	A1	205	A	Sidechain
3	A1	206	C	Sidechain
3	A1	208	U	Sidechain
3	A1	209	U	Sidechain
3	A1	21	G	Sidechain
3	A1	211	G	Sidechain
3	A1	213	G	Sidechain
3	A1	214	C	Sidechain
3	A1	218	U	Sidechain
3	A1	219	U	Sidechain
3	A1	22	G	Sidechain
3	A1	220	G	Sidechain
3	A1	222	C	Sidechain
3	A1	224	U	Sidechain
3	A1	226	G	Sidechain
3	A1	227	G	Sidechain
3	A1	23	C	Sidechain
3	A1	230	G	Sidechain
3	A1	231	U	Sidechain
3	A1	232	G	Sidechain
3	A1	233	C	Sidechain
3	A1	234	C	Sidechain
3	A1	235	C	Sidechain
3	A1	238	A	Sidechain
3	A1	240	G	Sidechain
3	A1	241	G	Sidechain
3	A1	242	G	Sidechain
3	A1	243	A	Sidechain
3	A1	244	U	Sidechain
3	A1	248	C	Sidechain
3	A1	249	U	Sidechain
3	A1	250	A	Sidechain
3	A1	252	U	Sidechain
3	A1	253	A	Sidechain
3	A1	254	G	Sidechain
3	A1	255	G	Sidechain
3	A1	256	U	Sidechain
3	A1	257	G	Sidechain
3	A1	258	G	Sidechain
3	A1	259	G	Sidechain
3	A1	260	G	Sidechain
3	A1	261	U	Sidechain

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Mol	Chain	Res	Type	Group
3	A1	262	A	Sidechain
3	A1	263	A	Sidechain
3	A1	265	G	Sidechain
3	A1	266	G	Sidechain
3	A1	267	C	Sidechain
3	A1	269	C	Sidechain
3	A1	27	G	Sidechain
3	A1	270	A	Sidechain
3	A1	271	C	Sidechain
3	A1	272	C	Sidechain
3	A1	274	A	Sidechain
3	A1	275	G	Sidechain
3	A1	276	G	Sidechain
3	A1	277	C	Sidechain
3	A1	278	G	Sidechain
3	A1	28	A	Sidechain
3	A1	281	G	Sidechain
3	A1	283	U	Sidechain
3	A1	286	C	Sidechain
3	A1	288	A	Sidechain
3	A1	289	G	Sidechain
3	A1	29	U	Sidechain
3	A1	290	C	Sidechain
3	A1	291	U	Sidechain
3	A1	293	G	Sidechain
3	A1	295	C	Sidechain
3	A1	296	U	Sidechain
3	A1	297	G	Sidechain
3	A1	298	A	Sidechain
3	A1	299	G	Sidechain
3	A1	30	U	Sidechain
3	A1	303	A	Sidechain
3	A1	304	U	Sidechain
3	A1	307	C	Sidechain
3	A1	308	C	Sidechain
3	A1	309	A	Sidechain
3	A1	31	G	Sidechain
3	A1	310	G	Sidechain
3	A1	311	C	Sidechain
3	A1	312	C	Sidechain
3	A1	316	C	Sidechain
3	A1	317	U	Sidechain

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Mol	Chain	Res	Type	Group
3	A1	318	G	Sidechain
3	A1	32	A	Sidechain
3	A1	320	A	Sidechain
3	A1	322	C	Sidechain
3	A1	324	G	Sidechain
3	A1	325	A	Sidechain
3	A1	326	G	Sidechain
3	A1	327	A	Sidechain
3	A1	329	A	Sidechain
3	A1	330	C	Sidechain
3	A1	332	G	Sidechain
3	A1	333	U	Sidechain
3	A1	334	C	Sidechain
3	A1	336	A	Sidechain
3	A1	337	G	Sidechain
3	A1	338	A	Sidechain
3	A1	341	C	Sidechain
3	A1	346	G	Sidechain
3	A1	347	G	Sidechain
3	A1	348	G	Sidechain
3	A1	349	A	Sidechain
3	A1	35	G	Sidechain
3	A1	350	G	Sidechain
3	A1	351	G	Sidechain
3	A1	352	C	Sidechain
3	A1	353	A	Sidechain
3	A1	354	G	Sidechain
3	A1	356	A	Sidechain
3	A1	357	G	Sidechain
3	A1	359	G	Sidechain
3	A1	36	C	Sidechain
3	A1	360	G	Sidechain
3	A1	361	G	Sidechain
3	A1	362	G	Sidechain
3	A1	364	A	Sidechain
3	A1	366	A	Sidechain
3	A1	367	U	Sidechain
3	A1	370	C	Sidechain
3	A1	371	A	Sidechain
3	A1	372	C	Sidechain
3	A1	373	A	Sidechain
3	A1	374	A	Sidechain

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Mol	Chain	Res	Type	Group
3	A1	375	U	Sidechain
3	A1	376	G	Sidechain
3	A1	377	G	Sidechain
3	A1	378	G	Sidechain
3	A1	379	C	Sidechain
3	A1	38	G	Sidechain
3	A1	380	G	Sidechain
3	A1	384	G	Sidechain
3	A1	385	C	Sidechain
3	A1	388	G	Sidechain
3	A1	389	A	Sidechain
3	A1	39	G	Sidechain
3	A1	390	U	Sidechain
3	A1	393	A	Sidechain
3	A1	394	G	Sidechain
3	A1	395	C	Sidechain
3	A1	396	C	Sidechain
3	A1	398	U	Sidechain
3	A1	399	G	Sidechain
3	A1	40	C	Sidechain
3	A1	401	C	Sidechain
3	A1	402	G	Sidechain
3	A1	403	C	Sidechain
3	A1	404	G	Sidechain
3	A1	407	U	Sidechain
3	A1	408	A	Sidechain
3	A1	409	U	Sidechain
3	A1	41	G	Sidechain
3	A1	410	G	Sidechain
3	A1	413	G	Sidechain
3	A1	415	A	Sidechain
3	A1	416	G	Sidechain
3	A1	417	G	Sidechain
3	A1	419	C	Sidechain
3	A1	421	U	Sidechain
3	A1	422	C	Sidechain
3	A1	423	G	Sidechain
3	A1	425	G	Sidechain
3	A1	426	U	Sidechain
3	A1	427	U	Sidechain
3	A1	428	G	Sidechain
3	A1	429	U	Sidechain

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Mol	Chain	Res	Type	Group
3	A1	43	C	Sidechain
3	A1	430	A	Sidechain
3	A1	431	A	Sidechain
3	A1	432	A	Sidechain
3	A1	433	G	Sidechain
3	A1	434	U	Sidechain
3	A1	436	C	Sidechain
3	A1	437	U	Sidechain
3	A1	438	U	Sidechain
3	A1	439	U	Sidechain
3	A1	44	A	Sidechain
3	A1	441	A	Sidechain
3	A1	442	G	Sidechain
3	A1	443	C	Sidechain
3	A1	444	G	Sidechain
3	A1	445	G	Sidechain
3	A1	446	G	Sidechain
3	A1	447	G	Sidechain
3	A1	448	A	Sidechain
3	A1	449	G	Sidechain
3	A1	45	G	Sidechain
3	A1	450	G	Sidechain
3	A1	451	A	Sidechain
3	A1	452	A	Sidechain
3	A1	453	G	Sidechain
3	A1	454	G	Sidechain
3	A1	455	G	Sidechain
3	A1	456	A	Sidechain
3	A1	458	U	Sidechain
3	A1	459	A	Sidechain
3	A1	460	A	Sidechain
3	A1	462	G	Sidechain
3	A1	466	A	Sidechain
3	A1	467	U	Sidechain
3	A1	470	C	Sidechain
3	A1	474	G	Sidechain
3	A1	476	U	Sidechain
3	A1	477	C	Sidechain
3	A1	478	A	Sidechain
3	A1	479	U	Sidechain
3	A1	483	C	Sidechain
3	A1	484	G	Sidechain

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Mol	Chain	Res	Type	Group
3	A1	485	U	Sidechain
3	A1	486	U	Sidechain
3	A1	487	A	Sidechain
3	A1	488	C	Sidechain
3	A1	489	C	Sidechain
3	A1	490	C	Sidechain
3	A1	491	G	Sidechain
3	A1	494	G	Sidechain
3	A1	495	A	Sidechain
3	A1	497	G	Sidechain
3	A1	499	A	Sidechain
3	A1	5	U	Sidechain
3	A1	50	A	Sidechain
3	A1	501	C	Sidechain
3	A1	502	A	Sidechain
3	A1	503	C	Sidechain
3	A1	504	C	Sidechain
3	A1	505	G	Sidechain
3	A1	506	G	Sidechain
3	A1	508	U	Sidechain
3	A1	511	C	Sidechain
3	A1	515	G	Sidechain
3	A1	516	U	Sidechain
3	A1	517	G	Sidechain
3	A1	518	C	Sidechain
3	A1	519	C	Sidechain
3	A1	52	C	Sidechain
3	A1	520	A	Sidechain
3	A1	521	G	Sidechain
3	A1	522	C	Sidechain
3	A1	523	A	Sidechain
3	A1	524	G	Sidechain
3	A1	527	G	Sidechain
3	A1	528	C	Sidechain
3	A1	529	G	Sidechain
3	A1	530	G	Sidechain
3	A1	531	U	Sidechain
3	A1	532	A	Sidechain
3	A1	533	A	Sidechain
3	A1	534	U	Sidechain
3	A1	535	A	Sidechain
3	A1	536	C	Sidechain

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Mol	Chain	Res	Type	Group
3	A1	537	G	Sidechain
3	A1	538	G	Sidechain
3	A1	54	C	Sidechain
3	A1	540	G	Sidechain
3	A1	542	G	Sidechain
3	A1	543	U	Sidechain
3	A1	544	G	Sidechain
3	A1	545	C	Sidechain
3	A1	547	A	Sidechain
3	A1	548	G	Sidechain
3	A1	550	G	Sidechain
3	A1	551	U	Sidechain
3	A1	552	U	Sidechain
3	A1	553	A	Sidechain
3	A1	557	G	Sidechain
3	A1	56	U	Sidechain
3	A1	560	A	Sidechain
3	A1	562	U	Sidechain
3	A1	564	C	Sidechain
3	A1	565	U	Sidechain
3	A1	567	G	Sidechain
3	A1	568	G	Sidechain
3	A1	57	G	Sidechain
3	A1	570	G	Sidechain
3	A1	572	A	Sidechain
3	A1	573	A	Sidechain
3	A1	574	A	Sidechain
3	A1	575	G	Sidechain
3	A1	579	A	Sidechain
3	A1	58	C	Sidechain
3	A1	580	C	Sidechain
3	A1	585	G	Sidechain
3	A1	586	C	Sidechain
3	A1	587	G	Sidechain
3	A1	589	U	Sidechain
3	A1	59	A	Sidechain
3	A1	591	U	Sidechain
3	A1	592	G	Sidechain
3	A1	593	U	Sidechain
3	A1	594	U	Sidechain
3	A1	595	A	Sidechain
3	A1	596	A	Sidechain

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Mol	Chain	Res	Type	Group
3	A1	597	G	Sidechain
3	A1	60	A	Sidechain
3	A1	602	A	Sidechain
3	A1	605	U	Sidechain
3	A1	606	G	Sidechain
3	A1	608	A	Sidechain
3	A1	61	G	Sidechain
3	A1	612	C	Sidechain
3	A1	615	G	Sidechain
3	A1	616	G	Sidechain
3	A1	617	G	Sidechain
3	A1	619	U	Sidechain
3	A1	62	U	Sidechain
3	A1	622	A	Sidechain
3	A1	623	C	Sidechain
3	A1	624	C	Sidechain
3	A1	625	U	Sidechain
3	A1	627	G	Sidechain
3	A1	628	G	Sidechain
3	A1	63	C	Sidechain
3	A1	632	U	Sidechain
3	A1	633	G	Sidechain
3	A1	635	A	Sidechain
3	A1	636	U	Sidechain
3	A1	637	C	Sidechain
3	A1	638	U	Sidechain
3	A1	639	G	Sidechain
3	A1	64	G	Sidechain
3	A1	640	A	Sidechain
3	A1	641	U	Sidechain
3	A1	642	A	Sidechain
3	A1	643	C	Sidechain
3	A1	644	U	Sidechain
3	A1	646	G	Sidechain
3	A1	648	A	Sidechain
3	A1	649	A	Sidechain
3	A1	65	A	Sidechain
3	A1	650	G	Sidechain
3	A1	655	A	Sidechain
3	A1	657	U	Sidechain
3	A1	659	U	Sidechain
3	A1	66	A	Sidechain

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Mol	Chain	Res	Type	Group
3	A1	660	C	Sidechain
3	A1	661	G	Sidechain
3	A1	662	U	Sidechain
3	A1	664	G	Sidechain
3	A1	666	G	Sidechain
3	A1	667	G	Sidechain
3	A1	668	G	Sidechain
3	A1	671	G	Sidechain
3	A1	672	U	Sidechain
3	A1	673	A	Sidechain
3	A1	675	A	Sidechain
3	A1	676	A	Sidechain
3	A1	677	U	Sidechain
3	A1	679	C	Sidechain
3	A1	68	G	Sidechain
3	A1	681	A	Sidechain
3	A1	683	G	Sidechain
3	A1	684	U	Sidechain
3	A1	687	A	Sidechain
3	A1	688	G	Sidechain
3	A1	69	G	Sidechain
3	A1	690	G	Sidechain
3	A1	691	G	Sidechain
3	A1	692	U	Sidechain
3	A1	693	G	Sidechain
3	A1	694	A	Sidechain
3	A1	697	U	Sidechain
3	A1	698	G	Sidechain
3	A1	699	C	Sidechain
3	A1	70	U	Sidechain
3	A1	700	G	Sidechain
3	A1	701	U	Sidechain
3	A1	705	G	Sidechain
3	A1	706	A	Sidechain
3	A1	707	U	Sidechain
3	A1	708	C	Sidechain
3	A1	709	U	Sidechain
3	A1	710	G	Sidechain
3	A1	711	G	Sidechain
3	A1	712	A	Sidechain
3	A1	713	G	Sidechain
3	A1	716	A	Sidechain

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Mol	Chain	Res	Type	Group
3	A1	717	U	Sidechain
3	A1	718	A	Sidechain
3	A1	719	C	Sidechain
3	A1	72	A	Sidechain
3	A1	720	C	Sidechain
3	A1	721	G	Sidechain
3	A1	722	G	Sidechain
3	A1	723	U	Sidechain
3	A1	73	C	Sidechain
3	A1	733	G	Sidechain
3	A1	734	G	Sidechain
3	A1	739	C	Sidechain
3	A1	74	A	Sidechain
3	A1	740	U	Sidechain
3	A1	741	G	Sidechain
3	A1	742	G	Sidechain
3	A1	744	C	Sidechain
3	A1	745	G	Sidechain
3	A1	746	A	Sidechain
3	A1	747	A	Sidechain
3	A1	749	A	Sidechain
3	A1	750	C	Sidechain
3	A1	752	G	Sidechain
3	A1	753	A	Sidechain
3	A1	754	C	Sidechain
3	A1	755	G	Sidechain
3	A1	756	C	Sidechain
3	A1	757	U	Sidechain
3	A1	76	G	Sidechain
3	A1	760	G	Sidechain
3	A1	761	G	Sidechain
3	A1	762	U	Sidechain
3	A1	764	C	Sidechain
3	A1	765	G	Sidechain
3	A1	766	A	Sidechain
3	A1	767	A	Sidechain
3	A1	769	G	Sidechain
3	A1	771	G	Sidechain
3	A1	774	G	Sidechain
3	A1	775	G	Sidechain
3	A1	776	G	Sidechain
3	A1	777	A	Sidechain

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Mol	Chain	Res	Type	Group
3	A1	78	A	Sidechain
3	A1	780	A	Sidechain
3	A1	783	C	Sidechain
3	A1	784	A	Sidechain
3	A1	788	U	Sidechain
3	A1	79	G	Sidechain
3	A1	791	G	Sidechain
3	A1	793	U	Sidechain
3	A1	794	A	Sidechain
3	A1	795	C	Sidechain
3	A1	796	C	Sidechain
3	A1	797	C	Sidechain
3	A1	799	G	Sidechain
3	A1	8	A	Sidechain
3	A1	800	G	Sidechain
3	A1	801	U	Sidechain
3	A1	806	C	Sidechain
3	A1	807	A	Sidechain
3	A1	808	C	Sidechain
3	A1	809	G	Sidechain
3	A1	81	A	Sidechain
3	A1	810	C	Sidechain
3	A1	811	C	Sidechain
3	A1	812	G	Sidechain
3	A1	814	A	Sidechain
3	A1	815	A	Sidechain
3	A1	816	A	Sidechain
3	A1	817	C	Sidechain
3	A1	818	G	Sidechain
3	A1	819	A	Sidechain
3	A1	82	G	Sidechain
3	A1	820	U	Sidechain
3	A1	821	G	Sidechain
3	A1	822	U	Sidechain
3	A1	823	C	Sidechain
3	A1	827	U	Sidechain
3	A1	828	U	Sidechain
3	A1	829	G	Sidechain
3	A1	83	C	Sidechain
3	A1	830	G	Sidechain
3	A1	831	A	Sidechain
3	A1	832	G	Sidechain

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Mol	Chain	Res	Type	Group
3	A1	833	G	Sidechain
3	A1	834	U	Sidechain
3	A1	836	G	Sidechain
3	A1	837	U	Sidechain
3	A1	839	C	Sidechain
3	A1	84	U	Sidechain
3	A1	840	C	Sidechain
3	A1	841	C	Sidechain
3	A1	843	U	Sidechain
3	A1	844	G	Sidechain
3	A1	845	A	Sidechain
3	A1	846	G	Sidechain
3	A1	847	G	Sidechain
3	A1	849	G	Sidechain
3	A1	85	U	Sidechain
3	A1	850	U	Sidechain
3	A1	851	G	Sidechain
3	A1	852	G	Sidechain
3	A1	854	U	Sidechain
3	A1	855	U	Sidechain
3	A1	858	G	Sidechain
3	A1	859	G	Sidechain
3	A1	86	G	Sidechain
3	A1	861	G	Sidechain
3	A1	862	C	Sidechain
3	A1	863	U	Sidechain
3	A1	865	A	Sidechain
3	A1	866	C	Sidechain
3	A1	867	G	Sidechain
3	A1	868	C	Sidechain
3	A1	869	G	Sidechain
3	A1	87	C	Sidechain
3	A1	872	A	Sidechain
3	A1	875	U	Sidechain
3	A1	877	G	Sidechain
3	A1	878	A	Sidechain
3	A1	879	C	Sidechain
3	A1	880	C	Sidechain
3	A1	882	C	Sidechain
3	A1	884	U	Sidechain
3	A1	885	G	Sidechain
3	A1	887	G	Sidechain

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Mol	Chain	Res	Type	Group
3	A1	888	G	Sidechain
3	A1	89	U	Sidechain
3	A1	890	G	Sidechain
3	A1	892	A	Sidechain
3	A1	893	C	Sidechain
3	A1	894	G	Sidechain
3	A1	895	G	Sidechain
3	A1	896	C	Sidechain
3	A1	898	G	Sidechain
3	A1	899	C	Sidechain
3	A1	9	G	Sidechain
3	A1	90	C	Sidechain
3	A1	900	A	Sidechain
3	A1	901	A	Sidechain
3	A1	902	G	Sidechain
3	A1	903	G	Sidechain
3	A1	905	U	Sidechain
3	A1	907	A	Sidechain
3	A1	909	A	Sidechain
3	A1	91	U	Sidechain
3	A1	913	A	Sidechain
3	A1	914	A	Sidechain
3	A1	915	A	Sidechain
3	A1	917	G	Sidechain
3	A1	918	A	Sidechain
3	A1	919	A	Sidechain
3	A1	92	U	Sidechain
3	A1	922	G	Sidechain
3	A1	923	A	Sidechain
3	A1	924	C	Sidechain
3	A1	928	G	Sidechain
3	A1	929	G	Sidechain
3	A1	93	U	Sidechain
3	A1	931	C	Sidechain
3	A1	932	C	Sidechain
3	A1	933	G	Sidechain
3	A1	934	C	Sidechain
3	A1	935	A	Sidechain
3	A1	936	C	Sidechain
3	A1	937	A	Sidechain
3	A1	938	A	Sidechain
3	A1	939	G	Sidechain

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Mol	Chain	Res	Type	Group
3	A1	940	C	Sidechain
3	A1	942	G	Sidechain
3	A1	943	U	Sidechain
3	A1	944	G	Sidechain
3	A1	945	G	Sidechain
3	A1	948	C	Sidechain
3	A1	949	A	Sidechain
3	A1	950	U	Sidechain
3	A1	951	G	Sidechain
3	A1	954	G	Sidechain
3	A1	955	U	Sidechain
3	A1	956	U	Sidechain
3	A1	958	A	Sidechain
3	A1	960	U	Sidechain
3	A1	961	U	Sidechain
3	A1	963	G	Sidechain
3	A1	966	G	Sidechain
3	A1	968	A	Sidechain
3	A1	969	A	Sidechain
3	A1	97	G	Sidechain
3	A1	970	C	Sidechain
3	A1	971	G	Sidechain
3	A1	974	A	Sidechain
3	A1	975	A	Sidechain
3	A1	977	A	Sidechain
3	A1	979	C	Sidechain
3	A1	98	A	Sidechain
3	A1	980	C	Sidechain
3	A1	981	U	Sidechain
3	A1	982	U	Sidechain
3	A1	984	C	Sidechain
3	A1	986	U	Sidechain
3	A1	988	G	Sidechain
3	A1	989	U	Sidechain
3	A1	99	C	Sidechain
3	A1	990	C	Sidechain
3	A1	993	G	Sidechain
3	A1	996	A	Sidechain
3	A1	998	C	Sidechain
1	AA	1	G	Sidechain
1	AA	10	G	Sidechain
1	AA	12	U	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	13	C	Sidechain
1	AA	16	U	Sidechain
1	AA	17	U	Sidechain
1	AA	18	G	Sidechain
1	AA	19	G	Sidechain
1	AA	20	G	Sidechain
1	AA	21	A	Sidechain
1	AA	22	G	Sidechain
1	AA	23	A	Sidechain
1	AA	24	G	Sidechain
1	AA	27	C	Sidechain
1	AA	29	A	Sidechain
1	AA	3	G	Sidechain
1	AA	30	G	Sidechain
1	AA	31	A	Sidechain
1	AA	32	C	Sidechain
1	AA	34	G	Sidechain
1	AA	37	G	Sidechain
1	AA	39	U	Sidechain
1	AA	4	G	Sidechain
1	AA	41	U	Sidechain
1	AA	43	G	Sidechain
1	AA	44	A	Sidechain
1	AA	45	G	Sidechain
1	AA	47	U	Sidechain
1	AA	48	C	Sidechain
1	AA	49	C	Sidechain
1	AA	5	A	Sidechain
1	AA	50	U	Sidechain
1	AA	53	G	Sidechain
1	AA	54	U	Sidechain
1	AA	55	U	Sidechain
1	AA	56	C	Sidechain
1	AA	58	A	Sidechain
1	AA	6	U	Sidechain
1	AA	60	C	Sidechain
1	AA	61	C	Sidechain
1	AA	62	A	Sidechain
1	AA	63	C	Sidechain
1	AA	65	G	Sidechain
1	AA	66	A	Sidechain
1	AA	70	C	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	71	G	Sidechain
1	AA	72	C	Sidechain
1	AA	73	A	Sidechain
1	AA	74	C	Sidechain
1	AA	75	C	Sidechain
1	AA	8	U	Sidechain
1	AA	9	A	Sidechain
4	AB	114	LYS	Mainchain
4	AB	136	ARG	Sidechain
4	AB	138	ARG	Sidechain
4	AB	183	PHE	Peptide
4	AB	21	TYR	Sidechain
4	AB	221	ARG	Sidechain
4	AB	43	GLU	Mainchain
4	AB	96	LEU	Mainchain
5	AC	126	ARG	Sidechain
5	AC	26	PHE	Sidechain
5	AC	43	TRP	Peptide
5	AC	68	ARG	Peptide
6	AD	112	ALA	Peptide
6	AD	113	ARG	Sidechain
6	AD	116	TYR	Sidechain
6	AD	13	ARG	Peptide
6	AD	29	LYS	Peptide
6	AD	30	ARG	Sidechain
6	AD	37	TYR	Sidechain
6	AD	65	TYR	Sidechain
6	AD	82	ARG	Sidechain
1	AE	1	G	Sidechain
1	AE	10	G	Sidechain
1	AE	11	C	Sidechain
1	AE	12	U	Sidechain
1	AE	17	U	Sidechain
1	AE	18	G	Sidechain
1	AE	19	G	Sidechain
1	AE	22	G	Sidechain
1	AE	23	A	Sidechain
1	AE	24	G	Sidechain
1	AE	27	C	Sidechain
1	AE	28	C	Sidechain
1	AE	3	G	Sidechain
1	AE	30	G	Sidechain

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Mol	Chain	Res	Type	Group
1	AE	31	A	Sidechain
1	AE	33	U	Sidechain
1	AE	34	G	Sidechain
1	AE	37	G	Sidechain
1	AE	39	U	Sidechain
1	AE	4	G	Sidechain
1	AE	40	C	Sidechain
1	AE	41	U	Sidechain
1	AE	42	G	Sidechain
1	AE	46	G	Sidechain
1	AE	48	C	Sidechain
1	AE	5	A	Sidechain
1	AE	50	U	Sidechain
1	AE	51	G	Sidechain
1	AE	53	G	Sidechain
1	AE	54	U	Sidechain
1	AE	56	C	Sidechain
1	AE	57	G	Sidechain
1	AE	59	U	Sidechain
1	AE	60	C	Sidechain
1	AE	61	C	Sidechain
1	AE	62	A	Sidechain
1	AE	64	A	Sidechain
1	AE	65	G	Sidechain
1	AE	67	A	Sidechain
1	AE	71	G	Sidechain
1	AE	72	C	Sidechain
1	AE	74	C	Sidechain
1	AE	75	C	Sidechain
1	AE	76	A	Sidechain
1	AE	8	U	Sidechain
1	AE	9	A	Sidechain
7	AF	11	HIS	Sidechain
7	AF	112	ARG	Sidechain
7	AF	52	ILE	Peptide
7	AF	70	ARG	Sidechain
7	AF	86	ARG	Peptide
7	AF	95	PRO	Mainchain
7	AF	97	ARG	Sidechain,Peptide
8	AG	18	LYS	Mainchain
8	AG	80	ARG	Sidechain
8	AG	84	ARG	Sidechain

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Mol	Chain	Res	Type	Group
9	AH	45	HIS	Sidechain
9	AH	77	TYR	Sidechain
10	AI	14	ARG	Sidechain
10	AI	24	SER	Peptide
10	AI	25	ARG	Sidechain,Peptide
10	AI	32	PHE	Sidechain
10	AI	40	ASN	Peptide
10	AI	47	GLU	Peptide
10	AI	60	TRP	Peptide
10	AI	9	HIS	Sidechain
11	AJ	26	ARG	Sidechain
11	AJ	44	HIS	Sidechain
11	AJ	46	HIS	Sidechain
11	AJ	61	ARG	Sidechain
12	AK	22	TYR	Sidechain
12	AK	31	TYR	Sidechain
12	AK	62	ARG	Sidechain
13	AL	10	ILE	Peptide,Mainchain
13	AL	18	VAL	Peptide
13	AL	2	ARG	Sidechain
13	AL	4	LEU	Peptide
13	AL	54	ARG	Sidechain
13	AL	6	LYS	Peptide
13	AL	66	VAL	Peptide
2	AM	1	U	Sidechain
2	AM	10	U	Sidechain
2	AM	13	U	Sidechain
2	AM	14	U	Sidechain
2	AM	18	U	Sidechain
2	AM	2	U	Sidechain
2	AM	20	U	Sidechain
2	AM	4	U	Sidechain
2	AM	6	U	Sidechain
2	AM	7	U	Sidechain
2	AM	8	U	Sidechain
2	AM	9	U	Sidechain
15	AO	129	PHE	Sidechain
15	AO	130	ARG	Sidechain
15	AO	155	ARG	Sidechain
15	AO	168	ARG	Sidechain
15	AO	182	ASP	Peptide
15	AO	183	TYR	Sidechain

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Mol	Chain	Res	Type	Group
15	AO	75	VAL	Peptide
15	AO	79	LYS	Peptide
15	AO	87	ARG	Sidechain
1	AP	10	G	Sidechain
1	AP	16	U	Sidechain
1	AP	17	U	Sidechain
1	AP	18	G	Sidechain
1	AP	19	G	Sidechain
1	AP	22	G	Sidechain
1	AP	23	A	Sidechain
1	AP	24	G	Sidechain
1	AP	26	G	Sidechain
1	AP	27	C	Sidechain
1	AP	29	A	Sidechain
1	AP	30	G	Sidechain
1	AP	31	A	Sidechain
1	AP	32	C	Sidechain
1	AP	34	G	Sidechain
1	AP	37	G	Sidechain
1	AP	4	G	Sidechain
1	AP	40	C	Sidechain
1	AP	41	U	Sidechain
1	AP	42	G	Sidechain
1	AP	43	G	Sidechain
1	AP	45	G	Sidechain
1	AP	46	G	Sidechain
1	AP	47	U	Sidechain
1	AP	48	C	Sidechain
1	AP	49	C	Sidechain
1	AP	50	U	Sidechain
1	AP	51	G	Sidechain
1	AP	52	U	Sidechain
1	AP	53	G	Sidechain
1	AP	54	U	Sidechain
1	AP	55	U	Sidechain
1	AP	56	C	Sidechain
1	AP	57	G	Sidechain
1	AP	59	U	Sidechain
1	AP	6	U	Sidechain
1	AP	60	C	Sidechain
1	AP	61	C	Sidechain
1	AP	63	C	Sidechain

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Mol	Chain	Res	Type	Group
1	AP	64	A	Sidechain
1	AP	65	G	Sidechain
1	AP	66	A	Sidechain
1	AP	68	U	Sidechain
1	AP	69	U	Sidechain
1	AP	7	U	Sidechain
1	AP	70	C	Sidechain
1	AP	71	G	Sidechain
1	AP	72	C	Sidechain
1	AP	73	A	Sidechain
1	AP	8	U	Sidechain
1	AP	9	A	Sidechain
16	AQ	24	LYS	Peptide
16	AQ	34	ARG	Sidechain
16	AQ	44	ARG	Sidechain
16	AQ	45	LYS	Peptide
16	AQ	9	GLU	Peptide
17	AR	143	SER	Mainchain
17	AR	187	ARG	Sidechain
17	AR	25	ARG	Sidechain
17	AR	3	TYR	Sidechain
17	AR	72	ARG	Sidechain
18	AS	111	ARG	Sidechain
18	AS	19	ARG	Sidechain
19	AT	2	ARG	Sidechain
19	AT	38	ARG	Sidechain
19	AT	40	GLU	Peptide
19	AT	44	ARG	Sidechain
19	AT	55	HIS	Sidechain
19	AT	56	LYS	Peptide
19	AT	57	ALA	Peptide
19	AT	59	TYR	Sidechain
19	AT	79	ARG	Sidechain
20	AU	101	ARG	Sidechain
20	AU	118	ARG	Sidechain
20	AU	137	ARG	Sidechain
20	AU	141	HIS	Peptide
20	AU	25	PHE	Sidechain
20	AU	85	GLN	Peptide
20	AU	9	ARG	Sidechain
20	AU	91	ARG	Sidechain
21	AV	47	ASP	Peptide

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Mol	Chain	Res	Type	Group
21	AV	76	ARG	Sidechain
21	AV	79	ARG	Sidechain
21	AV	93	LYS	Peptide
22	AW	118	ARG	Sidechain
22	AW	126	PHE	Peptide
22	AW	32	ARG	Sidechain
22	AW	37	TYR	Sidechain
22	AW	5	TYR	Sidechain
22	AW	6	TYR	Sidechain
22	AW	63	TYR	Sidechain
22	AW	9	GLY	Mainchain
22	AW	98	ARG	Sidechain
23	AX	5	ARG	Sidechain
23	AX	68	ARG	Sidechain
50	B1	102	ARG	Sidechain
50	B1	115	GLN	Peptide
50	B1	122	GLU	Peptide
50	B1	162	ARG	Sidechain
50	B1	188	MET	Peptide
50	B1	47	LYS	Peptide
50	B1	57	LYS	Peptide
50	B1	67	ARG	Sidechain
50	B1	78	TRP	Peptide
51	B2	111	ARG	Sidechain
51	B2	124	ARG	Sidechain
51	B2	148	VAL	Peptide
51	B2	169	LEU	Peptide
51	B2	32	LYS	Peptide
51	B2	82	TYR	Sidechain
51	B2	87	LYS	Peptide
52	B3	107	GLY	Mainchain
52	B3	150	TYR	Sidechain
52	B3	152	ARG	Sidechain
52	B3	156	TYR	Sidechain
52	B3	48	THR	Mainchain
52	B3	86	LEU	Peptide
52	B3	93	TYR	Sidechain
53	B4	128	HIS	Sidechain
53	B4	16	GLY	Peptide
53	B4	51	ARG	Sidechain
54	B5	102	ARG	Sidechain
54	B5	51	GLY	Peptide

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Mol	Chain	Res	Type	Group
54	B5	66	PHE	Peptide
55	B6	109	LEU	Peptide
55	B6	125	TYR	Sidechain
55	B6	13	ARG	Sidechain
55	B6	27	ARG	Sidechain
55	B6	31	GLU	Sidechain
55	B6	37	ARG	Peptide
55	B6	44	TYR	Sidechain
55	B6	49	ASP	Sidechain
55	B6	53	TYR	Sidechain
55	B6	75	TYR	Sidechain
55	B6	98	GLU	Sidechain
55	B6	99	ARG	Sidechain
24	BA	100	G	Sidechain
24	BA	101	A	Sidechain
24	BA	102	G	Sidechain
24	BA	103	U	Sidechain
24	BA	104	A	Sidechain
24	BA	105	G	Sidechain
24	BA	107	G	Sidechain
24	BA	108	A	Sidechain
24	BA	11	C	Sidechain
24	BA	111	U	Sidechain
24	BA	112	G	Sidechain
24	BA	114	C	Sidechain
24	BA	115	A	Sidechain
24	BA	116	G	Sidechain
24	BA	117	G	Sidechain
24	BA	118	C	Sidechain
24	BA	12	C	Sidechain
24	BA	13	G	Sidechain
24	BA	14	U	Sidechain
24	BA	15	A	Sidechain
24	BA	18	G	Sidechain
24	BA	2	G	Sidechain
24	BA	20	G	Sidechain
24	BA	22	U	Sidechain
24	BA	23	G	Sidechain
24	BA	24	G	Sidechain
24	BA	27	C	Sidechain
24	BA	29	A	Sidechain
24	BA	3	C	Sidechain

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Mol	Chain	Res	Type	Group
24	BA	30	C	Sidechain
24	BA	31	C	Sidechain
24	BA	33	G	Sidechain
24	BA	35	C	Sidechain
24	BA	36	C	Sidechain
24	BA	37	C	Sidechain
24	BA	39	A	Sidechain
24	BA	4	C	Sidechain
24	BA	41	G	Sidechain
24	BA	43	C	Sidechain
24	BA	44	G	Sidechain
24	BA	46	A	Sidechain
24	BA	47	C	Sidechain
24	BA	49	C	Sidechain
24	BA	50	A	Sidechain
24	BA	51	G	Sidechain
24	BA	53	A	Sidechain
24	BA	54	G	Sidechain
24	BA	55	U	Sidechain
24	BA	58	A	Sidechain
24	BA	59	A	Sidechain
24	BA	60	C	Sidechain
24	BA	61	G	Sidechain
24	BA	62	C	Sidechain
24	BA	64	G	Sidechain
24	BA	66	A	Sidechain
24	BA	67	G	Sidechain
24	BA	69	G	Sidechain
24	BA	70	C	Sidechain
24	BA	71	C	Sidechain
24	BA	72	G	Sidechain
24	BA	73	A	Sidechain
24	BA	75	G	Sidechain
24	BA	76	G	Sidechain
24	BA	77	U	Sidechain
24	BA	78	A	Sidechain
24	BA	79	G	Sidechain
24	BA	80	U	Sidechain
24	BA	81	G	Sidechain
24	BA	82	U	Sidechain
24	BA	83	G	Sidechain
24	BA	84	G	Sidechain

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Mol	Chain	Res	Type	Group
24	BA	85	G	Sidechain
24	BA	89	U	Sidechain
24	BA	9	G	Sidechain
24	BA	91	C	Sidechain
24	BA	92	C	Sidechain
24	BA	93	C	Sidechain
24	BA	94	A	Sidechain
24	BA	95	U	Sidechain
24	BA	96	G	Sidechain
24	BA	98	G	Sidechain
25	BB	1	G	Sidechain
25	BB	10	A	Sidechain
25	BB	1000	A	Sidechain
25	BB	1001	A	Sidechain
25	BB	1003	G	Sidechain
25	BB	1004	U	Sidechain
25	BB	1005	C	Sidechain
25	BB	1006	C	Sidechain
25	BB	1007	C	Sidechain
25	BB	1008	A	Sidechain
25	BB	1009	A	Sidechain
25	BB	1011	G	Sidechain
25	BB	1012	U	Sidechain
25	BB	1013	C	Sidechain
25	BB	1015	U	Sidechain
25	BB	1018	U	Sidechain
25	BB	1019	U	Sidechain
25	BB	102	U	Sidechain
25	BB	1020	A	Sidechain
25	BB	1021	A	Sidechain
25	BB	1022	G	Sidechain
25	BB	1024	G	Sidechain
25	BB	1025	G	Sidechain
25	BB	1026	G	Sidechain
25	BB	1029	A	Sidechain
25	BB	103	A	Sidechain
25	BB	1031	G	Sidechain
25	BB	1032	A	Sidechain
25	BB	1033	U	Sidechain
25	BB	1034	G	Sidechain
25	BB	1035	U	Sidechain
25	BB	1036	G	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	1041	G	Sidechain
25	BB	1042	G	Sidechain
25	BB	1044	C	Sidechain
25	BB	1045	C	Sidechain
25	BB	1049	C	Sidechain
25	BB	105	C	Sidechain
25	BB	1051	G	Sidechain
25	BB	1052	C	Sidechain
25	BB	1054	A	Sidechain
25	BB	1058	U	Sidechain
25	BB	1059	G	Sidechain
25	BB	1060	U	Sidechain
25	BB	1062	G	Sidechain
25	BB	1064	C	Sidechain
25	BB	1065	U	Sidechain
25	BB	1067	A	Sidechain
25	BB	1068	G	Sidechain
25	BB	1069	A	Sidechain
25	BB	107	G	Sidechain
25	BB	1071	G	Sidechain
25	BB	1074	G	Sidechain
25	BB	1075	C	Sidechain
25	BB	1076	C	Sidechain
25	BB	1078	U	Sidechain
25	BB	108	G	Sidechain
25	BB	1080	A	Sidechain
25	BB	1082	U	Sidechain
25	BB	1084	A	Sidechain
25	BB	1085	A	Sidechain
25	BB	1086	A	Sidechain
25	BB	1087	G	Sidechain
25	BB	1088	A	Sidechain
25	BB	1089	A	Sidechain
25	BB	1090	A	Sidechain
25	BB	1091	G	Sidechain
25	BB	1095	A	Sidechain
25	BB	1096	A	Sidechain
25	BB	1097	U	Sidechain
25	BB	1099	G	Sidechain
25	BB	11	C	Sidechain
25	BB	1101	U	Sidechain
25	BB	1102	C	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	1103	A	Sidechain
25	BB	1106	G	Sidechain
25	BB	1108	U	Sidechain
25	BB	1109	C	Sidechain
25	BB	1110	G	Sidechain
25	BB	1111	A	Sidechain
25	BB	1112	G	Sidechain
25	BB	1113	U	Sidechain
25	BB	1114	C	Sidechain
25	BB	112	U	Sidechain
25	BB	1120	G	Sidechain
25	BB	1122	G	Sidechain
25	BB	1124	G	Sidechain
25	BB	1125	G	Sidechain
25	BB	1127	A	Sidechain
25	BB	1128	G	Sidechain
25	BB	1129	A	Sidechain
25	BB	1131	G	Sidechain
25	BB	1134	A	Sidechain
25	BB	1135	C	Sidechain
25	BB	1136	G	Sidechain
25	BB	1137	G	Sidechain
25	BB	1138	G	Sidechain
25	BB	1139	G	Sidechain
25	BB	114	U	Sidechain
25	BB	1140	C	Sidechain
25	BB	1141	U	Sidechain
25	BB	1142	A	Sidechain
25	BB	1148	U	Sidechain
25	BB	1149	G	Sidechain
25	BB	1150	C	Sidechain
25	BB	1154	G	Sidechain
25	BB	1155	A	Sidechain
25	BB	1156	A	Sidechain
25	BB	1157	G	Sidechain
25	BB	1159	U	Sidechain
25	BB	116	C	Sidechain
25	BB	1161	C	Sidechain
25	BB	1162	G	Sidechain
25	BB	1163	G	Sidechain
25	BB	1165	A	Sidechain
25	BB	1168	G	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	117	G	Sidechain
25	BB	1170	C	Sidechain
25	BB	1171	G	Sidechain
25	BB	1172	C	Sidechain
25	BB	1177	G	Sidechain
25	BB	1178	C	Sidechain
25	BB	1179	G	Sidechain
25	BB	118	A	Sidechain
25	BB	1181	U	Sidechain
25	BB	1182	G	Sidechain
25	BB	1185	G	Sidechain
25	BB	1188	U	Sidechain
25	BB	1189	A	Sidechain
25	BB	119	A	Sidechain
25	BB	1190	G	Sidechain
25	BB	1191	G	Sidechain
25	BB	1192	G	Sidechain
25	BB	1193	G	Sidechain
25	BB	1194	A	Sidechain
25	BB	1195	G	Sidechain
25	BB	1196	C	Sidechain
25	BB	1197	G	Sidechain
25	BB	1199	U	Sidechain
25	BB	12	U	Sidechain
25	BB	120	U	Sidechain
25	BB	1200	C	Sidechain
25	BB	1203	U	Sidechain
25	BB	1206	G	Sidechain
25	BB	1208	C	Sidechain
25	BB	1210	G	Sidechain
25	BB	1211	C	Sidechain
25	BB	1214	A	Sidechain
25	BB	1215	G	Sidechain
25	BB	1216	G	Sidechain
25	BB	1217	U	Sidechain
25	BB	1218	G	Sidechain
25	BB	1219	U	Sidechain
25	BB	122	G	Sidechain
25	BB	1220	G	Sidechain
25	BB	1221	C	Sidechain
25	BB	1222	U	Sidechain
25	BB	1223	G	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	1224	U	Sidechain
25	BB	1225	G	Sidechain
25	BB	1227	G	Sidechain
25	BB	1228	G	Sidechain
25	BB	123	G	Sidechain
25	BB	1230	A	Sidechain
25	BB	1231	U	Sidechain
25	BB	1232	G	Sidechain
25	BB	1233	C	Sidechain
25	BB	1234	U	Sidechain
25	BB	1235	G	Sidechain
25	BB	1238	G	Sidechain
25	BB	1239	G	Sidechain
25	BB	1240	U	Sidechain
25	BB	1241	A	Sidechain
25	BB	1242	U	Sidechain
25	BB	1245	G	Sidechain
25	BB	1248	G	Sidechain
25	BB	125	A	Sidechain
25	BB	1250	G	Sidechain
25	BB	1251	C	Sidechain
25	BB	1252	G	Sidechain
25	BB	1253	A	Sidechain
25	BB	1255	U	Sidechain
25	BB	1256	G	Sidechain
25	BB	126	A	Sidechain
25	BB	1260	A	Sidechain
25	BB	1261	C	Sidechain
25	BB	1264	A	Sidechain
25	BB	1265	A	Sidechain
25	BB	1266	G	Sidechain
25	BB	1270	C	Sidechain
25	BB	1271	G	Sidechain
25	BB	1273	U	Sidechain
25	BB	1274	A	Sidechain
25	BB	1275	A	Sidechain
25	BB	1276	A	Sidechain
25	BB	1277	G	Sidechain
25	BB	1278	C	Sidechain
25	BB	1279	G	Sidechain
25	BB	128	C	Sidechain
25	BB	1281	G	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	1283	G	Sidechain
25	BB	1285	A	Sidechain
25	BB	1287	A	Sidechain
25	BB	1288	G	Sidechain
25	BB	1289	C	Sidechain
25	BB	129	C	Sidechain
25	BB	1290	C	Sidechain
25	BB	1291	C	Sidechain
25	BB	1292	G	Sidechain
25	BB	1293	C	Sidechain
25	BB	1294	U	Sidechain
25	BB	1296	G	Sidechain
25	BB	1299	G	Sidechain
25	BB	130	C	Sidechain
25	BB	1300	G	Sidechain
25	BB	1302	A	Sidechain
25	BB	1303	G	Sidechain
25	BB	1304	A	Sidechain
25	BB	1306	C	Sidechain
25	BB	1308	A	Sidechain
25	BB	1309	G	Sidechain
25	BB	131	A	Sidechain
25	BB	1310	G	Sidechain
25	BB	1315	C	Sidechain
25	BB	1316	U	Sidechain
25	BB	1318	U	Sidechain
25	BB	132	G	Sidechain
25	BB	1320	C	Sidechain
25	BB	1323	C	Sidechain
25	BB	1324	G	Sidechain
25	BB	1325	U	Sidechain
25	BB	1326	U	Sidechain
25	BB	1327	A	Sidechain
25	BB	133	U	Sidechain
25	BB	1330	C	Sidechain
25	BB	1332	G	Sidechain
25	BB	1333	G	Sidechain
25	BB	1334	G	Sidechain
25	BB	1337	G	Sidechain
25	BB	1338	G	Sidechain
25	BB	134	G	Sidechain
25	BB	1343	G	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	1344	U	Sidechain
25	BB	1345	C	Sidechain
25	BB	1346	G	Sidechain
25	BB	135	U	Sidechain
25	BB	1352	U	Sidechain
25	BB	1353	A	Sidechain
25	BB	1356	G	Sidechain
25	BB	1358	G	Sidechain
25	BB	1359	A	Sidechain
25	BB	136	G	Sidechain
25	BB	1360	G	Sidechain
25	BB	1361	G	Sidechain
25	BB	1362	C	Sidechain
25	BB	1366	A	Sidechain
25	BB	1367	A	Sidechain
25	BB	1368	G	Sidechain
25	BB	1369	G	Sidechain
25	BB	137	U	Sidechain
25	BB	1371	G	Sidechain
25	BB	1372	U	Sidechain
25	BB	1373	A	Sidechain
25	BB	1374	G	Sidechain
25	BB	1375	U	Sidechain
25	BB	1376	C	Sidechain
25	BB	1377	G	Sidechain
25	BB	1378	A	Sidechain
25	BB	1379	U	Sidechain
25	BB	1380	G	Sidechain
25	BB	1381	G	Sidechain
25	BB	1382	G	Sidechain
25	BB	1384	A	Sidechain
25	BB	1388	G	Sidechain
25	BB	1389	G	Sidechain
25	BB	139	U	Sidechain
25	BB	1390	U	Sidechain
25	BB	1391	U	Sidechain
25	BB	1392	A	Sidechain
25	BB	1394	U	Sidechain
25	BB	1396	U	Sidechain
25	BB	1399	C	Sidechain
25	BB	1400	U	Sidechain
25	BB	1401	G	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	1402	U	Sidechain
25	BB	1403	A	Sidechain
25	BB	1405	U	Sidechain
25	BB	1407	G	Sidechain
25	BB	1408	G	Sidechain
25	BB	1409	U	Sidechain
25	BB	141	G	Sidechain
25	BB	1410	G	Sidechain
25	BB	1414	C	Sidechain
25	BB	1416	G	Sidechain
25	BB	1417	C	Sidechain
25	BB	1418	G	Sidechain
25	BB	1419	A	Sidechain
25	BB	1421	G	Sidechain
25	BB	1423	G	Sidechain
25	BB	1424	G	Sidechain
25	BB	1425	G	Sidechain
25	BB	1428	C	Sidechain
25	BB	1429	G	Sidechain
25	BB	143	C	Sidechain
25	BB	1430	G	Sidechain
25	BB	1432	G	Sidechain
25	BB	1433	A	Sidechain
25	BB	1434	A	Sidechain
25	BB	1435	G	Sidechain
25	BB	1436	G	Sidechain
25	BB	1437	C	Sidechain
25	BB	1438	U	Sidechain
25	BB	144	A	Sidechain
25	BB	1440	U	Sidechain
25	BB	1441	G	Sidechain
25	BB	1444	G	Sidechain
25	BB	1445	G	Sidechain
25	BB	1447	C	Sidechain
25	BB	1448	G	Sidechain
25	BB	1449	G	Sidechain
25	BB	1450	G	Sidechain
25	BB	1452	G	Sidechain
25	BB	1453	A	Sidechain
25	BB	1454	C	Sidechain
25	BB	1455	G	Sidechain
25	BB	1456	G	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	1457	U	Sidechain
25	BB	1459	G	Sidechain
25	BB	1461	C	Sidechain
25	BB	1462	C	Sidechain
25	BB	1463	C	Sidechain
25	BB	1465	G	Sidechain
25	BB	1467	U	Sidechain
25	BB	147	C	Sidechain
25	BB	1471	G	Sidechain
25	BB	1473	G	Sidechain
25	BB	1474	U	Sidechain
25	BB	1478	G	Sidechain
25	BB	1479	G	Sidechain
25	BB	148	U	Sidechain
25	BB	1480	C	Sidechain
25	BB	1482	G	Sidechain
25	BB	1483	G	Sidechain
25	BB	1484	U	Sidechain
25	BB	1485	U	Sidechain
25	BB	1487	U	Sidechain
25	BB	1488	C	Sidechain
25	BB	1489	C	Sidechain
25	BB	1491	G	Sidechain
25	BB	1492	G	Sidechain
25	BB	1494	A	Sidechain
25	BB	1495	A	Sidechain
25	BB	1496	A	Sidechain
25	BB	1497	U	Sidechain
25	BB	1498	C	Sidechain
25	BB	1499	C	Sidechain
25	BB	15	G	Sidechain
25	BB	1503	A	Sidechain
25	BB	1506	U	Sidechain
25	BB	1507	C	Sidechain
25	BB	1508	A	Sidechain
25	BB	1509	A	Sidechain
25	BB	151	C	Sidechain
25	BB	1512	C	Sidechain
25	BB	1513	U	Sidechain
25	BB	1514	G	Sidechain
25	BB	1516	G	Sidechain
25	BB	1517	G	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	1518	C	Sidechain
25	BB	152	A	Sidechain
25	BB	1521	G	Sidechain
25	BB	1523	U	Sidechain
25	BB	1524	G	Sidechain
25	BB	1526	C	Sidechain
25	BB	1527	G	Sidechain
25	BB	1529	G	Sidechain
25	BB	153	U	Sidechain
25	BB	1531	C	Sidechain
25	BB	1535	A	Sidechain
25	BB	1537	G	Sidechain
25	BB	1539	U	Sidechain
25	BB	154	U	Sidechain
25	BB	1540	G	Sidechain
25	BB	1542	U	Sidechain
25	BB	1543	G	Sidechain
25	BB	1544	A	Sidechain
25	BB	1545	A	Sidechain
25	BB	1546	G	Sidechain
25	BB	1547	C	Sidechain
25	BB	1548	A	Sidechain
25	BB	1550	C	Sidechain
25	BB	1551	A	Sidechain
25	BB	1555	G	Sidechain
25	BB	1557	C	Sidechain
25	BB	1558	C	Sidechain
25	BB	1559	U	Sidechain
25	BB	156	A	Sidechain
25	BB	1560	G	Sidechain
25	BB	1562	U	Sidechain
25	BB	1563	U	Sidechain
25	BB	1565	C	Sidechain
25	BB	1566	A	Sidechain
25	BB	1567	G	Sidechain
25	BB	1570	A	Sidechain
25	BB	1574	C	Sidechain
25	BB	1575	C	Sidechain
25	BB	1577	C	Sidechain
25	BB	1578	U	Sidechain
25	BB	1579	A	Sidechain
25	BB	158	U	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	1580	A	Sidechain
25	BB	1582	C	Sidechain
25	BB	1585	C	Sidechain
25	BB	1586	A	Sidechain
25	BB	1588	G	Sidechain
25	BB	1589	U	Sidechain
25	BB	159	G	Sidechain
25	BB	1590	A	Sidechain
25	BB	1591	A	Sidechain
25	BB	1592	C	Sidechain
25	BB	1593	A	Sidechain
25	BB	1595	C	Sidechain
25	BB	1597	A	Sidechain
25	BB	1598	A	Sidechain
25	BB	1599	U	Sidechain
25	BB	16	C	Sidechain
25	BB	1600	C	Sidechain
25	BB	1603	A	Sidechain
25	BB	1604	C	Sidechain
25	BB	1605	C	Sidechain
25	BB	1608	A	Sidechain
25	BB	1612	C	Sidechain
25	BB	1613	G	Sidechain
25	BB	1614	A	Sidechain
25	BB	1615	C	Sidechain
25	BB	1616	A	Sidechain
25	BB	1617	C	Sidechain
25	BB	1618	A	Sidechain
25	BB	1619	G	Sidechain
25	BB	1620	G	Sidechain
25	BB	1621	U	Sidechain
25	BB	1622	G	Sidechain
25	BB	1623	G	Sidechain
25	BB	1627	G	Sidechain
25	BB	1628	G	Sidechain
25	BB	1629	U	Sidechain
25	BB	1630	A	Sidechain
25	BB	1631	G	Sidechain
25	BB	1633	G	Sidechain
25	BB	1635	A	Sidechain
25	BB	1636	U	Sidechain
25	BB	1637	A	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	164	C	Sidechain
25	BB	1640	A	Sidechain
25	BB	1641	A	Sidechain
25	BB	1642	G	Sidechain
25	BB	1643	G	Sidechain
25	BB	1644	C	Sidechain
25	BB	1645	G	Sidechain
25	BB	1646	C	Sidechain
25	BB	1647	U	Sidechain
25	BB	1648	U	Sidechain
25	BB	1649	G	Sidechain
25	BB	1650	A	Sidechain
25	BB	1651	G	Sidechain
25	BB	1652	A	Sidechain
25	BB	1653	G	Sidechain
25	BB	1654	A	Sidechain
25	BB	1658	C	Sidechain
25	BB	1659	G	Sidechain
25	BB	166	U	Sidechain
25	BB	1660	G	Sidechain
25	BB	1661	G	Sidechain
25	BB	1662	U	Sidechain
25	BB	1663	G	Sidechain
25	BB	1666	G	Sidechain
25	BB	1667	G	Sidechain
25	BB	1668	A	Sidechain
25	BB	1669	A	Sidechain
25	BB	1671	U	Sidechain
25	BB	1672	A	Sidechain
25	BB	1673	G	Sidechain
25	BB	1674	G	Sidechain
25	BB	1675	C	Sidechain
25	BB	1676	A	Sidechain
25	BB	1679	A	Sidechain
25	BB	168	G	Sidechain
25	BB	1680	U	Sidechain
25	BB	1681	G	Sidechain
25	BB	1682	G	Sidechain
25	BB	1684	G	Sidechain
25	BB	1685	C	Sidechain
25	BB	1686	C	Sidechain
25	BB	1688	U	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	169	G	Sidechain
25	BB	1690	A	Sidechain
25	BB	1691	C	Sidechain
25	BB	1692	U	Sidechain
25	BB	1693	U	Sidechain
25	BB	1695	G	Sidechain
25	BB	1696	G	Sidechain
25	BB	1697	G	Sidechain
25	BB	1699	G	Sidechain
25	BB	170	U	Sidechain
25	BB	1701	A	Sidechain
25	BB	1702	G	Sidechain
25	BB	1703	G	Sidechain
25	BB	1705	A	Sidechain
25	BB	1706	C	Sidechain
25	BB	1708	C	Sidechain
25	BB	1709	U	Sidechain
25	BB	1711	A	Sidechain
25	BB	1713	A	Sidechain
25	BB	1714	U	Sidechain
25	BB	1715	G	Sidechain
25	BB	1718	G	Sidechain
25	BB	1719	G	Sidechain
25	BB	1721	G	Sidechain
25	BB	1722	A	Sidechain
25	BB	1723	G	Sidechain
25	BB	1725	U	Sidechain
25	BB	1726	C	Sidechain
25	BB	1727	C	Sidechain
25	BB	1729	U	Sidechain
25	BB	173	A	Sidechain
25	BB	1731	G	Sidechain
25	BB	1733	G	Sidechain
25	BB	1734	G	Sidechain
25	BB	1736	U	Sidechain
25	BB	1740	G	Sidechain
25	BB	1741	C	Sidechain
25	BB	1743	G	Sidechain
25	BB	1744	A	Sidechain
25	BB	175	G	Sidechain
25	BB	1753	G	Sidechain
25	BB	1754	A	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	1755	A	Sidechain
25	BB	1756	G	Sidechain
25	BB	1758	U	Sidechain
25	BB	1760	C	Sidechain
25	BB	1761	C	Sidechain
25	BB	1763	G	Sidechain
25	BB	1765	U	Sidechain
25	BB	1766	G	Sidechain
25	BB	1767	G	Sidechain
25	BB	1768	C	Sidechain
25	BB	1769	U	Sidechain
25	BB	177	G	Sidechain
25	BB	1770	G	Sidechain
25	BB	1772	A	Sidechain
25	BB	1773	A	Sidechain
25	BB	1774	C	Sidechain
25	BB	1775	U	Sidechain
25	BB	1776	G	Sidechain
25	BB	1777	U	Sidechain
25	BB	1778	U	Sidechain
25	BB	1779	U	Sidechain
25	BB	1782	U	Sidechain
25	BB	1784	A	Sidechain
25	BB	1785	A	Sidechain
25	BB	1787	A	Sidechain
25	BB	1788	C	Sidechain
25	BB	1789	A	Sidechain
25	BB	1790	C	Sidechain
25	BB	1791	A	Sidechain
25	BB	1792	G	Sidechain
25	BB	1794	A	Sidechain
25	BB	1796	U	Sidechain
25	BB	1798	U	Sidechain
25	BB	18	U	Sidechain
25	BB	180	G	Sidechain
25	BB	1801	A	Sidechain
25	BB	1804	C	Sidechain
25	BB	1806	C	Sidechain
25	BB	1807	G	Sidechain
25	BB	1808	A	Sidechain
25	BB	1809	A	Sidechain
25	BB	181	A	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	1811	G	Sidechain
25	BB	1812	U	Sidechain
25	BB	1814	G	Sidechain
25	BB	1816	C	Sidechain
25	BB	1817	G	Sidechain
25	BB	1818	U	Sidechain
25	BB	1819	A	Sidechain
25	BB	182	A	Sidechain
25	BB	1821	A	Sidechain
25	BB	1823	G	Sidechain
25	BB	1825	U	Sidechain
25	BB	1826	G	Sidechain
25	BB	1827	U	Sidechain
25	BB	183	C	Sidechain
25	BB	1830	C	Sidechain
25	BB	1833	C	Sidechain
25	BB	1834	U	Sidechain
25	BB	1835	G	Sidechain
25	BB	1836	C	Sidechain
25	BB	1839	G	Sidechain
25	BB	184	C	Sidechain
25	BB	1840	G	Sidechain
25	BB	1841	U	Sidechain
25	BB	1842	G	Sidechain
25	BB	1843	C	Sidechain
25	BB	1844	C	Sidechain
25	BB	1845	G	Sidechain
25	BB	1846	G	Sidechain
25	BB	1848	A	Sidechain
25	BB	1849	G	Sidechain
25	BB	185	G	Sidechain
25	BB	1852	U	Sidechain
25	BB	1855	U	Sidechain
25	BB	1857	G	Sidechain
25	BB	1858	A	Sidechain
25	BB	1859	U	Sidechain
25	BB	186	G	Sidechain
25	BB	1861	G	Sidechain
25	BB	1862	G	Sidechain
25	BB	1865	U	Sidechain
25	BB	1869	G	Sidechain
25	BB	187	G	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	1870	C	Sidechain
25	BB	1872	A	Sidechain
25	BB	1873	G	Sidechain
25	BB	1874	C	Sidechain
25	BB	1878	G	Sidechain
25	BB	1880	U	Sidechain
25	BB	1881	C	Sidechain
25	BB	1883	U	Sidechain
25	BB	1884	G	Sidechain
25	BB	1885	A	Sidechain
25	BB	1888	G	Sidechain
25	BB	1889	A	Sidechain
25	BB	189	G	Sidechain
25	BB	1890	A	Sidechain
25	BB	1892	C	Sidechain
25	BB	1893	C	Sidechain
25	BB	1894	C	Sidechain
25	BB	1896	G	Sidechain
25	BB	1900	A	Sidechain
25	BB	1902	C	Sidechain
25	BB	1905	C	Sidechain
25	BB	1907	G	Sidechain
25	BB	1908	C	Sidechain
25	BB	1909	C	Sidechain
25	BB	191	A	Sidechain
25	BB	1910	G	Sidechain
25	BB	1912	A	Sidechain
25	BB	1913	A	Sidechain
25	BB	1914	C	Sidechain
25	BB	1915	U	Sidechain
25	BB	1916	A	Sidechain
25	BB	1918	A	Sidechain
25	BB	1919	A	Sidechain
25	BB	192	C	Sidechain
25	BB	1920	C	Sidechain
25	BB	1921	G	Sidechain
25	BB	1923	U	Sidechain
25	BB	1924	C	Sidechain
25	BB	1925	C	Sidechain
25	BB	1926	U	Sidechain
25	BB	1927	A	Sidechain
25	BB	1928	A	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	1929	G	Sidechain
25	BB	193	U	Sidechain
25	BB	1930	G	Sidechain
25	BB	1931	U	Sidechain
25	BB	1932	A	Sidechain
25	BB	1934	C	Sidechain
25	BB	1935	G	Sidechain
25	BB	1936	A	Sidechain
25	BB	1939	U	Sidechain
25	BB	194	G	Sidechain
25	BB	1940	U	Sidechain
25	BB	1942	C	Sidechain
25	BB	1943	U	Sidechain
25	BB	1945	G	Sidechain
25	BB	1946	U	Sidechain
25	BB	1947	C	Sidechain
25	BB	1948	G	Sidechain
25	BB	1949	G	Sidechain
25	BB	1950	G	Sidechain
25	BB	1951	U	Sidechain
25	BB	1954	G	Sidechain
25	BB	1955	U	Sidechain
25	BB	1956	U	Sidechain
25	BB	1957	C	Sidechain
25	BB	1958	C	Sidechain
25	BB	196	A	Sidechain
25	BB	1963	U	Sidechain
25	BB	1964	G	Sidechain
25	BB	1966	A	Sidechain
25	BB	1967	C	Sidechain
25	BB	1968	G	Sidechain
25	BB	1969	A	Sidechain
25	BB	197	A	Sidechain
25	BB	1970	A	Sidechain
25	BB	1971	U	Sidechain
25	BB	1972	G	Sidechain
25	BB	1973	G	Sidechain
25	BB	1974	C	Sidechain
25	BB	1975	G	Sidechain
25	BB	1976	U	Sidechain
25	BB	1977	A	Sidechain
25	BB	198	C	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	1980	G	Sidechain
25	BB	1983	G	Sidechain
25	BB	1984	G	Sidechain
25	BB	1985	C	Sidechain
25	BB	1986	C	Sidechain
25	BB	1987	A	Sidechain
25	BB	1989	G	Sidechain
25	BB	1991	U	Sidechain
25	BB	1992	G	Sidechain
25	BB	1997	C	Sidechain
25	BB	2	G	Sidechain
25	BB	200	U	Sidechain
25	BB	2000	C	Sidechain
25	BB	2001	C	Sidechain
25	BB	2002	G	Sidechain
25	BB	2003	A	Sidechain
25	BB	2004	G	Sidechain
25	BB	2005	A	Sidechain
25	BB	2007	U	Sidechain
25	BB	2009	A	Sidechain
25	BB	2010	G	Sidechain
25	BB	2011	U	Sidechain
25	BB	2012	G	Sidechain
25	BB	2013	A	Sidechain
25	BB	2014	A	Sidechain
25	BB	2015	A	Sidechain
25	BB	2017	U	Sidechain
25	BB	2018	G	Sidechain
25	BB	202	U	Sidechain
25	BB	2020	A	Sidechain
25	BB	2021	C	Sidechain
25	BB	2022	U	Sidechain
25	BB	2024	G	Sidechain
25	BB	2025	C	Sidechain
25	BB	2026	U	Sidechain
25	BB	2027	G	Sidechain
25	BB	2029	G	Sidechain
25	BB	203	A	Sidechain
25	BB	2030	A	Sidechain
25	BB	2031	A	Sidechain
25	BB	2032	G	Sidechain
25	BB	2034	U	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	2035	G	Sidechain
25	BB	2039	U	Sidechain
25	BB	2040	G	Sidechain
25	BB	2041	U	Sidechain
25	BB	2046	G	Sidechain
25	BB	2048	G	Sidechain
25	BB	2049	G	Sidechain
25	BB	205	G	Sidechain
25	BB	2051	A	Sidechain
25	BB	2052	A	Sidechain
25	BB	2053	G	Sidechain
25	BB	2054	A	Sidechain
25	BB	2056	G	Sidechain
25	BB	2060	A	Sidechain
25	BB	2061	G	Sidechain
25	BB	2062	A	Sidechain
25	BB	2065	C	Sidechain
25	BB	2066	C	Sidechain
25	BB	2067	G	Sidechain
25	BB	2069	G	Sidechain
25	BB	207	A	Sidechain
25	BB	2071	A	Sidechain
25	BB	2073	C	Sidechain
25	BB	2074	U	Sidechain
25	BB	2078	C	Sidechain
25	BB	2079	U	Sidechain
25	BB	208	C	Sidechain
25	BB	2080	A	Sidechain
25	BB	2081	U	Sidechain
25	BB	2083	G	Sidechain
25	BB	2086	U	Sidechain
25	BB	2088	A	Sidechain
25	BB	2089	C	Sidechain
25	BB	2091	C	Sidechain
25	BB	2092	U	Sidechain
25	BB	2093	G	Sidechain
25	BB	2094	A	Sidechain
25	BB	2096	C	Sidechain
25	BB	2097	A	Sidechain
25	BB	2098	U	Sidechain
25	BB	2100	G	Sidechain
25	BB	2101	A	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	2102	G	Sidechain
25	BB	2103	C	Sidechain
25	BB	2104	C	Sidechain
25	BB	2106	U	Sidechain
25	BB	2108	A	Sidechain
25	BB	211	C	Sidechain
25	BB	2110	G	Sidechain
25	BB	2111	U	Sidechain
25	BB	2112	G	Sidechain
25	BB	2113	U	Sidechain
25	BB	2115	G	Sidechain
25	BB	2117	A	Sidechain
25	BB	2119	A	Sidechain
25	BB	212	G	Sidechain
25	BB	2120	G	Sidechain
25	BB	2122	U	Sidechain
25	BB	2123	G	Sidechain
25	BB	2125	G	Sidechain
25	BB	2126	A	Sidechain
25	BB	2127	G	Sidechain
25	BB	2128	G	Sidechain
25	BB	213	A	Sidechain
25	BB	2130	U	Sidechain
25	BB	2132	U	Sidechain
25	BB	2134	A	Sidechain
25	BB	2136	G	Sidechain
25	BB	2137	U	Sidechain
25	BB	2138	G	Sidechain
25	BB	214	G	Sidechain
25	BB	2140	G	Sidechain
25	BB	2141	G	Sidechain
25	BB	2143	C	Sidechain
25	BB	2146	C	Sidechain
25	BB	2148	G	Sidechain
25	BB	2149	U	Sidechain
25	BB	2150	C	Sidechain
25	BB	2152	G	Sidechain
25	BB	2154	A	Sidechain
25	BB	2155	U	Sidechain
25	BB	2156	G	Sidechain
25	BB	2160	C	Sidechain
25	BB	2161	C	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	2162	G	Sidechain
25	BB	2164	C	Sidechain
25	BB	2168	G	Sidechain
25	BB	2171	A	Sidechain
25	BB	2172	U	Sidechain
25	BB	2174	C	Sidechain
25	BB	2175	C	Sidechain
25	BB	2176	A	Sidechain
25	BB	2177	C	Sidechain
25	BB	2178	C	Sidechain
25	BB	2180	U	Sidechain
25	BB	2181	U	Sidechain
25	BB	2185	U	Sidechain
25	BB	2186	G	Sidechain
25	BB	2187	U	Sidechain
25	BB	2188	U	Sidechain
25	BB	2189	U	Sidechain
25	BB	219	A	Sidechain
25	BB	2194	U	Sidechain
25	BB	2196	C	Sidechain
25	BB	2197	U	Sidechain
25	BB	22	C	Sidechain
25	BB	220	G	Sidechain
25	BB	2200	C	Sidechain
25	BB	2201	G	Sidechain
25	BB	2203	U	Sidechain
25	BB	2204	G	Sidechain
25	BB	2206	C	Sidechain
25	BB	2209	G	Sidechain
25	BB	221	A	Sidechain
25	BB	2210	U	Sidechain
25	BB	2212	A	Sidechain
25	BB	2216	G	Sidechain
25	BB	2217	G	Sidechain
25	BB	2219	U	Sidechain
25	BB	222	A	Sidechain
25	BB	2220	U	Sidechain
25	BB	2221	G	Sidechain
25	BB	2222	C	Sidechain
25	BB	2223	G	Sidechain
25	BB	2226	C	Sidechain
25	BB	2227	A	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	2229	U	Sidechain
25	BB	223	A	Sidechain
25	BB	2230	G	Sidechain
25	BB	2231	U	Sidechain
25	BB	2234	G	Sidechain
25	BB	2235	G	Sidechain
25	BB	2236	U	Sidechain
25	BB	2237	G	Sidechain
25	BB	2238	G	Sidechain
25	BB	2239	G	Sidechain
25	BB	224	U	Sidechain
25	BB	2240	U	Sidechain
25	BB	2241	A	Sidechain
25	BB	2244	U	Sidechain
25	BB	2245	U	Sidechain
25	BB	2246	G	Sidechain
25	BB	2247	A	Sidechain
25	BB	2248	C	Sidechain
25	BB	2249	U	Sidechain
25	BB	2250	G	Sidechain
25	BB	2252	G	Sidechain
25	BB	2253	G	Sidechain
25	BB	2254	C	Sidechain
25	BB	2256	G	Sidechain
25	BB	2258	C	Sidechain
25	BB	226	A	Sidechain
25	BB	2260	C	Sidechain
25	BB	2261	C	Sidechain
25	BB	2263	C	Sidechain
25	BB	2264	C	Sidechain
25	BB	2266	A	Sidechain
25	BB	2268	A	Sidechain
25	BB	2271	G	Sidechain
25	BB	2272	U	Sidechain
25	BB	2273	A	Sidechain
25	BB	2274	A	Sidechain
25	BB	2275	C	Sidechain
25	BB	2276	G	Sidechain
25	BB	2277	G	Sidechain
25	BB	2278	A	Sidechain
25	BB	2279	G	Sidechain
25	BB	2282	G	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	2284	A	Sidechain
25	BB	2286	G	Sidechain
25	BB	2287	A	Sidechain
25	BB	2289	G	Sidechain
25	BB	229	C	Sidechain
25	BB	2290	G	Sidechain
25	BB	2291	U	Sidechain
25	BB	2292	U	Sidechain
25	BB	2293	G	Sidechain
25	BB	2294	G	Sidechain
25	BB	2296	U	Sidechain
25	BB	2297	A	Sidechain
25	BB	2298	A	Sidechain
25	BB	2299	U	Sidechain
25	BB	23	G	Sidechain
25	BB	230	G	Sidechain
25	BB	2300	C	Sidechain
25	BB	2301	C	Sidechain
25	BB	2302	U	Sidechain
25	BB	2303	G	Sidechain
25	BB	2304	G	Sidechain
25	BB	2307	G	Sidechain
25	BB	2309	A	Sidechain
25	BB	231	A	Sidechain
25	BB	2312	U	Sidechain
25	BB	2313	C	Sidechain
25	BB	2315	G	Sidechain
25	BB	2316	G	Sidechain
25	BB	2317	A	Sidechain
25	BB	2318	G	Sidechain
25	BB	2320	U	Sidechain
25	BB	2323	G	Sidechain
25	BB	2324	U	Sidechain
25	BB	2325	G	Sidechain
25	BB	233	A	Sidechain
25	BB	2330	G	Sidechain
25	BB	2331	G	Sidechain
25	BB	2336	A	Sidechain
25	BB	2337	G	Sidechain
25	BB	234	U	Sidechain
25	BB	2340	A	Sidechain
25	BB	2341	G	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	2342	C	Sidechain
25	BB	2343	U	Sidechain
25	BB	2348	U	Sidechain
25	BB	235	U	Sidechain
25	BB	2350	C	Sidechain
25	BB	2351	G	Sidechain
25	BB	2352	A	Sidechain
25	BB	2353	G	Sidechain
25	BB	2358	A	Sidechain
25	BB	236	C	Sidechain
25	BB	2360	G	Sidechain
25	BB	2361	G	Sidechain
25	BB	2363	G	Sidechain
25	BB	2367	G	Sidechain
25	BB	2369	A	Sidechain
25	BB	2371	G	Sidechain
25	BB	2373	G	Sidechain
25	BB	2374	C	Sidechain
25	BB	2376	A	Sidechain
25	BB	2379	G	Sidechain
25	BB	238	C	Sidechain
25	BB	2382	G	Sidechain
25	BB	2384	U	Sidechain
25	BB	2385	C	Sidechain
25	BB	2386	A	Sidechain
25	BB	2387	U	Sidechain
25	BB	2388	A	Sidechain
25	BB	2389	G	Sidechain
25	BB	2390	U	Sidechain
25	BB	2394	C	Sidechain
25	BB	2396	G	Sidechain
25	BB	2398	U	Sidechain
25	BB	2399	G	Sidechain
25	BB	24	G	Sidechain
25	BB	2400	G	Sidechain
25	BB	2401	U	Sidechain
25	BB	2402	U	Sidechain
25	BB	2404	U	Sidechain
25	BB	2405	G	Sidechain
25	BB	2407	A	Sidechain
25	BB	2408	U	Sidechain
25	BB	2409	G	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	241	A	Sidechain
25	BB	2410	G	Sidechain
25	BB	2411	A	Sidechain
25	BB	2412	A	Sidechain
25	BB	2414	G	Sidechain
25	BB	2415	G	Sidechain
25	BB	2416	C	Sidechain
25	BB	2418	A	Sidechain
25	BB	242	G	Sidechain
25	BB	2421	G	Sidechain
25	BB	2422	C	Sidechain
25	BB	2423	U	Sidechain
25	BB	2424	C	Sidechain
25	BB	2425	A	Sidechain
25	BB	2427	C	Sidechain
25	BB	2428	G	Sidechain
25	BB	2429	G	Sidechain
25	BB	243	U	Sidechain
25	BB	2431	U	Sidechain
25	BB	2432	A	Sidechain
25	BB	2433	A	Sidechain
25	BB	2437	G	Sidechain
25	BB	2439	A	Sidechain
25	BB	244	A	Sidechain
25	BB	2440	C	Sidechain
25	BB	2443	C	Sidechain
25	BB	2444	G	Sidechain
25	BB	2445	G	Sidechain
25	BB	2447	G	Sidechain
25	BB	2448	A	Sidechain
25	BB	245	G	Sidechain
25	BB	2453	A	Sidechain
25	BB	2454	G	Sidechain
25	BB	2455	G	Sidechain
25	BB	2457	U	Sidechain
25	BB	2459	A	Sidechain
25	BB	246	C	Sidechain
25	BB	2460	U	Sidechain
25	BB	2462	C	Sidechain
25	BB	2463	C	Sidechain
25	BB	2464	G	Sidechain
25	BB	2465	C	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	2466	C	Sidechain
25	BB	2467	C	Sidechain
25	BB	2469	A	Sidechain
25	BB	247	G	Sidechain
25	BB	2470	G	Sidechain
25	BB	2473	U	Sidechain
25	BB	2474	U	Sidechain
25	BB	2476	A	Sidechain
25	BB	2477	U	Sidechain
25	BB	248	G	Sidechain
25	BB	2480	C	Sidechain
25	BB	2482	A	Sidechain
25	BB	2484	G	Sidechain
25	BB	2485	G	Sidechain
25	BB	2487	G	Sidechain
25	BB	2488	G	Sidechain
25	BB	2489	U	Sidechain
25	BB	249	C	Sidechain
25	BB	2490	G	Sidechain
25	BB	2491	U	Sidechain
25	BB	2493	U	Sidechain
25	BB	2497	A	Sidechain
25	BB	2498	C	Sidechain
25	BB	2499	C	Sidechain
25	BB	250	G	Sidechain
25	BB	2502	G	Sidechain
25	BB	2505	G	Sidechain
25	BB	2506	U	Sidechain
25	BB	2508	G	Sidechain
25	BB	2509	G	Sidechain
25	BB	2510	C	Sidechain
25	BB	2511	U	Sidechain
25	BB	2515	C	Sidechain
25	BB	2516	A	Sidechain
25	BB	2517	C	Sidechain
25	BB	2518	A	Sidechain
25	BB	252	G	Sidechain
25	BB	2520	C	Sidechain
25	BB	2521	C	Sidechain
25	BB	2522	U	Sidechain
25	BB	2524	G	Sidechain
25	BB	2525	G	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	2526	G	Sidechain
25	BB	2528	U	Sidechain
25	BB	2529	G	Sidechain
25	BB	253	C	Sidechain
25	BB	2530	A	Sidechain
25	BB	2532	G	Sidechain
25	BB	2534	A	Sidechain
25	BB	2535	G	Sidechain
25	BB	2538	C	Sidechain
25	BB	2539	C	Sidechain
25	BB	2541	A	Sidechain
25	BB	2542	A	Sidechain
25	BB	2543	G	Sidechain
25	BB	2545	G	Sidechain
25	BB	2546	U	Sidechain
25	BB	2549	G	Sidechain
25	BB	255	A	Sidechain
25	BB	2550	G	Sidechain
25	BB	2551	C	Sidechain
25	BB	2552	U	Sidechain
25	BB	2553	G	Sidechain
25	BB	2555	U	Sidechain
25	BB	2557	G	Sidechain
25	BB	2558	C	Sidechain
25	BB	256	A	Sidechain
25	BB	2560	A	Sidechain
25	BB	2562	U	Sidechain
25	BB	2563	U	Sidechain
25	BB	2564	A	Sidechain
25	BB	2569	G	Sidechain
25	BB	257	C	Sidechain
25	BB	2570	G	Sidechain
25	BB	2571	U	Sidechain
25	BB	2572	A	Sidechain
25	BB	2576	G	Sidechain
25	BB	2577	A	Sidechain
25	BB	2578	G	Sidechain
25	BB	2579	C	Sidechain
25	BB	258	G	Sidechain
25	BB	2580	U	Sidechain
25	BB	2581	G	Sidechain
25	BB	2582	G	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	2583	G	Sidechain
25	BB	2585	U	Sidechain
25	BB	2586	U	Sidechain
25	BB	2588	G	Sidechain
25	BB	2590	A	Sidechain
25	BB	2591	C	Sidechain
25	BB	2593	U	Sidechain
25	BB	2594	C	Sidechain
25	BB	2595	G	Sidechain
25	BB	2596	U	Sidechain
25	BB	2597	G	Sidechain
25	BB	2598	A	Sidechain
25	BB	2599	G	Sidechain
25	BB	26	G	Sidechain
25	BB	260	G	Sidechain
25	BB	2600	A	Sidechain
25	BB	2601	C	Sidechain
25	BB	2602	A	Sidechain
25	BB	2604	U	Sidechain
25	BB	2605	U	Sidechain
25	BB	2606	C	Sidechain
25	BB	2609	U	Sidechain
25	BB	2611	C	Sidechain
25	BB	2614	A	Sidechain
25	BB	2615	U	Sidechain
25	BB	2617	U	Sidechain
25	BB	2618	G	Sidechain
25	BB	262	A	Sidechain
25	BB	2621	G	Sidechain
25	BB	2624	G	Sidechain
25	BB	2627	G	Sidechain
25	BB	2628	C	Sidechain
25	BB	2629	U	Sidechain
25	BB	2630	G	Sidechain
25	BB	2637	U	Sidechain
25	BB	2639	A	Sidechain
25	BB	264	C	Sidechain
25	BB	2640	G	Sidechain
25	BB	2641	G	Sidechain
25	BB	2642	G	Sidechain
25	BB	2644	G	Sidechain
25	BB	2645	G	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	2646	C	Sidechain
25	BB	2647	U	Sidechain
25	BB	2649	C	Sidechain
25	BB	2651	C	Sidechain
25	BB	2652	C	Sidechain
25	BB	2653	U	Sidechain
25	BB	2654	A	Sidechain
25	BB	2655	G	Sidechain
25	BB	2656	U	Sidechain
25	BB	2658	C	Sidechain
25	BB	2659	G	Sidechain
25	BB	266	G	Sidechain
25	BB	2660	A	Sidechain
25	BB	2662	A	Sidechain
25	BB	2663	G	Sidechain
25	BB	2664	G	Sidechain
25	BB	2665	A	Sidechain
25	BB	2667	C	Sidechain
25	BB	2668	G	Sidechain
25	BB	267	C	Sidechain
25	BB	2671	G	Sidechain
25	BB	2673	G	Sidechain
25	BB	2674	G	Sidechain
25	BB	2675	A	Sidechain
25	BB	2676	C	Sidechain
25	BB	2677	G	Sidechain
25	BB	2680	U	Sidechain
25	BB	2682	A	Sidechain
25	BB	2684	U	Sidechain
25	BB	2685	G	Sidechain
25	BB	2686	G	Sidechain
25	BB	2687	U	Sidechain
25	BB	2688	G	Sidechain
25	BB	2689	U	Sidechain
25	BB	2690	U	Sidechain
25	BB	2691	C	Sidechain
25	BB	2692	G	Sidechain
25	BB	2694	G	Sidechain
25	BB	2696	U	Sidechain
25	BB	2697	G	Sidechain
25	BB	2698	U	Sidechain
25	BB	2699	C	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	27	G	Sidechain
25	BB	2701	U	Sidechain
25	BB	2702	G	Sidechain
25	BB	2703	C	Sidechain
25	BB	2706	A	Sidechain
25	BB	2707	U	Sidechain
25	BB	2708	G	Sidechain
25	BB	2709	G	Sidechain
25	BB	271	G	Sidechain
25	BB	2710	C	Sidechain
25	BB	2712	C	Sidechain
25	BB	2714	G	Sidechain
25	BB	2715	C	Sidechain
25	BB	2716	C	Sidechain
25	BB	2717	C	Sidechain
25	BB	2718	G	Sidechain
25	BB	2719	G	Sidechain
25	BB	272	A	Sidechain
25	BB	2720	U	Sidechain
25	BB	2721	A	Sidechain
25	BB	2722	G	Sidechain
25	BB	2727	A	Sidechain
25	BB	2728	U	Sidechain
25	BB	2729	G	Sidechain
25	BB	273	G	Sidechain
25	BB	2730	C	Sidechain
25	BB	2731	G	Sidechain
25	BB	2732	G	Sidechain
25	BB	2733	A	Sidechain
25	BB	2734	A	Sidechain
25	BB	2736	A	Sidechain
25	BB	2737	G	Sidechain
25	BB	2741	A	Sidechain
25	BB	2742	G	Sidechain
25	BB	2743	U	Sidechain
25	BB	2747	G	Sidechain
25	BB	2748	A	Sidechain
25	BB	2749	A	Sidechain
25	BB	275	C	Sidechain
25	BB	2751	G	Sidechain
25	BB	2752	C	Sidechain
25	BB	2753	A	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	2756	U	Sidechain
25	BB	2757	A	Sidechain
25	BB	2758	A	Sidechain
25	BB	2759	G	Sidechain
25	BB	276	U	Sidechain
25	BB	2760	C	Sidechain
25	BB	2762	C	Sidechain
25	BB	2764	A	Sidechain
25	BB	2765	A	Sidechain
25	BB	2766	A	Sidechain
25	BB	2767	C	Sidechain
25	BB	2769	U	Sidechain
25	BB	2770	G	Sidechain
25	BB	2771	C	Sidechain
25	BB	2772	C	Sidechain
25	BB	2773	C	Sidechain
25	BB	2774	C	Sidechain
25	BB	2775	G	Sidechain
25	BB	2776	A	Sidechain
25	BB	2777	G	Sidechain
25	BB	2778	A	Sidechain
25	BB	278	A	Sidechain
25	BB	2780	G	Sidechain
25	BB	2781	A	Sidechain
25	BB	2782	G	Sidechain
25	BB	2783	U	Sidechain
25	BB	2784	U	Sidechain
25	BB	2785	C	Sidechain
25	BB	2786	U	Sidechain
25	BB	2788	C	Sidechain
25	BB	2793	C	Sidechain
25	BB	2795	C	Sidechain
25	BB	28	A	Sidechain
25	BB	280	U	Sidechain
25	BB	2800	A	Sidechain
25	BB	2801	G	Sidechain
25	BB	2802	G	Sidechain
25	BB	2804	U	Sidechain
25	BB	2807	U	Sidechain
25	BB	2808	G	Sidechain
25	BB	2809	A	Sidechain
25	BB	281	C	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	2810	A	Sidechain
25	BB	2811	G	Sidechain
25	BB	2812	G	Sidechain
25	BB	2813	A	Sidechain
25	BB	2814	A	Sidechain
25	BB	2815	C	Sidechain
25	BB	2816	G	Sidechain
25	BB	2818	U	Sidechain
25	BB	2819	G	Sidechain
25	BB	282	A	Sidechain
25	BB	2821	A	Sidechain
25	BB	2822	G	Sidechain
25	BB	2824	C	Sidechain
25	BB	2825	G	Sidechain
25	BB	2826	A	Sidechain
25	BB	2827	C	Sidechain
25	BB	2828	G	Sidechain
25	BB	2829	A	Sidechain
25	BB	283	G	Sidechain
25	BB	2830	C	Sidechain
25	BB	2831	G	Sidechain
25	BB	2832	U	Sidechain
25	BB	2834	G	Sidechain
25	BB	2835	A	Sidechain
25	BB	2836	U	Sidechain
25	BB	2838	G	Sidechain
25	BB	2839	G	Sidechain
25	BB	2840	C	Sidechain
25	BB	2842	G	Sidechain
25	BB	2843	G	Sidechain
25	BB	2844	G	Sidechain
25	BB	2845	U	Sidechain
25	BB	2846	G	Sidechain
25	BB	2847	U	Sidechain
25	BB	2848	G	Sidechain
25	BB	2849	U	Sidechain
25	BB	2850	A	Sidechain
25	BB	2851	A	Sidechain
25	BB	2856	A	Sidechain
25	BB	2857	G	Sidechain
25	BB	2858	C	Sidechain
25	BB	2859	G	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	286	U	Sidechain
25	BB	2860	A	Sidechain
25	BB	2861	U	Sidechain
25	BB	2862	G	Sidechain
25	BB	2864	G	Sidechain
25	BB	2867	G	Sidechain
25	BB	2868	A	Sidechain
25	BB	2869	G	Sidechain
25	BB	2871	U	Sidechain
25	BB	2874	C	Sidechain
25	BB	2875	C	Sidechain
25	BB	2876	G	Sidechain
25	BB	2879	A	Sidechain
25	BB	288	U	Sidechain
25	BB	2881	U	Sidechain
25	BB	2882	A	Sidechain
25	BB	2887	A	Sidechain
25	BB	2888	C	Sidechain
25	BB	2890	G	Sidechain
25	BB	2891	U	Sidechain
25	BB	2893	A	Sidechain
25	BB	2896	C	Sidechain
25	BB	2897	U	Sidechain
25	BB	2898	U	Sidechain
25	BB	2902	C	Sidechain
25	BB	2903	U	Sidechain
25	BB	292	U	Sidechain
25	BB	294	A	Sidechain
25	BB	295	G	Sidechain
25	BB	296	U	Sidechain
25	BB	298	G	Sidechain
25	BB	299	A	Sidechain
25	BB	3	U	Sidechain
25	BB	30	G	Sidechain
25	BB	302	C	Sidechain
25	BB	306	U	Sidechain
25	BB	307	G	Sidechain
25	BB	310	A	Sidechain
25	BB	311	A	Sidechain
25	BB	314	C	Sidechain
25	BB	316	C	Sidechain
25	BB	317	G	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	32	C	Sidechain
25	BB	320	A	Sidechain
25	BB	322	A	Sidechain
25	BB	325	G	Sidechain
25	BB	327	G	Sidechain
25	BB	329	G	Sidechain
25	BB	33	C	Sidechain
25	BB	331	C	Sidechain
25	BB	333	G	Sidechain
25	BB	334	C	Sidechain
25	BB	335	C	Sidechain
25	BB	336	C	Sidechain
25	BB	337	C	Sidechain
25	BB	338	G	Sidechain
25	BB	339	U	Sidechain
25	BB	34	U	Sidechain
25	BB	340	A	Sidechain
25	BB	341	C	Sidechain
25	BB	342	A	Sidechain
25	BB	344	A	Sidechain
25	BB	346	A	Sidechain
25	BB	347	A	Sidechain
25	BB	348	A	Sidechain
25	BB	349	U	Sidechain
25	BB	35	G	Sidechain
25	BB	350	G	Sidechain
25	BB	351	C	Sidechain
25	BB	353	C	Sidechain
25	BB	354	A	Sidechain
25	BB	356	G	Sidechain
25	BB	357	C	Sidechain
25	BB	359	G	Sidechain
25	BB	36	G	Sidechain
25	BB	360	U	Sidechain
25	BB	361	G	Sidechain
25	BB	363	G	Sidechain
25	BB	364	C	Sidechain
25	BB	365	U	Sidechain
25	BB	368	A	Sidechain
25	BB	369	U	Sidechain
25	BB	37	C	Sidechain
25	BB	370	G	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	371	A	Sidechain
25	BB	375	G	Sidechain
25	BB	376	G	Sidechain
25	BB	377	G	Sidechain
25	BB	378	C	Sidechain
25	BB	379	G	Sidechain
25	BB	380	G	Sidechain
25	BB	381	G	Sidechain
25	BB	382	A	Sidechain
25	BB	384	A	Sidechain
25	BB	385	C	Sidechain
25	BB	386	G	Sidechain
25	BB	388	G	Sidechain
25	BB	389	G	Sidechain
25	BB	39	G	Sidechain
25	BB	390	U	Sidechain
25	BB	392	U	Sidechain
25	BB	393	C	Sidechain
25	BB	394	C	Sidechain
25	BB	396	G	Sidechain
25	BB	398	C	Sidechain
25	BB	399	U	Sidechain
25	BB	4	U	Sidechain
25	BB	400	G	Sidechain
25	BB	402	A	Sidechain
25	BB	403	U	Sidechain
25	BB	404	A	Sidechain
25	BB	405	U	Sidechain
25	BB	406	G	Sidechain
25	BB	409	G	Sidechain
25	BB	41	C	Sidechain
25	BB	412	A	Sidechain
25	BB	413	C	Sidechain
25	BB	416	U	Sidechain
25	BB	417	C	Sidechain
25	BB	42	A	Sidechain
25	BB	423	A	Sidechain
25	BB	425	G	Sidechain
25	BB	429	A	Sidechain
25	BB	432	A	Sidechain
25	BB	434	U	Sidechain
25	BB	436	C	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	437	U	Sidechain
25	BB	438	G	Sidechain
25	BB	439	A	Sidechain
25	BB	44	A	Sidechain
25	BB	441	U	Sidechain
25	BB	443	A	Sidechain
25	BB	444	C	Sidechain
25	BB	445	C	Sidechain
25	BB	446	G	Sidechain
25	BB	447	A	Sidechain
25	BB	448	U	Sidechain
25	BB	449	A	Sidechain
25	BB	45	G	Sidechain
25	BB	453	A	Sidechain
25	BB	456	C	Sidechain
25	BB	457	A	Sidechain
25	BB	459	U	Sidechain
25	BB	46	G	Sidechain
25	BB	461	C	Sidechain
25	BB	463	G	Sidechain
25	BB	464	U	Sidechain
25	BB	465	G	Sidechain
25	BB	469	G	Sidechain
25	BB	47	C	Sidechain
25	BB	471	A	Sidechain
25	BB	473	G	Sidechain
25	BB	474	G	Sidechain
25	BB	475	C	Sidechain
25	BB	477	A	Sidechain
25	BB	478	A	Sidechain
25	BB	479	A	Sidechain
25	BB	481	G	Sidechain
25	BB	482	A	Sidechain
25	BB	483	A	Sidechain
25	BB	486	C	Sidechain
25	BB	487	C	Sidechain
25	BB	488	G	Sidechain
25	BB	489	G	Sidechain
25	BB	491	G	Sidechain
25	BB	492	A	Sidechain
25	BB	493	G	Sidechain
25	BB	494	G	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	495	G	Sidechain
25	BB	496	G	Sidechain
25	BB	499	U	Sidechain
25	BB	50	U	Sidechain
25	BB	500	G	Sidechain
25	BB	505	A	Sidechain
25	BB	506	G	Sidechain
25	BB	51	G	Sidechain
25	BB	511	U	Sidechain
25	BB	512	G	Sidechain
25	BB	513	A	Sidechain
25	BB	514	A	Sidechain
25	BB	515	A	Sidechain
25	BB	516	C	Sidechain
25	BB	518	G	Sidechain
25	BB	519	U	Sidechain
25	BB	52	A	Sidechain
25	BB	520	G	Sidechain
25	BB	521	U	Sidechain
25	BB	523	C	Sidechain
25	BB	524	G	Sidechain
25	BB	525	U	Sidechain
25	BB	526	A	Sidechain
25	BB	529	A	Sidechain
25	BB	53	A	Sidechain
25	BB	531	C	Sidechain
25	BB	532	A	Sidechain
25	BB	533	G	Sidechain
25	BB	534	U	Sidechain
25	BB	535	G	Sidechain
25	BB	536	G	Sidechain
25	BB	537	G	Sidechain
25	BB	539	G	Sidechain
25	BB	54	G	Sidechain
25	BB	541	A	Sidechain
25	BB	542	C	Sidechain
25	BB	543	G	Sidechain
25	BB	545	U	Sidechain
25	BB	546	U	Sidechain
25	BB	547	A	Sidechain
25	BB	548	G	Sidechain
25	BB	549	G	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	55	G	Sidechain
25	BB	552	U	Sidechain
25	BB	553	G	Sidechain
25	BB	554	U	Sidechain
25	BB	555	G	Sidechain
25	BB	556	A	Sidechain
25	BB	559	G	Sidechain
25	BB	56	A	Sidechain
25	BB	560	C	Sidechain
25	BB	562	U	Sidechain
25	BB	565	C	Sidechain
25	BB	566	U	Sidechain
25	BB	567	U	Sidechain
25	BB	568	U	Sidechain
25	BB	570	G	Sidechain
25	BB	571	U	Sidechain
25	BB	572	A	Sidechain
25	BB	573	U	Sidechain
25	BB	576	U	Sidechain
25	BB	577	G	Sidechain
25	BB	578	G	Sidechain
25	BB	579	G	Sidechain
25	BB	58	G	Sidechain
25	BB	581	C	Sidechain
25	BB	583	G	Sidechain
25	BB	584	C	Sidechain
25	BB	585	G	Sidechain
25	BB	586	A	Sidechain
25	BB	587	C	Sidechain
25	BB	589	U	Sidechain
25	BB	590	A	Sidechain
25	BB	591	U	Sidechain
25	BB	592	A	Sidechain
25	BB	594	U	Sidechain
25	BB	596	U	Sidechain
25	BB	598	U	Sidechain
25	BB	6	A	Sidechain
25	BB	60	G	Sidechain
25	BB	600	G	Sidechain
25	BB	603	A	Sidechain
25	BB	604	G	Sidechain
25	BB	606	U	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	608	A	Sidechain
25	BB	609	A	Sidechain
25	BB	61	C	Sidechain
25	BB	611	C	Sidechain
25	BB	612	G	Sidechain
25	BB	613	A	Sidechain
25	BB	614	A	Sidechain
25	BB	617	G	Sidechain
25	BB	618	G	Sidechain
25	BB	620	G	Sidechain
25	BB	621	A	Sidechain
25	BB	623	C	Sidechain
25	BB	625	G	Sidechain
25	BB	628	G	Sidechain
25	BB	629	G	Sidechain
25	BB	630	G	Sidechain
25	BB	631	A	Sidechain
25	BB	633	A	Sidechain
25	BB	636	G	Sidechain
25	BB	638	G	Sidechain
25	BB	641	U	Sidechain
25	BB	644	A	Sidechain
25	BB	645	C	Sidechain
25	BB	646	U	Sidechain
25	BB	647	G	Sidechain
25	BB	648	G	Sidechain
25	BB	649	G	Sidechain
25	BB	65	U	Sidechain
25	BB	652	U	Sidechain
25	BB	655	A	Sidechain
25	BB	656	G	Sidechain
25	BB	66	C	Sidechain
25	BB	663	G	Sidechain
25	BB	664	G	Sidechain
25	BB	665	U	Sidechain
25	BB	667	U	Sidechain
25	BB	668	A	Sidechain
25	BB	669	G	Sidechain
25	BB	67	U	Sidechain
25	BB	671	C	Sidechain
25	BB	673	C	Sidechain
25	BB	674	G	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	675	A	Sidechain
25	BB	676	A	Sidechain
25	BB	677	A	Sidechain
25	BB	678	C	Sidechain
25	BB	679	C	Sidechain
25	BB	68	G	Sidechain
25	BB	682	G	Sidechain
25	BB	684	G	Sidechain
25	BB	685	A	Sidechain
25	BB	687	C	Sidechain
25	BB	689	A	Sidechain
25	BB	69	C	Sidechain
25	BB	690	G	Sidechain
25	BB	691	C	Sidechain
25	BB	692	C	Sidechain
25	BB	693	A	Sidechain
25	BB	695	G	Sidechain
25	BB	696	G	Sidechain
25	BB	697	G	Sidechain
25	BB	699	A	Sidechain
25	BB	7	G	Sidechain
25	BB	70	G	Sidechain
25	BB	700	G	Sidechain
25	BB	701	G	Sidechain
25	BB	703	U	Sidechain
25	BB	704	G	Sidechain
25	BB	705	A	Sidechain
25	BB	706	A	Sidechain
25	BB	708	G	Sidechain
25	BB	712	G	Sidechain
25	BB	713	G	Sidechain
25	BB	714	U	Sidechain
25	BB	715	A	Sidechain
25	BB	716	A	Sidechain
25	BB	718	A	Sidechain
25	BB	719	C	Sidechain
25	BB	720	U	Sidechain
25	BB	723	C	Sidechain
25	BB	725	G	Sidechain
25	BB	731	C	Sidechain
25	BB	732	C	Sidechain
25	BB	733	G	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	735	A	Sidechain
25	BB	736	C	Sidechain
25	BB	738	G	Sidechain
25	BB	739	A	Sidechain
25	BB	74	A	Sidechain
25	BB	740	C	Sidechain
25	BB	741	U	Sidechain
25	BB	745	G	Sidechain
25	BB	746	U	Sidechain
25	BB	747	U	Sidechain
25	BB	748	G	Sidechain
25	BB	754	U	Sidechain
25	BB	758	C	Sidechain
25	BB	76	C	Sidechain
25	BB	761	A	Sidechain
25	BB	764	A	Sidechain
25	BB	765	C	Sidechain
25	BB	767	U	Sidechain
25	BB	768	G	Sidechain
25	BB	769	U	Sidechain
25	BB	77	G	Sidechain
25	BB	770	G	Sidechain
25	BB	771	G	Sidechain
25	BB	773	U	Sidechain
25	BB	774	G	Sidechain
25	BB	775	G	Sidechain
25	BB	776	G	Sidechain
25	BB	777	G	Sidechain
25	BB	778	G	Sidechain
25	BB	779	U	Sidechain
25	BB	78	U	Sidechain
25	BB	780	G	Sidechain
25	BB	782	A	Sidechain
25	BB	784	G	Sidechain
25	BB	785	G	Sidechain
25	BB	786	C	Sidechain
25	BB	788	A	Sidechain
25	BB	79	C	Sidechain
25	BB	792	A	Sidechain
25	BB	794	A	Sidechain
25	BB	795	C	Sidechain
25	BB	796	C	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	797	G	Sidechain
25	BB	798	G	Sidechain
25	BB	799	G	Sidechain
25	BB	8	C	Sidechain
25	BB	80	G	Sidechain
25	BB	800	A	Sidechain
25	BB	801	G	Sidechain
25	BB	802	A	Sidechain
25	BB	803	U	Sidechain
25	BB	804	A	Sidechain
25	BB	805	G	Sidechain
25	BB	807	U	Sidechain
25	BB	808	G	Sidechain
25	BB	81	G	Sidechain
25	BB	811	U	Sidechain
25	BB	812	C	Sidechain
25	BB	813	U	Sidechain
25	BB	815	C	Sidechain
25	BB	817	C	Sidechain
25	BB	818	G	Sidechain
25	BB	819	A	Sidechain
25	BB	823	C	Sidechain
25	BB	824	U	Sidechain
25	BB	826	U	Sidechain
25	BB	827	U	Sidechain
25	BB	828	U	Sidechain
25	BB	829	A	Sidechain
25	BB	83	A	Sidechain
25	BB	830	G	Sidechain
25	BB	832	U	Sidechain
25	BB	833	A	Sidechain
25	BB	835	C	Sidechain
25	BB	836	G	Sidechain
25	BB	837	C	Sidechain
25	BB	838	C	Sidechain
25	BB	839	U	Sidechain
25	BB	84	A	Sidechain
25	BB	840	C	Sidechain
25	BB	843	G	Sidechain
25	BB	844	A	Sidechain
25	BB	845	A	Sidechain
25	BB	849	A	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	85	G	Sidechain
25	BB	851	C	Sidechain
25	BB	852	U	Sidechain
25	BB	854	C	Sidechain
25	BB	855	G	Sidechain
25	BB	856	G	Sidechain
25	BB	857	G	Sidechain
25	BB	858	G	Sidechain
25	BB	859	G	Sidechain
25	BB	86	G	Sidechain
25	BB	860	U	Sidechain
25	BB	861	A	Sidechain
25	BB	862	G	Sidechain
25	BB	863	A	Sidechain
25	BB	864	G	Sidechain
25	BB	865	C	Sidechain
25	BB	867	C	Sidechain
25	BB	868	U	Sidechain
25	BB	869	G	Sidechain
25	BB	871	U	Sidechain
25	BB	874	G	Sidechain
25	BB	875	G	Sidechain
25	BB	877	A	Sidechain
25	BB	878	A	Sidechain
25	BB	879	G	Sidechain
25	BB	88	G	Sidechain
25	BB	880	G	Sidechain
25	BB	881	G	Sidechain
25	BB	882	G	Sidechain
25	BB	884	U	Sidechain
25	BB	885	C	Sidechain
25	BB	888	C	Sidechain
25	BB	89	A	Sidechain
25	BB	892	A	Sidechain
25	BB	894	U	Sidechain
25	BB	9	G	Sidechain
25	BB	900	A	Sidechain
25	BB	901	C	Sidechain
25	BB	902	C	Sidechain
25	BB	904	G	Sidechain
25	BB	905	A	Sidechain
25	BB	906	U	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	907	G	Sidechain
25	BB	909	A	Sidechain
25	BB	91	A	Sidechain
25	BB	910	A	Sidechain
25	BB	911	A	Sidechain
25	BB	912	C	Sidechain
25	BB	917	A	Sidechain
25	BB	918	A	Sidechain
25	BB	919	U	Sidechain
25	BB	92	U	Sidechain
25	BB	920	A	Sidechain
25	BB	921	C	Sidechain
25	BB	923	G	Sidechain
25	BB	924	G	Sidechain
25	BB	926	G	Sidechain
25	BB	927	A	Sidechain
25	BB	931	U	Sidechain
25	BB	932	U	Sidechain
25	BB	933	A	Sidechain
25	BB	938	G	Sidechain
25	BB	939	G	Sidechain
25	BB	94	A	Sidechain
25	BB	943	A	Sidechain
25	BB	944	C	Sidechain
25	BB	947	A	Sidechain
25	BB	949	G	Sidechain
25	BB	95	A	Sidechain
25	BB	952	G	Sidechain
25	BB	953	G	Sidechain
25	BB	954	G	Sidechain
25	BB	955	U	Sidechain
25	BB	956	G	Sidechain
25	BB	959	A	Sidechain
25	BB	96	C	Sidechain
25	BB	960	A	Sidechain
25	BB	962	G	Sidechain
25	BB	963	U	Sidechain
25	BB	965	C	Sidechain
25	BB	968	C	Sidechain
25	BB	969	G	Sidechain
25	BB	970	U	Sidechain
25	BB	971	G	Sidechain

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Mol	Chain	Res	Type	Group
25	BB	972	A	Sidechain
25	BB	973	A	Sidechain
25	BB	974	G	Sidechain
25	BB	977	G	Sidechain
25	BB	978	G	Sidechain
25	BB	98	G	Sidechain
25	BB	984	A	Sidechain
25	BB	985	C	Sidechain
25	BB	987	C	Sidechain
25	BB	988	A	Sidechain
25	BB	991	C	Sidechain
25	BB	992	C	Sidechain
25	BB	995	C	Sidechain
25	BB	997	G	Sidechain
25	BB	998	C	Sidechain
26	BC	25	LYS	Peptide
26	BC	82	TYR	Sidechain
27	BD	11	ALA	Peptide
27	BD	29	HIS	Sidechain,Peptide
27	BD	40	LYS	Peptide
28	BE	107	PHE	Sidechain
28	BE	54	GLN	Peptide
28	BE	66	PHE	Sidechain
28	BE	80	SER	Peptide
28	BE	86	GLU	Sidechain
29	BF	114	ARG	Sidechain,Peptide
29	BF	117	PHE	Sidechain
29	BF	38	ARG	Sidechain
29	BF	55	ARG	Sidechain
29	BF	76	LYS	Peptide
29	BF	8	LYS	Peptide
29	BF	9	PHE	Sidechain
29	BF	99	GLY	Peptide
30	BG	100	CYS	Peptide
30	BG	103	ARG	Sidechain
30	BG	112	TYR	Sidechain
30	BG	118	ARG	Sidechain
30	BG	90	ARG	Sidechain
31	BH	24	THR	Peptide
31	BH	48	LEU	Mainchain
31	BH	69	ASP	Sidechain
31	BH	71	ALA	Peptide

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Mol	Chain	Res	Type	Group
31	BH	9	ARG	Sidechain
31	BH	92	PHE	Sidechain
31	BH	99	TYR	Sidechain
32	BI	102	ARG	Sidechain
32	BI	32	VAL	Peptide
32	BI	5	LYS	Peptide
32	BI	63	ILE	Peptide
32	BI	92	ARG	Sidechain
32	BI	97	TYR	Sidechain
33	BJ	24	TYR	Sidechain
33	BJ	57	ARG	Sidechain
33	BJ	75	TYR	Sidechain
34	BK	10	LYS	Peptide
34	BK	2	TYR	Sidechain
34	BK	23	GLU	Sidechain
34	BK	42	ALA	Peptide
34	BK	5	PHE	Sidechain
34	BK	57	GLY	Peptide
34	BK	75	VAL	Peptide
34	BK	81	LYS	Peptide
34	BK	84	ARG	Sidechain
34	BK	87	GLN	Peptide
34	BK	92	TRP	Peptide
35	BL	11	ARG	Sidechain
35	BL	25	ARG	Sidechain
35	BL	78	GLU	Peptide
35	BL	93	ALA	Peptide
36	BM	38	ALA	Peptide
36	BM	51	PHE	Mainchain
36	BM	53	VAL	Peptide
37	BN	12	ARG	Sidechain,Peptide
37	BN	127	ASN	Peptide
37	BN	145	MET	Peptide
37	BN	146	LYS	Peptide
37	BN	164	VAL	Peptide
37	BN	249	VAL	Peptide
37	BN	39	SER	Peptide
37	BN	52	HIS	Sidechain
37	BN	62	ARG	Sidechain
37	BN	63	ILE	Peptide
37	BN	68	ARG	Sidechain
38	BO	21	ARG	Sidechain

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Mol	Chain	Res	Type	Group
38	BO	7	ASP	Peptide
38	BO	70	ALA	Peptide
38	BO	75	ALA	Peptide
39	BP	19	ARG	Sidechain
39	BP	23	LYS	Mainchain
39	BP	27	GLY	Peptide
39	BP	31	LEU	Peptide
39	BP	4	LYS	Peptide
39	BP	76	ARG	Sidechain
39	BP	80	SER	Peptide
41	BR	15	ARG	Sidechain
41	BR	17	PRO	Mainchain
41	BR	19	HIS	Sidechain
41	BR	37	ARG	Peptide
42	BS	13	THR	Peptide
42	BS	3	LYS	Peptide
42	BS	49	ARG	Peptide
42	BS	56	ARG	Sidechain
42	BS	60	PHE	Sidechain
42	BS	64	PHE	Sidechain
42	BS	9	TYR	Peptide
43	BT	14	MET	Peptide
43	BT	18	HIS	Sidechain
43	BT	39	ARG	Sidechain
44	BU	24	LYS	Peptide
44	BU	32	LYS	Peptide
44	BU	51	ALA	Peptide
45	BV	33	ARG	Sidechain
45	BV	35	ARG	Sidechain
45	BV	4	THR	Peptide
45	BV	5	PHE	Peptide
46	BW	11	LYS	Peptide
46	BW	12	ARG	Sidechain
46	BW	13	PHE	Sidechain
46	BW	22	LYS	Peptide
46	BW	25	HIS	Sidechain
46	BW	29	ARG	Sidechain
46	BW	51	LYS	Peptide
47	BX	15	LYS	Peptide
48	BY	128	ARG	Sidechain
48	BY	153	GLY	Peptide
48	BY	29	VAL	Peptide

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Mol	Chain	Res	Type	Group
48	BY	41	ALA	Peptide
48	BY	45	TYR	Sidechain
48	BY	59	ARG	Sidechain
48	BY	7	LYS	Peptide
48	BY	83	ARG	Sidechain
49	BZ	106	GLN	Peptide
49	BZ	108	GLU	Mainchain
49	BZ	110	PHE	Sidechain
49	BZ	147	TYR	Sidechain
49	BZ	150	ARG	Sidechain
49	BZ	151	PHE	Sidechain
49	BZ	157	VAL	Peptide
49	BZ	207	THR	Peptide
49	BZ	217	ARG	Sidechain

5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	1600	0	754	13	0
1	AE	1622	0	773	5	0
1	AP	1600	0	756	42	0
2	AM	397	0	202	4	0
3	A1	32828	0	15398	147	0
4	AB	1704	0	1732	7	0
5	AC	876	0	887	5	0
6	AD	954	0	1019	5	0
7	AF	883	0	944	5	0
8	AG	773	0	824	4	0
9	AH	715	0	742	3	0
10	AI	648	0	666	0	0
11	AJ	648	0	691	2	0
12	AK	455	0	478	1	0
13	AL	637	0	665	5	0
14	AN	664	0	714	5	0
15	AO	1624	0	1699	2	0
16	AQ	425	0	449	1	0
17	AR	1642	0	1710	6	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
18	AS	1105	0	1148	3	0
19	AT	817	0	808	2	0
20	AU	1174	0	1230	0	0
21	AV	978	0	1034	3	0
22	AW	1021	0	1070	0	0
23	AX	786	0	828	7	0
24	BA	2504	0	1160	13	0
25	BB	62317	0	29301	262	0
26	BC	752	0	780	2	0
27	BD	930	0	1000	1	0
28	BE	1052	0	1129	6	0
29	BF	1073	0	1157	8	0
30	BG	1007	0	1045	5	0
31	BH	899	0	935	2	0
32	BI	916	0	965	6	0
33	BJ	946	0	1022	3	0
34	BK	815	0	839	5	0
35	BL	856	0	922	2	0
36	BM	777	0	840	5	0
37	BN	2053	0	2122	10	0
38	BO	779	0	834	8	0
39	BP	633	0	656	0	0
40	BQ	508	0	543	5	0
41	BR	448	0	491	0	0
42	BS	548	0	552	0	0
43	BT	443	0	461	1	0
44	BU	440	0	485	1	0
45	BV	376	0	418	5	0
46	BW	503	0	574	3	0
47	BX	301	0	343	0	0
48	BY	1564	0	1616	7	0
49	BZ	1687	0	1814	4	0
50	B1	1551	0	1619	6	0
51	B2	1419	0	1460	6	0
52	B3	1322	0	1374	4	0
53	B4	1110	0	1148	1	0
54	B5	1031	0	1088	2	0
55	B6	1112	0	1147	1	0
All	All	149248	0	97061	544	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 2.

All (544) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BB:1687:G:C2'	25:BB:1687:G:C3'	1.94	1.42
25:BB:1687:G:C2'	25:BB:1687:G:C1'	1.98	1.40
1:AP:31:A:C2'	3:A1:1340:A:H3'	1.50	1.40
25:BB:1687:G:C3'	25:BB:1687:G:C4'	1.99	1.37
1:AP:31:A:C2'	1:AP:31:A:C1'	2.04	1.35
1:AP:31:A:C2'	1:AP:31:A:C3'	2.06	1.32
1:AP:31:A:C3'	1:AP:31:A:C4'	2.08	1.30
25:BB:1687:G:C4'	25:BB:1687:G:O4'	1.85	1.25
25:BB:1687:G:C1'	25:BB:1687:G:O4'	1.87	1.21
25:BB:995:C:C4	25:BB:1159:U:H1'	1.77	1.20
1:AP:31:A:C4'	1:AP:31:A:O4'	1.92	1.17
25:BB:995:C:C4	25:BB:1159:U:C2	2.34	1.15
1:AP:31:A:C1'	1:AP:31:A:O4'	2.00	1.10
1:AP:31:A:C1'	3:A1:1340:A:C3'	2.30	1.09
1:AP:31:A:C2'	3:A1:1340:A:C3'	2.34	1.06
1:AP:31:A:C3'	3:A1:1340:A:C3'	2.34	1.06
1:AP:31:A:C4'	3:A1:1340:A:C3'	2.34	1.06
3:A1:1418:A:C6	25:BB:1960:A:P	2.49	1.05
3:A1:1418:A:C2	25:BB:1960:A:P	2.50	1.04
3:A1:1418:A:C5	25:BB:1960:A:P	2.51	1.04
3:A1:1429:A:P	25:BB:1687:G:C1'	2.45	1.04
3:A1:1418:A:C4	25:BB:1960:A:P	2.50	1.04
25:BB:995:C:N4	25:BB:995:C:H5	1.55	1.02
3:A1:1429:A:P	25:BB:1687:G:C4'	2.51	0.99
25:BB:995:C:N4	25:BB:995:C:C5	2.32	0.97
1:AP:31:A:C4'	3:A1:1340:A:O3'	2.12	0.97
3:A1:1418:A:C6	25:BB:1959:G:O3'	2.19	0.96
3:A1:1429:A:P	25:BB:1687:G:C3'	2.54	0.95
1:AP:31:A:H2'	3:A1:1340:A:H3'	1.49	0.93
3:A1:1418:A:C4	25:BB:1959:G:O3'	2.22	0.92
3:A1:1418:A:C5	25:BB:1959:G:O3'	2.22	0.92
3:A1:1429:A:P	25:BB:1687:G:C2'	2.59	0.91
3:A1:1418:A:C2	25:BB:1959:G:O3'	2.23	0.91
25:BB:995:C:C4	25:BB:1159:U:C1'	2.53	0.91
25:BB:995:C:N3	25:BB:1159:U:H1'	1.86	0.90
1:AP:31:A:C2'	3:A1:1340:A:O3'	2.20	0.89
1:AP:31:A:C1'	3:A1:1340:A:O3'	2.20	0.89
1:AP:31:A:C3'	3:A1:1340:A:O3'	2.20	0.89
3:A1:1429:A:O5'	25:BB:1687:G:C1'	2.21	0.88
1:AP:31:A:O4'	3:A1:1340:A:C3'	2.23	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A1:1429:A:O5'	25:BB:1687:G:C2'	2.22	0.86
1:AP:74:C:O2'	1:AP:75:C:H5''	1.75	0.85
3:A1:1429:A:O5'	25:BB:1687:G:C4'	2.24	0.84
3:A1:1429:A:O5'	25:BB:1687:G:C3'	2.27	0.82
1:AP:31:A:C1'	3:A1:1340:A:H3'	2.08	0.81
1:AP:31:A:C3'	3:A1:1340:A:H3'	2.10	0.81
3:A1:1418:A:N1	25:BB:1960:A:P	2.52	0.81
3:A1:1418:A:N3	25:BB:1960:A:P	2.55	0.79
1:AP:75:C:C5	25:BB:2253:G:O6	2.36	0.79
3:A1:1429:A:P	25:BB:1687:G:O4'	2.40	0.79
25:BB:995:C:C4	25:BB:1159:U:N1	2.54	0.75
38:BO:58:VAL:HG22	38:BO:59:GLU:H	1.52	0.74
25:BB:995:C:C4	25:BB:1159:U:O2	2.41	0.73
32:BI:29:VAL:HG22	32:BI:30:TRP:H	1.53	0.73
1:AP:31:A:O4'	3:A1:1340:A:O3'	2.08	0.72
1:AA:73:A:H2'	1:AA:74:C:H5'	1.73	0.71
3:A1:1429:A:HO5'	25:BB:1687:G:C2'	2.05	0.70
3:A1:1418:A:N1	25:BB:1959:G:O3'	2.25	0.69
33:BJ:30:VAL:HG23	33:BJ:31:TYR:H	1.58	0.69
3:A1:1429:A:O5'	25:BB:1687:G:O4'	2.13	0.67
3:A1:1418:A:C4	25:BB:1959:G:C3'	2.81	0.63
30:BG:108:ALA:HB1	30:BG:109:PRO:HD2	1.81	0.63
25:BB:102:U:C5	40:BQ:4:LYS:HE2	2.34	0.63
25:BB:1251:C:H1'	25:BB:1252:G:H3'	1.79	0.62
25:BB:845:A:H2'	25:BB:846:U:H5''	1.82	0.62
1:AA:73:A:C2'	1:AA:74:C:H5'	2.31	0.61
25:BB:571:U:H3	25:BB:2499:C:H5'	1.66	0.60
8:AG:1:ALA:HA	8:AG:4:SER:HB3	1.83	0.60
3:A1:1428:A:O3'	25:BB:1687:G:H3'	2.02	0.60
3:A1:1429:A:P	25:BB:1687:G:H1'	2.36	0.60
25:BB:770:G:H5'	45:BV:10:LEU:HD11	1.83	0.60
25:BB:2495:G:H3'	25:BB:2496:C:H4'	1.84	0.59
3:A1:527:G:H3'	3:A1:528:C:H5''	1.85	0.59
3:A1:507:C:N4	3:A1:509:A:H62	2.00	0.59
25:BB:1927:A:C2	25:BB:1928:A:H1'	2.37	0.58
40:BQ:14:LEU:H	40:BQ:14:LEU:HD22	1.69	0.58
1:AP:31:A:C1'	3:A1:1340:A:H4'	2.34	0.58
24:BA:114:C:H2'	24:BA:115:A:C8	2.39	0.58
17:AR:27:ILE:HD12	17:AR:27:ILE:H	1.67	0.58
3:A1:1225:A:H3'	3:A1:1226:C:H5''	1.86	0.58
25:BB:1813:G:N2	37:BN:51:ARG:HH11	2.02	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:BM:7:LEU:HD23	36:BM:46:ALA:HB1	1.85	0.57
3:A1:1458:G:H5'	14:AN:21:ALA:HB1	1.87	0.57
25:BB:2783:U:H2'	25:BB:2784:U:C6	2.40	0.56
1:AP:31:A:C1'	3:A1:1340:A:C4'	2.83	0.56
1:AP:75:C:C4	25:BB:2253:G:O6	2.58	0.56
1:AP:31:A:C4'	3:A1:1340:A:C2'	2.84	0.56
25:BB:207:A:C2	25:BB:208:C:H1'	2.41	0.56
3:A1:958:A:H62	13:AL:77:ARG:HB3	1.71	0.55
1:AP:31:A:H4'	3:A1:1340:A:C2'	2.36	0.55
3:A1:705:G:C4	3:A1:706:A:H1'	2.42	0.55
25:BB:188:G:C8	25:BB:189:G:C5	2.94	0.55
25:BB:609:A:C5	25:BB:610:C:H1'	2.42	0.55
30:BG:34:ILE:HD13	30:BG:113:ILE:HD11	1.87	0.54
5:AC:31:VAL:HG21	5:AC:66:ALA:HA	1.89	0.54
21:AV:71:VAL:O	21:AV:74:ILE:HG22	2.07	0.54
3:A1:859:G:H4'	4:AB:25:LYS:HE3	1.90	0.54
14:AN:67:HIS:CG	14:AN:68:LYS:H	2.25	0.54
3:A1:1418:A:C5	25:BB:1960:A:OP2	2.60	0.54
3:A1:654:G:C4	3:A1:753:A:C8	2.96	0.54
3:A1:1303:C:H2'	3:A1:1304:G:H5'	1.90	0.54
25:BB:445:C:N4	25:BB:446:G:H22	2.06	0.54
25:BB:995:C:N3	25:BB:1159:U:O2	2.41	0.54
8:AG:17:ASP:HA	8:AG:21:ALA:HB3	1.89	0.53
3:A1:1219:A:C2	3:A1:1220:G:H1'	2.43	0.53
23:AX:38:GLY:H	23:AX:39:PRO:HD2	1.73	0.53
25:BB:1305:C:H2'	25:BB:1306:C:O4'	2.09	0.53
25:BB:2199:A:H5''	25:BB:2199:A:C8	2.43	0.53
24:BA:56:G:N2	24:BA:58:A:H62	2.07	0.53
1:AP:31:A:C1'	3:A1:1341:U:P	2.97	0.53
25:BB:1483:G:H1'	25:BB:1509:A:OP1	2.07	0.53
25:BB:1999:C:H1'	25:BB:2687:U:H1'	1.91	0.53
11:AJ:3:LYS:HA	11:AJ:3:LYS:HE2	1.91	0.53
23:AX:38:GLY:H	23:AX:39:PRO:CD	2.21	0.53
25:BB:296:U:C4	25:BB:297:G:C8	2.97	0.53
25:BB:1569:A:H5'	37:BN:38:LYS:HE3	1.91	0.53
1:AP:31:A:H4'	3:A1:1340:A:H1'	1.91	0.52
3:A1:1429:A:P	25:BB:1687:G:H3'	2.47	0.52
1:AP:55:U:C5	51:B2:74:ALA:HB3	2.44	0.52
3:A1:1164:G:H2'	3:A1:1165:U:O4'	2.09	0.52
3:A1:1418:A:N3	25:BB:1959:G:O3'	2.26	0.52
25:BB:2260:C:H1'	25:BB:2261:C:H5''	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BB:2483:C:C5	29:BF:44:ARG:HB3	2.45	0.52
1:AA:64:A:C2	1:AA:65:G:C4	2.98	0.52
18:AS:35:LEU:HD11	18:AS:136:VAL:HG11	1.90	0.52
24:BA:104:A:C5	24:BA:105:G:H1'	2.44	0.52
25:BB:1068:G:H3'	25:BB:1069:A:H5''	1.92	0.52
29:BF:97:GLN:H	29:BF:98:PRO:CD	2.23	0.52
25:BB:1478:G:H3'	25:BB:1479:G:H5''	1.92	0.52
25:BB:2360:G:H2'	46:BW:27:ASN:HA	1.92	0.52
1:AP:31:A:C3'	3:A1:1340:A:C2'	2.88	0.52
29:BF:6:ARG:HG2	29:BF:6:ARG:HH11	1.75	0.51
48:BY:26:VAL:CG2	48:BY:187:LEU:HB2	2.40	0.51
4:AB:128:LEU:HD13	4:AB:129:THR:H	1.76	0.51
1:AP:31:A:O4'	3:A1:1340:A:C4'	2.57	0.51
25:BB:83:A:H1'	25:BB:84:A:H5''	1.92	0.51
3:A1:1198:G:C2	3:A1:1199:U:C5	2.99	0.51
25:BB:1569:A:C4'	37:BN:38:LYS:HE3	2.41	0.51
25:BB:478:A:C8	25:BB:480:A:C8	2.98	0.51
25:BB:1100:C:H2'	25:BB:1100:C:O2	2.11	0.51
25:BB:1402:U:C5	25:BB:1403:A:H1'	2.46	0.51
3:A1:1065:U:H1'	3:A1:1067:A:N1	2.26	0.51
3:A1:1429:A:C5'	25:BB:1687:G:O4'	2.59	0.51
3:A1:1469:C:H4'	3:A1:1469:C:OP1	2.09	0.51
1:AP:31:A:H4'	3:A1:1340:A:C1'	2.41	0.51
25:BB:978:G:H1	25:BB:986:C:N4	2.09	0.51
40:BQ:47:ARG:HG2	40:BQ:47:ARG:HH21	1.76	0.51
18:AS:24:VAL:HG22	18:AS:25:LYS:H	1.75	0.51
25:BB:1697:G:H3'	25:BB:1698:A:H5'	1.93	0.51
3:A1:1225:A:H3'	3:A1:1226:C:C5'	2.40	0.51
25:BB:2375:G:H2'	25:BB:2376:A:H5''	1.93	0.50
37:BN:70:LYS:HE2	37:BN:95:TYR:CD1	2.46	0.50
1:AP:38:A:N7	1:AP:39:U:C4	2.79	0.50
25:BB:1244:A:OP1	28:BE:17:LYS:HE3	2.11	0.50
25:BB:1954:G:H2'	25:BB:1956:U:C6	2.46	0.50
25:BB:2049:G:H3'	25:BB:2050:C:C5'	2.42	0.50
25:BB:2336:A:H8	25:BB:2336:A:HO2'	1.58	0.50
25:BB:2745:C:H5''	52:B3:145:ALA:HB2	1.93	0.50
25:BB:245:G:H1	25:BB:254:G:N2	2.09	0.50
25:BB:271:G:H1'	25:BB:272:A:C8	2.47	0.50
25:BB:1136:G:H2'	25:BB:1137:G:C8	2.46	0.50
1:AP:75:C:C5	25:BB:2253:G:C6	2.94	0.50
48:BY:172:VAL:HG13	48:BY:173:GLN:H	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A1:587:G:C8	3:A1:587:G:H5''	2.46	0.50
3:A1:1420:U:H2'	3:A1:1421:G:C8	2.47	0.50
37:BN:229:HIS:ND1	37:BN:230:PRO:HD2	2.27	0.50
50:B1:26:ALA:HA	50:B1:29:HIS:HB2	1.92	0.50
30:BG:108:ALA:HB1	30:BG:109:PRO:CD	2.41	0.50
24:BA:79:G:H4'	25:BB:862:G:H4'	1.93	0.50
40:BQ:15:ASN:O	40:BQ:16:THR:HB	2.12	0.50
25:BB:2821:A:H3'	25:BB:2822:G:H5''	1.92	0.49
52:B3:167:VAL:HG22	52:B3:168:VAL:H	1.77	0.49
25:BB:1452:G:C8	25:BB:1457:U:C4	2.99	0.49
3:A1:111:G:H2'	3:A1:112:G:H5'	1.94	0.49
3:A1:1418:A:H3'	3:A1:1419:G:H4'	1.94	0.49
25:BB:672:C:H1'	50:B1:77:ILE:HD11	1.95	0.49
3:A1:769:G:H2'	3:A1:770:C:H5'	1.93	0.49
25:BB:271:G:N2	25:BB:367:G:H1'	2.28	0.49
1:AA:74:C:O2'	1:AA:75:C:H5'	2.13	0.49
25:BB:1661:G:H22	25:BB:2688:G:P	2.35	0.49
2:AM:12:U:H2'	2:AM:13:U:C6	2.48	0.49
3:A1:734:G:H2'	3:A1:735:C:C5	2.47	0.49
3:A1:1429:A:H5'	25:BB:1687:G:C8	2.48	0.49
7:AF:13:HIS:CE1	7:AF:43:LYS:HE3	2.47	0.49
25:BB:902:C:C5	25:BB:903:C:C2	3.01	0.49
25:BB:2683:C:C5	25:BB:2684:U:C2	3.01	0.49
3:A1:402:G:H3'	17:AR:70:GLN:HE22	1.78	0.49
3:A1:667:G:C8	3:A1:667:G:H5''	2.48	0.49
7:AF:77:LYS:HE2	7:AF:80:MET:SD	2.53	0.49
25:BB:1116:G:H5'	29:BF:126:ILE:HD11	1.95	0.48
3:A1:1320:C:C2	13:AL:69:LYS:HE2	2.49	0.48
25:BB:2048:G:H2'	25:BB:2049:G:C5'	2.44	0.48
54:B5:49:GLU:CD	54:B5:50:LYS:H	2.16	0.48
25:BB:2468:A:C2	25:BB:2482:A:N7	2.82	0.48
3:A1:1418:A:C4	25:BB:1959:G:H3'	2.49	0.48
32:BI:4:ILE:HG13	32:BI:5:LYS:H	1.78	0.48
3:A1:1418:A:N3	25:BB:1959:G:C3'	2.75	0.48
7:AF:14:ALA:HB3	7:AF:40:GLU:O	2.13	0.48
25:BB:183:C:N4	25:BB:214:G:H1	2.12	0.48
37:BN:70:LYS:HE2	37:BN:95:TYR:CG	2.49	0.48
48:BY:5:VAL:HG11	48:BY:29:VAL:HG22	1.95	0.48
25:BB:2569:G:N7	25:BB:2570:G:C6	2.81	0.48
38:BO:7:ASP:HA	38:BO:24:VAL:HG12	1.95	0.48
3:A1:383:A:C5	3:A1:384:G:H1'	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BB:1402:U:C6	25:BB:1403:A:H1'	2.49	0.48
25:BB:1595:C:H2'	25:BB:1596:A:C8	2.49	0.48
46:BW:46:LYS:HE3	46:BW:47:ALA:O	2.14	0.48
24:BA:29:A:H4'	24:BA:29:A:OP1	2.14	0.47
25:BB:2645:G:H5''	25:BB:2646:C:C5	2.49	0.47
25:BB:2313:C:H4'	51:B2:87:LYS:HE2	1.96	0.47
1:AA:47:U:H2'	1:AA:50:U:OP1	2.14	0.47
25:BB:2021:C:O5'	43:BT:11:LYS:HE2	2.15	0.47
25:BB:2088:A:H2'	25:BB:2089:C:C6	2.48	0.47
25:BB:2531:A:N7	52:B3:175:LYS:HE2	2.29	0.47
3:A1:1317:C:C5	3:A1:1318:A:H1'	2.49	0.47
6:AD:65:TYR:CE2	6:AD:66:ILE:HD12	2.49	0.47
24:BA:37:C:C5	24:BA:38:C:C2	3.02	0.47
25:BB:1941:C:C5	25:BB:1965:C:H1'	2.50	0.47
1:AA:1:G:H2'	1:AA:2:C:C6	2.50	0.47
3:A1:1526:G:C8	3:A1:1526:G:H5''	2.49	0.47
25:BB:1372:U:H1'	25:BB:2214:C:C2	2.49	0.47
25:BB:2124:G:H3'	25:BB:2125:G:H5''	1.97	0.47
25:BB:2734:A:H3'	25:BB:2735:G:H5''	1.96	0.47
3:A1:765:G:N3	3:A1:765:G:H5''	2.30	0.47
24:BA:30:C:OP1	31:BH:3:LYS:HE2	2.15	0.47
25:BB:478:A:C2	38:BO:42:LYS:HE2	2.50	0.47
3:A1:942:G:H1	3:A1:1342:C:N4	2.12	0.47
3:A1:1428:A:O3'	25:BB:1687:G:C3'	2.60	0.47
9:AH:81:ILE:HG22	9:AH:85:GLY:O	2.15	0.47
25:BB:819:A:H2'	25:BB:820:A:H5'	1.95	0.47
30:BG:29:VAL:HG12	30:BG:29:VAL:O	2.15	0.47
1:AP:31:A:H1'	3:A1:1341:U:P	2.55	0.47
48:BY:110:THR:HB	48:BY:202:ILE:HG23	1.97	0.47
3:A1:78:A:C6	3:A1:79:G:C5	3.03	0.46
25:BB:516:C:H1'	25:BB:1262:A:H4'	1.97	0.46
1:AA:49:C:O2	1:AA:49:C:H3'	2.15	0.46
2:AM:8:U:H2'	2:AM:9:U:H5'	1.96	0.46
3:A1:1072:G:N2	4:AB:105:THR:HG23	2.30	0.46
25:BB:1061:U:C6	25:BB:1070:A:C2	3.03	0.46
25:BB:1319:C:H2'	25:BB:1320:C:C6	2.50	0.46
50:B1:128:ALA:N	50:B1:129:PRO:CD	2.79	0.46
1:AP:16:U:H3'	1:AP:17:U:H5'	1.97	0.46
1:AE:6:U:H2'	1:AE:7:U:C6	2.50	0.46
3:A1:259:G:H1	3:A1:267:C:N4	2.14	0.46
25:BB:60:G:P	36:BM:12:ARG:HH12	2.39	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:BA:9:G:C6	24:BA:112:G:C6	3.03	0.46
25:BB:136:G:H2'	25:BB:137:U:O5'	2.15	0.46
25:BB:1517:G:C6	25:BB:1518:C:H1'	2.51	0.46
25:BB:1580:A:H3'	25:BB:1581:G:C8	2.50	0.46
25:BB:687:C:H1'	25:BB:688:U:C5	2.51	0.46
1:AP:70:C:H2'	1:AP:71:G:C8	2.51	0.46
1:AE:10:G:H2'	1:AE:11:C:C6	2.51	0.46
3:A1:257:G:H1	3:A1:269:C:H42	1.64	0.46
13:AL:52:ASN:N	13:AL:53:GLY:HA2	2.31	0.46
23:AX:89:ARG:HE	23:AX:89:ARG:HA	1.81	0.46
25:BB:324:A:C6	25:BB:338:G:H1'	2.50	0.46
25:BB:1584:U:H3'	25:BB:1585:C:H5'	1.97	0.46
3:A1:198:G:N2	3:A1:220:G:H1'	2.31	0.46
3:A1:958:A:N6	13:AL:77:ARG:HB3	2.31	0.46
25:BB:274:C:C5	25:BB:275:C:C5	3.04	0.46
25:BB:1227:G:N2	25:BB:1228:G:H1'	2.31	0.46
1:AA:36:A:H2'	1:AA:37:G:O4'	2.16	0.46
25:BB:226:A:H2'	25:BB:227:A:C8	2.51	0.46
25:BB:1722:A:C2	25:BB:1723:G:C4	3.04	0.46
1:AP:74:C:H2'	1:AP:75:C:H5'	1.08	0.45
3:A1:64:G:O3'	3:A1:65:A:H3'	2.16	0.45
19:AT:10:VAL:HG11	19:AT:18:VAL:HG12	1.98	0.45
3:A1:1420:U:H2'	3:A1:1421:G:H8	1.81	0.45
3:A1:1483:A:H3'	25:BB:1960:A:O3'	2.16	0.45
14:AN:59:ARG:O	14:AN:63:LYS:HE2	2.16	0.45
25:BB:956:G:H5'	29:BF:81:ARG:HD2	1.97	0.45
25:BB:1894:C:H2'	25:BB:1895:C:C6	2.51	0.45
28:BE:61:LEU:HG	28:BE:62:PRO:HD3	1.97	0.45
25:BB:1238:G:H2'	25:BB:1239:G:H5''	1.99	0.45
25:BB:1980:G:H2'	25:BB:1982:U:C5	2.51	0.45
25:BB:2727:A:N7	25:BB:2728:U:C2	2.85	0.45
25:BB:186:G:C6	25:BB:187:G:C6	3.05	0.45
52:B3:41:GLU:CD	52:B3:54:ARG:HE	2.20	0.45
3:A1:920:U:H2'	3:A1:921:U:H4'	1.98	0.45
14:AN:67:HIS:CG	14:AN:68:LYS:N	2.85	0.45
25:BB:563:A:H5'	33:BJ:40:LYS:HE3	1.98	0.45
25:BB:973:A:H1'	25:BB:1188:U:H2'	1.98	0.45
3:A1:411:A:N6	3:A1:428:G:H1'	2.32	0.45
3:A1:1078:U:H1'	18:AS:133:ILE:HG21	1.97	0.45
15:AO:189:HIS:CD2	15:AO:194:VAL:HA	2.52	0.45
25:BB:687:C:C2	25:BB:688:U:C4	3.04	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BB:2239:G:N3	25:BB:2239:G:H2'	2.30	0.45
32:BI:113:LEU:H	32:BI:113:LEU:HD12	1.81	0.45
24:BA:75:G:H1	24:BA:101:A:N6	2.14	0.45
4:AB:14:HIS:HB2	4:AB:202:ASN:H	1.81	0.45
25:BB:18:U:H4'	33:BJ:29:ARG:CZ	2.47	0.45
25:BB:1670:C:H4'	25:BB:1994:C:H1'	1.98	0.45
3:A1:1275:A:H2'	3:A1:1276:G:H4'	1.98	0.45
34:BK:44:GLY:HA2	34:BK:47:VAL:HG12	1.98	0.45
36:BM:7:LEU:HD23	36:BM:46:ALA:CB	2.47	0.45
50:B1:28:VAL:O	50:B1:32:VAL:HG12	2.16	0.45
1:AA:49:C:C5	1:AA:66:A:C2	3.05	0.45
3:A1:1404:C:H5'	3:A1:1500:A:H61	1.82	0.45
3:A1:1429:A:HO5'	25:BB:1687:G:C3'	2.30	0.45
25:BB:54:G:H5''	45:BV:35:ARG:CZ	2.47	0.45
21:AV:33:VAL:HG23	21:AV:48:PHE:CE2	2.52	0.44
25:BB:1004:U:H3	25:BB:1152:C:N4	2.15	0.44
25:BB:2809:A:H2'	25:BB:2810:A:C8	2.52	0.44
37:BN:92:LEU:HD12	37:BN:92:LEU:N	2.32	0.44
2:AM:4:U:C6	3:A1:1506:U:C6	3.05	0.44
25:BB:896:A:H5''	25:BB:897:C:P	2.58	0.44
3:A1:792:A:C4	3:A1:794:A:C6	3.04	0.44
25:BB:464:U:O4	25:BB:788:A:N7	2.50	0.44
25:BB:1308:A:H62	25:BB:1310:G:N2	2.15	0.44
25:BB:1537:G:H2'	25:BB:1538:G:H4'	2.00	0.44
36:BM:60:THR:C	36:BM:61:LEU:HD12	2.38	0.44
1:AA:72:C:C2	1:AA:73:A:C8	3.06	0.44
3:A1:923:A:H5'	3:A1:924:C:C5	2.52	0.44
25:BB:1007:C:N4	25:BB:1136:G:H1	2.14	0.44
1:AP:74:C:O2'	1:AP:75:C:C5'	2.38	0.44
3:A1:277:C:H2'	3:A1:278:G:H5'	1.99	0.44
25:BB:2571:U:H3'	25:BB:2572:A:H5'	1.98	0.44
36:BM:20:ALA:HB2	36:BM:30:ILE:CD1	2.48	0.44
1:AA:39:U:C5	1:AA:40:C:C5	3.06	0.44
8:AG:89:ARG:HG3	8:AG:89:ARG:HH11	1.83	0.44
25:BB:687:C:H1'	25:BB:688:U:C6	2.52	0.44
25:BB:2601:C:H3'	25:BB:2602:A:H5'	1.98	0.44
29:BF:71:LYS:HE2	29:BF:93:VAL:HG23	1.98	0.44
37:BN:91:ALA:C	37:BN:92:LEU:HD12	2.38	0.44
45:BV:20:ALA:HA	45:BV:23:ALA:HB3	2.00	0.44
25:BB:1657:U:C5	25:BB:1659:G:C6	3.05	0.44
25:BB:2515:C:C5	25:BB:2516:A:C6	3.06	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A1:98:A:H2'	3:A1:99:C:O4'	2.18	0.44
3:A1:1275:A:C5	3:A1:1276:G:H1'	2.53	0.44
3:A1:1446:A:H62	14:AN:18:LYS:HE2	1.83	0.44
25:BB:478:A:N1	38:BO:42:LYS:HE2	2.33	0.44
25:BB:603:A:C2	25:BB:625:G:N3	2.86	0.44
25:BB:608:A:H2'	25:BB:609:A:H5'	2.00	0.44
25:BB:2624:G:O6	25:BB:2625:G:C2	2.70	0.44
51:B2:2:LYS:HE3	51:B2:2:LYS:HA	1.99	0.44
3:A1:785:G:H2'	3:A1:786:G:C8	2.53	0.44
23:AX:89:ARG:HA	23:AX:89:ARG:NE	2.33	0.44
25:BB:84:A:O3'	25:BB:85:G:H4'	2.18	0.44
25:BB:584:C:H42	50:B1:79:ARG:HG2	1.83	0.44
40:BQ:40:SER:HB3	40:BQ:41:HIS:CE1	2.52	0.44
5:AC:90:PRO:HA	5:AC:91:GLY:HA2	1.90	0.43
7:AF:53:ASP:OD1	7:AF:56:ARG:HD2	2.18	0.43
25:BB:835:C:N4	25:BB:941:A:H62	2.15	0.43
25:BB:1676:A:H2'	25:BB:1677:A:O5'	2.17	0.43
25:BB:2787:C:H4'	48:BY:66:GLY:HA2	2.00	0.43
49:BZ:62:LYS:HE2	49:BZ:168:PHE:CD2	2.53	0.43
3:A1:1180:A:C2	3:A1:1184:G:C5	3.06	0.43
24:BA:67:G:C6	24:BA:68:C:C4	3.06	0.43
25:BB:188:G:C8	25:BB:189:G:N7	2.85	0.43
25:BB:1061:U:C6	25:BB:1070:A:N3	2.86	0.43
25:BB:1818:U:C6	37:BN:152:GLN:HG3	2.53	0.43
34:BK:77:PHE:CG	34:BK:78:ARG:N	2.84	0.43
38:BO:58:VAL:CG2	38:BO:59:GLU:H	2.27	0.43
38:BO:84:PHE:CG	38:BO:85:ARG:N	2.82	0.43
2:AM:9:U:H5''	2:AM:10:U:P	2.58	0.43
25:BB:387:U:H1'	25:BB:388:G:C8	2.53	0.43
25:BB:1088:A:H61	54:B5:134:SER:CB	2.31	0.43
25:BB:1293:C:C2	25:BB:1294:U:C5	3.06	0.43
25:BB:1321:A:C8	25:BB:1322:A:H2'	2.52	0.43
25:BB:2624:G:C6	25:BB:2625:G:C4	3.06	0.43
1:AA:1:G:C6	1:AA:73:A:C2	3.06	0.43
1:AP:29:A:C2	1:AP:42:G:C2	3.06	0.43
3:A1:846:G:H1'	3:A1:847:G:C8	2.54	0.43
3:A1:1418:A:N3	25:BB:1959:G:H2'	2.34	0.43
25:BB:1125:G:H3'	25:BB:1126:A:H5''	1.99	0.43
25:BB:2323:G:N2	25:BB:2337:G:H1'	2.32	0.43
25:BB:1968:G:H2'	25:BB:1969:A:H5''	1.99	0.43
3:A1:622:A:C5	3:A1:623:C:H1'	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:AH:9:LYS:HE3	9:AH:13:GLU:CD	2.39	0.43
25:BB:1837:C:N4	25:BB:1904:G:H1	2.16	0.43
25:BB:2289:G:H5''	25:BB:2383:G:H21	1.83	0.43
29:BF:117:PHE:HB2	29:BF:124:LEU:HD11	2.01	0.43
1:AP:16:U:H3'	1:AP:17:U:C5'	2.48	0.43
1:AE:68:U:H2'	1:AE:69:U:H5'	2.00	0.43
3:A1:507:C:H41	3:A1:509:A:H62	1.67	0.43
17:AR:160:LEU:HD12	17:AR:160:LEU:HA	1.85	0.43
25:BB:1268:A:H2'	25:BB:1270:C:C2	2.53	0.43
25:BB:1437:C:H5''	25:BB:1438:U:OP2	2.18	0.43
19:AT:35:LYS:C	19:AT:36:ILE:HD12	2.40	0.43
25:BB:28:A:H3'	25:BB:29:U:H5''	2.01	0.43
25:BB:2153:C:H2'	25:BB:2154:A:H5''	2.01	0.43
31:BH:54:VAL:HA	31:BH:57:ALA:HB3	2.00	0.43
3:A1:176:C:H2'	3:A1:177:G:O4'	2.19	0.43
3:A1:708:C:H2'	3:A1:709:U:C6	2.53	0.43
25:BB:160:A:H2'	25:BB:161:A:C8	2.54	0.43
25:BB:1916:A:H1'	25:BB:1917:U:C6	2.54	0.43
50:B1:127:GLU:CD	50:B1:137:LYS:HZ2	2.22	0.43
3:A1:203:G:H1'	3:A1:465:A:C8	2.54	0.42
25:BB:987:C:H4'	25:BB:988:A:OP1	2.19	0.42
25:BB:1850:G:C6	25:BB:1893:C:C4	3.06	0.42
48:BY:146:ILE:HG13	48:BY:147:GLY:H	1.84	0.42
3:A1:266:G:P	3:A1:268:U:C4	3.12	0.42
3:A1:527:G:C8	6:AD:14:LYS:HB2	2.54	0.42
25:BB:953:G:H3'	25:BB:954:G:H5''	2.02	0.42
25:BB:1338:G:H3'	25:BB:1339:G:H5''	2.00	0.42
25:BB:1785:A:C5	25:BB:1787:A:O4'	2.72	0.42
25:BB:1940:U:C3'	25:BB:1941:C:H5''	2.50	0.42
3:A1:1341:U:C4	3:A1:1342:C:N3	2.86	0.42
24:BA:30:C:H3'	24:BA:31:C:C6	2.54	0.42
25:BB:222:A:C2	25:BB:233:A:H4'	2.54	0.42
25:BB:1528:A:C6	25:BB:1529:G:H1'	2.53	0.42
3:A1:550:G:C2	3:A1:551:U:H1'	2.54	0.42
3:A1:585:G:C2	3:A1:586:C:C6	3.07	0.42
6:AD:73:LEU:HD12	6:AD:73:LEU:HA	1.84	0.42
11:AJ:32:ILE:HG12	11:AJ:33:TYR:H	1.83	0.42
25:BB:1244:A:H2'	25:BB:1245:G:H5'	2.02	0.42
25:BB:1341:G:C2	25:BB:1398:C:H4'	2.55	0.42
25:BB:1447:C:H2'	25:BB:1448:G:C8	2.55	0.42
25:BB:1834:U:H5''	25:BB:1835:G:O5'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BB:2314:A:H1'	51:B2:154:THR:HG21	2.01	0.42
25:BB:2554:U:H4'	25:BB:2555:U:OP1	2.19	0.42
46:BW:61:LEU:HB3	46:BW:62:PRO:CD	2.49	0.42
1:AA:74:C:O2'	1:AA:75:C:C5'	2.68	0.42
6:AD:70:GLY:HA3	6:AD:105:GLY:HA2	2.01	0.42
25:BB:1207:C:P	28:BE:2:ARG:HH12	2.42	0.42
25:BB:2748:A:H2'	25:BB:2749:A:C8	2.55	0.42
34:BK:22:LEU:HG	34:BK:24:LYS:H	1.85	0.42
38:BO:46:LYS:N	38:BO:47:PRO:HD3	2.34	0.42
49:BZ:56:LYS:HD3	49:BZ:178:ASP:HB3	2.01	0.42
53:B4:44:ILE:HD13	53:B4:44:ILE:H	1.84	0.42
3:A1:1418:A:C2	25:BB:1959:G:H2'	2.55	0.42
25:BB:332:A:H5''	25:BB:333:G:OP1	2.19	0.42
25:BB:2193:G:C4	25:BB:2194:U:C6	3.08	0.42
25:BB:2555:U:H3'	25:BB:2556:C:C4'	2.49	0.42
34:BK:58:VAL:O	34:BK:58:VAL:HG13	2.19	0.42
3:A1:455:G:C5	3:A1:478:A:C2	3.07	0.42
23:AX:46:LYS:HA	23:AX:67:ILE:O	2.20	0.42
25:BB:84:A:N3	25:BB:85:G:H1'	2.34	0.42
25:BB:1554:U:C5	25:BB:1626:A:H3'	2.55	0.42
3:A1:1000:A:H2'	3:A1:1001:C:C6	2.54	0.42
3:A1:1418:A:C4	25:BB:1960:A:OP2	2.71	0.42
25:BB:126:A:N7	45:BV:45:SER:HB3	2.34	0.42
25:BB:682:G:C2	25:BB:774:G:H1'	2.54	0.42
25:BB:1246:A:H2'	25:BB:1247:A:C8	2.55	0.42
21:AV:10:LEU:H	21:AV:10:LEU:HD22	1.85	0.42
23:AX:22:THR:HG21	23:AX:72:ARG:HH21	1.84	0.42
25:BB:303:G:C6	25:BB:304:U:C4	3.07	0.42
25:BB:1100:C:O2	25:BB:1100:C:C2'	2.68	0.42
26:BC:63:ILE:HD12	26:BC:72:VAL:HG21	2.02	0.42
34:BK:101:ILE:H	34:BK:101:ILE:HD12	1.84	0.42
4:AB:49:PHE:CE2	4:AB:199:ILE:CG2	3.03	0.42
8:AG:1:ALA:HA	8:AG:4:SER:CB	2.50	0.42
25:BB:1785:A:C8	25:BB:1787:A:C8	3.07	0.42
25:BB:2049:G:H5'	25:BB:2050:C:H5''	2.02	0.42
27:BD:85:VAL:HG13	27:BD:85:VAL:O	2.20	0.42
48:BY:116:LYS:HE3	48:BY:116:LYS:HB2	1.94	0.42
1:AE:66:A:H2'	1:AE:67:A:C8	2.55	0.41
3:A1:1344:C:H2'	3:A1:1345:U:H5''	2.01	0.41
5:AC:41:LEU:HD23	5:AC:41:LEU:C	2.40	0.41
25:BB:1227:G:H2'	25:BB:1228:G:O5'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BB:1528:A:C5	25:BB:1529:G:H1'	2.55	0.41
25:BB:1717:A:H2'	25:BB:1718:G:O4'	2.20	0.41
25:BB:2299:U:H2'	25:BB:2300:C:O4'	2.20	0.41
49:BZ:66:VAL:HG23	49:BZ:84:VAL:HG23	2.02	0.41
3:A1:371:A:H5''	3:A1:372:C:OP2	2.20	0.41
3:A1:843:U:H4'	3:A1:843:U:OP2	2.20	0.41
15:AO:38:VAL:HG12	15:AO:90:VAL:HB	2.02	0.41
25:BB:5:A:C2	25:BB:2899:A:C2	3.08	0.41
25:BB:383:C:H3'	25:BB:384:A:H5'	2.02	0.41
25:BB:803:U:C5	25:BB:804:A:H1'	2.56	0.41
25:BB:1827:U:H5'	25:BB:1828:G:C5	2.55	0.41
25:BB:1994:C:H3'	25:BB:1995:U:C6	2.55	0.41
3:A1:53:A:C2	3:A1:359:G:C5	3.08	0.41
3:A1:544:G:C8	3:A1:544:G:H3'	2.55	0.41
3:A1:923:A:C2	3:A1:1399:C:C2	3.09	0.41
17:AR:86:GLY:HA3	17:AR:196:GLU:HG3	2.02	0.41
24:BA:75:G:N2	26:BC:88:HIS:CD2	2.89	0.41
51:B2:62:GLN:HB3	51:B2:88:VAL:HG13	2.02	0.41
3:A1:13:U:H4'	6:AD:11:ARG:HB2	2.03	0.41
3:A1:1084:G:H4'	3:A1:1084:G:OP1	2.20	0.41
3:A1:1176:A:C8	3:A1:1177:G:C8	3.08	0.41
25:BB:270:A:C2	25:BB:369:U:H4'	2.56	0.41
25:BB:2098:U:C4	25:BB:2099:U:C4	3.08	0.41
29:BF:3:GLN:HB2	29:BF:4:PRO:HD3	2.02	0.41
3:A1:1429:A:OP1	25:BB:1687:G:H2'	2.20	0.41
25:BB:603:A:N1	25:BB:656:G:H1'	2.35	0.41
25:BB:748:G:N7	25:BB:750:A:H3'	2.36	0.41
25:BB:990:A:N6	25:BB:1186:G:C8	2.88	0.41
25:BB:1051:G:H2'	25:BB:1052:C:O4'	2.21	0.41
25:BB:1062:G:H5''	25:BB:1062:G:C8	2.56	0.41
25:BB:1459:G:H1'	25:BB:1460:U:C6	2.56	0.41
25:BB:2496:C:H2'	25:BB:2497:A:C8	2.55	0.41
25:BB:2871:U:H4'	25:BB:2872:A:C6	2.55	0.41
3:A1:379:C:N4	3:A1:384:G:H1	2.18	0.41
25:BB:69:C:H4'	25:BB:74:A:C2	2.56	0.41
25:BB:1906:G:H2'	25:BB:1907:G:C8	2.56	0.41
32:BI:11:GLN:CD	32:BI:11:GLN:H	2.22	0.41
3:A1:1267:C:H6	3:A1:1267:C:HO2'	1.67	0.41
3:A1:1365:G:H3'	3:A1:1366:C:O4'	2.20	0.41
17:AR:150:LYS:HB3	17:AR:155:LYS:HE3	2.03	0.41
25:BB:227:A:H2'	25:BB:2407:A:H1'	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:BB:720:U:H2'	25:BB:721:A:C8	2.56	0.41
25:BB:2048:G:H2'	25:BB:2049:G:H5''	2.02	0.41
25:BB:2710:C:H5'	30:BG:16:HIS:CE1	2.55	0.41
51:B2:121:PHE:CD1	51:B2:121:PHE:N	2.89	0.41
7:AF:83:GLY:N	13:AL:68:HIS:H	2.18	0.41
23:AX:7:ARG:H	23:AX:102:LEU:CD1	2.34	0.41
25:BB:1817:G:H5'	37:BN:86:ARG:HD3	2.03	0.41
25:BB:1900:A:C5	25:BB:1970:A:H2'	2.56	0.41
25:BB:2779:U:O2	25:BB:2779:U:H2'	2.20	0.41
28:BE:57:LEU:H	28:BE:57:LEU:CD1	2.34	0.41
1:AP:31:A:N9	3:A1:1340:A:H4'	2.36	0.41
1:AE:53:G:C6	1:AE:54:U:C4	3.08	0.41
3:A1:1004:A:C8	3:A1:1026:G:C6	3.09	0.41
3:A1:1127:G:H4'	3:A1:1127:G:OP1	2.21	0.41
3:A1:1229:A:H2'	3:A1:1230:C:C2	2.56	0.41
4:AB:27:LYS:HE3	4:AB:27:LYS:HB2	1.93	0.41
25:BB:54:G:H4'	45:BV:35:ARG:HD3	2.03	0.41
25:BB:778:G:H1'	25:BB:779:U:C5	2.56	0.41
25:BB:835:C:H41	25:BB:941:A:H62	1.67	0.41
25:BB:1399:C:H3'	25:BB:1400:U:H5''	2.02	0.41
25:BB:2082:A:C6	25:BB:2083:G:H1'	2.56	0.41
25:BB:2286:G:C6	44:BU:31:GLU:HA	2.56	0.41
25:BB:2316:G:H2'	25:BB:2317:A:C8	2.56	0.41
25:BB:2443:C:H41	25:BB:2446:G:N2	2.19	0.41
25:BB:2830:C:H4'	25:BB:2835:A:H4'	2.03	0.41
32:BI:96:LEU:HB3	32:BI:97:TYR:CD2	2.55	0.41
38:BO:12:VAL:HG22	38:BO:64:ILE:HG21	2.03	0.41
5:AC:22:ILE:H	5:AC:22:ILE:CD1	2.34	0.41
16:AQ:35:GLU:HB2	16:AQ:37:TYR:CE2	2.56	0.41
25:BB:1404:C:H1'	25:BB:1405:U:C6	2.56	0.41
25:BB:2269:G:H3'	25:BB:2270:A:C5'	2.51	0.41
35:BL:75:PHE:CZ	35:BL:104:THR:HG21	2.56	0.41
35:BL:77:ASP:OD2	35:BL:102:HIS:CE1	2.74	0.41
3:A1:182:A:H2'	3:A1:184:G:C8	2.56	0.40
5:AC:30:ILE:HD12	5:AC:30:ILE:N	2.36	0.40
3:A1:496:A:H2'	3:A1:497:G:C8	2.56	0.40
12:AK:38:ILE:HG21	12:AK:58:ILE:HD13	2.03	0.40
25:BB:1881:C:C6	25:BB:1882:U:C5	3.09	0.40
25:BB:2282:G:C5	25:BB:2425:A:C2	3.09	0.40
28:BE:57:LEU:HD12	28:BE:57:LEU:N	2.36	0.40
28:BE:82:LEU:HA	28:BE:83:ALA:HA	1.90	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:BZ:204:TYR:HA	49:BZ:215:VAL:HG23	2.03	0.40
3:A1:1220:G:H2'	3:A1:1220:G:N3	2.36	0.40
25:BB:280:U:C6	25:BB:280:U:H5''	2.56	0.40
25:BB:1217:U:H2'	25:BB:1218:G:C5	2.56	0.40
4:AB:186:VAL:O	4:AB:200:PRO:HA	2.22	0.40
24:BA:9:G:C6	24:BA:10:G:C5	3.10	0.40
32:BI:62:LYS:HE3	32:BI:71:ARG:O	2.21	0.40
3:A1:742:G:P	9:AH:53:ARG:HH21	2.44	0.40
17:AR:35:GLN:O	17:AR:36:ALA:HB2	2.22	0.40
25:BB:1478:G:H1'	25:BB:1560:G:N2	2.35	0.40
25:BB:2495:G:H3'	25:BB:2496:C:C4'	2.50	0.40
55:B6:122:LEU:HD21	55:B6:124:VAL:HG13	2.04	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	AB	216/241 (90%)	173 (80%)	35 (16%)	8 (4%)	3	24
5	AC	115/129 (89%)	85 (74%)	26 (23%)	4 (4%)	3	25
6	AD	121/124 (98%)	71 (59%)	35 (29%)	15 (12%)	0	5
7	AF	112/118 (95%)	76 (68%)	27 (24%)	9 (8%)	1	12
8	AG	94/101 (93%)	71 (76%)	18 (19%)	5 (5%)	2	19
9	AH	86/89 (97%)	67 (78%)	14 (16%)	5 (6%)	1	18
10	AI	80/82 (98%)	56 (70%)	15 (19%)	9 (11%)	0	7
11	AJ	78/84 (93%)	51 (65%)	22 (28%)	5 (6%)	1	16
12	AK	53/75 (71%)	40 (76%)	9 (17%)	4 (8%)	1	13
13	AL	77/92 (84%)	57 (74%)	13 (17%)	7 (9%)	1	11

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
14	AN	83/87 (95%)	68 (82%)	12 (14%)	3 (4%)	3	25
15	AO	204/233 (88%)	157 (77%)	33 (16%)	14 (7%)	1	15
16	AQ	49/71 (69%)	38 (78%)	7 (14%)	4 (8%)	1	12
17	AR	203/206 (98%)	165 (81%)	29 (14%)	9 (4%)	2	22
18	AS	148/159 (93%)	111 (75%)	26 (18%)	11 (7%)	1	14
19	AT	98/135 (73%)	76 (78%)	15 (15%)	7 (7%)	1	14
20	AU	148/179 (83%)	118 (80%)	20 (14%)	10 (7%)	1	15
21	AV	127/130 (98%)	102 (80%)	17 (13%)	8 (6%)	1	17
22	AW	125/130 (96%)	96 (77%)	22 (18%)	7 (6%)	2	19
23	AX	96/103 (93%)	73 (76%)	15 (16%)	8 (8%)	1	12
26	BC	92/94 (98%)	70 (76%)	16 (17%)	6 (6%)	1	16
27	BD	119/123 (97%)	84 (71%)	25 (21%)	10 (8%)	1	12
28	BE	142/144 (99%)	90 (63%)	27 (19%)	25 (18%)	0	3
29	BF	134/136 (98%)	74 (55%)	37 (28%)	23 (17%)	0	3
30	BG	125/127 (98%)	82 (66%)	32 (26%)	11 (9%)	1	11
31	BH	115/117 (98%)	78 (68%)	27 (24%)	10 (9%)	1	11
32	BI	112/115 (97%)	67 (60%)	32 (29%)	13 (12%)	0	6
33	BJ	115/118 (98%)	84 (73%)	19 (16%)	12 (10%)	0	8
34	BK	101/103 (98%)	57 (56%)	32 (32%)	12 (12%)	0	6
35	BL	108/110 (98%)	71 (66%)	18 (17%)	19 (18%)	0	3
36	BM	97/99 (98%)	70 (72%)	19 (20%)	8 (8%)	1	12
37	BN	265/270 (98%)	167 (63%)	49 (18%)	49 (18%)	0	2
38	BO	100/103 (97%)	51 (51%)	31 (31%)	18 (18%)	0	3
39	BP	82/85 (96%)	42 (51%)	26 (32%)	14 (17%)	0	3
40	BQ	61/63 (97%)	44 (72%)	13 (21%)	4 (7%)	1	16
41	BR	56/59 (95%)	39 (70%)	10 (18%)	7 (12%)	0	5
42	BS	68/70 (97%)	47 (69%)	14 (21%)	7 (10%)	0	8
43	BT	54/57 (95%)	37 (68%)	11 (20%)	6 (11%)	0	7
44	BU	52/54 (96%)	35 (67%)	14 (27%)	3 (6%)	1	18
45	BV	44/46 (96%)	33 (75%)	9 (20%)	2 (4%)	2	22
46	BW	62/64 (97%)	31 (50%)	16 (26%)	15 (24%)	0	1

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
47	BX	36/38 (95%)	23 (64%)	6 (17%)	7 (19%)	0	2
48	BY	207/209 (99%)	120 (58%)	54 (26%)	33 (16%)	0	3
49	BZ	211/213 (99%)	169 (80%)	33 (16%)	9 (4%)	2	22
50	B1	199/201 (99%)	117 (59%)	53 (27%)	29 (15%)	0	4
51	B2	176/178 (99%)	125 (71%)	35 (20%)	16 (9%)	1	11
52	B3	174/177 (98%)	145 (83%)	19 (11%)	10 (6%)	1	18
53	B4	147/149 (99%)	109 (74%)	31 (21%)	7 (5%)	2	21
54	B5	139/142 (98%)	116 (84%)	17 (12%)	6 (4%)	2	22
55	B6	138/140 (99%)	78 (56%)	40 (29%)	20 (14%)	0	4
All	All	5844/6172 (95%)	4106 (70%)	1175 (20%)	563 (10%)	1	10

All (563) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
4	AB	21	TYR
4	AB	97	GLY
4	AB	169	HIS
5	AC	118	ASN
6	AD	15	VAL
6	AD	19	ASN
6	AD	34	THR
6	AD	40	THR
6	AD	106	VAL
7	AF	44	ILE
7	AF	65	GLU
10	AI	31	ARG
10	AI	45	GLU
11	AJ	50	ASN
13	AL	35	ARG
15	AO	4	VAL
15	AO	79	LYS
15	AO	159	ALA
16	AQ	39	LYS
17	AR	34	GLU
17	AR	36	ALA
17	AR	91	ALA
17	AR	129	VAL
18	AS	20	VAL
18	AS	27	GLY

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Mol	Chain	Res	Type
18	AS	124	ALA
19	AT	69	GLU
19	AT	92	THR
20	AU	31	VAL
20	AU	34	LYS
20	AU	88	VAL
22	AW	15	ALA
22	AW	42	THR
22	AW	118	ARG
23	AX	46	LYS
26	BC	2	PHE
26	BC	43	ASP
27	BD	17	ARG
27	BD	92	GLU
28	BE	54	GLN
28	BE	59	ARG
28	BE	67	THR
28	BE	75	ALA
28	BE	77	ILE
28	BE	128	THR
29	BF	5	LYS
29	BF	21	ALA
29	BF	27	SER
29	BF	54	THR
29	BF	74	THR
29	BF	97	GLN
29	BF	102	LEU
29	BF	120	ALA
29	BF	122	ALA
29	BF	127	LYS
30	BG	28	LEU
30	BG	88	ALA
30	BG	99	LYS
30	BG	104	ALA
31	BH	20	GLU
31	BH	28	VAL
31	BH	52	SER
31	BH	54	VAL
32	BI	33	GLU
32	BI	94	ALA
32	BI	96	LEU
32	BI	112	ARG

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Mol	Chain	Res	Type
33	BJ	3	VAL
33	BJ	5	ARG
33	BJ	7	VAL
33	BJ	12	ARG
33	BJ	30	VAL
34	BK	24	LYS
34	BK	34	GLU
35	BL	7	HIS
35	BL	20	VAL
35	BL	35	ILE
35	BL	40	ASN
35	BL	80	PRO
35	BL	106	VAL
35	BL	108	SER
36	BM	16	VAL
36	BM	65	GLY
36	BM	73	ARG
36	BM	92	ASN
37	BN	24	HIS
37	BN	27	LYS
37	BN	58	LYS
37	BN	70	LYS
37	BN	120	ASP
37	BN	143	VAL
37	BN	170	TYR
37	BN	176	ARG
37	BN	219	VAL
37	BN	251	THR
37	BN	260	LYS
39	BP	9	THR
39	BP	10	ARG
39	BP	74	LYS
39	BP	77	LYS
40	BQ	16	THR
40	BQ	42	LEU
41	BR	13	ILE
41	BR	51	SER
42	BS	7	PRO
42	BS	50	ASP
43	BT	10	SER
43	BT	29	VAL
43	BT	52	LYS

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Mol	Chain	Res	Type
44	BU	23	THR
44	BU	42	VAL
45	BV	3	ARG
46	BW	15	LYS
46	BW	27	ASN
46	BW	41	ARG
46	BW	61	LEU
46	BW	63	TYR
47	BX	10	LEU
47	BX	34	LYS
47	BX	36	ARG
48	BY	4	LEU
48	BY	14	ILE
48	BY	16	THR
48	BY	39	ASP
48	BY	41	ALA
48	BY	123	LYS
48	BY	127	PHE
48	BY	146	ILE
48	BY	155	VAL
48	BY	191	GLY
49	BZ	197	GLU
49	BZ	208	THR
50	B1	4	VAL
50	B1	17	THR
50	B1	47	LYS
50	B1	62	GLN
50	B1	77	ILE
50	B1	78	TRP
50	B1	104	ALA
50	B1	142	ALA
50	B1	144	GLU
50	B1	165	HIS
51	B2	3	LEU
51	B2	42	ALA
51	B2	71	LYS
51	B2	77	LYS
51	B2	80	GLN
51	B2	136	ILE
51	B2	152	ASP
51	B2	160	LYS
52	B3	172	GLU

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Mol	Chain	Res	Type
54	B5	4	VAL
55	B6	11	VAL
55	B6	39	LYS
55	B6	49	ASP
55	B6	63	ALA
55	B6	64	VAL
55	B6	99	ARG
4	AB	82	ALA
4	AB	151	LYS
5	AC	26	PHE
5	AC	52	ARG
6	AD	22	ALA
6	AD	24	GLU
6	AD	48	LEU
6	AD	109	ARG
6	AD	113	ARG
7	AF	53	ASP
7	AF	106	ARG
8	AG	4	SER
8	AG	46	LYS
8	AG	52	ARG
8	AG	64	ARG
9	AH	11	VAL
9	AH	21	THR
11	AJ	53	GLY
11	AJ	69	THR
12	AK	70	THR
13	AL	24	SER
13	AL	25	GLY
13	AL	37	SER
13	AL	62	THR
13	AL	66	VAL
14	AN	13	SER
14	AN	77	ASN
15	AO	14	VAL
15	AO	61	LYS
15	AO	99	GLN
15	AO	106	ARG
15	AO	128	MET
17	AR	28	ASP
17	AR	130	ASN
18	AS	24	VAL

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Mol	Chain	Res	Type
18	AS	74	ALA
18	AS	107	GLY
19	AT	41	ASP
19	AT	94	HIS
20	AU	35	LYS
20	AU	76	SER
20	AU	83	THR
20	AU	129	ASN
21	AV	16	GLY
21	AV	53	ASP
21	AV	64	TYR
22	AW	54	VAL
22	AW	69	GLY
27	BD	32	TYR
27	BD	76	VAL
28	BE	10	GLU
28	BE	17	LYS
28	BE	22	GLY
28	BE	80	SER
28	BE	93	ASN
28	BE	98	ALA
28	BE	100	ILE
28	BE	117	THR
28	BE	122	VAL
28	BE	125	LEU
28	BE	140	GLY
29	BF	30	SER
29	BF	59	ARG
29	BF	94	ALA
30	BG	7	GLY
30	BG	19	ALA
31	BH	88	LYS
32	BI	60	VAL
32	BI	113	LEU
33	BJ	2	ARG
33	BJ	32	ARG
33	BJ	73	ILE
33	BJ	98	ALA
34	BK	2	TYR
34	BK	54	VAL
34	BK	59	ILE
35	BL	4	ILE

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Mol	Chain	Res	Type
35	BL	5	ALA
35	BL	93	ALA
35	BL	100	THR
35	BL	104	THR
37	BN	14	HIS
37	BN	53	ILE
37	BN	54	GLY
37	BN	111	ALA
37	BN	127	ASN
37	BN	141	HIS
37	BN	182	LYS
37	BN	210	ALA
37	BN	217	PRO
37	BN	221	GLY
37	BN	233	GLY
37	BN	249	VAL
37	BN	252	LYS
37	BN	266	ILE
38	BO	3	LYS
38	BO	6	ARG
38	BO	18	LYS
38	BO	35	VAL
38	BO	59	GLU
38	BO	66	VAL
38	BO	67	SER
38	BO	97	SER
40	BQ	49	ASP
41	BR	14	GLY
41	BR	29	ARG
41	BR	44	ARG
42	BS	27	THR
42	BS	45	THR
43	BT	6	LYS
46	BW	4	LYS
46	BW	5	THR
46	BW	13	PHE
46	BW	20	GLY
46	BW	22	LYS
47	BX	4	ARG
47	BX	17	VAL
48	BY	29	VAL
48	BY	33	ARG

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Mol	Chain	Res	Type
48	BY	99	GLU
48	BY	115	GLY
48	BY	135	GLY
48	BY	147	GLY
48	BY	159	LYS
48	BY	171	THR
49	BZ	50	GLU
49	BZ	161	ASP
50	B1	42	GLY
50	B1	43	THR
50	B1	75	SER
50	B1	91	ASP
50	B1	113	VAL
50	B1	118	LEU
50	B1	119	ILE
50	B1	166	LYS
50	B1	193	VAL
51	B2	24	VAL
51	B2	66	ILE
51	B2	76	PHE
51	B2	132	ARG
52	B3	49	LEU
52	B3	50	THR
53	B4	8	LYS
53	B4	35	LYS
53	B4	77	THR
53	B4	87	GLU
54	B5	6	ALA
54	B5	115	ASP
55	B6	9	GLU
55	B6	15	TRP
55	B6	19	ASP
4	AB	153	MET
6	AD	10	PRO
6	AD	122	LYS
7	AF	23	GLY
8	AG	25	GLU
9	AH	19	ASN
9	AH	48	ASP
10	AI	11	ALA
11	AJ	6	THR
11	AJ	47	ASP

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Mol	Chain	Res	Type
12	AK	45	GLY
12	AK	65	SER
15	AO	9	ILE
15	AO	176	THR
17	AR	4	LEU
17	AR	37	PRO
18	AS	25	LYS
18	AS	70	MET
18	AS	105	ILE
18	AS	127	TYR
20	AU	21	LEU
20	AU	25	PHE
21	AV	19	ALA
21	AV	106	SER
23	AX	34	ALA
23	AX	63	ASP
23	AX	69	THR
27	BD	5	GLN
27	BD	13	ASN
27	BD	46	ALA
28	BE	12	SER
28	BE	13	LYS
28	BE	96	LYS
29	BF	6	ARG
29	BF	9	PHE
29	BF	70	ASP
30	BG	5	LYS
30	BG	94	TYR
31	BH	9	ARG
31	BH	26	LEU
31	BH	62	LEU
32	BI	56	SER
32	BI	103	THR
33	BJ	25	GLY
34	BK	45	GLU
34	BK	48	LYS
34	BK	73	LYS
35	BL	34	ASP
35	BL	70	LYS
35	BL	91	GLY
36	BM	87	LEU
36	BM	94	ASP

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Mol	Chain	Res	Type
37	BN	48	ILE
37	BN	67	LYS
37	BN	107	LYS
37	BN	179	GLU
37	BN	189	ALA
37	BN	224	MET
38	BO	24	VAL
39	BP	4	LYS
39	BP	55	ASP
39	BP	58	LEU
42	BS	34	LEU
42	BS	69	SER
43	BT	8	THR
44	BU	49	LYS
46	BW	23	HIS
46	BW	43	LEU
47	BX	6	SER
48	BY	10	GLY
48	BY	30	GLU
48	BY	46	ARG
48	BY	87	GLY
48	BY	126	ASN
48	BY	136	ASN
48	BY	198	GLY
49	BZ	159	THR
49	BZ	195	LYS
49	BZ	216	LYS
50	B1	171	ASP
50	B1	191	ASP
51	B2	159	ALA
52	B3	174	LYS
55	B6	41	LYS
55	B6	104	ALA
4	AB	63	LYS
4	AB	72	LYS
5	AC	92	ARG
6	AD	105	GLY
7	AF	88	LEU
7	AF	112	ARG
9	AH	86	LEU
10	AI	2	VAL
10	AI	51	ARG

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Mol	Chain	Res	Type
10	AI	69	ASP
12	AK	71	ASP
14	AN	64	GLY
16	AQ	12	ASP
17	AR	177	MET
19	AT	14	GLN
19	AT	44	ARG
19	AT	82	ASP
21	AV	20	ASN
21	AV	66	GLN
22	AW	116	GLY
22	AW	128	LYS
23	AX	99	GLN
27	BD	55	GLY
27	BD	98	ARG
29	BF	8	LYS
29	BF	41	LEU
29	BF	86	LYS
30	BG	11	ASN
30	BG	18	GLN
32	BI	40	GLN
32	BI	79	VAL
32	BI	92	ARG
33	BJ	75	TYR
34	BK	12	HIS
34	BK	31	GLU
35	BL	43	ALA
36	BM	80	TRP
37	BN	4	LYS
37	BN	56	GLY
37	BN	57	HIS
37	BN	109	LEU
37	BN	140	VAL
37	BN	226	PRO
37	BN	230	PRO
39	BP	22	VAL
39	BP	33	GLY
39	BP	61	LYS
41	BR	23	LEU
45	BV	4	THR
46	BW	16	THR
46	BW	32	LEU

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Mol	Chain	Res	Type
48	BY	102	ALA
50	B1	3	LEU
50	B1	22	ASP
50	B1	71	GLY
50	B1	172	ALA
52	B3	6	ALA
52	B3	167	VAL
53	B4	86	ASP
53	B4	89	LYS
55	B6	14	ASP
55	B6	24	THR
55	B6	100	VAL
6	AD	67	GLY
15	AO	133	MET
16	AQ	34	ARG
18	AS	101	GLY
23	AX	38	GLY
23	AX	43	PRO
28	BE	56	PRO
29	BF	3	GLN
30	BG	100	CYS
31	BH	10	ARG
34	BK	40	MET
35	BL	74	ILE
37	BN	33	LEU
37	BN	84	PRO
37	BN	125	PRO
37	BN	169	ALA
37	BN	191	LEU
37	BN	214	GLY
37	BN	268	ARG
38	BO	34	ILE
38	BO	60	LYS
38	BO	64	ILE
39	BP	41	GLY
39	BP	62	ALA
40	BQ	31	GLN
43	BT	15	ARG
46	BW	14	LYS
47	BX	8	LYS
48	BY	34	VAL
48	BY	53	GLY

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Mol	Chain	Res	Type
48	BY	85	ALA
48	BY	93	GLY
49	BZ	137	PRO
50	B1	120	VAL
50	B1	176	ASP
51	B2	38	GLY
51	B2	145	VAL
52	B3	58	ALA
52	B3	99	GLY
54	B5	89	SER
55	B6	47	HIS
7	AF	63	VAL
15	AO	50	SER
26	BC	33	GLY
34	BK	101	ILE
35	BL	69	LEU
35	BL	71	VAL
38	BO	38	ILE
38	BO	49	PRO
38	BO	57	ILE
39	BP	43	LYS
39	BP	47	GLY
41	BR	32	GLY
48	BY	104	VAL
50	B1	173	THR
55	B6	81	ILE
55	B6	127	GLY
7	AF	3	ILE
10	AI	62	GLY
10	AI	64	GLY
29	BF	85	GLY
31	BH	101	GLY
37	BN	11	GLY
38	BO	71	ILE
42	BS	51	VAL
51	B2	39	VAL
54	B5	92	PRO
6	AD	121	PRO
16	AQ	10	PRO
21	AV	43	GLY
23	AX	57	VAL
27	BD	77	ILE

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Mol	Chain	Res	Type
28	BE	55	MET
32	BI	31	VAL
36	BM	62	VAL
48	BY	98	VAL
49	BZ	210	GLY
55	B6	124	VAL
10	AI	71	VAL
28	BE	139	GLY
32	BI	32	VAL
33	BJ	22	GLY
37	BN	227	VAL
38	BO	47	PRO
38	BO	54	PRO
48	BY	172	VAL
50	B1	186	VAL
52	B3	8	VAL
54	B5	51	GLY
15	AO	181	ILE
26	BC	4	ILE
28	BE	23	ILE
28	BE	90	VAL
29	BF	37	GLY
37	BN	178	GLY
37	BN	225	ASN
52	B3	20	GLY
53	B4	21	VAL
55	B6	18	VAL
55	B6	113	PRO
13	AL	61	VAL
15	AO	107	LYS
20	AU	93	VAL
26	BC	32	GLY
26	BC	60	VAL
29	BF	101	VAL

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	AB	180/199 (90%)	167 (93%)	13 (7%)	14	39
5	AC	90/99 (91%)	81 (90%)	9 (10%)	7	26
6	AD	103/104 (99%)	91 (88%)	12 (12%)	5	21
7	AF	92/96 (96%)	82 (89%)	10 (11%)	6	23
8	AG	79/84 (94%)	76 (96%)	3 (4%)	33	57
9	AH	76/77 (99%)	71 (93%)	5 (7%)	16	41
10	AI	65/65 (100%)	61 (94%)	4 (6%)	18	43
11	AJ	74/78 (95%)	69 (93%)	5 (7%)	16	41
12	AK	48/66 (73%)	42 (88%)	6 (12%)	4	19
13	AL	70/79 (89%)	62 (89%)	8 (11%)	5	21
14	AN	65/66 (98%)	58 (89%)	7 (11%)	6	23
15	AO	170/190 (90%)	158 (93%)	12 (7%)	14	39
16	AQ	44/61 (72%)	39 (89%)	5 (11%)	5	21
17	AR	172/173 (99%)	156 (91%)	16 (9%)	9	28
18	AS	113/119 (95%)	97 (86%)	16 (14%)	3	16
19	AT	87/116 (75%)	78 (90%)	9 (10%)	7	25
20	AU	123/147 (84%)	109 (89%)	14 (11%)	5	21
21	AV	104/105 (99%)	98 (94%)	6 (6%)	20	45
22	AW	105/107 (98%)	95 (90%)	10 (10%)	8	27
23	AX	86/90 (96%)	81 (94%)	5 (6%)	20	45
26	BC	78/78 (100%)	76 (97%)	2 (3%)	46	66
27	BD	102/104 (98%)	94 (92%)	8 (8%)	12	36
28	BE	103/103 (100%)	84 (82%)	19 (18%)	1	9
29	BF	109/109 (100%)	94 (86%)	15 (14%)	3	17
30	BG	103/103 (100%)	94 (91%)	9 (9%)	10	31
31	BH	87/87 (100%)	82 (94%)	5 (6%)	20	45
32	BI	99/100 (99%)	95 (96%)	4 (4%)	31	55
33	BJ	89/90 (99%)	79 (89%)	10 (11%)	6	22
34	BK	84/84 (100%)	73 (87%)	11 (13%)	4	18
35	BL	93/93 (100%)	83 (89%)	10 (11%)	6	23
36	BM	83/83 (100%)	71 (86%)	12 (14%)	3	15
37	BN	213/215 (99%)	188 (88%)	25 (12%)	5	21

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
38	BO	83/84 (99%)	74 (89%)	9 (11%)	6	23
39	BP	62/63 (98%)	53 (86%)	9 (14%)	3	15
40	BQ	55/55 (100%)	45 (82%)	10 (18%)	1	10
41	BR	48/49 (98%)	45 (94%)	3 (6%)	18	43
42	BS	62/62 (100%)	58 (94%)	4 (6%)	17	42
43	BT	47/48 (98%)	34 (72%)	13 (28%)	0	3
44	BU	48/48 (100%)	43 (90%)	5 (10%)	7	24
45	BV	38/38 (100%)	32 (84%)	6 (16%)	2	13
46	BW	51/51 (100%)	41 (80%)	10 (20%)	1	8
47	BX	34/34 (100%)	32 (94%)	2 (6%)	19	45
48	BY	164/164 (100%)	150 (92%)	14 (8%)	10	33
49	BZ	187/187 (100%)	172 (92%)	15 (8%)	12	35
50	B1	165/165 (100%)	143 (87%)	22 (13%)	4	18
51	B2	149/149 (100%)	133 (89%)	16 (11%)	6	23
52	B3	137/138 (99%)	123 (90%)	14 (10%)	7	25
53	B4	114/114 (100%)	104 (91%)	10 (9%)	10	31
54	B5	109/110 (99%)	100 (92%)	9 (8%)	11	34
55	B6	114/114 (100%)	102 (90%)	12 (10%)	7	24
All	All	4856/5043 (96%)	4368 (90%)	488 (10%)	11	26

All (488) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
4	AB	31	PHE
4	AB	59	ILE
4	AB	62	ARG
4	AB	85	SER
4	AB	93	HIS
4	AB	94	ARG
4	AB	116	LEU
4	AB	127	LYS
4	AB	128	LEU
4	AB	185	ILE
4	AB	187	ASP
4	AB	202	ASN
4	AB	203	ASP

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Mol	Chain	Res	Type
5	AC	14	GLN
5	AC	16	SER
5	AC	22	ILE
5	AC	30	ILE
5	AC	36	ARG
5	AC	39	ASN
5	AC	68	ARG
5	AC	78	ILE
5	AC	100	ASN
6	AD	11	ARG
6	AD	13	ARG
6	AD	17	LYS
6	AD	29	LYS
6	AD	66	ILE
6	AD	74	GLN
6	AD	79	ILE
6	AD	87	LYS
6	AD	98	ARG
6	AD	110	LYS
6	AD	111	GLN
6	AD	119	LYS
7	AF	7	ASN
7	AF	8	ILE
7	AF	19	THR
7	AF	26	LYS
7	AF	28	ARG
7	AF	48	SER
7	AF	77	LYS
7	AF	82	LEU
7	AF	103	THR
7	AF	111	PRO
8	AG	45	LEU
8	AG	52	ARG
8	AG	89	ARG
9	AH	53	ARG
9	AH	57	ARG
9	AH	72	LYS
9	AH	76	ARG
9	AH	86	LEU
10	AI	3	THR
10	AI	17	TYR
10	AI	63	GLN

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Mol	Chain	Res	Type
10	AI	78	VAL
11	AJ	10	ARG
11	AJ	24	ILE
11	AJ	30	HIS
11	AJ	69	THR
11	AJ	76	ARG
12	AK	24	ASP
12	AK	25	ILE
12	AK	34	GLU
12	AK	49	LYS
12	AK	72	ARG
12	AK	73	HIS
13	AL	5	LYS
13	AL	6	LYS
13	AL	11	ASP
13	AL	18	VAL
13	AL	39	ILE
13	AL	50	VAL
13	AL	72	GLU
13	AL	77	ARG
14	AN	5	SER
14	AN	9	ARG
14	AN	53	MET
14	AN	69	ASN
14	AN	73	ARG
14	AN	78	LEU
14	AN	81	GLN
15	AO	17	TRP
15	AO	35	ASP
15	AO	40	GLN
15	AO	43	THR
15	AO	65	VAL
15	AO	106	ARG
15	AO	107	LYS
15	AO	133	MET
15	AO	155	ARG
15	AO	156	LEU
15	AO	187	GLU
15	AO	198	LYS
16	AQ	3	ILE
16	AQ	12	ASP
16	AQ	32	ARG

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Mol	Chain	Res	Type
16	AQ	39	LYS
16	AQ	43	GLU
17	AR	3	TYR
17	AR	4	LEU
17	AR	13	ARG
17	AR	14	GLU
17	AR	32	LYS
17	AR	47	LEU
17	AR	69	ARG
17	AR	80	ARG
17	AR	89	LEU
17	AR	103	ARG
17	AR	109	THR
17	AR	115	GLN
17	AR	119	HIS
17	AR	162	GLU
17	AR	177	MET
17	AR	196	GLU
18	AS	14	LEU
18	AS	42	ASN
18	AS	47	PHE
18	AS	53	ARG
18	AS	65	LYS
18	AS	72	ASN
18	AS	81	GLN
18	AS	88	HIS
18	AS	89	THR
18	AS	92	ARG
18	AS	110	MET
18	AS	130	THR
18	AS	132	PRO
18	AS	144	GLU
18	AS	145	ASN
18	AS	156	ARG
19	AT	1	MET
19	AT	15	SER
19	AT	17	GLN
19	AT	33	GLU
19	AT	42	TRP
19	AT	46	GLN
19	AT	68	GLN
19	AT	71	ILE

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Mol	Chain	Res	Type
19	AT	86	ARG
20	AU	4	ARG
20	AU	14	ASP
20	AU	55	LYS
20	AU	70	PRO
20	AU	71	THR
20	AU	74	VAL
20	AU	75	LYS
20	AU	92	PRO
20	AU	95	ARG
20	AU	98	LEU
20	AU	108	ARG
20	AU	110	ARG
20	AU	112	ASP
20	AU	145	GLU
21	AV	3	GLN
21	AV	20	ASN
21	AV	75	GLN
21	AV	79	ARG
21	AV	89	ASP
21	AV	113	ARG
22	AW	24	ASN
22	AW	40	ARG
22	AW	62	LEU
22	AW	66	VAL
22	AW	71	ILE
22	AW	83	THR
22	AW	93	LEU
22	AW	105	ARG
22	AW	118	ARG
22	AW	128	LYS
23	AX	53	ILE
23	AX	57	VAL
23	AX	71	LEU
23	AX	83	THR
23	AX	89	ARG
26	BC	7	GLU
26	BC	76	ASP
27	BD	20	MET
27	BD	28	SER
27	BD	30	ARG
27	BD	32	TYR

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Mol	Chain	Res	Type
27	BD	47	ILE
27	BD	52	VAL
27	BD	105	ARG
27	BD	112	PHE
28	BE	17	LYS
28	BE	18	ARG
28	BE	35	HIS
28	BE	36	LYS
28	BE	42	SER
28	BE	46	VAL
28	BE	47	ARG
28	BE	50	PHE
28	BE	54	GLN
28	BE	56	PRO
28	BE	90	VAL
28	BE	101	ILE
28	BE	106	GLU
28	BE	109	LYS
28	BE	112	LEU
28	BE	126	ARG
28	BE	135	ILE
28	BE	141	LYS
28	BE	144	GLU
29	BF	6	ARG
29	BF	18	ARG
29	BF	22	GLN
29	BF	34	LYS
29	BF	44	ARG
29	BF	68	PHE
29	BF	69	PRO
29	BF	76	LYS
29	BF	82	MET
29	BF	90	GLU
29	BF	95	LEU
29	BF	97	GLN
29	BF	101	VAL
29	BF	102	LEU
29	BF	136	MET
30	BG	4	ARG
30	BG	32	GLU
30	BG	52	ILE
30	BG	63	ARG

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Mol	Chain	Res	Type
30	BG	80	PHE
30	BG	89	SER
30	BG	99	LYS
30	BG	115	LEU
30	BG	121	LYS
31	BH	9	ARG
31	BH	20	GLU
31	BH	30	ARG
31	BH	54	VAL
31	BH	84	GLU
32	BI	19	PHE
32	BI	99	LEU
32	BI	110	LYS
32	BI	111	GLU
33	BJ	13	HIS
33	BJ	16	ILE
33	BJ	21	LYS
33	BJ	23	TYR
33	BJ	40	LYS
33	BJ	59	LEU
33	BJ	63	ARG
33	BJ	76	SER
33	BJ	90	ASP
33	BJ	91	ARG
34	BK	23	GLU
34	BK	27	ILE
34	BK	33	VAL
34	BK	39	LEU
34	BK	41	ILE
34	BK	46	GLU
34	BK	80	ARG
34	BK	84	ARG
34	BK	90	ARG
34	BK	97	LYS
34	BK	98	ILE
35	BL	4	ILE
35	BL	40	ASN
35	BL	59	GLU
35	BL	67	ASP
35	BL	78	GLU
35	BL	84	ARG
35	BL	85	ILE

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Mol	Chain	Res	Type
35	BL	90	LYS
35	BL	98	LYS
35	BL	108	SER
36	BM	2	ILE
36	BM	5	GLU
36	BM	7	LEU
36	BM	12	ARG
36	BM	15	HIS
36	BM	42	GLU
36	BM	67	VAL
36	BM	68	LYS
36	BM	69	ARG
36	BM	73	ARG
36	BM	80	TRP
36	BM	87	LEU
37	BN	4	LYS
37	BN	8	THR
37	BN	13	ARG
37	BN	42	ARG
37	BN	59	GLN
37	BN	61	TYR
37	BN	66	PHE
37	BN	68	ARG
37	BN	79	ARG
37	BN	82	TYR
37	BN	94	LEU
37	BN	101	ARG
37	BN	107	LYS
37	BN	123	ILE
37	BN	141	HIS
37	BN	155	ARG
37	BN	159	THR
37	BN	175	LEU
37	BN	181	ARG
37	BN	231	HIS
37	BN	237	ARG
37	BN	239	PHE
37	BN	250	GLN
37	BN	262	THR
37	BN	268	ARG
38	BO	5	ARG
38	BO	23	LYS

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Mol	Chain	Res	Type
38	BO	25	LYS
38	BO	34	ILE
38	BO	38	ILE
38	BO	44	HIS
38	BO	73	ASN
38	BO	101	THR
38	BO	102	ILE
39	BP	2	HIS
39	BP	10	ARG
39	BP	24	ARG
39	BP	30	VAL
39	BP	36	ILE
39	BP	45	HIS
39	BP	59	PHE
39	BP	75	ASN
39	BP	84	GLU
40	BQ	14	LEU
40	BQ	26	PHE
40	BQ	27	ASN
40	BQ	30	MET
40	BQ	36	GLN
40	BQ	38	GLN
40	BQ	39	GLN
40	BQ	44	LYS
40	BQ	47	ARG
40	BQ	48	ARG
41	BR	17	PRO
41	BR	23	LEU
41	BR	29	ARG
42	BS	30	HIS
42	BS	47	LYS
42	BS	59	ARG
42	BS	70	LYS
43	BT	3	GLN
43	BT	4	GLN
43	BT	5	ASN
43	BT	8	THR
43	BT	9	ARG
43	BT	15	ARG
43	BT	16	ARG
43	BT	31	LYS
43	BT	36	LYS

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Mol	Chain	Res	Type
43	BT	37	HIS
43	BT	42	ILE
43	BT	48	TYR
43	BT	51	ARG
44	BU	5	ARG
44	BU	38	PHE
44	BU	41	VAL
44	BU	48	TYR
44	BU	50	GLU
45	BV	2	LYS
45	BV	4	THR
45	BV	10	LEU
45	BV	25	LYS
45	BV	31	LEU
45	BV	35	ARG
46	BW	1	PRO
46	BW	4	LYS
46	BW	11	LYS
46	BW	12	ARG
46	BW	23	HIS
46	BW	29	ARG
46	BW	30	HIS
46	BW	33	THR
46	BW	43	LEU
46	BW	48	MET
47	BX	1	MET
47	BX	23	ILE
48	BY	13	ARG
48	BY	16	THR
48	BY	36	GLN
48	BY	38	LYS
48	BY	62	LYS
48	BY	101	PHE
48	BY	118	PHE
48	BY	123	LYS
48	BY	125	TRP
48	BY	131	ASP
48	BY	151	THR
48	BY	165	MET
48	BY	170	VAL
48	BY	184	ARG
49	BZ	4	ASP

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Mol	Chain	Res	Type
49	BZ	24	ARG
49	BZ	28	GLN
49	BZ	39	ILE
49	BZ	54	LEU
49	BZ	55	PRO
49	BZ	69	SER
49	BZ	99	PRO
49	BZ	106	GLN
49	BZ	123	ILE
49	BZ	131	ARG
49	BZ	161	ASP
49	BZ	191	GLU
49	BZ	199	ASN
49	BZ	217	ARG
50	B1	4	VAL
50	B1	23	PHE
50	B1	29	HIS
50	B1	35	TYR
50	B1	51	GLU
50	B1	52	VAL
50	B1	57	LYS
50	B1	69	ARG
50	B1	74	LYS
50	B1	80	SER
50	B1	109	LEU
50	B1	116	ASP
50	B1	117	ARG
50	B1	130	LYS
50	B1	132	LYS
50	B1	143	LEU
50	B1	150	THR
50	B1	152	GLU
50	B1	153	LEU
50	B1	162	ARG
50	B1	177	PRO
50	B1	191	ASP
51	B2	10	GLU
51	B2	11	VAL
51	B2	63	LYS
51	B2	77	LYS
51	B2	80	GLN
51	B2	99	PHE

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Mol	Chain	Res	Type
51	B2	105	ILE
51	B2	108	PRO
51	B2	132	ARG
51	B2	136	ILE
51	B2	142	TYR
51	B2	146	ASP
51	B2	148	VAL
51	B2	158	THR
51	B2	173	ASP
51	B2	177	ARG
52	B3	21	GLN
52	B3	23	ILE
52	B3	32	LEU
52	B3	34	ARG
52	B3	44	HIS
52	B3	54	ARG
52	B3	57	TYR
52	B3	59	ASP
52	B3	68	ARG
52	B3	88	LEU
52	B3	130	ILE
52	B3	150	TYR
52	B3	156	TYR
52	B3	167	VAL
53	B4	5	LEU
53	B4	7	ASP
53	B4	11	ASN
53	B4	17	ASP
53	B4	25	TYR
53	B4	37	VAL
53	B4	44	ILE
53	B4	60	GLU
53	B4	91	PHE
53	B4	133	GLN
54	B5	49	GLU
54	B5	54	ILE
54	B5	57	VAL
54	B5	63	ASP
54	B5	64	ARG
54	B5	92	PRO
54	B5	117	THR
54	B5	121	ILE

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Mol	Chain	Res	Type
54	B5	141	ASP
55	B6	16	TYR
55	B6	19	ASP
55	B6	28	LEU
55	B6	35	ARG
55	B6	45	THR
55	B6	60	ASP
55	B6	71	ASP
55	B6	81	ILE
55	B6	99	ARG
55	B6	102	GLU
55	B6	116	ARG
55	B6	122	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (18) such sidechains are listed below:

Mol	Chain	Res	Type
4	AB	202	ASN
7	AF	99	GLN
15	AO	189	HIS
17	AR	70	GLN
26	BC	49	ASN
26	BC	88	HIS
27	BD	90	ASN
28	BE	99	ASN
30	BG	16	HIS
30	BG	73	ASN
31	BH	34	HIS
34	BK	66	HIS
34	BK	87	GLN
37	BN	114	GLN
37	BN	162	GLN
40	BQ	41	HIS
43	BT	3	GLN
55	B6	76	HIS

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	75/76 (98%)	21 (28%)	10 (13%)

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AE	75/76 (98%)	12 (16%)	5 (6%)
1	AP	74/76 (97%)	10 (13%)	9 (12%)
2	AM	20/20 (100%)	10 (50%)	8 (40%)
24	BA	116/117 (99%)	36 (31%)	18 (15%)
25	BB	2901/2903 (99%)	1500 (51%)	494 (17%)
3	A1	1529/1530 (99%)	730 (47%)	270 (17%)
All	All	4790/4798 (99%)	2319 (48%)	814 (16%)

All (2319) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	2	C
1	AA	3	G
1	AA	10	G
1	AA	16	U
1	AA	17	U
1	AA	18	G
1	AA	21	A
1	AA	23	A
1	AA	32	C
1	AA	33	U
1	AA	34	G
1	AA	39	U
1	AA	44	A
1	AA	47	U
1	AA	48	C
1	AA	54	U
1	AA	58	A
1	AA	69	U
1	AA	71	G
1	AA	74	C
1	AA	75	C
1	AP	8	U
1	AP	16	U
1	AP	17	U
1	AP	19	G
1	AP	21	A
1	AP	31	A
1	AP	32	C
1	AP	37	G
1	AP	59	U
1	AP	75	C

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Mol	Chain	Res	Type
1	AE	13	C
1	AE	14	A
1	AE	15	G
1	AE	17	U
1	AE	18	G
1	AE	19	G
1	AE	21	A
1	AE	34	G
1	AE	36	A
1	AE	46	G
1	AE	47	U
1	AE	76	A
2	AM	2	U
2	AM	3	U
2	AM	4	U
2	AM	5	U
2	AM	6	U
2	AM	7	U
2	AM	10	U
2	AM	13	U
2	AM	14	U
2	AM	15	U
3	A1	6	G
3	A1	7	A
3	A1	8	A
3	A1	9	G
3	A1	10	A
3	A1	11	G
3	A1	12	U
3	A1	14	U
3	A1	15	G
3	A1	16	A
3	A1	20	U
3	A1	21	G
3	A1	22	G
3	A1	25	C
3	A1	26	A
3	A1	27	G
3	A1	29	U
3	A1	30	U
3	A1	31	G
3	A1	32	A

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Mol	Chain	Res	Type
3	A1	36	C
3	A1	39	G
3	A1	41	G
3	A1	45	G
3	A1	46	G
3	A1	47	C
3	A1	48	C
3	A1	50	A
3	A1	51	A
3	A1	53	A
3	A1	57	G
3	A1	59	A
3	A1	60	A
3	A1	61	G
3	A1	64	G
3	A1	65	A
3	A1	66	A
3	A1	67	C
3	A1	69	G
3	A1	70	U
3	A1	83	C
3	A1	84	U
3	A1	85	U
3	A1	86	G
3	A1	87	C
3	A1	89	U
3	A1	93	U
3	A1	94	G
3	A1	95	C
3	A1	96	U
3	A1	100	G
3	A1	105	G
3	A1	106	C
3	A1	107	G
3	A1	108	G
3	A1	109	A
3	A1	110	C
3	A1	112	G
3	A1	114	U
3	A1	115	G
3	A1	116	A
3	A1	118	U

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Mol	Chain	Res	Type
3	A1	119	A
3	A1	120	A
3	A1	121	U
3	A1	122	G
3	A1	123	U
3	A1	124	C
3	A1	125	U
3	A1	129	A
3	A1	131	A
3	A1	142	G
3	A1	143	A
3	A1	149	A
3	A1	150	U
3	A1	159	G
3	A1	160	A
3	A1	163	C
3	A1	168	G
3	A1	169	C
3	A1	170	U
3	A1	171	A
3	A1	172	A
3	A1	176	C
3	A1	182	A
3	A1	183	C
3	A1	184	G
3	A1	189	A
3	A1	191	G
3	A1	198	G
3	A1	209	U
3	A1	210	C
3	A1	211	G
3	A1	214	C
3	A1	220	G
3	A1	224	U
3	A1	225	C
3	A1	226	G
3	A1	227	G
3	A1	229	U
3	A1	230	G
3	A1	238	A
3	A1	241	G
3	A1	242	G

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Mol	Chain	Res	Type
3	A1	244	U
3	A1	245	U
3	A1	246	A
3	A1	247	G
3	A1	250	A
3	A1	251	G
3	A1	254	G
3	A1	257	G
3	A1	259	G
3	A1	261	U
3	A1	264	C
3	A1	265	G
3	A1	266	G
3	A1	267	C
3	A1	268	U
3	A1	273	U
3	A1	277	C
3	A1	280	C
3	A1	281	G
3	A1	287	U
3	A1	289	G
3	A1	290	C
3	A1	291	U
3	A1	295	C
3	A1	297	G
3	A1	298	A
3	A1	299	G
3	A1	300	A
3	A1	301	G
3	A1	306	A
3	A1	307	C
3	A1	309	A
3	A1	311	C
3	A1	312	C
3	A1	313	A
3	A1	315	A
3	A1	316	C
3	A1	317	U
3	A1	319	G
3	A1	321	A
3	A1	325	A
3	A1	327	A

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Mol	Chain	Res	Type
3	A1	328	C
3	A1	329	A
3	A1	330	C
3	A1	331	G
3	A1	332	G
3	A1	338	A
3	A1	339	C
3	A1	344	A
3	A1	345	C
3	A1	352	C
3	A1	353	A
3	A1	354	G
3	A1	356	A
3	A1	358	U
3	A1	359	G
3	A1	364	A
3	A1	365	U
3	A1	366	A
3	A1	367	U
3	A1	368	U
3	A1	369	G
3	A1	372	C
3	A1	373	A
3	A1	374	A
3	A1	377	G
3	A1	379	C
3	A1	380	G
3	A1	381	C
3	A1	382	A
3	A1	396	C
3	A1	397	A
3	A1	400	C
3	A1	401	C
3	A1	406	G
3	A1	412	A
3	A1	414	A
3	A1	415	A
3	A1	422	C
3	A1	423	G
3	A1	424	G
3	A1	425	G
3	A1	426	U

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Mol	Chain	Res	Type
3	A1	427	U
3	A1	428	G
3	A1	429	U
3	A1	430	A
3	A1	432	A
3	A1	433	G
3	A1	435	A
3	A1	438	U
3	A1	439	U
3	A1	440	C
3	A1	441	A
3	A1	442	G
3	A1	446	G
3	A1	449	G
3	A1	451	A
3	A1	454	G
3	A1	461	A
3	A1	462	G
3	A1	463	U
3	A1	465	A
3	A1	466	A
3	A1	467	U
3	A1	468	A
3	A1	469	C
3	A1	483	C
3	A1	485	U
3	A1	493	A
3	A1	498	A
3	A1	499	A
3	A1	500	G
3	A1	501	C
3	A1	503	C
3	A1	504	C
3	A1	505	G
3	A1	506	G
3	A1	512	U
3	A1	518	C
3	A1	519	C
3	A1	520	A
3	A1	521	G
3	A1	524	G
3	A1	528	C

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Mol	Chain	Res	Type
3	A1	529	G
3	A1	531	U
3	A1	532	A
3	A1	535	A
3	A1	536	C
3	A1	542	G
3	A1	547	A
3	A1	550	G
3	A1	551	U
3	A1	554	A
3	A1	555	U
3	A1	558	G
3	A1	559	A
3	A1	560	A
3	A1	561	U
3	A1	562	U
3	A1	564	C
3	A1	565	U
3	A1	567	G
3	A1	569	C
3	A1	570	G
3	A1	571	U
3	A1	572	A
3	A1	573	A
3	A1	574	A
3	A1	575	G
3	A1	576	C
3	A1	577	G
3	A1	578	C
3	A1	580	C
3	A1	581	G
3	A1	582	C
3	A1	588	G
3	A1	593	U
3	A1	596	A
3	A1	598	U
3	A1	607	A
3	A1	609	A
3	A1	610	U
3	A1	619	U
3	A1	622	A
3	A1	623	C

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Mol	Chain	Res	Type
3	A1	625	U
3	A1	630	A
3	A1	631	C
3	A1	632	U
3	A1	633	G
3	A1	639	G
3	A1	642	A
3	A1	650	G
3	A1	651	C
3	A1	652	U
3	A1	653	U
3	A1	654	G
3	A1	655	A
3	A1	666	G
3	A1	667	G
3	A1	676	A
3	A1	681	A
3	A1	683	G
3	A1	687	A
3	A1	688	G
3	A1	695	A
3	A1	697	U
3	A1	699	C
3	A1	700	G
3	A1	701	U
3	A1	702	A
3	A1	703	G
3	A1	705	G
3	A1	706	A
3	A1	715	A
3	A1	716	A
3	A1	717	U
3	A1	719	C
3	A1	720	C
3	A1	721	G
3	A1	723	U
3	A1	724	G
3	A1	726	C
3	A1	727	G
3	A1	729	A
3	A1	731	G
3	A1	732	C

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Mol	Chain	Res	Type
3	A1	733	G
3	A1	734	G
3	A1	735	C
3	A1	736	C
3	A1	741	G
3	A1	742	G
3	A1	743	A
3	A1	744	C
3	A1	747	A
3	A1	748	G
3	A1	752	G
3	A1	753	A
3	A1	755	G
3	A1	756	C
3	A1	763	G
3	A1	771	G
3	A1	774	G
3	A1	777	A
3	A1	781	A
3	A1	782	A
3	A1	783	C
3	A1	784	A
3	A1	785	G
3	A1	788	U
3	A1	789	U
3	A1	790	A
3	A1	791	G
3	A1	792	A
3	A1	793	U
3	A1	795	C
3	A1	796	C
3	A1	797	C
3	A1	801	U
3	A1	803	G
3	A1	805	C
3	A1	808	C
3	A1	811	C
3	A1	812	G
3	A1	813	U
3	A1	815	A
3	A1	817	C
3	A1	818	G

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Mol	Chain	Res	Type
3	A1	819	A
3	A1	820	U
3	A1	821	G
3	A1	822	U
3	A1	826	C
3	A1	827	U
3	A1	829	G
3	A1	830	G
3	A1	834	U
3	A1	841	C
3	A1	843	U
3	A1	844	G
3	A1	845	A
3	A1	847	G
3	A1	849	G
3	A1	855	U
3	A1	857	C
3	A1	858	G
3	A1	861	G
3	A1	862	C
3	A1	863	U
3	A1	865	A
3	A1	867	G
3	A1	868	C
3	A1	869	G
3	A1	870	U
3	A1	871	U
3	A1	872	A
3	A1	873	A
3	A1	874	G
3	A1	875	U
3	A1	876	C
3	A1	879	C
3	A1	881	G
3	A1	882	C
3	A1	883	C
3	A1	885	G
3	A1	886	G
3	A1	887	G
3	A1	889	A
3	A1	890	G
3	A1	891	U

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Mol	Chain	Res	Type
3	A1	892	A
3	A1	893	C
3	A1	894	G
3	A1	900	A
3	A1	901	A
3	A1	906	A
3	A1	907	A
3	A1	910	C
3	A1	911	U
3	A1	914	A
3	A1	915	A
3	A1	916	U
3	A1	918	A
3	A1	920	U
3	A1	921	U
3	A1	922	G
3	A1	923	A
3	A1	925	G
3	A1	926	G
3	A1	927	G
3	A1	931	C
3	A1	934	C
3	A1	936	C
3	A1	938	A
3	A1	939	G
3	A1	944	G
3	A1	945	G
3	A1	953	G
3	A1	957	U
3	A1	960	U
3	A1	961	U
3	A1	962	C
3	A1	963	G
3	A1	964	A
3	A1	965	U
3	A1	966	G
3	A1	967	C
3	A1	968	A
3	A1	969	A
3	A1	970	C
3	A1	972	C
3	A1	973	G

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Mol	Chain	Res	Type
3	A1	974	A
3	A1	975	A
3	A1	976	G
3	A1	977	A
3	A1	978	A
3	A1	979	C
3	A1	980	C
3	A1	981	U
3	A1	982	U
3	A1	984	C
3	A1	989	U
3	A1	991	U
3	A1	992	U
3	A1	993	G
3	A1	994	A
3	A1	997	U
3	A1	998	C
3	A1	999	C
3	A1	1000	A
3	A1	1004	A
3	A1	1008	U
3	A1	1016	A
3	A1	1017	U
3	A1	1020	G
3	A1	1026	G
3	A1	1027	C
3	A1	1028	C
3	A1	1029	U
3	A1	1030	U
3	A1	1031	C
3	A1	1034	G
3	A1	1037	C
3	A1	1045	C
3	A1	1049	U
3	A1	1050	G
3	A1	1051	C
3	A1	1052	U
3	A1	1053	G
3	A1	1054	C
3	A1	1055	A
3	A1	1057	G
3	A1	1058	G

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Mol	Chain	Res	Type
3	A1	1063	C
3	A1	1064	G
3	A1	1065	U
3	A1	1066	C
3	A1	1067	A
3	A1	1068	G
3	A1	1072	G
3	A1	1077	G
3	A1	1078	U
3	A1	1081	A
3	A1	1082	A
3	A1	1084	G
3	A1	1085	U
3	A1	1094	G
3	A1	1095	U
3	A1	1097	C
3	A1	1101	A
3	A1	1103	C
3	A1	1104	G
3	A1	1106	G
3	A1	1109	C
3	A1	1110	A
3	A1	1111	A
3	A1	1116	U
3	A1	1117	A
3	A1	1123	U
3	A1	1124	G
3	A1	1125	U
3	A1	1126	U
3	A1	1127	G
3	A1	1128	C
3	A1	1129	C
3	A1	1130	A
3	A1	1131	G
3	A1	1133	G
3	A1	1135	U
3	A1	1137	C
3	A1	1138	G
3	A1	1139	G
3	A1	1140	C
3	A1	1141	C
3	A1	1142	G

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Mol	Chain	Res	Type
3	A1	1143	G
3	A1	1146	A
3	A1	1152	A
3	A1	1154	G
3	A1	1157	A
3	A1	1158	C
3	A1	1159	U
3	A1	1160	G
3	A1	1162	C
3	A1	1168	U
3	A1	1169	A
3	A1	1170	A
3	A1	1171	A
3	A1	1175	G
3	A1	1177	G
3	A1	1182	G
3	A1	1183	U
3	A1	1189	U
3	A1	1191	A
3	A1	1193	G
3	A1	1195	C
3	A1	1196	A
3	A1	1197	A
3	A1	1198	G
3	A1	1199	U
3	A1	1201	A
3	A1	1202	U
3	A1	1203	C
3	A1	1204	A
3	A1	1212	U
3	A1	1214	C
3	A1	1216	A
3	A1	1217	C
3	A1	1218	C
3	A1	1220	G
3	A1	1221	G
3	A1	1223	C
3	A1	1224	U
3	A1	1225	A
3	A1	1226	C
3	A1	1227	A
3	A1	1228	C

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Mol	Chain	Res	Type
3	A1	1229	A
3	A1	1232	U
3	A1	1233	G
3	A1	1235	U
3	A1	1238	A
3	A1	1239	A
3	A1	1240	U
3	A1	1248	A
3	A1	1250	A
3	A1	1251	A
3	A1	1253	G
3	A1	1256	A
3	A1	1257	A
3	A1	1258	G
3	A1	1263	C
3	A1	1268	G
3	A1	1270	G
3	A1	1276	G
3	A1	1279	G
3	A1	1280	A
3	A1	1281	C
3	A1	1283	U
3	A1	1285	A
3	A1	1286	U
3	A1	1287	A
3	A1	1290	G
3	A1	1292	G
3	A1	1297	G
3	A1	1298	U
3	A1	1300	G
3	A1	1301	U
3	A1	1302	C
3	A1	1303	C
3	A1	1309	G
3	A1	1310	G
3	A1	1318	A
3	A1	1319	A
3	A1	1320	C
3	A1	1322	C
3	A1	1323	G
3	A1	1330	U
3	A1	1334	G

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Mol	Chain	Res	Type
3	A1	1335	U
3	A1	1336	C
3	A1	1337	G
3	A1	1338	G
3	A1	1340	A
3	A1	1341	U
3	A1	1342	C
3	A1	1343	G
3	A1	1344	C
3	A1	1345	U
3	A1	1346	A
3	A1	1347	G
3	A1	1351	U
3	A1	1352	C
3	A1	1354	U
3	A1	1357	A
3	A1	1359	C
3	A1	1361	G
3	A1	1362	A
3	A1	1363	A
3	A1	1364	U
3	A1	1365	G
3	A1	1366	C
3	A1	1367	C
3	A1	1370	G
3	A1	1374	A
3	A1	1378	C
3	A1	1379	G
3	A1	1380	U
3	A1	1381	U
3	A1	1383	C
3	A1	1384	C
3	A1	1388	C
3	A1	1389	C
3	A1	1392	G
3	A1	1394	A
3	A1	1395	C
3	A1	1396	A
3	A1	1397	C
3	A1	1398	A
3	A1	1399	C
3	A1	1400	C

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Mol	Chain	Res	Type
3	A1	1401	G
3	A1	1402	C
3	A1	1403	C
3	A1	1405	G
3	A1	1406	U
3	A1	1407	C
3	A1	1408	A
3	A1	1410	A
3	A1	1414	U
3	A1	1415	G
3	A1	1416	G
3	A1	1417	G
3	A1	1419	G
3	A1	1420	U
3	A1	1421	G
3	A1	1426	G
3	A1	1427	C
3	A1	1428	A
3	A1	1429	A
3	A1	1432	G
3	A1	1434	A
3	A1	1442	G
3	A1	1444	U
3	A1	1445	U
3	A1	1446	A
3	A1	1447	A
3	A1	1450	U
3	A1	1451	U
3	A1	1452	C
3	A1	1460	C
3	A1	1461	G
3	A1	1467	C
3	A1	1469	C
3	A1	1470	U
3	A1	1471	U
3	A1	1473	G
3	A1	1474	U
3	A1	1475	G
3	A1	1476	A
3	A1	1477	U
3	A1	1480	A
3	A1	1481	U

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Mol	Chain	Res	Type
3	A1	1482	G
3	A1	1483	A
3	A1	1484	C
3	A1	1485	U
3	A1	1486	G
3	A1	1489	G
3	A1	1491	G
3	A1	1492	A
3	A1	1493	A
3	A1	1494	G
3	A1	1495	U
3	A1	1498	U
3	A1	1499	A
3	A1	1501	C
3	A1	1502	A
3	A1	1503	A
3	A1	1504	G
3	A1	1505	G
3	A1	1506	U
3	A1	1507	A
3	A1	1508	A
3	A1	1509	C
3	A1	1510	C
3	A1	1512	U
3	A1	1516	G
3	A1	1517	G
3	A1	1518	A
3	A1	1519	A
3	A1	1520	C
3	A1	1522	U
3	A1	1523	G
3	A1	1525	G
3	A1	1526	G
3	A1	1527	U
3	A1	1528	U
3	A1	1529	G
3	A1	1530	G
3	A1	1531	A
24	BA	11	C
24	BA	13	G
24	BA	14	U
24	BA	15	A

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Mol	Chain	Res	Type
24	BA	20	G
24	BA	27	C
24	BA	29	A
24	BA	30	C
24	BA	31	C
24	BA	35	C
24	BA	36	C
24	BA	40	U
24	BA	41	G
24	BA	42	C
24	BA	44	G
24	BA	45	A
24	BA	46	A
24	BA	50	A
24	BA	51	G
24	BA	52	A
24	BA	58	A
24	BA	67	G
24	BA	70	C
24	BA	75	G
24	BA	78	A
24	BA	79	G
24	BA	80	U
24	BA	82	U
24	BA	88	C
24	BA	89	U
24	BA	94	A
24	BA	98	G
24	BA	100	G
24	BA	105	G
24	BA	108	A
24	BA	109	A
25	BB	2	G
25	BB	3	U
25	BB	4	U
25	BB	6	A
25	BB	7	G
25	BB	9	G
25	BB	10	A
25	BB	11	C
25	BB	12	U
25	BB	13	A

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Mol	Chain	Res	Type
25	BB	14	A
25	BB	15	G
25	BB	17	G
25	BB	18	U
25	BB	20	C
25	BB	23	G
25	BB	24	G
25	BB	25	U
25	BB	26	G
25	BB	27	G
25	BB	28	A
25	BB	29	U
25	BB	30	G
25	BB	31	C
25	BB	34	U
25	BB	35	G
25	BB	40	U
25	BB	43	G
25	BB	45	G
25	BB	48	G
25	BB	49	A
25	BB	52	A
25	BB	55	G
25	BB	57	C
25	BB	58	G
25	BB	59	U
25	BB	61	C
25	BB	62	U
25	BB	63	A
25	BB	64	A
25	BB	65	U
25	BB	67	U
25	BB	68	G
25	BB	69	C
25	BB	70	G
25	BB	71	A
25	BB	72	U
25	BB	73	A
25	BB	74	A
25	BB	75	G
25	BB	80	G
25	BB	81	G

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Mol	Chain	Res	Type
25	BB	82	U
25	BB	84	A
25	BB	85	G
25	BB	88	G
25	BB	89	A
25	BB	90	U
25	BB	91	A
25	BB	92	U
25	BB	96	C
25	BB	99	U
25	BB	100	U
25	BB	101	A
25	BB	102	U
25	BB	103	A
25	BB	104	A
25	BB	105	C
25	BB	106	C
25	BB	112	U
25	BB	113	U
25	BB	114	U
25	BB	117	G
25	BB	118	A
25	BB	119	A
25	BB	120	U
25	BB	121	G
25	BB	122	G
25	BB	124	G
25	BB	125	A
25	BB	126	A
25	BB	127	A
25	BB	128	C
25	BB	129	C
25	BB	130	C
25	BB	131	A
25	BB	142	A
25	BB	144	A
25	BB	148	U
25	BB	150	U
25	BB	152	A
25	BB	162	U
25	BB	163	C
25	BB	164	C

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Mol	Chain	Res	Type
25	BB	166	U
25	BB	170	U
25	BB	178	G
25	BB	186	G
25	BB	187	G
25	BB	188	G
25	BB	189	G
25	BB	190	A
25	BB	192	C
25	BB	195	A
25	BB	196	A
25	BB	197	A
25	BB	200	U
25	BB	204	A
25	BB	207	A
25	BB	208	C
25	BB	213	A
25	BB	216	A
25	BB	221	A
25	BB	222	A
25	BB	224	U
25	BB	227	A
25	BB	228	C
25	BB	230	G
25	BB	235	U
25	BB	239	C
25	BB	241	A
25	BB	248	G
25	BB	249	C
25	BB	250	G
25	BB	251	A
25	BB	254	G
25	BB	259	G
25	BB	264	C
25	BB	265	A
25	BB	270	A
25	BB	272	A
25	BB	277	G
25	BB	278	A
25	BB	281	C
25	BB	297	G
25	BB	301	G

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Mol	Chain	Res	Type
25	BB	302	C
25	BB	308	G
25	BB	310	A
25	BB	311	A
25	BB	312	G
25	BB	316	C
25	BB	317	G
25	BB	318	C
25	BB	319	G
25	BB	320	A
25	BB	321	U
25	BB	322	A
25	BB	323	C
25	BB	324	A
25	BB	325	G
25	BB	328	U
25	BB	329	G
25	BB	330	A
25	BB	331	C
25	BB	333	G
25	BB	334	C
25	BB	335	C
25	BB	340	A
25	BB	347	A
25	BB	351	C
25	BB	357	C
25	BB	361	G
25	BB	362	A
25	BB	371	A
25	BB	372	G
25	BB	376	G
25	BB	377	G
25	BB	379	G
25	BB	380	G
25	BB	382	A
25	BB	384	A
25	BB	385	C
25	BB	386	G
25	BB	387	U
25	BB	388	G
25	BB	389	G
25	BB	391	A

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Mol	Chain	Res	Type
25	BB	392	U
25	BB	393	C
25	BB	394	C
25	BB	398	C
25	BB	403	U
25	BB	404	A
25	BB	405	U
25	BB	406	G
25	BB	407	G
25	BB	409	G
25	BB	411	G
25	BB	412	A
25	BB	413	C
25	BB	422	A
25	BB	423	A
25	BB	424	G
25	BB	426	C
25	BB	427	U
25	BB	433	C
25	BB	434	U
25	BB	435	C
25	BB	437	U
25	BB	438	G
25	BB	443	A
25	BB	444	C
25	BB	446	G
25	BB	447	A
25	BB	448	U
25	BB	449	A
25	BB	450	G
25	BB	451	U
25	BB	452	G
25	BB	453	A
25	BB	454	A
25	BB	455	C
25	BB	456	C
25	BB	459	U
25	BB	462	C
25	BB	463	G
25	BB	464	U
25	BB	465	G
25	BB	467	G

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Mol	Chain	Res	Type
25	BB	469	G
25	BB	470	A
25	BB	474	G
25	BB	475	C
25	BB	476	G
25	BB	477	A
25	BB	479	A
25	BB	480	A
25	BB	481	G
25	BB	482	A
25	BB	484	C
25	BB	490	C
25	BB	491	G
25	BB	495	G
25	BB	498	G
25	BB	500	G
25	BB	503	A
25	BB	504	A
25	BB	505	A
25	BB	508	A
25	BB	509	C
25	BB	510	C
25	BB	511	U
25	BB	512	G
25	BB	515	A
25	BB	518	G
25	BB	525	U
25	BB	526	A
25	BB	527	C
25	BB	528	A
25	BB	529	A
25	BB	530	G
25	BB	531	C
25	BB	533	G
25	BB	534	U
25	BB	535	G
25	BB	536	G
25	BB	540	C
25	BB	541	A
25	BB	547	A
25	BB	548	G
25	BB	549	G

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Mol	Chain	Res	Type
25	BB	550	C
25	BB	551	G
25	BB	552	U
25	BB	553	G
25	BB	554	U
25	BB	555	G
25	BB	556	A
25	BB	558	U
25	BB	559	G
25	BB	560	C
25	BB	561	G
25	BB	562	U
25	BB	563	A
25	BB	565	C
25	BB	566	U
25	BB	567	U
25	BB	568	U
25	BB	569	U
25	BB	570	G
25	BB	571	U
25	BB	572	A
25	BB	573	U
25	BB	574	A
25	BB	575	A
25	BB	576	U
25	BB	577	G
25	BB	580	U
25	BB	581	C
25	BB	582	A
25	BB	583	G
25	BB	584	C
25	BB	585	G
25	BB	586	A
25	BB	587	C
25	BB	588	U
25	BB	591	U
25	BB	592	A
25	BB	593	U
25	BB	594	U
25	BB	597	G
25	BB	598	U
25	BB	600	G

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Mol	Chain	Res	Type
25	BB	603	A
25	BB	607	U
25	BB	614	A
25	BB	615	U
25	BB	616	A
25	BB	620	G
25	BB	622	G
25	BB	623	C
25	BB	627	A
25	BB	628	G
25	BB	629	G
25	BB	634	C
25	BB	637	A
25	BB	642	U
25	BB	643	A
25	BB	644	A
25	BB	645	C
25	BB	646	U
25	BB	653	U
25	BB	654	A
25	BB	655	A
25	BB	660	C
25	BB	662	G
25	BB	664	G
25	BB	665	U
25	BB	668	A
25	BB	669	G
25	BB	670	A
25	BB	671	C
25	BB	673	C
25	BB	675	A
25	BB	677	A
25	BB	678	C
25	BB	679	C
25	BB	683	U
25	BB	684	G
25	BB	685	A
25	BB	686	U
25	BB	687	C
25	BB	688	U
25	BB	690	G
25	BB	691	C

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Mol	Chain	Res	Type
25	BB	692	C
25	BB	694	U
25	BB	695	G
25	BB	700	G
25	BB	702	U
25	BB	703	U
25	BB	705	A
25	BB	707	G
25	BB	708	G
25	BB	715	A
25	BB	716	A
25	BB	717	C
25	BB	719	C
25	BB	724	U
25	BB	727	A
25	BB	728	G
25	BB	730	A
25	BB	732	C
25	BB	734	A
25	BB	736	C
25	BB	740	C
25	BB	741	U
25	BB	742	A
25	BB	744	U
25	BB	745	G
25	BB	747	U
25	BB	748	G
25	BB	749	A
25	BB	750	A
25	BB	752	A
25	BB	756	A
25	BB	757	G
25	BB	759	G
25	BB	760	G
25	BB	762	U
25	BB	763	G
25	BB	764	A
25	BB	765	C
25	BB	766	U
25	BB	767	U
25	BB	768	G
25	BB	769	U

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Mol	Chain	Res	Type
25	BB	772	C
25	BB	774	G
25	BB	775	G
25	BB	776	G
25	BB	777	G
25	BB	779	U
25	BB	783	A
25	BB	784	G
25	BB	786	C
25	BB	788	A
25	BB	789	A
25	BB	790	U
25	BB	791	C
25	BB	792	A
25	BB	793	A
25	BB	794	A
25	BB	796	C
25	BB	797	G
25	BB	799	G
25	BB	802	A
25	BB	804	A
25	BB	806	C
25	BB	808	G
25	BB	809	G
25	BB	810	U
25	BB	811	U
25	BB	812	C
25	BB	815	C
25	BB	818	G
25	BB	819	A
25	BB	820	A
25	BB	821	A
25	BB	823	C
25	BB	825	A
25	BB	826	U
25	BB	827	U
25	BB	828	U
25	BB	830	G
25	BB	831	G
25	BB	832	U
25	BB	834	G
25	BB	835	C

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Mol	Chain	Res	Type
25	BB	836	G
25	BB	837	C
25	BB	838	C
25	BB	839	U
25	BB	843	G
25	BB	846	U
25	BB	847	U
25	BB	856	G
25	BB	857	G
25	BB	859	G
25	BB	860	U
25	BB	861	A
25	BB	862	G
25	BB	865	C
25	BB	868	U
25	BB	870	U
25	BB	872	U
25	BB	878	A
25	BB	879	G
25	BB	887	U
25	BB	889	C
25	BB	897	C
25	BB	898	C
25	BB	900	A
25	BB	901	C
25	BB	902	C
25	BB	903	C
25	BB	906	U
25	BB	909	A
25	BB	910	A
25	BB	911	A
25	BB	912	C
25	BB	914	G
25	BB	915	C
25	BB	918	A
25	BB	919	U
25	BB	923	G
25	BB	932	U
25	BB	934	U
25	BB	936	A
25	BB	939	G
25	BB	942	G

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Mol	Chain	Res	Type
25	BB	944	C
25	BB	945	A
25	BB	946	C
25	BB	947	A
25	BB	948	C
25	BB	951	C
25	BB	952	G
25	BB	953	G
25	BB	954	G
25	BB	955	U
25	BB	956	G
25	BB	957	C
25	BB	958	U
25	BB	959	A
25	BB	960	A
25	BB	961	C
25	BB	962	G
25	BB	964	C
25	BB	965	C
25	BB	966	G
25	BB	967	U
25	BB	968	C
25	BB	969	G
25	BB	971	G
25	BB	972	A
25	BB	973	A
25	BB	974	G
25	BB	976	G
25	BB	978	G
25	BB	980	A
25	BB	981	A
25	BB	983	A
25	BB	984	A
25	BB	985	C
25	BB	988	A
25	BB	991	C
25	BB	993	G
25	BB	995	C
25	BB	996	A
25	BB	1003	G
25	BB	1004	U
25	BB	1006	C

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Mol	Chain	Res	Type
25	BB	1007	C
25	BB	1008	A
25	BB	1009	A
25	BB	1010	A
25	BB	1011	G
25	BB	1012	U
25	BB	1013	C
25	BB	1014	A
25	BB	1015	U
25	BB	1016	G
25	BB	1022	G
25	BB	1023	U
25	BB	1024	G
25	BB	1026	G
25	BB	1027	A
25	BB	1028	A
25	BB	1029	A
25	BB	1031	G
25	BB	1033	U
25	BB	1034	G
25	BB	1036	G
25	BB	1041	G
25	BB	1046	A
25	BB	1047	G
25	BB	1050	A
25	BB	1057	A
25	BB	1058	U
25	BB	1060	U
25	BB	1061	U
25	BB	1062	G
25	BB	1068	G
25	BB	1069	A
25	BB	1070	A
25	BB	1071	G
25	BB	1082	U
25	BB	1083	U
25	BB	1084	A
25	BB	1087	G
25	BB	1088	A
25	BB	1090	A
25	BB	1091	G
25	BB	1097	U

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Mol	Chain	Res	Type
25	BB	1098	A
25	BB	1104	C
25	BB	1107	G
25	BB	1108	U
25	BB	1110	G
25	BB	1112	G
25	BB	1120	G
25	BB	1124	G
25	BB	1126	A
25	BB	1127	A
25	BB	1128	G
25	BB	1129	A
25	BB	1130	U
25	BB	1131	G
25	BB	1132	U
25	BB	1133	A
25	BB	1134	A
25	BB	1135	C
25	BB	1137	G
25	BB	1138	G
25	BB	1140	C
25	BB	1141	U
25	BB	1142	A
25	BB	1143	A
25	BB	1144	A
25	BB	1153	C
25	BB	1155	A
25	BB	1156	A
25	BB	1158	C
25	BB	1159	U
25	BB	1161	C
25	BB	1172	C
25	BB	1175	A
25	BB	1176	U
25	BB	1185	G
25	BB	1186	G
25	BB	1188	U
25	BB	1190	G
25	BB	1192	G
25	BB	1193	G
25	BB	1198	U
25	BB	1200	C

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Mol	Chain	Res	Type
25	BB	1201	U
25	BB	1203	U
25	BB	1204	A
25	BB	1205	A
25	BB	1207	C
25	BB	1208	C
25	BB	1209	U
25	BB	1210	G
25	BB	1211	C
25	BB	1212	G
25	BB	1213	A
25	BB	1216	G
25	BB	1217	U
25	BB	1218	G
25	BB	1219	U
25	BB	1220	G
25	BB	1221	C
25	BB	1222	U
25	BB	1224	U
25	BB	1225	G
25	BB	1226	A
25	BB	1227	G
25	BB	1230	A
25	BB	1231	U
25	BB	1233	C
25	BB	1234	U
25	BB	1236	G
25	BB	1237	A
25	BB	1239	G
25	BB	1240	U
25	BB	1241	A
25	BB	1242	U
25	BB	1243	C
25	BB	1246	A
25	BB	1248	G
25	BB	1249	U
25	BB	1251	C
25	BB	1252	G
25	BB	1253	A
25	BB	1254	A
25	BB	1255	U
25	BB	1256	G

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Mol	Chain	Res	Type
25	BB	1257	C
25	BB	1258	U
25	BB	1259	G
25	BB	1260	A
25	BB	1261	C
25	BB	1264	A
25	BB	1265	A
25	BB	1266	G
25	BB	1267	U
25	BB	1268	A
25	BB	1269	A
25	BB	1270	C
25	BB	1272	A
25	BB	1273	U
25	BB	1274	A
25	BB	1275	A
25	BB	1285	A
25	BB	1286	A
25	BB	1296	G
25	BB	1300	G
25	BB	1301	A
25	BB	1302	A
25	BB	1303	G
25	BB	1305	C
25	BB	1306	C
25	BB	1308	A
25	BB	1309	G
25	BB	1310	G
25	BB	1311	G
25	BB	1312	U
25	BB	1313	U
25	BB	1314	C
25	BB	1315	C
25	BB	1316	U
25	BB	1321	A
25	BB	1322	A
25	BB	1323	C
25	BB	1324	G
25	BB	1325	U
25	BB	1326	U
25	BB	1333	G
25	BB	1334	G

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Mol	Chain	Res	Type
25	BB	1337	G
25	BB	1338	G
25	BB	1339	G
25	BB	1340	U
25	BB	1341	G
25	BB	1342	A
25	BB	1343	G
25	BB	1344	U
25	BB	1346	G
25	BB	1347	A
25	BB	1348	C
25	BB	1349	C
25	BB	1350	C
25	BB	1352	U
25	BB	1353	A
25	BB	1357	C
25	BB	1362	C
25	BB	1363	C
25	BB	1364	G
25	BB	1365	A
25	BB	1368	G
25	BB	1375	U
25	BB	1378	A
25	BB	1379	U
25	BB	1380	G
25	BB	1381	G
25	BB	1384	A
25	BB	1385	A
25	BB	1390	U
25	BB	1392	A
25	BB	1393	A
25	BB	1394	U
25	BB	1395	A
25	BB	1396	U
25	BB	1398	C
25	BB	1399	C
25	BB	1400	U
25	BB	1404	C
25	BB	1405	U
25	BB	1416	G
25	BB	1419	A
25	BB	1420	A

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Mol	Chain	Res	Type
25	BB	1421	G
25	BB	1425	G
25	BB	1426	G
25	BB	1428	C
25	BB	1430	G
25	BB	1432	G
25	BB	1438	U
25	BB	1439	A
25	BB	1442	U
25	BB	1444	G
25	BB	1446	C
25	BB	1450	G
25	BB	1451	C
25	BB	1456	G
25	BB	1457	U
25	BB	1458	U
25	BB	1459	G
25	BB	1460	U
25	BB	1462	C
25	BB	1463	C
25	BB	1467	U
25	BB	1469	A
25	BB	1472	C
25	BB	1473	G
25	BB	1474	U
25	BB	1475	G
25	BB	1476	U
25	BB	1478	G
25	BB	1479	G
25	BB	1482	G
25	BB	1491	G
25	BB	1497	U
25	BB	1498	C
25	BB	1509	A
25	BB	1510	G
25	BB	1514	G
25	BB	1524	G
25	BB	1540	G
25	BB	1541	C
25	BB	1544	A
25	BB	1553	A
25	BB	1558	C

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Mol	Chain	Res	Type
25	BB	1559	U
25	BB	1560	G
25	BB	1561	C
25	BB	1566	A
25	BB	1567	G
25	BB	1568	G
25	BB	1569	A
25	BB	1572	A
25	BB	1574	C
25	BB	1578	U
25	BB	1581	G
25	BB	1583	A
25	BB	1584	U
25	BB	1585	C
25	BB	1589	U
25	BB	1590	A
25	BB	1597	A
25	BB	1598	A
25	BB	1599	U
25	BB	1600	C
25	BB	1604	C
25	BB	1605	C
25	BB	1607	C
25	BB	1608	A
25	BB	1609	A
25	BB	1610	A
25	BB	1614	A
25	BB	1615	C
25	BB	1616	A
25	BB	1617	C
25	BB	1618	A
25	BB	1619	G
25	BB	1620	G
25	BB	1621	U
25	BB	1624	U
25	BB	1625	C
25	BB	1626	A
25	BB	1627	G
25	BB	1631	G
25	BB	1634	A
25	BB	1635	A
25	BB	1636	U

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Mol	Chain	Res	Type
25	BB	1639	C
25	BB	1640	A
25	BB	1642	G
25	BB	1644	C
25	BB	1646	C
25	BB	1648	U
25	BB	1650	A
25	BB	1651	G
25	BB	1654	A
25	BB	1655	A
25	BB	1656	C
25	BB	1657	U
25	BB	1658	C
25	BB	1661	G
25	BB	1662	U
25	BB	1663	G
25	BB	1666	G
25	BB	1668	A
25	BB	1669	A
25	BB	1670	C
25	BB	1672	A
25	BB	1674	G
25	BB	1675	C
25	BB	1677	A
25	BB	1679	A
25	BB	1680	U
25	BB	1681	G
25	BB	1682	G
25	BB	1683	U
25	BB	1687	G
25	BB	1692	U
25	BB	1693	U
25	BB	1694	C
25	BB	1695	G
25	BB	1696	G
25	BB	1698	A
25	BB	1699	G
25	BB	1700	A
25	BB	1701	A
25	BB	1702	G
25	BB	1703	G
25	BB	1704	C

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Mol	Chain	Res	Type
25	BB	1714	U
25	BB	1715	G
25	BB	1716	U
25	BB	1717	A
25	BB	1718	G
25	BB	1723	G
25	BB	1730	C
25	BB	1732	C
25	BB	1737	G
25	BB	1738	G
25	BB	1745	A
25	BB	1750	G
25	BB	1752	C
25	BB	1754	A
25	BB	1755	A
25	BB	1756	G
25	BB	1757	A
25	BB	1758	U
25	BB	1763	G
25	BB	1764	C
25	BB	1766	G
25	BB	1767	G
25	BB	1768	C
25	BB	1769	U
25	BB	1770	G
25	BB	1773	A
25	BB	1774	C
25	BB	1775	U
25	BB	1776	G
25	BB	1777	U
25	BB	1779	U
25	BB	1780	A
25	BB	1781	U
25	BB	1782	U
25	BB	1783	A
25	BB	1784	A
25	BB	1785	A
25	BB	1789	A
25	BB	1790	C
25	BB	1791	A
25	BB	1793	C
25	BB	1800	C

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Mol	Chain	Res	Type
25	BB	1802	A
25	BB	1804	C
25	BB	1805	A
25	BB	1806	C
25	BB	1807	G
25	BB	1809	A
25	BB	1810	A
25	BB	1811	G
25	BB	1812	U
25	BB	1814	G
25	BB	1816	C
25	BB	1819	A
25	BB	1820	U
25	BB	1821	A
25	BB	1822	C
25	BB	1824	G
25	BB	1825	U
25	BB	1826	G
25	BB	1827	U
25	BB	1828	G
25	BB	1829	A
25	BB	1830	C
25	BB	1835	G
25	BB	1836	C
25	BB	1837	C
25	BB	1838	C
25	BB	1844	C
25	BB	1847	A
25	BB	1849	G
25	BB	1853	A
25	BB	1855	U
25	BB	1858	A
25	BB	1859	U
25	BB	1865	U
25	BB	1869	G
25	BB	1870	C
25	BB	1873	G
25	BB	1875	G
25	BB	1882	U
25	BB	1883	U
25	BB	1884	G
25	BB	1888	G

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Mol	Chain	Res	Type
25	BB	1889	A
25	BB	1890	A
25	BB	1891	G
25	BB	1892	C
25	BB	1894	C
25	BB	1896	G
25	BB	1897	G
25	BB	1898	U
25	BB	1899	A
25	BB	1900	A
25	BB	1901	A
25	BB	1903	G
25	BB	1906	G
25	BB	1907	G
25	BB	1909	C
25	BB	1912	A
25	BB	1913	A
25	BB	1914	C
25	BB	1915	U
25	BB	1916	A
25	BB	1918	A
25	BB	1919	A
25	BB	1920	C
25	BB	1925	C
25	BB	1928	A
25	BB	1930	G
25	BB	1932	A
25	BB	1933	G
25	BB	1934	C
25	BB	1935	G
25	BB	1936	A
25	BB	1937	A
25	BB	1938	A
25	BB	1939	U
25	BB	1940	U
25	BB	1941	C
25	BB	1942	C
25	BB	1943	U
25	BB	1944	U
25	BB	1945	G
25	BB	1946	U
25	BB	1947	C

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Mol	Chain	Res	Type
25	BB	1952	A
25	BB	1953	A
25	BB	1954	G
25	BB	1955	U
25	BB	1956	U
25	BB	1957	C
25	BB	1959	G
25	BB	1961	C
25	BB	1962	C
25	BB	1963	U
25	BB	1964	G
25	BB	1965	C
25	BB	1967	C
25	BB	1969	A
25	BB	1970	A
25	BB	1971	U
25	BB	1972	G
25	BB	1973	G
25	BB	1974	C
25	BB	1977	A
25	BB	1978	A
25	BB	1979	U
25	BB	1980	G
25	BB	1981	A
25	BB	1982	U
25	BB	1983	G
25	BB	1986	C
25	BB	1987	A
25	BB	1989	G
25	BB	1991	U
25	BB	1992	G
25	BB	1993	U
25	BB	1994	C
25	BB	1995	U
25	BB	1996	C
25	BB	1997	C
25	BB	1999	C
25	BB	2001	C
25	BB	2002	G
25	BB	2004	G
25	BB	2006	C
25	BB	2007	U

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Mol	Chain	Res	Type
25	BB	2010	G
25	BB	2011	U
25	BB	2013	A
25	BB	2014	A
25	BB	2015	A
25	BB	2017	U
25	BB	2018	G
25	BB	2020	A
25	BB	2021	C
25	BB	2022	U
25	BB	2023	C
25	BB	2025	C
25	BB	2026	U
25	BB	2027	G
25	BB	2029	G
25	BB	2030	A
25	BB	2031	A
25	BB	2032	G
25	BB	2033	A
25	BB	2034	U
25	BB	2035	G
25	BB	2036	C
25	BB	2037	A
25	BB	2043	C
25	BB	2044	C
25	BB	2046	G
25	BB	2047	C
25	BB	2049	G
25	BB	2050	C
25	BB	2051	A
25	BB	2052	A
25	BB	2054	A
25	BB	2056	G
25	BB	2057	G
25	BB	2060	A
25	BB	2061	G
25	BB	2062	A
25	BB	2063	C
25	BB	2064	C
25	BB	2067	G
25	BB	2068	U
25	BB	2069	G

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Mol	Chain	Res	Type
25	BB	2071	A
25	BB	2072	C
25	BB	2075	U
25	BB	2076	U
25	BB	2077	A
25	BB	2079	U
25	BB	2080	A
25	BB	2086	U
25	BB	2088	A
25	BB	2091	C
25	BB	2092	U
25	BB	2095	A
25	BB	2096	C
25	BB	2103	C
25	BB	2104	C
25	BB	2105	U
25	BB	2107	G
25	BB	2108	A
25	BB	2109	U
25	BB	2113	U
25	BB	2114	A
25	BB	2116	G
25	BB	2118	U
25	BB	2120	G
25	BB	2121	G
25	BB	2123	G
25	BB	2125	G
25	BB	2126	A
25	BB	2127	G
25	BB	2132	U
25	BB	2136	G
25	BB	2138	G
25	BB	2144	G
25	BB	2145	C
25	BB	2146	C
25	BB	2147	A
25	BB	2148	G
25	BB	2149	U
25	BB	2154	A
25	BB	2158	A
25	BB	2159	G
25	BB	2163	A

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Mol	Chain	Res	Type
25	BB	2164	C
25	BB	2165	C
25	BB	2172	U
25	BB	2174	C
25	BB	2179	C
25	BB	2182	U
25	BB	2195	U
25	BB	2196	C
25	BB	2197	U
25	BB	2198	A
25	BB	2199	A
25	BB	2200	C
25	BB	2202	U
25	BB	2203	U
25	BB	2204	G
25	BB	2211	A
25	BB	2212	A
25	BB	2213	U
25	BB	2214	C
25	BB	2215	C
25	BB	2223	G
25	BB	2228	G
25	BB	2229	U
25	BB	2235	G
25	BB	2236	U
25	BB	2239	G
25	BB	2240	U
25	BB	2241	A
25	BB	2242	G
25	BB	2243	U
25	BB	2244	U
25	BB	2245	U
25	BB	2246	G
25	BB	2247	A
25	BB	2249	U
25	BB	2250	G
25	BB	2251	G
25	BB	2252	G
25	BB	2253	G
25	BB	2254	C
25	BB	2255	G
25	BB	2257	U

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Mol	Chain	Res	Type
25	BB	2258	C
25	BB	2259	U
25	BB	2261	C
25	BB	2264	C
25	BB	2266	A
25	BB	2267	A
25	BB	2268	A
25	BB	2269	G
25	BB	2270	A
25	BB	2271	G
25	BB	2272	U
25	BB	2273	A
25	BB	2274	A
25	BB	2275	C
25	BB	2276	G
25	BB	2277	G
25	BB	2278	A
25	BB	2279	G
25	BB	2281	A
25	BB	2282	G
25	BB	2283	C
25	BB	2285	C
25	BB	2286	G
25	BB	2289	G
25	BB	2290	G
25	BB	2291	U
25	BB	2295	C
25	BB	2297	A
25	BB	2304	G
25	BB	2305	U
25	BB	2307	G
25	BB	2308	G
25	BB	2310	C
25	BB	2312	U
25	BB	2314	A
25	BB	2315	G
25	BB	2317	A
25	BB	2318	G
25	BB	2320	U
25	BB	2321	U
25	BB	2322	A
25	BB	2323	G

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Mol	Chain	Res	Type
25	BB	2325	G
25	BB	2326	C
25	BB	2328	A
25	BB	2331	G
25	BB	2332	C
25	BB	2334	U
25	BB	2335	A
25	BB	2336	A
25	BB	2337	G
25	BB	2338	C
25	BB	2339	C
25	BB	2340	A
25	BB	2345	G
25	BB	2346	A
25	BB	2347	C
25	BB	2349	G
25	BB	2353	G
25	BB	2354	C
25	BB	2356	U
25	BB	2357	G
25	BB	2358	A
25	BB	2359	C
25	BB	2360	G
25	BB	2361	G
25	BB	2364	C
25	BB	2367	G
25	BB	2370	G
25	BB	2371	G
25	BB	2374	C
25	BB	2376	A
25	BB	2377	A
25	BB	2378	A
25	BB	2379	G
25	BB	2384	U
25	BB	2385	C
25	BB	2387	U
25	BB	2390	U
25	BB	2391	G
25	BB	2392	A
25	BB	2393	U
25	BB	2394	C
25	BB	2396	G

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Mol	Chain	Res	Type
25	BB	2402	U
25	BB	2403	C
25	BB	2406	A
25	BB	2407	A
25	BB	2408	U
25	BB	2409	G
25	BB	2417	C
25	BB	2418	A
25	BB	2420	C
25	BB	2421	G
25	BB	2422	C
25	BB	2423	U
25	BB	2425	A
25	BB	2426	A
25	BB	2428	G
25	BB	2430	A
25	BB	2431	U
25	BB	2432	A
25	BB	2433	A
25	BB	2434	A
25	BB	2437	G
25	BB	2439	A
25	BB	2440	C
25	BB	2442	C
25	BB	2443	C
25	BB	2444	G
25	BB	2445	G
25	BB	2446	G
25	BB	2447	G
25	BB	2451	A
25	BB	2453	A
25	BB	2454	G
25	BB	2455	G
25	BB	2456	C
25	BB	2457	U
25	BB	2458	G
25	BB	2459	A
25	BB	2460	U
25	BB	2461	A
25	BB	2465	C
25	BB	2468	A
25	BB	2472	G

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Mol	Chain	Res	Type
25	BB	2474	U
25	BB	2475	C
25	BB	2476	A
25	BB	2478	A
25	BB	2480	C
25	BB	2482	A
25	BB	2484	G
25	BB	2489	U
25	BB	2490	G
25	BB	2491	U
25	BB	2492	U
25	BB	2495	G
25	BB	2496	C
25	BB	2497	A
25	BB	2498	C
25	BB	2499	C
25	BB	2501	C
25	BB	2502	G
25	BB	2503	A
25	BB	2504	U
25	BB	2505	G
25	BB	2506	U
25	BB	2507	C
25	BB	2508	G
25	BB	2509	G
25	BB	2510	C
25	BB	2511	U
25	BB	2512	C
25	BB	2513	A
25	BB	2514	U
25	BB	2516	A
25	BB	2517	C
25	BB	2518	A
25	BB	2520	C
25	BB	2521	C
25	BB	2522	U
25	BB	2523	G
25	BB	2529	G
25	BB	2530	A
25	BB	2531	A
25	BB	2532	G
25	BB	2534	A

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Mol	Chain	Res	Type
25	BB	2536	G
25	BB	2538	C
25	BB	2539	C
25	BB	2540	C
25	BB	2542	A
25	BB	2543	G
25	BB	2544	G
25	BB	2545	G
25	BB	2548	U
25	BB	2549	G
25	BB	2551	C
25	BB	2552	U
25	BB	2554	U
25	BB	2555	U
25	BB	2556	C
25	BB	2557	G
25	BB	2562	U
25	BB	2563	U
25	BB	2564	A
25	BB	2565	A
25	BB	2566	A
25	BB	2570	G
25	BB	2571	U
25	BB	2572	A
25	BB	2573	C
25	BB	2574	G
25	BB	2575	C
25	BB	2576	G
25	BB	2577	A
25	BB	2578	G
25	BB	2579	C
25	BB	2580	U
25	BB	2581	G
25	BB	2582	G
25	BB	2584	U
25	BB	2586	U
25	BB	2587	A
25	BB	2588	G
25	BB	2590	A
25	BB	2591	C
25	BB	2594	C
25	BB	2595	G

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Mol	Chain	Res	Type
25	BB	2598	A
25	BB	2599	G
25	BB	2601	C
25	BB	2602	A
25	BB	2604	U
25	BB	2609	U
25	BB	2610	C
25	BB	2612	C
25	BB	2613	U
25	BB	2614	A
25	BB	2615	U
25	BB	2616	C
25	BB	2617	U
25	BB	2618	G
25	BB	2619	C
25	BB	2620	C
25	BB	2621	G
25	BB	2622	U
25	BB	2627	G
25	BB	2629	U
25	BB	2630	G
25	BB	2632	A
25	BB	2634	A
25	BB	2637	U
25	BB	2638	G
25	BB	2639	A
25	BB	2640	G
25	BB	2641	G
25	BB	2642	G
25	BB	2644	G
25	BB	2645	G
25	BB	2646	C
25	BB	2649	C
25	BB	2652	C
25	BB	2653	U
25	BB	2654	A
25	BB	2655	G
25	BB	2660	A
25	BB	2661	G
25	BB	2663	G
25	BB	2675	A
25	BB	2676	C

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Mol	Chain	Res	Type
25	BB	2678	C
25	BB	2681	C
25	BB	2682	A
25	BB	2683	C
25	BB	2684	U
25	BB	2690	U
25	BB	2691	C
25	BB	2693	G
25	BB	2694	G
25	BB	2695	U
25	BB	2696	U
25	BB	2697	G
25	BB	2699	C
25	BB	2700	A
25	BB	2708	G
25	BB	2709	G
25	BB	2710	C
25	BB	2711	A
25	BB	2714	G
25	BB	2715	C
25	BB	2718	G
25	BB	2719	G
25	BB	2721	A
25	BB	2722	G
25	BB	2726	A
25	BB	2727	A
25	BB	2728	U
25	BB	2729	G
25	BB	2732	G
25	BB	2733	A
25	BB	2735	G
25	BB	2739	U
25	BB	2744	G
25	BB	2745	C
25	BB	2750	A
25	BB	2751	G
25	BB	2752	C
25	BB	2753	A
25	BB	2755	C
25	BB	2757	A
25	BB	2758	A
25	BB	2759	G

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Mol	Chain	Res	Type
25	BB	2764	A
25	BB	2765	A
25	BB	2766	A
25	BB	2767	C
25	BB	2769	U
25	BB	2770	G
25	BB	2771	C
25	BB	2773	C
25	BB	2774	C
25	BB	2776	A
25	BB	2777	G
25	BB	2779	U
25	BB	2780	G
25	BB	2781	A
25	BB	2784	U
25	BB	2785	C
25	BB	2791	G
25	BB	2793	C
25	BB	2796	U
25	BB	2801	G
25	BB	2807	U
25	BB	2808	G
25	BB	2815	C
25	BB	2816	G
25	BB	2818	U
25	BB	2819	G
25	BB	2820	A
25	BB	2821	A
25	BB	2822	G
25	BB	2823	A
25	BB	2824	C
25	BB	2829	A
25	BB	2836	U
25	BB	2839	G
25	BB	2841	C
25	BB	2844	G
25	BB	2846	G
25	BB	2847	U
25	BB	2848	G
25	BB	2849	U
25	BB	2850	A
25	BB	2858	C

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Mol	Chain	Res	Type
25	BB	2859	G
25	BB	2864	G
25	BB	2870	C
25	BB	2871	U
25	BB	2872	A
25	BB	2873	A
25	BB	2874	C
25	BB	2875	C
25	BB	2880	C
25	BB	2881	U
25	BB	2882	A
25	BB	2883	A
25	BB	2884	U
25	BB	2886	A
25	BB	2887	A
25	BB	2890	G
25	BB	2891	U
25	BB	2894	G
25	BB	2895	G
25	BB	2903	U

All (814) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	AA	1	G
1	AA	8	U
1	AA	16	U
1	AA	17	U
1	AA	22	G
1	AA	32	C
1	AA	58	A
1	AA	70	C
1	AA	73	A
1	AA	74	C
1	AP	9	A
1	AP	18	G
1	AP	19	G
1	AP	20	G
1	AP	36	A
1	AP	41	U
1	AP	46	G
1	AP	58	A

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Mol	Chain	Res	Type
1	AP	74	C
1	AE	16	U
1	AE	43	G
1	AE	46	G
1	AE	47	U
1	AE	72	C
2	AM	1	U
2	AM	4	U
2	AM	5	U
2	AM	6	U
2	AM	12	U
2	AM	13	U
2	AM	14	U
2	AM	19	U
3	A1	6	G
3	A1	12	U
3	A1	15	G
3	A1	19	A
3	A1	21	G
3	A1	25	C
3	A1	26	A
3	A1	29	U
3	A1	30	U
3	A1	32	A
3	A1	45	G
3	A1	46	G
3	A1	48	C
3	A1	50	A
3	A1	60	A
3	A1	61	G
3	A1	64	G
3	A1	65	A
3	A1	70	U
3	A1	86	G
3	A1	93	U
3	A1	100	G
3	A1	108	G
3	A1	109	A
3	A1	115	G
3	A1	118	U
3	A1	119	A
3	A1	121	U

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Mol	Chain	Res	Type
3	A1	122	G
3	A1	125	U
3	A1	149	A
3	A1	150	U
3	A1	158	G
3	A1	159	G
3	A1	167	A
3	A1	170	U
3	A1	182	A
3	A1	183	C
3	A1	197	A
3	A1	203	G
3	A1	210	C
3	A1	224	U
3	A1	225	C
3	A1	226	G
3	A1	237	G
3	A1	240	G
3	A1	244	U
3	A1	247	G
3	A1	257	G
3	A1	264	C
3	A1	274	A
3	A1	280	C
3	A1	290	C
3	A1	305	G
3	A1	306	A
3	A1	315	A
3	A1	316	C
3	A1	318	G
3	A1	332	G
3	A1	355	C
3	A1	357	G
3	A1	363	A
3	A1	366	A
3	A1	368	U
3	A1	376	G
3	A1	381	C
3	A1	390	U
3	A1	422	C
3	A1	425	G
3	A1	427	U

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Mol	Chain	Res	Type
3	A1	429	U
3	A1	432	A
3	A1	439	U
3	A1	451	A
3	A1	460	A
3	A1	466	A
3	A1	468	A
3	A1	484	G
3	A1	499	A
3	A1	500	G
3	A1	503	C
3	A1	504	C
3	A1	505	G
3	A1	509	A
3	A1	511	C
3	A1	522	C
3	A1	524	G
3	A1	549	C
3	A1	550	G
3	A1	559	A
3	A1	568	G
3	A1	572	A
3	A1	573	A
3	A1	577	G
3	A1	580	C
3	A1	597	G
3	A1	604	G
3	A1	615	G
3	A1	629	A
3	A1	632	U
3	A1	649	A
3	A1	651	C
3	A1	652	U
3	A1	654	G
3	A1	667	G
3	A1	680	C
3	A1	683	G
3	A1	684	U
3	A1	687	A
3	A1	691	G
3	A1	699	C
3	A1	707	U

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Mol	Chain	Res	Type
3	A1	713	G
3	A1	718	A
3	A1	723	U
3	A1	730	G
3	A1	743	A
3	A1	744	C
3	A1	755	G
3	A1	767	A
3	A1	771	G
3	A1	773	G
3	A1	777	A
3	A1	783	C
3	A1	793	U
3	A1	795	C
3	A1	796	C
3	A1	803	G
3	A1	805	C
3	A1	811	C
3	A1	814	A
3	A1	818	G
3	A1	821	G
3	A1	825	A
3	A1	826	C
3	A1	827	U
3	A1	844	G
3	A1	859	G
3	A1	863	U
3	A1	864	A
3	A1	867	G
3	A1	869	G
3	A1	870	U
3	A1	872	A
3	A1	874	G
3	A1	876	C
3	A1	881	G
3	A1	884	U
3	A1	886	G
3	A1	888	G
3	A1	891	U
3	A1	893	C
3	A1	914	A
3	A1	921	U

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Mol	Chain	Res	Type
3	A1	922	G
3	A1	923	A
3	A1	924	C
3	A1	931	C
3	A1	934	C
3	A1	937	A
3	A1	938	A
3	A1	961	U
3	A1	962	C
3	A1	964	A
3	A1	965	U
3	A1	968	A
3	A1	972	C
3	A1	975	A
3	A1	976	G
3	A1	979	C
3	A1	980	C
3	A1	981	U
3	A1	993	G
3	A1	997	U
3	A1	1000	A
3	A1	1004	A
3	A1	1016	A
3	A1	1025	U
3	A1	1026	G
3	A1	1028	C
3	A1	1036	A
3	A1	1049	U
3	A1	1053	G
3	A1	1054	C
3	A1	1056	U
3	A1	1061	G
3	A1	1062	U
3	A1	1064	G
3	A1	1067	A
3	A1	1077	G
3	A1	1083	U
3	A1	1084	G
3	A1	1103	C
3	A1	1106	G
3	A1	1109	C
3	A1	1125	U

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Mol	Chain	Res	Type
3	A1	1130	A
3	A1	1142	G
3	A1	1151	A
3	A1	1157	A
3	A1	1167	A
3	A1	1169	A
3	A1	1183	U
3	A1	1188	A
3	A1	1191	A
3	A1	1194	U
3	A1	1196	A
3	A1	1198	G
3	A1	1199	U
3	A1	1200	C
3	A1	1203	C
3	A1	1209	C
3	A1	1214	C
3	A1	1216	A
3	A1	1217	C
3	A1	1219	A
3	A1	1220	G
3	A1	1224	U
3	A1	1228	C
3	A1	1232	U
3	A1	1259	C
3	A1	1262	C
3	A1	1267	C
3	A1	1268	G
3	A1	1279	G
3	A1	1281	C
3	A1	1284	C
3	A1	1291	U
3	A1	1302	C
3	A1	1334	G
3	A1	1336	C
3	A1	1337	G
3	A1	1340	A
3	A1	1343	G
3	A1	1346	A
3	A1	1363	A
3	A1	1365	G
3	A1	1367	C

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Mol	Chain	Res	Type
3	A1	1382	C
3	A1	1391	U
3	A1	1395	C
3	A1	1397	C
3	A1	1399	C
3	A1	1405	G
3	A1	1407	C
3	A1	1414	U
3	A1	1416	G
3	A1	1418	A
3	A1	1420	U
3	A1	1422	G
3	A1	1428	A
3	A1	1441	A
3	A1	1443	C
3	A1	1445	U
3	A1	1459	G
3	A1	1461	G
3	A1	1472	U
3	A1	1474	U
3	A1	1476	A
3	A1	1482	G
3	A1	1483	A
3	A1	1497	G
3	A1	1498	U
3	A1	1503	A
3	A1	1504	G
3	A1	1510	C
3	A1	1518	A
3	A1	1520	C
3	A1	1526	G
3	A1	1530	G
24	BA	25	U
24	BA	29	A
24	BA	39	A
24	BA	40	U
24	BA	45	A
24	BA	50	A
24	BA	51	G
24	BA	60	C
24	BA	65	U
24	BA	69	G

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Mol	Chain	Res	Type
24	BA	76	G
24	BA	78	A
24	BA	79	G
24	BA	82	U
24	BA	88	C
24	BA	98	G
24	BA	102	G
24	BA	106	G
25	BB	6	A
25	BB	10	A
25	BB	13	A
25	BB	14	A
25	BB	16	C
25	BB	17	G
25	BB	18	U
25	BB	27	G
25	BB	40	U
25	BB	45	G
25	BB	48	G
25	BB	49	A
25	BB	61	C
25	BB	62	U
25	BB	64	A
25	BB	70	G
25	BB	74	A
25	BB	80	G
25	BB	82	U
25	BB	90	U
25	BB	91	A
25	BB	92	U
25	BB	95	A
25	BB	100	U
25	BB	101	A
25	BB	102	U
25	BB	105	C
25	BB	107	G
25	BB	112	U
25	BB	117	G
25	BB	120	U
25	BB	121	G
25	BB	125	A
25	BB	126	A

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Mol	Chain	Res	Type
25	BB	127	A
25	BB	147	C
25	BB	149	A
25	BB	151	C
25	BB	196	A
25	BB	198	C
25	BB	207	A
25	BB	221	A
25	BB	222	A
25	BB	226	A
25	BB	227	A
25	BB	228	C
25	BB	247	G
25	BB	249	C
25	BB	250	G
25	BB	269	C
25	BB	280	U
25	BB	301	G
25	BB	316	C
25	BB	317	G
25	BB	320	A
25	BB	321	U
25	BB	323	C
25	BB	329	G
25	BB	330	A
25	BB	331	C
25	BB	332	A
25	BB	333	G
25	BB	376	G
25	BB	378	C
25	BB	379	G
25	BB	384	A
25	BB	406	G
25	BB	411	G
25	BB	423	A
25	BB	427	U
25	BB	435	C
25	BB	438	G
25	BB	448	U
25	BB	449	A
25	BB	453	A
25	BB	454	A

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Mol	Chain	Res	Type
25	BB	456	C
25	BB	459	U
25	BB	464	U
25	BB	469	G
25	BB	471	A
25	BB	473	G
25	BB	476	G
25	BB	479	A
25	BB	497	A
25	BB	499	U
25	BB	503	A
25	BB	528	A
25	BB	529	A
25	BB	532	A
25	BB	533	G
25	BB	540	C
25	BB	546	U
25	BB	549	G
25	BB	552	U
25	BB	568	U
25	BB	570	G
25	BB	571	U
25	BB	575	A
25	BB	581	C
25	BB	593	U
25	BB	594	U
25	BB	596	U
25	BB	614	A
25	BB	619	G
25	BB	633	A
25	BB	651	G
25	BB	653	U
25	BB	664	G
25	BB	667	U
25	BB	670	A
25	BB	672	C
25	BB	673	C
25	BB	674	G
25	BB	678	C
25	BB	683	U
25	BB	685	A
25	BB	690	G

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Mol	Chain	Res	Type
25	BB	691	C
25	BB	694	U
25	BB	700	G
25	BB	701	G
25	BB	711	G
25	BB	713	G
25	BB	718	A
25	BB	727	A
25	BB	739	A
25	BB	740	C
25	BB	748	G
25	BB	761	A
25	BB	763	G
25	BB	764	A
25	BB	765	C
25	BB	768	G
25	BB	773	U
25	BB	774	G
25	BB	775	G
25	BB	781	A
25	BB	789	A
25	BB	793	A
25	BB	796	C
25	BB	809	G
25	BB	811	U
25	BB	814	C
25	BB	819	A
25	BB	824	U
25	BB	825	A
25	BB	864	G
25	BB	867	C
25	BB	878	A
25	BB	896	A
25	BB	903	C
25	BB	908	C
25	BB	918	A
25	BB	954	G
25	BB	957	C
25	BB	958	U
25	BB	959	A
25	BB	961	C
25	BB	967	U

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Mol	Chain	Res	Type
25	BB	968	C
25	BB	971	G
25	BB	973	A
25	BB	975	A
25	BB	976	G
25	BB	982	C
25	BB	1008	A
25	BB	1010	A
25	BB	1011	G
25	BB	1015	U
25	BB	1017	G
25	BB	1022	G
25	BB	1027	A
25	BB	1030	C
25	BB	1046	A
25	BB	1056	G
25	BB	1062	G
25	BB	1068	G
25	BB	1069	A
25	BB	1087	G
25	BB	1107	G
25	BB	1109	C
25	BB	1111	A
25	BB	1140	C
25	BB	1143	A
25	BB	1152	C
25	BB	1157	G
25	BB	1161	C
25	BB	1164	C
25	BB	1185	G
25	BB	1186	G
25	BB	1189	A
25	BB	1192	G
25	BB	1193	G
25	BB	1198	U
25	BB	1200	C
25	BB	1203	U
25	BB	1204	A
25	BB	1206	G
25	BB	1209	U
25	BB	1210	G
25	BB	1211	C

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Mol	Chain	Res	Type
25	BB	1212	G
25	BB	1214	A
25	BB	1226	A
25	BB	1235	G
25	BB	1240	U
25	BB	1247	A
25	BB	1250	G
25	BB	1251	C
25	BB	1252	G
25	BB	1253	A
25	BB	1259	G
25	BB	1263	U
25	BB	1270	C
25	BB	1273	U
25	BB	1274	A
25	BB	1284	A
25	BB	1286	A
25	BB	1287	A
25	BB	1305	C
25	BB	1308	A
25	BB	1309	G
25	BB	1314	C
25	BB	1322	A
25	BB	1323	C
25	BB	1324	G
25	BB	1325	U
25	BB	1333	G
25	BB	1340	U
25	BB	1341	G
25	BB	1343	G
25	BB	1348	C
25	BB	1349	C
25	BB	1356	G
25	BB	1361	G
25	BB	1362	C
25	BB	1379	U
25	BB	1391	U
25	BB	1398	C
25	BB	1403	A
25	BB	1419	A
25	BB	1425	G
25	BB	1441	G

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Mol	Chain	Res	Type
25	BB	1450	G
25	BB	1462	C
25	BB	1466	U
25	BB	1468	U
25	BB	1470	A
25	BB	1473	G
25	BB	1474	U
25	BB	1477	A
25	BB	1485	U
25	BB	1497	U
25	BB	1499	C
25	BB	1514	G
25	BB	1529	G
25	BB	1543	G
25	BB	1558	C
25	BB	1567	G
25	BB	1568	G
25	BB	1575	C
25	BB	1580	A
25	BB	1583	A
25	BB	1588	G
25	BB	1616	A
25	BB	1618	A
25	BB	1625	C
25	BB	1640	A
25	BB	1641	A
25	BB	1643	G
25	BB	1648	U
25	BB	1654	A
25	BB	1655	A
25	BB	1656	C
25	BB	1658	C
25	BB	1662	U
25	BB	1663	G
25	BB	1668	A
25	BB	1669	A
25	BB	1680	U
25	BB	1681	G
25	BB	1688	U
25	BB	1693	U
25	BB	1698	A
25	BB	1699	G

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Mol	Chain	Res	Type
25	BB	1702	G
25	BB	1715	G
25	BB	1717	A
25	BB	1756	G
25	BB	1766	G
25	BB	1767	G
25	BB	1773	A
25	BB	1774	C
25	BB	1775	U
25	BB	1778	U
25	BB	1780	A
25	BB	1789	A
25	BB	1791	A
25	BB	1799	G
25	BB	1800	C
25	BB	1804	C
25	BB	1805	A
25	BB	1806	C
25	BB	1810	A
25	BB	1813	G
25	BB	1821	A
25	BB	1825	U
25	BB	1829	A
25	BB	1833	C
25	BB	1837	C
25	BB	1846	G
25	BB	1847	A
25	BB	1874	C
25	BB	1887	C
25	BB	1889	A
25	BB	1890	A
25	BB	1896	G
25	BB	1899	A
25	BB	1902	C
25	BB	1906	G
25	BB	1913	A
25	BB	1915	U
25	BB	1934	C
25	BB	1935	G
25	BB	1940	U
25	BB	1941	C
25	BB	1942	C

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Mol	Chain	Res	Type
25	BB	1952	A
25	BB	1953	A
25	BB	1954	G
25	BB	1962	C
25	BB	1970	A
25	BB	1972	G
25	BB	1980	G
25	BB	1981	A
25	BB	1989	G
25	BB	1994	C
25	BB	2010	G
25	BB	2012	G
25	BB	2013	A
25	BB	2022	U
25	BB	2026	U
25	BB	2034	U
25	BB	2043	C
25	BB	2045	C
25	BB	2050	C
25	BB	2052	A
25	BB	2053	G
25	BB	2056	G
25	BB	2061	G
25	BB	2064	C
25	BB	2066	C
25	BB	2067	G
25	BB	2070	A
25	BB	2074	U
25	BB	2079	U
25	BB	2092	U
25	BB	2095	A
25	BB	2113	U
25	BB	2117	A
25	BB	2125	G
25	BB	2126	A
25	BB	2131	U
25	BB	2139	U
25	BB	2147	A
25	BB	2162	G
25	BB	2172	U
25	BB	2197	U
25	BB	2199	A

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Mol	Chain	Res	Type
25	BB	2202	U
25	BB	2203	U
25	BB	2225	A
25	BB	2228	G
25	BB	2238	G
25	BB	2240	U
25	BB	2242	G
25	BB	2244	U
25	BB	2248	C
25	BB	2252	G
25	BB	2256	G
25	BB	2267	A
25	BB	2270	A
25	BB	2272	U
25	BB	2274	A
25	BB	2275	C
25	BB	2277	G
25	BB	2278	A
25	BB	2282	G
25	BB	2285	C
25	BB	2289	G
25	BB	2290	G
25	BB	2311	A
25	BB	2313	C
25	BB	2322	A
25	BB	2324	U
25	BB	2325	G
25	BB	2334	U
25	BB	2339	C
25	BB	2345	G
25	BB	2346	A
25	BB	2358	A
25	BB	2366	A
25	BB	2372	U
25	BB	2374	C
25	BB	2375	G
25	BB	2377	A
25	BB	2385	C
25	BB	2389	G
25	BB	2390	U
25	BB	2420	C
25	BB	2425	A

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Mol	Chain	Res	Type
25	BB	2431	U
25	BB	2439	A
25	BB	2443	C
25	BB	2444	G
25	BB	2445	G
25	BB	2446	G
25	BB	2448	A
25	BB	2452	C
25	BB	2455	G
25	BB	2457	U
25	BB	2460	U
25	BB	2467	C
25	BB	2471	A
25	BB	2478	A
25	BB	2480	C
25	BB	2489	U
25	BB	2491	U
25	BB	2492	U
25	BB	2495	G
25	BB	2496	C
25	BB	2497	A
25	BB	2498	C
25	BB	2501	C
25	BB	2502	G
25	BB	2503	A
25	BB	2506	U
25	BB	2507	C
25	BB	2536	G
25	BB	2538	C
25	BB	2541	A
25	BB	2543	G
25	BB	2554	U
25	BB	2556	C
25	BB	2562	U
25	BB	2564	A
25	BB	2565	A
25	BB	2570	G
25	BB	2571	U
25	BB	2575	C
25	BB	2576	G
25	BB	2577	A
25	BB	2579	C

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Mol	Chain	Res	Type
25	BB	2580	U
25	BB	2589	A
25	BB	2593	U
25	BB	2594	C
25	BB	2613	U
25	BB	2620	C
25	BB	2622	U
25	BB	2629	U
25	BB	2638	G
25	BB	2660	A
25	BB	2675	A
25	BB	2677	G
25	BB	2691	C
25	BB	2694	G
25	BB	2708	G
25	BB	2711	A
25	BB	2714	G
25	BB	2731	G
25	BB	2752	C
25	BB	2756	U
25	BB	2765	A
25	BB	2772	C
25	BB	2773	C
25	BB	2776	A
25	BB	2779	U
25	BB	2799	A
25	BB	2800	A
25	BB	2820	A
25	BB	2822	G
25	BB	2827	C
25	BB	2840	C
25	BB	2848	G
25	BB	2858	C
25	BB	2872	A
25	BB	2874	C
25	BB	2878	U
25	BB	2880	C
25	BB	2886	A
25	BB	2890	G
25	BB	2894	G

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
25	BB	1
1	AP	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	BB	1959:G	O3'	1960:A	P	3.49
1	AP	74:C	O3'	75:C	P	1.29

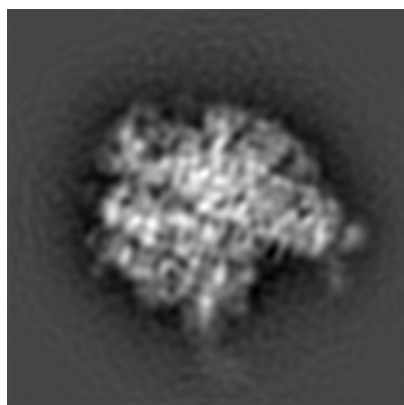
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-1056. These allow visual inspection of the internal detail of the map and identification of artifacts.

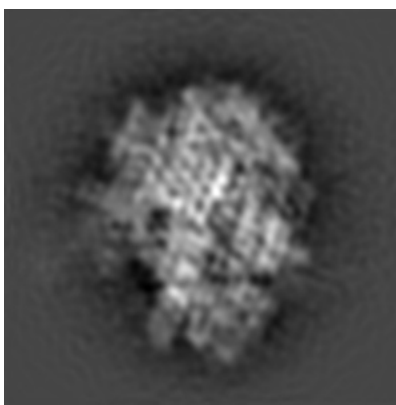
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

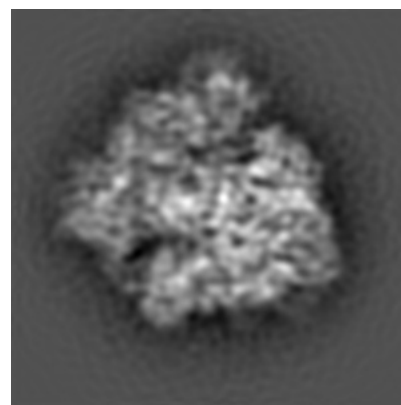
6.1.1 Primary map



X



Y

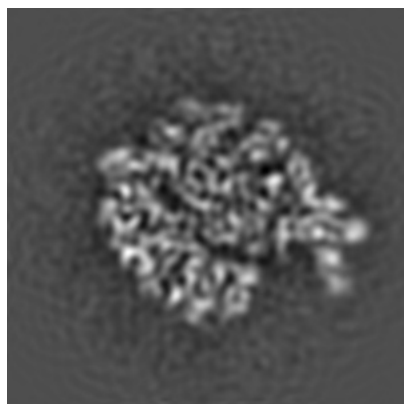


Z

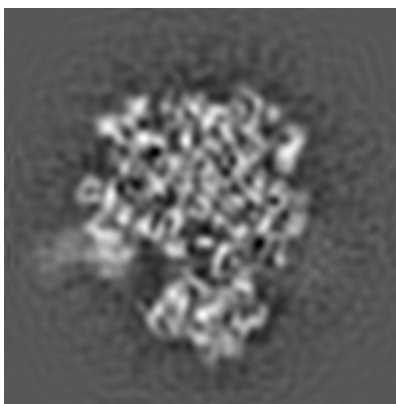
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

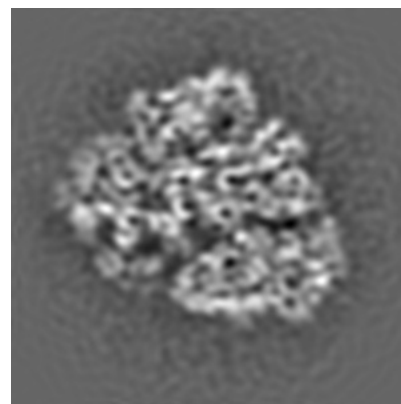
6.2.1 Primary map



X Index: 65



Y Index: 65

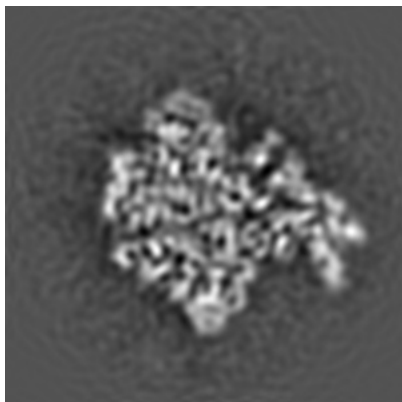


Z Index: 65

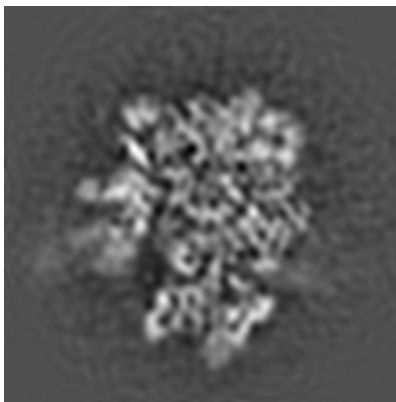
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

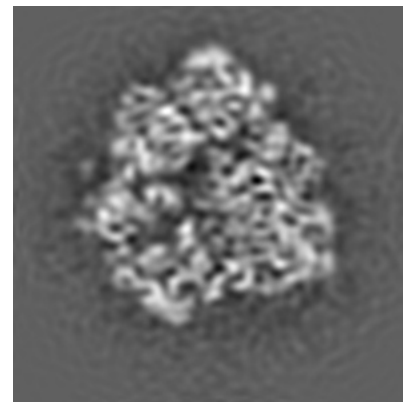
6.3.1 Primary map



X Index: 68



Y Index: 68

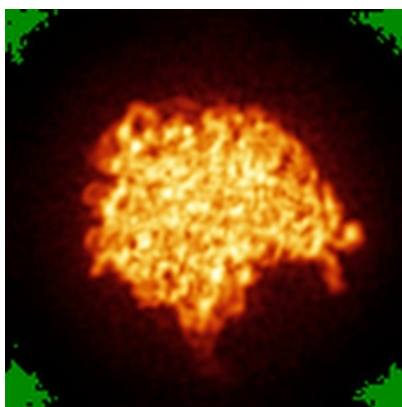


Z Index: 58

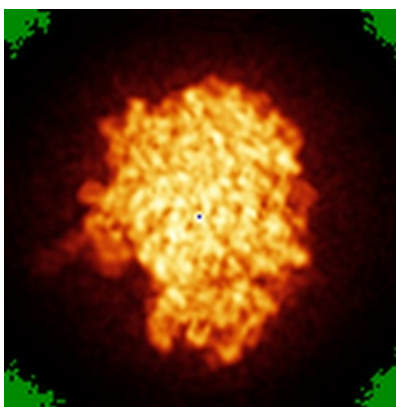
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

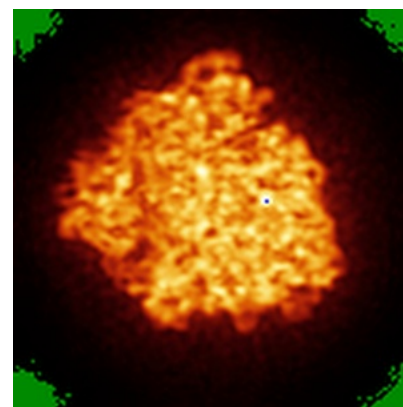
6.4.1 Primary map



X



Y

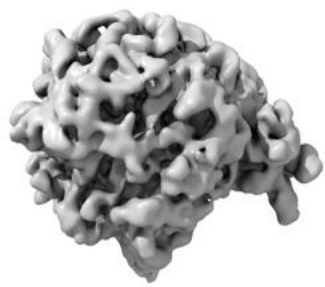


Z

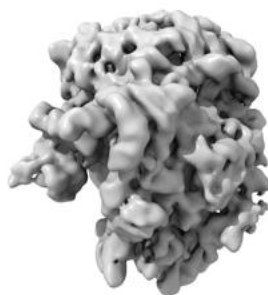
The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

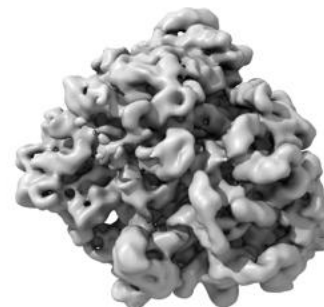
6.5.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 43.4. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

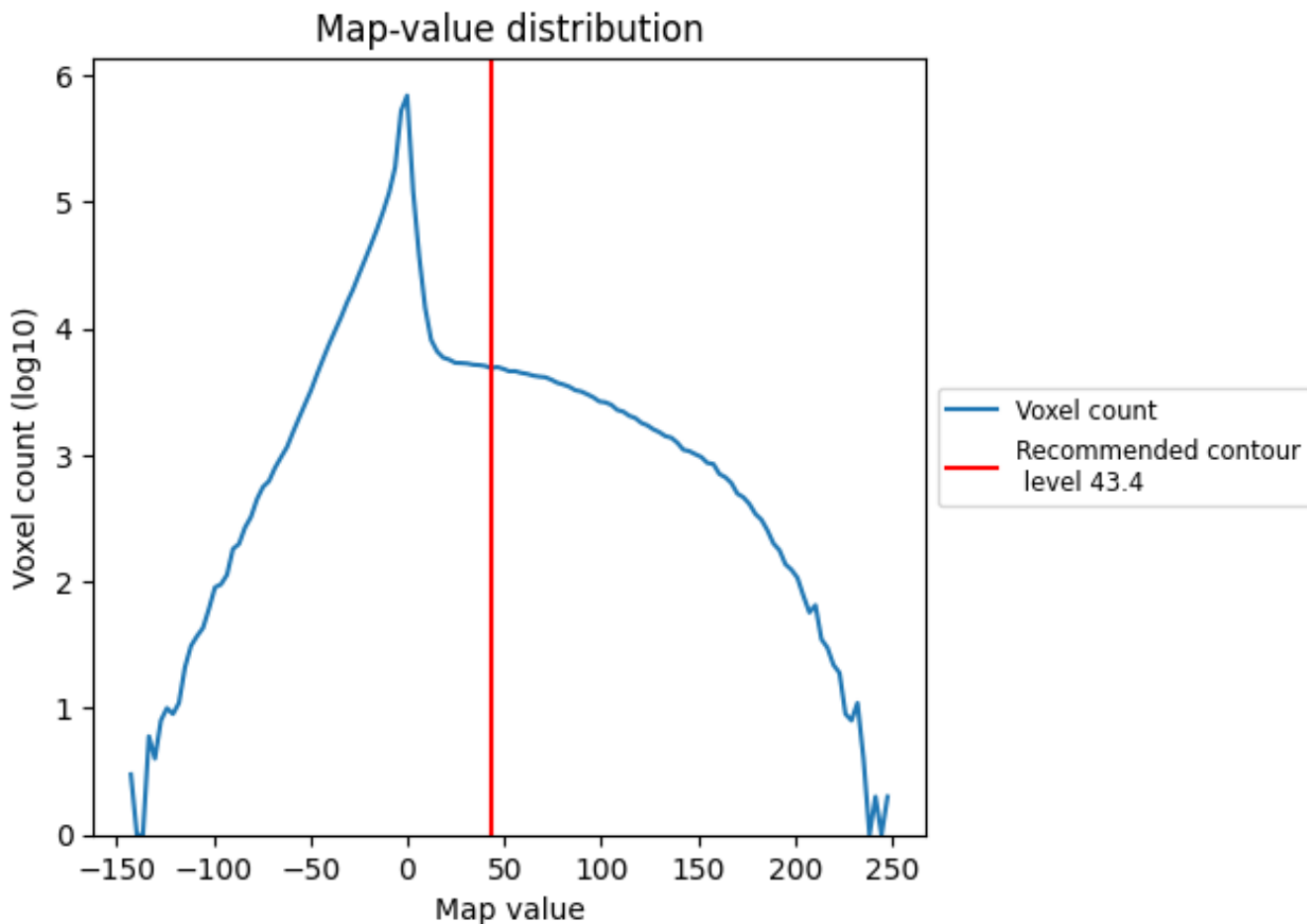
6.6 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

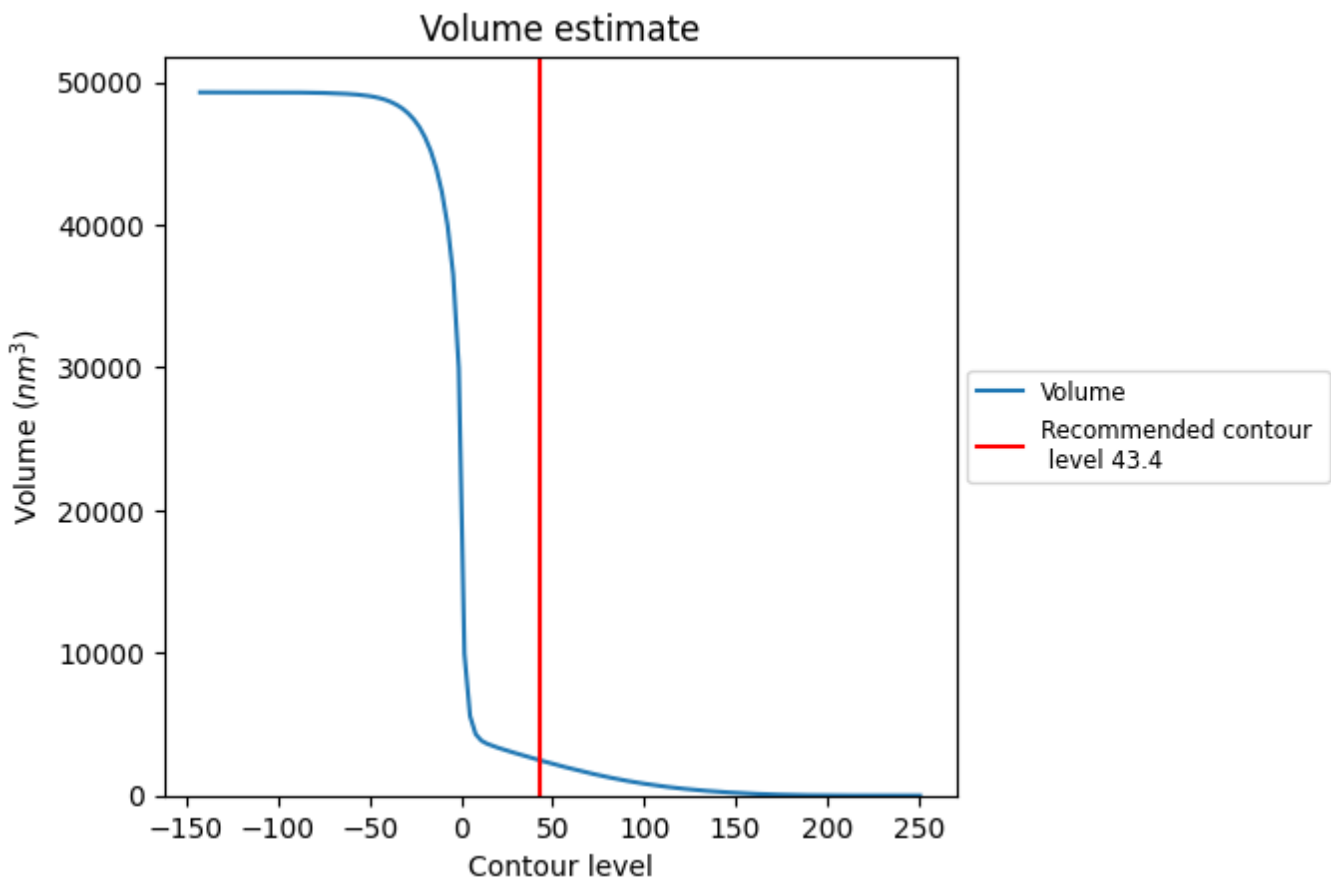
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

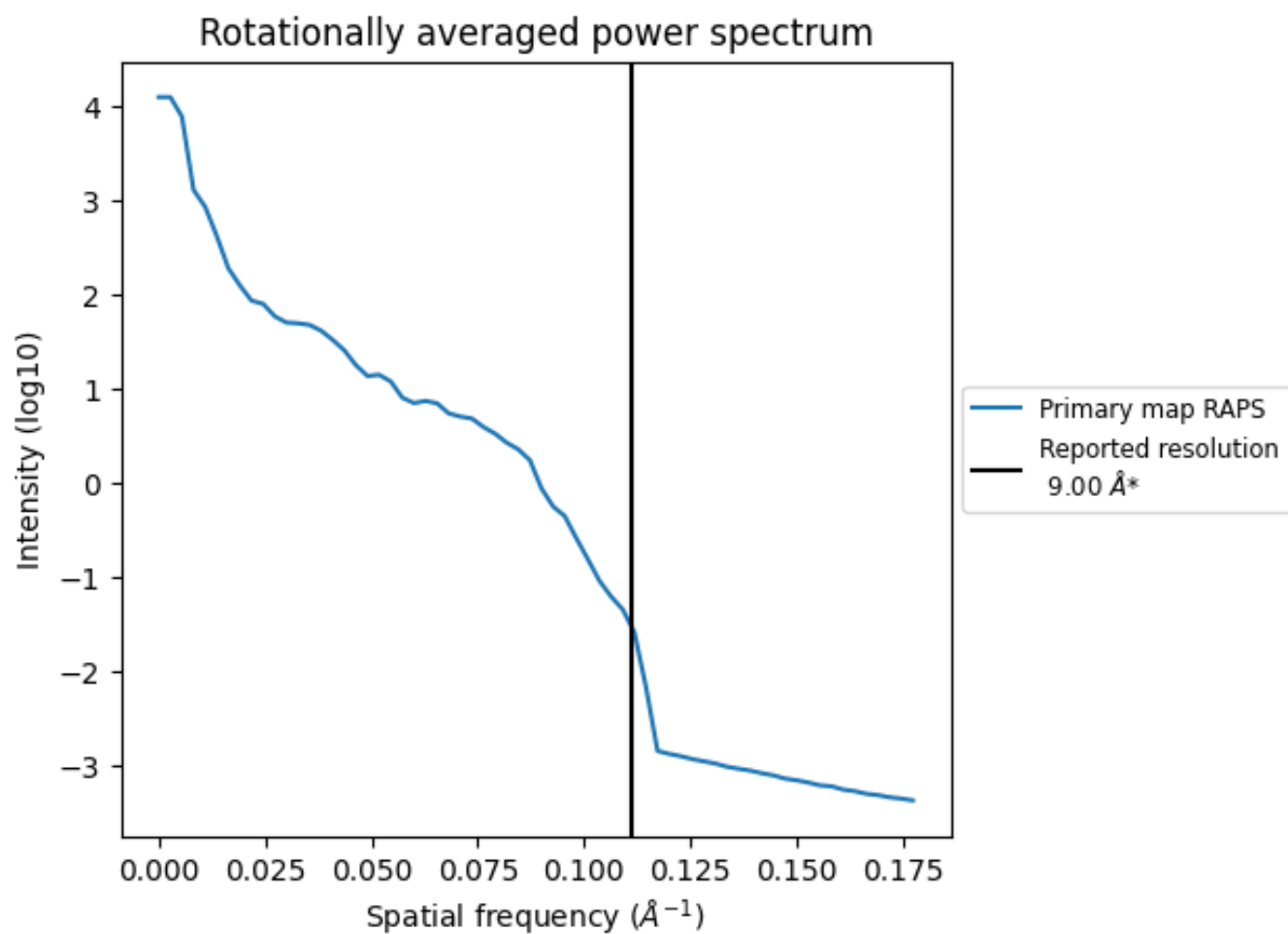
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 2462 nm³; this corresponds to an approximate mass of 2224 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum [i](#)



*Reported resolution corresponds to spatial frequency of 0.111 Å⁻¹

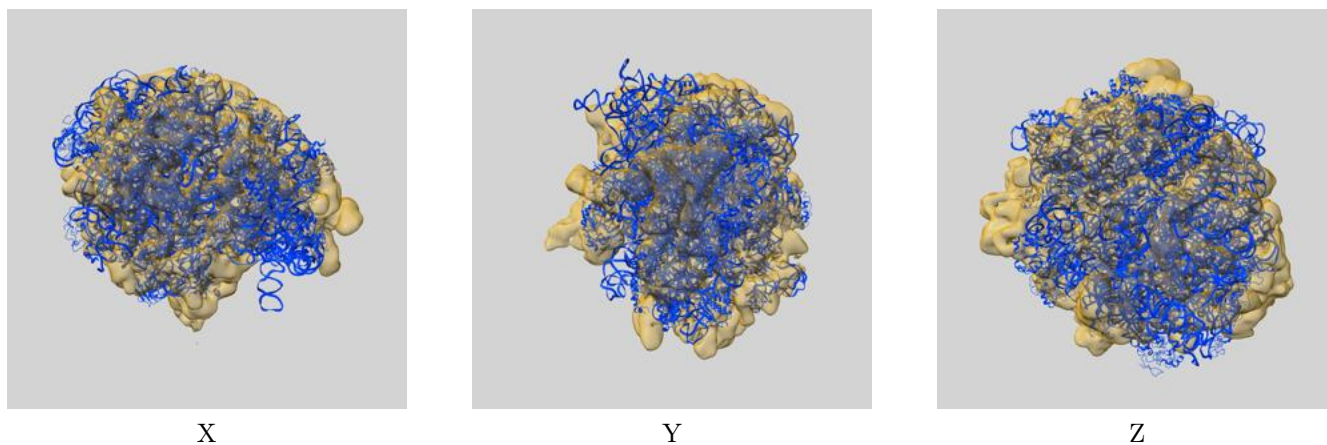
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit [i](#)

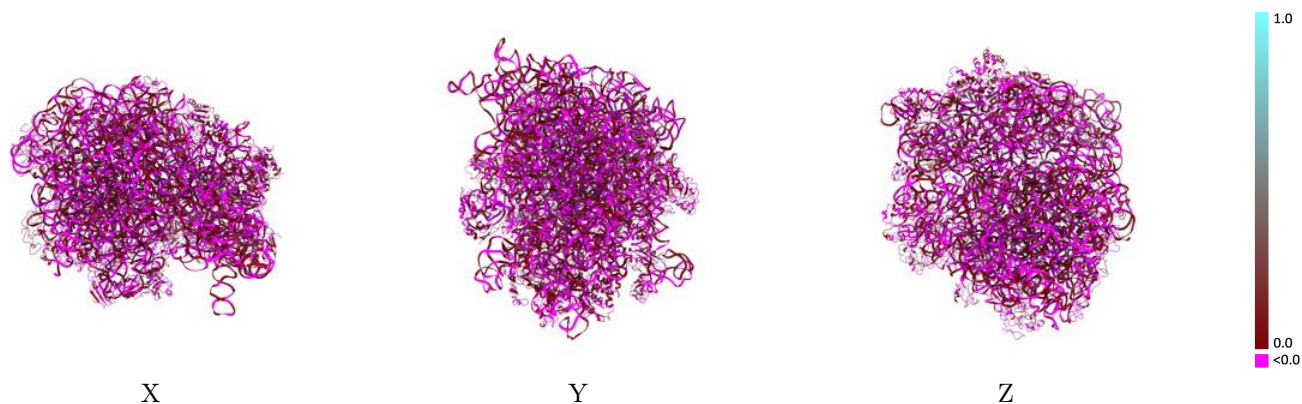
This section contains information regarding the fit between EMDB map EMD-1056 and PDB model 4V66. Per-residue inclusion information can be found in section 3 on page 14.

9.1 Map-model overlay [i](#)



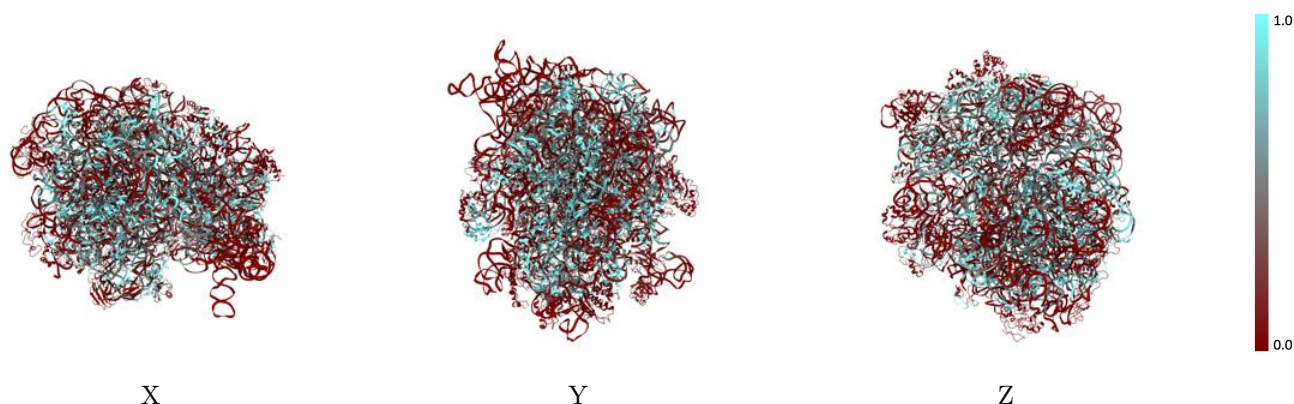
The images above show the 3D surface view of the map at the recommended contour level 43.4 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



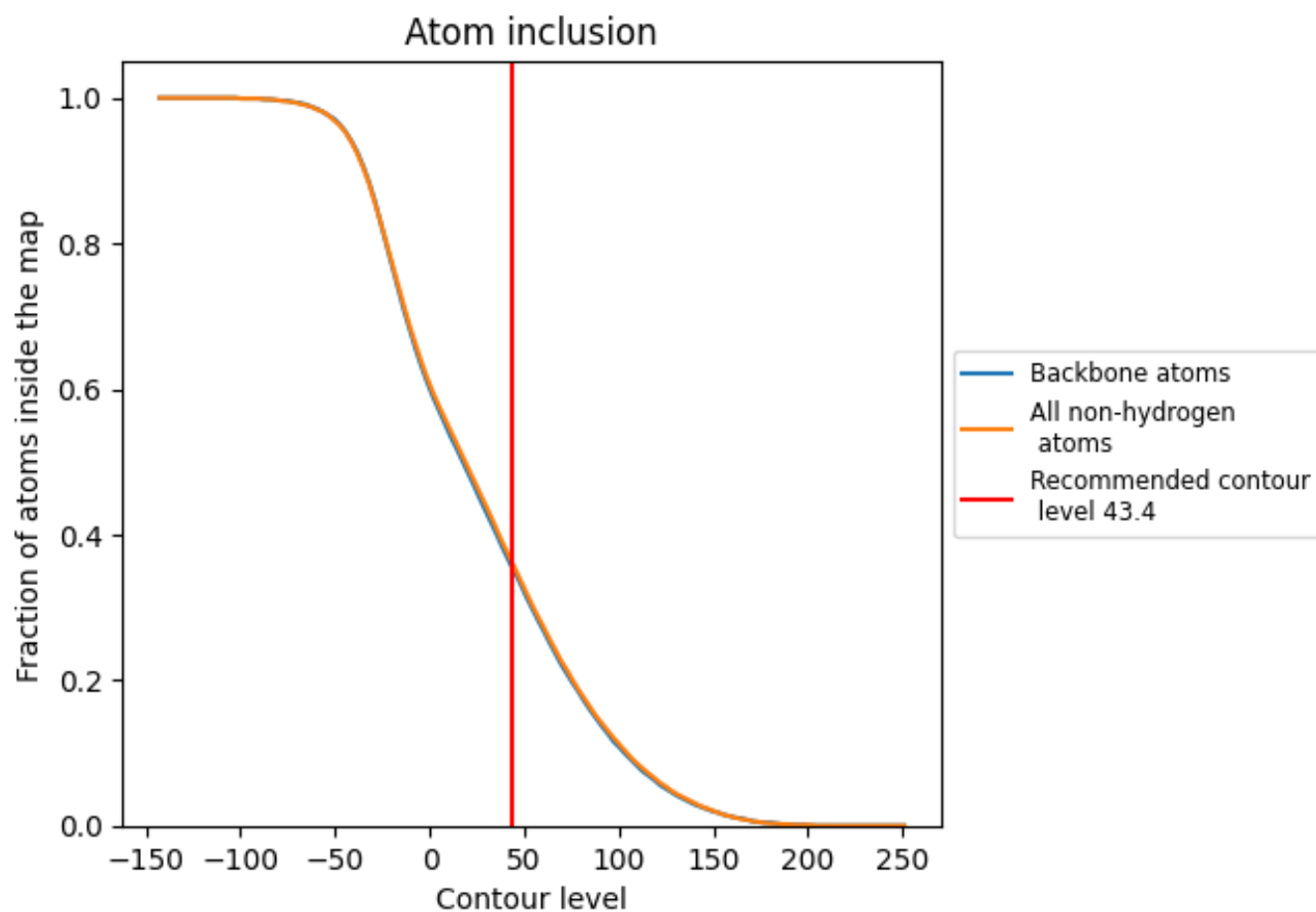
The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (43.4).

9.4 Atom inclusion [i](#)



At the recommended contour level, 36% of all backbone atoms, 36% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (43.4) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.3630	-0.0040
A1	0.3040	-0.0060
AA	0.3110	0.0030
AB	0.2260	-0.0120
AC	0.4430	0.0120
AD	0.2320	-0.0130
AE	0.4020	-0.0090
AF	0.4050	-0.0120
AG	0.1040	-0.0300
AH	0.1730	0.0060
AI	0.0000	-0.0250
AJ	0.2610	-0.0340
AK	0.6440	0.0240
AL	0.0370	-0.0070
AM	0.7100	0.0400
AN	0.4180	0.0020
AO	0.6430	0.0220
AP	0.3780	-0.0140
AQ	0.3890	-0.0540
AR	0.4320	-0.0070
AS	0.5970	-0.0040
AT	0.2310	0.0030
AU	0.5160	-0.0040
AV	0.4660	0.0180
AW	0.1320	0.0180
AX	0.2560	-0.0200
B1	0.2470	-0.0070
B2	0.6610	0.0260
B3	0.1920	-0.0360
B4	0.0750	-0.0060
B5	0.5770	-0.0120
B6	0.5010	0.0050
BA	0.3050	-0.0250
BB	0.4050	-0.0030
BC	0.2330	-0.0090



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Chain	Atom inclusion	Q-score
BD	0.3820	-0.0020
BE	0.3730	-0.0020
BF	0.3480	-0.0040
BG	0.5840	-0.0030
BH	0.4220	0.0030
BI	0.4100	-0.0180
BJ	0.1770	-0.0330
BK	0.0770	0.0020
BL	0.4600	0.0040
BM	0.2620	-0.0100
BN	0.3830	0.0020
BO	0.0010	-0.0340
BP	0.5960	0.0340
BQ	0.4780	0.0290
BR	0.4430	-0.0030
BS	0.2920	0.0010
BT	0.4890	-0.0090
BU	0.1710	-0.0080
BV	0.4440	0.0120
BW	0.2550	-0.0220
BX	0.2890	-0.0030
BY	0.5370	0.0070
BZ	0.0450	-0.0170