Full wwPDB EM Validation Report ⓘ

Nov 19, 2022 – 11:28 pm GMT

PDB ID	:	4V5X
EMDB ID	:	EMD-2210
Title	:	The cryo-EM structure of a 3D DNA-origami object
Authors	:	Bai, X.C.; Martin, T.G.; Scheres, S.H.W.; Dietz, H.
Deposited on	:	2012-10-09
Resolution	:	11.50 Å(reported)

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.dev43
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	1.9.9
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.31.2

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 11.50 Å.

There are no overall percentile quality scores available for this entry.

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 <=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	7249	29% 66% 6%
2	A0	55	18% 73% 9%
3	A1	44	18% 73% 9%
4	A2	50	14% 82%
5	A3	40	22% 78%
6	A4	48	19% 58% 21%
7	A5	48	12% 81% 6%
8	A6	50	22% 72% 6%
9	A7	48	81% 6% 10%
10	A8	48	31% 58% 10%
11	AB	40	10% 88%
12	AC	48	21% 73% 6%
13	AD	50	12% 84%
14	AE	46	7% 17% 61% 22%
15	AF	48	23% 69% 8%
16	AG	46	9% 85% 7%
17	AH	48	15% 81%

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Mol	Chain	Length	Quality of chain
18	AI	48	17% 79%
19	AJ	52	25% 67% 8%
20	AK	60	25% 65% 10%
21	AL	48	29% 63% 8%
22	AM	50	28% 70%
23	AN	48	15% 79% 6%
24	AO	48	25% 69% 6%
25	AP	40	15% 82%
26	AQ	57	11% 79% 11%
27	AR	63	14% 59% 24%
28	AS	64	8% 47% 6% 39%
29	AT	48	17% 75% 8%
30	AU	48	12% 81% 6%
31	AV	52	21% 69% 10%
32	AW	50	18% 24% 46% 30%
33	AX	48	15% 83%
34	AY	42	24% 5% 62% 10% 24%
35	AZ	54	11% 81% 7%
36	Ab	45	24% 71%
37	Ac	70	17% 59% 21%
38	Ad	48	25% 73%
39	Af	48	15% 83%
40	Ag	48	23% 75%
41	Ah	44	30% 64% 7%
42	Ai	46	9% 67% 22%

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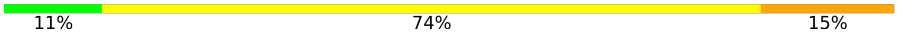
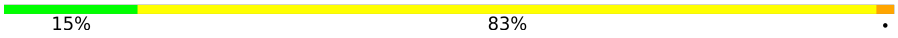
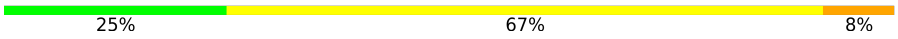
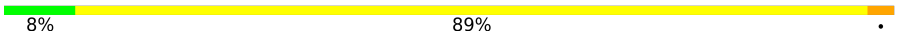
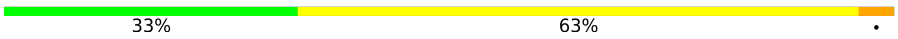
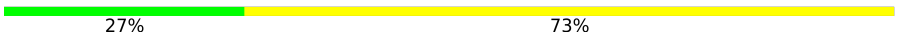
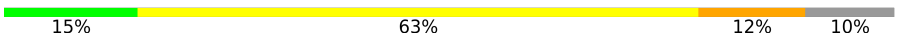
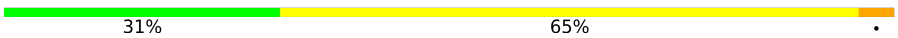
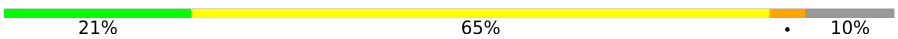
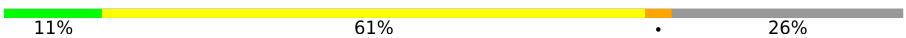
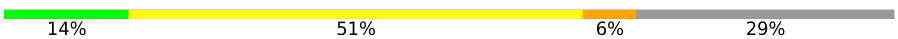
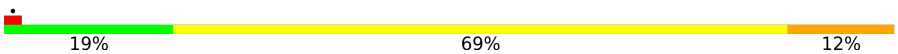
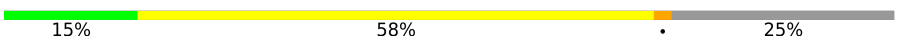
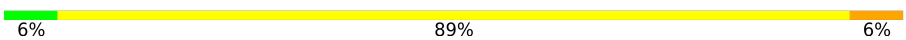
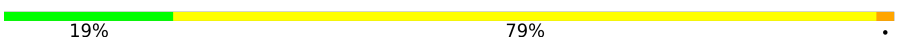
Mol	Chain	Length	Quality of chain
43	Aj	62	
44	Ak	46	
45	Al	48	
46	Am	48	
47	An	48	
48	Ao	36	
49	As	48	
50	Au	48	
51	Av	48	
52	Aw	48	
53	Ax	52	
54	Ay	38	
55	Az	51	
56	B0	48	
57	B1	59	
58	B2	36	
59	B3	48	
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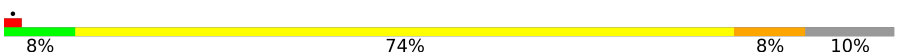
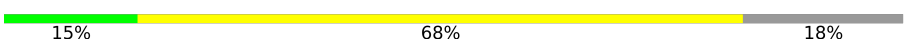
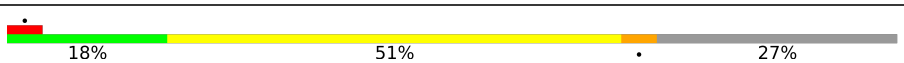
61	B5	40	
62	B6	50	
63	B7	44	
64	B8	40	
65	B9	55	
66	BB	48	
67	BC	44	

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Mol	Chain	Length	Quality of chain
68	BD	35	11% 77% 11%
69	BE	68	13% 68% 15%
70	BF	40	35% 60% 5%
71	BG	49	10% 78% 12%
72	BH	42	12% 10% 62% 5% 24%
73	BI	42	17% 43% 5% 36%
74	BJ	58	14% 72% 5% 9%
75	BK	44	18% 80%
76	BL	48	21% 69% 10%
77	BM	52	17% 63% 19%
78	BN	63	17% 57% 24%
79	BO	49	29% 61% 10%
80	BP	66	15% 44% 38%
81	BQ	48	23% 73%
82	BR	64	12% 41% 44%
83	BS	48	21% 71% 8%
84	BT	52	13% 52% 6% 29%
85	BU	55	27% 44% 27%
86	BV	44	25% 70% 5%
87	BW	53	9% 23% 53% 6% 19%
88	BX	48	29% 56% 15%
89	BY	48	15% 71% 10%
90	BZ	66	12% 52% 35%
91	Ba	48	25% 71%
92	Bb	68	6% 9% 60% 29%

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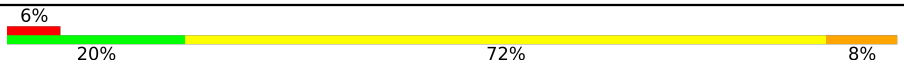
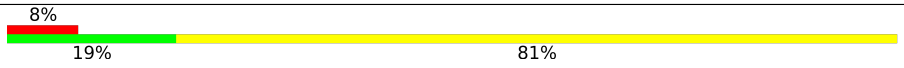
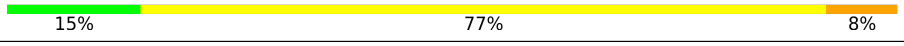
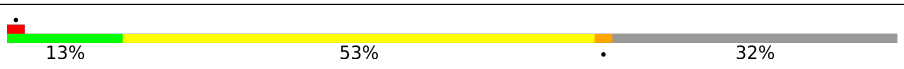
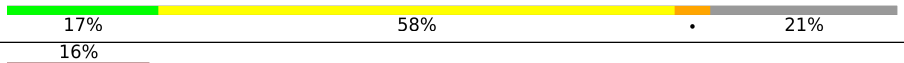
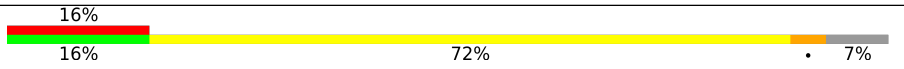
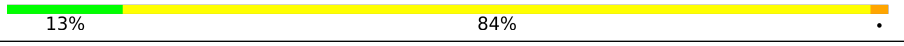
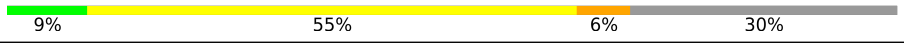
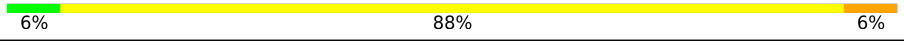
Mol	Chain	Length	Quality of chain
93	Bc	50	
94	Bd	56	
95	Be	48	
96	Bf	48	
97	Bg	47	
98	Bh	48	
99	Bi	67	
100	Bj	45	
101	Bk	67	
102	Bl	48	
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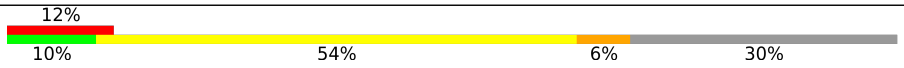
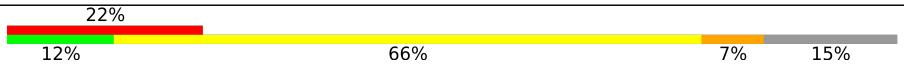
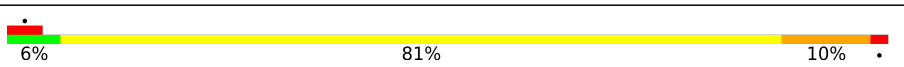
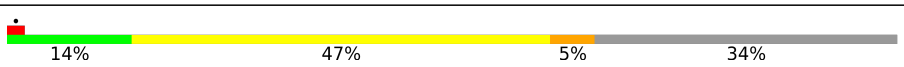
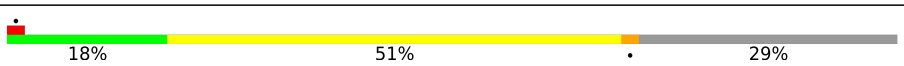
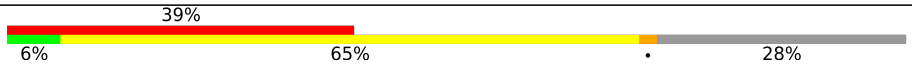
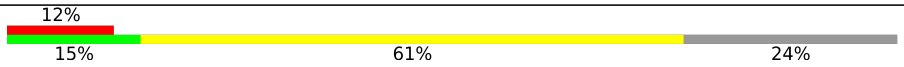
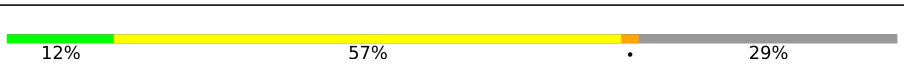
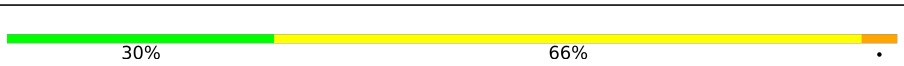
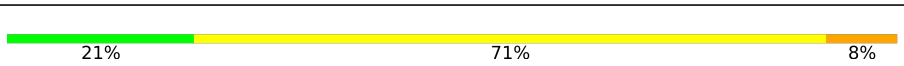
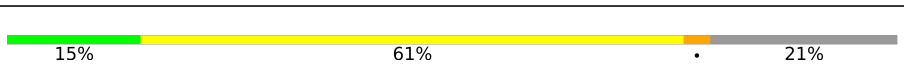
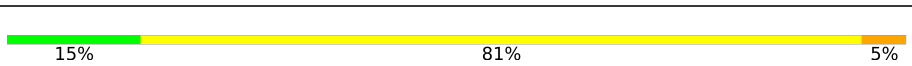
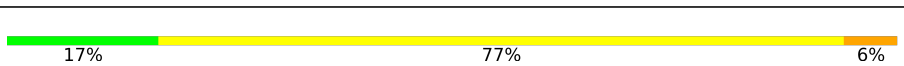
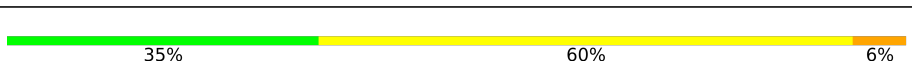
104	Bn	67	
105	Bo	67	
106	Bp	48	
107	Bq	58	
108	Br	51	
109	Bs	54	
110	C0	41	
111	C1	51	
112	C2	56	
113	C3	48	
114	C4	71	
115	C5	62	
116	C6	48	
117	C7	52	

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Mol	Chain	Length	Quality of chain
118	C8	44	27% 66% 7%
119	CB	54	33% 61% 6%
120	CC	47	21% 72% 6%
121	CD	48	19% 75% 6%
122	CE	40	18% 78% 5%
123	CF	40	22% 75%
124	CG	44	25% 66% 9%
125	CH	48	29% 63% 8%
126	CI	44	18% 73% 9%
127	CJ	59	15% 58% 7% 20%
128	CK	48	17% 75% 8%
129	CL	48	25% 67% 8%
130	CM	54	26% 9% 63% 28%
131	CN	41	7% 22% 76%
132	CO	48	31% 54% 15%
133	CP	56	20% 73% 7%
134	CQ	38	16% 55% 26%
135	CR	48	27% 73%
136	CS	48	19% 54% 6% 21%
137	CT	48	15% 79% 6%
138	CU	32	19% 78%
139	CV	53	32% 62% 6%
140	CW	38	18% 47% 8% 26%
141	CX	47	21% 72% 6%
142	CY	43	19% 81%

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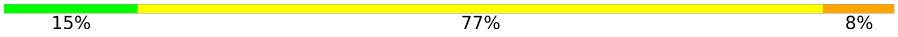
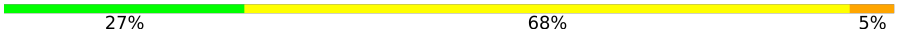
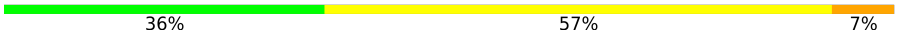
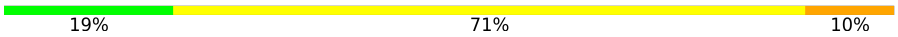
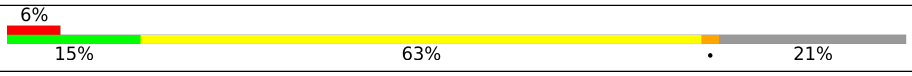
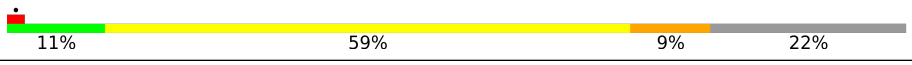
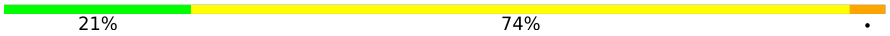
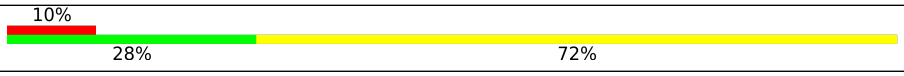
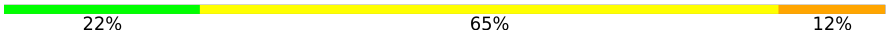
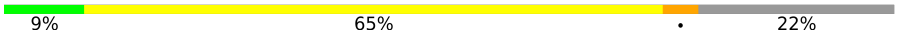
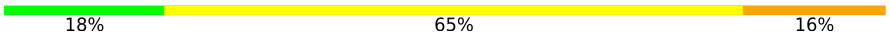
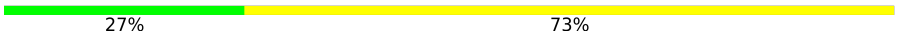
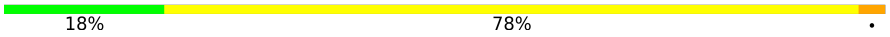
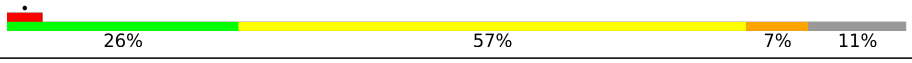
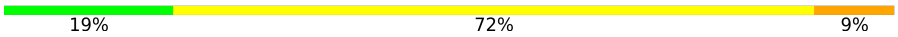
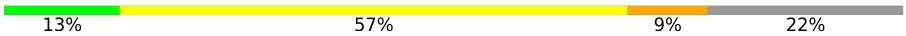
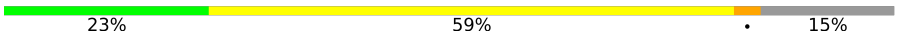
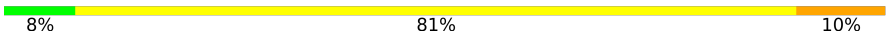
Mol	Chain	Length	Quality of chain
143	CZ	48	
144	Cb	44	
145	Cc	62	
146	Cd	42	
147	Ce	52	
148	Cf	48	
149	Cg	46	
150	Ch	47	
151	Ck	29	
152	Cp	48	
153	Cq	40	
154	Cr	46	
155	Cs	49	
156	Ct	44	
157	Cu	60	
158	Cv	46	
159	Cw	54	
160	Cx	46	
161	Cy	66	
162	Cz	48	

2 Entry composition

There are 162 unique types of molecules in this entry. The entry contains 294953 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 DNA chain called SCAFFOLD STRAND,SCAFFOLD STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
1	AA	7249	147963	70960	25928	43933	7142	0	0

- Molecule 2 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
2	A0	55	1116	543	222	303	48	0	0

- Molecule 3 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
3	A1	44	884	433	167	247	37	0	0

- Molecule 4 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
4	A2	50	1019	494	214	267	44	0	0

- Molecule 5 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
5	A3	40	796	390	144	228	34	0	0

- Molecule 6 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	P		
6	A4	38	780	377	151	216	36	0	0

- Molecule 7 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	A5	48	Total 971	C 469	N 194	O 265	P 43	0	0

- Molecule 8 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	A6	50	Total 1016	C 493	N 194	O 284	P 45	0	0

- Molecule 9 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	A7	43	Total 863	C 412	N 176	O 236	P 39	0	0

- Molecule 10 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	A8	48	Total 976	C 476	N 181	O 277	P 42	0	0

- Molecule 11 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	AB	40	Total 799	C 382	N 152	O 228	P 37	0	0

- Molecule 12 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	AC	48	Total 993	C 475	N 200	O 274	P 44	0	0

- Molecule 13 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	AD	50	Total 1018	C 485	N 202	O 284	P 47	0	0

- Molecule 14 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	AE	36	Total 734	C 354	N 135	O 211	P 34	0	0

- Molecule 15 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	AF	48	Total 969	C 467	N 169	O 287	P 46	0	0

- Molecule 16 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	AG	46	Total 939	C 447	N 192	O 257	P 43	0	0

- Molecule 17 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	AH	48	Total 964	C 463	N 179	O 277	P 45	0	0

- Molecule 18 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
18	AI	48	Total 967	C 470	N 193	O 263	P 41	0	0

- Molecule 19 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	AJ	52	Total 1059	C 512	N 202	O 297	P 48	0	0

- Molecule 20 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	AK	60	Total 1202	C 588	N 219	O 344	P 51	0	0

- Molecule 21 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	AL	48	Total	C	N	O	P	0	0
			971	470	169	287	45		

- Molecule 22 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	AM	50	Total	C	N	O	P	0	0
			993	486	177	287	43		

- Molecule 23 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	AN	48	Total	C	N	O	P	0	0
			968	465	183	276	44		

- Molecule 24 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	AO	48	Total	C	N	O	P	0	0
			962	466	173	279	44		

- Molecule 25 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	AP	40	Total	C	N	O	P	0	0
			802	388	149	229	36		

- Molecule 26 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	AQ	57	Total	C	N	O	P	0	0
			1160	556	233	321	50		

- Molecule 27 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
27	AR	48	Total	C	N	O	P	0	0
			975	470	187	274	44		

- Molecule 28 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	AS	39	Total 794	C 383	N 169	O 208	P 34	0	0

- Molecule 29 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	AT	48	Total 973	C 470	N 190	O 271	P 42	0	0

- Molecule 30 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	AU	48	Total 967	C 470	N 193	O 263	P 41	0	0

- Molecule 31 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	AV	52	Total 1051	C 510	N 201	O 294	P 46	0	0

- Molecule 32 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	AW	35	Total 701	C 342	N 120	O 206	P 33	0	0

- Molecule 33 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	AX	48	Total 959	C 465	N 186	O 266	P 42	0	0

- Molecule 34 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
34	AY	32	Total 645	C 309	N 126	O 181	P 29	0	0

- Molecule 35 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
35	AZ	54	Total	C	N	O	P	0	0
			1082	524	208	303	47		

- Molecule 36 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
36	Ab	45	Total	C	N	O	P	0	0
			907	440	169	258	40		

- Molecule 37 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
37	Ac	55	Total	C	N	O	P	0	0
			1115	542	220	305	48		

- Molecule 38 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
38	Ad	48	Total	C	N	O	P	0	0
			958	468	171	277	42		

- Molecule 39 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
39	Af	48	Total	C	N	O	P	0	0
			964	468	192	262	42		

- Molecule 40 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
40	Ag	48	Total	C	N	O	P	0	0
			979	470	187	278	44		

- Molecule 41 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
41	Ah	44	Total	C	N	O	P	0	0
			872	427	149	257	39		

- Molecule 42 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
42	Ai	36	Total	C	N	O	P	0	0
			722	348	141	201	32		

- Molecule 43 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
43	Aj	62	Total	C	N	O	P	0	0
			1257	610	248	344	55		

- Molecule 44 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
44	Ak	46	Total	C	N	O	P	0	0
			946	454	197	255	40		

- Molecule 45 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
45	Al	48	Total	C	N	O	P	0	0
			949	467	163	278	41		

- Molecule 46 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
46	Am	48	Total	C	N	O	P	0	0
			963	466	182	273	42		

- Molecule 47 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
47	An	48	Total	C	N	O	P	0	0
			972	469	179	280	44		

- Molecule 48 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
48	Ao	36	Total	C	N	O	P	0	0
			724	349	140	204	31		

- Molecule 49 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
49	As	48	Total 971	C 476	N 172	O 281	P 42	0	0

- Molecule 50 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
50	Au	48	Total 963	C 468	N 168	O 283	P 44	0	0

- Molecule 51 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
51	Av	43	Total 869	C 419	N 172	O 240	P 38	0	0

- Molecule 52 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
52	Aw	48	Total 960	C 470	N 172	O 276	P 42	0	0

- Molecule 53 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
53	Ax	47	Total 953	C 460	N 176	O 274	P 43	0	0

- Molecule 54 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
54	Ay	28	Total 568	C 275	N 112	O 156	P 25	0	0

- Molecule 55 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
55	Az	36	Total 737	C 355	N 146	O 204	P 32	0	0

- Molecule 56 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
56	B0	48	Total 977	C 467	N 184	O 282	P 44	0	0

- Molecule 57 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
57	B1	44	Total 900	C 434	N 181	O 245	P 40	0	0

- Molecule 58 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
58	B2	36	Total 734	C 350	N 148	O 203	P 33	0	0

- Molecule 59 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
59	B3	48	Total 976	C 469	N 182	O 280	P 45	0	0

- Molecule 60 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
60	B4	33	Total 664	C 320	N 130	O 184	P 30	0	0

- Molecule 61 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
61	B5	40	Total 816	C 392	N 160	O 227	P 37	0	0

- Molecule 62 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
62	B6	45	Total 929	C 443	N 187	O 256	P 43	0	0

- Molecule 63 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
63	B7	44	Total	C	N	O	P	0	0
			892	432	153	266	41		

- Molecule 64 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
64	B8	33	Total	C	N	O	P	0	0
			653	315	120	187	31		

- Molecule 65 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
65	B9	40	Total	C	N	O	P	0	0
			810	393	150	231	36		

- Molecule 66 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
66	BB	48	Total	C	N	O	P	0	0
			982	469	191	276	46		

- Molecule 67 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
67	BC	39	Total	C	N	O	P	0	0
			798	385	152	224	37		

- Molecule 68 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
68	BD	35	Total	C	N	O	P	0	0
			727	344	151	199	33		

- Molecule 69 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
69	BE	58	Total	C	N	O	P	0	0
			1183	569	229	331	54		

- Molecule 70 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
70	BF	40	Total	C	N	O	P	0	0
			810	395	142	236	37		

- Molecule 71 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
71	BG	49	Total	C	N	O	P	0	0
			1007	481	203	277	46		

- Molecule 72 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
72	BH	32	Total	C	N	O	P	0	0
			644	312	123	180	29		

- Molecule 73 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
73	BI	27	Total	C	N	O	P	0	0
			544	265	98	156	25		

- Molecule 74 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
74	BJ	53	Total	C	N	O	P	0	0
			1076	517	200	310	49		

- Molecule 75 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
75	BK	44	Total	C	N	O	P	0	0
			894	433	176	245	40		

- Molecule 76 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
76	BL	48	Total	C	N	O	P	0	0
			966	467	172	283	44		

- Molecule 77 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
77	BM	42	Total	C	N	O	P	0	0
			855	413	160	243	39		

- Molecule 78 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
78	BN	48	Total	C	N	O	P	0	0
			970	468	177	280	45		

- Molecule 79 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
79	BO	49	Total	C	N	O	P	0	0
			984	477	168	293	46		

- Molecule 80 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
80	BP	41	Total	C	N	O	P	0	0
			824	399	147	240	38		

- Molecule 81 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
81	BQ	48	Total	C	N	O	P	0	0
			971	467	175	283	46		

- Molecule 82 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
82	BR	36	Total	C	N	O	P	0	0
			733	356	139	206	32		

- Molecule 83 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
83	BS	48	Total	C	N	O	P	0	0
			967	465	177	281	44		

- Molecule 84 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
84	BT	37	Total 753	C 361	N 137	O 220	P 35	0	0

- Molecule 85 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
85	BU	40	Total 813	C 395	N 145	O 237	P 36	0	0

- Molecule 86 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
86	BV	44	Total 895	C 430	N 161	O 261	P 43	0	0

- Molecule 87 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
87	BW	43	Total 874	C 421	N 158	O 254	P 41	0	0

- Molecule 88 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
88	BX	48	Total 991	C 478	N 191	O 278	P 44	0	0

- Molecule 89 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
89	BY	43	Total 871	C 421	N 161	O 249	P 40	0	0

- Molecule 90 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
90	BZ	43	Total 870	C 419	N 166	O 245	P 40	0	0

- Molecule 91 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
91	Ba	48	Total	C	N	O	P	0	0
			972	469	173	286	44		

- Molecule 92 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
92	Bb	48	Total	C	N	O	P	0	0
			974	466	191	273	44		

- Molecule 93 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
93	Bc	50	Total	C	N	O	P	0	0
			1015	487	185	297	46		

- Molecule 94 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
94	Bd	41	Total	C	N	O	P	0	0
			836	400	155	242	39		

- Molecule 95 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
95	Be	48	Total	C	N	O	P	0	0
			978	468	183	282	45		

- Molecule 96 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
96	Bf	48	Total	C	N	O	P	0	0
			981	468	192	277	44		

- Molecule 97 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
97	Bg	32	Total	C	N	O	P	0	0
			646	312	120	185	29		

- Molecule 98 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
98	Bh	38	Total 784	C 375	N 147	O 226	P 36	0	0

- Molecule 99 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
99	Bi	62	Total 1255	C 604	N 233	O 360	P 58	0	0

- Molecule 100 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
100	Bj	45	Total 907	C 436	N 170	O 259	P 42	0	0

- Molecule 101 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
101	Bk	47	Total 964	C 461	N 193	O 266	P 44	0	0

- Molecule 102 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
102	Bl	48	Total 986	C 468	N 201	O 272	P 45	0	0

- Molecule 103 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
103	Bm	48	Total 964	C 466	N 176	O 278	P 44	0	0

- Molecule 104 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
104	Bn	47	Total 975	C 461	N 190	O 279	P 45	0	0

- Molecule 105 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
105	Bo	57	Total	C	N	O	P	0	0
			1154	553	215	333	53		

- Molecule 106 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
106	Bp	48	Total	C	N	O	P	0	0
			985	468	198	274	45		

- Molecule 107 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
107	Bq	38	Total	C	N	O	P	0	0
			784	377	154	219	34		

- Molecule 108 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
108	Br	36	Total	C	N	O	P	0	0
			732	352	131	216	33		

- Molecule 109 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
109	Bs	39	Total	C	N	O	P	0	0
			800	380	166	218	36		

- Molecule 110 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
110	C0	31	Total	C	N	O	P	0	0
			632	303	120	180	29		

- Molecule 111 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
111	C1	36	Total	C	N	O	P	0	0
			732	354	147	198	33		

- Molecule 112 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
112	C2	56	Total	C	N	O	P	0	0
			1125	549	207	319	50		

- Molecule 113 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
113	C3	48	Total	C	N	O	P	0	0
			962	466	179	273	44		

- Molecule 114 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
114	C4	56	Total	C	N	O	P	0	0
			1133	548	208	325	52		

- Molecule 115 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
115	C5	62	Total	C	N	O	P	0	0
			1275	610	245	361	59		

- Molecule 116 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
116	C6	48	Total	C	N	O	P	0	0
			977	472	191	271	43		

- Molecule 117 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
117	C7	52	Total	C	N	O	P	0	0
			1056	515	184	309	48		

- Molecule 118 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
118	C8	44	Total	C	N	O	P	0	0
			892	433	164	256	39		

- Molecule 119 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
119	CB	54	Total	C	N	O	P	0	0
			1088	528	189	321	50		

- Molecule 120 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
120	CC	47	Total	C	N	O	P	0	0
			963	462	186	271	44		

- Molecule 121 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
121	CD	48	Total	C	N	O	P	0	0
			984	473	193	274	44		

- Molecule 122 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
122	CE	40	Total	C	N	O	P	0	0
			816	395	160	225	36		

- Molecule 123 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
123	CF	40	Total	C	N	O	P	0	0
			811	393	150	232	36		

- Molecule 124 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
124	CG	44	Total	C	N	O	P	0	0
			904	433	167	263	41		

- Molecule 125 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
125	CH	48	Total	C	N	O	P	0	0
			987	474	183	285	45		

- Molecule 126 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
126	CI	44	Total 889	C 430	N 170	O 250	P 39	0	0

- Molecule 127 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
127	CJ	47	Total 946	C 459	N 183	O 262	P 42	0	0

- Molecule 128 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
128	CK	48	Total 981	C 473	N 196	O 269	P 43	0	0

- Molecule 129 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
129	CL	48	Total 967	C 472	N 179	O 274	P 42	0	0

- Molecule 130 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
130	CM	39	Total 801	C 383	N 163	O 218	P 37	0	0

- Molecule 131 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
131	CN	41	Total 848	C 406	N 164	O 238	P 40	0	0

- Molecule 132 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
132	CO	48	Total 975	C 474	N 180	O 278	P 43	0	0

- Molecule 133 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
133	CP	56	Total	C	N	O	P	0	0
			1140	546	213	327	54		

- Molecule 134 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
134	CQ	28	Total	C	N	O	P	0	0
			557	273	105	155	24		

- Molecule 135 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
135	CR	48	Total	C	N	O	P	0	0
			969	469	170	284	46		

- Molecule 136 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
136	CS	38	Total	C	N	O	P	0	0
			773	374	145	219	35		

- Molecule 137 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
137	CT	48	Total	C	N	O	P	0	0
			982	474	189	276	43		

- Molecule 138 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
138	CU	32	Total	C	N	O	P	0	0
			648	312	123	182	31		

- Molecule 139 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
139	CV	53	Total	C	N	O	P	0	0
			1067	520	188	311	48		

- Molecule 140 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
140	CW	28	Total	C	N	O	P	0	0
			564	276	99	165	24		

- Molecule 141 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
141	CX	47	Total	C	N	O	P	0	0
			944	455	175	272	42		

- Molecule 142 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
142	CY	43	Total	C	N	O	P	0	0
			870	422	175	234	39		

- Molecule 143 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
143	CZ	48	Total	C	N	O	P	0	0
			987	474	201	267	45		

- Molecule 144 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
144	Cb	44	Total	C	N	O	P	0	0
			891	435	171	247	38		

- Molecule 145 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
145	Cc	52	Total	C	N	O	P	0	0
			1048	508	200	294	46		

- Molecule 146 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
146	Cd	42	Total	C	N	O	P	0	0
			859	417	159	243	40		

- Molecule 147 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
147	Ce	52	Total	C	N	O	P	0	0
			1049	509	199	295	46		

- Molecule 148 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
148	Cf	38	Total	C	N	O	P	0	0
			768	373	152	210	33		

- Molecule 149 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
149	Cg	36	Total	C	N	O	P	0	0
			735	354	150	199	32		

- Molecule 150 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
150	Ch	47	Total	C	N	O	P	0	0
			938	453	174	269	42		

- Molecule 151 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
151	Ck	29	Total	C	N	O	P	0	0
			585	284	100	174	27		

- Molecule 152 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
152	Cp	48	Total	C	N	O	P	0	0
			976	471	189	273	43		

- Molecule 153 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
153	Cq	40	Total	C	N	O	P	0	0
			827	395	157	236	39		

- Molecule 154 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
154	Cr	36	Total	C	N	O	P	0	0
			727	350	145	200	32		

- Molecule 155 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
155	Cs	49	Total	C	N	O	P	0	0
			1012	486	204	277	45		

- Molecule 156 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
156	Ct	44	Total	C	N	O	P	0	0
			886	432	159	255	40		

- Molecule 157 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
157	Cu	60	Total	C	N	O	P	0	0
			1216	589	239	334	54		

- Molecule 158 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
158	Cv	41	Total	C	N	O	P	0	0
			823	402	141	243	37		

- Molecule 159 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
159	Cw	54	Total	C	N	O	P	0	0
			1098	528	213	308	49		

- Molecule 160 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
160	Cx	36	Total	C	N	O	P	0	0
			730	353	145	200	32		

- Molecule 161 is a DNA chain called STAPLE STRAND.

Mol	Chain	Residues	Atoms					AltConf	Trace
161	Cy	56	Total	C	N	O	P	0	0
			1145	554	223	318	50		

- Molecule 162 is a DNA chain called STAPLE STRAND.

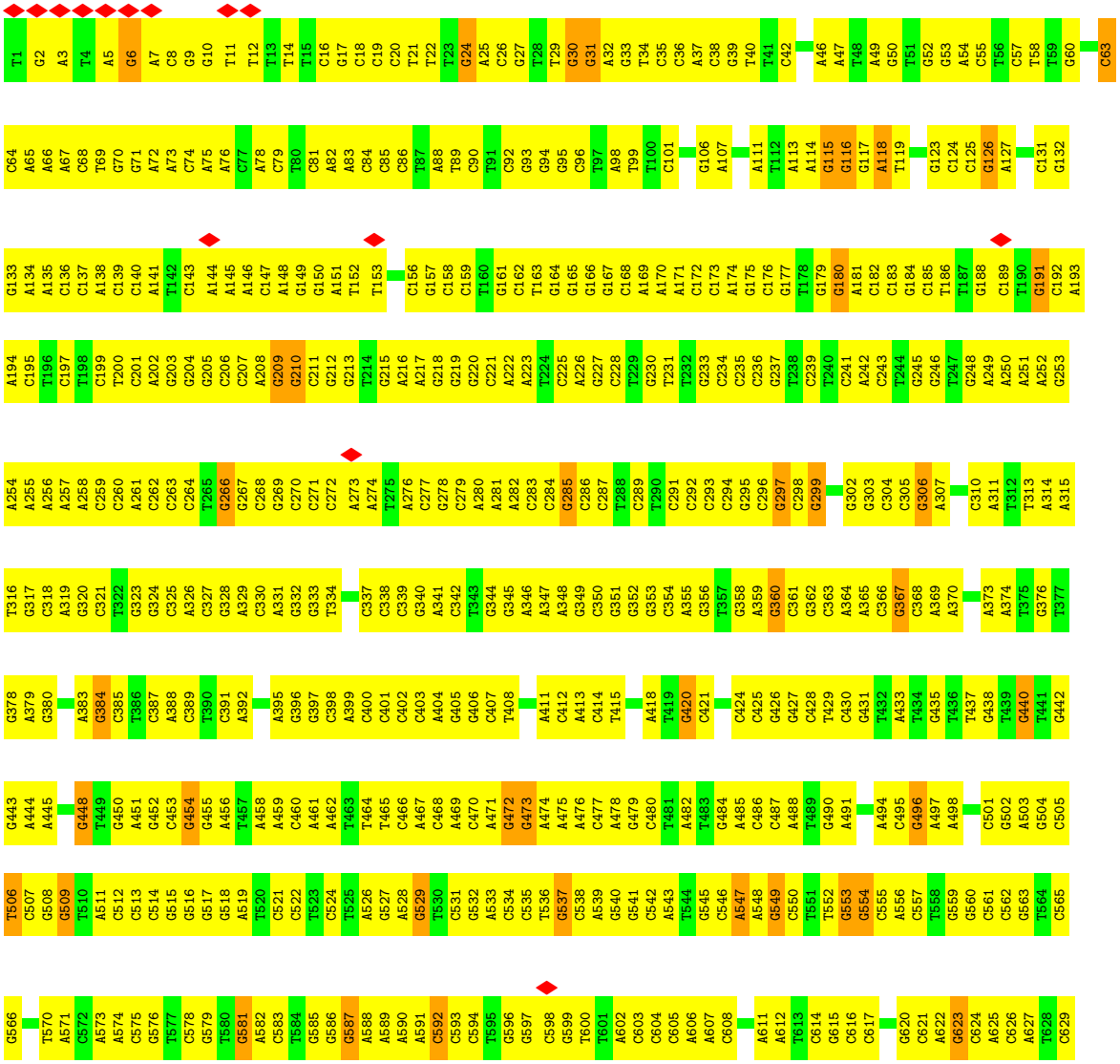
Mol	Chain	Residues	Atoms					AltConf	Trace
162	Cz	48	Total	C	N	O	P	0	0
			970	465	195	266	44		

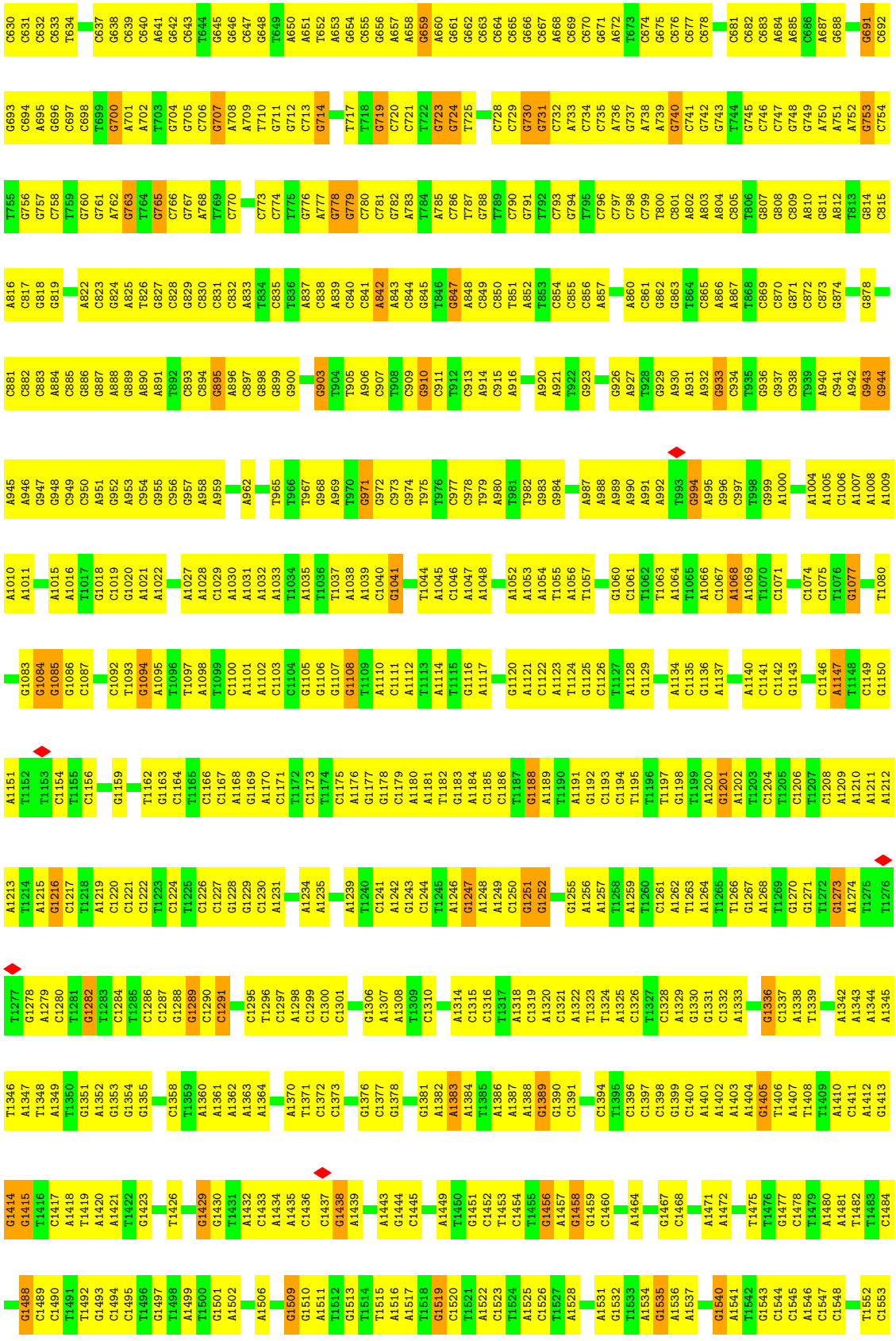
3 Residue-property plots (i)

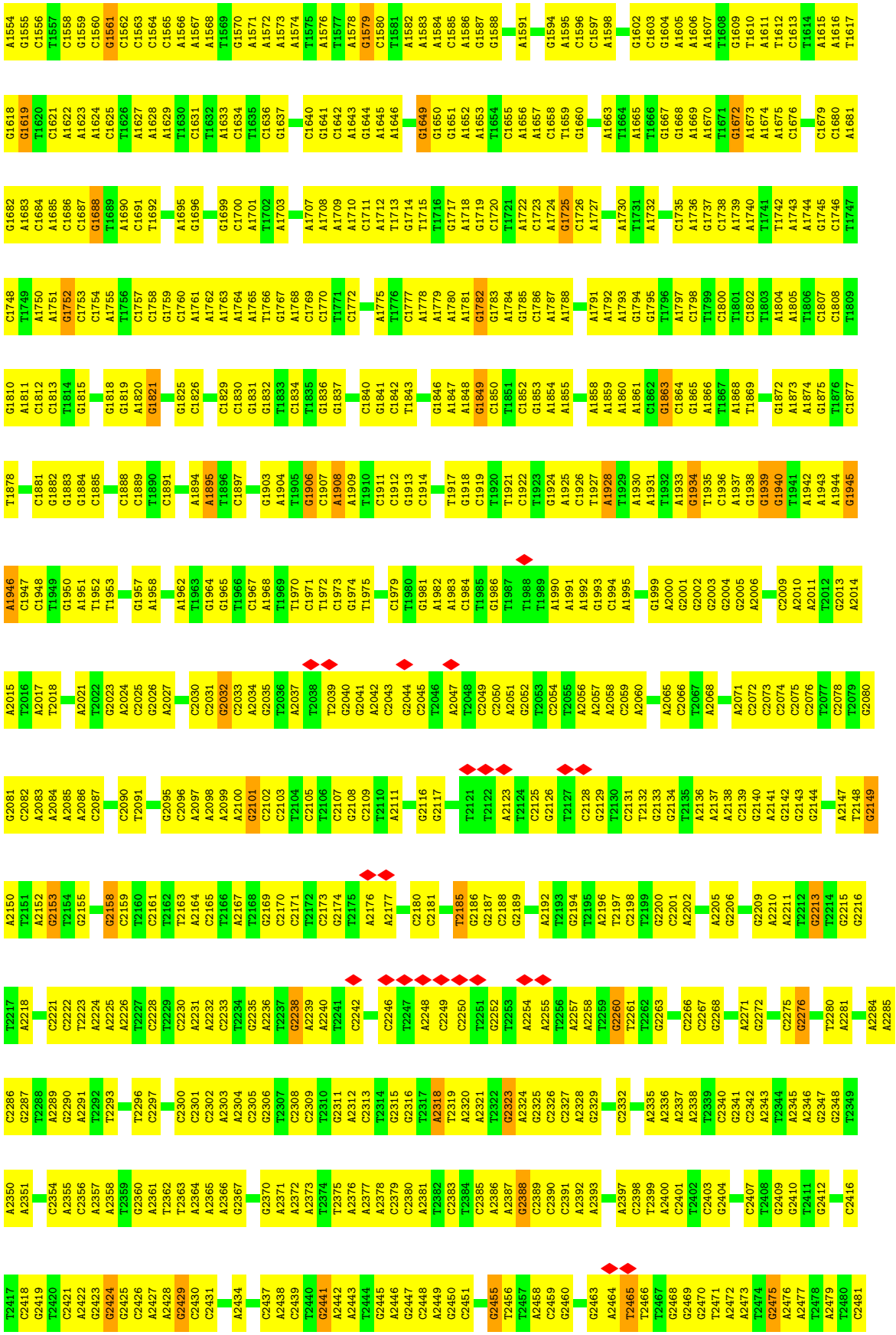
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion 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.

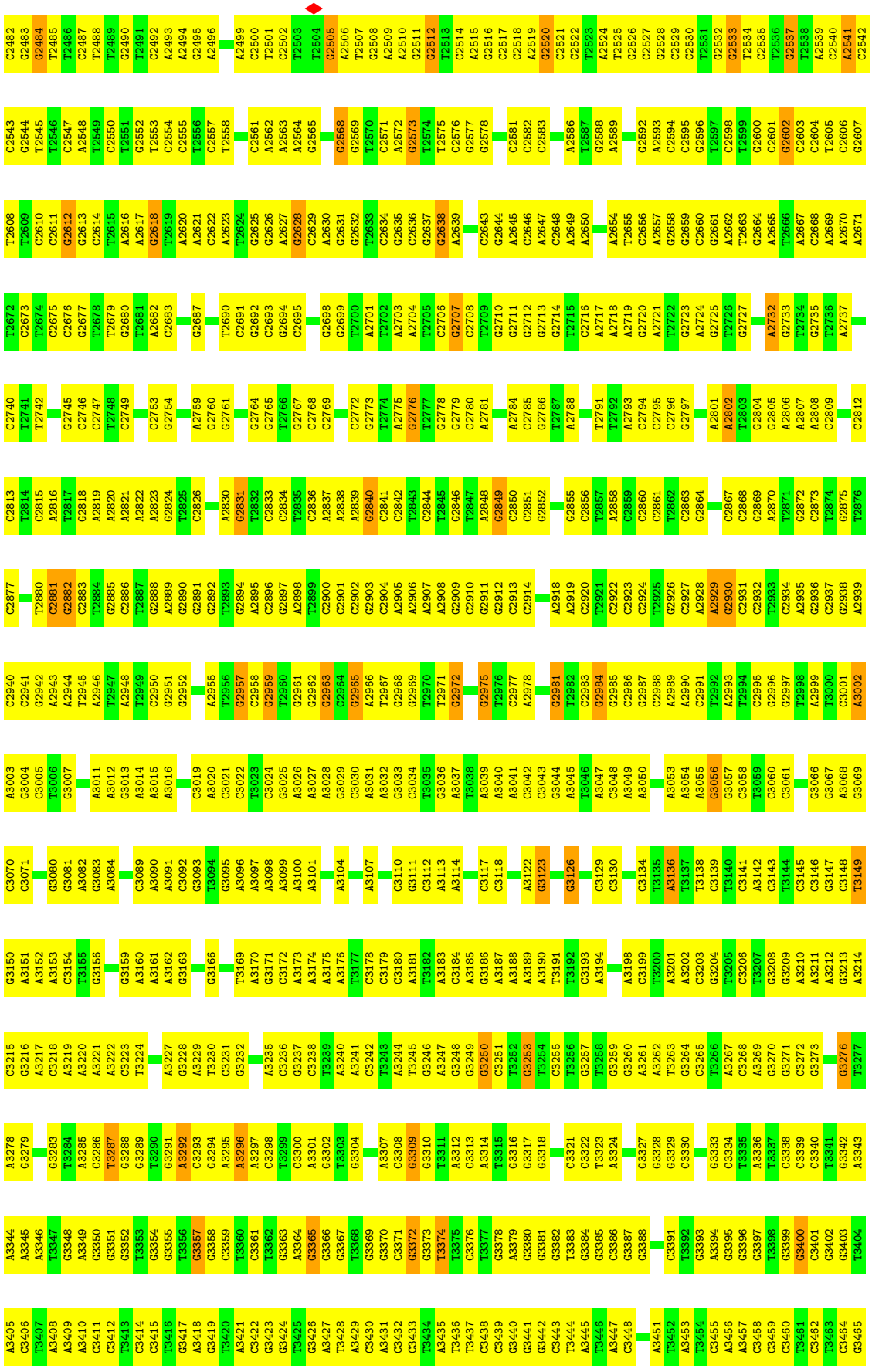
- Molecule 1: SCAFFOLD STRAND,SCAFFOLD STRAND

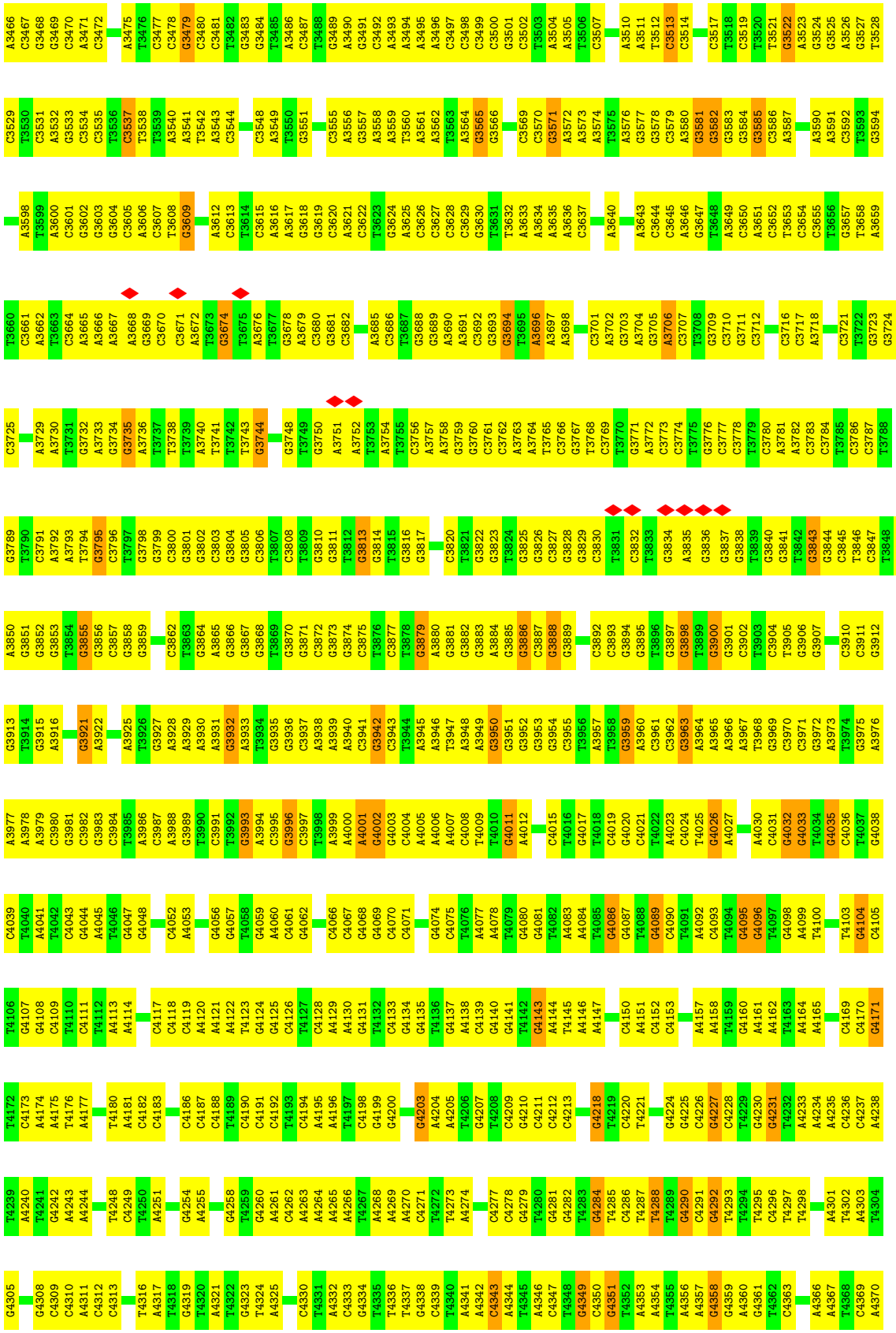
Chain AA:

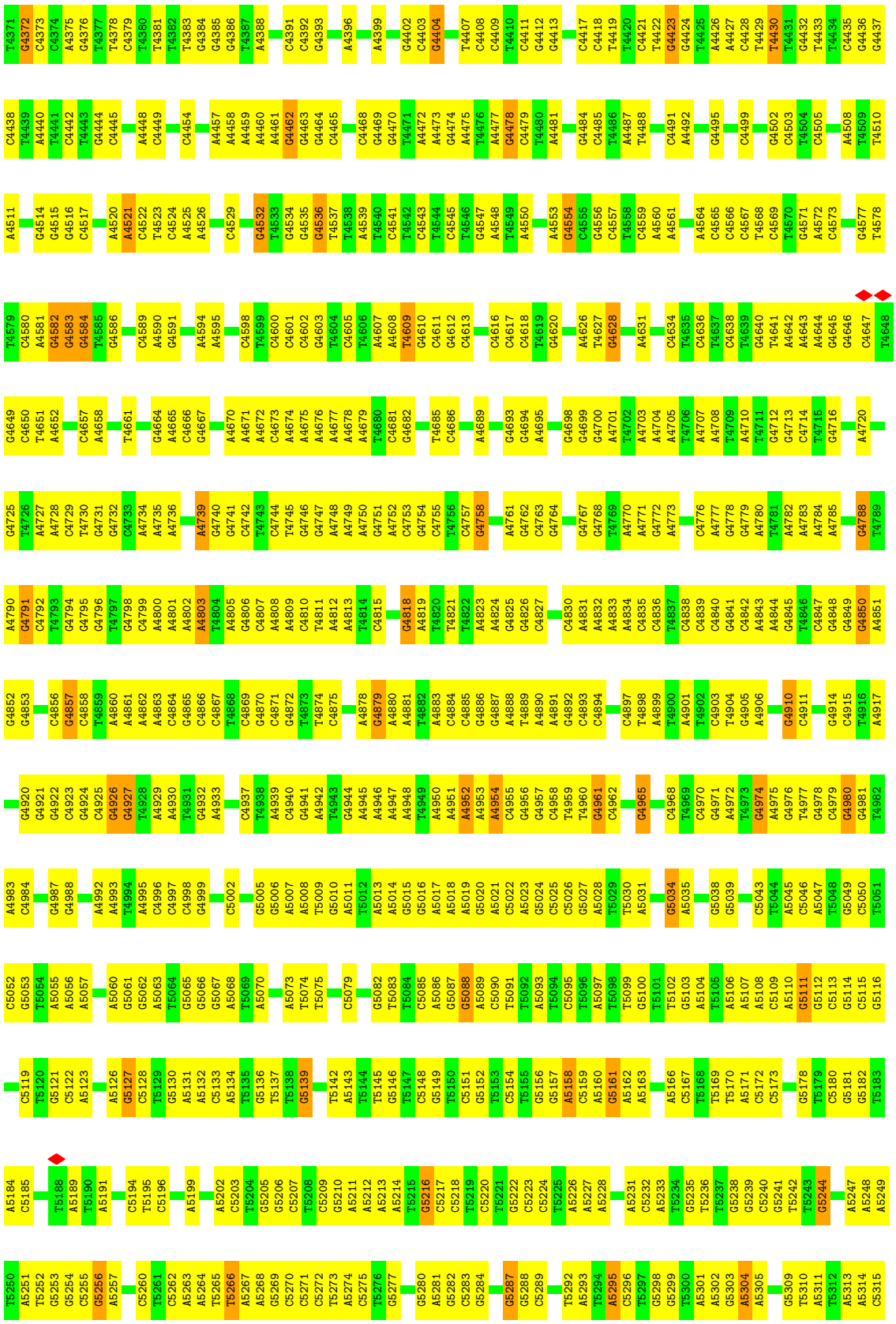


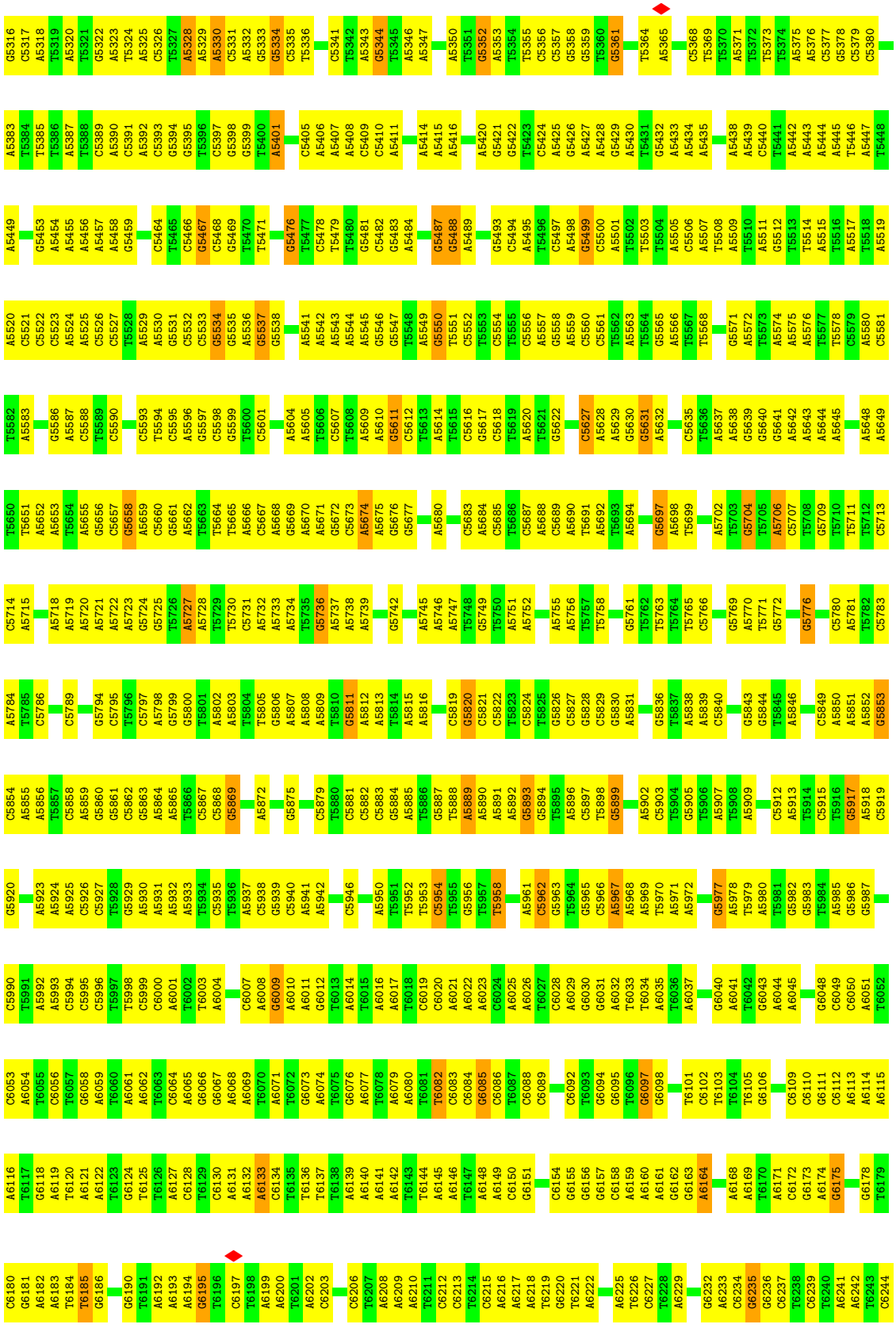


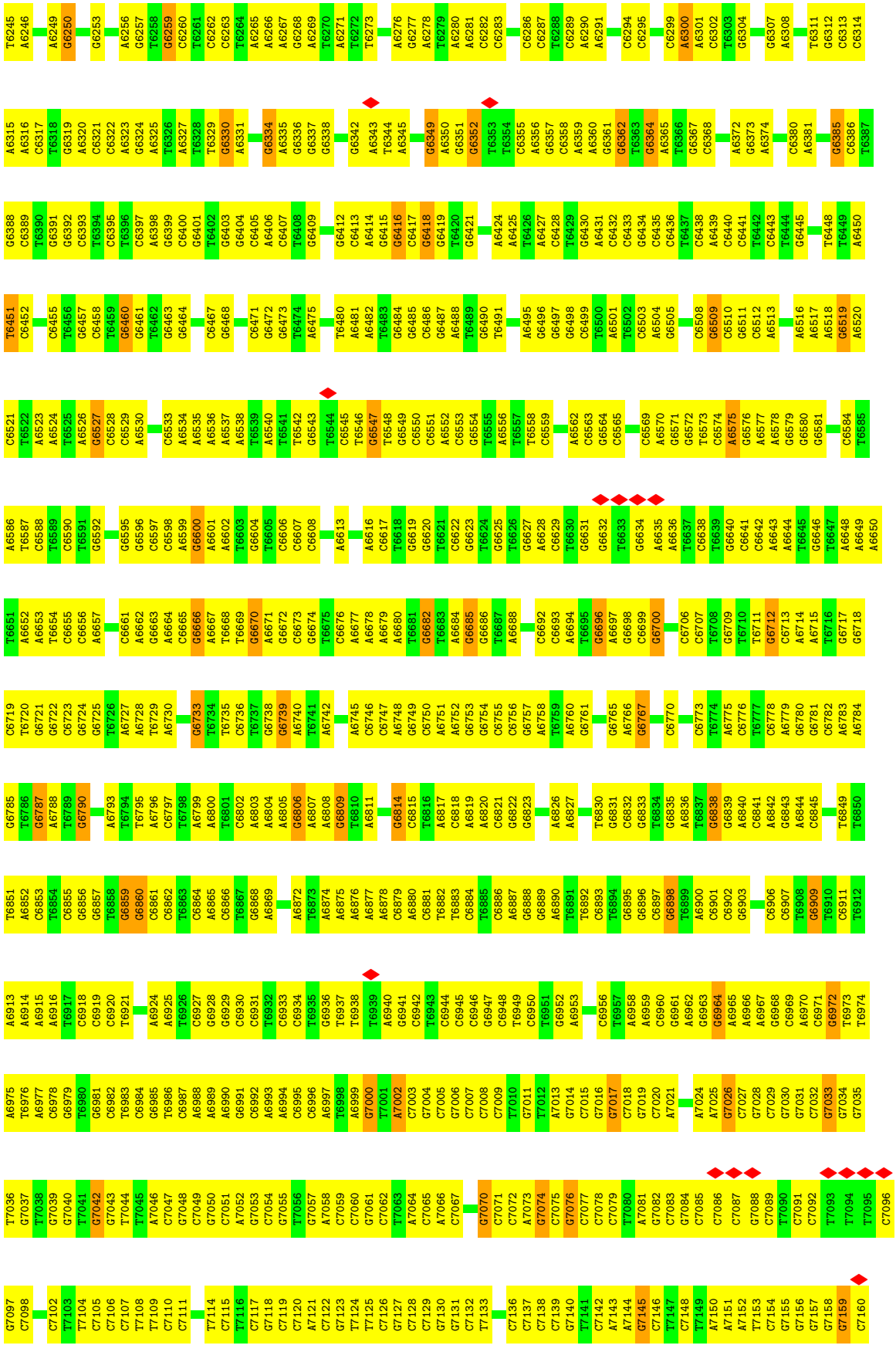


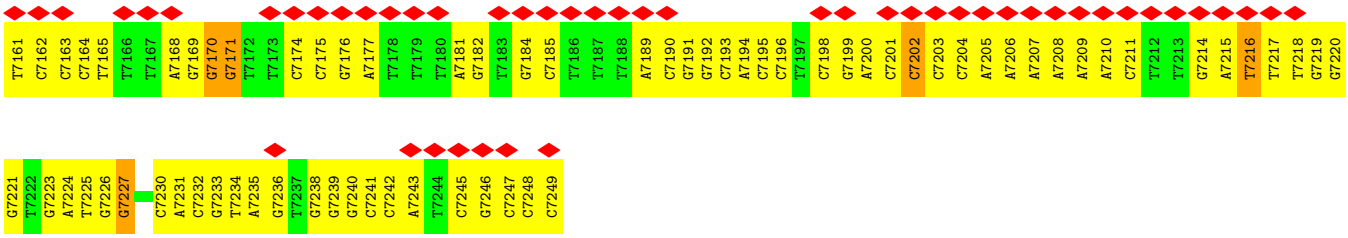






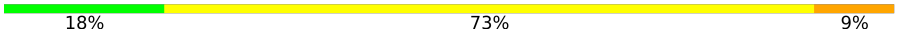






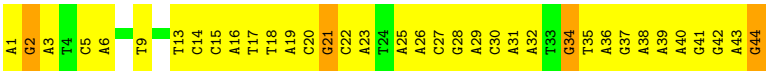
• Molecule 2: STAPLE STRAND

Chain A0:



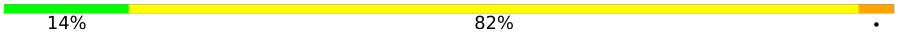
• Molecule 3: STAPLE STRAND

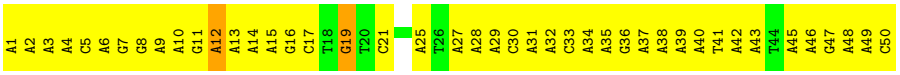
Chain A1:



• Molecule 4: STAPLE STRAND

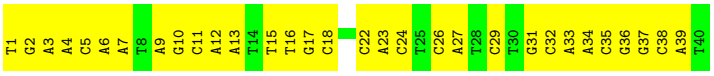
Chain A2:





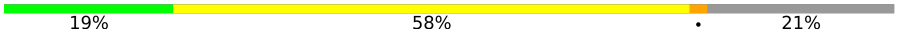
• Molecule 5: STAPLE STRAND

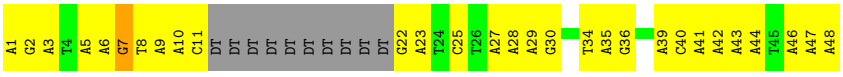
Chain A3:



• Molecule 6: STAPLE STRAND

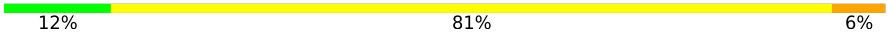
Chain A4:

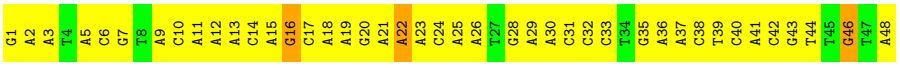




• Molecule 7: STAPLE STRAND

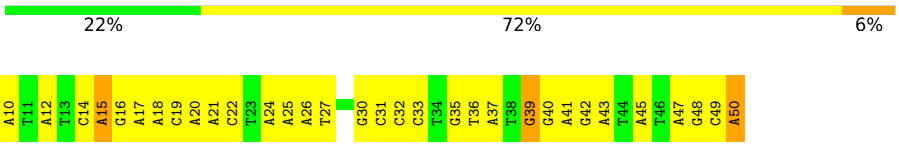
Chain A5:





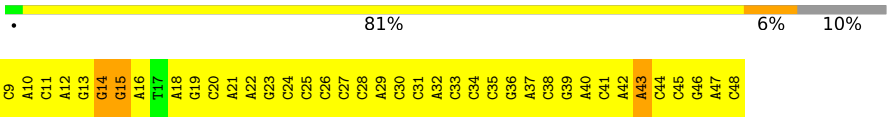
• Molecule 8: STAPLE STRAND

Chain A6:



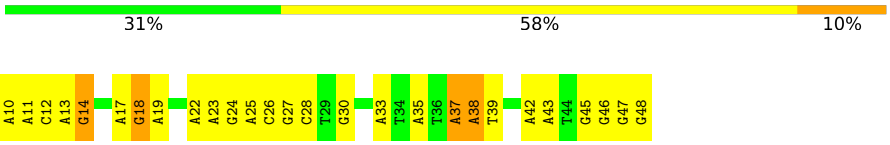
• Molecule 9: STAPLE STRAND

Chain A7:



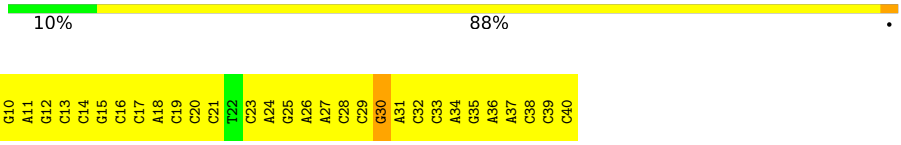
• Molecule 10: STAPLE STRAND

Chain A8:



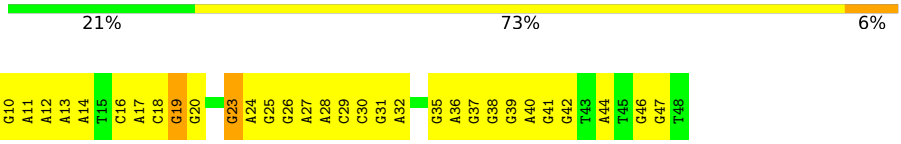
• Molecule 11: STAPLE STRAND

Chain AB:



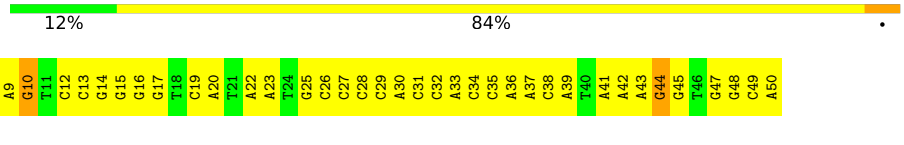
• Molecule 12: STAPLE STRAND

Chain AC:



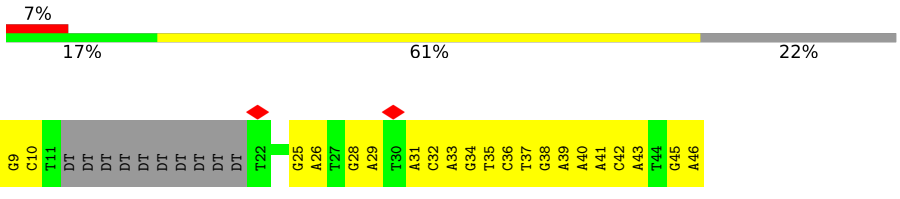
• Molecule 13: STAPLE STRAND

Chain AD:



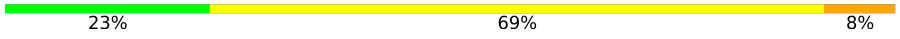
• Molecule 14: STAPLE STRAND

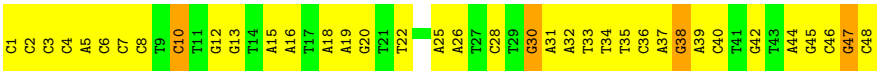
Chain AE:



• Molecule 15: STAPLE STRAND

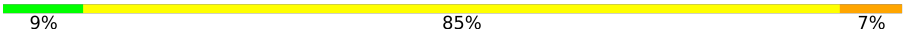
Chain AF:





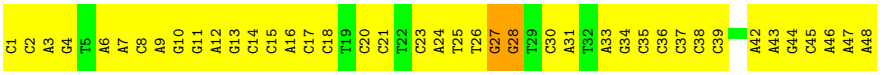
• Molecule 16: STAPLE STRAND

Chain AG:



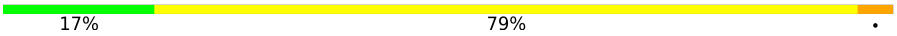
• Molecule 17: STAPLE STRAND

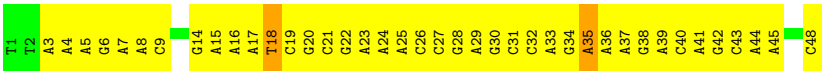
Chain AH:



• Molecule 18: STAPLE STRAND

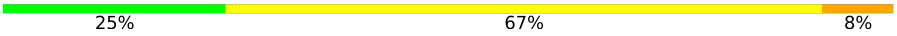
Chain AI:

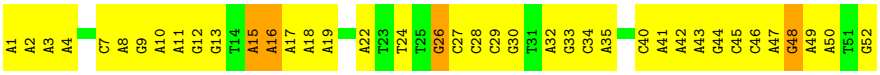




• Molecule 19: STAPLE STRAND

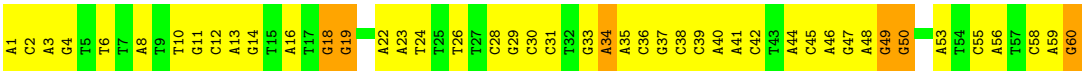
Chain AJ:





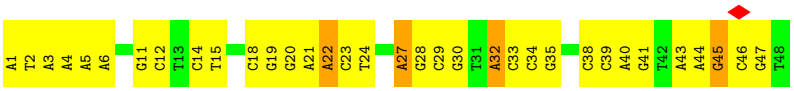
• Molecule 20: STAPLE STRAND

Chain AK:



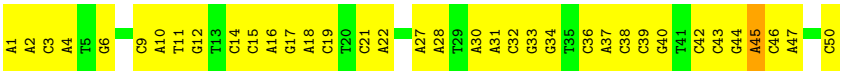
• Molecule 21: STAPLE STRAND

Chain AL:



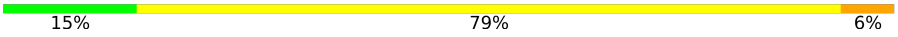
• Molecule 22: STAPLE STRAND

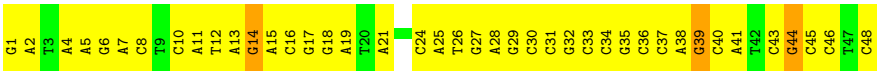
Chain AM:



• Molecule 23: STAPLE STRAND

Chain AN:



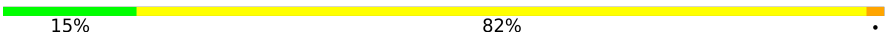


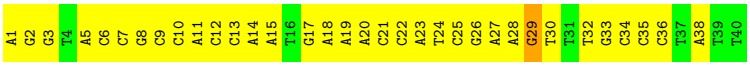
• Molecule 24: STAPLE STRAND

Chain AO:

• Molecule 25: STAPLE STRAND

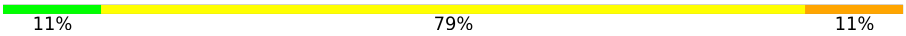
Chain AP:

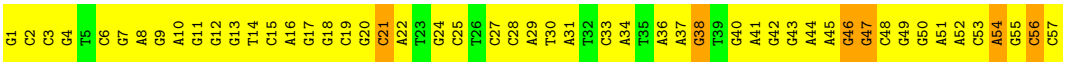




• Molecule 26: STAPLE STRAND

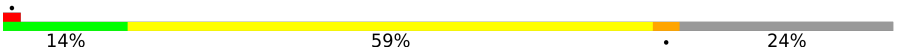
Chain AQ:

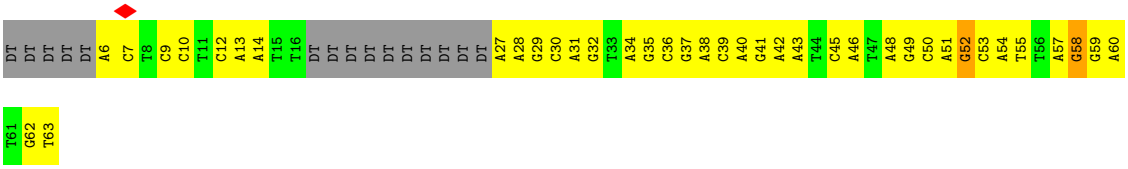




• Molecule 27: STAPLE STRAND

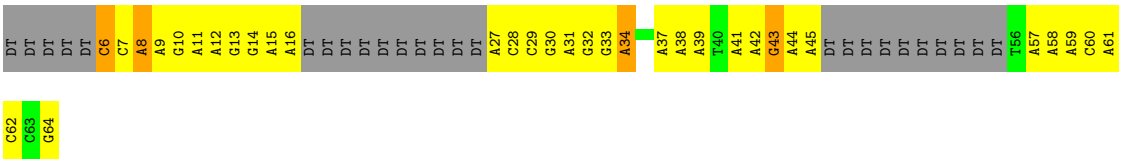
Chain AR:





• Molecule 28: STAPLE STRAND

Chain AS:

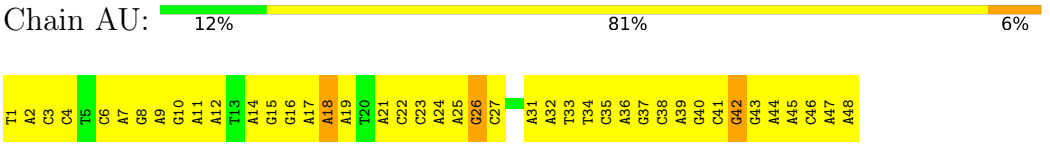


• Molecule 29: STAPLE STRAND

Chain AT:

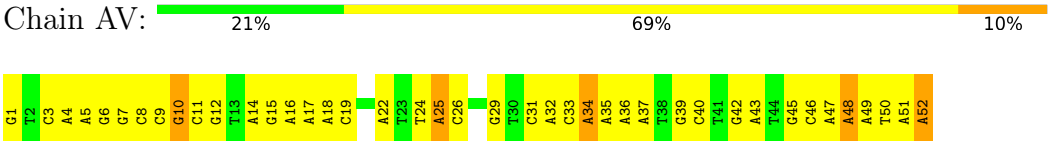
• Molecule 30: STAPLE STRAND

Chain AU:



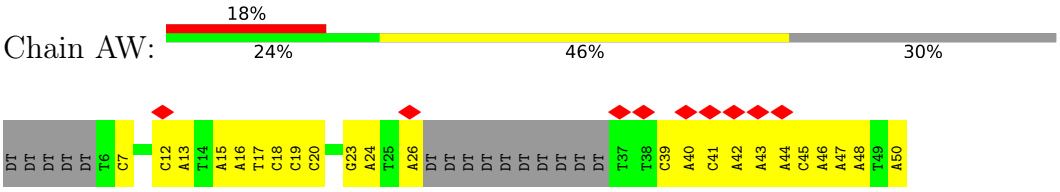
• Molecule 31: STAPLE STRAND

Chain AV:



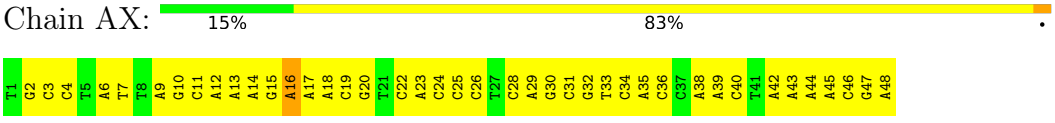
• Molecule 32: STAPLE STRAND

Chain AW:



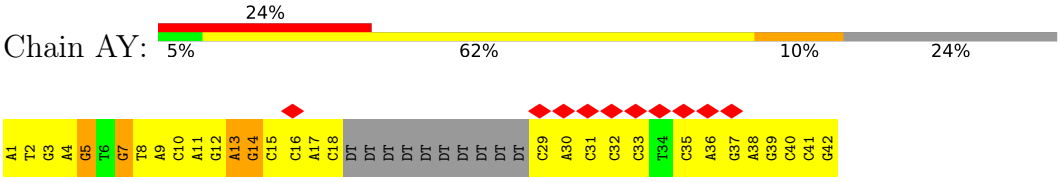
• Molecule 33: STAPLE STRAND

Chain AX:



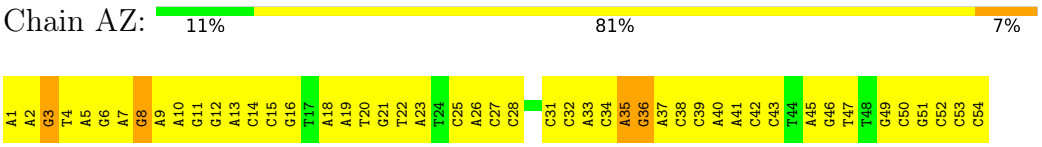
• Molecule 34: STAPLE STRAND

Chain AY:



• Molecule 35: STAPLE STRAND

Chain AZ:

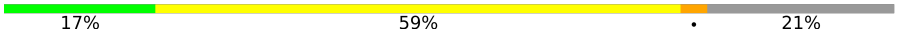


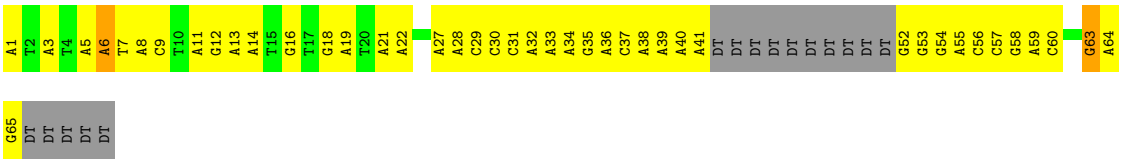
• Molecule 36: STAPLE STRAND

Chain Ab:

• Molecule 37: STAPLE STRAND

Chain Ac:



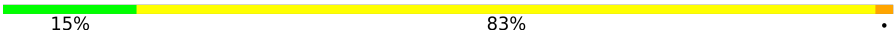


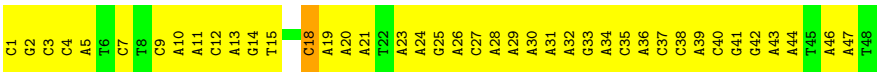
• Molecule 38: STAPLE STRAND

Chain Ad:

• Molecule 39: STAPLE STRAND

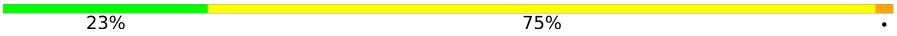
Chain Af:

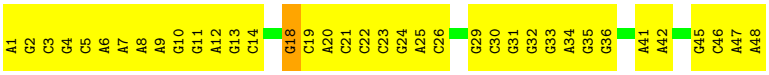




• Molecule 40: STAPLE STRAND

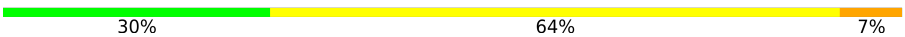
Chain Ag:

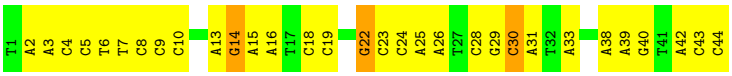




• Molecule 41: STAPLE STRAND

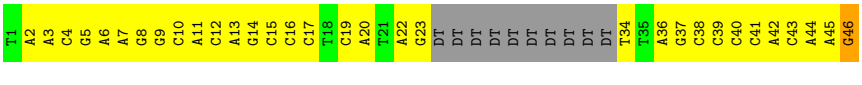
Chain Ah:





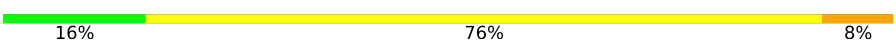
• Molecule 42: STAPLE STRAND

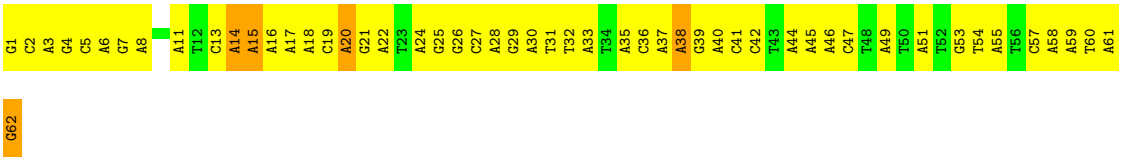
Chain Ai:



• Molecule 43: STAPLE STRAND

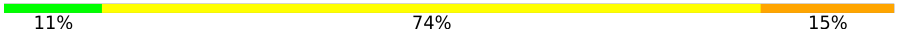
Chain Aj:





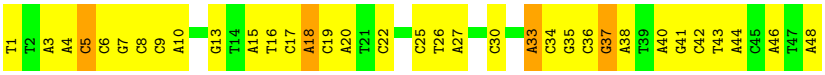
• Molecule 44: STAPLE STRAND

Chain Ak:



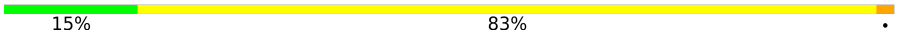
• Molecule 45: STAPLE STRAND

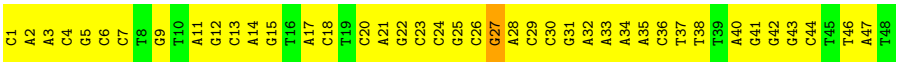
Chain Al:



• Molecule 46: STAPLE STRAND

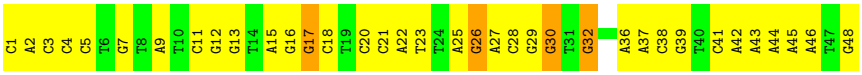
Chain Am:





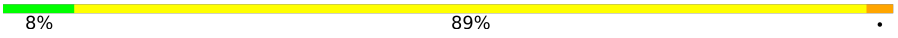
• Molecule 47: STAPLE STRAND

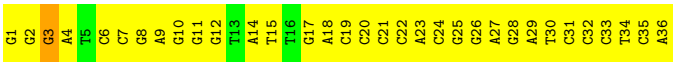
Chain An:



• Molecule 48: STAPLE STRAND

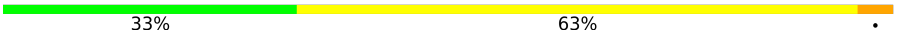
Chain Ao:

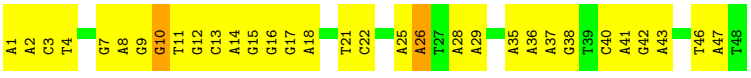




• Molecule 49: STAPLE STRAND

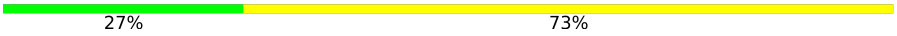
Chain As:

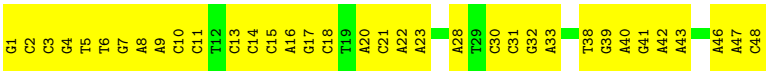




• Molecule 50: STAPLE STRAND

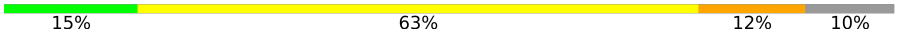
Chain Au:





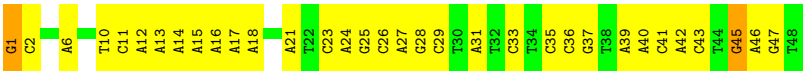
• Molecule 51: STAPLE STRAND

Chain Av:



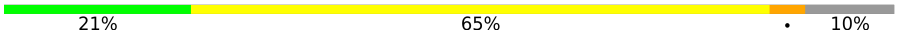
• Molecule 52: STAPLE STRAND

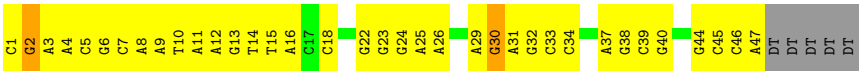
Chain Aw:



• Molecule 53: STAPLE STRAND

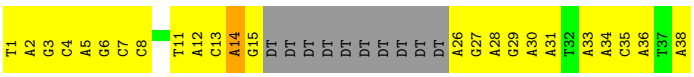
Chain Ax:





• Molecule 54: STAPLE STRAND

Chain Ay:

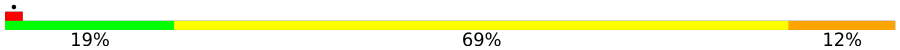


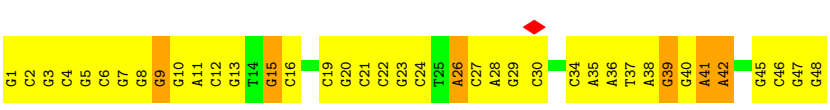
• Molecule 55: STAPLE STRAND

Chain Az:

• Molecule 56: STAPLE STRAND

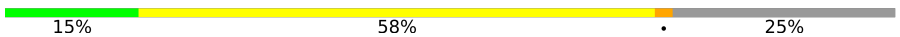
Chain B0:

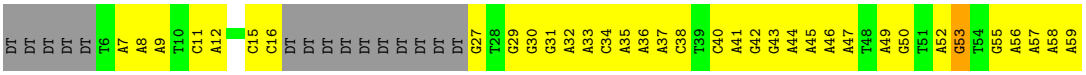




• Molecule 57: STAPLE STRAND

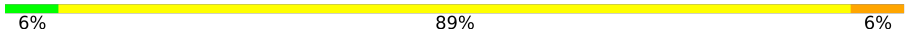
Chain B1:

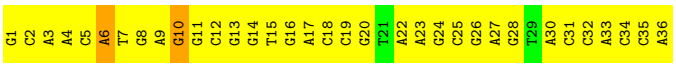




- Molecule 58: STAPLE STRAND

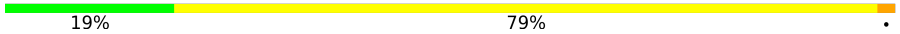
Chain B2:





- Molecule 59: STAPLE STRAND

Chain B3:

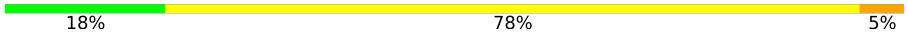


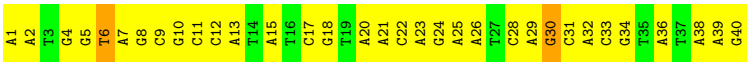
- Molecule 60: STAPLE STRAND

Chain B4:

- Molecule 61: STAPLE STRAND

Chain B5:



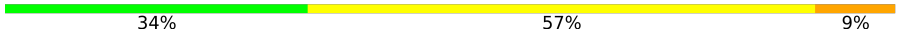


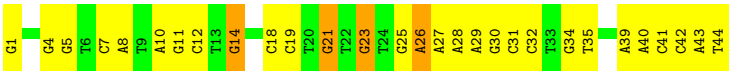
- Molecule 62: STAPLE STRAND

Chain B6:

- Molecule 63: STAPLE STRAND

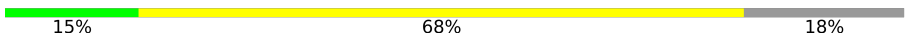
Chain B7:

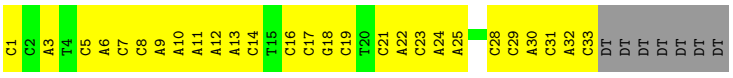




- Molecule 64: STAPLE STRAND

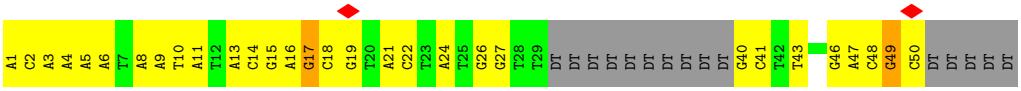
Chain B8:





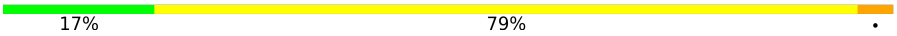
• Molecule 65: STAPLE STRAND

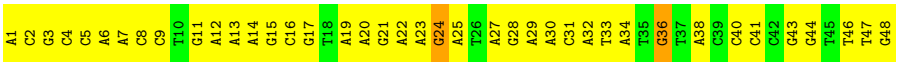
Chain B9:



• Molecule 66: STAPLE STRAND

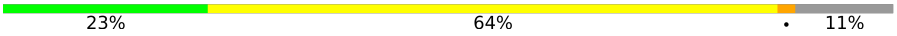
Chain BB:

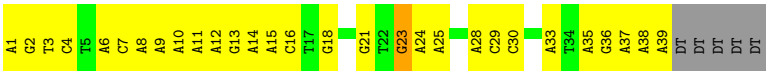




• Molecule 67: STAPLE STRAND

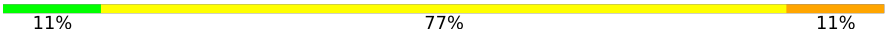
Chain BC:

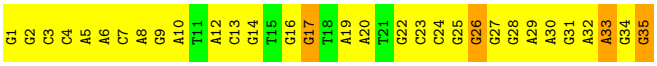




• Molecule 68: STAPLE STRAND

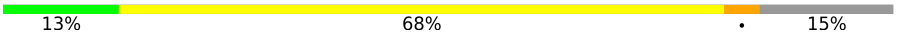
Chain BD:

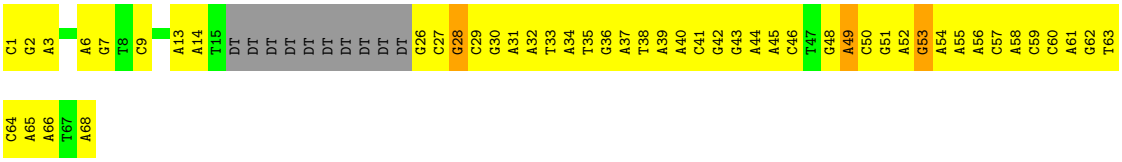




• Molecule 69: STAPLE STRAND

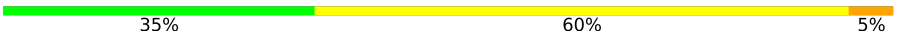
Chain BE:





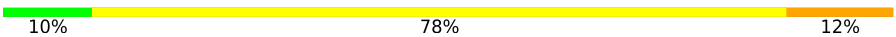
• Molecule 70: STAPLE STRAND

Chain BF:



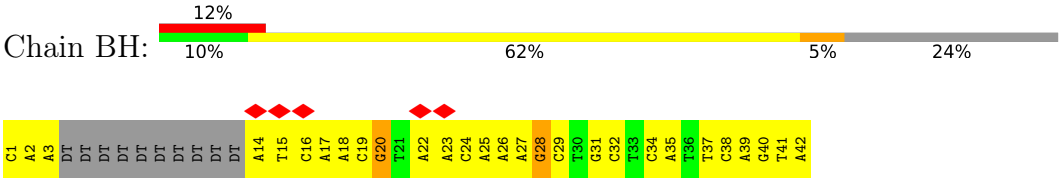
• Molecule 71: STAPLE STRAND

Chain BG:



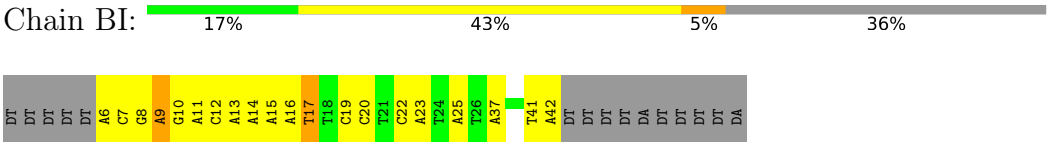
• Molecule 72: STAPLE STRAND

Chain BH:



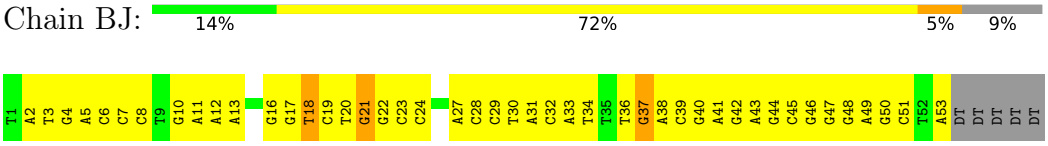
• Molecule 73: STAPLE STRAND

Chain BI:



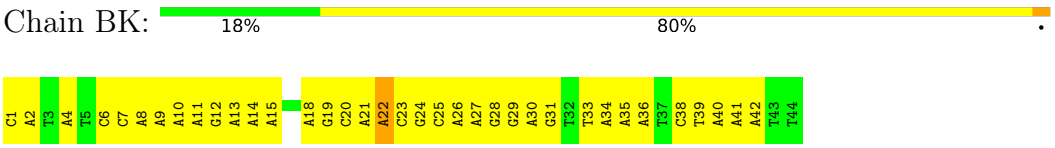
• Molecule 74: STAPLE STRAND

Chain BJ:



• Molecule 75: STAPLE STRAND

Chain BK:

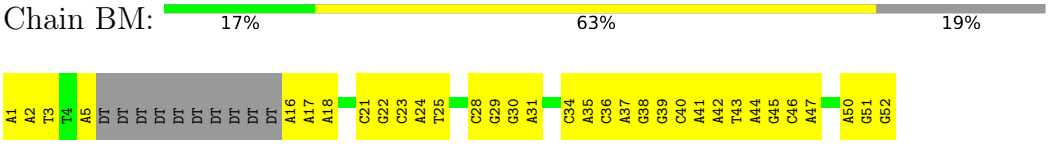


• Molecule 76: STAPLE STRAND

Chain BL:

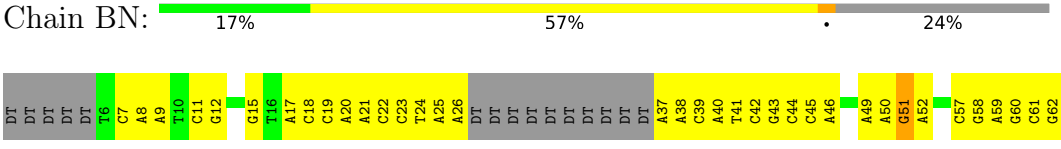
• Molecule 77: STAPLE STRAND

Chain BM:



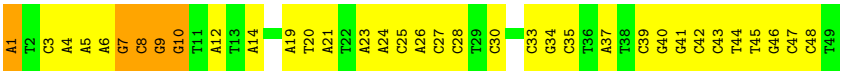
• Molecule 78: STAPLE STRAND

Chain BN:



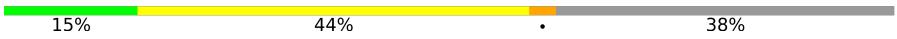
• Molecule 79: STAPLE STRAND

Chain BO:



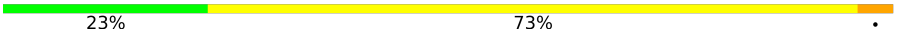
• Molecule 80: STAPLE STRAND

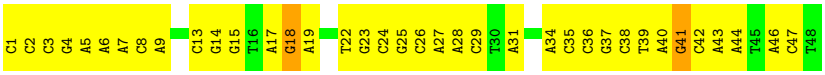
Chain BP:



• Molecule 81: STAPLE STRAND

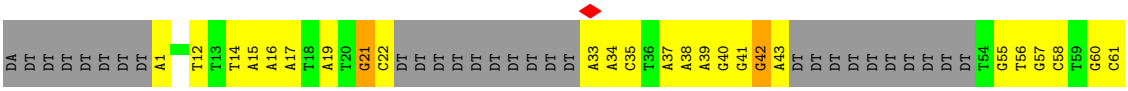
Chain BQ:





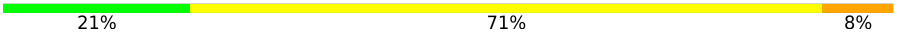
• Molecule 82: STAPLE STRAND

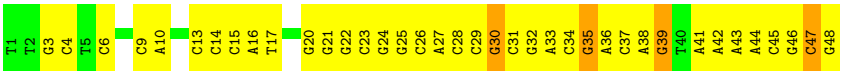
Chain BR:



• Molecule 83: STAPLE STRAND

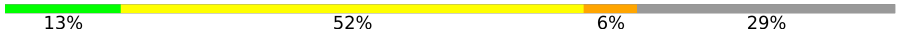
Chain BS:





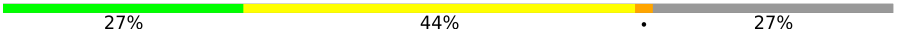
• Molecule 84: STAPLE STRAND

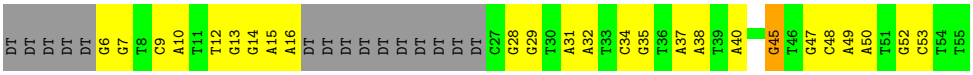
Chain BT:



• Molecule 85: STAPLE STRAND

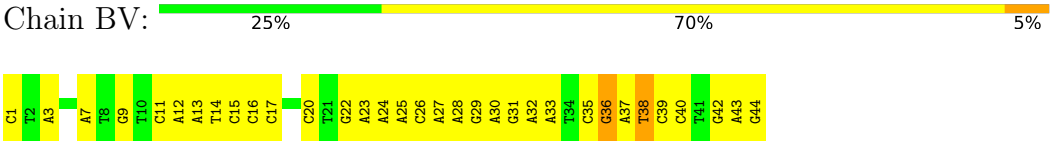
Chain BU:





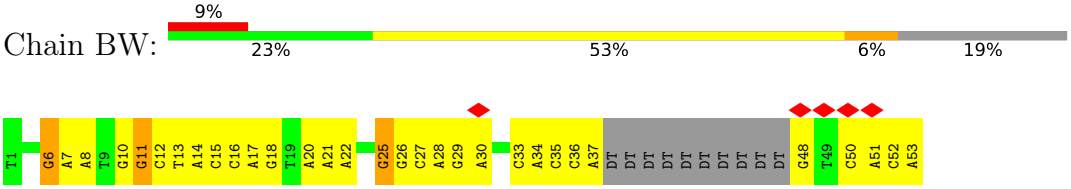
• Molecule 86: STAPLE STRAND

Chain BV:



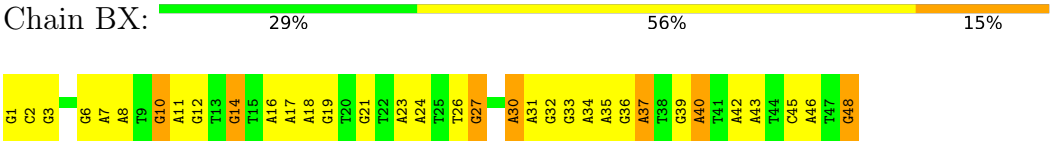
• Molecule 87: STAPLE STRAND

Chain BW:



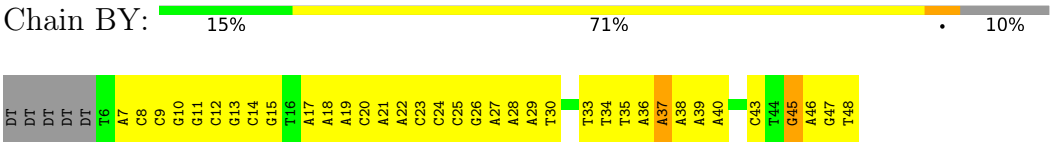
• Molecule 88: STAPLE STRAND

Chain BX:



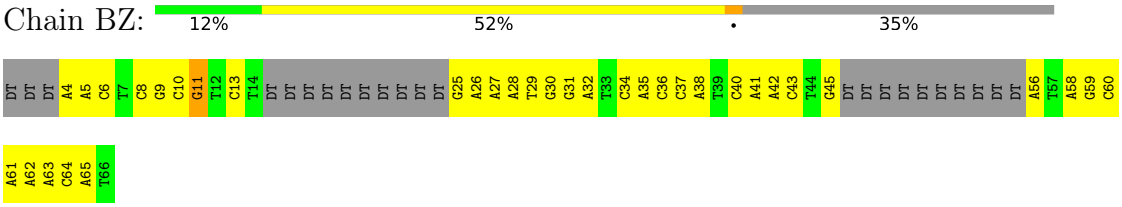
• Molecule 89: STAPLE STRAND

Chain BY:



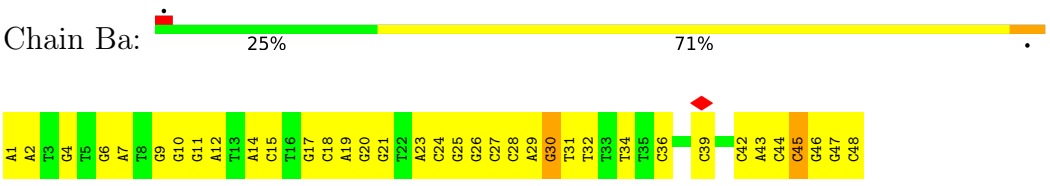
• Molecule 90: STAPLE STRAND

Chain BZ:



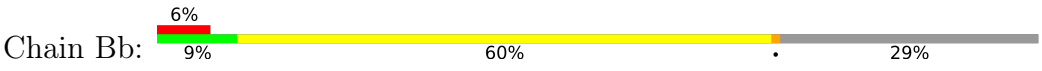
• Molecule 91: STAPLE STRAND

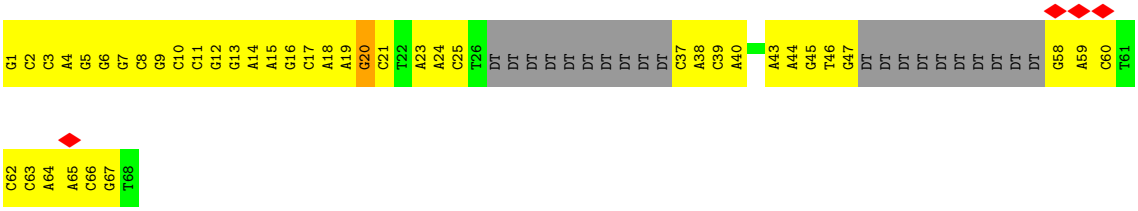
Chain Ba:



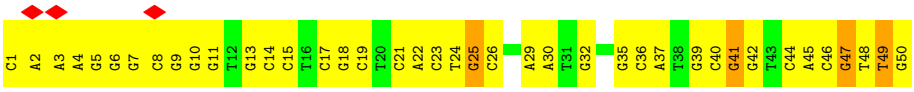
• Molecule 92: STAPLE STRAND

Chain Bb:

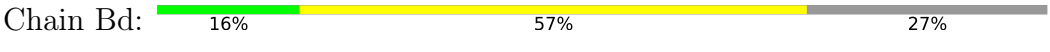


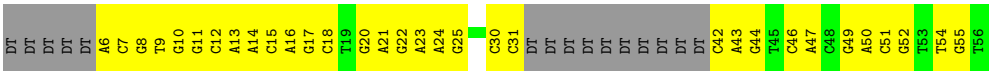


• Molecule 93: STAPLE STRAND

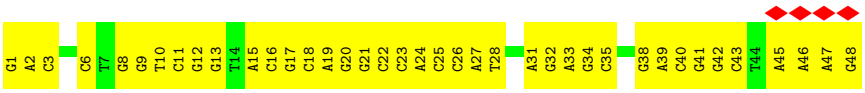


• Molecule 94: STAPLE STRAND



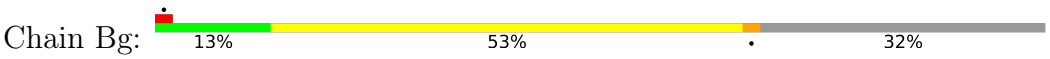


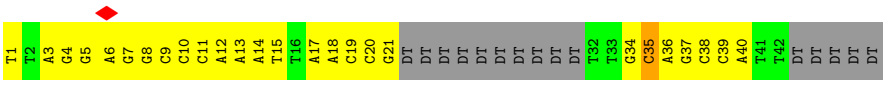
• Molecule 95: STAPLE STRAND



• Molecule 96: STAPLE STRAND

• Molecule 97: STAPLE STRAND

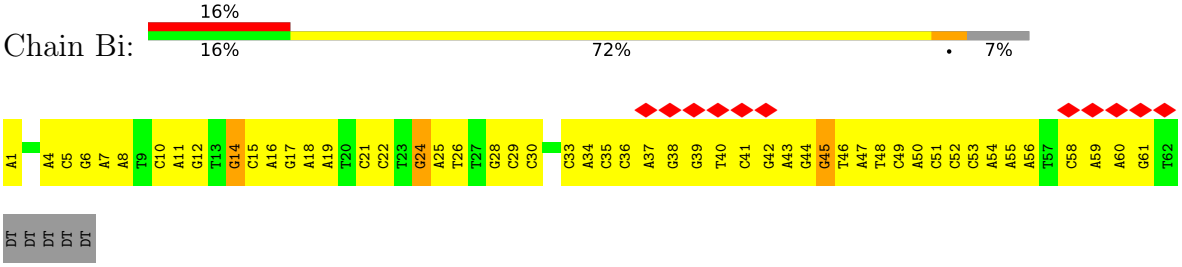




• Molecule 98: STAPLE STRAND

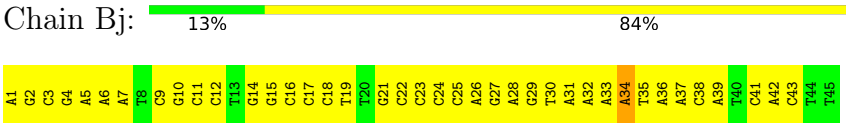
• Molecule 99: STAPLE STRAND

Chain Bi:



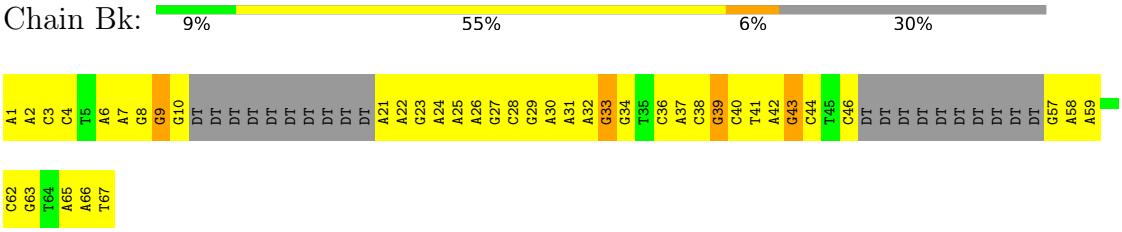
• Molecule 100: STAPLE STRAND

Chain Bj:



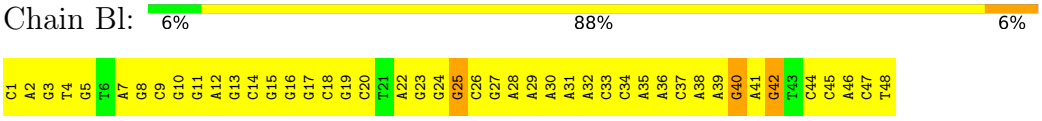
• Molecule 101: STAPLE STRAND

Chain Bk:



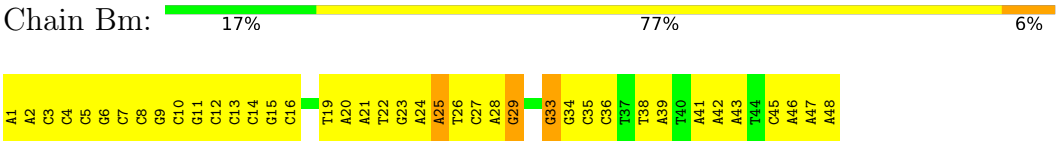
• Molecule 102: STAPLE STRAND

Chain Bl:



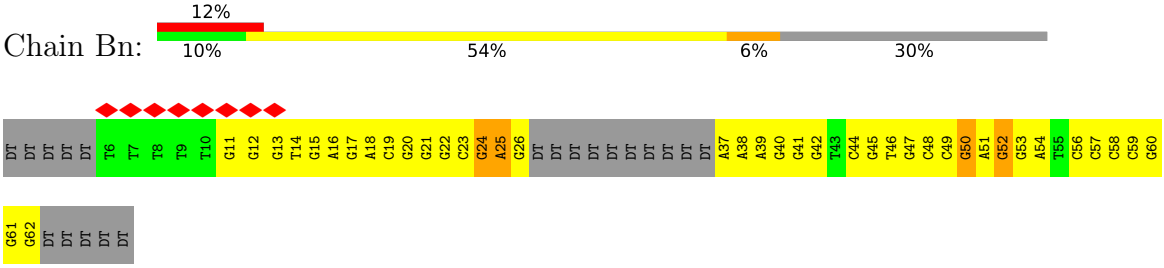
• Molecule 103: STAPLE STRAND

Chain Bm:



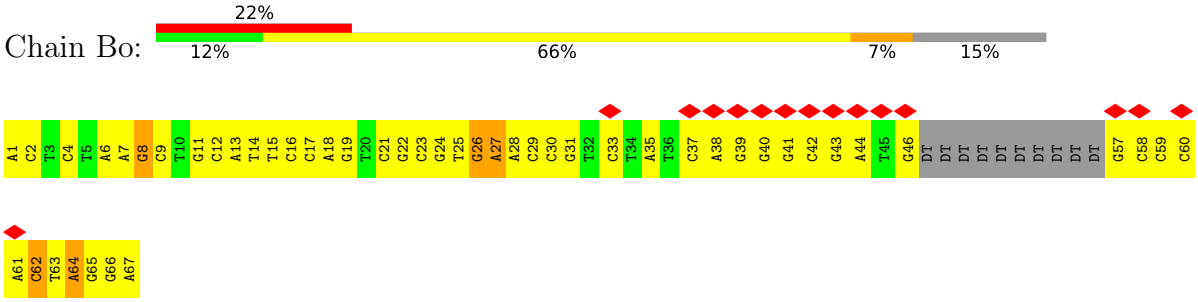
• Molecule 104: STAPLE STRAND

Chain Bn:



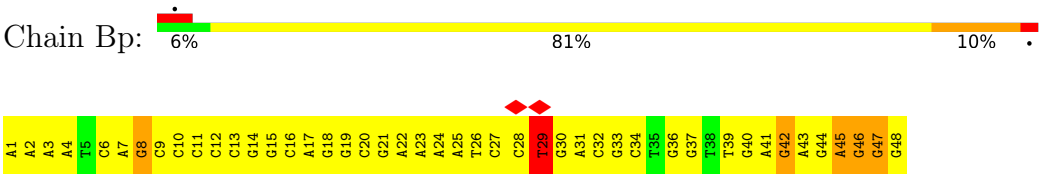
• Molecule 105: STAPLE STRAND

Chain Bo:



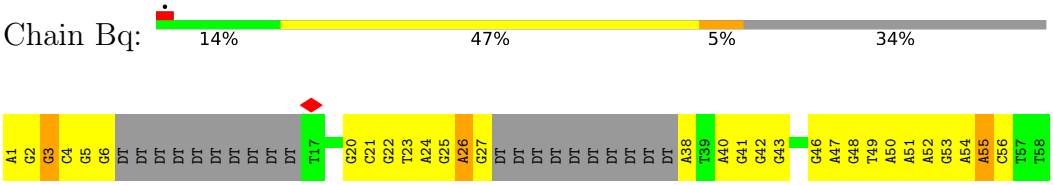
• Molecule 106: STAPLE STRAND

Chain Bp:



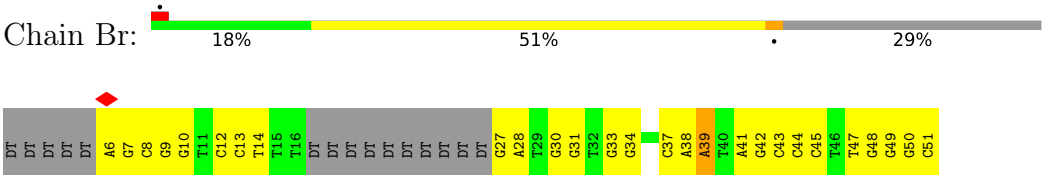
• Molecule 107: STAPLE STRAND

Chain Bq:



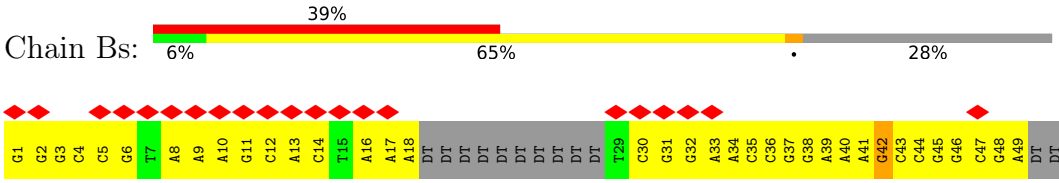
• Molecule 108: STAPLE STRAND

Chain Br:



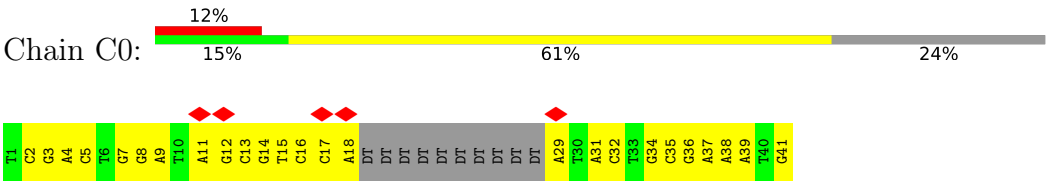
• Molecule 109: STAPLE STRAND

Chain Bs:



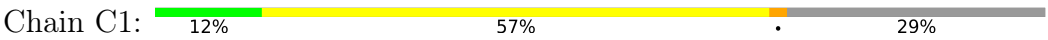
• Molecule 110: STAPLE STRAND

Chain C0:



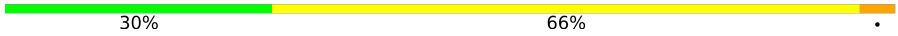
• Molecule 111: STAPLE STRAND

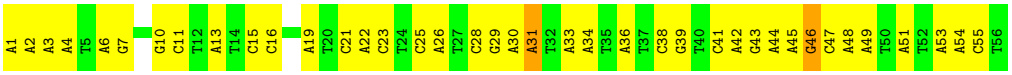
Chain C1:



• Molecule 112: STAPLE STRAND

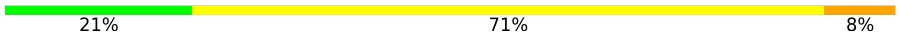
Chain C2:





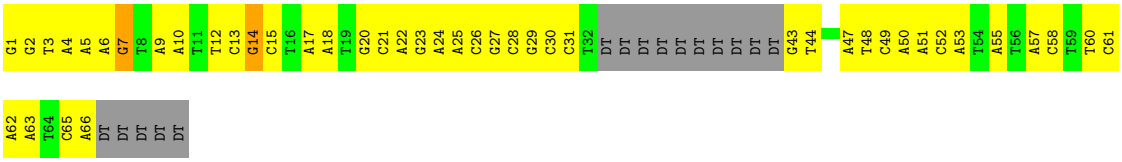
• Molecule 113: STAPLE STRAND

Chain C3:



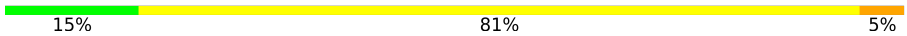
• Molecule 114: STAPLE STRAND

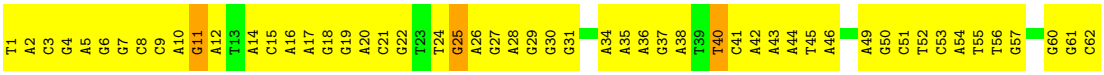
Chain C4:



• Molecule 115: STAPLE STRAND

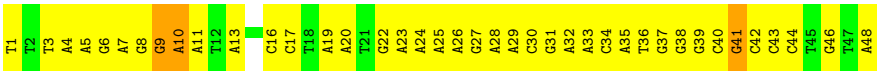
Chain C5:





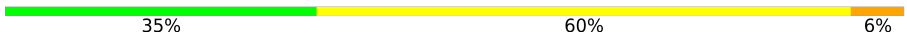
• Molecule 116: STAPLE STRAND

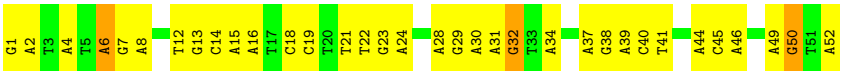
Chain C6:



• Molecule 117: STAPLE STRAND

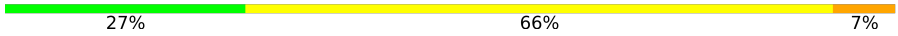
Chain C7:

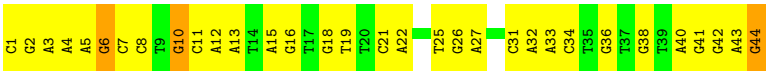




• Molecule 118: STAPLE STRAND

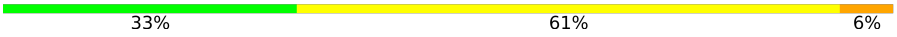
Chain C8:

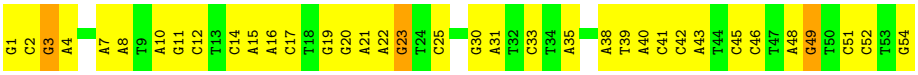




• Molecule 119: STAPLE STRAND

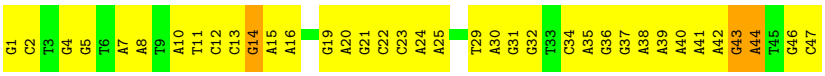
Chain CB:





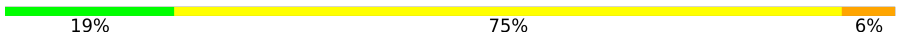
• Molecule 120: STAPLE STRAND

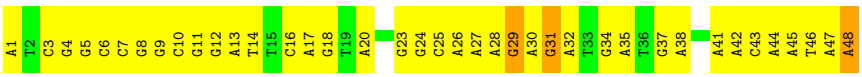
Chain CC:



• Molecule 121: STAPLE STRAND

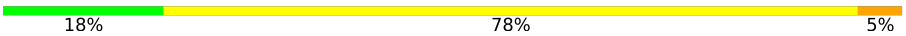
Chain CD:

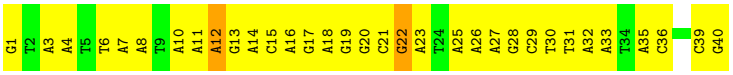




• Molecule 122: STAPLE STRAND

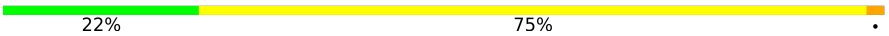
Chain CE:

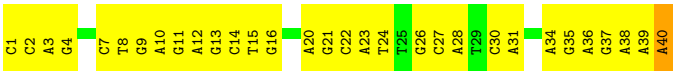




• Molecule 123: STAPLE STRAND

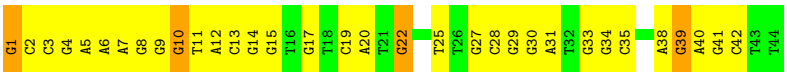
Chain CF:





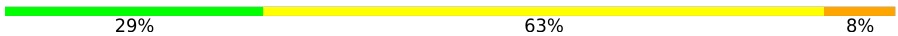
• Molecule 124: STAPLE STRAND

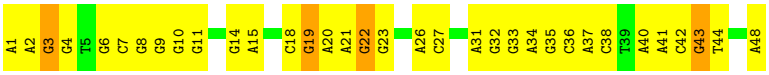
Chain CG:



• Molecule 125: STAPLE STRAND

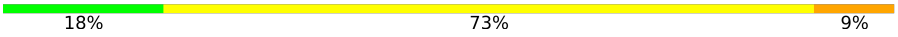
Chain CH:





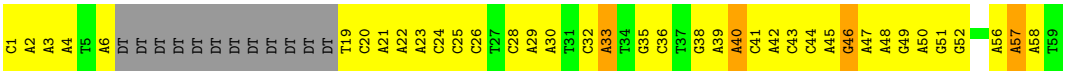
• Molecule 126: STAPLE STRAND

Chain CI:



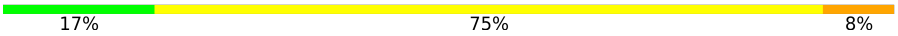
• Molecule 127: STAPLE STRAND

Chain CJ:



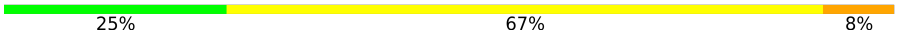
• Molecule 128: STAPLE STRAND

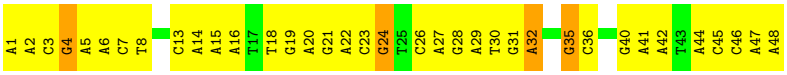
Chain CK:



• Molecule 129: STAPLE STRAND

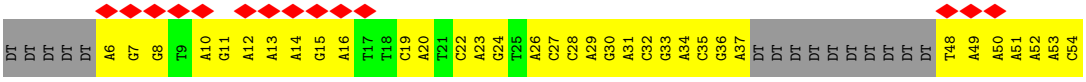
Chain CL:





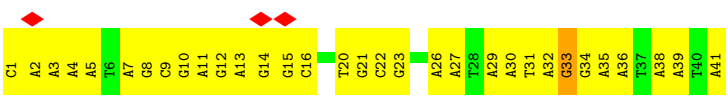
• Molecule 130: STAPLE STRAND

Chain CM:



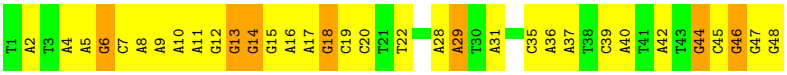
• Molecule 131: STAPLE STRAND

Chain CN:



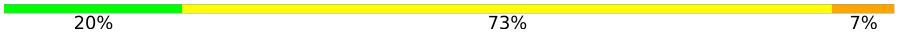
• Molecule 132: STAPLE STRAND

Chain CO:



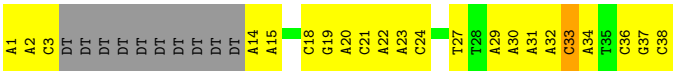
• Molecule 133: STAPLE STRAND

Chain CP:



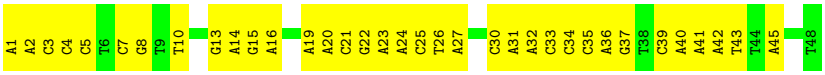
• Molecule 134: STAPLE STRAND

Chain CQ:



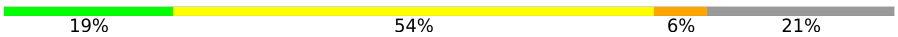
• Molecule 135: STAPLE STRAND

Chain CR:



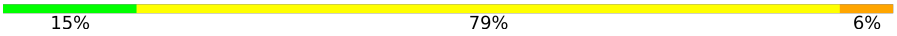
• Molecule 136: STAPLE STRAND

Chain CS:



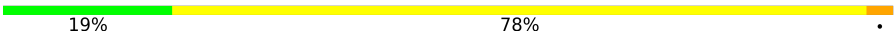
• Molecule 137: STAPLE STRAND

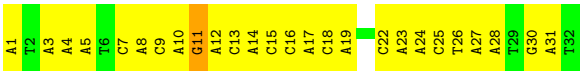
Chain CT:



• Molecule 138: STAPLE STRAND

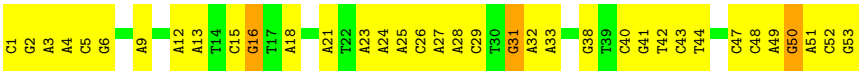
Chain CU:





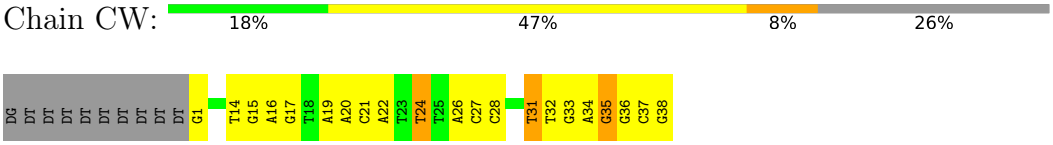
• Molecule 139: STAPLE STRAND

Chain CV:



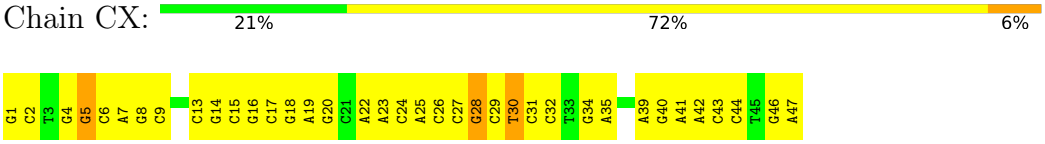
• Molecule 140: STAPLE STRAND

Chain CW:



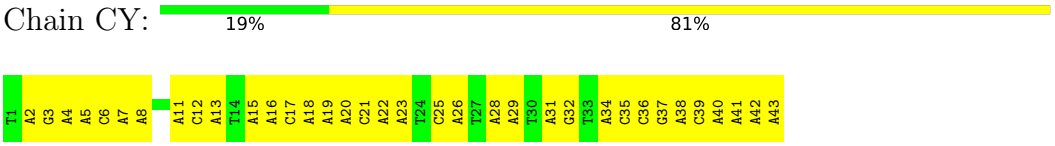
• Molecule 141: STAPLE STRAND

Chain CX:



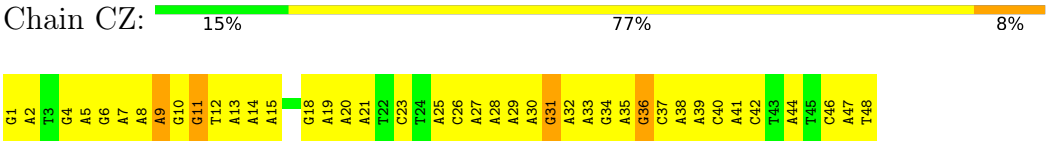
• Molecule 142: STAPLE STRAND

Chain CY:



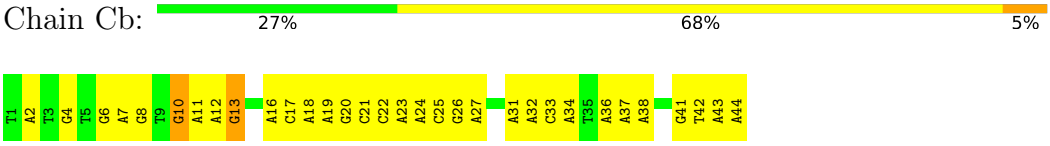
• Molecule 143: STAPLE STRAND

Chain CZ:



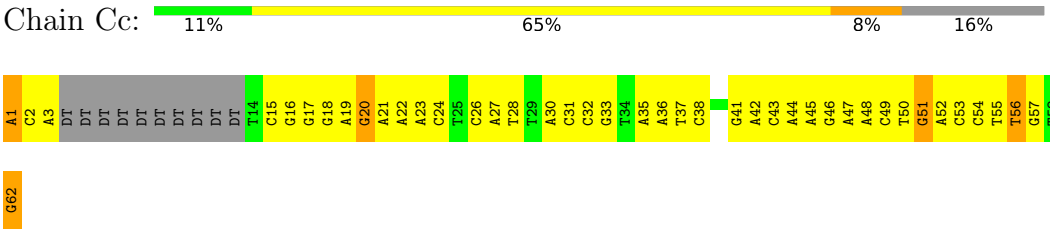
• Molecule 144: STAPLE STRAND

Chain Cb:



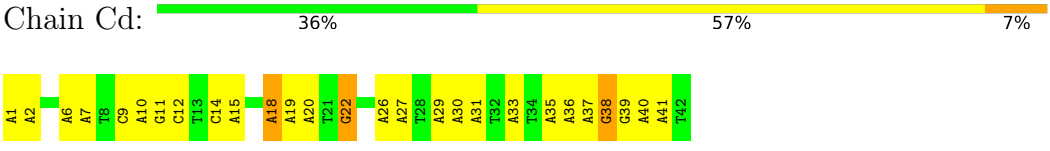
• Molecule 145: STAPLE STRAND

Chain Cc:



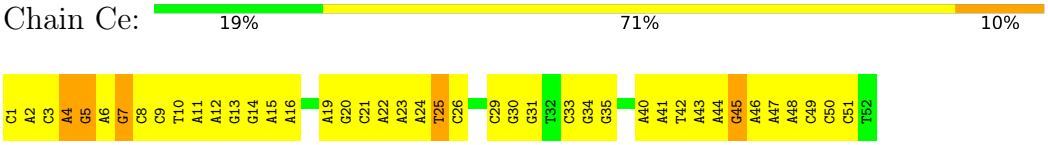
• Molecule 146: STAPLE STRAND

Chain Cd:



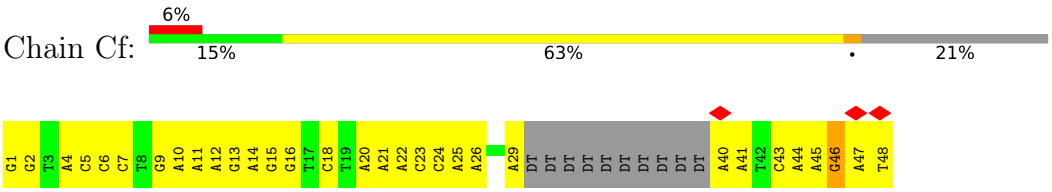
• Molecule 147: STAPLE STRAND

Chain Ce:



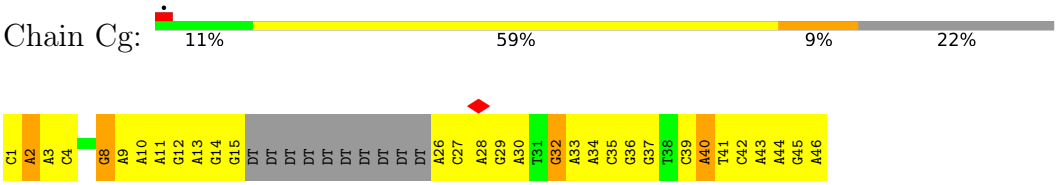
• Molecule 148: STAPLE STRAND

Chain Cf:



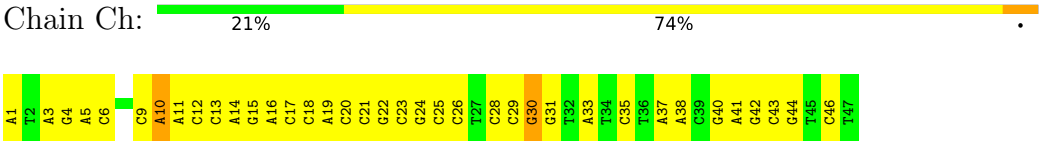
• Molecule 149: STAPLE STRAND

Chain Cg:



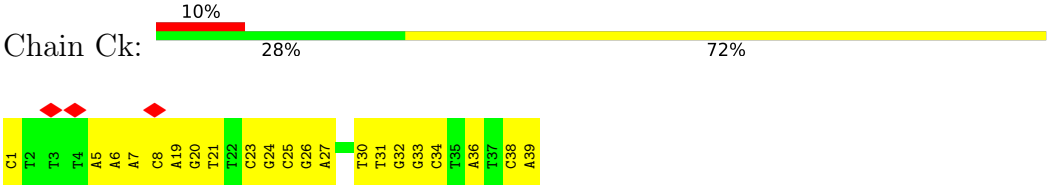
• Molecule 150: STAPLE STRAND

Chain Ch:



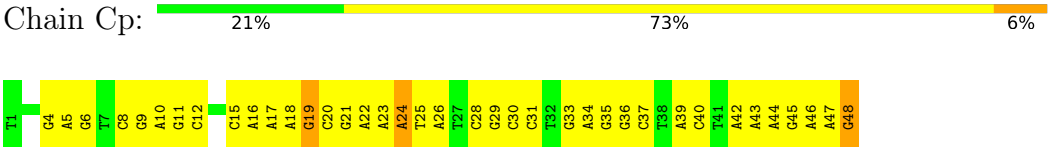
• Molecule 151: STAPLE STRAND

Chain Ck:



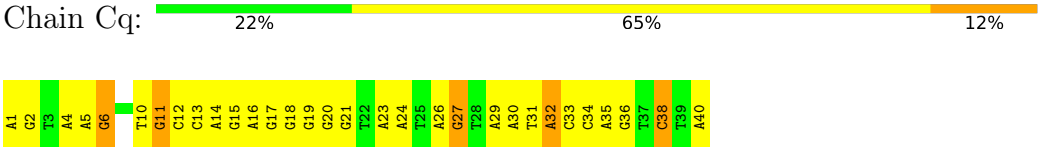
• Molecule 152: STAPLE STRAND

Chain Cp:



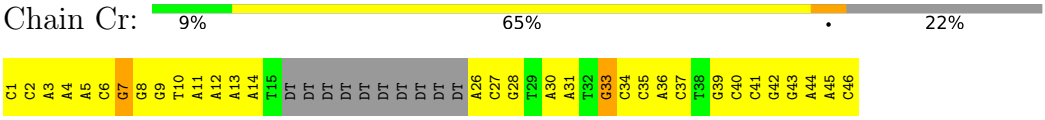
• Molecule 153: STAPLE STRAND

Chain Cq:



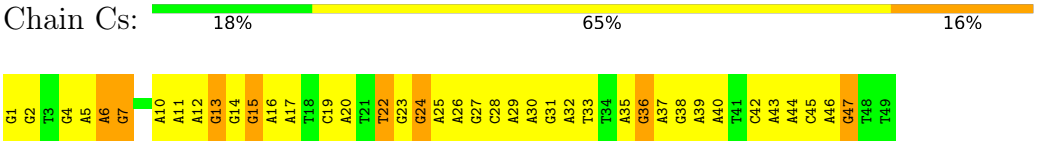
• Molecule 154: STAPLE STRAND

Chain Cr:



• Molecule 155: STAPLE STRAND

Chain Cs:

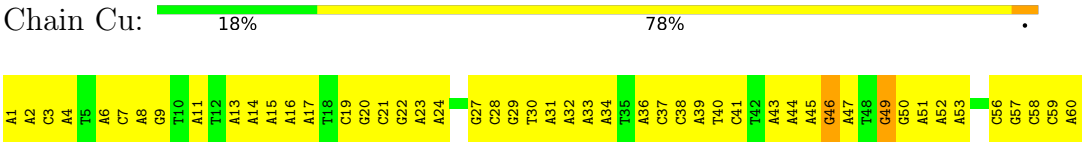


• Molecule 156: STAPLE STRAND

Chain Ct:

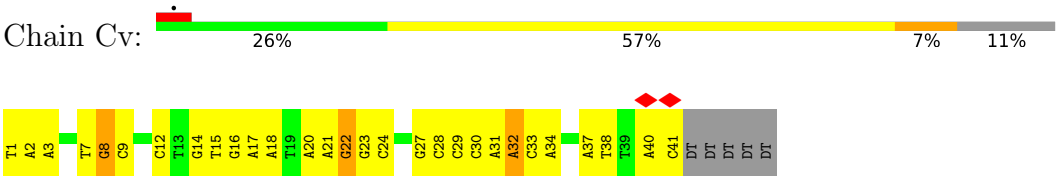
• Molecule 157: STAPLE STRAND

Chain Cu:



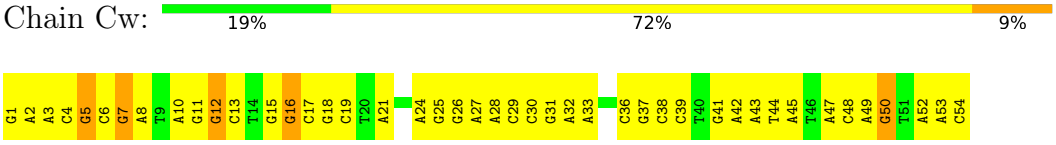
• Molecule 158: STAPLE STRAND

Chain Cv:



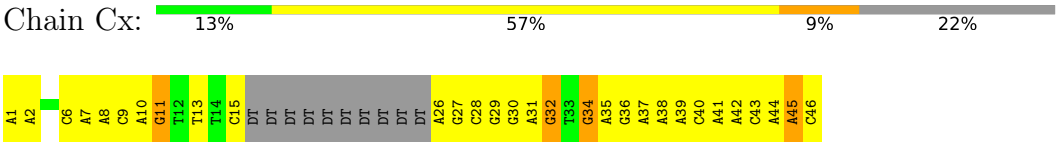
• Molecule 159: STAPLE STRAND

Chain Cw:



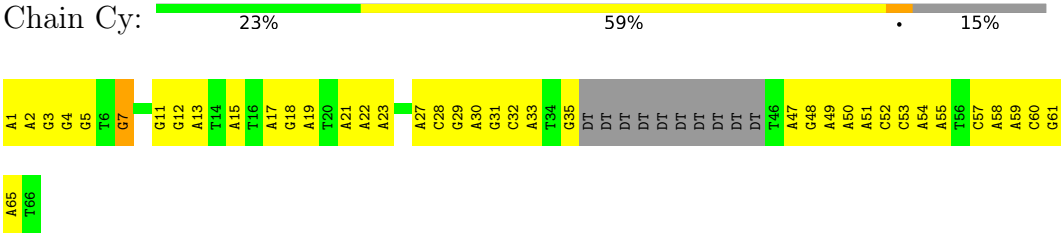
• Molecule 160: STAPLE STRAND

Chain Cx:



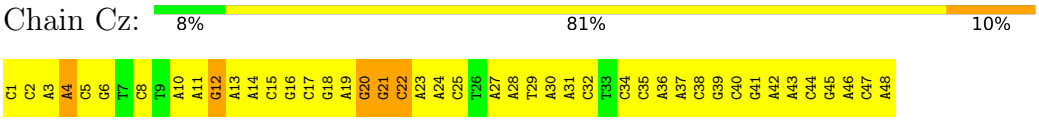
• Molecule 161: STAPLE STRAND

Chain Cy:



• Molecule 162: STAPLE STRAND

Chain Cz:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	28502	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	WIENER FILTER (RELION)	Depositor
Microscope	FEI POLARA 300	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	10	Depositor
Minimum defocus (nm)	890	Depositor
Maximum defocus (nm)	4460	Depositor
Magnification	39436	Depositor
Image detector	FEI FALCON I (4k x 4k)	Depositor
Maximum map value	0.509	Depositor
Minimum map value	-0.314	Depositor
Average map value	0.003	Depositor
Map value standard deviation	0.032	Depositor
Recommended contour level	0.1	Depositor
Map size (Å)	610.6, 610.6, 610.6	wwPDB
Map dimensions	172, 172, 172	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	3.55, 3.55, 3.55	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

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	1.62	60/165646 (0.0%)	2.35	13564/255486 (5.3%)
2	A0	1.60	1/1254 (0.1%)	2.59	132/1923 (6.9%)
3	A1	1.63	0/989	2.63	120/1514 (7.9%)
4	A2	1.68	0/1149	2.81	162/1762 (9.2%)
5	A3	1.61	0/888	2.61	93/1358 (6.8%)
6	A4	1.60	0/878	2.53	87/1352 (6.4%)
7	A5	1.63	0/1091	2.61	121/1673 (7.2%)
8	A6	1.60	1/1140 (0.1%)	2.51	114/1751 (6.5%)
9	A7	1.67	0/969	2.69	121/1484 (8.2%)
10	A8	1.61	1/1093 (0.1%)	2.47	99/1679 (5.9%)
11	AB	1.62	0/894	2.41	87/1370 (6.4%)
12	AC	1.65	0/1118	2.52	112/1723 (6.5%)
13	AD	1.65	0/1144	2.55	123/1759 (7.0%)
14	AE	1.61	0/823	2.38	76/1267 (6.0%)
15	AF	1.60	0/1082	2.32	88/1662 (5.3%)
16	AG	1.66	0/1057	2.57	118/1625 (7.3%)
17	AH	1.62	1/1079 (0.1%)	2.42	108/1656 (6.5%)
18	AI	1.67	1/1085 (0.1%)	2.65	129/1661 (7.8%)
19	AJ	1.60	0/1189	2.52	111/1828 (6.1%)
20	AK	1.58	3/1342 (0.2%)	2.44	127/2055 (6.2%)
21	AL	1.59	0/1085	2.33	85/1669 (5.1%)
22	AM	1.53	0/1107	2.30	94/1693 (5.6%)
23	AN	1.62	0/1084	2.46	107/1664 (6.4%)
24	AO	1.61	0/1075	2.43	106/1649 (6.4%)
25	AP	1.60	2/897 (0.2%)	2.40	82/1375 (6.0%)
26	AQ	1.69	1/1302 (0.1%)	2.64	151/1999 (7.6%)
27	AR	1.62	0/1094	2.47	105/1681 (6.2%)
28	AS	1.69	0/895	2.73	121/1372 (8.8%)
29	AT	1.64	1/1091 (0.1%)	2.50	119/1674 (7.1%)
30	AU	1.63	1/1085 (0.1%)	2.64	123/1661 (7.4%)
31	AV	1.58	3/1178 (0.3%)	2.45	116/1807 (6.4%)
32	AW	1.60	0/783	2.42	70/1202 (5.8%)
33	AX	1.64	1/1074 (0.1%)	2.57	111/1643 (6.8%)
34	AY	1.68	0/723	2.61	86/1109 (7.8%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
35	AZ	1.64	0/1211	2.48	123/1854 (6.6%)
36	Ab	1.60	0/1015	2.42	94/1557 (6.0%)
37	Ac	1.62	0/1252	2.57	137/1920 (7.1%)
38	Ad	1.55	0/1069	2.35	92/1637 (5.6%)
39	Af	1.64	0/1082	2.62	128/1656 (7.7%)
40	Ag	1.65	1/1098 (0.1%)	2.48	115/1689 (6.8%)
41	Ah	1.54	1/971 (0.1%)	2.31	76/1486 (5.1%)
42	Ai	1.65	0/809	2.55	99/1239 (8.0%)
43	Aj	1.64	0/1412	2.66	147/2166 (6.8%)
44	Ak	1.70	2/1065 (0.2%)	2.69	119/1637 (7.3%)
45	Al	1.55	1/1056 (0.1%)	2.37	96/1614 (5.9%)
46	Am	1.62	1/1077 (0.1%)	2.49	114/1650 (6.9%)
47	An	1.59	0/1088	2.34	93/1672 (5.6%)
48	Ao	1.64	1/810 (0.1%)	2.45	67/1241 (5.4%)
49	As	1.58	1/1085 (0.1%)	2.35	87/1666 (5.2%)
50	Au	1.56	0/1075	2.32	87/1650 (5.3%)
51	Av	1.61	0/975	2.47	100/1495 (6.7%)
52	Aw	1.59	0/1072	2.47	99/1642 (6.0%)
53	Ax	1.60	1/1067 (0.1%)	2.35	98/1640 (6.0%)
54	Ay	1.63	0/638	2.48	67/979 (6.8%)
55	Az	1.64	0/828	2.47	83/1273 (6.5%)
56	B0	1.61	2/1094 (0.2%)	2.33	99/1683 (5.9%)
57	B1	1.62	0/1013	2.52	106/1557 (6.8%)
58	B2	1.69	1/825 (0.1%)	2.62	91/1268 (7.2%)
59	B3	1.57	0/1094	2.36	99/1683 (5.9%)
60	B4	1.62	0/745	2.57	87/1142 (7.6%)
61	B5	1.61	0/917	2.49	93/1410 (6.6%)
62	B6	1.66	1/1047 (0.1%)	2.57	110/1614 (6.8%)
63	B7	1.59	1/996 (0.1%)	2.27	73/1533 (4.8%)
64	B8	1.56	0/730	2.41	68/1117 (6.1%)
65	B9	1.61	0/907	2.47	92/1393 (6.6%)
66	BB	1.63	0/1104	2.47	107/1700 (6.3%)
67	BC	1.59	0/897	2.48	86/1381 (6.2%)
68	BD	1.66	0/820	2.57	87/1265 (6.9%)
69	BE	1.62	0/1329	2.46	132/2044 (6.5%)
70	BF	1.56	0/906	2.34	67/1393 (4.8%)
71	BG	1.65	0/1134	2.65	127/1746 (7.3%)
72	BH	1.63	0/722	2.52	79/1107 (7.1%)
73	BI	1.56	0/609	2.41	57/935 (6.1%)
74	BJ	1.63	0/1205	2.40	110/1853 (5.9%)
75	BK	1.63	2/1005 (0.2%)	2.66	104/1543 (6.7%)
76	BL	1.60	0/1079	2.38	94/1657 (5.7%)
77	BM	1.60	1/959 (0.1%)	2.39	90/1475 (6.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
78	BN	1.62	0/1086	2.45	112/1669 (6.7%)
79	BO	1.57	1/1098 (0.1%)	2.34	97/1687 (5.7%)
80	BP	1.56	0/921	2.33	78/1414 (5.5%)
81	BQ	1.60	0/1087	2.41	100/1672 (6.0%)
82	BR	1.58	0/822	2.38	71/1263 (5.6%)
83	BS	1.59	0/1081	2.37	95/1660 (5.7%)
84	BT	1.63	0/843	2.32	68/1298 (5.2%)
85	BU	1.61	2/909 (0.2%)	2.32	69/1398 (4.9%)
86	BV	1.60	0/1003	2.42	97/1545 (6.3%)
87	BW	1.59	0/979	2.32	87/1507 (5.8%)
88	BX	1.61	0/1114	2.46	101/1717 (5.9%)
89	BY	1.60	0/976	2.42	89/1500 (5.9%)
90	BZ	1.61	0/976	2.44	98/1499 (6.5%)
91	Ba	1.61	0/1086	2.35	91/1670 (5.4%)
92	Bb	1.68	1/1093 (0.1%)	2.53	122/1679 (7.3%)
93	Bc	1.60	0/1135	2.31	93/1746 (5.3%)
94	Bd	1.62	0/937	2.34	81/1443 (5.6%)
95	Be	1.62	0/1096	2.39	96/1687 (5.7%)
96	Bf	1.69	0/1101	2.54	115/1694 (6.8%)
97	Bg	1.60	1/723 (0.1%)	2.37	67/1110 (6.0%)
98	Bh	1.63	0/880	2.33	78/1358 (5.7%)
99	Bi	1.63	1/1406 (0.1%)	2.47	142/2161 (6.6%)
100	Bj	1.60	0/1016	2.46	107/1560 (6.9%)
101	Bk	1.63	0/1085	2.53	120/1670 (7.2%)
102	Bl	1.67	0/1110	2.55	113/1709 (6.6%)
103	Bm	1.60	0/1078	2.40	101/1654 (6.1%)
104	Bn	1.67	0/1096	2.38	95/1693 (5.6%)
105	Bo	1.63	0/1292	2.37	117/1986 (5.9%)
106	Bp	1.67	1/1108 (0.1%)	2.59	118/1706 (6.9%)
107	Bq	1.64	0/881	2.43	88/1357 (6.5%)
108	Br	1.62	0/818	2.31	71/1259 (5.6%)
109	Bs	1.66	1/901 (0.1%)	2.51	93/1386 (6.7%)
110	C0	1.63	0/709	2.41	65/1091 (6.0%)
111	C1	1.58	0/824	2.57	98/1265 (7.7%)
112	C2	1.57	0/1259	2.39	110/1930 (5.7%)
113	C3	1.58	0/1077	2.44	99/1651 (6.0%)
114	C4	1.56	0/1269	2.39	122/1950 (6.3%)
115	C5	1.62	0/1433	2.43	130/2209 (5.9%)
116	C6	1.61	0/1097	2.58	116/1685 (6.9%)
117	C7	1.57	1/1181 (0.1%)	2.35	94/1817 (5.2%)
118	C8	1.61	1/998 (0.1%)	2.37	85/1533 (5.5%)
119	CB	1.55	2/1215 (0.2%)	2.26	93/1867 (5.0%)
120	CC	1.62	0/1082	2.50	97/1666 (5.8%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
121	CD	1.65	2/1106 (0.2%)	2.52	107/1702 (6.3%)
122	CE	1.61	0/917	2.61	89/1409 (6.3%)
123	CF	1.59	0/908	2.44	81/1395 (5.8%)
124	CG	1.62	0/1013	2.35	84/1562 (5.4%)
125	CH	1.59	0/1107	2.37	99/1707 (5.8%)
126	CI	1.61	0/996	2.45	97/1528 (6.3%)
127	CJ	1.61	0/1061	2.53	113/1626 (6.9%)
128	CK	1.63	0/1103	2.55	111/1695 (6.5%)
129	CL	1.59	0/1082	2.49	108/1659 (6.5%)
130	CM	1.65	0/903	2.62	104/1390 (7.5%)
131	CN	1.62	0/955	2.48	89/1474 (6.0%)
132	CO	1.60	1/1092 (0.1%)	2.46	105/1678 (6.3%)
133	CP	1.60	0/1279	2.41	123/1969 (6.2%)
134	CQ	1.65	0/623	2.53	68/952 (7.1%)
135	CR	1.56	0/1084	2.36	98/1667 (5.9%)
136	CS	1.60	0/867	2.43	75/1333 (5.6%)
137	CT	1.61	0/1102	2.48	110/1695 (6.5%)
138	CU	1.61	0/728	2.57	81/1119 (7.2%)
139	CV	1.59	0/1192	2.38	95/1830 (5.2%)
140	CW	1.62	0/629	2.35	60/965 (6.2%)
141	CX	1.61	1/1055 (0.1%)	2.36	90/1618 (5.6%)
142	CY	1.60	0/979	2.67	122/1501 (8.1%)
143	CZ	1.62	0/1113	2.58	125/1713 (7.3%)
144	Cb	1.60	3/999 (0.3%)	2.62	112/1532 (7.3%)
145	Cc	1.62	0/1174	2.45	122/1800 (6.8%)
146	Cd	1.58	0/965	2.48	92/1486 (6.2%)
147	Ce	1.60	1/1175 (0.1%)	2.48	124/1802 (6.9%)
148	Cf	1.60	0/862	2.50	86/1321 (6.5%)
149	Cg	1.64	0/827	2.53	88/1270 (6.9%)
150	Ch	1.62	0/1048	2.47	106/1605 (6.6%)
151	Ck	1.56	0/653	2.24	53/1004 (5.3%)
152	Cp	1.62	0/1095	2.48	106/1682 (6.3%)
153	Cq	1.62	0/930	2.46	84/1436 (5.8%)
154	Cr	1.64	1/816 (0.1%)	2.61	101/1251 (8.1%)
155	Cs	1.63	0/1140	2.59	110/1756 (6.3%)
156	Ct	1.58	1/991 (0.1%)	2.39	90/1521 (5.9%)
157	Cu	1.59	1/1366 (0.1%)	2.50	145/2096 (6.9%)
158	Cv	1.57	0/918	2.33	77/1409 (5.5%)
159	Cw	1.64	0/1232	2.53	133/1893 (7.0%)
160	Cx	1.66	0/820	2.63	94/1258 (7.5%)
161	Cy	1.60	0/1286	2.48	119/1977 (6.0%)
162	Cz	1.63	0/1090	2.57	123/1672 (7.4%)
All	All	1.62	117/330437 (0.0%)	2.41	29725/508627 (5.8%)

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	40	448
2	A0	0	6
3	A1	1	4
4	A2	0	2
6	A4	0	2
7	A5	0	4
8	A6	0	4
9	A7	0	3
10	A8	0	5
11	AB	0	1
12	AC	0	3
13	AD	0	2
15	AF	1	4
16	AG	0	3
17	AH	1	2
18	AI	1	2
19	AJ	0	4
20	AK	0	8
21	AL	0	4
22	AM	0	1
23	AN	1	3
24	AO	2	3
25	AP	0	1
26	AQ	2	6
27	AR	0	2
28	AS	0	4
29	AT	1	4
30	AU	1	4
31	AV	1	5
33	AX	0	3
34	AY	1	4
35	AZ	2	4
36	Ab	2	2
37	Ac	0	2
38	Ad	0	2
39	Af	0	1
40	Ag	0	1
41	Ah	1	3
42	Ai	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
43	Aj	1	5
44	Ak	0	7
45	Al	1	4
46	Am	0	2
47	An	1	4
48	Ao	1	2
49	As	0	3
50	Au	1	0
51	Av	0	6
52	Aw	1	2
53	Ax	0	2
54	Ay	0	1
55	Az	0	3
56	B0	0	6
57	B1	0	1
58	B2	0	2
59	B3	1	1
60	B4	1	5
61	B5	1	2
62	B6	1	5
63	B7	0	5
65	B9	1	3
66	BB	1	3
67	BC	0	1
68	BD	0	4
69	BE	0	3
70	BF	1	2
71	BG	0	7
72	BH	0	2
73	BI	0	2
74	BJ	3	2
75	BK	0	1
76	BL	1	5
77	BM	0	1
78	BN	0	1
79	BO	0	6
80	BP	0	2
81	BQ	1	2
82	BR	0	3
83	BS	0	5
84	BT	0	3
85	BU	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
86	BV	2	1
87	BW	1	3
88	BX	0	7
89	BY	1	2
90	BZ	0	1
91	Ba	0	3
92	Bb	0	2
93	Bc	1	4
94	Bd	1	0
95	Be	1	0
96	Bf	1	4
97	Bg	1	1
98	Bh	0	2
99	Bi	0	3
100	Bj	0	1
101	Bk	0	4
102	Bl	0	3
103	Bm	1	3
104	Bn	0	5
105	Bo	1	5
106	Bp	2	7
107	Bq	0	3
108	Br	0	1
109	Bs	0	1
111	C1	0	1
112	C2	1	2
113	C3	1	4
114	C4	0	2
115	C5	3	3
116	C6	0	3
117	C7	0	4
118	C8	0	3
119	CB	0	3
120	CC	2	3
121	CD	2	3
122	CE	1	2
123	CF	0	2
124	CG	0	4
125	CH	0	4
126	CI	1	4
127	CJ	0	5
128	CK	1	5

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Mol	Chain	#Chirality outliers	#Planarity outliers
129	CL	1	5
131	CN	0	1
132	CO	1	7
133	CP	0	5
134	CQ	0	1
135	CR	2	0
136	CS	0	4
137	CT	2	5
138	CU	0	1
139	CV	0	3
140	CW	4	2
141	CX	0	3
142	CY	1	0
143	CZ	0	4
144	Cb	1	2
145	Cc	1	5
146	Cd	0	3
147	Ce	4	4
148	Cf	0	1
149	Cg	0	4
150	Ch	0	2
152	Cp	0	3
153	Cq	0	5
154	Cr	0	2
155	Cs	1	8
156	Ct	1	0
157	Cu	1	2
158	Cv	0	3
159	Cw	0	5
160	Cx	0	4
161	Cy	0	2
162	Cz	0	6
All	All	121	919

All (117) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	3933	DA	O3'-P	-78.44	0.67	1.61
1	AA	437	DT	O3'-P	-54.86	0.95	1.61
1	AA	186	DT	O3'-P	-51.03	0.99	1.61
1	AA	4125	DG	O3'-P	41.42	2.10	1.61
1	AA	955	DG	O3'-P	38.46	2.07	1.61

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	3768	DT	O3'-P	32.20	1.99	1.61
1	AA	1618	DG	O3'-P	-30.79	1.24	1.61
1	AA	1506	DA	O3'-P	28.63	1.95	1.61
1	AA	1346	DT	O3'-P	26.75	1.93	1.61
1	AA	4536	DG	O3'-P	-26.29	1.29	1.61
1	AA	1084	DG	O3'-P	-25.44	1.30	1.61
1	AA	511	DA	O3'-P	-22.08	1.34	1.61
1	AA	35	DC	O3'-P	21.16	1.86	1.61
1	AA	2524	DA	O3'-P	17.43	1.82	1.61
1	AA	501	DC	O3'-P	16.58	1.81	1.61
1	AA	3342	DG	O3'-P	11.88	1.75	1.61
77	BM	42	DA	O3'-P	-10.36	1.48	1.61
1	AA	378	DG	O3'-P	7.06	1.69	1.61
1	AA	1970	DT	O3'-P	7.05	1.69	1.61
141	CX	27	DC	O3'-P	-6.08	1.53	1.61
1	AA	116	DG	O3'-P	-6.08	1.53	1.61
79	BO	9	DG	O3'-P	-5.97	1.53	1.61
75	BK	14	DA	O3'-P	-5.92	1.54	1.61
26	AQ	38	DG	C2-N3	5.60	1.37	1.32
31	AV	34	DA	N7-C5	-5.54	1.35	1.39
109	Bs	3	DG	C2-N3	5.53	1.37	1.32
49	As	10	DG	C2-N3	5.50	1.37	1.32
58	B2	8	DG	C2-N3	5.47	1.37	1.32
132	CO	46	DG	C2-N3	5.46	1.37	1.32
29	AT	42	DG	C2-N3	5.43	1.37	1.32
1	AA	2968	DG	C2-N3	5.41	1.37	1.32
1	AA	5016	DG	C2-N3	5.40	1.37	1.32
1	AA	6418	DG	C2-N3	5.40	1.37	1.32
1	AA	6399	DG	C2-N3	5.39	1.37	1.32
121	CD	28	DA	O3'-P	-5.37	1.54	1.61
1	AA	2637	DG	C2-N3	5.34	1.37	1.32
1	AA	1853	DG	C2-N3	5.34	1.37	1.32
1	AA	5288	DG	C2-N3	5.34	1.37	1.32
20	AK	50	DG	C2-N3	5.33	1.37	1.32
144	Cb	34	DA	N7-C5	-5.33	1.36	1.39
118	C8	18	DG	C2-N3	5.33	1.37	1.32
1	AA	6461	DG	C2-N3	5.32	1.37	1.32
10	A8	14	DG	C2-N3	5.32	1.37	1.32
1	AA	5395	DG	C2-N3	5.31	1.36	1.32
1	AA	2903	DG	C2-N3	5.29	1.36	1.32
1	AA	4515	DG	C2-N3	5.29	1.36	1.32
1	AA	5977	DG	C2-N3	5.28	1.36	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
62	B6	40	DG	C2-N3	5.26	1.36	1.32
1	AA	4826	DG	C2-N3	5.26	1.36	1.32
18	AI	34	DG	C2-N3	5.25	1.36	1.32
30	AU	26	DG	C2-N3	5.25	1.36	1.32
157	Cu	31	DA	P-O5'	-5.22	1.54	1.59
1	AA	2727	DG	C2-N3	5.21	1.36	1.32
1	AA	3397	DG	C2-N3	5.21	1.36	1.32
8	A6	24	DA	O3'-P	-5.20	1.54	1.61
40	Ag	11	DG	C2-N3	5.20	1.36	1.32
75	BK	24	DG	C2-N3	5.20	1.36	1.32
156	Ct	34	DG	C2-N3	5.20	1.36	1.32
1	AA	3066	DG	C2-N3	5.20	1.36	1.32
1	AA	1621	DC	O3'-P	-5.18	1.54	1.61
20	AK	37	DG	C2-N3	5.18	1.36	1.32
85	BU	40	DA	O3'-P	-5.18	1.54	1.61
1	AA	791	DG	C2-N3	5.18	1.36	1.32
1	AA	4926	DG	C2-N3	5.17	1.36	1.32
154	Cr	39	DG	C2-N3	5.16	1.36	1.32
1	AA	3479	DG	C2-N3	5.16	1.36	1.32
1	AA	3358	DG	C2-N3	5.15	1.36	1.32
117	C7	7	DG	C2-N3	5.14	1.36	1.32
1	AA	3426	DG	C2-N3	5.14	1.36	1.32
1	AA	1063	DT	O3'-P	-5.14	1.54	1.61
48	Ao	8	DG	C2-N3	5.14	1.36	1.32
1	AA	4865	DG	C2-N3	5.14	1.36	1.32
1	AA	952	DG	C4'-C3'	5.13	1.58	1.53
119	CB	19	DG	C2-N3	5.13	1.36	1.32
44	Ak	15	DG	C2-N3	5.12	1.36	1.32
1	AA	3381	DG	C2-N3	5.12	1.36	1.32
46	Am	22	DG	C2-N3	5.12	1.36	1.32
56	B0	13	DG	C2-N3	5.12	1.36	1.32
44	Ak	41	DA	O3'-P	-5.11	1.55	1.61
119	CB	39	DT	C4'-C3'	5.10	1.58	1.53
1	AA	3744	DG	N1-C2	5.10	1.41	1.37
25	AP	26	DG	C2-N3	5.10	1.36	1.32
31	AV	1	DG	C6-N1	5.10	1.43	1.39
85	BU	45	DG	C2-N3	5.09	1.36	1.32
33	AX	42	DA	O3'-P	-5.09	1.55	1.61
121	CD	24	DG	C2-N3	5.08	1.36	1.32
1	AA	2367	DG	C2-N3	5.08	1.36	1.32
1	AA	4080	DG	C2-N3	5.08	1.36	1.32
1	AA	4961	DG	C2-N3	5.08	1.36	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
144	Cb	4	DG	C2-N3	5.08	1.36	1.32
1	AA	4484	DG	C2-N3	5.08	1.36	1.32
1	AA	2694	DG	C2-N3	5.08	1.36	1.32
53	Ax	22	DG	C2-N3	5.08	1.36	1.32
1	AA	5806	DG	C2-N3	5.07	1.36	1.32
1	AA	4230	DG	C2-N3	5.07	1.36	1.32
2	A0	45	DG	C2-N3	5.07	1.36	1.32
56	B0	5	DG	C2-N3	5.06	1.36	1.32
45	Al	13	DG	C2-N3	5.04	1.36	1.32
97	Bg	8	DG	C2-N3	5.04	1.36	1.32
99	Bi	6	DG	C2-N3	5.04	1.36	1.32
1	AA	4740	DG	C2-N3	5.03	1.36	1.32
63	B7	34	DG	C2-N3	5.03	1.36	1.32
92	Bb	47	DG	C2-N3	5.03	1.36	1.32
1	AA	1836	DG	C2-N3	5.03	1.36	1.32
31	AV	10	DG	C2-N3	5.03	1.36	1.32
1	AA	4495	DG	C2-N3	5.02	1.36	1.32
20	AK	18	DG	C2-N3	5.02	1.36	1.32
106	Bp	31	DA	C6-N1	5.02	1.39	1.35
1	AA	2129	DG	C2-N3	5.02	1.36	1.32
25	AP	2	DG	C2-N3	5.02	1.36	1.32
41	Ah	29	DG	C2-N3	5.01	1.36	1.32
17	AH	10	DG	C2-N3	5.01	1.36	1.32
144	Cb	10	DG	C2-N3	5.01	1.36	1.32
147	Ce	10	DT	O3'-P	-5.01	1.55	1.61
1	AA	1644	DG	C2-N3	5.01	1.36	1.32
1	AA	4798	DG	C2-N3	5.01	1.36	1.32
1	AA	5469	DG	N1-C2	5.01	1.41	1.37

All (29725) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	378	DG	P-O3'-C3'	-68.56	37.43	119.70
1	AA	35	DC	P-O3'-C3'	-58.73	49.22	119.70
1	AA	511	DA	P-O3'-C3'	-52.67	56.49	119.70
1	AA	35	DC	O3'-P-O5'	-46.83	15.02	104.00
1	AA	378	DG	O3'-P-O5'	-45.16	18.19	104.00
1	AA	4536	DG	P-O3'-C3'	-42.44	68.77	119.70
1	AA	3342	DG	P-O3'-C3'	-39.16	72.71	119.70
1	AA	1970	DT	P-O3'-C3'	37.52	164.72	119.70
1	AA	2524	DA	P-O3'-C3'	-37.12	75.16	119.70
1	AA	3933	DA	OP2-P-O3'	-36.95	23.91	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	437	DT	P-O3'-C3'	-30.42	83.20	119.70
1	AA	116	DG	P-O3'-C3'	28.70	154.14	119.70
1	AA	437	DT	O3'-P-O5'	-27.94	50.91	104.00
1	AA	2524	DA	O3'-P-O5'	-27.52	51.70	104.00
1	AA	1506	DA	P-O3'-C3'	25.61	150.43	119.70
1	AA	511	DA	OP2-P-O3'	25.16	160.55	105.20
1	AA	3236	DC	OP2-P-O3'	23.48	156.85	105.20
1	AA	4536	DG	O3'-P-O5'	-23.14	60.03	104.00
1	AA	116	DG	OP2-P-O3'	22.60	154.92	105.20
1	AA	511	DA	OP1-P-O3'	-22.23	56.29	105.20
1	AA	511	DA	O3'-P-O5'	-21.91	62.38	104.00
1	AA	186	DT	P-O3'-C3'	-21.83	93.50	119.70
1	AA	3236	DC	P-O3'-C3'	-21.61	93.77	119.70
1	AA	3236	DC	O3'-P-O5'	-21.40	63.34	104.00
1	AA	3342	DG	O3'-P-O5'	-21.08	63.95	104.00
142	CY	15	DA	P-O3'-C3'	20.28	144.04	119.70
1	AA	5266	DT	P-O3'-C3'	-20.24	95.41	119.70
34	AY	11	DA	P-O3'-C3'	19.76	143.42	119.70
52	Aw	1	DG	P-O3'-C3'	19.43	143.02	119.70
46	Am	23	DC	P-O3'-C3'	18.93	142.42	119.70
76	BL	39	DC	P-O3'-C3'	18.86	142.34	119.70
23	AN	11	DA	P-O3'-C3'	18.57	141.98	119.70
63	B7	27	DA	P-O3'-C3'	18.09	141.41	119.70
1	AA	7052	DA	P-O3'-C3'	18.07	141.39	119.70
155	Cs	15	DG	P-O3'-C3'	18.02	141.33	119.70
1	AA	1970	DT	OP2-P-O3'	-17.96	65.70	105.20
5	A3	31	DG	P-O3'-C3'	17.35	140.52	119.70
1	AA	4125	DG	P-O3'-C3'	17.26	140.41	119.70
8	A6	24	DA	P-O3'-C3'	17.00	140.10	119.70
43	Aj	31	DT	P-O3'-C3'	16.99	140.09	119.70
1	AA	955	DG	P-O3'-C3'	16.79	139.85	119.70
10	A8	1	DT	P-O3'-C3'	16.69	139.73	119.70
95	Be	3	DC	P-O3'-C3'	16.59	139.61	119.70
147	Ce	1	DC	P-O3'-C3'	16.56	139.57	119.70
1	AA	4536	DG	OP2-P-O3'	16.47	141.43	105.20
44	Ak	41	DA	P-O3'-C3'	16.41	139.39	119.70
1	AA	116	DG	O3'-P-O5'	-16.28	73.06	104.00
1	AA	3768	DT	O3'-P-O5'	16.25	134.87	104.00
1	AA	6739	DG	P-O3'-C3'	16.09	139.01	119.70
1	AA	4802	DA	P-O3'-C3'	16.08	138.99	119.70
3	A1	19	DA	P-O3'-C3'	16.00	138.90	119.70
26	AQ	47	DG	P-O3'-C3'	15.92	138.81	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	AR	62	DG	P-O3'-C3'	15.81	138.68	119.70
1	AA	3933	DA	OP1-P-O3'	15.67	139.67	105.20
150	Ch	11	DA	P-O3'-C3'	15.65	138.48	119.70
129	CL	47	DA	P-O3'-C3'	15.55	138.36	119.70
144	Cb	19	DA	P-O3'-C3'	15.51	138.31	119.70
1	AA	5763	DT	P-O3'-C3'	15.30	138.06	119.70
7	A5	39	DT	P-O3'-C3'	15.29	138.05	119.70
70	BF	1	DC	P-O3'-C3'	15.20	137.94	119.70
1	AA	6667	DA	P-O3'-C3'	15.11	137.83	119.70
38	Ad	23	DC	P-O3'-C3'	15.06	137.78	119.70
65	B9	1	DA	P-O3'-C3'	15.02	137.72	119.70
20	AK	35	DA	P-O3'-C3'	14.94	137.63	119.70
116	C6	11	DA	P-O3'-C3'	14.92	137.60	119.70
1	AA	501	DC	P-O3'-C3'	-14.91	101.81	119.70
132	CO	31	DA	P-O3'-C3'	14.91	137.59	119.70
1	AA	4652	DA	P-O3'-C3'	14.81	137.47	119.70
5	A3	23	DA	P-O3'-C3'	14.71	137.35	119.70
154	Cr	42	DG	P-O3'-C3'	14.66	137.30	119.70
5	A3	39	DA	P-O3'-C3'	14.66	137.29	119.70
160	Cx	41	DA	P-O3'-C3'	14.53	137.14	119.70
26	AQ	31	DA	P-O3'-C3'	14.52	137.13	119.70
1	AA	3342	DG	OP1-P-O3'	14.46	137.01	105.20
1	AA	2732	DA	N1-C6-N6	14.43	127.26	118.60
1	AA	2647	DA	N1-C6-N6	14.41	127.25	118.60
1	AA	5978	DA	N1-C6-N6	14.29	127.17	118.60
30	AU	36	DA	N1-C6-N6	14.28	127.17	118.60
58	B2	4	DA	N1-C6-N6	14.25	127.15	118.60
61	B5	15	DA	N1-C6-N6	14.18	127.11	118.60
1	AA	1618	DG	OP1-P-O3'	-14.17	74.03	105.20
147	Ce	12	DA	N1-C6-N6	14.13	127.08	118.60
38	Ad	14	DA	N1-C6-N6	14.13	127.08	118.60
122	CE	12	DA	N1-C6-N6	14.10	127.06	118.60
4	A2	45	DA	N1-C6-N6	14.09	127.06	118.60
114	C4	14	DG	P-O3'-C3'	14.08	136.60	119.70
86	BV	1	DC	P-O3'-C3'	14.06	136.57	119.70
43	Aj	20	DA	N1-C6-N6	14.04	127.03	118.60
122	CE	7	DA	N1-C6-N6	14.04	127.03	118.60
50	Au	38	DT	P-O3'-C3'	14.04	136.55	119.70
43	Aj	18	DA	N1-C6-N6	14.02	127.01	118.60
1	AA	437	DT	OP1-P-O3'	13.98	135.96	105.20
1	AA	2870	DA	N1-C6-N6	13.97	126.98	118.60
33	AX	39	DA	N1-C6-N6	13.96	126.97	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
75	BK	4	DA	N1-C6-N6	13.94	126.96	118.60
76	BL	44	DA	N1-C6-N6	13.92	126.95	118.60
1	AA	2645	DA	N1-C6-N6	13.91	126.94	118.60
69	BE	63	DT	P-O3'-C3'	13.89	136.37	119.70
144	Cb	32	DA	N1-C6-N6	13.89	126.93	118.60
138	CU	1	DA	P-O3'-C3'	13.87	136.35	119.70
1	AA	501	DC	O3'-P-O5'	-13.83	77.72	104.00
1	AA	4026	DG	O4'-C4'-C3'	-13.82	97.70	106.00
1	AA	5812	DA	N1-C6-N6	13.82	126.89	118.60
141	CX	22	DA	N1-C6-N6	13.81	126.89	118.60
1	AA	5967	DA	N1-C6-N6	13.81	126.89	118.60
43	Aj	8	DA	N1-C6-N6	13.81	126.89	118.60
1	AA	5733	DA	N1-C6-N6	13.79	126.88	118.60
1	AA	6965	DA	N1-C6-N6	13.79	126.88	118.60
122	CE	8	DA	N1-C6-N6	13.78	126.87	118.60
100	Bj	34	DA	O4'-C4'-C3'	-13.77	97.74	106.00
33	AX	43	DA	N1-C6-N6	13.76	126.86	118.60
141	CX	27	DC	P-O3'-C3'	13.76	136.21	119.70
118	C8	32	DA	N1-C6-N6	13.74	126.85	118.60
161	Cy	15	DA	P-O3'-C3'	13.74	136.19	119.70
1	AA	5329	DA	N1-C6-N6	13.73	126.84	118.60
5	A3	15	DT	P-O3'-C3'	13.73	136.18	119.70
75	BK	21	DA	N1-C6-N6	13.72	126.83	118.60
4	A2	38	DA	N1-C6-N6	13.71	126.82	118.60
75	BK	11	DA	N1-C6-N6	13.68	126.81	118.60
1	AA	4487	DA	N1-C6-N6	13.67	126.80	118.60
48	Ao	14	DA	N1-C6-N6	13.67	126.80	118.60
1	AA	3591	DA	N1-C6-N6	13.65	126.79	118.60
1	AA	6037	DA	N1-C6-N6	13.65	126.79	118.60
44	Ak	41	DA	N1-C6-N6	13.65	126.79	118.60
20	AK	41	DA	N1-C6-N6	13.65	126.79	118.60
1	AA	3047	DA	N1-C6-N6	13.64	126.78	118.60
62	B6	30	DG	P-O3'-C3'	13.63	136.06	119.70
83	BS	46	DG	O4'-C4'-C3'	-13.62	97.83	106.00
79	BO	6	DA	N1-C6-N6	13.61	126.76	118.60
1	AA	3031	DA	N1-C6-N6	13.60	126.76	118.60
1	AA	4951	DA	N1-C6-N6	13.60	126.76	118.60
1	AA	4342	DA	O4'-C4'-C3'	-13.60	97.84	106.00
137	CT	28	DA	N1-C6-N6	13.60	126.76	118.60
1	AA	1464	DA	N1-C6-N6	13.59	126.75	118.60
1	AA	5784	DA	N1-C6-N6	13.54	126.72	118.60
144	Cb	31	DA	N1-C6-N6	13.53	126.72	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5809	DA	N1-C6-N6	13.52	126.71	118.60
128	CK	40	DA	N1-C6-N6	13.52	126.71	118.60
1	AA	591	DA	N1-C6-N6	13.52	126.71	118.60
52	Aw	14	DA	N1-C6-N6	13.52	126.71	118.60
123	CF	20	DA	N1-C6-N6	13.51	126.70	118.60
43	Aj	14	DA	N1-C6-N6	13.51	126.70	118.60
79	BO	4	DA	N1-C6-N6	13.50	126.70	118.60
1	AA	3219	DA	N1-C6-N6	13.50	126.70	118.60
1	AA	6543	DG	P-O3'-C3'	13.49	135.89	119.70
76	BL	32	DA	N1-C6-N6	13.49	126.70	118.60
122	CE	16	DA	N1-C6-N6	13.48	126.69	118.60
1	AA	1618	DG	OP2-P-O3'	13.47	134.84	105.20
1	AA	3292	DA	N1-C6-N6	13.47	126.68	118.60
1	AA	5070	DA	N1-C6-N6	13.46	126.68	118.60
1	AA	5191	DA	N1-C6-N6	13.46	126.68	118.60
19	AJ	15	DA	N1-C6-N6	13.46	126.68	118.60
99	Bi	60	DA	N1-C6-N6	13.46	126.67	118.60
97	Bg	36	DA	N1-C6-N6	13.45	126.67	118.60
132	CO	36	DA	N1-C6-N6	13.43	126.66	118.60
1	AA	6398	DA	N1-C6-N6	13.42	126.65	118.60
10	A8	9	DA	N1-C6-N6	13.41	126.64	118.60
1	AA	6044	DA	N1-C6-N6	13.41	126.64	118.60
1	AA	3107	DA	N1-C6-N6	13.40	126.64	118.60
67	BC	18	DG	O4'-C4'-C3'	-13.40	97.96	106.00
1	AA	6162	DG	P-O3'-C3'	13.40	135.78	119.70
1	AA	1568	DA	N1-C6-N6	13.40	126.64	118.60
1	AA	5100	DG	P-O3'-C3'	13.40	135.78	119.70
1	AA	1035	DA	N1-C6-N6	13.39	126.64	118.60
1	AA	5781	DA	N1-C6-N6	13.39	126.63	118.60
121	CD	17	DA	N1-C6-N6	13.39	126.63	118.60
155	Cs	10	DA	N1-C6-N6	13.38	126.63	118.60
141	CX	23	DA	N1-C6-N6	13.37	126.62	118.60
112	C2	34	DA	N1-C6-N6	13.37	126.62	118.60
43	Aj	40	DA	N1-C6-N6	13.36	126.62	118.60
1	AA	5199	DA	N1-C6-N6	13.35	126.61	118.60
1	AA	5313	DA	N1-C6-N6	13.35	126.61	118.60
1	AA	843	DA	N1-C6-N6	13.35	126.61	118.60
1	AA	5251	DA	N1-C6-N6	13.35	126.61	118.60
116	C6	28	DA	N1-C6-N6	13.34	126.60	118.60
1	AA	6450	DA	N1-C6-N6	13.34	126.60	118.60
129	CL	20	DA	N1-C6-N6	13.34	126.60	118.60
10	A8	37	DA	N1-C6-N6	13.33	126.60	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
44	Ak	5	DA	N1-C6-N6	13.32	126.59	118.60
1	AA	4945	DA	N1-C6-N6	13.32	126.59	118.60
115	C5	38	DA	N1-C6-N6	13.32	126.59	118.60
52	Aw	15	DA	N1-C6-N6	13.31	126.59	118.60
43	Aj	16	DA	N1-C6-N6	13.31	126.58	118.60
35	AZ	26	DA	N1-C6-N6	13.30	126.58	118.60
1	AA	4972	DA	N1-C6-N6	13.29	126.58	118.60
39	Af	5	DA	N1-C6-N6	13.29	126.58	118.60
2	A0	51	DA	N1-C6-N6	13.29	126.57	118.60
112	C2	44	DA	N1-C6-N6	13.28	126.57	118.60
36	Ab	45	DA	N1-C6-N6	13.28	126.56	118.60
146	Cd	18	DA	O4'-C4'-C3'	-13.28	98.03	106.00
66	BB	22	DA	N1-C6-N6	13.27	126.56	118.60
88	BX	46	DA	O4'-C4'-C3'	-13.27	98.04	106.00
1	AA	5734	DA	N1-C6-N6	13.26	126.56	118.60
30	AU	39	DA	N1-C6-N6	13.26	126.56	118.60
116	C6	29	DA	N1-C6-N6	13.25	126.55	118.60
34	AY	12	DG	P-O3'-C3'	13.25	135.59	119.70
117	C7	2	DA	N1-C6-N6	13.25	126.55	118.60
1	AA	5813	DA	N1-C6-N6	13.24	126.55	118.60
1	AA	1457	DA	N1-C6-N6	13.24	126.55	118.60
1	AA	6406	DA	N1-C6-N6	13.24	126.55	118.60
44	Ak	16	DA	N1-C6-N6	13.24	126.54	118.60
134	CQ	14	DA	N1-C6-N6	13.24	126.54	118.60
1	AA	4948	DA	N1-C6-N6	13.24	126.54	118.60
91	Ba	7	DA	N1-C6-N6	13.23	126.54	118.60
130	CM	6	DA	N1-C6-N6	13.22	126.53	118.60
79	BO	5	DA	N1-C6-N6	13.22	126.53	118.60
150	Ch	16	DA	N1-C6-N6	13.21	126.52	118.60
142	CY	31	DA	P-O3'-C3'	13.18	135.52	119.70
1	AA	5427	DA	N1-C6-N6	13.18	126.51	118.60
144	Cb	38	DA	N1-C6-N6	13.18	126.51	118.60
1	AA	2918	DA	N1-C6-N6	13.17	126.50	118.60
33	AX	38	DA	N1-C6-N6	13.16	126.50	118.60
1	AA	1797	DA	N1-C6-N6	13.16	126.50	118.60
1	AA	1925	DA	N1-C6-N6	13.16	126.50	118.60
116	C6	32	DA	N1-C6-N6	13.16	126.50	118.60
1	AA	5737	DA	N1-C6-N6	13.16	126.50	118.60
122	CE	23	DA	N1-C6-N6	13.15	126.49	118.60
1	AA	3343	DA	N1-C6-N6	13.15	126.49	118.60
1	AA	4947	DA	N1-C6-N6	13.14	126.48	118.60
85	BU	38	DA	N1-C6-N6	13.14	126.48	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
138	CU	13	DC	O4'-C4'-C3'	-13.14	98.12	106.00
1	AA	5311	DA	N1-C6-N6	13.12	126.47	118.60
112	C2	51	DA	N1-C6-N6	13.12	126.47	118.60
4	A2	39	DA	N1-C6-N6	13.11	126.47	118.60
1	AA	927	DA	N1-C6-N6	13.11	126.47	118.60
1	AA	1322	DA	N1-C6-N6	13.11	126.47	118.60
160	Cx	26	DA	N1-C6-N6	13.10	126.46	118.60
1	AA	6508	DC	P-O3'-C3'	13.10	135.42	119.70
1	AA	3697	DA	N1-C6-N6	13.10	126.46	118.60
1	AA	5980	DA	N1-C6-N6	13.09	126.46	118.60
1	AA	3421	DA	N1-C6-N6	13.09	126.45	118.60
1	AA	2373	DA	N1-C6-N6	13.08	126.45	118.60
112	C2	49	DA	N1-C6-N6	13.08	126.45	118.60
43	Aj	39	DG	P-O3'-C3'	13.08	135.40	119.70
1	AA	4367	DA	N1-C6-N6	13.07	126.44	118.60
1	AA	2665	DA	N1-C6-N6	13.07	126.44	118.60
1	AA	2919	DA	N1-C6-N6	13.06	126.44	118.60
43	Aj	17	DA	N1-C6-N6	13.06	126.43	118.60
162	Cz	36	DA	N1-C6-N6	13.06	126.43	118.60
1	AA	2372	DA	N1-C6-N6	13.05	126.43	118.60
1	AA	2895	DA	N1-C6-N6	13.05	126.43	118.60
1	AA	5213	DA	N1-C6-N6	13.05	126.43	118.60
83	BS	16	DA	N1-C6-N6	13.05	126.43	118.60
114	C4	2	DG	P-O3'-C3'	13.05	135.36	119.70
1	AA	5318	DA	N1-C6-N6	13.04	126.43	118.60
70	BF	15	DA	N1-C6-N6	13.05	126.43	118.60
58	B2	7	DT	P-O3'-C3'	13.04	135.35	119.70
55	Az	39	DA	N1-C6-N6	13.04	126.42	118.60
10	A8	13	DA	N1-C6-N6	13.04	126.42	118.60
113	C3	28	DA	N1-C6-N6	13.03	126.42	118.60
1	AA	4953	DA	N1-C6-N6	13.03	126.42	118.60
18	AI	3	DA	N1-C6-N6	13.03	126.42	118.60
43	Aj	11	DA	N1-C6-N6	13.03	126.42	118.60
1	AA	5816	DA	N1-C6-N6	13.02	126.41	118.60
1	AA	2943	DA	N1-C6-N6	13.02	126.41	118.60
5	A3	34	DA	N1-C6-N6	13.02	126.41	118.60
1	AA	5808	DA	N1-C6-N6	13.02	126.41	118.60
146	Cd	26	DA	P-O3'-C3'	13.02	135.32	119.70
123	CF	36	DA	N1-C6-N6	13.01	126.41	118.60
20	AK	40	DA	N1-C6-N6	13.01	126.41	118.60
38	Ad	16	DA	N1-C6-N6	13.00	126.40	118.60
23	AN	5	DA	N1-C6-N6	13.00	126.40	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A2	35	DA	N1-C6-N6	12.99	126.40	118.60
4	A2	25	DA	N1-C6-N6	12.99	126.39	118.60
7	A5	2	DA	N1-C6-N6	12.98	126.39	118.60
38	Ad	20	DA	N1-C6-N6	12.98	126.39	118.60
1	AA	3296	DA	N1-C6-N6	12.98	126.39	118.60
24	AO	30	DG	O4'-C4'-C3'	-12.98	98.21	106.00
1	AA	3418	DA	N1-C6-N6	12.97	126.38	118.60
1	AA	2737	DA	N1-C6-N6	12.97	126.38	118.60
1	AA	3324	DA	N1-C6-N6	12.97	126.38	118.60
128	CK	19	DA	N1-C6-N6	12.97	126.38	118.60
1	AA	1481	DA	N1-C6-N6	12.96	126.37	118.60
1	AA	1740	DA	N1-C6-N6	12.96	126.37	118.60
1	AA	1567	DA	N1-C6-N6	12.95	126.37	118.60
1	AA	6077	DA	N1-C6-N6	12.95	126.37	118.60
20	AK	35	DA	N1-C6-N6	12.95	126.37	118.60
156	Ct	42	DA	O4'-C4'-C3'	-12.95	98.23	106.00
1	AA	4861	DA	N1-C6-N6	12.95	126.37	118.60
1	AA	3314	DA	N1-C6-N6	12.94	126.36	118.60
1	AA	6071	DA	N1-C6-N6	12.94	126.36	118.60
1	AA	4862	DA	N1-C6-N6	12.94	126.36	118.60
152	Cp	34	DA	N1-C6-N6	12.94	126.36	118.60
1	AA	5688	DA	N1-C6-N6	12.94	126.36	118.60
160	Cx	39	DA	N1-C6-N6	12.94	126.36	118.60
1	AA	816	DA	N1-C6-N6	12.93	126.36	118.60
1	AA	5756	DA	N1-C6-N6	12.92	126.35	118.60
1	AA	1605	DA	N1-C6-N6	12.92	126.35	118.60
52	Aw	24	DA	N1-C6-N6	12.92	126.35	118.60
79	BO	19	DA	P-O3'-C3'	12.91	135.20	119.70
57	B1	52	DA	N1-C6-N6	12.91	126.35	118.60
1	AA	2838	DA	N1-C6-N6	12.91	126.35	118.60
116	C6	10	DA	N1-C6-N6	12.91	126.34	118.60
1	AA	6062	DA	N1-C6-N6	12.90	126.34	118.60
20	AK	23	DA	N1-C6-N6	12.90	126.34	118.60
1	AA	32	DA	N1-C6-N6	12.90	126.34	118.60
33	AX	42	DA	N1-C6-N6	12.90	126.34	118.60
142	CY	4	DA	N1-C6-N6	12.90	126.34	118.60
1	AA	4255	DA	N1-C6-N6	12.90	126.34	118.60
33	AX	48	DA	N1-C6-N6	12.89	126.34	118.60
125	CH	18	DC	O4'-C4'-C3'	-12.89	98.26	106.00
1	AA	3162	DA	N1-C6-N6	12.89	126.33	118.60
161	Cy	22	DA	N1-C6-N6	12.88	126.33	118.60
1	AA	5807	DA	N1-C6-N6	12.88	126.33	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
33	AX	29	DA	N1-C6-N6	12.88	126.33	118.60
1	AA	1660	DG	P-O3'-C3'	12.88	135.16	119.70
1	AA	4269	DA	N1-C6-N6	12.88	126.33	118.60
46	Am	17	DA	N1-C6-N6	12.88	126.33	118.60
128	CK	7	DA	N1-C6-N6	12.88	126.33	118.60
130	CM	26	DA	N1-C6-N6	12.88	126.33	118.60
1	AA	1480	DA	N1-C6-N6	12.88	126.33	118.60
155	Cs	11	DA	N1-C6-N6	12.87	126.32	118.60
120	CC	35	DA	N1-C6-N6	12.87	126.32	118.60
1	AA	5542	DA	N1-C6-N6	12.86	126.31	118.60
40	Ag	12	DA	N1-C6-N6	12.86	126.31	118.60
48	Ao	15	DT	P-O3'-C3'	12.86	135.13	119.70
132	CO	16	DA	N1-C6-N6	12.85	126.31	118.60
102	Bl	35	DA	N1-C6-N6	12.85	126.31	118.60
117	C7	4	DA	N1-C6-N6	12.85	126.31	118.60
4	A2	34	DA	N1-C6-N6	12.85	126.31	118.60
7	A5	37	DA	N1-C6-N6	12.84	126.31	118.60
1	AA	3202	DA	N1-C6-N6	12.84	126.30	118.60
75	BK	10	DA	N1-C6-N6	12.83	126.30	118.60
128	CK	32	DA	N1-C6-N6	12.83	126.30	118.60
1	AA	3540	DA	N1-C6-N6	12.83	126.30	118.60
1	AA	6051	DA	N1-C6-N6	12.83	126.30	118.60
99	Bi	47	DA	N1-C6-N6	12.83	126.30	118.60
137	CT	11	DT	P-O3'-C3'	12.83	135.09	119.70
94	Bd	6	DA	N1-C6-N6	12.83	126.30	118.60
4	A2	46	DA	N1-C6-N6	12.82	126.29	118.60
22	AM	17	DG	O4'-C4'-C3'	-12.81	98.31	106.00
121	CD	28	DA	N1-C6-N6	12.81	126.29	118.60
59	B3	48	DA	N1-C6-N6	12.81	126.29	118.60
1	AA	4424	DG	P-O3'-C3'	12.81	135.07	119.70
112	C2	36	DA	N1-C6-N6	12.80	126.28	118.60
116	C6	33	DA	N1-C6-N6	12.80	126.28	118.60
1	AA	548	DA	N1-C6-N6	12.80	126.28	118.60
1	AA	991	DA	O4'-C4'-C3'	-12.80	98.32	106.00
1	AA	435	DG	O4'-C4'-C3'	-12.80	98.32	106.00
1	AA	3241	DA	N1-C6-N6	12.80	126.28	118.60
1	AA	426	DG	P-O3'-C3'	12.79	135.05	119.70
1	AA	3590	DA	N1-C6-N6	12.79	126.28	118.60
18	AI	44	DA	N1-C6-N6	12.79	126.28	118.60
1	AA	2948	DA	N1-C6-N6	12.79	126.27	118.60
106	Bp	4	DA	N1-C6-N6	12.79	126.27	118.60
107	Bq	38	DA	N1-C6-N6	12.79	126.27	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5011	DA	N1-C6-N6	12.79	126.27	118.60
75	BK	8	DA	N1-C6-N6	12.79	126.27	118.60
1	AA	5377	DC	O4'-C4'-C3'	-12.78	98.33	106.00
9	A7	47	DA	N1-C6-N6	12.78	126.27	118.60
48	Ao	9	DA	N1-C6-N6	12.78	126.27	118.60
1	AA	5732	DA	N1-C6-N6	12.78	126.27	118.60
91	Ba	23	DA	P-O3'-C3'	12.78	135.03	119.70
83	BS	36	DA	N1-C6-N6	12.77	126.26	118.60
152	Cp	43	DA	N1-C6-N6	12.77	126.26	118.60
1	AA	2999	DA	N1-C6-N6	12.77	126.26	118.60
43	Aj	44	DA	N1-C6-N6	12.77	126.26	118.60
1	AA	1383	DA	N1-C6-N6	12.76	126.26	118.60
1	AA	1583	DA	N1-C6-N6	12.76	126.26	118.60
1	AA	6074	DA	N1-C6-N6	12.76	126.26	118.60
35	AZ	37	DA	N1-C6-N6	12.76	126.26	118.60
72	BH	2	DA	N1-C6-N6	12.76	126.25	118.60
9	A7	40	DA	N1-C6-N6	12.76	126.25	118.60
1	AA	1782	DG	P-O3'-C3'	12.75	135.00	119.70
1	AA	1928	DA	N1-C6-N6	12.75	126.25	118.60
1	AA	1412	DA	N1-C6-N6	12.75	126.25	118.60
1	AA	6291	DA	N1-C6-N6	12.75	126.25	118.60
27	AR	46	DA	N1-C6-N6	12.75	126.25	118.60
158	Cv	31	DA	N1-C6-N6	12.75	126.25	118.60
18	AI	41	DA	N1-C6-N6	12.75	126.25	118.60
48	Ao	18	DA	N1-C6-N6	12.75	126.25	118.60
91	Ba	46	DG	O4'-C4'-C3'	-12.75	98.35	106.00
1	AA	5721	DA	N1-C6-N6	12.74	126.25	118.60
1	AA	6290	DA	N1-C6-N6	12.74	126.24	118.60
1	AA	6542	DT	O4'-C4'-C3'	-12.74	98.36	106.00
1	AA	7004	DG	O4'-C4'-C3'	-12.74	98.36	106.00
4	A2	37	DA	N1-C6-N6	12.74	126.24	118.60
1	AA	3285	DA	N1-C6-N6	12.74	126.24	118.60
137	CT	22	DA	N1-C6-N6	12.73	126.24	118.60
1	AA	1363	DA	N1-C6-N6	12.72	126.23	118.60
1	AA	2669	DA	N1-C6-N6	12.72	126.23	118.60
1	AA	1573	DA	N1-C6-N6	12.72	126.23	118.60
19	AJ	16	DA	N1-C6-N6	12.72	126.23	118.60
52	Aw	17	DA	N1-C6-N6	12.72	126.23	118.60
155	Cs	20	DA	N1-C6-N6	12.72	126.23	118.60
1	AA	4344	DA	N1-C6-N6	12.72	126.23	118.60
155	Cs	6	DA	N1-C6-N6	12.72	126.23	118.60
1	AA	2801	DA	N1-C6-N6	12.71	126.23	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
46	Am	31	DG	P-O3'-C3'	12.71	134.95	119.70
30	AU	24	DA	N1-C6-N6	12.71	126.22	118.60
1	AA	3297	DA	N1-C6-N6	12.70	126.22	118.60
137	CT	32	DA	N1-C6-N6	12.70	126.22	118.60
26	AQ	36	DA	N1-C6-N6	12.70	126.22	118.60
33	AX	45	DA	N1-C6-N6	12.70	126.22	118.60
1	AA	3897	DG	O4'-C4'-C3'	-12.70	98.38	106.00
43	Aj	28	DA	N1-C6-N6	12.69	126.21	118.60
123	CF	12	DA	N1-C6-N6	12.69	126.21	118.60
76	BL	35	DA	N1-C6-N6	12.69	126.21	118.60
121	CD	20	DA	N1-C6-N6	12.69	126.21	118.60
1	AA	3027	DA	N1-C6-N6	12.68	126.21	118.60
1	AA	2775	DA	N1-C6-N6	12.68	126.21	118.60
1	AA	1606	DA	N1-C6-N6	12.68	126.21	118.60
1	AA	785	DA	N1-C6-N6	12.68	126.21	118.60
2	A0	52	DA	N1-C6-N6	12.68	126.21	118.60
152	Cp	47	DA	N1-C6-N6	12.68	126.21	118.60
1	AA	5332	DA	N1-C6-N6	12.68	126.20	118.60
1	AA	5099	DT	O4'-C4'-C3'	-12.67	98.40	106.00
1	AA	1329	DA	N1-C6-N6	12.67	126.20	118.60
8	A6	15	DA	N1-C6-N6	12.66	126.20	118.60
160	Cx	44	DA	P-O3'-C3'	12.66	134.89	119.70
144	Cb	16	DA	N1-C6-N6	12.66	126.19	118.60
75	BK	9	DA	N1-C6-N6	12.66	126.19	118.60
1	AA	118	DA	N1-C6-N6	12.65	126.19	118.60
1	AA	5484	DA	N1-C6-N6	12.65	126.19	118.60
1	AA	98	DA	N1-C6-N6	12.65	126.19	118.60
1	AA	280	DA	N1-C6-N6	12.65	126.19	118.60
122	CE	10	DA	N1-C6-N6	12.64	126.19	118.60
1	AA	5659	DA	N1-C6-N6	12.64	126.19	118.60
1	AA	701	DA	N1-C6-N6	12.64	126.19	118.60
160	Cx	38	DA	N1-C6-N6	12.64	126.19	118.60
52	Aw	13	DA	N1-C6-N6	12.64	126.18	118.60
15	AF	5	DA	N1-C6-N6	12.64	126.18	118.60
37	Ac	3	DA	N1-C6-N6	12.64	126.18	118.60
75	BK	30	DA	N1-C6-N6	12.63	126.18	118.60
81	BQ	9	DA	N1-C6-N6	12.63	126.18	118.60
1	AA	1566	DA	N1-C6-N6	12.63	126.18	118.60
20	AK	48	DA	N1-C6-N6	12.63	126.18	118.60
90	BZ	56	DA	N1-C6-N6	12.63	126.18	118.60
1	AA	5455	DA	N1-C6-N6	12.63	126.17	118.60
23	AN	4	DA	N1-C6-N6	12.62	126.17	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1162	DT	O4'-C4'-C3'	-12.62	98.43	106.00
45	Al	18	DA	N1-C6-N6	12.62	126.17	118.60
1	AA	5720	DA	N1-C6-N6	12.62	126.17	118.60
1	AA	5328	DA	N1-C6-N6	12.62	126.17	118.60
1	AA	5969	DA	N1-C6-N6	12.62	126.17	118.60
4	A2	42	DA	N1-C6-N6	12.62	126.17	118.60
5	A3	9	DA	N1-C6-N6	12.62	126.17	118.60
1	AA	2717	DA	N1-C6-N6	12.61	126.17	118.60
1	AA	4265	DA	N1-C6-N6	12.61	126.17	118.60
18	AI	29	DA	N1-C6-N6	12.61	126.17	118.60
128	CK	35	DA	N1-C6-N6	12.61	126.17	118.60
1	AA	3170	DA	N1-C6-N6	12.61	126.16	118.60
1	AA	1681	DA	N1-C6-N6	12.61	126.16	118.60
128	CK	12	DA	N1-C6-N6	12.61	126.16	118.60
1	AA	179	DG	P-O3'-C3'	12.60	134.82	119.70
1	AA	1894	DA	N1-C6-N6	12.60	126.16	118.60
1	AA	6629	DC	O4'-C4'-C3'	-12.60	98.44	106.00
1	AA	7002	DA	N1-C6-N6	12.60	126.16	118.60
1	AA	3091	DA	N1-C6-N6	12.59	126.16	118.60
1	AA	3493	DA	N1-C6-N6	12.59	126.16	118.60
1	AA	6381	DA	N1-C6-N6	12.59	126.16	118.60
71	BG	18	DA	N1-C6-N6	12.59	126.16	118.60
110	C0	9	DA	N1-C6-N6	12.59	126.15	118.60
1	AA	3540	DA	P-O3'-C3'	12.59	134.80	119.70
1	AA	1675	DA	N1-C6-N6	12.58	126.15	118.60
107	Bq	50	DA	N1-C6-N6	12.58	126.15	118.60
121	CD	32	DA	N1-C6-N6	12.58	126.15	118.60
43	Aj	24	DA	N1-C6-N6	12.58	126.15	118.60
149	Cg	40	DA	N1-C6-N6	12.58	126.15	118.60
7	A5	29	DA	N1-C6-N6	12.58	126.15	118.60
43	Aj	45	DA	N1-C6-N6	12.58	126.15	118.60
48	Ao	23	DA	N1-C6-N6	12.58	126.15	118.60
1	AA	5365	DA	N1-C6-N6	12.57	126.14	118.60
130	CM	31	DA	N1-C6-N6	12.57	126.14	118.60
1	AA	7073	DA	N1-C6-N6	12.57	126.14	118.60
1	AA	2721	DA	N1-C6-N6	12.56	126.14	118.60
1	AA	3014	DA	N1-C6-N6	12.56	126.14	118.60
1	AA	4266	DA	N1-C6-N6	12.56	126.14	118.60
1	AA	6059	DA	N1-C6-N6	12.56	126.14	118.60
13	AD	28	DC	O4'-C4'-C3'	-12.56	98.46	106.00
1	AA	3068	DA	N1-C6-N6	12.56	126.14	118.60
133	CP	52	DA	N1-C6-N6	12.56	126.14	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2509	DA	N1-C6-N6	12.56	126.13	118.60
1	AA	6016	DA	N1-C6-N6	12.56	126.13	118.60
1	AA	2724	DA	N1-C6-N6	12.56	126.13	118.60
45	Al	33	DA	N1-C6-N6	12.56	126.13	118.60
132	CO	28	DA	N1-C6-N6	12.55	126.13	118.60
150	Ch	37	DA	N1-C6-N6	12.55	126.13	118.60
1	AA	356	DG	P-O3'-C3'	12.54	134.75	119.70
76	BL	20	DA	N1-C6-N6	12.54	126.13	118.60
1	AA	590	DA	O4'-C4'-C3'	-12.54	98.47	106.00
1	AA	1016	DA	N1-C6-N6	12.54	126.13	118.60
29	AT	22	DA	N1-C6-N6	12.54	126.12	118.60
137	CT	6	DA	N1-C6-N6	12.54	126.12	118.60
132	CO	42	DA	N1-C6-N6	12.54	126.12	118.60
1	AA	969	DA	N1-C6-N6	12.54	126.12	118.60
1	AA	6688	DA	N1-C6-N6	12.53	126.12	118.60
118	C8	27	DA	N1-C6-N6	12.53	126.12	118.60
47	An	15	DA	N1-C6-N6	12.53	126.12	118.60
112	C2	48	DA	N1-C6-N6	12.53	126.12	118.60
1	AA	5971	DA	N1-C6-N6	12.53	126.12	118.60
31	AV	52	DA	N1-C6-N6	12.53	126.12	118.60
1	AA	1584	DA	N1-C6-N6	12.53	126.11	118.60
10	A8	43	DA	N1-C6-N6	12.53	126.12	118.60
58	B2	3	DA	N1-C6-N6	12.53	126.11	118.60
1	AA	5798	DA	N1-C6-N6	12.52	126.11	118.60
116	C6	23	DA	N1-C6-N6	12.52	126.11	118.60
1	AA	1586	DA	N1-C6-N6	12.52	126.11	118.60
112	C2	19	DA	N1-C6-N6	12.52	126.11	118.60
146	Cd	27	DA	N1-C6-N6	12.52	126.11	118.60
1	AA	498	DA	N1-C6-N6	12.52	126.11	118.60
12	AC	27	DA	N1-C6-N6	12.52	126.11	118.60
128	CK	8	DA	N1-C6-N6	12.52	126.11	118.60
112	C2	31	DA	N1-C6-N6	12.51	126.11	118.60
1	AA	5972	DA	N1-C6-N6	12.51	126.11	118.60
146	Cd	31	DA	N1-C6-N6	12.51	126.11	118.60
1	AA	5435	DA	N1-C6-N6	12.51	126.10	118.60
1	AA	3122	DA	N1-C6-N6	12.50	126.10	118.60
1	AA	5950	DA	N1-C6-N6	12.50	126.10	118.60
2	A0	33	DA	N1-C6-N6	12.50	126.10	118.60
20	AK	59	DA	N1-C6-N6	12.50	126.10	118.60
51	Av	22	DA	N1-C6-N6	12.50	126.10	118.60
1	AA	1811	DA	N1-C6-N6	12.49	126.10	118.60
1	AA	2623	DA	N1-C6-N6	12.49	126.10	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5014	DA	N1-C6-N6	12.49	126.10	118.60
1	AA	5330	DA	N1-C6-N6	12.49	126.10	118.60
1	AA	6069	DA	N1-C6-N6	12.49	126.10	118.60
1	AA	1868	DA	N1-C6-N6	12.49	126.09	118.60
41	Ah	33	DA	N1-C6-N6	12.49	126.09	118.60
143	CZ	5	DA	N1-C6-N6	12.49	126.10	118.60
1	AA	4357	DA	N1-C6-N6	12.49	126.09	118.60
1	AA	5454	DA	N1-C6-N6	12.49	126.09	118.60
45	Al	15	DA	N1-C6-N6	12.49	126.09	118.60
59	B3	43	DA	N1-C6-N6	12.49	126.09	118.60
137	CT	12	DA	N1-C6-N6	12.49	126.09	118.60
155	Cs	12	DA	N1-C6-N6	12.49	126.09	118.60
33	AX	44	DA	N1-C6-N6	12.49	126.09	118.60
49	As	26	DA	N1-C6-N6	12.49	126.09	118.60
114	C4	55	DA	N1-C6-N6	12.49	126.09	118.60
139	CV	13	DA	O4'-C4'-C3'	-12.49	98.51	106.00
19	AJ	40	DC	P-O3'-C3'	12.48	134.68	119.70
51	Av	20	DA	N1-C6-N6	12.48	126.09	118.60
156	Ct	26	DA	N1-C6-N6	12.48	126.09	118.60
1	AA	3931	DA	N1-C6-N6	12.48	126.09	118.60
1	AA	3050	DA	N1-C6-N6	12.48	126.09	118.60
2	A0	46	DA	N1-C6-N6	12.48	126.09	118.60
145	Cc	36	DA	N1-C6-N6	12.48	126.09	118.60
1	AA	3039	DA	N1-C6-N6	12.48	126.09	118.60
30	AU	25	DA	N1-C6-N6	12.48	126.09	118.60
1	AA	6050	DC	P-O3'-C3'	12.48	134.67	119.70
1	AA	3904	DC	O4'-C4'-C3'	-12.47	98.52	106.00
1	AA	4492	DA	N1-C6-N6	12.47	126.08	118.60
1	AA	5428	DA	N1-C6-N6	12.47	126.08	118.60
70	BF	36	DA	N1-C6-N6	12.47	126.08	118.60
72	BH	18	DA	N1-C6-N6	12.47	126.08	118.60
1	AA	1320	DA	N1-C6-N6	12.47	126.08	118.60
1	AA	2649	DA	N1-C6-N6	12.47	126.08	118.60
18	AI	15	DA	N1-C6-N6	12.47	126.08	118.60
20	AK	8	DA	N1-C6-N6	12.47	126.08	118.60
115	C5	34	DA	N1-C6-N6	12.47	126.08	118.60
116	C6	35	DA	N1-C6-N6	12.47	126.08	118.60
1	AA	1528	DA	N1-C6-N6	12.46	126.08	118.60
1	AA	2990	DA	N1-C6-N6	12.46	126.08	118.60
1	AA	3621	DA	N1-C6-N6	12.47	126.08	118.60
1	AA	5073	DA	N1-C6-N6	12.47	126.08	118.60
1	AA	88	DA	N1-C6-N6	12.46	126.08	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2397	DA	N1-C6-N6	12.46	126.08	118.60
1	AA	6001	DA	N1-C6-N6	12.46	126.08	118.60
1	AA	6350	DA	N1-C6-N6	12.46	126.08	118.60
119	CB	22	DA	N1-C6-N6	12.46	126.08	118.60
122	CE	18	DA	N1-C6-N6	12.46	126.08	118.60
145	Cc	27	DA	N1-C6-N6	12.46	126.08	118.60
1	AA	2701	DA	N1-C6-N6	12.46	126.08	118.60
1	AA	3054	DA	N1-C6-N6	12.46	126.07	118.60
33	AX	12	DA	N1-C6-N6	12.46	126.08	118.60
78	BN	8	DA	N1-C6-N6	12.46	126.08	118.60
152	Cp	44	DA	N1-C6-N6	12.46	126.07	118.60
162	Cz	48	DA	N1-C6-N6	12.46	126.07	118.60
5	A3	33	DA	N1-C6-N6	12.46	126.07	118.60
2	A0	34	DA	N1-C6-N6	12.45	126.07	118.60
121	CD	35	DA	N1-C6-N6	12.45	126.07	118.60
9	A7	32	DA	N1-C6-N6	12.45	126.07	118.60
1	AA	2123	DA	N1-C6-N6	12.45	126.07	118.60
1	AA	5770	DA	N1-C6-N6	12.44	126.07	118.60
43	Aj	33	DA	N1-C6-N6	12.45	126.07	118.60
129	CL	44	DA	N1-C6-N6	12.45	126.07	118.60
1	AA	186	DT	OP2-P-O3'	12.44	132.57	105.20
1	AA	1582	DA	N1-C6-N6	12.44	126.06	118.60
1	AA	5086	DA	N1-C6-N6	12.44	126.06	118.60
18	AI	35	DA	N1-C6-N6	12.44	126.07	118.60
129	CL	32	DA	N1-C6-N6	12.44	126.06	118.60
1	AA	3475	DA	N1-C6-N6	12.44	126.06	118.60
54	Ay	26	DA	N1-C6-N6	12.44	126.06	118.60
1	AA	914	DA	N1-C6-N6	12.44	126.06	118.60
1	AA	5320	DA	N1-C6-N6	12.44	126.06	118.60
128	CK	16	DA	N1-C6-N6	12.44	126.06	118.60
1	AA	1387	DA	N1-C6-N6	12.43	126.06	118.60
1	AA	5738	DA	N1-C6-N6	12.43	126.06	118.60
129	CL	15	DA	N1-C6-N6	12.43	126.06	118.60
31	AV	43	DA	N1-C6-N6	12.43	126.06	118.60
1	AA	2464	DA	N1-C6-N6	12.43	126.06	118.60
1	AA	3028	DA	N1-C6-N6	12.43	126.06	118.60
1	AA	3394	DA	N1-C6-N6	12.43	126.06	118.60
1	AA	3405	DA	N1-C6-N6	12.43	126.06	118.60
7	A5	36	DA	N1-C6-N6	12.43	126.06	118.60
1	AA	5021	DA	N1-C6-N6	12.43	126.06	118.60
1	AA	1364	DA	N1-C6-N6	12.42	126.05	118.60
1	AA	1943	DA	N1-C6-N6	12.42	126.05	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1382	DA	N1-C6-N6	12.42	126.05	118.60
1	AA	2907	DA	N1-C6-N6	12.42	126.05	118.60
1	AA	5407	DA	N1-C6-N6	12.42	126.05	118.60
1	AA	6414	DA	N1-C6-N6	12.42	126.05	118.60
118	C8	40	DA	N1-C6-N6	12.42	126.05	118.60
78	BN	37	DA	N1-C6-N6	12.42	126.05	118.60
1	AA	281	DA	N1-C6-N6	12.41	126.05	118.60
1	AA	4341	DA	N1-C6-N6	12.41	126.05	118.60
1	AA	6523	DA	N1-C6-N6	12.41	126.05	118.60
71	BG	2	DA	N1-C6-N6	12.41	126.05	118.60
126	CI	30	DA	N1-C6-N6	12.41	126.05	118.60
1	AA	4771	DA	N1-C6-N6	12.41	126.05	118.60
141	CX	35	DA	N1-C6-N6	12.41	126.05	118.60
1	AA	4933	DA	N1-C6-N6	12.41	126.05	118.60
1	AA	5889	DA	N1-C6-N6	12.41	126.04	118.60
159	Cw	8	DA	N1-C6-N6	12.41	126.04	118.60
1	AA	2534	DT	P-O3'-C3'	12.40	134.59	119.70
1	AA	4520	DA	N1-C6-N6	12.40	126.04	118.60
118	C8	33	DA	N1-C6-N6	12.40	126.04	118.60
1	AA	5434	DA	N1-C6-N6	12.40	126.04	118.60
4	A2	27	DA	N1-C6-N6	12.40	126.04	118.60
30	AU	18	DA	O4'-C4'-C3'	-12.40	98.56	106.00
157	Cu	36	DA	N1-C6-N6	12.40	126.04	118.60
1	AA	6068	DA	N1-C6-N6	12.40	126.04	118.60
1	AA	6114	DA	N1-C6-N6	12.40	126.04	118.60
117	C7	46	DA	N1-C6-N6	12.40	126.04	118.60
1	AA	4158	DA	N1-C6-N6	12.39	126.04	118.60
2	A0	14	DA	N1-C6-N6	12.39	126.04	118.60
26	AQ	41	DA	N1-C6-N6	12.39	126.04	118.60
1	AA	2289	DA	N1-C6-N6	12.39	126.03	118.60
1	AA	1432	DA	N1-C6-N6	12.39	126.03	118.60
10	A8	3	DA	N1-C6-N6	12.39	126.03	118.60
1	AA	866	DA	N1-C6-N6	12.38	126.03	118.60
1	AA	6029	DA	N1-C6-N6	12.38	126.03	118.60
18	AI	39	DA	N1-C6-N6	12.38	126.03	118.60
1	AA	3011	DA	N1-C6-N6	12.38	126.03	118.60
1	AA	5068	DA	N1-C6-N6	12.38	126.03	118.60
1	AA	3598	DA	N1-C6-N6	12.38	126.03	118.60
33	AX	35	DA	N1-C6-N6	12.38	126.03	118.60
1	AA	4906	DA	N1-C6-N6	12.38	126.03	118.60
90	BZ	58	DA	N1-C6-N6	12.38	126.03	118.60
1	AA	2494	DA	N1-C6-N6	12.38	126.03	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2240	DA	N1-C6-N6	12.37	126.02	118.60
61	B5	29	DA	N1-C6-N6	12.37	126.02	118.60
1	AA	164	DG	P-O3'-C3'	12.37	134.54	119.70
1	AA	1591	DA	N1-C6-N6	12.37	126.02	118.60
157	Cu	52	DA	N1-C6-N6	12.37	126.02	118.60
4	A2	13	DA	N1-C6-N6	12.37	126.02	118.60
52	Aw	12	DA	N1-C6-N6	12.37	126.02	118.60
141	CX	41	DA	N1-C6-N6	12.36	126.02	118.60
147	Ce	11	DA	N1-C6-N6	12.36	126.02	118.60
31	AV	32	DA	N1-C6-N6	12.36	126.02	118.60
106	Bp	31	DA	O4'-C1'-N9	12.36	116.65	108.00
133	CP	53	DA	N1-C6-N6	12.36	126.02	118.60
1	AA	2506	DA	N1-C6-N6	12.36	126.01	118.60
1	AA	3922	DA	N1-C6-N6	12.36	126.01	118.60
1	AA	5752	DA	N1-C6-N6	12.36	126.01	118.60
1	AA	6045	DA	N1-C6-N6	12.36	126.01	118.60
1	AA	6575	DA	N1-C6-N6	12.36	126.01	118.60
1	AA	2650	DA	N1-C6-N6	12.35	126.01	118.60
1	AA	4676	DA	N1-C6-N6	12.35	126.01	118.60
5	A3	27	DA	N1-C6-N6	12.35	126.01	118.60
1	AA	1443	DA	N1-C6-N6	12.35	126.01	118.60
123	CF	38	DA	N1-C6-N6	12.35	126.01	118.60
27	AR	6	DA	N1-C6-N6	12.35	126.01	118.60
44	Ak	27	DA	N1-C6-N6	12.35	126.01	118.60
75	BK	27	DA	N1-C6-N6	12.35	126.01	118.60
1	AA	1384	DA	N1-C6-N6	12.34	126.01	118.60
79	BO	1	DA	N1-C6-N6	12.34	126.00	118.60
1	AA	2271	DA	N1-C6-N6	12.34	126.00	118.60
1	AA	5228	DA	N1-C6-N6	12.34	126.00	118.60
1	AA	6989	DA	N1-C6-N6	12.34	126.00	118.60
7	A5	26	DA	N1-C6-N6	12.34	126.00	118.60
66	BB	6	DA	N1-C6-N6	12.34	126.00	118.60
1	AA	1517	DA	N1-C6-N6	12.34	126.00	118.60
1	AA	2657	DA	N1-C6-N6	12.34	126.00	118.60
1	AA	5430	DA	N1-C6-N6	12.33	126.00	118.60
1	AA	6265	DA	N1-C6-N6	12.33	126.00	118.60
1	AA	6325	DA	N1-C6-N6	12.33	126.00	118.60
99	Bi	37	DA	N1-C6-N6	12.33	126.00	118.60
1	AA	5694	DA	N1-C6-N6	12.33	126.00	118.60
1	AA	842	DA	N1-C6-N6	12.32	126.00	118.60
1	AA	307	DA	N1-C6-N6	12.32	125.99	118.60
1	AA	3082	DA	N1-C6-N6	12.32	126.00	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6054	DA	N1-C6-N6	12.32	126.00	118.60
63	B7	43	DA	N1-C6-N6	12.32	125.99	118.60
143	CZ	10	DG	O4'-C4'-C3'	-12.32	98.61	106.00
1	AA	3015	DA	N1-C6-N6	12.32	125.99	118.60
49	As	14	DA	N1-C6-N6	12.32	125.99	118.60
1	AA	5018	DA	N1-C6-N6	12.32	125.99	118.60
113	C3	27	DA	N1-C6-N6	12.32	125.99	118.60
1	AA	2037	DA	N1-C6-N6	12.32	125.99	118.60
1	AA	5885	DA	N1-C6-N6	12.32	125.99	118.60
1	AA	6677	DA	N1-C6-N6	12.32	125.99	118.60
69	BE	68	DA	N1-C6-N6	12.32	125.99	118.60
1	AA	3041	DA	N1-C6-N6	12.31	125.99	118.60
1	AA	547	DA	N1-C6-N6	12.31	125.99	118.60
1	AA	6427	DA	N1-C6-N6	12.31	125.99	118.60
123	CF	28	DA	N1-C6-N6	12.31	125.99	118.60
144	Cb	24	DA	N1-C6-N6	12.31	125.99	118.60
38	Ad	9	DA	N1-C6-N6	12.31	125.98	118.60
83	BS	33	DA	N1-C6-N6	12.31	125.98	118.60
1	AA	1866	DA	N1-C6-N6	12.31	125.98	118.60
1	AA	7243	DA	N1-C6-N6	12.31	125.98	118.60
44	Ak	32	DA	N1-C6-N6	12.30	125.98	118.60
45	Al	40	DA	N1-C6-N6	12.31	125.98	118.60
1	AA	1098	DA	N1-C6-N6	12.30	125.98	118.60
1	AA	4303	DA	N1-C6-N6	12.30	125.98	118.60
82	BR	17	DA	N1-C6-N6	12.30	125.98	118.60
1	AA	3045	DA	N1-C6-N6	12.30	125.98	118.60
1	AA	931	DA	N1-C6-N6	12.29	125.98	118.60
1	AA	5968	DA	N1-C6-N6	12.30	125.98	118.60
7	A5	3	DA	N1-C6-N6	12.30	125.98	118.60
18	AI	24	DA	N1-C6-N6	12.29	125.98	118.60
57	B1	49	DA	N1-C6-N6	12.29	125.98	118.60
135	CR	19	DA	N1-C6-N6	12.29	125.98	118.60
137	CT	17	DA	N1-C6-N6	12.29	125.98	118.60
1	AA	1779	DA	N1-C6-N6	12.29	125.98	118.60
1	AA	2572	DA	N1-C6-N6	12.29	125.97	118.60
20	AK	22	DA	N1-C6-N6	12.29	125.97	118.60
28	AS	37	DA	N1-C6-N6	12.29	125.97	118.60
32	AW	48	DA	N1-C6-N6	12.29	125.97	118.60
77	BM	41	DA	N1-C6-N6	12.29	125.97	118.60
26	AQ	17	DG	P-O3'-C3'	12.29	134.45	119.70
106	Bp	25	DA	N1-C6-N6	12.29	125.97	118.60
1	AA	3409	DA	N1-C6-N6	12.29	125.97	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A1	43	DA	N1-C6-N6	12.29	125.97	118.60
21	AL	5	DA	N1-C6-N6	12.29	125.97	118.60
137	CT	20	DA	N1-C6-N6	12.28	125.97	118.60
4	A2	43	DA	N1-C6-N6	12.28	125.97	118.60
1	AA	4235	DA	N1-C6-N6	12.28	125.97	118.60
9	A7	42	DA	N1-C6-N6	12.28	125.97	118.60
31	AV	51	DA	N1-C6-N6	12.28	125.97	118.60
1	AA	848	DA	N1-C6-N6	12.28	125.97	118.60
1	AA	6035	DA	N1-C6-N6	12.28	125.97	118.60
105	Bo	35	DA	N1-C6-N6	12.28	125.97	118.60
122	CE	11	DA	N1-C6-N6	12.28	125.97	118.60
109	Bs	17	DA	N1-C6-N6	12.28	125.97	118.60
149	Cg	3	DA	N1-C6-N6	12.28	125.97	118.60
1	AA	2047	DA	N1-C6-N6	12.27	125.96	118.60
116	C6	5	DA	N1-C6-N6	12.27	125.97	118.60
1	AA	3295	DA	N1-C6-N6	12.27	125.96	118.60
30	AU	19	DA	N1-C6-N6	12.27	125.96	118.60
123	CF	3	DA	N1-C6-N6	12.27	125.97	118.60
102	Bl	36	DA	N1-C6-N6	12.27	125.96	118.60
132	CO	17	DA	N1-C6-N6	12.27	125.96	118.60
157	Cu	39	DA	N1-C6-N6	12.27	125.96	118.60
1	AA	1231	DA	N1-C6-N6	12.27	125.96	118.60
1	AA	2371	DA	N1-C6-N6	12.27	125.96	118.60
1	AA	6431	DA	N1-C6-N6	12.27	125.96	118.60
64	B8	3	DA	N1-C6-N6	12.27	125.96	118.60
151	Ck	5	DA	N1-C6-N6	12.27	125.96	118.60
1	AA	5214	DA	N1-C6-N6	12.27	125.96	118.60
44	Ak	11	DA	N1-C6-N6	12.27	125.96	118.60
44	Ak	29	DA	N1-C6-N6	12.27	125.96	118.60
69	BE	3	DA	N1-C6-N6	12.27	125.96	118.60
1	AA	3930	DA	N1-C6-N6	12.26	125.96	118.60
46	Am	35	DA	N1-C6-N6	12.26	125.96	118.60
60	B4	36	DA	N1-C6-N6	12.26	125.96	118.60
113	C3	29	DA	N1-C6-N6	12.26	125.96	118.60
1	AA	3098	DA	N1-C6-N6	12.26	125.96	118.60
1	AA	4053	DA	N1-C6-N6	12.26	125.95	118.60
40	Ag	9	DA	N1-C6-N6	12.26	125.95	118.60
1	AA	6425	DA	N1-C6-N6	12.26	125.95	118.60
1	AA	6513	DA	N1-C6-N6	12.26	125.95	118.60
92	Bb	38	DA	N1-C6-N6	12.26	125.95	118.60
100	Bj	7	DA	N1-C6-N6	12.26	125.95	118.60
142	CY	41	DA	N1-C6-N6	12.26	125.95	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	A3	12	DA	N1-C6-N6	12.25	125.95	118.60
20	AK	56	DA	N1-C6-N6	12.25	125.95	118.60
155	Cs	39	DA	N1-C6-N6	12.25	125.95	118.60
1	AA	1346	DT	OP2-P-O3'	12.25	132.15	105.20
1	AA	3227	DA	N1-C6-N6	12.25	125.95	118.60
1	AA	4644	DA	N1-C6-N6	12.25	125.95	118.60
84	BT	24	DA	N1-C6-N6	12.25	125.95	118.60
161	Cy	33	DA	N1-C6-N6	12.25	125.95	118.60
1	AA	283	DC	O4'-C4'-C3'	-12.25	98.65	106.00
1	AA	687	DA	N1-C6-N6	12.25	125.95	118.60
23	AN	28	DA	N1-C6-N6	12.25	125.95	118.60
60	B4	44	DA	N1-C6-N6	12.25	125.95	118.60
86	BV	30	DA	N1-C6-N6	12.25	125.95	118.60
129	CL	22	DA	N1-C6-N6	12.25	125.95	118.60
27	AR	48	DA	N1-C6-N6	12.24	125.95	118.60
99	Bi	56	DA	N1-C6-N6	12.24	125.95	118.60
1	AA	4427	DA	N1-C6-N6	12.24	125.95	118.60
1	AA	4819	DA	N1-C6-N6	12.24	125.94	118.60
43	Aj	55	DA	N1-C6-N6	12.24	125.95	118.60
48	Ao	27	DA	N1-C6-N6	12.24	125.94	118.60
1	AA	1101	DA	O4'-C4'-C3'	-12.24	98.66	106.00
119	CB	38	DA	N1-C6-N6	12.24	125.94	118.60
134	CQ	31	DA	N1-C6-N6	12.24	125.94	118.60
161	Cy	19	DA	N1-C6-N6	12.24	125.94	118.60
137	CT	21	DA	N1-C6-N6	12.24	125.94	118.60
1	AA	7075	DC	O4'-C4'-C3'	-12.24	98.66	106.00
1	AA	151	DA	N1-C6-N6	12.24	125.94	118.60
1	AA	4809	DA	N1-C6-N6	12.24	125.94	118.60
1	AA	4354	DA	N1-C6-N6	12.23	125.94	118.60
1	AA	4794	DG	P-O3'-C3'	12.23	134.38	119.70
1	AA	5846	DA	N1-C6-N6	12.23	125.94	118.60
122	CE	4	DA	N1-C6-N6	12.23	125.94	118.60
1	AA	1449	DA	N1-C6-N6	12.23	125.94	118.60
1	AA	812	DA	N1-C6-N6	12.23	125.94	118.60
1	AA	5745	DA	N1-C6-N6	12.23	125.94	118.60
49	As	28	DA	N1-C6-N6	12.23	125.94	118.60
72	BH	3	DA	N1-C6-N6	12.23	125.94	118.60
1	AA	1854	DA	O4'-C4'-C3'	-12.22	98.67	106.00
52	Aw	16	DA	N1-C6-N6	12.22	125.94	118.60
1	AA	503	DA	N1-C6-N6	12.22	125.93	118.60
1	AA	5515	DA	N1-C6-N6	12.22	125.93	118.60
16	AG	9	DA	N1-C6-N6	12.22	125.93	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
79	BO	24	DA	N1-C6-N6	12.22	125.93	118.60
1	AA	5063	DA	N1-C6-N6	12.22	125.93	118.60
1	AA	6034	DT	P-O3'-C3'	12.22	134.37	119.70
66	BB	7	DA	N1-C6-N6	12.22	125.93	118.60
111	C1	11	DA	N1-C6-N6	12.22	125.93	118.60
127	CJ	4	DA	N1-C6-N6	12.22	125.93	118.60
1	AA	3625	DA	N1-C6-N6	12.22	125.93	118.60
1	AA	315	DA	N1-C6-N6	12.22	125.93	118.60
10	A8	10	DA	N1-C6-N6	12.22	125.93	118.60
39	Af	29	DA	N1-C6-N6	12.21	125.93	118.60
114	C4	18	DA	N1-C6-N6	12.21	125.93	118.60
1	AA	2759	DA	N1-C6-N6	12.21	125.93	118.60
130	CM	49	DA	N1-C6-N6	12.21	125.93	118.60
24	AO	5	DA	N1-C6-N6	12.21	125.93	118.60
31	AV	17	DA	N1-C6-N6	12.21	125.93	118.60
36	Ab	36	DA	N1-C6-N6	12.21	125.93	118.60
119	CB	7	DA	O4'-C4'-C3'	-12.21	98.67	106.00
35	AZ	13	DA	N1-C6-N6	12.21	125.93	118.60
158	Cv	40	DA	N1-C6-N6	12.21	125.92	118.60
1	AA	3012	DA	N1-C6-N6	12.21	125.92	118.60
18	AI	33	DA	N1-C6-N6	12.21	125.92	118.60
1	AA	4992	DA	N1-C6-N6	12.21	125.92	118.60
1	AA	5045	DA	N1-C6-N6	12.20	125.92	118.60
36	Ab	18	DA	N1-C6-N6	12.21	125.92	118.60
117	C7	15	DA	N1-C6-N6	12.21	125.92	118.60
1	AA	3	DA	N1-C6-N6	12.20	125.92	118.60
1	AA	2627	DA	N1-C6-N6	12.20	125.92	118.60
128	CK	22	DA	N1-C6-N6	12.20	125.92	118.60
1	AA	5838	DA	N1-C6-N6	12.20	125.92	118.60
2	A0	21	DA	N1-C6-N6	12.20	125.92	118.60
1	AA	1181	DA	N1-C6-N6	12.20	125.92	118.60
1	AA	5387	DA	N1-C6-N6	12.20	125.92	118.60
28	AS	27	DA	N1-C6-N6	12.20	125.92	118.60
1	AA	6022	DA	N1-C6-N6	12.20	125.92	118.60
113	C3	30	DA	N1-C6-N6	12.20	125.92	118.60
1	AA	114	DA	N1-C6-N6	12.19	125.92	118.60
45	Al	20	DA	N1-C6-N6	12.19	125.92	118.60
36	Ab	38	DA	N1-C6-N6	12.19	125.91	118.60
1	AA	3504	DA	N1-C6-N6	12.19	125.91	118.60
1	AA	3649	DA	N1-C6-N6	12.19	125.91	118.60
44	Ak	12	DA	N1-C6-N6	12.19	125.91	118.60
55	Az	15	DA	N1-C6-N6	12.19	125.91	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1778	DA	N1-C6-N6	12.19	125.91	118.60
1	AA	6014	DA	N1-C6-N6	12.19	125.91	118.60
128	CK	3	DA	N1-C6-N6	12.19	125.91	118.60
147	Ce	4	DA	N1-C6-N6	12.19	125.91	118.60
60	B4	6	DA	N1-C6-N6	12.18	125.91	118.60
1	AA	4844	DA	N1-C6-N6	12.18	125.91	118.60
1	AA	6439	DA	N1-C6-N6	12.18	125.91	118.60
32	AW	24	DA	N1-C6-N6	12.18	125.91	118.60
1	AA	1352	DA	N1-C6-N6	12.18	125.91	118.60
1	AA	2021	DA	N1-C6-N6	12.18	125.91	118.60
1	AA	2839	DA	N1-C6-N6	12.18	125.91	118.60
1	AA	2496	DA	N1-C6-N6	12.18	125.91	118.60
1	AA	6664	DA	N1-C6-N6	12.18	125.91	118.60
1	AA	3037	DA	N1-C6-N6	12.18	125.91	118.60
1	AA	1854	DA	N1-C6-N6	12.17	125.90	118.60
1	AA	2017	DA	N1-C6-N6	12.17	125.90	118.60
1	AA	6246	DA	P-O3'-C3'	12.17	134.31	119.70
1	AA	3016	DA	N1-C6-N6	12.17	125.90	118.60
1	AA	6819	DA	N1-C6-N6	12.17	125.90	118.60
20	AK	1	DA	N1-C6-N6	12.17	125.90	118.60
70	BF	7	DA	N1-C6-N6	12.17	125.91	118.60
1	AA	5060	DA	N1-C6-N6	12.17	125.90	118.60
142	CY	19	DA	N1-C6-N6	12.17	125.90	118.60
1	AA	282	DA	N1-C6-N6	12.17	125.90	118.60
99	Bi	25	DA	N1-C6-N6	12.17	125.90	118.60
8	A6	41	DA	N1-C6-N6	12.17	125.90	118.60
60	B4	11	DG	P-O3'-C3'	12.16	134.30	119.70
68	BD	33	DA	N1-C6-N6	12.16	125.90	118.60
1	AA	825	DA	N1-C6-N6	12.16	125.90	118.60
159	Cw	27	DA	N1-C6-N6	12.16	125.90	118.60
77	BM	35	DA	N1-C6-N6	12.16	125.90	118.60
148	Cf	22	DA	N1-C6-N6	12.16	125.90	118.60
1	AA	4356	DA	N1-C6-N6	12.16	125.89	118.60
3	A1	26	DA	N1-C6-N6	12.16	125.89	118.60
20	AK	53	DA	N1-C6-N6	12.16	125.90	118.60
1	AA	1732	DA	N1-C6-N6	12.16	125.89	118.60
92	Bb	59	DA	N1-C6-N6	12.16	125.89	118.60
142	CY	34	DA	N1-C6-N6	12.16	125.89	118.60
1	AA	2662	DA	N1-C6-N6	12.15	125.89	118.60
1	AA	5162	DA	N1-C6-N6	12.15	125.89	118.60
1	AA	5751	DA	N1-C6-N6	12.15	125.89	118.60
50	Au	9	DA	N1-C6-N6	12.15	125.89	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
88	BX	46	DA	N1-C6-N6	12.15	125.89	118.60
111	C1	15	DA	N1-C6-N6	12.15	125.89	118.60
109	Bs	16	DA	N1-C6-N6	12.15	125.89	118.60
1	AA	1670	DA	N1-C6-N6	12.15	125.89	118.60
1	AA	4041	DA	N1-C6-N6	12.15	125.89	118.60
1	AA	4174	DA	N1-C6-N6	12.15	125.89	118.60
1	AA	5143	DA	N1-C6-N6	12.15	125.89	118.60
1	AA	2620	DA	N1-C6-N6	12.15	125.89	118.60
1	AA	3408	DA	N1-C6-N6	12.15	125.89	118.60
10	A8	22	DA	N1-C6-N6	12.15	125.89	118.60
38	Ad	7	DA	N1-C6-N6	12.15	125.89	118.60
1	AA	955	DG	O4'-C4'-C3'	-12.14	98.71	106.00
1	AA	6360	DA	N1-C6-N6	12.14	125.89	118.60
1	AA	145	DA	N1-C6-N6	12.14	125.89	118.60
1	AA	5019	DA	N1-C6-N6	12.14	125.89	118.60
5	A3	6	DA	N1-C6-N6	12.14	125.89	118.60
121	CD	44	DA	N1-C6-N6	12.14	125.89	118.60
141	CX	19	DA	N1-C6-N6	12.14	125.89	118.60
31	AV	14	DA	N1-C6-N6	12.14	125.88	118.60
36	Ab	30	DA	N1-C6-N6	12.14	125.88	118.60
10	A8	25	DA	N1-C6-N6	12.14	125.88	118.60
102	Bl	2	DA	N1-C6-N6	12.14	125.88	118.60
1	AA	2944	DA	N1-C6-N6	12.14	125.88	118.60
1	AA	5301	DA	N1-C6-N6	12.14	125.88	118.60
77	BM	44	DA	N1-C6-N6	12.14	125.88	118.60
161	Cy	59	DA	N1-C6-N6	12.14	125.88	118.60
8	A6	50	DA	N1-C6-N6	12.13	125.88	118.60
45	Al	38	DA	N1-C6-N6	12.13	125.88	118.60
161	Cy	21	DA	N1-C6-N6	12.13	125.88	118.60
27	AR	14	DA	N1-C6-N6	12.13	125.88	118.60
119	CB	43	DA	N1-C6-N6	12.13	125.88	118.60
154	Cr	26	DA	N1-C6-N6	12.13	125.88	118.60
1	AA	2083	DA	N1-C6-N6	12.13	125.88	118.60
1	AA	4366	DA	N1-C6-N6	12.13	125.88	118.60
1	AA	5415	DA	N1-C6-N6	12.13	125.88	118.60
1	AA	5521	DC	O4'-C4'-C3'	-12.13	98.72	106.00
2	A0	26	DA	N1-C6-N6	12.13	125.88	118.60
25	AP	15	DA	N1-C6-N6	12.13	125.88	118.60
82	BR	34	DA	N1-C6-N6	12.13	125.88	118.60
1	AA	2358	DA	N1-C6-N6	12.12	125.88	118.60
90	BZ	5	DA	N1-C6-N6	12.13	125.88	118.60
122	CE	3	DA	N1-C6-N6	12.13	125.88	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
136	CS	4	DA	N1-C6-N6	12.12	125.88	118.60
143	CZ	8	DA	N1-C6-N6	12.12	125.88	118.60
1	AA	1633	DA	N1-C6-N6	12.12	125.87	118.60
1	AA	5131	DA	N1-C6-N6	12.12	125.87	118.60
1	AA	5281	DA	N1-C6-N6	12.12	125.87	118.60
1	AA	7210	DA	N1-C6-N6	12.12	125.87	118.60
40	Ag	34	DA	N1-C6-N6	12.12	125.87	118.60
100	Bj	26	DA	N1-C6-N6	12.12	125.87	118.60
1	AA	1347	DA	N1-C6-N6	12.12	125.87	118.60
116	C6	26	DA	N1-C6-N6	12.12	125.87	118.60
1	AA	1607	DA	N1-C6-N6	12.12	125.87	118.60
1	AA	1643	DA	N1-C6-N6	12.12	125.87	118.60
65	B9	24	DA	N1-C6-N6	12.12	125.87	118.60
1	AA	2670	DA	N1-C6-N6	12.12	125.87	118.60
1	AA	4270	DA	N1-C6-N6	12.12	125.87	118.60
21	AL	21	DA	N1-C6-N6	12.12	125.87	118.60
91	Ba	19	DA	N1-C6-N6	12.12	125.87	118.60
137	CT	27	DA	N1-C6-N6	12.12	125.87	118.60
161	Cy	65	DA	N1-C6-N6	12.12	125.87	118.60
1	AA	1022	DA	N1-C6-N6	12.12	125.87	118.60
1	AA	1781	DA	N1-C6-N6	12.12	125.87	118.60
1	AA	4151	DA	N1-C6-N6	12.12	125.87	118.60
114	C4	9	DA	N1-C6-N6	12.12	125.87	118.60
1	AA	5343	DA	N1-C6-N6	12.11	125.87	118.60
1	AA	6920	DC	O4'-C4'-C3'	-12.11	98.73	106.00
161	Cy	27	DA	N1-C6-N6	12.11	125.87	118.60
1	AA	2248	DA	N1-C6-N6	12.11	125.87	118.60
1	AA	2682	DA	N1-C6-N6	12.11	125.87	118.60
1	AA	2816	DA	N1-C6-N6	12.11	125.87	118.60
30	AU	7	DA	N1-C6-N6	12.11	125.87	118.60
52	Aw	6	DA	N1-C6-N6	12.11	125.87	118.60
67	BC	6	DA	N1-C6-N6	12.11	125.87	118.60
157	Cu	8	DA	N1-C6-N6	12.11	125.87	118.60
1	AA	1314	DA	N1-C6-N6	12.11	125.86	118.60
1	AA	1576	DA	N1-C6-N6	12.11	125.87	118.60
1	AA	1459	DG	O4'-C4'-C3'	-12.11	98.73	106.00
1	AA	4813	DA	N1-C6-N6	12.11	125.86	118.60
158	Cv	14	DG	O4'-C4'-C3'	-12.11	98.73	106.00
1	AA	1212	DA	N1-C6-N6	12.11	125.86	118.60
1	AA	5690	DA	N1-C6-N6	12.11	125.86	118.60
1	AA	148	DA	N1-C6-N6	12.10	125.86	118.60
34	AY	9	DA	N1-C6-N6	12.10	125.86	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	Ag	1	DA	N1-C6-N6	12.10	125.86	118.60
1	AA	4045	DA	N1-C6-N6	12.10	125.86	118.60
76	BL	48	DA	N1-C6-N6	12.10	125.86	118.60
122	CE	25	DA	N1-C6-N6	12.10	125.86	118.60
1	AA	348	DA	N1-C6-N6	12.10	125.86	118.60
1	AA	1333	DA	N1-C6-N6	12.10	125.86	118.60
1	AA	2473	DA	N1-C6-N6	12.10	125.86	118.60
1	AA	3221	DA	N1-C6-N6	12.10	125.86	118.60
1	AA	5202	DA	N1-C6-N6	12.10	125.86	118.60
1	AA	6160	DA	N1-C6-N6	12.10	125.86	118.60
31	AV	22	DA	N1-C6-N6	12.10	125.86	118.60
44	Ak	40	DA	N1-C6-N6	12.10	125.86	118.60
63	B7	40	DA	N1-C6-N6	12.10	125.86	118.60
154	Cr	14	DA	N1-C6-N6	12.10	125.86	118.60
1	AA	4396	DA	N1-C6-N6	12.10	125.86	118.60
1	AA	7144	DA	N1-C6-N6	12.10	125.86	118.60
37	Ac	8	DA	N1-C6-N6	12.10	125.86	118.60
1	AA	4511	DA	N1-C6-N6	12.09	125.86	118.60
1	AA	3262	DA	N1-C6-N6	12.09	125.86	118.60
1	AA	5263	DA	N1-C6-N6	12.09	125.86	118.60
7	A5	25	DA	N1-C6-N6	12.09	125.86	118.60
38	Ad	32	DA	N1-C6-N6	12.09	125.86	118.60
1	AA	3040	DA	N1-C6-N6	12.09	125.85	118.60
1	AA	4353	DA	N1-C6-N6	12.09	125.86	118.60
1	AA	5293	DA	N1-C6-N6	12.09	125.85	118.60
1	AA	833	DA	N1-C6-N6	12.09	125.85	118.60
110	C0	39	DA	N1-C6-N6	12.09	125.85	118.60
1	AA	1703	DA	N1-C6-N6	12.09	125.85	118.60
1	AA	5347	DA	N1-C6-N6	12.09	125.85	118.60
1	AA	6820	DA	N1-C6-N6	12.09	125.85	118.60
49	As	29	DA	N1-C6-N6	12.09	125.85	118.60
31	AV	34	DA	N1-C6-N6	12.08	125.85	118.60
1	AA	1499	DA	N1-C6-N6	12.08	125.85	118.60
5	A3	4	DA	N1-C6-N6	12.08	125.85	118.60
25	AP	20	DA	N1-C6-N6	12.08	125.85	118.60
1	AA	2848	DA	N1-C6-N6	12.08	125.85	118.60
28	AS	44	DA	N1-C6-N6	12.08	125.85	118.60
70	BF	30	DA	N1-C6-N6	12.08	125.85	118.60
105	Bo	44	DA	N1-C6-N6	12.08	125.85	118.60
135	CR	45	DA	N1-C6-N6	12.08	125.85	118.60
148	Cf	29	DA	N1-C6-N6	12.08	125.85	118.60
41	Ah	39	DA	N1-C6-N6	12.08	125.85	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
57	B1	9	DA	N1-C6-N6	12.08	125.85	118.60
67	BC	1	DA	N1-C6-N6	12.08	125.85	118.60
121	CD	27	DA	N1-C6-N6	12.08	125.85	118.60
1	AA	2000	DA	N1-C6-N6	12.07	125.84	118.60
1	AA	2946	DA	N1-C6-N6	12.07	125.84	118.60
1	AA	3307	DA	N1-C6-N6	12.07	125.84	118.60
1	AA	3471	DA	N1-C6-N6	12.07	125.84	118.60
1	AA	4233	DA	N1-C6-N6	12.07	125.84	118.60
20	AK	34	DA	N1-C6-N6	12.07	125.84	118.60
93	Bc	22	DA	N1-C6-N6	12.07	125.84	118.60
97	Bg	14	DA	N1-C6-N6	12.07	125.84	118.60
125	CH	42	DC	O4'-C4'-C3'	-12.07	98.76	106.00
142	CY	29	DA	N1-C6-N6	12.07	125.84	118.60
1	AA	3541	DA	N1-C6-N6	12.07	125.84	118.60
1	AA	216	DA	N1-C6-N6	12.07	125.84	118.60
1	AA	3676	DA	N1-C6-N6	12.07	125.84	118.60
33	AX	23	DA	N1-C6-N6	12.07	125.84	118.60
75	BK	2	DA	N1-C6-N6	12.07	125.84	118.60
153	Cq	30	DA	N1-C6-N6	12.07	125.84	118.60
1	AA	6048	DG	P-O3'-C3'	12.06	134.18	119.70
139	CV	28	DA	N1-C6-N6	12.06	125.84	118.60
1	AA	625	DA	N1-C6-N6	12.06	125.84	118.60
1	AA	4399	DA	N1-C6-N6	12.06	125.84	118.60
4	A2	14	DA	N1-C6-N6	12.06	125.84	118.60
19	AJ	32	DA	N1-C6-N6	12.06	125.84	118.60
108	Br	39	DA	N1-C6-N6	12.06	125.84	118.60
1	AA	2718	DA	N1-C6-N6	12.06	125.83	118.60
1	AA	2034	DA	N1-C6-N6	12.06	125.83	118.60
1	AA	3090	DA	N1-C6-N6	12.06	125.83	118.60
13	AD	20	DA	N1-C6-N6	12.06	125.83	118.60
76	BL	42	DA	N1-C6-N6	12.06	125.83	118.60
142	CY	43	DA	N1-C6-N6	12.06	125.83	118.60
1	AA	1859	DA	N1-C6-N6	12.05	125.83	118.60
128	CK	17	DA	N1-C6-N6	12.06	125.83	118.60
1	AA	2586	DA	N1-C6-N6	12.05	125.83	118.60
1	AA	4954	DA	N1-C6-N6	12.05	125.83	118.60
10	A8	35	DA	N1-C6-N6	12.05	125.83	118.60
99	Bi	55	DA	N1-C6-N6	12.05	125.83	118.60
1	AA	4881	DA	N1-C6-N6	12.05	125.83	118.60
7	A5	15	DA	N1-C6-N6	12.05	125.83	118.60
7	A5	5	DA	N1-C6-N6	12.05	125.83	118.60
18	AI	16	DA	N1-C6-N6	12.05	125.83	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	AU	17	DA	N1-C6-N6	12.05	125.83	118.60
103	Bm	1	DA	N1-C6-N6	12.05	125.83	118.60
116	C6	11	DA	N1-C6-N6	12.05	125.83	118.60
131	CN	5	DA	N1-C6-N6	12.05	125.83	118.60
1	AA	3160	DA	N1-C6-N6	12.04	125.83	118.60
1	AA	5718	DA	N1-C6-N6	12.04	125.83	118.60
17	AH	16	DA	N1-C6-N6	12.05	125.83	118.60
98	Bh	33	DA	N1-C6-N6	12.05	125.83	118.60
126	CI	2	DA	N1-C6-N6	12.04	125.83	118.60
151	Ck	7	DA	N1-C6-N6	12.04	125.83	118.60
1	AA	1855	DA	N1-C6-N6	12.04	125.83	118.60
1	AA	4243	DA	N1-C6-N6	12.04	125.83	118.60
1	AA	3344	DA	N1-C6-N6	12.04	125.83	118.60
1	AA	4144	DA	N1-C6-N6	12.04	125.83	118.60
5	A3	7	DA	N1-C6-N6	12.04	125.83	118.60
57	B1	59	DA	N1-C6-N6	12.04	125.83	118.60
96	Bf	48	DA	N1-C6-N6	12.04	125.83	118.60
1	AA	607	DA	N1-C6-N6	12.04	125.82	118.60
42	Ai	11	DA	N1-C6-N6	12.04	125.82	118.60
128	CK	10	DA	N1-C6-N6	12.04	125.82	118.60
1	AA	6997	DA	N1-C6-N6	12.04	125.82	118.60
39	Af	31	DA	N1-C6-N6	12.04	125.82	118.60
46	Am	14	DA	N1-C6-N6	12.04	125.82	118.60
71	BG	3	DA	N1-C6-N6	12.04	125.82	118.60
120	CC	38	DA	N1-C6-N6	12.04	125.82	118.60
1	AA	46	DA	N1-C6-N6	12.04	125.82	118.60
1	AA	5226	DA	N1-C6-N6	12.04	125.82	118.60
1	AA	7189	DA	N1-C6-N6	12.04	125.82	118.60
30	AU	21	DA	N1-C6-N6	12.04	125.82	118.60
39	Af	28	DA	N1-C6-N6	12.04	125.82	118.60
95	Be	27	DA	N1-C6-N6	12.04	125.82	118.60
127	CJ	33	DA	N1-C6-N6	12.04	125.82	118.60
95	Be	39	DA	N1-C6-N6	12.03	125.82	118.60
1	AA	2024	DA	N1-C6-N6	12.03	125.82	118.60
1	AA	2255	DA	N1-C6-N6	12.03	125.82	118.60
34	AY	36	DA	N1-C6-N6	12.03	125.82	118.60
49	As	8	DA	N1-C6-N6	12.03	125.82	118.60
121	CD	45	DA	N1-C6-N6	12.03	125.82	118.60
137	CT	19	DA	N1-C6-N6	12.03	125.82	118.60
157	Cu	23	DA	N1-C6-N6	12.03	125.82	118.60
158	Cv	7	DT	P-O3'-C3'	12.03	134.14	119.70
1	AA	1780	DA	N1-C6-N6	12.03	125.82	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3244	DA	N1-C6-N6	12.03	125.82	118.60
9	A7	10	DA	N1-C6-N6	12.03	125.82	118.60
116	C6	13	DA	N1-C6-N6	12.03	125.82	118.60
1	AA	6194	DA	N1-C6-N6	12.03	125.82	118.60
1	AA	6365	DA	N1-C6-N6	12.03	125.82	118.60
44	Ak	30	DA	N1-C6-N6	12.03	125.82	118.60
142	CY	18	DA	N1-C6-N6	12.03	125.82	118.60
153	Cq	4	DA	N1-C6-N6	12.03	125.82	118.60
1	AA	1189	DA	N1-C6-N6	12.03	125.81	118.60
1	AA	1506	DA	N1-C6-N6	12.03	125.81	118.60
1	AA	1669	DA	N1-C6-N6	12.03	125.82	118.60
1	AA	3032	DA	N1-C6-N6	12.03	125.81	118.60
1	AA	4121	DA	N1-C6-N6	12.03	125.81	118.60
26	AQ	37	DA	N1-C6-N6	12.03	125.82	118.60
1	AA	2324	DA	N1-C6-N6	12.02	125.81	118.60
1	AA	2989	DA	N1-C6-N6	12.02	125.81	118.60
1	AA	3220	DA	N1-C6-N6	12.02	125.81	118.60
1	AA	6079	DA	N1-C6-N6	12.02	125.81	118.60
116	C6	7	DA	N1-C6-N6	12.02	125.81	118.60
149	Cg	26	DA	N1-C6-N6	12.02	125.81	118.60
1	AA	6840	DA	N1-C6-N6	12.02	125.81	118.60
149	Cg	2	DA	N1-C6-N6	12.02	125.81	118.60
1	AA	1031	DA	N1-C6-N6	12.02	125.81	118.60
1	AA	3929	DA	N1-C6-N6	12.02	125.81	118.60
1	AA	4360	DA	N1-C6-N6	12.02	125.81	118.60
130	CM	14	DA	N1-C6-N6	12.02	125.81	118.60
1	AA	6080	DA	N1-C6-N6	12.02	125.81	118.60
1	AA	6752	DA	N1-C6-N6	12.02	125.81	118.60
8	A6	10	DA	N1-C6-N6	12.02	125.81	118.60
28	AS	45	DA	N1-C6-N6	12.02	125.81	118.60
160	Cx	41	DA	N1-C6-N6	12.02	125.81	118.60
157	Cu	1	DA	N1-C6-N6	12.02	125.81	118.60
157	Cu	14	DA	N1-C6-N6	12.02	125.81	118.60
1	AA	2056	DA	N1-C6-N6	12.01	125.81	118.60
69	BE	14	DA	N1-C6-N6	12.01	125.81	118.60
142	CY	42	DA	N1-C6-N6	12.01	125.81	118.60
1	AA	5438	DA	N1-C6-N6	12.01	125.81	118.60
1	AA	5464	DC	O4'-C4'-C3'	-12.01	98.79	106.00
38	Ad	37	DA	N1-C6-N6	12.01	125.81	118.60
130	CM	29	DA	N1-C6-N6	12.01	125.81	118.60
157	Cu	44	DA	N1-C6-N6	12.01	125.81	118.60
1	AA	3729	DA	N1-C6-N6	12.01	125.80	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5746	DA	N1-C6-N6	12.01	125.80	118.60
1	AA	6650	DA	N1-C6-N6	12.01	125.81	118.60
26	AQ	31	DA	N1-C6-N6	12.01	125.80	118.60
88	BX	40	DA	N1-C6-N6	12.01	125.81	118.60
1	AA	751	DA	N1-C6-N6	12.01	125.80	118.60
1	AA	6518	DA	N1-C6-N6	12.01	125.80	118.60
14	AE	31	DA	N1-C6-N6	12.01	125.80	118.60
39	Af	13	DA	N1-C6-N6	12.01	125.80	118.60
87	BW	37	DA	N1-C6-N6	12.00	125.80	118.60
1	AA	3523	DA	N1-C6-N6	12.00	125.80	118.60
59	B3	40	DA	N1-C6-N6	12.00	125.80	118.60
154	Cr	43	DG	P-O3'-C3'	12.00	134.10	119.70
1	AA	250	DA	N1-C6-N6	12.00	125.80	118.60
1	AA	839	DA	N1-C6-N6	12.00	125.80	118.60
1	AA	3099	DA	N1-C6-N6	12.00	125.80	118.60
144	Cb	34	DA	N1-C6-N6	12.00	125.80	118.60
145	Cc	1	DA	N1-C6-N6	12.00	125.80	118.60
157	Cu	13	DA	N1-C6-N6	12.00	125.80	118.60
158	Cv	37	DA	N1-C6-N6	12.00	125.80	118.60
1	AA	1298	DA	N1-C6-N6	12.00	125.80	118.60
1	AA	1968	DA	N1-C6-N6	12.00	125.80	118.60
1	AA	2476	DA	N1-C6-N6	12.00	125.80	118.60
1	AA	3486	DA	N1-C6-N6	12.00	125.80	118.60
1	AA	4332	DA	N1-C6-N6	12.00	125.80	118.60
1	AA	4525	DA	N1-C6-N6	12.00	125.80	118.60
1	AA	4878	DA	N1-C6-N6	12.00	125.80	118.60
37	Ac	64	DA	N1-C6-N6	12.00	125.80	118.60
109	Bs	9	DA	N1-C6-N6	12.00	125.80	118.60
144	Cb	37	DA	N1-C6-N6	12.00	125.80	118.60
95	Be	47	DA	N1-C6-N6	12.00	125.80	118.60
105	Bo	27	DA	N1-C6-N6	12.00	125.80	118.60
132	CO	4	DA	N1-C6-N6	12.00	125.80	118.60
147	Ce	23	DA	N1-C6-N6	12.00	125.80	118.60
62	B6	36	DA	N1-C6-N6	11.99	125.80	118.60
1	AA	144	DA	N1-C6-N6	11.99	125.80	118.60
1	AA	4808	DA	N1-C6-N6	11.99	125.80	118.60
1	AA	6678	DA	N1-C6-N6	11.99	125.80	118.60
139	CV	18	DA	N1-C6-N6	11.99	125.80	118.60
1	AA	2042	DA	N1-C6-N6	11.99	125.80	118.60
1	AA	2819	DA	N1-C6-N6	11.99	125.80	118.60
1	AA	4891	DA	N1-C6-N6	11.99	125.80	118.60
153	Cq	24	DA	N1-C6-N6	11.99	125.80	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5517	DA	N1-C6-N6	11.99	125.80	118.60
1	AA	6940	DA	N1-C6-N6	11.99	125.80	118.60
18	AI	45	DA	N1-C6-N6	11.99	125.80	118.60
74	BJ	43	DA	N1-C6-N6	11.99	125.80	118.60
120	CC	20	DA	N1-C6-N6	11.99	125.80	118.60
152	Cp	42	DA	N1-C6-N6	11.99	125.80	118.60
1	AA	1724	DA	N1-C6-N6	11.99	125.79	118.60
1	AA	2939	DA	N1-C6-N6	11.99	125.80	118.60
112	C2	13	DA	N1-C6-N6	11.99	125.80	118.60
65	B9	9	DA	N1-C6-N6	11.99	125.79	118.60
1	AA	365	DA	N1-C6-N6	11.99	125.79	118.60
1	AA	6636	DA	N1-C6-N6	11.99	125.79	118.60
12	AC	24	DA	N1-C6-N6	11.99	125.79	118.60
153	Cq	29	DA	N1-C6-N6	11.99	125.79	118.60
1	AA	5047	DA	N1-C6-N6	11.98	125.79	118.60
1	AA	5189	DA	N1-C6-N6	11.98	125.79	118.60
1	AA	5406	DA	N1-C6-N6	11.98	125.79	118.60
99	Bi	43	DA	N1-C6-N6	11.98	125.79	118.60
143	CZ	13	DA	N1-C6-N6	11.98	125.79	118.60
1	AA	5541	DA	N1-C6-N6	11.98	125.79	118.60
81	BQ	40	DA	N1-C6-N6	11.98	125.79	118.60
155	Cs	40	DA	N1-C6-N6	11.98	125.79	118.60
1	AA	4917	DA	N1-C6-N6	11.98	125.79	118.60
32	AW	43	DA	N1-C6-N6	11.98	125.79	118.60
66	BB	30	DA	N1-C6-N6	11.98	125.79	118.60
94	Bd	21	DA	N1-C6-N6	11.98	125.79	118.60
1	AA	5017	DA	N1-C6-N6	11.98	125.79	118.60
63	B7	26	DA	N1-C6-N6	11.98	125.79	118.60
1	AA	3153	DA	N1-C6-N6	11.98	125.79	118.60
1	AA	4472	DA	N1-C6-N6	11.98	125.79	118.60
1	AA	5495	DA	N1-C6-N6	11.98	125.79	118.60
1	AA	6730	DA	N1-C6-N6	11.98	125.79	118.60
23	AN	13	DA	N1-C6-N6	11.98	125.79	118.60
133	CP	16	DA	N1-C6-N6	11.98	125.79	118.60
74	BJ	13	DA	N1-C6-N6	11.98	125.79	118.60
1	AA	5233	DA	N1-C6-N6	11.97	125.78	118.60
46	Am	28	DA	N1-C6-N6	11.97	125.78	118.60
1	AA	1318	DA	N1-C6-N6	11.97	125.78	118.60
1	AA	6738	DG	O4'-C4'-C3'	-11.97	98.82	106.00
1	AA	6993	DA	N1-C6-N6	11.97	125.78	118.60
1	AA	5302	DA	N1-C6-N6	11.97	125.78	118.60
10	A8	11	DA	N1-C6-N6	11.97	125.78	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
18	AI	36	DA	N1-C6-N6	11.97	125.78	118.60
1	AA	1052	DA	N1-C6-N6	11.97	125.78	118.60
95	Be	25	DC	O4'-C4'-C3'	-11.97	98.82	106.00
1	AA	1683	DA	N1-C6-N6	11.96	125.78	118.60
1	AA	3752	DA	N1-C6-N6	11.96	125.78	118.60
1	AA	6323	DA	N1-C6-N6	11.96	125.78	118.60
19	AJ	41	DA	N1-C6-N6	11.96	125.78	118.60
56	B0	28	DA	N1-C6-N6	11.97	125.78	118.60
58	B2	9	DA	N1-C6-N6	11.96	125.78	118.60
1	AA	369	DA	N1-C6-N6	11.96	125.78	118.60
1	AA	2548	DA	N1-C6-N6	11.96	125.78	118.60
1	AA	2667	DA	N1-C6-N6	11.96	125.78	118.60
1	AA	4705	DA	N1-C6-N6	11.96	125.78	118.60
1	AA	5212	DA	N1-C6-N6	11.96	125.78	118.60
21	AL	32	DA	N1-C6-N6	11.96	125.78	118.60
1	AA	6727	DA	N1-C6-N6	11.96	125.78	118.60
114	C4	63	DA	N1-C6-N6	11.96	125.78	118.60
1	AA	1123	DA	N1-C6-N6	11.96	125.78	118.60
1	AA	1345	DA	N1-C6-N6	11.96	125.78	118.60
2	A0	15	DA	N1-C6-N6	11.96	125.78	118.60
23	AN	21	DA	N1-C6-N6	11.96	125.78	118.60
98	Bh	8	DA	N1-C6-N6	11.96	125.77	118.60
101	Bk	22	DA	N1-C6-N6	11.96	125.77	118.60
109	Bs	10	DA	N1-C6-N6	11.96	125.78	118.60
90	BZ	27	DA	N1-C6-N6	11.96	125.77	118.60
1	AA	5937	DA	O4'-C4'-C3'	-11.95	98.83	106.00
1	AA	990	DA	N1-C6-N6	11.95	125.77	118.60
107	Bq	52	DA	N1-C6-N6	11.95	125.77	118.60
1	AA	4812	DA	N1-C6-N6	11.95	125.77	118.60
1	AA	5132	DA	N1-C6-N6	11.95	125.77	118.60
82	BR	63	DA	N1-C6-N6	11.95	125.77	118.60
108	Br	38	DA	N1-C6-N6	11.95	125.77	118.60
116	C6	24	DA	N1-C6-N6	11.95	125.77	118.60
1	AA	6643	DA	N1-C6-N6	11.95	125.77	118.60
30	AU	14	DA	N1-C6-N6	11.95	125.77	118.60
51	Av	26	DA	N1-C6-N6	11.95	125.77	118.60
70	BF	5	DA	N1-C6-N6	11.95	125.77	118.60
88	BX	43	DA	N1-C6-N6	11.95	125.77	118.60
120	CC	42	DA	N1-C6-N6	11.95	125.77	118.60
135	CR	2	DA	N1-C6-N6	11.95	125.77	118.60
13	AD	23	DA	N1-C6-N6	11.95	125.77	118.60
45	Al	10	DA	N1-C6-N6	11.95	125.77	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	BE	44	DA	N1-C6-N6	11.95	125.77	118.60
1	AA	1793	DA	N1-C6-N6	11.95	125.77	118.60
1	AA	1930	DA	N1-C6-N6	11.95	125.77	118.60
1	AA	2438	DA	N1-C6-N6	11.95	125.77	118.60
1	AA	5097	DA	N1-C6-N6	11.95	125.77	118.60
4	A2	15	DA	N1-C6-N6	11.95	125.77	118.60
9	A7	25	DC	O4'-C4'-C3'	-11.95	98.83	106.00
30	AU	44	DA	N1-C6-N6	11.95	125.77	118.60
92	Bb	24	DA	N1-C6-N6	11.95	125.77	118.60
64	B8	32	DA	N1-C6-N6	11.95	125.77	118.60
104	Bn	37	DA	N1-C6-N6	11.95	125.77	118.60
105	Bo	28	DA	N1-C6-N6	11.95	125.77	118.60
143	CZ	35	DA	N1-C6-N6	11.95	125.77	118.60
1	AA	959	DA	N1-C6-N6	11.94	125.77	118.60
1	AA	5264	DA	N1-C6-N6	11.94	125.77	118.60
1	AA	5456	DA	N1-C6-N6	11.94	125.77	118.60
1	AA	7177	DA	N1-C6-N6	11.94	125.77	118.60
42	Ai	2	DA	N1-C6-N6	11.94	125.77	118.60
148	Cf	47	DA	N1-C6-N6	11.94	125.77	118.60
108	Br	28	DA	N1-C6-N6	11.94	125.76	118.60
1	AA	3229	DA	N1-C6-N6	11.94	125.76	118.60
1	AA	5489	DA	N1-C6-N6	11.94	125.76	118.60
26	AQ	54	DA	N1-C6-N6	11.94	125.76	118.60
124	CG	7	DA	N1-C6-N6	11.94	125.76	118.60
137	CT	30	DA	N1-C6-N6	11.94	125.76	118.60
1	AA	6649	DA	N1-C6-N6	11.94	125.76	118.60
1	AA	7235	DA	N1-C6-N6	11.94	125.76	118.60
141	CX	25	DA	N1-C6-N6	11.94	125.76	118.60
158	Cv	15	DT	P-O3'-C3'	11.94	134.02	119.70
1	AA	374	DA	N1-C6-N6	11.93	125.76	118.60
38	Ad	48	DA	N1-C6-N6	11.93	125.76	118.60
103	Bm	39	DA	N1-C6-N6	11.93	125.76	118.60
135	CR	24	DA	N1-C6-N6	11.93	125.76	118.60
34	AY	13	DA	N1-C6-N6	11.93	125.76	118.60
86	BV	33	DA	N1-C6-N6	11.93	125.76	118.60
120	CC	44	DA	N1-C6-N6	11.93	125.76	118.60
1	AA	657	DA	N1-C6-N6	11.93	125.76	118.60
1	AA	1522	DA	N1-C6-N6	11.93	125.76	118.60
14	AE	6	DA	N1-C6-N6	11.93	125.76	118.60
142	CY	13	DA	N1-C6-N6	11.93	125.76	118.60
1	AA	5163	DA	N1-C6-N6	11.93	125.76	118.60
7	A5	23	DA	N1-C6-N6	11.93	125.76	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
36	Ab	29	DA	N1-C6-N6	11.93	125.76	118.60
12	AC	2	DA	N1-C6-N6	11.93	125.76	118.60
40	Ag	20	DA	N1-C6-N6	11.93	125.76	118.60
57	B1	36	DA	N1-C6-N6	11.93	125.76	118.60
57	B1	45	DA	N1-C6-N6	11.93	125.76	118.60
78	BN	59	DA	N1-C6-N6	11.93	125.76	118.60
105	Bo	67	DA	N1-C6-N6	11.93	125.76	118.60
4	A2	4	DA	N1-C6-N6	11.93	125.75	118.60
5	A3	13	DA	N1-C6-N6	11.93	125.76	118.60
26	AQ	18	DG	P-O3'-C3'	11.93	134.01	119.70
43	Aj	35	DA	N1-C6-N6	11.93	125.76	118.60
98	Bh	7	DA	N1-C6-N6	11.93	125.76	118.60
147	Ce	6	DA	N1-C6-N6	11.93	125.76	118.60
158	Cv	21	DA	N1-C6-N6	11.93	125.76	118.60
162	Cz	37	DA	N1-C6-N6	11.93	125.75	118.60
1	AA	217	DA	N1-C6-N6	11.92	125.75	118.60
1	AA	1992	DA	N1-C6-N6	11.92	125.75	118.60
1	AA	3662	DA	N1-C6-N6	11.92	125.75	118.60
1	AA	5449	DA	N1-C6-N6	11.92	125.75	118.60
1	AA	6222	DA	N1-C6-N6	11.92	125.75	118.60
18	AI	7	DA	N1-C6-N6	11.92	125.75	118.60
70	BF	24	DA	N1-C6-N6	11.92	125.75	118.60
75	BK	7	DC	O4'-C4'-C3'	-11.92	98.85	106.00
91	Ba	29	DA	N1-C6-N6	11.92	125.75	118.60
135	CR	41	DA	N1-C6-N6	11.92	125.75	118.60
138	CU	5	DA	N1-C6-N6	11.92	125.75	118.60
160	Cx	8	DA	N1-C6-N6	11.92	125.75	118.60
1	AA	1861	DA	N1-C6-N6	11.92	125.75	118.60
1	AA	6657	DA	N1-C6-N6	11.92	125.75	118.60
1	AA	3600	DA	N1-C6-N6	11.92	125.75	118.60
1	AA	5314	DA	N1-C6-N6	11.92	125.75	118.60
22	AM	16	DA	N1-C6-N6	11.92	125.75	118.60
31	AV	48	DA	N1-C6-N6	11.92	125.75	118.60
36	Ab	35	DA	N1-C6-N6	11.92	125.75	118.60
39	Af	44	DA	N1-C6-N6	11.92	125.75	118.60
101	Bk	25	DA	N1-C6-N6	11.92	125.75	118.60
113	C3	18	DA	N1-C6-N6	11.92	125.75	118.60
144	Cb	23	DA	N1-C6-N6	11.92	125.75	118.60
145	Cc	3	DA	N1-C6-N6	11.92	125.75	118.60
71	BG	31	DA	N1-C6-N6	11.92	125.75	118.60
111	C1	41	DA	N1-C6-N6	11.92	125.75	118.60
130	CM	10	DA	N1-C6-N6	11.92	125.75	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
148	Cf	21	DA	N1-C6-N6	11.92	125.75	118.60
1	AA	3445	DA	N1-C6-N6	11.91	125.75	118.60
139	CV	13	DA	N1-C6-N6	11.91	125.75	118.60
155	Cs	5	DA	N1-C6-N6	11.91	125.75	118.60
1	AA	5013	DA	N1-C6-N6	11.91	125.75	118.60
1	AA	5609	DA	N1-C6-N6	11.91	125.75	118.60
107	Bq	51	DA	N1-C6-N6	11.91	125.75	118.60
147	Ce	16	DA	N1-C6-N6	11.91	125.75	118.60
28	AS	39	DA	N1-C6-N6	11.91	125.75	118.60
45	Al	4	DA	N1-C6-N6	11.91	125.75	118.60
62	B6	27	DA	N1-C6-N6	11.91	125.75	118.60
114	C4	10	DA	N1-C6-N6	11.91	125.75	118.60
116	C6	25	DA	N1-C6-N6	11.91	125.75	118.60
1	AA	930	DA	N1-C6-N6	11.91	125.75	118.60
1	AA	2889	DA	N1-C6-N6	11.91	125.75	118.60
1	AA	3183	DA	N1-C6-N6	11.91	125.75	118.60
1	AA	5304	DA	N1-C6-N6	11.91	125.75	118.60
71	BG	3	DA	P-O3'-C3'	11.91	133.99	119.70
147	Ce	15	DA	N1-C6-N6	11.91	125.75	118.60
12	AC	6	DA	N1-C6-N6	11.91	125.75	118.60
24	AO	29	DA	N1-C6-N6	11.91	125.75	118.60
44	Ak	42	DA	N1-C6-N6	11.91	125.75	118.60
97	Bg	40	DA	N1-C6-N6	11.91	125.75	118.60
115	C5	42	DA	N1-C6-N6	11.91	125.75	118.60
149	Cg	13	DA	N1-C6-N6	11.91	125.75	118.60
1	AA	1004	DA	N1-C6-N6	11.91	125.74	118.60
1	AA	1653	DA	N1-C6-N6	11.91	125.75	118.60
1	AA	2564	DA	N1-C6-N6	11.91	125.74	118.60
1	AA	4796	DG	P-O3'-C3'	11.91	133.99	119.70
85	BU	50	DA	N1-C6-N6	11.91	125.75	118.60
127	CJ	50	DA	N1-C6-N6	11.91	125.75	118.60
1	AA	2784	DA	N1-C6-N6	11.91	125.74	118.60
1	AA	3185	DA	N1-C6-N6	11.91	125.74	118.60
1	AA	5295	DA	N1-C6-N6	11.91	125.74	118.60
41	Ah	26	DA	N1-C6-N6	11.91	125.74	118.60
154	Cr	40	DC	P-O3'-C3'	11.91	133.99	119.70
1	AA	433	DA	N1-C6-N6	11.90	125.74	118.60
1	AA	1624	DA	N1-C6-N6	11.90	125.74	118.60
1	AA	2820	DA	N1-C6-N6	11.90	125.74	118.60
1	AA	5390	DA	N1-C6-N6	11.90	125.74	118.60
130	CM	50	DA	N1-C6-N6	11.90	125.74	118.60
1	AA	6872	DA	N1-C6-N6	11.90	125.74	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
37	Ac	55	DA	N1-C6-N6	11.90	125.74	118.60
110	C0	31	DA	N1-C6-N6	11.90	125.74	118.60
119	CB	21	DA	N1-C6-N6	11.90	125.74	118.60
1	AA	1933	DA	N1-C6-N6	11.90	125.74	118.60
1	AA	3020	DA	N1-C6-N6	11.90	125.74	118.60
1	AA	3835	DA	N1-C6-N6	11.90	125.74	118.60
1	AA	4461	DA	N1-C6-N6	11.90	125.74	118.60
1	AA	4704	DA	N1-C6-N6	11.90	125.74	118.60
1	AA	7208	DA	N1-C6-N6	11.90	125.74	118.60
87	BW	8	DA	N1-C6-N6	11.90	125.74	118.60
1	AA	3053	DA	N1-C6-N6	11.90	125.74	118.60
1	AA	4181	DA	N1-C6-N6	11.90	125.74	118.60
1	AA	72	DA	N1-C6-N6	11.90	125.74	118.60
1	AA	111	DA	N1-C6-N6	11.90	125.74	118.60
1	AA	1010	DA	N1-C6-N6	11.90	125.74	118.60
1	AA	3562	DA	N1-C6-N6	11.90	125.74	118.60
14	AE	29	DA	N1-C6-N6	11.90	125.74	118.60
50	Au	8	DA	N1-C6-N6	11.90	125.74	118.60
67	BC	37	DA	N1-C6-N6	11.90	125.74	118.60
78	BN	38	DA	N1-C6-N6	11.90	125.74	118.60
124	CG	38	DA	N1-C6-N6	11.90	125.74	118.60
142	CY	20	DA	N1-C6-N6	11.90	125.74	118.60
1	AA	497	DA	N1-C6-N6	11.89	125.74	118.60
1	AA	3616	DA	N1-C6-N6	11.89	125.74	118.60
1	AA	6113	DA	N1-C6-N6	11.89	125.74	118.60
126	CI	23	DA	N1-C6-N6	11.89	125.74	118.60
1	AA	1763	DA	N1-C6-N6	11.89	125.73	118.60
1	AA	6751	DA	N1-C6-N6	11.89	125.73	118.60
1	AA	6900	DA	N1-C6-N6	11.89	125.73	118.60
7	A5	11	DA	N1-C6-N6	11.89	125.73	118.60
59	B3	41	DA	N1-C6-N6	11.89	125.73	118.60
94	Bd	14	DA	N1-C6-N6	11.89	125.73	118.60
130	CM	37	DA	N1-C6-N6	11.89	125.73	118.60
132	CO	11	DA	N1-C6-N6	11.89	125.73	118.60
141	CX	42	DA	N1-C6-N6	11.89	125.73	118.60
1	AA	16	DC	P-O3'-C3'	11.89	133.97	119.70
1	AA	4939	DA	N1-C6-N6	11.89	125.73	118.60
76	BL	47	DA	N1-C6-N6	11.89	125.73	118.60
1	AA	5655	DA	N1-C6-N6	11.89	125.73	118.60
16	AG	29	DA	N1-C6-N6	11.89	125.73	118.60
77	BM	5	DA	N1-C6-N6	11.89	125.73	118.60
1	AA	647	DC	O4'-C4'-C3'	-11.88	98.87	106.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2541	DA	N1-C6-N6	11.88	125.73	118.60
1	AA	2908	DA	N1-C6-N6	11.88	125.73	118.60
1	AA	2935	DA	N1-C6-N6	11.88	125.73	118.60
1	AA	3222	DA	N1-C6-N6	11.89	125.73	118.60
1	AA	3659	DA	N1-C6-N6	11.89	125.73	118.60
1	AA	5739	DA	N1-C6-N6	11.89	125.73	118.60
39	Af	11	DA	N1-C6-N6	11.89	125.73	118.60
1	AA	4238	DA	N1-C6-N6	11.88	125.73	118.60
1	AA	5530	DA	N1-C6-N6	11.88	125.73	118.60
32	AW	44	DA	N1-C6-N6	11.88	125.73	118.60
69	BE	31	DA	N1-C6-N6	11.88	125.73	118.60
128	CK	46	DA	N1-C6-N6	11.88	125.73	118.60
157	Cu	4	DA	N1-C6-N6	11.88	125.73	118.60
1	AA	47	DA	N1-C6-N6	11.88	125.73	118.60
1	AA	5507	DA	N1-C6-N6	11.88	125.73	118.60
1	AA	6222	DA	P-O3'-C3'	11.88	133.96	119.70
1	AA	1344	DA	N1-C6-N6	11.88	125.73	118.60
40	Ag	25	DA	N1-C6-N6	11.88	125.73	118.60
65	B9	13	DA	N1-C6-N6	11.88	125.73	118.60
77	BM	37	DA	N1-C6-N6	11.88	125.73	118.60
103	Bm	21	DA	N1-C6-N6	11.88	125.73	118.60
109	Bs	41	DA	N1-C6-N6	11.88	125.73	118.60
143	CZ	9	DA	N1-C6-N6	11.88	125.73	118.60
157	Cu	6	DA	N1-C6-N6	11.88	125.73	118.60
1	AA	2442	DA	N1-C6-N6	11.88	125.73	118.60
1	AA	4952	DA	N1-C6-N6	11.88	125.73	118.60
1	AA	6345	DA	N1-C6-N6	11.88	125.73	118.60
18	AI	37	DA	N1-C6-N6	11.88	125.73	118.60
54	Ay	14	DA	N1-C6-N6	11.88	125.73	118.60
145	Cc	35	DA	N1-C6-N6	11.88	125.73	118.60
159	Cw	33	DA	N1-C6-N6	11.88	125.73	118.60
1	AA	3572	DA	N1-C6-N6	11.88	125.73	118.60
1	AA	627	DA	N1-C6-N6	11.87	125.72	118.60
1	AA	4376	DG	P-O3'-C3'	11.87	133.95	119.70
1	AA	6271	DA	N1-C6-N6	11.87	125.72	118.60
73	BI	25	DA	N1-C6-N6	11.88	125.72	118.60
130	CM	16	DA	N1-C6-N6	11.88	125.72	118.60
1	AA	4617	DC	O4'-C4'-C3'	-11.87	98.88	106.00
1	AA	5439	DA	N1-C6-N6	11.87	125.72	118.60
4	A2	48	DA	N1-C6-N6	11.87	125.72	118.60
1	AA	4860	DA	N1-C6-N6	11.87	125.72	118.60
1	AA	5383	DA	N1-C6-N6	11.87	125.72	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
68	BD	32	DA	N1-C6-N6	11.87	125.72	118.60
72	BH	17	DA	N1-C6-N6	11.87	125.72	118.60
85	BU	40	DA	P-O3'-C3'	11.87	133.95	119.70
1	AA	462	DA	N1-C6-N6	11.87	125.72	118.60
1	AA	2630	DA	N1-C6-N6	11.87	125.72	118.60
6	A4	23	DA	N1-C6-N6	11.87	125.72	118.60
30	AU	31	DA	N1-C6-N6	11.87	125.72	118.60
101	Bk	2	DA	N1-C6-N6	11.87	125.72	118.60
142	CY	2	DA	N1-C6-N6	11.87	125.72	118.60
1	AA	533	DA	N1-C6-N6	11.87	125.72	118.60
1	AA	5620	DA	N1-C6-N6	11.87	125.72	118.60
34	AY	30	DA	N1-C6-N6	11.87	125.72	118.60
1	AA	5	DA	N1-C6-N6	11.87	125.72	118.60
1	AA	4268	DA	N1-C6-N6	11.87	125.72	118.60
1	AA	5896	DA	N1-C6-N6	11.87	125.72	118.60
37	Ac	41	DA	N1-C6-N6	11.87	125.72	118.60
50	Au	16	DA	N1-C6-N6	11.87	125.72	118.60
80	BP	23	DA	N1-C6-N6	11.87	125.72	118.60
132	CO	40	DA	N1-C6-N6	11.87	125.72	118.60
148	Cf	41	DA	N1-C6-N6	11.87	125.72	118.60
1	AA	3933	DA	N1-C6-N6	11.86	125.72	118.60
1	AA	5575	DA	N1-C6-N6	11.86	125.72	118.60
136	CS	45	DA	N1-C6-N6	11.86	125.72	118.60
1	AA	1983	DA	N1-C6-N6	11.86	125.72	118.60
1	AA	3526	DA	N1-C6-N6	11.86	125.72	118.60
1	AA	3690	DA	N1-C6-N6	11.86	125.72	118.60
1	AA	4244	DA	N1-C6-N6	11.86	125.72	118.60
1	AA	5123	DA	N1-C6-N6	11.86	125.72	118.60
1	AA	5587	DA	N1-C6-N6	11.86	125.72	118.60
1	AA	3349	DA	N1-C6-N6	11.86	125.72	118.60
1	AA	3751	DA	N1-C6-N6	11.86	125.72	118.60
1	AA	4950	DA	N1-C6-N6	11.86	125.72	118.60
1	AA	5305	DA	N1-C6-N6	11.86	125.72	118.60
1	AA	6145	DA	N1-C6-N6	11.86	125.72	118.60
1	AA	6343	DA	N1-C6-N6	11.86	125.72	118.60
77	BM	24	DA	N1-C6-N6	11.86	125.72	118.60
1	AA	2493	DA	N1-C6-N6	11.86	125.71	118.60
1	AA	4677	DA	N1-C6-N6	11.86	125.71	118.60
1	AA	6662	DA	N1-C6-N6	11.86	125.71	118.60
44	Ak	13	DA	N1-C6-N6	11.86	125.71	118.60
98	Bh	2	DA	N1-C6-N6	11.86	125.71	118.60
30	AU	47	DA	N1-C6-N6	11.86	125.71	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
77	BM	18	DA	N1-C6-N6	11.86	125.71	118.60
102	Bl	22	DA	N1-C6-N6	11.86	125.71	118.60
149	Cg	11	DA	N1-C6-N6	11.86	125.71	118.60
1	AA	2446	DA	N1-C6-N6	11.85	125.71	118.60
1	AA	709	DA	N1-C6-N6	11.85	125.71	118.60
1	AA	4175	DA	N1-C6-N6	11.85	125.71	118.60
1	AA	6132	DA	N1-C6-N6	11.85	125.71	118.60
1	AA	4608	DA	N1-C6-N6	11.85	125.71	118.60
1	AA	7200	DA	N1-C6-N6	11.85	125.71	118.60
35	AZ	45	DA	N1-C6-N6	11.85	125.71	118.60
1	AA	1710	DA	N1-C6-N6	11.85	125.71	118.60
1	AA	3543	DA	N1-C6-N6	11.85	125.71	118.60
7	A5	30	DA	N1-C6-N6	11.85	125.71	118.60
47	An	46	DA	N1-C6-N6	11.85	125.71	118.60
133	CP	42	DA	N1-C6-N6	11.85	125.71	118.60
1	AA	5346	DA	N1-C6-N6	11.85	125.71	118.60
1	AA	467	DA	N1-C6-N6	11.85	125.71	118.60
1	AA	2236	DA	N1-C6-N6	11.85	125.71	118.60
1	AA	2639	DA	N1-C6-N6	11.85	125.71	118.60
4	A2	40	DA	N1-C6-N6	11.85	125.71	118.60
113	C3	41	DA	N1-C6-N6	11.85	125.71	118.60
135	CR	20	DA	N1-C6-N6	11.85	125.71	118.60
150	Ch	19	DA	N1-C6-N6	11.85	125.71	118.60
26	AQ	34	DA	N1-C6-N6	11.84	125.71	118.60
28	AS	15	DA	N1-C6-N6	11.84	125.70	118.60
52	Aw	21	DA	N1-C6-N6	11.84	125.71	118.60
73	BI	9	DA	N1-C6-N6	11.84	125.71	118.60
80	BP	46	DA	N1-C6-N6	11.84	125.70	118.60
128	CK	5	DA	N1-C6-N6	11.84	125.70	118.60
114	C4	22	DA	N1-C6-N6	11.84	125.70	118.60
1	AA	1434	DA	N1-C6-N6	11.84	125.70	118.60
1	AA	1858	DA	N1-C6-N6	11.84	125.70	118.60
1	AA	5104	DA	N1-C6-N6	11.84	125.70	118.60
1	AA	6229	DA	N1-C6-N6	11.84	125.70	118.60
30	AU	12	DA	N1-C6-N6	11.84	125.70	118.60
31	AV	16	DA	N1-C6-N6	11.84	125.70	118.60
95	Be	19	DA	N1-C6-N6	11.84	125.70	118.60
116	C6	4	DA	N1-C6-N6	11.84	125.70	118.60
131	CN	30	DA	N1-C6-N6	11.84	125.70	118.60
139	CV	9	DA	N1-C6-N6	11.84	125.70	118.60
142	CY	40	DA	N1-C6-N6	11.84	125.70	118.60
161	Cy	58	DA	N1-C6-N6	11.84	125.70	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	803	DA	N1-C6-N6	11.84	125.70	118.60
1	AA	980	DA	N1-C6-N6	11.84	125.70	118.60
1	AA	1904	DA	N1-C6-N6	11.84	125.70	118.60
1	AA	1958	DA	N1-C6-N6	11.84	125.70	118.60
1	AA	3636	DA	N1-C6-N6	11.84	125.70	118.60
1	AA	3055	DA	N1-C6-N6	11.84	125.70	118.60
1	AA	3161	DA	N1-C6-N6	11.84	125.70	118.60
1	AA	4422	DT	P-O3'-C3'	11.84	133.91	119.70
1	AA	5211	DA	N1-C6-N6	11.84	125.70	118.60
130	CM	20	DA	N1-C6-N6	11.84	125.70	118.60
134	CQ	32	DA	N1-C6-N6	11.84	125.70	118.60
143	CZ	33	DA	N1-C6-N6	11.84	125.70	118.60
1	AA	113	DA	N1-C6-N6	11.83	125.70	118.60
1	AA	804	DA	N1-C6-N6	11.83	125.70	118.60
1	AA	2366	DA	N1-C6-N6	11.83	125.70	118.60
7	A5	9	DA	N1-C6-N6	11.83	125.70	118.60
14	AE	2	DA	N1-C6-N6	11.83	125.70	118.60
69	BE	58	DA	N1-C6-N6	11.83	125.70	118.60
157	Cu	24	DA	N1-C6-N6	11.83	125.70	118.60
1	AA	2472	DA	N1-C6-N6	11.83	125.70	118.60
1	AA	3667	DA	N1-C6-N6	11.83	125.70	118.60
7	A5	12	DA	N1-C6-N6	11.83	125.70	118.60
15	AF	32	DA	N1-C6-N6	11.83	125.70	118.60
112	C2	33	DA	N1-C6-N6	11.83	125.70	118.60
87	BW	30	DA	N1-C6-N6	11.83	125.70	118.60
142	CY	26	DA	N1-C6-N6	11.83	125.70	118.60
144	Cb	19	DA	N1-C6-N6	11.83	125.70	118.60
162	Cz	43	DA	N1-C6-N6	11.83	125.70	118.60
1	AA	341	DA	N1-C6-N6	11.83	125.70	118.60
1	AA	5865	DA	N1-C6-N6	11.83	125.70	118.60
1	AA	6164	DA	N1-C6-N6	11.83	125.70	118.60
1	AA	6578	DA	N1-C6-N6	11.83	125.70	118.60
1	AA	7207	DA	N1-C6-N6	11.83	125.70	118.60
33	AX	14	DA	N1-C6-N6	11.83	125.70	118.60
114	C4	50	DA	N1-C6-N6	11.83	125.70	118.60
1	AA	511	DA	N1-C6-N6	11.83	125.70	118.60
1	AA	992	DA	N1-C6-N6	11.83	125.70	118.60
1	AA	3754	DA	N1-C6-N6	11.83	125.70	118.60
1	AA	4665	DA	N1-C6-N6	11.83	125.70	118.60
9	A7	22	DA	N1-C6-N6	11.83	125.70	118.60
12	AC	28	DA	N1-C6-N6	11.83	125.70	118.60
41	Ah	25	DA	N1-C6-N6	11.83	125.70	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
75	BK	26	DA	N1-C6-N6	11.83	125.70	118.60
1	AA	6628	DA	N1-C6-N6	11.83	125.70	118.60
22	AM	31	DA	N1-C6-N6	11.83	125.69	118.60
55	Az	9	DA	N1-C6-N6	11.83	125.70	118.60
99	Bi	54	DA	N1-C6-N6	11.83	125.70	118.60
125	CH	48	DA	N1-C6-N6	11.83	125.70	118.60
137	CT	40	DA	N1-C6-N6	11.83	125.70	118.60
143	CZ	15	DA	N1-C6-N6	11.83	125.69	118.60
1	AA	5909	DA	N1-C6-N6	11.82	125.69	118.60
5	A3	39	DA	N1-C6-N6	11.82	125.69	118.60
143	CZ	39	DA	N1-C6-N6	11.82	125.69	118.60
1	AA	4739	DA	N1-C6-N6	11.82	125.69	118.60
1	AA	138	DA	N1-C6-N6	11.82	125.69	118.60
1	AA	4001	DA	N1-C6-N6	11.82	125.69	118.60
1	AA	2058	DA	N1-C6-N6	11.82	125.69	118.60
1	AA	4261	DA	N1-C6-N6	11.82	125.69	118.60
1	AA	4782	DA	N1-C6-N6	11.82	125.69	118.60
1	AA	6266	DA	N1-C6-N6	11.82	125.69	118.60
4	A2	6	DA	N1-C6-N6	11.82	125.69	118.60
8	A6	37	DA	N1-C6-N6	11.82	125.69	118.60
29	AT	18	DA	N1-C6-N6	11.82	125.69	118.60
88	BX	8	DA	N1-C6-N6	11.82	125.69	118.60
101	Bk	32	DA	N1-C6-N6	11.82	125.69	118.60
1	AA	1991	DA	N1-C6-N6	11.82	125.69	118.60
1	AA	3940	DA	N1-C6-N6	11.82	125.69	118.60
1	AA	5557	DA	N1-C6-N6	11.82	125.69	118.60
1	AA	6061	DA	N1-C6-N6	11.82	125.69	118.60
12	AC	12	DA	N1-C6-N6	11.82	125.69	118.60
93	Bc	45	DA	N1-C6-N6	11.82	125.69	118.60
99	Bi	19	DA	N1-C6-N6	11.82	125.69	118.60
101	Bk	21	DA	N1-C6-N6	11.82	125.69	118.60
129	CL	5	DA	N1-C6-N6	11.82	125.69	118.60
111	C1	36	DA	N1-C6-N6	11.82	125.69	118.60
158	Cv	2	DA	N1-C6-N6	11.82	125.69	118.60
1	AA	1937	DA	N1-C6-N6	11.81	125.69	118.60
1	AA	319	DA	N1-C6-N6	11.81	125.69	118.60
1	AA	331	DA	N1-C6-N6	11.81	125.69	118.60
1	AA	347	DA	N1-C6-N6	11.81	125.69	118.60
1	AA	2285	DA	N1-C6-N6	11.81	125.69	118.60
1	AA	4475	DA	N1-C6-N6	11.81	125.69	118.60
1	AA	4946	DA	N1-C6-N6	11.81	125.69	118.60
1	AA	5856	DA	N1-C6-N6	11.81	125.69	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
127	CJ	47	DA	N1-C6-N6	11.81	125.69	118.60
1	AA	6159	DA	N1-C6-N6	11.81	125.69	118.60
1	AA	6878	DA	N1-C6-N6	11.81	125.69	118.60
1	AA	6958	DA	N1-C6-N6	11.81	125.69	118.60
30	AU	32	DA	N1-C6-N6	11.81	125.69	118.60
102	Bl	39	DA	N1-C6-N6	11.81	125.69	118.60
1	AA	3558	DA	N1-C6-N6	11.81	125.69	118.60
1	AA	6570	DA	N1-C6-N6	11.81	125.69	118.60
1	AA	7206	DA	N1-C6-N6	11.81	125.69	118.60
114	C4	62	DA	N1-C6-N6	11.81	125.69	118.60
59	B3	28	DA	N1-C6-N6	11.81	125.69	118.60
73	BI	42	DA	N1-C6-N6	11.81	125.69	118.60
98	Bh	5	DA	N1-C6-N6	11.81	125.69	118.60
120	CC	39	DA	N1-C6-N6	11.81	125.69	118.60
1	AA	1028	DA	N1-C6-N6	11.81	125.69	118.60
1	AA	1525	DA	N1-C6-N6	11.81	125.69	118.60
1	AA	6183	DA	N1-C6-N6	11.81	125.69	118.60
15	AF	18	DA	N1-C6-N6	11.81	125.69	118.60
24	AO	13	DA	N1-C6-N6	11.81	125.69	118.60
20	AK	3	DA	N1-C6-N6	11.81	125.68	118.60
150	Ch	3	DA	N1-C6-N6	11.81	125.69	118.60
1	AA	1511	DA	N1-C6-N6	11.81	125.68	118.60
1	AA	2671	DA	N1-C6-N6	11.80	125.68	118.60
1	AA	3556	DA	N1-C6-N6	11.80	125.68	118.60
1	AA	4942	DA	N1-C6-N6	11.80	125.68	118.60
1	AA	5642	DA	N1-C6-N6	11.80	125.68	118.60
7	A5	13	DA	N1-C6-N6	11.80	125.68	118.60
62	B6	24	DA	N1-C6-N6	11.81	125.68	118.60
70	BF	35	DA	N1-C6-N6	11.81	125.68	118.60
80	BP	26	DA	N1-C6-N6	11.81	125.68	118.60
52	Aw	42	DA	N1-C6-N6	11.80	125.68	118.60
99	Bi	50	DA	N1-C6-N6	11.80	125.68	118.60
161	Cy	17	DA	N1-C6-N6	11.80	125.68	118.60
1	AA	3084	DA	N1-C6-N6	11.80	125.68	118.60
1	AA	6648	DA	N1-C6-N6	11.80	125.68	118.60
6	A4	35	DA	N1-C6-N6	11.80	125.68	118.60
117	C7	37	DA	N1-C6-N6	11.80	125.68	118.60
1	AA	5596	DA	N1-C6-N6	11.80	125.68	118.60
1	AA	6966	DA	N1-C6-N6	11.80	125.68	118.60
1	AA	7209	DA	N1-C6-N6	11.80	125.68	118.60
14	AE	26	DA	N1-C6-N6	11.80	125.68	118.60
17	AH	24	DA	N1-C6-N6	11.80	125.68	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
60	B4	16	DA	N1-C6-N6	11.80	125.68	118.60
60	B4	27	DA	N1-C6-N6	11.80	125.68	118.60
122	CE	35	DA	N1-C6-N6	11.80	125.68	118.60
1	AA	2821	DA	N1-C6-N6	11.80	125.68	118.60
79	BO	26	DA	N1-C6-N6	11.80	125.68	118.60
1	AA	2802	DA	N1-C6-N6	11.80	125.68	118.60
1	AA	5457	DA	N1-C6-N6	11.80	125.68	118.60
1	AA	5831	DA	N1-C6-N6	11.80	125.68	118.60
34	AY	17	DA	N1-C6-N6	11.80	125.68	118.60
78	BN	9	DA	N1-C6-N6	11.80	125.68	118.60
157	Cu	45	DA	N1-C6-N6	11.80	125.68	118.60
162	Cz	19	DA	N1-C6-N6	11.80	125.68	118.60
94	Bd	24	DA	N1-C6-N6	11.80	125.68	118.60
8	A6	49	DC	O4'-C1'-N1	11.79	116.26	108.00
40	Ag	7	DA	N1-C6-N6	11.80	125.68	118.60
58	B2	17	DA	N1-C6-N6	11.79	125.68	118.60
72	BH	27	DA	N1-C6-N6	11.80	125.68	118.60
76	BL	29	DA	N1-C6-N6	11.80	125.68	118.60
104	Bn	39	DA	N1-C6-N6	11.80	125.68	118.60
112	C2	2	DA	N1-C6-N6	11.79	125.68	118.60
112	C2	26	DA	N1-C6-N6	11.80	125.68	118.60
138	CU	14	DA	N1-C6-N6	11.79	125.68	118.60
141	CX	39	DA	N1-C6-N6	11.80	125.68	118.60
1	AA	590	DA	N1-C6-N6	11.79	125.68	118.60
1	AA	3679	DA	N1-C6-N6	11.79	125.68	118.60
1	AA	6209	DA	N1-C6-N6	11.79	125.68	118.60
134	CQ	2	DA	N1-C6-N6	11.79	125.68	118.60
1	AA	5420	DA	N1-C6-N6	11.79	125.67	118.60
25	AP	23	DA	N1-C6-N6	11.79	125.67	118.60
39	Af	20	DA	N1-C6-N6	11.79	125.67	118.60
50	Au	46	DA	N1-C6-N6	11.79	125.67	118.60
67	BC	39	DA	N1-C6-N6	11.79	125.68	118.60
101	Bk	37	DA	N1-C6-N6	11.79	125.67	118.60
109	Bs	18	DA	N1-C6-N6	11.79	125.67	118.60
123	CF	10	DA	N1-C6-N6	11.79	125.67	118.60
126	CI	1	DA	N1-C6-N6	11.79	125.67	118.60
151	Ck	39	DA	N1-C6-N6	11.79	125.67	118.60
1	AA	5511	DA	N1-C6-N6	11.79	125.67	118.60
151	Ck	36	DA	N1-C6-N6	11.79	125.67	118.60
155	Cs	29	DA	N1-C6-N6	11.79	125.67	118.60
1	AA	355	DA	N1-C6-N6	11.79	125.67	118.60
1	AA	653	DA	N1-C6-N6	11.79	125.67	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	932	DA	N1-C6-N6	11.79	125.67	118.60
1	AA	1009	DA	N1-C6-N6	11.79	125.67	118.60
39	Af	31	DA	P-O3'-C3'	11.79	133.84	119.70
64	B8	6	DA	O4'-C4'-C3'	-11.79	98.93	106.00
84	BT	8	DA	N1-C6-N6	11.79	125.67	118.60
85	BU	15	DA	N1-C6-N6	11.79	125.67	118.60
1	AA	392	DA	N1-C6-N6	11.79	125.67	118.60
1	AA	1008	DA	N1-C6-N6	11.79	125.67	118.60
1	AA	2100	DA	N1-C6-N6	11.79	125.67	118.60
1	AA	5401	DA	N1-C6-N6	11.79	125.67	118.60
1	AA	6141	DA	N1-C6-N6	11.79	125.67	118.60
20	AK	44	DA	N1-C6-N6	11.79	125.67	118.60
40	Ag	41	DA	N1-C6-N6	11.79	125.67	118.60
134	CQ	1	DA	N1-C6-N6	11.79	125.67	118.60
50	Au	47	DA	N1-C6-N6	11.78	125.67	118.60
73	BI	37	DA	N1-C6-N6	11.78	125.67	118.60
107	Bq	24	DA	N1-C6-N6	11.78	125.67	118.60
121	CD	42	DA	N1-C6-N6	11.79	125.67	118.60
125	CH	31	DA	N1-C6-N6	11.79	125.67	118.60
135	CR	40	DA	N1-C6-N6	11.79	125.67	118.60
127	CJ	30	DA	N1-C6-N6	11.78	125.67	118.60
136	CS	43	DA	N1-C6-N6	11.79	125.67	118.60
154	Cr	12	DA	N1-C6-N6	11.78	125.67	118.60
1	AA	2378	DA	N1-C6-N6	11.78	125.67	118.60
1	AA	4777	DA	N1-C6-N6	11.78	125.67	118.60
1	AA	3573	DA	N1-C6-N6	11.78	125.67	118.60
1	AA	4803	DA	N1-C6-N6	11.78	125.67	118.60
23	AN	7	DA	N1-C6-N6	11.78	125.67	118.60
62	B6	21	DA	N1-C6-N6	11.78	125.67	118.60
73	BI	6	DA	N1-C6-N6	11.78	125.67	118.60
74	BJ	33	DA	N1-C6-N6	11.78	125.67	118.60
115	C5	54	DA	N1-C6-N6	11.78	125.67	118.60
147	Ce	24	DA	N1-C6-N6	11.78	125.67	118.60
153	Cq	23	DA	N1-C6-N6	11.78	125.67	118.60
1	AA	3198	DA	N1-C6-N6	11.78	125.67	118.60
1	AA	4929	DA	N1-C6-N6	11.78	125.67	118.60
1	AA	5028	DA	N1-C6-N6	11.78	125.67	118.60
40	Ag	48	DA	N1-C6-N6	11.78	125.67	118.60
1	AA	5722	DA	N1-C6-N6	11.78	125.67	118.60
1	AA	7058	DA	N1-C6-N6	11.78	125.67	118.60
12	AC	44	DA	N1-C6-N6	11.78	125.67	118.60
19	AJ	17	DA	N1-C6-N6	11.78	125.67	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
36	Ab	22	DA	N1-C6-N6	11.78	125.67	118.60
83	BS	44	DA	N1-C6-N6	11.78	125.67	118.60
123	CF	40	DA	N1-C6-N6	11.78	125.67	118.60
1	AA	451	DA	N1-C6-N6	11.78	125.67	118.60
1	AA	4165	DA	N1-C6-N6	11.78	125.67	118.60
1	AA	4481	DA	N1-C6-N6	11.78	125.67	118.60
22	AM	30	DA	N1-C6-N6	11.78	125.67	118.60
74	BJ	38	DA	N1-C6-N6	11.78	125.67	118.60
77	BM	16	DA	N1-C6-N6	11.78	125.67	118.60
82	BR	16	DA	N1-C6-N6	11.78	125.67	118.60
1	AA	857	DA	N1-C6-N6	11.77	125.66	118.60
1	AA	2524	DA	N1-C6-N6	11.77	125.66	118.60
1	AA	3003	DA	N1-C6-N6	11.77	125.66	118.60
1	AA	4251	DA	N1-C6-N6	11.77	125.66	118.60
1	AA	6836	DA	N1-C6-N6	11.77	125.67	118.60
20	AK	46	DA	N1-C6-N6	11.77	125.66	118.60
39	Af	19	DA	N1-C6-N6	11.77	125.66	118.60
52	Aw	46	DA	N1-C6-N6	11.77	125.66	118.60
1	AA	6526	DA	N1-C6-N6	11.77	125.66	118.60
89	BY	22	DA	N1-C6-N6	11.77	125.66	118.60
127	CJ	56	DA	N1-C6-N6	11.77	125.66	118.60
131	CN	4	DA	N1-C6-N6	11.77	125.66	118.60
135	CR	14	DA	N1-C6-N6	11.77	125.66	118.60
143	CZ	32	DA	N1-C6-N6	11.77	125.66	118.60
1	AA	3999	DA	N1-C6-N6	11.77	125.66	118.60
1	AA	4130	DA	N1-C6-N6	11.77	125.66	118.60
1	AA	4901	DA	N1-C6-N6	11.77	125.66	118.60
25	AP	19	DA	N1-C6-N6	11.77	125.66	118.60
110	C0	37	DA	N1-C6-N6	11.77	125.66	118.60
114	C4	66	DA	N1-C6-N6	11.77	125.66	118.60
146	Cd	37	DA	N1-C6-N6	11.77	125.66	118.60
149	Cg	46	DA	N1-C6-N6	11.77	125.66	118.60
1	AA	54	DA	N1-C6-N6	11.77	125.66	118.60
1	AA	1403	DA	N1-C6-N6	11.77	125.66	118.60
75	BK	13	DA	N1-C6-N6	11.77	125.66	118.60
123	CF	23	DA	N1-C6-N6	11.77	125.66	118.60
145	Cc	21	DA	N1-C6-N6	11.77	125.66	118.60
149	Cg	28	DA	N1-C6-N6	11.77	125.66	118.60
67	BC	25	DA	N1-C6-N6	11.77	125.66	118.60
143	CZ	44	DA	N1-C6-N6	11.77	125.66	118.60
1	AA	3247	DA	N1-C6-N6	11.76	125.66	118.60
1	AA	3668	DA	N1-C6-N6	11.76	125.66	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
147	Ce	19	DA	N1-C6-N6	11.76	125.66	118.60
151	Ck	6	DA	N1-C6-N6	11.76	125.66	118.60
1	AA	4107	DG	O4'-C4'-C3'	-11.76	98.94	106.00
1	AA	5544	DA	N1-C6-N6	11.76	125.66	118.60
1	AA	5859	DA	N1-C6-N6	11.76	125.66	118.60
12	AC	11	DA	N1-C6-N6	11.76	125.66	118.60
51	Av	19	DA	N1-C6-N6	11.76	125.66	118.60
62	B6	11	DA	N1-C6-N6	11.76	125.66	118.60
75	BK	22	DA	N1-C6-N6	11.76	125.66	118.60
86	BV	25	DA	N1-C6-N6	11.76	125.66	118.60
1	AA	127	DA	N1-C6-N6	11.76	125.66	118.60
1	AA	3606	DA	N1-C6-N6	11.76	125.66	118.60
1	AA	5529	DA	N1-C6-N6	11.76	125.66	118.60
1	AA	6372	DA	N1-C6-N6	11.76	125.66	118.60
1	AA	6775	DA	N1-C6-N6	11.76	125.66	118.60
1	AA	7121	DA	N1-C6-N6	11.76	125.66	118.60
39	Af	21	DA	N1-C6-N6	11.76	125.66	118.60
45	Al	48	DA	N1-C6-N6	11.76	125.66	118.60
69	BE	65	DA	N1-C6-N6	11.76	125.66	118.60
100	Bj	6	DA	N1-C6-N6	11.76	125.66	118.60
105	Bo	38	DA	N1-C6-N6	11.76	125.66	118.60
1	AA	1402	DA	N1-C6-N6	11.76	125.66	118.60
1	AA	896	DA	N1-C6-N6	11.76	125.65	118.60
1	AA	6331	DA	N1-C6-N6	11.76	125.65	118.60
1	AA	3114	DA	N1-C6-N6	11.76	125.65	118.60
1	AA	3764	DA	N1-C6-N6	11.76	125.65	118.60
1	AA	5649	DA	N1-C6-N6	11.76	125.65	118.60
3	A1	16	DA	N1-C6-N6	11.76	125.65	118.60
6	A4	10	DA	N1-C6-N6	11.76	125.65	118.60
11	AB	27	DA	N1-C6-N6	11.76	125.65	118.60
41	Ah	38	DA	N1-C6-N6	11.76	125.65	118.60
67	BC	9	DA	N1-C6-N6	11.76	125.65	118.60
125	CH	15	DA	N1-C6-N6	11.76	125.66	118.60
155	Cs	44	DA	N1-C6-N6	11.76	125.66	118.60
44	Ak	46	DA	N1-C6-N6	11.76	125.65	118.60
116	C6	48	DA	N1-C6-N6	11.76	125.65	118.60
160	Cx	42	DA	N1-C6-N6	11.76	125.65	118.60
153	Cq	5	DA	N1-C6-N6	11.76	125.65	118.60
154	Cr	13	DA	N1-C6-N6	11.76	125.65	118.60
154	Cr	45	DA	N1-C6-N6	11.76	125.65	118.60
1	AA	4800	DA	N1-C6-N6	11.75	125.65	118.60
1	AA	672	DA	N1-C6-N6	11.75	125.65	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5350	DA	N1-C6-N6	11.75	125.65	118.60
1	AA	7152	DA	N1-C6-N6	11.75	125.65	118.60
28	AS	59	DA	N1-C6-N6	11.75	125.65	118.60
118	C8	12	DA	N1-C6-N6	11.75	125.65	118.60
19	AJ	18	DA	N1-C6-N6	11.75	125.65	118.60
96	Bf	31	DA	N1-C6-N6	11.75	125.65	118.60
101	Bk	6	DA	N1-C6-N6	11.75	125.65	118.60
135	CR	36	DA	N1-C6-N6	11.75	125.65	118.60
159	Cw	28	DA	N1-C6-N6	11.75	125.65	118.60
1	AA	49	DA	N1-C6-N6	11.75	125.65	118.60
1	AA	1944	DA	N1-C6-N6	11.75	125.65	118.60
1	AA	1990	DA	N1-C6-N6	11.75	125.65	118.60
1	AA	2027	DA	N1-C6-N6	11.75	125.65	118.60
1	AA	3564	DA	N1-C6-N6	11.75	125.65	118.60
27	AR	43	DA	N1-C6-N6	11.75	125.65	118.60
69	BE	66	DA	N1-C6-N6	11.75	125.65	118.60
111	C1	5	DA	N1-C6-N6	11.75	125.65	118.60
1	AA	6335	DA	N1-C6-N6	11.75	125.65	118.60
48	Ao	4	DA	N1-C6-N6	11.75	125.65	118.60
1	AA	388	DA	N1-C6-N6	11.75	125.65	118.60
1	AA	787	DT	O4'-C4'-C3'	-11.75	98.95	106.00
1	AA	2593	DA	N1-C6-N6	11.75	125.65	118.60
1	AA	5158	DA	N1-C6-N6	11.75	125.65	118.60
1	AA	5411	DA	N1-C6-N6	11.75	125.65	118.60
47	An	36	DA	N1-C6-N6	11.75	125.65	118.60
81	BQ	5	DA	N1-C6-N6	11.75	125.65	118.60
158	Cv	34	DA	N1-C6-N6	11.75	125.65	118.60
1	AA	6021	DA	N1-C6-N6	11.75	125.65	118.60
113	C3	36	DA	N1-C6-N6	11.75	125.65	118.60
120	CC	41	DA	N1-C6-N6	11.75	125.65	118.60
1	AA	4550	DA	N1-C6-N6	11.74	125.65	118.60
82	BR	43	DA	N1-C6-N6	11.74	125.65	118.60
130	CM	34	DA	N1-C6-N6	11.74	125.65	118.60
161	Cy	30	DA	N1-C6-N6	11.74	125.65	118.60
1	AA	1708	DA	N1-C6-N6	11.74	125.64	118.60
1	AA	2377	DA	N1-C6-N6	11.74	125.65	118.60
1	AA	6667	DA	N1-C6-N6	11.74	125.65	118.60
34	AY	11	DA	N1-C6-N6	11.74	125.65	118.60
46	Am	21	DA	N1-C6-N6	11.74	125.64	118.60
1	AA	1574	DA	N1-C6-N6	11.74	125.64	118.60
57	B1	8	DA	N1-C6-N6	11.74	125.64	118.60
1	AA	3346	DA	N1-C6-N6	11.74	125.64	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3988	DA	N1-C6-N6	11.74	125.64	118.60
1	AA	5566	DA	N1-C6-N6	11.74	125.64	118.60
9	A7	18	DA	N1-C6-N6	11.74	125.64	118.60
64	B8	22	DA	N1-C6-N6	11.74	125.64	118.60
113	C3	23	DA	N1-C6-N6	11.74	125.64	118.60
1	AA	6694	DA	N1-C6-N6	11.74	125.64	118.60
43	Aj	38	DA	N1-C6-N6	11.74	125.64	118.60
59	B3	44	DA	N1-C6-N6	11.74	125.64	118.60
106	Bp	24	DA	N1-C6-N6	11.74	125.64	118.60
1	AA	916	DA	N1-C6-N6	11.74	125.64	118.60
1	AA	1307	DA	O4'-C4'-C3'	-11.74	98.96	106.00
1	AA	1762	DA	N1-C6-N6	11.74	125.64	118.60
1	AA	4177	DA	N1-C6-N6	11.74	125.64	118.60
28	AS	8	DA	N1-C6-N6	11.74	125.64	118.60
1	AA	1804	DA	N1-C6-N6	11.74	125.64	118.60
1	AA	6139	DA	N1-C6-N6	11.74	125.64	118.60
1	AA	6715	DA	N1-C6-N6	11.74	125.64	118.60
35	AZ	33	DA	N1-C6-N6	11.74	125.64	118.60
53	Ax	47	DA	N1-C6-N6	11.74	125.64	118.60
68	BD	6	DA	N1-C6-N6	11.74	125.64	118.60
43	Aj	15	DA	N1-C6-N6	11.74	125.64	118.60
73	BI	16	DA	N1-C6-N6	11.74	125.64	118.60
146	Cd	7	DA	N1-C6-N6	11.74	125.64	118.60
149	Cg	10	DA	N1-C6-N6	11.74	125.64	118.60
1	AA	101	DC	O4'-C4'-C3'	-11.73	98.96	106.00
1	AA	1121	DA	N1-C6-N6	11.73	125.64	118.60
1	AA	1421	DA	N1-C6-N6	11.73	125.64	118.60
1	AA	6616	DA	N1-C6-N6	11.73	125.64	118.60
1	AA	4023	DA	N1-C6-N6	11.73	125.64	118.60
11	AB	9	DA	N1-C6-N6	11.73	125.64	118.60
28	AS	16	DA	N1-C6-N6	11.73	125.64	118.60
47	An	44	DA	N1-C6-N6	11.73	125.64	118.60
87	BW	53	DA	N1-C6-N6	11.73	125.64	118.60
1	AA	1184	DA	N1-C6-N6	11.73	125.64	118.60
1	AA	1554	DA	N1-C6-N6	11.73	125.64	118.60
1	AA	702	DA	N1-C6-N6	11.73	125.64	118.60
1	AA	2225	DA	N1-C6-N6	11.73	125.64	118.60
1	AA	4122	DA	N1-C6-N6	11.73	125.64	118.60
1	AA	5652	DA	N1-C6-N6	11.73	125.64	118.60
22	AM	4	DA	N1-C6-N6	11.73	125.64	118.60
74	BJ	49	DA	N1-C6-N6	11.73	125.64	118.60
106	Bp	2	DA	N1-C6-N6	11.73	125.64	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
110	C0	4	DA	N1-C6-N6	11.73	125.64	118.60
1	AA	223	DA	N1-C6-N6	11.73	125.64	118.60
1	AA	6827	DA	N1-C6-N6	11.73	125.64	118.60
57	B1	41	DA	N1-C6-N6	11.73	125.64	118.60
86	BV	37	DA	N1-C6-N6	11.73	125.64	118.60
1	AA	1673	DA	N1-C6-N6	11.73	125.64	118.60
1	AA	4735	DA	N1-C6-N6	11.73	125.64	118.60
1	AA	5702	DA	N1-C6-N6	11.73	125.64	118.60
18	AI	17	DA	N1-C6-N6	11.73	125.64	118.60
38	Ad	26	DA	N1-C6-N6	11.73	125.64	118.60
53	Ax	37	DA	N1-C6-N6	11.73	125.64	118.60
60	B4	12	DA	N1-C6-N6	11.73	125.64	118.60
96	Bf	32	DA	N1-C6-N6	11.73	125.64	118.60
1	AA	906	DA	N1-C6-N6	11.72	125.64	118.60
1	AA	1805	DA	N1-C6-N6	11.72	125.64	118.60
1	AA	4770	DA	N1-C6-N6	11.72	125.64	118.60
1	AA	4851	DA	N1-C6-N6	11.72	125.63	118.60
1	AA	5572	DA	N1-C6-N6	11.72	125.63	118.60
26	AQ	10	DA	N1-C6-N6	11.72	125.64	118.60
32	AW	13	DA	N1-C6-N6	11.72	125.64	118.60
21	AL	6	DA	N1-C6-N6	11.72	125.63	118.60
111	C1	12	DA	N1-C6-N6	11.72	125.64	118.60
1	AA	822	DA	N1-C6-N6	11.72	125.63	118.60
1	AA	6249	DA	N1-C6-N6	11.72	125.63	118.60
1	AA	2176	DA	N1-C6-N6	11.72	125.63	118.60
1	AA	4805	DA	N1-C6-N6	11.72	125.63	118.60
1	AA	6280	DA	N1-C6-N6	11.72	125.63	118.60
83	BS	27	DA	N1-C6-N6	11.72	125.63	118.60
91	Ba	12	DA	N1-C6-N6	11.72	125.63	118.60
97	Bg	13	DA	N1-C6-N6	11.72	125.63	118.60
99	Bi	18	DA	N1-C6-N6	11.72	125.63	118.60
112	C2	3	DA	N1-C6-N6	11.72	125.63	118.60
137	CT	45	DA	N1-C6-N6	11.72	125.63	118.60
149	Cg	30	DA	N1-C6-N6	11.72	125.63	118.60
151	Ck	19	DA	N1-C6-N6	11.72	125.63	118.60
1	AA	6356	DA	N1-C6-N6	11.72	125.63	118.60
62	B6	42	DA	N1-C6-N6	11.72	125.63	118.60
1	AA	2781	DA	N1-C6-N6	11.72	125.63	118.60
1	AA	3850	DA	N1-C6-N6	11.72	125.63	118.60
37	Ac	14	DA	N1-C6-N6	11.72	125.63	118.60
1	AA	5267	DA	N1-C6-N6	11.72	125.63	118.60
12	AC	32	DA	N1-C6-N6	11.72	125.63	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
125	CH	26	DA	N1-C6-N6	11.72	125.63	118.60
1	AA	1847	DA	N1-C6-N6	11.72	125.63	118.60
1	AA	4701	DA	N1-C6-N6	11.71	125.63	118.60
1	AA	5583	DA	N1-C6-N6	11.71	125.63	118.60
1	AA	6577	DA	N1-C6-N6	11.72	125.63	118.60
42	Ai	7	DA	N1-C6-N6	11.71	125.63	118.60
82	BR	39	DA	N1-C6-N6	11.72	125.63	118.60
131	CN	7	DA	N1-C6-N6	11.71	125.63	118.60
1	AA	141	DA	N1-C6-N6	11.71	125.63	118.60
1	AA	1701	DA	N1-C6-N6	11.71	125.63	118.60
1	AA	2837	DA	N1-C6-N6	11.71	125.63	118.60
1	AA	4164	DA	N1-C6-N6	11.71	125.63	118.60
1	AA	4731	DG	P-O3'-C3'	11.71	133.76	119.70
58	B2	27	DA	N1-C6-N6	11.71	125.63	118.60
92	Bb	19	DA	N1-C6-N6	11.71	125.63	118.60
92	Bb	43	DA	N1-C6-N6	11.71	125.63	118.60
109	Bs	40	DA	N1-C6-N6	11.71	125.63	118.60
161	Cy	23	DA	N1-C6-N6	11.71	125.63	118.60
1	AA	4678	DA	N1-C6-N6	11.71	125.63	118.60
1	AA	5872	DA	N1-C6-N6	11.71	125.63	118.60
55	Az	10	DA	N1-C6-N6	11.71	125.63	118.60
96	Bf	17	DA	N1-C6-N6	11.71	125.63	118.60
120	CC	30	DA	N1-C6-N6	11.71	125.63	118.60
131	CN	29	DA	N1-C6-N6	11.71	125.63	118.60
142	CY	11	DA	N1-C6-N6	11.71	125.63	118.60
145	Cc	48	DA	N1-C6-N6	11.71	125.63	118.60
107	Bq	40	DA	N1-C6-N6	11.71	125.63	118.60
157	Cu	33	DA	N1-C6-N6	11.71	125.63	118.60
161	Cy	13	DA	N1-C6-N6	11.71	125.63	118.60
1	AA	940	DA	N1-C6-N6	11.71	125.62	118.60
1	AA	1761	DA	N1-C6-N6	11.71	125.62	118.60
1	AA	6032	DA	N1-C6-N6	11.71	125.62	118.60
7	A5	22	DA	N1-C6-N6	11.71	125.62	118.60
68	BD	30	DA	N1-C6-N6	11.71	125.63	118.60
142	CY	7	DA	N1-C6-N6	11.71	125.62	118.60
1	AA	3431	DA	N1-C6-N6	11.71	125.62	118.60
36	Ab	44	DA	N1-C6-N6	11.71	125.62	118.60
92	Bb	18	DA	N1-C6-N6	11.71	125.62	118.60
96	Bf	41	DA	N1-C6-N6	11.71	125.62	118.60
115	C5	36	DA	N1-C6-N6	11.71	125.63	118.60
109	Bs	49	DA	N1-C6-N6	11.71	125.62	118.60
1	AA	5543	DA	N1-C6-N6	11.71	125.62	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6115	DA	N1-C6-N6	11.71	125.62	118.60
53	Ax	8	DA	N1-C6-N6	11.71	125.62	118.60
101	Bk	1	DA	N1-C6-N6	11.71	125.62	118.60
109	Bs	8	DA	N1-C6-N6	11.71	125.62	118.60
143	CZ	14	DA	N1-C6-N6	11.71	125.62	118.60
1	AA	2014	DA	N1-C6-N6	11.70	125.62	118.60
1	AA	2239	DA	N1-C6-N6	11.70	125.62	118.60
1	AA	3643	DA	N1-C6-N6	11.70	125.62	118.60
1	AA	6524	DA	N1-C6-N6	11.70	125.62	118.60
34	AY	4	DA	N1-C6-N6	11.70	125.62	118.60
103	Bm	43	DA	N1-C6-N6	11.70	125.62	118.60
107	Bq	1	DA	N1-C6-N6	11.71	125.62	118.60
152	Cp	26	DA	N1-C6-N6	11.71	125.62	118.60
156	Ct	28	DA	N1-C6-N6	11.71	125.62	118.60
1	AA	5171	DA	N1-C6-N6	11.70	125.62	118.60
1	AA	1211	DA	N1-C6-N6	11.70	125.62	118.60
1	AA	2898	DA	N1-C6-N6	11.70	125.62	118.60
1	AA	4750	DA	N1-C6-N6	11.70	125.62	118.60
1	AA	5126	DA	N1-C6-N6	11.70	125.62	118.60
1	AA	5184	DA	N1-C6-N6	11.70	125.62	118.60
1	AA	5643	DA	N1-C6-N6	11.70	125.62	118.60
1	AA	5815	DA	N1-C6-N6	11.70	125.62	118.60
66	BB	29	DA	N1-C6-N6	11.70	125.62	118.60
1	AA	6602	DA	N1-C6-N6	11.70	125.62	118.60
1	AA	7143	DA	N1-C6-N6	11.70	125.62	118.60
83	BS	10	DA	N1-C6-N6	11.70	125.62	118.60
103	Bm	42	DA	N1-C6-N6	11.70	125.62	118.60
110	C0	29	DA	N1-C6-N6	11.70	125.62	118.60
156	Ct	24	DA	N1-C6-N6	11.70	125.62	118.60
1	AA	1768	DA	N1-C6-N6	11.70	125.62	118.60
1	AA	3096	DA	N1-C6-N6	11.70	125.62	118.60
1	AA	5666	DA	N1-C6-N6	11.70	125.62	118.60
54	Ay	2	DA	N1-C6-N6	11.70	125.62	118.60
1	AA	3181	DA	N1-C6-N6	11.70	125.62	118.60
1	AA	3696	DA	N1-C6-N6	11.70	125.62	118.60
1	AA	4138	DA	N1-C6-N6	11.70	125.62	118.60
42	Ai	22	DA	N1-C6-N6	11.70	125.62	118.60
64	B8	6	DA	N1-C6-N6	11.70	125.62	118.60
72	BH	26	DA	N1-C6-N6	11.70	125.62	118.60
128	CK	46	DA	O4'-C4'-C3'	-11.70	98.98	106.00
142	CY	16	DA	N1-C6-N6	11.70	125.62	118.60
150	Ch	10	DA	N1-C6-N6	11.70	125.62	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	242	DA	N1-C6-N6	11.70	125.62	118.60
1	AA	491	DA	N1-C6-N6	11.70	125.62	118.60
1	AA	962	DA	N1-C6-N6	11.70	125.62	118.60
1	AA	1622	DA	N1-C6-N6	11.70	125.62	118.60
1	AA	4157	DA	N1-C6-N6	11.70	125.62	118.60
111	C1	39	DA	N1-C6-N6	11.70	125.62	118.60
147	Ce	22	DA	N1-C6-N6	11.70	125.62	118.60
1	AA	1718	DA	N1-C6-N6	11.69	125.62	118.60
1	AA	3635	DA	N1-C6-N6	11.69	125.62	118.60
1	AA	3967	DA	N1-C6-N6	11.69	125.62	118.60
1	AA	5728	DA	N1-C6-N6	11.70	125.62	118.60
1	AA	6192	DA	N1-C6-N6	11.69	125.62	118.60
57	B1	32	DA	N1-C6-N6	11.70	125.62	118.60
95	Be	2	DA	N1-C6-N6	11.70	125.62	118.60
37	Ac	13	DA	N1-C6-N6	11.69	125.62	118.60
1	AA	1257	DA	N1-C6-N6	11.69	125.61	118.60
1	AA	6967	DA	N1-C6-N6	11.69	125.61	118.60
38	Ad	8	DA	N1-C6-N6	11.69	125.61	118.60
64	B8	13	DA	N1-C6-N6	11.69	125.61	118.60
65	B9	1	DA	N1-C6-N6	11.69	125.61	118.60
112	C2	4	DA	N1-C6-N6	11.69	125.61	118.60
118	C8	15	DA	N1-C6-N6	11.69	125.61	118.60
132	CO	31	DA	N1-C6-N6	11.69	125.61	118.60
1	AA	987	DA	N1-C6-N6	11.69	125.61	118.60
1	AA	3740	DA	N1-C6-N6	11.69	125.61	118.60
1	AA	5248	DA	N1-C6-N6	11.69	125.61	118.60
1	AA	5249	DA	N1-C6-N6	11.69	125.61	118.60
1	AA	6962	DA	N1-C6-N6	11.69	125.61	118.60
1	AA	7013	DA	N1-C6-N6	11.69	125.61	118.60
18	AI	25	DA	N1-C6-N6	11.69	125.61	118.60
35	AZ	35	DA	N1-C6-N6	11.69	125.61	118.60
37	Ac	21	DA	N1-C6-N6	11.69	125.61	118.60
102	Bl	12	DA	N1-C6-N6	11.69	125.61	118.60
146	Cd	35	DA	N1-C6-N6	11.69	125.61	118.60
153	Cq	14	DA	N1-C6-N6	11.69	125.61	118.60
1	AA	4728	DA	N1-C6-N6	11.69	125.61	118.60
1	AA	2284	DA	N1-C6-N6	11.69	125.61	118.60
1	AA	5675	DA	N1-C6-N6	11.69	125.61	118.60
1	AA	6994	DA	N1-C6-N6	11.69	125.61	118.60
7	A5	41	DA	N1-C6-N6	11.69	125.61	118.60
86	BV	32	DA	N1-C6-N6	11.69	125.61	118.60
1	AA	418	DA	N1-C6-N6	11.68	125.61	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	556	DA	N1-C6-N6	11.68	125.61	118.60
1	AA	5684	DA	N1-C6-N6	11.68	125.61	118.60
1	AA	6556	DA	N1-C6-N6	11.68	125.61	118.60
85	BU	10	DA	N1-C6-N6	11.68	125.61	118.60
1	AA	1045	DA	N1-C6-N6	11.68	125.61	118.60
1	AA	5638	DA	N1-C6-N6	11.68	125.61	118.60
1	AA	6127	DA	N1-C6-N6	11.68	125.61	118.60
35	AZ	18	DA	N1-C6-N6	11.68	125.61	118.60
82	BR	19	DA	N1-C6-N6	11.68	125.61	118.60
37	Ac	38	DA	N1-C6-N6	11.68	125.61	118.60
55	Az	13	DA	N1-C6-N6	11.68	125.61	118.60
1	AA	1695	DA	N1-C6-N6	11.68	125.61	118.60
1	AA	2539	DA	N1-C6-N6	11.68	125.61	118.60
1	AA	3574	DA	N1-C6-N6	11.68	125.61	118.60
8	A6	21	DA	N1-C6-N6	11.68	125.61	118.60
115	C5	5	DA	N1-C6-N6	11.68	125.61	118.60
149	Cg	43	DA	N1-C6-N6	11.68	125.61	118.60
1	AA	4626	DA	N1-C6-N6	11.68	125.61	118.60
1	AA	5284	DG	P-O3'-C3'	11.68	133.71	119.70
1	AA	5498	DA	N1-C6-N6	11.68	125.61	118.60
1	AA	6890	DA	N1-C6-N6	11.68	125.61	118.60
6	A4	41	DA	N1-C6-N6	11.68	125.61	118.60
90	BZ	41	DA	N1-C6-N6	11.68	125.61	118.60
142	CY	28	DA	N1-C6-N6	11.68	125.61	118.60
157	Cu	2	DA	N1-C6-N6	11.68	125.61	118.60
1	AA	6914	DA	N1-C6-N6	11.68	125.61	118.60
17	AH	46	DA	N1-C6-N6	11.68	125.61	118.60
131	CN	13	DA	N1-C6-N6	11.68	125.61	118.60
1	AA	4832	DA	N1-C6-N6	11.68	125.61	118.60
1	AA	6140	DA	N1-C6-N6	11.68	125.61	118.60
1	AA	2719	DA	N1-C6-N6	11.68	125.61	118.60
8	A6	18	DA	N1-C6-N6	11.68	125.61	118.60
64	B8	25	DA	N1-C6-N6	11.68	125.61	118.60
139	CV	24	DA	N1-C6-N6	11.68	125.61	118.60
144	Cb	44	DA	N1-C6-N6	11.68	125.61	118.60
161	Cy	2	DA	N1-C6-N6	11.68	125.61	118.60
100	Bj	32	DA	N1-C6-N6	11.67	125.61	118.60
1	AA	1101	DA	N1-C6-N6	11.67	125.60	118.60
1	AA	2364	DA	N1-C6-N6	11.67	125.60	118.60
1	AA	2830	DA	N1-C6-N6	11.67	125.60	118.60
1	AA	6174	DA	N1-C6-N6	11.67	125.60	118.60
4	A2	12	DA	N1-C6-N6	11.67	125.60	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	A7	43	DA	N1-C6-N6	11.67	125.60	118.60
10	A8	33	DA	N1-C6-N6	11.67	125.61	118.60
20	AK	16	DA	N1-C6-N6	11.67	125.60	118.60
125	CH	2	DA	N1-C6-N6	11.67	125.61	118.60
29	AT	45	DA	N1-C6-N6	11.67	125.60	118.60
49	As	41	DA	N1-C6-N6	11.67	125.60	118.60
52	Aw	31	DA	N1-C6-N6	11.67	125.60	118.60
92	Bb	40	DA	N1-C6-N6	11.67	125.60	118.60
101	Bk	24	DA	N1-C6-N6	11.67	125.60	118.60
107	Bq	54	DA	N1-C6-N6	11.67	125.61	118.60
140	CW	19	DA	N1-C6-N6	11.67	125.60	118.60
1	AA	1674	DA	N1-C6-N6	11.67	125.60	118.60
1	AA	3651	DA	N1-C6-N6	11.67	125.60	118.60
1	AA	4342	DA	N1-C6-N6	11.67	125.60	118.60
1	AA	5447	DA	N1-C6-N6	11.67	125.60	118.60
1	AA	4539	DA	N1-C6-N6	11.67	125.60	118.60
1	AA	6999	DA	N1-C6-N6	11.67	125.60	118.60
1	AA	7081	DA	N1-C6-N6	11.67	125.60	118.60
72	BH	42	DA	N1-C6-N6	11.67	125.60	118.60
132	CO	5	DA	N1-C6-N6	11.67	125.60	118.60
95	Be	33	DA	N1-C6-N6	11.67	125.60	118.60
127	CJ	29	DA	N1-C6-N6	11.67	125.60	118.60
1	AA	222	DA	N1-C6-N6	11.67	125.60	118.60
1	AA	1736	DA	N1-C6-N6	11.67	125.60	118.60
1	AA	1764	DA	N1-C6-N6	11.67	125.60	118.60
1	AA	2136	DA	N1-C6-N6	11.67	125.60	118.60
1	AA	2291	DA	N1-C6-N6	11.67	125.60	118.60
1	AA	3175	DA	N1-C6-N6	11.67	125.60	118.60
1	AA	3176	DA	N1-C6-N6	11.67	125.60	118.60
19	AJ	42	DA	N1-C6-N6	11.67	125.60	118.60
20	AK	13	DA	N1-C6-N6	11.67	125.60	118.60
89	BY	40	DA	N1-C6-N6	11.67	125.60	118.60
1	AA	3466	DA	N1-C6-N6	11.67	125.60	118.60
1	AA	3665	DA	N1-C6-N6	11.67	125.60	118.60
1	AA	6501	DA	N1-C6-N6	11.67	125.60	118.60
13	AD	37	DA	N1-C6-N6	11.67	125.60	118.60
78	BN	25	DA	N1-C6-N6	11.67	125.60	118.60
85	BU	16	DA	N1-C6-N6	11.67	125.60	118.60
92	Bb	15	DA	N1-C6-N6	11.67	125.60	118.60
101	Bk	58	DA	N1-C6-N6	11.67	125.60	118.60
102	Bl	31	DA	N1-C6-N6	11.67	125.60	118.60
161	Cy	54	DA	N1-C6-N6	11.67	125.60	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5519	DA	N1-C6-N6	11.66	125.60	118.60
1	AA	6256	DA	N1-C6-N6	11.66	125.60	118.60
1	AA	171	DA	N1-C6-N6	11.66	125.60	118.60
1	AA	543	DA	N1-C6-N6	11.66	125.60	118.60
1	AA	658	DA	N1-C6-N6	11.66	125.60	118.60
1	AA	1011	DA	N1-C6-N6	11.66	125.60	118.60
1	AA	1213	DA	N1-C6-N6	11.66	125.60	118.60
1	AA	1860	DA	N1-C6-N6	11.66	125.60	118.60
1	AA	1970	DT	OP1-P-O3'	11.66	130.86	105.20
16	AG	37	DA	N1-C6-N6	11.66	125.60	118.60
1	AA	2006	DA	N1-C6-N6	11.66	125.60	118.60
79	BO	12	DA	N1-C6-N6	11.66	125.60	118.60
32	AW	16	DA	N1-C6-N6	11.66	125.60	118.60
53	Ax	16	DA	N1-C6-N6	11.66	125.60	118.60
54	Ay	28	DA	N1-C6-N6	11.66	125.60	118.60
67	BC	33	DA	N1-C6-N6	11.66	125.60	118.60
81	BQ	7	DA	N1-C6-N6	11.66	125.60	118.60
121	CD	41	DA	N1-C6-N6	11.66	125.60	118.60
134	CQ	29	DA	N1-C6-N6	11.66	125.60	118.60
143	CZ	7	DA	N1-C6-N6	11.66	125.60	118.60
1	AA	1401	DA	N1-C6-N6	11.66	125.60	118.60
1	AA	2303	DA	N1-C6-N6	11.66	125.60	118.60
31	AV	18	DA	N1-C6-N6	11.66	125.60	118.60
1	AA	4708	DA	N1-C6-N6	11.66	125.59	118.60
44	Ak	1	DA	N1-C6-N6	11.66	125.60	118.60
92	Bb	44	DA	N1-C6-N6	11.66	125.60	118.60
1	AA	255	DA	N1-C6-N6	11.66	125.59	118.60
1	AA	411	DA	N1-C6-N6	11.66	125.59	118.60
1	AA	5536	DA	N1-C6-N6	11.66	125.59	118.60
1	AA	6728	DA	N1-C6-N6	11.66	125.59	118.60
37	Ac	11	DA	N1-C6-N6	11.66	125.59	118.60
84	BT	22	DA	N1-C6-N6	11.66	125.59	118.60
1	AA	4548	DA	N1-C6-N6	11.65	125.59	118.60
1	AA	5433	DA	N1-C6-N6	11.65	125.59	118.60
56	B0	41	DA	N1-C6-N6	11.65	125.59	118.60
1	AA	1537	DA	N1-C6-N6	11.65	125.59	118.60
1	AA	2654	DA	N1-C6-N6	11.65	125.59	118.60
1	AA	3457	DA	N1-C6-N6	11.65	125.59	118.60
1	AA	4824	DA	N1-C6-N6	11.65	125.59	118.60
1	AA	6169	DA	N1-C6-N6	11.65	125.59	118.60
1	AA	6880	DA	N1-C6-N6	11.65	125.59	118.60
9	A7	21	DA	N1-C6-N6	11.65	125.59	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
24	AO	17	DA	N1-C6-N6	11.65	125.59	118.60
62	B6	20	DA	N1-C6-N6	11.65	125.59	118.60
110	C0	38	DA	N1-C6-N6	11.65	125.59	118.60
118	C8	4	DA	N1-C6-N6	11.65	125.59	118.60
111	C1	6	DA	N1-C6-N6	11.65	125.59	118.60
118	C8	42	DG	O4'-C4'-C3'	-11.65	99.01	106.00
142	CY	38	DA	N1-C6-N6	11.65	125.59	118.60
1	AA	3685	DA	N1-C6-N6	11.65	125.59	118.60
16	AG	19	DA	N1-C6-N6	11.65	125.59	118.60
1	AA	4880	DA	N1-C6-N6	11.65	125.59	118.60
1	AA	4993	DA	N1-C6-N6	11.65	125.59	118.60
6	A4	5	DA	N1-C6-N6	11.65	125.59	118.60
41	Ah	13	DA	N1-C6-N6	11.65	125.59	118.60
106	Bp	3	DA	N1-C6-N6	11.65	125.59	118.60
117	C7	16	DA	N1-C6-N6	11.65	125.59	118.60
148	Cf	20	DA	N1-C6-N6	11.65	125.59	118.60
1	AA	1667	DG	O4'-C4'-C3'	-11.65	99.01	106.00
1	AA	1784	DA	N1-C6-N6	11.65	125.59	118.60
1	AA	6216	DA	N1-C6-N6	11.65	125.59	118.60
17	AH	12	DA	N1-C6-N6	11.65	125.59	118.60
37	Ac	1	DA	N1-C6-N6	11.65	125.59	118.60
69	BE	34	DA	N1-C6-N6	11.65	125.59	118.60
87	BW	28	DA	N1-C6-N6	11.65	125.59	118.60
122	CE	27	DA	N1-C6-N6	11.65	125.59	118.60
153	Cq	40	DA	N1-C6-N6	11.65	125.59	118.60
1	AA	2218	DA	N1-C6-N6	11.65	125.59	118.60
1	AA	3994	DA	N1-C6-N6	11.65	125.59	118.60
1	AA	5942	DA	N1-C6-N6	11.65	125.59	118.60
1	AA	6041	DA	N1-C6-N6	11.65	125.59	118.60
17	AH	9	DA	N1-C6-N6	11.65	125.59	118.60
28	AS	11	DA	N1-C6-N6	11.65	125.59	118.60
118	C8	3	DA	N1-C6-N6	11.65	125.59	118.60
125	CH	34	DA	N1-C6-N6	11.65	125.59	118.60
1	AA	359	DA	N1-C6-N6	11.64	125.59	118.60
1	AA	2449	DA	N1-C6-N6	11.64	125.59	118.60
1	AA	2788	DA	N1-C6-N6	11.64	125.59	118.60
1	AA	6488	DA	N1-C6-N6	11.64	125.59	118.60
13	AD	3	DA	N1-C6-N6	11.64	125.59	118.60
49	As	35	DA	N1-C6-N6	11.64	125.59	118.60
62	B6	34	DA	N1-C6-N6	11.64	125.59	118.60
80	BP	6	DA	N1-C6-N6	11.64	125.59	118.60
160	Cx	10	DA	N1-C6-N6	11.64	125.59	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	373	DA	N1-C6-N6	11.64	125.58	118.60
1	AA	4890	DA	N1-C6-N6	11.64	125.58	118.60
27	AR	28	DA	N1-C6-N6	11.64	125.58	118.60
1	AA	573	DA	N1-C6-N6	11.64	125.58	118.60
1	AA	1242	DA	N1-C6-N6	11.64	125.58	118.60
1	AA	3350	DG	P-O3'-C3'	11.64	133.67	119.70
1	AA	3928	DA	N1-C6-N6	11.64	125.58	118.60
77	BM	17	DA	N1-C6-N6	11.64	125.58	118.60
78	BN	26	DA	N1-C6-N6	11.64	125.58	118.60
92	Bb	4	DA	N1-C6-N6	11.64	125.58	118.60
1	AA	5653	DA	N1-C6-N6	11.64	125.58	118.60
28	AS	12	DA	N1-C6-N6	11.64	125.58	118.60
52	Aw	40	DA	N1-C6-N6	11.64	125.58	118.60
59	B3	13	DA	N1-C6-N6	11.64	125.58	118.60
90	BZ	61	DA	N1-C6-N6	11.64	125.58	118.60
103	Bm	48	DA	N1-C6-N6	11.64	125.58	118.60
119	CB	48	DA	N1-C6-N6	11.64	125.58	118.60
1	AA	622	DA	N1-C6-N6	11.64	125.58	118.60
1	AA	2906	DA	N1-C6-N6	11.64	125.58	118.60
61	B5	13	DA	N1-C6-N6	11.64	125.58	118.60
95	Be	45	DA	N1-C6-N6	11.64	125.58	118.60
1	AA	3379	DA	N1-C6-N6	11.64	125.58	118.60
1	AA	4734	DA	N1-C6-N6	11.64	125.58	118.60
1	AA	5231	DA	N1-C6-N6	11.64	125.58	118.60
1	AA	5392	DA	N1-C6-N6	11.64	125.58	118.60
1	AA	5416	DA	N1-C6-N6	11.64	125.58	118.60
1	AA	6538	DA	N1-C6-N6	11.64	125.58	118.60
13	AD	2	DA	N1-C6-N6	11.64	125.58	118.60
105	Bo	13	DA	N1-C6-N6	11.64	125.58	118.60
113	C3	16	DA	N1-C6-N6	11.64	125.58	118.60
1	AA	574	DA	N1-C6-N6	11.64	125.58	118.60
1	AA	1995	DA	N1-C6-N6	11.64	125.58	118.60
1	AA	1249	DA	N1-C6-N6	11.63	125.58	118.60
1	AA	3561	DA	N1-C6-N6	11.63	125.58	118.60
1	AA	4707	DA	N1-C6-N6	11.63	125.58	118.60
64	B8	9	DA	N1-C6-N6	11.63	125.58	118.60
88	BX	24	DA	N1-C6-N6	11.63	125.58	118.60
109	Bs	33	DA	N1-C6-N6	11.63	125.58	118.60
147	Ce	40	DA	N1-C6-N6	11.63	125.58	118.60
1	AA	67	DA	N1-C6-N6	11.63	125.58	118.60
1	AA	1534	DA	N1-C6-N6	11.63	125.58	118.60
1	AA	2065	DA	N1-C6-N6	11.63	125.58	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3945	DA	N1-C6-N6	11.63	125.58	118.60
1	AA	4146	DA	N1-C6-N6	11.63	125.58	118.60
67	BC	35	DA	N1-C6-N6	11.63	125.58	118.60
1	AA	2086	DA	N1-C6-N6	11.63	125.58	118.60
1	AA	4670	DA	N1-C6-N6	11.63	125.58	118.60
1	AA	4727	DA	N1-C6-N6	11.63	125.58	118.60
1	AA	4831	DA	N1-C6-N6	11.63	125.58	118.60
1	AA	5644	DA	N1-C6-N6	11.63	125.58	118.60
1	AA	5698	DA	N1-C6-N6	11.63	125.58	118.60
2	A0	24	DA	N1-C6-N6	11.63	125.58	118.60
26	AQ	22	DA	N1-C6-N6	11.63	125.58	118.60
46	Am	11	DA	N1-C6-N6	11.63	125.58	118.60
9	A7	29	DA	N1-C6-N6	11.63	125.58	118.60
68	BD	19	DA	N1-C6-N6	11.63	125.58	118.60
72	BH	23	DA	N1-C6-N6	11.63	125.58	118.60
106	Bp	23	DA	N1-C6-N6	11.63	125.58	118.60
114	C4	25	DA	N1-C6-N6	11.63	125.58	118.60
115	C5	2	DA	N1-C6-N6	11.63	125.58	118.60
117	C7	28	DA	N1-C6-N6	11.63	125.58	118.60
145	Cc	45	DA	N1-C6-N6	11.63	125.58	118.60
146	Cd	29	DA	N1-C6-N6	11.63	125.58	118.60
158	Cv	3	DA	N1-C6-N6	11.63	125.58	118.60
13	AD	9	DA	N1-C6-N6	11.63	125.58	118.60
22	AM	2	DA	N1-C6-N6	11.63	125.58	118.60
80	BP	42	DA	N1-C6-N6	11.63	125.58	118.60
87	BW	34	DA	N1-C6-N6	11.63	125.58	118.60
95	Be	15	DA	N1-C6-N6	11.63	125.58	118.60
105	Bo	18	DA	N1-C6-N6	11.63	125.58	118.60
157	Cu	51	DA	N1-C6-N6	11.63	125.58	118.60
1	AA	2010	DA	N1-C6-N6	11.63	125.58	118.60
1	AA	3201	DA	N1-C6-N6	11.63	125.58	118.60
1	AA	3939	DA	N1-C6-N6	11.63	125.58	118.60
1	AA	6540	DA	N1-C6-N6	11.63	125.58	118.60
4	A2	31	DA	N1-C6-N6	11.63	125.58	118.60
57	B1	33	DA	N1-C6-N6	11.63	125.58	118.60
65	B9	6	DA	N1-C6-N6	11.63	125.58	118.60
79	BO	23	DA	N1-C6-N6	11.63	125.58	118.60
159	Cw	21	DA	N1-C6-N6	11.63	125.58	118.60
1	AA	383	DA	N1-C6-N6	11.63	125.58	118.60
1	AA	4346	DA	N1-C6-N6	11.62	125.58	118.60
1	AA	6161	DA	N1-C6-N6	11.62	125.58	118.60
71	BG	30	DA	N1-C6-N6	11.63	125.58	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	AL	4	DA	N1-C6-N6	11.62	125.57	118.60
35	AZ	19	DA	N1-C6-N6	11.62	125.58	118.60
53	Ax	11	DA	N1-C6-N6	11.63	125.58	118.60
65	B9	5	DA	N1-C6-N6	11.62	125.58	118.60
115	C5	14	DA	N1-C6-N6	11.62	125.57	118.60
138	CU	28	DA	N1-C6-N6	11.62	125.58	118.60
153	Cq	1	DA	N1-C6-N6	11.62	125.58	118.60
1	AA	1791	DA	N1-C6-N6	11.62	125.57	118.60
1	AA	1264	DA	N1-C6-N6	11.62	125.57	118.60
1	AA	1913	DG	P-O5'-C5'	11.62	139.50	120.90
1	AA	3230	DT	O4'-C4'-C3'	-11.62	99.03	106.00
1	AA	3672	DA	N1-C6-N6	11.62	125.57	118.60
1	AA	4027	DA	N1-C6-N6	11.62	125.57	118.60
1	AA	5408	DA	N1-C6-N6	11.62	125.57	118.60
47	An	37	DA	N1-C6-N6	11.62	125.57	118.60
101	Bk	30	DA	N1-C6-N6	11.62	125.57	118.60
1	AA	6200	DA	N1-C6-N6	11.62	125.57	118.60
1	AA	7215	DA	N1-C6-N6	11.62	125.57	118.60
15	AF	16	DA	N1-C6-N6	11.62	125.57	118.60
15	AF	19	DA	N1-C6-N6	11.62	125.57	118.60
101	Bk	26	DA	N1-C6-N6	11.62	125.57	118.60
110	C0	11	DA	N1-C6-N6	11.62	125.57	118.60
139	CV	49	DA	N1-C6-N6	11.62	125.57	118.60
1	AA	4631	DA	N1-C6-N6	11.62	125.57	118.60
1	AA	5985	DA	N1-C6-N6	11.62	125.57	118.60
34	AY	1	DA	N1-C6-N6	11.62	125.57	118.60
127	CJ	6	DA	N1-C6-N6	11.62	125.57	118.60
1	AA	1943	DA	O4'-C4'-C3'	-11.62	99.03	106.00
16	AG	45	DA	N1-C6-N6	11.62	125.57	118.60
29	AT	12	DA	N1-C6-N6	11.62	125.57	118.60
54	Ay	12	DA	N1-C6-N6	11.62	125.57	118.60
111	C1	46	DA	N1-C6-N6	11.62	125.57	118.60
145	Cc	30	DA	N1-C6-N6	11.62	125.57	118.60
157	Cu	53	DA	N1-C6-N6	11.62	125.57	118.60
154	Cr	3	DA	N1-C6-N6	11.62	125.57	118.60
43	Aj	3	DA	N1-C6-N6	11.62	125.57	118.60
117	C7	34	DA	N1-C6-N6	11.62	125.57	118.60
129	CL	27	DA	N1-C6-N6	11.62	125.57	118.60
1	AA	135	DA	N1-C6-N6	11.61	125.57	118.60
10	A8	38	DA	N1-C6-N6	11.61	125.57	118.60
1	AA	82	DA	N1-C6-N6	11.61	125.57	118.60
1	AA	738	DA	N1-C6-N6	11.61	125.57	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1170	DA	N1-C6-N6	11.61	125.57	118.60
1	AA	3026	DA	N1-C6-N6	11.61	125.57	118.60
142	CY	31	DA	N1-C6-N6	11.61	125.57	118.60
1	AA	2499	DA	N1-C6-N6	11.61	125.57	118.60
1	AA	2806	DA	N1-C6-N6	11.61	125.57	118.60
1	AA	3916	DA	N1-C6-N6	11.61	125.57	118.60
1	AA	4375	DA	N1-C6-N6	11.61	125.57	118.60
1	AA	4983	DA	N1-C6-N6	11.61	125.57	118.60
1	AA	7052	DA	N1-C6-N6	11.61	125.57	118.60
24	AO	23	DA	N1-C6-N6	11.61	125.57	118.60
68	BD	20	DA	N1-C6-N6	11.61	125.57	118.60
120	CC	25	DA	N1-C6-N6	11.61	125.57	118.60
1	AA	1707	DA	N1-C6-N6	11.61	125.56	118.60
1	AA	4457	DA	N1-C6-N6	11.61	125.57	118.60
65	B9	11	DA	N1-C6-N6	11.61	125.57	118.60
1	AA	5107	DA	N1-C6-N6	11.61	125.56	118.60
1	AA	5931	DA	N1-C6-N6	11.61	125.56	118.60
3	A1	23	DA	N1-C6-N6	11.61	125.57	118.60
11	AB	11	DA	N1-C6-N6	11.61	125.57	118.60
27	AR	42	DA	N1-C6-N6	11.61	125.57	118.60
51	Av	25	DA	N1-C6-N6	11.61	125.57	118.60
106	Bp	17	DA	N1-C6-N6	11.61	125.56	118.60
110	C0	18	DA	N1-C6-N6	11.61	125.56	118.60
127	CJ	3	DA	N1-C6-N6	11.61	125.57	118.60
142	CY	23	DA	N1-C6-N6	11.61	125.56	118.60
150	Ch	11	DA	N1-C6-N6	11.61	125.57	118.60
153	Cq	35	DA	N1-C6-N6	11.61	125.57	118.60
157	Cu	11	DA	N1-C6-N6	11.61	125.56	118.60
1	AA	4833	DA	N1-C6-N6	11.61	125.56	118.60
1	AA	6959	DA	N1-C6-N6	11.61	125.56	118.60
54	Ay	31	DA	N1-C6-N6	11.61	125.56	118.60
72	BH	14	DA	N1-C6-N6	11.61	125.56	118.60
94	Bd	16	DA	N1-C6-N6	11.61	125.56	118.60
1	AA	2071	DA	N1-C6-N6	11.60	125.56	118.60
1	AA	2098	DA	N1-C6-N6	11.60	125.56	118.60
3	A1	19	DA	N1-C6-N6	11.60	125.56	118.60
12	AC	3	DA	N1-C6-N6	11.60	125.56	118.60
115	C5	28	DA	N1-C6-N6	11.60	125.56	118.60
125	CH	20	DA	N1-C6-N6	11.60	125.56	118.60
1	AA	25	DA	N1-C6-N6	11.60	125.56	118.60
1	AA	456	DA	N1-C6-N6	11.60	125.56	118.60
1	AA	2152	DA	N1-C6-N6	11.60	125.56	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2257	DA	N1-C6-N6	11.60	125.56	118.60
1	AA	3559	DA	N1-C6-N6	11.60	125.56	118.60
1	AA	4077	DA	N1-C6-N6	11.60	125.56	118.60
1	AA	4321	DA	N1-C6-N6	11.60	125.56	118.60
1	AA	4790	DA	N1-C6-N6	11.60	125.56	118.60
1	AA	4888	DA	N1-C6-N6	11.60	125.56	118.60
1	AA	5257	DA	N1-C6-N6	11.60	125.56	118.60
1	AA	6924	DA	N1-C6-N6	11.60	125.56	118.60
1	AA	7231	DA	N1-C6-N6	11.60	125.56	118.60
10	A8	17	DA	N1-C6-N6	11.60	125.56	118.60
30	AU	48	DA	N1-C6-N6	11.60	125.56	118.60
42	Ai	20	DA	N1-C6-N6	11.60	125.56	118.60
49	As	1	DA	N1-C6-N6	11.60	125.56	118.60
72	BH	35	DA	N1-C6-N6	11.60	125.56	118.60
130	CM	52	DA	N1-C6-N6	11.60	125.56	118.60
132	CO	37	DA	N1-C6-N6	11.60	125.56	118.60
133	CP	22	DA	N1-C6-N6	11.60	125.56	118.60
150	Ch	41	DA	N1-C6-N6	11.60	125.56	118.60
1	AA	1435	DA	N1-C6-N6	11.60	125.56	118.60
1	AA	6842	DA	N1-C6-N6	11.60	125.56	118.60
1	AA	6916	DA	N1-C6-N6	11.60	125.56	118.60
1	AA	4883	DA	N1-C6-N6	11.60	125.56	118.60
1	AA	5924	DA	N1-C6-N6	11.60	125.56	118.60
1	AA	6122	DA	N1-C6-N6	11.60	125.56	118.60
11	AB	26	DA	N1-C6-N6	11.60	125.56	118.60
33	AX	9	DA	N1-C6-N6	11.60	125.56	118.60
36	Ab	12	DA	N1-C6-N6	11.60	125.56	118.60
47	An	45	DA	N1-C6-N6	11.60	125.56	118.60
83	BS	43	DA	N1-C6-N6	11.60	125.56	118.60
136	CS	8	DA	N1-C6-N6	11.60	125.56	118.60
155	Cs	32	DA	N1-C6-N6	11.60	125.56	118.60
1	AA	1362	DA	N1-C6-N6	11.60	125.56	118.60
1	AA	1873	DA	N1-C6-N6	11.60	125.56	118.60
1	AA	6745	DA	N1-C6-N6	11.60	125.56	118.60
53	Ax	26	DA	N1-C6-N6	11.60	125.56	118.60
112	C2	30	DA	N1-C6-N6	11.60	125.56	118.60
1	AA	3301	DA	N1-C6-N6	11.60	125.56	118.60
2	A0	11	DA	N1-C6-N6	11.60	125.56	118.60
3	A1	25	DA	N1-C6-N6	11.60	125.56	118.60
12	AC	40	DA	N1-C6-N6	11.60	125.56	118.60
32	AW	26	DA	N1-C6-N6	11.60	125.56	118.60
16	AG	21	DA	N1-C6-N6	11.60	125.56	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
28	AS	38	DA	N1-C6-N6	11.60	125.56	118.60
47	An	43	DA	N1-C6-N6	11.60	125.56	118.60
82	BR	62	DA	N1-C6-N6	11.60	125.56	118.60
139	CV	25	DA	N1-C6-N6	11.60	125.56	118.60
102	Bl	41	DA	N1-C6-N6	11.60	125.56	118.60
143	CZ	30	DA	N1-C6-N6	11.60	125.56	118.60
156	Ct	18	DT	P-O3'-C3'	11.60	133.62	119.70
1	AA	1516	DA	N1-C6-N6	11.59	125.56	118.60
67	BC	38	DA	N1-C6-N6	11.59	125.56	118.60
1	AA	6552	DA	N1-C6-N6	11.59	125.56	118.60
1	AA	6887	DA	N1-C6-N6	11.59	125.56	118.60
10	A8	23	DA	N1-C6-N6	11.59	125.56	118.60
98	Bh	17	DA	N1-C6-N6	11.59	125.56	118.60
129	CL	42	DA	N1-C6-N6	11.59	125.56	118.60
138	CU	1	DA	N1-C6-N6	11.59	125.56	118.60
138	CU	8	DA	N1-C6-N6	11.59	125.56	118.60
1	AA	1259	DA	N1-C6-N6	11.59	125.55	118.60
1	AA	1730	DA	N1-C6-N6	11.59	125.55	118.60
1	AA	4553	DA	N1-C6-N6	11.59	125.55	118.60
18	AI	8	DA	N1-C6-N6	11.59	125.56	118.60
55	Az	5	DA	N1-C6-N6	11.59	125.55	118.60
22	AM	1	DA	N1-C6-N6	11.59	125.55	118.60
66	BB	1	DA	N1-C6-N6	11.59	125.55	118.60
157	Cu	60	DA	N1-C6-N6	11.59	125.55	118.60
1	AA	1068	DA	N1-C6-N6	11.59	125.55	118.60
1	AA	4370	DA	N1-C6-N6	11.59	125.55	118.60
1	AA	193	DA	N1-C6-N6	11.59	125.55	118.60
1	AA	6242	DA	N1-C6-N6	11.59	125.55	118.60
1	AA	6359	DA	N1-C6-N6	11.59	125.55	118.60
67	BC	8	DA	N1-C6-N6	11.59	125.55	118.60
123	CF	31	DA	N1-C6-N6	11.59	125.55	118.60
139	CV	21	DA	N1-C6-N6	11.59	125.55	118.60
1	AA	461	DA	N1-C6-N6	11.59	125.55	118.60
1	AA	1202	DA	N1-C6-N6	11.59	125.55	118.60
1	AA	2258	DA	N1-C6-N6	11.59	125.55	118.60
1	AA	5443	DA	N1-C6-N6	11.59	125.55	118.60
35	AZ	10	DA	N1-C6-N6	11.59	125.55	118.60
35	AZ	41	DA	N1-C6-N6	11.59	125.55	118.60
54	Ay	5	DA	N1-C6-N6	11.59	125.55	118.60
63	B7	8	DA	N1-C6-N6	11.59	125.55	118.60
86	BV	27	DA	N1-C6-N6	11.59	125.55	118.60
108	Br	6	DA	N1-C6-N6	11.59	125.55	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
131	CN	3	DA	N1-C6-N6	11.59	125.55	118.60
1	AA	539	DA	N1-C6-N6	11.58	125.55	118.60
1	AA	1962	DA	N1-C6-N6	11.58	125.55	118.60
1	AA	2393	DA	N1-C6-N6	11.58	125.55	118.60
1	AA	3451	DA	N1-C6-N6	11.58	125.55	118.60
71	BG	43	DA	N1-C6-N6	11.58	125.55	118.60
152	Cp	5	DA	N1-C6-N6	11.58	125.55	118.60
1	AA	4325	DA	N1-C6-N6	11.58	125.55	118.60
1	AA	4607	DA	N1-C6-N6	11.58	125.55	118.60
1	AA	4642	DA	N1-C6-N6	11.58	125.55	118.60
99	Bi	34	DA	N1-C6-N6	11.58	125.55	118.60
1	AA	4899	DA	N1-C6-N6	11.58	125.55	118.60
1	AA	5864	DA	N1-C6-N6	11.58	125.55	118.60
39	Af	46	DA	N1-C6-N6	11.58	125.55	118.60
15	AF	25	DA	N1-C6-N6	11.58	125.55	118.60
106	Bp	45	DA	N1-C6-N6	11.58	125.55	118.60
121	CD	47	DA	N1-C6-N6	11.58	125.55	118.60
158	Cv	32	DA	N1-C6-N6	11.58	125.55	118.60
1	AA	3101	DA	N1-C6-N6	11.58	125.55	118.60
1	AA	3640	DA	N1-C6-N6	11.58	125.55	118.60
1	AA	4672	DA	N1-C6-N6	11.58	125.55	118.60
63	B7	39	DA	N1-C6-N6	11.58	125.55	118.60
75	BK	42	DA	N1-C6-N6	11.58	125.55	118.60
1	AA	6970	DA	N1-C6-N6	11.58	125.55	118.60
133	CP	41	DA	N1-C6-N6	11.58	125.55	118.60
134	CQ	30	DA	N1-C6-N6	11.58	125.55	118.60
156	Ct	40	DA	N1-C6-N6	11.58	125.55	118.60
162	Cz	14	DA	N1-C6-N6	11.58	125.55	118.60
1	AA	768	DA	N1-C6-N6	11.58	125.55	118.60
1	AA	1722	DA	N1-C6-N6	11.58	125.55	118.60
1	AA	3410	DA	N1-C6-N6	11.58	125.55	118.60
140	CW	16	DA	N1-C6-N6	11.58	125.55	118.60
1	AA	2097	DA	N1-C6-N6	11.58	125.55	118.60
16	AG	34	DA	N1-C6-N6	11.58	125.55	118.60
69	BE	39	DA	N1-C6-N6	11.58	125.55	118.60
80	BP	37	DA	N1-C6-N6	11.58	125.55	118.60
94	Bd	13	DA	N1-C6-N6	11.58	125.55	118.60
117	C7	44	DA	N1-C6-N6	11.58	125.55	118.60
82	BR	1	DA	N1-C6-N6	11.58	125.55	118.60
89	BY	18	DA	N1-C6-N6	11.58	125.55	118.60
127	CJ	21	DA	N1-C6-N6	11.58	125.55	118.60
144	Cb	7	DA	N1-C6-N6	11.58	125.55	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3736	DA	N1-C6-N6	11.57	125.55	118.60
1	AA	5961	DA	N1-C6-N6	11.57	125.55	118.60
66	BB	13	DA	N1-C6-N6	11.57	125.55	118.60
146	Cd	36	DA	N1-C6-N6	11.57	125.55	118.60
1	AA	4120	DA	N1-C6-N6	11.57	125.54	118.60
1	AA	6953	DA	N1-C6-N6	11.57	125.54	118.60
4	A2	32	DA	N1-C6-N6	11.57	125.54	118.60
23	AN	25	DA	N1-C6-N6	11.57	125.55	118.60
39	Af	30	DA	N1-C6-N6	11.57	125.54	118.60
41	Ah	15	DA	N1-C6-N6	11.57	125.54	118.60
135	CR	23	DA	N1-C6-N6	11.57	125.54	118.60
139	CV	27	DA	N1-C6-N6	11.57	125.54	118.60
1	AA	1546	DA	N1-C6-N6	11.57	125.54	118.60
1	AA	2428	DA	N1-C6-N6	11.57	125.54	118.60
1	AA	2858	DA	N1-C6-N6	11.57	125.54	118.60
21	AL	27	DA	N1-C6-N6	11.57	125.54	118.60
26	AQ	51	DA	N1-C6-N6	11.57	125.54	118.60
33	AX	17	DA	N1-C6-N6	11.57	125.54	118.60
41	Ah	31	DA	N1-C6-N6	11.57	125.54	118.60
87	BW	17	DA	N1-C6-N6	11.57	125.54	118.60
87	BW	20	DA	N1-C6-N6	11.57	125.54	118.60
101	Bk	31	DA	N1-C6-N6	11.57	125.54	118.60
101	Bk	42	DA	N1-C6-N6	11.57	125.54	118.60
147	Ce	2	DA	N1-C6-N6	11.57	125.54	118.60
1	AA	1629	DA	N1-C6-N6	11.57	125.54	118.60
1	AA	1895	DA	N1-C6-N6	11.57	125.54	118.60
1	AA	4161	DA	N1-C6-N6	11.57	125.54	118.60
1	AA	6168	DA	N1-C6-N6	11.57	125.54	118.60
27	AR	13	DA	N1-C6-N6	11.57	125.54	118.60
37	Ac	59	DA	N1-C6-N6	11.57	125.54	118.60
112	C2	22	DA	N1-C6-N6	11.57	125.54	118.60
1	AA	1502	DA	N1-C6-N6	11.57	125.54	118.60
1	AA	2335	DA	N1-C6-N6	11.57	125.54	118.60
1	AA	6613	DA	N1-C6-N6	11.57	125.54	118.60
1	AA	7181	DA	N1-C6-N6	11.57	125.54	118.60
2	A0	36	DA	N1-C6-N6	11.57	125.54	118.60
155	Cs	16	DA	N1-C6-N6	11.57	125.54	118.60
1	AA	837	DA	N1-C6-N6	11.57	125.54	118.60
1	AA	1820	DA	N1-C6-N6	11.57	125.54	118.60
1	AA	2808	DA	N1-C6-N6	11.57	125.54	118.60
1	AA	3214	DA	N1-C6-N6	11.57	125.54	118.60
1	AA	4012	DA	N1-C6-N6	11.57	125.54	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6925	DA	N1-C6-N6	11.57	125.54	118.60
1	AA	7021	DA	N1-C6-N6	11.57	125.54	118.60
6	A4	9	DA	N1-C6-N6	11.57	125.54	118.60
21	AL	40	DA	N1-C6-N6	11.57	125.54	118.60
37	Ac	5	DA	N1-C6-N6	11.57	125.54	118.60
46	Am	3	DA	N1-C6-N6	11.57	125.54	118.60
57	B1	37	DA	N1-C6-N6	11.57	125.54	118.60
115	C5	49	DA	N1-C6-N6	11.57	125.54	118.60
128	CK	2	DA	N1-C6-N6	11.57	125.54	118.60
148	Cf	45	DA	N1-C6-N6	11.57	125.54	118.60
159	Cw	32	DA	N1-C6-N6	11.57	125.54	118.60
1	AA	5108	DA	N1-C6-N6	11.56	125.54	118.60
1	AA	5160	DA	N1-C6-N6	11.56	125.54	118.60
1	AA	571	DA	N1-C6-N6	11.56	125.54	118.60
1	AA	1307	DA	N1-C6-N6	11.56	125.54	118.60
1	AA	6877	DA	N1-C6-N6	11.56	125.54	118.60
40	Ag	42	DA	N1-C6-N6	11.56	125.54	118.60
3	A1	40	DA	N1-C6-N6	11.56	125.54	118.60
46	Am	34	DA	N1-C6-N6	11.56	125.54	118.60
66	BB	14	DA	N1-C6-N6	11.56	125.54	118.60
84	BT	49	DA	N1-C6-N6	11.56	125.54	118.60
104	Bn	18	DA	N1-C6-N6	11.56	125.54	118.60
1	AA	276	DA	N1-C6-N6	11.56	125.54	118.60
1	AA	1007	DA	N1-C6-N6	11.56	125.54	118.60
1	AA	6679	DA	N1-C6-N6	11.56	125.54	118.60
17	AH	6	DA	N1-C6-N6	11.56	125.54	118.60
111	C1	2	DA	N1-C6-N6	11.56	125.54	118.60
1	AA	1942	DA	N1-C6-N6	11.56	125.54	118.60
1	AA	3763	DA	N1-C6-N6	11.56	125.54	118.60
1	AA	6714	DA	N1-C6-N6	11.56	125.54	118.60
39	Af	10	DA	N1-C6-N6	11.56	125.54	118.60
37	Ac	6	DA	N1-C6-N6	11.56	125.54	118.60
37	Ac	19	DA	N1-C6-N6	11.56	125.54	118.60
61	B5	20	DA	N1-C6-N6	11.56	125.54	118.60
68	BD	5	DA	N1-C6-N6	11.56	125.54	118.60
100	Bj	36	DA	N1-C6-N6	11.56	125.54	118.60
120	CC	40	DA	N1-C6-N6	11.56	125.54	118.60
157	Cu	31	DA	N1-C6-N6	11.56	125.54	118.60
1	AA	5605	DA	N1-C6-N6	11.56	125.53	118.60
1	AA	6065	DA	N1-C6-N6	11.56	125.54	118.60
13	AD	4	DA	N1-C6-N6	11.56	125.53	118.60
17	AH	7	DA	N1-C6-N6	11.56	125.53	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	Ad	12	DA	N1-C6-N6	11.56	125.54	118.60
71	BG	39	DA	N1-C6-N6	11.56	125.54	118.60
157	Cu	15	DA	N1-C6-N6	11.56	125.53	118.60
37	Ac	40	DA	N1-C6-N6	11.56	125.53	118.60
82	BR	37	DA	N1-C6-N6	11.56	125.53	118.60
90	BZ	42	DA	N1-C6-N6	11.56	125.53	118.60
136	CS	15	DA	N1-C6-N6	11.56	125.53	118.60
159	Cw	42	DA	N1-C6-N6	11.56	125.53	118.60
1	AA	3880	DA	N1-C6-N6	11.56	125.53	118.60
61	B5	38	DA	N1-C6-N6	11.56	125.53	118.60
1	AA	1572	DA	N1-C6-N6	11.55	125.53	118.60
1	AA	2704	DA	N1-C6-N6	11.55	125.53	118.60
1	AA	5559	DA	N1-C6-N6	11.55	125.53	118.60
53	Ax	9	DA	N1-C6-N6	11.55	125.53	118.60
102	Bl	29	DA	N1-C6-N6	11.56	125.53	118.60
147	Ce	43	DA	N1-C6-N6	11.56	125.53	118.60
1	AA	3267	DA	N1-C6-N6	11.55	125.53	118.60
1	AA	3730	DA	N1-C6-N6	11.55	125.53	118.60
1	AA	5723	DA	O4'-C4'-C3'	-11.55	99.07	106.00
1	AA	6766	DA	N1-C6-N6	11.55	125.53	118.60
46	Am	2	DA	N1-C6-N6	11.55	125.53	118.60
131	CN	11	DA	N1-C6-N6	11.55	125.53	118.60
138	CU	3	DA	N1-C6-N6	11.55	125.53	118.60
2	A0	38	DA	N1-C6-N6	11.55	125.53	118.60
19	AJ	11	DA	N1-C6-N6	11.55	125.53	118.60
51	Av	36	DA	N1-C6-N6	11.55	125.53	118.60
73	BI	11	DA	N1-C6-N6	11.55	125.53	118.60
116	C6	20	DA	N1-C6-N6	11.55	125.53	118.60
103	Bm	2	DA	N1-C6-N6	11.55	125.53	118.60
1	AA	582	DA	N1-C6-N6	11.55	125.53	118.60
1	AA	6171	DA	N1-C6-N6	11.55	125.53	118.60
1	AA	6799	DA	N1-C6-N6	11.55	125.53	118.60
119	CB	31	DA	N1-C6-N6	11.55	125.53	118.60
1	AA	921	DA	N1-C6-N6	11.55	125.53	118.60
1	AA	1578	DA	N1-C6-N6	11.55	125.53	118.60
1	AA	3456	DA	N1-C6-N6	11.55	125.53	118.60
1	AA	3865	DA	N1-C6-N6	11.55	125.53	118.60
1	AA	4274	DA	N1-C6-N6	11.55	125.53	118.60
1	AA	5106	DA	N1-C6-N6	11.55	125.53	118.60
1	AA	5937	DA	N1-C6-N6	11.55	125.53	118.60
1	AA	6865	DA	N1-C6-N6	11.55	125.53	118.60
1	AA	6876	DA	N1-C6-N6	11.55	125.53	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	AB	37	DA	N1-C6-N6	11.55	125.53	118.60
102	Bl	38	DA	N1-C6-N6	11.55	125.53	118.60
125	CH	1	DA	N1-C6-N6	11.55	125.53	118.60
133	CP	13	DA	N1-C6-N6	11.55	125.53	118.60
159	Cw	52	DA	N1-C6-N6	11.55	125.53	118.60
131	CN	39	DA	N1-C6-N6	11.55	125.53	118.60
156	Ct	5	DA	N1-C6-N6	11.55	125.53	118.60
1	AA	1147	DA	N1-C6-N6	11.55	125.53	118.60
1	AA	4995	DA	N1-C6-N6	11.55	125.53	118.60
27	AR	54	DA	N1-C6-N6	11.55	125.53	118.60
111	C1	28	DA	N1-C6-N6	11.55	125.53	118.60
135	CR	16	DA	N1-C6-N6	11.55	125.53	118.60
1	AA	3633	DA	N1-C6-N6	11.55	125.53	118.60
1	AA	6520	DA	N1-C6-N6	11.55	125.53	118.60
19	AJ	47	DA	N1-C6-N6	11.55	125.53	118.60
95	Be	46	DA	N1-C6-N6	11.55	125.53	118.60
97	Bg	18	DA	N1-C6-N6	11.55	125.53	118.60
111	C1	37	DA	N1-C6-N6	11.55	125.53	118.60
146	Cd	41	DA	N1-C6-N6	11.55	125.53	118.60
115	C5	10	DA	N1-C6-N6	11.55	125.53	118.60
1	AA	1665	DA	N1-C6-N6	11.54	125.53	118.60
1	AA	1775	DA	N1-C6-N6	11.54	125.53	118.60
1	AA	3510	DA	N1-C6-N6	11.54	125.53	118.60
1	AA	3702	DA	N1-C6-N6	11.54	125.53	118.60
1	AA	4092	DA	N1-C6-N6	11.54	125.53	118.60
1	AA	5637	DA	N1-C6-N6	11.54	125.53	118.60
1	AA	7151	DA	N1-C6-N6	11.54	125.53	118.60
63	B7	28	DA	N1-C6-N6	11.54	125.53	118.60
94	Bd	43	DA	N1-C6-N6	11.54	125.53	118.60
149	Cg	9	DA	N1-C6-N6	11.54	125.53	118.60
47	An	9	DA	N1-C6-N6	11.54	125.53	118.60
1	AA	75	DA	N1-C6-N6	11.54	125.53	118.60
1	AA	1792	DA	N1-C6-N6	11.54	125.53	118.60
1	AA	2443	DA	N1-C6-N6	11.54	125.53	118.60
1	AA	2562	DA	N1-C6-N6	11.54	125.53	118.60
1	AA	3142	DA	N1-C6-N6	11.54	125.53	118.60
1	AA	4114	DA	N1-C6-N6	11.54	125.53	118.60
1	AA	4675	DA	N1-C6-N6	11.54	125.53	118.60
1	AA	6273	DT	P-O3'-C3'	11.54	133.55	119.70
32	AW	40	DA	N1-C6-N6	11.54	125.53	118.60
51	Av	3	DA	N1-C6-N6	11.54	125.53	118.60
57	B1	7	DA	N1-C6-N6	11.54	125.53	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
63	B7	27	DA	N1-C6-N6	11.54	125.53	118.60
65	B9	8	DA	N1-C6-N6	11.54	125.53	118.60
1	AA	6826	DA	N1-C6-N6	11.54	125.53	118.60
17	AH	33	DA	N1-C6-N6	11.54	125.53	118.60
50	Au	22	DA	N1-C6-N6	11.54	125.53	118.60
92	Bb	14	DA	N1-C6-N6	11.54	125.52	118.60
119	CB	15	DA	N1-C6-N6	11.54	125.53	118.60
160	Cx	45	DA	N1-C6-N6	11.54	125.53	118.60
162	Cz	31	DA	N1-C6-N6	11.54	125.52	118.60
1	AA	1066	DA	N1-C6-N6	11.54	125.52	118.60
1	AA	1685	DA	N1-C6-N6	11.54	125.52	118.60
1	AA	2099	DA	N1-C6-N6	11.54	125.52	118.60
1	AA	4590	DA	N1-C6-N6	11.54	125.52	118.60
1	AA	5839	DA	N1-C6-N6	11.54	125.52	118.60
1	AA	6301	DA	N1-C6-N6	11.54	125.52	118.60
1	AA	6308	DA	N1-C6-N6	11.54	125.52	118.60
1	AA	7205	DA	N1-C6-N6	11.54	125.52	118.60
28	AS	57	DA	N1-C6-N6	11.54	125.52	118.60
63	B7	10	DA	N1-C6-N6	11.54	125.52	118.60
68	BD	12	DA	N1-C6-N6	11.54	125.52	118.60
104	Bn	38	DA	N1-C6-N6	11.54	125.52	118.60
129	CL	14	DA	N1-C6-N6	11.54	125.52	118.60
1	AA	273	DA	N1-C6-N6	11.54	125.52	118.60
1	AA	488	DA	N1-C6-N6	11.54	125.52	118.60
1	AA	3210	DA	N1-C6-N6	11.54	125.52	118.60
1	AA	3612	DA	N1-C6-N6	11.54	125.52	118.60
1	AA	4006	DA	N1-C6-N6	11.54	125.52	118.60
1	AA	5932	DA	N1-C6-N6	11.54	125.52	118.60
111	C1	45	DA	N1-C6-N6	11.54	125.52	118.60
19	AJ	43	DA	N1-C6-N6	11.54	125.52	118.60
32	AW	15	DA	N1-C6-N6	11.54	125.52	118.60
37	Ac	22	DA	N1-C6-N6	11.54	125.52	118.60
133	CP	37	DA	N1-C6-N6	11.54	125.52	118.60
139	CV	33	DA	N1-C6-N6	11.54	125.52	118.60
1	AA	364	DA	N1-C6-N6	11.54	125.52	118.60
94	Bd	23	DA	N1-C6-N6	11.54	125.52	118.60
1	AA	884	DA	N1-C6-N6	11.53	125.52	118.60
1	AA	1114	DA	N1-C6-N6	11.54	125.52	118.60
1	AA	1338	DA	N1-C6-N6	11.54	125.52	118.60
1	AA	1418	DA	N1-C6-N6	11.54	125.52	118.60
1	AA	3511	DA	N1-C6-N6	11.54	125.52	118.60
1	AA	4426	DA	N1-C6-N6	11.54	125.52	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5723	DA	N1-C6-N6	11.54	125.52	118.60
101	Bk	59	DA	N1-C6-N6	11.54	125.52	118.60
127	CJ	40	DA	N1-C6-N6	11.54	125.52	118.60
42	Ai	6	DA	N1-C6-N6	11.53	125.52	118.60
69	BE	40	DA	N1-C6-N6	11.53	125.52	118.60
100	Bj	31	DA	N1-C6-N6	11.53	125.52	118.60
117	C7	8	DA	N1-C6-N6	11.54	125.52	118.60
1	AA	73	DA	N1-C6-N6	11.53	125.52	118.60
1	AA	1191	DA	N1-C6-N6	11.53	125.52	118.60
5	A3	3	DA	N1-C6-N6	11.53	125.52	118.60
14	AE	4	DA	N1-C6-N6	11.53	125.52	118.60
146	Cd	40	DA	N1-C6-N6	11.53	125.52	118.60
25	AP	1	DA	N1-C6-N6	11.53	125.52	118.60
28	AS	42	DA	N1-C6-N6	11.53	125.52	118.60
136	CS	9	DA	N1-C6-N6	11.53	125.52	118.60
143	CZ	38	DA	N1-C6-N6	11.53	125.52	118.60
154	Cr	31	DA	N1-C6-N6	11.53	125.52	118.60
1	AA	413	DA	N1-C6-N6	11.53	125.52	118.60
1	AA	1200	DA	N1-C6-N6	11.53	125.52	118.60
114	C4	51	DA	N1-C6-N6	11.53	125.52	118.60
1	AA	1739	DA	N1-C6-N6	11.53	125.52	118.60
1	AA	2510	DA	N1-C6-N6	11.53	125.52	118.60
1	AA	3793	DA	N1-C6-N6	11.53	125.52	118.60
1	AA	4780	DA	N1-C6-N6	11.53	125.52	118.60
1	AA	5604	DA	N1-C6-N6	11.53	125.52	118.60
1	AA	6142	DA	N1-C6-N6	11.53	125.52	118.60
1	AA	6146	DA	N1-C6-N6	11.53	125.52	118.60
1	AA	6424	DA	N1-C6-N6	11.53	125.52	118.60
144	Cb	11	DA	N1-C6-N6	11.53	125.52	118.60
1	AA	146	DA	N1-C6-N6	11.53	125.52	118.60
1	AA	1140	DA	N1-C6-N6	11.53	125.52	118.60
1	AA	2147	DA	N1-C6-N6	11.53	125.52	118.60
1	AA	2202	DA	N1-C6-N6	11.53	125.52	118.60
1	AA	3782	DA	N1-C6-N6	11.53	125.52	118.60
1	AA	4863	DA	N1-C6-N6	11.53	125.52	118.60
1	AA	6517	DA	N1-C6-N6	11.53	125.52	118.60
37	Ac	39	DA	N1-C6-N6	11.53	125.52	118.60
147	Ce	46	DA	N1-C6-N6	11.53	125.52	118.60
1	AA	6635	DA	N1-C6-N6	11.53	125.52	118.60
3	A1	32	DA	N1-C6-N6	11.53	125.52	118.60
15	AF	31	DA	N1-C6-N6	11.53	125.52	118.60
21	AL	44	DA	N1-C6-N6	11.53	125.52	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
150	Ch	33	DA	N1-C6-N6	11.53	125.52	118.60
152	Cp	46	DA	N1-C6-N6	11.53	125.52	118.60
1	AA	66	DA	N1-C6-N6	11.52	125.52	118.60
1	AA	641	DA	N1-C6-N6	11.52	125.51	118.60
1	AA	1234	DA	N1-C6-N6	11.52	125.51	118.60
1	AA	1623	DA	N1-C6-N6	11.52	125.52	118.60
1	AA	2111	DA	N1-C6-N6	11.52	125.51	118.60
1	AA	5227	DA	N1-C6-N6	11.52	125.51	118.60
35	AZ	9	DA	N1-C6-N6	11.52	125.51	118.60
71	BG	7	DA	N1-C6-N6	11.52	125.51	118.60
1	AA	945	DA	N1-C6-N6	11.52	125.51	118.60
1	AA	1410	DA	N1-C6-N6	11.52	125.51	118.60
1	AA	2141	DA	N1-C6-N6	11.52	125.51	118.60
1	AA	3427	DA	N1-C6-N6	11.52	125.51	118.60
1	AA	6796	DA	N1-C6-N6	11.52	125.51	118.60
2	A0	10	DA	N1-C6-N6	11.52	125.51	118.60
18	AI	23	DA	N1-C6-N6	11.52	125.51	118.60
28	AS	58	DA	N1-C6-N6	11.52	125.51	118.60
47	An	42	DA	N1-C6-N6	11.52	125.51	118.60
70	BF	19	DA	N1-C6-N6	11.52	125.51	118.60
75	BK	15	DA	N1-C6-N6	11.52	125.51	118.60
98	Bh	44	DA	N1-C6-N6	11.52	125.51	118.60
127	CJ	2	DA	N1-C6-N6	11.52	125.51	118.60
146	Cd	26	DA	N1-C6-N6	11.52	125.51	118.60
1	AA	2192	DA	N1-C6-N6	11.52	125.51	118.60
19	AJ	22	DA	N1-C6-N6	11.52	125.51	118.60
73	BI	15	DA	N1-C6-N6	11.52	125.51	118.60
1	AA	181	DA	N1-C6-N6	11.52	125.51	118.60
1	AA	1032	DA	N1-C6-N6	11.52	125.51	118.60
1	AA	3049	DA	O4'-C4'-C3'	-11.52	99.09	106.00
1	AA	3792	DA	N1-C6-N6	11.52	125.51	118.60
1	AA	4703	DA	N1-C6-N6	11.52	125.51	118.60
17	AH	48	DA	N1-C6-N6	11.52	125.51	118.60
27	AR	31	DA	N1-C6-N6	11.52	125.51	118.60
27	AR	60	DA	N1-C6-N6	11.52	125.51	118.60
28	AS	34	DA	N1-C6-N6	11.52	125.51	118.60
29	AT	7	DA	N1-C6-N6	11.52	125.51	118.60
33	AX	13	DA	N1-C6-N6	11.52	125.51	118.60
38	Ad	36	DA	N1-C6-N6	11.52	125.51	118.60
46	Am	40	DA	N1-C6-N6	11.52	125.51	118.60
60	B4	7	DA	N1-C6-N6	11.52	125.51	118.60
71	BG	24	DA	N1-C6-N6	11.52	125.51	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
87	BW	51	DA	N1-C6-N6	11.52	125.51	118.60
140	CW	34	DA	N1-C6-N6	11.52	125.51	118.60
161	Cy	51	DA	N1-C6-N6	11.52	125.51	118.60
1	AA	78	DA	N1-C6-N6	11.52	125.51	118.60
1	AA	1656	DA	N1-C6-N6	11.52	125.51	118.60
1	AA	1874	DA	N1-C6-N6	11.52	125.51	118.60
1	AA	1982	DA	N1-C6-N6	11.52	125.51	118.60
1	AA	2150	DA	N1-C6-N6	11.52	125.51	118.60
1	AA	4508	DA	N1-C6-N6	11.52	125.51	118.60
1	AA	6121	DA	N1-C6-N6	11.52	125.51	118.60
6	A4	48	DA	N1-C6-N6	11.52	125.51	118.60
121	CD	48	DA	N1-C6-N6	11.52	125.51	118.60
26	AQ	52	DA	N1-C6-N6	11.52	125.51	118.60
66	BB	19	DA	N1-C6-N6	11.52	125.51	118.60
1	AA	1033	DA	N1-C6-N6	11.51	125.51	118.60
1	AA	1690	DA	N1-C6-N6	11.51	125.51	118.60
1	AA	2057	DA	N1-C6-N6	11.51	125.51	118.60
1	AA	3240	DA	N1-C6-N6	11.51	125.51	118.60
1	AA	5719	DA	N1-C6-N6	11.51	125.51	118.60
2	A0	40	DA	N1-C6-N6	11.51	125.51	118.60
108	Br	41	DA	N1-C6-N6	11.51	125.51	118.60
139	CV	4	DA	N1-C6-N6	11.51	125.51	118.60
154	Cr	5	DA	N1-C6-N6	11.51	125.51	118.60
1	AA	4005	DA	N1-C6-N6	11.51	125.51	118.60
1	AA	5501	DA	N1-C6-N6	11.51	125.51	118.60
15	AF	39	DA	N1-C6-N6	11.51	125.51	118.60
19	AJ	3	DA	N1-C6-N6	11.51	125.51	118.60
51	Av	40	DA	N1-C6-N6	11.51	125.51	118.60
27	AR	51	DA	N1-C6-N6	11.51	125.51	118.60
57	B1	58	DA	N1-C6-N6	11.51	125.51	118.60
67	BC	14	DA	N1-C6-N6	11.51	125.51	118.60
90	BZ	35	DA	N1-C6-N6	11.51	125.51	118.60
150	Ch	14	DA	N1-C6-N6	11.51	125.51	118.60
155	Cs	37	DA	N1-C6-N6	11.51	125.51	118.60
1	AA	2084	DA	N1-C6-N6	11.51	125.51	118.60
78	BN	20	DA	N1-C6-N6	11.51	125.51	118.60
83	BS	38	DA	N1-C6-N6	11.51	125.51	118.60
1	AA	3966	DA	N1-C6-N6	11.51	125.50	118.60
1	AA	5614	DA	N1-C6-N6	11.51	125.51	118.60
1	AA	6267	DA	N1-C6-N6	11.51	125.51	118.60
1	AA	6278	DA	N1-C6-N6	11.51	125.51	118.60
6	A4	47	DA	N1-C6-N6	11.51	125.51	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
46	Am	32	DA	N1-C6-N6	11.51	125.51	118.60
57	B1	46	DA	N1-C6-N6	11.51	125.51	118.60
157	Cu	32	DA	N1-C6-N6	11.51	125.51	118.60
43	Aj	46	DA	N1-C6-N6	11.51	125.50	118.60
61	B5	26	DA	N1-C6-N6	11.51	125.50	118.60
88	BX	42	DA	N1-C6-N6	11.51	125.51	118.60
129	CL	16	DA	N1-C6-N6	11.51	125.51	118.60
158	Cv	20	DA	N1-C6-N6	11.51	125.51	118.60
1	AA	2376	DA	N1-C6-N6	11.51	125.50	118.60
1	AA	6011	DA	N1-C6-N6	11.51	125.50	118.60
2	A0	23	DA	N1-C6-N6	11.51	125.50	118.60
1	AA	2386	DA	N1-C6-N6	11.51	125.50	118.60
1	AA	2793	DA	N1-C6-N6	11.51	125.50	118.60
1	AA	3704	DA	N1-C6-N6	11.51	125.50	118.60
1	AA	6537	DA	N1-C6-N6	11.51	125.50	118.60
1	AA	5110	DA	N1-C6-N6	11.51	125.50	118.60
1	AA	6988	DA	N1-C6-N6	11.51	125.50	118.60
11	AB	24	DA	N1-C6-N6	11.51	125.50	118.60
56	B0	35	DA	N1-C6-N6	11.51	125.50	118.60
102	Bl	7	DA	N1-C6-N6	11.51	125.50	118.60
109	Bs	34	DA	N1-C6-N6	11.51	125.50	118.60
1	AA	5648	DA	N1-C6-N6	11.51	125.50	118.60
1	AA	6199	DA	N1-C6-N6	11.51	125.50	118.60
59	B3	14	DA	N1-C6-N6	11.51	125.50	118.60
114	C4	17	DA	N1-C6-N6	11.51	125.50	118.60
138	CU	10	DA	N1-C6-N6	11.51	125.50	118.60
1	AA	252	DA	N1-C6-N6	11.50	125.50	118.60
1	AA	3576	DA	N1-C6-N6	11.50	125.50	118.60
153	Cq	32	DA	N1-C6-N6	11.50	125.50	118.60
1	AA	4521	DA	N1-C6-N6	11.50	125.50	118.60
1	AA	6316	DA	N1-C6-N6	11.50	125.50	118.60
65	B9	16	DA	N1-C6-N6	11.50	125.50	118.60
87	BW	22	DA	N1-C6-N6	11.50	125.50	118.60
155	Cs	35	DA	N1-C6-N6	11.50	125.50	118.60
1	AA	2346	DA	N1-C6-N6	11.50	125.50	118.60
1	AA	3100	DA	N1-C6-N6	11.50	125.50	118.60
1	AA	3152	DA	N1-C6-N6	11.50	125.50	118.60
1	AA	4460	DA	N1-C6-N6	11.50	125.50	118.60
1	AA	6026	DA	N1-C6-N6	11.50	125.50	118.60
1	AA	6913	DA	N1-C6-N6	11.50	125.50	118.60
7	A5	48	DA	N1-C6-N6	11.50	125.50	118.60
125	CH	40	DA	N1-C6-N6	11.50	125.50	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	7168	DA	N1-C6-N6	11.50	125.50	118.60
7	A5	19	DA	N1-C6-N6	11.50	125.50	118.60
9	A7	8	DA	N1-C6-N6	11.50	125.50	118.60
31	AV	25	DA	N1-C6-N6	11.50	125.50	118.60
64	B8	30	DA	N1-C6-N6	11.50	125.50	118.60
70	BF	29	DA	N1-C6-N6	11.50	125.50	118.60
42	Ai	42	DA	N1-C6-N6	11.50	125.50	118.60
61	B5	7	DA	N1-C6-N6	11.50	125.50	118.60
127	CJ	42	DA	N1-C6-N6	11.50	125.50	118.60
128	CK	21	DA	N1-C6-N6	11.50	125.50	118.60
1	AA	1047	DA	N1-C6-N6	11.50	125.50	118.60
35	AZ	2	DA	N1-C6-N6	11.50	125.50	118.60
145	Cc	52	DA	N1-C6-N6	11.50	125.50	118.60
1	AA	83	DA	N1-C6-N6	11.50	125.50	118.60
1	AA	1095	DA	N1-C6-N6	11.50	125.50	118.60
1	AA	3646	DA	N1-C6-N6	11.50	125.50	118.60
14	AE	33	DA	N1-C6-N6	11.50	125.50	118.60
24	AO	44	DA	N1-C6-N6	11.50	125.50	118.60
32	AW	50	DA	N1-C6-N6	11.50	125.50	118.60
136	CS	10	DA	N1-C6-N6	11.50	125.50	118.60
143	CZ	2	DA	N1-C6-N6	11.50	125.50	118.60
1	AA	134	DA	N1-C6-N6	11.49	125.50	118.60
1	AA	478	DA	N1-C6-N6	11.49	125.50	118.60
1	AA	991	DA	N1-C6-N6	11.49	125.50	118.60
1	AA	695	DA	N1-C6-N6	11.49	125.50	118.60
1	AA	1342	DA	N1-C6-N6	11.49	125.50	118.60
30	AU	18	DA	N1-C6-N6	11.49	125.50	118.60
106	Bp	1	DA	N1-C6-N6	11.49	125.50	118.60
162	Cz	4	DA	N1-C6-N6	11.49	125.50	118.60
1	AA	2336	DA	N1-C6-N6	11.49	125.50	118.60
1	AA	2807	DA	N1-C6-N6	11.49	125.50	118.60
1	AA	3345	DA	N1-C6-N6	11.49	125.50	118.60
1	AA	4572	DA	N1-C6-N6	11.49	125.50	118.60
1	AA	5662	DA	N1-C6-N6	11.49	125.50	118.60
1	AA	6807	DA	N1-C6-N6	11.49	125.50	118.60
39	Af	47	DA	N1-C6-N6	11.49	125.50	118.60
119	CB	35	DA	N1-C6-N6	11.49	125.50	118.60
131	CN	27	DA	N1-C6-N6	11.49	125.50	118.60
10	A8	42	DA	N1-C6-N6	11.49	125.50	118.60
11	AB	31	DA	N1-C6-N6	11.49	125.50	118.60
51	Av	38	DA	N1-C6-N6	11.49	125.50	118.60
52	Aw	39	DA	N1-C6-N6	11.49	125.50	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
75	BK	18	DA	N1-C6-N6	11.49	125.50	118.60
86	BV	12	DA	N1-C6-N6	11.49	125.50	118.60
136	CS	46	DA	N1-C6-N6	11.49	125.50	118.60
146	Cd	1	DA	N1-C6-N6	11.49	125.50	118.60
1	AA	1274	DA	N1-C6-N6	11.49	125.50	118.60
1	AA	1536	DA	N1-C6-N6	11.49	125.49	118.60
1	AA	1541	DA	N1-C6-N6	11.49	125.49	118.60
1	AA	1787	DA	N1-C6-N6	11.49	125.49	118.60
1	AA	4643	DA	N1-C6-N6	11.49	125.49	118.60
1	AA	6208	DA	N1-C6-N6	11.49	125.49	118.60
115	C5	26	DA	N1-C6-N6	11.49	125.50	118.60
130	CM	53	DA	N1-C6-N6	11.49	125.50	118.60
1	AA	2015	DA	N1-C6-N6	11.49	125.49	118.60
1	AA	2621	DA	N1-C6-N6	11.49	125.49	118.60
1	AA	5333	DG	N1-C6-O6	11.49	126.79	119.90
4	A2	29	DA	N1-C6-N6	11.49	125.49	118.60
43	Aj	30	DA	N1-C6-N6	11.49	125.49	118.60
51	Av	33	DA	N1-C6-N6	11.49	125.49	118.60
99	Bi	8	DA	N1-C6-N6	11.49	125.49	118.60
115	C5	16	DA	N1-C6-N6	11.49	125.49	118.60
138	CU	4	DA	N1-C6-N6	11.49	125.49	118.60
1	AA	1765	DA	N1-C6-N6	11.49	125.49	118.60
1	AA	2365	DA	N1-C6-N6	11.49	125.49	118.60
1	AA	3151	DA	N1-C6-N6	11.49	125.49	118.60
1	AA	6671	DA	N1-C6-N6	11.49	125.49	118.60
6	A4	28	DA	N1-C6-N6	11.49	125.49	118.60
62	B6	45	DA	N1-C6-N6	11.49	125.49	118.60
126	CI	27	DA	N1-C6-N6	11.49	125.49	118.60
162	Cz	30	DA	N1-C6-N6	11.49	125.49	118.60
9	A7	16	DA	N1-C6-N6	11.49	125.49	118.60
40	Ag	8	DA	N1-C6-N6	11.49	125.49	118.60
41	Ah	3	DA	N1-C6-N6	11.49	125.49	118.60
71	BG	37	DA	N1-C6-N6	11.49	125.49	118.60
100	Bj	42	DA	N1-C6-N6	11.49	125.49	118.60
1	AA	174	DA	N1-C6-N6	11.48	125.49	118.60
1	AA	3384	DG	N1-C6-O6	11.48	126.79	119.90
1	AA	5458	DA	N1-C6-N6	11.48	125.49	118.60
1	AA	4674	DA	N1-C6-N6	11.48	125.49	118.60
1	AA	4783	DA	N1-C6-N6	11.48	125.49	118.60
8	A6	24	DA	N1-C6-N6	11.48	125.49	118.60
16	AG	39	DA	N1-C6-N6	11.48	125.49	118.60
21	AL	1	DA	N1-C6-N6	11.48	125.49	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
57	B1	35	DA	N1-C6-N6	11.48	125.49	118.60
75	BK	14	DA	N1-C6-N6	11.48	125.49	118.60
107	Bq	26	DA	N1-C6-N6	11.48	125.49	118.60
31	AV	37	DA	N1-C6-N6	11.48	125.49	118.60
102	Bl	46	DA	N1-C6-N6	11.48	125.49	118.60
114	C4	4	DA	N1-C6-N6	11.48	125.49	118.60
154	Cr	30	DA	N1-C6-N6	11.48	125.49	118.60
1	AA	1268	DA	N1-C6-N6	11.48	125.49	118.60
1	AA	3097	DA	N1-C6-N6	11.48	125.49	118.60
1	AA	5371	DA	N1-C6-N6	11.48	125.49	118.60
35	AZ	23	DA	N1-C6-N6	11.48	125.49	118.60
47	An	2	DA	N1-C6-N6	11.48	125.49	118.60
7	A5	18	DA	N1-C6-N6	11.48	125.49	118.60
24	AO	20	DA	N1-C6-N6	11.48	125.49	118.60
46	Am	33	DA	N1-C6-N6	11.48	125.49	118.60
57	B1	56	DA	N1-C6-N6	11.48	125.49	118.60
71	BG	28	DA	N1-C6-N6	11.48	125.49	118.60
1	AA	1709	DA	N1-C6-N6	11.48	125.49	118.60
1	AA	2232	DA	N1-C6-N6	11.48	125.49	118.60
1	AA	4147	DA	N1-C6-N6	11.48	125.49	118.60
1	AA	6875	DA	N1-C6-N6	11.48	125.49	118.60
55	Az	7	DA	N1-C6-N6	11.48	125.49	118.60
55	Az	33	DA	N1-C6-N6	11.48	125.49	118.60
80	BP	12	DA	N1-C6-N6	11.48	125.49	118.60
142	CY	5	DA	N1-C6-N6	11.48	125.49	118.60
6	A4	46	DA	N1-C6-N6	11.48	125.48	118.60
22	AM	47	DA	N1-C6-N6	11.48	125.49	118.60
37	Ac	28	DA	N1-C6-N6	11.48	125.49	118.60
66	BB	12	DA	N1-C6-N6	11.48	125.49	118.60
71	BG	16	DA	N1-C6-N6	11.48	125.49	118.60
45	Al	27	DA	N1-C6-N6	11.48	125.48	118.60
82	BR	38	DA	N1-C6-N6	11.48	125.49	118.60
129	CL	2	DA	N1-C6-N6	11.48	125.49	118.60
149	Cg	44	DA	N1-C6-N6	11.48	125.48	118.60
152	Cp	24	DA	N1-C6-N6	11.48	125.49	118.60
155	Cs	43	DA	N1-C6-N6	11.48	125.49	118.60
1	AA	370	DA	N1-C6-N6	11.47	125.48	118.60
1	AA	946	DA	N1-C6-N6	11.47	125.48	118.60
1	AA	1151	DA	N1-C6-N6	11.47	125.48	118.60
53	Ax	12	DA	N1-C6-N6	11.47	125.48	118.60
67	BC	10	DA	N1-C6-N6	11.47	125.48	118.60
69	BE	55	DA	N1-C6-N6	11.47	125.48	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
146	Cd	15	DA	N1-C6-N6	11.47	125.48	118.60
156	Ct	35	DA	N1-C6-N6	11.47	125.48	118.60
1	AA	2167	DA	N1-C6-N6	11.47	125.48	118.60
21	AL	43	DA	N1-C6-N6	11.47	125.48	118.60
62	B6	12	DA	N1-C6-N6	11.47	125.48	118.60
100	Bj	37	DA	N1-C6-N6	11.47	125.48	118.60
118	C8	13	DA	N1-C6-N6	11.47	125.48	118.60
157	Cu	34	DA	N1-C6-N6	11.47	125.48	118.60
160	Cx	2	DA	N1-C6-N6	11.47	125.48	118.60
1	AA	1346	DT	O3'-P-O5'	-11.47	82.20	104.00
1	AA	1616	DA	N1-C6-N6	11.47	125.48	118.60
1	AA	2381	DA	N1-C6-N6	11.47	125.48	118.60
40	Ag	47	DA	N1-C6-N6	11.47	125.48	118.60
92	Bb	23	DA	N1-C6-N6	11.47	125.48	118.60
43	Aj	37	DA	N1-C6-N6	11.47	125.48	118.60
57	B1	44	DA	N1-C6-N6	11.47	125.48	118.60
127	CJ	45	DA	N1-C6-N6	11.47	125.48	118.60
133	CP	4	DA	N1-C6-N6	11.47	125.48	118.60
137	CT	9	DA	N1-C6-N6	11.47	125.48	118.60
162	Cz	27	DA	N1-C6-N6	11.47	125.48	118.60
1	AA	783	DA	N1-C6-N6	11.47	125.48	118.60
1	AA	1038	DA	N1-C6-N6	11.47	125.48	118.60
1	AA	1239	DA	N1-C6-N6	11.47	125.48	118.60
1	AA	3691	DA	N1-C6-N6	11.47	125.48	118.60
1	AA	4264	DA	N1-C6-N6	11.47	125.48	118.60
1	AA	4564	DA	N1-C6-N6	11.47	125.48	118.60
1	AA	4945	DA	O4'-C4'-C3'	-11.47	99.12	106.00
1	AA	5524	DA	N1-C6-N6	11.47	125.48	118.60
79	BO	37	DA	N1-C6-N6	11.47	125.48	118.60
1	AA	1215	DA	N1-C6-N6	11.47	125.48	118.60
1	AA	1370	DA	N1-C6-N6	11.47	125.48	118.60
1	AA	2563	DA	N1-C6-N6	11.47	125.48	118.60
1	AA	6374	DA	N1-C6-N6	11.47	125.48	118.60
104	Bn	16	DA	N1-C6-N6	11.47	125.48	118.60
143	CZ	20	DA	N1-C6-N6	11.47	125.48	118.60
144	Cb	27	DA	N1-C6-N6	11.47	125.48	118.60
145	Cc	44	DA	N1-C6-N6	11.47	125.48	118.60
1	AA	194	DA	N1-C6-N6	11.46	125.48	118.60
1	AA	3946	DA	N1-C6-N6	11.46	125.48	118.60
1	AA	6017	DA	N1-C6-N6	11.46	125.48	118.60
1	AA	6516	DA	N1-C6-N6	11.46	125.48	118.60
1	AA	7150	DA	N1-C6-N6	11.46	125.48	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	A4	43	DA	N1-C6-N6	11.46	125.48	118.60
49	As	47	DA	N1-C6-N6	11.46	125.48	118.60
102	Bl	28	DA	N1-C6-N6	11.46	125.48	118.60
160	Cx	44	DA	N1-C6-N6	11.46	125.48	118.60
1	AA	4205	DA	N1-C6-N6	11.46	125.48	118.60
131	CN	32	DA	N1-C6-N6	11.46	125.48	118.60
1	AA	1030	DA	N1-C6-N6	11.46	125.48	118.60
1	AA	1627	DA	N1-C6-N6	11.46	125.48	118.60
1	AA	5852	DA	N1-C6-N6	11.46	125.48	118.60
1	AA	6025	DA	N1-C6-N6	11.46	125.48	118.60
6	A4	27	DA	N1-C6-N6	11.46	125.48	118.60
19	AJ	4	DA	N1-C6-N6	11.46	125.48	118.60
36	Ab	7	DA	N1-C6-N6	11.46	125.48	118.60
61	B5	1	DA	N1-C6-N6	11.46	125.48	118.60
57	B1	47	DA	N1-C6-N6	11.46	125.48	118.60
1	AA	589	DA	N1-C6-N6	11.46	125.48	118.60
1	AA	2137	DA	N1-C6-N6	11.46	125.47	118.60
1	AA	2978	DA	N1-C6-N6	11.46	125.47	118.60
1	AA	3978	DA	N1-C6-N6	11.46	125.47	118.60
1	AA	660	DA	N1-C6-N6	11.46	125.47	118.60
1	AA	5089	DA	N1-C6-N6	11.46	125.47	118.60
1	AA	5520	DA	N1-C6-N6	11.46	125.47	118.60
17	AH	43	DA	N1-C6-N6	11.46	125.48	118.60
30	AU	45	DA	N1-C6-N6	11.46	125.47	118.60
49	As	25	DA	N1-C6-N6	11.46	125.48	118.60
117	C7	6	DA	N1-C6-N6	11.46	125.47	118.60
86	BV	28	DA	N1-C6-N6	11.46	125.47	118.60
90	BZ	28	DA	N1-C6-N6	11.46	125.47	118.60
109	Bs	13	DA	N1-C6-N6	11.46	125.47	118.60
129	CL	48	DA	N1-C6-N6	11.46	125.47	118.60
131	CN	2	DA	N1-C6-N6	11.46	125.47	118.60
1	AA	1360	DA	N1-C6-N6	11.46	125.47	118.60
1	AA	2164	DA	N1-C6-N6	11.45	125.47	118.60
1	AA	2519	DA	N1-C6-N6	11.46	125.47	118.60
1	AA	3336	DA	N1-C6-N6	11.46	125.47	118.60
1	AA	4843	DA	N1-C6-N6	11.46	125.47	118.60
8	A6	12	DA	N1-C6-N6	11.46	125.47	118.60
1	AA	2955	DA	N1-C6-N6	11.45	125.47	118.60
1	AA	4736	DA	N1-C6-N6	11.45	125.47	118.60
1	AA	6805	DA	N1-C6-N6	11.46	125.47	118.60
2	A0	48	DA	N1-C6-N6	11.45	125.47	118.60
131	CN	35	DA	N1-C6-N6	11.45	125.47	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	208	DA	N1-C6-N6	11.45	125.47	118.60
1	AA	3187	DA	N1-C6-N6	11.45	125.47	118.60
1	AA	3973	DA	N1-C6-N6	11.45	125.47	118.60
71	BG	45	DA	N1-C6-N6	11.45	125.47	118.60
81	BQ	34	DA	N1-C6-N6	11.45	125.47	118.60
142	CY	8	DA	N1-C6-N6	11.45	125.47	118.60
1	AA	5913	DA	N1-C6-N6	11.45	125.47	118.60
61	B5	36	DA	N1-C6-N6	11.45	125.47	118.60
64	B8	10	DA	N1-C6-N6	11.45	125.47	118.60
74	BJ	53	DA	N1-C6-N6	11.45	125.47	118.60
106	Bp	7	DA	N1-C6-N6	11.45	125.47	118.60
131	CN	38	DA	N1-C6-N6	11.45	125.47	118.60
139	CV	23	DA	N1-C6-N6	11.45	125.47	118.60
161	Cy	1	DA	N1-C6-N6	11.45	125.47	118.60
1	AA	5274	DA	N1-C6-N6	11.45	125.47	118.60
1	AA	6217	DA	N1-C6-N6	11.45	125.47	118.60
36	Ab	9	DA	N1-C6-N6	11.45	125.47	118.60
51	Av	2	DA	N1-C6-N6	11.45	125.47	118.60
53	Ax	29	DA	N1-C6-N6	11.45	125.47	118.60
104	Bn	25	DA	N1-C6-N6	11.45	125.47	118.60
122	CE	32	DA	N1-C6-N6	11.45	125.47	118.60
147	Ce	47	DA	N1-C6-N6	11.45	125.47	118.60
1	AA	6131	DA	N1-C6-N6	11.45	125.47	118.60
24	AO	40	DA	N1-C6-N6	11.45	125.47	118.60
25	AP	18	DA	N1-C6-N6	11.45	125.47	118.60
76	BL	1	DA	N1-C6-N6	11.45	125.47	118.60
132	CO	9	DA	N1-C6-N6	11.45	125.47	118.60
154	Cr	36	DA	N1-C6-N6	11.45	125.47	118.60
1	AA	169	DA	N1-C6-N6	11.45	125.47	118.60
1	AA	314	DA	N1-C6-N6	11.45	125.47	118.60
1	AA	4083	DA	N1-C6-N6	11.45	125.47	118.60
1	AA	7064	DA	N1-C6-N6	11.45	125.47	118.60
6	A4	39	DA	N1-C6-N6	11.45	125.47	118.60
29	AT	11	DA	N1-C6-N6	11.45	125.47	118.60
93	Bc	29	DA	N1-C6-N6	11.45	125.47	118.60
143	CZ	41	DA	N1-C6-N6	11.45	125.47	118.60
1	AA	5489	DA	O4'-C4'-C3'	-11.44	99.13	106.00
90	BZ	4	DA	N1-C6-N6	11.44	125.47	118.60
100	Bj	39	DA	N1-C6-N6	11.45	125.47	118.60
150	Ch	38	DA	N1-C6-N6	11.44	125.47	118.60
156	Ct	23	DA	N1-C6-N6	11.45	125.47	118.60
1	AA	4196	DA	N1-C6-N6	11.44	125.47	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5576	DA	N1-C6-N6	11.44	125.47	118.60
1	AA	5645	DA	N1-C6-N6	11.44	125.47	118.60
1	AA	6680	DA	N1-C6-N6	11.44	125.47	118.60
4	A2	49	DA	N1-C6-N6	11.44	125.47	118.60
56	B0	36	DA	N1-C6-N6	11.44	125.47	118.60
103	Bm	25	DA	N1-C6-N6	11.44	125.46	118.60
135	CR	31	DA	N1-C6-N6	11.44	125.47	118.60
157	Cu	16	DA	N1-C6-N6	11.44	125.46	118.60
1	AA	395	DA	N1-C6-N6	11.44	125.46	118.60
1	AA	1180	DA	N1-C6-N6	11.44	125.46	118.60
1	AA	2357	DA	N1-C6-N6	11.44	125.46	118.60
1	AA	3188	DA	N1-C6-N6	11.44	125.46	118.60
67	BC	15	DA	N1-C6-N6	11.44	125.46	118.60
1	AA	1571	DA	N1-C6-N6	11.44	125.46	118.60
1	AA	5445	DA	N1-C6-N6	11.44	125.46	118.60
1	AA	6023	DA	N1-C6-N6	11.44	125.46	118.60
43	Aj	59	DA	N1-C6-N6	11.44	125.46	118.60
71	BG	29	DA	N1-C6-N6	11.44	125.46	118.60
126	CI	18	DA	N1-C6-N6	11.44	125.46	118.60
154	Cr	4	DA	P-O3'-C3'	11.44	133.43	119.70
161	Cy	55	DA	N1-C6-N6	11.44	125.46	118.60
1	AA	988	DA	N1-C6-N6	11.44	125.46	118.60
1	AA	1069	DA	N1-C6-N6	11.44	125.46	118.60
1	AA	3113	DA	N1-C6-N6	11.44	125.46	118.60
1	AA	4234	DA	N1-C6-N6	11.44	125.46	118.60
102	Bl	30	DA	N1-C6-N6	11.44	125.46	118.60
129	CL	41	DA	N1-C6-N6	11.44	125.46	118.60
1	AA	254	DA	N1-C6-N6	11.44	125.46	118.60
1	AA	958	DA	N1-C6-N6	11.44	125.46	118.60
1	AA	1343	DA	N1-C6-N6	11.44	125.46	118.60
1	AA	3938	DA	N1-C6-N6	11.44	125.46	118.60
1	AA	5580	DA	N1-C6-N6	11.44	125.46	118.60
69	BE	6	DA	N1-C6-N6	11.44	125.46	118.60
112	C2	1	DA	N1-C6-N6	11.44	125.46	118.60
112	C2	42	DA	N1-C6-N6	11.44	125.46	118.60
117	C7	24	DA	N1-C6-N6	11.44	125.46	118.60
129	CL	1	DA	N1-C6-N6	11.44	125.46	118.60
143	CZ	47	DA	N1-C6-N6	11.44	125.46	118.60
50	Au	42	DA	N1-C6-N6	11.43	125.46	118.60
76	BL	38	DA	N1-C6-N6	11.43	125.46	118.60
136	CS	39	DA	N1-C6-N6	11.43	125.46	118.60
1	AA	37	DA	N1-C6-N6	11.43	125.46	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1128	DA	N1-C6-N6	11.43	125.46	118.60
1	AA	3949	DA	N1-C6-N6	11.43	125.46	118.60
1	AA	4671	DA	N1-C6-N6	11.43	125.46	118.60
1	AA	7025	DA	N1-C6-N6	11.43	125.46	118.60
13	AD	43	DA	N1-C6-N6	11.43	125.46	118.60
14	AE	41	DA	N1-C6-N6	11.43	125.46	118.60
67	BC	28	DA	N1-C6-N6	11.43	125.46	118.60
113	C3	11	DA	N1-C6-N6	11.43	125.46	118.60
130	CM	13	DA	N1-C6-N6	11.43	125.46	118.60
144	Cb	43	DA	N1-C6-N6	11.43	125.46	118.60
1	AA	3772	DA	N1-C6-N6	11.43	125.46	118.60
1	AA	4129	DA	N1-C6-N6	11.43	125.46	118.60
1	AA	5268	DA	N1-C6-N6	11.43	125.46	118.60
13	AD	33	DA	N1-C6-N6	11.43	125.46	118.60
61	B5	23	DA	N1-C6-N6	11.43	125.46	118.60
77	BM	2	DA	N1-C6-N6	11.43	125.46	118.60
103	Bm	20	DA	N1-C6-N6	11.43	125.46	118.60
137	CT	25	DA	N1-C6-N6	11.43	125.46	118.60
1	AA	6495	DA	N1-C6-N6	11.43	125.46	118.60
1	AA	6800	DA	N1-C6-N6	11.43	125.46	118.60
1	AA	6869	DA	N1-C6-N6	11.43	125.46	118.60
9	A7	12	DA	N1-C6-N6	11.43	125.46	118.60
28	AS	41	DA	N1-C6-N6	11.43	125.46	118.60
57	B1	57	DA	N1-C6-N6	11.43	125.46	118.60
62	B6	35	DA	N1-C6-N6	11.43	125.46	118.60
96	Bf	16	DA	N1-C6-N6	11.43	125.46	118.60
128	CK	27	DA	N1-C6-N6	11.43	125.46	118.60
132	CO	10	DA	N1-C6-N6	11.43	125.46	118.60
138	CU	27	DA	N1-C6-N6	11.43	125.46	118.60
144	Cb	36	DA	N1-C6-N6	11.43	125.46	118.60
145	Cc	22	DA	N1-C6-N6	11.43	125.46	118.60
1	AA	1110	DA	N1-C6-N6	11.43	125.46	118.60
1	AA	3211	DA	N1-C6-N6	11.43	125.46	118.60
54	Ay	30	DA	N1-C6-N6	11.43	125.46	118.60
59	B3	33	DA	N1-C6-N6	11.43	125.46	118.60
1	AA	3447	DA	N1-C6-N6	11.43	125.45	118.60
1	AA	5031	DA	N1-C6-N6	11.43	125.45	118.60
1	AA	7024	DA	N1-C6-N6	11.43	125.45	118.60
17	AH	47	DA	N1-C6-N6	11.43	125.45	118.60
102	Bl	32	DA	N1-C6-N6	11.43	125.45	118.60
120	CC	16	DA	N1-C6-N6	11.43	125.45	118.60
162	Cz	3	DA	N1-C6-N6	11.43	125.46	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	602	DA	N1-C6-N6	11.42	125.45	118.60
1	AA	3757	DA	N1-C6-N6	11.42	125.45	118.60
80	BP	8	DA	N1-C6-N6	11.42	125.45	118.60
1	AA	444	DA	N1-C6-N6	11.42	125.45	118.60
1	AA	4823	DA	N1-C6-N6	11.42	125.45	118.60
1	AA	5907	DA	N1-C6-N6	11.42	125.45	118.60
12	AC	36	DA	N1-C6-N6	11.42	125.45	118.60
15	AF	26	DA	N1-C6-N6	11.42	125.45	118.60
26	AQ	8	DA	N1-C6-N6	11.42	125.45	118.60
60	B4	28	DA	N1-C6-N6	11.42	125.45	118.60
67	BC	12	DA	N1-C6-N6	11.42	125.45	118.60
89	BY	27	DA	N1-C6-N6	11.42	125.45	118.60
106	Bp	22	DA	N1-C6-N6	11.42	125.45	118.60
1	AA	752	DA	N1-C6-N6	11.42	125.45	118.60
1	AA	3104	DA	N1-C6-N6	11.42	125.45	118.60
7	A5	21	DA	N1-C6-N6	11.42	125.45	118.60
1	AA	5755	DA	N1-C6-N6	11.42	125.45	118.60
1	AA	6269	DA	N1-C6-N6	11.42	125.45	118.60
3	A1	38	DA	N1-C6-N6	11.42	125.45	118.60
6	A4	1	DA	N1-C6-N6	11.42	125.45	118.60
145	Cc	19	DA	N1-C6-N6	11.42	125.45	118.60
125	CH	21	DA	N1-C6-N6	11.42	125.45	118.60
152	Cp	17	DA	N1-C6-N6	11.42	125.45	118.60
159	Cw	49	DA	N1-C6-N6	11.42	125.45	118.60
1	AA	612	DA	N1-C6-N6	11.42	125.45	118.60
1	AA	650	DA	N1-C6-N6	11.42	125.45	118.60
1	AA	1064	DA	N1-C6-N6	11.42	125.45	118.60
1	AA	1611	DA	N1-C6-N6	11.42	125.45	118.60
33	AX	18	DA	N1-C6-N6	11.42	125.45	118.60
1	AA	1755	DA	N1-C6-N6	11.42	125.45	118.60
1	AA	5166	DA	N1-C6-N6	11.42	125.45	118.60
1	AA	5525	DA	N1-C6-N6	11.42	125.45	118.60
1	AA	6315	DA	N1-C6-N6	11.42	125.45	118.60
1	AA	6779	DA	N1-C6-N6	11.42	125.45	118.60
19	AJ	19	DA	N1-C6-N6	11.42	125.45	118.60
97	Bg	12	DA	N1-C6-N6	11.42	125.45	118.60
126	CI	19	DA	N1-C6-N6	11.42	125.45	118.60
141	CX	47	DA	N1-C6-N6	11.42	125.45	118.60
1	AA	379	DA	N1-C6-N6	11.41	125.45	118.60
1	AA	5505	DA	N1-C6-N6	11.41	125.45	118.60
6	A4	6	DA	N1-C6-N6	11.41	125.45	118.60
61	B5	39	DA	N1-C6-N6	11.41	125.45	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
66	BB	38	DA	N1-C6-N6	11.41	125.45	118.60
75	BK	41	DA	N1-C6-N6	11.41	125.45	118.60
1	AA	482	DA	N1-C6-N6	11.41	125.45	118.60
37	Ac	32	DA	N1-C6-N6	11.41	125.45	118.60
93	Bc	30	DA	N1-C6-N6	11.41	125.45	118.60
1	AA	3453	DA	N1-C6-N6	11.41	125.45	118.60
1	AA	4652	DA	N1-C6-N6	11.41	125.45	118.60
50	Au	43	DA	N1-C6-N6	11.41	125.45	118.60
144	Cb	18	DA	N1-C6-N6	11.41	125.45	118.60
61	B5	2	DA	N1-C6-N6	11.41	125.45	118.60
66	BB	20	DA	N1-C6-N6	11.41	125.45	118.60
147	Ce	48	DA	N1-C6-N6	11.41	125.45	118.60
107	Bq	47	DA	N1-C6-N6	11.41	125.45	118.60
1	AA	494	DA	N1-C6-N6	11.41	125.45	118.60
1	AA	1531	DA	N1-C6-N6	11.41	125.45	118.60
154	Cr	44	DA	N1-C6-N6	11.41	125.45	118.60
1	AA	2427	DA	N1-C6-N6	11.41	125.44	118.60
1	AA	3496	DA	N1-C6-N6	11.41	125.45	118.60
1	AA	3666	DA	N1-C6-N6	11.41	125.45	118.60
1	AA	3781	DA	N1-C6-N6	11.41	125.45	118.60
1	AA	4975	DA	N1-C6-N6	11.41	125.45	118.60
32	AW	47	DA	N1-C6-N6	11.41	125.45	118.60
39	Af	36	DA	N1-C6-N6	11.41	125.45	118.60
54	Ay	38	DA	N1-C6-N6	11.41	125.45	118.60
58	B2	33	DA	N1-C6-N6	11.41	125.45	118.60
98	Bh	18	DA	N1-C6-N6	11.41	125.45	118.60
100	Bj	5	DA	N1-C6-N6	11.41	125.45	118.60
112	C2	54	DA	N1-C6-N6	11.41	125.45	118.60
114	C4	57	DA	N1-C6-N6	11.41	125.45	118.60
1	AA	1946	DA	N1-C6-N6	11.41	125.44	118.60
1	AA	2224	DA	N1-C6-N6	11.41	125.44	118.60
1	AA	3217	DA	N1-C6-N6	11.41	125.44	118.60
1	AA	4078	DA	N1-C6-N6	11.41	125.44	118.60
1	AA	4084	DA	N1-C6-N6	11.41	125.44	118.60
1	AA	6758	DA	N1-C6-N6	11.41	125.44	118.60
19	AJ	50	DA	N1-C6-N6	11.41	125.44	118.60
31	AV	5	DA	N1-C6-N6	11.41	125.44	118.60
157	Cu	43	DA	N1-C6-N6	11.41	125.44	118.60
39	Af	23	DA	N1-C6-N6	11.41	125.44	118.60
47	An	22	DA	N1-C6-N6	11.41	125.44	118.60
57	B1	12	DA	N1-C6-N6	11.41	125.44	118.60
126	CI	42	DA	N1-C6-N6	11.41	125.44	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
142	CY	15	DA	N1-C6-N6	11.41	125.44	118.60
1	AA	1349	DA	N1-C6-N6	11.40	125.44	118.60
1	AA	4311	DA	N1-C6-N6	11.40	125.44	118.60
1	AA	3884	DA	N1-C6-N6	11.40	125.44	118.60
1	AA	4473	DA	N1-C6-N6	11.40	125.44	118.60
1	AA	5134	DA	N1-C6-N6	11.40	125.44	118.60
1	AA	6856	DG	O4'-C4'-C3'	-11.40	99.16	106.00
23	AN	11	DA	N1-C6-N6	11.40	125.44	118.60
29	AT	14	DA	N1-C6-N6	11.40	125.44	118.60
98	Bh	48	DA	N1-C6-N6	11.40	125.44	118.60
140	CW	22	DA	N1-C6-N6	11.40	125.44	118.60
162	Cz	28	DA	N1-C6-N6	11.40	125.44	118.60
47	An	27	DA	N1-C6-N6	11.40	125.44	118.60
73	BI	14	DA	N1-C6-N6	11.40	125.44	118.60
134	CQ	20	DA	N1-C6-N6	11.40	125.44	118.60
1	AA	7046	DA	N1-C6-N6	11.40	125.44	118.60
15	AF	15	DA	N1-C6-N6	11.40	125.44	118.60
73	BI	23	DA	N1-C6-N6	11.40	125.44	118.60
79	BO	21	DA	N1-C6-N6	11.40	125.44	118.60
91	Ba	23	DA	N1-C6-N6	11.40	125.44	118.60
152	Cp	39	DA	N1-C6-N6	11.40	125.44	118.60
100	Bj	33	DA	N1-C6-N6	11.40	125.44	118.60
157	Cu	47	DA	N1-C6-N6	11.40	125.44	118.60
161	Cy	47	DA	N1-C6-N6	11.40	125.44	118.60
1	AA	802	DA	N1-C6-N6	11.40	125.44	118.60
1	AA	2138	DA	N1-C6-N6	11.40	125.44	118.60
1	AA	2345	DA	N1-C6-N6	11.40	125.44	118.60
1	AA	4162	DA	N1-C6-N6	11.40	125.44	118.60
1	AA	4595	DA	N1-C6-N6	11.40	125.44	118.60
1	AA	6748	DA	N1-C6-N6	11.40	125.44	118.60
156	Ct	22	DA	N1-C6-N6	11.40	125.44	118.60
1	AA	3269	DA	N1-C6-N6	11.40	125.44	118.60
1	AA	6202	DA	N1-C6-N6	11.40	125.44	118.60
6	A4	3	DA	N1-C6-N6	11.40	125.44	118.60
50	Au	28	DA	N1-C6-N6	11.40	125.44	118.60
58	B2	36	DA	N1-C6-N6	11.40	125.44	118.60
66	BB	34	DA	N1-C6-N6	11.40	125.44	118.60
69	BE	61	DA	N1-C6-N6	11.40	125.44	118.60
71	BG	38	DA	N1-C6-N6	11.40	125.44	118.60
1	AA	3490	DA	N1-C6-N6	11.40	125.44	118.60
1	AA	3979	DA	N1-C6-N6	11.40	125.44	118.60
1	AA	6481	DA	N1-C6-N6	11.40	125.44	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6915	DA	N1-C6-N6	11.40	125.44	118.60
12	AC	1	DA	N1-C6-N6	11.40	125.44	118.60
14	AE	46	DA	N1-C6-N6	11.40	125.44	118.60
56	B0	38	DA	N1-C6-N6	11.40	125.44	118.60
99	Bi	4	DA	N1-C6-N6	11.40	125.44	118.60
29	AT	1	DA	N1-C6-N6	11.40	125.44	118.60
78	BN	21	DA	N1-C6-N6	11.40	125.44	118.60
104	Bn	51	DA	N1-C6-N6	11.40	125.44	118.60
111	C1	9	DA	N1-C6-N6	11.40	125.44	118.60
148	Cf	25	DA	N1-C6-N6	11.40	125.44	118.60
1	AA	3925	DA	N1-C6-N6	11.39	125.44	118.60
1	AA	3986	DA	N1-C6-N6	11.39	125.44	118.60
157	Cu	46	DG	O4'-C4'-C3'	-11.39	99.16	106.00
1	AA	708	DA	N1-C6-N6	11.39	125.44	118.60
1	AA	4748	DA	N1-C6-N6	11.39	125.44	118.60
1	AA	5610	DA	N1-C6-N6	11.39	125.44	118.60
1	AA	6760	DA	N1-C6-N6	11.39	125.44	118.60
14	AE	43	DA	N1-C6-N6	11.39	125.44	118.60
19	AJ	1	DA	N1-C6-N6	11.39	125.44	118.60
38	Ad	30	DA	O4'-C4'-C3'	-11.39	99.16	106.00
111	C1	10	DA	N1-C6-N6	11.39	125.44	118.60
131	CN	36	DA	N1-C6-N6	11.39	125.44	118.60
146	Cd	19	DA	N1-C6-N6	11.39	125.44	118.60
130	CM	51	DA	N1-C6-N6	11.39	125.44	118.60
1	AA	274	DA	N1-C6-N6	11.39	125.44	118.60
1	AA	2617	DA	N1-C6-N6	11.39	125.44	118.60
1	AA	4710	DA	N1-C6-N6	11.39	125.44	118.60
1	AA	6210	DA	N1-C6-N6	11.39	125.43	118.60
9	A7	37	DA	N1-C6-N6	11.39	125.43	118.60
17	AH	31	DA	N1-C6-N6	11.39	125.43	118.60
42	Ai	45	DA	N1-C6-N6	11.39	125.44	118.60
60	B4	10	DA	N1-C6-N6	11.39	125.44	118.60
75	BK	35	DA	N1-C6-N6	11.39	125.44	118.60
86	BV	43	DA	N1-C6-N6	11.39	125.44	118.60
97	Bg	17	DA	N1-C6-N6	11.39	125.44	118.60
77	BM	47	DA	N1-C6-N6	11.39	125.43	118.60
94	Bd	50	DA	N1-C6-N6	11.39	125.43	118.60
114	C4	6	DA	N1-C6-N6	11.39	125.43	118.60
146	Cd	20	DA	N1-C6-N6	11.39	125.44	118.60
1	AA	226	DA	N1-C6-N6	11.39	125.43	118.60
1	AA	867	DA	N1-C6-N6	11.39	125.43	118.60
1	AA	3364	DA	N1-C6-N6	11.39	125.43	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	4448	DA	N1-C6-N6	11.39	125.43	118.60
50	Au	23	DA	N1-C6-N6	11.39	125.43	118.60
1	AA	4658	DA	N1-C6-N6	11.39	125.43	118.60
1	AA	5933	DA	N1-C6-N6	11.39	125.43	118.60
13	AD	42	DA	N1-C6-N6	11.39	125.43	118.60
29	AT	35	DA	N1-C6-N6	11.39	125.43	118.60
88	BX	23	DA	N1-C6-N6	11.39	125.43	118.60
44	Ak	22	DA	N1-C6-N6	11.39	125.43	118.60
117	C7	49	DA	N1-C6-N6	11.39	125.43	118.60
133	CP	26	DA	N1-C6-N6	11.39	125.43	118.60
138	CU	24	DA	N1-C6-N6	11.39	125.43	118.60
143	CZ	21	DA	N1-C6-N6	11.39	125.43	118.60
146	Cd	18	DA	N1-C6-N6	11.39	125.43	118.60
1	AA	6793	DA	N1-C6-N6	11.39	125.43	118.60
1	AA	953	DA	N1-C6-N6	11.38	125.43	118.60
1	AA	4030	DA	N1-C6-N6	11.38	125.43	118.60
1	AA	5680	DA	N1-C6-N6	11.39	125.43	118.60
11	AB	36	DA	N1-C6-N6	11.39	125.43	118.60
113	C3	17	DA	N1-C6-N6	11.38	125.43	118.60
17	AH	42	DA	N1-C6-N6	11.38	125.43	118.60
1	AA	685	DA	N1-C6-N6	11.38	125.43	118.60
1	AA	2281	DA	N1-C6-N6	11.38	125.43	118.60
3	A1	6	DA	N1-C6-N6	11.38	125.43	118.60
40	Ag	7	DA	P-O3'-C3'	11.38	133.36	119.70
60	B4	15	DA	N1-C6-N6	11.38	125.43	118.60
80	BP	7	DA	N1-C6-N6	11.38	125.43	118.60
106	Bp	43	DA	N1-C6-N6	11.38	125.43	118.60
121	CD	1	DA	N1-C6-N6	11.38	125.43	118.60
127	CJ	22	DA	N1-C6-N6	11.38	125.43	118.60
160	Cx	1	DA	N1-C6-N6	11.38	125.43	118.60
1	AA	2051	DA	N1-C6-N6	11.38	125.43	118.60
156	Ct	17	DA	N1-C6-N6	11.38	125.43	118.60
1	AA	4264	DA	P-O3'-C3'	11.38	133.35	119.70
35	AZ	1	DA	N1-C6-N6	11.38	125.43	118.60
62	B6	8	DA	N1-C6-N6	11.38	125.43	118.60
71	BG	36	DA	N1-C6-N6	11.38	125.43	118.60
146	Cd	6	DA	N1-C6-N6	11.38	125.43	118.60
155	Cs	17	DA	N1-C6-N6	11.38	125.43	118.60
156	Ct	36	DA	N1-C6-N6	11.38	125.43	118.60
158	Cv	18	DA	N1-C6-N6	11.38	125.43	118.60
159	Cw	53	DA	N1-C6-N6	11.38	125.43	118.60
37	Ac	36	DA	N1-C6-N6	11.38	125.43	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
112	C2	45	DA	N1-C6-N6	11.38	125.42	118.60
124	CG	31	DA	N1-C6-N6	11.38	125.42	118.60
1	AA	5325	DA	N1-C6-N6	11.37	125.42	118.60
1	AA	6010	DA	N1-C6-N6	11.37	125.42	118.60
16	AG	38	DA	N1-C6-N6	11.37	125.42	118.60
23	AN	15	DA	N1-C6-N6	11.37	125.42	118.60
37	Ac	34	DA	N1-C6-N6	11.37	125.42	118.60
81	BQ	19	DA	N1-C6-N6	11.37	125.42	118.60
90	BZ	38	DA	N1-C6-N6	11.38	125.42	118.60
138	CU	19	DA	N1-C6-N6	11.37	125.42	118.60
1	AA	331	DA	P-O3'-C3'	11.37	133.35	119.70
1	AA	3002	DA	N1-C6-N6	11.37	125.42	118.60
65	B9	21	DA	N1-C6-N6	11.37	125.42	118.60
1	AA	2231	DA	N1-C6-N6	11.37	125.42	118.60
1	AA	2351	DA	N1-C6-N6	11.37	125.42	118.60
1	AA	3617	DA	N1-C6-N6	11.37	125.42	118.60
1	AA	6644	DA	N1-C6-N6	11.37	125.42	118.60
2	A0	29	DA	N1-C6-N6	11.37	125.42	118.60
16	AG	15	DA	N1-C6-N6	11.37	125.42	118.60
19	AJ	49	DA	N1-C6-N6	11.37	125.42	118.60
30	AU	2	DA	N1-C6-N6	11.37	125.42	118.60
96	Bf	36	DA	N1-C6-N6	11.37	125.42	118.60
136	CS	32	DA	N1-C6-N6	11.37	125.42	118.60
139	CV	32	DA	N1-C6-N6	11.37	125.42	118.60
155	Cs	25	DA	N1-C6-N6	11.37	125.42	118.60
1	AA	107	DA	N1-C6-N6	11.37	125.42	118.60
1	AA	890	DA	N1-C6-N6	11.37	125.42	118.60
1	AA	4761	DA	N1-C6-N6	11.37	125.42	118.60
1	AA	6653	DA	N1-C6-N6	11.37	125.42	118.60
1	AA	5353	DA	N1-C6-N6	11.37	125.42	118.60
1	AA	5811	DG	N1-C6-O6	11.37	126.72	119.90
65	B9	4	DA	N1-C6-N6	11.37	125.42	118.60
72	BH	22	DA	N1-C6-N6	11.37	125.42	118.60
117	C7	52	DA	N1-C6-N6	11.37	125.42	118.60
111	C1	34	DA	N1-C6-N6	11.37	125.42	118.60
145	Cc	61	DA	N1-C6-N6	11.37	125.42	118.60
151	Ck	27	DA	N1-C6-N6	11.37	125.42	118.60
145	Cc	47	DA	N1-C6-N6	11.37	125.42	118.60
1	AA	1176	DA	N1-C6-N6	11.37	125.42	118.60
1	AA	1308	DA	N1-C6-N6	11.37	125.42	118.60
1	AA	3435	DA	N1-C6-N6	11.37	125.42	118.60
27	AR	34	DA	N1-C6-N6	11.37	125.42	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2226	DA	N1-C6-N6	11.36	125.42	118.60
1	AA	6320	DA	N1-C6-N6	11.36	125.42	118.60
1	AA	7036	DT	O4'-C4'-C3'	-11.37	99.18	106.00
8	A6	20	DA	N1-C6-N6	11.36	125.42	118.60
12	AC	17	DA	N1-C6-N6	11.36	125.42	118.60
61	B5	32	DA	N1-C6-N6	11.37	125.42	118.60
105	Bo	61	DA	N1-C6-N6	11.37	125.42	118.60
120	CC	24	DA	N1-C6-N6	11.37	125.42	118.60
124	CG	40	DA	N1-C6-N6	11.36	125.42	118.60
140	CW	20	DA	N1-C6-N6	11.36	125.42	118.60
152	Cp	10	DA	N1-C6-N6	11.37	125.42	118.60
1	AA	989	DA	N1-C6-N6	11.36	125.42	118.60
1	AA	1657	DA	N1-C6-N6	11.36	125.42	118.60
1	AA	4679	DA	N1-C6-N6	11.36	125.42	118.60
1	AA	4752	DA	N1-C6-N6	11.36	125.42	118.60
1	AA	4834	DA	N1-C6-N6	11.36	125.42	118.60
1	AA	5890	DA	N1-C6-N6	11.36	125.42	118.60
4	A2	28	DA	N1-C6-N6	11.36	125.42	118.60
1	AA	1848	DA	N1-C6-N6	11.36	125.42	118.60
1	AA	3758	DA	N1-C6-N6	11.36	125.42	118.60
74	BJ	31	DA	N1-C6-N6	11.36	125.42	118.60
89	BY	21	DA	N1-C6-N6	11.36	125.42	118.60
159	Cw	47	DA	N1-C6-N6	11.36	125.42	118.60
1	AA	736	DA	N1-C6-N6	11.36	125.42	118.60
1	AA	1246	DA	N1-C6-N6	11.36	125.42	118.60
1	AA	5941	DA	N1-C6-N6	11.36	125.42	118.60
16	AG	28	DA	N1-C6-N6	11.36	125.42	118.60
49	As	43	DA	N1-C6-N6	11.36	125.42	118.60
67	BC	24	DA	N1-C6-N6	11.36	125.42	118.60
75	BK	34	DA	N1-C6-N6	11.36	125.42	118.60
119	CB	7	DA	N1-C6-N6	11.36	125.42	118.60
1	AA	3194	DA	N1-C6-N6	11.36	125.41	118.60
1	AA	5035	DA	N1-C6-N6	11.36	125.41	118.60
12	AC	14	DA	N1-C6-N6	11.36	125.41	118.60
13	AD	39	DA	N1-C6-N6	11.36	125.41	118.60
25	AP	27	DA	N1-C6-N6	11.36	125.41	118.60
29	AT	48	DA	N1-C6-N6	11.36	125.41	118.60
32	AW	42	DA	N1-C6-N6	11.36	125.41	118.60
53	Ax	25	DA	N1-C6-N6	11.36	125.41	118.60
83	BS	41	DA	N1-C6-N6	11.36	125.41	118.60
90	BZ	26	DA	N1-C6-N6	11.36	125.41	118.60
99	Bi	16	DA	N1-C6-N6	11.36	125.41	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
143	CZ	28	DA	N1-C6-N6	11.36	125.41	118.60
8	A6	26	DA	N1-C6-N6	11.35	125.41	118.60
1	AA	65	DA	N1-C6-N6	11.35	125.41	118.60
1	AA	5375	DA	N1-C6-N6	11.35	125.41	118.60
1	AA	6327	DA	N1-C6-N6	11.35	125.41	118.60
19	AJ	35	DA	N1-C6-N6	11.35	125.41	118.60
36	Ab	42	DA	N1-C6-N6	11.35	125.41	118.60
111	C1	8	DA	N1-C6-N6	11.35	125.41	118.60
2	A0	49	DA	N1-C6-N6	11.35	125.41	118.60
6	A4	44	DA	N1-C6-N6	11.35	125.41	118.60
16	AG	2	DA	N1-C6-N6	11.35	125.41	118.60
25	AP	38	DA	N1-C6-N6	11.35	125.41	118.60
55	Az	32	DA	N1-C6-N6	11.35	125.41	118.60
62	B6	3	DA	N1-C6-N6	11.35	125.41	118.60
74	BJ	12	DA	N1-C6-N6	11.35	125.41	118.60
152	Cp	16	DA	N1-C6-N6	11.35	125.41	118.60
69	BE	56	DA	N1-C6-N6	11.35	125.41	118.60
120	CC	15	DA	N1-C6-N6	11.35	125.41	118.60
149	Cg	34	DA	N1-C6-N6	11.35	125.41	118.60
63	B7	29	DA	N1-C6-N6	11.35	125.41	118.60
1	AA	651	DA	N1-C6-N6	11.35	125.41	118.60
1	AA	1744	DA	N1-C6-N6	11.35	125.41	118.60
1	AA	2205	DA	N1-C6-N6	11.35	125.41	118.60
1	AA	2338	DA	N1-C6-N6	11.35	125.41	118.60
1	AA	3174	DA	N1-C6-N6	11.35	125.41	118.60
131	CN	41	DA	N1-C6-N6	11.35	125.41	118.60
133	CP	5	DA	N1-C6-N6	11.35	125.41	118.60
1	AA	3634	DA	N1-C6-N6	11.35	125.41	118.60
1	AA	5414	DA	N1-C6-N6	11.35	125.41	118.60
1	AA	5891	DA	N1-C6-N6	11.35	125.41	118.60
115	C5	12	DA	N1-C6-N6	11.35	125.41	118.60
1	AA	2343	DA	N1-C6-N6	11.35	125.41	118.60
1	AA	6601	DA	N1-C6-N6	11.35	125.41	118.60
54	Ay	36	DA	N1-C6-N6	11.35	125.41	118.60
60	B4	39	DA	N1-C6-N6	11.35	125.41	118.60
66	BB	25	DA	N1-C6-N6	11.35	125.41	118.60
115	C5	17	DA	N1-C6-N6	11.35	125.41	118.60
134	CQ	22	DA	N1-C6-N6	11.35	125.41	118.60
136	CS	7	DA	N1-C6-N6	11.35	125.41	118.60
138	CU	17	DA	N1-C6-N6	11.35	125.41	118.60
1	AA	458	DA	N1-C6-N6	11.34	125.41	118.60
1	AA	1219	DA	N1-C6-N6	11.34	125.41	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	4317	DA	N1-C6-N6	11.34	125.41	118.60
1	AA	1386	DA	N1-C6-N6	11.34	125.41	118.60
1	AA	3212	DA	N1-C6-N6	11.34	125.41	118.60
42	Ai	36	DA	N1-C6-N6	11.34	125.41	118.60
51	Av	32	DA	N1-C6-N6	11.34	125.41	118.60
65	B9	3	DA	N1-C6-N6	11.34	125.41	118.60
68	BD	29	DA	N1-C6-N6	11.34	125.41	118.60
101	Bk	65	DA	N1-C6-N6	11.34	125.41	118.60
111	C1	30	DA	N1-C6-N6	11.34	125.41	118.60
1	AA	3976	DA	N1-C6-N6	11.34	125.40	118.60
1	AA	6599	DA	N1-C6-N6	11.34	125.40	118.60
26	AQ	44	DA	N1-C6-N6	11.34	125.41	118.60
28	AS	31	DA	N1-C6-N6	11.34	125.40	118.60
30	AU	9	DA	N1-C6-N6	11.34	125.41	118.60
100	Bj	34	DA	N1-C6-N6	11.34	125.41	118.60
55	Az	1	DA	N1-C6-N6	11.34	125.40	118.60
69	BE	52	DA	N1-C6-N6	11.34	125.40	118.60
83	BS	42	DA	N1-C6-N6	11.34	125.40	118.60
105	Bo	6	DA	N1-C6-N6	11.34	125.40	118.60
1	AA	3136	DA	N1-C6-N6	11.34	125.40	118.60
103	Bm	46	DA	N1-C6-N6	11.34	125.40	118.60
117	C7	30	DA	N1-C6-N6	11.34	125.40	118.60
1	AA	588	DA	N1-C6-N6	11.34	125.40	118.60
1	AA	762	DA	N1-C6-N6	11.34	125.40	118.60
1	AA	1951	DA	N1-C6-N6	11.34	125.40	118.60
6	A4	29	DA	N1-C6-N6	11.34	125.40	118.60
37	Ac	27	DA	N1-C6-N6	11.34	125.40	118.60
50	Au	20	DA	N1-C6-N6	11.34	125.40	118.60
134	CQ	23	DA	N1-C6-N6	11.34	125.40	118.60
148	Cf	12	DA	N1-C6-N6	11.34	125.40	118.60
161	Cy	50	DA	N1-C6-N6	11.34	125.40	118.60
1	AA	5545	DA	N1-C6-N6	11.34	125.40	118.60
55	Az	45	DA	N1-C6-N6	11.34	125.40	118.60
56	B0	11	DA	N1-C6-N6	11.34	125.40	118.60
58	B2	23	DA	N1-C6-N6	11.34	125.40	118.60
81	BQ	44	DA	N1-C6-N6	11.34	125.40	118.60
86	BV	23	DA	N1-C6-N6	11.34	125.40	118.60
124	CG	6	DA	N1-C6-N6	11.34	125.40	118.60
2	A0	8	DA	N1-C6-N6	11.33	125.40	118.60
51	Av	9	DA	N1-C6-N6	11.33	125.40	118.60
146	Cd	2	DA	N1-C6-N6	11.33	125.40	118.60
1	AA	257	DA	N1-C6-N6	11.33	125.40	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2400	DA	N1-C6-N6	11.33	125.40	118.60
1	AA	6133	DA	N1-C6-N6	11.33	125.40	118.60
1	AA	6808	DA	N1-C6-N6	11.33	125.40	118.60
1	AA	7028	DG	O4'-C4'-C3'	-11.33	99.20	106.00
91	Ba	43	DA	N1-C6-N6	11.33	125.40	118.60
1	AA	329	DA	N1-C6-N6	11.33	125.40	118.60
1	AA	3706	DA	N1-C6-N6	11.33	125.40	118.60
1	AA	5674	DA	N1-C6-N6	11.33	125.40	118.60
75	BK	36	DA	N1-C6-N6	11.33	125.40	118.60
24	AO	41	DA	N1-C6-N6	11.33	125.40	118.60
114	C4	53	DA	N1-C6-N6	11.33	125.40	118.60
1	AA	476	DA	N1-C6-N6	11.33	125.40	118.60
1	AA	2312	DA	N1-C6-N6	11.33	125.40	118.60
1	AA	4099	DA	N1-C6-N6	11.33	125.40	118.60
1	AA	920	DA	N1-C6-N6	11.33	125.40	118.60
1	AA	4594	DA	N1-C6-N6	11.33	125.40	118.60
1	AA	6852	DA	N1-C6-N6	11.33	125.40	118.60
1	AA	4749	DA	N1-C6-N6	11.33	125.39	118.60
12	AC	13	DA	N1-C6-N6	11.33	125.40	118.60
41	Ah	2	DA	N1-C6-N6	11.33	125.40	118.60
109	Bs	39	DA	N1-C6-N6	11.33	125.40	118.60
70	BF	14	DA	N1-C6-N6	11.33	125.40	118.60
88	BX	11	DA	N1-C6-N6	11.33	125.40	118.60
159	Cw	45	DA	N1-C6-N6	11.33	125.40	118.60
1	AA	888	DA	N1-C6-N6	11.32	125.39	118.60
50	Au	40	DA	N1-C6-N6	11.32	125.39	118.60
1	AA	202	DA	N1-C6-N6	11.32	125.39	118.60
1	AA	1256	DA	N1-C6-N6	11.32	125.39	118.60
3	A1	35	DT	O4'-C4'-C3'	-11.32	99.20	106.00
24	AO	42	DA	N1-C6-N6	11.32	125.39	118.60
60	B4	29	DA	N1-C6-N6	11.32	125.39	118.60
147	Ce	44	DA	N1-C6-N6	11.32	125.39	118.60
1	AA	2355	DA	N1-C6-N6	11.32	125.39	118.60
1	AA	6475	DA	N1-C6-N6	11.32	125.39	118.60
1	AA	1361	DA	N1-C6-N6	11.32	125.39	118.60
1	AA	4075	DC	O4'-C4'-C3'	-11.32	99.21	106.00
45	Al	44	DA	N1-C6-N6	11.32	125.39	118.60
69	BE	13	DA	N1-C6-N6	11.32	125.39	118.60
143	CZ	29	DA	N1-C6-N6	11.32	125.39	118.60
49	As	37	DA	N1-C6-N6	11.32	125.39	118.60
120	CC	8	DA	N1-C6-N6	11.32	125.39	118.60
1	AA	445	DA	N1-C6-N6	11.32	125.39	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1615	DA	N1-C6-N6	11.32	125.39	118.60
1	AA	2515	DA	N1-C6-N6	11.32	125.39	118.60
59	B3	7	DA	N1-C6-N6	11.32	125.39	118.60
69	BE	49	DA	N1-C6-N6	11.32	125.39	118.60
1	AA	2616	DA	N1-C6-N6	11.32	125.39	118.60
9	A7	7	DA	N1-C6-N6	11.32	125.39	118.60
113	C3	14	DA	N1-C6-N6	11.32	125.39	118.60
26	AQ	45	DA	N1-C6-N6	11.32	125.39	118.60
33	AX	16	DA	N1-C6-N6	11.32	125.39	118.60
119	CB	8	DA	N1-C6-N6	11.32	125.39	118.60
123	CF	39	DA	N1-C6-N6	11.32	125.39	118.60
134	CQ	15	DA	N1-C6-N6	11.32	125.39	118.60
156	Ct	42	DA	N1-C6-N6	11.32	125.39	118.60
1	AA	526	DA	N1-C6-N6	11.31	125.39	118.60
1	AA	5425	DA	N1-C6-N6	11.31	125.39	118.60
1	AA	6697	DA	N1-C6-N6	11.31	125.39	118.60
1	AA	6820	DA	O4'-C4'-C3'	-11.31	99.21	106.00
93	Bc	8	DC	P-O3'-C3'	11.31	133.28	119.70
143	CZ	27	DA	N1-C6-N6	11.31	125.39	118.60
81	BQ	28	DA	N1-C6-N6	11.31	125.39	118.60
86	BV	24	DA	N1-C6-N6	11.31	125.39	118.60
115	C5	35	DA	N1-C6-N6	11.31	125.39	118.60
59	B3	10	DA	N1-C6-N6	11.31	125.39	118.60
1	AA	2085	DA	N1-C6-N6	11.31	125.39	118.60
11	AB	18	DA	N1-C6-N6	11.31	125.39	118.60
26	AQ	16	DA	N1-C6-N6	11.31	125.39	118.60
54	Ay	34	DA	N1-C6-N6	11.31	125.39	118.60
99	Bi	11	DA	N1-C6-N6	11.31	125.39	118.60
148	Cf	40	DA	N1-C6-N6	11.31	125.39	118.60
1	AA	249	DA	N1-C6-N6	11.31	125.39	118.60
49	As	2	DA	N1-C6-N6	11.31	125.39	118.60
13	AD	30	DA	N1-C6-N6	11.31	125.38	118.60
36	Ab	17	DA	N1-C6-N6	11.31	125.39	118.60
129	CL	47	DA	N1-C6-N6	11.31	125.38	118.60
8	A6	47	DA	N1-C6-N6	11.31	125.38	118.60
85	BU	49	DA	N1-C6-N6	11.31	125.38	118.60
1	AA	951	DA	N1-C6-N6	11.30	125.38	118.60
1	AA	1628	DA	N1-C6-N6	11.30	125.38	118.60
1	AA	4773	DA	N1-C6-N6	11.30	125.38	118.60
1	AA	5918	DA	N1-C6-N6	11.30	125.38	118.60
4	A2	3	DA	N1-C6-N6	11.30	125.38	118.60
13	AD	36	DA	N1-C6-N6	11.30	125.38	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
79	BO	14	DA	N1-C6-N6	11.30	125.38	118.60
88	BX	31	DA	N1-C6-N6	11.30	125.38	118.60
91	Ba	14	DA	N1-C6-N6	11.30	125.38	118.60
104	Bn	40	DG	N1-C6-O6	11.30	126.68	119.90
122	CE	14	DA	N1-C6-N6	11.30	125.38	118.60
13	AD	41	DA	N1-C6-N6	11.30	125.38	118.60
103	Bm	41	DA	N1-C6-N6	11.30	125.38	118.60
128	CK	45	DA	N1-C6-N6	11.30	125.38	118.60
139	CV	3	DA	N1-C6-N6	11.30	125.38	118.60
15	AF	37	DA	N1-C6-N6	11.30	125.38	118.60
129	CL	29	DA	N1-C6-N6	11.30	125.38	118.60
1	AA	528	DA	N1-C6-N6	11.30	125.38	118.60
1	AA	6536	DA	N1-C6-N6	11.30	125.38	118.60
1	AA	6788	DA	N1-C6-N6	11.30	125.38	118.60
66	BB	27	DA	N1-C6-N6	11.30	125.38	118.60
117	C7	46	DA	O4'-C4'-C3'	-11.30	99.22	106.00
1	AA	7066	DA	N1-C6-N6	11.30	125.38	118.60
64	B8	12	DA	N1-C6-N6	11.30	125.38	118.60
101	Bk	66	DA	N1-C6-N6	11.30	125.38	118.60
113	C3	10	DA	N1-C6-N6	11.30	125.38	118.60
114	C4	47	DA	N1-C6-N6	11.30	125.38	118.60
128	CK	11	DA	N1-C6-N6	11.30	125.38	118.60
1	AA	739	DA	N1-C6-N6	11.30	125.38	118.60
1	AA	2318	DA	N1-C6-N6	11.29	125.38	118.60
1	AA	6182	DA	N1-C6-N6	11.29	125.38	118.60
8	A6	17	DA	N1-C6-N6	11.29	125.38	118.60
56	B0	26	DA	N1-C6-N6	11.29	125.38	118.60
65	B9	47	DA	N1-C6-N6	11.29	125.38	118.60
131	CN	26	DA	N1-C6-N6	11.29	125.38	118.60
160	Cx	7	DA	N1-C6-N6	11.29	125.38	118.60
1	AA	258	DA	N1-C6-N6	11.29	125.38	118.60
2	A0	4	DA	N1-C6-N6	11.29	125.38	118.60
21	AL	3	DA	N1-C6-N6	11.29	125.38	118.60
89	BY	38	DA	N1-C6-N6	11.29	125.38	118.60
8	A6	43	DA	N1-C6-N6	11.29	125.38	118.60
53	Ax	31	DA	N1-C6-N6	11.29	125.38	118.60
62	B6	9	DA	N1-C6-N6	11.29	125.38	118.60
1	AA	606	DA	N1-C6-N6	11.29	125.37	118.60
1	AA	5851	DA	N1-C6-N6	11.29	125.37	118.60
1	AA	5892	DA	N1-C6-N6	11.29	125.37	118.60
23	AN	41	DA	N1-C6-N6	11.29	125.37	118.60
156	Ct	13	DA	N1-C6-N6	11.29	125.37	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2068	DA	N1-C6-N6	11.29	125.37	118.60
1	AA	5992	DA	N1-C6-N6	11.29	125.37	118.60
16	AG	14	DA	N1-C6-N6	11.29	125.37	118.60
123	CF	34	DA	N1-C6-N6	11.29	125.37	118.60
130	CM	23	DA	N1-C6-N6	11.29	125.37	118.60
133	CP	32	DA	N1-C6-N6	11.29	125.37	118.60
130	CM	12	DA	N1-C6-N6	11.29	125.37	118.60
139	CV	29	DC	O4'-C4'-C3'	-11.29	99.23	106.00
145	Cc	42	DA	N1-C6-N6	11.29	125.37	118.60
157	Cu	17	DA	N1-C6-N6	11.29	125.37	118.60
1	AA	750	DA	N1-C6-N6	11.29	125.37	118.60
1	AA	1005	DA	N1-C6-N6	11.29	125.37	118.60
1	AA	2928	DA	N1-C6-N6	11.29	125.37	118.60
1	AA	6586	DA	N1-C6-N6	11.29	125.37	118.60
22	AM	37	DA	N1-C6-N6	11.29	125.37	118.60
35	AZ	40	DA	N1-C6-N6	11.28	125.37	118.60
71	BG	4	DA	N1-C6-N6	11.28	125.37	118.60
124	CG	12	DA	N1-C6-N6	11.28	125.37	118.60
133	CP	11	DA	N1-C6-N6	11.28	125.37	118.60
139	CV	51	DA	N1-C6-N6	11.29	125.37	118.60
1	AA	2196	DA	N1-C6-N6	11.28	125.37	118.60
1	AA	2211	DA	N1-C6-N6	11.28	125.37	118.60
119	CB	16	DA	N1-C6-N6	11.28	125.37	118.60
1	AA	4930	DA	N1-C6-N6	11.28	125.37	118.60
1	AA	6803	DA	N1-C6-N6	11.28	125.37	118.60
43	Aj	51	DA	N1-C6-N6	11.28	125.37	118.60
126	CI	16	DA	N1-C6-N6	11.28	125.37	118.60
138	CU	12	DA	N1-C6-N6	11.28	125.37	118.60
138	CU	23	DA	N1-C6-N6	11.28	125.37	118.60
1	AA	1056	DA	N1-C6-N6	11.28	125.37	118.60
1	AA	1262	DA	N1-C6-N6	11.28	125.37	118.60
8	A6	1	DA	N1-C6-N6	11.28	125.37	118.60
1	AA	6844	DA	N1-C6-N6	11.28	125.37	118.60
3	A1	39	DA	N1-C6-N6	11.28	125.37	118.60
47	An	25	DA	N1-C6-N6	11.28	125.37	118.60
89	BY	39	DA	N1-C6-N6	11.28	125.37	118.60
97	Bg	3	DA	N1-C6-N6	11.28	125.37	118.60
122	CE	33	DA	N1-C6-N6	11.28	125.37	118.60
1	AA	1471	DA	N1-C6-N6	11.28	125.36	118.60
1	AA	1598	DA	N1-C6-N6	11.28	125.36	118.60
1	AA	2337	DA	N1-C6-N6	11.28	125.36	118.60
10	A8	19	DA	N1-C6-N6	11.28	125.36	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	AE	40	DA	N1-C6-N6	11.28	125.36	118.60
103	Bm	28	DA	N1-C6-N6	11.28	125.37	118.60
115	C5	43	DA	N1-C6-N6	11.28	125.36	118.60
145	Cc	23	DA	N1-C6-N6	11.28	125.37	118.60
1	AA	5855	DA	N1-C6-N6	11.27	125.36	118.60
61	B5	21	DA	N1-C6-N6	11.27	125.36	118.60
64	B8	24	DA	N1-C6-N6	11.27	125.36	118.60
116	C6	19	DA	N1-C6-N6	11.27	125.36	118.60
132	CO	8	DA	N1-C6-N6	11.27	125.36	118.60
1	AA	7	DA	N1-C6-N6	11.27	125.36	118.60
1	AA	942	DA	N1-C6-N6	11.27	125.36	118.60
1	AA	4526	DA	N1-C6-N6	11.27	125.36	118.60
96	Bf	20	DA	N1-C6-N6	11.27	125.36	118.60
100	Bj	28	DA	N1-C6-N6	11.27	125.36	118.60
136	CS	13	DA	N1-C6-N6	11.27	125.36	118.60
146	Cd	10	DA	N1-C6-N6	11.27	125.36	118.60
1	AA	76	DA	N1-C6-N6	11.27	125.36	118.60
1	AA	485	DA	N1-C6-N6	11.27	125.36	118.60
1	AA	1279	DA	N1-C6-N6	11.27	125.36	118.60
29	AT	10	DA	N1-C6-N6	11.27	125.36	118.60
1	AA	1663	DA	N1-C6-N6	11.27	125.36	118.60
1	AA	3278	DA	N1-C6-N6	11.27	125.36	118.60
1	AA	4113	DA	N1-C6-N6	11.27	125.36	118.60
95	Be	31	DA	N1-C6-N6	11.27	125.36	118.60
159	Cw	43	DA	N1-C6-N6	11.27	125.36	118.60
160	Cx	31	DA	N1-C6-N6	11.27	125.36	118.60
1	AA	1652	DA	N1-C6-N6	11.27	125.36	118.60
1	AA	4195	DA	N1-C6-N6	11.27	125.36	118.60
1	AA	1595	DA	N1-C6-N6	11.27	125.36	118.60
1	AA	1751	DA	N1-C6-N6	11.27	125.36	118.60
24	AO	7	DA	N1-C6-N6	11.27	125.36	118.60
124	CG	5	DA	N1-C6-N6	11.27	125.36	118.60
96	Bf	42	DA	N1-C6-N6	11.27	125.36	118.60
1	AA	1210	DA	N1-C6-N6	11.26	125.36	118.60
31	AV	49	DA	N1-C6-N6	11.26	125.36	118.60
106	Bp	41	DA	N1-C6-N6	11.26	125.36	118.60
126	CI	38	DA	N1-C6-N6	11.26	125.36	118.60
127	CJ	39	DA	N1-C6-N6	11.26	125.36	118.60
1	AA	3189	DA	N1-C6-N6	11.26	125.36	118.60
1	AA	4263	DA	N1-C6-N6	11.26	125.36	118.60
1	AA	5671	DA	N1-C6-N6	11.26	125.36	118.60
1	AA	6368	DC	O4'-C4'-C3'	-11.26	99.24	106.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
68	BD	9	DG	P-O3'-C3'	11.26	133.21	119.70
74	BJ	11	DA	N1-C6-N6	11.26	125.36	118.60
94	Bd	47	DA	N1-C6-N6	11.26	125.36	118.60
114	C4	5	DA	N1-C6-N6	11.26	125.36	118.60
162	Cz	42	DA	N1-C6-N6	11.26	125.36	118.60
1	AA	311	DA	N1-C6-N6	11.26	125.36	118.60
1	AA	519	DA	N1-C6-N6	11.26	125.35	118.60
1	AA	5442	DA	N1-C6-N6	11.26	125.36	118.60
26	AQ	29	DA	N1-C6-N6	11.26	125.35	118.60
43	Aj	61	DA	N1-C6-N6	11.26	125.35	118.60
62	B6	2	DA	N1-C6-N6	11.26	125.35	118.60
117	C7	31	DA	N1-C6-N6	11.26	125.35	118.60
1	AA	1388	DA	N1-C6-N6	11.25	125.35	118.60
1	AA	4581	DA	N1-C6-N6	11.25	125.35	118.60
1	AA	5323	DA	N1-C6-N6	11.25	125.35	118.60
1	AA	6218	DA	N1-C6-N6	11.25	125.35	118.60
81	BQ	43	DA	N1-C6-N6	11.25	125.35	118.60
93	Bc	37	DA	N1-C6-N6	11.25	125.35	118.60
1	AA	1727	DA	N1-C6-N6	11.25	125.35	118.60
1	AA	2060	DA	N1-C6-N6	11.25	125.35	118.60
1	AA	3965	DA	N1-C6-N6	11.25	125.35	118.60
1	AA	5923	DA	N1-C6-N6	11.25	125.35	118.60
1	AA	6534	DA	N1-C6-N6	11.25	125.35	118.60
1	AA	6817	DA	N1-C6-N6	11.25	125.35	118.60
39	Af	43	DA	N1-C6-N6	11.25	125.35	118.60
114	C4	24	DA	N1-C6-N6	11.25	125.35	118.60
77	BM	1	DA	N1-C6-N6	11.25	125.35	118.60
93	Bc	3	DA	N1-C6-N6	11.25	125.35	118.60
105	Bo	64	DA	N1-C6-N6	11.25	125.35	118.60
117	C7	39	DA	N1-C6-N6	11.25	125.35	118.60
120	CC	10	DA	N1-C6-N6	11.25	125.35	118.60
1	AA	475	DA	N1-C6-N6	11.25	125.35	118.60
1	AA	1712	DA	N1-C6-N6	11.25	125.35	118.60
1	AA	4000	DA	N1-C6-N6	11.25	125.35	118.60
1	AA	4007	DA	N1-C6-N6	11.25	125.35	118.60
11	AB	34	DA	N1-C6-N6	11.25	125.35	118.60
25	AP	14	DA	N1-C6-N6	11.25	125.35	118.60
31	AV	4	DA	N1-C6-N6	11.25	125.35	118.60
68	BD	8	DA	N1-C6-N6	11.25	125.35	118.60
70	BF	16	DA	N1-C6-N6	11.25	125.35	118.60
92	Bb	65	DA	N1-C6-N6	11.25	125.35	118.60
113	C3	9	DA	N1-C6-N6	11.25	125.35	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
119	CB	10	DA	N1-C6-N6	11.25	125.35	118.60
1	AA	2011	DA	N1-C6-N6	11.24	125.35	118.60
1	AA	2809	DC	O4'-C4'-C3'	-11.24	99.25	106.00
25	AP	11	DA	N1-C6-N6	11.24	125.35	118.60
55	Az	35	DA	N1-C6-N6	11.24	125.35	118.60
1	AA	777	DA	N1-C6-N6	11.24	125.34	118.60
1	AA	2254	DA	N1-C6-N6	11.24	125.35	118.60
1	AA	6276	DA	N1-C6-N6	11.24	125.34	118.60
2	A0	55	DA	N1-C6-N6	11.24	125.34	118.60
74	BJ	2	DA	N1-C6-N6	11.24	125.34	118.60
111	C1	33	DA	N1-C6-N6	11.24	125.35	118.60
150	Ch	1	DA	N1-C6-N6	11.24	125.35	118.60
154	Cr	4	DA	N1-C6-N6	11.24	125.35	118.60
118	C8	5	DA	N1-C6-N6	11.24	125.34	118.60
1	AA	3948	DA	N1-C6-N6	11.24	125.34	118.60
1	AA	6148	DA	N1-C6-N6	11.24	125.34	118.60
1	AA	6811	DA	N1-C6-N6	11.24	125.34	118.60
133	CP	10	DA	N1-C6-N6	11.24	125.34	118.60
1	AA	5376	DA	N1-C6-N6	11.24	125.34	118.60
1	AA	6300	DA	N1-C6-N6	11.24	125.34	118.60
2	A0	6	DA	N1-C6-N6	11.24	125.34	118.60
21	AL	22	DA	N1-C6-N6	11.24	125.34	118.60
113	C3	13	DA	N1-C6-N6	11.24	125.34	118.60
135	CR	42	DA	N1-C6-N6	11.24	125.34	118.60
1	AA	2966	DA	N1-C6-N6	11.24	125.34	118.60
1	AA	3190	DA	N1-C6-N6	11.24	125.34	118.60
1	AA	5055	DA	N1-C6-N6	11.24	125.34	118.60
1	AA	5057	DA	N1-C6-N6	11.24	125.34	118.60
1	AA	6193	DA	N1-C6-N6	11.24	125.34	118.60
2	A0	3	DA	N1-C6-N6	11.24	125.34	118.60
59	B3	38	DA	N1-C6-N6	11.24	125.34	118.60
88	BX	35	DA	N1-C6-N6	11.24	125.34	118.60
22	AM	27	DA	N1-C6-N6	11.24	125.34	118.60
42	Ai	13	DA	N1-C6-N6	11.24	125.34	118.60
59	B3	37	DA	N1-C6-N6	11.24	125.34	118.60
84	BT	14	DA	N1-C6-N6	11.24	125.34	118.60
120	CC	7	DA	N1-C6-N6	11.24	125.34	118.60
127	CJ	48	DA	N1-C6-N6	11.24	125.34	118.60
139	CV	12	DA	N1-C6-N6	11.24	125.34	118.60
1	AA	2387	DA	N1-C6-N6	11.23	125.34	118.60
1	AA	4301	DA	N1-C6-N6	11.23	125.34	118.60
6	A4	42	DA	N1-C6-N6	11.23	125.34	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	AY	38	DA	N1-C6-N6	11.23	125.34	118.60
41	Ah	42	DA	N1-C6-N6	11.23	125.34	118.60
87	BW	14	DA	N1-C6-N6	11.23	125.34	118.60
133	CP	24	DA	N1-C6-N6	11.23	125.34	118.60
149	Cg	33	DA	N1-C6-N6	11.23	125.34	118.60
1	AA	170	DA	N1-C6-N6	11.23	125.34	118.60
1	AA	5247	DA	N1-C6-N6	11.23	125.34	118.60
51	Av	23	DA	N1-C6-N6	11.23	125.34	118.60
124	CG	20	DA	N1-C6-N6	11.23	125.34	118.60
127	CJ	58	DA	N1-C6-N6	11.23	125.34	118.60
154	Cr	11	DA	N1-C6-N6	11.23	125.34	118.60
159	Cw	3	DA	N1-C6-N6	11.23	125.34	118.60
38	Ad	30	DA	N1-C6-N6	11.23	125.34	118.60
61	B5	25	DA	N1-C6-N6	11.23	125.34	118.60
84	BT	20	DA	N1-C6-N6	11.23	125.34	118.60
115	C5	44	DA	N1-C6-N6	11.23	125.34	118.60
143	CZ	19	DA	N1-C6-N6	11.23	125.34	118.60
148	Cf	14	DA	N1-C6-N6	11.23	125.34	118.60
1	AA	1039	DA	N1-C6-N6	11.23	125.33	118.60
15	AF	44	DA	N1-C6-N6	11.23	125.33	118.60
156	Ct	15	DA	N1-C6-N6	11.23	125.33	118.60
1	AA	1404	DA	N1-C6-N6	11.22	125.33	118.60
1	AA	3964	DA	N1-C6-N6	11.22	125.33	118.60
1	AA	5008	DA	N1-C6-N6	11.22	125.33	118.60
1	AA	2392	DA	N1-C6-N6	11.22	125.33	118.60
107	Bq	55	DA	N1-C6-N6	11.22	125.33	118.60
119	CB	4	DA	N1-C6-N6	11.22	125.33	118.60
135	CR	32	DA	N1-C6-N6	11.22	125.33	118.60
155	Cs	26	DA	N1-C6-N6	11.22	125.33	118.60
1	AA	891	DA	N1-C6-N6	11.22	125.33	118.60
1	AA	2320	DA	N1-C6-N6	11.22	125.33	118.60
1	AA	4459	DA	N1-C6-N6	11.22	125.33	118.60
1	AA	6740	DA	N1-C6-N6	11.22	125.33	118.60
88	BX	18	DA	N1-C6-N6	11.22	125.33	118.60
1	AA	6116	DA	N1-C6-N6	11.22	125.33	118.60
1	AA	6281	DA	N1-C6-N6	11.22	125.33	118.60
39	Af	24	DA	N1-C6-N6	11.22	125.33	118.60
1	AA	6004	DA	N1-C6-N6	11.22	125.33	118.60
16	AG	32	DA	N1-C6-N6	11.22	125.33	118.60
1	AA	4561	DA	N1-C6-N6	11.21	125.33	118.60
1	AA	6535	DA	N1-C6-N6	11.21	125.33	118.60
1	AA	6742	DA	N1-C6-N6	11.21	125.33	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6804	DA	N1-C6-N6	11.21	125.33	118.60
80	BP	9	DA	N1-C6-N6	11.21	125.33	118.60
93	Bc	2	DA	N1-C6-N6	11.21	125.33	118.60
153	Cq	26	DA	N1-C6-N6	11.21	125.33	118.60
1	AA	1209	DA	N1-C6-N6	11.21	125.33	118.60
1	AA	6562	DA	N1-C6-N6	11.21	125.33	118.60
19	AJ	10	DA	N1-C6-N6	11.21	125.33	118.60
77	BM	31	DA	N1-C6-N6	11.21	125.33	118.60
105	Bo	7	DA	N1-C6-N6	11.21	125.33	118.60
145	Cc	59	DA	N1-C6-N6	11.21	125.33	118.60
1	AA	5007	DA	N1-C6-N6	11.21	125.33	118.60
100	Bj	1	DA	N1-C6-N6	11.21	125.33	118.60
140	CW	26	DA	N1-C6-N6	11.21	125.33	118.60
1	AA	1015	DA	N1-C6-N6	11.21	125.32	118.60
35	AZ	4	DT	O4'-C4'-C3'	-11.21	99.28	106.00
85	BU	31	DA	N1-C6-N6	11.21	125.32	118.60
1	AA	3977	DA	N1-C6-N6	11.20	125.32	118.60
1	AA	4784	DA	N1-C6-N6	11.20	125.32	118.60
23	AN	19	DA	N1-C6-N6	11.20	125.32	118.60
59	B3	16	DA	N1-C6-N6	11.20	125.32	118.60
129	CL	6	DA	N1-C6-N6	11.21	125.32	118.60
1	AA	2823	DA	N1-C6-N6	11.20	125.32	118.60
1	AA	5023	DA	N1-C6-N6	11.20	125.32	118.60
1	AA	6684	DA	N1-C6-N6	11.20	125.32	118.60
1	AA	6977	DA	N1-C6-N6	11.20	125.32	118.60
132	CO	29	DA	N1-C6-N6	11.20	125.32	118.60
146	Cd	30	DA	N1-C6-N6	11.20	125.32	118.60
1	AA	1021	DA	N1-C6-N6	11.20	125.32	118.60
1	AA	6225	DA	N1-C6-N6	11.20	125.32	118.60
88	BX	34	DA	N1-C6-N6	11.20	125.32	118.60
1	AA	1248	DA	N1-C6-N6	11.20	125.32	118.60
1	AA	2321	DA	N1-C6-N6	11.20	125.32	118.60
4	A2	2	DA	N1-C6-N6	11.20	125.32	118.60
22	AM	10	DA	N1-C6-N6	11.20	125.32	118.60
29	AT	46	DA	N1-C6-N6	11.20	125.32	118.60
1	AA	611	DA	N1-C6-N6	11.20	125.32	118.60
1	AA	3429	DA	N1-C6-N6	11.20	125.32	118.60
18	AI	4	DA	N1-C6-N6	11.20	125.32	118.60
66	BB	23	DA	N1-C6-N6	11.20	125.32	118.60
126	CI	32	DA	N1-C6-N6	11.20	125.32	118.60
138	CU	31	DA	N1-C6-N6	11.20	125.32	118.60
147	Ce	41	DA	N1-C6-N6	11.20	125.32	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1407	DA	N1-C6-N6	11.19	125.32	118.60
58	B2	6	DA	N1-C6-N6	11.20	125.32	118.60
77	BM	50	DA	N1-C6-N6	11.19	125.32	118.60
159	Cw	10	DA	N1-C6-N6	11.19	125.32	118.60
1	AA	1168	DA	N1-C6-N6	11.19	125.31	118.60
1	AA	2328	DA	N1-C6-N6	11.19	125.32	118.60
1	AA	2434	DA	N1-C6-N6	11.19	125.31	118.60
1	AA	4440	DA	N1-C6-N6	11.19	125.32	118.60
1	AA	6482	DA	N1-C6-N6	11.19	125.32	118.60
3	A1	3	DA	N1-C6-N6	11.19	125.31	118.60
95	Be	24	DA	N1-C6-N6	11.19	125.32	118.60
93	Bc	4	DA	N1-C6-N6	11.19	125.31	118.60
162	Cz	10	DA	N1-C6-N6	11.19	125.31	118.60
1	AA	4477	DA	N1-C6-N6	11.19	125.31	118.60
62	B6	4	DA	N1-C6-N6	11.19	125.31	118.60
1	AA	4240	DA	N1-C6-N6	11.19	125.31	118.60
5	A3	23	DA	N1-C6-N6	11.19	125.31	118.60
37	Ac	33	DA	N1-C6-N6	11.19	125.31	118.60
43	Aj	49	DA	N1-C6-N6	11.19	125.31	118.60
1	AA	2929	DA	N1-C6-N6	11.19	125.31	118.60
1	AA	5668	DA	N1-C6-N6	11.19	125.31	118.60
1	AA	6008	DA	N1-C6-N6	11.19	125.31	118.60
1	AA	6652	DA	N1-C6-N6	11.19	125.31	118.60
1	AA	6874	DA	N1-C6-N6	11.19	125.31	118.60
16	AG	24	DA	N1-C6-N6	11.19	125.31	118.60
22	AM	28	DA	N1-C6-N6	11.19	125.31	118.60
24	AO	2	DA	N1-C6-N6	11.19	125.31	118.60
71	BG	10	DA	N1-C6-N6	11.19	125.31	118.60
118	C8	22	DA	N1-C6-N6	11.19	125.31	118.60
156	Ct	41	DA	N1-C6-N6	11.19	125.31	118.60
92	Bb	64	DA	N1-C6-N6	11.19	125.31	118.60
1	AA	2350	DA	N1-C6-N6	11.18	125.31	118.60
1	AA	5093	DA	N1-C6-N6	11.18	125.31	118.60
39	Af	34	DA	N1-C6-N6	11.18	125.31	118.60
86	BV	3	DA	N1-C6-N6	11.18	125.31	118.60
1	AA	4204	DA	N1-C6-N6	11.18	125.31	118.60
1	AA	5056	DA	N1-C6-N6	11.18	125.31	118.60
27	AR	27	DA	N1-C6-N6	11.18	125.31	118.60
73	BI	13	DA	N1-C6-N6	11.18	125.31	118.60
82	BR	15	DA	N1-C6-N6	11.18	125.31	118.60
85	BU	37	DA	N1-C6-N6	11.18	125.31	118.60
127	CJ	23	DA	N1-C6-N6	11.18	125.31	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	7224	DA	N1-C6-N6	11.18	125.31	118.60
74	BJ	41	DA	N1-C6-N6	11.18	125.31	118.60
96	Bf	38	DA	N1-C6-N6	11.18	125.31	118.60
115	C5	46	DA	N1-C6-N6	11.18	125.31	118.60
133	CP	12	DA	N1-C6-N6	11.18	125.31	118.60
161	Cy	49	DA	N1-C6-N6	11.18	125.31	118.60
1	AA	2905	DA	N1-C6-N6	11.18	125.31	118.60
1	AA	3718	DA	N1-C6-N6	11.18	125.31	118.60
2	A0	13	DA	N1-C6-N6	11.18	125.31	118.60
39	Af	39	DA	N1-C6-N6	11.18	125.31	118.60
78	BN	49	DA	N1-C6-N6	11.18	125.31	118.60
153	Cq	16	DA	N1-C6-N6	11.18	125.31	118.60
1	AA	3505	DA	N1-C6-N6	11.18	125.31	118.60
31	AV	36	DA	N1-C6-N6	11.18	125.31	118.60
46	Am	47	DA	N1-C6-N6	11.18	125.31	118.60
159	Cw	24	DA	N1-C6-N6	11.18	125.31	118.60
1	AA	4720	DA	N1-C6-N6	11.17	125.30	118.60
8	A6	6	DA	N1-C6-N6	11.17	125.30	118.60
19	AJ	8	DA	N1-C6-N6	11.17	125.30	118.60
72	BH	25	DA	N1-C6-N6	11.17	125.31	118.60
32	AW	46	DA	N1-C6-N6	11.17	125.30	118.60
43	Aj	58	DA	N1-C6-N6	11.17	125.30	118.60
50	Au	33	DA	N1-C6-N6	11.17	125.30	118.60
72	BH	39	DA	N1-C6-N6	11.17	125.30	118.60
97	Bg	6	DA	N1-C6-N6	11.17	125.30	118.60
27	AR	40	DA	N1-C6-N6	11.17	125.30	118.60
35	AZ	5	DA	N1-C6-N6	11.17	125.30	118.60
54	Ay	33	DA	N1-C6-N6	11.17	125.30	118.60
78	BN	17	DA	N1-C6-N6	11.17	125.30	118.60
81	BQ	46	DA	N1-C6-N6	11.17	125.30	118.60
86	BV	7	DA	N1-C6-N6	11.17	125.30	118.60
1	AA	4695	DA	N1-C6-N6	11.17	125.30	118.60
16	AG	7	DA	N1-C6-N6	11.17	125.30	118.60
80	BP	61	DA	N1-C6-N6	11.17	125.30	118.60
1	AA	684	DA	N1-C6-N6	11.16	125.30	118.60
78	BN	40	DA	N1-C6-N6	11.16	125.30	118.60
81	BQ	27	DA	N1-C6-N6	11.16	125.30	118.60
89	BY	36	DA	N1-C6-N6	11.16	125.30	118.60
148	Cf	26	DA	N1-C6-N6	11.16	125.30	118.60
162	Cz	11	DA	N1-C6-N6	11.16	125.30	118.60
1	AA	2589	DA	N1-C6-N6	11.16	125.30	118.60
90	BZ	63	DA	N1-C6-N6	11.16	125.30	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
99	Bi	59	DA	N1-C6-N6	11.16	125.30	118.60
1	AA	1931	DA	N1-C6-N6	11.16	125.30	118.60
1	AA	5902	DA	N1-C6-N6	11.16	125.30	118.60
135	CR	1	DA	N1-C6-N6	11.16	125.30	118.60
1	AA	1102	DA	N1-C6-N6	11.16	125.30	118.60
125	CH	41	DA	N1-C6-N6	11.16	125.30	118.60
159	Cw	16	DG	O4'-C4'-C3'	-11.16	99.31	106.00
69	BE	32	DA	N1-C6-N6	11.16	125.29	118.60
1	AA	733	DA	N1-C6-N6	11.15	125.29	118.60
1	AA	1472	DA	N1-C6-N6	11.15	125.29	118.60
1	AA	1743	DA	N1-C6-N6	11.15	125.29	118.60
1	AA	3235	DA	N1-C6-N6	11.15	125.29	118.60
13	AD	22	DA	N1-C6-N6	11.15	125.29	118.60
13	AD	50	DA	N1-C6-N6	11.15	125.29	118.60
160	Cx	35	DA	N1-C6-N6	11.15	125.29	118.60
1	AA	469	DA	N1-C6-N6	11.15	125.29	118.60
1	AA	1117	DA	N1-C6-N6	11.15	125.29	118.60
1	AA	2458	DA	N1-C6-N6	11.15	125.29	118.60
1	AA	1645	DA	N1-C6-N6	11.15	125.29	118.60
1	AA	2993	DA	N1-C6-N6	11.15	125.29	118.60
1	AA	5444	DA	N1-C6-N6	11.15	125.29	118.60
51	Av	14	DA	N1-C6-N6	11.15	125.29	118.60
62	B6	6	DA	N1-C6-N6	11.15	125.29	118.60
126	CI	11	DA	N1-C6-N6	11.15	125.29	118.60
1	AA	5629	DA	N1-C6-N6	11.15	125.29	118.60
39	Af	26	DA	N1-C6-N6	11.15	125.29	118.60
41	Ah	16	DA	N1-C6-N6	11.15	125.29	118.60
66	BB	32	DA	N1-C6-N6	11.15	125.29	118.60
103	Bm	24	DA	N1-C6-N6	11.15	125.29	118.60
104	Bn	54	DA	N1-C6-N6	11.15	125.29	118.60
113	C3	5	DA	N1-C6-N6	11.15	125.29	118.60
159	Cw	2	DA	N1-C6-N6	11.15	125.29	118.60
162	Cz	13	DA	N1-C6-N6	11.15	125.29	118.60
1	AA	3049	DA	N1-C6-N6	11.14	125.29	118.60
1	AA	3261	DA	N1-C6-N6	11.14	125.29	118.60
1	AA	6241	DA	N1-C6-N6	11.14	125.29	118.60
27	AR	57	DA	N1-C6-N6	11.14	125.29	118.60
156	Ct	29	DA	N1-C6-N6	11.14	125.29	118.60
87	BW	21	DA	N1-C6-N6	11.14	125.29	118.60
136	CS	34	DA	N1-C6-N6	11.14	125.29	118.60
8	A6	25	DA	N1-C6-N6	11.14	125.28	118.60
29	AT	19	DA	N1-C6-N6	11.14	125.28	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
152	Cp	18	DA	N1-C6-N6	11.14	125.28	118.60
8	A6	9	DA	N1-C6-N6	11.14	125.28	118.60
84	BT	9	DA	N1-C6-N6	11.14	125.28	118.60
17	AH	3	DA	N1-C6-N6	11.14	125.28	118.60
33	AX	6	DA	N1-C6-N6	11.14	125.28	118.60
119	CB	7	DA	P-O3'-C3'	11.14	133.06	119.70
1	AA	2477	DA	N1-C6-N6	11.14	125.28	118.60
1	AA	5715	DA	N1-C6-N6	11.14	125.28	118.60
103	Bm	47	DA	N1-C6-N6	11.14	125.28	118.60
158	Cv	17	DA	N1-C6-N6	11.13	125.28	118.60
1	AA	1053	DA	N1-C6-N6	11.13	125.28	118.60
31	AV	35	DA	N1-C6-N6	11.13	125.28	118.60
89	BY	34	DT	P-O3'-C3'	11.13	133.06	119.70
1	AA	1134	DA	N1-C6-N6	11.13	125.28	118.60
22	AM	45	DA	N1-C6-N6	11.13	125.28	118.60
91	Ba	1	DA	N1-C6-N6	11.13	125.28	118.60
1	AA	5850	DA	N1-C6-N6	11.13	125.28	118.60
69	BE	37	DA	N1-C6-N6	11.13	125.28	118.60
90	BZ	62	DA	N1-C6-N6	11.13	125.28	118.60
113	C3	22	DA	N1-C6-N6	11.13	125.28	118.60
116	C6	26	DA	O4'-C4'-C3'	-11.13	99.32	106.00
161	Cy	15	DA	N1-C6-N6	11.13	125.28	118.60
29	AT	6	DA	N1-C6-N6	11.12	125.28	118.60
87	BW	7	DA	N1-C6-N6	11.13	125.28	118.60
105	Bo	1	DA	N1-C6-N6	11.13	125.28	118.60
1	AA	1750	DA	N1-C6-N6	11.12	125.27	118.60
25	AP	28	DA	N1-C6-N6	11.12	125.27	118.60
86	BV	38	DT	O4'-C4'-C3'	-11.12	99.33	106.00
96	Bf	1	DA	N1-C6-N6	11.12	125.27	118.60
113	C3	4	DA	N1-C6-N6	11.12	125.27	118.60
162	Cz	24	DA	N1-C6-N6	11.12	125.27	118.60
1	AA	256	DA	N1-C6-N6	11.12	125.27	118.60
1	AA	474	DA	N1-C6-N6	11.12	125.27	118.60
24	AO	35	DA	N1-C6-N6	11.11	125.27	118.60
71	BG	1	DA	N1-C6-N6	11.12	125.27	118.60
133	CP	3	DA	N1-C6-N6	11.12	125.27	118.60
1	AA	2479	DA	N1-C6-N6	11.11	125.27	118.60
126	CI	15	DA	N1-C6-N6	11.11	125.27	118.60
146	Cd	33	DA	N1-C6-N6	11.11	125.27	118.60
1	AA	1048	DA	N1-C6-N6	11.11	125.27	118.60
1	AA	6246	DA	N1-C6-N6	11.11	125.27	118.60
1	AA	5549	DA	N1-C6-N6	11.11	125.26	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
99	Bi	1	DA	N1-C6-N6	11.11	125.26	118.60
141	CX	7	DA	N1-C6-N6	11.11	125.26	118.60
1	AA	1325	DA	N1-C6-N6	11.10	125.26	118.60
44	Ak	6	DA	N1-C6-N6	11.10	125.26	118.60
49	As	18	DA	N1-C6-N6	11.10	125.26	118.60
1	AA	2703	DA	N1-C6-N6	11.10	125.26	118.60
1	AA	3960	DA	N1-C6-N6	11.10	125.26	118.60
19	AJ	2	DA	N1-C6-N6	11.10	125.26	118.60
8	A6	2	DA	N1-C6-N6	11.10	125.26	118.60
1	AA	4801	DA	N1-C6-N6	11.10	125.26	118.60
1	AA	4802	DA	N1-C6-N6	11.10	125.26	118.60
42	Ai	44	DA	N1-C6-N6	11.10	125.26	118.60
81	BQ	31	DA	N1-C6-N6	11.10	125.26	118.60
1	AA	5628	DA	N1-C6-N6	11.10	125.26	118.60
1	AA	5802	DA	N1-C6-N6	11.10	125.26	118.60
1	AA	5993	DA	N1-C6-N6	11.10	125.26	118.60
75	BK	40	DA	N1-C6-N6	11.10	125.26	118.60
83	BS	15	DC	P-O3'-C3'	11.10	133.02	119.70
90	BZ	32	DA	N1-C6-N6	11.10	125.26	118.60
125	CH	37	DA	N1-C6-N6	11.10	125.26	118.60
148	Cf	44	DA	N1-C6-N6	11.10	125.26	118.60
1	AA	3549	DA	N1-C6-N6	11.09	125.26	118.60
1	AA	5930	DA	N1-C6-N6	11.09	125.26	118.60
3	A1	31	DA	N1-C6-N6	11.09	125.26	118.60
109	Bs	3	DG	N1-C6-O6	11.09	126.56	119.90
155	Cs	30	DA	N1-C6-N6	11.09	125.26	118.60
4	A2	9	DA	N1-C6-N6	11.09	125.25	118.60
135	CR	27	DA	N1-C6-N6	11.09	125.25	118.60
48	Ao	36	DA	N1-C6-N6	11.09	125.25	118.60
1	AA	4388	DA	N1-C6-N6	11.09	125.25	118.60
69	BE	54	DA	N1-C6-N6	11.08	125.25	118.60
89	BY	17	DA	N1-C6-N6	11.08	125.25	118.60
58	B2	22	DA	N1-C6-N6	11.08	125.25	118.60
136	CS	36	DA	N1-C6-N6	11.08	125.25	118.60
155	Cs	46	DA	N1-C6-N6	11.08	125.25	118.60
1	AA	326	DA	N1-C6-N6	11.08	125.25	118.60
1	AA	5670	DA	N1-C6-N6	11.08	125.25	118.60
1	AA	1112	DA	N1-C6-N6	11.08	125.25	118.60
53	Ax	3	DA	N1-C6-N6	11.08	125.25	118.60
89	BY	19	DA	N1-C6-N6	11.08	125.25	118.60
88	BX	16	DA	N1-C6-N6	11.07	125.25	118.60
1	AA	6233	DA	N1-C6-N6	11.07	125.24	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
84	BT	42	DA	N1-C6-N6	11.07	125.24	118.60
45	Al	46	DA	N1-C6-N6	11.07	125.24	118.60
1	AA	2194	DG	P-O3'-C3'	11.07	132.98	119.70
1	AA	1137	DA	N1-C6-N6	11.07	125.24	118.60
1	AA	1646	DA	N1-C6-N6	11.07	125.24	118.60
1	AA	5563	DA	N1-C6-N6	11.07	125.24	118.60
53	Ax	4	DA	N1-C6-N6	11.07	125.24	118.60
96	Bf	10	DC	P-O3'-C3'	11.07	132.98	119.70
1	AA	6119	DA	N1-C6-N6	11.06	125.24	118.60
1	AA	607	DA	O4'-C4'-C3'	-11.06	99.36	106.00
1	AA	2361	DA	N1-C6-N6	11.06	125.24	118.60
1	AA	3532	DA	N1-C6-N6	11.06	125.24	118.60
152	Cp	22	DA	N1-C6-N6	11.06	125.24	118.60
160	Cx	37	DA	N1-C6-N6	11.06	125.24	118.60
1	AA	810	DA	N1-C6-N6	11.06	125.23	118.60
28	AS	61	DA	N1-C6-N6	11.06	125.24	118.60
1	AA	5706	DA	N1-C6-N6	11.06	125.23	118.60
8	A6	45	DA	N1-C6-N6	11.06	125.23	118.60
52	Aw	18	DA	N1-C6-N6	11.06	125.23	118.60
1	AA	1439	DA	N1-C6-N6	11.06	125.23	118.60
1	AA	346	DA	N1-C6-N6	11.05	125.23	118.60
70	BF	32	DA	N1-C6-N6	11.05	125.23	118.60
80	BP	66	DA	N1-C6-N6	11.05	125.23	118.60
150	Ch	5	DA	N1-C6-N6	11.05	125.23	118.60
1	AA	5803	DA	N1-C6-N6	11.05	125.23	118.60
1	AA	6530	DA	N1-C6-N6	11.05	125.23	118.60
27	AR	38	DA	N1-C6-N6	11.05	125.23	118.60
68	BD	10	DA	N1-C6-N6	11.05	125.23	118.60
1	AA	995	DA	N1-C6-N6	11.05	125.23	118.60
1	AA	2822	DA	N1-C6-N6	11.05	125.23	118.60
121	CD	26	DA	N1-C6-N6	11.05	125.23	118.60
1	AA	6149	DA	N1-C6-N6	11.05	125.23	118.60
144	Cb	12	DA	N1-C6-N6	11.05	125.23	118.60
79	BO	19	DA	N1-C6-N6	11.04	125.23	118.60
85	BU	32	DA	N1-C6-N6	11.04	125.23	118.60
86	BV	13	DA	N1-C6-N6	11.04	125.23	118.60
115	C5	20	DA	N1-C6-N6	11.05	125.23	118.60
1	AA	2177	DA	N1-C6-N6	11.04	125.23	118.60
81	BQ	17	DA	N1-C6-N6	11.04	125.23	118.60
122	CE	26	DA	N1-C6-N6	11.04	125.23	118.60
1	AA	6990	DA	N1-C6-N6	11.04	125.22	118.60
1	AA	2422	DA	N1-C6-N6	11.04	125.22	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3957	DA	N1-C6-N6	11.04	125.22	118.60
49	As	36	DA	N1-C6-N6	11.04	125.22	118.60
1	AA	459	DA	N1-C6-N6	11.04	125.22	118.60
1	AA	261	DA	N1-C6-N6	11.03	125.22	118.60
1	AA	668	DA	N1-C6-N6	11.03	125.22	118.60
22	AM	18	DA	N1-C6-N6	11.03	125.22	118.60
43	Aj	22	DA	N1-C6-N6	11.03	125.22	118.60
91	Ba	2	DA	N1-C6-N6	11.03	125.22	118.60
148	Cf	4	DA	N1-C6-N6	11.03	125.22	118.60
1	AA	1054	DA	N1-C6-N6	11.02	125.21	118.60
1	AA	3733	DA	N1-C6-N6	11.02	125.21	118.60
42	Ai	3	DA	N1-C6-N6	11.02	125.21	118.60
1	AA	1908	DA	N1-C6-N6	11.02	125.21	118.60
1	AA	5884	DG	O4'-C4'-C3'	-11.02	99.39	106.00
3	A1	1	DA	N1-C6-N6	11.02	125.21	118.60
52	Aw	27	DA	N1-C6-N6	11.02	125.21	118.60
1	AA	3494	DA	N1-C6-N6	11.02	125.21	118.60
99	Bi	7	DA	N1-C6-N6	11.02	125.21	118.60
1	AA	6975	DA	N1-C6-N6	11.01	125.21	118.60
156	Ct	14	DA	N1-C6-N6	11.01	125.21	118.60
1	AA	6783	DA	N1-C6-N6	11.01	125.20	118.60
70	BF	31	DA	N1-C6-N6	11.01	125.20	118.60
24	AO	26	DA	N1-C6-N6	11.01	125.20	118.60
121	CD	13	DA	N1-C6-N6	11.01	125.20	118.60
121	CD	30	DA	N1-C6-N6	11.01	125.20	118.60
78	BN	46	DA	N1-C6-N6	11.01	125.20	118.60
1	AA	7217	DT	P-O3'-C3'	11.00	132.90	119.70
4	A2	1	DA	N1-C6-N6	11.00	125.20	118.60
89	BY	29	DA	N1-C6-N6	11.00	125.20	118.60
1	AA	2826	DC	P-O3'-C3'	11.00	132.90	119.70
60	B4	47	DA	N1-C6-N6	11.00	125.20	118.60
1	AA	5574	DA	N1-C6-N6	11.00	125.20	118.60
1	AA	1235	DA	N1-C6-N6	11.00	125.20	118.60
75	BK	22	DA	O4'-C4'-C3'	-11.00	99.40	106.00
90	BZ	65	DA	N1-C6-N6	11.00	125.20	118.60
1	AA	2304	DA	N1-C6-N6	10.99	125.20	118.60
1	AA	3580	DA	N1-C6-N6	10.99	125.20	118.60
152	Cp	30	DC	O4'-C4'-C3'	-10.99	99.41	106.00
101	Bk	7	DA	N1-C6-N6	10.99	125.19	118.60
162	Cz	46	DA	N1-C6-N6	10.99	125.19	118.60
82	BR	33	DA	N1-C6-N6	10.98	125.19	118.60
1	AA	4771	DA	O4'-C4'-C3'	-10.98	99.41	106.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	4560	DA	N1-C6-N6	10.97	125.19	118.60
149	Cg	1	DC	O4'-C1'-N1	10.97	115.68	108.00
1	AA	2210	DA	N1-C6-N6	10.97	125.18	118.60
89	BY	7	DA	N1-C6-N6	10.97	125.18	118.60
95	Be	28	DT	O4'-C4'-C3'	-10.97	99.42	106.00
1	AA	860	DA	N1-C6-N6	10.96	125.18	118.60
1	AA	3587	DA	N1-C6-N6	10.96	125.18	118.60
152	Cp	23	DA	N1-C6-N6	10.96	125.18	118.60
23	AN	2	DA	N1-C6-N6	10.96	125.17	118.60
1	AA	1909	DA	N1-C6-N6	10.96	125.17	118.60
88	BX	7	DA	N1-C6-N6	10.96	125.17	118.60
1	AA	4689	DA	N1-C6-N6	10.95	125.17	118.60
45	Al	3	DA	N1-C6-N6	10.95	125.17	118.60
88	BX	17	DA	N1-C6-N6	10.95	125.17	118.60
30	AU	11	DA	N1-C6-N6	10.95	125.17	118.60
144	Cb	2	DA	N1-C6-N6	10.94	125.17	118.60
67	BC	11	DA	N1-C6-N6	10.94	125.16	118.60
85	BU	40	DA	N1-C6-N6	10.94	125.16	118.60
88	BX	14	DG	O4'-C4'-C3'	-10.94	99.44	106.00
89	BY	46	DA	N1-C6-N6	10.94	125.16	118.60
106	Bp	31	DA	N1-C6-N6	10.94	125.16	118.60
162	Cz	23	DA	N1-C6-N6	10.94	125.16	118.60
3	A1	29	DA	N1-C6-N6	10.93	125.16	118.60
14	AE	39	DA	N1-C6-N6	10.93	125.16	118.60
56	B0	42	DA	N1-C6-N6	10.93	125.16	118.60
88	BX	30	DA	N1-C6-N6	10.93	125.16	118.60
3	A1	36	DA	N1-C6-N6	10.92	125.15	118.60
88	BX	37	DA	N1-C6-N6	10.92	125.15	118.60
89	BY	37	DA	N1-C6-N6	10.92	125.15	118.60
116	C6	43	DC	P-O3'-C3'	10.92	132.81	119.70
58	B2	30	DA	N1-C6-N6	10.92	125.15	118.60
1	AA	6504	DA	N1-C6-N6	10.92	125.15	118.60
23	AN	38	DA	N1-C6-N6	10.92	125.15	118.60
93	Bc	32	DG	O4'-C4'-C3'	-10.92	99.45	106.00
1	AA	3495	DA	N1-C6-N6	10.91	125.15	118.60
1	AA	3698	DA	N1-C6-N6	10.91	125.15	118.60
1	AA	5632	DA	N1-C6-N6	10.91	125.15	118.60
78	BN	52	DA	N1-C6-N6	10.91	125.15	118.60
74	BJ	27	DA	N1-C6-N6	10.91	125.15	118.60
143	CZ	25	DA	N1-C6-N6	10.91	125.15	118.60
1	AA	4785	DA	N1-C6-N6	10.90	125.14	118.60
1	AA	5925	DA	N1-C6-N6	10.90	125.14	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
52	Aw	47	DG	N1-C6-O6	10.90	126.44	119.90
26	AQ	15	DC	P-O3'-C3'	10.90	132.78	119.70
1	AA	5692	DA	N1-C6-N6	10.90	125.14	118.60
77	BM	42	DA	N1-C6-N6	10.89	125.14	118.60
1	AA	2524	DA	OP2-P-O3'	10.89	129.16	105.20
1	AA	7194	DA	N1-C6-N6	10.89	125.13	118.60
22	AM	22	DA	N1-C6-N6	10.89	125.13	118.60
64	B8	11	DA	N1-C6-N6	10.89	125.13	118.60
1	AA	5727	DA	N1-C6-N6	10.88	125.13	118.60
18	AI	5	DA	N1-C6-N6	10.88	125.13	118.60
62	B6	31	DA	N1-C6-N6	10.88	125.13	118.60
1	AA	251	DA	N1-C6-N6	10.88	125.13	118.60
16	AG	32	DA	O4'-C4'-C3'	-10.88	99.47	106.00
15	AF	10	DC	O4'-C4'-C3'	-10.88	99.47	106.00
76	BL	6	DA	N1-C6-N6	10.88	125.12	118.60
1	AA	4060	DA	N1-C6-N6	10.87	125.12	118.60
1	AA	1788	DA	N1-C6-N6	10.86	125.11	118.60
127	CJ	57	DA	N1-C6-N6	10.85	125.11	118.60
1	AA	6463	DG	P-O3'-C3'	10.85	132.72	119.70
26	AQ	50	DG	P-O3'-C3'	10.84	132.71	119.70
35	AZ	7	DA	N1-C6-N6	10.84	125.10	118.60
74	BJ	5	DA	N1-C6-N6	10.84	125.10	118.60
1	AA	404	DA	N1-C6-N6	10.83	125.10	118.60
118	C8	43	DA	N1-C6-N6	10.83	125.10	118.60
142	CY	22	DA	N1-C6-N6	10.83	125.10	118.60
1	AA	399	DA	N1-C6-N6	10.82	125.09	118.60
1	AA	471	DA	N1-C6-N6	10.82	125.09	118.60
38	Ad	2	DA	N1-C6-N6	10.82	125.09	118.60
1	AA	4324	DT	P-O3'-C3'	10.82	132.68	119.70
40	Ag	22	DC	O4'-C4'-C3'	-10.82	99.51	106.00
1	AA	3173	DA	N1-C6-N6	10.81	125.09	118.60
47	An	30	DG	O4'-C4'-C3'	-10.81	99.52	106.00
1	AA	5747	DA	N1-C6-N6	10.80	125.08	118.60
123	CF	15	DT	P-O3'-C3'	10.80	132.66	119.70
132	CO	2	DA	N1-C6-N6	10.80	125.08	118.60
1	AA	1000	DA	N1-C6-N6	10.79	125.07	118.60
69	BE	45	DA	N1-C6-N6	10.79	125.07	118.60
1	AA	3312	DA	N1-C6-N6	10.79	125.07	118.60
39	Af	32	DA	N1-C6-N6	10.79	125.07	118.60
43	Aj	6	DA	O4'-C4'-C3'	-10.79	99.53	106.00
83	BS	13	DC	O4'-C4'-C3'	-10.78	99.53	106.00
4	A2	10	DA	N1-C6-N6	10.78	125.07	118.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
89	BY	28	DA	N1-C6-N6	10.78	125.07	118.60
112	C2	53	DA	N1-C6-N6	10.77	125.06	118.60
27	AR	13	DA	P-O3'-C3'	10.77	132.62	119.70
29	AT	43	DA	N1-C6-N6	10.76	125.06	118.60
121	CD	38	DA	N1-C6-N6	10.76	125.06	118.60
1	AA	5692	DA	P-O3'-C3'	10.75	132.60	119.70
126	CI	13	DA	N1-C6-N6	10.74	125.05	118.60
31	AV	47	DA	N1-C6-N6	10.73	125.04	118.60
9	A7	44	DC	O4'-C1'-N1	10.73	115.51	108.00
106	Bp	31	DA	C1'-O4'-C4'	-10.72	99.38	110.10
1	AA	3384	DG	C5-C6-O6	-10.71	122.17	128.60
1	AA	6784	DA	N1-C6-N6	10.71	125.02	118.60
78	BN	50	DA	N1-C6-N6	10.70	125.02	118.60
61	B5	30	DG	O4'-C4'-C3'	-10.70	99.58	106.00
119	CB	40	DA	N1-C6-N6	10.70	125.02	118.60
1	AA	5586	DG	N1-C6-O6	10.70	126.32	119.90
70	BF	40	DA	N1-C6-N6	10.70	125.02	118.60
75	BK	38	DC	O4'-C4'-C3'	-10.70	99.58	106.00
1	AA	4763	DC	O4'-C4'-C3'	-10.69	99.59	106.00
43	Aj	6	DA	N1-C6-N6	10.69	125.01	118.60
43	Aj	49	DA	P-O3'-C3'	10.68	132.52	119.70
28	AS	9	DA	N1-C6-N6	10.67	125.00	118.60
1	AA	7076	DG	N1-C6-O6	10.67	126.30	119.90
148	Cf	11	DA	N1-C6-N6	10.66	125.00	118.60
1	AA	852	DA	N1-C6-N6	10.66	125.00	118.60
1	AA	116	DG	OP1-P-O3'	-10.66	81.76	105.20
56	B0	26	DA	O4'-C4'-C3'	-10.65	99.61	106.00
1	AA	4458	DA	N1-C6-N6	10.64	124.99	118.60
1	AA	5558	DG	O4'-C4'-C3'	-10.64	99.62	106.00
24	AO	8	DC	O4'-C1'-N1	10.64	115.44	108.00
121	CD	18	DG	N1-C6-O6	10.64	126.28	119.90
1	AA	4099	DA	O4'-C4'-C3'	-10.63	99.62	106.00
1	AA	7194	DA	P-O3'-C3'	10.62	132.45	119.70
81	BQ	6	DA	N1-C6-N6	10.62	124.97	118.60
1	AA	6832	DC	O4'-C4'-C3'	-10.61	99.64	106.00
16	AG	42	DA	N1-C6-N6	10.61	124.96	118.60
1	AA	3776	DG	O4'-C4'-C3'	-10.60	99.64	106.00
25	AP	5	DA	N1-C6-N6	10.59	124.95	118.60
1	AA	6392	DG	N1-C6-O6	10.58	126.25	119.90
1	AA	1027	DA	N1-C6-N6	10.57	124.94	118.60
1	AA	4361	DG	N1-C6-O6	10.57	126.24	119.90
1	AA	5355	DT	O4'-C4'-C3'	-10.55	99.67	106.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	A3	32	DC	O4'-C1'-N1	10.54	115.38	108.00
117	C7	12	DT	P-O3'-C3'	10.54	132.35	119.70
108	Br	27	DG	N1-C6-O6	10.54	126.22	119.90
1	AA	6418	DG	C5-C6-O6	-10.53	122.28	128.60
103	Bm	33	DG	N1-C6-O6	10.53	126.22	119.90
1	AA	6253	DG	O4'-C4'-C3'	-10.52	99.69	106.00
99	Bi	45	DG	P-O3'-C3'	10.52	132.32	119.70
40	Ag	6	DA	N1-C6-N6	10.51	124.91	118.60
127	CJ	41	DC	O4'-C4'-C3'	-10.51	99.70	106.00
1	AA	4971	DG	N1-C6-O6	10.50	126.20	119.90
1	AA	1390	DG	N1-C6-O6	10.50	126.20	119.90
1	AA	5699	DT	O4'-C4'-C3'	-10.49	99.71	106.00
13	AD	36	DA	P-O3'-C3'	10.49	132.29	119.70
1	AA	5241	DG	N1-C6-O6	10.49	126.19	119.90
37	Ac	38	DA	O4'-C1'-N9	10.49	115.34	108.00
1	AA	5432	DG	N1-C6-O6	10.48	126.19	119.90
122	CE	20	DG	N1-C6-O6	10.48	126.19	119.90
1	AA	1451	DG	O4'-C4'-C3'	-10.48	99.71	106.00
1	AA	5238	DG	N1-C6-O6	10.48	126.19	119.90
1	AA	1420	DA	N1-C6-N6	10.47	124.89	118.60
1	AA	5074	DT	O4'-C4'-C3'	-10.47	99.72	106.00
127	CJ	40	DA	O4'-C4'-C3'	-10.47	99.72	106.00
134	CQ	34	DA	N1-C6-N6	10.46	124.88	118.60
57	B1	37	DA	O4'-C4'-C3'	-10.44	99.73	106.00
1	AA	725	DT	O4'-C4'-C3'	-10.43	99.74	106.00
1	AA	6058	DG	N1-C6-O6	10.43	126.16	119.90
148	Cf	10	DA	N1-C6-N6	10.43	124.86	118.60
1	AA	1913	DG	N1-C6-O6	10.43	126.16	119.90
100	Bj	18	DC	O4'-C4'-C3'	-10.39	99.77	106.00
1	AA	5481	DG	N1-C6-O6	10.39	126.13	119.90
128	CK	14	DC	O4'-C4'-C3'	-10.39	99.77	106.00
1	AA	5239	DG	N1-C6-O6	10.39	126.13	119.90
135	CR	10	DT	O4'-C4'-C3'	-10.38	99.77	106.00
1	AA	1376	DG	N1-C6-O6	10.37	126.12	119.90
2	A0	37	DA	N1-C6-N6	10.37	124.82	118.60
20	AK	18	DG	C5-C6-O6	-10.37	122.38	128.60
75	BK	24	DG	N1-C6-O6	10.36	126.11	119.90
21	AL	22	DA	O4'-C4'-C3'	-10.36	99.79	106.00
68	BD	17	DG	O4'-C4'-C3'	-10.35	99.79	106.00
1	AA	1618	DG	P-O3'-C3'	-10.35	107.28	119.70
1	AA	2711	DG	N1-C6-O6	10.35	126.11	119.90
1	AA	952	DG	P-O3'-C3'	10.34	132.11	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
36	Ab	3	DC	O4'-C4'-C3'	-10.34	99.80	106.00
143	CZ	34	DG	P-O3'-C3'	10.33	132.10	119.70
1	AA	2855	DG	N1-C6-O6	10.33	126.10	119.90
37	Ac	37	DC	O4'-C1'-N1	10.33	115.23	108.00
161	Cy	58	DA	O4'-C4'-C3'	-10.33	99.80	106.00
1	AA	1554	DA	P-O3'-C3'	10.32	132.09	119.70
1	AA	1084	DG	N1-C6-O6	10.31	126.08	119.90
1	AA	557	DC	O4'-C4'-C3'	-10.30	99.82	106.00
1	AA	6400	DC	O4'-C4'-C3'	-10.30	99.82	106.00
1	AA	266	DG	N1-C6-O6	10.29	126.07	119.90
1	AA	4254	DG	N1-C6-O6	10.29	126.07	119.90
143	CZ	4	DG	N1-C6-O6	10.29	126.07	119.90
1	AA	5509	DA	N1-C6-N6	10.29	124.77	118.60
1	AA	7111	DC	P-O3'-C3'	10.29	132.04	119.70
7	A5	1	DG	N1-C6-O6	10.28	126.07	119.90
1	AA	1378	DG	N1-C6-O6	10.28	126.06	119.90
1	AA	2525	DT	O4'-C1'-C2'	-10.28	97.68	105.90
58	B2	8	DG	N1-C6-O6	10.27	126.06	119.90
33	AX	32	DG	N1-C6-O6	10.27	126.06	119.90
123	CF	9	DG	N1-C6-O6	10.25	126.05	119.90
1	AA	2781	DA	P-O3'-C3'	10.25	132.00	119.70
48	Ao	10	DG	N1-C6-O6	10.25	126.05	119.90
104	Bn	40	DG	C5-C6-O6	-10.24	122.46	128.60
1	AA	5811	DG	C5-C6-O6	-10.23	122.46	128.60
1	AA	1477	DG	N1-C6-O6	10.23	126.04	119.90
1	AA	5015	DG	N1-C6-O6	10.22	126.03	119.90
91	Ba	4	DG	N1-C6-O6	10.22	126.03	119.90
133	CP	2	DA	N1-C6-N6	10.22	124.73	118.60
130	CM	8	DG	N1-C6-O6	10.22	126.03	119.90
120	CC	46	DG	N1-C6-O6	10.22	126.03	119.90
1	AA	4651	DT	O4'-C4'-C3'	-10.21	99.88	106.00
44	Ak	2	DG	N1-C6-O6	10.21	126.03	119.90
1	AA	4515	DG	N1-C6-O6	10.20	126.02	119.90
71	BG	34	DC	O4'-C4'-C3'	-10.20	99.88	106.00
108	Br	45	DC	O4'-C4'-C3'	-10.20	99.88	106.00
48	Ao	11	DG	N1-C6-O6	10.19	126.02	119.90
1	AA	1935	DT	O4'-C4'-C3'	-10.19	99.89	106.00
4	A2	3	DA	O4'-C1'-N9	10.19	115.13	108.00
1	AA	5244	DG	N1-C6-O6	10.19	126.01	119.90
130	CM	48	DT	O4'-C4'-C3'	-10.19	99.89	106.00
1	AA	3881	DG	N1-C6-O6	10.19	126.01	119.90
1	AA	186	DT	O3'-P-O5'	-10.18	84.65	104.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	Ad	10	DG	N1-C6-O6	10.18	126.01	119.90
44	Ak	10	DG	N1-C6-O6	10.18	126.01	119.90
141	CX	13	DC	O4'-C4'-C3'	-10.18	99.89	106.00
1	AA	3080	DG	N1-C6-O6	10.17	126.00	119.90
116	C6	22	DG	N1-C6-O6	10.16	126.00	119.90
1	AA	2370	DG	N1-C6-O6	10.16	125.99	119.90
43	Aj	25	DG	N1-C6-O6	10.15	125.99	119.90
155	Cs	38	DG	O4'-C4'-C3'	-10.15	99.91	106.00
1	AA	2661	DG	N1-C6-O6	10.14	125.98	119.90
20	AK	18	DG	N1-C6-O6	10.14	125.98	119.90
49	As	16	DG	N1-C6-O6	10.14	125.98	119.90
1	AA	2631	DG	O4'-C4'-C3'	-10.13	99.92	106.00
1	AA	6418	DG	N1-C6-O6	10.13	125.98	119.90
48	Ao	8	DG	N1-C6-O6	10.12	125.97	119.90
155	Cs	1	DG	N1-C6-O6	10.13	125.98	119.90
1	AA	1650	DG	N1-C6-O6	10.12	125.97	119.90
2	A0	29	DA	O4'-C4'-C3'	-10.11	99.93	106.00
109	Bs	3	DG	C5-C6-O6	-10.11	122.53	128.60
49	As	15	DG	N1-C6-O6	10.10	125.96	119.90
1	AA	5336	DT	P-O3'-C3'	10.10	131.82	119.70
1	AA	5724	DG	N1-C6-O6	10.09	125.95	119.90
1	AA	5429	DG	N1-C6-O6	10.08	125.95	119.90
44	Ak	14	DT	O4'-C4'-C3'	-10.08	99.95	106.00
1	AA	5986	DG	N1-C6-O6	10.07	125.94	119.90
46	Am	31	DG	N1-C6-O6	10.06	125.94	119.90
58	B2	16	DG	N1-C6-O6	10.06	125.94	119.90
4	A2	7	DG	O4'-C1'-N9	10.06	115.04	108.00
42	Ai	4	DC	O4'-C1'-N1	10.06	115.04	108.00
155	Cs	2	DG	N1-C6-O6	10.06	125.93	119.90
1	AA	5401	DA	O4'-C4'-C3'	-10.05	99.97	106.00
1	AA	1612	DT	P-O3'-C3'	10.05	131.76	119.70
107	Bq	56	DC	O4'-C4'-C3'	-10.05	99.97	106.00
1	AA	7125	DT	O4'-C4'-C3'	-10.05	99.97	106.00
45	Al	35	DG	N1-C6-O6	10.05	125.93	119.90
11	AB	39	DC	O4'-C1'-N1	10.04	115.03	108.00
113	C3	45	DG	N1-C6-O6	10.04	125.92	119.90
123	CF	37	DG	N1-C6-O6	10.03	125.92	119.90
38	Ad	17	DG	N1-C6-O6	10.03	125.92	119.90
45	Al	41	DG	N1-C6-O6	10.03	125.92	119.90
1	AA	2460	DG	N1-C6-O6	10.02	125.91	119.90
1	AA	6245	DT	O4'-C4'-C3'	-10.02	99.99	106.00
29	AT	46	DA	P-O3'-C3'	10.02	131.72	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	7226	DG	N1-C6-O6	10.02	125.91	119.90
30	AU	37	DG	N1-C6-O6	10.02	125.91	119.90
1	AA	5483	DG	N1-C6-O6	10.01	125.91	119.90
92	Bb	18	DA	P-O3'-C3'	10.01	131.71	119.70
1	AA	5929	DG	N1-C6-O6	10.01	125.91	119.90
1	AA	3855	DG	N1-C6-O6	10.01	125.90	119.90
4	A2	2	DA	O4'-C1'-N9	10.01	115.00	108.00
21	AL	11	DG	N1-C6-O6	10.01	125.91	119.90
110	C0	2	DC	O4'-C4'-C3'	-10.01	100.00	106.00
1	AA	3491	DG	N1-C6-O6	10.00	125.90	119.90
1	AA	2129	DG	N1-C6-O6	10.00	125.90	119.90
1	AA	819	DG	N1-C6-O6	9.99	125.90	119.90
1	AA	3387	DG	N1-C6-O6	9.99	125.90	119.90
101	Bk	33	DG	O4'-C4'-C3'	-9.99	100.00	106.00
70	BF	38	DC	O4'-C4'-C3'	-9.99	100.01	106.00
1	AA	6184	DT	O4'-C4'-C3'	-9.98	100.01	106.00
30	AU	26	DG	N1-C6-O6	9.98	125.89	119.90
1	AA	6030	DG	N1-C6-O6	9.98	125.89	119.90
1	AA	6040	DG	N1-C6-O6	9.97	125.89	119.90
83	BS	32	DG	N1-C6-O6	9.97	125.88	119.90
117	C7	1	DG	N1-C6-O6	9.97	125.88	119.90
1	AA	6349	DG	N1-C6-O6	9.97	125.88	119.90
29	AT	44	DG	N1-C6-O6	9.97	125.88	119.90
41	Ah	40	DG	N1-C6-O6	9.97	125.88	119.90
48	Ao	29	DA	N1-C6-N6	9.96	124.58	118.60
108	Br	13	DC	P-O3'-C3'	9.96	131.66	119.70
1	AA	2508	DG	P-O3'-C3'	9.96	131.66	119.70
1	AA	3067	DG	N1-C6-O6	9.96	125.88	119.90
58	B2	8	DG	C5-C6-O6	-9.96	122.62	128.60
98	Bh	34	DG	N1-C6-O6	9.96	125.88	119.90
1	AA	1927	DT	O4'-C4'-C3'	-9.96	100.03	106.00
1	AA	3388	DG	N1-C6-O6	9.95	125.87	119.90
1	AA	5299	DG	N1-C6-O6	9.95	125.87	119.90
1	AA	6496	DG	N1-C6-O6	9.95	125.87	119.90
1	AA	5488	DG	N1-C6-O6	9.94	125.87	119.90
49	As	17	DG	N1-C6-O6	9.95	125.87	119.90
123	CF	16	DG	N1-C6-O6	9.94	125.87	119.90
118	C8	36	DG	N1-C6-O6	9.94	125.86	119.90
78	BN	57	DC	O4'-C4'-C3'	-9.94	100.04	106.00
1	AA	2733	DG	N1-C6-O6	9.93	125.86	119.90
2	A0	32	DG	N1-C6-O6	9.93	125.86	119.90
120	CC	36	DG	N1-C6-O6	9.93	125.86	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2635	DG	N1-C6-O6	9.93	125.86	119.90
78	BN	20	DA	P-O3'-C3'	9.92	131.61	119.70
10	A8	8	DG	N1-C6-O6	9.91	125.85	119.90
1	AA	2505	DG	N1-C6-O6	9.91	125.85	119.90
37	Ac	12	DG	N1-C6-O6	9.91	125.85	119.90
44	Ak	3	DG	N1-C6-O6	9.91	125.84	119.90
1	AA	5826	DG	N1-C6-O6	9.91	125.84	119.90
1	AA	6409	DG	N1-C6-O6	9.90	125.84	119.90
155	Cs	31	DG	N1-C6-O6	9.90	125.84	119.90
119	CB	54	DG	N1-C6-O6	9.90	125.84	119.90
1	AA	5658	DG	N1-C6-O6	9.90	125.84	119.90
19	AJ	24	DT	P-O3'-C3'	9.90	131.58	119.70
83	BS	20	DG	N1-C6-O6	9.89	125.83	119.90
1	AA	2846	DG	N1-C6-O6	9.89	125.83	119.90
1	AA	7108	DT	O4'-C4'-C3'	-9.89	100.07	106.00
43	Aj	53	DG	N1-C6-O6	9.88	125.83	119.90
45	Al	37	DG	N1-C6-O6	9.88	125.83	119.90
1	AA	2984	DG	N1-C6-O6	9.88	125.83	119.90
1	AA	3393	DG	N1-C6-O6	9.88	125.83	119.90
137	CT	7	DG	N1-C6-O6	9.88	125.83	119.90
153	Cq	6	DG	O4'-C4'-C3'	-9.88	100.07	106.00
1	AA	195	DC	O4'-C4'-C3'	-9.87	100.08	106.00
57	B1	53	DG	N1-C6-O6	9.87	125.82	119.90
79	BO	7	DG	N1-C6-O6	9.87	125.82	119.90
5	A3	10	DG	N1-C6-O6	9.86	125.82	119.90
83	BS	47	DC	O4'-C1'-N1	9.86	114.90	108.00
133	CP	28	DC	P-O3'-C3'	9.86	131.53	119.70
153	Cq	38	DC	O4'-C4'-C3'	-9.86	100.08	106.00
1	AA	2936	DG	N1-C6-O6	9.86	125.81	119.90
106	Bp	46	DG	O4'-C4'-C3'	-9.86	100.09	106.00
155	Cs	7	DG	N1-C6-O6	9.86	125.81	119.90
1	AA	2714	DG	N1-C6-O6	9.85	125.81	119.90
31	AV	12	DG	N1-C6-O6	9.85	125.81	119.90
120	CC	19	DG	N1-C6-O6	9.85	125.81	119.90
1	AA	3069	DG	N1-C6-O6	9.84	125.80	119.90
9	A7	6	DG	N1-C6-O6	9.84	125.80	119.90
85	BU	52	DG	N1-C6-O6	9.84	125.80	119.90
1	AA	5453	DG	N1-C6-O6	9.83	125.80	119.90
1	AA	4747	DG	N1-C6-O6	9.83	125.80	119.90
33	AX	15	DG	N1-C6-O6	9.83	125.80	119.90
26	AQ	51	DA	P-O3'-C3'	9.83	131.49	119.70
157	Cu	20	DG	N1-C6-O6	9.83	125.80	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5038	DG	N1-C6-O6	9.82	125.79	119.90
161	Cy	11	DG	N1-C6-O6	9.82	125.79	119.90
1	AA	1924	DG	N1-C6-O6	9.82	125.79	119.90
75	BK	12	DG	N1-C6-O6	9.82	125.79	119.90
1	AA	4613	DC	O4'-C4'-C3'	-9.82	100.11	106.00
1	AA	2892	DG	N1-C6-O6	9.81	125.79	119.90
1	AA	2963	DG	N1-C6-O6	9.81	125.79	119.90
1	AA	33	DG	P-O3'-C3'	9.81	131.47	119.70
1	AA	2938	DG	P-O3'-C3'	9.81	131.47	119.70
1	AA	6419	DG	N1-C6-O6	9.81	125.79	119.90
118	C8	10	DG	N1-C6-O6	9.81	125.79	119.90
132	CO	48	DG	N1-C6-O6	9.81	125.79	119.90
1	AA	5617	DG	N1-C6-O6	9.81	125.78	119.90
1	AA	5630	DG	N1-C6-O6	9.81	125.78	119.90
128	CK	43	DG	N1-C6-O6	9.81	125.78	119.90
123	CF	4	DG	N1-C6-O6	9.80	125.78	119.90
1	AA	6392	DG	C5-C6-O6	-9.80	122.72	128.60
31	AV	29	DG	N1-C6-O6	9.79	125.78	119.90
1	AA	6066	DG	P-O3'-C3'	9.79	131.45	119.70
1	AA	4731	DG	N1-C6-O6	9.79	125.77	119.90
1	AA	2236	DA	P-O3'-C3'	9.79	131.44	119.70
1	AA	6909	DG	N1-C6-O6	9.78	125.77	119.90
1	AA	2875	DG	N1-C6-O6	9.77	125.76	119.90
1	AA	3483	DG	N1-C6-O6	9.77	125.76	119.90
1	AA	6399	DG	N1-C6-O6	9.77	125.76	119.90
20	AK	11	DG	N1-C6-O6	9.77	125.76	119.90
71	BG	11	DG	N1-C6-O6	9.77	125.76	119.90
99	Bi	6	DG	N1-C6-O6	9.77	125.76	119.90
142	CY	3	DG	N1-C6-O6	9.77	125.76	119.90
92	Bb	1	DG	N1-C6-O6	9.76	125.76	119.90
1	AA	4385	DG	N1-C6-O6	9.76	125.75	119.90
39	Af	30	DA	O4'-C1'-N9	9.76	114.83	108.00
83	BS	35	DG	N1-C6-O6	9.75	125.75	119.90
1	AA	4516	DG	N1-C6-O6	9.75	125.75	119.90
24	AO	42	DA	P-O3'-C3'	9.75	131.40	119.70
41	Ah	6	DT	O4'-C4'-C3'	-9.75	100.15	106.00
1	AA	6430	DG	N1-C6-O6	9.74	125.75	119.90
1	AA	6461	DG	N1-C6-O6	9.74	125.75	119.90
26	AQ	40	DG	N1-C6-O6	9.74	125.75	119.90
65	B9	26	DG	N1-C6-O6	9.74	125.74	119.90
1	AA	2623	DA	O4'-C4'-C3'	-9.73	100.16	106.00
1	AA	1818	DG	N1-C6-O6	9.73	125.74	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	AD	12	DC	O4'-C4'-C3'	-9.73	100.16	106.00
76	BL	18	DG	N1-C6-O6	9.73	125.74	119.90
18	AI	22	DG	N1-C6-O6	9.73	125.74	119.90
155	Cs	4	DG	N1-C6-O6	9.72	125.73	119.90
1	AA	5422	DG	N1-C6-O6	9.72	125.73	119.90
1	AA	5977	DG	N1-C6-O6	9.72	125.73	119.90
37	Ac	7	DT	O4'-C4'-C3'	-9.71	100.17	106.00
110	C0	36	DG	O4'-C4'-C3'	-9.71	100.17	106.00
1	AA	7000	DG	N1-C6-O6	9.71	125.73	119.90
1	AA	2644	DG	N1-C6-O6	9.71	125.72	119.90
30	AU	15	DG	N1-C6-O6	9.71	125.72	119.90
88	BX	30	DA	O4'-C4'-C3'	-9.70	100.18	106.00
1	AA	1389	DG	N1-C6-O6	9.70	125.72	119.90
1	AA	2713	DG	N1-C6-O6	9.70	125.72	119.90
1	AA	2894	DG	N1-C6-O6	9.70	125.72	119.90
1	AA	2909	DG	N1-C6-O6	9.70	125.72	119.90
1	AA	3289	DG	N1-C6-O6	9.70	125.72	119.90
1	AA	4062	DG	N1-C6-O6	9.70	125.72	119.90
60	B4	8	DC	P-O3'-C3'	9.70	131.34	119.70
1	AA	3602	DG	N1-C6-O6	9.69	125.72	119.90
58	B2	5	DC	O4'-C1'-N1	9.69	114.78	108.00
1	AA	6130	DC	O4'-C4'-C3'	-9.69	100.19	106.00
144	Cb	43	DA	O4'-C1'-N9	9.69	114.78	108.00
152	Cp	48	DG	N1-C6-O6	9.69	125.71	119.90
1	AA	1810	DG	N1-C6-O6	9.69	125.71	119.90
32	AW	23	DG	N1-C6-O6	9.69	125.71	119.90
112	C2	6	DA	N1-C6-N6	9.69	124.41	118.60
1	AA	3871	DG	N1-C6-O6	9.68	125.71	119.90
76	BL	16	DG	N1-C6-O6	9.68	125.71	119.90
1	AA	2612	DG	N1-C6-O6	9.68	125.71	119.90
1	AA	3302	DG	N1-C6-O6	9.68	125.71	119.90
1	AA	4811	DT	O4'-C4'-C3'	-9.68	100.19	106.00
121	CD	34	DG	N1-C6-O6	9.68	125.70	119.90
148	Cf	2	DG	N1-C6-O6	9.68	125.70	119.90
30	AU	16	DG	N1-C6-O6	9.67	125.70	119.90
43	Aj	26	DG	N1-C6-O6	9.67	125.70	119.90
116	C6	37	DG	N1-C6-O6	9.67	125.70	119.90
88	BX	14	DG	N1-C6-O6	9.67	125.70	119.90
122	CE	13	DG	N1-C6-O6	9.67	125.70	119.90
1	AA	2723	DG	N1-C6-O6	9.67	125.70	119.90
1	AA	2864	DG	N1-C6-O6	9.67	125.70	119.90
1	AA	3202	DA	O4'-C4'-C3'	-9.67	100.20	106.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6031	DG	N1-C6-O6	9.67	125.70	119.90
123	CF	21	DG	N1-C6-O6	9.67	125.70	119.90
1	AA	4338	DG	N1-C6-O6	9.66	125.70	119.90
160	Cx	11	DG	N1-C6-O6	9.66	125.70	119.90
82	BR	40	DG	N1-C6-O6	9.66	125.69	119.90
1	AA	116	DG	N1-C6-O6	9.65	125.69	119.90
1	AA	5333	DG	C5-C6-O6	-9.65	122.81	128.60
161	Cy	18	DG	N1-C6-O6	9.65	125.69	119.90
1	AA	3095	DG	N1-C6-O6	9.65	125.69	119.90
120	CC	37	DG	N1-C6-O6	9.65	125.69	119.90
30	AU	40	DG	N1-C6-O6	9.65	125.69	119.90
1	AA	1306	DG	N1-C6-O6	9.64	125.69	119.90
1	AA	5987	DG	N1-C6-O6	9.64	125.69	119.90
1	AA	2946	DA	P-O3'-C3'	9.64	131.27	119.70
1	AA	5963	DG	N1-C6-O6	9.64	125.69	119.90
26	AQ	20	DG	N1-C6-O6	9.64	125.68	119.90
28	AS	11	DA	P-O3'-C3'	9.64	131.27	119.70
139	CV	31	DG	N1-C6-O6	9.64	125.68	119.90
1	AA	2592	DG	N1-C6-O6	9.64	125.68	119.90
1	AA	5622	DG	N1-C6-O6	9.63	125.68	119.90
99	Bi	46	DT	O4'-C4'-C3'	-9.63	100.22	106.00
104	Bn	41	DG	N1-C6-O6	9.63	125.68	119.90
1	AA	6882	DT	P-O3'-C3'	9.63	131.25	119.70
34	AY	5	DG	N1-C6-O6	9.62	125.67	119.90
112	C2	39	DG	N1-C6-O6	9.62	125.67	119.90
130	CM	24	DG	P-O3'-C3'	9.62	131.25	119.70
108	Br	48	DG	N1-C6-O6	9.62	125.67	119.90
1	AA	4772	DG	N1-C6-O6	9.62	125.67	119.90
1	AA	2882	DG	N1-C6-O6	9.62	125.67	119.90
1	AA	454	DG	N1-C6-O6	9.61	125.67	119.90
1	AA	2595	DC	P-O3'-C3'	9.61	131.24	119.70
1	AA	3798	DG	N1-C6-O6	9.61	125.67	119.90
141	CX	34	DG	N1-C6-O6	9.61	125.67	119.90
37	Ac	16	DG	N1-C6-O6	9.61	125.67	119.90
1	AA	6981	DG	N1-C6-O6	9.61	125.66	119.90
30	AU	2	DA	O4'-C4'-C3'	-9.60	100.24	106.00
1	AA	6498	DG	N1-C6-O6	9.60	125.66	119.90
41	Ah	29	DG	N1-C6-O6	9.60	125.66	119.90
40	Ag	11	DG	N1-C6-O6	9.60	125.66	119.90
9	A7	46	DG	N1-C6-O6	9.60	125.66	119.90
1	AA	245	DG	N1-C6-O6	9.59	125.66	119.90
1	AA	4921	DG	N1-C6-O6	9.59	125.66	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
18	AI	25	DA	O4'-C1'-N9	9.59	114.72	108.00
103	Bm	29	DG	N1-C6-O6	9.59	125.66	119.90
1	AA	6342	DG	N1-C6-O6	9.59	125.65	119.90
1	AA	3426	DG	N1-C6-O6	9.59	125.65	119.90
31	AV	15	DG	N1-C6-O6	9.59	125.65	119.90
25	AP	2	DG	N1-C6-O6	9.58	125.65	119.90
1	AA	6094	DG	N1-C6-O6	9.58	125.65	119.90
96	Bf	40	DG	N1-C6-O6	9.58	125.65	119.90
1	AA	1163	DG	N1-C6-O6	9.58	125.64	119.90
33	AX	30	DG	N1-C6-O6	9.57	125.64	119.90
1	AA	5235	DG	N1-C6-O6	9.57	125.64	119.90
1	AA	6136	DT	P-O3'-C3'	9.57	131.19	119.70
104	Bn	22	DG	N1-C6-O6	9.57	125.64	119.90
145	Cc	32	DC	O4'-C4'-C3'	-9.57	100.26	106.00
1	AA	1381	DG	N1-C6-O6	9.57	125.64	119.90
145	Cc	51	DG	N1-C6-O6	9.57	125.64	119.90
47	An	16	DG	N1-C6-O6	9.57	125.64	119.90
1	AA	4230	DG	N1-C6-O6	9.57	125.64	119.90
96	Bf	44	DC	O4'-C1'-N1	9.57	114.70	108.00
79	BO	9	DG	P-O3'-C3'	9.56	131.18	119.70
1	AA	5053	DG	N1-C6-O6	9.56	125.64	119.90
1	AA	5222	DG	N1-C6-O6	9.56	125.64	119.90
75	BK	28	DG	N1-C6-O6	9.56	125.64	119.90
89	BY	26	DG	N1-C6-O6	9.56	125.64	119.90
1	AA	6432	DC	O4'-C4'-C3'	-9.56	100.27	106.00
30	AU	46	DC	O4'-C1'-N1	9.56	114.69	108.00
154	Cr	39	DG	N1-C6-O6	9.56	125.64	119.90
19	AJ	12	DG	N1-C6-O6	9.55	125.63	119.90
157	Cu	14	DA	O4'-C4'-C3'	-9.55	100.27	106.00
1	AA	2951	DG	N1-C6-O6	9.55	125.63	119.90
1	AA	6717	DG	N1-C6-O6	9.55	125.63	119.90
160	Cx	27	DG	N1-C6-O6	9.55	125.63	119.90
112	C2	43	DG	N1-C6-O6	9.55	125.63	119.90
1	AA	671	DG	N1-C6-O6	9.55	125.63	119.90
77	BM	45	DG	N1-C6-O6	9.55	125.63	119.90
1	AA	827	DG	N1-C6-O6	9.55	125.63	119.90
1	AA	2942	DG	N1-C6-O6	9.55	125.63	119.90
22	AM	34	DG	N1-C6-O6	9.54	125.63	119.90
44	Ak	17	DG	N1-C6-O6	9.54	125.63	119.90
89	BY	15	DG	N1-C6-O6	9.54	125.63	119.90
1	AA	2885	DG	N1-C6-O6	9.54	125.62	119.90
1	AA	6334	DG	N1-C6-O6	9.54	125.62	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	742	DG	N1-C6-O6	9.54	125.62	119.90
1	AA	1794	DG	N1-C6-O6	9.54	125.62	119.90
1	AA	6490	DG	N1-C6-O6	9.54	125.62	119.90
4	A2	36	DG	N1-C6-O6	9.54	125.62	119.90
19	AJ	17	DA	O4'-C4'-C3'	-9.54	100.28	106.00
107	Bq	6	DG	N1-C6-O6	9.53	125.62	119.90
1	AA	426	DG	N1-C6-O6	9.53	125.62	119.90
1	AA	814	DG	N1-C6-O6	9.53	125.62	119.90
1	AA	4281	DG	N1-C6-O6	9.53	125.62	119.90
5	A3	5	DC	P-O3'-C3'	9.53	131.14	119.70
137	CT	16	DG	N1-C6-O6	9.53	125.62	119.90
137	CT	31	DG	N1-C6-O6	9.53	125.62	119.90
101	Bk	57	DG	N1-C6-O6	9.53	125.62	119.90
146	Cd	22	DG	N1-C6-O6	9.53	125.62	119.90
1	AA	3748	DG	N1-C6-O6	9.52	125.61	119.90
141	CX	40	DG	N1-C6-O6	9.52	125.61	119.90
1	AA	4502	DG	N1-C6-O6	9.52	125.61	119.90
1	AA	3081	DG	O4'-C4'-C3'	-9.52	100.29	106.00
1	AA	5210	DG	N1-C6-O6	9.51	125.61	119.90
47	An	17	DG	N1-C6-O6	9.51	125.61	119.90
118	C8	6	DG	N1-C6-O6	9.51	125.61	119.90
122	CE	19	DG	N1-C6-O6	9.51	125.61	119.90
1	AA	1609	DG	N1-C6-O6	9.51	125.61	119.90
1	AA	2189	DG	N1-C6-O6	9.51	125.61	119.90
77	BM	29	DG	N1-C6-O6	9.51	125.61	119.90
1	AA	1938	DG	N1-C6-O6	9.51	125.60	119.90
1	AA	3921	DG	N1-C6-O6	9.51	125.60	119.90
74	BJ	19	DC	P-O3'-C3'	9.50	131.10	119.70
75	BK	24	DG	C5-C6-O6	-9.50	122.90	128.60
1	AA	1459	DG	N1-C6-O6	9.50	125.60	119.90
40	Ag	45	DG	N1-C6-O6	9.50	125.60	119.90
1	AA	351	DG	N1-C6-O6	9.50	125.60	119.90
1	AA	1458	DG	N1-C6-O6	9.50	125.60	119.90
132	CO	15	DG	N1-C6-O6	9.50	125.60	119.90
52	Aw	45	DG	N1-C6-O6	9.50	125.60	119.90
1	AA	1696	DG	N1-C6-O6	9.50	125.60	119.90
1	AA	3484	DG	N1-C6-O6	9.50	125.60	119.90
1	AA	5156	DG	N1-C6-O6	9.50	125.60	119.90
1	AA	3007	DG	N1-C6-O6	9.49	125.59	119.90
1	AA	5772	DG	P-O3'-C3'	9.49	131.09	119.70
1	AA	6412	DG	N1-C6-O6	9.49	125.60	119.90
34	AY	42	DG	N1-C6-O6	9.49	125.59	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5309	DG	N1-C6-O6	9.49	125.59	119.90
1	AA	5806	DG	N1-C6-O6	9.49	125.59	119.90
59	B3	24	DG	N1-C6-O6	9.49	125.59	119.90
47	An	12	DG	N1-C6-O6	9.48	125.59	119.90
101	Bk	7	DA	O4'-C4'-C3'	-9.48	100.31	106.00
1	AA	2985	DG	N1-C6-O6	9.48	125.59	119.90
55	Az	46	DG	N1-C6-O6	9.48	125.59	119.90
73	BI	10	DG	N1-C6-O6	9.48	125.59	119.90
1	AA	767	DG	N1-C6-O6	9.48	125.59	119.90
1	AA	3004	DG	N1-C6-O6	9.48	125.59	119.90
1	AA	4124	DG	N1-C6-O6	9.48	125.59	119.90
90	BZ	25	DG	N1-C6-O6	9.48	125.59	119.90
111	C1	1	DG	N1-C6-O6	9.48	125.59	119.90
143	CZ	4	DG	C5-C6-O6	-9.48	122.91	128.60
1	AA	903	DG	N1-C6-O6	9.47	125.58	119.90
30	AU	8	DG	N1-C6-O6	9.47	125.58	119.90
31	AV	42	DG	N1-C6-O6	9.47	125.58	119.90
49	As	10	DG	N1-C6-O6	9.47	125.58	119.90
115	C5	37	DG	N1-C6-O6	9.47	125.58	119.90
52	Aw	47	DG	C5-C6-O6	-9.47	122.92	128.60
116	C6	8	DG	N1-C6-O6	9.47	125.58	119.90
1	AA	4515	DG	C5-C6-O6	-9.47	122.92	128.60
1	AA	5136	DG	N1-C6-O6	9.47	125.58	119.90
128	CK	44	DG	N1-C6-O6	9.46	125.58	119.90
1	AA	1493	DG	N1-C6-O6	9.46	125.58	119.90
132	CO	18	DG	N1-C6-O6	9.46	125.58	119.90
1	AA	3093	DG	N1-C6-O6	9.46	125.58	119.90
1	AA	3789	DG	N1-C6-O6	9.46	125.58	119.90
1	AA	719	DG	N1-C6-O6	9.46	125.58	119.90
11	AB	12	DG	N1-C6-O6	9.46	125.58	119.90
1	AA	1579	DG	N1-C6-O6	9.46	125.57	119.90
1	AA	2852	DG	N1-C6-O6	9.46	125.57	119.90
1	AA	4047	DG	N1-C6-O6	9.46	125.57	119.90
1	AA	1604	DG	N1-C6-O6	9.45	125.57	119.90
1	AA	3352	DG	N1-C6-O6	9.45	125.57	119.90
117	C7	50	DG	N1-C6-O6	9.45	125.57	119.90
20	AK	14	DG	N1-C6-O6	9.45	125.57	119.90
42	Ai	23	DG	N1-C6-O6	9.45	125.57	119.90
109	Bs	6	DG	N1-C6-O6	9.45	125.57	119.90
1	AA	3317	DG	N1-C6-O6	9.45	125.57	119.90
49	As	10	DG	C5-C6-O6	-9.45	122.93	128.60
1	AA	5820	DG	N1-C6-O6	9.45	125.57	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
156	Ct	3	DG	N1-C6-O6	9.45	125.57	119.90
1	AA	3577	DG	N1-C6-O6	9.44	125.57	119.90
1	AA	3744	DG	N1-C6-O6	9.44	125.57	119.90
1	AA	2903	DG	N1-C6-O6	9.44	125.56	119.90
1	AA	5421	DG	N1-C6-O6	9.44	125.57	119.90
12	AC	10	DG	N1-C6-O6	9.44	125.56	119.90
68	BD	31	DG	N1-C6-O6	9.44	125.56	119.90
1	AA	3849	DG	N1-C6-O6	9.44	125.56	119.90
48	Ao	8	DG	C5-C6-O6	-9.44	122.94	128.60
69	BE	2	DG	N1-C6-O6	9.44	125.56	119.90
1	AA	6472	DG	O4'-C4'-C3'	-9.44	100.34	106.00
1	AA	7220	DG	N1-C6-O6	9.44	125.56	119.90
1	AA	7057	DG	N1-C6-O6	9.44	125.56	119.90
19	AJ	33	DG	N1-C6-O6	9.44	125.56	119.90
1	AA	4892	DG	N1-C6-O6	9.43	125.56	119.90
1	AA	6460	DG	N1-C6-O6	9.43	125.56	119.90
1	AA	4349	DG	N1-C6-O6	9.43	125.56	119.90
1	AA	1785	DG	N1-C6-O6	9.43	125.56	119.90
1	AA	6579	DG	N1-C6-O6	9.43	125.56	119.90
1	AA	5334	DG	N1-C6-O6	9.43	125.56	119.90
1	AA	6463	DG	N1-C6-O6	9.42	125.55	119.90
1	AA	1918	DG	N1-C6-O6	9.42	125.55	119.90
1	AA	1288	DG	N1-C6-O6	9.42	125.55	119.90
113	C3	26	DT	O4'-C1'-C2'	-9.42	98.36	105.90
1	AA	1825	DG	N1-C6-O6	9.42	125.55	119.90
1	AA	5066	DG	N1-C6-O6	9.42	125.55	119.90
152	Cp	36	DG	N1-C6-O6	9.42	125.55	119.90
159	Cw	7	DG	N1-C6-O6	9.41	125.55	119.90
1	AA	5977	DG	C5-C6-O6	-9.41	122.95	128.60
161	Cy	29	DG	N1-C6-O6	9.41	125.55	119.90
1	AA	5399	DG	N1-C6-O6	9.41	125.55	119.90
1	AA	7053	DG	N1-C6-O6	9.41	125.55	119.90
1	AA	3387	DG	C5-C6-O6	-9.41	122.95	128.60
2	A0	30	DG	N1-C6-O6	9.41	125.55	119.90
1	AA	847	DG	N1-C6-O6	9.41	125.54	119.90
105	Bo	46	DG	N1-C6-O6	9.41	125.54	119.90
105	Bo	65	DG	N1-C6-O6	9.41	125.54	119.90
5	A3	2	DG	N1-C6-O6	9.40	125.54	119.90
139	CV	16	DG	N1-C6-O6	9.40	125.54	119.90
1	AA	6173	DG	N1-C6-O6	9.40	125.54	119.90
1	AA	5010	DG	N1-C6-O6	9.40	125.54	119.90
9	A7	39	DG	N1-C6-O6	9.40	125.54	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
130	CM	15	DG	N1-C6-O6	9.40	125.54	119.90
46	Am	15	DG	N1-C6-O6	9.40	125.54	119.90
1	AA	3126	DG	N1-C6-O6	9.39	125.54	119.90
1	AA	3674	DG	N1-C6-O6	9.39	125.54	119.90
1	AA	4577	DG	N1-C6-O6	9.39	125.54	119.90
1	AA	5459	DG	N1-C6-O6	9.39	125.54	119.90
1	AA	4932	DG	N1-C6-O6	9.39	125.54	119.90
1	AA	5929	DG	O4'-C4'-C3'	-9.39	100.36	106.00
134	CQ	32	DA	O4'-C4'-C3'	-9.39	100.36	106.00
144	Cb	13	DG	N1-C6-O6	9.39	125.54	119.90
160	Cx	42	DA	P-O3'-C3'	9.39	130.97	119.70
1	AA	2698	DG	N1-C6-O6	9.39	125.53	119.90
1	AA	5020	DG	N1-C6-O6	9.39	125.53	119.90
83	BS	24	DG	N1-C6-O6	9.39	125.53	119.90
1	AA	5953	DT	O4'-C4'-C3'	-9.39	100.37	106.00
20	AK	19	DG	N1-C6-O6	9.39	125.53	119.90
44	Ak	35	DG	N1-C6-O6	9.39	125.53	119.90
151	Ck	33	DG	N1-C6-O6	9.39	125.53	119.90
1	AA	7184	DG	N1-C6-O6	9.39	125.53	119.90
129	CL	21	DG	N1-C6-O6	9.39	125.53	119.90
58	B2	11	DG	N1-C6-O6	9.38	125.53	119.90
1	AA	3915	DG	N1-C6-O6	9.38	125.53	119.90
1	AA	3816	DG	N1-C6-O6	9.38	125.53	119.90
12	AC	46	DG	N1-C6-O6	9.38	125.53	119.90
83	BS	3	DG	N1-C6-O6	9.38	125.53	119.90
44	Ak	39	DG	N1-C6-O6	9.37	125.52	119.90
1	AA	362	DG	N1-C6-O6	9.37	125.52	119.90
1	AA	2263	DG	O4'-C4'-C3'	-9.37	100.38	106.00
81	BQ	6	DA	O4'-C4'-C3'	-9.37	100.38	106.00
12	AC	47	DG	N1-C6-O6	9.37	125.52	119.90
18	AI	24	DA	O4'-C1'-N9	9.37	114.56	108.00
123	CF	11	DG	N1-C6-O6	9.37	125.52	119.90
1	AA	5395	DG	N1-C6-O6	9.36	125.52	119.90
1	AA	6416	DG	N1-C6-O6	9.36	125.52	119.90
23	AN	1	DG	N1-C6-O6	9.37	125.52	119.90
1	AA	1456	DG	N1-C6-O6	9.36	125.52	119.90
121	CD	24	DG	N1-C6-O6	9.36	125.52	119.90
1	AA	3260	DG	N1-C6-O6	9.36	125.52	119.90
1	AA	6067	DG	N1-C6-O6	9.36	125.52	119.90
141	CX	16	DG	N1-C6-O6	9.36	125.52	119.90
19	AJ	13	DG	N1-C6-O6	9.36	125.51	119.90
1	AA	378	DG	N1-C6-O6	9.36	125.51	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	AT	31	DG	N1-C6-O6	9.36	125.51	119.90
120	CC	31	DG	N1-C6-O6	9.36	125.51	119.90
1	AA	3156	DG	N1-C6-O6	9.35	125.51	119.90
1	AA	6924	DA	P-O3'-C3'	9.35	130.92	119.70
105	Bo	65	DG	P-O3'-C3'	9.35	130.92	119.70
116	C6	9	DG	N1-C6-O6	9.35	125.51	119.90
1	AA	4032	DG	N1-C6-O6	9.35	125.51	119.90
1	AA	5303	DG	N1-C6-O6	9.35	125.51	119.90
47	An	32	DG	N1-C6-O6	9.35	125.51	119.90
56	B0	13	DG	N1-C6-O6	9.35	125.51	119.90
132	CO	44	DG	N1-C6-O6	9.35	125.51	119.90
1	AA	6464	DG	N1-C6-O6	9.34	125.50	119.90
161	Cy	63	DG	N1-C6-O6	9.34	125.50	119.90
1	AA	1477	DG	C5-C6-O6	-9.34	123.00	128.60
1	AA	2023	DG	N1-C6-O6	9.34	125.50	119.90
1	AA	4821	DT	P-O3'-C3'	9.34	130.90	119.70
1	AA	2475	DG	N1-C6-O6	9.33	125.50	119.90
1	AA	191	DG	N1-C6-O6	9.33	125.50	119.90
1	AA	4056	DG	N1-C6-O6	9.33	125.50	119.90
84	BT	38	DG	N1-C6-O6	9.33	125.50	119.90
106	Bp	33	DG	N1-C6-O6	9.33	125.50	119.90
1	AA	7219	DG	N1-C6-O6	9.33	125.50	119.90
113	C3	42	DG	N1-C6-O6	9.33	125.50	119.90
1	AA	2252	DG	N1-C6-O6	9.33	125.50	119.90
1	AA	5893	DG	N1-C6-O6	9.33	125.50	119.90
1	AA	6445	DG	N1-C6-O6	9.33	125.50	119.90
1	AA	167	DG	N1-C6-O6	9.32	125.49	119.90
1	AA	1159	DG	N1-C6-O6	9.32	125.49	119.90
1	AA	5253	DG	N1-C6-O6	9.32	125.49	119.90
1	AA	6111	DG	N1-C6-O6	9.32	125.50	119.90
1	AA	7004	DG	N1-C6-O6	9.32	125.49	119.90
109	Bs	46	DG	N1-C6-O6	9.32	125.50	119.90
1	AA	1513	DG	N1-C6-O6	9.32	125.49	119.90
1	AA	3927	DG	N1-C6-O6	9.32	125.49	119.90
57	B1	55	DG	N1-C6-O6	9.32	125.49	119.90
142	CY	32	DG	N1-C6-O6	9.32	125.49	119.90
68	BD	33	DA	O4'-C4'-C3'	-9.32	100.41	106.00
102	Bl	10	DG	P-O3'-C3'	9.31	130.88	119.70
1	AA	2	DG	N1-C6-O6	9.31	125.49	119.90
1	AA	929	DG	N1-C6-O6	9.31	125.49	119.90
159	Cw	26	DG	N1-C6-O6	9.31	125.49	119.90
1	AA	5830	DG	N1-C6-O6	9.31	125.48	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
66	BB	24	DG	N1-C6-O6	9.31	125.48	119.90
1	AA	3350	DG	N1-C6-O6	9.31	125.48	119.90
1	AA	6718	DG	N1-C6-O6	9.31	125.48	119.90
30	AU	42	DG	N1-C6-O6	9.31	125.48	119.90
1	AA	3385	DG	N1-C6-O6	9.31	125.48	119.90
1	AA	6073	DG	N1-C6-O6	9.30	125.48	119.90
12	AC	26	DG	N1-C6-O6	9.31	125.48	119.90
76	BL	24	DG	N1-C6-O6	9.30	125.48	119.90
129	CL	19	DG	N1-C6-O6	9.30	125.48	119.90
1	AA	3025	DG	N1-C6-O6	9.30	125.48	119.90
1	AA	6595	DG	N1-C6-O6	9.30	125.48	119.90
74	BJ	10	DG	N1-C6-O6	9.30	125.48	119.90
119	CB	30	DG	N1-C6-O6	9.30	125.48	119.90
137	CT	35	DG	N1-C6-O6	9.30	125.48	119.90
1	AA	1821	DG	N1-C6-O6	9.30	125.48	119.90
1	AA	3355	DG	N1-C6-O6	9.30	125.48	119.90
36	Ab	31	DG	N1-C6-O6	9.30	125.48	119.90
1	AA	3822	DG	N1-C6-O6	9.30	125.48	119.90
43	Aj	39	DG	N1-C6-O6	9.30	125.48	119.90
91	Ba	11	DG	N1-C6-O6	9.30	125.48	119.90
137	CT	48	DG	N1-C6-O6	9.30	125.48	119.90
1	AA	3291	DG	N1-C6-O6	9.29	125.48	119.90
1	AA	5287	DG	N1-C6-O6	9.29	125.48	119.90
16	AG	16	DC	O4'-C4'-C3'	-9.29	100.42	106.00
1	AA	2699	DG	N1-C6-O6	9.29	125.47	119.90
147	Ce	13	DG	N1-C6-O6	9.29	125.47	119.90
16	AG	27	DG	N1-C6-O6	9.29	125.47	119.90
94	Bd	10	DG	N1-C6-O6	9.29	125.47	119.90
105	Bo	66	DG	N1-C6-O6	9.29	125.47	119.90
66	BB	28	DG	N1-C6-O6	9.29	125.47	119.90
99	Bi	28	DG	N1-C6-O6	9.29	125.47	119.90
1	AA	3419	DG	N1-C6-O6	9.28	125.47	119.90
9	A7	15	DG	N1-C6-O6	9.28	125.47	119.90
1	AA	3328	DG	N1-C6-O6	9.28	125.47	119.90
1	AA	6979	DG	N1-C6-O6	9.28	125.47	119.90
7	A5	14	DC	O4'-C4'-C3'	-9.28	100.43	106.00
115	C5	57	DG	N1-C6-O6	9.28	125.47	119.90
153	Cq	6	DG	N1-C6-O6	9.28	125.47	119.90
103	Bm	33	DG	C5-C6-O6	-9.28	123.03	128.60
1	AA	5005	DG	N1-C6-O6	9.27	125.47	119.90
116	C6	38	DG	N1-C6-O6	9.27	125.46	119.90
1	AA	5398	DG	N1-C6-O6	9.27	125.46	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A2	10	DA	P-O3'-C3'	9.27	130.83	119.70
105	Bo	26	DG	N1-C6-O6	9.27	125.46	119.90
152	Cp	33	DG	N1-C6-O6	9.27	125.46	119.90
1	AA	1650	DG	C5-C6-O6	-9.27	123.04	128.60
1	AA	5266	DT	O4'-C1'-C2'	-9.27	98.48	105.90
12	AC	19	DG	N1-C6-O6	9.27	125.46	119.90
12	AC	31	DG	N1-C6-O6	9.27	125.46	119.90
22	AM	6	DG	N1-C6-O6	9.26	125.46	119.90
1	AA	2035	DG	N1-C6-O6	9.26	125.46	119.90
1	AA	3236	DC	OP1-P-O3'	-9.26	84.83	105.20
1	AA	5065	DG	N1-C6-O6	9.26	125.46	119.90
1	AA	6468	DG	N1-C6-O6	9.26	125.46	119.90
80	BP	18	DT	O4'-C4'-C3'	-9.26	100.44	106.00
105	Bo	57	DG	N1-C6-O6	9.26	125.46	119.90
120	CC	46	DG	C5-C6-O6	-9.26	123.04	128.60
98	Bh	36	DG	N1-C6-O6	9.26	125.46	119.90
1	AA	1999	DG	N1-C6-O6	9.26	125.45	119.90
1	AA	4123	DT	O4'-C4'-C3'	-9.26	100.45	106.00
1	AA	5410	DC	P-O3'-C3'	9.26	130.81	119.70
1	AA	3163	DG	N1-C6-O6	9.25	125.45	119.90
56	B0	15	DG	N1-C6-O6	9.25	125.45	119.90
61	B5	4	DG	N1-C6-O6	9.25	125.45	119.90
1	AA	937	DG	N1-C6-O6	9.25	125.45	119.90
1	AA	5739	DA	O4'-C4'-C3'	-9.25	100.45	106.00
36	Ab	4	DG	N1-C6-O6	9.25	125.45	119.90
1	AA	1330	DG	N1-C6-O6	9.25	125.45	119.90
1	AA	5487	DG	N1-C6-O6	9.25	125.45	119.90
1	AA	5884	DG	N1-C6-O6	9.25	125.45	119.90
1	AA	6257	DG	N1-C6-O6	9.25	125.45	119.90
92	Bb	45	DG	N1-C6-O6	9.25	125.45	119.90
93	Bc	41	DG	N1-C6-O6	9.25	125.45	119.90
53	Ax	44	DG	N1-C6-O6	9.24	125.45	119.90
92	Bb	13	DG	N1-C6-O6	9.24	125.45	119.90
98	Bh	13	DG	N1-C6-O6	9.24	125.45	119.90
1	AA	1390	DG	C5-C6-O6	-9.24	123.06	128.60
1	AA	5178	DG	N1-C6-O6	9.24	125.44	119.90
101	Bk	9	DG	N1-C6-O6	9.24	125.45	119.90
121	CD	12	DG	N1-C6-O6	9.24	125.44	119.90
1	AA	2117	DG	N1-C6-O6	9.24	125.44	119.90
1	AA	6604	DG	N1-C6-O6	9.24	125.44	119.90
1	AA	5241	DG	C5-C6-O6	-9.24	123.06	128.60
145	Cc	33	DG	N1-C6-O6	9.24	125.44	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
45	Al	43	DT	P-O3'-C3'	9.24	130.78	119.70
125	CH	10	DG	N1-C6-O6	9.24	125.44	119.90
59	B3	6	DG	N1-C6-O6	9.23	125.44	119.90
121	CD	11	DG	N1-C6-O6	9.23	125.44	119.90
1	AA	656	DG	N1-C6-O6	9.23	125.44	119.90
1	AA	2764	DG	N1-C6-O6	9.23	125.44	119.90
44	Ak	30	DA	O4'-C4'-C3'	-9.23	100.46	106.00
56	B0	45	DG	N1-C6-O6	9.23	125.44	119.90
78	BN	60	DG	N1-C6-O6	9.23	125.44	119.90
144	Cb	6	DG	N1-C6-O6	9.23	125.44	119.90
1	AA	3056	DG	N1-C6-O6	9.23	125.44	119.90
148	Cf	9	DG	N1-C6-O6	9.23	125.44	119.90
1	AA	2911	DG	N1-C6-O6	9.23	125.44	119.90
1	AA	4074	DG	N1-C6-O6	9.23	125.44	119.90
91	Ba	29	DA	O4'-C4'-C3'	-9.23	100.47	106.00
1	AA	1913	DG	C5-C6-O6	-9.22	123.06	128.60
1	AA	2260	DG	N1-C6-O6	9.22	125.44	119.90
1	AA	4870	DG	N1-C6-O6	9.22	125.43	119.90
1	AA	5182	DG	N1-C6-O6	9.22	125.43	119.90
126	CI	31	DG	N1-C6-O6	9.22	125.44	119.90
1	AA	4980	DG	N1-C6-O6	9.22	125.43	119.90
1	AA	6895	DG	N1-C6-O6	9.22	125.43	119.90
141	CX	4	DG	N1-C6-O6	9.22	125.43	119.90
113	C3	15	DG	N1-C6-O6	9.22	125.43	119.90
1	AA	1077	DG	N1-C6-O6	9.22	125.43	119.90
8	A6	39	DG	N1-C6-O6	9.22	125.43	119.90
10	A8	14	DG	N1-C6-O6	9.22	125.43	119.90
13	AD	16	DG	N1-C6-O6	9.22	125.43	119.90
18	AI	28	DG	N1-C6-O6	9.22	125.43	119.90
52	Aw	25	DG	N1-C6-O6	9.22	125.43	119.90
159	Cw	26	DG	P-O3'-C3'	9.22	130.76	119.70
1	AA	1063	DT	P-O3'-C3'	9.22	130.76	119.70
1	AA	3294	DG	N1-C6-O6	9.21	125.43	119.90
1	AA	3329	DG	N1-C6-O6	9.21	125.43	119.90
35	AZ	8	DG	N1-C6-O6	9.21	125.43	119.90
36	Ab	21	DG	N1-C6-O6	9.21	125.43	119.90
1	AA	2745	DG	N1-C6-O6	9.21	125.43	119.90
1	AA	5736	DG	N1-C6-O6	9.21	125.43	119.90
1	AA	6300	DA	O4'-C1'-N9	9.21	114.45	108.00
79	BO	7	DG	C5-C6-O6	-9.21	123.07	128.60
104	Bn	17	DG	N1-C6-O6	9.21	125.43	119.90
120	CC	43	DG	N1-C6-O6	9.21	125.43	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
162	Cz	16	DG	N1-C6-O6	9.21	125.43	119.90
144	Cb	11	DA	P-O3'-C3'	9.21	130.75	119.70
1	AA	807	DG	N1-C6-O6	9.21	125.42	119.90
1	AA	1270	DG	N1-C6-O6	9.21	125.42	119.90
70	BF	6	DG	N1-C6-O6	9.21	125.42	119.90
18	AI	6	DG	N1-C6-O6	9.21	125.42	119.90
1	AA	711	DG	N1-C6-O6	9.20	125.42	119.90
1	AA	6511	DG	N1-C6-O6	9.21	125.42	119.90
29	AT	40	DG	N1-C6-O6	9.21	125.42	119.90
1	AA	31	DG	N1-C6-O6	9.20	125.42	119.90
1	AA	5769	DG	N1-C6-O6	9.20	125.42	119.90
75	BK	14	DA	P-O3'-C3'	9.20	130.74	119.70
122	CE	17	DG	N1-C6-O6	9.20	125.42	119.90
132	CO	12	DG	N1-C6-O6	9.20	125.42	119.90
1	AA	94	DG	N1-C6-O6	9.20	125.42	119.90
1	AA	5344	DG	N1-C6-O6	9.20	125.42	119.90
15	AF	13	DG	N1-C6-O6	9.20	125.42	119.90
1	AA	3066	DG	N1-C6-O6	9.20	125.42	119.90
1	AA	4292	DG	N1-C6-O6	9.20	125.42	119.90
30	AU	43	DG	N1-C6-O6	9.20	125.42	119.90
1	AA	4887	DG	N1-C6-O6	9.20	125.42	119.90
36	Ab	41	DG	N1-C6-O6	9.20	125.42	119.90
39	Af	2	DG	N1-C6-O6	9.20	125.42	119.90
91	Ba	6	DG	N1-C6-O6	9.20	125.42	119.90
100	Bj	14	DG	N1-C6-O6	9.20	125.42	119.90
152	Cp	29	DG	N1-C6-O6	9.20	125.42	119.90
43	Aj	29	DG	N1-C6-O6	9.19	125.42	119.90
1	AA	2455	DG	N1-C6-O6	9.19	125.42	119.90
1	AA	4376	DG	N1-C6-O6	9.19	125.42	119.90
40	Ag	46	DC	O4'-C4'-C3'	-9.19	100.48	106.00
14	AE	34	DG	P-O3'-C3'	9.19	130.73	119.70
70	BF	4	DG	N1-C6-O6	9.19	125.42	119.90
108	Br	7	DG	N1-C6-O6	9.19	125.42	119.90
121	CD	37	DG	N1-C6-O6	9.19	125.42	119.90
144	Cb	4	DG	N1-C6-O6	9.19	125.42	119.90
1	AA	378	DG	OP2-P-O3'	9.19	125.41	105.20
1	AA	3799	DG	N1-C6-O6	9.19	125.41	119.90
1	AA	6307	DG	N1-C6-O6	9.19	125.41	119.90
1	AA	7240	DG	N1-C6-O6	9.19	125.41	119.90
44	Ak	10	DG	C5-C6-O6	-9.19	123.09	128.60
48	Ao	17	DG	N1-C6-O6	9.19	125.41	119.90
1	AA	899	DG	N1-C6-O6	9.19	125.41	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5205	DG	N1-C6-O6	9.19	125.41	119.90
46	Am	27	DG	N1-C6-O6	9.19	125.41	119.90
1	AA	3111	DG	N1-C6-O6	9.18	125.41	119.90
1	AA	6625	DG	N1-C6-O6	9.18	125.41	119.90
40	Ag	24	DG	N1-C6-O6	9.18	125.41	119.90
1	AA	123	DG	N1-C6-O6	9.18	125.41	119.90
1	AA	2692	DG	N1-C6-O6	9.18	125.41	119.90
112	C2	10	DG	N1-C6-O6	9.18	125.41	119.90
1	AA	219	DG	N1-C6-O6	9.18	125.41	119.90
1	AA	4886	DG	N1-C6-O6	9.18	125.41	119.90
1	AA	7028	DG	N1-C6-O6	9.18	125.41	119.90
8	A6	40	DG	N1-C6-O6	9.18	125.41	119.90
116	C6	27	DG	N1-C6-O6	9.18	125.41	119.90
1	AA	6421	DG	N1-C6-O6	9.18	125.41	119.90
26	AQ	47	DG	N1-C6-O6	9.18	125.41	119.90
1	AA	440	DG	N1-C6-O6	9.17	125.40	119.90
1	AA	5836	DG	N1-C6-O6	9.17	125.40	119.90
21	AL	19	DG	N1-C6-O6	9.17	125.41	119.90
1	AA	2720	DG	N1-C6-O6	9.17	125.40	119.90
1	AA	3369	DG	N1-C6-O6	9.17	125.40	119.90
1	AA	6457	DG	N1-C6-O6	9.17	125.40	119.90
50	Au	1	DG	N1-C6-O6	9.17	125.40	119.90
51	Av	12	DG	N1-C6-O6	9.17	125.40	119.90
1	AA	30	DG	N1-C6-O6	9.17	125.40	119.90
153	Cq	18	DG	N1-C6-O6	9.17	125.40	119.90
157	Cu	9	DG	N1-C6-O6	9.17	125.40	119.90
1	AA	3810	DG	N1-C6-O6	9.17	125.40	119.90
66	BB	3	DG	N1-C6-O6	9.17	125.40	119.90
109	Bs	1	DG	N1-C6-O6	9.17	125.40	119.90
1	AA	6085	DG	N1-C6-O6	9.16	125.40	119.90
107	Bq	27	DG	N1-C6-O6	9.16	125.40	119.90
1	AA	450	DG	N1-C6-O6	9.16	125.40	119.90
1	AA	607	DA	P-O3'-C3'	9.16	130.69	119.70
1	AA	2984	DG	C5-C6-O6	-9.16	123.10	128.60
1	AA	5027	DG	N1-C6-O6	9.16	125.40	119.90
7	A5	28	DG	N1-C6-O6	9.16	125.40	119.90
1	AA	3358	DG	N1-C6-O6	9.16	125.40	119.90
1	AA	3417	DG	N1-C6-O6	9.16	125.40	119.90
1	AA	4002	DG	N1-C6-O6	9.16	125.40	119.90
7	A5	7	DG	N1-C6-O6	9.16	125.40	119.90
35	AZ	49	DG	N1-C6-O6	9.16	125.40	119.90
162	Cz	39	DG	N1-C6-O6	9.16	125.40	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	968	DG	N1-C6-O6	9.16	125.39	119.90
93	Bc	50	DG	N1-C6-O6	9.16	125.40	119.90
94	Bd	8	DG	N1-C6-O6	9.16	125.40	119.90
1	AA	1588	DG	N1-C6-O6	9.16	125.39	119.90
29	AT	30	DG	N1-C6-O6	9.16	125.39	119.90
34	AY	14	DG	N1-C6-O6	9.16	125.39	119.90
122	CE	30	DT	O4'-C4'-C3'	-9.16	100.50	106.00
147	Ce	45	DG	N1-C6-O6	9.16	125.39	119.90
44	Ak	33	DG	N1-C6-O6	9.16	125.39	119.90
131	CN	30	DA	O4'-C4'-C3'	-9.16	100.51	106.00
1	AA	933	DG	N1-C6-O6	9.15	125.39	119.90
40	Ag	2	DG	N1-C6-O6	9.15	125.39	119.90
82	BR	21	DG	N1-C6-O6	9.15	125.39	119.90
1	AA	4514	DG	N1-C6-O6	9.15	125.39	119.90
18	AI	34	DG	N1-C6-O6	9.15	125.39	119.90
96	Bf	47	DG	N1-C6-O6	9.15	125.39	119.90
55	Az	26	DG	N1-C6-O6	9.15	125.39	119.90
1	AA	2680	DG	N1-C6-O6	9.15	125.39	119.90
1	AA	3381	DG	N1-C6-O6	9.15	125.39	119.90
38	Ad	38	DG	N1-C6-O6	9.15	125.39	119.90
115	C5	30	DG	N1-C6-O6	9.15	125.39	119.90
130	CM	36	DG	N1-C6-O6	9.15	125.39	119.90
3	A1	18	DT	O4'-C1'-C2'	-9.15	98.58	105.90
92	Bb	67	DG	N1-C6-O6	9.15	125.39	119.90
130	CM	30	DG	N1-C6-O6	9.14	125.39	119.90
1	AA	6952	DG	N1-C6-O6	9.14	125.39	119.90
7	A5	35	DG	N1-C6-O6	9.14	125.39	119.90
8	A6	35	DG	N1-C6-O6	9.14	125.39	119.90
26	AQ	17	DG	N1-C6-O6	9.14	125.39	119.90
53	Ax	22	DG	N1-C6-O6	9.14	125.39	119.90
68	BD	16	DG	N1-C6-O6	9.14	125.39	119.90
152	Cp	35	DG	N1-C6-O6	9.14	125.39	119.90
157	Cu	49	DG	N1-C6-O6	9.14	125.39	119.90
1	AA	2026	DG	N1-C6-O6	9.14	125.39	119.90
95	Be	1	DG	N1-C6-O6	9.14	125.39	119.90
120	CC	13	DC	O4'-C4'-C3'	-9.14	100.52	106.00
1	AA	2957	DG	N1-C6-O6	9.14	125.38	119.90
45	Al	35	DG	C5-C6-O6	-9.14	123.12	128.60
98	Bh	20	DG	N1-C6-O6	9.14	125.39	119.90
128	CK	31	DG	P-O3'-C3'	9.14	130.67	119.70
1	AA	4628	DG	N1-C6-O6	9.14	125.38	119.90
147	Ce	43	DA	P-O3'-C3'	9.14	130.67	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2044	DG	N1-C6-O6	9.14	125.38	119.90
101	Bk	10	DG	N1-C6-O6	9.14	125.38	119.90
124	CG	22	DG	N1-C6-O6	9.14	125.38	119.90
1	AA	3382	DG	N1-C6-O6	9.13	125.38	119.90
1	AA	6399	DG	C5-C6-O6	-9.13	123.12	128.60
9	A7	14	DG	N1-C6-O6	9.13	125.38	119.90
66	BB	11	DG	N1-C6-O6	9.13	125.38	119.90
71	BG	27	DG	N1-C6-O6	9.13	125.38	119.90
124	CG	14	DG	N1-C6-O6	9.13	125.38	119.90
1	AA	7221	DG	N1-C6-O6	9.13	125.38	119.90
159	Cw	18	DG	N1-C6-O6	9.13	125.38	119.90
1	AA	6509	DG	N1-C6-O6	9.13	125.38	119.90
40	Ag	18	DG	N1-C6-O6	9.13	125.38	119.90
104	Bn	12	DG	N1-C6-O6	9.13	125.38	119.90
108	Br	42	DG	N1-C6-O6	9.13	125.38	119.90
157	Cu	57	DG	N1-C6-O6	9.13	125.38	119.90
1	AA	1717	DG	N1-C6-O6	9.13	125.38	119.90
1	AA	2712	DG	N1-C6-O6	9.13	125.38	119.90
1	AA	3036	DG	N1-C6-O6	9.13	125.38	119.90
51	Av	21	DG	N1-C6-O6	9.13	125.38	119.90
1	AA	1872	DG	N1-C6-O6	9.12	125.38	119.90
1	AA	7074	DG	N1-C6-O6	9.13	125.38	119.90
1	AA	5709	DG	N1-C6-O6	9.12	125.37	119.90
23	AN	27	DG	N1-C6-O6	9.12	125.37	119.90
1	AA	6403	DG	N1-C6-O6	9.12	125.37	119.90
19	AJ	30	DG	N1-C6-O6	9.12	125.37	119.90
132	CO	6	DG	N1-C6-O6	9.12	125.37	119.90
155	Cs	14	DG	N1-C6-O6	9.12	125.37	119.90
1	AA	6527	DG	N1-C6-O6	9.12	125.37	119.90
126	CI	5	DG	N1-C6-O6	9.12	125.37	119.90
159	Cw	33	DA	O4'-C4'-C3'	-9.12	100.53	106.00
1	AA	4767	DG	N1-C6-O6	9.12	125.37	119.90
109	Bs	48	DG	N1-C6-O6	9.12	125.37	119.90
1	AA	2290	DG	N1-C6-O6	9.12	125.37	119.90
1	AA	3771	DG	N1-C6-O6	9.12	125.37	119.90
1	AA	4741	DG	N1-C6-O6	9.12	125.37	119.90
1	AA	5799	DG	N1-C6-O6	9.11	125.37	119.90
1	AA	6461	DG	C5-C6-O6	-9.12	123.13	128.60
31	AV	39	DG	N1-C6-O6	9.12	125.37	119.90
46	Am	40	DA	P-O3'-C3'	9.11	130.64	119.70
102	Bl	17	DG	N1-C6-O6	9.12	125.37	119.90
105	Bo	40	DG	N1-C6-O6	9.11	125.37	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
128	CK	34	DG	N1-C6-O6	9.11	125.37	119.90
129	CL	4	DG	N1-C6-O6	9.12	125.37	119.90
1	AA	944	DG	N1-C6-O6	9.11	125.37	119.90
1	AA	2323	DG	N1-C6-O6	9.11	125.37	119.90
1	AA	2445	DG	N1-C6-O6	9.11	125.36	119.90
1	AA	7238	DG	N1-C6-O6	9.11	125.36	119.90
9	A7	23	DG	N1-C6-O6	9.11	125.36	119.90
37	Ac	53	DG	N1-C6-O6	9.11	125.36	119.90
62	B6	29	DG	N1-C6-O6	9.11	125.36	119.90
104	Bn	60	DG	N1-C6-O6	9.11	125.36	119.90
105	Bo	22	DG	N1-C6-O6	9.11	125.36	119.90
109	Bs	2	DG	N1-C6-O6	9.11	125.36	119.90
1	AA	1618	DG	N1-C6-O6	9.10	125.36	119.90
71	BG	18	DA	O4'-C4'-C3'	-9.10	100.54	106.00
1	AA	2659	DG	N1-C6-O6	9.10	125.36	119.90
1	AA	3619	DG	N1-C6-O6	9.10	125.36	119.90
56	B0	29	DG	N1-C6-O6	9.10	125.36	119.90
135	CR	26	DT	O4'-C1'-C2'	-9.10	98.62	105.90
1	AA	3533	DG	N1-C6-O6	9.10	125.36	119.90
1	AA	3767	DG	N1-C6-O6	9.10	125.36	119.90
33	AX	6	DA	O4'-C4'-C3'	-9.10	100.54	106.00
46	Am	42	DG	N1-C6-O6	9.10	125.36	119.90
1	AA	6928	DG	N1-C6-O6	9.10	125.36	119.90
1	AA	1939	DG	N1-C6-O6	9.10	125.36	119.90
1	AA	2311	DG	N1-C6-O6	9.10	125.36	119.90
1	AA	7239	DG	N1-C6-O6	9.10	125.36	119.90
21	AL	20	DG	N1-C6-O6	9.10	125.36	119.90
106	Bp	8	DG	N1-C6-O6	9.10	125.36	119.90
112	C2	29	DG	N1-C6-O6	9.10	125.36	119.90
150	Ch	15	DG	N1-C6-O6	9.10	125.36	119.90
1	AA	6043	DG	N1-C6-O6	9.10	125.36	119.90
33	AX	38	DA	O4'-C4'-C3'	-9.10	100.54	106.00
95	Be	12	DG	N1-C6-O6	9.10	125.36	119.90
1	AA	3283	DG	N1-C6-O6	9.09	125.36	119.90
1	AA	5288	DG	N1-C6-O6	9.09	125.36	119.90
2	A0	41	DG	N1-C6-O6	9.09	125.36	119.90
52	Aw	37	DG	N1-C6-O6	9.09	125.36	119.90
1	AA	1497	DG	N1-C6-O6	9.09	125.35	119.90
38	Ad	28	DG	N1-C6-O6	9.09	125.35	119.90
79	BO	42	DC	O4'-C4'-C3'	-9.09	100.55	106.00
1	AA	923	DG	N1-C6-O6	9.09	125.35	119.90
1	AA	2891	DG	N1-C6-O6	9.09	125.35	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	4495	DG	N1-C6-O6	9.09	125.35	119.90
143	CZ	1	DG	N1-C6-O6	9.09	125.35	119.90
1	AA	724	DG	N1-C6-O6	9.09	125.35	119.90
1	AA	5586	DG	C5-C6-O6	-9.09	123.15	128.60
1	AA	7127	DG	N1-C6-O6	9.09	125.35	119.90
90	BZ	9	DG	N1-C6-O6	9.09	125.35	119.90
132	CO	14	DG	O4'-C4'-C3'	-9.09	100.55	106.00
137	CT	33	DG	N1-C6-O6	9.09	125.35	119.90
1	AA	60	DG	N1-C6-O6	9.08	125.35	119.90
67	BC	21	DG	N1-C6-O6	9.08	125.35	119.90
109	Bs	11	DG	N1-C6-O6	9.08	125.35	119.90
1	AA	5982	DG	N1-C6-O6	9.08	125.35	119.90
1	AA	7123	DG	N1-C6-O6	9.08	125.35	119.90
1	AA	1819	DG	N1-C6-O6	9.08	125.35	119.90
34	AY	3	DG	N1-C6-O6	9.08	125.35	119.90
1	AA	3912	DG	N1-C6-O6	9.08	125.35	119.90
13	AD	47	DG	N1-C6-O6	9.08	125.35	119.90
14	AE	28	DG	N1-C6-O6	9.08	125.35	119.90
50	Au	7	DG	N1-C6-O6	9.08	125.35	119.90
1	AA	33	DG	N1-C6-O6	9.08	125.35	119.90
1	AA	4386	DG	N1-C6-O6	9.08	125.35	119.90
13	AD	44	DG	N1-C6-O6	9.08	125.35	119.90
1	AA	7155	DG	N1-C6-O6	9.07	125.34	119.90
65	B9	17	DG	N1-C6-O6	9.07	125.34	119.90
1	AA	1229	DG	N1-C6-O6	9.07	125.34	119.90
1	AA	3776	DG	N1-C6-O6	9.07	125.34	119.90
113	C3	39	DG	N1-C6-O6	9.07	125.34	119.90
115	C5	8	DC	O4'-C4'-C3'	-9.07	100.56	106.00
122	CE	28	DG	N1-C6-O6	9.07	125.34	119.90
1	AA	2625	DG	N1-C6-O6	9.07	125.34	119.90
1	AA	3424	DG	N1-C6-O6	9.07	125.34	119.90
1	AA	3901	DG	N1-C6-O6	9.07	125.34	119.90
1	AA	7246	DG	N1-C6-O6	9.07	125.34	119.90
4	A2	11	DG	N1-C6-O6	9.07	125.34	119.90
9	A7	36	DG	N1-C6-O6	9.07	125.34	119.90
1	AA	2628	DG	N1-C6-O6	9.07	125.34	119.90
1	AA	2658	DG	N1-C6-O6	9.07	125.34	119.90
1	AA	3678	DG	N1-C6-O6	9.07	125.34	119.90
44	Ak	25	DG	N1-C6-O6	9.07	125.34	119.90
76	BL	43	DG	N1-C6-O6	9.07	125.34	119.90
1	AA	3829	DG	N1-C6-O6	9.07	125.34	119.90
1	AA	4323	DG	N1-C6-O6	9.07	125.34	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	4393	DG	N1-C6-O6	9.07	125.34	119.90
1	AA	4462	DG	N1-C6-O6	9.07	125.34	119.90
1	AA	4751	DG	N1-C6-O6	9.07	125.34	119.90
7	A5	1	DG	C5-C6-O6	-9.06	123.16	128.60
44	Ak	23	DG	N1-C6-O6	9.06	125.34	119.90
93	Bc	39	DG	N1-C6-O6	9.06	125.34	119.90
1	AA	332	DG	N1-C6-O6	9.06	125.34	119.90
1	AA	5426	DG	N1-C6-O6	9.06	125.34	119.90
133	CP	40	DG	N1-C6-O6	9.06	125.34	119.90
40	Ag	35	DG	N1-C6-O6	9.06	125.33	119.90
137	CT	47	DG	N1-C6-O6	9.06	125.33	119.90
1	AA	6549	DG	N1-C6-O6	9.06	125.33	119.90
105	Bo	24	DG	N1-C6-O6	9.06	125.33	119.90
1	AA	1637	DG	N1-C6-O6	9.05	125.33	119.90
1	AA	2460	DG	C5-C6-O6	-9.05	123.17	128.60
1	AA	2637	DG	N1-C6-O6	9.06	125.33	119.90
83	BS	32	DG	C5-C6-O6	-9.06	123.17	128.60
1	AA	2002	DG	N1-C6-O6	9.05	125.33	119.90
1	AA	3689	DG	N1-C6-O6	9.05	125.33	119.90
2	A0	27	DG	N1-C6-O6	9.05	125.33	119.90
33	AX	10	DG	N1-C6-O6	9.05	125.33	119.90
102	Bl	16	DG	N1-C6-O6	9.05	125.33	119.90
137	CT	44	DG	N1-C6-O6	9.05	125.33	119.90
1	AA	4547	DG	N1-C6-O6	9.05	125.33	119.90
96	Bf	28	DG	N1-C6-O6	9.05	125.33	119.90
108	Br	27	DG	C5-C6-O6	-9.05	123.17	128.60
144	Cb	8	DG	N1-C6-O6	9.05	125.33	119.90
1	AA	2554	DC	P-O3'-C3'	9.05	130.56	119.70
5	A3	17	DG	N1-C6-O6	9.05	125.33	119.90
1	AA	2605	DT	O4'-C4'-C3'	-9.05	100.57	106.00
1	AA	3900	DG	N1-C6-O6	9.05	125.33	119.90
81	BQ	15	DG	N1-C6-O6	9.05	125.33	119.90
1	AA	4308	DG	N1-C6-O6	9.05	125.33	119.90
124	CG	9	DG	N1-C6-O6	9.05	125.33	119.90
128	CK	37	DG	N1-C6-O6	9.05	125.33	119.90
1	AA	149	DG	N1-C6-O6	9.04	125.33	119.90
1	AA	898	DG	N1-C6-O6	9.04	125.33	119.90
30	AU	26	DG	C5-C6-O6	-9.05	123.17	128.60
58	B2	16	DG	C5-C6-O6	-9.05	123.17	128.60
1	AA	3527	DG	N1-C6-O6	9.04	125.33	119.90
102	Bl	10	DG	N1-C6-O6	9.04	125.33	119.90
7	A5	16	DG	N1-C6-O6	9.04	125.33	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
83	BS	21	DG	N1-C6-O6	9.04	125.33	119.90
121	CD	23	DG	N1-C6-O6	9.04	125.33	119.90
1	AA	2573	DG	N1-C6-O6	9.04	125.32	119.90
104	Bn	11	DG	N1-C6-O6	9.04	125.32	119.90
1	AA	177	DG	N1-C6-O6	9.04	125.32	119.90
1	AA	1651	DG	N1-C6-O6	9.04	125.32	119.90
1	AA	3776	DG	P-O3'-C3'	9.04	130.54	119.70
137	CT	37	DG	N1-C6-O6	9.04	125.32	119.90
1	AA	1561	DG	N1-C6-O6	9.04	125.32	119.90
1	AA	3259	DG	N1-C6-O6	9.04	125.32	119.90
109	Bs	42	DG	N1-C6-O6	9.04	125.32	119.90
42	Ai	5	DG	N1-C6-O6	9.03	125.32	119.90
1	AA	317	DG	N1-C6-O6	9.03	125.32	119.90
1	AA	376	DG	N1-C6-O6	9.03	125.32	119.90
47	An	7	DG	N1-C6-O6	9.03	125.32	119.90
1	AA	1559	DG	N1-C6-O6	9.03	125.32	119.90
1	AA	4242	DG	N1-C6-O6	9.03	125.32	119.90
1	AA	4470	DG	N1-C6-O6	9.03	125.32	119.90
1	AA	6162	DG	N1-C6-O6	9.03	125.32	119.90
20	AK	37	DG	N1-C6-O6	9.03	125.32	119.90
80	BP	21	DG	N1-C6-O6	9.03	125.32	119.90
1	AA	863	DG	N1-C6-O6	9.03	125.32	119.90
4	A2	16	DG	N1-C6-O6	9.03	125.32	119.90
51	Av	7	DG	N1-C6-O6	9.03	125.32	119.90
1	AA	3844	DG	N1-C6-O6	9.03	125.32	119.90
1	AA	4571	DG	N1-C6-O6	9.03	125.32	119.90
1	AA	6095	DG	N1-C6-O6	9.03	125.32	119.90
1	AA	349	DG	N1-C6-O6	9.03	125.32	119.90
1	AA	4600	DC	O4'-C4'-C3'	-9.03	100.58	106.00
1	AA	5631	DG	N1-C6-O6	9.03	125.32	119.90
23	AN	44	DG	N1-C6-O6	9.03	125.31	119.90
127	CJ	57	DA	O4'-C4'-C3'	-9.03	100.58	106.00
2	A0	13	DA	O4'-C4'-C3'	-9.02	100.59	106.00
91	Ba	17	DG	N1-C6-O6	9.02	125.31	119.90
1	AA	1832	DG	N1-C6-O6	9.02	125.31	119.90
1	AA	3814	DG	N1-C6-O6	9.02	125.31	119.90
1	AA	4026	DG	N1-C6-O6	9.02	125.31	119.90
92	Bb	9	DG	N1-C6-O6	9.02	125.31	119.90
51	Av	34	DG	N1-C6-O6	9.02	125.31	119.90
67	BC	2	DG	N1-C6-O6	9.02	125.31	119.90
1	AA	1488	DG	N1-C6-O6	9.02	125.31	119.90
1	AA	2780	DC	P-O3'-C3'	9.02	130.52	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	4444	DG	N1-C6-O6	9.02	125.31	119.90
1	AA	5062	DG	N1-C6-O6	9.02	125.31	119.90
1	AA	7171	DG	N1-C6-O6	9.02	125.31	119.90
29	AT	47	DG	N1-C6-O6	9.02	125.31	119.90
100	Bj	21	DG	N1-C6-O6	9.02	125.31	119.90
107	Bq	25	DG	N1-C6-O6	9.02	125.31	119.90
1	AA	824	DG	N1-C6-O6	9.02	125.31	119.90
1	AA	4224	DG	N1-C6-O6	9.02	125.31	119.90
1	AA	4698	DG	N1-C6-O6	9.02	125.31	119.90
1	AA	5597	DG	N1-C6-O6	9.02	125.31	119.90
1	AA	3171	DG	N1-C6-O6	9.02	125.31	119.90
1	AA	4591	DG	N1-C6-O6	9.02	125.31	119.90
1	AA	5565	DG	N1-C6-O6	9.02	125.31	119.90
1	AA	3657	DG	N1-C6-O6	9.01	125.31	119.90
77	BM	39	DG	N1-C6-O6	9.01	125.31	119.90
125	CH	8	DG	N1-C6-O6	9.01	125.31	119.90
1	AA	3759	DG	N1-C6-O6	9.01	125.31	119.90
152	Cp	4	DG	N1-C6-O6	9.01	125.31	119.90
1	AA	5146	DG	N1-C6-O6	9.01	125.31	119.90
10	A8	7	DG	N1-C6-O6	9.01	125.31	119.90
12	AC	18	DC	O4'-C4'-C3'	-9.01	100.59	106.00
12	AC	37	DG	N1-C6-O6	9.01	125.31	119.90
57	B1	31	DG	N1-C6-O6	9.01	125.31	119.90
115	C5	29	DG	N1-C6-O6	9.01	125.31	119.90
1	AA	2040	DG	N1-C6-O6	9.01	125.31	119.90
1	AA	7011	DG	N1-C6-O6	9.01	125.31	119.90
1	AA	406	DG	N1-C6-O6	9.01	125.30	119.90
84	BT	39	DG	N1-C6-O6	9.01	125.30	119.90
1	AA	2004	DG	N1-C6-O6	9.01	125.30	119.90
38	Ad	47	DG	N1-C6-O6	9.01	125.30	119.90
1	AA	435	DG	N1-C6-O6	9.00	125.30	119.90
1	AA	845	DG	N1-C6-O6	9.00	125.30	119.90
1	AA	5432	DG	C5-C6-O6	-9.00	123.20	128.60
44	Ak	15	DG	N1-C6-O6	9.00	125.30	119.90
47	An	29	DG	N1-C6-O6	9.00	125.30	119.90
83	BS	25	DG	N1-C6-O6	9.00	125.30	119.90
125	CH	9	DG	N1-C6-O6	9.00	125.30	119.90
143	CZ	11	DG	N1-C6-O6	9.00	125.30	119.90
1	AA	34	DT	P-O3'-C3'	9.00	130.50	119.70
1	AA	1688	DG	N1-C6-O6	9.00	125.30	119.90
1	AA	1865	DG	N1-C6-O6	9.00	125.30	119.90
1	AA	3147	DG	N1-C6-O6	9.00	125.30	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3838	DG	N1-C6-O6	9.00	125.30	119.90
1	AA	3603	DG	N1-C6-O6	9.00	125.30	119.90
62	B6	40	DG	N1-C6-O6	9.00	125.30	119.90
115	C5	61	DG	N1-C6-O6	9.00	125.30	119.90
1	AA	693	DG	N1-C6-O6	9.00	125.30	119.90
3	A1	2	DG	N1-C6-O6	9.00	125.30	119.90
32	AW	41	DC	P-O3'-C3'	9.00	130.50	119.70
20	AK	47	DG	N1-C6-O6	9.00	125.30	119.90
1	AA	743	DG	N1-C6-O6	8.99	125.30	119.90
1	AA	1084	DG	C5-C6-O6	-8.99	123.20	128.60
1	AA	4044	DG	N1-C6-O6	8.99	125.30	119.90
1	AA	3750	DG	N1-C6-O6	8.99	125.30	119.90
1	AA	4131	DG	N1-C6-O6	8.99	125.30	119.90
96	Bf	18	DC	O4'-C4'-C3'	-8.99	100.60	106.00
123	CF	35	DG	N1-C6-O6	8.99	125.30	119.90
154	Cr	42	DG	N1-C6-O6	8.99	125.30	119.90
1	AA	779	DG	N1-C6-O6	8.99	125.29	119.90
1	AA	71	DG	N1-C6-O6	8.99	125.29	119.90
1	AA	2143	DG	N1-C6-O6	8.99	125.29	119.90
1	AA	2490	DG	N1-C6-O6	8.99	125.29	119.90
1	AA	6097	DG	N1-C6-O6	8.99	125.29	119.90
68	BD	22	DG	N1-C6-O6	8.99	125.29	119.90
1	AA	266	DG	C5-C6-O6	-8.99	123.21	128.60
1	AA	5322	DG	N1-C6-O6	8.99	125.29	119.90
63	B7	25	DG	N1-C6-O6	8.99	125.29	119.90
82	BR	64	DG	N1-C6-O6	8.99	125.29	119.90
1	AA	4584	DG	N1-C6-O6	8.98	125.29	119.90
1	AA	5531	DG	N1-C6-O6	8.98	125.29	119.90
1	AA	6434	DG	N1-C6-O6	8.98	125.29	119.90
53	Ax	23	DG	N1-C6-O6	8.98	125.29	119.90
1	AA	3400	DG	N1-C6-O6	8.98	125.29	119.90
1	AA	4965	DG	N1-C6-O6	8.98	125.29	119.90
1	AA	6076	DG	N1-C6-O6	8.98	125.29	119.90
1	AA	7191	DG	N1-C6-O6	8.98	125.29	119.90
48	Ao	25	DG	N1-C6-O6	8.98	125.29	119.90
67	BC	18	DG	N1-C6-O6	8.98	125.29	119.90
114	C4	20	DG	N1-C6-O6	8.98	125.29	119.90
1	AA	2552	DG	N1-C6-O6	8.98	125.29	119.90
9	A7	19	DG	N1-C6-O6	8.98	125.29	119.90
28	AS	9	DA	O4'-C1'-N9	8.98	114.29	108.00
92	Bb	59	DA	P-O3'-C3'	8.98	130.48	119.70
106	Bp	6	DC	O4'-C4'-C3'	-8.98	100.61	106.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	333	DG	N1-C6-O6	8.98	125.29	119.90
1	AA	2081	DG	N1-C6-O6	8.98	125.29	119.90
1	AA	4003	DG	N1-C6-O6	8.98	125.29	119.90
79	BO	34	DG	N1-C6-O6	8.98	125.29	119.90
1	AA	936	DG	N1-C6-O6	8.98	125.29	119.90
1	AA	2765	DG	N1-C6-O6	8.98	125.29	119.90
1	AA	4423	DG	N1-C6-O6	8.98	125.29	119.90
26	AQ	49	DG	N1-C6-O6	8.98	125.29	119.90
143	CZ	18	DG	N1-C6-O6	8.98	125.29	119.90
1	AA	3253	DG	N1-C6-O6	8.98	125.28	119.90
1	AA	4048	DG	N1-C6-O6	8.98	125.29	119.90
1	AA	4649	DG	N1-C6-O6	8.98	125.29	119.90
1	AA	6159	DA	O4'-C1'-C2'	-8.98	98.72	105.90
90	BZ	45	DG	N1-C6-O6	8.98	125.29	119.90
91	Ba	20	DG	N1-C6-O6	8.98	125.28	119.90
91	Ba	47	DG	N1-C6-O6	8.98	125.29	119.90
104	Bn	24	DG	N1-C6-O6	8.98	125.29	119.90
115	C5	27	DG	N1-C6-O6	8.98	125.29	119.90
1	AA	532	DG	N1-C6-O6	8.97	125.28	119.90
1	AA	2463	DG	N1-C6-O6	8.97	125.28	119.90
1	AA	2779	DG	N1-C6-O6	8.97	125.28	119.90
1	AA	3578	DG	N1-C6-O6	8.97	125.28	119.90
1	AA	7048	DG	N1-C6-O6	8.97	125.28	119.90
37	Ac	36	DA	P-O3'-C3'	8.97	130.47	119.70
43	Aj	7	DG	N1-C6-O6	8.97	125.28	119.90
1	AA	3604	DG	N1-C6-O6	8.97	125.28	119.90
1	AA	248	DG	N1-C6-O6	8.97	125.28	119.90
18	AI	14	DG	N1-C6-O6	8.97	125.28	119.90
94	Bd	17	DG	N1-C6-O6	8.97	125.28	119.90
150	Ch	30	DG	N1-C6-O6	8.97	125.28	119.90
161	Cy	3	DG	N1-C6-O6	8.97	125.28	119.90
1	AA	2725	DG	N1-C6-O6	8.97	125.28	119.90
1	AA	3366	DG	N1-C6-O6	8.97	125.28	119.90
1	AA	2733	DG	C5-C6-O6	-8.97	123.22	128.60
1	AA	4218	DG	N1-C6-O6	8.97	125.28	119.90
1	AA	4910	DG	N1-C6-O6	8.97	125.28	119.90
1	AA	6033	DT	O4'-C4'-C3'	-8.97	100.62	106.00
22	AM	33	DG	N1-C6-O6	8.97	125.28	119.90
93	Bc	7	DG	N1-C6-O6	8.97	125.28	119.90
111	C1	32	DG	N1-C6-O6	8.97	125.28	119.90
142	CY	37	DG	N1-C6-O6	8.97	125.28	119.90
1	AA	3524	DG	N1-C6-O6	8.97	125.28	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3882	DG	N1-C6-O6	8.97	125.28	119.90
98	Bh	1	DG	N1-C6-O6	8.97	125.28	119.90
1	AA	5280	DG	N1-C6-O6	8.96	125.28	119.90
1	AA	5843	DG	N1-C6-O6	8.96	125.28	119.90
1	AA	6048	DG	N1-C6-O6	8.96	125.28	119.90
1	AA	910	DG	N1-C6-O6	8.96	125.28	119.90
1	AA	3304	DG	N1-C6-O6	8.96	125.28	119.90
1	AA	3950	DG	N1-C6-O6	8.96	125.28	119.90
149	Cg	15	DG	N1-C6-O6	8.96	125.28	119.90
23	AN	6	DG	N1-C6-O6	8.96	125.28	119.90
137	CT	42	DG	N1-C6-O6	8.96	125.28	119.90
1	AA	2470	DG	N1-C6-O6	8.96	125.28	119.90
76	BL	30	DG	N1-C6-O6	8.96	125.28	119.90
112	C2	7	DG	N1-C6-O6	8.96	125.28	119.90
160	Cx	34	DG	N1-C6-O6	8.96	125.28	119.90
1	AA	4664	DG	N1-C6-O6	8.96	125.27	119.90
26	AQ	50	DG	N1-C6-O6	8.96	125.27	119.90
1	AA	5656	DG	N1-C6-O6	8.96	125.27	119.90
1	AA	5772	DG	N1-C6-O6	8.96	125.27	119.90
12	AC	38	DG	N1-C6-O6	8.96	125.27	119.90
1	AA	666	DG	N1-C6-O6	8.95	125.27	119.90
1	AA	3029	DG	N1-C6-O6	8.95	125.27	119.90
1	AA	6367	DG	N1-C6-O6	8.96	125.27	119.90
56	B0	42	DA	O4'-C4'-C3'	-8.96	100.63	106.00
145	Cc	46	DG	N1-C6-O6	8.95	125.27	119.90
1	AA	143	DC	C4'-C3'-C2'	-8.95	95.04	103.10
1	AA	2186	DG	N1-C6-O6	8.95	125.27	119.90
14	AE	34	DG	N1-C6-O6	8.95	125.27	119.90
47	An	39	DG	N1-C6-O6	8.95	125.27	119.90
1	AA	431	DG	N1-C6-O6	8.95	125.27	119.90
13	AD	7	DG	N1-C6-O6	8.95	125.27	119.90
53	Ax	13	DG	N1-C6-O6	8.95	125.27	119.90
59	B3	17	DG	N1-C6-O6	8.95	125.27	119.90
1	AA	352	DG	N1-C6-O6	8.95	125.27	119.90
1	AA	2972	DG	N1-C6-O6	8.95	125.27	119.90
1	AA	3551	DG	N1-C6-O6	8.95	125.27	119.90
1	AA	3853	DG	N1-C6-O6	8.95	125.27	119.90
1	AA	7131	DG	N1-C6-O6	8.95	125.27	119.90
10	A8	18	DG	N1-C6-O6	8.95	125.27	119.90
13	AD	14	DG	N1-C6-O6	8.95	125.27	119.90
30	AU	10	DG	N1-C6-O6	8.95	125.27	119.90
103	Bm	26	DT	P-O3'-C3'	8.95	130.44	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5039	DG	N1-C6-O6	8.95	125.27	119.90
1	AA	6178	DG	N1-C6-O6	8.94	125.27	119.90
1	AA	6632	DG	N1-C6-O6	8.94	125.27	119.90
48	Ao	2	DG	N1-C6-O6	8.94	125.27	119.90
96	Bf	26	DG	N1-C6-O6	8.95	125.27	119.90
162	Cz	45	DG	N1-C6-O6	8.94	125.27	119.90
7	A5	46	DG	N1-C6-O6	8.94	125.27	119.90
1	AA	4404	DG	N1-C6-O6	8.94	125.26	119.90
57	B1	50	DG	N1-C6-O6	8.94	125.27	119.90
1	AA	3491	DG	C5-C6-O6	-8.94	123.24	128.60
1	AA	3841	DG	N1-C6-O6	8.94	125.26	119.90
127	CJ	21	DA	P-O3'-C3'	8.94	130.43	119.70
1	AA	1060	DG	N1-C6-O6	8.94	125.26	119.90
40	Ag	4	DG	N1-C6-O6	8.94	125.26	119.90
51	Av	29	DG	N1-C6-O6	8.94	125.26	119.90
91	Ba	14	DA	O4'-C4'-C3'	-8.94	100.64	106.00
96	Bf	25	DG	N1-C6-O6	8.94	125.26	119.90
106	Bp	30	DG	N1-C6-O6	8.94	125.26	119.90
116	C6	6	DG	N1-C6-O6	8.94	125.26	119.90
137	CT	46	DG	N1-C6-O6	8.94	125.26	119.90
161	Cy	12	DG	N1-C6-O6	8.94	125.26	119.90
1	AA	638	DG	N1-C6-O6	8.93	125.26	119.90
1	AA	1351	DG	N1-C6-O6	8.93	125.26	119.90
121	CD	30	DA	O4'-C4'-C3'	-8.93	100.64	106.00
1	AA	4806	DG	N1-C6-O6	8.93	125.26	119.90
16	AG	40	DG	N1-C6-O6	8.93	125.26	119.90
74	BJ	50	DG	N1-C6-O6	8.93	125.26	119.90
95	Be	8	DG	N1-C6-O6	8.93	125.26	119.90
1	AA	730	DG	N1-C6-O6	8.93	125.26	119.90
1	AA	2565	DG	N1-C6-O6	8.93	125.26	119.90
1	AA	3583	DG	N1-C6-O6	8.93	125.26	119.90
1	AA	4402	DG	N1-C6-O6	8.93	125.26	119.90
1	AA	4464	DG	N1-C6-O6	8.93	125.26	119.90
58	B2	10	DG	N1-C6-O6	8.93	125.26	119.90
126	CI	9	DG	N1-C6-O6	8.93	125.26	119.90
1	AA	620	DG	N1-C6-O6	8.93	125.25	119.90
1	AA	3363	DG	N1-C6-O6	8.93	125.25	119.90
1	AA	4230	DG	C5-C6-O6	-8.93	123.24	128.60
1	AA	4764	DG	N1-C6-O6	8.93	125.25	119.90
1	AA	5749	DG	N1-C6-O6	8.93	125.26	119.90
1	AA	6627	DG	N1-C6-O6	8.93	125.25	119.90
71	BG	7	DA	P-O3'-C3'	8.93	130.41	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
102	Bl	13	DG	N1-C6-O6	8.93	125.26	119.90
120	CC	4	DG	N1-C6-O6	8.93	125.25	119.90
129	CL	40	DG	N1-C6-O6	8.93	125.25	119.90
1	AA	161	DG	N1-C6-O6	8.92	125.25	119.90
1	AA	1570	DG	N1-C6-O6	8.92	125.25	119.90
40	Ag	10	DG	N1-C6-O6	8.92	125.25	119.90
1	AA	5724	DG	C5-C6-O6	-8.92	123.25	128.60
1	AA	6190	DG	N1-C6-O6	8.92	125.25	119.90
1	AA	1783	DG	N1-C6-O6	8.92	125.25	119.90
1	AA	2890	DG	N1-C6-O6	8.92	125.25	119.90
1	AA	3834	DG	N1-C6-O6	8.92	125.25	119.90
1	AA	4603	DG	N1-C6-O6	8.92	125.25	119.90
1	AA	3343	DA	O4'-C4'-C3'	-8.92	100.65	106.00
72	BH	31	DG	N1-C6-O6	8.92	125.25	119.90
25	AP	33	DG	N1-C6-O6	8.92	125.25	119.90
136	CS	16	DG	N1-C6-O6	8.92	125.25	119.90
1	AA	515	DG	N1-C6-O6	8.91	125.25	119.90
1	AA	926	DG	N1-C6-O6	8.91	125.25	119.90
1	AA	1041	DG	N1-C6-O6	8.91	125.25	119.90
1	AA	1543	DG	N1-C6-O6	8.91	125.25	119.90
1	AA	5493	DG	N1-C6-O6	8.91	125.25	119.90
96	Bf	46	DG	N1-C6-O6	8.91	125.25	119.90
109	Bs	31	DG	N1-C6-O6	8.91	125.25	119.90
124	CG	19	DC	O4'-C1'-N1	8.91	114.24	108.00
1	AA	3426	DG	C5-C6-O6	-8.91	123.25	128.60
1	AA	7055	DG	N1-C6-O6	8.91	125.25	119.90
15	AF	42	DG	N1-C6-O6	8.91	125.25	119.90
159	Cw	33	DA	P-O3'-C3'	8.91	130.40	119.70
54	Ay	3	DG	N1-C6-O6	8.91	125.25	119.90
1	AA	1228	DG	N1-C6-O6	8.91	125.25	119.90
1	AA	4463	DG	N1-C6-O6	8.91	125.25	119.90
1	AA	6749	DG	N1-C6-O6	8.91	125.25	119.90
18	AI	38	DG	N1-C6-O6	8.91	125.25	119.90
47	An	30	DG	N1-C6-O6	8.91	125.25	119.90
49	As	9	DG	N1-C6-O6	8.91	125.25	119.90
54	Ay	15	DG	N1-C6-O6	8.91	125.25	119.90
88	BX	33	DG	N1-C6-O6	8.91	125.25	119.90
102	Bl	15	DG	N1-C6-O6	8.91	125.25	119.90
105	Bo	39	DG	N1-C6-O6	8.91	125.25	119.90
154	Cr	7	DG	N1-C6-O6	8.91	125.25	119.90
1	AA	6666	DG	N1-C6-O6	8.91	125.25	119.90
1	AA	6898	DG	N1-C6-O6	8.91	125.25	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	BC	23	DG	N1-C6-O6	8.91	125.25	119.90
1	AA	4778	DG	N1-C6-O6	8.90	125.24	119.90
1	AA	4853	DG	N1-C6-O6	8.90	125.24	119.90
1	AA	5640	DG	N1-C6-O6	8.90	125.24	119.90
1	AA	1353	DG	N1-C6-O6	8.90	125.24	119.90
1	AA	1906	DG	N1-C6-O6	8.90	125.24	119.90
1	AA	4620	DG	N1-C6-O6	8.90	125.24	119.90
45	Al	13	DG	N1-C6-O6	8.90	125.24	119.90
101	Bk	23	DG	N1-C6-O6	8.90	125.24	119.90
87	BW	10	DG	N1-C6-O6	8.90	125.24	119.90
162	Cz	6	DG	N1-C6-O6	8.90	125.24	119.90
1	AA	2450	DG	N1-C6-O6	8.90	125.24	119.90
1	AA	6058	DG	C5-C6-O6	-8.90	123.26	128.60
126	CI	22	DG	N1-C6-O6	8.90	125.24	119.90
1	AA	1964	DG	N1-C6-O6	8.90	125.24	119.90
1	AA	2997	DG	N1-C6-O6	8.90	125.24	119.90
1	AA	7130	DG	N1-C6-O6	8.90	125.24	119.90
115	C5	55	DT	O4'-C4'-C3'	-8.90	100.66	106.00
1	AA	243	DC	O4'-C1'-C2'	-8.89	98.78	105.90
1	AA	1846	DG	N1-C6-O6	8.89	125.24	119.90
1	AA	3402	DG	N1-C6-O6	8.89	125.24	119.90
1	AA	4999	DG	N1-C6-O6	8.89	125.24	119.90
10	A8	45	DG	N1-C6-O6	8.89	125.24	119.90
110	C0	3	DG	N1-C6-O6	8.89	125.24	119.90
1	AA	5049	DG	N1-C6-O6	8.89	125.24	119.90
1	AA	5599	DG	N1-C6-O6	8.89	125.24	119.90
1	AA	6357	DG	N1-C6-O6	8.89	125.24	119.90
18	AI	30	DG	N1-C6-O6	8.89	125.24	119.90
1	AA	7042	DG	N1-C6-O6	8.89	125.24	119.90
46	Am	9	DG	N1-C6-O6	8.89	125.24	119.90
97	Bg	37	DG	N1-C6-O6	8.89	125.24	119.90
1	AA	2187	DG	N1-C6-O6	8.89	125.23	119.90
1	AA	3318	DG	N1-C6-O6	8.89	125.23	119.90
1	AA	5181	DG	N1-C6-O6	8.89	125.23	119.90
132	CO	13	DG	N1-C6-O6	8.89	125.23	119.90
144	Cb	41	DG	N1-C6-O6	8.89	125.23	119.90
89	BY	11	DG	N1-C6-O6	8.89	125.23	119.90
92	Bb	60	DC	O4'-C4'-C3'	-8.89	100.67	106.00
93	Bc	18	DG	N1-C6-O6	8.89	125.23	119.90
1	AA	723	DG	N1-C6-O6	8.89	125.23	119.90
1	AA	745	DG	N1-C6-O6	8.89	125.23	119.90
1	AA	3397	DG	N1-C6-O6	8.89	125.23	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3760	DG	N1-C6-O6	8.89	125.23	119.90
1	AA	3936	DG	N1-C6-O6	8.89	125.23	119.90
1	AA	4413	DG	N1-C6-O6	8.89	125.23	119.90
1	AA	3840	DG	N1-C6-O6	8.89	125.23	119.90
57	B1	42	DG	N1-C6-O6	8.89	125.23	119.90
1	AA	4536	DG	N1-C6-O6	8.89	125.23	119.90
1	AA	203	DG	N1-C6-O6	8.88	125.23	119.90
1	AA	4227	DG	N1-C6-O6	8.88	125.23	119.90
104	Bn	26	DG	N1-C6-O6	8.88	125.23	119.90
1	AA	405	DG	N1-C6-O6	8.88	125.23	119.90
1	AA	4059	DG	N1-C6-O6	8.88	125.23	119.90
8	A6	16	DG	O4'-C4'-C3'	-8.88	100.67	106.00
102	Bl	19	DG	N1-C6-O6	8.88	125.23	119.90
1	AA	24	DG	N1-C6-O6	8.88	125.23	119.90
1	AA	4586	DG	N1-C6-O6	8.88	125.23	119.90
1	AA	6232	DG	N1-C6-O6	8.88	125.23	119.90
58	B2	26	DG	N1-C6-O6	8.88	125.23	119.90
74	BJ	16	DG	N1-C6-O6	8.88	125.23	119.90
1	AA	6670	DG	N1-C6-O6	8.88	125.23	119.90
15	AF	12	DG	N1-C6-O6	8.88	125.23	119.90
23	AN	32	DG	N1-C6-O6	8.88	125.23	119.90
109	Bs	45	DG	N1-C6-O6	8.88	125.23	119.90
133	CP	56	DG	N1-C6-O6	8.88	125.23	119.90
133	CP	21	DG	N1-C6-O6	8.88	125.23	119.90
135	CR	37	DG	N1-C6-O6	8.88	125.23	119.90
159	Cw	31	DG	N1-C6-O6	8.88	125.23	119.90
34	AY	39	DG	N1-C6-O6	8.88	125.22	119.90
1	AA	285	DG	N1-C6-O6	8.87	125.22	119.90
21	AL	6	DA	O4'-C4'-C3'	-8.87	100.67	106.00
78	BN	58	DG	N1-C6-O6	8.88	125.22	119.90
87	BW	11	DG	N1-C6-O6	8.88	125.22	119.90
148	Cf	1	DG	N1-C6-O6	8.88	125.22	119.90
1	AA	1413	DG	N1-C6-O6	8.87	125.22	119.90
1	AA	2200	DG	N1-C6-O6	8.87	125.22	119.90
24	AO	10	DG	N1-C6-O6	8.87	125.22	119.90
1	AA	3501	DG	N1-C6-O6	8.87	125.22	119.90
1	AA	5352	DG	N1-C6-O6	8.87	125.22	119.90
1	AA	6985	DG	N1-C6-O6	8.87	125.22	119.90
20	AK	29	DG	N1-C6-O6	8.87	125.22	119.90
14	AE	8	DG	N1-C6-O6	8.87	125.22	119.90
9	A7	45	DC	O4'-C1'-N1	8.87	114.21	108.00
40	Ag	13	DG	P-O3'-C3'	8.87	130.34	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	704	DG	N1-C6-O6	8.87	125.22	119.90
1	AA	900	DG	N1-C6-O6	8.87	125.22	119.90
1	AA	4200	DG	N1-C6-O6	8.87	125.22	119.90
1	AA	4610	DG	N1-C6-O6	8.87	125.22	119.90
1	AA	7156	DG	N1-C6-O6	8.87	125.22	119.90
124	CG	1	DG	P-O3'-C3'	8.87	130.34	119.70
1	AA	4284	DG	N1-C6-O6	8.87	125.22	119.90
1	AA	4473	DA	O4'-C4'-C3'	-8.87	100.68	106.00
1	AA	5298	DG	N1-C6-O6	8.87	125.22	119.90
124	CG	17	DG	N1-C6-O6	8.87	125.22	119.90
161	Cy	61	DG	N1-C6-O6	8.87	125.22	119.90
1	AA	1418	DA	O4'-C4'-C3'	-8.87	100.68	106.00
1	AA	5157	DG	N1-C6-O6	8.87	125.22	119.90
1	AA	6580	DG	N1-C6-O6	8.86	125.22	119.90
1	AA	6941	DG	N1-C6-O6	8.87	125.22	119.90
38	Ad	35	DG	N1-C6-O6	8.86	125.22	119.90
95	Be	41	DG	N1-C6-O6	8.87	125.22	119.90
100	Bj	4	DG	N1-C6-O6	8.86	125.22	119.90
110	C0	8	DG	N1-C6-O6	8.86	125.22	119.90
1	AA	1745	DG	N1-C6-O6	8.86	125.22	119.90
1	AA	3351	DG	N1-C6-O6	8.86	125.22	119.90
49	As	12	DG	N1-C6-O6	8.86	125.22	119.90
154	Cr	43	DG	N1-C6-O6	8.86	125.22	119.90
1	AA	6058	DG	P-O3'-C3'	8.86	130.33	119.70
95	Be	38	DG	N1-C6-O6	8.86	125.22	119.90
1	AA	1150	DG	N1-C6-O6	8.86	125.22	119.90
1	AA	1192	DG	N1-C6-O6	8.86	125.22	119.90
1	AA	1831	DG	N1-C6-O6	8.86	125.22	119.90
1	AA	6564	DG	N1-C6-O6	8.86	125.22	119.90
24	AO	15	DG	N1-C6-O6	8.86	125.22	119.90
33	AX	20	DG	N1-C6-O6	8.86	125.22	119.90
76	BL	27	DG	N1-C6-O6	8.86	125.22	119.90
1	AA	516	DG	N1-C6-O6	8.86	125.21	119.90
1	AA	3316	DG	N1-C6-O6	8.86	125.21	119.90
40	Ag	36	DG	N1-C6-O6	8.86	125.21	119.90
68	BD	27	DG	N1-C6-O6	8.86	125.21	119.90
144	Cb	21	DC	O4'-C1'-N1	8.86	114.20	108.00
150	Ch	31	DG	N1-C6-O6	8.86	125.21	119.90
1	AA	210	DG	N1-C6-O6	8.85	125.21	119.90
1	AA	360	DG	N1-C6-O6	8.85	125.21	119.90
1	AA	763	DG	N1-C6-O6	8.85	125.21	119.90
1	AA	1414	DG	N1-C6-O6	8.85	125.21	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2596	DG	P-O3'-C3'	8.85	130.32	119.70
1	AA	2661	DG	C5-C6-O6	-8.85	123.29	128.60
1	AA	4017	DG	N1-C6-O6	8.85	125.21	119.90
2	A0	16	DG	N1-C6-O6	8.85	125.21	119.90
1	AA	7084	DG	N1-C6-O6	8.85	125.21	119.90
55	Az	4	DG	N1-C6-O6	8.85	125.21	119.90
150	Ch	10	DA	O4'-C4'-C3'	-8.85	100.69	106.00
161	Cy	35	DG	N1-C6-O6	8.85	125.21	119.90
1	AA	1084	DG	O4'-C4'-C3'	-8.85	100.69	106.00
124	CG	8	DG	N1-C6-O6	8.85	125.21	119.90
1	AA	1018	DG	N1-C6-O6	8.85	125.21	119.90
1	AA	2732	DA	C5-C6-N6	-8.85	116.62	123.70
1	AA	3571	DG	N1-C6-O6	8.85	125.21	119.90
1	AA	5038	DG	C5-C6-O6	-8.85	123.29	128.60
1	AA	5364	DT	O4'-C4'-C3'	-8.85	100.69	106.00
1	AA	5378	DG	N1-C6-O6	8.85	125.21	119.90
1	AA	6163	DG	P-O3'-C3'	8.85	130.32	119.70
105	Bo	43	DG	N1-C6-O6	8.85	125.21	119.90
114	C4	29	DG	N1-C6-O6	8.85	125.21	119.90
120	CC	32	DG	N1-C6-O6	8.85	125.21	119.90
161	Cy	4	DG	N1-C6-O6	8.85	125.21	119.90
1	AA	659	DG	N1-C6-O6	8.85	125.21	119.90
1	AA	895	DG	N1-C6-O6	8.85	125.21	119.90
1	AA	3370	DG	N1-C6-O6	8.85	125.21	119.90
1	AA	3989	DG	N1-C6-O6	8.85	125.21	119.90
1	AA	6640	DG	N1-C6-O6	8.85	125.21	119.90
104	Bn	13	DG	N1-C6-O6	8.85	125.21	119.90
29	AT	44	DG	C5-C6-O6	-8.85	123.29	128.60
58	B2	13	DG	N1-C6-O6	8.85	125.21	119.90
124	CG	15	DG	N1-C6-O6	8.85	125.21	119.90
125	CH	22	DG	N1-C6-O6	8.85	125.21	119.90
154	Cr	28	DG	N1-C6-O6	8.85	125.21	119.90
1	AA	829	DG	N1-C6-O6	8.84	125.21	119.90
25	AP	29	DG	N1-C6-O6	8.84	125.21	119.90
42	Ai	8	DG	N1-C6-O6	8.84	125.21	119.90
1	AA	3208	DG	N1-C6-O6	8.84	125.20	119.90
128	CK	25	DG	N1-C6-O6	8.84	125.20	119.90
1	AA	5669	DG	N1-C6-O6	8.84	125.20	119.90
1	AA	6253	DG	N1-C6-O6	8.84	125.20	119.90
62	B6	17	DG	N1-C6-O6	8.84	125.20	119.90
66	BB	15	DG	N1-C6-O6	8.84	125.20	119.90
76	BL	36	DG	N1-C6-O6	8.84	125.20	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
100	Bj	10	DG	N1-C6-O6	8.84	125.20	119.90
1	AA	3705	DG	N1-C6-O6	8.84	125.20	119.90
108	Br	50	DG	N1-C6-O6	8.84	125.20	119.90
156	Ct	12	DG	N1-C6-O6	8.84	125.20	119.90
1	AA	2001	DG	N1-C6-O6	8.84	125.20	119.90
1	AA	3813	DG	N1-C6-O6	8.84	125.20	119.90
139	CV	53	DG	N1-C6-O6	8.84	125.20	119.90
1	AA	3826	DG	N1-C6-O6	8.84	125.20	119.90
1	AA	3874	DG	N1-C6-O6	8.84	125.20	119.90
1	AA	7076	DG	C5-C6-O6	-8.84	123.30	128.60
1	AA	4359	DG	N1-C6-O6	8.84	125.20	119.90
18	AI	42	DG	N1-C6-O6	8.84	125.20	119.90
46	Am	41	DG	N1-C6-O6	8.84	125.20	119.90
125	CH	32	DG	N1-C6-O6	8.84	125.20	119.90
1	AA	484	DG	N1-C6-O6	8.83	125.20	119.90
1	AA	983	DG	N1-C6-O6	8.83	125.20	119.90
1	AA	1853	DG	N1-C6-O6	8.83	125.20	119.90
1	AA	4794	DG	N1-C6-O6	8.83	125.20	119.90
1	AA	6839	DG	N1-C6-O6	8.83	125.20	119.90
23	AN	14	DG	N1-C6-O6	8.83	125.20	119.90
71	BG	14	DG	N1-C6-O6	8.83	125.20	119.90
123	CF	14	DC	O4'-C4'-C3'	-8.83	100.70	106.00
1	AA	1331	DG	N1-C6-O6	8.83	125.20	119.90
1	AA	1965	DG	N1-C6-O6	8.83	125.20	119.90
1	AA	2537	DG	N1-C6-O6	8.83	125.20	119.90
1	AA	3159	DG	N1-C6-O6	8.83	125.20	119.90
1	AA	3866	DG	N1-C6-O6	8.83	125.20	119.90
1	AA	4231	DG	N1-C6-O6	8.83	125.20	119.90
1	AA	4740	DG	N1-C6-O6	8.83	125.20	119.90
12	AC	9	DG	N1-C6-O6	8.83	125.20	119.90
1	AA	6634	DG	N1-C6-O6	8.83	125.20	119.90
55	Az	41	DG	N1-C6-O6	8.83	125.20	119.90
92	Bb	20	DG	N1-C6-O6	8.83	125.20	119.90
97	Bg	8	DG	N1-C6-O6	8.83	125.20	119.90
105	Bo	25	DT	P-O3'-C3'	8.83	130.30	119.70
127	CJ	46	DG	N1-C6-O6	8.83	125.20	119.90
1	AA	2711	DG	C5-C6-O6	-8.83	123.30	128.60
12	AC	23	DG	N1-C6-O6	8.83	125.20	119.90
1	AA	3825	DG	N1-C6-O6	8.83	125.20	119.90
1	AA	5499	DG	N1-C6-O6	8.83	125.20	119.90
69	BE	26	DG	N1-C6-O6	8.83	125.20	119.90
77	BM	30	DG	N1-C6-O6	8.83	125.20	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6936	DG	N1-C6-O6	8.83	125.20	119.90
1	AA	7140	DG	N1-C6-O6	8.83	125.20	119.90
28	AS	13	DG	N1-C6-O6	8.83	125.20	119.90
61	B5	5	DG	N1-C6-O6	8.83	125.20	119.90
1	AA	396	DG	N1-C6-O6	8.82	125.19	119.90
44	Ak	26	DG	N1-C6-O6	8.82	125.19	119.90
83	BS	46	DG	N1-C6-O6	8.82	125.19	119.90
1	AA	1950	DG	N1-C6-O6	8.82	125.19	119.90
81	BQ	14	DG	N1-C6-O6	8.82	125.19	119.90
97	Bg	4	DG	N1-C6-O6	8.82	125.19	119.90
1	AA	212	DG	N1-C6-O6	8.82	125.19	119.90
1	AA	3836	DG	N1-C6-O6	8.82	125.19	119.90
12	AC	19	DG	P-O3'-C3'	8.82	130.28	119.70
75	BK	33	DT	P-O3'-C3'	8.82	130.28	119.70
128	CK	18	DG	N1-C6-O6	8.82	125.19	119.90
1	AA	553	DG	N1-C6-O6	8.82	125.19	119.90
1	AA	5103	DG	N1-C6-O6	8.82	125.19	119.90
15	AF	20	DG	N1-C6-O6	8.82	125.19	119.90
53	Ax	6	DG	N1-C6-O6	8.82	125.19	119.90
78	BN	63	DG	N1-C6-O6	8.82	125.19	119.90
106	Bp	21	DG	N1-C6-O6	8.82	125.19	119.90
126	CI	34	DG	N1-C6-O6	8.82	125.19	119.90
145	Cc	41	DG	N1-C6-O6	8.82	125.19	119.90
1	AA	2761	DG	N1-C6-O6	8.81	125.19	119.90
1	AA	6124	DG	N1-C6-O6	8.81	125.19	119.90
1	AA	4141	DG	N1-C6-O6	8.81	125.19	119.90
1	AA	4375	DA	O4'-C4'-C3'	-8.81	100.71	106.00
1	AA	4693	DG	N1-C6-O6	8.81	125.19	119.90
1	AA	5658	DG	C5-C6-O6	-8.81	123.31	128.60
10	A8	24	DG	N1-C6-O6	8.81	125.19	119.90
21	AL	28	DG	N1-C6-O6	8.81	125.19	119.90
27	AR	49	DG	N1-C6-O6	8.81	125.19	119.90
65	B9	47	DA	P-O3'-C3'	8.81	130.28	119.70
94	Bd	20	DG	N1-C6-O6	8.81	125.19	119.90
143	CZ	6	DG	N1-C6-O6	8.81	125.19	119.90
116	C6	39	DG	N1-C6-O6	8.81	125.19	119.90
49	As	16	DG	C5-C6-O6	-8.81	123.31	128.60
52	Aw	28	DG	N1-C6-O6	8.81	125.19	119.90
67	BC	13	DG	N1-C6-O6	8.81	125.19	119.90
59	B3	11	DG	N1-C6-O6	8.81	125.19	119.90
146	Cd	38	DG	N1-C6-O6	8.81	125.19	119.90
147	Ce	14	DG	N1-C6-O6	8.81	125.19	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
24	AO	41	DA	P-O3'-C3'	8.81	130.27	119.70
1	AA	2959	DG	N1-C6-O6	8.81	125.18	119.90
101	Bk	29	DG	N1-C6-O6	8.81	125.19	119.90
121	CD	8	DG	N1-C6-O6	8.81	125.19	119.90
126	CI	39	DG	N1-C6-O6	8.81	125.19	119.90
1	AA	1699	DG	N1-C6-O6	8.81	125.18	119.90
4	A2	19	DG	N1-C6-O6	8.80	125.18	119.90
91	Ba	9	DG	N1-C6-O6	8.80	125.18	119.90
105	Bo	41	DG	N1-C6-O6	8.81	125.18	119.90
113	C3	45	DG	C5-C6-O6	-8.81	123.32	128.60
118	C8	2	DG	N1-C6-O6	8.81	125.18	119.90
121	CD	14	DT	P-O3'-C3'	8.81	130.27	119.70
158	Cv	22	DG	N1-C6-O6	8.81	125.18	119.90
1	AA	2495	DG	N1-C6-O6	8.80	125.18	119.90
96	Bf	7	DG	N1-C6-O6	8.80	125.18	119.90
66	BB	36	DG	N1-C6-O6	8.80	125.18	119.90
146	Cd	11	DG	N1-C6-O6	8.80	125.18	119.90
1	AA	3279	DG	O4'-C4'-C3'	-8.80	100.72	106.00
1	AA	6349	DG	C5-C6-O6	-8.80	123.32	128.60
4	A2	7	DG	N1-C6-O6	8.80	125.18	119.90
16	AG	26	DG	N1-C6-O6	8.80	125.18	119.90
58	B2	28	DG	N1-C6-O6	8.80	125.18	119.90
113	C3	21	DG	N1-C6-O6	8.80	125.18	119.90
128	CK	13	DG	N1-C6-O6	8.80	125.18	119.90
1	AA	353	DG	N1-C6-O6	8.80	125.18	119.90
7	A5	20	DG	N1-C6-O6	8.80	125.18	119.90
22	AM	40	DG	N1-C6-O6	8.80	125.18	119.90
23	AN	17	DG	N1-C6-O6	8.80	125.18	119.90
1	AA	3442	DG	N1-C6-O6	8.80	125.18	119.90
1	AA	3694	DG	N1-C6-O6	8.80	125.18	119.90
1	AA	4612	DG	N1-C6-O6	8.80	125.18	119.90
48	Ao	3	DG	N1-C6-O6	8.80	125.18	119.90
56	B0	10	DG	O4'-C4'-C3'	-8.80	100.72	106.00
111	C1	14	DG	N1-C6-O6	8.80	125.18	119.90
102	Bl	8	DG	N1-C6-O6	8.80	125.18	119.90
115	C5	6	DG	N1-C6-O6	8.80	125.18	119.90
1	AA	597	DG	N1-C6-O6	8.79	125.18	119.90
1	AA	3756	DC	P-O3'-C3'	8.80	130.25	119.70
26	AQ	12	DG	N1-C6-O6	8.80	125.18	119.90
45	Al	7	DG	N1-C6-O6	8.80	125.18	119.90
108	Br	49	DG	N1-C6-O6	8.80	125.18	119.90
1	AA	1405	DG	N1-C6-O6	8.79	125.18	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3851	DG	N1-C6-O6	8.79	125.18	119.90
1	AA	4534	DG	N1-C6-O6	8.79	125.18	119.90
7	A5	43	DG	N1-C6-O6	8.79	125.18	119.90
48	Ao	1	DG	N1-C6-O6	8.79	125.18	119.90
1	AA	504	DG	N1-C6-O6	8.79	125.17	119.90
53	Ax	38	DG	N1-C6-O6	8.79	125.17	119.90
125	CH	23	DG	N1-C6-O6	8.79	125.17	119.90
1	AA	117	DG	N1-C6-O6	8.79	125.17	119.90
1	AA	1429	DG	N1-C6-O6	8.79	125.17	119.90
1	AA	3951	DG	N1-C6-O6	8.79	125.17	119.90
21	AL	11	DG	C5-C6-O6	-8.79	123.33	128.60
53	Ax	24	DG	N1-C6-O6	8.79	125.17	119.90
91	Ba	25	DG	N1-C6-O6	8.79	125.17	119.90
107	Bq	46	DG	N1-C6-O6	8.79	125.17	119.90
131	CN	10	DG	N1-C6-O6	8.79	125.17	119.90
153	Cq	11	DG	N1-C6-O6	8.79	125.17	119.90
1	AA	1641	DG	N1-C6-O6	8.79	125.17	119.90
1	AA	2095	DG	N1-C6-O6	8.79	125.17	119.90
1	AA	2238	DG	N1-C6-O6	8.79	125.17	119.90
1	AA	5828	DG	N1-C6-O6	8.79	125.17	119.90
110	C0	14	DG	N1-C6-O6	8.79	125.17	119.90
118	C8	16	DG	N1-C6-O6	8.79	125.17	119.90
1	AA	1430	DG	N1-C6-O6	8.79	125.17	119.90
1	AA	1509	DG	N1-C6-O6	8.79	125.17	119.90
1	AA	52	DG	N1-C6-O6	8.78	125.17	119.90
1	AA	955	DG	N1-C6-O6	8.78	125.17	119.90
1	AA	2840	DG	N1-C6-O6	8.79	125.17	119.90
1	AA	5139	DG	N1-C6-O6	8.79	125.17	119.90
1	AA	5534	DG	N1-C6-O6	8.79	125.17	119.90
143	CZ	34	DG	N1-C6-O6	8.79	125.17	119.90
1	AA	2963	DG	C5-C6-O6	-8.78	123.33	128.60
1	AA	4038	DG	N1-C6-O6	8.78	125.17	119.90
1	AA	4207	DG	N1-C6-O6	8.78	125.17	119.90
1	AA	5983	DG	N1-C6-O6	8.79	125.17	119.90
71	BG	42	DG	N1-C6-O6	8.78	125.17	119.90
77	BM	38	DG	N1-C6-O6	8.78	125.17	119.90
88	BX	12	DG	N1-C6-O6	8.79	125.17	119.90
1	AA	166	DG	N1-C6-O6	8.78	125.17	119.90
1	AA	2126	DG	N1-C6-O6	8.78	125.17	119.90
1	AA	3525	DG	N1-C6-O6	8.78	125.17	119.90
17	AH	13	DG	N1-C6-O6	8.78	125.17	119.90
38	Ad	19	DG	N1-C6-O6	8.78	125.17	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
105	Bo	11	DG	N1-C6-O6	8.78	125.17	119.90
31	AV	10	DG	O4'-C4'-C3'	-8.78	100.73	106.00
41	Ah	30	DC	O4'-C4'-C3'	-8.78	100.73	106.00
64	B8	18	DG	N1-C6-O6	8.78	125.17	119.90
74	BJ	34	DT	O4'-C1'-C2'	-8.78	98.87	105.90
137	CT	7	DG	C5-C6-O6	-8.78	123.33	128.60
78	BN	15	DG	N1-C6-O6	8.78	125.17	119.90
1	AA	549	DG	N1-C6-O6	8.78	125.17	119.90
1	AA	2532	DG	N1-C6-O6	8.78	125.17	119.90
106	Bp	32	DC	O4'-C1'-C2'	-8.78	98.88	105.90
143	CZ	31	DG	N1-C6-O6	8.78	125.17	119.90
1	AA	2169	DG	N1-C6-O6	8.78	125.17	119.90
1	AA	4090	DC	O4'-C4'-C3'	-8.78	100.73	106.00
99	Bi	58	DC	O4'-C1'-C2'	-8.78	98.88	105.90
123	CF	13	DG	N1-C6-O6	8.78	125.17	119.90
155	Cs	23	DG	N1-C6-O6	8.78	125.17	119.90
1	AA	776	DG	N1-C6-O6	8.78	125.17	119.90
1	AA	5130	DG	N1-C6-O6	8.78	125.17	119.90
71	BG	3	DA	O4'-C4'-C3'	-8.78	100.73	106.00
1	AA	4199	DG	N1-C6-O6	8.78	125.17	119.90
1	AA	4319	DG	N1-C6-O6	8.78	125.17	119.90
12	AC	35	DG	N1-C6-O6	8.78	125.17	119.90
23	AN	35	DG	N1-C6-O6	8.78	125.17	119.90
24	AO	46	DT	O4'-C1'-C2'	-8.78	98.88	105.90
47	An	48	DG	N1-C6-O6	8.78	125.17	119.90
110	C0	12	DG	N1-C6-O6	8.78	125.17	119.90
123	CF	9	DG	C5-C6-O6	-8.78	123.33	128.60
1	AA	1198	DG	N1-C6-O6	8.77	125.16	119.90
1	AA	1587	DG	N1-C6-O6	8.77	125.17	119.90
1	AA	3333	DG	N1-C6-O6	8.77	125.16	119.90
1	AA	2410	DG	N1-C6-O6	8.77	125.16	119.90
1	AA	4818	DG	N1-C6-O6	8.77	125.16	119.90
1	AA	4941	DG	N1-C6-O6	8.77	125.16	119.90
1	AA	4988	DG	N1-C6-O6	8.77	125.16	119.90
1	AA	5277	DG	N1-C6-O6	8.77	125.16	119.90
1	AA	5641	DG	N1-C6-O6	8.77	125.16	119.90
1	AA	6547	DG	N1-C6-O6	8.77	125.16	119.90
66	BB	17	DG	N1-C6-O6	8.77	125.16	119.90
114	C4	14	DG	N1-C6-O6	8.77	125.17	119.90
23	AN	18	DG	N1-C6-O6	8.77	125.16	119.90
79	BO	40	DG	N1-C6-O6	8.77	125.16	119.90
91	Ba	10	DG	N1-C6-O6	8.77	125.16	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
157	Cu	50	DG	N1-C6-O6	8.77	125.16	119.90
1	AA	2194	DG	N1-C6-O6	8.77	125.16	119.90
1	AA	3711	DG	N1-C6-O6	8.77	125.16	119.90
1	AA	4412	DG	N1-C6-O6	8.77	125.16	119.90
1	AA	2213	DG	N1-C6-O6	8.77	125.16	119.90
1	AA	6304	DG	N1-C6-O6	8.77	125.16	119.90
133	CP	18	DC	O4'-C4'-C3'	-8.77	100.74	106.00
33	AX	15	DG	C5-C6-O6	-8.77	123.34	128.60
60	B4	12	DA	O4'-C1'-N9	8.77	114.14	108.00
101	Bk	27	DG	N1-C6-O6	8.77	125.16	119.90
150	Ch	42	DG	N1-C6-O6	8.77	125.16	119.90
88	BX	10	DG	N1-C6-O6	8.77	125.16	119.90
1	AA	278	DG	N1-C6-O6	8.77	125.16	119.90
1	AA	2140	DG	N1-C6-O6	8.77	125.16	119.90
1	AA	2511	DG	N1-C6-O6	8.77	125.16	119.90
116	C6	41	DG	N1-C6-O6	8.77	125.16	119.90
1	AA	3067	DG	C5-C6-O6	-8.77	123.34	128.60
1	AA	3395	DG	N1-C6-O6	8.77	125.16	119.90
1	AA	3837	DG	N1-C6-O6	8.77	125.16	119.90
1	AA	5238	DG	C5-C6-O6	-8.77	123.34	128.60
1	AA	6236	DG	N1-C6-O6	8.77	125.16	119.90
93	Bc	6	DG	N1-C6-O6	8.77	125.16	119.90
116	C6	22	DG	C5-C6-O6	-8.77	123.34	128.60
1	AA	1399	DG	N1-C6-O6	8.76	125.16	119.90
1	AA	6220	DG	N1-C6-O6	8.76	125.16	119.90
1	AA	6968	DG	N1-C6-O6	8.76	125.16	119.90
14	AE	25	DG	N1-C6-O6	8.76	125.16	119.90
59	B3	34	DG	N1-C6-O6	8.76	125.16	119.90
1	AA	2554	DC	O4'-C4'-C3'	-8.76	100.74	106.00
1	AA	3380	DG	N1-C6-O6	8.76	125.16	119.90
1	AA	4134	DG	N1-C6-O6	8.76	125.16	119.90
1	AA	5571	DG	N1-C6-O6	8.76	125.16	119.90
1	AA	6415	DG	N1-C6-O6	8.76	125.16	119.90
1	AA	7170	DG	N1-C6-O6	8.76	125.16	119.90
22	AM	12	DG	N1-C6-O6	8.76	125.16	119.90
86	BV	29	DG	N1-C6-O6	8.76	125.16	119.90
92	Bb	5	DG	N1-C6-O6	8.76	125.16	119.90
130	CM	7	DG	N1-C6-O6	8.76	125.16	119.90
155	Cs	7	DG	C5-C6-O6	-8.76	123.34	128.60
104	Bn	20	DG	N1-C6-O6	8.76	125.16	119.90
1	AA	442	DG	N1-C6-O6	8.76	125.16	119.90
1	AA	133	DG	N1-C6-O6	8.76	125.15	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5127	DG	N1-C6-O6	8.76	125.15	119.90
1	AA	7182	DG	N1-C6-O6	8.76	125.16	119.90
3	A1	44	DG	N1-C6-O6	8.76	125.15	119.90
15	AF	34	DT	O4'-C1'-C2'	-8.76	98.90	105.90
71	BG	40	DG	N1-C6-O6	8.76	125.15	119.90
1	AA	237	DG	N1-C6-O6	8.75	125.15	119.90
1	AA	299	DG	N1-C6-O6	8.75	125.15	119.90
1	AA	1444	DG	N1-C6-O6	8.75	125.15	119.90
1	AA	1883	DG	N1-C6-O6	8.75	125.15	119.90
1	AA	1682	DG	N1-C6-O6	8.75	125.15	119.90
1	AA	1981	DG	N1-C6-O6	8.75	125.15	119.90
1	AA	6753	DG	N1-C6-O6	8.75	125.15	119.90
52	Aw	1	DG	N1-C6-O6	8.75	125.15	119.90
157	Cu	22	DG	N1-C6-O6	8.75	125.15	119.90
1	AA	3122	DA	P-O3'-C3'	8.75	130.20	119.70
1	AA	5149	DG	N1-C6-O6	8.75	125.15	119.90
1	AA	5254	DG	N1-C6-O6	8.75	125.15	119.90
27	AR	41	DG	N1-C6-O6	8.75	125.15	119.90
6	A4	30	DG	N1-C6-O6	8.75	125.15	119.90
72	BH	40	DG	N1-C6-O6	8.75	125.15	119.90
110	C0	7	DG	N1-C6-O6	8.75	125.15	119.90
132	CO	14	DG	N1-C6-O6	8.75	125.15	119.90
149	Cg	14	DG	N1-C6-O6	8.75	125.15	119.90
1	AA	452	DG	N1-C6-O6	8.75	125.15	119.90
1	AA	2849	DG	N1-C6-O6	8.75	125.15	119.90
1	AA	3897	DG	N1-C6-O6	8.75	125.15	119.90
1	AA	6961	DG	N1-C6-O6	8.75	125.15	119.90
9	A7	44	DC	P-O3'-C3'	8.75	130.20	119.70
59	B3	23	DG	N1-C6-O6	8.75	125.15	119.90
96	Bf	39	DG	N1-C6-O6	8.75	125.15	119.90
104	Bn	61	DG	N1-C6-O6	8.75	125.15	119.90
106	Bp	37	DG	N1-C6-O6	8.75	125.15	119.90
123	CF	37	DG	C5-C6-O6	-8.75	123.35	128.60
126	CI	21	DG	N1-C6-O6	8.75	125.15	119.90
129	CL	28	DG	N1-C6-O6	8.75	125.15	119.90
138	CU	30	DG	N1-C6-O6	8.75	125.15	119.90
1	AA	95	DG	N1-C6-O6	8.74	125.15	119.90
1	AA	2235	DG	N1-C6-O6	8.74	125.15	119.90
1	AA	3264	DG	N1-C6-O6	8.74	125.15	119.90
1	AA	3669	DG	N1-C6-O6	8.74	125.15	119.90
3	A1	34	DG	O4'-C4'-C3'	-8.74	100.75	106.00
11	AB	15	DG	N1-C6-O6	8.74	125.15	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
109	Bs	32	DG	N1-C6-O6	8.74	125.14	119.90
1	AA	126	DG	N1-C6-O6	8.74	125.14	119.90
1	AA	554	DG	N1-C6-O6	8.74	125.14	119.90
1	AA	6787	DG	N1-C6-O6	8.74	125.14	119.90
1	AA	7176	DG	N1-C6-O6	8.74	125.14	119.90
125	CH	35	DG	N1-C6-O6	8.74	125.14	119.90
1	AA	3932	DG	N1-C6-O6	8.74	125.14	119.90
1	AA	7226	DG	C5-C6-O6	-8.74	123.36	128.60
122	CE	1	DG	N1-C6-O6	8.74	125.14	119.90
1	AA	2133	DG	N1-C6-O6	8.74	125.14	119.90
1	AA	974	DG	N1-C6-O6	8.73	125.14	119.90
1	AA	3378	DG	N1-C6-O6	8.73	125.14	119.90
1	AA	7192	DG	N1-C6-O6	8.73	125.14	119.90
48	Ao	28	DG	N1-C6-O6	8.73	125.14	119.90
54	Ay	27	DG	N1-C6-O6	8.73	125.14	119.90
82	BR	55	DG	N1-C6-O6	8.73	125.14	119.90
94	Bd	55	DG	N1-C6-O6	8.73	125.14	119.90
98	Bh	3	DG	N1-C6-O6	8.73	125.14	119.90
119	CB	11	DG	N1-C6-O6	8.73	125.14	119.90
90	BZ	59	DG	N1-C6-O6	8.73	125.14	119.90
24	AO	4	DG	N1-C6-O6	8.73	125.14	119.90
28	AS	33	DG	N1-C6-O6	8.73	125.14	119.90
119	CB	20	DG	N1-C6-O6	8.73	125.14	119.90
1	AA	3594	DG	N1-C6-O6	8.73	125.14	119.90
28	AS	64	DG	N1-C6-O6	8.73	125.14	119.90
34	AY	7	DG	N1-C6-O6	8.73	125.14	119.90
65	B9	19	DG	N1-C6-O6	8.73	125.14	119.90
80	BP	20	DG	N1-C6-O6	8.73	125.14	119.90
1	AA	4763	DC	C1'-O4'-C4'	-8.73	101.37	110.10
17	AH	28	DG	N1-C6-O6	8.73	125.14	119.90
90	BZ	31	DG	N1-C6-O6	8.73	125.14	119.90
1	AA	1863	DG	N1-C6-O6	8.72	125.14	119.90
1	AA	2930	DG	N1-C6-O6	8.72	125.14	119.90
1	AA	5112	DG	N1-C6-O6	8.72	125.13	119.90
1	AA	6336	DG	N1-C6-O6	8.72	125.13	119.90
1	AA	7199	DG	N1-C6-O6	8.72	125.13	119.90
74	BJ	48	DG	N1-C6-O6	8.72	125.13	119.90
1	AA	731	DG	N1-C6-O6	8.72	125.13	119.90
1	AA	3123	DG	N1-C6-O6	8.72	125.13	119.90
1	AA	5894	DG	N1-C6-O6	8.72	125.13	119.90
1	AA	6947	DG	N1-C6-O6	8.72	125.13	119.90
33	AX	2	DG	N1-C6-O6	8.72	125.13	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
57	B1	27	DG	N1-C6-O6	8.72	125.13	119.90
69	BE	28	DG	N1-C6-O6	8.72	125.13	119.90
75	BK	19	DG	N1-C6-O6	8.72	125.13	119.90
84	BT	15	DG	N1-C6-O6	8.72	125.13	119.90
105	Bo	19	DG	N1-C6-O6	8.72	125.13	119.90
106	Bp	15	DG	N1-C6-O6	8.72	125.13	119.90
1	AA	1378	DG	C5-C6-O6	-8.72	123.37	128.60
1	AA	2348	DG	N1-C6-O6	8.72	125.13	119.90
1	AA	5394	DG	N1-C6-O6	8.72	125.13	119.90
1	AA	2101	DG	N1-C6-O6	8.72	125.13	119.90
1	AA	3723	DG	N1-C6-O6	8.72	125.13	119.90
1	AA	4788	DG	N1-C6-O6	8.72	125.13	119.90
5	A3	36	DG	N1-C6-O6	8.72	125.13	119.90
132	CO	48	DG	C5-C6-O6	-8.72	123.37	128.60
141	CX	18	DG	N1-C6-O6	8.72	125.13	119.90
1	AA	479	DG	N1-C6-O6	8.71	125.13	119.90
1	AA	749	DG	N1-C6-O6	8.71	125.13	119.90
1	AA	2134	DG	N1-C6-O6	8.71	125.13	119.90
1	AA	5761	DG	N1-C6-O6	8.72	125.13	119.90
1	AA	3953	DG	N1-C6-O6	8.71	125.13	119.90
1	AA	6790	DG	N1-C6-O6	8.71	125.13	119.90
1	AA	7223	DG	N1-C6-O6	8.71	125.13	119.90
37	Ac	63	DG	N1-C6-O6	8.71	125.13	119.90
71	BG	41	DG	N1-C6-O6	8.72	125.13	119.90
62	B6	43	DG	N1-C6-O6	8.71	125.13	119.90
105	Bo	8	DG	N1-C6-O6	8.71	125.13	119.90
105	Bo	31	DG	N1-C6-O6	8.71	125.13	119.90
1	AA	587	DG	N1-C6-O6	8.71	125.13	119.90
1	AA	1020	DG	N1-C6-O6	8.71	125.13	119.90
1	AA	2544	DG	N1-C6-O6	8.71	125.13	119.90
1	AA	3468	DG	N1-C6-O6	8.71	125.13	119.90
1	AA	6337	DG	N1-C6-O6	8.71	125.13	119.90
26	AQ	9	DG	N1-C6-O6	8.71	125.13	119.90
54	Ay	29	DG	N1-C6-O6	8.71	125.13	119.90
69	BE	48	DG	N1-C6-O6	8.71	125.13	119.90
1	AA	6404	DG	N1-C6-O6	8.71	125.13	119.90
99	Bi	24	DG	N1-C6-O6	8.71	125.13	119.90
1	AA	180	DG	N1-C6-O6	8.71	125.13	119.90
1	AA	7157	DG	N1-C6-O6	8.71	125.12	119.90
49	As	7	DG	N1-C6-O6	8.71	125.13	119.90
1	AA	6929	DG	N1-C6-O6	8.71	125.12	119.90
49	As	38	DG	N1-C6-O6	8.71	125.12	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
91	Ba	4	DG	C5-C6-O6	-8.71	123.37	128.60
106	Bp	19	DG	N1-C6-O6	8.71	125.13	119.90
82	BR	60	DG	N1-C6-O6	8.71	125.12	119.90
1	AA	4772	DG	C5-C6-O6	-8.71	123.38	128.60
69	BE	43	DG	N1-C6-O6	8.71	125.12	119.90
1	AA	1355	DG	N1-C6-O6	8.70	125.12	119.90
1	AA	1782	DG	N1-C6-O6	8.70	125.12	119.90
1	AA	2888	DG	N1-C6-O6	8.70	125.12	119.90
1	AA	5800	DG	N1-C6-O6	8.70	125.12	119.90
1	AA	6319	DG	N1-C6-O6	8.71	125.12	119.90
1	AA	7088	DG	N1-C6-O6	8.71	125.12	119.90
58	B2	1	DG	N1-C6-O6	8.71	125.12	119.90
70	BF	9	DG	N1-C6-O6	8.71	125.12	119.90
84	BT	11	DG	N1-C6-O6	8.70	125.12	119.90
1	AA	380	DG	N1-C6-O6	8.70	125.12	119.90
79	BO	10	DG	N1-C6-O6	8.70	125.12	119.90
1	AA	2276	DG	N1-C6-O6	8.70	125.12	119.90
1	AA	7035	DG	N1-C6-O6	8.70	125.12	119.90
8	A6	48	DG	N1-C6-O6	8.70	125.12	119.90
16	AG	22	DG	N1-C6-O6	8.70	125.12	119.90
55	Az	42	DC	P-O3'-C3'	8.70	130.14	119.70
86	BV	31	DG	N1-C6-O6	8.70	125.12	119.90
120	CC	1	DG	N1-C6-O6	8.70	125.12	119.90
1	AA	306	DG	N1-C6-O6	8.70	125.12	119.90
1	AA	3013	DG	N1-C6-O6	8.70	125.12	119.90
1	AA	6195	DG	N1-C6-O6	8.70	125.12	119.90
44	Ak	36	DG	N1-C6-O6	8.70	125.12	119.90
1	AA	215	DG	N1-C6-O6	8.70	125.12	119.90
1	AA	6620	DG	N1-C6-O6	8.70	125.12	119.90
34	AY	12	DG	N1-C6-O6	8.70	125.12	119.90
61	B5	10	DG	N1-C6-O6	8.70	125.12	119.90
104	Bn	47	DG	N1-C6-O6	8.70	125.12	119.90
116	C6	46	DG	N1-C6-O6	8.70	125.12	119.90
1	AA	213	DG	N1-C6-O6	8.70	125.12	119.90
1	AA	7214	DG	N1-C6-O6	8.70	125.12	119.90
77	BM	52	DG	N1-C6-O6	8.70	125.12	119.90
92	Bb	3	DC	O4'-C1'-N1	8.70	114.09	108.00
153	Cq	2	DG	N1-C6-O6	8.70	125.12	119.90
1	AA	5860	DG	N1-C6-O6	8.69	125.12	119.90
26	AQ	7	DG	N1-C6-O6	8.70	125.12	119.90
32	AW	17	DT	P-O3'-C3'	8.70	130.13	119.70
69	BE	51	DG	N1-C6-O6	8.70	125.12	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1083	DG	N1-C6-O6	8.69	125.12	119.90
1	AA	2778	DG	N1-C6-O6	8.69	125.12	119.90
1	AA	4716	DG	N1-C6-O6	8.69	125.11	119.90
1	AA	6822	DG	N1-C6-O6	8.69	125.12	119.90
53	Ax	40	DG	N1-C6-O6	8.69	125.12	119.90
109	Bs	37	DG	N1-C6-O6	8.69	125.11	119.90
150	Ch	44	DG	N1-C6-O6	8.69	125.12	119.90
1	AA	947	DG	N1-C6-O6	8.69	125.11	119.90
1	AA	1759	DG	N1-C6-O6	8.69	125.11	119.90
1	AA	2080	DG	N1-C6-O6	8.69	125.11	119.90
1	AA	3856	DG	N1-C6-O6	8.69	125.11	119.90
1	AA	3952	DG	N1-C6-O6	8.69	125.11	119.90
1	AA	4254	DG	C5-C6-O6	-8.69	123.39	128.60
13	AD	5	DG	N1-C6-O6	8.69	125.11	119.90
35	AZ	36	DG	O4'-C4'-C3'	-8.69	100.79	106.00
38	Ad	10	DG	C5-C6-O6	-8.69	123.39	128.60
68	BD	26	DG	N1-C6-O6	8.69	125.11	119.90
100	Bj	15	DG	N1-C6-O6	8.69	125.11	119.90
133	CP	30	DG	N1-C6-O6	8.69	125.11	119.90
1	AA	517	DG	N1-C6-O6	8.69	125.11	119.90
1	AA	3246	DG	N1-C6-O6	8.69	125.11	119.90
1	AA	3688	DG	N1-C6-O6	8.69	125.11	119.90
1	AA	3906	DG	N1-C6-O6	8.69	125.11	119.90
1	AA	4432	DG	N1-C6-O6	8.69	125.11	119.90
1	AA	6089	DC	O4'-C1'-N1	8.69	114.08	108.00
15	AF	2	DC	P-O3'-C3'	8.69	130.12	119.70
31	AV	51	DA	O4'-C1'-N9	8.69	114.08	108.00
46	Am	5	DG	N1-C6-O6	8.69	125.11	119.90
104	Bn	62	DG	N1-C6-O6	8.69	125.11	119.90
140	CW	15	DG	N1-C6-O6	8.69	125.11	119.90
151	Ck	32	DG	N1-C6-O6	8.69	125.11	119.90
1	AA	2142	DG	N1-C6-O6	8.68	125.11	119.90
1	AA	2483	DG	N1-C6-O6	8.68	125.11	119.90
1	AA	5121	DG	N1-C6-O6	8.68	125.11	119.90
16	AG	12	DG	N1-C6-O6	8.68	125.11	119.90
35	AZ	46	DG	N1-C6-O6	8.68	125.11	119.90
58	B2	6	DA	O4'-C4'-C3'	-8.68	100.79	106.00
81	BQ	38	DC	O4'-C4'-C3'	-8.68	100.79	106.00
107	Bq	53	DG	N1-C6-O6	8.68	125.11	119.90
135	CR	22	DG	N1-C6-O6	8.68	125.11	119.90
1	AA	615	DG	N1-C6-O6	8.68	125.11	119.90
1	AA	878	DG	N1-C6-O6	8.68	125.11	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3935	DG	N1-C6-O6	8.68	125.11	119.90
1	AA	6835	DG	N1-C6-O6	8.68	125.11	119.90
124	CG	19	DC	O4'-C4'-C3'	-8.68	100.79	106.00
126	CI	10	DG	N1-C6-O6	8.68	125.11	119.90
1	AA	2864	DG	C5-C6-O6	-8.68	123.39	128.60
1	AA	5617	DG	C5-C6-O6	-8.68	123.39	128.60
1	AA	6619	DG	N1-C6-O6	8.68	125.11	119.90
11	AB	35	DG	N1-C6-O6	8.68	125.11	119.90
87	BW	18	DG	N1-C6-O6	8.68	125.11	119.90
124	CG	4	DG	N1-C6-O6	8.68	125.11	119.90
135	CR	13	DG	N1-C6-O6	8.68	125.11	119.90
145	Cc	20	DG	N1-C6-O6	8.68	125.11	119.90
147	Ce	5	DG	N1-C6-O6	8.68	125.11	119.90
1	AA	4927	DG	N1-C6-O6	8.68	125.11	119.90
65	B9	49	DG	N1-C6-O6	8.68	125.11	119.90
117	C7	29	DG	N1-C6-O6	8.68	125.11	119.90
131	CN	34	DG	N1-C6-O6	8.68	125.11	119.90
1	AA	1993	DG	N1-C6-O6	8.67	125.10	119.90
1	AA	5742	DG	N1-C6-O6	8.67	125.10	119.90
26	AQ	11	DG	N1-C6-O6	8.67	125.10	119.90
91	Ba	46	DG	N1-C6-O6	8.67	125.10	119.90
142	CY	31	DA	O4'-C4'-C3'	-8.67	100.80	106.00
1	AA	448	DG	N1-C6-O6	8.67	125.10	119.90
1	AA	2727	DG	N1-C6-O6	8.67	125.10	119.90
1	AA	4987	DG	N1-C6-O6	8.67	125.10	119.90
1	AA	6722	DG	N1-C6-O6	8.67	125.10	119.90
40	Ag	31	DG	N1-C6-O6	8.67	125.10	119.90
94	Bd	25	DG	N1-C6-O6	8.67	125.10	119.90
106	Bp	48	DG	N1-C6-O6	8.67	125.10	119.90
121	CD	24	DG	C5-C6-O6	-8.67	123.40	128.60
12	AC	5	DG	N1-C6-O6	8.67	125.10	119.90
38	Ad	17	DG	C5-C6-O6	-8.67	123.40	128.60
56	B0	5	DG	N1-C6-O6	8.67	125.10	119.90
1	AA	3724	DG	N1-C6-O6	8.67	125.10	119.90
1	AA	5061	DG	N1-C6-O6	8.67	125.10	119.90
1	AA	6761	DG	N1-C6-O6	8.67	125.10	119.90
47	An	13	DG	N1-C6-O6	8.67	125.10	119.90
65	B9	26	DG	C5-C6-O6	-8.67	123.40	128.60
66	BB	21	DG	N1-C6-O6	8.67	125.10	119.90
99	Bi	14	DG	N1-C6-O6	8.67	125.10	119.90
1	AA	490	DG	N1-C6-O6	8.66	125.10	119.90
1	AA	4746	DG	N1-C6-O6	8.66	125.10	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
55	Az	11	DG	N1-C6-O6	8.66	125.10	119.90
66	BB	48	DG	N1-C6-O6	8.66	125.10	119.90
85	BU	7	DG	N1-C6-O6	8.66	125.10	119.90
141	CX	20	DG	N1-C6-O6	8.66	125.10	119.90
157	Cu	20	DG	C5-C6-O6	-8.66	123.40	128.60
1	AA	17	DG	N1-C6-O6	8.66	125.10	119.90
148	Cf	15	DG	N1-C6-O6	8.66	125.10	119.90
1	AA	367	DG	N1-C6-O6	8.66	125.10	119.90
1	AA	4535	DG	N1-C6-O6	8.66	125.09	119.90
26	AQ	38	DG	N1-C6-O6	8.66	125.10	119.90
102	Bl	42	DG	N1-C6-O6	8.66	125.09	119.90
4	A2	12	DA	P-O3'-C3'	8.66	130.09	119.70
1	AA	639	DC	O4'-C4'-C3'	-8.66	100.81	106.00
1	AA	6672	DG	N1-C6-O6	8.66	125.09	119.90
10	A8	27	DG	N1-C6-O6	8.66	125.09	119.90
12	AC	2	DA	O4'-C4'-C3'	-8.66	100.81	106.00
59	B3	35	DG	N1-C6-O6	8.66	125.09	119.90
126	CI	26	DG	N1-C6-O6	8.66	125.09	119.90
1	AA	999	DG	N1-C6-O6	8.65	125.09	119.90
1	AA	1085	DG	N1-C6-O6	8.65	125.09	119.90
1	AA	2602	DG	N1-C6-O6	8.65	125.09	119.90
1	AA	3396	DG	N1-C6-O6	8.65	125.09	119.90
107	Bq	41	DG	N1-C6-O6	8.65	125.09	119.90
140	CW	33	DG	N1-C6-O6	8.65	125.09	119.90
147	Ce	20	DG	N1-C6-O6	8.65	125.09	119.90
1	AA	175	DG	N1-C6-O6	8.65	125.09	119.90
1	AA	705	DG	N1-C6-O6	8.65	125.09	119.90
1	AA	2158	DG	N1-C6-O6	8.65	125.09	119.90
1	AA	2961	DG	N1-C6-O6	8.65	125.09	119.90
1	AA	3080	DG	C5-C6-O6	-8.65	123.41	128.60
1	AA	4143	DG	N1-C6-O6	8.65	125.09	119.90
1	AA	4225	DG	N1-C6-O6	8.65	125.09	119.90
1	AA	5469	DG	N1-C6-O6	8.65	125.09	119.90
26	AQ	18	DG	N1-C6-O6	8.65	125.09	119.90
114	C4	27	DG	N1-C6-O6	8.65	125.09	119.90
116	C6	31	DG	N1-C6-O6	8.65	125.09	119.90
1	AA	889	DG	N1-C6-O6	8.65	125.09	119.90
1	AA	4532	DG	N1-C6-O6	8.65	125.09	119.90
1	AA	6175	DG	N1-C6-O6	8.65	125.09	119.90
19	AJ	52	DG	N1-C6-O6	8.65	125.09	119.90
119	CB	23	DG	N1-C6-O6	8.65	125.09	119.90
1	AA	4260	DG	N1-C6-O6	8.65	125.09	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
17	AH	4	DG	N1-C6-O6	8.65	125.09	119.90
50	Au	32	DG	N1-C6-O6	8.65	125.09	119.90
65	B9	15	DG	N1-C6-O6	8.65	125.09	119.90
54	Ay	6	DG	N1-C6-O6	8.65	125.09	119.90
140	CW	37	DC	O4'-C1'-N1	8.65	114.05	108.00
106	Bp	36	DG	N1-C6-O6	8.65	125.09	119.90
1	AA	581	DG	N1-C6-O6	8.64	125.09	119.90
1	AA	2174	DG	N1-C6-O6	8.64	125.09	119.90
1	AA	4845	DG	N1-C6-O6	8.64	125.09	119.90
1	AA	6473	DG	N1-C6-O6	8.64	125.09	119.90
18	AI	20	DG	N1-C6-O6	8.64	125.09	119.90
56	B0	23	DG	N1-C6-O6	8.64	125.09	119.90
87	BW	26	DG	N1-C6-O6	8.64	125.09	119.90
65	B9	46	DG	N1-C6-O6	8.64	125.09	119.90
101	Bk	39	DG	N1-C6-O6	8.64	125.09	119.90
103	Bm	34	DG	N1-C6-O6	8.64	125.09	119.90
132	CO	15	DG	C5-C6-O6	-8.64	123.41	128.60
150	Ch	24	DG	N1-C6-O6	8.64	125.09	119.90
1	AA	791	DG	N1-C6-O6	8.64	125.08	119.90
1	AA	1243	DG	N1-C6-O6	8.64	125.08	119.90
1	AA	2952	DG	N1-C6-O6	8.64	125.08	119.90
1	AA	5111	DG	N1-C6-O6	8.64	125.08	119.90
63	B7	30	DG	N1-C6-O6	8.64	125.08	119.90
69	BE	7	DG	N1-C6-O6	8.64	125.08	119.90
102	Bl	23	DG	N1-C6-O6	8.64	125.08	119.90
138	CU	1	DA	O4'-C4'-C3'	-8.64	100.81	106.00
8	A6	7	DG	N1-C6-O6	8.64	125.08	119.90
68	BD	14	DG	N1-C6-O6	8.64	125.08	119.90
95	Be	48	DG	N1-C6-O6	8.64	125.08	119.90
161	Cy	62	DG	N1-C6-O6	8.64	125.08	119.90
1	AA	230	DG	N1-C6-O6	8.64	125.08	119.90
1	AA	5361	DG	N1-C6-O6	8.64	125.08	119.90
131	CN	21	DG	N1-C6-O6	8.64	125.08	119.90
1	AA	645	DG	N1-C6-O6	8.64	125.08	119.90
1	AA	1875	DG	N1-C6-O6	8.63	125.08	119.90
1	AA	2981	DG	N1-C6-O6	8.64	125.08	119.90
1	AA	4140	DG	N1-C6-O6	8.63	125.08	119.90
1	AA	5481	DG	C5-C6-O6	-8.63	123.42	128.60
141	CX	46	DG	N1-C6-O6	8.64	125.08	119.90
42	Ai	14	DG	N1-C6-O6	8.63	125.08	119.90
114	C4	2	DG	N1-C6-O6	8.63	125.08	119.90
1	AA	1815	DG	N1-C6-O6	8.63	125.08	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3801	DG	N1-C6-O6	8.63	125.08	119.90
86	BV	22	DG	N1-C6-O6	8.63	125.08	119.90
1	AA	2209	DG	N1-C6-O6	8.63	125.08	119.90
21	AL	45	DG	N1-C6-O6	8.63	125.08	119.90
1	AA	2412	DG	N1-C6-O6	8.63	125.08	119.90
1	AA	2441	DG	N1-C6-O6	8.63	125.08	119.90
1	AA	4646	DG	N1-C6-O6	8.63	125.08	119.90
85	BU	13	DG	N1-C6-O6	8.63	125.08	119.90
107	Bq	5	DG	N1-C6-O6	8.63	125.08	119.90
136	CS	48	DG	N1-C6-O6	8.63	125.08	119.90
1	AA	233	DG	N1-C6-O6	8.63	125.08	119.90
1	AA	1271	DG	N1-C6-O6	8.63	125.08	119.90
1	AA	2638	DG	N1-C6-O6	8.63	125.08	119.90
26	AQ	20	DG	C5-C6-O6	-8.63	123.42	128.60
143	CZ	36	DG	N1-C6-O6	8.63	125.08	119.90
1	AA	4069	DG	N1-C6-O6	8.63	125.08	119.90
1	AA	4095	DG	N1-C6-O6	8.63	125.08	119.90
1	AA	6418	DG	P-O5'-C5'	8.63	134.70	120.90
39	Af	41	DG	N1-C6-O6	8.63	125.08	119.90
110	C0	36	DG	N1-C6-O6	8.63	125.08	119.90
145	Cc	18	DG	N1-C6-O6	8.63	125.08	119.90
1	AA	700	DG	N1-C6-O6	8.62	125.08	119.90
1	AA	2129	DG	C5-C6-O6	-8.62	123.42	128.60
1	AA	6330	DG	N1-C6-O6	8.62	125.08	119.90
1	AA	6419	DG	C5-C6-O6	-8.62	123.42	128.60
34	AY	37	DG	N1-C6-O6	8.62	125.07	119.90
90	BZ	30	DG	N1-C6-O6	8.62	125.08	119.90
1	AA	115	DG	N1-C6-O6	8.62	125.07	119.90
93	Bc	5	DG	N1-C6-O6	8.62	125.07	119.90
1	AA	253	DG	N1-C6-O6	8.62	125.07	119.90
1	AA	3479	DG	N1-C6-O6	8.62	125.07	119.90
1	AA	6860	DG	N1-C6-O6	8.62	125.07	119.90
1	AA	7236	DG	N1-C6-O6	8.62	125.07	119.90
29	AT	36	DG	N1-C6-O6	8.62	125.07	119.90
31	AV	45	DG	N1-C6-O6	8.62	125.07	119.90
63	B7	23	DG	N1-C6-O6	8.62	125.07	119.90
87	BW	25	DG	N1-C6-O6	8.62	125.07	119.90
100	Bj	2	DG	N1-C6-O6	8.62	125.07	119.90
145	Cc	17	DG	N1-C6-O6	8.62	125.07	119.90
1	AA	2512	DG	N1-C6-O6	8.62	125.07	119.90
1	AA	3310	DG	N1-C6-O6	8.62	125.07	119.90
1	AA	4062	DG	C5-C6-O6	-8.62	123.43	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	AZ	6	DG	N1-C6-O6	8.62	125.07	119.90
91	Ba	21	DG	N1-C6-O6	8.62	125.07	119.90
1	AA	586	DG	N1-C6-O6	8.62	125.07	119.90
1	AA	4536	DG	O4'-C4'-C3'	-8.62	100.83	106.00
1	AA	5325	DA	P-O5'-C5'	8.62	134.69	120.90
1	AA	7014	DG	N1-C6-O6	8.62	125.07	119.90
19	AJ	26	DG	N1-C6-O6	8.62	125.07	119.90
74	BJ	17	DG	N1-C6-O6	8.62	125.07	119.90
139	CV	38	DG	N1-C6-O6	8.62	125.07	119.90
151	Ck	20	DG	N1-C6-O6	8.62	125.07	119.90
1	AA	39	DG	N1-C6-O6	8.62	125.07	119.90
1	AA	1934	DG	N1-C6-O6	8.62	125.07	119.90
107	Bq	42	DG	N1-C6-O6	8.62	125.07	119.90
158	Cv	23	DG	N1-C6-O6	8.62	125.07	119.90
1	AA	3149	DT	O4'-C1'-C2'	-8.61	99.01	105.90
1	AA	3209	DG	N1-C6-O6	8.61	125.07	119.90
1	AA	3828	DG	N1-C6-O6	8.61	125.07	119.90
1	AA	5239	DG	C5-C6-O6	-8.61	123.43	128.60
4	A2	4	DA	O4'-C1'-N9	8.62	114.03	108.00
16	AG	23	DG	N1-C6-O6	8.62	125.07	119.90
144	Cb	24	DA	P-O3'-C3'	8.62	130.04	119.70
1	AA	1120	DG	N1-C6-O6	8.61	125.07	119.90
1	AA	1719	DG	N1-C6-O6	8.61	125.07	119.90
1	AA	2155	DG	N1-C6-O6	8.61	125.07	119.90
1	AA	2951	DG	C5-C6-O6	-8.61	123.43	128.60
1	AA	3388	DG	C5-C6-O6	-8.61	123.43	128.60
1	AA	4035	DG	N1-C6-O6	8.61	125.07	119.90
1	AA	4086	DG	N1-C6-O6	8.61	125.07	119.90
1	AA	6186	DG	N1-C6-O6	8.61	125.07	119.90
1	AA	7000	DG	C5-C6-O6	-8.61	123.43	128.60
11	AB	25	DG	N1-C6-O6	8.61	125.07	119.90
1	AA	6571	DG	N1-C6-O6	8.61	125.07	119.90
41	Ah	14	DG	N1-C6-O6	8.61	125.07	119.90
78	BN	62	DG	N1-C6-O6	8.61	125.07	119.90
100	Bj	29	DG	N1-C6-O6	8.61	125.07	119.90
106	Bp	44	DG	N1-C6-O6	8.61	125.07	119.90
110	C0	41	DG	N1-C6-O6	8.61	125.07	119.90
118	C8	26	DG	N1-C6-O6	8.61	125.07	119.90
122	CE	40	DG	N1-C6-O6	8.61	125.07	119.90
137	CT	35	DG	C5-C6-O6	-8.61	123.43	128.60
1	AA	2677	DG	N1-C6-O6	8.61	125.07	119.90
1	AA	3802	DG	N1-C6-O6	8.61	125.07	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2370	DG	C5-C6-O6	-8.61	123.44	128.60
1	AA	3373	DG	N1-C6-O6	8.61	125.07	119.90
5	A3	15	DT	O4'-C4'-C3'	-8.61	100.83	106.00
28	AS	32	DG	N1-C6-O6	8.61	125.06	119.90
81	BQ	4	DG	N1-C6-O6	8.61	125.07	119.90
135	CR	15	DG	N1-C6-O6	8.61	125.07	119.90
1	AA	2776	DG	N1-C6-O6	8.61	125.06	119.90
1	AA	3757	DA	P-O3'-C3'	8.61	130.03	119.70
29	AT	23	DG	N1-C6-O6	8.61	125.06	119.90
160	Cx	32	DG	N1-C6-O6	8.61	125.06	119.90
1	AA	3907	DG	N1-C6-O6	8.61	125.06	119.90
1	AA	6157	DG	N1-C6-O6	8.61	125.06	119.90
1	AA	6814	DG	N1-C6-O6	8.61	125.06	119.90
6	A4	36	DG	N1-C6-O6	8.61	125.06	119.90
43	Aj	25	DG	C5-C6-O6	-8.61	123.44	128.60
115	C5	7	DG	N1-C6-O6	8.61	125.06	119.90
1	AA	2003	DG	N1-C6-O6	8.60	125.06	119.90
1	AA	3469	DG	N1-C6-O6	8.60	125.06	119.90
1	AA	5853	DG	N1-C6-O6	8.60	125.06	119.90
13	AD	48	DG	N1-C6-O6	8.60	125.06	119.90
28	AS	14	DG	N1-C6-O6	8.60	125.06	119.90
46	Am	46	DT	O4'-C4'-C3'	-8.60	100.84	106.00
56	B0	48	DG	N1-C6-O6	8.60	125.06	119.90
87	BW	6	DG	N1-C6-O6	8.60	125.06	119.90
37	Ac	65	DG	N1-C6-O6	8.60	125.06	119.90
57	B1	29	DG	N1-C6-O6	8.60	125.06	119.90
69	BE	46	DC	O4'-C4'-C3'	-8.60	100.84	106.00
133	CP	23	DG	N1-C6-O6	8.60	125.06	119.90
1	AA	2894	DG	C5-C6-O6	-8.60	123.44	128.60
1	AA	3248	DG	N1-C6-O6	8.60	125.06	119.90
1	AA	3618	DG	N1-C6-O6	8.60	125.06	119.90
1	AA	3858	DG	N1-C6-O6	8.60	125.06	119.90
1	AA	3870	DG	N1-C6-O6	8.60	125.06	119.90
1	AA	4089	DG	N1-C6-O6	8.60	125.06	119.90
89	BY	13	DG	N1-C6-O6	8.60	125.06	119.90
1	AA	4725	DG	N1-C6-O6	8.60	125.06	119.90
1	AA	6663	DG	N1-C6-O6	8.60	125.06	119.90
1	AA	943	DG	N1-C6-O6	8.60	125.06	119.90
1	AA	2714	DG	C5-C6-O6	-8.60	123.44	128.60
1	AA	2987	DG	N1-C6-O6	8.60	125.06	119.90
1	AA	5394	DG	P-O3'-C3'	8.60	130.01	119.70
14	AE	45	DG	N1-C6-O6	8.60	125.06	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
28	AS	32	DG	O4'-C1'-N9	8.60	114.02	108.00
93	Bc	9	DG	N1-C6-O6	8.60	125.06	119.90
104	Bn	50	DG	N1-C6-O6	8.60	125.06	119.90
155	Cs	31	DG	C5-C6-O6	-8.60	123.44	128.60
159	Cw	16	DG	N1-C6-O6	8.60	125.06	119.90
1	AA	1188	DG	N1-C6-O6	8.59	125.06	119.90
1	AA	2447	DG	N1-C6-O6	8.59	125.06	119.90
1	AA	3228	DG	N1-C6-O6	8.59	125.06	119.90
1	AA	3270	DG	N1-C6-O6	8.59	125.06	119.90
1	AA	4210	DG	N1-C6-O6	8.59	125.06	119.90
1	AA	7227	DG	N1-C6-O6	8.59	125.06	119.90
16	AG	13	DG	N1-C6-O6	8.59	125.06	119.90
25	AP	2	DG	C5-C6-O6	-8.59	123.44	128.60
56	B0	7	DG	N1-C6-O6	8.59	125.06	119.90
91	Ba	26	DG	N1-C6-O6	8.59	125.06	119.90
106	Bp	18	DG	N1-C6-O6	8.59	125.06	119.90
1	AA	3204	DG	N1-C6-O6	8.59	125.05	119.90
1	AA	5622	DG	C5-C6-O6	-8.59	123.44	128.60
23	AN	29	DG	N1-C6-O6	8.59	125.06	119.90
71	BG	11	DG	C5-C6-O6	-8.59	123.45	128.60
1	AA	2306	DG	N1-C6-O6	8.59	125.05	119.90
1	AA	2612	DG	C5-C6-O6	-8.59	123.45	128.60
1	AA	3879	DG	N1-C6-O6	8.59	125.05	119.90
92	Bb	60	DC	P-O3'-C3'	8.59	130.01	119.70
1	AA	2855	DG	C5-C6-O6	-8.59	123.45	128.60
10	A8	47	DG	N1-C6-O6	8.59	125.05	119.90
12	AC	19	DG	O4'-C4'-C3'	-8.59	100.85	106.00
1	AA	6631	DG	N1-C6-O6	8.59	125.05	119.90
43	Aj	1	DG	N1-C6-O6	8.59	125.05	119.90
2	A0	17	DG	N1-C6-O6	8.58	125.05	119.90
22	AM	17	DG	P-O3'-C3'	8.58	130.00	119.70
96	Bf	43	DG	N1-C6-O6	8.58	125.05	119.90
1	AA	540	DG	N1-C6-O6	8.58	125.05	119.90
1	AA	1519	DG	N1-C6-O6	8.58	125.05	119.90
1	AA	1725	DG	N1-C6-O6	8.58	125.05	119.90
1	AA	4171	DG	N1-C6-O6	8.58	125.05	119.90
1	AA	5611	DG	N1-C6-O6	8.58	125.05	119.90
1	AA	6592	DG	N1-C6-O6	8.58	125.05	119.90
1	AA	6767	DG	N1-C6-O6	8.58	125.05	119.90
1	AA	6909	DG	C5-C6-O6	-8.58	123.45	128.60
11	AB	30	DG	N1-C6-O6	8.58	125.05	119.90
18	AI	22	DG	C5-C6-O6	-8.58	123.45	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
56	B0	8	DG	N1-C6-O6	8.58	125.05	119.90
58	B2	24	DG	N1-C6-O6	8.58	125.05	119.90
1	AA	3287	DT	O4'-C4'-C3'	-8.58	100.85	106.00
1	AA	3609	DG	N1-C6-O6	8.58	125.05	119.90
1	AA	6724	DG	N1-C6-O6	8.58	125.05	119.90
63	B7	4	DG	N1-C6-O6	8.58	125.05	119.90
85	BU	14	DG	N1-C6-O6	8.58	125.05	119.90
106	Bp	14	DG	N1-C6-O6	8.58	125.05	119.90
141	CX	40	DG	C5-C6-O6	-8.58	123.45	128.60
1	AA	4096	DG	N1-C6-O6	8.58	125.05	119.90
46	Am	25	DG	N1-C6-O6	8.58	125.05	119.90
46	Am	31	DG	C5-C6-O6	-8.58	123.45	128.60
63	B7	11	DG	N1-C6-O6	8.58	125.05	119.90
109	Bs	38	DG	N1-C6-O6	8.58	125.05	119.90
125	CH	33	DG	N1-C6-O6	8.58	125.05	119.90
128	CK	47	DG	N1-C6-O6	8.58	125.05	119.90
140	CW	35	DG	N1-C6-O6	8.58	125.05	119.90
1	AA	344	DG	N1-C6-O6	8.57	125.05	119.90
1	AA	1247	DG	N1-C6-O6	8.57	125.05	119.90
1	AA	2613	DG	N1-C6-O6	8.57	125.04	119.90
11	AB	10	DG	N1-C6-O6	8.57	125.05	119.90
1	AA	5359	DG	N1-C6-O6	8.57	125.04	119.90
1	AA	6554	DG	N1-C6-O6	8.57	125.04	119.90
1	AA	7037	DG	N1-C6-O6	8.57	125.04	119.90
127	CJ	38	DG	N1-C6-O6	8.57	125.04	119.90
1	AA	2469	DG	N1-C6-O6	8.57	125.04	119.90
1	AA	3403	DG	N1-C6-O6	8.57	125.04	119.90
1	AA	3894	DG	N1-C6-O6	8.57	125.04	119.90
1	AA	4334	DG	N1-C6-O6	8.57	125.04	119.90
1	AA	6497	DG	N1-C6-O6	8.57	125.04	119.90
28	AS	43	DG	N1-C6-O6	8.57	125.04	119.90
83	BS	20	DG	C5-C6-O6	-8.57	123.46	128.60
95	Be	13	DG	N1-C6-O6	8.57	125.04	119.90
124	CG	27	DG	N1-C6-O6	8.57	125.04	119.90
1	AA	508	DG	N1-C6-O6	8.57	125.04	119.90
1	AA	3630	DG	N1-C6-O6	8.57	125.04	119.90
1	AA	3804	DG	N1-C6-O6	8.57	125.04	119.90
1	AA	5016	DG	N1-C6-O6	8.57	125.04	119.90
17	AH	1	DC	O4'-C1'-N1	8.57	114.00	108.00
35	AZ	16	DG	N1-C6-O6	8.57	125.04	119.90
140	CW	17	DG	N1-C6-O6	8.57	125.04	119.90
161	Cy	31	DG	N1-C6-O6	8.57	125.04	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5453	DG	C5-C6-O6	-8.57	123.46	128.60
37	Ac	58	DG	N1-C6-O6	8.57	125.04	119.90
39	Af	42	DG	N1-C6-O6	8.57	125.04	119.90
1	AA	2268	DG	N1-C6-O6	8.57	125.04	119.90
1	AA	3081	DG	N1-C6-O6	8.57	125.04	119.90
1	AA	3241	DA	O4'-C4'-C3'	-8.57	100.86	106.00
26	AQ	24	DG	N1-C6-O6	8.57	125.04	119.90
117	C7	45	DC	O4'-C4'-C3'	-8.57	100.86	106.00
145	Cc	56	DT	O4'-C4'-C3'	-8.57	100.86	106.00
1	AA	4713	DG	N1-C6-O6	8.57	125.04	119.90
1	AA	6698	DG	N1-C6-O6	8.57	125.04	119.90
156	Ct	34	DG	N1-C6-O6	8.57	125.04	119.90
1	AA	106	DG	N1-C6-O6	8.56	125.04	119.90
1	AA	6738	DG	N1-C6-O6	8.56	125.04	119.90
1	AA	1767	DG	N1-C6-O6	8.56	125.04	119.90
1	AA	2516	DG	N1-C6-O6	8.56	125.04	119.90
1	AA	3972	DG	N1-C6-O6	8.56	125.04	119.90
77	BM	51	DG	N1-C6-O6	8.56	125.04	119.90
115	C5	60	DG	N1-C6-O6	8.56	125.04	119.90
157	Cu	29	DG	N1-C6-O6	8.56	125.04	119.90
1	AA	696	DG	N1-C6-O6	8.56	125.04	119.90
1	AA	3895	DG	N1-C6-O6	8.56	125.04	119.90
1	AA	4645	DG	N1-C6-O6	8.56	125.04	119.90
1	AA	7034	DG	N1-C6-O6	8.56	125.04	119.90
116	C6	10	DA	O4'-C4'-C3'	-8.56	100.86	106.00
154	Cr	9	DG	N1-C6-O6	8.56	125.04	119.90
1	AA	420	DG	N1-C6-O6	8.56	125.03	119.90
1	AA	1535	DG	N1-C6-O6	8.56	125.03	119.90
1	AA	2215	DG	N1-C6-O6	8.56	125.03	119.90
1	AA	2577	DG	N1-C6-O6	8.56	125.04	119.90
1	AA	2968	DG	N1-C6-O6	8.56	125.03	119.90
1	AA	5034	DG	N1-C6-O6	8.56	125.03	119.90
11	AB	6	DG	N1-C6-O6	8.56	125.03	119.90
31	AV	7	DG	N1-C6-O6	8.56	125.03	119.90
114	C4	43	DG	N1-C6-O6	8.56	125.03	119.90
94	Bd	49	DG	N1-C6-O6	8.56	125.03	119.90
99	Bi	61	DG	N1-C6-O6	8.56	125.03	119.90
149	Cg	29	DG	N1-C6-O6	8.56	125.03	119.90
150	Ch	22	DG	N1-C6-O6	8.56	125.03	119.90
162	Cz	18	DG	N1-C6-O6	8.56	125.03	119.90
1	AA	1101	DA	C1'-O4'-C4'	-8.56	101.54	110.10
48	Ao	10	DG	C5-C6-O6	-8.56	123.47	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
99	Bi	42	DG	N1-C6-O6	8.56	125.03	119.90
1	AA	5256	DG	N1-C6-O6	8.55	125.03	119.90
14	AE	9	DG	N1-C6-O6	8.55	125.03	119.90
154	Cr	41	DC	P-O3'-C3'	8.55	129.97	119.70
1	AA	220	DG	N1-C6-O6	8.55	125.03	119.90
1	AA	712	DG	N1-C6-O6	8.55	125.03	119.90
1	AA	3354	DG	N1-C6-O6	8.55	125.03	119.90
1	AA	3381	DG	C5-C6-O6	-8.55	123.47	128.60
1	AA	6151	DG	N1-C6-O6	8.55	125.03	119.90
1	AA	6181	DG	N1-C6-O6	8.55	125.03	119.90
36	Ab	23	DG	N1-C6-O6	8.55	125.03	119.90
37	Ac	54	DG	N1-C6-O6	8.55	125.03	119.90
127	CJ	35	DG	N1-C6-O6	8.55	125.03	119.90
42	Ai	9	DG	N1-C6-O6	8.55	125.03	119.90
99	Bi	6	DG	C5-C6-O6	-8.55	123.47	128.60
152	Cp	9	DG	N1-C6-O6	8.55	125.03	119.90
1	AA	862	DG	N1-C6-O6	8.55	125.03	119.90
1	AA	3735	DG	N1-C6-O6	8.55	125.03	119.90
1	AA	6646	DG	N1-C6-O6	8.55	125.03	119.90
16	AG	8	DG	N1-C6-O6	8.55	125.03	119.90
63	B7	1	DG	N1-C6-O6	8.55	125.03	119.90
94	Bd	11	DG	N1-C6-O6	8.55	125.03	119.90
103	Bm	15	DG	N1-C6-O6	8.55	125.03	119.90
107	Bq	22	DG	N1-C6-O6	8.55	125.03	119.90
136	CS	17	DG	N1-C6-O6	8.55	125.03	119.90
136	CS	47	DG	N1-C6-O6	8.55	125.03	119.90
1	AA	6484	DG	N1-C6-O6	8.55	125.03	119.90
20	AK	4	DG	N1-C6-O6	8.55	125.03	119.90
23	AN	39	DG	N1-C6-O6	8.55	125.03	119.90
81	BQ	37	DG	N1-C6-O6	8.55	125.03	119.90
117	C7	7	DG	N1-C6-O6	8.55	125.03	119.90
146	Cd	2	DA	O4'-C4'-C3'	-8.55	100.87	106.00
1	AA	2996	DG	N1-C6-O6	8.54	125.03	119.90
1	AA	3602	DG	C5-C6-O6	-8.54	123.47	128.60
1	AA	6351	DG	N1-C6-O6	8.55	125.03	119.90
127	CJ	51	DG	N1-C6-O6	8.55	125.03	119.90
1	AA	4981	DG	N1-C6-O6	8.54	125.03	119.90
1	AA	6700	DG	N1-C6-O6	8.54	125.03	119.90
13	AD	10	DG	N1-C6-O6	8.54	125.03	119.90
21	AL	30	DG	N1-C6-O6	8.54	125.03	119.90
71	BG	19	DG	N1-C6-O6	8.54	125.03	119.90
1	AA	1617	DT	P-O3'-C3'	8.54	129.95	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2404	DG	N1-C6-O6	8.54	125.03	119.90
71	BG	8	DG	N1-C6-O6	8.54	125.03	119.90
1	AA	246	DG	N1-C6-O6	8.54	125.03	119.90
1	AA	6823	DG	N1-C6-O6	8.54	125.03	119.90
1	AA	7030	DG	N1-C6-O6	8.54	125.03	119.90
24	AO	45	DG	N1-C6-O6	8.54	125.03	119.90
75	BK	29	DG	N1-C6-O6	8.54	125.03	119.90
1	AA	1178	DG	N1-C6-O6	8.54	125.02	119.90
1	AA	2216	DG	N1-C6-O6	8.54	125.02	119.90
1	AA	2533	DG	N1-C6-O6	8.54	125.02	119.90
161	Cy	48	DG	N1-C6-O6	8.54	125.02	119.90
1	AA	1143	DG	N1-C6-O6	8.54	125.02	119.90
1	AA	2525	DT	O4'-C4'-C3'	-8.54	100.88	106.00
1	AA	4791	DG	N1-C6-O6	8.54	125.02	119.90
1	AA	5100	DG	N1-C6-O6	8.54	125.02	119.90
59	B3	21	DG	N1-C6-O6	8.54	125.02	119.90
1	AA	748	DG	N1-C6-O6	8.54	125.02	119.90
1	AA	5082	DG	N1-C6-O6	8.54	125.02	119.90
1	AA	1169	DG	N1-C6-O6	8.53	125.02	119.90
1	AA	1957	DG	N1-C6-O6	8.54	125.02	119.90
1	AA	2347	DG	N1-C6-O6	8.53	125.02	119.90
1	AA	2663	DT	O4'-C4'-C3'	-8.53	100.88	106.00
1	AA	3883	DG	N1-C6-O6	8.53	125.02	119.90
37	Ac	18	DG	N1-C6-O6	8.53	125.02	119.90
131	CN	14	DG	N1-C6-O6	8.53	125.02	119.90
141	CX	14	DG	N1-C6-O6	8.53	125.02	119.90
159	Cw	41	DG	N1-C6-O6	8.53	125.02	119.90
1	AA	165	DG	N1-C6-O6	8.53	125.02	119.90
160	Cx	29	DG	N1-C6-O6	8.53	125.02	119.90
1	AA	218	DG	N1-C6-O6	8.53	125.02	119.90
1	AA	1336	DG	N1-C6-O6	8.53	125.02	119.90
1	AA	2804	DG	N1-C6-O6	8.53	125.02	119.90
1	AA	3237	DG	N1-C6-O6	8.53	125.02	119.90
1	AA	3309	DG	N1-C6-O6	8.53	125.02	119.90
99	Bi	14	DG	O4'-C4'-C3'	-8.53	100.88	106.00
1	AA	4682	DG	N1-C6-O6	8.53	125.02	119.90
26	AQ	42	DG	N1-C6-O6	8.53	125.02	119.90
81	BQ	23	DG	N1-C6-O6	8.53	125.02	119.90
144	Cb	20	DG	O4'-C1'-N9	8.53	113.97	108.00
1	AA	5905	DG	N1-C6-O6	8.53	125.02	119.90
10	A8	14	DG	C5-C6-O6	-8.53	123.48	128.60
17	AH	34	DG	N1-C6-O6	8.53	125.02	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
60	B4	13	DG	N1-C6-O6	8.53	125.02	119.90
125	CH	14	DG	N1-C6-O6	8.53	125.02	119.90
149	Cg	45	DG	N1-C6-O6	8.53	125.02	119.90
162	Cz	4	DA	O4'-C1'-N9	8.53	113.97	108.00
1	AA	688	DG	N1-C6-O6	8.53	125.02	119.90
1	AA	227	DG	N1-C6-O6	8.53	125.02	119.90
1	AA	1501	DG	N1-C6-O6	8.53	125.02	119.90
108	Br	9	DG	N1-C6-O6	8.53	125.02	119.90
1	AA	1649	DG	N1-C6-O6	8.53	125.02	119.90
1	AA	2600	DG	N1-C6-O6	8.53	125.02	119.90
1	AA	4135	DG	N1-C6-O6	8.53	125.02	119.90
1	AA	5488	DG	C5-C6-O6	-8.53	123.48	128.60
1	AA	6856	DG	N1-C6-O6	8.53	125.02	119.90
129	CL	35	DG	N1-C6-O6	8.53	125.02	119.90
130	CM	11	DG	N1-C6-O6	8.53	125.02	119.90
135	CR	42	DA	O4'-C4'-C3'	-8.53	100.89	106.00
1	AA	455	DG	N1-C6-O6	8.52	125.01	119.90
1	AA	952	DG	N1-C6-O6	8.52	125.01	119.90
1	AA	2526	DG	N1-C6-O6	8.52	125.01	119.90
1	AA	3276	DG	N1-C6-O6	8.52	125.01	119.90
1	AA	3693	DG	N1-C6-O6	8.52	125.01	119.90
1	AA	5731	DC	O4'-C4'-C3'	-8.52	100.89	106.00
3	A1	41	DG	N1-C6-O6	8.52	125.01	119.90
13	AD	15	DG	N1-C6-O6	8.52	125.01	119.90
29	AT	41	DG	N1-C6-O6	8.52	125.02	119.90
84	BT	19	DG	N1-C6-O6	8.52	125.01	119.90
124	CG	33	DG	N1-C6-O6	8.52	125.01	119.90
1	AA	6312	DG	N1-C6-O6	8.52	125.01	119.90
68	BD	25	DG	N1-C6-O6	8.52	125.01	119.90
72	BH	28	DG	N1-C6-O6	8.52	125.01	119.90
102	Bl	25	DG	N1-C6-O6	8.52	125.01	119.90
130	CM	33	DG	N1-C6-O6	8.52	125.01	119.90
137	CT	34	DG	N1-C6-O6	8.52	125.01	119.90
97	Bg	21	DG	N1-C6-O6	8.52	125.01	119.90
99	Bi	38	DG	N1-C6-O6	8.52	125.01	119.90
1	AA	297	DG	N1-C6-O6	8.52	125.01	119.90
1	AA	662	DG	N1-C6-O6	8.52	125.01	119.90
1	AA	1389	DG	C5-C6-O6	-8.52	123.49	128.60
1	AA	3732	DG	N1-C6-O6	8.52	125.01	119.90
50	Au	17	DG	N1-C6-O6	8.52	125.01	119.90
65	B9	27	DG	N1-C6-O6	8.52	125.01	119.90
121	CD	31	DG	N1-C6-O6	8.52	125.01	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
159	Cw	12	DG	N1-C6-O6	8.52	125.01	119.90
1	AA	302	DG	N1-C6-O6	8.52	125.01	119.90
1	AA	6496	DG	C5-C6-O6	-8.52	123.49	128.60
1	AA	7016	DG	N1-C6-O6	8.52	125.01	119.90
157	Cu	27	DG	N1-C6-O6	8.52	125.01	119.90
1	AA	10	DG	N1-C6-O6	8.52	125.01	119.90
1	AA	509	DG	N1-C6-O6	8.52	125.01	119.90
1	AA	529	DG	N1-C6-O6	8.52	125.01	119.90
1	AA	1255	DG	N1-C6-O6	8.52	125.01	119.90
1	AA	5087	DG	N1-C6-O6	8.52	125.01	119.90
1	AA	6685	DG	N1-C6-O6	8.52	125.01	119.90
40	Ag	29	DG	N1-C6-O6	8.52	125.01	119.90
45	Al	37	DG	C5-C6-O6	-8.52	123.49	128.60
88	BX	3	DG	N1-C6-O6	8.52	125.01	119.90
133	CP	25	DG	N1-C6-O6	8.52	125.01	119.90
154	Cr	33	DG	N1-C6-O6	8.51	125.01	119.90
1	AA	184	DG	N1-C6-O6	8.51	125.01	119.90
1	AA	2499	DA	O4'-C4'-C3'	-8.51	100.89	106.00
1	AA	4258	DG	N1-C6-O6	8.51	125.01	119.90
12	AC	20	DG	N1-C6-O6	8.51	125.01	119.90
103	Bm	10	DC	O4'-C4'-C3'	-8.51	100.89	106.00
140	CW	35	DG	P-O3'-C3'	8.51	129.92	119.70
159	Cw	50	DG	N1-C6-O6	8.51	125.01	119.90
1	AA	984	DG	N1-C6-O6	8.51	125.01	119.90
56	B0	9	DG	N1-C6-O6	8.51	125.01	119.90
106	Bp	46	DG	N1-C6-O6	8.51	125.01	119.90
131	CN	33	DG	N1-C6-O6	8.51	125.01	119.90
148	Cf	46	DG	N1-C6-O6	8.51	125.01	119.90
149	Cg	8	DG	N1-C6-O6	8.51	125.01	119.90
151	Ck	26	DG	N1-C6-O6	8.51	125.00	119.90
1	AA	269	DG	N1-C6-O6	8.51	125.00	119.90
1	AA	5429	DG	C5-C6-O6	-8.51	123.50	128.60
61	B5	18	DG	N1-C6-O6	8.51	125.00	119.90
33	AX	32	DG	C5-C6-O6	-8.51	123.50	128.60
96	Bf	12	DG	N1-C6-O6	8.51	125.00	119.90
129	CL	24	DG	N1-C6-O6	8.51	125.00	119.90
108	Br	10	DG	N1-C6-O6	8.50	125.00	119.90
1	AA	585	DG	N1-C6-O6	8.50	125.00	119.90
1	AA	3859	DG	N1-C6-O6	8.50	125.00	119.90
1	AA	3864	DG	N1-C6-O6	8.50	125.00	119.90
1	AA	3898	DG	N1-C6-O6	8.50	125.00	119.90
122	CE	20	DG	C5-C6-O6	-8.50	123.50	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	4107	DG	N1-C6-O6	8.50	125.00	119.90
58	B2	20	DG	N1-C6-O6	8.50	125.00	119.90
1	AA	2773	DG	N1-C6-O6	8.50	125.00	119.90
1	AA	7169	DG	N1-C6-O6	8.50	125.00	119.90
83	BS	22	DG	N1-C6-O6	8.50	125.00	119.90
97	Bg	34	DG	N1-C6-O6	8.50	125.00	119.90
155	Cs	24	DG	N1-C6-O6	8.50	125.00	119.90
1	AA	204	DG	N1-C6-O6	8.50	125.00	119.90
1	AA	303	DG	N1-C6-O6	8.50	125.00	119.90
1	AA	1510	DG	N1-C6-O6	8.50	125.00	119.90
1	AA	2316	DG	N1-C6-O6	8.50	125.00	119.90
16	AG	18	DG	N1-C6-O6	8.50	125.00	119.90
36	Ab	14	DG	N1-C6-O6	8.50	125.00	119.90
60	B4	14	DG	O4'-C1'-N9	8.50	113.95	108.00
88	BX	39	DG	N1-C6-O6	8.50	125.00	119.90
98	Bh	6	DG	N1-C6-O6	8.50	125.00	119.90
103	Bm	9	DG	N1-C6-O6	8.50	125.00	119.90
150	Ch	20	DC	O4'-C1'-N1	8.50	113.95	108.00
126	CI	35	DG	N1-C6-O6	8.50	125.00	119.90
1	AA	765	DG	N1-C6-O6	8.49	125.00	119.90
1	AA	4469	DG	N1-C6-O6	8.49	125.00	119.90
1	AA	4516	DG	C5-C6-O6	-8.49	123.50	128.60
1	AA	5725	DG	N1-C6-O6	8.49	125.00	119.90
1	AA	6235	DG	N1-C6-O6	8.49	125.00	119.90
69	BE	53	DG	N1-C6-O6	8.49	125.00	119.90
1	AA	502	DG	N1-C6-O6	8.49	125.00	119.90
1	AA	886	DG	N1-C6-O6	8.49	125.00	119.90
1	AA	6155	DG	N1-C6-O6	8.49	125.00	119.90
76	BL	45	DG	N1-C6-O6	8.49	125.00	119.90
1	AA	3372	DG	N1-C6-O6	8.49	124.99	119.90
1	AA	4068	DG	N1-C6-O6	8.49	125.00	119.90
1	AA	6765	DG	N1-C6-O6	8.49	124.99	119.90
86	BV	42	DG	N1-C6-O6	8.49	124.99	119.90
59	B3	27	DG	N1-C6-O6	8.49	124.99	119.90
114	C4	7	DG	N1-C6-O6	8.49	124.99	119.90
118	C8	38	DG	N1-C6-O6	8.49	124.99	119.90
136	CS	33	DG	N1-C6-O6	8.49	124.99	119.90
148	Cf	16	DG	N1-C6-O6	8.49	124.99	119.90
158	Cv	8	DG	N1-C6-O6	8.49	124.99	119.90
1	AA	429	DT	P-O3'-C3'	8.49	129.88	119.70
1	AA	1594	DG	N1-C6-O6	8.49	124.99	119.90
1	AA	2425	DG	N1-C6-O6	8.49	124.99	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1456	DG	C5-C6-O6	-8.49	123.51	128.60
1	AA	3942	DG	N1-C6-O6	8.49	124.99	119.90
1	AA	5920	DG	N1-C6-O6	8.49	124.99	119.90
1	AA	4011	DG	N1-C6-O6	8.49	124.99	119.90
1	AA	7031	DG	N1-C6-O6	8.49	124.99	119.90
44	Ak	37	DG	N1-C6-O6	8.49	124.99	119.90
13	AD	45	DG	N1-C6-O6	8.49	124.99	119.90
26	AQ	43	DG	N1-C6-O6	8.49	124.99	119.90
46	Am	43	DG	N1-C6-O6	8.49	124.99	119.90
114	C4	1	DG	N1-C6-O6	8.49	124.99	119.90
162	Cz	41	DG	N1-C6-O6	8.49	124.99	119.90
1	AA	472	DG	N1-C6-O6	8.48	124.99	119.90
1	AA	1282	DG	N1-C6-O6	8.48	124.99	119.90
1	AA	4081	DG	N1-C6-O6	8.48	124.99	119.90
7	A5	38	DC	O4'-C4'-C3'	-8.48	100.91	106.00
103	Bm	36	DC	P-O3'-C3'	8.48	129.88	119.70
108	Br	31	DG	N1-C6-O6	8.48	124.99	119.90
147	Ce	34	DG	N1-C6-O6	8.48	124.99	119.90
1	AA	1044	DT	P-O3'-C3'	8.48	129.88	119.70
153	Cq	20	DG	N1-C6-O6	8.48	124.99	119.90
1	AA	1177	DG	N1-C6-O6	8.48	124.99	119.90
1	AA	3484	DG	C5-C6-O6	-8.48	123.51	128.60
1	AA	3522	DG	N1-C6-O6	8.48	124.99	119.90
1	AA	4872	DG	N1-C6-O6	8.48	124.99	119.90
1	AA	5844	DG	N1-C6-O6	8.48	124.99	119.90
67	BC	36	DG	N1-C6-O6	8.48	124.99	119.90
74	BJ	42	DG	N1-C6-O6	8.48	124.99	119.90
79	BO	41	DG	N1-C6-O6	8.48	124.99	119.90
82	BR	40	DG	C5-C6-O6	-8.48	123.51	128.60
98	Bh	34	DG	C5-C6-O6	-8.48	123.51	128.60
149	Cg	12	DG	N1-C6-O6	8.48	124.99	119.90
1	AA	1668	DG	N1-C6-O6	8.48	124.99	119.90
1	AA	3867	DG	N1-C6-O6	8.48	124.99	119.90
1	AA	4944	DG	N1-C6-O6	8.48	124.99	119.90
1	AA	5299	DG	C5-C6-O6	-8.48	123.51	128.60
1	AA	7233	DG	N1-C6-O6	8.48	124.99	119.90
56	B0	10	DG	N1-C6-O6	8.48	124.99	119.90
57	B1	43	DG	N1-C6-O6	8.48	124.99	119.90
1	AA	4087	DG	N1-C6-O6	8.48	124.99	119.90
1	AA	6581	DG	N1-C6-O6	8.48	124.99	119.90
84	BT	47	DG	N1-C6-O6	8.48	124.99	119.90
87	BW	48	DG	N1-C6-O6	8.48	124.99	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
102	Bl	40	DG	N1-C6-O6	8.48	124.99	119.90
125	CH	6	DG	N1-C6-O6	8.48	124.99	119.90
132	CO	47	DG	N1-C6-O6	8.48	124.99	119.90
95	Be	32	DG	N1-C6-O6	8.48	124.98	119.90
98	Bh	14	DG	N1-C6-O6	8.48	124.98	119.90
1	AA	9	DG	N1-C6-O6	8.47	124.98	119.90
1	AA	818	DG	N1-C6-O6	8.47	124.98	119.90
1	AA	2786	DG	N1-C6-O6	8.47	124.98	119.90
1	AA	6712	DG	N1-C6-O6	8.47	124.98	119.90
155	Cs	36	DG	N1-C6-O6	8.47	124.98	119.90
1	AA	1974	DG	N1-C6-O6	8.47	124.98	119.90
1	AA	4057	DG	N1-C6-O6	8.47	124.98	119.90
1	AA	4857	DG	N1-C6-O6	8.47	124.98	119.90
4	A2	33	DC	O4'-C1'-N1	8.47	113.93	108.00
21	AL	41	DG	N1-C6-O6	8.47	124.98	119.90
56	B0	3	DG	N1-C6-O6	8.47	124.98	119.90
1	AA	2052	DG	N1-C6-O6	8.47	124.98	119.90
1	AA	3213	DG	N1-C6-O6	8.47	124.98	119.90
1	AA	6838	DG	N1-C6-O6	8.47	124.98	119.90
29	AT	37	DG	N1-C6-O6	8.47	124.98	119.90
1	AA	2153	DG	N1-C6-O6	8.47	124.98	119.90
1	AA	4961	DG	N1-C6-O6	8.47	124.98	119.90
1	AA	5282	DG	N1-C6-O6	8.47	124.98	119.90
1	AA	7039	DG	N1-C6-O6	8.47	124.98	119.90
93	Bc	42	DG	N1-C6-O6	8.47	124.98	119.90
107	Bq	48	DG	N1-C6-O6	8.47	124.98	119.90
154	Cr	8	DG	N1-C6-O6	8.47	124.98	119.90
1	AA	157	DG	N1-C6-O6	8.47	124.98	119.90
1	AA	2626	DG	N1-C6-O6	8.47	124.98	119.90
1	AA	5114	DG	N1-C6-O6	8.47	124.98	119.90
1	AA	3873	DG	N1-C6-O6	8.47	124.98	119.90
1	AA	6833	DG	N1-C6-O6	8.47	124.98	119.90
56	B0	13	DG	C5-C6-O6	-8.47	123.52	128.60
1	AA	4731	DG	C5-C6-O6	-8.47	123.52	128.60
1	AA	6613	DA	O4'-C4'-C3'	-8.47	100.92	106.00
4	A2	8	DG	N1-C6-O6	8.47	124.98	119.90
47	An	17	DG	C5-C6-O6	-8.46	123.52	128.60
62	B6	19	DG	N1-C6-O6	8.46	124.98	119.90
66	BB	44	DG	N1-C6-O6	8.46	124.98	119.90
111	C1	1	DG	C5-C6-O6	-8.46	123.52	128.60
25	AP	17	DG	N1-C6-O6	8.46	124.98	119.90
56	B0	39	DG	N1-C6-O6	8.46	124.98	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
89	BY	47	DG	N1-C6-O6	8.46	124.98	119.90
1	AA	3843	DG	N1-C6-O6	8.46	124.98	119.90
1	AA	3927	DG	C5-C6-O6	-8.46	123.52	128.60
1	AA	6868	DG	N1-C6-O6	8.46	124.98	119.90
149	Cg	36	DG	N1-C6-O6	8.46	124.98	119.90
1	AA	6754	DG	N1-C6-O6	8.46	124.98	119.90
1	AA	6806	DG	N1-C6-O6	8.46	124.98	119.90
11	AB	1	DG	N1-C6-O6	8.46	124.98	119.90
24	AO	30	DG	N1-C6-O6	8.46	124.98	119.90
40	Ag	11	DG	C5-C6-O6	-8.46	123.52	128.60
51	Av	37	DG	N1-C6-O6	8.46	124.98	119.90
156	Ct	3	DG	C5-C6-O6	-8.46	123.52	128.60
123	CF	26	DG	N1-C6-O6	8.46	124.98	119.90
1	AA	808	DG	N1-C6-O6	8.46	124.97	119.90
1	AA	871	DG	N1-C6-O6	8.46	124.98	119.90
1	AA	1183	DG	N1-C6-O6	8.46	124.98	119.90
1	AA	4920	DG	N1-C6-O6	8.46	124.97	119.90
1	AA	5939	DG	N1-C6-O6	8.46	124.97	119.90
1	AA	6105	DT	O4'-C1'-C2'	-8.46	99.13	105.90
1	AA	6903	DG	N1-C6-O6	8.46	124.98	119.90
62	B6	37	DG	N1-C6-O6	8.46	124.97	119.90
85	BU	47	DG	N1-C6-O6	8.46	124.97	119.90
61	B5	40	DG	N1-C6-O6	8.46	124.97	119.90
1	AA	6519	DG	N1-C6-O6	8.46	124.97	119.90
36	Ab	43	DT	O4'-C1'-C2'	-8.46	99.14	105.90
96	Bf	21	DG	N1-C6-O6	8.46	124.97	119.90
120	CC	14	DG	N1-C6-O6	8.46	124.97	119.90
133	CP	51	DG	N1-C6-O6	8.46	124.97	119.90
25	AP	26	DG	N1-C6-O6	8.45	124.97	119.90
116	C6	42	DC	O4'-C4'-C3'	-8.45	100.93	106.00
1	AA	1986	DG	N1-C6-O6	8.45	124.97	119.90
1	AA	3795	DG	N1-C6-O6	8.45	124.97	119.90
1	AA	7159	DG	N1-C6-O6	8.45	124.97	119.90
74	BJ	47	DG	N1-C6-O6	8.45	124.97	119.90
146	Cd	39	DG	N1-C6-O6	8.45	124.97	119.90
86	BV	44	DG	N1-C6-O6	8.45	124.97	119.90
158	Cv	16	DG	N1-C6-O6	8.45	124.97	119.90
158	Cv	27	DG	N1-C6-O6	8.45	124.97	119.90
1	AA	1129	DG	N1-C6-O6	8.45	124.97	119.90
1	AA	6324	DG	N1-C6-O6	8.45	124.97	119.90
21	AL	35	DG	N1-C6-O6	8.45	124.97	119.90
68	BD	2	DG	N1-C6-O6	8.45	124.97	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
140	CW	36	DG	N1-C6-O6	8.45	124.97	119.90
1	AA	2903	DG	C5-C6-O6	-8.45	123.53	128.60
29	AT	5	DG	N1-C6-O6	8.45	124.97	119.90
39	Af	14	DG	O4'-C4'-C3'	-8.45	100.93	106.00
128	CK	29	DG	N1-C6-O6	8.45	124.97	119.90
1	AA	496	DG	N1-C6-O6	8.45	124.97	119.90
1	AA	2341	DG	N1-C6-O6	8.45	124.97	119.90
1	AA	2631	DG	N1-C6-O6	8.45	124.97	119.90
1	AA	3811	DG	N1-C6-O6	8.45	124.97	119.90
1	AA	4768	DG	N1-C6-O6	8.45	124.97	119.90
12	AC	25	DG	N1-C6-O6	8.45	124.97	119.90
42	Ai	46	DG	N1-C6-O6	8.45	124.97	119.90
1	AA	596	DG	N1-C6-O6	8.44	124.97	119.90
1	AA	2329	DG	N1-C6-O6	8.44	124.97	119.90
1	AA	3581	DG	N1-C6-O6	8.44	124.97	119.90
1	AA	6163	DG	N1-C6-O6	8.44	124.97	119.90
1	AA	6757	DG	N1-C6-O6	8.45	124.97	119.90
6	A4	22	DG	N1-C6-O6	8.45	124.97	119.90
124	CG	30	DG	N1-C6-O6	8.45	124.97	119.90
40	Ag	33	DG	N1-C6-O6	8.44	124.97	119.90
60	B4	31	DG	N1-C6-O6	8.45	124.97	119.90
76	BL	12	DG	N1-C6-O6	8.44	124.97	119.90
101	Bk	33	DG	N1-C6-O6	8.45	124.97	119.90
1	AA	4667	DG	N1-C6-O6	8.44	124.97	119.90
35	AZ	51	DG	N1-C6-O6	8.44	124.97	119.90
141	CX	46	DG	P-O3'-C3'	8.44	129.83	119.70
1	AA	654	DG	N1-C6-O6	8.44	124.97	119.90
1	AA	782	DG	N1-C6-O6	8.44	124.97	119.90
1	AA	209	DG	N1-C6-O6	8.44	124.96	119.90
1	AA	358	DG	N1-C6-O6	8.44	124.96	119.90
29	AT	3	DG	N1-C6-O6	8.44	124.96	119.90
56	B0	40	DG	N1-C6-O6	8.44	124.96	119.90
1	AA	1841	DG	N1-C6-O6	8.44	124.96	119.90
88	BX	32	DG	N1-C6-O6	8.44	124.96	119.90
1	AA	320	DG	N1-C6-O6	8.44	124.96	119.90
1	AA	6106	DG	N1-C6-O6	8.44	124.96	119.90
1	AA	7070	DG	N1-C6-O6	8.44	124.96	119.90
147	Ce	7	DG	N1-C6-O6	8.44	124.96	119.90
1	AA	3216	DG	N1-C6-O6	8.44	124.96	119.90
1	AA	3913	DG	N1-C6-O6	8.44	124.96	119.90
1	AA	4032	DG	C5-C6-O6	-8.44	123.54	128.60
25	AP	3	DG	N1-C6-O6	8.44	124.96	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	AR	29	DG	N1-C6-O6	8.44	124.96	119.90
49	As	17	DG	C5-C6-O6	-8.44	123.54	128.60
133	CP	33	DG	N1-C6-O6	8.44	124.96	119.90
63	B7	21	DG	N1-C6-O6	8.44	124.96	119.90
115	C5	31	DG	N1-C6-O6	8.44	124.96	119.90
1	AA	1306	DG	C5-C6-O6	-8.43	123.54	128.60
1	AA	1602	DG	N1-C6-O6	8.43	124.96	119.90
1	AA	5537	DG	N1-C6-O6	8.43	124.96	119.90
1	AA	5861	DG	N1-C6-O6	8.43	124.96	119.90
3	A1	34	DG	N1-C6-O6	8.43	124.96	119.90
33	AX	47	DG	N1-C6-O6	8.43	124.96	119.90
1	AA	6259	DG	N1-C6-O6	8.43	124.96	119.90
1	AA	6362	DG	N1-C6-O6	8.43	124.96	119.90
13	AD	1	DG	N1-C6-O6	8.43	124.96	119.90
17	AH	11	DG	N1-C6-O6	8.43	124.96	119.90
52	Aw	15	DA	O4'-C1'-N9	8.43	113.90	108.00
74	BJ	34	DT	O4'-C4'-C3'	-8.43	100.94	106.00
153	Cq	27	DG	N1-C6-O6	8.43	124.96	119.90
1	AA	819	DG	C5-C6-O6	-8.43	123.54	128.60
1	AA	4282	DG	N1-C6-O6	8.43	124.96	119.90
1	AA	2263	DG	N1-C6-O6	8.43	124.96	119.90
1	AA	4281	DG	C5-C6-O6	-8.43	123.54	128.60
125	CH	4	DG	N1-C6-O6	8.43	124.96	119.90
1	AA	2818	DG	N1-C6-O6	8.43	124.96	119.90
1	AA	7082	DG	N1-C6-O6	8.43	124.96	119.90
1	AA	3186	DG	N1-C6-O6	8.43	124.96	119.90
1	AA	4921	DG	C5-C6-O6	-8.43	123.54	128.60
99	Bi	30	DC	O4'-C4'-C3'	-8.43	100.94	106.00
1	AA	4484	DG	N1-C6-O6	8.43	124.95	119.90
1	AA	6250	DG	N1-C6-O6	8.43	124.96	119.90
1	AA	6809	DG	N1-C6-O6	8.43	124.96	119.90
58	B2	14	DG	N1-C6-O6	8.43	124.96	119.90
88	BX	19	DG	N1-C6-O6	8.43	124.96	119.90
121	CD	18	DG	C5-C6-O6	-8.43	123.54	128.60
28	AS	14	DG	O4'-C1'-N9	8.43	113.90	108.00
95	Be	17	DG	N1-C6-O6	8.43	124.95	119.90
1	AA	1116	DG	N1-C6-O6	8.42	124.95	119.90
1	AA	2345	DA	P-O3'-C3'	8.42	129.81	119.70
1	AA	5676	DG	N1-C6-O6	8.42	124.95	119.90
74	BJ	44	DG	N1-C6-O6	8.42	124.95	119.90
147	Ce	30	DG	N1-C6-O6	8.42	124.95	119.90
1	AA	2149	DG	N1-C6-O6	8.42	124.95	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	4694	DG	N1-C6-O6	8.42	124.95	119.90
1	AA	5288	DG	C5-C6-O6	-8.42	123.55	128.60
20	AK	60	DG	N1-C6-O6	8.42	124.95	119.90
77	BM	22	DG	N1-C6-O6	8.42	124.95	119.90
1	AA	188	DG	N1-C6-O6	8.42	124.95	119.90
1	AA	3095	DG	C5-C6-O6	-8.42	123.55	128.60
1	AA	3440	DG	N1-C6-O6	8.42	124.95	119.90
96	Bf	22	DG	N1-C6-O6	8.42	124.95	119.90
1	AA	2805	DG	N1-C6-O6	8.42	124.95	119.90
16	AG	3	DG	N1-C6-O6	8.42	124.95	119.90
53	Ax	32	DG	N1-C6-O6	8.42	124.95	119.90
125	CH	43	DG	N1-C6-O6	8.42	124.95	119.90
56	B0	1	DG	N1-C6-O6	8.42	124.95	119.90
98	Bh	15	DG	N1-C6-O6	8.42	124.95	119.90
125	CH	11	DG	N1-C6-O6	8.42	124.95	119.90
1	AA	2419	DG	N1-C6-O6	8.42	124.95	119.90
1	AA	3709	DG	N1-C6-O6	8.42	124.95	119.90
1	AA	4160	DG	N1-C6-O6	8.42	124.95	119.90
4	A2	47	DG	N1-C6-O6	8.42	124.95	119.90
101	Bk	63	DG	N1-C6-O6	8.42	124.95	119.90
156	Ct	1	DG	N1-C6-O6	8.42	124.95	119.90
1	AA	70	DG	N1-C6-O6	8.41	124.95	119.90
71	BG	2	DA	O4'-C4'-C3'	-8.41	100.95	106.00
1	AA	957	DG	N1-C6-O6	8.41	124.95	119.90
1	AA	2360	DG	N1-C6-O6	8.41	124.95	119.90
1	AA	2528	DG	N1-C6-O6	8.41	124.95	119.90
1	AA	2618	DG	N1-C6-O6	8.41	124.95	119.90
1	AA	2569	DG	N1-C6-O6	8.41	124.95	119.90
1	AA	5161	DG	N1-C6-O6	8.41	124.95	119.90
5	A3	22	DC	O4'-C1'-C2'	-8.41	99.17	105.90
39	Af	14	DG	N1-C6-O6	8.41	124.95	119.90
1	AA	3971	DC	O4'-C4'-C3'	-8.41	100.95	106.00
1	AA	3996	DG	N1-C6-O6	8.41	124.95	119.90
1	AA	4104	DG	N1-C6-O6	8.41	124.95	119.90
1	AA	6505	DG	N1-C6-O6	8.41	124.95	119.90
1	AA	6780	DG	N1-C6-O6	8.41	124.95	119.90
91	Ba	30	DG	N1-C6-O6	8.41	124.95	119.90
105	Bo	63	DT	P-O3'-C3'	8.41	129.79	119.70
107	Bq	2	DG	N1-C6-O6	8.41	124.95	119.90
159	Cw	15	DG	N1-C6-O6	8.41	124.95	119.90
1	AA	3044	DG	N1-C6-O6	8.41	124.95	119.90
1	AA	2013	DG	N1-C6-O6	8.41	124.94	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2975	DG	N1-C6-O6	8.41	124.95	119.90
1	AA	5965	DG	N1-C6-O6	8.41	124.95	119.90
1	AA	6572	DG	N1-C6-O6	8.41	124.95	119.90
83	BS	35	DG	C5-C6-O6	-8.41	123.55	128.60
1	AA	3497	DC	O4'-C1'-C2'	-8.41	99.17	105.90
1	AA	4712	DG	N1-C6-O6	8.41	124.94	119.90
1	AA	6721	DG	N1-C6-O6	8.41	124.94	119.90
15	AF	30	DG	N1-C6-O6	8.41	124.95	119.90
21	AL	47	DG	N1-C6-O6	8.41	124.95	119.90
141	CX	34	DG	C5-C6-O6	-8.41	123.55	128.60
1	AA	1273	DG	N1-C6-O6	8.41	124.94	119.90
1	AA	1532	DG	N1-C6-O6	8.41	124.94	119.90
1	AA	2694	DG	N1-C6-O6	8.41	124.94	119.90
1	AA	4699	DG	N1-C6-O6	8.41	124.94	119.90
1	AA	5512	DG	N1-C6-O6	8.41	124.94	119.90
50	Au	7	DG	P-O3'-C3'	8.41	129.79	119.70
55	Az	36	DG	N1-C6-O6	8.41	124.94	119.90
80	BP	45	DG	N1-C6-O6	8.41	124.94	119.90
117	C7	13	DG	N1-C6-O6	8.41	124.94	119.90
1	AA	794	DG	N1-C6-O6	8.40	124.94	119.90
31	AV	6	DG	N1-C6-O6	8.40	124.94	119.90
1	AA	3993	DG	N1-C6-O6	8.40	124.94	119.90
1	AA	7097	DG	N1-C6-O6	8.40	124.94	119.90
119	CB	54	DG	C5-C6-O6	-8.40	123.56	128.60
49	As	42	DG	O4'-C1'-C2'	-8.40	99.18	105.90
74	BJ	46	DG	N1-C6-O6	8.40	124.94	119.90
102	Bl	24	DG	N1-C6-O6	8.40	124.94	119.90
103	Bm	11	DG	N1-C6-O6	8.40	124.94	119.90
1	AA	1540	DG	N1-C6-O6	8.40	124.94	119.90
1	AA	3271	DG	N1-C6-O6	8.40	124.94	119.90
1	AA	3066	DG	C5-C6-O6	-8.40	123.56	128.60
1	AA	3927	DG	P-O3'-C3'	8.40	129.78	119.70
9	A7	13	DG	N1-C6-O6	8.40	124.94	119.90
61	B5	8	DG	N1-C6-O6	8.40	124.94	119.90
141	CX	1	DG	N1-C6-O6	8.40	124.94	119.90
1	AA	324	DG	N1-C6-O6	8.40	124.94	119.90
1	AA	4125	DG	N1-C6-O6	8.40	124.94	119.90
1	AA	6674	DG	N1-C6-O6	8.40	124.94	119.90
1	AA	2041	DG	N1-C6-O6	8.39	124.94	119.90
1	AA	3817	DG	N1-C6-O6	8.39	124.94	119.90
1	AA	4848	DG	N1-C6-O6	8.39	124.94	119.90
108	Br	34	DG	N1-C6-O6	8.39	124.94	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6	DG	N1-C6-O6	8.39	124.94	119.90
1	AA	384	DG	N1-C6-O6	8.39	124.94	119.90
1	AA	3150	DG	N1-C6-O6	8.39	124.94	119.90
1	AA	599	DG	N1-C6-O6	8.39	124.93	119.90
1	AA	3888	DG	N1-C6-O6	8.39	124.94	119.90
10	A8	46	DG	N1-C6-O6	8.39	124.93	119.90
65	B9	22	DC	P-O3'-C3'	8.39	129.77	119.70
95	Be	42	DG	N1-C6-O6	8.39	124.93	119.90
107	Bq	5	DG	O4'-C1'-N9	8.39	113.87	108.00
140	CW	1	DG	N1-C6-O6	8.39	124.93	119.90
162	Cz	20	DG	N1-C6-O6	8.39	124.93	119.90
1	AA	2508	DG	N1-C6-O6	8.39	124.93	119.90
1	AA	3881	DG	C5-C6-O6	-8.39	123.57	128.60
1	AA	7043	DG	N1-C6-O6	8.39	124.93	119.90
1	AA	5546	DG	N1-C6-O6	8.39	124.93	119.90
1	AA	6709	DG	N1-C6-O6	8.39	124.93	119.90
43	Aj	21	DG	N1-C6-O6	8.39	124.93	119.90
51	Av	1	DG	N1-C6-O6	8.39	124.93	119.90
59	B3	25	DG	N1-C6-O6	8.39	124.93	119.90
1	AA	53	DG	N1-C6-O6	8.38	124.93	119.90
1	AA	205	DG	N1-C6-O6	8.38	124.93	119.90
1	AA	563	DG	N1-C6-O6	8.38	124.93	119.90
149	Cg	32	DG	N1-C6-O6	8.39	124.93	119.90
153	Cq	19	DG	N1-C6-O6	8.39	124.93	119.90
1	AA	6361	DG	N1-C6-O6	8.38	124.93	119.90
3	A1	42	DG	N1-C6-O6	8.38	124.93	119.90
155	Cs	1	DG	C5-C6-O6	-8.38	123.57	128.60
1	AA	1267	DG	N1-C6-O6	8.38	124.93	119.90
96	Bf	23	DG	N1-C6-O6	8.38	124.93	119.90
1	AA	1415	DG	N1-C6-O6	8.38	124.93	119.90
1	AA	2315	DG	N1-C6-O6	8.38	124.93	119.90
3	A1	20	DC	P-O3'-C3'	8.38	129.76	119.70
46	Am	12	DG	N1-C6-O6	8.38	124.93	119.90
50	Au	4	DG	N1-C6-O6	8.38	124.93	119.90
87	BW	29	DG	N1-C6-O6	8.38	124.93	119.90
43	Aj	4	DG	N1-C6-O6	8.38	124.93	119.90
44	Ak	38	DG	N1-C6-O6	8.38	124.93	119.90
68	BD	17	DG	N1-C6-O6	8.38	124.93	119.90
88	BX	21	DG	N1-C6-O6	8.38	124.93	119.90
1	AA	559	DG	N1-C6-O6	8.38	124.93	119.90
1	AA	1354	DG	N1-C6-O6	8.38	124.93	119.90
1	AA	3441	DG	N1-C6-O6	8.38	124.93	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
88	BX	27	DG	N1-C6-O6	8.38	124.93	119.90
1	AA	2707	DG	N1-C6-O6	8.38	124.93	119.90
1	AA	2926	DG	N1-C6-O6	8.38	124.93	119.90
1	AA	3317	DG	C5-C6-O6	-8.38	123.57	128.60
1	AA	6373	DG	N1-C6-O6	8.38	124.93	119.90
60	B4	14	DG	N1-C6-O6	8.38	124.93	119.90
44	Ak	44	DG	N1-C6-O6	8.38	124.93	119.90
96	Bf	33	DG	N1-C6-O6	8.38	124.93	119.90
128	CK	38	DG	N1-C6-O6	8.38	124.93	119.90
3	A1	37	DG	N1-C6-O6	8.38	124.93	119.90
27	AR	59	DG	N1-C6-O6	8.38	124.93	119.90
1	AA	132	DG	N1-C6-O6	8.37	124.92	119.90
1	AA	148	DA	O4'-C4'-C3'	-8.37	100.98	106.00
56	B0	20	DG	N1-C6-O6	8.37	124.92	119.90
133	CP	34	DC	O4'-C4'-C3'	-8.38	100.97	106.00
1	AA	4795	DG	N1-C6-O6	8.37	124.92	119.90
1	AA	6889	DG	N1-C6-O6	8.37	124.92	119.90
69	BE	62	DG	N1-C6-O6	8.37	124.92	119.90
108	Br	30	DG	N1-C6-O6	8.37	124.92	119.90
1	AA	6972	DG	N1-C6-O6	8.37	124.92	119.90
1	AA	4437	DG	N1-C6-O6	8.37	124.92	119.90
1	AA	6409	DG	C5-C6-O6	-8.37	123.58	128.60
37	Ac	33	DA	P-O3'-C3'	8.37	129.74	119.70
60	B4	48	DG	N1-C6-O6	8.37	124.92	119.90
71	BG	15	DG	N1-C6-O6	8.37	124.92	119.90
80	BP	13	DG	N1-C6-O6	8.37	124.92	119.90
144	Cb	4	DG	C5-C6-O6	-8.37	123.58	128.60
74	BJ	22	DG	N1-C6-O6	8.37	124.92	119.90
44	Ak	3	DG	C5-C6-O6	-8.36	123.58	128.60
44	Ak	18	DG	N1-C6-O6	8.37	124.92	119.90
75	BK	31	DG	N1-C6-O6	8.37	124.92	119.90
88	BX	6	DG	N1-C6-O6	8.36	124.92	119.90
136	CS	31	DG	N1-C6-O6	8.37	124.92	119.90
1	AA	761	DG	N1-C6-O6	8.36	124.92	119.90
1	AA	1216	DG	N1-C6-O6	8.36	124.92	119.90
99	Bi	44	DG	N1-C6-O6	8.36	124.92	119.90
15	AF	38	DG	N1-C6-O6	8.36	124.92	119.90
17	AH	10	DG	N1-C6-O6	8.36	124.92	119.90
124	CG	10	DG	N1-C6-O6	8.36	124.92	119.90
160	Cx	11	DG	C5-C6-O6	-8.36	123.58	128.60
1	AA	340	DG	N1-C6-O6	8.36	124.92	119.90
92	Bb	7	DG	N1-C6-O6	8.36	124.92	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
95	Be	20	DG	N1-C6-O6	8.36	124.92	119.90
1	AA	6664	DA	P-O3'-C3'	8.36	129.73	119.70
104	Bn	21	DG	N1-C6-O6	8.36	124.92	119.90
155	Cs	27	DG	N1-C6-O6	8.36	124.92	119.90
159	Cw	37	DG	N1-C6-O6	8.36	124.92	119.90
1	AA	443	DG	N1-C6-O6	8.36	124.91	119.90
161	Cy	32	DC	P-O3'-C3'	8.36	129.73	119.70
1	AA	518	DG	N1-C6-O6	8.36	124.91	119.90
107	Bq	20	DG	N1-C6-O6	8.36	124.91	119.90
22	AM	17	DG	N1-C6-O6	8.35	124.91	119.90
55	Az	44	DG	N1-C6-O6	8.35	124.91	119.90
1	AA	2872	DG	N1-C6-O6	8.35	124.91	119.90
1	AA	3367	DG	N1-C6-O6	8.35	124.91	119.90
1	AA	3886	DG	N1-C6-O6	8.35	124.91	119.90
1	AA	5422	DG	C5-C6-O6	-8.35	123.59	128.60
1	AA	6733	DG	N1-C6-O6	8.35	124.91	119.90
35	AZ	3	DG	N1-C6-O6	8.35	124.91	119.90
115	C5	4	DG	N1-C6-O6	8.35	124.91	119.90
37	Ac	52	DG	N1-C6-O6	8.35	124.91	119.90
71	BG	6	DG	N1-C6-O6	8.35	124.91	119.90
1	AA	3703	DG	N1-C6-O6	8.35	124.91	119.90
1	AA	527	DG	N1-C6-O6	8.35	124.91	119.90
1	AA	760	DG	N1-C6-O6	8.35	124.91	119.90
58	B2	33	DA	P-O3'-C3'	8.35	129.72	119.70
1	AA	1546	DA	P-O3'-C3'	8.35	129.72	119.70
1	AA	3083	DG	N1-C6-O6	8.35	124.91	119.90
1	AA	5538	DG	N1-C6-O6	8.35	124.91	119.90
102	Bl	5	DG	N1-C6-O6	8.35	124.91	119.90
10	A8	8	DG	C5-C6-O6	-8.35	123.59	128.60
83	BS	30	DG	N1-C6-O6	8.35	124.91	119.90
90	BZ	11	DG	N1-C6-O6	8.35	124.91	119.90
123	CF	4	DG	C5-C6-O6	-8.35	123.59	128.60
101	Bk	8	DG	N1-C6-O6	8.35	124.91	119.90
145	Cc	62	DG	N1-C6-O6	8.35	124.91	119.90
1	AA	1714	DG	N1-C6-O6	8.34	124.91	119.90
1	AA	1837	DG	N1-C6-O6	8.34	124.91	119.90
1	AA	5156	DG	C5-C6-O6	-8.34	123.59	128.60
1	AA	788	DG	N1-C6-O6	8.34	124.91	119.90
1	AA	1849	DG	N1-C6-O6	8.34	124.91	119.90
1	AA	3823	DG	N1-C6-O6	8.34	124.91	119.90
1	AA	5244	DG	C5-C6-O6	-8.34	123.59	128.60
1	AA	5639	DG	N1-C6-O6	8.34	124.91	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6185	DT	P-O3'-C3'	8.34	129.71	119.70
138	CU	11	DG	N1-C6-O6	8.34	124.91	119.90
141	CX	28	DG	N1-C6-O6	8.34	124.91	119.90
1	AA	4203	DG	N1-C6-O6	8.34	124.91	119.90
1	AA	2005	DG	N1-C6-O6	8.34	124.90	119.90
1	AA	2206	DG	N1-C6-O6	8.34	124.90	119.90
1	AA	5956	DG	N1-C6-O6	8.34	124.90	119.90
1	AA	6600	DG	N1-C6-O6	8.34	124.91	119.90
1	AA	7019	DG	N1-C6-O6	8.34	124.91	119.90
1	AA	7162	DC	O4'-C1'-C2'	-8.34	99.23	105.90
12	AC	39	DG	N1-C6-O6	8.34	124.90	119.90
116	C6	27	DG	C5-C6-O6	-8.34	123.59	128.60
71	BG	25	DG	N1-C6-O6	8.34	124.90	119.90
152	Cp	11	DG	N1-C6-O6	8.34	124.90	119.90
1	AA	267	DG	N1-C6-O6	8.34	124.90	119.90
1	AA	3294	DG	C5-C6-O6	-8.34	123.60	128.60
1	AA	3805	DG	N1-C6-O6	8.34	124.90	119.90
1	AA	3232	DG	N1-C6-O6	8.34	124.90	119.90
1	AA	3889	DG	N1-C6-O6	8.34	124.90	119.90
19	AJ	16	DA	O4'-C4'-C3'	-8.34	101.00	106.00
45	Al	18	DA	O4'-C4'-C3'	-8.34	101.00	106.00
51	Av	41	DG	N1-C6-O6	8.34	124.90	119.90
1	AA	3681	DG	N1-C6-O6	8.34	124.90	119.90
1	AA	5483	DG	C5-C6-O6	-8.34	123.60	128.60
1	AA	6066	DG	N1-C6-O6	8.34	124.90	119.90
2	A0	30	DG	C5-C6-O6	-8.34	123.60	128.60
16	AG	4	DG	N1-C6-O6	8.34	124.90	119.90
24	AO	47	DG	N1-C6-O6	8.34	124.90	119.90
51	Av	4	DG	N1-C6-O6	8.34	124.90	119.90
55	Az	31	DG	N1-C6-O6	8.34	124.90	119.90
120	CC	21	DG	N1-C6-O6	8.34	124.90	119.90
62	B6	18	DG	N1-C6-O6	8.34	124.90	119.90
104	Bn	15	DG	N1-C6-O6	8.34	124.90	119.90
129	CL	31	DG	N1-C6-O6	8.34	124.90	119.90
17	AH	44	DG	N1-C6-O6	8.33	124.90	119.90
1	AA	438	DG	N1-C6-O6	8.33	124.90	119.90
1	AA	4290	DG	N1-C6-O6	8.33	124.90	119.90
1	AA	6430	DG	C5-C6-O6	-8.33	123.60	128.60
1	AA	3257	DG	N1-C6-O6	8.33	124.90	119.90
1	AA	4358	DG	N1-C6-O6	8.33	124.90	119.90
1	AA	5535	DG	N1-C6-O6	8.33	124.90	119.90
103	Bm	6	DG	N1-C6-O6	8.33	124.90	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
131	CN	15	DG	N1-C6-O6	8.33	124.90	119.90
1	AA	1884	DG	N1-C6-O6	8.33	124.90	119.90
1	AA	2644	DG	C5-C6-O6	-8.33	123.60	128.60
1	AA	6991	DG	N1-C6-O6	8.33	124.90	119.90
1	AA	323	DG	N1-C6-O6	8.33	124.89	119.90
1	AA	756	DG	N1-C6-O6	8.33	124.89	119.90
46	Am	15	DG	C5-C6-O6	-8.33	123.60	128.60
1	AA	2429	DG	N1-C6-O6	8.32	124.89	119.90
25	AP	8	DG	N1-C6-O6	8.32	124.89	119.90
55	Az	30	DG	N1-C6-O6	8.32	124.89	119.90
30	AU	35	DC	O4'-C1'-N1	8.32	113.83	108.00
120	CC	29	DT	O4'-C1'-C2'	-8.32	99.24	105.90
1	AA	50	DG	N1-C6-O6	8.32	124.89	119.90
1	AA	811	DG	N1-C6-O6	8.32	124.89	119.90
1	AA	2869	DG	N1-C6-O6	8.32	124.89	119.90
1	AA	4850	DG	N1-C6-O6	8.32	124.89	119.90
1	AA	5521	DC	O4'-C1'-N1	8.32	113.83	108.00
6	A4	7	DG	N1-C6-O6	8.32	124.89	119.90
48	Ao	26	DG	N1-C6-O6	8.32	124.89	119.90
1	AA	143	DC	O4'-C4'-C3'	-8.32	101.01	106.00
1	AA	1278	DG	N1-C6-O6	8.32	124.89	119.90
63	B7	28	DA	P-O3'-C3'	8.32	129.69	119.70
1	AA	4852	DG	N1-C6-O6	8.32	124.89	119.90
1	AA	6596	DG	N1-C6-O6	8.32	124.89	119.90
46	Am	14	DA	O4'-C4'-C3'	-8.32	101.01	106.00
119	CB	19	DG	N1-C6-O6	8.32	124.89	119.90
121	CD	9	DG	N1-C6-O6	8.32	124.89	119.90
131	CN	8	DG	N1-C6-O6	8.32	124.89	119.90
131	CN	12	DG	N1-C6-O6	8.32	124.89	119.90
129	CL	14	DA	O4'-C4'-C3'	-8.32	101.01	106.00
149	Cg	37	DG	N1-C6-O6	8.32	124.89	119.90
57	B1	30	DG	N1-C6-O6	8.32	124.89	119.90
117	C7	38	DG	N1-C6-O6	8.32	124.89	119.90
1	AA	3357	DG	N1-C6-O6	8.32	124.89	119.90
1	AA	3647	DG	N1-C6-O6	8.32	124.89	119.90
82	BR	42	DG	N1-C6-O6	8.32	124.89	119.90
101	Bk	34	DG	N1-C6-O6	8.32	124.89	119.90
1	AA	4361	DG	C5-C6-O6	-8.31	123.61	128.60
41	Ah	22	DG	N1-C6-O6	8.31	124.89	119.90
85	BU	35	DG	N1-C6-O6	8.31	124.89	119.90
96	Bf	35	DG	N1-C6-O6	8.31	124.89	119.90
124	CG	41	DG	N1-C6-O6	8.31	124.89	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
152	Cp	45	DG	N1-C6-O6	8.31	124.89	119.90
1	AA	27	DG	N1-C6-O6	8.31	124.89	119.90
1	AA	2116	DG	N1-C6-O6	8.31	124.89	119.90
1	AA	4956	DG	N1-C6-O6	8.31	124.89	119.90
1	AA	5819	DC	O4'-C4'-C3'	-8.31	101.01	106.00
1	AA	3342	DG	N1-C6-O6	8.31	124.89	119.90
1	AA	6031	DG	C5-C6-O6	-8.31	123.61	128.60
26	AQ	40	DG	C5-C6-O6	-8.31	123.61	128.60
61	B5	30	DG	N1-C6-O6	8.31	124.89	119.90
135	CR	8	DG	N1-C6-O6	8.31	124.89	119.90
1	AA	2875	DG	C5-C6-O6	-8.31	123.61	128.60
1	AA	3584	DG	N1-C6-O6	8.31	124.89	119.90
1	AA	3852	DG	N1-C6-O6	8.31	124.89	119.90
1	AA	3855	DG	C5-C6-O6	-8.31	123.61	128.60
134	CQ	19	DG	N1-C6-O6	8.31	124.89	119.90
1	AA	6686	DG	N1-C6-O6	8.31	124.88	119.90
1	AA	7061	DG	N1-C6-O6	8.31	124.88	119.90
124	CG	29	DG	N1-C6-O6	8.31	124.88	119.90
1	AA	356	DG	N1-C6-O6	8.30	124.88	119.90
1	AA	426	DG	C5-C6-O6	-8.30	123.62	128.60
1	AA	545	DG	N1-C6-O6	8.30	124.88	119.90
1	AA	1266	DT	O4'-C1'-C2'	-8.30	99.26	105.90
1	AA	2938	DG	N1-C6-O6	8.30	124.88	119.90
1	AA	3582	DG	N1-C6-O6	8.30	124.88	119.90
1	AA	5697	DG	N1-C6-O6	8.30	124.88	119.90
1	AA	6268	DG	N1-C6-O6	8.30	124.88	119.90
1	AA	7026	DG	N1-C6-O6	8.30	124.88	119.90
1	AA	6896	DG	N1-C6-O6	8.30	124.88	119.90
43	Aj	54	DT	O4'-C1'-C2'	-8.30	99.26	105.90
82	BR	41	DG	N1-C6-O6	8.30	124.88	119.90
102	Bl	3	DG	N1-C6-O6	8.30	124.88	119.90
119	CB	1	DG	N1-C6-O6	8.30	124.88	119.90
1	AA	537	DG	N1-C6-O6	8.30	124.88	119.90
1	AA	3954	DG	N1-C6-O6	8.30	124.88	119.90
1	AA	4914	DG	N1-C6-O6	8.30	124.88	119.90
111	C1	7	DG	N1-C6-O6	8.30	124.88	119.90
1	AA	4976	DG	N1-C6-O6	8.30	124.88	119.90
1	AA	5550	DG	N1-C6-O6	8.30	124.88	119.90
1	AA	6859	DG	N1-C6-O6	8.30	124.88	119.90
58	B2	11	DG	C5-C6-O6	-8.30	123.62	128.60
69	BE	30	DG	N1-C6-O6	8.30	124.88	119.90
71	BG	32	DG	N1-C6-O6	8.30	124.88	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
89	BY	10	DG	N1-C6-O6	8.30	124.88	119.90
92	Bb	6	DG	N1-C6-O6	8.30	124.88	119.90
147	Ce	31	DG	N1-C6-O6	8.30	124.88	119.90
1	AA	2588	DG	N1-C6-O6	8.30	124.88	119.90
1	AA	3358	DG	C5-C6-O6	-8.30	123.62	128.60
1	AA	3365	DG	N1-C6-O6	8.30	124.88	119.90
1	AA	4841	DG	N1-C6-O6	8.30	124.88	119.90
1	AA	5067	DG	N1-C6-O6	8.30	124.88	119.90
1	AA	5672	DG	N1-C6-O6	8.30	124.88	119.90
10	A8	48	DG	N1-C6-O6	8.30	124.88	119.90
22	AM	34	DG	C5-C6-O6	-8.30	123.62	128.60
40	Ag	32	DG	N1-C6-O6	8.30	124.88	119.90
103	Bm	26	DT	O4'-C1'-C2'	-8.30	99.26	105.90
145	Cc	51	DG	C5-C6-O6	-8.30	123.62	128.60
1	AA	648	DG	N1-C6-O6	8.29	124.88	119.90
1	AA	778	DG	N1-C6-O6	8.30	124.88	119.90
1	AA	3253	DG	P-O3'-C3'	8.30	129.66	119.70
1	AA	3975	DG	N1-C6-O6	8.29	124.88	119.90
85	BU	28	DG	N1-C6-O6	8.30	124.88	119.90
115	C5	19	DG	N1-C6-O6	8.30	124.88	119.90
1	AA	7050	DG	N1-C6-O6	8.29	124.88	119.90
4	A2	39	DA	P-O3'-C3'	8.29	129.65	119.70
14	AE	38	DG	N1-C6-O6	8.29	124.88	119.90
69	BE	36	DG	N1-C6-O6	8.29	124.88	119.90
1	AA	948	DG	N1-C6-O6	8.29	124.88	119.90
1	AA	1945	DG	N1-C6-O6	8.29	124.88	119.90
1	AA	2607	DG	N1-C6-O6	8.29	124.88	119.90
1	AA	4137	DG	N1-C6-O6	8.29	124.88	119.90
68	BD	34	DG	N1-C6-O6	8.29	124.88	119.90
93	Bc	41	DG	C5-C6-O6	-8.29	123.62	128.60
117	C7	32	DG	N1-C6-O6	8.29	124.88	119.90
133	CP	31	DG	N1-C6-O6	8.29	124.88	119.90
1	AA	1836	DG	N1-C6-O6	8.29	124.87	119.90
1	AA	5863	DG	N1-C6-O6	8.29	124.87	119.90
8	A6	42	DG	N1-C6-O6	8.29	124.87	119.90
44	Ak	2	DG	C5-C6-O6	-8.29	123.63	128.60
71	BG	17	DG	N1-C6-O6	8.29	124.87	119.90
1	AA	2108	DG	N1-C6-O6	8.29	124.87	119.90
1	AA	2423	DG	N1-C6-O6	8.29	124.87	119.90
1	AA	6576	DG	N1-C6-O6	8.29	124.87	119.90
9	A7	46	DG	C5-C6-O6	-8.29	123.63	128.60
73	BI	8	DG	N1-C6-O6	8.29	124.87	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
76	BL	18	DG	C5-C6-O6	-8.29	123.63	128.60
1	AA	1775	DA	O4'-C4'-C3'	-8.28	101.03	106.00
1	AA	2500	DC	O4'-C1'-C2'	-8.29	99.27	105.90
1	AA	4730	DT	O4'-C4'-C3'	-8.29	101.03	106.00
1	AA	4762	DG	N1-C6-O6	8.29	124.87	119.90
65	B9	10	DT	O4'-C1'-C2'	-8.29	99.27	105.90
1	AA	4351	DG	N1-C6-O6	8.28	124.87	119.90
43	Aj	21	DG	O4'-C1'-N9	8.29	113.80	108.00
84	BT	46	DG	N1-C6-O6	8.29	124.87	119.90
153	Cq	15	DG	N1-C6-O6	8.29	124.87	119.90
1	AA	2568	DG	N1-C6-O6	8.28	124.87	119.90
1	AA	2578	DG	N1-C6-O6	8.28	124.87	119.90
1	AA	4098	DG	N1-C6-O6	8.28	124.87	119.90
39	Af	33	DG	N1-C6-O6	8.28	124.87	119.90
119	CB	3	DG	N1-C6-O6	8.28	124.87	119.90
37	Ac	35	DG	N1-C6-O6	8.28	124.87	119.90
101	Bk	43	DG	N1-C6-O6	8.28	124.87	119.90
1	AA	1882	DG	N1-C6-O6	8.28	124.87	119.90
1	AA	6888	DG	N1-C6-O6	8.28	124.87	119.90
92	Bb	58	DG	N1-C6-O6	8.28	124.87	119.90
99	Bi	39	DG	N1-C6-O6	8.28	124.87	119.90
1	AA	5395	DG	C5-C6-O6	-8.28	123.63	128.60
8	A6	5	DG	N1-C6-O6	8.28	124.87	119.90
98	Bh	9	DG	N1-C6-O6	8.28	124.87	119.90
122	CE	22	DG	N1-C6-O6	8.28	124.87	119.90
1	AA	576	DG	N1-C6-O6	8.28	124.86	119.90
1	AA	3166	DG	N1-C6-O6	8.28	124.86	119.90
20	AK	11	DG	C5-C6-O6	-8.28	123.64	128.60
31	AV	12	DG	C5-C6-O6	-8.28	123.64	128.60
107	Bq	43	DG	N1-C6-O6	8.28	124.86	119.90
120	CC	5	DG	N1-C6-O6	8.28	124.86	119.90
140	CW	38	DG	N1-C6-O6	8.28	124.87	119.90
1	AA	646	DG	N1-C6-O6	8.27	124.86	119.90
1	AA	887	DG	N1-C6-O6	8.27	124.86	119.90
1	AA	2032	DG	N1-C6-O6	8.27	124.86	119.90
1	AA	2596	DG	N1-C6-O6	8.27	124.86	119.90
110	C0	34	DG	N1-C6-O6	8.27	124.86	119.90
66	BB	22	DA	O4'-C4'-C3'	-8.27	101.04	106.00
1	AA	3489	DG	N1-C6-O6	8.27	124.86	119.90
1	AA	5899	DG	N1-C6-O6	8.27	124.86	119.90
1	AA	6739	DG	N1-C6-O6	8.27	124.86	119.90
16	AG	41	DC	O4'-C1'-N1	8.27	113.79	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	An	26	DG	N1-C6-O6	8.27	124.86	119.90
86	BV	36	DG	N1-C6-O6	8.27	124.86	119.90
115	C5	11	DG	N1-C6-O6	8.27	124.86	119.90
122	CE	12	DA	C5-C6-N6	-8.27	117.08	123.70
1	AA	1618	DG	O4'-C4'-C3'	-8.27	101.04	106.00
1	AA	3624	DG	N1-C6-O6	8.27	124.86	119.90
68	BD	9	DG	N1-C6-O6	8.27	124.86	119.90
1	AA	4305	DG	N1-C6-O6	8.27	124.86	119.90
1	AA	7006	DG	N1-C6-O6	8.27	124.86	119.90
70	BF	10	DG	N1-C6-O6	8.27	124.86	119.90
84	BT	43	DG	N1-C6-O6	8.27	124.86	119.90
52	Aw	45	DG	C5-C6-O6	-8.27	123.64	128.60
79	BO	46	DG	N1-C6-O6	8.27	124.86	119.90
80	BP	59	DG	N1-C6-O6	8.27	124.86	119.90
96	Bf	2	DT	O4'-C1'-C2'	-8.27	99.29	105.90
99	Bi	17	DG	N1-C6-O6	8.27	124.86	119.90
104	Bn	41	DG	C5-C6-O6	-8.27	123.64	128.60
158	Cv	14	DG	N1-C6-O6	8.27	124.86	119.90
1	AA	1251	DG	N1-C6-O6	8.26	124.86	119.90
153	Cq	36	DG	N1-C6-O6	8.26	124.86	119.90
1	AA	2962	DG	N1-C6-O6	8.26	124.86	119.90
1	AA	6928	DG	O4'-C4'-C3'	-8.26	101.04	106.00
1	AA	328	DG	N1-C6-O6	8.26	124.86	119.90
1	AA	2325	DG	N1-C6-O6	8.26	124.86	119.90
1	AA	5358	DG	N1-C6-O6	8.26	124.86	119.90
37	Ac	12	DG	C5-C6-O6	-8.26	123.64	128.60
53	Ax	22	DG	C5-C6-O6	-8.26	123.64	128.60
125	CH	19	DG	N1-C6-O6	8.26	124.86	119.90
1	AA	164	DG	N1-C6-O6	8.26	124.85	119.90
1	AA	5116	DG	N1-C6-O6	8.26	124.86	119.90
2	A0	7	DG	N1-C6-O6	8.26	124.86	119.90
1	AA	1752	DG	N1-C6-O6	8.26	124.85	119.90
1	AA	4732	DG	N1-C6-O6	8.26	124.85	119.90
1	AA	4879	DG	N1-C6-O6	8.26	124.85	119.90
1	AA	6623	DG	N1-C6-O6	8.26	124.85	119.90
26	AQ	4	DG	N1-C6-O6	8.26	124.86	119.90
123	CF	16	DG	C5-C6-O6	-8.26	123.64	128.60
61	B5	15	DA	C5-C6-N6	-8.26	117.10	123.70
108	Br	33	DG	N1-C6-O6	8.26	124.85	119.90
153	Cq	17	DG	N1-C6-O6	8.26	124.85	119.90
1	AA	1106	DG	N1-C6-O6	8.25	124.85	119.90
1	AA	1940	DG	N1-C6-O6	8.25	124.85	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
156	Ct	11	DT	O4'-C1'-C2'	-8.25	99.30	105.90
24	AO	38	DG	N1-C6-O6	8.25	124.85	119.90
1	AA	473	DG	N1-C6-O6	8.25	124.85	119.90
1	AA	2144	DG	N1-C6-O6	8.25	124.85	119.90
1	AA	6979	DG	C5-C6-O6	-8.25	123.65	128.60
1	AA	7119	DC	O4'-C1'-C2'	-8.25	99.30	105.90
27	AR	37	DG	N1-C6-O6	8.25	124.85	119.90
83	BS	30	DG	O4'-C4'-C3'	-8.25	101.05	106.00
83	BS	48	DG	N1-C6-O6	8.25	124.85	119.90
92	Bb	12	DG	N1-C6-O6	8.25	124.85	119.90
1	AA	4384	DG	N1-C6-O6	8.25	124.85	119.90
57	B1	55	DG	C5-C6-O6	-8.25	123.65	128.60
1	AA	1376	DG	C5-C6-O6	-8.25	123.65	128.60
1	AA	6277	DG	N1-C6-O6	8.25	124.85	119.90
1	AA	6964	DG	N1-C6-O6	8.25	124.85	119.90
36	Ab	13	DG	N1-C6-O6	8.25	124.85	119.90
58	B2	22	DA	O4'-C4'-C3'	-8.25	101.05	106.00
86	BV	9	DG	N1-C6-O6	8.25	124.85	119.90
88	BX	48	DG	N1-C6-O6	8.25	124.85	119.90
55	Az	40	DG	N1-C6-O6	8.24	124.85	119.90
68	BD	35	DG	N1-C6-O6	8.24	124.85	119.90
133	CP	17	DG	N1-C6-O6	8.24	124.85	119.90
1	AA	295	DG	N1-C6-O6	8.24	124.84	119.90
1	AA	2272	DG	N1-C6-O6	8.24	124.84	119.90
65	B9	40	DG	N1-C6-O6	8.24	124.85	119.90
1	AA	3585	DG	N1-C6-O6	8.24	124.84	119.90
1	AA	5677	DG	N1-C6-O6	8.24	124.84	119.90
1	AA	5869	DG	N1-C6-O6	8.24	124.84	119.90
1	AA	661	DG	N1-C6-O6	8.24	124.84	119.90
1	AA	1107	DG	N1-C6-O6	8.24	124.84	119.90
81	BQ	18	DG	N1-C6-O6	8.24	124.84	119.90
141	CX	8	DG	N1-C6-O6	8.24	124.84	119.90
1	AA	3885	DG	N1-C6-O6	8.24	124.84	119.90
1	AA	3963	DG	N1-C6-O6	8.24	124.84	119.90
1	AA	5015	DG	C5-C6-O6	-8.24	123.66	128.60
1	AA	6963	DG	N1-C6-O6	8.24	124.84	119.90
1	AA	4033	DG	N1-C6-O6	8.24	124.84	119.90
1	AA	6498	DG	C5-C6-O6	-8.24	123.66	128.60
1	AA	7118	DG	N1-C6-O6	8.24	124.84	119.90
15	AF	47	DG	N1-C6-O6	8.24	124.84	119.90
27	AR	32	DG	N1-C6-O6	8.24	124.84	119.90
150	Ch	40	DG	N1-C6-O6	8.24	124.84	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
160	Cx	36	DG	N1-C6-O6	8.24	124.84	119.90
1	AA	3249	DG	N1-C6-O6	8.23	124.84	119.90
1	AA	5476	DG	N1-C6-O6	8.23	124.84	119.90
1	AA	5820	DG	C5-C6-O6	-8.23	123.66	128.60
113	C3	42	DG	C5-C6-O6	-8.23	123.66	128.60
116	C6	43	DC	O4'-C4'-C3'	-8.23	101.06	106.00
1	AA	5917	DG	N1-C6-O6	8.23	124.84	119.90
1	AA	6785	DG	N1-C6-O6	8.23	124.84	119.90
97	Bg	5	DG	N1-C6-O6	8.23	124.84	119.90
102	Bl	1	DC	O4'-C1'-N1	8.23	113.76	108.00
1	AA	3969	DG	N1-C6-O6	8.23	124.84	119.90
124	CG	34	DG	N1-C6-O6	8.23	124.84	119.90
1	AA	4651	DT	C1'-O4'-C4'	-8.23	101.87	110.10
42	Ai	34	DT	O4'-C1'-C2'	-8.23	99.32	105.90
49	As	42	DG	O4'-C4'-C3'	-8.23	101.06	106.00
65	B9	46	DG	P-O3'-C3'	8.23	129.58	119.70
70	BF	37	DG	N1-C6-O6	8.23	124.84	119.90
1	AA	3327	DG	N1-C6-O6	8.23	124.84	119.90
94	Bd	52	DG	N1-C6-O6	8.23	124.84	119.90
1	AA	566	DG	N1-C6-O6	8.23	124.84	119.90
1	AA	1289	DG	N1-C6-O6	8.23	124.84	119.90
144	Cb	20	DG	N1-C6-O6	8.23	124.84	119.90
1	AA	1696	DG	C5-C6-O6	-8.23	123.67	128.60
63	B7	14	DG	N1-C6-O6	8.23	124.84	119.90
85	BU	29	DG	N1-C6-O6	8.23	124.83	119.90
161	Cy	5	DG	N1-C6-O6	8.23	124.84	119.90
1	AA	2637	DG	C5-C6-O6	-8.22	123.67	128.60
1	AA	6857	DG	N1-C6-O6	8.22	124.83	119.90
68	BD	1	DG	N1-C6-O6	8.22	124.83	119.90
69	BE	42	DG	N1-C6-O6	8.22	124.83	119.90
95	Be	21	DG	N1-C6-O6	8.22	124.83	119.90
124	CG	39	DG	N1-C6-O6	8.22	124.83	119.90
142	CY	3	DG	C5-C6-O6	-8.22	123.67	128.60
1	AA	3348	DG	N1-C6-O6	8.22	124.83	119.90
1	AA	5006	DG	N1-C6-O6	8.22	124.83	119.90
52	Aw	10	DT	O4'-C1'-C2'	-8.22	99.32	105.90
84	BT	52	DG	N1-C6-O6	8.22	124.83	119.90
98	Bh	38	DG	N1-C6-O6	8.22	124.83	119.90
149	Cg	36	DG	P-O3'-C3'	8.22	129.56	119.70
162	Cz	21	DG	N1-C6-O6	8.22	124.83	119.90
1	AA	1968	DA	P-O3'-C3'	8.22	129.56	119.70
1	AA	3744	DG	C5-C6-O6	-8.22	123.67	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
75	BK	12	DG	C5-C6-O6	-8.22	123.67	128.60
94	Bd	22	DG	N1-C6-O6	8.22	124.83	119.90
104	Bn	42	DG	N1-C6-O6	8.22	124.83	119.90
118	C8	41	DG	N1-C6-O6	8.22	124.83	119.90
121	CD	29	DG	N1-C6-O6	8.22	124.83	119.90
139	CV	50	DG	N1-C6-O6	8.22	124.83	119.90
19	AJ	48	DG	N1-C6-O6	8.22	124.83	119.90
1	AA	3734	DG	N1-C6-O6	8.21	124.83	119.90
1	AA	3816	DG	C5-C6-O6	-8.21	123.67	128.60
1	AA	2409	DG	N1-C6-O6	8.21	124.83	119.90
1	AA	2797	DG	N1-C6-O6	8.21	124.83	119.90
62	B6	7	DG	N1-C6-O6	8.21	124.83	119.90
121	CD	4	DG	N1-C6-O6	8.21	124.83	119.90
1	AA	2484	DG	N1-C6-O6	8.21	124.83	119.90
40	Ag	13	DG	N1-C6-O6	8.21	124.83	119.90
144	Cb	26	DG	N1-C6-O6	8.21	124.83	119.90
1	AA	4758	DG	N1-C6-O6	8.21	124.83	119.90
19	AJ	12	DG	C5-C6-O6	-8.21	123.67	128.60
29	AT	45	DA	P-O3'-C3'	8.21	129.55	119.70
1	AA	4582	DG	N1-C6-O6	8.21	124.82	119.90
74	BJ	37	DG	N1-C6-O6	8.21	124.82	119.90
104	Bn	52	DG	N1-C6-O6	8.21	124.83	119.90
121	CD	5	DG	N1-C6-O6	8.21	124.83	119.90
115	C5	50	DG	N1-C6-O6	8.21	124.82	119.90
1	AA	4974	DG	N1-C6-O6	8.21	124.82	119.90
1	AA	6338	DG	N1-C6-O6	8.21	124.82	119.90
3	A1	34	DG	O4'-C1'-C2'	-8.21	99.33	105.90
126	CI	14	DT	O4'-C1'-C2'	-8.21	99.34	105.90
145	Cc	57	DG	N1-C6-O6	8.21	124.82	119.90
155	Cs	38	DG	N1-C6-O6	8.21	124.82	119.90
1	AA	642	DG	N1-C6-O6	8.20	124.82	119.90
3	A1	21	DG	N1-C6-O6	8.20	124.82	119.90
152	Cp	36	DG	C5-C6-O6	-8.20	123.68	128.60
1	AA	6388	DG	N1-C6-O6	8.20	124.82	119.90
1	AA	6401	DG	N1-C6-O6	8.20	124.82	119.90
26	AQ	46	DG	N1-C6-O6	8.20	124.82	119.90
35	AZ	11	DG	N1-C6-O6	8.20	124.82	119.90
1	AA	579	DG	N1-C6-O6	8.20	124.82	119.90
104	Bn	22	DG	C5-C6-O6	-8.20	123.68	128.60
1	AA	3081	DG	O4'-C1'-C2'	-8.20	99.34	105.90
1	AA	6872	DA	O4'-C4'-C3'	-8.20	101.08	106.00
1	AA	7033	DG	N1-C6-O6	8.20	124.82	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
81	BQ	41	DG	N1-C6-O6	8.20	124.82	119.90
102	Bl	11	DG	N1-C6-O6	8.20	124.82	119.90
130	CM	8	DG	C5-C6-O6	-8.20	123.68	128.60
1	AA	5284	DG	N1-C6-O6	8.20	124.82	119.90
1	AA	6098	DG	N1-C6-O6	8.20	124.82	119.90
3	A1	2	DG	O4'-C1'-N9	8.20	113.74	108.00
1	AA	4108	DG	N1-C6-O6	8.19	124.82	119.90
16	AG	3	DG	P-O3'-C3'	8.19	129.53	119.70
36	Ab	15	DG	N1-C6-O6	8.19	124.81	119.90
94	Bd	44	DG	N1-C6-O6	8.19	124.81	119.90
115	C5	25	DG	N1-C6-O6	8.19	124.81	119.90
122	CE	13	DG	C5-C6-O6	-8.19	123.68	128.60
139	CV	41	DG	N1-C6-O6	8.19	124.82	119.90
1	AA	63	DC	O4'-C1'-N1	8.19	113.73	108.00
1	AA	5875	DG	N1-C6-O6	8.19	124.81	119.90
1	AA	2897	DG	N1-C6-O6	8.19	124.81	119.90
1	AA	4971	DG	C5-C6-O6	-8.19	123.69	128.60
30	AU	37	DG	C5-C6-O6	-8.19	123.69	128.60
60	B4	11	DG	N1-C6-O6	8.19	124.81	119.90
1	AA	4436	DG	N1-C6-O6	8.19	124.81	119.90
1	AA	6696	DG	N1-C6-O6	8.19	124.81	119.90
1	AA	5521	DC	C1'-O4'-C4'	-8.19	101.92	110.10
13	AD	25	DG	N1-C6-O6	8.19	124.81	119.90
63	B7	34	DG	N1-C6-O6	8.19	124.81	119.90
155	Cs	47	DG	N1-C6-O6	8.19	124.81	119.90
1	AA	2969	DG	N1-C6-O6	8.18	124.81	119.90
1	AA	5266	DT	O3'-P-O5'	-8.18	88.45	104.00
1	AA	6352	DG	N1-C6-O6	8.18	124.81	119.90
1	AA	996	DG	N1-C6-O6	8.18	124.81	119.90
1	AA	4020	DG	N1-C6-O6	8.18	124.81	119.90
1	AA	4279	DG	N1-C6-O6	8.18	124.81	119.90
1	AA	5024	DG	N1-C6-O6	8.18	124.81	119.90
5	A3	31	DG	N1-C6-O6	8.18	124.81	119.90
19	AJ	44	DG	N1-C6-O6	8.18	124.81	119.90
41	Ah	29	DG	C5-C6-O6	-8.18	123.69	128.60
152	Cp	19	DG	N1-C6-O6	8.18	124.81	119.90
156	Ct	24	DA	O4'-C4'-C3'	-8.18	101.09	106.00
1	AA	1125	DG	N1-C6-O6	8.18	124.81	119.90
1	AA	1136	DG	N1-C6-O6	8.18	124.81	119.90
1	AA	4372	DG	N1-C6-O6	8.18	124.81	119.90
1	AA	6450	DA	P-O5'-C5'	8.18	133.98	120.90
44	Ak	7	DG	N1-C6-O6	8.18	124.81	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
152	Cp	6	DG	N1-C6-O6	8.18	124.81	119.90
8	A6	16	DG	N1-C6-O6	8.17	124.80	119.90
32	AW	23	DG	C5-C6-O6	-8.17	123.70	128.60
104	Bn	45	DG	N1-C6-O6	8.17	124.80	119.90
153	Cq	21	DG	N1-C6-O6	8.17	124.80	119.90
1	AA	6485	DG	N1-C6-O6	8.17	124.80	119.90
6	A4	2	DG	N1-C6-O6	8.17	124.80	119.90
40	Ag	45	DG	C5-C6-O6	-8.17	123.70	128.60
100	Bj	27	DG	N1-C6-O6	8.17	124.80	119.90
145	Cc	16	DG	N1-C6-O6	8.17	124.80	119.90
42	Ai	37	DG	N1-C6-O6	8.17	124.80	119.90
123	CF	21	DG	C5-C6-O6	-8.17	123.70	128.60
1	AA	6330	DG	P-O3'-C3'	8.17	129.50	119.70
1	AA	6682	DG	N1-C6-O6	8.17	124.80	119.90
4	A2	36	DG	C5-C6-O6	-8.17	123.70	128.60
23	AN	1	DG	C5-C6-O6	-8.17	123.70	128.60
1	AA	2965	DG	N1-C6-O6	8.17	124.80	119.90
3	A1	35	DT	P-O3'-C3'	8.17	129.50	119.70
61	B5	24	DG	N1-C6-O6	8.17	124.80	119.90
115	C5	22	DG	N1-C6-O6	8.17	124.80	119.90
1	AA	6981	DG	C5-C6-O6	-8.16	123.70	128.60
93	Bc	35	DG	N1-C6-O6	8.16	124.80	119.90
125	CH	3	DG	N1-C6-O6	8.16	124.80	119.90
1	AA	3273	DG	N1-C6-O6	8.16	124.80	119.90
1	AA	3465	DG	N1-C6-O6	8.16	124.80	119.90
1	AA	5088	DG	N1-C6-O6	8.16	124.80	119.90
1	AA	6843	DG	N1-C6-O6	8.16	124.80	119.90
85	BU	6	DG	N1-C6-O6	8.16	124.80	119.90
2	A0	32	DG	C5-C6-O6	-8.16	123.70	128.60
1	AA	1659	DT	O4'-C4'-C3'	-8.16	101.11	106.00
1	AA	4796	DG	N1-C6-O6	8.16	124.80	119.90
88	BX	14	DG	C5-C6-O6	-8.16	123.70	128.60
93	Bc	25	DG	N1-C6-O6	8.16	124.80	119.90
154	Cr	39	DG	C5-C6-O6	-8.16	123.70	128.60
1	AA	1672	DG	N1-C6-O6	8.16	124.79	119.90
1	AA	4640	DG	N1-C6-O6	8.16	124.79	119.90
1	AA	5627	DC	O4'-C1'-C2'	-8.16	99.37	105.90
1	AA	6012	DG	N1-C6-O6	8.16	124.79	119.90
20	AK	14	DG	C5-C6-O6	-8.16	123.71	128.60
77	BM	43	DT	O4'-C4'-C3'	-8.16	101.11	106.00
93	Bc	11	DG	N1-C6-O6	8.16	124.79	119.90
1	AA	501	DC	OP2-P-O3'	8.15	123.14	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
15	AF	45	DG	N1-C6-O6	8.15	124.79	119.90
1	AA	3382	DG	C5-C6-O6	-8.15	123.71	128.60
1	AA	5794	DG	N1-C6-O6	8.15	124.79	119.90
1	AA	6472	DG	N1-C6-O6	8.15	124.79	119.90
137	CT	1	DG	N1-C6-O6	8.15	124.79	119.90
1	AA	150	DG	N1-C6-O6	8.15	124.79	119.90
148	Cf	13	DG	N1-C6-O6	8.15	124.79	119.90
1	AA	2687	DG	N1-C6-O6	8.15	124.79	119.90
1	AA	3981	DG	N1-C6-O6	8.15	124.79	119.90
1	AA	5269	DG	N1-C6-O6	8.15	124.79	119.90
1	AA	7040	DG	N1-C6-O6	8.15	124.79	119.90
79	BO	9	DG	N1-C6-O6	8.15	124.79	119.90
92	Bb	47	DG	N1-C6-O6	8.15	124.79	119.90
1	AA	1201	DG	N1-C6-O6	8.15	124.79	119.90
1	AA	1667	DG	N1-C6-O6	8.15	124.79	119.90
1	AA	3250	DG	N1-C6-O6	8.15	124.79	119.90
1	AA	3260	DG	C5-C6-O6	-8.15	123.71	128.60
1	AA	3983	DG	N1-C6-O6	8.15	124.79	119.90
1	AA	5806	DG	C5-C6-O6	-8.15	123.71	128.60
44	Ak	15	DG	C5-C6-O6	-8.15	123.71	128.60
106	Bp	42	DG	N1-C6-O6	8.15	124.79	119.90
1	AA	1660	DG	N1-C6-O6	8.14	124.79	119.90
31	AV	1	DG	N1-C6-O6	8.14	124.79	119.90
108	Br	48	DG	C5-C6-O6	-8.14	123.71	128.60
1	AA	93	DG	N1-C6-O6	8.14	124.78	119.90
1	AA	2710	DG	N1-C6-O6	8.14	124.78	119.90
1	AA	7158	DG	N1-C6-O6	8.14	124.78	119.90
53	Ax	2	DG	N1-C6-O6	8.14	124.78	119.90
112	C2	29	DG	C5-C6-O6	-8.14	123.72	128.60
131	CN	34	DG	P-O3'-C3'	8.14	129.47	119.70
155	Cs	13	DG	N1-C6-O6	8.14	124.78	119.90
159	Cw	44	DT	P-O3'-C3'	8.14	129.47	119.70
1	AA	714	DG	N1-C6-O6	8.14	124.78	119.90
1	AA	3533	DG	C5-C6-O6	-8.14	123.72	128.60
10	A8	7	DG	C5-C6-O6	-8.14	123.72	128.60
1	AA	639	DC	O4'-C1'-C2'	-8.13	99.39	105.90
1	AA	2767	DG	N1-C6-O6	8.13	124.78	119.90
1	AA	3868	DG	N1-C6-O6	8.14	124.78	119.90
1	AA	5316	DG	N1-C6-O6	8.13	124.78	119.90
3	A1	28	DG	N1-C6-O6	8.13	124.78	119.90
131	CN	23	DG	N1-C6-O6	8.13	124.78	119.90
139	CV	31	DG	C5-C6-O6	-8.13	123.72	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
150	Ch	13	DC	O4'-C1'-N1	8.14	113.69	108.00
1	AA	541	DG	N1-C6-O6	8.13	124.78	119.90
1	AA	2592	DG	C5-C6-O6	-8.13	123.72	128.60
1	AA	5210	DG	C5-C6-O6	-8.13	123.72	128.60
1	AA	2023	DG	C5-C6-O6	-8.13	123.72	128.60
27	AR	35	DG	N1-C6-O6	8.13	124.78	119.90
48	Ao	12	DG	N1-C6-O6	8.13	124.78	119.90
59	B3	15	DG	N1-C6-O6	8.13	124.78	119.90
1	AA	971	DG	N1-C6-O6	8.13	124.78	119.90
1	AA	7145	DG	N1-C6-O6	8.13	124.78	119.90
30	AU	46	DC	P-O3'-C3'	8.13	129.45	119.70
91	Ba	23	DA	O4'-C4'-C3'	-8.13	101.12	106.00
99	Bi	12	DG	N1-C6-O6	8.13	124.78	119.90
1	AA	454	DG	C5-C6-O6	-8.12	123.72	128.60
1	AA	2831	DG	N1-C6-O6	8.13	124.78	119.90
1	AA	4651	DT	O4'-C1'-N1	8.13	113.69	108.00
53	Ax	1	DC	O4'-C1'-N1	8.13	113.69	108.00
139	CV	6	DG	N1-C6-O6	8.12	124.77	119.90
1	AA	3066	DG	P-O3'-C3'	8.12	129.45	119.70
1	AA	4478	DG	N1-C6-O6	8.12	124.77	119.90
1	AA	4922	DG	N1-C6-O6	8.12	124.77	119.90
1	AA	6416	DG	O4'-C4'-C3'	-8.12	101.13	106.00
102	Bl	26	DC	O4'-C4'-C3'	-8.12	101.13	106.00
1	AA	1644	DG	N1-C6-O6	8.12	124.77	119.90
1	AA	740	DG	N1-C6-O6	8.12	124.77	119.90
1	AA	1825	DG	C5-C6-O6	-8.12	123.73	128.60
1	AA	4932	DG	C5-C6-O6	-8.12	123.73	128.60
78	BN	49	DA	P-O3'-C3'	8.12	129.44	119.70
1	AA	2942	DG	C5-C6-O6	-8.12	123.73	128.60
53	Ax	30	DG	N1-C6-O6	8.12	124.77	119.90
152	Cp	6	DG	O4'-C1'-C2'	-8.12	99.41	105.90
1	AA	4583	DG	N1-C6-O6	8.12	124.77	119.90
8	A6	30	DG	N1-C6-O6	8.12	124.77	119.90
104	Bn	53	DG	N1-C6-O6	8.12	124.77	119.90
1	AA	2185	DT	O4'-C1'-C2'	-8.11	99.41	105.90
85	BU	45	DG	N1-C6-O6	8.11	124.77	119.90
116	C6	8	DG	C5-C6-O6	-8.12	123.73	128.60
128	CK	43	DG	C5-C6-O6	-8.12	123.73	128.60
151	Ck	24	DG	N1-C6-O6	8.11	124.77	119.90
1	AA	6001	DA	O4'-C4'-C3'	-8.11	101.13	106.00
1	AA	6491	DT	O4'-C1'-C2'	-8.11	99.41	105.90
1	AA	7053	DG	P-O3'-C3'	8.11	129.44	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
121	CD	23	DG	C5-C6-O6	-8.11	123.73	128.60
35	AZ	21	DG	N1-C6-O6	8.11	124.77	119.90
1	AA	827	DG	C5-C6-O6	-8.11	123.73	128.60
1	AA	2632	DG	N1-C6-O6	8.11	124.77	119.90
5	A3	37	DG	O4'-C1'-N9	8.11	113.67	108.00
27	AR	52	DG	N1-C6-O6	8.11	124.77	119.90
57	B1	31	DG	C5-C6-O6	-8.11	123.73	128.60
89	BY	45	DG	N1-C6-O6	8.11	124.77	119.90
1	AA	3557	DG	N1-C6-O6	8.11	124.76	119.90
1	AA	4957	DG	N1-C6-O6	8.11	124.76	119.90
1	AA	4556	DG	N1-C6-O6	8.11	124.76	119.90
1	AA	5704	DG	N1-C6-O6	8.11	124.76	119.90
36	Ab	41	DG	C5-C6-O6	-8.11	123.74	128.60
63	B7	5	DG	N1-C6-O6	8.11	124.76	119.90
78	BN	43	DG	N1-C6-O6	8.11	124.76	119.90
1	AA	1459	DG	C5-C6-O6	-8.10	123.74	128.60
1	AA	4554	DG	N1-C6-O6	8.10	124.76	119.90
1	AA	6009	DG	N1-C6-O6	8.10	124.76	119.90
2	A0	53	DG	N1-C6-O6	8.10	124.76	119.90
17	AH	27	DG	N1-C6-O6	8.10	124.76	119.90
55	Az	46	DG	C5-C6-O6	-8.10	123.74	128.60
57	B1	53	DG	C5-C6-O6	-8.10	123.74	128.60
88	BX	1	DG	N1-C6-O6	8.10	124.76	119.90
106	Bp	47	DG	N1-C6-O6	8.10	124.76	119.90
1	AA	3374	DT	P-O3'-C3'	8.10	129.42	119.70
1	AA	4978	DG	N1-C6-O6	8.10	124.76	119.90
62	B6	1	DG	N1-C6-O6	8.10	124.76	119.90
130	CM	24	DG	N1-C6-O6	8.10	124.76	119.90
1	AA	5027	DG	C5-C6-O6	-8.10	123.74	128.60
17	AH	26	DT	O4'-C1'-C2'	-8.10	99.42	105.90
117	C7	23	DG	N1-C6-O6	8.10	124.76	119.90
1	AA	2367	DG	N1-C6-O6	8.10	124.76	119.90
1	AA	3279	DG	C1'-O4'-C4'	-8.10	102.00	110.10
1	AA	3871	DG	C5-C6-O6	-8.10	123.74	128.60
82	BR	57	DG	N1-C6-O6	8.10	124.76	119.90
93	Bc	13	DG	N1-C6-O6	8.10	124.76	119.90
137	CT	26	DT	P-O3'-C3'	8.10	129.41	119.70
1	AA	6920	DC	C1'-O4'-C4'	-8.09	102.01	110.10
19	AJ	33	DG	C5-C6-O6	-8.09	123.74	128.60
103	Bm	23	DG	N1-C6-O6	8.09	124.76	119.90
1	AA	115	DG	P-O3'-C3'	8.09	129.41	119.70
1	AA	5010	DG	P-O3'-C3'	8.09	129.41	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	A6	39	DG	C5-C6-O6	-8.09	123.75	128.60
96	Bf	40	DG	C5-C6-O6	-8.09	123.75	128.60
1	AA	2520	DG	N1-C6-O6	8.09	124.75	119.90
1	AA	4779	DG	N1-C6-O6	8.09	124.75	119.90
144	Cb	26	DG	O4'-C1'-N9	8.09	113.66	108.00
1	AA	2287	DG	N1-C6-O6	8.09	124.75	119.90
1	AA	6487	DG	N1-C6-O6	8.09	124.75	119.90
26	AQ	55	DG	N1-C6-O6	8.09	124.75	119.90
1	AA	1795	DG	N1-C6-O6	8.09	124.75	119.90
1	AA	4754	DG	N1-C6-O6	8.09	124.75	119.90
1	AA	6831	DG	N1-C6-O6	8.09	124.75	119.90
22	AM	6	DG	C5-C6-O6	-8.09	123.75	128.60
1	AA	3126	DG	C5-C6-O6	-8.08	123.75	128.60
1	AA	3493	DA	P-O3'-C3'	8.08	129.40	119.70
1	AA	707	DG	N1-C6-O6	8.08	124.75	119.90
1	AA	5547	DG	N1-C6-O6	8.08	124.75	119.90
43	Aj	39	DG	C5-C6-O6	-8.08	123.75	128.60
20	AK	37	DG	C5-C6-O6	-8.08	123.75	128.60
26	AQ	38	DG	O4'-C1'-C2'	-8.08	99.44	105.90
28	AS	30	DG	N1-C6-O6	8.08	124.75	119.90
31	AV	10	DG	N1-C6-O6	8.08	124.75	119.90
56	B0	47	DG	N1-C6-O6	8.08	124.75	119.90
65	B9	21	DA	P-O3'-C3'	8.08	129.40	119.70
77	BM	29	DG	C5-C6-O6	-8.08	123.75	128.60
93	Bc	10	DG	N1-C6-O6	8.08	124.75	119.90
120	CC	19	DG	C5-C6-O6	-8.08	123.75	128.60
1	AA	3025	DG	C5-C6-O6	-8.08	123.75	128.60
1	AA	5819	DC	O4'-C1'-N1	8.08	113.65	108.00
1	AA	5864	DA	P-O3'-C3'	8.08	129.39	119.70
74	BJ	21	DG	N1-C6-O6	8.08	124.75	119.90
136	CS	35	DG	N1-C6-O6	8.08	124.75	119.90
1	AA	767	DG	C5-C6-O6	-8.07	123.76	128.60
1	AA	2712	DG	C5-C6-O6	-8.07	123.75	128.60
1	AA	4123	DT	C1'-O4'-C4'	-8.07	102.03	110.10
1	AA	5978	DA	C5-C6-N6	-8.07	117.24	123.70
12	AC	42	DG	N1-C6-O6	8.07	124.75	119.90
49	As	15	DG	C5-C6-O6	-8.07	123.76	128.60
98	Bh	10	DG	N1-C6-O6	8.07	124.75	119.90
13	AD	17	DG	N1-C6-O6	8.07	124.74	119.90
59	B3	24	DG	C5-C6-O6	-8.07	123.76	128.60
128	CK	31	DG	N1-C6-O6	8.07	124.74	119.90
1	AA	623	DG	N1-C6-O6	8.07	124.74	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2424	DG	N1-C6-O6	8.07	124.74	119.90
1	AA	2698	DG	C5-C6-O6	-8.07	123.76	128.60
1	AA	4866	DC	P-O3'-C3'	8.07	129.38	119.70
19	AJ	9	DG	N1-C6-O6	8.07	124.74	119.90
1	AA	3959	DG	N1-C6-O6	8.07	124.74	119.90
89	BY	26	DG	C5-C6-O6	-8.07	123.76	128.60
95	Be	34	DG	N1-C6-O6	8.07	124.74	119.90
97	Bg	7	DG	N1-C6-O6	8.07	124.74	119.90
47	An	16	DG	C5-C6-O6	-8.06	123.76	128.60
92	Bb	16	DG	N1-C6-O6	8.06	124.74	119.90
1	AA	1619	DG	N1-C6-O6	8.06	124.74	119.90
1	AA	6156	DG	N1-C6-O6	8.06	124.74	119.90
1	AA	6937	DT	O4'-C4'-C3'	-8.06	101.16	106.00
50	Au	41	DG	N1-C6-O6	8.06	124.74	119.90
1	AA	427	DG	N1-C6-O6	8.06	124.74	119.90
147	Ce	35	DG	N1-C6-O6	8.06	124.74	119.90
1	AA	5421	DG	C5-C6-O6	-8.06	123.76	128.60
10	A8	38	DA	O4'-C4'-C3'	-8.06	101.16	106.00
51	Av	30	DG	N1-C6-O6	8.06	124.74	119.90
115	C5	18	DG	N1-C6-O6	8.06	124.74	119.90
1	AA	2388	DG	N1-C6-O6	8.06	124.73	119.90
1	AA	2468	DG	N1-C6-O6	8.06	124.73	119.90
1	AA	4424	DG	N1-C6-O6	8.06	124.73	119.90
1	AA	4905	DG	N1-C6-O6	8.06	124.74	119.90
30	AU	40	DG	C5-C6-O6	-8.06	123.76	128.60
43	Aj	20	DA	C5-C6-N6	-8.06	117.25	123.70
79	BO	37	DA	P-O3'-C3'	8.06	129.37	119.70
122	CE	19	DG	C5-C6-O6	-8.06	123.77	128.60
1	AA	397	DG	N1-C6-O6	8.06	124.73	119.90
62	B6	14	DG	N1-C6-O6	8.06	124.73	119.90
96	Bf	13	DG	N1-C6-O6	8.05	124.73	119.90
1	AA	847	DG	C5-C6-O6	-8.05	123.77	128.60
1	AA	994	DG	N1-C6-O6	8.05	124.73	119.90
155	Cs	4	DG	C5-C6-O6	-8.05	123.77	128.60
1	AA	691	DG	N1-C6-O6	8.05	124.73	119.90
1	AA	2391	DC	O4'-C1'-C2'	-8.05	99.46	105.90
1	AA	4080	DG	N1-C6-O6	8.05	124.73	119.90
122	CE	6	DT	O4'-C4'-C3'	-8.05	101.17	106.00
1	AA	2912	DG	N1-C6-O6	8.05	124.73	119.90
1	AA	4536	DG	C4'-C3'-C2'	-8.05	95.85	103.10
44	Ak	35	DG	C5-C6-O6	-8.05	123.77	128.60
50	Au	39	DG	N1-C6-O6	8.05	124.73	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
93	Bc	47	DG	N1-C6-O6	8.05	124.73	119.90
1	AA	3971	DC	O4'-C1'-C2'	-8.05	99.46	105.90
1	AA	5558	DG	N1-C6-O6	8.05	124.73	119.90
1	AA	6781	DG	N1-C6-O6	8.05	124.73	119.90
1	AA	4349	DG	C5-C6-O6	-8.04	123.77	128.60
1	AA	5216	DG	N1-C6-O6	8.04	124.72	119.90
1	AA	6118	DG	N1-C6-O6	8.04	124.72	119.90
80	BP	14	DG	N1-C6-O6	8.04	124.72	119.90
95	Be	9	DG	N1-C6-O6	8.04	124.73	119.90
160	Cx	30	DG	N1-C6-O6	8.04	124.73	119.90
155	Cs	2	DG	C5-C6-O6	-8.04	123.78	128.60
1	AA	1621	DC	P-O3'-C3'	8.04	129.35	119.70
1	AA	3007	DG	C5-C6-O6	-8.04	123.78	128.60
1	AA	6364	DG	N1-C6-O6	8.04	124.72	119.90
45	Al	9	DC	N3-C4-N4	8.04	123.63	118.00
83	BS	39	DG	N1-C6-O6	8.04	124.72	119.90
121	CD	34	DG	C5-C6-O6	-8.04	123.78	128.60
141	CX	5	DG	N1-C6-O6	8.04	124.72	119.90
1	AA	6460	DG	C5-C6-O6	-8.04	123.78	128.60
1	AA	7017	DG	N1-C6-O6	8.04	124.72	119.90
1	AA	3759	DG	C5-C6-O6	-8.03	123.78	128.60
1	AA	737	DG	N1-C6-O6	8.03	124.72	119.90
1	AA	3289	DG	C5-C6-O6	-8.03	123.78	128.60
62	B6	30	DG	N1-C6-O6	8.03	124.72	119.90
1	AA	2754	DG	N1-C6-O6	8.03	124.72	119.90
1	AA	5399	DG	C5-C6-O6	-8.03	123.78	128.60
116	C6	9	DG	C5-C6-O6	-8.03	123.78	128.60
119	CB	49	DG	N1-C6-O6	8.03	124.72	119.90
33	AX	23	DA	P-O3'-C3'	8.03	129.33	119.70
118	C8	43	DA	P-O3'-C3'	8.03	129.33	119.70
1	AA	6725	DG	N1-C6-O6	8.03	124.72	119.90
66	BB	24	DG	C5-C6-O6	-8.03	123.78	128.60
159	Cw	25	DG	N1-C6-O6	8.03	124.72	119.90
1	AA	1766	DT	P-O3'-C3'	8.02	129.33	119.70
1	AA	2713	DG	C5-C6-O6	-8.02	123.79	128.60
1	AA	6030	DG	C5-C6-O6	-8.02	123.79	128.60
1	AA	3565	DG	N1-C6-O6	8.02	124.71	119.90
1	AA	5651	DT	O4'-C1'-N1	8.02	113.62	108.00
17	AH	26	DT	O4'-C4'-C3'	-8.02	101.19	106.00
40	Ag	7	DA	O4'-C1'-N9	8.02	113.62	108.00
22	AM	44	DG	N1-C6-O6	8.02	124.71	119.90
48	Ao	17	DG	C5-C6-O6	-8.02	123.79	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
79	BO	43	DC	O4'-C1'-N1	8.02	113.61	108.00
1	AA	675	DG	N1-C6-O6	8.02	124.71	119.90
1	AA	5459	DG	C5-C6-O6	-8.02	123.79	128.60
1	AA	6067	DG	C5-C6-O6	-8.02	123.79	128.60
35	AZ	18	DA	P-O3'-C3'	8.02	129.32	119.70
1	AA	21	DT	P-O3'-C3'	8.02	129.32	119.70
1	AA	1555	DG	N1-C6-O6	8.02	124.71	119.90
12	AC	41	DG	N1-C6-O6	8.02	124.71	119.90
20	AK	33	DG	N1-C6-O6	8.02	124.71	119.90
27	AR	62	DG	N1-C6-O6	8.02	124.71	119.90
93	Bc	32	DG	N1-C6-O6	8.02	124.71	119.90
157	Cu	46	DG	N1-C6-O6	8.02	124.71	119.90
1	AA	403	DC	O4'-C1'-N1	8.02	113.61	108.00
34	AY	5	DG	C5-C6-O6	-8.02	123.79	128.60
96	Bf	4	DG	N1-C6-O6	8.02	124.71	119.90
37	Ac	16	DG	C5-C6-O6	-8.02	123.79	128.60
1	AA	179	DG	N1-C6-O6	8.01	124.71	119.90
1	AA	4495	DG	C5-C6-O6	-8.01	123.79	128.60
9	A7	15	DG	C5-C6-O6	-8.01	123.79	128.60
1	AA	191	DG	C5-C6-O6	-8.01	123.79	128.60
114	C4	23	DG	N1-C6-O6	8.01	124.71	119.90
26	AQ	1	DG	N1-C6-O6	8.01	124.71	119.90
150	Ch	38	DA	P-O3'-C3'	8.01	129.31	119.70
1	AA	7053	DG	C5-C6-O6	-8.01	123.80	128.60
102	Bl	27	DG	N1-C6-O6	8.01	124.71	119.90
31	AV	26	DC	O4'-C1'-C2'	-8.01	99.49	105.90
1	AA	3423	DG	N1-C6-O6	8.01	124.70	119.90
100	Bj	39	DA	P-O3'-C3'	8.01	129.31	119.70
1	AA	4047	DG	C5-C6-O6	-8.01	123.80	128.60
1	AA	7092	DC	O4'-C4'-C3'	-8.01	101.20	106.00
12	AC	26	DG	C5-C6-O6	-8.01	123.80	128.60
162	Cz	12	DG	N1-C6-O6	8.01	124.70	119.90
1	AA	753	DG	N1-C6-O6	8.00	124.70	119.90
2	A0	13	DA	O4'-C1'-C2'	-8.00	99.50	105.90
99	Bi	56	DA	P-O3'-C3'	8.00	129.30	119.70
108	Br	45	DC	C4'-C3'-C2'	-8.00	95.90	103.10
1	AA	874	DG	N1-C6-O6	8.00	124.70	119.90
1	AA	3915	DG	C5-C6-O6	-8.00	123.80	128.60
1	AA	4099	DA	C1'-O4'-C4'	-8.00	102.10	110.10
1	AA	1903	DG	N1-C6-O6	8.00	124.70	119.90
1	AA	5887	DG	N1-C6-O6	8.00	124.70	119.90
159	Cw	5	DG	N1-C6-O6	8.00	124.70	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2852	DG	C5-C6-O6	-8.00	123.80	128.60
1	AA	4886	DG	C5-C6-O6	-8.00	123.80	128.60
72	BH	20	DG	N1-C6-O6	8.00	124.70	119.90
155	Cs	15	DG	N1-C6-O6	8.00	124.70	119.90
1	AA	4074	DG	C5-C6-O6	-7.99	123.80	128.60
1	AA	5963	DG	C5-C6-O6	-7.99	123.80	128.60
10	A8	14	DG	O4'-C1'-N9	7.99	113.59	108.00
147	Ce	3	DC	O4'-C1'-N1	7.99	113.60	108.00
1	AA	5152	DG	N1-C6-O6	7.99	124.69	119.90
1	AA	5986	DG	C5-C6-O6	-7.99	123.81	128.60
1	AA	6105	DT	O4'-C4'-C3'	-7.99	101.20	106.00
1	AA	2263	DG	C1'-O4'-C4'	-7.99	102.11	110.10
1	AA	2824	DG	N1-C6-O6	7.99	124.69	119.90
42	Ai	9	DG	P-O3'-C3'	7.99	129.29	119.70
93	Bc	39	DG	C5-C6-O6	-7.99	123.81	128.60
139	CV	16	DG	C5-C6-O6	-7.99	123.81	128.60
152	Cp	24	DA	P-O3'-C3'	7.99	129.28	119.70
73	BI	10	DG	C5-C6-O6	-7.99	123.81	128.60
106	Bp	32	DC	O4'-C1'-N1	7.99	113.59	108.00
120	CC	37	DG	C5-C6-O6	-7.99	123.81	128.60
132	CO	46	DG	N1-C6-O6	7.98	124.69	119.90
10	A8	30	DG	N1-C6-O6	7.98	124.69	119.90
35	AZ	36	DG	N1-C6-O6	7.98	124.69	119.90
31	AV	29	DG	C5-C6-O6	-7.98	123.81	128.60
132	CO	18	DG	C5-C6-O6	-7.98	123.81	128.60
1	AA	2909	DG	C5-C6-O6	-7.98	123.81	128.60
1	AA	4965	DG	C5-C6-O6	-7.98	123.81	128.60
29	AT	31	DG	C5-C6-O6	-7.98	123.81	128.60
44	Ak	2	DG	O4'-C1'-N9	7.98	113.58	108.00
76	BL	25	DG	N1-C6-O6	7.98	124.69	119.90
1	AA	3674	DG	C5-C6-O6	-7.98	123.81	128.60
20	AK	50	DG	N1-C6-O6	7.97	124.69	119.90
1	AA	5987	DG	C5-C6-O6	-7.97	123.82	128.60
1	AA	6391	DG	N1-C6-O6	7.97	124.68	119.90
99	Bi	45	DG	N1-C6-O6	7.97	124.68	119.90
1	AA	4849	DG	N1-C6-O6	7.97	124.68	119.90
101	Bk	57	DG	C5-C6-O6	-7.97	123.82	128.60
1	AA	1252	DG	N1-C6-O6	7.97	124.68	119.90
98	Bh	35	DG	N1-C6-O6	7.97	124.68	119.90
159	Cw	28	DA	P-O3'-C3'	7.97	129.26	119.70
26	AQ	14	DT	O4'-C1'-C2'	-7.96	99.53	105.90
26	AQ	47	DG	C5-C6-O6	-7.96	123.82	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
161	Cy	18	DG	C5-C6-O6	-7.96	123.82	128.60
96	Bf	23	DG	P-O3'-C3'	7.96	129.25	119.70
1	AA	3288	DG	N1-C6-O6	7.96	124.68	119.90
8	A6	36	DT	P-O3'-C3'	7.96	129.25	119.70
1	AA	863	DG	C5-C6-O6	-7.96	123.82	128.60
1	AA	245	DG	C5-C6-O6	-7.96	123.83	128.60
29	AT	25	DG	N1-C6-O6	7.96	124.67	119.90
56	B0	1	DG	P-O3'-C3'	7.96	129.25	119.70
1	AA	2505	DG	C5-C6-O6	-7.96	123.83	128.60
1	AA	3089	DC	O4'-C1'-C2'	-7.96	99.53	105.90
1	AA	5309	DG	C5-C6-O6	-7.96	123.83	128.60
43	Aj	53	DG	C5-C6-O6	-7.96	123.83	128.60
106	Bp	29	DT	O4'-C4'-C3'	-7.96	101.23	106.00
43	Aj	7	DG	C5-C6-O6	-7.96	123.83	128.60
1	AA	723	DG	C5-C6-O6	-7.95	123.83	128.60
1	AA	2319	DT	O4'-C4'-C3'	-7.95	101.23	106.00
78	BN	51	DG	N1-C6-O6	7.95	124.67	119.90
1	AA	7133	DT	O4'-C4'-C3'	-7.95	101.23	106.00
115	C5	37	DG	C5-C6-O6	-7.95	123.83	128.60
1	AA	560	DG	N1-C6-O6	7.95	124.67	119.90
144	Cb	32	DA	C5-C6-N6	-7.95	117.34	123.70
1	AA	3279	DG	N1-C6-O6	7.95	124.67	119.90
11	AB	40	DC	O4'-C1'-N1	7.95	113.56	108.00
48	Ao	11	DG	C5-C6-O6	-7.95	123.83	128.60
81	BQ	27	DA	P-O3'-C3'	7.95	129.23	119.70
1	AA	7216	DT	O4'-C1'-C2'	-7.94	99.55	105.90
21	AL	14	DC	C2-N1-C1'	7.94	127.54	118.80
1	AA	5206	DG	N1-C6-O6	7.94	124.67	119.90
74	BJ	40	DG	N1-C6-O6	7.94	124.67	119.90
1	AA	2720	DG	C5-C6-O6	-7.94	123.84	128.60
1	AA	2911	DG	C5-C6-O6	-7.94	123.84	128.60
26	AQ	13	DG	N1-C6-O6	7.94	124.66	119.90
121	CD	37	DG	C5-C6-O6	-7.94	123.84	128.60
112	C2	43	DG	C5-C6-O6	-7.94	123.84	128.60
1	AA	5265	DT	P-O3'-C3'	7.93	129.22	119.70
1	AA	638	DG	C5-C6-O6	-7.93	123.84	128.60
1	AA	1609	DG	C5-C6-O6	-7.93	123.84	128.60
1	AA	5630	DG	C5-C6-O6	-7.93	123.84	128.60
124	CG	1	DG	N1-C6-O6	7.93	124.66	119.90
33	AX	30	DG	C5-C6-O6	-7.93	123.84	128.60
118	C8	18	DG	N1-C6-O6	7.93	124.66	119.90
108	Br	13	DC	O4'-C1'-N1	7.92	113.55	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6543	DG	N1-C6-O6	7.92	124.65	119.90
37	Ac	31	DC	P-O3'-C3'	7.92	129.21	119.70
124	CG	41	DG	O4'-C4'-C3'	-7.92	101.25	106.00
141	CX	16	DG	C5-C6-O6	-7.92	123.85	128.60
1	AA	7225	DT	O4'-C1'-C2'	-7.92	99.56	105.90
107	Bq	3	DG	N1-C6-O6	7.92	124.65	119.90
84	BT	6	DG	N1-C6-O6	7.92	124.65	119.90
156	Ct	31	DG	N1-C6-O6	7.92	124.65	119.90
1	AA	1094	DG	N1-C6-O6	7.92	124.65	119.90
3	A1	2	DG	C5-C6-O6	-7.92	123.85	128.60
35	AZ	12	DG	N1-C6-O6	7.92	124.65	119.90
150	Ch	14	DA	O4'-C1'-N9	7.92	113.54	108.00
1	AA	1918	DG	C5-C6-O6	-7.92	123.85	128.60
66	BB	43	DG	N1-C6-O6	7.92	124.65	119.90
152	Cp	48	DG	C5-C6-O6	-7.92	123.85	128.60
86	BV	9	DG	P-O3'-C3'	7.92	129.20	119.70
99	Bi	53	DC	P-O3'-C3'	7.92	129.20	119.70
30	AU	16	DG	C5-C6-O6	-7.91	123.85	128.60
37	Ac	31	DC	O4'-C1'-N1	7.91	113.54	108.00
43	Aj	16	DA	C5-C6-N6	-7.91	117.37	123.70
1	AA	2723	DG	C5-C6-O6	-7.91	123.85	128.60
1	AA	3841	DG	C5-C6-O6	-7.91	123.86	128.60
1	AA	2892	DG	C5-C6-O6	-7.91	123.86	128.60
1	AA	1924	DG	C5-C6-O6	-7.91	123.86	128.60
51	Av	13	DC	O4'-C4'-C3'	-7.91	101.26	106.00
78	BN	12	DG	N1-C6-O6	7.91	124.64	119.90
81	BQ	25	DG	N1-C6-O6	7.91	124.64	119.90
89	BY	15	DG	C5-C6-O6	-7.91	123.86	128.60
1	AA	1105	DG	N1-C6-O6	7.90	124.64	119.90
1	AA	1810	DG	C5-C6-O6	-7.90	123.86	128.60
133	CP	7	DG	N1-C6-O6	7.90	124.64	119.90
159	Cw	7	DG	C5-C6-O6	-7.90	123.86	128.60
31	AV	26	DC	O4'-C4'-C3'	-7.90	101.26	106.00
128	CK	15	DG	N1-C6-O6	7.90	124.64	119.90
100	Bj	2	DG	O4'-C4'-C3'	-7.90	101.26	106.00
1	AA	5205	DG	C5-C6-O6	-7.90	123.86	128.60
137	CT	3	DT	O4'-C1'-C2'	-7.90	99.58	105.90
1	AA	6464	DG	C5-C6-O6	-7.89	123.86	128.60
1	AA	6604	DG	C5-C6-O6	-7.89	123.86	128.60
47	An	7	DG	C5-C6-O6	-7.89	123.86	128.60
1	AA	3483	DG	C5-C6-O6	-7.89	123.86	128.60
60	B4	42	DT	O4'-C1'-C2'	-7.89	99.59	105.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
118	C8	36	DG	C5-C6-O6	-7.89	123.86	128.60
1	AA	4338	DG	C5-C6-O6	-7.89	123.87	128.60
7	A5	7	DG	C5-C6-O6	-7.89	123.87	128.60
1	AA	4407	DT	O4'-C4'-C3'	-7.89	101.27	106.00
1	AA	1086	DG	N1-C6-O6	7.89	124.63	119.90
30	AU	36	DA	C5-C6-N6	-7.89	117.39	123.70
124	CG	11	DT	O4'-C4'-C3'	-7.89	101.27	106.00
1	AA	903	DG	C5-C6-O6	-7.88	123.87	128.60
2	A0	13	DA	O4'-C1'-N9	7.88	113.52	108.00
12	AC	31	DG	C5-C6-O6	-7.88	123.87	128.60
1	AA	3057	DG	N1-C6-O6	7.88	124.63	119.90
1	AA	5287	DG	C5-C6-O6	-7.88	123.87	128.60
1	AA	345	DG	N1-C6-O6	7.88	124.63	119.90
1	AA	4798	DG	N1-C6-O6	7.88	124.62	119.90
1	AA	5661	DG	N1-C6-O6	7.88	124.62	119.90
61	B5	34	DG	N1-C6-O6	7.88	124.63	119.90
1	AA	5467	DG	N1-C6-O6	7.88	124.62	119.90
130	CM	15	DG	C5-C6-O6	-7.87	123.88	128.60
1	AA	34	DT	O4'-C4'-C3'	-7.87	101.28	106.00
1	AA	1467	DG	N1-C6-O6	7.87	124.62	119.90
1	AA	3566	DG	N1-C6-O6	7.87	124.62	119.90
1	AA	3853	DG	C5-C6-O6	-7.87	123.88	128.60
27	AR	58	DG	N1-C6-O6	7.87	124.62	119.90
102	Bl	15	DG	C5-C6-O6	-7.87	123.88	128.60
159	Cw	11	DG	N1-C6-O6	7.87	124.62	119.90
1	AA	724	DG	C5-C6-O6	-7.87	123.88	128.60
1	AA	2735	DG	N1-C6-O6	7.87	124.62	119.90
1	AA	1561	DG	C5-C6-O6	-7.86	123.88	128.60
37	Ac	35	DG	O4'-C1'-N9	7.86	113.50	108.00
62	B6	40	DG	C5-C6-O6	-7.86	123.88	128.60
1	AA	1108	DG	N1-C6-O6	7.86	124.62	119.90
1	AA	2189	DG	C5-C6-O6	-7.86	123.88	128.60
75	BK	28	DG	C5-C6-O6	-7.86	123.88	128.60
1	AA	5859	DA	O4'-C4'-C3'	-7.86	101.28	106.00
139	CV	2	DG	N1-C6-O6	7.86	124.61	119.90
1	AA	4924	DG	N1-C6-O6	7.86	124.61	119.90
1	AA	5062	DG	P-O3'-C3'	7.86	129.13	119.70
105	Bo	46	DG	C5-C6-O6	-7.86	123.89	128.60
137	CT	28	DA	C5-C6-N6	-7.86	117.41	123.70
1	AA	5795	DC	O4'-C1'-C2'	-7.86	99.61	105.90
106	Bp	33	DG	C5-C6-O6	-7.85	123.89	128.60
1	AA	3607	DC	O4'-C1'-N1	7.85	113.50	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6832	DC	C1'-O4'-C4'	-7.85	102.25	110.10
1	AA	757	DG	N1-C6-O6	7.85	124.61	119.90
53	Ax	24	DG	C5-C6-O6	-7.85	123.89	128.60
59	B3	6	DG	C5-C6-O6	-7.85	123.89	128.60
161	Cy	11	DG	C5-C6-O6	-7.85	123.89	128.60
4	A2	11	DG	C5-C6-O6	-7.85	123.89	128.60
7	A5	35	DG	C5-C6-O6	-7.85	123.89	128.60
143	CZ	1	DG	C5-C6-O6	-7.85	123.89	128.60
1	AA	3798	DG	C5-C6-O6	-7.85	123.89	128.60
1	AA	3933	DA	P-O3'-C3'	-7.85	110.28	119.70
74	BJ	4	DG	N1-C6-O6	7.85	124.61	119.90
1	AA	6717	DG	C5-C6-O6	-7.85	123.89	128.60
44	Ak	41	DA	O4'-C1'-N9	7.85	113.49	108.00
1	AA	1396	DC	P-O3'-C3'	7.84	129.11	119.70
1	AA	2664	DG	N1-C6-O6	7.84	124.61	119.90
1	AA	3069	DG	C5-C6-O6	-7.84	123.89	128.60
61	B5	4	DG	C5-C6-O6	-7.84	123.89	128.60
1	AA	3346	DA	P-O3'-C3'	7.84	129.11	119.70
68	BD	28	DG	N1-C6-O6	7.84	124.61	119.90
150	Ch	37	DA	P-O3'-C3'	7.84	129.11	119.70
1	AA	3822	DG	C5-C6-O6	-7.84	123.89	128.60
31	AV	42	DG	C5-C6-O6	-7.84	123.89	128.60
1	AA	3156	DG	C5-C6-O6	-7.84	123.90	128.60
106	Bp	40	DG	N1-C6-O6	7.84	124.60	119.90
52	Aw	16	DA	O4'-C1'-N9	7.83	113.48	108.00
55	Az	37	DG	N1-C6-O6	7.83	124.60	119.90
62	B6	5	DG	N1-C6-O6	7.83	124.60	119.90
1	AA	2891	DG	C5-C6-O6	-7.83	123.90	128.60
1	AA	6385	DG	N1-C6-O6	7.83	124.60	119.90
99	Bi	39	DG	O4'-C1'-C2'	-7.83	99.63	105.90
118	C8	6	DG	C5-C6-O6	-7.83	123.90	128.60
1	AA	4763	DC	O4'-C1'-N1	7.83	113.48	108.00
1	AA	5893	DG	C5-C6-O6	-7.83	123.90	128.60
44	Ak	5	DA	P-O3'-C3'	7.83	129.10	119.70
124	CG	22	DG	C5-C6-O6	-7.83	123.90	128.60
126	CI	19	DA	P-O3'-C3'	7.83	129.10	119.70
1	AA	5398	DG	C5-C6-O6	-7.83	123.90	128.60
59	B3	47	DC	O4'-C1'-N1	7.83	113.48	108.00
90	BZ	25	DG	C5-C6-O6	-7.83	123.90	128.60
1	AA	1911	DC	O4'-C4'-C3'	-7.83	101.30	106.00
1	AA	6173	DG	C5-C6-O6	-7.83	123.90	128.60
30	AU	43	DG	C5-C6-O6	-7.83	123.90	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1952	DT	P-O3'-C3'	7.83	129.09	119.70
112	C2	39	DG	C5-C6-O6	-7.83	123.91	128.60
128	CK	34	DG	C5-C6-O6	-7.83	123.90	128.60
1	AA	3385	DG	C5-C6-O6	-7.82	123.91	128.60
1	AA	4124	DG	C5-C6-O6	-7.82	123.91	128.60
1	AA	4700	DG	N1-C6-O6	7.82	124.59	119.90
1	AA	5776	DG	N1-C6-O6	7.82	124.59	119.90
28	AS	38	DA	P-O3'-C3'	7.82	129.09	119.70
43	Aj	62	DG	N1-C6-O6	7.82	124.59	119.90
18	AI	34	DG	C5-C6-O6	-7.82	123.91	128.60
137	CT	42	DG	C5-C6-O6	-7.82	123.91	128.60
144	Cb	42	DT	O4'-C4'-C3'	-7.82	101.31	106.00
1	AA	1243	DG	O4'-C4'-C3'	-7.82	101.31	106.00
1	AA	5812	DA	C5-C6-N6	-7.82	117.44	123.70
18	AI	6	DG	C5-C6-O6	-7.82	123.91	128.60
76	BL	44	DA	C5-C6-N6	-7.82	117.44	123.70
77	BM	45	DG	C5-C6-O6	-7.82	123.91	128.60
83	BS	21	DG	C5-C6-O6	-7.82	123.91	128.60
127	CJ	52	DG	N1-C6-O6	7.82	124.59	119.90
37	Ac	53	DG	C5-C6-O6	-7.81	123.91	128.60
1	AA	2936	DG	C5-C6-O6	-7.81	123.91	128.60
1	AA	5469	DG	C5-C6-O6	-7.81	123.91	128.60
39	Af	26	DA	P-O3'-C3'	7.81	129.08	119.70
144	Cb	13	DG	C5-C6-O6	-7.81	123.91	128.60
5	A3	10	DG	C5-C6-O6	-7.81	123.91	128.60
76	BL	30	DG	C5-C6-O6	-7.81	123.91	128.60
1	AA	6307	DG	C5-C6-O6	-7.81	123.91	128.60
1	AA	6738	DG	C1'-O4'-C4'	-7.81	102.29	110.10
20	AK	49	DG	N1-C6-O6	7.81	124.59	119.90
68	BD	34	DG	O4'-C1'-N9	7.81	113.47	108.00
69	BE	2	DG	C5-C6-O6	-7.81	123.91	128.60
137	CT	18	DG	N1-C6-O6	7.81	124.59	119.90
5	A3	17	DG	C5-C6-O6	-7.81	123.92	128.60
104	Bn	14	DT	O4'-C1'-C2'	-7.81	99.66	105.90
113	C3	15	DG	C5-C6-O6	-7.81	123.92	128.60
1	AA	4056	DG	C5-C6-O6	-7.80	123.92	128.60
1	AA	5487	DG	C5-C6-O6	-7.80	123.92	128.60
1	AA	2885	DG	C5-C6-O6	-7.80	123.92	128.60
1	AA	4865	DG	N1-C6-O6	7.80	124.58	119.90
118	C8	44	DG	N1-C6-O6	7.80	124.58	119.90
1	AA	6213	DC	O4'-C4'-C3'	-7.80	101.32	106.00
78	BN	58	DG	C5-C6-O6	-7.80	123.92	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
113	C3	42	DG	O4'-C4'-C3'	-7.80	101.32	106.00
145	Cc	27	DA	P-O3'-C3'	7.80	129.06	119.70
12	AC	10	DG	C5-C6-O6	-7.80	123.92	128.60
129	CL	19	DG	C5-C6-O6	-7.80	123.92	128.60
49	As	26	DA	O4'-C4'-C3'	-7.79	101.32	106.00
1	AA	1939	DG	C5-C6-O6	-7.79	123.92	128.60
88	BX	36	DG	N1-C6-O6	7.79	124.58	119.90
1	AA	6367	DG	C5-C6-O6	-7.79	123.92	128.60
31	AV	15	DG	C5-C6-O6	-7.79	123.92	128.60
45	Al	7	DG	C5-C6-O6	-7.79	123.92	128.60
56	B0	45	DG	C5-C6-O6	-7.79	123.92	128.60
155	Cs	14	DG	C5-C6-O6	-7.79	123.93	128.60
1	AA	16	DC	O4'-C1'-N1	7.79	113.45	108.00
1	AA	5967	DA	C5-C6-N6	-7.79	117.47	123.70
49	As	42	DG	N1-C6-O6	7.79	124.57	119.90
125	CH	8	DG	C5-C6-O6	-7.79	123.93	128.60
95	Be	22	DC	P-O3'-C3'	7.79	129.04	119.70
1	AA	4474	DG	N1-C6-O6	7.79	124.57	119.90
1	AA	5830	DG	C5-C6-O6	-7.79	123.93	128.60
3	A1	17	DT	O4'-C4'-C3'	-7.79	101.33	106.00
127	CJ	22	DA	P-O3'-C3'	7.79	129.04	119.70
1	AA	4444	DG	C5-C6-O6	-7.78	123.93	128.60
1	AA	4980	DG	C5-C6-O6	-7.78	123.93	128.60
9	A7	41	DC	O4'-C1'-N1	7.78	113.45	108.00
96	Bf	37	DC	O4'-C1'-N1	7.78	113.45	108.00
159	Cw	17	DC	O4'-C1'-C2'	-7.78	99.67	105.90
1	AA	3033	DG	N1-C6-O6	7.78	124.57	119.90
1	AA	719	DG	C5-C6-O6	-7.78	123.93	128.60
25	AP	26	DG	C5-C6-O6	-7.78	123.93	128.60
81	BQ	39	DT	O4'-C1'-N1	7.78	113.44	108.00
152	Cp	21	DG	N1-C6-O6	7.78	124.57	119.90
1	AA	2252	DG	C5-C6-O6	-7.78	123.94	128.60
1	AA	4767	DG	C5-C6-O6	-7.78	123.94	128.60
1	AA	7238	DG	C5-C6-O6	-7.78	123.93	128.60
34	AY	18	DC	O4'-C1'-N1	7.77	113.44	108.00
126	CI	5	DG	C5-C6-O6	-7.77	123.94	128.60
1	AA	6652	DA	P-O3'-C3'	7.77	129.03	119.70
1	AA	1243	DG	C5-C6-O6	-7.77	123.94	128.60
56	B0	10	DG	O4'-C1'-C2'	-7.77	99.68	105.90
1	AA	2760	DG	N1-C6-O6	7.77	124.56	119.90
1	AA	5826	DG	C5-C6-O6	-7.77	123.94	128.60
75	BK	4	DA	C5-C6-N6	-7.77	117.49	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
145	Cc	33	DG	C5-C6-O6	-7.77	123.94	128.60
92	Bb	1	DG	P-O3'-C3'	7.76	129.02	119.70
124	CG	14	DG	C5-C6-O6	-7.76	123.94	128.60
1	AA	1807	DC	O4'-C1'-C2'	-7.76	99.69	105.90
1	AA	3036	DG	C5-C6-O6	-7.76	123.94	128.60
162	Cz	16	DG	C5-C6-O6	-7.76	123.94	128.60
1	AA	4926	DG	N1-C6-O6	7.76	124.56	119.90
16	AG	46	DG	N1-C6-O6	7.76	124.56	119.90
4	A2	45	DA	C5-C6-N6	-7.76	117.50	123.70
26	AQ	17	DG	C5-C6-O6	-7.76	123.95	128.60
36	Ab	25	DG	N1-C6-O6	7.75	124.55	119.90
1	AA	3369	DG	C5-C6-O6	-7.75	123.95	128.60
1	AA	3768	DT	O4'-C4'-C3'	-7.75	101.35	106.00
56	B0	15	DG	C5-C6-O6	-7.75	123.95	128.60
1	AA	999	DG	O4'-C1'-C2'	-7.75	99.70	105.90
1	AA	1919	DC	O4'-C1'-C2'	-7.75	99.70	105.90
58	B2	4	DA	O4'-C1'-N9	7.75	113.43	108.00
71	BG	1	DA	O4'-C1'-N9	7.75	113.43	108.00
161	Cy	7	DG	N1-C6-O6	7.75	124.55	119.90
1	AA	5010	DG	C5-C6-O6	-7.75	123.95	128.60
1	AA	1794	DG	C5-C6-O6	-7.75	123.95	128.60
8	A6	33	DC	O4'-C1'-N1	7.75	113.42	108.00
1	AA	1315	DC	O4'-C4'-C3'	-7.75	101.35	106.00
1	AA	5253	DG	C5-C6-O6	-7.74	123.95	128.60
1	AA	6040	DG	C5-C6-O6	-7.74	123.95	128.60
1	AA	7219	DG	C5-C6-O6	-7.74	123.95	128.60
46	Am	22	DG	N1-C6-O6	7.74	124.55	119.90
117	C7	1	DG	C5-C6-O6	-7.74	123.95	128.60
1	AA	3419	DG	C5-C6-O6	-7.74	123.95	128.60
1	AA	4002	DG	C5-C6-O6	-7.74	123.95	128.60
28	AS	29	DC	O4'-C1'-N1	7.74	113.42	108.00
1	AA	1438	DG	N1-C6-O6	7.74	124.54	119.90
1	AA	5182	DG	C5-C6-O6	-7.74	123.96	128.60
45	Al	3	DA	O4'-C1'-N9	7.74	113.42	108.00
48	Ao	30	DT	O4'-C1'-C2'	-7.74	99.71	105.90
118	C8	42	DG	N1-C6-O6	7.74	124.54	119.90
1	AA	648	DG	P-O3'-C3'	7.74	128.98	119.70
1	AA	5736	DG	C5-C6-O6	-7.74	123.96	128.60
5	A3	2	DG	C5-C6-O6	-7.74	123.96	128.60
33	AX	10	DG	C5-C6-O6	-7.74	123.96	128.60
60	B4	9	DC	O4'-C1'-N1	7.74	113.42	108.00
141	CX	46	DG	O4'-C1'-N9	7.74	113.42	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5867	DC	O4'-C1'-C2'	-7.73	99.71	105.90
137	CT	42	DG	O4'-C4'-C3'	-7.73	101.36	106.00
1	AA	5298	DG	C5-C6-O6	-7.73	123.96	128.60
106	Bp	30	DG	O4'-C1'-C2'	-7.73	99.71	105.90
1	AA	1163	DG	C5-C6-O6	-7.73	123.96	128.60
1	AA	3771	DG	C5-C6-O6	-7.73	123.96	128.60
151	Ck	33	DG	C5-C6-O6	-7.73	123.96	128.60
152	Cp	35	DG	C5-C6-O6	-7.73	123.96	128.60
1	AA	2888	DG	C5-C6-O6	-7.73	123.96	128.60
150	Ch	4	DG	N1-C6-O6	7.73	124.54	119.90
95	Be	1	DG	C5-C6-O6	-7.73	123.97	128.60
1	AA	3111	DG	C5-C6-O6	-7.72	123.97	128.60
9	A7	39	DG	C5-C6-O6	-7.72	123.97	128.60
1	AA	2764	DG	C5-C6-O6	-7.72	123.97	128.60
1	AA	6043	DG	C5-C6-O6	-7.72	123.97	128.60
91	Ba	6	DG	C5-C6-O6	-7.72	123.97	128.60
159	Cw	25	DG	O4'-C1'-N9	7.72	113.41	108.00
1	AA	5733	DA	C5-C6-N6	-7.72	117.53	123.70
5	A3	15	DT	O4'-C1'-C2'	-7.72	99.72	105.90
1	AA	6595	DG	C5-C6-O6	-7.72	123.97	128.60
1	AA	333	DG	P-O3'-C3'	7.72	128.96	119.70
1	AA	1570	DG	C5-C6-O6	-7.72	123.97	128.60
1	AA	3013	DG	C5-C6-O6	-7.72	123.97	128.60
1	AA	3748	DG	C5-C6-O6	-7.72	123.97	128.60
1	AA	4385	DG	C5-C6-O6	-7.72	123.97	128.60
19	AJ	13	DG	C5-C6-O6	-7.72	123.97	128.60
158	Cv	7	DT	O4'-C4'-C3'	-7.71	101.37	106.00
1	AA	5178	DG	C5-C6-O6	-7.71	123.97	128.60
28	AS	29	DC	P-O3'-C3'	7.71	128.95	119.70
116	C6	37	DG	C5-C6-O6	-7.71	123.97	128.60
122	CE	32	DA	P-O3'-C3'	7.71	128.95	119.70
1	AA	2759	DA	O4'-C4'-C3'	-7.71	101.37	106.00
1	AA	2985	DG	C5-C6-O6	-7.71	123.97	128.60
103	Bm	29	DG	C5-C6-O6	-7.71	123.97	128.60
143	CZ	11	DG	C5-C6-O6	-7.71	123.97	128.60
1	AA	5352	DG	C5-C6-O6	-7.71	123.98	128.60
129	CL	21	DG	C5-C6-O6	-7.71	123.98	128.60
30	AU	10	DG	C5-C6-O6	-7.71	123.98	128.60
1	AA	1288	DG	C5-C6-O6	-7.70	123.98	128.60
1	AA	1451	DG	C1'-O4'-C4'	-7.70	102.40	110.10
1	AA	4747	DG	C5-C6-O6	-7.70	123.98	128.60
19	AJ	32	DA	O4'-C4'-C3'	-7.70	101.38	106.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3350	DG	C5-C6-O6	-7.70	123.98	128.60
1	AA	5322	DG	C5-C6-O6	-7.70	123.98	128.60
104	Bn	24	DG	C5-C6-O6	-7.70	123.98	128.60
105	Bo	14	DT	O4'-C4'-C3'	-7.70	101.38	106.00
1	AA	4224	DG	C5-C6-O6	-7.70	123.98	128.60
18	AI	19	DC	O4'-C1'-N1	7.70	113.39	108.00
1	AA	926	DG	C5-C6-O6	-7.70	123.98	128.60
1	AA	4910	DG	C5-C6-O6	-7.70	123.98	128.60
4	A2	5	DC	O4'-C1'-N1	7.70	113.39	108.00
83	BS	24	DG	C5-C6-O6	-7.70	123.98	128.60
1	AA	3653	DT	P-O3'-C3'	7.69	128.93	119.70
132	CO	47	DG	O4'-C1'-N9	7.69	113.39	108.00
137	CT	11	DT	O4'-C1'-C2'	-7.69	99.75	105.90
48	Ao	25	DG	C5-C6-O6	-7.69	123.99	128.60
99	Bi	28	DG	C5-C6-O6	-7.69	123.98	128.60
140	CW	35	DG	O4'-C1'-N9	7.69	113.38	108.00
1	AA	7004	DG	C5-C6-O6	-7.69	123.99	128.60
25	AP	33	DG	C5-C6-O6	-7.69	123.99	128.60
45	Al	41	DG	C5-C6-O6	-7.69	123.99	128.60
121	CD	8	DG	C5-C6-O6	-7.69	123.99	128.60
1	AA	4449	DC	O4'-C1'-C2'	-7.68	99.75	105.90
12	AC	46	DG	C5-C6-O6	-7.68	123.99	128.60
115	C5	30	DG	C5-C6-O6	-7.68	123.99	128.60
149	Cg	43	DA	P-O3'-C3'	7.68	128.92	119.70
92	Bb	64	DA	P-O3'-C3'	7.68	128.92	119.70
1	AA	3967	DA	P-O3'-C3'	7.68	128.91	119.70
9	A7	6	DG	C5-C6-O6	-7.68	123.99	128.60
1	AA	3004	DG	C5-C6-O6	-7.68	123.99	128.60
1	AA	6416	DG	C5-C6-O6	-7.68	123.99	128.60
1	AA	504	DG	C5-C6-O6	-7.68	124.00	128.60
1	AA	6480	DT	O4'-C1'-N1	7.68	113.37	108.00
30	AU	35	DC	P-O3'-C3'	7.68	128.91	119.70
39	Af	34	DA	P-O3'-C3'	7.68	128.91	119.70
44	Ak	25	DG	C5-C6-O6	-7.68	123.99	128.60
124	CG	19	DC	C1'-O4'-C4'	-7.68	102.42	110.10
1	AA	3380	DG	C5-C6-O6	-7.67	124.00	128.60
1	AA	4502	DG	C5-C6-O6	-7.67	124.00	128.60
39	Af	29	DA	O4'-C1'-N9	7.67	113.37	108.00
142	CY	16	DA	P-O3'-C3'	7.67	128.91	119.70
1	AA	33	DG	O4'-C1'-C2'	-7.67	99.76	105.90
1	AA	972	DG	N1-C6-O6	7.67	124.50	119.90
146	Cd	22	DG	C5-C6-O6	-7.67	124.00	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	AQ	53	DC	O4'-C1'-N1	7.67	113.37	108.00
1	AA	2216	DG	O4'-C4'-C3'	-7.67	101.40	106.00
1	AA	3479	DG	C5-C6-O6	-7.67	124.00	128.60
1	AA	4423	DG	C5-C6-O6	-7.67	124.00	128.60
1	AA	5929	DG	C5-C6-O6	-7.67	124.00	128.60
29	AT	40	DG	C5-C6-O6	-7.67	124.00	128.60
160	Cx	1	DA	O4'-C4'-C3'	-7.67	101.40	106.00
1	AA	1938	DG	C5-C6-O6	-7.67	124.00	128.60
1	AA	4044	DG	C5-C6-O6	-7.67	124.00	128.60
1	AA	6468	DG	C5-C6-O6	-7.67	124.00	128.60
127	CJ	49	DG	N1-C6-O6	7.67	124.50	119.90
1	AA	6342	DG	C5-C6-O6	-7.67	124.00	128.60
126	CI	7	DC	O4'-C1'-C2'	-7.67	99.77	105.90
1	AA	6490	DG	C5-C6-O6	-7.66	124.00	128.60
66	BB	28	DG	C5-C6-O6	-7.66	124.00	128.60
151	Ck	20	DG	P-O3'-C3'	7.66	128.90	119.70
1	AA	2117	DG	C5-C6-O6	-7.66	124.00	128.60
1	AA	3897	DG	C5-C6-O6	-7.66	124.00	128.60
4	A2	19	DG	C5-C6-O6	-7.66	124.00	128.60
86	BV	26	DC	O4'-C1'-C2'	-7.66	99.77	105.90
13	AD	16	DG	C5-C6-O6	-7.66	124.00	128.60
36	Ab	4	DG	C5-C6-O6	-7.66	124.00	128.60
144	Cb	10	DG	N1-C6-O6	7.66	124.50	119.90
1	AA	573	DA	O4'-C4'-C3'	-7.66	101.40	106.00
1	AA	656	DG	C5-C6-O6	-7.66	124.00	128.60
1	AA	3428	DT	P-O3'-C3'	7.66	128.89	119.70
1	AA	4577	DG	C5-C6-O6	-7.66	124.01	128.60
1	AA	4961	DG	C5-C6-O6	-7.66	124.01	128.60
33	AX	39	DA	C5-C6-N6	-7.66	117.58	123.70
121	CD	11	DG	C5-C6-O6	-7.66	124.01	128.60
126	CI	34	DG	C5-C6-O6	-7.66	124.01	128.60
1	AA	33	DG	C5-C6-O6	-7.65	124.01	128.60
1	AA	4825	DG	N1-C6-O6	7.65	124.49	119.90
1	AA	5136	DG	C5-C6-O6	-7.65	124.01	128.60
51	Av	30	DG	O4'-C4'-C3'	-7.65	101.41	106.00
1	AA	2026	DG	C5-C6-O6	-7.65	124.01	128.60
1	AA	2846	DG	C5-C6-O6	-7.65	124.01	128.60
1	AA	6579	DG	C5-C6-O6	-7.65	124.01	128.60
39	Af	25	DG	N1-C6-O6	7.65	124.49	119.90
117	C7	50	DG	C5-C6-O6	-7.65	124.01	128.60
1	AA	30	DG	C5-C6-O6	-7.65	124.01	128.60
1	AA	1637	DG	C5-C6-O6	-7.65	124.01	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3400	DG	C5-C6-O6	-7.65	124.01	128.60
1	AA	7028	DG	C5-C6-O6	-7.65	124.01	128.60
1	AA	7193	DC	N3-C4-N4	7.65	123.36	118.00
92	Bb	45	DG	C5-C6-O6	-7.65	124.01	128.60
92	Bb	67	DG	C5-C6-O6	-7.65	124.01	128.60
129	CL	48	DA	O4'-C1'-N9	7.65	113.36	108.00
1	AA	1423	DG	N1-C6-O6	7.65	124.49	119.90
1	AA	1604	DG	C5-C6-O6	-7.65	124.01	128.60
1	AA	3302	DG	C5-C6-O6	-7.65	124.01	128.60
129	CL	4	DG	C5-C6-O6	-7.65	124.01	128.60
1	AA	4584	DG	C5-C6-O6	-7.65	124.01	128.60
1	AA	6463	DG	C5-C6-O6	-7.65	124.01	128.60
62	B6	29	DG	C5-C6-O6	-7.65	124.01	128.60
31	AV	39	DG	C5-C6-O6	-7.64	124.01	128.60
1	AA	5303	DG	C5-C6-O6	-7.64	124.02	128.60
1	AA	5545	DA	C1'-O4'-C4'	-7.64	102.46	110.10
1	AA	5565	DG	C5-C6-O6	-7.64	124.02	128.60
3	A1	35	DT	C1'-O4'-C4'	-7.64	102.46	110.10
69	BE	28	DG	C5-C6-O6	-7.64	124.01	128.60
1	AA	1493	DG	C5-C6-O6	-7.64	124.02	128.60
45	Al	13	DG	C5-C6-O6	-7.64	124.02	128.60
1	AA	219	DG	C5-C6-O6	-7.64	124.02	128.60
1	AA	3352	DG	C5-C6-O6	-7.64	124.02	128.60
1	AA	6421	DG	C5-C6-O6	-7.64	124.02	128.60
53	Ax	13	DG	C5-C6-O6	-7.64	124.02	128.60
61	B5	33	DC	O4'-C1'-N1	7.64	113.35	108.00
1	AA	6549	DG	C5-C6-O6	-7.64	124.02	128.60
157	Cu	49	DG	C5-C6-O6	-7.64	124.02	128.60
16	AG	27	DG	C5-C6-O6	-7.64	124.02	128.60
124	CG	41	DG	O4'-C1'-C2'	-7.64	99.79	105.90
1	AA	3291	DG	C5-C6-O6	-7.63	124.02	128.60
18	AI	28	DG	C5-C6-O6	-7.63	124.02	128.60
91	Ba	11	DG	C5-C6-O6	-7.63	124.02	128.60
117	C7	46	DA	C1'-O4'-C4'	-7.63	102.47	110.10
1	AA	2290	DG	P-O3'-C3'	7.63	128.85	119.70
1	AA	3399	DG	N1-C6-O6	7.63	124.48	119.90
76	BL	30	DG	O4'-C4'-C3'	-7.63	101.42	106.00
157	Cu	57	DG	C5-C6-O6	-7.63	124.02	128.60
1	AA	6895	DG	C5-C6-O6	-7.63	124.02	128.60
58	B2	10	DG	C5-C6-O6	-7.63	124.02	128.60
60	B4	15	DA	O4'-C1'-N9	7.63	113.34	108.00
70	BF	4	DG	C5-C6-O6	-7.63	124.02	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
46	Am	24	DC	O4'-C1'-N1	7.62	113.34	108.00
107	Bq	6	DG	C5-C6-O6	-7.62	124.03	128.60
54	Ay	15	DG	C5-C6-O6	-7.62	124.03	128.60
1	AA	3393	DG	C5-C6-O6	-7.62	124.03	128.60
1	AA	6412	DG	C5-C6-O6	-7.62	124.03	128.60
1	AA	6928	DG	C5-C6-O6	-7.62	124.03	128.60
1	AA	6938	DT	O4'-C4'-C3'	-7.62	101.43	106.00
18	AI	27	DC	O4'-C1'-N1	7.62	113.33	108.00
38	Ad	47	DG	C5-C6-O6	-7.62	124.03	128.60
48	Ao	2	DG	C5-C6-O6	-7.62	124.03	128.60
76	BL	24	DG	C5-C6-O6	-7.62	124.03	128.60
144	Cb	31	DA	C5-C6-N6	-7.62	117.60	123.70
1	AA	5016	DG	C5-C6-O6	-7.62	124.03	128.60
147	Ce	12	DA	C5-C6-N6	-7.62	117.60	123.70
1	AA	2645	DA	C5-C6-N6	-7.62	117.61	123.70
44	Ak	39	DG	C5-C6-O6	-7.62	124.03	128.60
1	AA	1691	DC	O4'-C1'-C2'	-7.62	99.81	105.90
42	Ai	23	DG	C5-C6-O6	-7.62	124.03	128.60
1	AA	4292	DG	C5-C6-O6	-7.62	124.03	128.60
1	AA	5049	DG	C5-C6-O6	-7.62	124.03	128.60
12	AC	47	DG	C5-C6-O6	-7.62	124.03	128.60
1	AA	6082	DT	P-O3'-C3'	7.61	128.84	119.70
67	BC	21	DG	C5-C6-O6	-7.61	124.03	128.60
58	B2	13	DG	C5-C6-O6	-7.61	124.03	128.60
1	AA	378	DG	C5-C6-O6	-7.61	124.03	128.60
1	AA	465	DT	O4'-C1'-C2'	-7.61	99.81	105.90
1	AA	2463	DG	C5-C6-O6	-7.61	124.03	128.60
109	Bs	46	DG	C5-C6-O6	-7.61	124.04	128.60
1	AA	153	DT	O4'-C1'-C2'	-7.61	99.82	105.90
1	AA	1413	DG	C5-C6-O6	-7.61	124.04	128.60
33	AX	36	DC	O4'-C1'-C2'	-7.61	99.82	105.90
115	C5	52	DT	P-O3'-C3'	7.61	128.83	119.70
1	AA	3577	DG	C5-C6-O6	-7.60	124.04	128.60
1	AA	4514	DG	C5-C6-O6	-7.60	124.04	128.60
1	AA	6220	DG	C5-C6-O6	-7.60	124.04	128.60
1	AA	18	DC	P-O3'-C3'	7.60	128.81	119.70
118	C8	10	DG	C5-C6-O6	-7.60	124.04	128.60
1	AA	5769	DG	C5-C6-O6	-7.59	124.04	128.60
25	AP	26	DG	O4'-C4'-C3'	-7.59	101.44	106.00
119	CB	39	DT	O4'-C1'-C2'	-7.59	99.83	105.90
137	CT	11	DT	O4'-C4'-C3'	-7.59	101.44	106.00
1	AA	1903	DG	O4'-C4'-C3'	-7.59	101.44	106.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	Ag	3	DC	O4'-C1'-N1	7.59	113.31	108.00
122	CE	1	DG	C5-C6-O6	-7.59	124.05	128.60
1	AA	24	DG	C5-C6-O6	-7.59	124.05	128.60
1	AA	3363	DG	C5-C6-O6	-7.59	124.05	128.60
13	AD	14	DG	C5-C6-O6	-7.59	124.05	128.60
1	AA	6952	DG	C5-C6-O6	-7.59	124.05	128.60
1	AA	7127	DG	C5-C6-O6	-7.59	124.05	128.60
50	Au	7	DG	C5-C6-O6	-7.59	124.05	128.60
79	BO	10	DG	C5-C6-O6	-7.58	124.05	128.60
1	AA	3901	DG	C5-C6-O6	-7.58	124.05	128.60
1	AA	6334	DG	C5-C6-O6	-7.58	124.05	128.60
83	BS	25	DG	C5-C6-O6	-7.58	124.05	128.60
123	CF	11	DG	C5-C6-O6	-7.58	124.05	128.60
142	CY	32	DG	C5-C6-O6	-7.58	124.05	128.60
1	AA	2978	DA	P-O3'-C3'	7.58	128.80	119.70
1	AA	4628	DG	C5-C6-O6	-7.58	124.05	128.60
1	AA	4003	DG	C5-C6-O6	-7.58	124.05	128.60
1	AA	7193	DC	O4'-C4'-C3'	-7.58	101.45	106.00
49	As	7	DG	C5-C6-O6	-7.58	124.05	128.60
1	AA	1713	DT	O4'-C1'-N1	7.58	113.30	108.00
1	AA	2727	DG	C5-C6-O6	-7.58	124.05	128.60
76	BL	16	DG	C5-C6-O6	-7.58	124.05	128.60
43	Aj	17	DA	O4'-C1'-N9	7.57	113.30	108.00
147	Ce	10	DT	O4'-C1'-C2'	-7.57	99.84	105.90
8	A6	35	DG	P-O3'-C3'	7.57	128.79	119.70
144	Cb	6	DG	C5-C6-O6	-7.57	124.06	128.60
1	AA	6111	DG	C5-C6-O6	-7.57	124.06	128.60
52	Aw	37	DG	C5-C6-O6	-7.57	124.06	128.60
86	BV	39	DC	O4'-C1'-N1	7.57	113.30	108.00
118	C8	32	DA	C5-C6-N6	-7.57	117.64	123.70
1	AA	4609	DT	O4'-C1'-N1	7.57	113.30	108.00
1	AA	5658	DG	O4'-C4'-C3'	-7.57	101.46	106.00
58	B2	26	DG	C5-C6-O6	-7.57	124.06	128.60
15	AF	13	DG	C5-C6-O6	-7.56	124.06	128.60
40	Ag	4	DG	C5-C6-O6	-7.56	124.06	128.60
1	AA	2745	DG	C5-C6-O6	-7.56	124.06	128.60
1	AA	4288	DT	O4'-C1'-C2'	-7.56	99.85	105.90
47	An	12	DG	C5-C6-O6	-7.56	124.06	128.60
1	AA	1906	DG	C5-C6-O6	-7.56	124.06	128.60
1	AA	2391	DC	O4'-C4'-C3'	-7.56	101.46	106.00
137	CT	37	DG	C5-C6-O6	-7.56	124.06	128.60
1	AA	1737	DG	N1-C6-O6	7.56	124.44	119.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	7220	DG	C5-C6-O6	-7.56	124.06	128.60
26	AQ	46	DG	O4'-C1'-C2'	-7.56	99.85	105.90
42	Ai	14	DG	P-O3'-C3'	7.56	128.77	119.70
1	AA	717	DT	O4'-C4'-C3'	-7.56	101.47	106.00
1	AA	565	DC	O4'-C4'-C3'	-7.56	101.47	106.00
1	AA	4359	DG	C5-C6-O6	-7.56	124.07	128.60
1	AA	663	DC	O4'-C1'-C2'	-7.55	99.86	105.90
92	Bb	8	DC	O4'-C1'-N1	7.55	113.29	108.00
1	AA	2	DG	C5-C6-O6	-7.55	124.07	128.60
1	AA	952	DG	C5-C6-O6	-7.55	124.07	128.60
18	AI	30	DG	O4'-C1'-N9	7.55	113.29	108.00
1	AA	3397	DG	C5-C6-O6	-7.55	124.07	128.60
1	AA	3402	DG	C5-C6-O6	-7.55	124.07	128.60
35	AZ	49	DG	C5-C6-O6	-7.55	124.07	128.60
133	CP	5	DA	P-O3'-C3'	7.55	128.76	119.70
1	AA	2143	DG	C5-C6-O6	-7.55	124.07	128.60
16	AG	40	DG	C5-C6-O6	-7.55	124.07	128.60
46	Am	31	DG	O4'-C4'-C3'	-7.55	101.47	106.00
1	AA	4449	DC	O4'-C4'-C3'	-7.54	101.47	106.00
1	AA	3171	DG	C5-C6-O6	-7.54	124.07	128.60
126	CI	21	DG	C5-C6-O6	-7.54	124.07	128.60
1	AA	1451	DG	N1-C6-O6	7.54	124.42	119.90
1	AA	6888	DG	O4'-C1'-C2'	-7.54	99.87	105.90
71	BG	6	DG	P-O3'-C3'	7.54	128.75	119.70
78	BN	62	DG	C5-C6-O6	-7.54	124.08	128.60
1	AA	6445	DG	C5-C6-O6	-7.54	124.08	128.60
1	AA	6718	DG	C5-C6-O6	-7.54	124.08	128.60
76	BL	43	DG	C5-C6-O6	-7.54	124.08	128.60
1	AA	5627	DC	O4'-C4'-C3'	-7.54	101.48	106.00
1	AA	3534	DC	P-O3'-C3'	7.53	128.74	119.70
1	AA	7011	DG	C5-C6-O6	-7.53	124.08	128.60
44	Ak	23	DG	C5-C6-O6	-7.53	124.08	128.60
97	Bg	8	DG	C5-C6-O6	-7.53	124.08	128.60
160	Cx	1	DA	O4'-C1'-N9	7.53	113.27	108.00
1	AA	1999	DG	C5-C6-O6	-7.53	124.08	128.60
1	AA	6927	DC	O4'-C1'-N1	7.53	113.27	108.00
10	A8	7	DG	O4'-C4'-C3'	-7.53	101.48	106.00
1	AA	3417	DG	C5-C6-O6	-7.53	124.08	128.60
1	AA	3813	DG	C5-C6-O6	-7.53	124.08	128.60
1	AA	4603	DG	C5-C6-O6	-7.53	124.08	128.60
24	AO	14	DC	O4'-C1'-N1	7.53	113.27	108.00
94	Bd	10	DG	C5-C6-O6	-7.53	124.08	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
147	Ce	45	DG	C5-C6-O6	-7.53	124.08	128.60
161	Cy	35	DG	C5-C6-O6	-7.53	124.08	128.60
162	Cz	39	DG	C5-C6-O6	-7.53	124.08	128.60
1	AA	1819	DG	C5-C6-O6	-7.53	124.08	128.60
105	Bo	26	DG	C5-C6-O6	-7.53	124.08	128.60
161	Cy	63	DG	C5-C6-O6	-7.53	124.08	128.60
94	Bd	8	DG	C5-C6-O6	-7.52	124.09	128.60
109	Bs	1	DG	C5-C6-O6	-7.52	124.09	128.60
153	Cq	18	DG	C5-C6-O6	-7.52	124.09	128.60
1	AA	369	DA	O4'-C4'-C3'	-7.52	101.49	106.00
1	AA	2290	DG	C5-C6-O6	-7.52	124.09	128.60
1	AA	2882	DG	C5-C6-O6	-7.52	124.09	128.60
27	AR	53	DC	O4'-C4'-C3'	-7.52	101.49	106.00
34	AY	14	DG	C5-C6-O6	-7.52	124.09	128.60
128	CK	37	DG	C5-C6-O6	-7.52	124.09	128.60
1	AA	2692	DG	C5-C6-O6	-7.52	124.09	128.60
45	Al	26	DT	P-O5'-C5'	7.52	132.93	120.90
1	AA	116	DG	C5-C6-O6	-7.52	124.09	128.60
1	AA	3900	DG	C5-C6-O6	-7.52	124.09	128.60
1	AA	6920	DC	O4'-C1'-N1	7.52	113.26	108.00
51	Av	12	DG	C5-C6-O6	-7.52	124.09	128.60
55	Az	5	DA	P-O3'-C3'	7.52	128.72	119.70
143	CZ	10	DG	N1-C6-O6	7.52	124.41	119.90
1	AA	923	DG	C5-C6-O6	-7.52	124.09	128.60
1	AA	4343	DC	N3-C4-N4	7.52	123.26	118.00
1	AA	4376	DG	C5-C6-O6	-7.52	124.09	128.60
1	AA	5256	DG	C5-C6-O6	-7.52	124.09	128.60
51	Av	13	DC	P-O3'-C3'	7.52	128.72	119.70
1	AA	730	DG	C5-C6-O6	-7.52	124.09	128.60
1	AA	5070	DA	P-O5'-C5'	7.52	132.93	120.90
55	Az	26	DG	C5-C6-O6	-7.52	124.09	128.60
1	AA	4218	DG	C5-C6-O6	-7.51	124.09	128.60
1	AA	4609	DT	C1'-O4'-C4'	-7.51	102.58	110.10
121	CD	12	DG	C5-C6-O6	-7.51	124.09	128.60
1	AA	671	DG	C5-C6-O6	-7.51	124.09	128.60
1	AA	1497	DG	C5-C6-O6	-7.51	124.09	128.60
1	AA	1865	DG	C5-C6-O6	-7.51	124.09	128.60
1	AA	6159	DA	O4'-C1'-N9	7.51	113.26	108.00
137	CT	25	DA	O4'-C1'-C2'	-7.51	99.89	105.90
1	AA	945	DA	O4'-C4'-C3'	-7.51	101.49	106.00
1	AA	5344	DG	C5-C6-O6	-7.51	124.09	128.60
60	B4	13	DG	O4'-C1'-N9	7.51	113.26	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
87	BW	10	DG	C5-C6-O6	-7.51	124.09	128.60
96	Bf	47	DG	C5-C6-O6	-7.51	124.09	128.60
107	Bq	27	DG	C5-C6-O6	-7.51	124.09	128.60
125	CH	10	DG	C5-C6-O6	-7.51	124.09	128.60
148	Cf	9	DG	C5-C6-O6	-7.51	124.09	128.60
1	AA	1818	DG	C5-C6-O6	-7.51	124.09	128.60
1	AA	3318	DG	C5-C6-O6	-7.51	124.09	128.60
50	Au	42	DA	P-O3'-C3'	7.51	128.71	119.70
92	Bb	1	DG	C5-C6-O6	-7.51	124.09	128.60
29	AT	18	DA	O4'-C4'-C3'	-7.51	101.50	106.00
129	CL	5	DA	P-O3'-C3'	7.51	128.71	119.70
1	AA	2059	DC	O4'-C1'-C2'	-7.50	99.90	105.90
1	AA	807	DG	C5-C6-O6	-7.50	124.10	128.60
1	AA	1649	DG	C5-C6-O6	-7.50	124.10	128.60
1	AA	3163	DG	C5-C6-O6	-7.50	124.10	128.60
1	AA	4591	DG	C5-C6-O6	-7.50	124.10	128.60
1	AA	5235	DG	C5-C6-O6	-7.50	124.10	128.60
43	Aj	40	DA	C5-C6-N6	-7.50	117.70	123.70
99	Bi	14	DG	C5-C6-O6	-7.50	124.10	128.60
115	C5	27	DG	C5-C6-O6	-7.50	124.10	128.60
62	B6	17	DG	C5-C6-O6	-7.50	124.10	128.60
92	Bb	1	DG	O4'-C1'-N9	7.50	113.25	108.00
120	CC	31	DG	C5-C6-O6	-7.50	124.10	128.60
28	AS	31	DA	O4'-C1'-N9	7.50	113.25	108.00
63	B7	25	DG	C5-C6-O6	-7.50	124.10	128.60
1	AA	929	DG	C5-C6-O6	-7.50	124.10	128.60
1	AA	3963	DG	C1'-O4'-C4'	-7.50	102.60	110.10
1	AA	5709	DG	C5-C6-O6	-7.50	124.10	128.60
1	AA	7036	DT	C1'-O4'-C4'	-7.50	102.60	110.10
23	AN	27	DG	C5-C6-O6	-7.50	124.10	128.60
29	AT	23	DG	O4'-C1'-N9	7.50	113.25	108.00
122	CE	28	DG	C5-C6-O6	-7.50	124.10	128.60
141	CX	27	DC	N3-C4-N4	7.50	123.25	118.00
148	Cf	2	DG	C5-C6-O6	-7.50	124.10	128.60
1	AA	533	DA	O4'-C1'-C2'	-7.50	99.90	105.90
1	AA	1579	DG	C5-C6-O6	-7.50	124.10	128.60
1	AA	3370	DG	C5-C6-O6	-7.50	124.10	128.60
1	AA	5334	DG	C5-C6-O6	-7.50	124.10	128.60
120	CC	4	DG	C5-C6-O6	-7.50	124.10	128.60
122	CE	17	DG	C5-C6-O6	-7.50	124.10	128.60
1	AA	697	DC	O4'-C4'-C3'	-7.50	101.50	104.50
1	AA	3093	DG	C5-C6-O6	-7.50	124.10	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	Au	1	DG	C5-C6-O6	-7.49	124.10	128.60
105	Bo	65	DG	C5-C6-O6	-7.49	124.10	128.60
122	CE	14	DA	O4'-C4'-C3'	-7.49	101.50	104.50
147	Ce	42	DT	O4'-C1'-C2'	-7.49	99.91	105.90
159	Cw	31	DG	C5-C6-O6	-7.49	124.10	128.60
7	A5	46	DG	C5-C6-O6	-7.49	124.11	128.60
70	BF	9	DG	C5-C6-O6	-7.49	124.11	128.60
4	A2	11	DG	P-O3'-C3'	7.49	128.69	119.70
82	BR	21	DG	C5-C6-O6	-7.49	124.11	128.60
1	AA	3333	DG	C5-C6-O6	-7.49	124.11	128.60
28	AS	30	DG	O4'-C1'-N9	7.49	113.24	108.00
67	BC	23	DG	C5-C6-O6	-7.49	124.11	128.60
140	CW	28	DC	P-O3'-C3'	7.49	128.69	119.70
1	AA	4887	DG	C5-C6-O6	-7.49	124.11	128.60
1	AA	4095	DG	C5-C6-O6	-7.49	124.11	128.60
9	A7	36	DG	C5-C6-O6	-7.49	124.11	128.60
112	C2	10	DG	C5-C6-O6	-7.49	124.11	128.60
159	Cw	18	DG	C5-C6-O6	-7.49	124.11	128.60
1	AA	2455	DG	C5-C6-O6	-7.48	124.11	128.60
1	AA	4484	DG	C5-C6-O6	-7.48	124.11	128.60
1	AA	6037	DA	C5-C6-N6	-7.48	117.71	123.70
1	AA	1836	DG	C5-C6-O6	-7.48	124.11	128.60
1	AA	7074	DG	C5-C6-O6	-7.48	124.11	128.60
85	BU	52	DG	C5-C6-O6	-7.48	124.11	128.60
116	C6	38	DG	C5-C6-O6	-7.48	124.11	128.60
119	CB	20	DG	C5-C6-O6	-7.48	124.11	128.60
1	AA	6269	DA	O4'-C4'-C3'	-7.47	101.51	104.50
43	Aj	8	DA	C5-C6-N6	-7.47	117.72	123.70
9	A7	37	DA	O4'-C1'-N9	7.47	113.23	108.00
74	BJ	2	DA	O4'-C4'-C3'	-7.47	101.51	104.50
132	CO	14	DG	C5-C6-O6	-7.47	124.12	128.60
41	Ah	40	DG	C5-C6-O6	-7.47	124.12	128.60
1	AA	2260	DG	C5-C6-O6	-7.47	124.12	128.60
1	AA	5020	DG	C5-C6-O6	-7.47	124.12	128.60
1	AA	4419	DT	P-O3'-C3'	7.47	128.66	119.70
1	AA	4707	DA	O4'-C4'-C3'	-7.47	101.51	104.50
1	AA	4779	DG	O4'-C1'-C2'	-7.47	99.93	105.90
1	AA	6398	DA	C5-C6-N6	-7.47	117.73	123.70
5	A3	37	DG	N1-C6-O6	7.47	124.38	119.90
127	CJ	41	DC	C1'-O4'-C4'	-7.47	102.63	110.10
147	Ce	13	DG	C5-C6-O6	-7.47	124.12	128.60
156	Ct	1	DG	C5-C6-O6	-7.47	124.12	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1457	DA	C5-C6-N6	-7.46	117.73	123.70
1	AA	3591	DA	C5-C6-N6	-7.46	117.73	123.70
1	AA	4086	DG	C5-C6-O6	-7.46	124.12	128.60
53	Ax	44	DG	C5-C6-O6	-7.46	124.12	128.60
162	Cz	38	DC	P-O3'-C3'	7.46	128.66	119.70
1	AA	7162	DC	O4'-C4'-C3'	-7.46	101.52	104.50
17	AH	2	DC	O4'-C4'-C3'	-7.46	101.52	104.50
78	BN	59	DA	O4'-C1'-N9	7.46	113.22	108.00
150	Ch	35	DC	O4'-C1'-N1	7.46	113.22	108.00
1	AA	814	DG	C5-C6-O6	-7.46	124.12	128.60
1	AA	2655	DT	O4'-C4'-C3'	-7.46	101.52	104.50
1	AA	6097	DG	C5-C6-O6	-7.46	124.12	128.60
28	AS	10	DG	N1-C6-O6	7.46	124.38	119.90
49	As	9	DG	C5-C6-O6	-7.46	124.12	128.60
67	BC	2	DG	C5-C6-O6	-7.46	124.12	128.60
100	Bj	1	DA	O4'-C1'-N9	7.46	113.22	108.00
1	AA	1405	DG	C5-C6-O6	-7.46	124.13	128.60
8	A6	35	DG	C5-C6-O6	-7.46	124.13	128.60
40	Ag	2	DG	C5-C6-O6	-7.46	124.13	128.60
104	Bn	60	DG	C5-C6-O6	-7.46	124.13	128.60
1	AA	4920	DG	C5-C6-O6	-7.46	124.13	128.60
1	AA	6818	DC	O4'-C1'-C2'	-7.46	99.94	105.90
137	CT	44	DG	C5-C6-O6	-7.46	124.13	128.60
1	AA	3829	DG	C5-C6-O6	-7.45	124.13	128.60
98	Bh	20	DG	C5-C6-O6	-7.45	124.13	128.60
122	CE	7	DA	C5-C6-N6	-7.45	117.74	123.70
75	BK	21	DA	C5-C6-N6	-7.45	117.74	123.70
1	AA	376	DG	C5-C6-O6	-7.45	124.13	128.60
1	AA	6151	DG	C5-C6-O6	-7.45	124.13	128.60
2	A0	41	DG	C5-C6-O6	-7.45	124.13	128.60
53	Ax	6	DG	C5-C6-O6	-7.45	124.13	128.60
74	BJ	18	DT	O4'-C4'-C3'	-7.45	101.52	104.50
1	AA	5091	DT	O4'-C1'-C2'	-7.45	99.94	105.90
81	BQ	15	DG	C5-C6-O6	-7.45	124.13	128.60
1	AA	776	DG	C5-C6-O6	-7.45	124.13	128.60
1	AA	351	DG	C5-C6-O6	-7.44	124.13	128.60
1	AA	6434	DG	C5-C6-O6	-7.44	124.13	128.60
1	AA	1618	DG	C5-C6-O6	-7.44	124.14	128.60
1	AA	2870	DA	C5-C6-N6	-7.44	117.75	123.70
14	AE	38	DG	P-O3'-C3'	7.44	128.63	119.70
1	AA	4740	DG	C5-C6-O6	-7.44	124.14	128.60
1	AA	5828	DG	C5-C6-O6	-7.44	124.14	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	7246	DG	C5-C6-O6	-7.44	124.14	128.60
27	AR	41	DG	C5-C6-O6	-7.44	124.14	128.60
142	CY	19	DA	O4'-C1'-N9	7.44	113.21	108.00
155	Cs	23	DG	C5-C6-O6	-7.44	124.14	128.60
157	Cu	30	DT	O4'-C4'-C3'	-7.44	101.52	104.50
113	C3	39	DG	C5-C6-O6	-7.44	124.14	128.60
1	AA	1846	DG	C5-C6-O6	-7.44	124.14	128.60
1	AA	4242	DG	C5-C6-O6	-7.44	124.14	128.60
1	AA	6268	DG	C5-C6-O6	-7.44	124.14	128.60
47	An	32	DG	C5-C6-O6	-7.44	124.14	128.60
132	CO	22	DT	P-O3'-C3'	7.44	128.62	119.70
133	CP	56	DG	C5-C6-O6	-7.44	124.14	128.60
1	AA	862	DG	C5-C6-O6	-7.43	124.14	128.60
1	AA	3436	DT	P-O3'-C3'	7.43	128.62	119.70
86	BV	1	DC	O4'-C4'-C3'	-7.43	101.53	104.50
1	AA	3767	DG	C5-C6-O6	-7.43	124.14	128.60
1	AA	5836	DG	C5-C6-O6	-7.43	124.14	128.60
1	AA	6312	DG	C5-C6-O6	-7.43	124.14	128.60
90	BZ	9	DG	C5-C6-O6	-7.43	124.14	128.60
106	Bp	44	DG	C5-C6-O6	-7.43	124.14	128.60
133	CP	40	DG	C5-C6-O6	-7.43	124.14	128.60
1	AA	1821	DG	C5-C6-O6	-7.43	124.14	128.60
120	CC	46	DG	O4'-C1'-N9	7.43	113.20	108.00
1	AA	1159	DG	C5-C6-O6	-7.43	124.14	128.60
1	AA	4941	DG	C5-C6-O6	-7.43	124.14	128.60
1	AA	4951	DA	C5-C6-N6	-7.43	117.76	123.70
6	A4	5	DA	P-O3'-C3'	7.43	128.62	119.70
21	AL	19	DG	C5-C6-O6	-7.43	124.14	128.60
43	Aj	14	DA	C5-C6-N6	-7.43	117.76	123.70
93	Bc	50	DG	C5-C6-O6	-7.43	124.14	128.60
117	C7	7	DG	C5-C6-O6	-7.43	124.14	128.60
1	AA	1282	DG	C5-C6-O6	-7.43	124.14	128.60
1	AA	3469	DG	C5-C6-O6	-7.43	124.14	128.60
56	B0	5	DG	C5-C6-O6	-7.43	124.14	128.60
1	AA	405	DG	C5-C6-O6	-7.43	124.14	128.60
13	AD	44	DG	C5-C6-O6	-7.43	124.14	128.60
128	CK	18	DG	C5-C6-O6	-7.43	124.14	128.60
1	AA	2959	DG	C5-C6-O6	-7.42	124.15	128.60
1	AA	5222	DG	C5-C6-O6	-7.42	124.14	128.60
1	AA	6753	DG	C5-C6-O6	-7.42	124.15	128.60
143	CZ	14	DA	P-O3'-C3'	7.42	128.61	119.70
1	AA	4207	DG	C5-C6-O6	-7.42	124.15	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	AZ	52	DC	O4'-C4'-C3'	-7.42	101.53	104.50
159	Cw	1	DG	N1-C6-O6	7.42	124.35	119.90
1	AA	2628	DG	C5-C6-O6	-7.42	124.15	128.60
145	Cc	49	DC	O4'-C1'-N1	7.42	113.19	108.00
1	AA	3149	DT	O4'-C4'-C3'	-7.42	101.53	104.50
7	A5	28	DG	C5-C6-O6	-7.42	124.15	128.60
113	C3	21	DG	C5-C6-O6	-7.42	124.15	128.60
122	CE	16	DA	C5-C6-N6	-7.42	117.76	123.70
1	AA	6622	DC	O4'-C1'-C2'	-7.42	99.96	105.90
1	AA	7057	DG	C5-C6-O6	-7.42	124.15	128.60
33	AX	43	DA	C5-C6-N6	-7.42	117.77	123.70
1	AA	7048	DG	C5-C6-O6	-7.42	124.15	128.60
12	AC	19	DG	C5-C6-O6	-7.42	124.15	128.60
24	AO	15	DG	C5-C6-O6	-7.42	124.15	128.60
128	CK	40	DA	C5-C6-N6	-7.42	117.77	123.70
1	AA	6738	DG	C5-C6-O6	-7.42	124.15	128.60
46	Am	27	DG	C5-C6-O6	-7.42	124.15	128.60
1	AA	3501	DG	C5-C6-O6	-7.41	124.15	128.60
1	AA	6094	DG	C5-C6-O6	-7.41	124.15	128.60
1	AA	6190	DG	C5-C6-O6	-7.41	124.15	128.60
1	AA	6388	DG	C5-C6-O6	-7.41	124.15	128.60
1	AA	6860	DG	C5-C6-O6	-7.41	124.15	128.60
80	BP	21	DG	C5-C6-O6	-7.41	124.15	128.60
96	Bf	39	DG	O4'-C1'-N9	7.41	113.19	108.00
129	CL	30	DT	O4'-C1'-C2'	-7.41	99.97	105.90
1	AA	3921	DG	C5-C6-O6	-7.41	124.15	128.60
1	AA	4649	DG	C5-C6-O6	-7.41	124.15	128.60
1	AA	533	DA	O4'-C4'-C3'	-7.41	101.54	104.50
1	AA	4284	DG	C5-C6-O6	-7.41	124.15	128.60
1	AA	6928	DG	O4'-C1'-C2'	-7.41	99.97	105.90
30	AU	15	DG	C5-C6-O6	-7.41	124.15	128.60
36	Ab	21	DG	C5-C6-O6	-7.41	124.15	128.60
37	Ac	40	DA	P-O3'-C3'	7.41	128.59	119.70
40	Ag	14	DC	O4'-C1'-N1	7.41	113.19	108.00
61	B5	6	DT	P-O3'-C3'	7.41	128.59	119.70
137	CT	16	DG	C5-C6-O6	-7.41	124.15	128.60
116	C6	31	DG	C5-C6-O6	-7.41	124.16	128.60
136	CS	16	DG	C5-C6-O6	-7.41	124.16	128.60
1	AA	4308	DG	C5-C6-O6	-7.41	124.16	128.60
1	AA	5493	DG	C5-C6-O6	-7.41	124.16	128.60
1	AA	4393	DG	C5-C6-O6	-7.40	124.16	128.60
111	C1	32	DG	C5-C6-O6	-7.40	124.16	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	845	DG	C5-C6-O6	-7.40	124.16	128.60
1	AA	955	DG	C5-C6-O6	-7.40	124.16	128.60
1	AA	2765	DG	C5-C6-O6	-7.40	124.16	128.60
40	Ag	35	DG	C5-C6-O6	-7.40	124.16	128.60
83	BS	30	DG	C5-C6-O6	-7.40	124.16	128.60
99	Bi	39	DG	C1'-O4'-C4'	-7.40	102.70	110.10
102	Bl	29	DA	P-O3'-C3'	7.40	128.58	119.70
105	Bo	14	DT	O4'-C1'-C2'	-7.40	99.98	105.90
147	Ce	14	DG	C5-C6-O6	-7.40	124.16	128.60
1	AA	7184	DG	C5-C6-O6	-7.40	124.16	128.60
57	B1	50	DG	C5-C6-O6	-7.40	124.16	128.60
62	B6	29	DG	O4'-C4'-C3'	-7.40	101.54	104.50
134	CQ	37	DG	N1-C6-O6	7.40	124.34	119.90
1	AA	3292	DA	C5-C6-N6	-7.40	117.78	123.70
1	AA	3789	DG	C5-C6-O6	-7.40	124.16	128.60
1	AA	4334	DG	C5-C6-O6	-7.40	124.16	128.60
1	AA	6438	DC	N3-C4-N4	7.40	123.18	118.00
159	Cw	26	DG	C5-C6-O6	-7.40	124.16	128.60
33	AX	20	DG	C5-C6-O6	-7.40	124.16	128.60
62	B6	42	DA	P-O3'-C3'	7.40	128.57	119.70
154	Cr	44	DA	P-O3'-C3'	7.40	128.58	119.70
1	AA	573	DA	C1'-O4'-C4'	-7.39	102.71	110.10
1	AA	3810	DG	C5-C6-O6	-7.39	124.16	128.60
9	A7	14	DG	C5-C6-O6	-7.39	124.17	128.60
1	AA	2968	DG	C5-C6-O6	-7.39	124.17	128.60
1	AA	5082	DG	O4'-C1'-C2'	-7.39	99.99	105.90
1	AA	5953	DT	C1'-O4'-C4'	-7.39	102.71	110.10
43	Aj	18	DA	C5-C6-N6	-7.39	117.79	123.70
100	Bj	14	DG	C5-C6-O6	-7.39	124.17	128.60
1	AA	3366	DG	C5-C6-O6	-7.39	124.17	128.60
1	AA	3963	DG	O4'-C4'-C3'	-7.39	101.55	104.50
1	AA	6509	DG	C5-C6-O6	-7.39	124.17	128.60
32	AW	45	DC	P-O3'-C3'	7.39	128.56	119.70
44	Ak	26	DG	C5-C6-O6	-7.39	124.17	128.60
155	Cs	22	DT	O4'-C1'-C2'	-7.39	99.99	105.90
1	AA	5053	DG	C5-C6-O6	-7.38	124.17	128.60
155	Cs	6	DA	O4'-C4'-C3'	-7.38	101.55	104.50
1	AA	1513	DG	C5-C6-O6	-7.38	124.17	128.60
20	AK	1	DA	O4'-C1'-N9	7.38	113.17	108.00
44	Ak	41	DA	C5-C6-N6	-7.38	117.79	123.70
49	As	3	DC	O4'-C1'-N1	7.38	113.17	108.00
154	Cr	43	DG	C5-C6-O6	-7.38	124.17	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
161	Cy	29	DG	C5-C6-O6	-7.38	124.17	128.60
1	AA	5280	DG	C5-C6-O6	-7.38	124.17	128.60
35	AZ	8	DG	C5-C6-O6	-7.38	124.17	128.60
42	Ai	5	DG	C5-C6-O6	-7.38	124.17	128.60
97	Bg	11	DC	O4'-C1'-N1	7.38	113.17	108.00
1	AA	2677	DG	C5-C6-O6	-7.38	124.17	128.60
1	AA	3259	DG	C5-C6-O6	-7.38	124.17	128.60
120	CC	36	DG	C5-C6-O6	-7.38	124.17	128.60
1	AA	3031	DA	C5-C6-N6	-7.38	117.80	123.70
1	AA	3571	DG	C5-C6-O6	-7.38	124.17	128.60
55	Az	13	DA	P-O3'-C3'	7.38	128.55	119.70
1	AA	1150	DG	C5-C6-O6	-7.37	124.18	128.60
1	AA	1189	DA	P-O3'-C3'	7.37	128.55	119.70
1	AA	3886	DG	C5-C6-O6	-7.37	124.18	128.60
1	AA	4169	DC	O4'-C4'-C3'	-7.37	101.55	104.50
1	AA	6048	DG	C5-C6-O6	-7.37	124.18	128.60
29	AT	30	DG	C5-C6-O6	-7.37	124.18	128.60
91	Ba	46	DG	C5-C6-O6	-7.37	124.18	128.60
95	Be	12	DG	C5-C6-O6	-7.37	124.18	128.60
1	AA	5005	DG	C5-C6-O6	-7.37	124.18	128.60
42	Ai	2	DA	O4'-C1'-C2'	-7.37	100.00	105.90
44	Ak	42	DA	P-O3'-C3'	7.37	128.54	119.70
52	Aw	14	DA	C5-C6-N6	-7.37	117.81	123.70
90	BZ	45	DG	C5-C6-O6	-7.37	124.18	128.60
1	AA	1381	DG	C5-C6-O6	-7.37	124.18	128.60
1	AA	3378	DG	C5-C6-O6	-7.37	124.18	128.60
1	AA	4571	DG	C5-C6-O6	-7.37	124.18	128.60
1	AA	1077	DG	C5-C6-O6	-7.37	124.18	128.60
1	AA	2133	DG	C5-C6-O6	-7.37	124.18	128.60
1	AA	4536	DG	C5-C6-O6	-7.37	124.18	128.60
123	CF	35	DG	C5-C6-O6	-7.37	124.18	128.60
1	AA	5765	DT	P-O3'-C3'	7.36	128.54	119.70
1	AA	5809	DA	C5-C6-N6	-7.36	117.81	123.70
1	AA	6257	DG	C5-C6-O6	-7.36	124.18	128.60
1	AA	6666	DG	C5-C6-O6	-7.36	124.18	128.60
3	A1	43	DA	O4'-C1'-N9	7.36	113.15	108.00
48	Ao	14	DA	C5-C6-N6	-7.36	117.81	123.70
1	AA	2323	DG	C5-C6-O6	-7.36	124.18	128.60
1	AA	6839	DG	C5-C6-O6	-7.36	124.18	128.60
12	AC	38	DG	C5-C6-O6	-7.36	124.18	128.60
98	Bh	13	DG	C5-C6-O6	-7.36	124.18	128.60
1	AA	5537	DG	C5-C6-O6	-7.36	124.18	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
135	CR	43	DT	P-O3'-C3'	7.36	128.53	119.70
1	AA	1273	DG	P-O3'-C3'	7.36	128.53	119.70
1	AA	1688	DG	C5-C6-O6	-7.36	124.19	128.60
1	AA	3348	DG	C5-C6-O6	-7.36	124.19	128.60
1	AA	3372	DG	C5-C6-O6	-7.36	124.19	128.60
1	AA	3838	DG	C5-C6-O6	-7.36	124.19	128.60
17	AH	13	DG	C5-C6-O6	-7.36	124.19	128.60
28	AS	15	DA	O4'-C1'-N9	7.36	113.15	108.00
68	BD	22	DG	C5-C6-O6	-7.36	124.19	128.60
105	Bo	40	DG	C5-C6-O6	-7.36	124.19	128.60
1	AA	4462	DG	C5-C6-O6	-7.36	124.19	128.60
1	AA	4694	DG	C5-C6-O6	-7.36	124.19	128.60
140	CW	33	DG	O4'-C1'-N9	7.36	113.15	108.00
1	AA	167	DG	C5-C6-O6	-7.35	124.19	128.60
1	AA	3551	DG	C5-C6-O6	-7.35	124.19	128.60
58	B2	15	DT	O4'-C4'-C3'	-7.35	101.56	104.50
1	AA	52	DG	C5-C6-O6	-7.35	124.19	128.60
1	AA	4402	DG	C5-C6-O6	-7.35	124.19	128.60
31	AV	1	DG	C5-C6-O6	-7.35	124.19	128.60
39	Af	14	DG	C5-C6-O6	-7.35	124.19	128.60
40	Ag	24	DG	C5-C6-O6	-7.35	124.19	128.60
68	BD	16	DG	C5-C6-O6	-7.35	124.19	128.60
74	BJ	10	DG	C5-C6-O6	-7.35	124.19	128.60
91	Ba	20	DG	C5-C6-O6	-7.35	124.19	128.60
119	CB	30	DG	C5-C6-O6	-7.35	124.19	128.60
124	CG	15	DG	C5-C6-O6	-7.35	124.19	128.60
128	CK	25	DG	C5-C6-O6	-7.35	124.19	128.60
1	AA	1723	DC	O4'-C4'-C3'	-7.35	101.56	104.50
10	A8	12	DC	O4'-C1'-N1	7.35	113.14	108.00
102	Bl	16	DG	C5-C6-O6	-7.35	124.19	128.60
104	Bn	26	DG	C5-C6-O6	-7.35	124.19	128.60
150	Ch	30	DG	C5-C6-O6	-7.35	124.19	128.60
155	Cs	10	DA	C5-C6-N6	-7.35	117.82	123.70
1	AA	1725	DG	C5-C6-O6	-7.35	124.19	128.60
1	AA	967	DT	O4'-C4'-C3'	-7.34	101.56	104.50
1	AA	3316	DG	C5-C6-O6	-7.34	124.19	128.60
1	AA	4693	DG	C5-C6-O6	-7.34	124.19	128.60
107	Bq	25	DG	C5-C6-O6	-7.34	124.19	128.60
1	AA	515	DG	C5-C6-O6	-7.34	124.19	128.60
1	AA	1950	DG	C5-C6-O6	-7.34	124.19	128.60
1	AA	4741	DG	C5-C6-O6	-7.34	124.19	128.60
101	Bk	43	DG	C5-C6-O6	-7.34	124.19	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6511	DG	C5-C6-O6	-7.34	124.20	128.60
119	CB	11	DG	C5-C6-O6	-7.34	124.20	128.60
46	Am	28	DA	O4'-C1'-N9	7.34	113.14	108.00
152	Cp	29	DG	C5-C6-O6	-7.34	124.20	128.60
153	Cq	6	DG	C5-C6-O6	-7.34	124.20	128.60
1	AA	2635	DG	C5-C6-O6	-7.34	124.20	128.60
12	AC	37	DG	C5-C6-O6	-7.34	124.20	128.60
13	AD	17	DG	P-O3'-C3'	7.34	128.50	119.70
34	AY	3	DG	C5-C6-O6	-7.34	124.20	128.60
38	Ad	28	DG	C5-C6-O6	-7.34	124.20	128.60
51	Av	29	DG	C5-C6-O6	-7.34	124.20	128.60
1	AA	4386	DG	C5-C6-O6	-7.33	124.20	128.60
1	AA	5571	DG	C5-C6-O6	-7.33	124.20	128.60
135	CR	42	DA	O4'-C1'-C2'	-7.33	100.03	105.90
1	AA	7028	DG	C1'-O4'-C4'	-7.33	102.77	110.10
34	AY	39	DG	C5-C6-O6	-7.33	124.20	128.60
54	Ay	3	DG	C5-C6-O6	-7.33	124.20	128.60
114	C4	14	DG	O4'-C4'-C3'	-7.33	101.57	104.50
1	AA	2445	DG	C5-C6-O6	-7.33	124.20	128.60
1	AA	3851	DG	C5-C6-O6	-7.33	124.20	128.60
1	AA	4698	DG	C5-C6-O6	-7.33	124.20	128.60
1	AA	5982	DG	C5-C6-O6	-7.33	124.20	128.60
1	AA	6862	DC	P-O3'-C3'	7.33	128.50	119.70
22	AM	33	DG	C5-C6-O6	-7.33	124.20	128.60
156	Ct	12	DG	C5-C6-O6	-7.33	124.20	128.60
1	AA	4129	DA	P-O3'-C3'	7.33	128.50	119.70
1	AA	5146	DG	C5-C6-O6	-7.33	124.20	128.60
1	AA	6457	DG	C5-C6-O6	-7.33	124.20	128.60
4	A2	35	DA	P-O3'-C3'	7.33	128.50	119.70
92	Bb	13	DG	C5-C6-O6	-7.33	124.20	128.60
1	AA	5062	DG	C5-C6-O6	-7.33	124.20	128.60
13	AD	47	DG	C5-C6-O6	-7.33	124.20	128.60
26	AQ	17	DG	O4'-C1'-N9	7.33	113.13	108.00
113	C3	27	DA	P-O3'-C3'	7.33	128.50	119.70
1	AA	743	DG	C5-C6-O6	-7.33	124.20	128.60
1	AA	761	DG	C5-C6-O6	-7.33	124.20	128.60
125	CH	23	DG	C5-C6-O6	-7.33	124.20	128.60
147	Ce	25	DT	C1'-O4'-C4'	-7.33	102.78	110.10
1	AA	362	DG	C5-C6-O6	-7.32	124.21	128.60
1	AA	532	DG	C5-C6-O6	-7.32	124.21	128.60
1	AA	1418	DA	O4'-C1'-C2'	-7.32	100.04	105.90
1	AA	2005	DG	C5-C6-O6	-7.32	124.21	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	A7	19	DG	C5-C6-O6	-7.32	124.21	128.60
129	CL	24	DG	C5-C6-O6	-7.32	124.21	128.60
160	Cx	27	DG	C5-C6-O6	-7.32	124.21	128.60
28	AS	13	DG	O4'-C1'-N9	7.32	113.12	108.00
1	AA	3657	DG	C5-C6-O6	-7.32	124.21	128.60
1	AA	3711	DG	C5-C6-O6	-7.32	124.21	128.60
16	AG	42	DA	P-O3'-C3'	7.32	128.49	119.70
26	AQ	49	DG	C5-C6-O6	-7.32	124.21	128.60
40	Ag	18	DG	C5-C6-O6	-7.32	124.21	128.60
84	BT	16	DT	P-O3'-C3'	7.32	128.49	119.70
84	BT	39	DG	C5-C6-O6	-7.32	124.21	128.60
115	C5	24	DT	O4'-C1'-C2'	-7.32	100.04	105.90
118	C8	43	DA	O4'-C1'-N9	7.32	113.12	108.00
121	CD	31	DG	C5-C6-O6	-7.32	124.21	128.60
150	Ch	22	DG	C5-C6-O6	-7.32	124.21	128.60
1	AA	2699	DG	C5-C6-O6	-7.32	124.21	128.60
1	AA	3995	DC	O4'-C1'-C2'	-7.32	100.05	105.90
1	AA	4675	DA	O4'-C4'-C3'	-7.32	101.57	104.50
1	AA	7165	DT	O4'-C4'-C3'	-7.32	101.57	104.50
68	BD	34	DG	C5-C6-O6	-7.32	124.21	128.60
150	Ch	44	DG	C5-C6-O6	-7.32	124.21	128.60
1	AA	4463	DG	C5-C6-O6	-7.32	124.21	128.60
1	AA	5127	DG	C5-C6-O6	-7.32	124.21	128.60
1	AA	5267	DA	P-O5'-C5'	-7.32	109.20	120.90
1	AA	3355	DG	C5-C6-O6	-7.31	124.21	128.60
1	AA	4134	DG	C5-C6-O6	-7.31	124.21	128.60
1	AA	4751	DG	C5-C6-O6	-7.31	124.21	128.60
1	AA	420	DG	C5-C6-O6	-7.31	124.21	128.60
19	AJ	30	DG	C5-C6-O6	-7.31	124.21	128.60
94	Bd	55	DG	C5-C6-O6	-7.31	124.21	128.60
102	Bl	19	DG	C5-C6-O6	-7.31	124.21	128.60
1	AA	53	DG	C5-C6-O6	-7.31	124.21	128.60
1	AA	93	DG	O4'-C4'-C3'	-7.31	101.58	104.50
1	AA	3776	DG	C5-C6-O6	-7.31	124.21	128.60
31	AV	34	DA	C4-C5-C6	7.31	120.66	117.00
1	AA	163	DT	O4'-C1'-C2'	-7.31	100.05	105.90
1	AA	3224	DT	P-O3'-C3'	7.31	128.47	119.70
110	C0	7	DG	C5-C6-O6	-7.31	124.22	128.60
1	AA	5531	DG	C5-C6-O6	-7.31	124.22	128.60
11	AB	12	DG	C5-C6-O6	-7.31	124.22	128.60
89	BY	11	DG	C5-C6-O6	-7.31	124.22	128.60
144	Cb	20	DG	C5-C6-O6	-7.31	124.22	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6044	DA	C5-C6-N6	-7.30	117.86	123.70
1	AA	7240	DG	C5-C6-O6	-7.30	124.22	128.60
1	AA	4826	DG	N1-C6-O6	7.30	124.28	119.90
81	BQ	23	DG	C5-C6-O6	-7.30	124.22	128.60
1	AA	2647	DA	C5-C6-N6	-7.30	117.86	123.70
47	An	30	DG	C5-C6-O6	-7.30	124.22	128.60
74	BJ	16	DG	C5-C6-O6	-7.30	124.22	128.60
1	AA	31	DG	C5-C6-O6	-7.30	124.22	128.60
56	B0	29	DG	C5-C6-O6	-7.30	124.22	128.60
58	B2	1	DG	C5-C6-O6	-7.30	124.22	128.60
79	BO	34	DG	C5-C6-O6	-7.30	124.22	128.60
112	C2	7	DG	C5-C6-O6	-7.30	124.22	128.60
161	Cy	48	DG	C5-C6-O6	-7.30	124.22	128.60
1	AA	1116	DG	C5-C6-O6	-7.30	124.22	128.60
26	AQ	56	DC	P-O3'-C3'	7.30	128.46	119.70
105	Bo	22	DG	C5-C6-O6	-7.30	124.22	128.60
132	CO	46	DG	O4'-C1'-C2'	-7.30	100.06	105.90
1	AA	203	DG	C5-C6-O6	-7.30	124.22	128.60
1	AA	4017	DG	C5-C6-O6	-7.30	124.22	128.60
2	A0	30	DG	P-O3'-C3'	7.30	128.46	119.70
58	B2	7	DT	O4'-C1'-C2'	-7.30	100.06	105.90
67	BC	13	DG	C5-C6-O6	-7.30	124.22	128.60
87	BW	11	DG	C5-C6-O6	-7.30	124.22	128.60
126	CI	31	DG	C5-C6-O6	-7.30	124.22	128.60
152	Cp	33	DG	C5-C6-O6	-7.30	124.22	128.60
1	AA	2952	DG	C5-C6-O6	-7.29	124.22	128.60
1	AA	1429	DG	C5-C6-O6	-7.29	124.22	128.60
1	AA	3276	DG	C5-C6-O6	-7.29	124.22	128.60
1	AA	6872	DA	O4'-C1'-N9	7.29	113.11	108.00
95	Be	13	DG	C5-C6-O6	-7.29	124.22	128.60
1	AA	1815	DG	C5-C6-O6	-7.29	124.23	128.60
1	AA	791	DG	C5-C6-O6	-7.29	124.23	128.60
1	AA	3373	DG	C5-C6-O6	-7.29	124.23	128.60
1	AA	3603	DG	C5-C6-O6	-7.29	124.23	128.60
1	AA	4617	DC	C1'-O4'-C4'	-7.29	102.81	110.10
1	AA	4713	DG	C5-C6-O6	-7.29	124.23	128.60
1	AA	6403	DG	C5-C6-O6	-7.29	124.23	128.60
1	AA	6634	DG	C5-C6-O6	-7.29	124.23	128.60
1	AA	7171	DG	C5-C6-O6	-7.29	124.23	128.60
96	Bf	28	DG	C5-C6-O6	-7.29	124.23	128.60
1	AA	2490	DG	C5-C6-O6	-7.29	124.23	128.60
30	AU	8	DG	C5-C6-O6	-7.29	124.23	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
132	CO	44	DG	C5-C6-O6	-7.29	124.23	128.60
154	Cr	28	DG	C5-C6-O6	-7.29	124.23	128.60
25	AP	17	DG	C5-C6-O6	-7.28	124.23	128.60
96	Bf	45	DC	O4'-C1'-N1	7.28	113.10	108.00
1	AA	123	DG	C5-C6-O6	-7.28	124.23	128.60
23	AN	17	DG	C5-C6-O6	-7.28	124.23	128.60
49	As	12	DG	C5-C6-O6	-7.28	124.23	128.60
66	BB	11	DG	C5-C6-O6	-7.28	124.23	128.60
107	Bq	42	DG	C5-C6-O6	-7.28	124.23	128.60
128	CK	44	DG	C5-C6-O6	-7.28	124.23	128.60
141	CX	28	DG	C5-C6-O6	-7.28	124.23	128.60
20	AK	29	DG	C5-C6-O6	-7.28	124.23	128.60
43	Aj	26	DG	C5-C6-O6	-7.28	124.23	128.60
44	Ak	33	DG	C5-C6-O6	-7.28	124.23	128.60
81	BQ	39	DT	O4'-C1'-C2'	-7.28	100.08	105.90
102	Bl	17	DG	C5-C6-O6	-7.28	124.23	128.60
162	Cz	12	DG	C5-C6-O6	-7.28	124.23	128.60
1	AA	1330	DG	C5-C6-O6	-7.28	124.23	128.60
1	AA	4987	DG	C5-C6-O6	-7.28	124.23	128.60
76	BL	30	DG	O4'-C1'-C2'	-7.28	100.08	105.90
105	Bo	26	DG	P-O3'-C3'	7.28	128.44	119.70
1	AA	7042	DG	C5-C6-O6	-7.28	124.23	128.60
101	Bk	9	DG	C5-C6-O6	-7.28	124.23	128.60
1	AA	248	DG	C5-C6-O6	-7.28	124.23	128.60
1	AA	1782	DG	C5-C6-O6	-7.28	124.23	128.60
1	AA	6625	DG	C5-C6-O6	-7.28	124.23	128.60
160	Cx	32	DG	C5-C6-O6	-7.28	124.23	128.60
1	AA	147	DC	O4'-C1'-C2'	-7.27	100.08	105.90
129	CL	40	DG	C5-C6-O6	-7.27	124.24	128.60
1	AA	559	DG	C5-C6-O6	-7.27	124.24	128.60
1	AA	2441	DG	C5-C6-O6	-7.27	124.24	128.60
1	AA	2694	DG	C5-C6-O6	-7.27	124.24	128.60
1	AA	6073	DG	C5-C6-O6	-7.27	124.24	128.60
1	AA	7182	DG	C5-C6-O6	-7.27	124.24	128.60
35	AZ	3	DG	C5-C6-O6	-7.27	124.24	128.60
125	CH	9	DG	C5-C6-O6	-7.27	124.24	128.60
24	AO	10	DG	C5-C6-O6	-7.27	124.24	128.60
104	Bn	47	DG	C5-C6-O6	-7.27	124.24	128.60
1	AA	210	DG	C5-C6-O6	-7.27	124.24	128.60
39	Af	23	DA	O4'-C1'-N9	7.27	113.09	108.00
56	B0	1	DG	O4'-C1'-N9	7.27	113.09	108.00
64	B8	18	DG	C5-C6-O6	-7.27	124.24	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
68	BD	31	DG	C5-C6-O6	-7.27	124.24	128.60
1	AA	6415	DG	C5-C6-O6	-7.27	124.24	128.60
1	AA	7191	DG	C5-C6-O6	-7.27	124.24	128.60
59	B3	2	DC	P-O3'-C3'	7.27	128.42	119.70
71	BG	14	DG	C5-C6-O6	-7.27	124.24	128.60
84	BT	38	DG	C5-C6-O6	-7.27	124.24	128.60
144	Cb	8	DG	C5-C6-O6	-7.27	124.24	128.60
144	Cb	42	DT	O4'-C1'-C2'	-7.27	100.09	105.90
1	AA	71	DG	C5-C6-O6	-7.27	124.24	128.60
1	AA	3963	DG	C5-C6-O6	-7.27	124.24	128.60
1	AA	3980	DC	P-O3'-C3'	7.27	128.42	119.70
116	C6	6	DG	C5-C6-O6	-7.27	124.24	128.60
1	AA	6627	DG	C5-C6-O6	-7.26	124.24	128.60
1	AA	7221	DG	C5-C6-O6	-7.26	124.24	128.60
29	AT	42	DG	N1-C6-O6	7.26	124.26	119.90
65	B9	16	DA	P-O3'-C3'	7.26	128.42	119.70
92	Bb	5	DG	C5-C6-O6	-7.26	124.24	128.60
96	Bf	26	DG	C5-C6-O6	-7.26	124.24	128.60
137	CT	46	DG	C5-C6-O6	-7.26	124.24	128.60
1	AA	2200	DG	C5-C6-O6	-7.26	124.24	128.60
1	AA	3882	DG	C5-C6-O6	-7.26	124.24	128.60
7	A5	20	DG	C5-C6-O6	-7.26	124.24	128.60
44	Ak	17	DG	C5-C6-O6	-7.26	124.24	128.60
1	AA	1543	DG	C5-C6-O6	-7.26	124.24	128.60
1	AA	2779	DG	C5-C6-O6	-7.26	124.24	128.60
1	AA	3208	DG	C5-C6-O6	-7.26	124.24	128.60
1	AA	4200	DG	C5-C6-O6	-7.26	124.24	128.60
24	AO	30	DG	C5-C6-O6	-7.26	124.24	128.60
29	AT	47	DG	C5-C6-O6	-7.26	124.24	128.60
1	AA	597	DG	C5-C6-O6	-7.26	124.25	128.60
1	AA	4107	DG	C1'-O4'-C4'	-7.26	102.84	110.10
150	Ch	15	DG	C5-C6-O6	-7.26	124.25	128.60
1	AA	2276	DG	C5-C6-O6	-7.26	124.25	128.60
1	AA	3283	DG	C5-C6-O6	-7.26	124.25	128.60
11	AB	25	DG	C5-C6-O6	-7.26	124.25	128.60
95	Be	48	DG	C5-C6-O6	-7.26	124.25	128.60
122	CE	8	DA	C5-C6-N6	-7.26	117.89	123.70
1	AA	3609	DG	C5-C6-O6	-7.26	124.25	128.60
1	AA	4620	DG	C5-C6-O6	-7.26	124.25	128.60
1	AA	6124	DG	P-O3'-C3'	7.26	128.41	119.70
36	Ab	31	DG	C5-C6-O6	-7.26	124.25	128.60
88	BX	33	DG	C5-C6-O6	-7.26	124.25	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
140	CW	24	DT	O4'-C4'-C3'	-7.26	101.60	104.50
1	AA	5799	DG	C5-C6-O6	-7.25	124.25	128.60
1	AA	2969	DG	C5-C6-O6	-7.25	124.25	128.60
1	AA	6640	DG	C5-C6-O6	-7.25	124.25	128.60
9	A7	36	DG	O4'-C1'-N9	7.25	113.08	108.00
23	AN	10	DC	O4'-C4'-C3'	-7.25	101.60	104.50
40	Ag	31	DG	C5-C6-O6	-7.25	124.25	128.60
47	An	39	DG	C5-C6-O6	-7.25	124.25	128.60
132	CO	6	DG	C5-C6-O6	-7.25	124.25	128.60
1	AA	947	DG	C5-C6-O6	-7.25	124.25	128.60
1	AA	2044	DG	C5-C6-O6	-7.25	124.25	128.60
1	AA	4412	DG	C5-C6-O6	-7.25	124.25	128.60
1	AA	5781	DA	C5-C6-N6	-7.25	117.90	123.70
55	Az	31	DG	C5-C6-O6	-7.25	124.25	128.60
70	BF	6	DG	C5-C6-O6	-7.25	124.25	128.60
78	BN	58	DG	O4'-C1'-N9	7.25	113.08	108.00
1	AA	1419	DT	O4'-C1'-C2'	-7.25	100.10	105.90
1	AA	435	DG	C5-C6-O6	-7.25	124.25	128.60
1	AA	749	DG	C5-C6-O6	-7.25	124.25	128.60
1	AA	3578	DG	C5-C6-O6	-7.25	124.25	128.60
1	AA	5065	DG	C5-C6-O6	-7.25	124.25	128.60
23	AN	24	DC	O4'-C1'-C2'	-7.25	100.10	105.90
108	Br	42	DG	C5-C6-O6	-7.25	124.25	128.60
122	CE	40	DG	C5-C6-O6	-7.25	124.25	128.60
129	CL	2	DA	O4'-C1'-N9	7.25	113.07	108.00
1	AA	2507	DT	P-O3'-C3'	7.25	128.40	119.70
1	AA	3799	DG	C5-C6-O6	-7.25	124.25	128.60
48	Ao	3	DG	C5-C6-O6	-7.25	124.25	128.60
128	CK	47	DG	C5-C6-O6	-7.25	124.25	128.60
1	AA	5640	DG	C5-C6-O6	-7.25	124.25	128.60
55	Az	41	DG	C5-C6-O6	-7.25	124.25	128.60
84	BT	11	DG	C5-C6-O6	-7.25	124.25	128.60
119	CB	19	DG	C5-C6-O6	-7.25	124.25	128.60
1	AA	5669	DG	C5-C6-O6	-7.24	124.25	128.60
19	AJ	15	DA	C5-C6-N6	-7.24	117.91	123.70
36	Ab	14	DG	C5-C6-O6	-7.24	124.25	128.60
1	AA	6958	DA	O4'-C4'-C3'	-7.24	101.60	104.50
130	CM	36	DG	C5-C6-O6	-7.24	124.25	128.60
1	AA	2080	DG	C5-C6-O6	-7.24	124.26	128.60
1	AA	3968	DT	P-O3'-C3'	7.24	128.39	119.70
102	Bl	10	DG	C5-C6-O6	-7.24	124.25	128.60
114	C4	20	DG	C5-C6-O6	-7.24	124.25	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
159	Cw	16	DG	C5-C6-O6	-7.24	124.25	128.60
1	AA	1883	DG	C5-C6-O6	-7.24	124.26	128.60
1	AA	1965	DG	C5-C6-O6	-7.24	124.26	128.60
1	AA	2638	DG	C5-C6-O6	-7.24	124.26	128.60
44	Ak	45	DC	P-O3'-C3'	7.24	128.39	119.70
16	AG	12	DG	C5-C6-O6	-7.24	124.26	128.60
76	BL	36	DG	C5-C6-O6	-7.24	124.26	128.60
117	C7	13	DG	C5-C6-O6	-7.24	124.26	128.60
144	Cb	41	DG	C5-C6-O6	-7.24	124.26	128.60
1	AA	542	DC	P-O3'-C3'	7.24	128.38	119.70
1	AA	1041	DG	C5-C6-O6	-7.24	124.26	128.60
1	AA	1964	DG	C5-C6-O6	-7.24	124.26	128.60
1	AA	2035	DG	C5-C6-O6	-7.24	124.26	128.60
1	AA	2625	DG	C5-C6-O6	-7.24	124.26	128.60
1	AA	3849	DG	C5-C6-O6	-7.24	124.26	128.60
1	AA	7121	DA	P-O3'-C3'	7.24	128.38	119.70
14	AE	8	DG	C5-C6-O6	-7.24	124.26	128.60
22	AM	1	DA	O4'-C1'-N9	7.24	113.06	108.00
40	Ag	10	DG	C5-C6-O6	-7.24	124.26	128.60
96	Bf	25	DG	C5-C6-O6	-7.24	124.26	128.60
101	Bk	23	DG	C5-C6-O6	-7.24	124.26	128.60
1	AA	1651	DG	C5-C6-O6	-7.23	124.26	128.60
1	AA	6632	DG	C5-C6-O6	-7.23	124.26	128.60
1	AA	745	DG	C5-C6-O6	-7.23	124.26	128.60
1	AA	3483	DG	P-O5'-C5'	7.23	132.47	120.90
1	AA	6985	DG	C5-C6-O6	-7.23	124.26	128.60
120	CC	32	DG	C5-C6-O6	-7.23	124.26	128.60
1	AA	60	DG	C5-C6-O6	-7.23	124.26	128.60
1	AA	540	DG	C5-C6-O6	-7.23	124.26	128.60
1	AA	2962	DG	C5-C6-O6	-7.23	124.26	128.60
1	AA	4788	DG	C5-C6-O6	-7.23	124.26	128.60
1	AA	4861	DA	C5-C6-N6	-7.23	117.92	123.70
1	AA	4999	DG	C5-C6-O6	-7.23	124.26	128.60
24	AO	4	DG	C5-C6-O6	-7.23	124.26	128.60
1	AA	4160	DG	C5-C6-O6	-7.23	124.26	128.60
146	Cd	30	DA	P-O3'-C3'	7.23	128.38	119.70
1	AA	897	DC	O4'-C1'-C2'	-7.23	100.12	105.90
1	AA	1264	DA	P-O3'-C3'	7.23	128.37	119.70
1	AA	5203	DC	O4'-C1'-C2'	-7.23	100.12	105.90
62	B6	14	DG	C5-C6-O6	-7.23	124.26	128.60
91	Ba	17	DG	C5-C6-O6	-7.23	124.26	128.60
104	Bn	17	DG	C5-C6-O6	-7.23	124.26	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
150	Ch	40	DG	C5-C6-O6	-7.23	124.26	128.60
154	Cr	42	DG	C5-C6-O6	-7.23	124.26	128.60
1	AA	7084	DG	C5-C6-O6	-7.23	124.27	128.60
1	AA	2213	DG	C5-C6-O6	-7.22	124.27	128.60
1	AA	3264	DG	C5-C6-O6	-7.22	124.27	128.60
1	AA	6936	DG	C5-C6-O6	-7.22	124.27	128.60
1	AA	7088	DG	C5-C6-O6	-7.22	124.27	128.60
12	AC	35	DG	C5-C6-O6	-7.22	124.27	128.60
22	AM	34	DG	O4'-C4'-C3'	-7.22	101.61	104.50
40	Ag	36	DG	C5-C6-O6	-7.22	124.27	128.60
1	AA	89	DT	O4'-C4'-C3'	-7.22	101.61	104.50
1	AA	899	DG	C5-C6-O6	-7.22	124.27	128.60
1	AA	1061	DC	O4'-C1'-C2'	-7.22	100.12	105.90
1	AA	3328	DG	C5-C6-O6	-7.22	124.27	128.60
26	AQ	30	DT	O4'-C1'-C2'	-7.22	100.12	105.90
69	BE	26	DG	C5-C6-O6	-7.22	124.27	128.60
88	BX	12	DG	C5-C6-O6	-7.22	124.27	128.60
124	CG	9	DG	C5-C6-O6	-7.22	124.27	128.60
1	AA	6856	DG	C1'-O4'-C4'	-7.22	102.88	110.10
125	CH	42	DC	O4'-C1'-C2'	-7.22	100.12	105.90
2	A0	27	DG	C5-C6-O6	-7.22	124.27	128.60
22	AM	12	DG	C5-C6-O6	-7.22	124.27	128.60
160	Cx	13	DT	P-O3'-C3'	7.22	128.36	119.70
1	AA	3693	DG	C5-C6-O6	-7.22	124.27	128.60
1	AA	4104	DG	C5-C6-O6	-7.22	124.27	128.60
99	Bi	25	DA	P-O3'-C3'	7.22	128.36	119.70
1	AA	4534	DG	C5-C6-O6	-7.22	124.27	128.60
1	AA	317	DG	C5-C6-O6	-7.21	124.27	128.60
1	AA	1506	DA	OP1-P-O3'	-7.21	89.33	105.20
1	AA	1719	DG	C5-C6-O6	-7.21	124.27	128.60
1	AA	6709	DG	C5-C6-O6	-7.21	124.27	128.60
68	BD	26	DG	C5-C6-O6	-7.21	124.27	128.60
118	C8	18	DG	C5-C6-O6	-7.21	124.27	128.60
123	CF	30	DC	O4'-C4'-C3'	-7.21	101.61	104.50
1	AA	306	DG	C5-C6-O6	-7.21	124.27	128.60
1	AA	450	DG	C5-C6-O6	-7.21	124.27	128.60
1	AA	6512	DC	O4'-C4'-C3'	-7.21	101.61	104.50
1	AA	6700	DG	C5-C6-O6	-7.21	124.27	128.60
101	Bk	10	DG	C5-C6-O6	-7.21	124.27	128.60
1	AA	3694	DG	C5-C6-O6	-7.21	124.27	128.60
1	AA	5843	DG	O4'-C4'-C3'	-7.21	101.61	104.50
1	AA	6527	DG	C5-C6-O6	-7.21	124.27	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	AB	29	DC	P-O3'-C3'	7.21	128.35	119.70
1	AA	431	DG	C5-C6-O6	-7.21	124.27	128.60
1	AA	666	DG	C5-C6-O6	-7.21	124.27	128.60
59	B3	35	DG	C5-C6-O6	-7.21	124.27	128.60
65	B9	49	DG	C5-C6-O6	-7.21	124.27	128.60
1	AA	470	DC	O4'-C1'-N1	7.21	113.05	108.00
1	AA	3814	DG	C5-C6-O6	-7.21	124.28	128.60
1	AA	4778	DG	C5-C6-O6	-7.21	124.28	128.60
10	A8	18	DG	C5-C6-O6	-7.21	124.27	128.60
42	Ai	9	DG	C5-C6-O6	-7.21	124.28	128.60
87	BW	13	DT	O4'-C1'-C2'	-7.21	100.13	105.90
97	Bg	14	DA	P-O3'-C3'	7.21	128.35	119.70
162	Cz	6	DG	C5-C6-O6	-7.21	124.28	128.60
1	AA	4199	DG	C5-C6-O6	-7.21	124.28	128.60
1	AA	4470	DG	C5-C6-O6	-7.21	124.28	128.60
12	AC	5	DG	C5-C6-O6	-7.21	124.28	128.60
34	AY	9	DA	P-O3'-C3'	7.21	128.35	119.70
1	AA	3237	DG	C5-C6-O6	-7.21	124.28	128.60
1	AA	1785	DG	C5-C6-O6	-7.20	124.28	128.60
1	AA	2840	DG	C5-C6-O6	-7.20	124.28	128.60
1	AA	3723	DG	C5-C6-O6	-7.20	124.28	128.60
1	AA	4870	DG	C5-C6-O6	-7.20	124.28	128.60
1	AA	5446	DT	O4'-C1'-N1	7.20	113.04	108.00
46	Am	9	DG	C5-C6-O6	-7.20	124.28	128.60
46	Am	37	DT	P-O3'-C3'	7.20	128.34	119.70
59	B3	17	DG	C5-C6-O6	-7.20	124.28	128.60
102	Bl	13	DG	C5-C6-O6	-7.20	124.28	128.60
141	CX	14	DG	C5-C6-O6	-7.20	124.28	128.60
1	AA	3837	DG	C5-C6-O6	-7.20	124.28	128.60
1	AA	6472	DG	C5-C6-O6	-7.20	124.28	128.60
143	CZ	6	DG	C5-C6-O6	-7.20	124.28	128.60
1	AA	2004	DG	C5-C6-O6	-7.20	124.28	128.60
1	AA	2306	DG	C5-C6-O6	-7.20	124.28	128.60
1	AA	3304	DG	C5-C6-O6	-7.20	124.28	128.60
79	BO	9	DG	C5-C6-O6	-7.20	124.28	128.60
120	CC	43	DG	C5-C6-O6	-7.20	124.28	128.60
157	Cu	9	DG	C5-C6-O6	-7.20	124.28	128.60
1	AA	5394	DG	C5-C6-O6	-7.20	124.28	128.60
1	AA	6294	DC	O4'-C1'-C2'	-7.20	100.14	105.90
1	AA	7169	DG	C5-C6-O6	-7.20	124.28	128.60
34	AY	2	DT	O4'-C1'-C2'	-7.20	100.14	105.90
91	Ba	29	DA	C1'-O4'-C4'	-7.20	102.90	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	4857	DG	C5-C6-O6	-7.20	124.28	128.60
3	A1	41	DG	C5-C6-O6	-7.20	124.28	128.60
54	Ay	11	DT	P-O3'-C3'	7.20	128.34	119.70
100	Bj	4	DG	C5-C6-O6	-7.20	124.28	128.60
104	Bn	12	DG	C5-C6-O6	-7.20	124.28	128.60
1	AA	58	DT	P-O3'-C3'	7.20	128.33	119.70
1	AA	332	DG	P-O3'-C3'	7.20	128.33	119.70
1	AA	1641	DG	C5-C6-O6	-7.20	124.28	128.60
1	AA	1759	DG	C5-C6-O6	-7.20	124.28	128.60
1	AA	3310	DG	C5-C6-O6	-7.20	124.28	128.60
1	AA	3760	DG	C5-C6-O6	-7.20	124.28	128.60
1	AA	6619	DG	C5-C6-O6	-7.20	124.28	128.60
83	BS	46	DG	C5-C6-O6	-7.20	124.28	128.60
89	BY	47	DG	C5-C6-O6	-7.20	124.28	128.60
137	CT	33	DG	C5-C6-O6	-7.20	124.28	128.60
1	AA	704	DG	C5-C6-O6	-7.19	124.28	128.60
1	AA	2194	DG	C5-C6-O6	-7.19	124.28	128.60
1	AA	5807	DA	C5-C6-N6	-7.19	117.94	123.70
104	Bn	20	DG	C5-C6-O6	-7.19	124.28	128.60
129	CL	4	DG	O4'-C1'-N9	7.19	113.04	108.00
140	CW	36	DG	O4'-C1'-N9	7.19	113.04	108.00
40	Ag	6	DA	C4-C5-C6	7.19	120.60	117.00
1	AA	2410	DG	C5-C6-O6	-7.19	124.28	128.60
1	AA	3963	DG	O4'-C1'-N9	7.19	113.03	108.00
21	AL	28	DG	C5-C6-O6	-7.19	124.29	128.60
35	AZ	26	DA	P-O3'-C3'	7.19	128.33	119.70
46	Am	41	DG	C5-C6-O6	-7.19	124.28	128.60
106	Bp	8	DG	C5-C6-O6	-7.19	124.29	128.60
1	AA	5103	DG	C5-C6-O6	-7.19	124.29	128.60
69	BE	63	DT	O4'-C4'-C3'	-7.19	101.62	104.50
1	AA	324	DG	C5-C6-O6	-7.19	124.29	128.60
1	AA	5100	DG	C5-C6-O6	-7.19	124.29	128.60
1	AA	5499	DG	C5-C6-O6	-7.19	124.29	128.60
18	AI	38	DG	C5-C6-O6	-7.19	124.29	128.60
83	BS	3	DG	C5-C6-O6	-7.19	124.29	128.60
110	C0	36	DG	C5-C6-O6	-7.19	124.29	128.60
161	Cy	61	DG	C5-C6-O6	-7.19	124.29	128.60
1	AA	440	DG	C5-C6-O6	-7.19	124.29	128.60
1	AA	442	DG	C5-C6-O6	-7.19	124.29	128.60
1	AA	5409	DC	O4'-C1'-C2'	-7.19	100.15	105.90
1	AA	5860	DG	C5-C6-O6	-7.19	124.29	128.60
1	AA	5884	DG	C5-C6-O6	-7.19	124.29	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	237	DG	C5-C6-O6	-7.18	124.29	128.60
1	AA	448	DG	C5-C6-O6	-7.18	124.29	128.60
1	AA	1519	DG	C5-C6-O6	-7.18	124.29	128.60
1	AA	2216	DG	C5-C6-O6	-7.18	124.29	128.60
23	AN	39	DG	C5-C6-O6	-7.18	124.29	128.60
23	AN	44	DG	C5-C6-O6	-7.18	124.29	128.60
49	As	38	DG	C5-C6-O6	-7.18	124.29	128.60
71	BG	41	DG	C5-C6-O6	-7.18	124.29	128.60
78	BN	60	DG	C5-C6-O6	-7.18	124.29	128.60
1	AA	2906	DA	P-O3'-C3'	7.18	128.32	119.70
1	AA	4026	DG	C5-C6-O6	-7.18	124.29	128.60
1	AA	5087	DG	C5-C6-O6	-7.18	124.29	128.60
3	A1	34	DG	O4'-C1'-N9	7.18	113.03	108.00
21	AL	20	DG	C5-C6-O6	-7.18	124.29	128.60
34	AY	7	DG	C5-C6-O6	-7.18	124.29	128.60
38	Ad	35	DG	C5-C6-O6	-7.18	124.29	128.60
1	AA	2897	DG	C5-C6-O6	-7.18	124.29	128.60
1	AA	7033	DG	C5-C6-O6	-7.18	124.29	128.60
2	A0	16	DG	C5-C6-O6	-7.18	124.29	128.60
42	Ai	46	DG	C5-C6-O6	-7.18	124.29	128.60
114	C4	29	DG	C5-C6-O6	-7.18	124.29	128.60
23	AN	35	DG	C5-C6-O6	-7.18	124.29	128.60
150	Ch	42	DG	C5-C6-O6	-7.18	124.29	128.60
1	AA	554	DG	C5-C6-O6	-7.18	124.29	128.60
1	AA	1745	DG	C5-C6-O6	-7.18	124.29	128.60
1	AA	2573	DG	C5-C6-O6	-7.18	124.29	128.60
100	Bj	10	DG	C5-C6-O6	-7.18	124.29	128.60
1	AA	2249	DC	O4'-C1'-C2'	-7.18	100.16	105.90
1	AA	2552	DG	C5-C6-O6	-7.18	124.29	128.60
26	AQ	50	DG	C5-C6-O6	-7.18	124.30	128.60
51	Av	21	DG	C5-C6-O6	-7.18	124.29	128.60
92	Bb	47	DG	C5-C6-O6	-7.18	124.29	128.60
141	CX	4	DG	C5-C6-O6	-7.18	124.30	128.60
1	AA	344	DG	C5-C6-O6	-7.17	124.30	128.60
1	AA	406	DG	C5-C6-O6	-7.17	124.30	128.60
1	AA	2623	DA	C1'-O4'-C4'	-7.17	102.92	110.10
1	AA	3525	DG	C5-C6-O6	-7.17	124.30	128.60
1	AA	5199	DA	C5-C6-N6	-7.17	117.96	123.70
1	AA	5772	DG	C5-C6-O6	-7.17	124.30	128.60
1	AA	6749	DG	C5-C6-O6	-7.17	124.30	128.60
8	A6	40	DG	C5-C6-O6	-7.17	124.30	128.60
20	AK	47	DG	C5-C6-O6	-7.17	124.30	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
36	Ab	33	DC	N3-C4-N4	7.17	123.02	118.00
126	CI	35	DG	P-O3'-C3'	7.17	128.31	119.70
153	Cq	2	DG	C5-C6-O6	-7.17	124.30	128.60
1	AA	2186	DG	C5-C6-O6	-7.17	124.30	128.60
43	Aj	29	DG	C5-C6-O6	-7.17	124.30	128.60
57	B1	42	DG	C5-C6-O6	-7.17	124.30	128.60
59	B3	25	DG	C5-C6-O6	-7.17	124.30	128.60
95	Be	41	DG	C5-C6-O6	-7.17	124.30	128.60
103	Bm	23	DG	C5-C6-O6	-7.17	124.30	128.60
1	AA	484	DG	C5-C6-O6	-7.17	124.30	128.60
1	AA	983	DG	C5-C6-O6	-7.17	124.30	128.60
60	B4	11	DG	O4'-C1'-N9	7.17	113.02	108.00
110	C0	41	DG	C5-C6-O6	-7.17	124.30	128.60
81	BQ	22	DT	O4'-C1'-C2'	-7.17	100.16	105.90
1	AA	1143	DG	C5-C6-O6	-7.17	124.30	128.60
1	AA	3583	DG	C5-C6-O6	-7.17	124.30	128.60
7	A5	43	DG	C5-C6-O6	-7.17	124.30	128.60
28	AS	33	DG	C5-C6-O6	-7.17	124.30	128.60
96	Bf	39	DG	P-O3'-C3'	7.17	128.30	119.70
1	AA	7130	DG	C5-C6-O6	-7.17	124.30	128.60
30	AU	36	DA	P-O3'-C3'	7.17	128.30	119.70
138	CU	30	DG	C5-C6-O6	-7.17	124.30	128.60
147	Ce	10	DT	O4'-C4'-C3'	-7.17	101.63	104.50
1	AA	1270	DG	C5-C6-O6	-7.17	124.30	128.60
1	AA	6646	DG	C5-C6-O6	-7.17	124.30	128.60
13	AD	23	DA	P-O3'-C3'	7.17	128.30	119.70
95	Be	34	DG	C5-C6-O6	-7.17	124.30	128.60
1	AA	161	DG	C5-C6-O6	-7.16	124.30	128.60
1	AA	5867	DC	O4'-C4'-C3'	-7.16	101.64	104.50
13	AD	25	DG	C5-C6-O6	-7.16	124.30	128.60
35	AZ	26	DA	C5-C6-N6	-7.16	117.97	123.70
66	BB	36	DG	C5-C6-O6	-7.16	124.30	128.60
145	Cc	18	DG	C5-C6-O6	-7.16	124.30	128.60
1	AA	7157	DG	C5-C6-O6	-7.16	124.30	128.60
95	Be	8	DG	C5-C6-O6	-7.16	124.30	128.60
1	AA	283	DC	C2-N1-C1'	7.16	126.68	118.80
1	AA	693	DG	C5-C6-O6	-7.16	124.30	128.60
1	AA	7055	DG	C5-C6-O6	-7.16	124.30	128.60
55	Az	10	DA	P-O3'-C3'	7.16	128.29	119.70
77	BM	30	DG	C5-C6-O6	-7.16	124.30	128.60
96	Bf	43	DG	C5-C6-O6	-7.16	124.30	128.60
109	Bs	6	DG	C5-C6-O6	-7.16	124.30	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
109	Bs	11	DG	C5-C6-O6	-7.16	124.30	128.60
121	CD	9	DG	C5-C6-O6	-7.16	124.30	128.60
1	AA	149	DG	C5-C6-O6	-7.16	124.31	128.60
1	AA	871	DG	C5-C6-O6	-7.16	124.31	128.60
1	AA	2311	DG	C5-C6-O6	-7.16	124.31	128.60
1	AA	5112	DG	C5-C6-O6	-7.16	124.31	128.60
1	AA	7054	DC	P-O3'-C3'	7.16	128.29	119.70
128	CK	38	DG	C5-C6-O6	-7.16	124.30	128.60
1	AA	6253	DG	C5-C6-O6	-7.16	124.31	128.60
17	AH	10	DG	C5-C6-O6	-7.16	124.31	128.60
106	Bp	21	DG	C5-C6-O6	-7.16	124.31	128.60
148	Cf	15	DG	C5-C6-O6	-7.16	124.31	128.60
1	AA	670	DC	O4'-C1'-N1	7.16	113.01	108.00
1	AA	6357	DG	C5-C6-O6	-7.16	124.31	128.60
1	AA	253	DG	C5-C6-O6	-7.15	124.31	128.60
1	AA	2116	DG	C5-C6-O6	-7.15	124.31	128.60
1	AA	3329	DG	C5-C6-O6	-7.15	124.31	128.60
1	AA	4323	DG	C5-C6-O6	-7.15	124.31	128.60
13	AD	7	DG	C5-C6-O6	-7.15	124.31	128.60
43	Aj	32	DT	P-O5'-C5'	-7.15	109.45	120.90
91	Ba	25	DG	C5-C6-O6	-7.15	124.31	128.60
144	Cb	26	DG	O4'-C4'-C3'	-7.15	101.64	104.50
152	Cp	4	DG	C5-C6-O6	-7.15	124.31	128.60
14	AE	45	DG	C5-C6-O6	-7.15	124.31	128.60
29	AT	45	DA	O4'-C1'-N9	7.15	113.01	108.00
34	AY	42	DG	C5-C6-O6	-7.15	124.31	128.60
46	Am	14	DA	C4-C5-C6	7.15	120.58	117.00
55	Az	4	DG	C5-C6-O6	-7.15	124.31	128.60
118	C8	2	DG	C5-C6-O6	-7.15	124.31	128.60
156	Ct	34	DG	C5-C6-O6	-7.15	124.31	128.60
44	Ak	5	DA	C5-C6-N6	-7.15	117.98	123.70
1	AA	4675	DA	O4'-C1'-C2'	-7.15	100.18	105.90
1	AA	4865	DG	C5-C6-O6	-7.15	124.31	128.60
1	AA	5157	DG	C5-C6-O6	-7.15	124.31	128.60
27	AR	49	DG	C5-C6-O6	-7.15	124.31	128.60
105	Bo	24	DG	C5-C6-O6	-7.15	124.31	128.60
141	CX	22	DA	C5-C6-N6	-7.15	117.98	123.70
1	AA	3750	DG	C5-C6-O6	-7.15	124.31	128.60
1	AA	3844	DG	C5-C6-O6	-7.15	124.31	128.60
1	AA	6330	DG	C5-C6-O6	-7.15	124.31	128.60
106	Bp	30	DG	C5-C6-O6	-7.15	124.31	128.60
115	C5	60	DG	C5-C6-O6	-7.15	124.31	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
155	Cs	13	DG	C5-C6-O6	-7.15	124.31	128.60
1	AA	2348	DG	C5-C6-O6	-7.14	124.31	128.60
1	AA	3689	DG	C5-C6-O6	-7.14	124.31	128.60
1	AA	6304	DG	C5-C6-O6	-7.14	124.31	128.60
4	A2	40	DA	O4'-C1'-N9	7.14	113.00	108.00
1	AA	1571	DA	O4'-C4'-C3'	-7.14	101.64	104.50
1	AA	2890	DG	C5-C6-O6	-7.14	124.31	128.60
1	AA	3147	DG	C5-C6-O6	-7.14	124.31	128.60
1	AA	7075	DC	C1'-O4'-C4'	-7.14	102.96	110.10
14	AE	28	DG	C5-C6-O6	-7.14	124.31	128.60
93	Bc	48	DT	O4'-C1'-C2'	-7.14	100.19	105.90
1	AA	3395	DG	C5-C6-O6	-7.14	124.32	128.60
1	AA	4682	DG	C5-C6-O6	-7.14	124.31	128.60
51	Av	34	DG	C5-C6-O6	-7.14	124.31	128.60
91	Ba	26	DG	P-O3'-C3'	7.14	128.27	119.70
107	Bq	23	DT	P-O3'-C3'	7.14	128.27	119.70
1	AA	3367	DG	O4'-C1'-C2'	-7.14	100.19	105.90
1	AA	3444	DT	P-O3'-C3'	7.14	128.27	119.70
1	AA	4080	DG	C5-C6-O6	-7.14	124.32	128.60
37	Ac	34	DA	O4'-C1'-N9	7.14	113.00	108.00
42	Ai	8	DG	C5-C6-O6	-7.14	124.32	128.60
46	Am	42	DG	C5-C6-O6	-7.14	124.32	128.60
133	CP	6	DC	P-O3'-C3'	7.14	128.27	119.70
86	BV	1	DC	O4'-C1'-C2'	-7.14	100.19	105.90
1	AA	2081	DG	C5-C6-O6	-7.14	124.32	128.60
1	AA	4547	DG	C5-C6-O6	-7.14	124.32	128.60
1	AA	4826	DG	C5-C6-O6	-7.14	124.32	128.60
15	AF	30	DG	C5-C6-O6	-7.14	124.32	128.60
52	Aw	15	DA	C5-C6-N6	-7.14	117.99	123.70
106	Bp	31	DA	O4'-C1'-C2'	-7.14	100.19	105.90
1	AA	1085	DG	C5-C6-O6	-7.13	124.32	128.60
1	AA	4771	DA	C1'-O4'-C4'	-7.13	102.97	110.10
1	AA	6245	DT	C1'-O4'-C4'	-7.13	102.97	110.10
51	Av	41	DG	C5-C6-O6	-7.13	124.32	128.60
109	Bs	45	DG	C5-C6-O6	-7.13	124.32	128.60
125	CH	33	DG	C5-C6-O6	-7.13	124.32	128.60
151	Ck	32	DG	C5-C6-O6	-7.13	124.32	128.60
1	AA	3528	DT	O4'-C1'-C2'	-7.13	100.19	105.90
1	AA	6232	DG	C5-C6-O6	-7.13	124.32	128.60
1	AA	1255	DG	C5-C6-O6	-7.13	124.32	128.60
1	AA	4432	DG	C5-C6-O6	-7.13	124.32	128.60
6	A4	7	DG	C5-C6-O6	-7.13	124.32	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
58	B2	4	DA	C5-C6-N6	-7.13	117.99	123.70
61	B5	10	DG	C5-C6-O6	-7.13	124.32	128.60
104	Bn	23	DC	P-O3'-C3'	7.13	128.26	119.70
160	Cx	39	DA	O4'-C4'-C3'	-7.13	101.65	104.50
1	AA	1458	DG	C5-C6-O6	-7.13	124.32	128.60
1	AA	7239	DG	C5-C6-O6	-7.13	124.32	128.60
39	Af	2	DG	C5-C6-O6	-7.13	124.32	128.60
53	Ax	1	DC	P-O3'-C3'	7.13	128.26	119.70
74	BJ	42	DG	C5-C6-O6	-7.13	124.32	128.60
1	AA	944	DG	C5-C6-O6	-7.13	124.32	128.60
1	AA	1559	DG	C5-C6-O6	-7.13	124.32	128.60
1	AA	3843	DG	C5-C6-O6	-7.13	124.32	128.60
1	AA	6481	DA	P-O3'-C3'	7.13	128.25	119.70
1	AA	7097	DG	C5-C6-O6	-7.13	124.32	128.60
3	A1	42	DG	C5-C6-O6	-7.13	124.32	128.60
26	AQ	38	DG	C5-C6-O6	-7.13	124.32	128.60
63	B7	26	DA	C4-C5-C6	7.13	120.56	117.00
66	BB	1	DA	P-O3'-C3'	7.13	128.25	119.70
125	CH	11	DG	C5-C6-O6	-7.13	124.32	128.60
160	Cx	39	DA	O4'-C1'-N9	7.13	112.99	108.00
1	AA	933	DG	C5-C6-O6	-7.13	124.32	128.60
1	AA	1853	DG	C5-C6-O6	-7.13	124.32	128.60
1	AA	5427	DA	C5-C6-N6	-7.13	118.00	123.70
26	AQ	46	DG	C5-C6-O6	-7.12	124.33	128.60
141	CX	18	DG	C5-C6-O6	-7.12	124.33	128.60
1	AA	2602	DG	C5-C6-O6	-7.12	124.33	128.60
1	AA	3912	DG	C5-C6-O6	-7.12	124.33	128.60
1	AA	6085	DG	C5-C6-O6	-7.12	124.33	128.60
28	AS	32	DG	C5-C6-O6	-7.12	124.33	128.60
39	Af	5	DA	C5-C6-N6	-7.12	118.00	123.70
69	BE	51	DG	C5-C6-O6	-7.12	124.33	128.60
116	C6	41	DG	C5-C6-O6	-7.12	124.33	128.60
124	CG	33	DG	C5-C6-O6	-7.12	124.33	128.60
1	AA	269	DG	C5-C6-O6	-7.12	124.33	128.60
1	AA	711	DG	C5-C6-O6	-7.12	124.33	128.60
1	AA	1993	DG	C5-C6-O6	-7.12	124.33	128.60
1	AA	2040	DG	C5-C6-O6	-7.12	124.33	128.60
1	AA	3049	DA	C1'-O4'-C4'	-7.12	102.98	110.10
1	AA	5761	DG	C5-C6-O6	-7.12	124.33	128.60
35	AZ	16	DG	C5-C6-O6	-7.12	124.33	128.60
115	C5	29	DG	C5-C6-O6	-7.12	124.33	128.60
1	AA	3241	DA	O4'-C1'-C2'	-7.12	100.20	105.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5329	DA	C5-C6-N6	-7.12	118.00	123.70
1	AA	6156	DG	C5-C6-O6	-7.12	124.33	128.60
162	Cz	30	DA	O4'-C4'-C3'	-7.12	101.65	104.50
1	AA	4131	DG	C5-C6-O6	-7.12	124.33	128.60
1	AA	5489	DA	C1'-O4'-C4'	-7.12	102.98	110.10
1	AA	5875	DG	C5-C6-O6	-7.12	124.33	128.60
1	AA	5977	DG	P-O5'-C5'	7.12	132.29	120.90
20	AK	40	DA	C5-C6-N6	-7.12	118.01	123.70
1	AA	1083	DG	C5-C6-O6	-7.12	124.33	128.60
1	AA	3421	DA	C5-C6-N6	-7.12	118.01	123.70
1	AA	5266	DT	O4'-C4'-C3'	-7.12	101.65	104.50
1	AA	5808	DA	C5-C6-N6	-7.12	118.01	123.70
99	Bi	39	DG	O4'-C1'-N9	7.12	112.98	108.00
1	AA	2484	DG	C5-C6-O6	-7.12	124.33	128.60
1	AA	3581	DG	C5-C6-O6	-7.12	124.33	128.60
1	AA	4081	DG	C5-C6-O6	-7.12	124.33	128.60
1	AA	6473	DG	C5-C6-O6	-7.12	124.33	128.60
1	AA	4478	DG	C5-C6-O6	-7.11	124.33	128.60
1	AA	6186	DG	C5-C6-O6	-7.11	124.33	128.60
43	Aj	1	DG	C5-C6-O6	-7.11	124.33	128.60
47	An	48	DG	C5-C6-O6	-7.11	124.33	128.60
99	Bi	26	DT	P-O3'-C3'	7.11	128.24	119.70
115	C5	38	DA	C5-C6-N6	-7.11	118.01	123.70
1	AA	5756	DA	C5-C6-N6	-7.11	118.01	123.70
1	AA	6685	DG	C5-C6-O6	-7.11	124.33	128.60
1	AA	6929	DG	C5-C6-O6	-7.11	124.33	128.60
124	CG	29	DG	C5-C6-O6	-7.11	124.33	128.60
1	AA	2404	DG	C5-C6-O6	-7.11	124.33	128.60
1	AA	3154	DC	P-O3'-C3'	7.11	128.23	119.70
1	AA	4764	DG	C5-C6-O6	-7.11	124.33	128.60
18	AI	40	DC	O4'-C1'-N1	7.11	112.98	108.00
115	C5	8	DC	C4'-C3'-C2'	-7.11	96.70	103.10
1	AA	6041	DA	O4'-C1'-C2'	-7.11	100.22	105.90
4	A2	8	DG	C5-C6-O6	-7.11	124.34	128.60
35	AZ	46	DG	C5-C6-O6	-7.11	124.34	128.60
132	CO	13	DG	C5-C6-O6	-7.11	124.34	128.60
1	AA	678	DC	O4'-C1'-N1	7.11	112.97	108.00
1	AA	3936	DG	C5-C6-O6	-7.11	124.34	128.60
1	AA	4981	DG	C5-C6-O6	-7.11	124.34	128.60
1	AA	6961	DG	C5-C6-O6	-7.11	124.34	128.60
29	AT	19	DA	O4'-C1'-N9	7.11	112.97	108.00
100	Bj	15	DG	C5-C6-O6	-7.11	124.34	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
130	CM	7	DG	C5-C6-O6	-7.11	124.34	128.60
1	AA	2169	DG	C5-C6-O6	-7.10	124.34	128.60
1	AA	3524	DG	C5-C6-O6	-7.10	124.34	128.60
1	AA	5534	DG	C5-C6-O6	-7.10	124.34	128.60
5	A3	36	DG	C5-C6-O6	-7.10	124.34	128.60
101	Bk	29	DG	C5-C6-O6	-7.10	124.34	128.60
1	AA	1667	DG	C1'-O4'-C4'	-7.10	103.00	110.10
1	AA	5737	DA	C5-C6-N6	-7.10	118.02	123.70
76	BL	27	DG	C5-C6-O6	-7.10	124.34	128.60
121	CD	29	DG	C5-C6-O6	-7.10	124.34	128.60
2	A0	13	DA	C4-C5-C6	7.10	120.55	117.00
112	C2	44	DA	C5-C6-N6	-7.10	118.02	123.70
126	CI	26	DG	P-O3'-C3'	7.10	128.22	119.70
1	AA	541	DG	C5-C6-O6	-7.10	124.34	128.60
7	A5	46	DG	P-O3'-C3'	-7.10	111.18	119.70
9	A7	13	DG	C5-C6-O6	-7.10	124.34	128.60
33	AX	6	DA	O4'-C1'-C2'	-7.10	100.22	105.90
42	Ai	37	DG	C5-C6-O6	-7.10	124.34	128.60
76	BL	32	DA	C5-C6-N6	-7.10	118.02	123.70
79	BO	35	DC	O4'-C1'-N1	7.10	112.97	108.00
1	AA	2972	DG	C5-C6-O6	-7.10	124.34	128.60
1	AA	4035	DG	C5-C6-O6	-7.10	124.34	128.60
79	BO	19	DA	O4'-C4'-C3'	-7.10	101.66	104.50
87	BW	26	DG	C5-C6-O6	-7.10	124.34	128.60
152	Cp	6	DG	O4'-C4'-C3'	-7.10	101.66	104.50
75	BK	23	DC	O4'-C1'-C2'	-7.10	100.22	105.90
116	C6	39	DG	C5-C6-O6	-7.10	124.34	128.60
133	CP	30	DG	C5-C6-O6	-7.10	124.34	128.60
1	AA	2926	DG	C5-C6-O6	-7.09	124.34	128.60
43	Aj	4	DG	C5-C6-O6	-7.09	124.34	128.60
105	Bo	66	DG	C5-C6-O6	-7.09	124.34	128.60
110	C0	14	DG	C5-C6-O6	-7.09	124.34	128.60
132	CO	47	DG	C5-C6-O6	-7.09	124.34	128.60
1	AA	3732	DG	C5-C6-O6	-7.09	124.34	128.60
16	AG	21	DA	P-O3'-C3'	7.09	128.21	119.70
38	Ad	47	DG	P-O3'-C3'	7.09	128.21	119.70
104	Bn	11	DG	C5-C6-O6	-7.09	124.34	128.60
105	Bo	41	DG	C5-C6-O6	-7.09	124.34	128.60
146	Cd	11	DG	C5-C6-O6	-7.09	124.34	128.60
162	Cz	21	DG	C5-C6-O6	-7.09	124.34	128.60
133	CP	21	DG	C5-C6-O6	-7.09	124.34	128.60
153	Cq	15	DG	C5-C6-O6	-7.09	124.34	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	479	DG	C5-C6-O6	-7.09	124.35	128.60
1	AA	937	DG	C5-C6-O6	-7.09	124.35	128.60
1	AA	1229	DG	C5-C6-O6	-7.09	124.35	128.60
1	AA	2659	DG	C5-C6-O6	-7.09	124.35	128.60
1	AA	2818	DG	C5-C6-O6	-7.09	124.35	128.60
1	AA	5426	DG	C5-C6-O6	-7.09	124.35	128.60
19	AJ	52	DG	C5-C6-O6	-7.09	124.35	128.60
31	AV	3	DC	O4'-C1'-N1	7.09	112.96	108.00
46	Am	5	DG	C5-C6-O6	-7.09	124.35	128.60
129	CL	20	DA	C5-C6-N6	-7.09	118.03	123.70
159	Cw	41	DG	C5-C6-O6	-7.09	124.35	128.60
1	AA	3029	DG	C5-C6-O6	-7.09	124.35	128.60
1	AA	3953	DG	C5-C6-O6	-7.09	124.35	128.60
1	AA	4794	DG	C5-C6-O6	-7.09	124.35	128.60
1	AA	6432	DC	O4'-C1'-C2'	-7.09	100.23	105.90
56	B0	2	DC	O4'-C1'-N1	7.09	112.96	108.00
141	CX	20	DG	C5-C6-O6	-7.09	124.35	128.60
1	AA	1783	DG	C5-C6-O6	-7.08	124.35	128.60
1	AA	1895	DA	O4'-C4'-C3'	-7.08	101.67	104.50
1	AA	3947	DT	O4'-C1'-N1	7.08	112.96	108.00
1	AA	3889	DG	C5-C6-O6	-7.08	124.35	128.60
56	B0	7	DG	C5-C6-O6	-7.08	124.35	128.60
149	Cg	15	DG	C5-C6-O6	-7.08	124.35	128.60
1	AA	9	DG	O4'-C1'-C2'	-7.08	100.23	105.90
1	AA	230	DG	C5-C6-O6	-7.08	124.35	128.60
1	AA	1595	DA	O4'-C1'-C2'	-7.08	100.23	105.90
16	AG	26	DG	C5-C6-O6	-7.08	124.35	128.60
103	Bm	21	DA	P-O3'-C3'	7.08	128.20	119.70
115	C5	43	DA	P-O3'-C3'	7.08	128.20	119.70
125	CH	35	DG	C5-C6-O6	-7.08	124.35	128.60
162	Cz	45	DG	C5-C6-O6	-7.08	124.35	128.60
63	B7	30	DG	C5-C6-O6	-7.08	124.35	128.60
96	Bf	39	DG	C5-C6-O6	-7.08	124.35	128.60
1	AA	1672	DG	C5-C6-O6	-7.08	124.35	128.60
1	AA	2537	DG	C5-C6-O6	-7.08	124.35	128.60
1	AA	6724	DG	C5-C6-O6	-7.08	124.35	128.60
9	A7	38	DC	O4'-C1'-N1	7.08	112.96	108.00
107	Bq	48	DG	C5-C6-O6	-7.08	124.35	128.60
126	CI	22	DG	C5-C6-O6	-7.08	124.35	128.60
1	AA	565	DC	O4'-C1'-C2'	-7.08	100.24	105.90
1	AA	3951	DG	C5-C6-O6	-7.08	124.35	128.60
26	AQ	24	DG	C5-C6-O6	-7.08	124.35	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	295	DG	C5-C6-O6	-7.08	124.36	128.60
1	AA	1414	DG	C5-C6-O6	-7.08	124.35	128.60
1	AA	1467	DG	C5-C6-O6	-7.08	124.36	128.60
1	AA	5316	DG	C5-C6-O6	-7.08	124.36	128.60
108	Br	31	DG	C5-C6-O6	-7.08	124.36	128.60
124	CG	41	DG	C5-C6-O6	-7.08	124.35	128.60
131	CN	21	DG	C5-C6-O6	-7.08	124.35	128.60
1	AA	157	DG	C5-C6-O6	-7.07	124.36	128.60
1	AA	177	DG	C5-C6-O6	-7.07	124.36	128.60
1	AA	2495	DG	C5-C6-O6	-7.07	124.36	128.60
1	AA	4699	DG	C5-C6-O6	-7.07	124.36	128.60
1	AA	5749	DG	C5-C6-O6	-7.07	124.36	128.60
27	AR	37	DG	C5-C6-O6	-7.07	124.36	128.60
66	BB	3	DG	C5-C6-O6	-7.07	124.36	128.60
1	AA	7223	DG	C5-C6-O6	-7.07	124.36	128.60
1	AA	94	DG	C5-C6-O6	-7.07	124.36	128.60
1	AA	3952	DG	C5-C6-O6	-7.07	124.36	128.60
1	AA	3996	DG	C5-C6-O6	-7.07	124.36	128.60
1	AA	6898	DG	C5-C6-O6	-7.07	124.36	128.60
8	A6	17	DA	O4'-C1'-C2'	-7.07	100.24	105.90
20	AK	34	DA	O4'-C4'-C3'	-7.07	101.67	104.50
77	BM	51	DG	C5-C6-O6	-7.07	124.36	128.60
82	BR	55	DG	C5-C6-O6	-7.07	124.36	128.60
105	Bo	39	DG	C5-C6-O6	-7.07	124.36	128.60
137	CT	31	DG	C5-C6-O6	-7.07	124.36	128.60
1	AA	1595	DA	O4'-C4'-C3'	-7.07	101.67	104.50
60	B4	13	DG	C5-C6-O6	-7.07	124.36	128.60
1	AA	427	DG	C5-C6-O6	-7.07	124.36	128.60
1	AA	6485	DG	C5-C6-O6	-7.07	124.36	128.60
129	CL	23	DC	O4'-C1'-N1	7.07	112.95	108.00
155	Cs	6	DA	C5-C6-N6	-7.07	118.05	123.70
1	AA	95	DG	C5-C6-O6	-7.07	124.36	128.60
1	AA	2296	DT	O4'-C1'-C2'	-7.07	100.25	105.90
1	AA	3159	DG	C5-C6-O6	-7.07	124.36	128.60
39	Af	41	DG	C5-C6-O6	-7.07	124.36	128.60
59	B3	38	DA	O4'-C4'-C3'	-7.07	101.67	104.50
99	Bi	61	DG	C5-C6-O6	-7.07	124.36	128.60
1	AA	5993	DA	O4'-C4'-C3'	-7.06	101.67	104.50
79	BO	40	DG	C5-C6-O6	-7.06	124.36	128.60
1	AA	2665	DA	C5-C6-N6	-7.06	118.05	123.70
1	AA	4974	DG	C5-C6-O6	-7.06	124.36	128.60
21	AL	14	DC	C6-N1-C1'	-7.06	112.33	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
33	AX	40	DC	N3-C4-N4	7.06	122.94	118.00
44	Ak	16	DA	C5-C6-N6	-7.06	118.05	123.70
58	B2	23	DA	P-O3'-C3'	7.06	128.18	119.70
96	Bf	23	DG	C5-C6-O6	-7.06	124.36	128.60
125	CH	4	DG	C5-C6-O6	-7.06	124.36	128.60
134	CQ	3	DC	O4'-C1'-N1	7.06	112.94	108.00
1	AA	1178	DG	C5-C6-O6	-7.06	124.36	128.60
1	AA	1322	DA	C5-C6-N6	-7.06	118.05	123.70
108	Br	13	DC	O4'-C1'-C2'	-7.06	100.25	105.90
1	AA	3834	DG	C5-C6-O6	-7.06	124.36	128.60
1	AA	4487	DA	C5-C6-N6	-7.06	118.05	123.70
3	A1	27	DC	O4'-C1'-N1	7.06	112.94	108.00
14	AE	25	DG	C5-C6-O6	-7.06	124.36	128.60
101	Bk	27	DG	C5-C6-O6	-7.06	124.36	128.60
138	CU	13	DC	C1'-O4'-C4'	-7.06	103.04	110.10
147	Ce	34	DG	C5-C6-O6	-7.06	124.36	128.60
1	AA	2155	DG	C5-C6-O6	-7.06	124.36	128.60
1	AA	2596	DG	C5-C6-O6	-7.06	124.36	128.60
1	AA	6564	DG	C5-C6-O6	-7.06	124.36	128.60
10	A8	47	DG	O4'-C1'-N9	7.06	112.94	108.00
34	AY	3	DG	O4'-C1'-C2'	-7.06	100.25	105.90
41	Ah	22	DG	C5-C6-O6	-7.06	124.37	128.60
53	Ax	23	DG	C5-C6-O6	-7.06	124.36	128.60
88	BX	10	DG	C5-C6-O6	-7.06	124.36	128.60
1	AA	188	DG	C5-C6-O6	-7.06	124.37	128.60
1	AA	452	DG	C5-C6-O6	-7.06	124.37	128.60
1	AA	4806	DG	C5-C6-O6	-7.06	124.37	128.60
97	Bg	36	DA	C5-C6-N6	-7.06	118.06	123.70
99	Bi	47	DA	C5-C6-N6	-7.06	118.06	123.70
104	Bn	61	DG	C5-C6-O6	-7.06	124.37	128.60
1	AA	251	DA	O4'-C1'-C2'	-7.05	100.26	105.90
1	AA	1336	DG	C5-C6-O6	-7.05	124.37	128.60
1	AA	3989	DG	C5-C6-O6	-7.05	124.37	128.60
33	AX	2	DG	C5-C6-O6	-7.05	124.37	128.60
72	BH	40	DG	C5-C6-O6	-7.05	124.37	128.60
91	Ba	21	DG	C5-C6-O6	-7.05	124.37	128.60
121	CD	1	DA	P-O3'-C3'	7.05	128.17	119.70
1	AA	700	DG	C5-C6-O6	-7.05	124.37	128.60
1	AA	705	DG	C5-C6-O6	-7.05	124.37	128.60
1	AA	1875	DG	C5-C6-O6	-7.05	124.37	128.60
1	AA	3255	DC	O4'-C1'-C2'	-7.05	100.26	105.90
1	AA	5688	DA	C5-C6-N6	-7.05	118.06	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	4586	DG	C5-C6-O6	-7.05	124.37	128.60
1	AA	5049	DG	P-O3'-C3'	7.05	128.16	119.70
1	AA	5191	DA	C5-C6-N6	-7.05	118.06	123.70
89	BY	45	DG	P-O3'-C3'	7.05	128.16	119.70
1	AA	3874	DG	C5-C6-O6	-7.05	124.37	128.60
18	AI	30	DG	C5-C6-O6	-7.05	124.37	128.60
104	Bn	45	DG	C5-C6-O6	-7.05	124.37	128.60
1	AA	6062	DA	C5-C6-N6	-7.05	118.06	123.70
35	AZ	12	DG	C5-C6-O6	-7.05	124.37	128.60
61	B5	30	DG	C5-C6-O6	-7.05	124.37	128.60
96	Bf	46	DG	C5-C6-O6	-7.05	124.37	128.60
98	Bh	1	DG	C5-C6-O6	-7.05	124.37	128.60
106	Bp	36	DG	C5-C6-O6	-7.05	124.37	128.60
108	Br	7	DG	C5-C6-O6	-7.05	124.37	128.60
159	Cw	27	DA	P-O3'-C3'	7.05	128.16	119.70
161	Cy	3	DG	C5-C6-O6	-7.05	124.37	128.60
1	AA	2450	DG	C5-C6-O6	-7.04	124.37	128.60
1	AA	3309	DG	C5-C6-O6	-7.04	124.37	128.60
48	Ao	14	DA	C4-C5-C6	7.04	120.52	117.00
1	AA	782	DG	C5-C6-O6	-7.04	124.37	128.60
1	AA	1198	DG	C5-C6-O6	-7.04	124.37	128.60
1	AA	4762	DG	C5-C6-O6	-7.04	124.37	128.60
1	AA	5993	DA	O4'-C1'-C2'	-7.04	100.26	105.90
1	AA	7110	DC	O4'-C1'-C2'	-7.04	100.27	105.90
1	AA	7158	DG	C5-C6-O6	-7.04	124.37	128.60
48	Ao	1	DG	C5-C6-O6	-7.04	124.37	128.60
55	Az	44	DG	C5-C6-O6	-7.04	124.37	128.60
139	CV	53	DG	C5-C6-O6	-7.04	124.37	128.60
152	Cp	47	DA	O4'-C4'-C3'	-7.04	101.68	104.50
1	AA	1018	DG	C5-C6-O6	-7.04	124.38	128.60
1	AA	2680	DG	C5-C6-O6	-7.04	124.38	128.60
1	AA	3804	DG	C5-C6-O6	-7.04	124.38	128.60
1	AA	6672	DG	C5-C6-O6	-7.04	124.38	128.60
20	AK	60	DG	C5-C6-O6	-7.04	124.38	128.60
68	BD	14	DG	C5-C6-O6	-7.04	124.38	128.60
91	Ba	26	DG	C5-C6-O6	-7.04	124.38	128.60
94	Bd	49	DG	C5-C6-O6	-7.04	124.38	128.60
115	C5	61	DG	C5-C6-O6	-7.04	124.38	128.60
126	CI	42	DA	P-O3'-C3'	7.04	128.15	119.70
1	AA	2187	DG	C5-C6-O6	-7.04	124.38	128.60
1	AA	303	DG	C5-C6-O6	-7.04	124.38	128.60
1	AA	4664	DG	C5-C6-O6	-7.04	124.38	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5742	DG	C5-C6-O6	-7.04	124.38	128.60
1	AA	5887	DG	C5-C6-O6	-7.04	124.38	128.60
13	AD	15	DG	C5-C6-O6	-7.04	124.38	128.60
62	B6	30	DG	C5-C6-O6	-7.04	124.38	128.60
77	BM	39	DG	C5-C6-O6	-7.04	124.38	128.60
105	Bo	19	DG	C5-C6-O6	-7.04	124.38	128.60
1	AA	2725	DG	C5-C6-O6	-7.04	124.38	128.60
1	AA	5401	DA	C1'-O4'-C4'	-7.04	103.06	110.10
1	AA	5435	DA	C5-C6-N6	-7.04	118.07	123.70
129	CL	1	DA	O4'-C1'-N9	7.04	112.92	108.00
1	AA	1986	DG	C5-C6-O6	-7.03	124.38	128.60
1	AA	2372	DA	C5-C6-N6	-7.03	118.07	123.70
1	AA	6404	DG	C5-C6-O6	-7.03	124.38	128.60
9	A7	25	DC	P-O3'-C3'	7.03	128.14	119.70
11	AB	30	DG	C5-C6-O6	-7.03	124.38	128.60
58	B2	4	DA	O4'-C1'-C2'	-7.03	100.27	105.90
61	B5	8	DG	C5-C6-O6	-7.03	124.38	128.60
74	BJ	40	DG	C5-C6-O6	-7.03	124.38	128.60
84	BT	19	DG	C5-C6-O6	-7.03	124.38	128.60
161	Cy	4	DG	C5-C6-O6	-7.03	124.38	128.60
12	AC	9	DG	C5-C6-O6	-7.03	124.38	128.60
115	C5	31	DG	C5-C6-O6	-7.03	124.38	128.60
1	AA	2140	DG	C5-C6-O6	-7.03	124.38	128.60
1	AA	2470	DG	P-O3'-C3'	7.03	128.14	119.70
29	AT	37	DG	C5-C6-O6	-7.03	124.38	128.60
123	CF	14	DC	C4'-C3'-C2'	-7.03	96.77	103.10
140	CW	22	DA	P-O3'-C3'	7.03	128.14	119.70
1	AA	1177	DG	C5-C6-O6	-7.03	124.38	128.60
1	AA	1925	DA	C5-C6-N6	-7.03	118.08	123.70
10	A8	8	DG	O4'-C1'-N9	7.03	112.92	108.00
56	B0	9	DG	C5-C6-O6	-7.03	124.38	128.60
109	Bs	38	DG	C5-C6-O6	-7.03	124.38	128.60
1	AA	2528	DG	C5-C6-O6	-7.03	124.38	128.60
1	AA	3888	DG	C5-C6-O6	-7.03	124.38	128.60
1	AA	5631	DG	C5-C6-O6	-7.03	124.38	128.60
102	Bl	27	DG	C5-C6-O6	-7.03	124.38	128.60
108	Br	50	DG	C5-C6-O6	-7.03	124.38	128.60
123	CF	20	DA	C5-C6-N6	-7.03	118.08	123.70
1	AA	3468	DG	C5-C6-O6	-7.03	124.38	128.60
1	AA	3817	DG	C5-C6-O6	-7.03	124.38	128.60
1	AA	4098	DG	C5-C6-O6	-7.03	124.39	128.60
3	A1	23	DA	P-O3'-C3'	7.03	128.13	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	BE	36	DG	C5-C6-O6	-7.03	124.39	128.60
77	BM	52	DG	C5-C6-O6	-7.03	124.39	128.60
96	Bf	7	DG	C5-C6-O6	-7.03	124.38	128.60
71	BG	42	DG	C5-C6-O6	-7.02	124.39	128.60
101	Bk	41	DT	P-O3'-C3'	7.02	128.13	119.70
102	Bl	5	DG	C5-C6-O6	-7.02	124.39	128.60
1	AA	3688	DG	C5-C6-O6	-7.02	124.39	128.60
18	AI	44	DA	C5-C6-N6	-7.02	118.08	123.70
87	BW	48	DG	C5-C6-O6	-7.02	124.39	128.60
1	AA	1020	DG	C5-C6-O6	-7.02	124.39	128.60
1	AA	1509	DG	C5-C6-O6	-7.02	124.39	128.60
7	A5	16	DG	C5-C6-O6	-7.02	124.39	128.60
58	B2	20	DG	C5-C6-O6	-7.02	124.39	128.60
65	B9	15	DG	C5-C6-O6	-7.02	124.39	128.60
1	AA	659	DG	C5-C6-O6	-7.02	124.39	128.60
1	AA	712	DG	C5-C6-O6	-7.02	124.39	128.60
1	AA	996	DG	C5-C6-O6	-7.02	124.39	128.60
1	AA	2367	DG	C5-C6-O6	-7.02	124.39	128.60
1	AA	4169	DC	O4'-C1'-C2'	-7.02	100.28	105.90
93	Bc	18	DG	C5-C6-O6	-7.02	124.39	128.60
135	CR	22	DG	C5-C6-O6	-7.02	124.39	128.60
145	Cc	41	DG	C5-C6-O6	-7.02	124.39	128.60
1	AA	2849	DG	C5-C6-O6	-7.02	124.39	128.60
1	AA	6823	DG	C5-C6-O6	-7.02	124.39	128.60
9	A7	35	DC	O4'-C1'-N1	7.02	112.91	108.00
69	BE	48	DG	C5-C6-O6	-7.02	124.39	128.60
82	BR	64	DG	C5-C6-O6	-7.02	124.39	128.60
125	CH	22	DG	C5-C6-O6	-7.02	124.39	128.60
139	CV	6	DG	C5-C6-O6	-7.02	124.39	128.60
141	CX	23	DA	C5-C6-N6	-7.02	118.09	123.70
1	AA	4141	DG	C5-C6-O6	-7.02	124.39	128.60
29	AT	36	DG	C5-C6-O6	-7.02	124.39	128.60
50	Au	17	DG	C5-C6-O6	-7.02	124.39	128.60
1	AA	2727	DG	O4'-C1'-C2'	-7.01	100.29	105.90
1	AA	5546	DG	C5-C6-O6	-7.01	124.39	128.60
4	A2	9	DA	O4'-C1'-N9	7.01	112.91	108.00
82	BR	60	DG	C5-C6-O6	-7.01	124.39	128.60
119	CB	23	DG	C5-C6-O6	-7.01	124.39	128.60
1	AA	3619	DG	C5-C6-O6	-7.01	124.39	128.60
1	AA	7037	DG	C5-C6-O6	-7.01	124.39	128.60
18	AI	14	DG	C5-C6-O6	-7.01	124.39	128.60
65	B9	17	DG	P-O3'-C3'	7.01	128.12	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1060	DG	C5-C6-O6	-7.01	124.39	128.60
1	AA	3678	DG	C5-C6-O6	-7.01	124.39	128.60
1	AA	5130	DG	C5-C6-O6	-7.01	124.39	128.60
31	AV	10	DG	C5-C6-O6	-7.01	124.39	128.60
147	Ce	25	DT	O4'-C4'-C3'	-7.01	101.69	104.50
1	AA	473	DG	C5-C6-O6	-7.01	124.39	128.60
1	AA	3442	DG	C5-C6-O6	-7.01	124.39	128.60
1	AA	6787	DG	C5-C6-O6	-7.01	124.39	128.60
1	AA	7050	DG	C5-C6-O6	-7.01	124.39	128.60
16	AG	13	DG	C5-C6-O6	-7.01	124.39	128.60
48	Ao	14	DA	O4'-C1'-C2'	-7.01	100.29	105.90
85	BU	7	DG	C5-C6-O6	-7.01	124.39	128.60
89	BY	27	DA	C4-C5-C6	7.01	120.50	117.00
92	Bb	6	DG	C5-C6-O6	-7.01	124.39	128.60
1	AA	349	DG	C5-C6-O6	-7.01	124.39	128.60
120	CC	24	DA	P-O3'-C3'	7.01	128.11	119.70
1	AA	396	DG	C5-C6-O6	-7.01	124.40	128.60
1	AA	615	DG	C5-C6-O6	-7.01	124.40	128.60
1	AA	1501	DG	C5-C6-O6	-7.01	124.40	128.60
1	AA	3724	DG	C5-C6-O6	-7.01	124.40	128.60
1	AA	3907	DG	C5-C6-O6	-7.01	124.40	128.60
1	AA	6872	DA	C1'-O4'-C4'	-7.01	103.09	110.10
23	AN	14	DG	C5-C6-O6	-7.01	124.40	128.60
65	B9	19	DG	C5-C6-O6	-7.01	124.40	128.60
115	C5	55	DT	C1'-O4'-C4'	-7.01	103.09	110.10
116	C6	32	DA	C5-C6-N6	-7.01	118.09	123.70
129	CL	35	DG	C5-C6-O6	-7.01	124.40	128.60
1	AA	3801	DG	C5-C6-O6	-7.00	124.40	128.60
1	AA	4424	DG	C5-C6-O6	-7.00	124.40	128.60
1	AA	4510	DT	P-O3'-C3'	7.00	128.11	119.70
1	AA	7176	DG	C5-C6-O6	-7.00	124.40	128.60
63	B7	5	DG	C5-C6-O6	-7.00	124.40	128.60
105	Bo	14	DT	C1'-O4'-C4'	-7.00	103.09	110.10
1	AA	70	DG	C5-C6-O6	-7.00	124.40	128.60
1	AA	936	DG	C5-C6-O6	-7.00	124.40	128.60
1	AA	1267	DG	C5-C6-O6	-7.00	124.40	128.60
1	AA	2158	DG	C5-C6-O6	-7.00	124.40	128.60
1	AA	2912	DG	C5-C6-O6	-7.00	124.40	128.60
1	AA	2997	DG	C5-C6-O6	-7.00	124.40	128.60
1	AA	3859	DG	C5-C6-O6	-7.00	124.40	128.60
1	AA	5863	DG	C5-C6-O6	-7.00	124.40	128.60
1	AA	5897	DC	O4'-C4'-C3'	-7.00	101.70	104.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	7140	DG	C5-C6-O6	-7.00	124.40	128.60
92	Bb	9	DG	C5-C6-O6	-7.00	124.40	128.60
125	CH	18	DC	O4'-C1'-N1	7.00	112.90	108.00
137	CT	48	DG	C5-C6-O6	-7.00	124.40	128.60
142	CY	31	DA	C1'-O4'-C4'	-7.00	103.10	110.10
1	AA	4554	DG	C5-C6-O6	-7.00	124.40	128.60
1	AA	6076	DG	C5-C6-O6	-7.00	124.40	128.60
102	Bl	42	DG	C5-C6-O6	-7.00	124.40	128.60
106	Bp	46	DG	C5-C6-O6	-7.00	124.40	128.60
116	C6	46	DG	C5-C6-O6	-7.00	124.40	128.60
135	CR	15	DG	C5-C6-O6	-7.00	124.40	128.60
1	AA	4464	DG	C5-C6-O6	-7.00	124.40	128.60
1	AA	563	DG	C5-C6-O6	-7.00	124.40	128.60
1	AA	1872	DG	C5-C6-O6	-7.00	124.40	128.60
1	AA	6450	DA	C5-C6-N6	-7.00	118.10	123.70
68	BD	28	DG	C5-C6-O6	-7.00	124.40	128.60
123	CF	36	DA	C5-C6-N6	-7.00	118.10	123.70
153	Cq	20	DG	C5-C6-O6	-7.00	124.40	128.60
1	AA	106	DG	C5-C6-O6	-7.00	124.40	128.60
1	AA	808	DG	C5-C6-O6	-7.00	124.40	128.60
1	AA	1841	DG	C5-C6-O6	-7.00	124.40	128.60
1	AA	2419	DG	C5-C6-O6	-7.00	124.40	128.60
1	AA	4260	DG	C5-C6-O6	-7.00	124.40	128.60
15	AF	42	DG	C5-C6-O6	-7.00	124.40	128.60
59	B3	11	DG	C5-C6-O6	-7.00	124.40	128.60
142	CY	31	DA	O4'-C1'-C2'	-7.00	100.30	105.90
160	Cx	34	DG	C5-C6-O6	-7.00	124.40	128.60
1	AA	1943	DA	C1'-O4'-C4'	-7.00	103.11	110.10
1	AA	3840	DG	C5-C6-O6	-7.00	124.40	128.60
1	AA	3870	DG	C5-C6-O6	-7.00	124.40	128.60
1	AA	5599	DG	C5-C6-O6	-7.00	124.40	128.60
89	BY	45	DG	C5-C6-O6	-7.00	124.40	128.60
1	AA	380	DG	C5-C6-O6	-6.99	124.40	128.60
1	AA	2544	DG	C5-C6-O6	-6.99	124.40	128.60
1	AA	2930	DG	C5-C6-O6	-6.99	124.40	128.60
1	AA	4137	DG	C5-C6-O6	-6.99	124.40	128.60
5	A3	34	DA	C5-C6-N6	-6.99	118.11	123.70
14	AE	9	DG	C5-C6-O6	-6.99	124.40	128.60
20	AK	50	DG	C5-C6-O6	-6.99	124.40	128.60
26	AQ	55	DG	P-O3'-C3'	6.99	128.09	119.70
97	Bg	4	DG	C5-C6-O6	-6.99	124.40	128.60
152	Cp	43	DA	C5-C6-N6	-6.99	118.11	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1567	DA	C5-C6-N6	-6.99	118.11	123.70
1	AA	2341	DG	C5-C6-O6	-6.99	124.41	128.60
1	AA	5227	DA	O4'-C1'-C2'	-6.99	100.31	105.90
85	BU	13	DG	C5-C6-O6	-6.99	124.41	128.60
1	AA	267	DG	C5-C6-O6	-6.99	124.41	128.60
1	AA	1399	DG	C5-C6-O6	-6.99	124.41	128.60
1	AA	2003	DG	C5-C6-O6	-6.99	124.41	128.60
1	AA	4469	DG	C5-C6-O6	-6.99	124.41	128.60
33	AX	47	DG	C5-C6-O6	-6.99	124.41	128.60
100	Bj	21	DG	C5-C6-O6	-6.99	124.41	128.60
147	Ce	30	DG	C5-C6-O6	-6.99	124.41	128.60
1	AA	541	DG	O4'-C4'-C3'	-6.99	101.70	104.50
1	AA	2612	DG	P-O3'-C3'	6.99	128.09	119.70
1	AA	4125	DG	C5-C6-O6	-6.99	124.41	128.60
1	AA	6547	DG	C5-C6-O6	-6.99	124.41	128.60
23	AN	24	DC	O4'-C4'-C3'	-6.99	101.70	104.50
58	B2	24	DG	C5-C6-O6	-6.99	124.41	128.60
65	B9	5	DA	P-O3'-C3'	6.99	128.09	119.70
118	C8	38	DG	C5-C6-O6	-6.99	124.41	128.60
120	CC	11	DT	O4'-C1'-N1	6.99	112.89	108.00
124	CG	25	DT	O4'-C4'-C3'	-6.99	101.70	104.50
1	AA	1594	DG	C5-C6-O6	-6.99	124.41	128.60
1	AA	5885	DA	O4'-C1'-C2'	-6.99	100.31	105.90
1	AA	6859	DG	C5-C6-O6	-6.99	124.41	128.60
1	AA	133	DG	C5-C6-O6	-6.99	124.41	128.60
1	AA	2767	DG	C5-C6-O6	-6.99	124.41	128.60
1	AA	2883	DC	N3-C4-N4	6.99	122.89	118.00
52	Aw	1	DG	C5-C6-O6	-6.99	124.41	128.60
68	BD	2	DG	C5-C6-O6	-6.99	124.41	128.60
68	BD	9	DG	C5-C6-O6	-6.99	124.41	128.60
82	BR	57	DG	C5-C6-O6	-6.99	124.41	128.60
109	Bs	31	DG	C5-C6-O6	-6.99	124.41	128.60
114	C4	1	DG	C5-C6-O6	-6.99	124.41	128.60
154	Cr	7	DG	C5-C6-O6	-6.99	124.41	128.60
1	AA	1331	DG	O4'-C1'-C2'	-6.98	100.31	105.90
1	AA	2412	DG	C5-C6-O6	-6.98	124.41	128.60
1	AA	5956	DG	C5-C6-O6	-6.98	124.41	128.60
1	AA	6089	DC	O4'-C1'-C2'	-6.98	100.31	105.90
79	BO	41	DG	C5-C6-O6	-6.98	124.41	128.60
1	AA	5313	DA	C5-C6-N6	-6.98	118.11	123.70
1	AA	5723	DA	C1'-O4'-C4'	-6.98	103.12	110.10
10	A8	24	DG	C5-C6-O6	-6.98	124.41	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
18	AI	37	DA	P-O3'-C3'	6.98	128.08	119.70
67	BC	36	DG	C5-C6-O6	-6.98	124.41	128.60
98	Bh	36	DG	C5-C6-O6	-6.98	124.41	128.60
108	Br	30	DG	C5-C6-O6	-6.98	124.41	128.60
1	AA	2287	DG	C5-C6-O6	-6.98	124.41	128.60
1	AA	3107	DA	C5-C6-N6	-6.98	118.12	123.70
1	AA	5121	DG	C5-C6-O6	-6.98	124.41	128.60
1	AA	5587	DA	O4'-C4'-C3'	-6.98	101.71	104.50
21	AL	35	DG	C5-C6-O6	-6.98	124.41	128.60
38	Ad	14	DA	C5-C6-N6	-6.98	118.11	123.70
67	BC	18	DG	C5-C6-O6	-6.98	124.41	128.60
69	BE	30	DG	C5-C6-O6	-6.98	124.41	128.60
91	Ba	9	DG	C5-C6-O6	-6.98	124.41	128.60
122	CE	23	DA	C5-C6-N6	-6.98	118.11	123.70
127	CJ	35	DG	C5-C6-O6	-6.98	124.41	128.60
1	AA	620	DG	C5-C6-O6	-6.98	124.41	128.60
1	AA	3795	DG	C5-C6-O6	-6.98	124.41	128.60
1	AA	5216	DG	C5-C6-O6	-6.98	124.41	128.60
1	AA	5794	DG	C5-C6-O6	-6.98	124.41	128.60
1	AA	6661	DC	O4'-C4'-C3'	-6.98	101.71	104.50
125	CH	14	DG	C5-C6-O6	-6.98	124.41	128.60
1	AA	3825	DG	C5-C6-O6	-6.98	124.41	128.60
1	AA	5318	DA	C5-C6-N6	-6.98	118.12	123.70
1	AA	6761	DG	C5-C6-O6	-6.98	124.41	128.60
9	A7	23	DG	C5-C6-O6	-6.98	124.41	128.60
11	AB	15	DG	C5-C6-O6	-6.98	124.41	128.60
15	AF	47	DG	C5-C6-O6	-6.98	124.41	128.60
51	Av	30	DG	C5-C6-O6	-6.98	124.41	128.60
54	Ay	6	DG	C5-C6-O6	-6.98	124.41	128.60
106	Bp	15	DG	C5-C6-O6	-6.98	124.41	128.60
124	CG	1	DG	C5-C6-O6	-6.98	124.41	128.60
137	CT	25	DA	O4'-C4'-C3'	-6.98	101.71	104.50
1	AA	166	DG	C5-C6-O6	-6.98	124.41	128.60
75	BK	7	DC	C1'-O4'-C4'	-6.98	103.12	110.10
84	BT	47	DG	C5-C6-O6	-6.98	124.41	128.60
31	AV	7	DG	C5-C6-O6	-6.97	124.42	128.60
43	Aj	62	DG	C5-C6-O6	-6.97	124.42	128.60
86	BV	9	DG	C5-C6-O6	-6.97	124.42	128.60
96	Bf	21	DG	C5-C6-O6	-6.97	124.42	128.60
123	CF	14	DC	N3-C4-N4	6.97	122.88	118.00
1	AA	886	DG	C5-C6-O6	-6.97	124.42	128.60
1	AA	999	DG	C5-C6-O6	-6.97	124.42	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2607	DG	C5-C6-O6	-6.97	124.42	128.60
1	AA	4779	DG	C5-C6-O6	-6.97	124.42	128.60
6	A4	6	DA	P-O3'-C3'	6.97	128.07	119.70
26	AQ	1	DG	C5-C6-O6	-6.97	124.42	128.60
87	BW	6	DG	C5-C6-O6	-6.97	124.42	128.60
98	Bh	6	DG	C5-C6-O6	-6.97	124.42	128.60
159	Cw	5	DG	C5-C6-O6	-6.97	124.42	128.60
1	AA	6175	DG	C5-C6-O6	-6.97	124.42	128.60
145	Cc	28	DT	P-O3'-C3'	6.97	128.07	119.70
1	AA	7133	DT	O4'-C1'-C2'	-6.97	100.33	105.90
3	A1	37	DG	C5-C6-O6	-6.97	124.42	128.60
12	AC	39	DG	C5-C6-O6	-6.97	124.42	128.60
74	BJ	3	DT	O4'-C1'-N1	6.97	112.88	108.00
130	CM	6	DA	C5-C6-N6	-6.97	118.12	123.70
139	CV	2	DG	C5-C6-O6	-6.97	124.42	128.60
2	A0	45	DG	O4'-C4'-C3'	-6.97	101.71	104.50
68	BD	17	DG	C5-C6-O6	-6.97	124.42	128.60
1	AA	352	DG	C5-C6-O6	-6.97	124.42	128.60
1	AA	714	DG	C5-C6-O6	-6.97	124.42	128.60
1	AA	1278	DG	C5-C6-O6	-6.97	124.42	128.60
51	Av	7	DG	C5-C6-O6	-6.97	124.42	128.60
120	CC	1	DG	C5-C6-O6	-6.97	124.42	128.60
129	CL	31	DG	C5-C6-O6	-6.97	124.42	128.60
155	Cs	24	DG	C5-C6-O6	-6.97	124.42	128.60
159	Cw	45	DA	P-O3'-C3'	6.97	128.06	119.70
36	Ab	23	DG	C5-C6-O6	-6.96	124.42	128.60
46	Am	25	DG	C5-C6-O6	-6.96	124.42	128.60
115	C5	19	DG	C5-C6-O6	-6.96	124.42	128.60
129	CL	47	DA	O4'-C1'-N9	6.96	112.88	108.00
1	AA	1423	DG	C5-C6-O6	-6.96	124.42	128.60
1	AA	6739	DG	C5-C6-O6	-6.96	124.42	128.60
1	AA	7156	DG	C5-C6-O6	-6.96	124.42	128.60
18	AI	20	DG	C5-C6-O6	-6.96	124.42	128.60
61	B5	5	DG	C5-C6-O6	-6.96	124.42	128.60
1	AA	2631	DG	C1'-O4'-C4'	-6.96	103.14	110.10
29	AT	5	DG	C5-C6-O6	-6.96	124.42	128.60
59	B3	34	DG	C5-C6-O6	-6.96	124.42	128.60
77	BM	43	DT	O4'-C1'-C2'	-6.96	100.33	105.90
146	Cd	39	DG	C5-C6-O6	-6.96	124.42	128.60
154	Cr	9	DG	C5-C6-O6	-6.96	124.42	128.60
1	AA	2367	DG	O4'-C1'-C2'	-6.96	100.33	105.90
1	AA	5983	DG	C5-C6-O6	-6.96	124.42	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6155	DG	C5-C6-O6	-6.96	124.42	128.60
55	Az	37	DG	C5-C6-O6	-6.96	124.42	128.60
88	BX	21	DG	C5-C6-O6	-6.96	124.42	128.60
89	BY	19	DA	P-O5'-C5'	-6.96	109.76	120.90
1	AA	2360	DG	C5-C6-O6	-6.96	124.42	128.60
1	AA	2577	DG	C5-C6-O6	-6.96	124.42	128.60
1	AA	5034	DG	C5-C6-O6	-6.96	124.42	128.60
1	AA	5784	DA	C5-C6-N6	-6.96	118.13	123.70
1	AA	6835	DG	C5-C6-O6	-6.96	124.42	128.60
85	BU	12	DT	P-O3'-C3'	6.96	128.05	119.70
89	BY	13	DG	C5-C6-O6	-6.96	124.42	128.60
99	Bi	22	DC	O4'-C4'-C3'	-6.96	101.72	104.50
136	CS	47	DG	C5-C6-O6	-6.96	124.42	128.60
144	Cb	34	DA	C4-C5-C6	6.96	120.48	117.00
1	AA	731	DG	C5-C6-O6	-6.96	124.43	128.60
1	AA	748	DG	C5-C6-O6	-6.96	124.43	128.60
47	An	29	DG	C5-C6-O6	-6.96	124.43	128.60
53	Ax	40	DG	C5-C6-O6	-6.96	124.43	128.60
1	AA	3898	DG	C5-C6-O6	-6.96	124.43	128.60
86	BV	42	DG	C5-C6-O6	-6.96	124.43	128.60
1	AA	4640	DG	P-O3'-C3'	6.95	128.04	119.70
1	AA	6319	DG	C5-C6-O6	-6.95	124.43	128.60
19	AJ	17	DA	C1'-O4'-C4'	-6.95	103.15	110.10
37	Ac	63	DG	C5-C6-O6	-6.95	124.43	128.60
1	AA	3895	DG	C5-C6-O6	-6.95	124.43	128.60
1	AA	4612	DG	C5-C6-O6	-6.95	124.43	128.60
1	AA	93	DG	C5-C6-O6	-6.95	124.43	128.60
1	AA	438	DG	C5-C6-O6	-6.95	124.43	128.60
1	AA	2658	DG	C5-C6-O6	-6.95	124.43	128.60
54	Ay	30	DA	P-O3'-C3'	6.95	128.04	119.70
71	BG	25	DG	C5-C6-O6	-6.95	124.43	128.60
84	BT	52	DG	C5-C6-O6	-6.95	124.43	128.60
105	Bo	63	DT	O4'-C4'-C3'	-6.95	101.72	104.50
135	CR	37	DG	C5-C6-O6	-6.95	124.43	128.60
1	AA	756	DG	C5-C6-O6	-6.95	124.43	128.60
1	AA	7233	DG	C5-C6-O6	-6.95	124.43	128.60
48	Ao	22	DC	N3-C4-N4	6.95	122.86	118.00
61	B5	18	DG	C5-C6-O6	-6.95	124.43	128.60
63	B7	21	DG	C5-C6-O6	-6.95	124.43	128.60
107	Bq	46	DG	C5-C6-O6	-6.95	124.43	128.60
123	CF	13	DG	C5-C6-O6	-6.95	124.43	128.60
88	BX	27	DG	C5-C6-O6	-6.95	124.43	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
112	C2	51	DA	C5-C6-N6	-6.95	118.14	123.70
125	CH	19	DG	C5-C6-O6	-6.95	124.43	128.60
131	CN	33	DG	C5-C6-O6	-6.95	124.43	128.60
162	Cz	41	DG	C5-C6-O6	-6.95	124.43	128.60
1	AA	3709	DG	C5-C6-O6	-6.95	124.43	128.60
161	Cy	62	DG	C5-C6-O6	-6.95	124.43	128.60
1	AA	691	DG	C5-C6-O6	-6.94	124.43	128.60
1	AA	1063	DT	O4'-C1'-N1	6.94	112.86	108.00
1	AA	1568	DA	C5-C6-N6	-6.94	118.15	123.70
1	AA	2263	DG	C5-C6-O6	-6.94	124.43	128.60
1	AA	5111	DG	C5-C6-O6	-6.94	124.43	128.60
1	AA	5361	DG	C5-C6-O6	-6.94	124.43	128.60
6	A4	30	DG	C5-C6-O6	-6.94	124.43	128.60
37	Ac	18	DG	C5-C6-O6	-6.94	124.43	128.60
75	BK	29	DG	C5-C6-O6	-6.94	124.43	128.60
93	Bc	5	DG	C5-C6-O6	-6.94	124.43	128.60
125	CH	43	DG	C5-C6-O6	-6.94	124.43	128.60
1	AA	1914	DC	N3-C4-N4	6.94	122.86	118.00
1	AA	1981	DG	C5-C6-O6	-6.94	124.44	128.60
1	AA	3357	DG	C5-C6-O6	-6.94	124.44	128.60
1	AA	4153	DC	O4'-C1'-C2'	-6.94	100.35	105.90
101	Bk	33	DG	C5-C6-O6	-6.94	124.44	128.60
105	Bo	43	DG	C5-C6-O6	-6.94	124.44	128.60
106	Bp	47	DG	C5-C6-O6	-6.94	124.44	128.60
142	CY	37	DG	C5-C6-O6	-6.94	124.44	128.60
1	AA	4853	DG	C5-C6-O6	-6.94	124.44	128.60
1	AA	5359	DG	C5-C6-O6	-6.94	124.44	128.60
28	AS	14	DG	C5-C6-O6	-6.94	124.44	128.60
110	C0	8	DG	C5-C6-O6	-6.94	124.44	128.60
150	Ch	24	DG	C5-C6-O6	-6.94	124.44	128.60
1	AA	1668	DG	C5-C6-O6	-6.94	124.44	128.60
1	AA	1699	DG	C5-C6-O6	-6.94	124.44	128.60
1	AA	4140	DG	C5-C6-O6	-6.94	124.44	128.60
1	AA	4746	DG	C5-C6-O6	-6.94	124.44	128.60
1	AA	5194	DC	P-O3'-C3'	6.94	128.03	119.70
1	AA	6162	DG	C5-C6-O6	-6.94	124.44	128.60
69	BE	62	DG	C5-C6-O6	-6.94	124.44	128.60
78	BN	12	DG	C5-C6-O6	-6.94	124.44	128.60
79	BO	46	DG	C5-C6-O6	-6.94	124.44	128.60
132	CO	46	DG	C5-C6-O6	-6.94	124.44	128.60
1	AA	824	DG	C5-C6-O6	-6.94	124.44	128.60
1	AA	5813	DA	C5-C6-N6	-6.94	118.15	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6106	DG	C5-C6-O6	-6.94	124.44	128.60
126	CI	26	DG	C5-C6-O6	-6.94	124.44	128.60
1	AA	2142	DG	C5-C6-O6	-6.93	124.44	128.60
1	AA	2786	DG	C5-C6-O6	-6.93	124.44	128.60
91	Ba	30	DG	C5-C6-O6	-6.93	124.44	128.60
1	AA	278	DG	C5-C6-O6	-6.93	124.44	128.60
1	AA	943	DG	C5-C6-O6	-6.93	124.44	128.60
1	AA	1903	DG	O4'-C1'-C2'	-6.93	100.35	105.90
1	AA	2268	DG	C5-C6-O6	-6.93	124.44	128.60
1	AA	2710	DG	C5-C6-O6	-6.93	124.44	128.60
1	AA	3846	DT	P-O3'-C3'	6.93	128.02	119.70
1	AA	5114	DG	C5-C6-O6	-6.93	124.44	128.60
1	AA	6178	DG	C5-C6-O6	-6.93	124.44	128.60
1	AA	6809	DG	C5-C6-O6	-6.93	124.44	128.60
131	CN	10	DG	C5-C6-O6	-6.93	124.44	128.60
133	CP	7	DG	C5-C6-O6	-6.93	124.44	128.60
1	AA	517	DG	C5-C6-O6	-6.93	124.44	128.60
1	AA	4716	DG	C5-C6-O6	-6.93	124.44	128.60
1	AA	6592	DG	C5-C6-O6	-6.93	124.44	128.60
22	AM	17	DG	C5-C6-O6	-6.93	124.44	128.60
91	Ba	10	DG	C5-C6-O6	-6.93	124.44	128.60
126	CI	9	DG	C5-C6-O6	-6.93	124.44	128.60
1	AA	163	DT	O4'-C4'-C3'	-6.93	101.73	104.50
1	AA	508	DG	C5-C6-O6	-6.93	124.44	128.60
1	AA	779	DG	C5-C6-O6	-6.93	124.44	128.60
1	AA	3630	DG	C5-C6-O6	-6.93	124.44	128.60
1	AA	3705	DG	C5-C6-O6	-6.93	124.44	128.60
63	B7	1	DG	C5-C6-O6	-6.93	124.44	128.60
87	BW	13	DT	O4'-C4'-C3'	-6.93	101.73	104.50
160	Cx	26	DA	C5-C6-N6	-6.93	118.16	123.70
1	AA	435	DG	C1'-O4'-C4'	-6.93	103.17	110.10
1	AA	742	DG	C5-C6-O6	-6.93	124.44	128.60
1	AA	2001	DG	C5-C6-O6	-6.93	124.44	128.60
92	Bb	7	DG	C5-C6-O6	-6.93	124.44	128.60
116	C6	29	DA	C5-C6-N6	-6.93	118.16	123.70
139	CV	38	DG	C5-C6-O6	-6.93	124.44	128.60
145	Cc	2	DC	O4'-C1'-N1	6.93	112.85	108.00
1	AA	6	DG	C5-C6-O6	-6.93	124.44	128.60
1	AA	2174	DG	C5-C6-O6	-6.93	124.44	128.60
1	AA	7192	DG	C5-C6-O6	-6.93	124.44	128.60
15	AF	12	DG	C5-C6-O6	-6.93	124.44	128.60
103	Bm	11	DG	C5-C6-O6	-6.93	124.44	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
114	C4	27	DG	C5-C6-O6	-6.93	124.44	128.60
1	AA	4957	DG	C5-C6-O6	-6.92	124.44	128.60
1	AA	5311	DA	C5-C6-N6	-6.92	118.16	123.70
33	AX	38	DA	C5-C6-N6	-6.92	118.16	123.70
90	BZ	30	DG	C5-C6-O6	-6.92	124.44	128.60
105	Bo	11	DG	C5-C6-O6	-6.92	124.45	128.60
1	AA	1717	DG	C5-C6-O6	-6.92	124.45	128.60
1	AA	6323	DA	O4'-C4'-C3'	-6.92	101.73	104.50
1	AA	7155	DG	C5-C6-O6	-6.92	124.45	128.60
86	BV	29	DG	C5-C6-O6	-6.92	124.45	128.60
1	AA	586	DG	C5-C6-O6	-6.92	124.45	128.60
1	AA	2773	DG	C5-C6-O6	-6.92	124.45	128.60
1	AA	6663	DG	P-O3'-C3'	6.92	128.00	119.70
1	AA	6814	DG	C5-C6-O6	-6.92	124.45	128.60
1	AA	7123	DG	C5-C6-O6	-6.92	124.45	128.60
10	A8	9	DA	C5-C6-N6	-6.92	118.16	123.70
26	AQ	49	DG	O4'-C1'-N9	6.92	112.84	108.00
37	Ac	30	DC	O4'-C4'-C3'	-6.92	101.73	104.50
57	B1	27	DG	C5-C6-O6	-6.92	124.45	128.60
93	Bc	24	DT	P-O3'-C3'	6.92	128.00	119.70
115	C5	25	DG	C5-C6-O6	-6.92	124.45	128.60
117	C7	29	DG	C5-C6-O6	-6.92	124.45	128.60
1	AA	3219	DA	C5-C6-N6	-6.92	118.16	123.70
1	AA	3866	DG	C5-C6-O6	-6.92	124.45	128.60
53	Ax	32	DG	C5-C6-O6	-6.92	124.45	128.60
1	AA	299	DG	C5-C6-O6	-6.92	124.45	128.60
1	AA	2528	DG	P-O3'-C3'	6.92	128.00	119.70
1	AA	5082	DG	C5-C6-O6	-6.92	124.45	128.60
12	AC	23	DG	C5-C6-O6	-6.92	124.45	128.60
52	Aw	14	DA	O4'-C1'-N9	6.92	112.84	108.00
60	B4	6	DA	O4'-C1'-N9	6.92	112.84	108.00
71	BG	32	DG	C5-C6-O6	-6.92	124.45	128.60
72	BH	20	DG	C5-C6-O6	-6.92	124.45	128.60
74	BJ	17	DG	C5-C6-O6	-6.92	124.45	128.60
139	CV	44	DT	P-O3'-C3'	6.92	128.00	119.70
1	AA	1438	DG	C5-C6-O6	-6.92	124.45	128.60
1	AA	3805	DG	C5-C6-O6	-6.92	124.45	128.60
1	AA	3972	DG	C5-C6-O6	-6.92	124.45	128.60
1	AA	4972	DA	C5-C6-N6	-6.92	118.17	123.70
1	AA	5467	DG	C5-C6-O6	-6.92	124.45	128.60
1	AA	6336	DG	C5-C6-O6	-6.92	124.45	128.60
1	AA	6868	DG	C5-C6-O6	-6.92	124.45	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
96	Bf	4	DG	C5-C6-O6	-6.92	124.45	128.60
115	C5	44	DA	P-O3'-C3'	6.92	128.00	119.70
1	AA	971	DG	C5-C6-O6	-6.92	124.45	128.60
5	A3	31	DG	C5-C6-O6	-6.92	124.45	128.60
68	BD	1	DG	C5-C6-O6	-6.92	124.45	128.60
74	BJ	50	DG	C5-C6-O6	-6.92	124.45	128.60
133	CP	33	DG	C5-C6-O6	-6.92	124.45	128.60
1	AA	2134	DG	C5-C6-O6	-6.91	124.45	128.60
1	AA	7118	DG	C5-C6-O6	-6.91	124.45	128.60
7	A5	5	DA	P-O3'-C3'	6.91	128.00	119.70
26	AQ	12	DG	C5-C6-O6	-6.91	124.45	128.60
29	AT	3	DG	C5-C6-O6	-6.91	124.45	128.60
39	Af	42	DG	C5-C6-O6	-6.91	124.45	128.60
48	Ao	14	DA	O4'-C1'-N9	6.91	112.84	108.00
95	Be	1	DG	O4'-C1'-N9	6.91	112.84	108.00
108	Br	9	DG	C5-C6-O6	-6.91	124.45	128.60
116	C6	28	DA	C5-C6-N6	-6.91	118.17	123.70
1	AA	3056	DG	C5-C6-O6	-6.91	124.45	128.60
69	BE	7	DG	C5-C6-O6	-6.91	124.45	128.60
1	AA	220	DG	C5-C6-O6	-6.91	124.45	128.60
1	AA	384	DG	C5-C6-O6	-6.91	124.45	128.60
1	AA	4011	DG	O4'-C1'-N9	6.91	112.84	108.00
1	AA	6790	DG	C5-C6-O6	-6.91	124.45	128.60
20	AK	35	DA	C5-C6-N6	-6.91	118.17	123.70
21	AL	30	DG	C5-C6-O6	-6.91	124.45	128.60
38	Ad	38	DG	C5-C6-O6	-6.91	124.45	128.60
90	BZ	31	DG	C5-C6-O6	-6.91	124.45	128.60
1	AA	360	DG	C5-C6-O6	-6.91	124.45	128.60
1	AA	4068	DG	C5-C6-O6	-6.91	124.45	128.60
1	AA	4143	DG	C5-C6-O6	-6.91	124.45	128.60
85	BU	14	DG	P-O3'-C3'	6.91	127.99	119.70
1	AA	3879	DG	C5-C6-O6	-6.91	124.46	128.60
45	Al	34	DC	O4'-C4'-C3'	-6.91	101.74	104.50
64	B8	7	DC	N3-C4-N4	6.91	122.83	118.00
143	CZ	48	DT	O4'-C4'-C3'	-6.91	101.74	104.50
1	AA	35	DC	O4'-C4'-C3'	-6.91	101.74	104.50
1	AA	898	DG	C5-C6-O6	-6.91	124.46	128.60
1	AA	1354	DG	P-O3'-C3'	6.91	127.99	119.70
1	AA	1619	DG	C5-C6-O6	-6.91	124.46	128.60
1	AA	1775	DA	C1'-O4'-C4'	-6.91	103.19	110.10
1	AA	1832	DG	C5-C6-O6	-6.91	124.46	128.60
1	AA	5139	DG	C5-C6-O6	-6.91	124.46	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
50	Au	41	DG	C5-C6-O6	-6.91	124.46	128.60
109	Bs	2	DG	C5-C6-O6	-6.91	124.46	128.60
118	C8	26	DG	C5-C6-O6	-6.91	124.46	128.60
135	CR	27	DA	P-O3'-C3'	6.91	127.99	119.70
1	AA	2126	DG	C5-C6-O6	-6.90	124.46	128.60
1	AA	4305	DG	C5-C6-O6	-6.90	124.46	128.60
1	AA	5905	DG	C5-C6-O6	-6.90	124.46	128.60
1	AA	6712	DG	C5-C6-O6	-6.90	124.46	128.60
15	AF	20	DG	C5-C6-O6	-6.90	124.46	128.60
118	C8	16	DG	C5-C6-O6	-6.90	124.46	128.60
152	Cp	30	DC	O4'-C1'-C2'	-6.90	100.38	105.90
157	Cu	27	DG	C5-C6-O6	-6.90	124.46	128.60
1	AA	645	DG	C5-C6-O6	-6.90	124.46	128.60
1	AA	1481	DA	C5-C6-N6	-6.90	118.18	123.70
1	AA	1510	DG	C5-C6-O6	-6.90	124.46	128.60
1	AA	3296	DA	C5-C6-N6	-6.90	118.18	123.70
1	AA	3867	DG	C5-C6-O6	-6.90	124.46	128.60
4	A2	16	DG	C5-C6-O6	-6.90	124.46	128.60
41	Ah	14	DG	C5-C6-O6	-6.90	124.46	128.60
69	BE	42	DG	C5-C6-O6	-6.90	124.46	128.60
153	Cq	11	DG	C5-C6-O6	-6.90	124.46	128.60
1	AA	2965	DG	C5-C6-O6	-6.90	124.46	128.60
1	AA	4798	DG	C5-C6-O6	-6.90	124.46	128.60
1	AA	4945	DA	C5-C6-N6	-6.90	118.18	123.70
35	AZ	51	DG	C5-C6-O6	-6.90	124.46	128.60
48	Ao	9	DA	C5-C6-N6	-6.90	118.18	123.70
97	Bg	21	DG	C5-C6-O6	-6.90	124.46	128.60
136	CS	48	DG	C5-C6-O6	-6.90	124.46	128.60
160	Cx	30	DG	C5-C6-O6	-6.90	124.46	128.60
1	AA	587	DG	C5-C6-O6	-6.90	124.46	128.60
1	AA	2424	DG	C5-C6-O6	-6.90	124.46	128.60
1	AA	6159	DA	O4'-C4'-C3'	-6.90	101.74	104.50
35	AZ	20	DT	O4'-C1'-C2'	-6.90	100.38	105.90
37	Ac	54	DG	C5-C6-O6	-6.90	124.46	128.60
158	Cv	23	DG	C5-C6-O6	-6.90	124.46	128.60
1	AA	576	DG	C5-C6-O6	-6.90	124.46	128.60
1	AA	585	DG	C5-C6-O6	-6.90	124.46	128.60
1	AA	1244	DC	P-O3'-C3'	6.90	127.98	119.70
1	AA	6487	DG	C5-C6-O6	-6.90	124.46	128.60
1	AA	7119	DC	O4'-C4'-C3'	-6.90	101.74	104.50
7	A5	2	DA	C5-C6-N6	-6.90	118.18	123.70
83	BS	16	DA	C5-C6-N6	-6.90	118.18	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
100	Bj	29	DG	C5-C6-O6	-6.90	124.46	128.60
124	CG	27	DG	C5-C6-O6	-6.90	124.46	128.60
144	Cb	38	DA	C5-C6-N6	-6.90	118.18	123.70
1	AA	117	DG	C5-C6-O6	-6.90	124.46	128.60
1	AA	2052	DG	C5-C6-O6	-6.90	124.46	128.60
37	Ac	32	DA	O4'-C1'-N9	6.90	112.83	108.00
96	Bf	35	DG	O4'-C1'-N9	6.90	112.83	108.00
149	Cg	37	DG	C5-C6-O6	-6.90	124.46	128.60
162	Cz	18	DG	C5-C6-O6	-6.90	124.46	128.60
56	B0	40	DG	C5-C6-O6	-6.89	124.46	128.60
68	BD	25	DG	C5-C6-O6	-6.89	124.46	128.60
71	BG	8	DG	C5-C6-O6	-6.89	124.46	128.60
98	Bh	14	DG	C5-C6-O6	-6.89	124.46	128.60
1	AA	537	DG	C5-C6-O6	-6.89	124.47	128.60
1	AA	1259	DA	O4'-C1'-C2'	-6.89	100.39	105.90
1	AA	3270	DG	C5-C6-O6	-6.89	124.47	128.60
1	AA	3856	DG	C5-C6-O6	-6.89	124.47	128.60
1	AA	3981	DG	C5-C6-O6	-6.89	124.46	128.60
56	B0	48	DG	C5-C6-O6	-6.89	124.46	128.60
88	BX	36	DG	C5-C6-O6	-6.89	124.46	128.60
104	Bn	42	DG	C5-C6-O6	-6.89	124.47	128.60
13	AD	5	DG	C5-C6-O6	-6.89	124.47	128.60
53	Ax	38	DG	C5-C6-O6	-6.89	124.47	128.60
157	Cu	46	DG	C5-C6-O6	-6.89	124.47	128.60
1	AA	1315	DC	O4'-C1'-C2'	-6.89	100.39	105.90
1	AA	2761	DG	C5-C6-O6	-6.89	124.47	128.60
1	AA	3964	DA	P-O3'-C3'	6.89	127.97	119.70
97	Bg	37	DG	C5-C6-O6	-6.89	124.47	128.60
115	C5	22	DG	C5-C6-O6	-6.89	124.47	128.60
1	AA	490	DG	C5-C6-O6	-6.89	124.47	128.60
1	AA	1120	DG	C5-C6-O6	-6.89	124.47	128.60
1	AA	3885	DG	C5-C6-O6	-6.89	124.47	128.60
1	AA	4725	DG	C5-C6-O6	-6.89	124.47	128.60
1	AA	6195	DG	C5-C6-O6	-6.89	124.47	128.60
1	AA	7043	DG	C5-C6-O6	-6.89	124.47	128.60
16	AG	8	DG	C5-C6-O6	-6.89	124.47	128.60
51	Av	1	DG	C5-C6-O6	-6.89	124.47	128.60
56	B0	10	DG	C5-C6-O6	-6.89	124.47	128.60
76	BL	45	DG	C5-C6-O6	-6.89	124.47	128.60
81	BQ	41	DG	C5-C6-O6	-6.89	124.47	128.60
94	Bd	20	DG	C5-C6-O6	-6.89	124.47	128.60
152	Cp	9	DG	C5-C6-O6	-6.89	124.47	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2526	DG	C5-C6-O6	-6.88	124.47	128.60
1	AA	3027	DA	C5-C6-N6	-6.88	118.19	123.70
1	AA	5066	DG	C5-C6-O6	-6.88	124.47	128.60
1	AA	5070	DA	C5-C6-N6	-6.88	118.19	123.70
1	AA	6259	DG	C5-C6-O6	-6.88	124.47	128.60
1	AA	7031	DG	C5-C6-O6	-6.88	124.47	128.60
86	BV	31	DG	C5-C6-O6	-6.88	124.47	128.60
91	Ba	7	DA	C5-C6-N6	-6.88	118.19	123.70
128	CK	7	DA	C5-C6-N6	-6.88	118.19	123.70
1	AA	4011	DG	C5-C6-O6	-6.88	124.47	128.60
1	AA	6277	DG	C5-C6-O6	-6.88	124.47	128.60
1	AA	22	DT	P-O3'-C3'	6.88	127.96	119.70
1	AA	968	DG	C5-C6-O6	-6.88	124.47	128.60
1	AA	1588	DG	C5-C6-O6	-6.88	124.47	128.60
1	AA	2009	DC	O4'-C1'-C2'	-6.88	100.39	105.90
1	AA	2375	DT	O4'-C1'-C2'	-6.88	100.39	105.90
1	AA	2508	DG	C5-C6-O6	-6.88	124.47	128.60
1	AA	3527	DG	C5-C6-O6	-6.88	124.47	128.60
1	AA	6554	DG	C5-C6-O6	-6.88	124.47	128.60
1	AA	7034	DG	C5-C6-O6	-6.88	124.47	128.60
65	B9	17	DG	C5-C6-O6	-6.88	124.47	128.60
66	BB	15	DG	C5-C6-O6	-6.88	124.47	128.60
80	BP	45	DG	C5-C6-O6	-6.88	124.47	128.60
101	Bk	6	DA	O4'-C1'-C2'	-6.88	100.39	105.90
106	Bp	14	DG	C5-C6-O6	-6.88	124.47	128.60
133	CP	31	DG	C5-C6-O6	-6.88	124.47	128.60
1	AA	2520	DG	C5-C6-O6	-6.88	124.47	128.60
1	AA	4535	DG	C5-C6-O6	-6.88	124.47	128.60
1	AA	5595	DC	O4'-C1'-N1	6.88	112.82	108.00
1	AA	7200	DA	P-O3'-C3'	6.88	127.96	119.70
28	AS	13	DG	C5-C6-O6	-6.88	124.47	128.60
1	AA	5704	DG	C5-C6-O6	-6.88	124.47	128.60
4	A2	37	DA	C5-C6-N6	-6.88	118.20	123.70
72	BH	31	DG	C5-C6-O6	-6.88	124.47	128.60
111	C1	30	DA	P-O3'-C3'	6.88	127.95	119.70
125	CH	32	DG	C5-C6-O6	-6.88	124.47	128.60
141	CX	46	DG	C5-C6-O6	-6.88	124.47	128.60
1	AA	7125	DT	O4'-C1'-N1	6.88	112.81	108.00
1	AA	878	DG	C5-C6-O6	-6.88	124.47	128.60
1	AA	1069	DA	O4'-C4'-C3'	-6.88	101.75	104.50
1	AA	1767	DG	C5-C6-O6	-6.88	124.47	128.60
39	Af	30	DA	C4-C5-C6	6.88	120.44	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
141	CX	5	DG	C5-C6-O6	-6.88	124.47	128.60
1	AA	1411	DC	O4'-C1'-C2'	-6.87	100.40	105.90
1	AA	2101	DG	C5-C6-O6	-6.87	124.48	128.60
1	AA	3604	DG	C5-C6-O6	-6.87	124.48	128.60
1	AA	4231	DG	C5-C6-O6	-6.87	124.48	128.60
1	AA	7145	DG	C5-C6-O6	-6.87	124.48	128.60
62	B6	43	DG	C5-C6-O6	-6.87	124.48	128.60
137	CT	47	DG	C5-C6-O6	-6.87	124.48	128.60
1	AA	2215	DG	C5-C6-O6	-6.87	124.48	128.60
1	AA	2760	DG	C5-C6-O6	-6.87	124.48	128.60
1	AA	3540	DA	C4-C5-C6	6.87	120.44	117.00
1	AA	6965	DA	C5-C6-N6	-6.87	118.20	123.70
14	AE	34	DG	C5-C6-O6	-6.87	124.48	128.60
16	AG	23	DG	C5-C6-O6	-6.87	124.48	128.60
26	AQ	9	DG	C5-C6-O6	-6.87	124.48	128.60
27	AR	35	DG	C5-C6-O6	-6.87	124.48	128.60
53	Ax	2	DG	C5-C6-O6	-6.87	124.48	128.60
56	B0	23	DG	C5-C6-O6	-6.87	124.48	128.60
152	Cp	47	DA	C5-C6-N6	-6.87	118.20	123.70
1	AA	10	DG	C5-C6-O6	-6.87	124.48	128.60
1	AA	1129	DG	C5-C6-O6	-6.87	124.48	128.60
1	AA	6162	DG	P-O5'-C5'	-6.87	109.91	120.90
33	AX	22	DC	O4'-C4'-C3'	-6.87	101.75	104.50
71	BG	40	DG	C5-C6-O6	-6.87	124.48	128.60
1	AA	4589	DC	O4'-C1'-C2'	-6.87	100.41	105.90
1	AA	5917	DG	C5-C6-O6	-6.87	124.48	128.60
1	AA	6968	DG	P-O3'-C3'	6.87	127.94	119.70
27	AR	46	DA	C5-C6-N6	-6.87	118.20	123.70
85	BU	47	DG	C5-C6-O6	-6.87	124.48	128.60
96	Bf	13	DG	C5-C6-O6	-6.87	124.48	128.60
104	Bn	13	DG	C5-C6-O6	-6.87	124.48	128.60
127	CJ	28	DC	P-O3'-C3'	6.87	127.94	119.70
1	AA	553	DG	C5-C6-O6	-6.87	124.48	128.60
1	AA	1106	DG	C5-C6-O6	-6.87	124.48	128.60
1	AA	5611	DG	C5-C6-O6	-6.87	124.48	128.60
1	AA	333	DG	C5-C6-O6	-6.87	124.48	128.60
1	AA	4282	DG	C5-C6-O6	-6.87	124.48	128.60
1	AA	4610	DG	C5-C6-O6	-6.87	124.48	128.60
1	AA	4872	DG	C5-C6-O6	-6.87	124.48	128.60
1	AA	7039	DG	C5-C6-O6	-6.87	124.48	128.60
1	AA	7214	DG	C5-C6-O6	-6.87	124.48	128.60
21	AL	45	DG	C5-C6-O6	-6.87	124.48	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
115	C5	57	DG	C5-C6-O6	-6.87	124.48	128.60
139	CV	25	DA	P-O3'-C3'	6.87	127.94	119.70
141	CX	8	DG	C5-C6-O6	-6.87	124.48	128.60
1	AA	3975	DG	C5-C6-O6	-6.86	124.48	128.60
1	AA	4617	DC	O4'-C1'-N1	6.86	112.81	108.00
1	AA	6157	DG	C5-C6-O6	-6.86	124.48	128.60
81	BQ	38	DC	C4'-C3'-C2'	-6.86	96.92	103.10
1	AA	2209	DG	C5-C6-O6	-6.86	124.48	128.60
115	C5	24	DT	O4'-C1'-N1	6.86	112.80	108.00
127	CJ	52	DG	C5-C6-O6	-6.86	124.48	128.60
1	AA	63	DC	C1'-O4'-C4'	-6.86	103.24	110.10
1	AA	246	DG	C5-C6-O6	-6.86	124.48	128.60
1	AA	1602	DG	C5-C6-O6	-6.86	124.48	128.60
1	AA	4849	DG	C5-C6-O6	-6.86	124.48	128.60
31	AV	45	DG	C5-C6-O6	-6.86	124.48	128.60
35	AZ	21	DG	C5-C6-O6	-6.86	124.48	128.60
88	BX	3	DG	C5-C6-O6	-6.86	124.48	128.60
95	Be	17	DG	C5-C6-O6	-6.86	124.48	128.60
119	CB	1	DG	C5-C6-O6	-6.86	124.48	128.60
140	CW	1	DG	C5-C6-O6	-6.86	124.48	128.60
160	Cx	1	DA	C4-C5-C6	6.86	120.43	117.00
1	AA	740	DG	C5-C6-O6	-6.86	124.49	128.60
1	AA	2904	DC	N3-C4-N4	6.86	122.80	118.00
1	AA	3959	DG	C5-C6-O6	-6.86	124.49	128.60
1	AA	4412	DG	P-O3'-C3'	6.86	127.93	119.70
1	AA	5061	DG	C5-C6-O6	-6.86	124.49	128.60
8	A6	48	DG	C5-C6-O6	-6.86	124.48	128.60
12	AC	41	DG	O4'-C1'-C2'	-6.86	100.41	105.90
13	AD	17	DG	C5-C6-O6	-6.86	124.49	128.60
107	Bq	43	DG	C5-C6-O6	-6.86	124.48	128.60
138	CU	7	DC	O4'-C1'-N1	6.86	112.80	108.00
1	AA	945	DA	O4'-C1'-C2'	-6.86	100.42	105.90
1	AA	974	DG	C5-C6-O6	-6.86	124.49	128.60
1	AA	7016	DG	C5-C6-O6	-6.86	124.49	128.60
1	AA	7037	DG	P-O3'-C3'	6.86	127.93	119.70
26	AQ	11	DG	C5-C6-O6	-6.86	124.49	128.60
69	BE	53	DG	C5-C6-O6	-6.86	124.49	128.60
106	Bp	30	DG	O4'-C4'-C3'	-6.86	101.76	104.50
127	CJ	38	DG	C5-C6-O6	-6.86	124.49	128.60
154	Cr	39	DG	P-O3'-C3'	6.86	127.93	119.70
1	AA	4667	DG	C5-C6-O6	-6.85	124.49	128.60
149	Cg	45	DG	C5-C6-O6	-6.85	124.49	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	549	DG	C5-C6-O6	-6.85	124.49	128.60
1	AA	826	DT	O4'-C1'-C2'	-6.85	100.42	105.90
1	AA	4582	DG	C5-C6-O6	-6.85	124.49	128.60
1	AA	4988	DG	C5-C6-O6	-6.85	124.49	128.60
1	AA	5725	DG	C5-C6-O6	-6.85	124.49	128.60
1	AA	7159	DG	C5-C6-O6	-6.85	124.49	128.60
10	A8	27	DG	C5-C6-O6	-6.85	124.49	128.60
13	AD	10	DG	C5-C6-O6	-6.85	124.49	128.60
77	BM	38	DG	C5-C6-O6	-6.85	124.49	128.60
100	Bj	27	DG	C5-C6-O6	-6.85	124.49	128.60
106	Bp	37	DG	C5-C6-O6	-6.85	124.49	128.60
107	Bq	6	DG	O4'-C1'-N9	6.85	112.80	108.00
114	C4	14	DG	C5-C6-O6	-6.85	124.49	128.60
120	CC	21	DG	C5-C6-O6	-6.85	124.49	128.60
121	CD	4	DG	C5-C6-O6	-6.85	124.49	128.60
160	Cx	29	DG	C5-C6-O6	-6.85	124.49	128.60
1	AA	6066	DG	C5-C6-O6	-6.85	124.49	128.60
1	AA	6757	DG	C5-C6-O6	-6.85	124.49	128.60
16	AG	18	DG	C5-C6-O6	-6.85	124.49	128.60
93	Bc	7	DG	C5-C6-O6	-6.85	124.49	128.60
143	CZ	34	DG	C5-C6-O6	-6.85	124.49	128.60
1	AA	297	DG	C5-C6-O6	-6.85	124.49	128.60
1	AA	997	DC	P-O3'-C3'	6.85	127.92	119.70
1	AA	1659	DT	C1'-O4'-C4'	-6.85	103.25	110.10
1	AA	4754	DG	C5-C6-O6	-6.85	124.49	128.60
1	AA	7236	DG	C5-C6-O6	-6.85	124.49	128.60
95	Be	32	DG	C5-C6-O6	-6.85	124.49	128.60
107	Bq	53	DG	C5-C6-O6	-6.85	124.49	128.60
1	AA	132	DG	C5-C6-O6	-6.85	124.49	128.60
1	AA	2707	DG	C5-C6-O6	-6.85	124.49	128.60
1	AA	3858	DG	C5-C6-O6	-6.85	124.49	128.60
110	C0	34	DG	C5-C6-O6	-6.85	124.49	128.60
127	CJ	46	DG	C5-C6-O6	-6.85	124.49	128.60
133	CP	48	DC	P-O3'-C3'	6.85	127.92	119.70
161	Cy	31	DG	C5-C6-O6	-6.85	124.49	128.60
1	AA	212	DG	C5-C6-O6	-6.85	124.49	128.60
1	AA	2347	DG	C5-C6-O6	-6.85	124.49	128.60
1	AA	3950	DG	C5-C6-O6	-6.85	124.49	128.60
76	BL	12	DG	C5-C6-O6	-6.85	124.49	128.60
162	Cz	20	DG	C5-C6-O6	-6.85	124.49	128.60
1	AA	3083	DG	C5-C6-O6	-6.84	124.49	128.60
1	AA	3906	DG	C5-C6-O6	-6.84	124.49	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3969	DG	C5-C6-O6	-6.84	124.49	128.60
1	AA	4926	DG	C5-C6-O6	-6.84	124.49	128.60
1	AA	5656	DG	C5-C6-O6	-6.84	124.49	128.60
1	AA	7236	DG	P-O3'-C3'	6.84	127.91	119.70
9	A7	43	DA	O4'-C1'-N9	6.84	112.79	108.00
12	AC	25	DG	C5-C6-O6	-6.84	124.49	128.60
18	AI	24	DA	O4'-C1'-C2'	-6.84	100.42	105.90
21	AL	41	DG	C5-C6-O6	-6.84	124.49	128.60
35	AZ	36	DG	C5-C6-O6	-6.84	124.49	128.60
63	B7	11	DG	C5-C6-O6	-6.84	124.49	128.60
99	Bi	42	DG	C5-C6-O6	-6.84	124.49	128.60
101	Bk	34	DG	C5-C6-O6	-6.84	124.49	128.60
117	C7	2	DA	C5-C6-N6	-6.84	118.22	123.70
124	CG	30	DG	C5-C6-O6	-6.84	124.49	128.60
146	Cd	31	DA	C5-C6-N6	-6.84	118.22	123.70
147	Ce	7	DG	C5-C6-O6	-6.84	124.49	128.60
1	AA	2470	DG	C5-C6-O6	-6.84	124.49	128.60
159	Cw	15	DG	C5-C6-O6	-6.84	124.49	128.60
1	AA	2511	DG	C5-C6-O6	-6.84	124.50	128.60
1	AA	3513	DC	O4'-C1'-C2'	-6.84	100.43	105.90
1	AA	3594	DG	C5-C6-O6	-6.84	124.50	128.60
1	AA	4020	DG	C5-C6-O6	-6.84	124.50	128.60
1	AA	5277	DG	C5-C6-O6	-6.84	124.50	128.60
1	AA	5980	DA	C5-C6-N6	-6.84	118.23	123.70
83	BS	22	DG	C5-C6-O6	-6.84	124.50	128.60
115	C5	11	DG	C5-C6-O6	-6.84	124.50	128.60
1	AA	175	DG	C5-C6-O6	-6.84	124.50	128.60
1	AA	1863	DG	C5-C6-O6	-6.84	124.50	128.60
1	AA	3932	DG	C5-C6-O6	-6.84	124.50	128.60
1	AA	4892	DG	C5-C6-O6	-6.84	124.50	128.60
30	AU	39	DA	C5-C6-N6	-6.84	118.23	123.70
91	Ba	47	DG	C5-C6-O6	-6.84	124.50	128.60
1	AA	6118	DG	C5-C6-O6	-6.84	124.50	128.60
136	CS	17	DG	C5-C6-O6	-6.84	124.50	128.60
1	AA	910	DG	C5-C6-O6	-6.84	124.50	128.60
1	AA	1723	DC	O4'-C1'-C2'	-6.84	100.43	105.90
1	AA	1970	DT	O3'-P-O5'	6.84	116.99	104.00
1	AA	6505	DG	C5-C6-O6	-6.84	124.50	128.60
1	AA	6991	DG	C5-C6-O6	-6.84	124.50	128.60
10	A8	45	DG	C5-C6-O6	-6.84	124.50	128.60
15	AF	5	DA	C5-C6-N6	-6.84	118.23	123.70
28	AS	64	DG	C5-C6-O6	-6.84	124.50	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
148	Cf	1	DG	C5-C6-O6	-6.84	124.50	128.60
1	AA	1444	DG	C5-C6-O6	-6.83	124.50	128.60
1	AA	3396	DG	C5-C6-O6	-6.83	124.50	128.60
1	AA	4358	DG	C5-C6-O6	-6.83	124.50	128.60
35	AZ	11	DG	C5-C6-O6	-6.83	124.50	128.60
135	CR	13	DG	C5-C6-O6	-6.83	124.50	128.60
1	AA	1351	DG	C5-C6-O6	-6.83	124.50	128.60
1	AA	3681	DG	C5-C6-O6	-6.83	124.50	128.60
1	AA	3935	DG	C5-C6-O6	-6.83	124.50	128.60
1	AA	6235	DG	C5-C6-O6	-6.83	124.50	128.60
23	AN	32	DG	C5-C6-O6	-6.83	124.50	128.60
37	Ac	39	DA	P-O3'-C3'	6.83	127.90	119.70
108	Br	34	DG	C5-C6-O6	-6.83	124.50	128.60
154	Cr	8	DG	C5-C6-O6	-6.83	124.50	128.60
1	AA	5149	DG	C5-C6-O6	-6.83	124.50	128.60
1	AA	6095	DG	C5-C6-O6	-6.83	124.50	128.60
10	A8	48	DG	C5-C6-O6	-6.83	124.50	128.60
14	AE	38	DG	C5-C6-O6	-6.83	124.50	128.60
52	Aw	11	DC	P-O3'-C3'	6.83	127.90	119.70
124	CG	8	DG	C5-C6-O6	-6.83	124.50	128.60
126	CI	39	DG	C5-C6-O6	-6.83	124.50	128.60
149	Cg	14	DG	C5-C6-O6	-6.83	124.50	128.60
59	B3	48	DA	C5-C6-N6	-6.83	118.24	123.70
145	Cc	46	DG	C5-C6-O6	-6.83	124.50	128.60
145	Cc	62	DG	C5-C6-O6	-6.83	124.50	128.60
1	AA	1449	DA	C5-C6-N1	-6.83	114.29	117.70
1	AA	3129	DC	O4'-C1'-C2'	-6.83	100.44	105.90
1	AA	4279	DG	C5-C6-O6	-6.83	124.50	128.60
134	CQ	19	DG	C5-C6-O6	-6.83	124.50	128.60
161	Cy	22	DA	C5-C6-N6	-6.83	118.24	123.70
133	CP	13	DA	P-O3'-C3'	6.83	127.89	119.70
135	CR	8	DG	C5-C6-O6	-6.83	124.50	128.60
1	AA	1488	DG	C5-C6-O6	-6.83	124.50	128.60
1	AA	1945	DG	C5-C6-O6	-6.83	124.50	128.60
1	AA	4972	DA	C4-C5-C6	6.83	120.41	117.00
21	AL	47	DG	C5-C6-O6	-6.83	124.50	128.60
35	AZ	22	DT	P-O3'-C3'	6.83	127.89	119.70
63	B7	14	DG	C5-C6-O6	-6.83	124.50	128.60
128	CK	7	DA	C4-C5-C6	6.83	120.41	117.00
136	CS	31	DG	C5-C6-O6	-6.83	124.50	128.60
139	CV	50	DG	C5-C6-O6	-6.83	124.50	128.60
142	CY	16	DA	O4'-C1'-N9	6.83	112.78	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2272	DG	P-O3'-C3'	6.82	127.89	119.70
1	AA	4758	DG	C5-C6-O6	-6.82	124.51	128.60
1	AA	5776	DG	C5-C6-O6	-6.82	124.50	128.60
1	AA	6163	DG	C5-C6-O6	-6.82	124.51	128.60
10	A8	13	DA	O4'-C1'-N9	6.82	112.78	108.00
74	BJ	46	DG	C5-C6-O6	-6.82	124.51	128.60
159	Cw	1	DG	C5-C6-O6	-6.82	124.51	128.60
1	AA	367	DG	C5-C6-O6	-6.82	124.51	128.60
1	AA	529	DG	C5-C6-O6	-6.82	124.51	128.60
1	AA	5853	DG	C5-C6-O6	-6.82	124.51	128.60
1	AA	7006	DG	C5-C6-O6	-6.82	124.51	128.60
15	AF	45	DG	C5-C6-O6	-6.82	124.51	128.60
87	BW	29	DG	C5-C6-O6	-6.82	124.51	128.60
1	AA	101	DC	C1'-O4'-C4'	-6.82	103.28	110.10
1	AA	184	DG	C5-C6-O6	-6.82	124.51	128.60
1	AA	516	DG	C5-C6-O6	-6.82	124.51	128.60
1	AA	1884	DG	C5-C6-O6	-6.82	124.51	128.60
1	AA	3044	DG	C5-C6-O6	-6.82	124.51	128.60
1	AA	3465	DG	C5-C6-O6	-6.82	124.51	128.60
5	A3	16	DT	P-O3'-C3'	6.82	127.88	119.70
97	Bg	34	DG	C5-C6-O6	-6.82	124.51	128.60
99	Bi	45	DG	C5-C6-O6	-6.82	124.51	128.60
111	C1	1	DG	O4'-C1'-N9	6.82	112.77	108.00
1	AA	581	DG	C5-C6-O6	-6.82	124.51	128.60
1	AA	7170	DG	C5-C6-O6	-6.82	124.51	128.60
23	AN	18	DG	C5-C6-O6	-6.82	124.51	128.60
157	Cu	29	DG	C5-C6-O6	-6.82	124.51	128.60
1	AA	654	DG	C5-C6-O6	-6.82	124.51	128.60
1	AA	1297	DC	N3-C4-N4	6.82	122.77	118.00
1	AA	1355	DG	C5-C6-O6	-6.82	124.51	128.60
1	AA	4203	DG	C5-C6-O6	-6.82	124.51	128.60
1	AA	4210	DG	C5-C6-O6	-6.82	124.51	128.60
44	Ak	38	DG	C5-C6-O6	-6.82	124.51	128.60
45	Al	17	DC	P-O3'-C3'	-6.82	111.52	119.70
75	BK	8	DA	C5-C6-N6	-6.82	118.25	123.70
88	BX	1	DG	C5-C6-O6	-6.82	124.51	128.60
88	BX	48	DG	C5-C6-O6	-6.82	124.51	128.60
1	AA	811	DG	C5-C6-O6	-6.82	124.51	128.60
1	AA	2475	DG	C5-C6-O6	-6.82	124.51	128.60
52	Aw	24	DA	C5-C6-N6	-6.82	118.25	123.70
95	Be	38	DG	C5-C6-O6	-6.82	124.51	128.60
114	C4	48	DT	P-O3'-C3'	6.82	127.88	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	65	DA	P-O3'-C3'	6.81	127.88	119.70
1	AA	1934	DG	C5-C6-O6	-6.81	124.51	128.60
1	AA	2532	DG	C5-C6-O6	-6.81	124.51	128.60
22	AM	40	DG	C5-C6-O6	-6.81	124.51	128.60
26	AQ	7	DG	C5-C6-O6	-6.81	124.51	128.60
50	Au	32	DG	C5-C6-O6	-6.81	124.51	128.60
110	C0	3	DG	C5-C6-O6	-6.81	124.51	128.60
1	AA	509	DG	C5-C6-O6	-6.81	124.51	128.60
1	AA	1084	DG	C4'-C3'-C2'	-6.81	96.97	103.10
1	AA	2429	DG	C5-C6-O6	-6.81	124.51	128.60
1	AA	4221	DT	P-O3'-C3'	6.81	127.88	119.70
1	AA	4852	DG	C5-C6-O6	-6.81	124.51	128.60
1	AA	5213	DA	C5-C6-N6	-6.81	118.25	123.70
1	AA	6009	DG	C5-C6-O6	-6.81	124.51	128.60
1	AA	6600	DG	C5-C6-O6	-6.81	124.51	128.60
16	AG	42	DA	O4'-C1'-N9	6.81	112.77	108.00
53	Ax	30	DG	C5-C6-O6	-6.81	124.51	128.60
74	BJ	47	DG	C5-C6-O6	-6.81	124.51	128.60
81	BQ	14	DG	C5-C6-O6	-6.81	124.51	128.60
88	BX	32	DG	C5-C6-O6	-6.81	124.51	128.60
138	CU	11	DG	C5-C6-O6	-6.81	124.51	128.60
155	Cs	6	DA	C4-C5-C6	6.81	120.41	117.00
155	Cs	36	DG	C5-C6-O6	-6.81	124.51	128.60
40	Ag	29	DG	C5-C6-O6	-6.81	124.51	128.60
1	AA	143	DC	N3-C4-N4	6.81	122.77	118.00
1	AA	6665	DC	O4'-C1'-N1	6.81	112.77	108.00
1	AA	6990	DA	O4'-C4'-C3'	-6.81	101.78	104.50
4	A2	10	DA	O4'-C1'-N9	6.81	112.77	108.00
40	Ag	2	DG	O4'-C1'-N9	6.81	112.77	108.00
94	Bd	17	DG	C5-C6-O6	-6.81	124.52	128.60
1	AA	753	DG	C5-C6-O6	-6.81	124.52	128.60
1	AA	4532	DG	C5-C6-O6	-6.81	124.52	128.60
1	AA	5099	DT	C1'-O4'-C4'	-6.81	103.29	110.10
1	AA	6337	DG	C5-C6-O6	-6.81	124.52	128.60
10	A8	6	DC	N3-C4-N4	6.81	122.77	118.00
47	An	26	DG	C5-C6-O6	-6.81	124.52	128.60
158	Cv	16	DG	C5-C6-O6	-6.81	124.52	128.60
1	AA	2049	DC	O4'-C1'-C2'	-6.81	100.45	105.90
1	AA	5047	DA	C5-C6-N6	-6.81	118.25	123.70
1	AA	6484	DG	C5-C6-O6	-6.81	124.52	128.60
149	Cg	8	DG	C5-C6-O6	-6.81	124.52	128.60
8	A6	30	DG	C5-C6-O6	-6.80	124.52	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
122	CE	22	DG	C5-C6-O6	-6.80	124.52	128.60
1	AA	662	DG	C5-C6-O6	-6.80	124.52	128.60
1	AA	1974	DG	C5-C6-O6	-6.80	124.52	128.60
1	AA	5597	DG	C5-C6-O6	-6.80	124.52	128.60
1	AA	6889	DG	C5-C6-O6	-6.80	124.52	128.60
65	B9	2	DC	O4'-C1'-N1	6.80	112.76	108.00
104	Bn	62	DG	C5-C6-O6	-6.80	124.52	128.60
1	AA	1737	DG	O4'-C1'-C2'	-6.80	100.46	105.90
1	AA	6822	DG	C5-C6-O6	-6.80	124.52	128.60
8	A6	32	DC	N3-C4-N4	6.80	122.76	118.00
43	Aj	16	DA	O4'-C1'-N9	6.80	112.76	108.00
66	BB	43	DG	C5-C6-O6	-6.80	124.52	128.60
147	Ce	12	DA	O4'-C1'-C2'	-6.80	100.46	105.90
1	AA	291	DC	O4'-C4'-C3'	-6.80	101.78	104.50
1	AA	2863	DC	N3-C4-N4	6.80	122.76	118.00
1	AA	3697	DA	C5-C6-N6	-6.80	118.26	123.70
1	AA	4107	DG	C5-C6-O6	-6.80	124.52	128.60
13	AD	1	DG	C5-C6-O6	-6.80	124.52	128.60
51	Av	37	DG	C5-C6-O6	-6.80	124.52	128.60
71	BG	19	DG	P-O3'-C3'	6.80	127.86	119.70
95	Be	15	DA	P-O3'-C3'	6.80	127.86	119.70
101	Bk	63	DG	C5-C6-O6	-6.80	124.52	128.60
147	Ce	31	DG	C5-C6-O6	-6.80	124.52	128.60
1	AA	6080	DA	O4'-C4'-C3'	-6.80	101.78	104.50
16	AG	43	DC	O4'-C1'-N1	6.80	112.76	108.00
62	B6	38	DT	O4'-C1'-N1	6.80	112.76	108.00
75	BK	11	DA	C5-C6-N6	-6.80	118.26	123.70
98	Bh	9	DG	C5-C6-O6	-6.80	124.52	128.60
159	Cw	11	DG	C5-C6-O6	-6.80	124.52	128.60
1	AA	6571	DG	C5-C6-O6	-6.80	124.52	128.60
6	A4	22	DG	C5-C6-O6	-6.80	124.52	128.60
25	AP	3	DG	C5-C6-O6	-6.80	124.52	128.60
55	Az	11	DG	C5-C6-O6	-6.80	124.52	128.60
102	Bl	28	DA	O4'-C1'-C2'	-6.80	100.46	105.90
112	C2	36	DA	C5-C6-N6	-6.80	118.26	123.70
153	Cq	27	DG	C5-C6-O6	-6.80	124.52	128.60
154	Cr	33	DG	C5-C6-O6	-6.80	124.52	128.60
1	AA	3273	DG	C5-C6-O6	-6.79	124.52	128.60
1	AA	5476	DG	C5-C6-O6	-6.79	124.52	128.60
88	BX	19	DG	C5-C6-O6	-6.79	124.52	128.60
113	C3	22	DA	P-O3'-C3'	6.79	127.85	119.70
114	C4	7	DG	C5-C6-O6	-6.79	124.52	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
128	CK	31	DG	C5-C6-O6	-6.79	124.52	128.60
130	CM	11	DG	C5-C6-O6	-6.79	124.52	128.60
1	AA	900	DG	C5-C6-O6	-6.79	124.52	128.60
1	AA	2425	DG	C5-C6-O6	-6.79	124.52	128.60
1	AA	3864	DG	C5-C6-O6	-6.79	124.52	128.60
1	AA	5088	DG	C5-C6-O6	-6.79	124.52	128.60
1	AA	5116	DG	C5-C6-O6	-6.79	124.52	128.60
1	AA	6698	DG	C5-C6-O6	-6.79	124.52	128.60
11	AB	6	DG	C5-C6-O6	-6.79	124.52	128.60
11	AB	10	DG	C5-C6-O6	-6.79	124.52	128.60
44	Ak	37	DG	C5-C6-O6	-6.79	124.52	128.60
1	AA	2095	DG	C5-C6-O6	-6.79	124.53	128.60
1	AA	5965	DG	C5-C6-O6	-6.79	124.53	128.60
75	BK	20	DC	N3-C4-N4	6.79	122.75	118.00
106	Bp	19	DG	C5-C6-O6	-6.79	124.53	128.60
133	CP	11	DA	O4'-C1'-N9	6.79	112.75	108.00
134	CQ	37	DG	C5-C6-O6	-6.79	124.53	128.60
145	Cc	17	DG	C5-C6-O6	-6.79	124.53	128.60
1	AA	518	DG	C5-C6-O6	-6.79	124.53	128.60
1	AA	3618	DG	C5-C6-O6	-6.79	124.53	128.60
37	Ac	36	DA	O4'-C1'-N9	6.79	112.75	108.00
37	Ac	65	DG	C5-C6-O6	-6.79	124.53	128.60
153	Cq	21	DG	C5-C6-O6	-6.79	124.53	128.60
72	BH	28	DG	C5-C6-O6	-6.79	124.53	128.60
136	CS	35	DG	C5-C6-O6	-6.79	124.53	128.60
1	AA	356	DG	C5-C6-O6	-6.79	124.53	128.60
1	AA	2087	DC	O4'-C1'-C2'	-6.79	100.47	105.90
1	AA	3424	DG	C5-C6-O6	-6.79	124.53	128.60
1	AA	3942	DG	C5-C6-O6	-6.79	124.53	128.60
1	AA	4059	DG	C5-C6-O6	-6.79	124.53	128.60
1	AA	4850	DG	C5-C6-O6	-6.79	124.53	128.60
1	AA	6765	DG	C5-C6-O6	-6.79	124.53	128.60
75	BK	6	DC	N3-C4-N4	6.79	122.75	118.00
79	BO	4	DA	C5-C6-N6	-6.79	118.27	123.70
1	AA	4372	DG	C5-C6-O6	-6.78	124.53	128.60
11	AB	35	DG	C5-C6-O6	-6.78	124.53	128.60
29	AT	46	DA	O4'-C1'-N9	6.78	112.75	108.00
1	AA	302	DG	C5-C6-O6	-6.78	124.53	128.60
1	AA	955	DG	C1'-O4'-C4'	-6.78	103.32	110.10
1	AA	3584	DG	C5-C6-O6	-6.78	124.53	128.60
1	AA	5254	DG	C5-C6-O6	-6.78	124.53	128.60
1	AA	566	DG	C5-C6-O6	-6.78	124.53	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3873	DG	C5-C6-O6	-6.78	124.53	128.60
1	AA	5358	DG	C5-C6-O6	-6.78	124.53	128.60
1	AA	5672	DG	C5-C6-O6	-6.78	124.53	128.60
18	AI	20	DG	P-O3'-C3'	6.78	127.84	119.70
75	BK	22	DA	C4-C5-C6	6.78	120.39	117.00
96	Bf	43	DG	O4'-C1'-N9	6.78	112.75	108.00
115	C5	56	DT	P-O3'-C3'	6.78	127.84	119.70
116	C6	10	DA	C5-C6-N6	-6.78	118.28	123.70
150	Ch	26	DC	O4'-C1'-N1	6.78	112.75	108.00
157	Cu	14	DA	C4-C5-C6	6.78	120.39	117.00
157	Cu	22	DG	C5-C6-O6	-6.78	124.53	128.60
1	AA	4004	DC	P-O3'-C3'	6.78	127.83	119.70
3	A1	34	DG	C5-C6-O6	-6.78	124.53	128.60
52	Aw	28	DG	C5-C6-O6	-6.78	124.53	128.60
74	BJ	48	DG	C5-C6-O6	-6.78	124.53	128.60
129	CL	28	DG	C5-C6-O6	-6.78	124.53	128.60
144	Cb	26	DG	C5-C6-O6	-6.78	124.53	128.60
1	AA	3183	DA	P-O3'-C3'	6.78	127.83	119.70
1	AA	3540	DA	C5-C6-N6	-6.78	118.28	123.70
1	AA	6159	DA	C1'-O4'-C4'	-6.78	103.32	110.10
1	AA	6831	DG	C5-C6-O6	-6.78	124.53	128.60
17	AH	27	DG	C5-C6-O6	-6.78	124.53	128.60
72	BH	2	DA	O4'-C1'-N9	6.78	112.74	108.00
85	BU	35	DG	C5-C6-O6	-6.78	124.53	128.60
87	BW	25	DG	C5-C6-O6	-6.78	124.53	128.60
126	CI	17	DT	P-O3'-C3'	6.78	127.83	119.70
2	A0	45	DG	N1-C6-O6	6.77	123.96	119.90
150	Ch	22	DG	P-O3'-C3'	6.77	127.83	119.70
161	Cy	5	DG	C5-C6-O6	-6.77	124.54	128.60
1	AA	2108	DG	C5-C6-O6	-6.77	124.54	128.60
1	AA	4375	DA	C1'-O4'-C4'	-6.77	103.33	110.10
1	AA	4924	DG	C5-C6-O6	-6.77	124.54	128.60
2	A0	17	DG	C5-C6-O6	-6.77	124.54	128.60
60	B4	48	DG	C5-C6-O6	-6.77	124.54	128.60
1	AA	6682	DG	C5-C6-O6	-6.77	124.54	128.60
1	AA	1535	DG	C5-C6-O6	-6.77	124.54	128.60
1	AA	2075	DC	O4'-C1'-C2'	-6.77	100.48	105.90
1	AA	2600	DG	C5-C6-O6	-6.77	124.54	128.60
103	Bm	34	DG	C5-C6-O6	-6.77	124.54	128.60
126	CI	30	DA	C4-C5-C6	6.77	120.39	117.00
1	AA	30	DG	P-O3'-C3'	6.77	127.82	119.70
1	AA	1927	DT	C1'-O4'-C4'	-6.77	103.33	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2618	DG	C5-C6-O6	-6.77	124.54	128.60
1	AA	3246	DG	C5-C6-O6	-6.77	124.54	128.60
1	AA	3823	DG	C5-C6-O6	-6.77	124.54	128.60
1	AA	5676	DG	C5-C6-O6	-6.77	124.54	128.60
13	AD	48	DG	C5-C6-O6	-6.77	124.54	128.60
23	AN	6	DG	C5-C6-O6	-6.77	124.54	128.60
24	AO	38	DG	C5-C6-O6	-6.77	124.54	128.60
78	BN	24	DT	P-O3'-C3'	6.77	127.82	119.70
1	AA	5843	DG	C5-C6-O6	-6.77	124.54	128.60
1	AA	5875	DG	O4'-C4'-C3'	-6.77	101.79	104.50
38	Ad	24	DC	O4'-C1'-N1	6.77	112.74	108.00
1	AA	579	DG	C5-C6-O6	-6.76	124.54	128.60
1	AA	2235	DG	C5-C6-O6	-6.76	124.54	128.60
1	AA	2778	DG	C5-C6-O6	-6.76	124.54	128.60
1	AA	3081	DG	C5-C6-O6	-6.76	124.54	128.60
1	AA	3585	DG	C5-C6-O6	-6.76	124.54	128.60
1	AA	3894	DG	C5-C6-O6	-6.76	124.54	128.60
1	AA	4700	DG	C5-C6-O6	-6.76	124.54	128.60
16	AG	27	DG	P-O3'-C3'	6.76	127.82	119.70
76	BL	25	DG	C5-C6-O6	-6.76	124.54	128.60
140	CW	36	DG	C5-C6-O6	-6.76	124.54	128.60
1	AA	115	DG	C5-C6-O6	-6.76	124.54	128.60
1	AA	3150	DG	C5-C6-O6	-6.76	124.54	128.60
1	AA	3913	DG	C5-C6-O6	-6.76	124.54	128.60
1	AA	5181	DG	C5-C6-O6	-6.76	124.54	128.60
117	C7	32	DG	C5-C6-O6	-6.76	124.54	128.60
1	AA	2423	DG	O4'-C1'-C2'	-6.76	100.49	105.90
1	AA	6098	DG	C5-C6-O6	-6.76	124.54	128.60
1	AA	6581	DG	C5-C6-O6	-6.76	124.54	128.60
58	B2	28	DG	C5-C6-O6	-6.76	124.54	128.60
79	BO	26	DA	O4'-C4'-C3'	-6.76	101.80	104.50
84	BT	15	DG	C5-C6-O6	-6.76	124.54	128.60
105	Bo	57	DG	C5-C6-O6	-6.76	124.54	128.60
1	AA	2483	DG	C5-C6-O6	-6.76	124.55	128.60
1	AA	3522	DG	C5-C6-O6	-6.76	124.55	128.60
12	AC	41	DG	C5-C6-O6	-6.76	124.55	128.60
117	C7	38	DG	C5-C6-O6	-6.76	124.54	128.60
148	Cf	46	DG	C5-C6-O6	-6.76	124.55	128.60
1	AA	3202	DA	O4'-C1'-C2'	-6.76	100.49	105.90
1	AA	6620	DG	C5-C6-O6	-6.76	124.55	128.60
1	AA	7153	DT	O4'-C1'-N1	6.76	112.73	108.00
56	B0	8	DG	C5-C6-O6	-6.76	124.55	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
148	Cf	16	DG	C5-C6-O6	-6.76	124.55	128.60
1	AA	3492	DC	N3-C4-N4	6.76	122.73	118.00
13	AD	45	DG	C5-C6-O6	-6.76	124.55	128.60
16	AG	46	DG	O4'-C1'-N9	6.76	112.73	108.00
23	AN	29	DG	C5-C6-O6	-6.76	124.55	128.60
93	Bc	13	DG	C5-C6-O6	-6.76	124.55	128.60
132	CO	12	DG	C5-C6-O6	-6.76	124.55	128.60
145	Cc	20	DG	C5-C6-O6	-6.76	124.55	128.60
1	AA	760	DG	C5-C6-O6	-6.75	124.55	128.60
1	AA	3441	DG	C5-C6-O6	-6.75	124.55	128.60
1	AA	6181	DG	C5-C6-O6	-6.75	124.55	128.60
29	AT	41	DG	C5-C6-O6	-6.75	124.55	128.60
128	CK	19	DA	C5-C6-N6	-6.75	118.30	123.70
1	AA	126	DG	C5-C6-O6	-6.75	124.55	128.60
1	AA	5228	DA	C4-C5-C6	6.75	120.38	117.00
1	AA	5550	DG	C5-C6-O6	-6.75	124.55	128.60
36	Ab	15	DG	C5-C6-O6	-6.75	124.55	128.60
37	Ac	58	DG	C5-C6-O6	-6.75	124.55	128.60
79	BO	6	DA	C5-C6-N6	-6.75	118.30	123.70
156	Ct	31	DG	C5-C6-O6	-6.75	124.55	128.60
1	AA	647	DC	O4'-C1'-N1	6.75	112.73	108.00
1	AA	1644	DG	C5-C6-O6	-6.75	124.55	128.60
1	AA	4849	DG	C1'-O4'-C4'	-6.75	103.35	110.10
1	AA	6631	DG	C5-C6-O6	-6.75	124.55	128.60
106	Bp	48	DG	C5-C6-O6	-6.75	124.55	128.60
147	Ce	20	DG	C5-C6-O6	-6.75	124.55	128.60
1	AA	37	DA	P-O5'-C5'	6.75	131.70	120.90
1	AA	707	DG	C5-C6-O6	-6.75	124.55	128.60
1	AA	2938	DG	C5-C6-O6	-6.75	124.55	128.60
1	AA	3802	DG	C5-C6-O6	-6.75	124.55	128.60
1	AA	1192	DG	C5-C6-O6	-6.75	124.55	128.60
1	AA	1228	DG	C5-C6-O6	-6.75	124.55	128.60
1	AA	1331	DG	C5-C6-O6	-6.75	124.55	128.60
1	AA	2025	DC	O4'-C1'-C2'	-6.75	100.50	105.90
66	BB	22	DA	C5-C6-N6	-6.75	118.30	123.70
86	BV	14	DT	O4'-C4'-C3'	-6.75	101.80	104.50
1	AA	3271	DG	C5-C6-O6	-6.75	124.55	128.60
1	AA	4712	DG	C5-C6-O6	-6.75	124.55	128.60
26	AQ	4	DG	C5-C6-O6	-6.75	124.55	128.60
34	AY	2	DT	O4'-C4'-C3'	-6.75	101.80	104.50
43	Aj	38	DA	O4'-C1'-C2'	-6.75	100.50	105.90
74	BJ	22	DG	P-O3'-C3'	6.75	127.80	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
133	CP	25	DG	C5-C6-O6	-6.75	124.55	128.60
159	Cw	12	DG	C5-C6-O6	-6.75	124.55	128.60
1	AA	596	DG	C5-C6-O6	-6.75	124.55	128.60
1	AA	2568	DG	C5-C6-O6	-6.75	124.55	128.60
1	AA	6269	DA	C1'-O4'-C4'	-6.75	103.36	110.10
108	Br	33	DG	C5-C6-O6	-6.75	124.55	128.60
1	AA	98	DA	C5-C6-N6	-6.74	118.31	123.70
1	AA	1055	DT	O4'-C1'-N1	6.74	112.72	108.00
1	AA	1307	DA	C1'-O4'-C4'	-6.74	103.36	110.10
1	AA	3015	DA	C4-C5-C6	6.74	120.37	117.00
1	AA	4600	DC	C1'-O4'-C4'	-6.74	103.36	110.10
1	AA	4953	DA	C5-C6-N6	-6.74	118.31	123.70
1	AA	5618	DC	N3-C4-N4	6.74	122.72	118.00
1	AA	5920	DG	C5-C6-O6	-6.74	124.55	128.60
59	B3	27	DG	C5-C6-O6	-6.74	124.55	128.60
152	Cp	21	DG	C5-C6-O6	-6.74	124.55	128.60
1	AA	3817	DG	O4'-C1'-C2'	-6.74	100.51	105.90
55	Az	36	DG	C5-C6-O6	-6.74	124.56	128.60
115	C5	7	DG	C5-C6-O6	-6.74	124.56	128.60
1	AA	2002	DG	C5-C6-O6	-6.74	124.56	128.60
1	AA	2578	DG	C5-C6-O6	-6.74	124.56	128.60
1	AA	5514	DT	O4'-C1'-C2'	-6.74	100.51	105.90
1	AA	6722	DG	C5-C6-O6	-6.74	124.56	128.60
52	Aw	25	DG	C5-C6-O6	-6.74	124.56	128.60
59	B3	15	DG	C5-C6-O6	-6.74	124.56	128.60
73	BI	11	DA	P-O3'-C3'	6.74	127.79	119.70
77	BM	22	DG	C5-C6-O6	-6.74	124.56	128.60
92	Bb	12	DG	C5-C6-O6	-6.74	124.56	128.60
117	C7	15	DA	C4-C5-C6	6.74	120.37	117.00
141	CX	31	DC	N3-C4-N4	6.74	122.72	118.00
1	AA	345	DG	C5-C6-O6	-6.74	124.56	128.60
1	AA	623	DG	C5-C6-O6	-6.74	124.56	128.60
1	AA	3828	DG	C5-C6-O6	-6.74	124.56	128.60
1	AA	3983	DG	C5-C6-O6	-6.74	124.56	128.60
1	AA	5660	DC	O4'-C1'-N1	6.74	112.72	108.00
1	AA	7131	DG	C5-C6-O6	-6.74	124.56	128.60
20	AK	50	DG	O4'-C1'-C2'	-6.74	100.51	105.90
66	BB	44	DG	C5-C6-O6	-6.74	124.56	128.60
106	Bp	42	DG	C5-C6-O6	-6.74	124.56	128.60
1	AA	3343	DA	C5-C6-N6	-6.74	118.31	123.70
1	AA	1587	DG	C5-C6-O6	-6.74	124.56	128.60
1	AA	4971	DG	P-O5'-C5'	6.74	131.68	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	7199	DG	C5-C6-O6	-6.74	124.56	128.60
62	B6	37	DG	C5-C6-O6	-6.74	124.56	128.60
1	AA	591	DA	C5-C6-N6	-6.73	118.31	123.70
81	BQ	25	DG	C5-C6-O6	-6.73	124.56	128.60
133	CP	11	DA	C1'-O4'-C4'	-6.73	103.37	110.10
134	CQ	14	DA	C5-C6-N6	-6.73	118.31	123.70
1	AA	215	DG	C5-C6-O6	-6.73	124.56	128.60
1	AA	646	DG	C5-C6-O6	-6.73	124.56	128.60
1	AA	2315	DG	C5-C6-O6	-6.73	124.56	128.60
1	AA	3826	DG	C5-C6-O6	-6.73	124.56	128.60
1	AA	5434	DA	C5-C6-N6	-6.73	118.31	123.70
1	AA	6184	DT	C1'-O4'-C4'	-6.73	103.37	110.10
1	AA	7061	DG	C5-C6-O6	-6.73	124.56	128.60
78	BN	60	DG	O4'-C1'-N9	6.73	112.71	108.00
1	AA	1251	DG	O4'-C4'-C3'	-6.73	101.81	104.50
1	AA	1266	DT	O4'-C4'-C3'	-6.73	101.81	104.50
1	AA	6513	DA	O4'-C1'-C2'	-6.73	100.52	105.90
65	B9	46	DG	C5-C6-O6	-6.73	124.56	128.60
159	Cw	32	DA	O4'-C4'-C3'	-6.73	101.81	104.50
160	Cx	39	DA	C5-C6-N6	-6.73	118.31	123.70
1	AA	2588	DG	C5-C6-O6	-6.73	124.56	128.60
1	AA	5024	DG	C5-C6-O6	-6.73	124.56	128.60
17	AH	4	DG	C5-C6-O6	-6.73	124.56	128.60
1	AA	895	DG	C5-C6-O6	-6.73	124.56	128.60
1	AA	3288	DG	C5-C6-O6	-6.73	124.56	128.60
1	AA	4948	DA	C5-C6-N6	-6.73	118.32	123.70
1	AA	6373	DG	C5-C6-O6	-6.73	124.56	128.60
55	Az	36	DG	P-O3'-C3'	6.73	127.77	119.70
63	B7	23	DG	C5-C6-O6	-6.73	124.56	128.60
69	BE	43	DG	C5-C6-O6	-6.73	124.56	128.60
81	BQ	37	DG	C5-C6-O6	-6.73	124.56	128.60
86	BV	22	DG	C5-C6-O6	-6.73	124.56	128.60
99	Bi	24	DG	C5-C6-O6	-6.73	124.56	128.60
126	CI	10	DG	C5-C6-O6	-6.73	124.56	128.60
130	CM	30	DG	C5-C6-O6	-6.73	124.56	128.60
141	CX	44	DC	N3-C4-N4	6.73	122.71	118.00
1	AA	560	DG	C5-C6-O6	-6.73	124.56	128.60
1	AA	2631	DG	C5-C6-O6	-6.73	124.56	128.60
1	AA	2869	DG	C5-C6-O6	-6.73	124.56	128.60
1	AA	3257	DG	C5-C6-O6	-6.73	124.56	128.60
1	AA	4795	DG	C5-C6-O6	-6.73	124.56	128.60
37	Ac	39	DA	O4'-C1'-N9	6.73	112.71	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	443	DG	C5-C6-O6	-6.72	124.57	128.60
1	AA	927	DA	C5-C6-N6	-6.72	118.32	123.70
1	AA	2824	DG	C5-C6-O6	-6.72	124.57	128.60
1	AA	4927	DG	C5-C6-O6	-6.72	124.56	128.60
28	AS	10	DG	P-O3'-C3'	6.72	127.77	119.70
50	Au	7	DG	C1'-O4'-C4'	-6.72	103.38	110.10
73	BI	8	DG	C5-C6-O6	-6.72	124.56	128.60
76	BL	48	DA	O4'-C1'-C2'	-6.72	100.52	105.90
84	BT	21	DC	P-O3'-C3'	6.72	127.77	119.70
85	BU	37	DA	C4-C5-C6	6.72	120.36	117.00
93	Bc	42	DG	C5-C6-O6	-6.72	124.56	128.60
124	CG	39	DG	C5-C6-O6	-6.72	124.56	128.60
1	AA	818	DG	C5-C6-O6	-6.72	124.57	128.60
1	AA	1714	DG	C5-C6-O6	-6.72	124.57	128.60
16	AG	4	DG	C5-C6-O6	-6.72	124.57	128.60
45	Al	18	DA	C5-C6-N6	-6.72	118.32	123.70
1	AA	498	DA	C5-C6-N6	-6.72	118.32	123.70
1	AA	5885	DA	C4-C5-C6	6.72	120.36	117.00
1	AA	6596	DG	C5-C6-O6	-6.72	124.57	128.60
31	AV	6	DG	C5-C6-O6	-6.72	124.57	128.60
71	BG	27	DG	C5-C6-O6	-6.72	124.57	128.60
1	AA	1086	DG	C5-C6-O6	-6.72	124.57	128.60
1	AA	4089	DG	C5-C6-O6	-6.72	124.57	128.60
1	AA	4273	DT	O4'-C1'-C2'	-6.72	100.53	105.90
1	AA	4841	DG	C5-C6-O6	-6.72	124.57	128.60
1	AA	6864	DC	O4'-C1'-C2'	-6.72	100.53	105.90
140	CW	35	DG	C5-C6-O6	-6.72	124.57	128.60
1	AA	218	DG	C5-C6-O6	-6.72	124.57	128.60
1	AA	3734	DG	C5-C6-O6	-6.72	124.57	128.60
1	AA	4086	DG	P-O3'-C3'	6.72	127.76	119.70
42	Ai	2	DA	C4-C5-C6	6.72	120.36	117.00
101	Bk	39	DG	C5-C6-O6	-6.72	124.57	128.60
150	Ch	20	DC	P-O3'-C3'	6.72	127.76	119.70
1	AA	251	DA	O4'-C4'-C3'	-6.72	101.81	104.50
1	AA	353	DG	C5-C6-O6	-6.72	124.57	128.60
1	AA	496	DG	C5-C6-O6	-6.72	124.57	128.60
1	AA	2919	DA	C5-C6-N6	-6.72	118.33	123.70
94	Bd	52	DG	C5-C6-O6	-6.72	124.57	128.60
107	Bq	5	DG	C5-C6-O6	-6.72	124.57	128.60
113	C3	19	DC	O4'-C1'-N1	6.72	112.70	108.00
145	Cc	36	DA	C5-C6-N6	-6.72	118.33	123.70
1	AA	545	DG	C5-C6-O6	-6.71	124.57	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3216	DG	C5-C6-O6	-6.71	124.57	128.60
1	AA	3778	DC	P-O3'-C3'	6.71	127.76	119.70
24	AO	47	DG	C5-C6-O6	-6.71	124.57	128.60
26	AQ	42	DG	C5-C6-O6	-6.71	124.57	128.60
102	Bl	8	DG	C5-C6-O6	-6.71	124.57	128.60
109	Bs	37	DG	C5-C6-O6	-6.71	124.57	128.60
1	AA	6670	DG	C5-C6-O6	-6.71	124.57	128.60
138	CU	1	DA	O4'-C1'-C2'	-6.71	100.53	105.90
1	AA	320	DG	C5-C6-O6	-6.71	124.57	128.60
1	AA	4225	DG	C5-C6-O6	-6.71	124.57	128.60
1	AA	6754	DG	C5-C6-O6	-6.71	124.57	128.60
2	A0	7	DG	C5-C6-O6	-6.71	124.57	128.60
34	AY	11	DA	C4-C5-C6	6.71	120.36	117.00
34	AY	37	DG	C5-C6-O6	-6.71	124.57	128.60
41	Ah	30	DC	N3-C4-N4	6.71	122.70	118.00
80	BP	20	DG	C5-C6-O6	-6.71	124.57	128.60
124	CG	5	DA	P-O3'-C3'	6.71	127.75	119.70
129	CL	7	DC	O4'-C1'-N1	6.71	112.70	108.00
1	AA	725	DT	C1'-O4'-C4'	-6.71	103.39	110.10
1	AA	2776	DG	C5-C6-O6	-6.71	124.57	128.60
1	AA	6300	DA	C1'-O4'-C4'	-6.71	103.39	110.10
124	CG	10	DG	C5-C6-O6	-6.71	124.57	128.60
1	AA	27	DG	C5-C6-O6	-6.71	124.58	128.60
26	AQ	43	DG	C5-C6-O6	-6.71	124.57	128.60
27	AR	62	DG	C5-C6-O6	-6.71	124.58	128.60
28	AS	37	DA	P-O3'-C3'	6.71	127.75	119.70
29	AT	26	DC	N3-C4-C5	-6.71	119.22	121.90
103	Bm	6	DG	C5-C6-O6	-6.71	124.58	128.60
161	Cy	33	DA	C5-C6-N6	-6.71	118.33	123.70
1	AA	1122	DC	O4'-C1'-N1	6.71	112.69	108.00
1	AA	5587	DA	O4'-C1'-C2'	-6.71	100.53	105.90
1	AA	6361	DG	C5-C6-O6	-6.71	124.58	128.60
35	AZ	6	DG	C5-C6-O6	-6.71	124.58	128.60
49	As	26	DA	C5-C6-N6	-6.71	118.33	123.70
118	C8	8	DC	N3-C4-N4	6.71	122.69	118.00
140	CW	15	DG	C5-C6-O6	-6.71	124.58	128.60
145	Cc	57	DG	C5-C6-O6	-6.71	124.58	128.60
159	Cw	37	DG	C5-C6-O6	-6.71	124.58	128.60
1	AA	778	DG	C5-C6-O6	-6.71	124.58	128.60
1	AA	957	DG	C5-C6-O6	-6.71	124.58	128.60
1	AA	7108	DT	O4'-C1'-N1	6.71	112.69	108.00
11	AB	1	DG	C5-C6-O6	-6.71	124.58	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
24	AO	7	DA	O4'-C1'-N9	6.71	112.69	108.00
78	BN	15	DG	C5-C6-O6	-6.71	124.58	128.60
1	AA	1583	DA	C5-C6-N6	-6.70	118.34	123.70
26	AQ	50	DG	O4'-C1'-N9	6.70	112.69	108.00
78	BN	63	DG	C5-C6-O6	-6.70	124.58	128.60
98	Bh	10	DG	C5-C6-O6	-6.70	124.58	128.60
102	Bl	40	DG	C5-C6-O6	-6.70	124.58	128.60
114	C4	43	DG	C5-C6-O6	-6.70	124.58	128.60
58	B2	8	DG	P-O3'-C3'	6.70	127.74	119.70
103	Bm	15	DG	C5-C6-O6	-6.70	124.58	128.60
1	AA	1169	DG	C5-C6-O6	-6.70	124.58	128.60
1	AA	4145	DT	O4'-C1'-C2'	-6.70	100.54	105.90
1	AA	4258	DG	C5-C6-O6	-6.70	124.58	128.60
52	Aw	11	DC	O4'-C1'-N1	6.70	112.69	108.00
54	Ay	29	DG	C5-C6-O6	-6.70	124.58	128.60
84	BT	46	DG	C5-C6-O6	-6.70	124.58	128.60
100	Bj	34	DA	C4-C5-C6	6.70	120.35	117.00
1	AA	2613	DG	P-O3'-C3'	6.70	127.74	119.70
1	AA	3565	DG	C5-C6-O6	-6.70	124.58	128.60
1	AA	5844	DG	C5-C6-O6	-6.70	124.58	128.60
16	AG	22	DG	C5-C6-O6	-6.70	124.58	128.60
88	BX	42	DA	P-O3'-C3'	6.70	127.74	119.70
1	AA	937	DG	O4'-C1'-C2'	-6.70	100.54	105.90
26	AQ	49	DG	P-O3'-C3'	6.70	127.74	119.70
44	Ak	7	DG	C5-C6-O6	-6.70	124.58	128.60
78	BN	43	DG	C5-C6-O6	-6.70	124.58	128.60
79	BO	5	DA	C5-C6-N6	-6.70	118.34	123.70
102	Bl	23	DG	C5-C6-O6	-6.70	124.58	128.60
1	AA	1426	DT	O4'-C1'-C2'	-6.70	100.54	105.90
1	AA	2329	DG	C5-C6-O6	-6.70	124.58	128.60
1	AA	6785	DG	C5-C6-O6	-6.70	124.58	128.60
10	A8	37	DA	C5-C6-N6	-6.70	118.34	123.70
85	BU	29	DG	C5-C6-O6	-6.70	124.58	128.60
139	CV	41	DG	P-O3'-C3'	6.70	127.73	119.70
140	CW	33	DG	C5-C6-O6	-6.70	124.58	128.60
149	Cg	29	DG	C5-C6-O6	-6.70	124.58	128.60
1	AA	502	DG	C5-C6-O6	-6.69	124.58	128.60
1	AA	788	DG	C5-C6-O6	-6.69	124.58	128.60
55	Az	30	DG	C5-C6-O6	-6.69	124.58	128.60
66	BB	21	DG	C5-C6-O6	-6.69	124.58	128.60
1	AA	2206	DG	C5-C6-O6	-6.69	124.58	128.60
1	AA	4646	DG	C5-C6-O6	-6.69	124.58	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6623	DG	C5-C6-O6	-6.69	124.58	128.60
57	B1	30	DG	C5-C6-O6	-6.69	124.58	128.60
120	CC	22	DC	N3-C4-N4	6.69	122.68	118.00
149	Cg	36	DG	C5-C6-O6	-6.69	124.58	128.60
1	AA	2719	DA	O4'-C4'-C3'	-6.69	101.82	104.50
1	AA	2981	DG	C5-C6-O6	-6.69	124.59	128.60
90	BZ	11	DG	C5-C6-O6	-6.69	124.58	128.60
1	AA	4404	DG	C5-C6-O6	-6.69	124.59	128.60
90	BZ	59	DG	C5-C6-O6	-6.69	124.59	128.60
147	Ce	35	DG	C5-C6-O6	-6.69	124.59	128.60
1	AA	2895	DA	C5-C6-N6	-6.69	118.35	123.70
19	AJ	26	DG	C5-C6-O6	-6.69	124.59	128.60
45	Al	6	DC	N3-C4-N4	6.69	122.68	118.00
46	Am	12	DG	C5-C6-O6	-6.69	124.59	128.60
83	BS	22	DG	P-O3'-C3'	-6.69	111.67	119.70
112	C2	49	DA	C5-C6-N6	-6.69	118.35	123.70
150	Ch	16	DA	C5-C6-N6	-6.69	118.35	123.70
155	Cs	38	DG	C5-C6-O6	-6.69	124.59	128.60
1	AA	2153	DG	C5-C6-O6	-6.69	124.59	128.60
1	AA	2962	DG	C8-N9-C1'	6.69	135.69	127.00
1	AA	3748	DG	P-O3'-C3'	6.69	127.72	119.70
1	AA	5433	DA	O4'-C1'-C2'	-6.69	100.55	105.90
1	AA	6780	DG	C5-C6-O6	-6.69	124.59	128.60
1	AA	7026	DG	C5-C6-O6	-6.69	124.59	128.60
57	B1	12	DA	C4-C5-C6	6.69	120.34	117.00
1	AA	1136	DG	C5-C6-O6	-6.68	124.59	128.60
1	AA	1737	DG	C5-C6-O6	-6.68	124.59	128.60
1	AA	3440	DG	C5-C6-O6	-6.68	124.59	128.60
7	A5	39	DT	O4'-C1'-C2'	-6.68	100.55	105.90
107	Bq	38	DA	C5-C6-N6	-6.68	118.35	123.70
108	Br	45	DC	P-O3'-C3'	-6.68	111.68	119.70
1	AA	4025	DT	O4'-C4'-C3'	-6.68	101.83	104.50
1	AA	4108	DG	C5-C6-O6	-6.68	124.59	128.60
30	AU	48	DA	O4'-C1'-N9	6.68	112.68	108.00
47	An	13	DG	C5-C6-O6	-6.68	124.59	128.60
99	Bi	43	DA	C5-C6-N6	-6.68	118.35	123.70
107	Bq	20	DG	C5-C6-O6	-6.68	124.59	128.60
147	Ce	50	DC	P-O3'-C3'	-6.68	111.68	119.70
155	Cs	11	DA	C5-C6-N6	-6.68	118.35	123.70
1	AA	1243	DG	O4'-C1'-C2'	-6.68	100.56	105.90
102	Bl	3	DG	C5-C6-O6	-6.68	124.59	128.60
103	Bm	9	DG	C5-C6-O6	-6.68	124.59	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	472	DG	C5-C6-O6	-6.68	124.59	128.60
1	AA	1251	DG	C5-C6-O6	-6.68	124.59	128.60
1	AA	3285	DA	C5-C6-N6	-6.68	118.36	123.70
1	AA	3852	DG	C5-C6-O6	-6.68	124.59	128.60
1	AA	4087	DG	C5-C6-O6	-6.68	124.59	128.60
1	AA	5273	DT	P-O3'-C3'	6.68	127.72	119.70
1	AA	6414	DA	C5-C6-N6	-6.68	118.36	123.70
1	AA	6903	DG	C5-C6-O6	-6.68	124.59	128.60
16	AG	44	DC	P-O3'-C3'	6.68	127.71	119.70
20	AK	28	DC	N3-C4-N4	6.68	122.67	118.00
26	AQ	57	DC	O4'-C1'-N1	6.68	112.67	108.00
63	B7	4	DG	C5-C6-O6	-6.68	124.59	128.60
123	CF	38	DA	C4-C5-C6	6.68	120.34	117.00
130	CM	23	DA	P-O3'-C3'	6.68	127.72	119.70
133	CP	51	DG	C5-C6-O6	-6.68	124.59	128.60
1	AA	4351	DG	C5-C6-O6	-6.68	124.59	128.60
106	Bp	4	DA	C5-C6-N6	-6.68	118.36	123.70
131	CN	38	DA	C4-C5-C6	6.68	120.34	117.00
1	AA	233	DG	C5-C6-O6	-6.68	124.59	128.60
1	AA	757	DG	C5-C6-O6	-6.68	124.59	128.60
1	AA	3249	DG	C5-C6-O6	-6.68	124.59	128.60
1	AA	3836	DG	C5-C6-O6	-6.68	124.59	128.60
1	AA	4956	DG	C5-C6-O6	-6.68	124.59	128.60
17	AH	34	DG	C5-C6-O6	-6.68	124.59	128.60
18	AI	42	DG	C5-C6-O6	-6.68	124.59	128.60
115	C5	40	DT	P-O3'-C3'	6.68	127.71	119.70
137	CT	1	DG	C5-C6-O6	-6.68	124.59	128.60
143	CZ	36	DG	C5-C6-O6	-6.68	124.59	128.60
151	Ck	26	DG	C5-C6-O6	-6.68	124.59	128.60
1	AA	180	DG	C5-C6-O6	-6.67	124.59	128.60
1	AA	6963	DG	C5-C6-O6	-6.67	124.59	128.60
1	AA	7060	DC	O4'-C1'-C2'	-6.67	100.56	105.90
71	BG	17	DG	C5-C6-O6	-6.67	124.60	128.60
1	AA	3647	DG	C5-C6-O6	-6.67	124.60	128.60
1	AA	3669	DG	C5-C6-O6	-6.67	124.60	128.60
33	AX	48	DA	O4'-C1'-N9	6.67	112.67	108.00
51	Av	4	DG	C5-C6-O6	-6.67	124.60	128.60
83	BS	48	DG	C5-C6-O6	-6.67	124.60	128.60
133	CP	23	DG	C5-C6-O6	-6.67	124.60	128.60
139	CV	41	DG	C5-C6-O6	-6.67	124.60	128.60
1	AA	2754	DG	C5-C6-O6	-6.67	124.60	128.60
1	AA	4026	DG	C1'-O4'-C4'	-6.67	103.43	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	4090	DC	O4'-C1'-C2'	-6.67	100.56	105.90
1	AA	6972	DG	C5-C6-O6	-6.67	124.60	128.60
13	AD	29	DC	N3-C4-N4	6.67	122.67	118.00
40	Ag	33	DG	C5-C6-O6	-6.67	124.60	128.60
66	BB	17	DG	C5-C6-O6	-6.67	124.60	128.60
89	BY	10	DG	C5-C6-O6	-6.67	124.60	128.60
101	Bk	8	DG	C5-C6-O6	-6.67	124.60	128.60
105	Bo	8	DG	C5-C6-O6	-6.67	124.60	128.60
108	Br	49	DG	C5-C6-O6	-6.67	124.60	128.60
1	AA	7030	DG	C5-C6-O6	-6.67	124.60	128.60
13	AD	28	DC	O4'-C1'-C2'	-6.67	100.56	105.90
24	AO	46	DT	P-O3'-C3'	-6.67	111.70	119.70
148	Cf	13	DG	C5-C6-O6	-6.67	124.60	128.60
152	Cp	45	DG	C5-C6-O6	-6.67	124.60	128.60
1	AA	3250	DG	C5-C6-O6	-6.67	124.60	128.60
1	AA	3954	DG	C5-C6-O6	-6.67	124.60	128.60
1	AA	5939	DG	C5-C6-O6	-6.67	124.60	128.60
1	AA	6843	DG	C5-C6-O6	-6.67	124.60	128.60
15	AF	38	DG	C5-C6-O6	-6.67	124.60	128.60
27	AR	29	DG	C5-C6-O6	-6.67	124.60	128.60
48	Ao	23	DA	C5-C6-N6	-6.67	118.36	123.70
162	Cz	36	DA	C5-C6-N6	-6.67	118.37	123.70
162	Cz	46	DA	O4'-C4'-C3'	-6.67	101.83	104.50
1	AA	213	DG	C5-C6-O6	-6.67	124.60	128.60
1	AA	3180	DC	P-O3'-C3'	6.67	127.70	119.70
1	AA	6352	DG	C5-C6-O6	-6.67	124.60	128.60
136	CS	33	DG	C5-C6-O6	-6.67	124.60	128.60
161	Cy	22	DA	C4-C5-C6	6.67	120.33	117.00
1	AA	2568	DG	O4'-C1'-C2'	-6.67	100.57	105.90
4	A2	13	DA	O4'-C1'-N9	6.67	112.67	108.00
36	Ab	25	DG	C5-C6-O6	-6.67	124.60	128.60
56	B0	13	DG	P-O3'-C3'	6.67	127.70	119.70
1	AA	1107	DG	C5-C6-O6	-6.66	124.60	128.60
1	AA	1586	DA	C5-C6-N6	-6.66	118.37	123.70
1	AA	7073	DA	C5-C6-N6	-6.66	118.37	123.70
12	AC	42	DG	C5-C6-O6	-6.66	124.60	128.60
32	AW	18	DC	O4'-C4'-C3'	-6.66	101.83	104.50
83	BS	15	DC	O4'-C4'-C3'	-6.66	101.83	104.50
95	Be	25	DC	C1'-O4'-C4'	-6.66	103.44	110.10
120	CC	35	DA	C5-C6-N6	-6.66	118.37	123.70
131	CN	12	DG	C5-C6-O6	-6.66	124.60	128.60
151	Ck	30	DT	O4'-C4'-C3'	-6.66	101.83	104.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	50	DG	C5-C6-O6	-6.66	124.60	128.60
1	AA	763	DG	C5-C6-O6	-6.66	124.60	128.60
1	AA	921	DA	O4'-C1'-C2'	-6.66	100.57	105.90
1	AA	2565	DG	P-O3'-C3'	6.66	127.69	119.70
1	AA	4791	DG	C5-C6-O6	-6.66	124.60	128.60
42	Ai	14	DG	C5-C6-O6	-6.66	124.60	128.60
153	Cq	17	DG	C5-C6-O6	-6.66	124.60	128.60
1	AA	1831	DG	C5-C6-O6	-6.66	124.60	128.60
1	AA	3566	DG	C5-C6-O6	-6.66	124.60	128.60
1	AA	4818	DG	C5-C6-O6	-6.66	124.60	128.60
1	AA	5816	DA	C5-C6-N6	-6.66	118.37	123.70
1	AA	6077	DA	C4-C5-C6	6.66	120.33	117.00
30	AU	38	DC	N3-C4-N4	6.66	122.66	118.00
40	Ag	32	DG	C5-C6-O6	-6.66	124.60	128.60
56	B0	39	DG	C5-C6-O6	-6.66	124.60	128.60
147	Ce	5	DG	C5-C6-O6	-6.66	124.60	128.60
148	Cf	48	DT	O4'-C4'-C3'	-6.66	101.84	104.50
1	AA	5347	DA	O4'-C1'-C2'	-6.66	100.57	105.90
1	AA	6888	DG	C5-C6-O6	-6.66	124.60	128.60
114	C4	2	DG	C5-C6-O6	-6.66	124.61	128.60
1	AA	4641	DT	P-O3'-C3'	6.66	127.69	119.70
1	AA	4922	DG	C5-C6-O6	-6.66	124.61	128.60
1	AA	6888	DG	O4'-C4'-C3'	-6.66	101.84	104.50
19	AJ	44	DG	C5-C6-O6	-6.66	124.61	128.60
131	CN	23	DG	C5-C6-O6	-6.66	124.61	128.60
1	AA	2238	DG	C5-C6-O6	-6.66	124.61	128.60
1	AA	3868	DG	C5-C6-O6	-6.66	124.61	128.60
1	AA	5484	DA	C4-C5-C6	6.66	120.33	117.00
6	A4	36	DG	C5-C6-O6	-6.66	124.61	128.60
20	AK	1	DA	C4-C5-C6	6.66	120.33	117.00
50	Au	30	DC	O4'-C4'-C3'	-6.66	101.84	104.50
61	B5	36	DA	P-O3'-C3'	6.66	127.69	119.70
151	Ck	20	DG	C5-C6-O6	-6.66	124.61	128.60
152	Cp	6	DG	C5-C6-O6	-6.66	124.61	128.60
1	AA	1451	DG	C5-C6-O6	-6.65	124.61	128.60
1	AA	2957	DG	C5-C6-O6	-6.65	124.61	128.60
1	AA	4640	DG	C5-C6-O6	-6.65	124.61	128.60
1	AA	323	DG	C5-C6-O6	-6.65	124.61	128.60
1	AA	1183	DG	C5-C6-O6	-6.65	124.61	128.60
1	AA	1201	DG	C5-C6-O6	-6.65	124.61	128.60
1	AA	1384	DA	C4-C5-C6	6.65	120.33	117.00
1	AA	1752	DG	C5-C6-O6	-6.65	124.61	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	4319	DG	C5-C6-O6	-6.65	124.61	128.60
1	AA	4474	DG	C5-C6-O6	-6.65	124.61	128.60
1	AA	6440	DC	O4'-C1'-C2'	-6.65	100.58	105.90
1	AA	7017	DG	C5-C6-O6	-6.65	124.61	128.60
25	AP	8	DG	C5-C6-O6	-6.65	124.61	128.60
38	Ad	19	DG	C5-C6-O6	-6.65	124.61	128.60
94	Bd	22	DG	C5-C6-O6	-6.65	124.61	128.60
95	Be	42	DG	C5-C6-O6	-6.65	124.61	128.60
110	C0	12	DG	C5-C6-O6	-6.65	124.61	128.60
150	Ch	31	DG	C5-C6-O6	-6.65	124.61	128.60
1	AA	696	DG	C5-C6-O6	-6.65	124.61	128.60
1	AA	3142	DA	P-O3'-C3'	6.65	127.68	119.70
1	AA	3883	DG	C5-C6-O6	-6.65	124.61	128.60
1	AA	4180	DT	O4'-C1'-C2'	-6.65	100.58	105.90
1	AA	4796	DG	C5-C6-O6	-6.65	124.61	128.60
1	AA	5641	DG	C5-C6-O6	-6.65	124.61	128.60
84	BT	6	DG	C5-C6-O6	-6.65	124.61	128.60
146	Cd	38	DG	C5-C6-O6	-6.65	124.61	128.60
1	AA	661	DG	C5-C6-O6	-6.65	124.61	128.60
4	A2	35	DA	C5-C6-N6	-6.65	118.38	123.70
17	AH	42	DA	C4-C5-C6	6.65	120.32	117.00
48	Ao	18	DA	C4-C5-C6	6.65	120.32	117.00
102	Bl	35	DA	C4-C5-C6	6.65	120.33	117.00
127	CJ	49	DG	C5-C6-O6	-6.65	124.61	128.60
144	Cb	10	DG	O4'-C1'-C2'	-6.65	100.58	105.90
152	Cp	47	DA	C4'-C3'-C2'	-6.65	97.12	103.10
1	AA	1555	DG	C5-C6-O6	-6.65	124.61	128.60
10	A8	13	DA	C5-C6-N6	-6.65	118.38	123.70
18	AI	40	DC	O4'-C1'-C2'	-6.65	100.58	105.90
28	AS	30	DG	C5-C6-O6	-6.65	124.61	128.60
48	Ao	12	DG	C5-C6-O6	-6.65	124.61	128.60
53	Ax	22	DG	P-O3'-C3'	6.65	127.68	119.70
54	Ay	27	DG	C5-C6-O6	-6.65	124.61	128.60
1	AA	285	DG	C5-C6-O6	-6.65	124.61	128.60
1	AA	5266	DT	O4'-C1'-N1	6.65	112.65	108.00
104	Bn	53	DG	C5-C6-O6	-6.65	124.61	128.60
128	CK	29	DG	C5-C6-O6	-6.65	124.61	128.60
131	CN	14	DG	C5-C6-O6	-6.65	124.61	128.60
1	AA	2804	DG	C5-C6-O6	-6.64	124.61	128.60
1	AA	4057	DG	C5-C6-O6	-6.64	124.61	128.60
91	Ba	46	DG	C1'-O4'-C4'	-6.64	103.46	110.10
93	Bc	25	DG	C5-C6-O6	-6.64	124.61	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1247	DG	C5-C6-O6	-6.64	124.61	128.60
1	AA	3232	DG	C5-C6-O6	-6.64	124.61	128.60
1	AA	3263	DT	O4'-C4'-C3'	-6.64	101.84	104.50
1	AA	6856	DG	C5-C6-O6	-6.64	124.61	128.60
29	AT	25	DG	C5-C6-O6	-6.64	124.61	128.60
61	B5	34	DG	C5-C6-O6	-6.64	124.61	128.60
20	AK	23	DA	C5-C6-N6	-6.64	118.39	123.70
155	Cs	27	DG	C5-C6-O6	-6.64	124.62	128.60
1	AA	599	DG	C5-C6-O6	-6.64	124.62	128.60
1	AA	2272	DG	C5-C6-O6	-6.64	124.62	128.60
1	AA	3209	DG	C5-C6-O6	-6.64	124.62	128.60
1	AA	4556	DG	C5-C6-O6	-6.64	124.62	128.60
1	AA	5803	DA	O4'-C1'-C2'	-6.64	100.59	105.90
68	BD	27	DG	C5-C6-O6	-6.64	124.62	128.60
128	CK	32	DA	C5-C6-N6	-6.64	118.39	123.70
142	CY	19	DA	P-O3'-C3'	6.64	127.67	119.70
1	AA	592	DC	N3-C4-N4	6.64	122.65	118.00
1	AA	3279	DG	C5-C6-O6	-6.64	124.62	128.60
70	BF	15	DA	C5-C6-N6	-6.64	118.39	123.70
111	C1	14	DG	C5-C6-O6	-6.64	124.62	128.60
1	AA	2041	DG	C5-C6-O6	-6.64	124.62	128.60
1	AA	3047	DA	C5-C6-N6	-6.64	118.39	123.70
1	AA	3123	DG	C5-C6-O6	-6.64	124.62	128.60
1	AA	5805	DT	P-O5'-C5'	6.64	131.52	120.90
17	AH	44	DG	C5-C6-O6	-6.64	124.62	128.60
18	AI	41	DA	C5-C6-N6	-6.64	118.39	123.70
48	Ao	28	DG	C5-C6-O6	-6.64	124.62	128.60
60	B4	14	DG	C5-C6-O6	-6.64	124.62	128.60
115	C5	6	DG	C5-C6-O6	-6.64	124.62	128.60
1	AA	675	DG	C5-C6-O6	-6.63	124.62	128.60
1	AA	6958	DA	O4'-C1'-C2'	-6.63	100.59	105.90
45	Al	5	DC	N3-C4-N4	6.63	122.64	118.00
81	BQ	6	DA	O3'-P-O5'	-6.63	91.40	104.00
130	CM	24	DG	C5-C6-O6	-6.63	124.62	128.60
1	AA	5677	DG	C5-C6-O6	-6.63	124.62	128.60
1	AA	1811	DA	C4-C5-C6	6.63	120.32	117.00
1	AA	3354	DG	C5-C6-O6	-6.63	124.62	128.60
1	AA	3624	DG	C5-C6-O6	-6.63	124.62	128.60
1	AA	4038	DG	C5-C6-O6	-6.63	124.62	128.60
1	AA	6391	DG	C5-C6-O6	-6.63	124.62	128.60
10	A8	7	DG	O4'-C1'-N9	6.63	112.64	108.00
59	B3	21	DG	C5-C6-O6	-6.63	124.62	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
118	C8	42	DG	C5-C6-O6	-6.63	124.62	128.60
1	AA	527	DG	C5-C6-O6	-6.63	124.62	128.60
1	AA	1882	DG	C5-C6-O6	-6.63	124.62	128.60
1	AA	6896	DG	C5-C6-O6	-6.63	124.62	128.60
29	AT	10	DA	C4-C5-C6	6.63	120.31	117.00
88	BX	39	DG	C5-C6-O6	-6.63	124.62	128.60
99	Bi	39	DG	C5-C6-O6	-6.63	124.62	128.60
1	AA	1935	DT	C1'-O4'-C4'	-6.63	103.47	110.10
1	AA	2149	DG	C5-C6-O6	-6.63	124.62	128.60
1	AA	2961	DG	C5-C6-O6	-6.63	124.62	128.60
1	AA	4881	DA	O4'-C4'-C3'	-6.63	101.85	104.50
1	AA	7204	DC	P-O3'-C3'	6.63	127.66	119.70
18	AI	33	DA	O4'-C1'-N9	6.63	112.64	108.00
36	Ab	45	DA	C5-C6-N6	-6.63	118.40	123.70
74	BJ	21	DG	C5-C6-O6	-6.63	124.62	128.60
1	AA	17	DG	C5-C6-O6	-6.63	124.62	128.60
1	AA	1105	DG	C5-C6-O6	-6.63	124.62	128.60
1	AA	3735	DG	C5-C6-O6	-6.63	124.62	128.60
1	AA	6016	DA	C5-C6-N6	-6.63	118.40	123.70
1	AA	7035	DG	C5-C6-O6	-6.63	124.62	128.60
85	BU	6	DG	C5-C6-O6	-6.63	124.62	128.60
98	Bh	15	DG	C5-C6-O6	-6.63	124.62	128.60
117	C7	23	DG	C5-C6-O6	-6.63	124.62	128.60
131	CN	8	DG	C5-C6-O6	-6.63	124.62	128.60
1	AA	6324	DG	C5-C6-O6	-6.62	124.62	128.60
1	AA	6338	DG	C5-C6-O6	-6.62	124.62	128.60
1	AA	6696	DG	C5-C6-O6	-6.62	124.62	128.60
1	AA	7070	DG	C5-C6-O6	-6.62	124.62	128.60
44	Ak	30	DA	C4-C5-C6	6.62	120.31	117.00
119	CB	3	DG	C5-C6-O6	-6.62	124.62	128.60
1	AA	3415	DC	O4'-C1'-C2'	-6.62	100.60	105.90
1	AA	5378	DG	C5-C6-O6	-6.62	124.63	128.60
1	AA	5707	DC	O4'-C1'-C2'	-6.62	100.60	105.90
1	AA	6668	DT	O4'-C1'-N1	6.62	112.64	108.00
26	AQ	13	DG	C5-C6-O6	-6.62	124.63	128.60
99	Bi	12	DG	C5-C6-O6	-6.62	124.62	128.60
121	CD	28	DA	O4'-C1'-N9	6.62	112.64	108.00
1	AA	765	DG	C5-C6-O6	-6.62	124.63	128.60
46	Am	14	DA	O4'-C1'-C2'	-6.62	100.60	105.90
93	Bc	47	DG	C5-C6-O6	-6.62	124.63	128.60
1	AA	757	DG	O4'-C1'-C2'	-6.62	100.60	105.90
1	AA	3186	DG	C5-C6-O6	-6.62	124.63	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5324	DT	P-O5'-C5'	6.62	131.49	120.90
59	B3	23	DG	C5-C6-O6	-6.62	124.63	128.60
112	C2	23	DC	O4'-C1'-N1	6.62	112.63	108.00
1	AA	9	DG	C5-C6-O6	-6.62	124.63	128.60
1	AA	2144	DG	C5-C6-O6	-6.62	124.63	128.60
1	AA	5313	DA	C4-C5-C6	6.62	120.31	117.00
1	AA	6250	DG	C5-C6-O6	-6.62	124.63	128.60
1	AA	7227	DG	C5-C6-O6	-6.62	124.63	128.60
71	BG	6	DG	C5-C6-O6	-6.62	124.63	128.60
121	CD	28	DA	P-O3'-C3'	6.62	127.64	119.70
1	AA	3014	DA	C5-C6-N6	-6.62	118.41	123.70
5	A3	6	DA	O4'-C4'-C3'	-6.62	101.85	104.50
1	AA	1377	DC	N3-C4-N4	6.62	122.63	118.00
1	AA	6519	DG	C5-C6-O6	-6.62	124.63	128.60
1	AA	7105	DC	N3-C4-N4	6.62	122.63	118.00
38	Ad	7	DA	C4-C5-C6	6.62	120.31	117.00
104	Bn	52	DG	C5-C6-O6	-6.62	124.63	128.60
112	C2	22	DA	C4-C5-C6	6.62	120.31	117.00
145	Cc	16	DG	C5-C6-O6	-6.62	124.63	128.60
162	Cz	2	DC	O4'-C1'-N1	6.62	112.63	108.00
1	AA	118	DA	C5-C6-N6	-6.61	118.41	123.70
1	AA	3489	DG	C5-C6-O6	-6.61	124.63	128.60
18	AI	35	DA	O4'-C1'-N9	6.61	112.63	108.00
86	BV	44	DG	C5-C6-O6	-6.61	124.63	128.60
93	Bc	9	DG	O4'-C1'-N9	6.61	112.63	108.00
129	CL	3	DC	P-O3'-C3'	6.61	127.64	119.70
148	Cf	48	DT	O4'-C1'-C2'	-6.61	100.61	105.90
1	AA	833	DA	C5-C6-N1	-6.61	114.39	117.70
1	AA	1489	DC	N3-C4-N4	6.61	122.63	118.00
4	A2	42	DA	C5-C6-N6	-6.61	118.41	123.70
16	AG	46	DG	C5-C6-O6	-6.61	124.63	128.60
124	CG	17	DG	C5-C6-O6	-6.61	124.63	128.60
1	AA	195	DC	C1'-O4'-C4'	-6.61	103.49	110.10
1	AA	280	DA	C5-C6-N6	-6.61	118.41	123.70
1	AA	1125	DG	C5-C6-O6	-6.61	124.63	128.60
1	AA	2447	DG	C5-C6-O6	-6.61	124.63	128.60
1	AA	4657	DC	O4'-C1'-C2'	-6.61	100.61	105.90
1	AA	5191	DA	C4-C5-C6	6.61	120.31	117.00
1	AA	5427	DA	C4-C5-C6	6.61	120.31	117.00
1	AA	5558	DG	C5-C6-O6	-6.61	124.63	128.60
1	AA	6733	DG	C5-C6-O6	-6.61	124.63	128.60
93	Bc	32	DG	C5-C6-O6	-6.61	124.63	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	984	DG	C5-C6-O6	-6.61	124.64	128.60
1	AA	3031	DA	C4-C5-C6	6.61	120.30	117.00
1	AA	4048	DG	C5-C6-O6	-6.61	124.64	128.60
1	AA	4123	DT	O4'-C1'-C2'	-6.61	100.61	105.90
52	Aw	14	DA	O4'-C1'-C2'	-6.61	100.61	105.90
95	Be	21	DG	C5-C6-O6	-6.61	124.64	128.60
129	CL	15	DA	C1'-O4'-C4'	-6.61	103.49	110.10
1	AA	332	DG	C5-C6-O6	-6.61	124.64	128.60
1	AA	2996	DG	C5-C6-O6	-6.61	124.64	128.60
1	AA	3141	DC	P-O3'-C3'	6.61	127.63	119.70
1	AA	6071	DA	C5-C6-N6	-6.61	118.42	123.70
21	AL	12	DC	N3-C4-N4	6.61	122.62	118.00
81	BQ	39	DT	C1'-O4'-C4'	-6.61	103.50	110.10
92	Bb	13	DG	P-O3'-C3'	6.61	127.63	119.70
103	Bm	1	DA	O4'-C1'-N9	6.61	112.62	108.00
129	CL	15	DA	C5-C6-N6	-6.61	118.42	123.70
149	Cg	12	DG	C5-C6-O6	-6.61	124.64	128.60
159	Cw	50	DG	C5-C6-O6	-6.61	124.64	128.60
1	AA	3342	DG	C5-C6-O6	-6.60	124.64	128.60
1	AA	5969	DA	C5-C6-N6	-6.60	118.42	123.70
56	B0	20	DG	C5-C6-O6	-6.60	124.64	128.60
76	BL	33	DC	N3-C4-N4	6.60	122.62	118.00
150	Ch	15	DG	O4'-C1'-N9	6.60	112.62	108.00
153	Cq	19	DG	C5-C6-O6	-6.60	124.64	128.60
158	Cv	22	DG	C5-C6-O6	-6.60	124.64	128.60
1	AA	794	DG	C5-C6-O6	-6.60	124.64	128.60
1	AA	1415	DG	C5-C6-O6	-6.60	124.64	128.60
1	AA	2687	DG	C5-C6-O6	-6.60	124.64	128.60
1	AA	3166	DG	C5-C6-O6	-6.60	124.64	128.60
2	A0	29	DA	C4-C5-C6	6.60	120.30	117.00
47	An	21	DC	N3-C4-N4	6.60	122.62	118.00
112	C2	6	DA	C4-C5-C6	6.60	120.30	117.00
127	CJ	51	DG	C5-C6-O6	-6.60	124.64	128.60
154	Cr	41	DC	O4'-C1'-N1	6.60	112.62	108.00
1	AA	1464	DA	C5-C6-N6	-6.60	118.42	123.70
1	AA	1795	DG	C5-C6-O6	-6.60	124.64	128.60
20	AK	48	DA	C5-C6-N6	-6.60	118.42	123.70
133	CP	53	DA	C5-C6-N6	-6.60	118.42	123.70
1	AA	710	DT	O4'-C1'-C2'	-6.60	100.62	105.90
1	AA	7014	DG	C5-C6-O6	-6.60	124.64	128.60
8	A6	19	DC	P-O3'-C3'	6.60	127.62	119.70
44	Ak	44	DG	C5-C6-O6	-6.60	124.64	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
66	BB	48	DG	C5-C6-O6	-6.60	124.64	128.60
158	Cv	27	DG	C5-C6-O6	-6.60	124.64	128.60
1	AA	2695	DC	N3-C4-N4	6.60	122.62	118.00
1	AA	4905	DG	C5-C6-O6	-6.60	124.64	128.60
1	AA	6124	DG	C5-C6-O6	-6.60	124.64	128.60
104	Bn	14	DT	C1'-O4'-C4'	-6.60	103.50	110.10
151	Ck	24	DG	C5-C6-O6	-6.60	124.64	128.60
1	AA	3963	DG	O4'-C1'-C2'	-6.59	100.62	105.90
1	AA	5800	DG	C5-C6-O6	-6.59	124.64	128.60
33	AX	42	DA	C5-C6-N6	-6.59	118.42	123.70
61	B5	40	DG	C5-C6-O6	-6.59	124.64	128.60
1	AA	1849	DG	C5-C6-O6	-6.59	124.64	128.60
1	AA	3122	DA	C5-C6-N6	-6.59	118.43	123.70
26	AQ	38	DG	O4'-C1'-N9	6.59	112.61	108.00
33	AX	39	DA	C4-C5-C6	6.59	120.30	117.00
43	Aj	28	DA	C5-C6-N6	-6.59	118.43	123.70
45	Al	25	DC	P-O3'-C3'	6.59	127.61	119.70
48	Ao	18	DA	C5-C6-N6	-6.59	118.43	123.70
85	BU	28	DG	C5-C6-O6	-6.59	124.64	128.60
1	AA	1419	DT	O4'-C1'-N1	6.59	112.61	108.00
1	AA	1682	DG	C5-C6-O6	-6.59	124.64	128.60
1	AA	2004	DG	O4'-C1'-C2'	-6.59	100.63	105.90
1	AA	2032	DG	C5-C6-O6	-6.59	124.64	128.60
1	AA	4413	DG	C5-C6-O6	-6.59	124.64	128.60
1	AA	4897	DC	O4'-C1'-N1	6.59	112.61	108.00
1	AA	5332	DA	C5-C6-N6	-6.59	118.43	123.70
1	AA	6767	DG	C5-C6-O6	-6.59	124.64	128.60
71	BG	15	DG	C5-C6-O6	-6.59	124.64	128.60
92	Bb	20	DG	C5-C6-O6	-6.59	124.64	128.60
107	Bq	1	DA	O4'-C1'-N9	6.59	112.61	108.00
1	AA	4645	DG	C5-C6-O6	-6.59	124.65	128.60
1	AA	6576	DG	C5-C6-O6	-6.59	124.65	128.60
96	Bf	33	DG	C5-C6-O6	-6.59	124.65	128.60
108	Br	47	DT	O4'-C4'-C3'	-6.59	101.86	104.50
118	C8	41	DG	C5-C6-O6	-6.59	124.65	128.60
122	CE	11	DA	C5-C6-N6	-6.59	118.43	123.70
134	CQ	34	DA	C4-C5-C6	6.59	120.30	117.00
149	Cg	32	DG	C5-C6-O6	-6.59	124.65	128.60
1	AA	1740	DA	C5-C6-N6	-6.59	118.43	123.70
6	A4	2	DG	C5-C6-O6	-6.59	124.65	128.60
8	A6	5	DG	C5-C6-O6	-6.59	124.65	128.60
20	AK	4	DG	C5-C6-O6	-6.59	124.65	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2775	DA	C5-C6-N6	-6.59	118.43	123.70
1	AA	3228	DG	C5-C6-O6	-6.59	124.65	128.60
1	AA	4096	DG	C5-C6-O6	-6.59	124.65	128.60
1	AA	6364	DG	C5-C6-O6	-6.59	124.65	128.60
3	A1	21	DG	C5-C6-O6	-6.59	124.65	128.60
3	A1	35	DT	O4'-C1'-N1	6.59	112.61	108.00
19	AJ	48	DG	C5-C6-O6	-6.59	124.65	128.60
20	AK	41	DA	C5-C6-N6	-6.59	118.43	123.70
160	Cx	39	DA	C4-C5-C6	6.59	120.29	117.00
162	Cz	46	DA	C4-C5-C6	6.59	120.29	117.00
1	AA	2669	DA	C5-C6-N6	-6.58	118.43	123.70
1	AA	5888	DT	O4'-C1'-N1	6.58	112.61	108.00
10	A8	46	DG	C5-C6-O6	-6.58	124.65	128.60
23	AN	1	DG	O4'-C1'-N9	6.58	112.61	108.00
93	Bc	11	DG	C5-C6-O6	-6.58	124.65	128.60
131	CN	15	DG	C5-C6-O6	-6.58	124.65	128.60
1	AA	3557	DG	P-O3'-C3'	6.58	127.60	119.70
1	AA	3979	DA	O4'-C1'-C2'	-6.58	100.63	105.90
102	Bl	11	DG	C5-C6-O6	-6.58	124.65	128.60
120	CC	14	DG	C5-C6-O6	-6.58	124.65	128.60
136	CS	40	DC	O4'-C1'-C2'	-6.58	100.63	105.90
139	CV	13	DA	C4-C5-C6	6.58	120.29	117.00
152	Cp	11	DG	C5-C6-O6	-6.58	124.65	128.60
1	AA	5282	DG	C5-C6-O6	-6.58	124.65	128.60
1	AA	6543	DG	C5-C6-O6	-6.58	124.65	128.60
44	Ak	18	DG	C5-C6-O6	-6.58	124.65	128.60
75	BK	19	DG	C5-C6-O6	-6.58	124.65	128.60
77	BM	2	DA	C4-C5-C6	6.58	120.29	117.00
109	Bs	32	DG	C5-C6-O6	-6.58	124.65	128.60
121	CD	32	DA	C5-C6-N6	-6.58	118.44	123.70
124	CG	34	DG	C5-C6-O6	-6.58	124.65	128.60
1	AA	39	DG	C5-C6-O6	-6.58	124.65	128.60
87	BW	14	DA	P-O3'-C3'	6.58	127.59	119.70
1	AA	825	DA	C4-C5-C6	6.58	120.29	117.00
1	AA	1252	DG	P-O3'-C3'	6.58	127.59	119.70
1	AA	1353	DG	C5-C6-O6	-6.58	124.65	128.60
1	AA	2569	DG	C5-C6-O6	-6.58	124.65	128.60
1	AA	6781	DG	C5-C6-O6	-6.58	124.65	128.60
22	AM	44	DG	C5-C6-O6	-6.58	124.65	128.60
43	Aj	38	DA	C4-C5-C6	6.58	120.29	117.00
96	Bf	22	DG	C5-C6-O6	-6.58	124.65	128.60
98	Bh	38	DG	C5-C6-O6	-6.58	124.65	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
105	Bo	6	DA	C4-C5-C6	6.58	120.29	117.00
1	AA	358	DG	C5-C6-O6	-6.58	124.65	128.60
1	AA	3091	DA	C5-C6-N6	-6.58	118.44	123.70
1	AA	4135	DG	C5-C6-O6	-6.58	124.65	128.60
1	AA	5692	DA	C4-C5-C6	6.58	120.29	117.00
1	AA	5990	DC	N3-C4-N4	6.58	122.60	118.00
2	A0	53	DG	C5-C6-O6	-6.58	124.65	128.60
76	BL	35	DA	C5-C6-N6	-6.58	118.44	123.70
1	AA	4848	DG	C5-C6-O6	-6.58	124.66	128.60
1	AA	4945	DA	C1'-O4'-C4'	-6.58	103.53	110.10
1	AA	5661	DG	C5-C6-O6	-6.58	124.66	128.60
45	Al	19	DC	N3-C4-N4	6.58	122.60	118.00
63	B7	35	DT	O4'-C1'-N1	6.58	112.60	108.00
104	Bn	21	DG	C5-C6-O6	-6.58	124.66	128.60
121	CD	17	DA	C5-C6-N6	-6.58	118.44	123.70
132	CO	36	DA	C5-C6-N6	-6.58	118.44	123.70
140	CW	17	DG	C5-C6-O6	-6.58	124.66	128.60
153	Cq	38	DC	C4'-C3'-C2'	-6.58	97.18	103.10
36	Ab	13	DG	C5-C6-O6	-6.57	124.66	128.60
107	Bq	41	DG	C5-C6-O6	-6.57	124.66	128.60
113	C3	28	DA	C5-C6-N6	-6.57	118.44	123.70
143	CZ	18	DG	C5-C6-O6	-6.57	124.66	128.60
157	Cu	50	DG	C5-C6-O6	-6.57	124.66	128.60
1	AA	2962	DG	C4-N9-C1'	-6.57	117.96	126.50
121	CD	47	DA	C5-C6-N6	-6.57	118.44	123.70
1	AA	4862	DA	C5-C6-N6	-6.57	118.44	123.70
1	AA	6033	DT	O4'-C1'-C2'	-6.57	100.64	105.90
1	AA	2316	DG	C5-C6-O6	-6.57	124.66	128.60
1	AA	5542	DA	C5-C6-N6	-6.57	118.44	123.70
75	BK	31	DG	C5-C6-O6	-6.57	124.66	128.60
101	Bk	1	DA	P-O3'-C3'	6.57	127.58	119.70
1	AA	164	DG	C5-C6-O6	-6.57	124.66	128.60
1	AA	2509	DA	C5-C6-N6	-6.57	118.45	123.70
1	AA	6806	DG	C5-C6-O6	-6.57	124.66	128.60
9	A7	47	DA	C5-C6-N6	-6.57	118.45	123.70
85	BU	14	DG	C5-C6-O6	-6.57	124.66	128.60
144	Cb	31	DA	C4-C5-C6	6.57	120.28	117.00
1	AA	843	DA	C5-C6-N6	-6.57	118.45	123.70
1	AA	5464	DC	N3-C4-N4	6.57	122.60	118.00
1	AA	5894	DG	C5-C6-O6	-6.57	124.66	128.60
9	A7	48	DC	N3-C4-N4	6.57	122.59	118.00
21	AL	6	DA	C4-C5-C6	6.57	120.28	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
24	AO	10	DG	O4'-C1'-N9	6.57	112.60	108.00
33	AX	29	DA	C5-C6-N6	-6.57	118.45	123.70
47	An	20	DC	N3-C4-N4	6.57	122.60	118.00
80	BP	59	DG	C5-C6-O6	-6.57	124.66	128.60
92	Bb	16	DG	C5-C6-O6	-6.57	124.66	128.60
98	Bh	3	DG	C5-C6-O6	-6.57	124.66	128.60
132	CO	46	DG	O4'-C1'-N9	6.57	112.59	108.00
159	Cw	32	DA	C4-C5-C6	6.57	120.28	117.00
23	AN	4	DA	C5-C6-N6	-6.56	118.45	123.70
99	Bi	60	DA	C5-C6-N1	-6.56	114.42	117.70
1	AA	737	DG	C5-C6-O6	-6.56	124.66	128.60
1	AA	2544	DG	P-O3'-C3'	6.56	127.57	119.70
1	AA	6686	DG	C5-C6-O6	-6.56	124.66	128.60
17	AH	11	DG	C5-C6-O6	-6.56	124.66	128.60
35	AZ	15	DC	N3-C4-N4	6.56	122.59	118.00
43	Aj	60	DT	P-O3'-C3'	6.56	127.57	119.70
93	Bc	35	DG	C5-C6-O6	-6.56	124.66	128.60
112	C2	34	DA	C5-C6-N6	-6.56	118.45	123.70
1	AA	150	DG	C5-C6-O6	-6.56	124.66	128.60
78	BN	57	DC	O4'-C1'-C2'	-6.56	100.65	105.90
1	AA	397	DG	C5-C6-O6	-6.56	124.67	128.60
1	AA	688	DG	C5-C6-O6	-6.56	124.66	128.60
1	AA	1188	DG	C5-C6-O6	-6.56	124.66	128.60
1	AA	2565	DG	C5-C6-O6	-6.56	124.67	128.60
1	AA	2975	DG	C5-C6-O6	-6.56	124.66	128.60
19	AJ	16	DA	C5-C6-N6	-6.56	118.45	123.70
41	Ah	33	DA	C4-C5-C6	6.56	120.28	117.00
42	Ai	6	DA	O4'-C1'-N9	6.56	112.59	108.00
57	B1	43	DG	C5-C6-O6	-6.56	124.66	128.60
92	Bb	10	DC	O4'-C1'-N1	6.56	112.59	108.00
109	Bs	9	DA	C5-C6-N6	-6.56	118.45	123.70
130	CM	54	DC	O4'-C4'-C3'	-6.56	101.88	104.50
160	Cx	43	DC	P-O3'-C3'	6.56	127.57	119.70
1	AA	624	DC	P-O3'-C3'	6.56	127.57	119.70
1	AA	1566	DA	C5-C6-N6	-6.56	118.45	123.70
1	AA	3314	DA	C5-C6-N6	-6.56	118.45	123.70
70	BF	30	DA	C5-C6-N6	-6.56	118.45	123.70
116	C6	43	DC	O4'-C1'-C2'	-6.56	100.66	105.90
135	CR	42	DA	C1'-O4'-C4'	-6.56	103.54	110.10
1	AA	541	DG	C1'-O4'-C4'	-6.56	103.54	110.10
1	AA	5899	DG	C5-C6-O6	-6.56	124.67	128.60
14	AE	29	DA	P-O3'-C3'	6.56	127.57	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
33	AX	47	DG	O4'-C1'-N9	6.56	112.59	108.00
64	B8	6	DA	C4-C5-C6	6.56	120.28	117.00
1	AA	1094	DG	C5-C6-O6	-6.55	124.67	128.60
1	AA	2872	DG	C5-C6-O6	-6.55	124.67	128.60
1	AA	5006	DG	C5-C6-O6	-6.55	124.67	128.60
1	AA	5946	DC	N3-C4-N4	6.55	122.59	118.00
1	AA	6941	DG	C5-C6-O6	-6.55	124.67	128.60
10	A8	30	DG	C5-C6-O6	-6.55	124.67	128.60
16	AG	25	DC	O4'-C1'-N1	6.55	112.59	108.00
40	Ag	22	DC	C4'-C3'-C2'	-6.55	97.20	103.10
57	B1	45	DA	C4-C5-C6	6.55	120.28	117.00
74	BJ	40	DG	P-O3'-C3'	6.55	127.57	119.70
103	Bm	39	DA	P-O3'-C3'	6.55	127.56	119.70
115	C5	12	DA	C4-C5-C6	6.55	120.28	117.00
120	CC	29	DT	O4'-C4'-C3'	-6.55	101.88	104.50
141	CX	32	DC	N3-C4-N4	6.55	122.59	118.00
150	Ch	12	DC	O4'-C1'-N1	6.55	112.59	108.00
1	AA	4976	DG	C5-C6-O6	-6.55	124.67	128.60
1	AA	5547	DG	C5-C6-O6	-6.55	124.67	128.60
67	BC	18	DG	C1'-O4'-C4'	-6.55	103.55	110.10
137	CT	14	DC	N3-C4-N4	6.55	122.59	118.00
1	AA	205	DG	C5-C6-O6	-6.55	124.67	128.60
5	A3	22	DC	O4'-C4'-C3'	-6.55	101.88	104.50
7	A5	30	DA	C4-C5-C6	6.55	120.28	117.00
18	AI	40	DC	N3-C4-N4	6.55	122.59	118.00
39	Af	25	DG	C5-C6-O6	-6.55	124.67	128.60
56	B0	1	DG	C5-C6-O6	-6.55	124.67	128.60
83	BS	36	DA	C5-C6-N6	-6.55	118.46	123.70
129	CL	3	DC	O4'-C1'-N1	6.55	112.59	108.00
1	AA	1732	DA	C4-C5-C6	6.55	120.28	117.00
1	AA	1928	DA	C5-C6-N6	-6.55	118.46	123.70
1	AA	4879	DG	C5-C6-O6	-6.55	124.67	128.60
27	AR	58	DG	C5-C6-O6	-6.55	124.67	128.60
38	Ad	16	DA	C5-C6-N6	-6.55	118.46	123.70
76	BL	45	DG	O4'-C1'-N9	6.55	112.58	108.00
80	BP	14	DG	C5-C6-O6	-6.55	124.67	128.60
81	BQ	4	DG	C5-C6-O6	-6.55	124.67	128.60
82	BR	41	DG	C5-C6-O6	-6.55	124.67	128.60
138	CU	19	DA	P-O3'-C3'	6.55	127.56	119.70
162	Cz	5	DC	N3-C4-N4	6.55	122.58	118.00
1	AA	829	DG	C5-C6-O6	-6.55	124.67	128.60
1	AA	4174	DA	C4-C5-C6	6.55	120.27	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	AN	21	DA	P-O3'-C3'	6.55	127.56	119.70
126	CI	30	DA	C5-C6-N6	-6.55	118.46	123.70
1	AA	994	DG	C5-C6-O6	-6.55	124.67	128.60
1	AA	1181	DA	C5-C6-N6	-6.55	118.46	123.70
44	Ak	42	DA	O4'-C1'-N9	6.55	112.58	108.00
82	BR	42	DG	C5-C6-O6	-6.55	124.67	128.60
112	C2	16	DC	N3-C4-N4	6.55	122.58	118.00
161	Cy	12	DG	C5-C6-O6	-6.55	124.67	128.60
35	AZ	37	DA	C5-C6-N6	-6.54	118.46	123.70
143	CZ	48	DT	O4'-C1'-C2'	-6.54	100.66	105.90
1	AA	3993	DG	C5-C6-O6	-6.54	124.67	128.60
57	B1	29	DG	C5-C6-O6	-6.54	124.67	128.60
74	BJ	37	DG	C5-C6-O6	-6.54	124.67	128.60
97	Bg	5	DG	C5-C6-O6	-6.54	124.67	128.60
119	CB	49	DG	C5-C6-O6	-6.54	124.67	128.60
1	AA	1108	DG	C5-C6-O6	-6.54	124.67	128.60
1	AA	2261	DT	P-O3'-C3'	6.54	127.55	119.70
1	AA	2423	DG	C5-C6-O6	-6.54	124.67	128.60
1	AA	4227	DG	C5-C6-O6	-6.54	124.67	128.60
1	AA	4768	DG	C5-C6-O6	-6.54	124.67	128.60
1	AA	5538	DG	C5-C6-O6	-6.54	124.67	128.60
1	AA	6385	DG	C5-C6-O6	-6.54	124.67	128.60
3	A1	5	DC	P-O3'-C3'	6.54	127.55	119.70
61	B5	22	DC	N3-C4-N4	6.54	122.58	118.00
65	B9	40	DG	C5-C6-O6	-6.54	124.67	128.60
88	BX	26	DT	P-O3'-C3'	6.54	127.55	119.70
94	Bd	11	DG	C5-C6-O6	-6.54	124.67	128.60
94	Bd	44	DG	C5-C6-O6	-6.54	124.68	128.60
1	AA	2645	DA	C4-C5-C6	6.54	120.27	117.00
1	AA	3399	DG	O4'-C1'-C2'	-6.54	100.67	105.90
143	CZ	31	DG	C5-C6-O6	-6.54	124.68	128.60
1	AA	3285	DA	C4-C5-C6	6.54	120.27	117.00
1	AA	3298	DC	N3-C4-N4	6.54	122.58	118.00
1	AA	5251	DA	C5-C6-N6	-6.54	118.47	123.70
27	AR	32	DG	C5-C6-O6	-6.54	124.68	128.60
125	CH	6	DG	C5-C6-O6	-6.54	124.68	128.60
152	Cp	46	DA	C4-C5-C6	6.54	120.27	117.00
1	AA	6291	DA	C5-C6-N6	-6.54	118.47	123.70
1	AA	272	DC	O4'-C1'-C2'	-6.54	100.67	105.90
1	AA	1216	DG	C5-C6-O6	-6.54	124.68	128.60
1	AA	6572	DG	C5-C6-O6	-6.54	124.68	128.60
8	A6	16	DG	C5-C6-O6	-6.54	124.68	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
24	AO	45	DG	C5-C6-O6	-6.54	124.68	128.60
99	Bi	44	DG	C5-C6-O6	-6.54	124.68	128.60
153	Cq	36	DG	C5-C6-O6	-6.54	124.68	128.60
1	AA	866	DA	C5-C6-N6	-6.53	118.47	123.70
1	AA	938	DC	N3-C4-N4	6.53	122.57	118.00
1	AA	2047	DA	C4-C5-C6	6.53	120.27	117.00
1	AA	3033	DG	C5-C6-O6	-6.53	124.68	128.60
1	AA	3204	DG	C5-C6-O6	-6.53	124.68	128.60
1	AA	5537	DG	O4'-C1'-C2'	-6.53	100.67	105.90
4	A2	38	DA	C5-C6-N6	-6.53	118.47	123.70
30	AU	42	DG	C5-C6-O6	-6.53	124.68	128.60
105	Bo	30	DC	N3-C4-N4	6.53	122.57	118.00
142	CY	15	DA	O4'-C1'-N9	6.53	112.57	108.00
144	Cb	19	DA	O4'-C1'-N9	6.53	112.57	108.00
1	AA	4732	DG	C5-C6-O6	-6.53	124.68	128.60
1	AA	6012	DG	C5-C6-O6	-6.53	124.68	128.60
1	AA	6236	DG	C5-C6-O6	-6.53	124.68	128.60
56	B0	47	DG	C5-C6-O6	-6.53	124.68	128.60
1	AA	6074	DA	C5-C6-N6	-6.53	118.48	123.70
1	AA	6295	DC	O4'-C1'-N1	6.53	112.57	108.00
1	AA	6530	DA	C4-C5-C6	6.53	120.27	117.00
1	AA	7075	DC	O4'-C1'-N1	6.53	112.57	108.00
20	AK	41	DA	C4-C5-C6	6.53	120.27	117.00
37	Ac	52	DG	C5-C6-O6	-6.53	124.68	128.60
42	Ai	7	DA	O4'-C1'-N9	6.53	112.57	108.00
60	B4	31	DG	C5-C6-O6	-6.53	124.68	128.60
93	Bc	6	DG	C5-C6-O6	-6.53	124.68	128.60
114	C4	3	DT	P-O3'-C3'	6.53	127.54	119.70
1	AA	1660	DG	C5-C6-O6	-6.53	124.68	128.60
1	AA	2558	DT	P-O3'-C3'	6.53	127.53	119.70
7	A5	12	DA	P-O3'-C3'	6.53	127.53	119.70
10	A8	25	DA	C4-C5-C6	6.53	120.26	117.00
78	BN	37	DA	C4-C5-C6	6.53	120.26	117.00
111	C1	37	DA	C1'-O4'-C4'	-6.53	103.57	110.10
1	AA	6947	DG	C5-C6-O6	-6.53	124.68	128.60
19	AJ	9	DG	C5-C6-O6	-6.53	124.68	128.60
34	AY	12	DG	C5-C6-O6	-6.53	124.68	128.60
1	AA	541	DG	O4'-C1'-C2'	-6.53	100.68	105.90
1	AA	3582	DG	C5-C6-O6	-6.53	124.69	128.60
1	AA	5068	DA	C4-C5-C6	6.53	120.26	117.00
1	AA	5512	DG	C5-C6-O6	-6.53	124.69	128.60
1	AA	5809	DA	C4-C5-C6	6.53	120.26	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
36	Ab	44	DA	O4'-C1'-N9	6.53	112.57	108.00
75	BK	22	DA	C5-C6-N6	-6.53	118.48	123.70
88	BX	46	DA	C1'-O4'-C4'	-6.53	103.57	110.10
111	C1	7	DG	C5-C6-O6	-6.53	124.68	128.60
141	CX	1	DG	C5-C6-O6	-6.53	124.69	128.60
1	AA	5017	DA	C4-C5-C6	6.52	120.26	117.00
1	AA	5594	DT	P-O3'-C3'	6.52	127.53	119.70
1	AA	6077	DA	C5-C6-N6	-6.52	118.48	123.70
1	AA	428	DC	P-O3'-C3'	6.52	127.53	119.70
1	AA	3071	DC	N3-C4-N4	6.52	122.57	118.00
1	AA	3248	DG	C5-C6-O6	-6.52	124.69	128.60
89	BY	48	DT	O4'-C1'-N1	6.52	112.56	108.00
1	AA	2516	DG	C5-C6-O6	-6.52	124.69	128.60
1	AA	6721	DG	C5-C6-O6	-6.52	124.69	128.60
128	CK	22	DA	C5-C6-N6	-6.52	118.48	123.70
1	AA	5683	DC	O4'-C4'-C3'	-6.52	101.89	104.50
5	A3	33	DA	C5-C6-N6	-6.52	118.48	123.70
126	CI	35	DG	C5-C6-O6	-6.52	124.69	128.60
128	CK	35	DA	C4-C5-C6	6.52	120.26	117.00
162	Cz	30	DA	C4'-C3'-C2'	-6.52	97.23	103.10
1	AA	204	DG	C5-C6-O6	-6.52	124.69	128.60
1	AA	972	DG	C5-C6-O6	-6.52	124.69	128.60
1	AA	6190	DG	P-O3'-C3'	6.52	127.52	119.70
1	AA	6323	DA	C4-C5-C6	6.52	120.26	117.00
62	B6	18	DG	C5-C6-O6	-6.52	124.69	128.60
74	BJ	44	DG	C5-C6-O6	-6.52	124.69	128.60
106	Bp	32	DC	C1'-O4'-C4'	-6.52	103.58	110.10
128	CK	35	DA	C5-C6-N6	-6.52	118.49	123.70
129	CL	22	DA	C5-C6-N1	-6.52	114.44	117.70
131	CN	34	DG	C5-C6-O6	-6.52	124.69	128.60
144	Cb	10	DG	C5-C6-O6	-6.52	124.69	128.60
151	Ck	21	DT	P-O3'-C3'	6.52	127.52	119.70
1	AA	6964	DG	C5-C6-O6	-6.52	124.69	128.60
99	Bi	17	DG	C5-C6-O6	-6.52	124.69	128.60
120	CC	47	DC	N3-C4-N4	6.52	122.56	118.00
147	Ce	47	DA	P-O3'-C3'	6.52	127.52	119.70
1	AA	6291	DA	C4-C5-C6	6.51	120.26	117.00
83	BS	39	DG	C5-C6-O6	-6.51	124.69	128.60
130	CM	33	DG	C5-C6-O6	-6.51	124.69	128.60
1	AA	5980	DA	C4-C5-C6	6.51	120.26	117.00
39	Af	46	DA	C4-C5-C6	6.51	120.26	117.00
1	AA	2833	DC	N3-C4-N4	6.51	122.56	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	4779	DG	C1'-O4'-C4'	-6.51	103.59	110.10
1	AA	4978	DG	C5-C6-O6	-6.51	124.69	128.60
93	Bc	10	DG	C5-C6-O6	-6.51	124.69	128.60
130	CM	26	DA	C5-C6-N6	-6.51	118.49	123.70
130	CM	54	DC	O4'-C1'-C2'	-6.51	100.69	105.90
1	AA	2943	DA	C5-C6-N6	-6.51	118.49	123.70
1	AA	6079	DA	C4-C5-C6	6.51	120.25	117.00
31	AV	11	DC	O4'-C1'-C2'	-6.51	100.69	105.90
75	BK	23	DC	N3-C4-N4	6.51	122.56	118.00
1	AA	1957	DG	C5-C6-O6	-6.51	124.69	128.60
1	AA	7190	DC	O4'-C1'-C2'	-6.51	100.69	105.90
74	BJ	20	DT	P-O3'-C3'	6.51	127.51	119.70
1	AA	3345	DA	P-O3'-C3'	6.51	127.51	119.70
1	AA	4505	DC	O4'-C4'-C3'	-6.51	101.90	104.50
1	AA	5325	DA	C4-C5-C6	6.51	120.25	117.00
65	B9	1	DA	C4-C5-C6	6.51	120.25	117.00
65	B9	1	DA	O4'-C1'-N9	6.51	112.55	108.00
97	Bg	7	DG	C5-C6-O6	-6.51	124.70	128.60
19	AJ	29	DC	O4'-C1'-C2'	-6.50	100.70	105.90
22	AM	1	DA	C4-C5-C6	6.50	120.25	117.00
87	BW	18	DG	C5-C6-O6	-6.50	124.70	128.60
1	AA	29	DT	O4'-C1'-N1	6.50	112.55	108.00
1	AA	181	DA	P-O3'-C3'	6.50	127.50	119.70
1	AA	1515	DT	O4'-C1'-C2'	-6.50	100.70	105.90
1	AA	3557	DG	C5-C6-O6	-6.50	124.70	128.60
16	AG	45	DA	O4'-C1'-N9	6.50	112.55	108.00
107	Bq	22	DG	C5-C6-O6	-6.50	124.70	128.60
1	AA	816	DA	C5-C6-N6	-6.50	118.50	123.70
1	AA	6362	DG	C5-C6-O6	-6.50	124.70	128.60
2	A0	21	DA	C5-C6-N6	-6.50	118.50	123.70
44	Ak	29	DA	C4-C5-C6	6.50	120.25	117.00
4	A2	38	DA	O4'-C1'-N9	6.50	112.55	108.00
70	BF	37	DG	C5-C6-O6	-6.50	124.70	128.60
155	Cs	15	DG	C5-C6-O6	-6.50	124.70	128.60
1	AA	1029	DC	O4'-C1'-N1	6.50	112.55	108.00
1	AA	3297	DA	C5-C6-N6	-6.50	118.50	123.70
1	AA	4171	DG	C5-C6-O6	-6.50	124.70	128.60
7	A5	29	DA	C4-C5-C6	6.50	120.25	117.00
60	B4	6	DA	C4-C5-C6	6.50	120.25	117.00
119	CB	16	DA	C4-C5-C6	6.50	120.25	117.00
123	CF	12	DA	C5-C6-N6	-6.50	118.50	123.70
128	CK	15	DG	C5-C6-O6	-6.50	124.70	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3202	DA	C4-C5-C6	6.50	120.25	117.00
1	AA	5454	DA	C4-C5-C6	6.50	120.25	117.00
68	BD	25	DG	P-O3'-C3'	6.50	127.50	119.70
75	BK	10	DA	C5-C6-N6	-6.50	118.50	123.70
102	Bl	25	DG	C5-C6-O6	-6.50	124.70	128.60
4	A2	1	DA	O4'-C1'-N9	6.50	112.55	108.00
27	AR	43	DA	P-O3'-C3'	6.50	127.49	119.70
48	Ao	31	DC	N3-C4-N4	6.50	122.55	118.00
105	Bo	31	DG	C5-C6-O6	-6.50	124.70	128.60
155	Cs	47	DG	C5-C6-O6	-6.50	124.70	128.60
44	Ak	43	DC	O4'-C1'-N1	6.49	112.55	108.00
61	B5	24	DG	C5-C6-O6	-6.49	124.70	128.60
129	CL	32	DA	C5-C6-N6	-6.49	118.50	123.70
137	CT	32	DA	C5-C6-N6	-6.49	118.50	123.70
1	AA	2626	DG	C5-C6-O6	-6.49	124.70	128.60
1	AA	2886	DC	N3-C4-N4	6.49	122.54	118.00
1	AA	3730	DA	C4-C5-C6	6.49	120.25	117.00
1	AA	4879	DG	P-O3'-C3'	6.49	127.49	119.70
1	AA	5011	DA	C5-C6-N6	-6.49	118.51	123.70
48	Ao	32	DC	N3-C4-N4	6.49	122.55	118.00
158	Cv	14	DG	C5-C6-O6	-6.49	124.70	128.60
1	AA	1798	DC	N3-C4-N4	6.49	122.54	118.00
1	AA	4437	DG	C5-C6-O6	-6.49	124.71	128.60
38	Ad	44	DT	P-O3'-C3'	6.49	127.49	119.70
130	CM	35	DC	O4'-C1'-C2'	-6.49	100.71	105.90
134	CQ	15	DA	C4-C5-C6	6.49	120.25	117.00
1	AA	2632	DG	C5-C6-O6	-6.49	124.71	128.60
1	AA	3647	DG	O4'-C1'-C2'	-6.49	100.71	105.90
1	AA	4436	DG	C5-C6-O6	-6.49	124.71	128.60
28	AS	43	DG	C5-C6-O6	-6.49	124.71	128.60
43	Aj	17	DA	C5-C6-N6	-6.49	118.51	123.70
115	C5	4	DG	C5-C6-O6	-6.49	124.71	128.60
132	CO	46	DG	O4'-C4'-C3'	-6.49	101.91	104.50
1	AA	2721	DA	C5-C6-N6	-6.49	118.51	123.70
1	AA	5416	DA	C4'-C3'-C2'	-6.49	97.26	103.10
1	AA	5861	DG	C5-C6-O6	-6.49	124.71	128.60
1	AA	7040	DG	C5-C6-O6	-6.49	124.71	128.60
50	Au	4	DG	C5-C6-O6	-6.49	124.71	128.60
60	B4	42	DT	O4'-C4'-C3'	-6.49	101.91	104.50
75	BK	30	DA	C4-C5-C6	6.49	120.24	117.00
75	BK	39	DT	O4'-C1'-N1	6.49	112.54	108.00
1	AA	5816	DA	C4-C5-C6	6.49	120.24	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5972	DA	C5-C6-N6	-6.49	118.51	123.70
1	AA	6059	DA	C4-C5-C6	6.49	120.24	117.00
143	CZ	10	DG	C5-C6-O6	-6.49	124.71	128.60
1	AA	5813	DA	C4-C5-C6	6.48	120.24	117.00
2	A0	51	DA	C5-C6-N6	-6.48	118.51	123.70
26	AQ	36	DA	C5-C6-N1	-6.48	114.46	117.70
80	BP	19	DT	O4'-C1'-C2'	-6.48	100.71	105.90
152	Cp	34	DA	C5-C6-N6	-6.48	118.51	123.70
1	AA	1568	DA	C4-C5-C6	6.48	120.24	117.00
1	AA	2013	DG	C5-C6-O6	-6.48	124.71	128.60
1	AA	4917	DA	C4-C5-C6	6.48	120.24	117.00
25	AP	29	DG	C5-C6-O6	-6.48	124.71	128.60
94	Bd	44	DG	P-O3'-C3'	6.48	127.48	119.70
1	AA	4944	DG	C5-C6-O6	-6.48	124.71	128.60
1	AA	5428	DA	C5-C6-N6	-6.48	118.52	123.70
1	AA	6580	DG	C5-C6-O6	-6.48	124.71	128.60
8	A6	7	DG	C5-C6-O6	-6.48	124.71	128.60
26	AQ	29	DA	C4-C5-C6	6.48	120.24	117.00
1	AA	209	DG	C5-C6-O6	-6.48	124.71	128.60
1	AA	6233	DA	C4-C5-C6	6.48	120.24	117.00
106	Bp	39	DT	P-O3'-C3'	6.48	127.47	119.70
107	Bq	2	DG	C5-C6-O6	-6.48	124.72	128.60
1	AA	785	DA	C5-C6-N6	-6.47	118.52	123.70
1	AA	2831	DG	C5-C6-O6	-6.47	124.72	128.60
7	A5	40	DC	N3-C4-N4	6.47	122.53	118.00
91	Ba	18	DC	P-O3'-C3'	6.47	127.47	119.70
1	AA	548	DA	C5-C6-N6	-6.47	118.52	123.70
1	AA	1903	DG	C5-C6-O6	-6.47	124.72	128.60
86	BV	38	DT	O4'-C1'-N1	6.47	112.53	108.00
1	AA	1584	DA	C5-C6-N6	-6.47	118.52	123.70
1	AA	2186	DG	P-O3'-C3'	6.47	127.47	119.70
1	AA	2613	DG	C5-C6-O6	-6.47	124.72	128.60
1	AA	5707	DC	N3-C4-N4	6.47	122.53	118.00
28	AS	34	DA	C4-C5-C6	6.47	120.23	117.00
113	C3	36	DA	P-O3'-C3'	6.47	127.47	119.70
160	Cx	31	DA	C4-C5-C6	6.47	120.23	117.00
1	AA	1940	DG	C5-C6-O6	-6.47	124.72	128.60
1	AA	4914	DG	C5-C6-O6	-6.47	124.72	128.60
19	AJ	29	DC	N3-C4-N4	6.47	122.53	118.00
31	AV	11	DC	P-O3'-C3'	6.47	127.46	119.70
38	Ad	20	DA	C5-C6-N6	-6.47	118.53	123.70
45	Al	36	DC	N3-C4-N4	6.47	122.53	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
54	Ay	35	DC	O4'-C1'-C2'	-6.47	100.72	105.90
106	Bp	7	DA	C4-C5-C6	6.47	120.23	117.00
109	Bs	42	DG	C5-C6-O6	-6.47	124.72	128.60
1	AA	1490	DC	N3-C4-N4	6.47	122.53	118.00
1	AA	2759	DA	O4'-C1'-C2'	-6.47	100.72	105.90
104	Bn	15	DG	C5-C6-O6	-6.47	124.72	128.60
150	Ch	17	DC	O4'-C1'-N1	6.47	112.53	108.00
150	Ch	26	DC	N3-C4-N4	6.47	122.53	118.00
1	AA	1384	DA	C5-C6-N6	-6.47	118.53	123.70
1	AA	2409	DG	C5-C6-O6	-6.47	124.72	128.60
1	AA	3039	DA	C5-C6-N6	-6.47	118.53	123.70
1	AA	3418	DA	C5-C6-N6	-6.47	118.53	123.70
1	AA	7019	DG	C5-C6-O6	-6.47	124.72	128.60
26	AQ	48	DC	O4'-C1'-N1	6.47	112.53	108.00
64	B8	6	DA	C1'-O4'-C4'	-6.47	103.63	110.10
1	AA	455	DG	C5-C6-O6	-6.46	124.72	128.60
1	AA	1331	DG	O4'-C4'-C3'	-6.46	101.91	104.50
43	Aj	33	DA	C5-C6-N6	-6.46	118.53	123.70
74	BJ	22	DG	C5-C6-O6	-6.46	124.72	128.60
78	BN	23	DC	N3-C4-N4	6.46	122.53	118.00
135	CR	26	DT	O4'-C4'-C3'	-6.46	101.91	104.50
1	AA	156	DC	O4'-C1'-C2'	-6.46	100.73	105.90
1	AA	3213	DG	C5-C6-O6	-6.46	124.72	128.60
1	AA	5507	DA	C4-C5-C6	6.46	120.23	117.00
129	CL	8	DT	P-O3'-C3'	6.46	127.45	119.70
1	AA	1995	DA	C4-C5-C6	6.46	120.23	117.00
1	AA	2500	DC	N3-C4-N4	6.46	122.52	118.00
1	AA	5632	DA	C4-C5-C6	6.46	120.23	117.00
1	AA	5756	DA	C4-C5-C6	6.46	120.23	117.00
82	BR	14	DT	P-O3'-C3'	-6.46	111.94	119.70
126	CI	7	DC	O4'-C4'-C3'	-6.46	101.92	104.50
1	AA	2665	DA	C4-C5-C6	6.46	120.23	117.00
3	A1	44	DG	C5-C6-O6	-6.46	124.72	128.60
37	Ac	33	DA	O4'-C1'-N9	6.46	112.52	108.00
67	BC	10	DA	C4-C5-C6	6.46	120.23	117.00
100	Bj	2	DG	C5-C6-O6	-6.46	124.72	128.60
126	CI	30	DA	O4'-C1'-C2'	-6.46	100.73	105.90
132	CO	19	DC	N3-C4-N4	6.46	122.52	118.00
152	Cp	47	DA	C4-C5-C6	6.46	120.23	117.00
1	AA	1866	DA	C4-C5-C6	6.46	120.23	117.00
1	AA	2091	DT	P-O3'-C3'	6.46	127.45	119.70
1	AA	2918	DA	C5-C6-N6	-6.46	118.53	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3933	DA	C4-C5-C6	6.46	120.23	117.00
1	AA	5434	DA	C4-C5-C6	6.46	120.23	117.00
1	AA	6221	DT	O4'-C4'-C3'	-6.46	101.92	104.50
46	Am	22	DG	C5-C6-O6	-6.46	124.72	128.60
122	CE	10	DA	C5-C6-N6	-6.46	118.53	123.70
1	AA	2805	DG	C5-C6-O6	-6.46	124.73	128.60
1	AA	6045	DA	C4-C5-C6	6.46	120.23	117.00
1	AA	7215	DA	O4'-C1'-C2'	-6.46	100.73	105.90
18	AI	33	DA	C5-C6-N6	-6.46	118.53	123.70
20	AK	59	DA	C5-C6-N6	-6.46	118.53	123.70
127	CJ	57	DA	C4-C5-C6	6.46	120.23	117.00
152	Cp	5	DA	C4-C5-C6	6.46	120.23	117.00
22	AM	2	DA	C4-C5-C6	6.46	120.23	117.00
1	AA	3817	DG	O4'-C4'-C3'	-6.45	101.92	104.50
1	AA	6120	DT	O4'-C1'-N1	6.45	112.52	108.00
17	AH	28	DG	C5-C6-O6	-6.45	124.73	128.60
96	Bf	12	DG	C5-C6-O6	-6.45	124.73	128.60
123	CF	26	DG	C5-C6-O6	-6.45	124.73	128.60
5	A3	31	DG	O4'-C1'-N9	6.45	112.52	108.00
1	AA	3367	DG	C5-C6-O6	-6.45	124.73	128.60
1	AA	3487	DC	N3-C4-N4	6.45	122.52	118.00
1	AA	5697	DG	C5-C6-O6	-6.45	124.73	128.60
1	AA	5869	DG	C5-C6-O6	-6.45	124.73	128.60
4	A2	11	DG	O4'-C1'-N9	6.45	112.52	108.00
7	A5	38	DC	N3-C4-N4	6.45	122.52	118.00
49	As	42	DG	C5-C6-O6	-6.45	124.73	128.60
84	BT	43	DG	C5-C6-O6	-6.45	124.73	128.60
1	AA	331	DA	C4-C5-C6	6.45	120.22	117.00
1	AA	2740	DC	N3-C4-N4	6.45	122.51	118.00
1	AA	3028	DA	C5-C6-N6	-6.45	118.54	123.70
1	AA	4225	DG	O4'-C1'-C2'	-6.45	100.74	105.90
1	AA	5734	DA	C5-C6-N6	-6.45	118.54	123.70
1	AA	6062	DA	C4-C5-C6	6.45	120.22	117.00
36	Ab	34	DC	N3-C4-N4	6.45	122.52	118.00
102	Bl	24	DG	C5-C6-O6	-6.45	124.73	128.60
132	CO	42	DA	C5-C6-N6	-6.45	118.54	123.70
1	AA	1925	DA	C4-C5-C6	6.45	120.22	117.00
1	AA	3811	DG	C5-C6-O6	-6.45	124.73	128.60
1	AA	5143	DA	C5-C6-N1	-6.45	114.48	117.70
1	AA	6338	DG	P-O3'-C3'	6.45	127.44	119.70
1	AA	283	DC	C6-N1-C1'	-6.45	113.07	120.80
1	AA	2512	DG	C5-C6-O6	-6.45	124.73	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3241	DA	C4-C5-C6	6.45	120.22	117.00
1	AA	6575	DA	C5-C6-N6	-6.45	118.54	123.70
1	AA	6966	DA	C4-C5-C6	6.45	120.22	117.00
5	A3	9	DA	C5-C6-N6	-6.45	118.54	123.70
41	Ah	38	DA	C4-C5-C6	6.45	120.22	117.00
94	Bd	25	DG	C5-C6-O6	-6.45	124.73	128.60
1	AA	3191	DT	P-O3'-C3'	6.44	127.43	119.70
121	CD	20	DA	C5-C6-N6	-6.44	118.55	123.70
1	AA	2375	DT	O4'-C1'-N1	6.44	112.51	108.00
20	AK	1	DA	O4'-C4'-C3'	-6.44	101.92	104.50
62	B6	13	DT	O4'-C1'-N1	6.44	112.51	108.00
94	Bd	21	DA	C4-C5-C6	6.44	120.22	117.00
107	Bq	49	DT	O4'-C1'-N1	6.44	112.51	108.00
1	AA	64	DC	N3-C4-N4	6.44	122.51	118.00
1	AA	642	DG	C5-C6-O6	-6.44	124.74	128.60
1	AA	1252	DG	C5-C6-O6	-6.44	124.74	128.60
3	A1	40	DA	P-O3'-C3'	6.44	127.43	119.70
85	BU	45	DG	P-O3'-C3'	-6.44	111.97	119.70
152	Cp	34	DA	C4-C5-C6	6.44	120.22	117.00
1	AA	2747	DC	N3-C4-N4	6.44	122.51	118.00
1	AA	3174	DA	C4-C5-C6	6.44	120.22	117.00
1	AA	3423	DG	C5-C6-O6	-6.44	124.74	128.60
1	AA	5737	DA	C4-C5-C6	6.44	120.22	117.00
143	CZ	28	DA	P-O3'-C3'	6.44	127.43	119.70
152	Cp	19	DG	C5-C6-O6	-6.44	124.74	128.60
1	AA	6669	DT	P-O5'-C5'	-6.44	110.60	120.90
15	AF	33	DT	O4'-C1'-C2'	-6.44	100.75	105.90
17	AH	2	DC	N3-C4-N4	6.44	122.51	118.00
27	AR	59	DG	C5-C6-O6	-6.44	124.74	128.60
65	B9	27	DG	C5-C6-O6	-6.44	124.74	128.60
76	BL	41	DC	N3-C4-N4	6.44	122.50	118.00
110	C0	38	DA	P-O3'-C3'	6.44	127.42	119.70
1	AA	179	DG	C5-C6-O6	-6.43	124.74	128.60
1	AA	1788	DA	C4-C5-C6	6.43	120.22	117.00
1	AA	6857	DG	C5-C6-O6	-6.43	124.74	128.60
1	AA	7082	DG	C5-C6-O6	-6.43	124.74	128.60
44	Ak	9	DC	N3-C4-N4	6.43	122.50	118.00
76	BL	44	DA	P-O3'-C3'	6.43	127.42	119.70
145	Cc	19	DA	C4-C5-C6	6.43	120.22	117.00
1	AA	1117	DA	O4'-C1'-C2'	-6.43	100.75	105.90
1	AA	1383	DA	C5-C6-N6	-6.43	118.56	123.70
1	AA	1480	DA	C5-C6-N1	-6.43	114.48	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
46	Am	43	DG	C5-C6-O6	-6.43	124.74	128.60
68	BD	33	DA	C4-C5-C6	6.43	120.22	117.00
89	BY	18	DA	C4-C5-C6	6.43	120.22	117.00
151	Ck	30	DT	O4'-C1'-C2'	-6.43	100.75	105.90
1	AA	1000	DA	C4-C5-C6	6.43	120.22	117.00
1	AA	3241	DA	C5-C6-N6	-6.43	118.56	123.70
1	AA	4003	DG	O4'-C1'-C2'	-6.43	100.76	105.90
1	AA	4342	DA	C4-C5-C6	6.43	120.22	117.00
1	AA	5526	DC	O4'-C1'-N1	6.43	112.50	108.00
46	Am	17	DA	C5-C6-N6	-6.43	118.56	123.70
102	Bl	35	DA	C5-C6-N6	-6.43	118.56	123.70
1	AA	4164	DA	P-O3'-C3'	6.43	127.41	119.70
1	AA	2592	DG	P-O3'-C3'	6.43	127.41	119.70
8	A6	32	DC	O4'-C4'-C3'	-6.43	101.93	104.50
40	Ag	13	DG	C5-C6-O6	-6.43	124.74	128.60
122	CE	14	DA	C4-C5-C6	6.43	120.21	117.00
1	AA	607	DA	C1'-O4'-C4'	-6.42	103.67	110.10
18	AI	3	DA	C5-C6-N6	-6.42	118.56	123.70
76	BL	6	DA	C4-C5-C6	6.42	120.21	117.00
127	CJ	33	DA	C5-C6-N1	-6.42	114.49	117.70
147	Ce	50	DC	P-O5'-C5'	-6.42	110.62	120.90
9	A7	40	DA	C5-C6-N6	-6.42	118.56	123.70
49	As	26	DA	C4'-C3'-C2'	-6.42	97.32	103.10
1	AA	3427	DA	P-O3'-C3'	6.42	127.41	119.70
87	BW	21	DA	C4-C5-C6	6.42	120.21	117.00
114	C4	23	DG	C5-C6-O6	-6.42	124.75	128.60
1	AA	511	DA	C4-C5-C6	6.42	120.21	117.00
1	AA	1481	DA	C4-C5-C6	6.42	120.21	117.00
33	AX	12	DA	C5-C6-N6	-6.42	118.56	123.70
1	AA	1006	DC	O4'-C1'-C2'	-6.42	100.77	105.90
1	AA	2372	DA	C4-C5-C6	6.42	120.21	117.00
1	AA	4290	DG	C5-C6-O6	-6.42	124.75	128.60
1	AA	5199	DA	C4-C5-C6	6.42	120.21	117.00
1	AA	1591	DA	C4-C5-C6	6.42	120.21	117.00
1	AA	5484	DA	C5-C6-N6	-6.42	118.57	123.70
4	A2	34	DA	C5-C6-N6	-6.42	118.57	123.70
44	Ak	44	DG	O4'-C1'-N9	6.42	112.49	108.00
71	BG	19	DG	C5-C6-O6	-6.42	124.75	128.60
148	Cf	22	DA	C5-C6-N6	-6.42	118.57	123.70
77	BM	41	DA	C5-C6-N6	-6.42	118.57	123.70
159	Cw	17	DC	N3-C4-N4	6.42	122.49	118.00
52	Aw	18	DA	C4-C5-C6	6.41	120.21	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
96	Bf	35	DG	C5-C6-O6	-6.41	124.75	128.60
137	CT	34	DG	C5-C6-O6	-6.41	124.75	128.60
1	AA	6725	DG	C5-C6-O6	-6.41	124.75	128.60
48	Ao	26	DG	C5-C6-O6	-6.41	124.75	128.60
134	CQ	32	DA	C4-C5-C6	6.41	120.21	117.00
1	AA	1028	DA	C5-C6-N6	-6.41	118.57	123.70
1	AA	1540	DG	C5-C6-O6	-6.41	124.75	128.60
1	AA	2541	DA	O4'-C1'-N9	6.41	112.49	108.00
1	AA	3698	DA	C4-C5-C6	6.41	120.20	117.00
1	AA	5587	DA	C4-C5-C6	6.41	120.20	117.00
18	AI	41	DA	O4'-C1'-N9	6.41	112.49	108.00
108	Br	10	DG	C5-C6-O6	-6.41	124.75	128.60
1	AA	852	DA	C4-C5-C6	6.41	120.20	117.00
1	AA	1430	DG	C5-C6-O6	-6.41	124.75	128.60
1	AA	2325	DG	C5-C6-O6	-6.41	124.75	128.60
1	AA	5977	DG	O4'-C1'-N9	6.41	112.49	108.00
71	BG	18	DA	C5-C6-N6	-6.41	118.57	123.70
81	BQ	18	DG	C5-C6-O6	-6.41	124.75	128.60
1	AA	848	DA	C5-C6-N6	-6.41	118.58	123.70
1	AA	6968	DG	C5-C6-O6	-6.41	124.76	128.60
1	AA	36	DC	O4'-C1'-N1	6.41	112.48	108.00
1	AA	3351	DG	C5-C6-O6	-6.41	124.76	128.60
1	AA	3391	DC	N3-C4-N4	6.41	122.48	118.00
1	AA	4310	DC	O4'-C1'-C2'	-6.41	100.78	105.90
1	AA	5152	DG	C5-C6-O6	-6.41	124.76	128.60
1	AA	5350	DA	C4-C5-C6	6.41	120.20	117.00
1	AA	5558	DG	C1'-O4'-C4'	-6.41	103.69	110.10
8	A6	42	DG	C5-C6-O6	-6.41	124.76	128.60
29	AT	20	DC	O4'-C1'-N1	6.41	112.48	108.00
96	Bf	36	DA	P-O3'-C3'	6.41	127.39	119.70
100	Bj	1	DA	C4-C5-C6	6.41	120.20	117.00
113	C3	18	DA	C4-C5-C6	6.41	120.20	117.00
133	CP	17	DG	C5-C6-O6	-6.41	124.76	128.60
1	AA	793	DC	N3-C4-N4	6.40	122.48	118.00
1	AA	2373	DA	C5-C6-N1	-6.40	114.50	117.70
1	AA	2388	DG	C5-C6-O6	-6.40	124.76	128.60
1	AA	2978	DA	C4-C5-C6	6.40	120.20	117.00
10	A8	47	DG	C5-C6-O6	-6.40	124.76	128.60
94	Bd	6	DA	C5-C6-N6	-6.40	118.58	123.70
101	Bk	6	DA	C1'-O4'-C4'	-6.40	103.70	110.10
1	AA	2797	DG	C5-C6-O6	-6.40	124.76	128.60
1	AA	4384	DG	C5-C6-O6	-6.40	124.76	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
24	AO	10	DG	P-O3'-C3'	6.40	127.38	119.70
62	B6	19	DG	C5-C6-O6	-6.40	124.76	128.60
145	Cc	27	DA	C5-C6-N6	-6.40	118.58	123.70
1	AA	1426	DT	C1'-O4'-C4'	-6.40	103.70	110.10
1	AA	3443	DC	O4'-C4'-C3'	-6.40	101.94	104.50
1	AA	3674	DG	P-O3'-C3'	6.40	127.38	119.70
1	AA	4269	DA	C5-C6-N6	-6.40	118.58	123.70
1	AA	5039	DG	C5-C6-O6	-6.40	124.76	128.60
1	AA	5454	DA	C5-C6-N6	-6.40	118.58	123.70
1	AA	6508	DC	O4'-C1'-C2'	-6.40	100.78	105.90
152	Cp	22	DA	C4-C5-C6	6.40	120.20	117.00
160	Cx	36	DG	C5-C6-O6	-6.40	124.76	128.60
1	AA	3170	DA	C5-C6-N6	-6.40	118.58	123.70
1	AA	4388	DA	C4-C5-C6	6.40	120.20	117.00
21	AL	21	DA	C4-C5-C6	6.40	120.20	117.00
80	BP	13	DG	C5-C6-O6	-6.40	124.76	128.60
1	AA	3403	DG	C5-C6-O6	-6.40	124.76	128.60
1	AA	6397	DC	N3-C4-N4	6.40	122.48	118.00
22	AM	15	DC	N3-C4-N4	6.40	122.48	118.00
57	B1	52	DA	C5-C6-N6	-6.40	118.58	123.70
1	AA	1354	DG	C5-C6-O6	-6.40	124.76	128.60
1	AA	3979	DA	C1'-O4'-C4'	-6.40	103.70	110.10
1	AA	5508	DT	O4'-C1'-N1	6.40	112.48	108.00
20	AK	35	DA	O4'-C1'-N9	6.40	112.48	108.00
144	Cb	33	DC	N3-C4-N4	6.40	122.48	118.00
1	AA	1667	DG	C5-C6-O6	-6.39	124.76	128.60
1	AA	3931	DA	C5-C6-N6	-6.39	118.58	123.70
1	AA	5063	DA	C4-C5-C6	6.39	120.20	117.00
3	A1	43	DA	C5-C6-N6	-6.39	118.58	123.70
5	A3	6	DA	C5-C6-N6	-6.39	118.58	123.70
39	Af	33	DG	C5-C6-O6	-6.39	124.76	128.60
96	Bf	42	DA	C4-C5-C6	6.39	120.20	117.00
1	AA	2177	DA	C4-C5-C6	6.39	120.20	117.00
1	AA	2737	DA	C5-C6-N6	-6.39	118.59	123.70
1	AA	5068	DA	C5-C6-N6	-6.39	118.59	123.70
51	Av	14	DA	C4-C5-C6	6.39	120.20	117.00
75	BK	30	DA	C5-C6-N6	-6.39	118.59	123.70
90	BZ	56	DA	C5-C6-N6	-6.39	118.59	123.70
161	Cy	7	DG	C5-C6-O6	-6.39	124.77	128.60
1	AA	4151	DA	C5-C6-N6	-6.39	118.59	123.70
1	AA	6414	DA	C4-C5-C6	6.39	120.19	117.00
12	AC	20	DG	C5-C6-O6	-6.39	124.77	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
101	Bk	67	DT	O4'-C1'-C2'	-6.39	100.79	105.90
1	AA	328	DG	C5-C6-O6	-6.39	124.77	128.60
1	AA	648	DG	C5-C6-O6	-6.39	124.77	128.60
1	AA	1394	DC	N3-C4-N4	6.39	122.47	118.00
1	AA	2990	DA	C5-C6-N6	-6.39	118.59	123.70
1	AA	4505	DC	O4'-C1'-C2'	-6.39	100.79	105.90
1	AA	5721	DA	C5-C6-N6	-6.39	118.59	123.70
2	A0	46	DA	C5-C6-N6	-6.39	118.59	123.70
26	AQ	30	DT	O4'-C4'-C3'	-6.39	101.94	104.50
44	Ak	36	DG	C5-C6-O6	-6.39	124.77	128.60
49	As	25	DA	C4-C5-C6	6.39	120.19	117.00
116	C6	33	DA	C5-C6-N1	-6.39	114.50	117.70
133	CP	10	DA	C4-C5-C6	6.39	120.19	117.00
154	Cr	41	DC	N3-C4-N4	6.39	122.47	118.00
161	Cy	53	DC	N3-C4-N4	6.39	122.47	118.00
1	AA	1048	DA	C4-C5-C6	6.39	120.19	117.00
1	AA	3327	DG	C5-C6-O6	-6.39	124.77	128.60
35	AZ	47	DT	P-O5'-C5'	-6.39	110.68	120.90
160	Cx	41	DA	C5-C6-N1	-6.39	114.51	117.70
1	AA	4689	DA	C4-C5-C6	6.39	120.19	117.00
82	BR	33	DA	C4-C5-C6	6.39	120.19	117.00
137	CT	25	DA	C4-C5-C6	6.39	120.19	117.00
1	AA	54	DA	C5-C6-N6	-6.38	118.59	123.70
1	AA	227	DG	O4'-C1'-C2'	-6.38	100.79	105.90
1	AA	1035	DA	C5-C6-N1	-6.38	114.51	117.70
1	AA	5347	DA	C1'-O4'-C4'	-6.38	103.72	110.10
1	AA	6427	DA	C5-C6-N1	-6.38	114.51	117.70
1	AA	6838	DG	C5-C6-O6	-6.38	124.77	128.60
62	B6	24	DA	C5-C6-N6	-6.38	118.59	123.70
113	C3	21	DG	P-O3'-C3'	6.38	127.36	119.70
142	CY	4	DA	C5-C6-N6	-6.38	118.59	123.70
1	AA	5143	DA	P-O3'-C3'	6.38	127.36	119.70
32	AW	23	DG	P-O3'-C3'	6.38	127.36	119.70
1	AA	3082	DA	C5-C6-N6	-6.38	118.59	123.70
1	AA	6089	DC	O4'-C4'-C3'	-6.38	101.95	104.50
70	BF	14	DA	C4-C5-C6	6.38	120.19	117.00
110	C0	39	DA	C5-C6-N6	-6.38	118.59	123.70
123	CF	7	DC	N3-C4-N4	6.38	122.47	118.00
161	Cy	58	DA	C4-C5-C6	6.38	120.19	117.00
162	Cz	48	DA	O4'-C1'-N9	6.38	112.47	108.00
1	AA	2387	DA	C4-C5-C6	6.38	120.19	117.00
72	BH	2	DA	C5-C6-N6	-6.38	118.60	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
120	CC	5	DG	C5-C6-O6	-6.38	124.77	128.60
125	CH	26	DA	C4-C5-C6	6.38	120.19	117.00
1	AA	1136	DG	O4'-C1'-N9	6.38	112.46	108.00
1	AA	2920	DC	N3-C4-N4	6.38	122.47	118.00
62	B6	1	DG	C5-C6-O6	-6.38	124.77	128.60
115	C5	18	DG	C5-C6-O6	-6.38	124.77	128.60
121	CD	5	DG	C5-C6-O6	-6.38	124.77	128.60
1	AA	35	DC	OP1-P-O3'	6.38	119.23	105.20
1	AA	4583	DG	C5-C6-O6	-6.38	124.77	128.60
1	AA	6504	DA	C4-C5-C6	6.38	120.19	117.00
40	Ag	12	DA	P-O3'-C3'	6.38	127.35	119.70
40	Ag	12	DA	C5-C6-N6	-6.38	118.60	123.70
63	B7	26	DA	C5-C6-N6	-6.38	118.60	123.70
75	BK	25	DC	N3-C4-N4	6.38	122.46	118.00
1	AA	2464	DA	C4-C5-C6	6.38	120.19	117.00
1	AA	3541	DA	C5-C6-N1	-6.38	114.51	117.70
39	Af	34	DA	C4-C5-C6	6.38	120.19	117.00
63	B7	5	DG	P-O3'-C3'	6.38	127.35	119.70
159	Cw	25	DG	C5-C6-O6	-6.38	124.78	128.60
1	AA	369	DA	C1'-O4'-C4'	-6.37	103.73	110.10
1	AA	1894	DA	C5-C6-N6	-6.37	118.60	123.70
43	Aj	59	DA	C4-C5-C6	6.37	120.19	117.00
92	Bb	58	DG	C5-C6-O6	-6.37	124.78	128.60
1	AA	4407	DT	C1'-O4'-C4'	-6.37	103.73	110.10
1	AA	6146	DA	C4-C5-C6	6.37	120.19	117.00
2	A0	12	DT	O4'-C1'-C2'	-6.37	100.80	105.90
19	AJ	15	DA	C4-C5-C6	6.37	120.19	117.00
30	AU	2	DA	C1'-O4'-C4'	-6.37	103.73	110.10
43	Aj	44	DA	C5-C6-N6	-6.37	118.60	123.70
43	Aj	45	DA	C5-C6-N6	-6.37	118.60	123.70
117	C7	15	DA	C5-C6-N6	-6.37	118.60	123.70
1	AA	607	DA	C4-C5-C6	6.37	120.19	117.00
1	AA	2527	DC	N3-C4-N4	6.37	122.46	118.00
1	AA	2841	DC	O4'-C4'-C3'	-6.37	101.95	104.50
1	AA	5203	DC	N3-C4-N4	6.37	122.46	118.00
1	AA	6003	DT	O4'-C1'-N1	6.37	112.46	108.00
27	AR	6	DA	C4-C5-C6	6.37	120.19	117.00
65	B9	10	DT	O4'-C4'-C3'	-6.37	101.95	104.50
1	AA	1868	DA	C5-C6-N6	-6.37	118.61	123.70
1	AA	3587	DA	C4-C5-C6	6.37	120.18	117.00
1	AA	4679	DA	C4-C5-C6	6.37	120.18	117.00
1	AA	6351	DG	C5-C6-O6	-6.37	124.78	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6696	DG	O4'-C1'-N9	6.37	112.46	108.00
7	A5	38	DC	C4'-C3'-C2'	-6.37	97.37	103.10
38	Ad	7	DA	C5-C6-N6	-6.37	118.60	123.70
71	BG	44	DC	O4'-C1'-C2'	-6.37	100.81	105.90
162	Cz	30	DA	C4-C5-C6	6.37	120.18	117.00
1	AA	887	DG	C5-C6-O6	-6.37	124.78	128.60
13	AD	39	DA	P-O3'-C3'	6.37	127.34	119.70
81	BQ	6	DA	O4'-C1'-C2'	-6.37	100.81	105.90
1	AA	2923	DC	N3-C4-N4	6.37	122.46	118.00
1	AA	5593	DC	N3-C4-N4	6.37	122.46	118.00
22	AM	43	DC	O4'-C1'-N1	6.37	112.45	108.00
25	AP	2	DG	O4'-C1'-N9	6.37	112.45	108.00
71	BG	2	DA	C5-C6-N6	-6.37	118.61	123.70
122	CE	11	DA	C4-C5-C6	6.37	120.18	117.00
1	AA	1420	DA	P-O3'-C3'	6.36	127.34	119.70
1	AA	2059	DC	O4'-C4'-C3'	-6.36	101.95	104.50
1	AA	2701	DA	C5-C6-N6	-6.36	118.61	123.70
1	AA	2724	DA	C4-C5-C6	6.36	120.18	117.00
1	AA	2987	DG	C5-C6-O6	-6.36	124.78	128.60
9	A7	27	DC	O4'-C1'-N1	6.36	112.45	108.00
37	Ac	13	DA	C4-C5-C6	6.36	120.18	117.00
45	Al	18	DA	C4'-C3'-C2'	-6.36	97.37	103.10
45	Al	20	DA	C4-C5-C6	6.36	120.18	117.00
50	Au	6	DT	O4'-C1'-C2'	-6.36	100.81	105.90
71	BG	1	DA	C4-C5-C6	6.36	120.18	117.00
1	AA	6677	DA	P-O3'-C3'	6.36	127.33	119.70
1	AA	2533	DG	C5-C6-O6	-6.36	124.78	128.60
1	AA	3740	DA	C4-C5-C6	6.36	120.18	117.00
1	AA	5732	DA	C5-C6-N6	-6.36	118.61	123.70
34	AY	17	DA	C5-C6-N6	-6.36	118.61	123.70
121	CD	20	DA	C4-C5-C6	6.36	120.18	117.00
144	Cb	7	DA	C4-C5-C6	6.36	120.18	117.00
1	AA	647	DC	C1'-O4'-C4'	-6.36	103.74	110.10
1	AA	948	DG	C5-C6-O6	-6.36	124.78	128.60
76	BL	34	DC	N3-C4-N4	6.36	122.45	118.00
107	Bq	56	DC	C4'-C3'-C2'	-6.36	97.38	103.10
115	C5	42	DA	C5-C6-N1	-6.36	114.52	117.70
127	CJ	1	DC	N3-C4-N4	6.36	122.45	118.00
1	AA	3136	DA	C5-C6-N6	-6.36	118.61	123.70
1	AA	4069	DG	C5-C6-O6	-6.36	124.78	128.60
1	AA	6663	DG	O4'-C1'-N9	6.36	112.45	108.00
31	AV	24	DT	P-O3'-C3'	6.36	127.33	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
112	C2	19	DA	C4-C5-C6	6.36	120.18	117.00
124	CG	4	DG	C5-C6-O6	-6.36	124.79	128.60
157	Cu	30	DT	O4'-C1'-C2'	-6.36	100.81	105.90
1	AA	888	DA	P-O3'-C3'	6.36	127.33	119.70
1	AA	2506	DA	C5-C6-N1	-6.36	114.52	117.70
1	AA	6700	DG	P-O3'-C3'	6.36	127.33	119.70
16	AG	3	DG	C5-C6-O6	-6.36	124.79	128.60
55	Az	40	DG	C5-C6-O6	-6.36	124.79	128.60
75	BK	9	DA	C5-C6-N6	-6.36	118.62	123.70
78	BN	51	DG	C5-C6-O6	-6.36	124.79	128.60
140	CW	38	DG	C5-C6-O6	-6.36	124.79	128.60
146	Cd	30	DA	C4-C5-C6	6.36	120.18	117.00
1	AA	340	DG	C5-C6-O6	-6.35	124.79	128.60
1	AA	1670	DA	C4-C5-C6	6.35	120.18	117.00
28	AS	12	DA	O4'-C1'-N9	6.35	112.45	108.00
119	CB	38	DA	C5-C6-N1	-6.35	114.52	117.70
1	AA	1532	DG	C5-C6-O6	-6.35	124.79	128.60
1	AA	2027	DA	C4-C5-C6	6.35	120.18	117.00
1	AA	3060	DC	N3-C4-N4	6.35	122.45	118.00
25	AP	1	DA	O4'-C1'-N9	6.35	112.45	108.00
52	Aw	14	DA	C4-C5-C6	6.35	120.18	117.00
141	CX	26	DC	N3-C4-N4	6.35	122.45	118.00
141	CX	35	DA	C5-C6-N6	-6.35	118.62	123.70
155	Cs	20	DA	C5-C6-N6	-6.35	118.62	123.70
1	AA	757	DG	C1'-O4'-C4'	-6.35	103.75	110.10
1	AA	3253	DG	C5-C6-O6	-6.35	124.79	128.60
1	AA	5713	DC	N3-C4-N4	6.35	122.45	118.00
1	AA	6244	DC	N3-C4-N4	6.35	122.45	118.00
3	A1	43	DA	C4-C5-C6	6.35	120.17	117.00
44	Ak	40	DA	P-O3'-C3'	6.35	127.32	119.70
1	AA	2083	DA	C5-C6-N6	-6.35	118.62	123.70
1	AA	5875	DG	O4'-C1'-C2'	-6.35	100.82	105.90
141	CX	35	DA	C4-C5-C6	6.35	120.17	117.00
1	AA	316	DT	O4'-C1'-C2'	-6.35	100.82	105.90
1	AA	5720	DA	C5-C6-N6	-6.35	118.62	123.70
1	AA	7202	DC	O4'-C1'-N1	6.35	112.44	108.00
10	A8	43	DA	C5-C6-N6	-6.35	118.62	123.70
28	AS	16	DA	O4'-C1'-N9	6.35	112.44	108.00
32	AW	48	DA	C5-C6-N6	-6.35	118.62	123.70
33	AX	6	DA	C4-C5-C6	6.35	120.17	117.00
33	AX	44	DA	C5-C6-N6	-6.35	118.62	123.70
106	Bp	40	DG	C5-C6-O6	-6.35	124.79	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	165	DG	C5-C6-O6	-6.35	124.79	128.60
1	AA	1459	DG	C1'-O4'-C4'	-6.35	103.75	110.10
1	AA	5455	DA	C5-C6-N6	-6.35	118.62	123.70
1	AA	5535	DG	C5-C6-O6	-6.35	124.79	128.60
1	AA	6161	DA	C4-C5-C6	6.35	120.17	117.00
20	AK	39	DC	N3-C4-N4	6.35	122.44	118.00
1	AA	2649	DA	C5-C6-N6	-6.34	118.62	123.70
1	AA	6650	DA	P-O3'-C3'	6.34	127.31	119.70
24	AO	13	DA	C4-C5-C6	6.34	120.17	117.00
35	AZ	54	DC	N3-C4-N4	6.34	122.44	118.00
52	Aw	13	DA	C5-C6-N6	-6.34	118.62	123.70
153	Cq	31	DT	O4'-C1'-N1	6.34	112.44	108.00
1	AA	107	DA	C4-C5-C6	6.34	120.17	117.00
1	AA	3916	DA	C4-C5-C6	6.34	120.17	117.00
1	AA	5269	DG	C5-C6-O6	-6.34	124.79	128.60
4	A2	46	DA	C5-C6-N6	-6.34	118.62	123.70
74	BJ	4	DG	C5-C6-O6	-6.34	124.79	128.60
134	CQ	34	DA	P-O3'-C3'	6.34	127.31	119.70
1	AA	176	DC	O4'-C1'-C2'	-6.34	100.83	105.90
1	AA	874	DG	C5-C6-O6	-6.34	124.80	128.60
1	AA	3114	DA	C4-C5-C6	6.34	120.17	117.00
1	AA	4794	DG	O3'-P-O5'	-6.34	91.95	104.00
35	AZ	7	DA	C4-C5-C6	6.34	120.17	117.00
88	BX	43	DA	C5-C6-N6	-6.34	118.63	123.70
104	Bn	50	DG	C5-C6-O6	-6.34	124.80	128.60
133	CP	34	DC	C4'-C3'-C2'	-6.34	97.39	103.10
1	AA	3703	DG	C5-C6-O6	-6.34	124.80	128.60
1	AA	4889	DT	O4'-C1'-C2'	-6.34	100.83	105.90
1	AA	5889	DA	C5-C6-N6	-6.34	118.63	123.70
1	AA	7165	DT	O4'-C1'-C2'	-6.34	100.83	105.90
4	A2	25	DA	C5-C6-N6	-6.34	118.63	123.70
12	AC	19	DG	C1'-O4'-C4'	-6.34	103.76	110.10
95	Be	20	DG	C5-C6-O6	-6.34	124.80	128.60
156	Ct	11	DT	O4'-C4'-C3'	-6.34	101.96	104.50
1	AA	1231	DA	C4-C5-C6	6.34	120.17	117.00
1	AA	1565	DC	N3-C4-N4	6.34	122.44	118.00
1	AA	4261	DA	C4-C5-C6	6.34	120.17	117.00
36	Ab	35	DA	C4-C5-C6	6.34	120.17	117.00
1	AA	790	DC	N3-C4-N4	6.34	122.44	118.00
1	AA	5439	DA	C4-C5-C6	6.34	120.17	117.00
1	AA	6155	DG	P-O3'-C3'	6.34	127.30	119.70
2	A0	12	DT	O4'-C4'-C3'	-6.34	101.97	104.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	A3	27	DA	C5-C6-N6	-6.34	118.63	123.70
21	AL	14	DC	N3-C4-N4	6.34	122.44	118.00
25	AP	1	DA	C4-C5-C6	6.34	120.17	117.00
35	AZ	16	DG	P-O3'-C3'	6.34	127.30	119.70
68	BD	1	DG	O4'-C1'-C2'	-6.34	100.83	105.90
118	C8	1	DC	O4'-C1'-N1	6.34	112.44	108.00
122	CE	10	DA	C4-C5-C6	6.34	120.17	117.00
123	CF	15	DT	O4'-C1'-C2'	-6.34	100.83	105.90
144	Cb	2	DA	C4-C5-C6	6.34	120.17	117.00
148	Cf	10	DA	C4-C5-C6	6.34	120.17	117.00
1	AA	1271	DG	C5-C6-O6	-6.33	124.80	128.60
1	AA	3021	DC	N3-C4-N4	6.33	122.43	118.00
132	CO	35	DC	N3-C4-N4	6.33	122.43	118.00
1	AA	6397	DC	O4'-C1'-C2'	-6.33	100.83	105.90
13	AD	36	DA	C4-C5-C6	6.33	120.17	117.00
34	AY	14	DG	P-O3'-C3'	6.33	127.30	119.70
43	Aj	11	DA	C5-C6-N6	-6.33	118.63	123.70
56	B0	3	DG	C5-C6-O6	-6.33	124.80	128.60
77	BM	47	DA	C4-C5-C6	6.33	120.17	117.00
93	Bc	32	DG	C1'-O4'-C4'	-6.33	103.77	110.10
122	CE	21	DC	N3-C4-N4	6.33	122.43	118.00
137	CT	22	DA	C5-C6-N6	-6.33	118.63	123.70
1	AA	1358	DC	N3-C4-N4	6.33	122.43	118.00
1	AA	2870	DA	C4-C5-C6	6.33	120.17	117.00
1	AA	6663	DG	C5-C6-O6	-6.33	124.80	128.60
42	Ai	13	DA	P-O3'-C3'	6.33	127.30	119.70
50	Au	39	DG	C5-C6-O6	-6.33	124.80	128.60
159	Cw	3	DA	P-O5'-C5'	-6.33	110.77	120.90
1	AA	1611	DA	O4'-C1'-C2'	-6.33	100.84	105.90
1	AA	2469	DG	C5-C6-O6	-6.33	124.80	128.60
1	AA	4330	DC	N3-C4-N4	6.33	122.43	118.00
1	AA	6398	DA	C4-C5-C6	6.33	120.17	117.00
1	AA	6833	DG	C5-C6-O6	-6.33	124.80	128.60
33	AX	26	DC	N3-C4-N4	6.33	122.43	118.00
118	C8	44	DG	C5-C6-O6	-6.33	124.80	128.60
150	Ch	18	DC	N3-C4-N4	6.33	122.43	118.00
1	AA	256	DA	C4-C5-C6	6.33	120.17	117.00
1	AA	3590	DA	C5-C6-N6	-6.33	118.64	123.70
1	AA	4473	DA	C1'-O4'-C4'	-6.33	103.77	110.10
1	AA	5721	DA	C4-C5-C6	6.33	120.16	117.00
10	A8	10	DA	C4-C5-C6	6.33	120.17	117.00
19	AJ	16	DA	C4-C5-C6	6.33	120.17	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	Ad	2	DA	C4-C5-C6	6.33	120.16	117.00
43	Aj	42	DC	N3-C4-N4	6.33	122.43	118.00
62	B6	5	DG	C5-C6-O6	-6.33	124.80	128.60
112	C2	41	DC	N3-C4-N4	6.33	122.43	118.00
128	CK	13	DG	C5-C6-O6	-6.33	124.80	128.60
132	CO	16	DA	C5-C6-N6	-6.33	118.64	123.70
1	AA	2650	DA	C4-C5-C6	6.33	120.16	117.00
1	AA	5206	DG	C5-C6-O6	-6.33	124.80	128.60
1	AA	5435	DA	C4-C5-C6	6.33	120.16	117.00
1	AA	1273	DG	C5-C6-O6	-6.33	124.81	128.60
1	AA	1522	DA	O4'-C4'-C3'	-6.33	101.97	104.50
1	AA	1622	DA	O4'-C1'-N9	6.33	112.43	108.00
1	AA	2701	DA	C4-C5-C6	6.33	120.16	117.00
1	AA	7047	DC	O4'-C1'-C2'	-6.33	100.84	105.90
20	AK	59	DA	C4-C5-C6	6.33	120.16	117.00
129	CL	14	DA	C4-C5-C6	6.33	120.16	117.00
28	AS	8	DA	C4-C5-C6	6.32	120.16	117.00
2	A0	13	DA	C1'-O4'-C4'	-6.32	103.78	110.10
9	A7	32	DA	C5-C6-N6	-6.32	118.64	123.70
1	AA	2500	DC	O4'-C4'-C3'	-6.32	101.97	104.50
1	AA	2664	DG	C5-C6-O6	-6.32	124.81	128.60
1	AA	4865	DG	O4'-C1'-C2'	-6.32	100.84	105.90
62	B6	7	DG	C5-C6-O6	-6.32	124.81	128.60
71	BG	10	DA	C4-C5-C6	6.32	120.16	117.00
112	C2	51	DA	C4-C5-C6	6.32	120.16	117.00
118	C8	27	DA	C4-C5-C6	6.32	120.16	117.00
155	Cs	40	DA	C4-C5-C6	6.32	120.16	117.00
1	AA	6973	DT	P-O3'-C3'	6.32	127.28	119.70
32	AW	20	DC	O4'-C1'-C2'	-6.32	100.84	105.90
116	C6	23	DA	C5-C6-N6	-6.32	118.64	123.70
121	CD	16	DC	N3-C4-N4	6.32	122.42	118.00
1	AA	6059	DA	C5-C6-N6	-6.32	118.65	123.70
7	A5	37	DA	C5-C6-N6	-6.32	118.65	123.70
16	AG	24	DA	C4-C5-C6	6.32	120.16	117.00
29	AT	23	DG	C5-C6-O6	-6.32	124.81	128.60
71	BG	45	DA	C4-C5-C6	6.32	120.16	117.00
117	C7	23	DG	O4'-C1'-N9	6.32	112.42	108.00
134	CQ	1	DA	O4'-C1'-N9	6.32	112.42	108.00
1	AA	4951	DA	C4-C5-C6	6.32	120.16	117.00
1	AA	5161	DG	C5-C6-O6	-6.32	124.81	128.60
1	AA	5440	DC	N3-C4-N4	6.32	122.42	118.00
1	AA	5688	DA	C4-C5-C6	6.32	120.16	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A1	28	DG	C5-C6-O6	-6.32	124.81	128.60
58	B2	14	DG	C5-C6-O6	-6.32	124.81	128.60
78	BN	41	DT	P-O3'-C3'	6.32	127.28	119.70
1	AA	2851	DC	P-O5'-C5'	6.31	131.00	120.90
45	Al	34	DC	N3-C4-N4	6.31	122.42	118.00
1	AA	812	DA	C4-C5-C6	6.31	120.16	117.00
1	AA	3295	DA	C5-C6-N6	-6.31	118.65	123.70
1	AA	3365	DG	C5-C6-O6	-6.31	124.81	128.60
4	A2	35	DA	C4-C5-C6	6.31	120.16	117.00
5	A3	37	DG	O4'-C4'-C3'	-6.31	101.97	104.50
90	BZ	4	DA	C4-C5-C6	6.31	120.16	117.00
115	C5	50	DG	C5-C6-O6	-6.31	124.81	128.60
133	CP	26	DA	C4-C5-C6	6.31	120.16	117.00
1	AA	7125	DT	C1'-O4'-C4'	-6.31	103.79	110.10
106	Bp	28	DC	N3-C4-N4	6.31	122.42	118.00
133	CP	52	DA	C5-C6-N6	-6.31	118.65	123.70
145	Cc	1	DA	C5-C6-N6	-6.31	118.65	123.70
1	AA	1318	DA	C5-C6-N1	-6.31	114.55	117.70
1	AA	3556	DA	C5-C6-N1	-6.31	114.55	117.70
10	A8	13	DA	C4-C5-C6	6.31	120.15	117.00
28	AS	31	DA	C4-C5-C6	6.31	120.16	117.00
55	Az	39	DA	C5-C6-N6	-6.31	118.65	123.70
92	Bb	24	DA	C5-C6-N6	-6.31	118.65	123.70
144	Cb	16	DA	C5-C6-N6	-6.31	118.65	123.70
1	AA	6392	DG	O4'-C1'-C2'	-6.31	100.85	105.90
5	A3	1	DT	O4'-C1'-C2'	-6.31	100.86	105.90
61	B5	29	DA	C5-C6-N6	-6.31	118.65	123.70
75	BK	13	DA	C4-C5-C6	6.31	120.15	117.00
128	CK	16	DA	C5-C6-N6	-6.31	118.65	123.70
1	AA	475	DA	O4'-C1'-N9	6.31	112.41	108.00
1	AA	5856	DA	C5-C6-N6	-6.31	118.66	123.70
112	C2	48	DA	C5-C6-N6	-6.31	118.66	123.70
1	AA	1681	DA	C5-C6-N6	-6.30	118.66	123.70
1	AA	4126	DC	O4'-C1'-N1	6.30	112.41	108.00
1	AA	5189	DA	C5-C6-N1	-6.30	114.55	117.70
3	A1	27	DC	N3-C4-N4	6.30	122.41	118.00
17	AH	16	DA	C5-C6-N6	-6.30	118.66	123.70
158	Cv	8	DG	C5-C6-O6	-6.30	124.82	128.60
1	AA	1670	DA	C5-C6-N6	-6.30	118.66	123.70
1	AA	2143	DG	O4'-C1'-C2'	-6.30	100.86	105.90
1	AA	5458	DA	C4-C5-C6	6.30	120.15	117.00
5	A3	35	DC	N3-C4-N4	6.30	122.41	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
116	C6	42	DC	N3-C4-N4	6.30	122.41	118.00
1	AA	2654	DA	C5-C6-N1	-6.30	114.55	117.70
1	AA	2977	DC	O4'-C4'-C3'	-6.30	101.98	104.50
1	AA	3493	DA	C5-C6-N6	-6.30	118.66	123.70
1	AA	5583	DA	C4-C5-C6	6.30	120.15	117.00
1	AA	5972	DA	C4-C5-C6	6.30	120.15	117.00
1	AA	6350	DA	C4-C5-C6	6.30	120.15	117.00
1	AA	6431	DA	C5-C6-N6	-6.30	118.66	123.70
33	AX	15	DG	P-O3'-C3'	6.30	127.26	119.70
61	B5	15	DA	C4-C5-C6	6.30	120.15	117.00
77	BM	31	DA	C4-C5-C6	6.30	120.15	117.00
79	BO	3	DC	N3-C4-N4	6.30	122.41	118.00
112	C2	19	DA	C5-C6-N6	-6.30	118.66	123.70
1	AA	1029	DC	O4'-C4'-C3'	-6.30	101.98	104.50
1	AA	1691	DC	O4'-C1'-N1	6.30	112.41	108.00
1	AA	2924	DC	N3-C4-N4	6.30	122.41	118.00
1	AA	2990	DA	C4-C5-C6	6.30	120.15	117.00
1	AA	3481	DC	N3-C4-N4	6.30	122.41	118.00
20	AK	19	DG	C5-C6-O6	-6.30	124.82	128.60
43	Aj	46	DA	C4-C5-C6	6.30	120.15	117.00
71	BG	2	DA	C4-C5-C6	6.30	120.15	117.00
125	CH	3	DG	C5-C6-O6	-6.30	124.82	128.60
133	CP	1	DC	N3-C4-N4	6.30	122.41	118.00
1	AA	5545	DA	O4'-C4'-C3'	-6.30	101.98	104.50
1	AA	6849	DT	O4'-C1'-C2'	-6.30	100.86	105.90
39	Af	29	DA	C4-C5-C6	6.30	120.15	117.00
99	Bi	38	DG	C5-C6-O6	-6.30	124.82	128.60
160	Cx	38	DA	C5-C6-N6	-6.30	118.66	123.70
1	AA	171	DA	C4-C5-C6	6.30	120.15	117.00
1	AA	2304	DA	C4-C5-C6	6.30	120.15	117.00
1	AA	4720	DA	C4-C5-C6	6.30	120.15	117.00
1	AA	6424	DA	C4-C5-C6	6.30	120.15	117.00
1	AA	6428	DC	N3-C4-N4	6.30	122.41	118.00
1	AA	6440	DC	O4'-C4'-C3'	-6.30	101.98	104.50
30	AU	39	DA	C4-C5-C6	6.30	120.15	117.00
36	Ab	43	DT	O4'-C4'-C3'	-6.30	101.98	104.50
58	B2	9	DA	C5-C6-N6	-6.30	118.66	123.70
90	BZ	56	DA	C4-C5-C6	6.30	120.15	117.00
9	A7	7	DA	P-O3'-C3'	6.29	127.25	119.70
60	B4	16	DA	O4'-C1'-N9	6.29	112.41	108.00
102	Bl	26	DC	N3-C4-N4	6.29	122.41	118.00
70	BF	21	DC	N3-C4-N4	6.29	122.41	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
102	Bl	37	DC	P-O3'-C3'	6.29	127.25	119.70
132	CO	20	DC	N3-C4-N4	6.29	122.41	118.00
137	CT	28	DA	C4-C5-C6	6.29	120.15	117.00
1	AA	227	DG	C5-C6-O6	-6.29	124.83	128.60
1	AA	1251	DG	O4'-C1'-C2'	-6.29	100.87	105.90
1	AA	2496	DA	C4-C5-C6	6.29	120.15	117.00
1	AA	4158	DA	C5-C6-N6	-6.29	118.67	123.70
1	AA	5831	DA	C4-C5-C6	6.29	120.14	117.00
43	Aj	40	DA	C4-C5-C6	6.29	120.15	117.00
57	B1	49	DA	C5-C6-N6	-6.29	118.67	123.70
133	CP	29	DT	P-O5'-C5'	-6.29	110.83	120.90
150	Ch	19	DA	O4'-C1'-N9	6.29	112.41	108.00
1	AA	889	DG	C5-C6-O6	-6.29	124.83	128.60
1	AA	6629	DC	C1'-O4'-C4'	-6.29	103.81	110.10
81	BQ	40	DA	O4'-C1'-C2'	-6.29	100.87	105.90
97	Bg	36	DA	C4-C5-C6	6.29	120.14	117.00
1	AA	4427	DA	C5-C6-N6	-6.29	118.67	123.70
81	BQ	6	DA	C4-C5-C6	6.29	120.14	117.00
162	Cz	19	DA	C4-C5-C6	6.29	120.14	117.00
52	Aw	17	DA	C5-C6-N6	-6.29	118.67	123.70
1	AA	969	DA	C5-C6-N6	-6.29	118.67	123.70
1	AA	4883	DA	C4-C5-C6	6.29	120.14	117.00
6	A4	35	DA	O4'-C1'-C2'	-6.29	100.87	105.90
33	AX	43	DA	C4-C5-C6	6.29	120.14	117.00
92	Bb	9	DG	O4'-C1'-N9	6.29	112.40	108.00
115	C5	34	DA	C5-C6-N6	-6.29	118.67	123.70
160	Cx	26	DA	C4-C5-C6	6.29	120.14	117.00
1	AA	1622	DA	C5-C6-N6	-6.28	118.67	123.70
1	AA	5781	DA	C4-C5-C6	6.28	120.14	117.00
22	AM	22	DA	C4-C5-C6	6.28	120.14	117.00
30	AU	45	DA	O4'-C1'-N9	6.28	112.40	108.00
43	Aj	45	DA	C4-C5-C6	6.28	120.14	117.00
65	B9	9	DA	C5-C6-N6	-6.28	118.67	123.70
68	BD	35	DG	C5-C6-O6	-6.28	124.83	128.60
95	Be	9	DG	C5-C6-O6	-6.28	124.83	128.60
122	CE	23	DA	C4-C5-C6	6.28	120.14	117.00
1	AA	5035	DA	C4-C5-C6	6.28	120.14	117.00
1	AA	6513	DA	C5-C6-N6	-6.28	118.67	123.70
128	CK	46	DA	C5-C6-N6	-6.28	118.67	123.70
157	Cu	6	DA	C4-C5-C6	6.28	120.14	117.00
1	AA	2746	DC	N3-C4-N4	6.28	122.40	118.00
19	AJ	32	DA	C4-C5-C6	6.28	120.14	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
52	Aw	15	DA	C4-C5-C6	6.28	120.14	117.00
70	BF	36	DA	C5-C6-N6	-6.28	118.68	123.70
86	BV	13	DA	C4-C5-C6	6.28	120.14	117.00
1	AA	3533	DG	P-O3'-C3'	6.28	127.23	119.70
1	AA	5284	DG	C5-C6-O6	-6.28	124.83	128.60
7	A5	29	DA	C5-C6-N6	-6.28	118.68	123.70
28	AS	27	DA	C4-C5-C6	6.28	120.14	117.00
28	AS	59	DA	C4-C5-C6	6.28	120.14	117.00
35	AZ	25	DC	N3-C4-N4	6.28	122.40	118.00
1	AA	1616	DA	C4-C5-C6	6.28	120.14	117.00
1	AA	6443	DC	N3-C4-N4	6.28	122.39	118.00
77	BM	1	DA	C4-C5-C6	6.28	120.14	117.00
120	CC	25	DA	C5-C6-N6	-6.28	118.68	123.70
150	Ch	18	DC	N3-C4-C5	-6.28	119.39	121.90
1	AA	3718	DA	C4-C5-C6	6.28	120.14	117.00
1	AA	4845	DG	C5-C6-O6	-6.28	124.83	128.60
1	AA	5639	DG	C5-C6-O6	-6.28	124.83	128.60
1	AA	5694	DA	C4-C5-C6	6.28	120.14	117.00
55	Az	41	DG	P-O3'-C3'	6.28	127.23	119.70
63	B7	34	DG	C5-C6-O6	-6.28	124.83	128.60
1	AA	1457	DA	C4-C5-C6	6.27	120.14	117.00
1	AA	6381	DA	C4-C5-C6	6.27	120.14	117.00
28	AS	27	DA	O4'-C1'-N9	6.27	112.39	108.00
73	BI	12	DC	O4'-C1'-N1	6.27	112.39	108.00
1	AA	2249	DC	N3-C4-N4	6.27	122.39	118.00
1	AA	6401	DG	C5-C6-O6	-6.27	124.84	128.60
1	AA	6674	DG	C5-C6-O6	-6.27	124.84	128.60
1	AA	7021	DA	C4-C5-C6	6.27	120.14	117.00
14	AE	37	DT	P-O3'-C3'	6.27	127.23	119.70
15	AF	34	DT	O4'-C4'-C3'	-6.27	101.99	104.50
26	AQ	18	DG	C5-C6-O6	-6.27	124.84	128.60
30	AU	43	DG	O4'-C1'-N9	6.27	112.39	108.00
41	Ah	33	DA	C5-C6-N6	-6.27	118.68	123.70
43	Aj	24	DA	C5-C6-N6	-6.27	118.68	123.70
44	Ak	6	DA	C4-C5-C6	6.27	120.14	117.00
80	BP	9	DA	C4-C5-C6	6.27	120.14	117.00
1	AA	850	DC	C1'-O4'-C4'	-6.27	103.83	110.10
109	Bs	48	DG	C5-C6-O6	-6.27	124.84	128.60
1	AA	223	DA	C4-C5-C6	6.27	120.14	117.00
1	AA	5978	DA	P-O5'-C5'	6.27	130.93	120.90
26	AQ	30	DT	C1'-O4'-C4'	-6.27	103.83	110.10
58	B2	30	DA	C4-C5-C6	6.27	120.14	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
87	BW	13	DT	O4'-C1'-N1	6.27	112.39	108.00
147	Ce	42	DT	O4'-C4'-C3'	-6.27	101.99	104.50
1	AA	2185	DT	O4'-C4'-C3'	-6.27	101.99	104.50
1	AA	5457	DA	C5-C6-N6	-6.27	118.69	123.70
18	AI	27	DC	N3-C4-N4	6.27	122.39	118.00
43	Aj	28	DA	C4-C5-C6	6.27	120.13	117.00
88	BX	6	DG	C5-C6-O6	-6.27	124.84	128.60
113	C3	27	DA	C5-C6-N6	-6.27	118.69	123.70
147	Ce	11	DA	C5-C6-N6	-6.27	118.69	123.70
57	B1	37	DA	C1'-O4'-C4'	-6.27	103.83	110.10
158	Cv	1	DT	O4'-C1'-C2'	-6.27	100.89	105.90
1	AA	2749	DC	N3-C4-N4	6.26	122.39	118.00
1	AA	4521	DA	O4'-C1'-N9	6.26	112.39	108.00
1	AA	4861	DA	C4-C5-C6	6.26	120.13	117.00
1	AA	6001	DA	C5-C6-N6	-6.26	118.69	123.70
1	AA	6079	DA	C5-C6-N6	-6.26	118.69	123.70
1	AA	6628	DA	P-O3'-C3'	6.26	127.22	119.70
1	AA	7066	DA	C4-C5-C6	6.26	120.13	117.00
4	A2	39	DA	C5-C6-N6	-6.26	118.69	123.70
4	A2	47	DG	C5-C6-O6	-6.26	124.84	128.60
121	CD	46	DT	P-O3'-C3'	6.26	127.22	119.70
152	Cp	44	DA	C5-C6-N6	-6.26	118.69	123.70
1	AA	4658	DA	C4-C5-C6	6.26	120.13	117.00
29	AT	16	DC	N3-C4-N4	6.26	122.38	118.00
39	Af	36	DA	C5-C6-N6	-6.26	118.69	123.70
1	AA	1683	DA	O4'-C1'-C2'	-6.26	100.89	105.90
1	AA	2375	DT	O4'-C4'-C3'	-6.26	102.00	104.50
1	AA	3621	DA	C5-C6-N6	-6.26	118.69	123.70
1	AA	5228	DA	C5-C6-N6	-6.26	118.69	123.70
1	AA	6840	DA	C4-C5-C6	6.26	120.13	117.00
16	AG	16	DC	C4'-C3'-C2'	-6.26	97.46	103.10
24	AO	26	DA	C4-C5-C6	6.26	120.13	117.00
41	Ah	23	DC	N3-C4-N4	6.26	122.38	118.00
43	Aj	55	DA	C4-C5-C6	6.26	120.13	117.00
96	Bf	19	DC	N3-C4-N4	6.26	122.38	118.00
105	Bo	7	DA	C4-C5-C6	6.26	120.13	117.00
1	AA	216	DA	O4'-C1'-N9	6.26	112.38	108.00
1	AA	1820	DA	C4-C5-C6	6.26	120.13	117.00
1	AA	2361	DA	C4-C5-C6	6.26	120.13	117.00
1	AA	2945	DT	O4'-C1'-C2'	-6.26	100.89	105.90
1	AA	3970	DC	N3-C4-N4	6.26	122.38	118.00
1	AA	5557	DA	C4-C5-C6	6.26	120.13	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5745	DA	C5-C6-N1	-6.26	114.57	117.70
1	AA	6542	DT	C1'-O4'-C4'	-6.26	103.84	110.10
5	A3	22	DC	N3-C4-N4	6.26	122.38	118.00
39	Af	32	DA	C4-C5-C6	6.26	120.13	117.00
47	An	1	DC	N3-C4-N4	6.26	122.38	118.00
93	Bc	1	DC	O4'-C1'-C2'	-6.26	100.89	105.90
96	Bf	21	DG	O4'-C1'-N9	6.26	112.38	108.00
120	CC	44	DA	C4-C5-C6	6.26	120.13	117.00
1	AA	3011	DA	C4-C5-C6	6.26	120.13	117.00
1	AA	4572	DA	C4-C5-C6	6.26	120.13	117.00
15	AF	4	DC	N3-C4-N4	6.26	122.38	118.00
21	AL	32	DA	C4-C5-C6	6.26	120.13	117.00
65	B9	21	DA	C4-C5-C6	6.26	120.13	117.00
1	AA	1779	DA	C4-C5-C6	6.26	120.13	117.00
1	AA	3015	DA	C5-C6-N6	-6.26	118.70	123.70
1	AA	3016	DA	C5-C6-N1	-6.26	114.57	117.70
1	AA	6784	DA	C4-C5-C6	6.26	120.13	117.00
18	AI	36	DA	P-O3'-C3'	6.26	127.21	119.70
44	Ak	41	DA	C4-C5-C6	6.26	120.13	117.00
48	Ao	19	DC	N3-C4-N4	6.26	122.38	118.00
74	BJ	27	DA	C4-C5-C6	6.26	120.13	117.00
79	BO	6	DA	C4-C5-C6	6.26	120.13	117.00
95	Be	2	DA	C4-C5-C6	6.26	120.13	117.00
143	CZ	25	DA	C4-C5-C6	6.26	120.13	117.00
1	AA	5978	DA	C4-C5-C6	6.25	120.13	117.00
34	AY	2	DT	C1'-O4'-C4'	-6.25	103.84	110.10
52	Aw	12	DA	C5-C6-N6	-6.25	118.70	123.70
90	BZ	11	DG	P-O3'-C3'	6.25	127.21	119.70
157	Cu	3	DC	N3-C4-N4	6.25	122.38	118.00
1	AA	1290	DC	N3-C4-N4	6.25	122.38	118.00
1	AA	6997	DA	C5-C6-N6	-6.25	118.70	123.70
24	AO	5	DA	C4-C5-C6	6.25	120.13	117.00
39	Af	11	DA	C5-C6-N1	-6.25	114.57	117.70
55	Az	43	DT	P-O3'-C3'	6.25	127.20	119.70
76	BL	35	DA	C4-C5-C6	6.25	120.13	117.00
105	Bo	28	DA	C5-C6-N6	-6.25	118.70	123.70
1	AA	1069	DA	O4'-C1'-C2'	-6.25	100.90	105.90
1	AA	3011	DA	P-O5'-C5'	6.25	130.90	120.90
1	AA	3202	DA	C5-C6-N6	-6.25	118.70	123.70
1	AA	4183	DC	N3-C4-N4	6.25	122.38	118.00
14	AE	6	DA	C4-C5-C6	6.25	120.13	117.00
1	AA	701	DA	C5-C6-N6	-6.25	118.70	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
127	CJ	30	DA	C4-C5-C6	6.25	120.12	117.00
134	CQ	20	DA	C4-C5-C6	6.25	120.12	117.00
1	AA	141	DA	C4-C5-C6	6.25	120.12	117.00
1	AA	3624	DG	P-O3'-C3'	6.25	127.20	119.70
1	AA	4341	DA	C4-C5-C6	6.25	120.12	117.00
1	AA	4473	DA	O4'-C1'-C2'	-6.25	100.90	105.90
41	Ah	30	DC	C4'-C3'-C2'	-6.25	97.48	103.10
55	Az	32	DA	P-O3'-C3'	6.25	127.20	119.70
70	BF	10	DG	C5-C6-O6	-6.25	124.85	128.60
72	BH	14	DA	C4-C5-C6	6.25	120.12	117.00
72	BH	19	DC	O4'-C1'-C2'	-6.25	100.90	105.90
104	Bn	40	DG	P-O3'-C3'	6.25	127.20	119.70
112	C2	46	DG	N1-C6-O6	6.25	123.65	119.90
1	AA	2351	DA	C4-C5-C6	6.25	120.12	117.00
1	AA	5073	DA	C5-C6-N1	-6.25	114.58	117.70
2	A0	33	DA	C4-C5-C6	6.25	120.12	117.00
59	B3	43	DA	C4-C5-C6	6.25	120.12	117.00
72	BH	27	DA	C5-C6-N6	-6.25	118.70	123.70
127	CJ	33	DA	C4-C5-C6	6.25	120.12	117.00
136	CS	10	DA	C4-C5-C6	6.25	120.12	117.00
1	AA	6054	DA	C5-C6-N6	-6.25	118.70	123.70
1	AA	6074	DA	C4-C5-C6	6.24	120.12	117.00
20	AK	49	DG	C5-C6-O6	-6.24	124.85	128.60
26	AQ	19	DC	O4'-C1'-N1	6.24	112.37	108.00
1	AA	3082	DA	C4-C5-C6	6.24	120.12	117.00
1	AA	5079	DC	N3-C4-N4	6.24	122.37	118.00
7	A5	36	DA	C5-C6-N6	-6.24	118.71	123.70
8	A6	17	DA	P-O3'-C3'	6.24	127.19	119.70
14	AE	1	DC	O4'-C1'-C2'	-6.24	100.91	105.90
74	BJ	13	DA	C5-C6-N6	-6.24	118.71	123.70
79	BO	5	DA	C4-C5-C6	6.24	120.12	117.00
127	CJ	29	DA	P-O3'-C3'	6.24	127.19	119.70
128	CK	8	DA	C5-C6-N6	-6.24	118.71	123.70
1	AA	1683	DA	C5-C6-N1	-6.24	114.58	117.70
1	AA	1691	DC	N3-C4-N4	6.24	122.37	118.00
1	AA	3122	DA	C4-C5-C6	6.24	120.12	117.00
1	AA	3475	DA	C5-C6-N6	-6.24	118.71	123.70
1	AA	3505	DA	C4-C5-C6	6.24	120.12	117.00
1	AA	4644	DA	C5-C6-N6	-6.24	118.71	123.70
106	Bp	32	DC	C2-N1-C1'	6.24	125.66	118.80
109	Bs	17	DA	C4-C5-C6	6.24	120.12	117.00
126	CI	38	DA	C4-C5-C6	6.24	120.12	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
133	CP	11	DA	O4'-C1'-C2'	-6.24	100.91	105.90
133	CP	24	DA	C4-C5-C6	6.24	120.12	117.00
149	Cg	2	DA	C5-C6-N6	-6.24	118.71	123.70
1	AA	594	DC	N3-C4-N4	6.24	122.37	118.00
1	AA	2006	DA	C4-C5-C6	6.24	120.12	117.00
1	AA	6974	DT	O4'-C1'-N1	6.24	112.37	108.00
45	Al	22	DC	N3-C4-N4	6.24	122.37	118.00
70	BF	30	DA	C4-C5-C6	6.24	120.12	117.00
77	BM	34	DC	N3-C4-C5	-6.24	119.40	121.90
83	BS	38	DA	C4-C5-C6	6.24	120.12	117.00
87	BW	30	DA	C4-C5-C6	6.24	120.12	117.00
93	Bc	9	DG	C5-C6-O6	-6.24	124.86	128.60
118	C8	27	DA	C5-C6-N6	-6.24	118.71	123.70
122	CE	18	DA	C4-C5-C6	6.24	120.12	117.00
1	AA	4785	DA	C4-C5-C6	6.24	120.12	117.00
1	AA	6106	DG	P-O3'-C3'	6.24	127.19	119.70
39	Af	31	DA	C4-C5-C6	6.24	120.12	117.00
76	BL	38	DA	C4-C5-C6	6.24	120.12	117.00
101	Bk	67	DT	C1'-O4'-C4'	-6.24	103.86	110.10
146	Cd	27	DA	C5-C6-N6	-6.24	118.71	123.70
1	AA	2650	DA	C5-C6-N6	-6.24	118.71	123.70
1	AA	2737	DA	C4-C5-C6	6.24	120.12	117.00
1	AA	3202	DA	C1'-O4'-C4'	-6.24	103.86	110.10
1	AA	4891	DA	C5-C6-N1	-6.24	114.58	117.70
29	AT	21	DC	N3-C4-N4	6.24	122.36	118.00
30	AU	45	DA	C4-C5-C6	6.24	120.12	117.00
56	B0	11	DA	C4-C5-C6	6.24	120.12	117.00
94	Bd	24	DA	C4-C5-C6	6.24	120.12	117.00
108	Br	39	DA	C5-C6-N6	-6.24	118.71	123.70
113	C3	46	DC	N3-C4-N4	6.24	122.36	118.00
119	CB	22	DA	C5-C6-N6	-6.24	118.71	123.70
142	CY	22	DA	C4-C5-C6	6.24	120.12	117.00
1	AA	657	DA	P-O3'-C3'	6.23	127.18	119.70
1	AA	2464	DA	C5-C6-N6	-6.23	118.71	123.70
46	Am	14	DA	C5-C6-N6	-6.23	118.71	123.70
66	BB	30	DA	C4-C5-C6	6.23	120.12	117.00
1	AA	146	DA	C4-C5-C6	6.23	120.12	117.00
1	AA	717	DT	C1'-O4'-C4'	-6.23	103.87	110.10
1	AA	1435	DA	C4-C5-C6	6.23	120.12	117.00
1	AA	5067	DG	C5-C6-O6	-6.23	124.86	128.60
1	AA	5158	DA	C5-C6-N6	-6.23	118.71	123.70
2	A0	21	DA	C4-C5-C6	6.23	120.12	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
42	Ai	22	DA	C4-C5-C6	6.23	120.12	117.00
75	BK	26	DA	C4-C5-C6	6.23	120.12	117.00
86	BV	36	DG	C5-C6-O6	-6.23	124.86	128.60
159	Cw	24	DA	C4-C5-C6	6.23	120.12	117.00
1	AA	1943	DA	C5-C6-N6	-6.23	118.72	123.70
1	AA	2123	DA	C4-C5-C6	6.23	120.11	117.00
1	AA	3213	DG	P-O3'-C3'	6.23	127.18	119.70
1	AA	5954	DC	N3-C4-C5	-6.23	119.41	121.90
1	AA	6667	DA	C5-C6-N6	-6.23	118.72	123.70
6	A4	8	DT	O4'-C1'-N1	6.23	112.36	108.00
37	Ac	7	DT	C1'-O4'-C4'	-6.23	103.87	110.10
40	Ag	12	DA	C4-C5-C6	6.23	120.11	117.00
83	BS	15	DC	C1'-O4'-C4'	-6.23	103.87	110.10
85	BU	45	DG	C5-C6-O6	-6.23	124.86	128.60
129	CL	14	DA	C1'-O4'-C4'	-6.23	103.87	110.10
138	CU	31	DA	C4-C5-C6	6.23	120.11	117.00
142	CY	23	DA	C5-C6-N6	-6.23	118.72	123.70
158	Cv	28	DC	O4'-C1'-N1	6.23	112.36	108.00
161	Cy	58	DA	C1'-O4'-C4'	-6.23	103.87	110.10
1	AA	7119	DC	N3-C4-N4	6.23	122.36	118.00
112	C2	13	DA	C4-C5-C6	6.23	120.11	117.00
1	AA	3324	DA	C5-C6-N6	-6.23	118.72	123.70
1	AA	3494	DA	C4-C5-C6	6.23	120.11	117.00
1	AA	4265	DA	C5-C6-N6	-6.23	118.72	123.70
1	AA	6001	DA	C1'-O4'-C4'	-6.23	103.87	110.10
1	AA	6688	DA	C5-C6-N6	-6.23	118.72	123.70
20	AK	12	DC	N3-C4-N4	6.23	122.36	118.00
29	AT	1	DA	C4-C5-C6	6.23	120.11	117.00
141	CX	30	DT	P-O5'-C5'	-6.23	110.94	120.90
59	B3	14	DA	C4-C5-C6	6.23	120.11	117.00
1	AA	2006	DA	C5-C6-N6	-6.22	118.72	123.70
1	AA	2948	DA	C5-C6-N1	-6.22	114.59	117.70
1	AA	3091	DA	C4-C5-C6	6.22	120.11	117.00
1	AA	3486	DA	C4-C5-C6	6.22	120.11	117.00
1	AA	4695	DA	C4-C5-C6	6.22	120.11	117.00
1	AA	5257	DA	C4-C5-C6	6.22	120.11	117.00
1	AA	5572	DA	C4-C5-C6	6.22	120.11	117.00
2	A0	52	DA	C5-C6-N6	-6.22	118.72	123.70
104	Bn	25	DA	C5-C6-N6	-6.22	118.72	123.70
110	C0	9	DA	C5-C6-N6	-6.22	118.72	123.70
1	AA	88	DA	C4-C5-C6	6.22	120.11	117.00
1	AA	2473	DA	C4-C5-C6	6.22	120.11	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2494	DA	C4-C5-C6	6.22	120.11	117.00
1	AA	4293	DT	P-O3'-C3'	6.22	127.17	119.70
1	AA	5694	DA	C5-C6-N6	-6.22	118.72	123.70
23	AN	5	DA	C5-C6-N6	-6.22	118.72	123.70
31	AV	16	DA	C4-C5-C6	6.22	120.11	117.00
57	B1	9	DA	C4-C5-C6	6.22	120.11	117.00
118	C8	5	DA	C4-C5-C6	6.22	120.11	117.00
143	CZ	1	DG	O4'-C1'-N9	6.22	112.36	108.00
1	AA	1095	DA	C4-C5-C6	6.22	120.11	117.00
1	AA	2999	DA	C5-C6-N6	-6.22	118.72	123.70
1	AA	3443	DC	N3-C4-N4	6.22	122.36	118.00
1	AA	4354	DA	C5-C6-N6	-6.22	118.72	123.70
43	Aj	57	DC	N3-C4-N4	6.22	122.36	118.00
79	BO	8	DC	N3-C4-N4	6.22	122.36	118.00
159	Cw	27	DA	C4-C5-C6	6.22	120.11	117.00
1	AA	1567	DA	C4-C5-C6	6.22	120.11	117.00
1	AA	2111	DA	C4-C5-C6	6.22	120.11	117.00
1	AA	3198	DA	P-O5'-C5'	-6.22	110.95	120.90
1	AA	3475	DA	C4-C5-C6	6.22	120.11	117.00
1	AA	3562	DA	C4-C5-C6	6.22	120.11	117.00
1	AA	6219	DT	O4'-C1'-N1	6.22	112.35	108.00
1	AA	6350	DA	C5-C6-N6	-6.22	118.72	123.70
119	CB	4	DA	C4-C5-C6	6.22	120.11	117.00
122	CE	18	DA	C5-C6-N6	-6.22	118.72	123.70
1	AA	3733	DA	C4-C5-C6	6.22	120.11	117.00
112	C2	30	DA	C4-C5-C6	6.22	120.11	117.00
157	Cu	33	DA	P-O3'-C3'	6.22	127.16	119.70
1	AA	5021	DA	C5-C6-N6	-6.22	118.73	123.70
89	BY	48	DT	C1'-O4'-C4'	-6.22	103.88	110.10
129	CL	15	DA	O4'-C1'-C2'	-6.22	100.93	105.90
1	AA	1016	DA	C5-C6-N6	-6.21	118.73	123.70
1	AA	1054	DA	C4-C5-C6	6.21	120.11	117.00
1	AA	3444	DT	O4'-C1'-C2'	-6.21	100.93	105.90
1	AA	4196	DA	C4-C5-C6	6.21	120.11	117.00
1	AA	5407	DA	C4-C5-C6	6.21	120.11	117.00
1	AA	5457	DA	O4'-C4'-C3'	-6.21	102.02	104.50
1	AA	6527	DG	O4'-C1'-C2'	-6.21	100.93	105.90
1	AA	6962	DA	C4-C5-C6	6.21	120.11	117.00
30	AU	41	DC	P-O3'-C3'	6.21	127.16	119.70
39	Af	30	DA	O4'-C4'-C3'	-6.21	102.01	104.50
63	B7	43	DA	C4-C5-C6	6.21	120.11	117.00
74	BJ	19	DC	O4'-C4'-C3'	-6.21	102.01	104.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
99	Bi	25	DA	C5-C6-N6	-6.21	118.73	123.70
1	AA	783	DA	C4-C5-C6	6.21	120.11	117.00
1	AA	3668	DA	C4-C5-C6	6.21	120.11	117.00
1	AA	4302	DT	O4'-C1'-N1	6.21	112.35	108.00
1	AA	326	DA	C4-C5-C6	6.21	120.11	117.00
1	AA	3405	DA	C4-C5-C6	6.21	120.11	117.00
1	AA	3549	DA	C4-C5-C6	6.21	120.11	117.00
1	AA	6407	DC	N3-C4-N4	6.21	122.35	118.00
1	AA	6965	DA	C4-C5-C6	6.21	120.11	117.00
8	A6	15	DA	C4-C5-C6	6.21	120.11	117.00
8	A6	24	DA	C4-C5-C6	6.21	120.11	117.00
20	AK	36	DC	N3-C4-N4	6.21	122.35	118.00
23	AN	8	DC	N3-C4-N4	6.21	122.35	118.00
34	AY	17	DA	O4'-C1'-N9	6.21	112.35	108.00
37	Ac	55	DA	C5-C6-N1	-6.21	114.59	117.70
38	Ad	12	DA	C5-C6-N1	-6.21	114.59	117.70
40	Ag	13	DG	O4'-C1'-N9	6.21	112.35	108.00
41	Ah	28	DC	N3-C4-N4	6.21	122.35	118.00
78	BN	37	DA	C5-C6-N6	-6.21	118.73	123.70
102	Bl	36	DA	C4-C5-C6	6.21	120.11	117.00
1	AA	2034	DA	C5-C6-N6	-6.21	118.73	123.70
1	AA	2289	DA	C5-C6-N6	-6.21	118.73	123.70
1	AA	3162	DA	C4-C5-C6	6.21	120.11	117.00
1	AA	1837	DG	C5-C6-O6	-6.21	124.88	128.60
1	AA	2944	DA	C5-C6-N6	-6.21	118.73	123.70
1	AA	3185	DA	C5-C6-N6	-6.21	118.73	123.70
1	AA	6818	DC	O4'-C4'-C3'	-6.21	102.02	104.50
27	AR	57	DA	C4-C5-C6	6.21	120.10	117.00
62	B6	21	DA	C4-C5-C6	6.21	120.10	117.00
81	BQ	31	DA	C4-C5-C6	6.21	120.10	117.00
83	BS	33	DA	C5-C6-N6	-6.21	118.73	123.70
92	Bb	11	DC	P-O3'-C3'	6.21	127.15	119.70
92	Bb	59	DA	C4-C5-C6	6.21	120.11	117.00
138	CU	22	DC	O4'-C1'-C2'	-6.21	100.93	105.90
152	Cp	44	DA	C4-C5-C6	6.21	120.10	117.00
1	AA	7	DA	C4-C5-C6	6.21	120.10	117.00
1	AA	1325	DA	C4-C5-C6	6.21	120.10	117.00
1	AA	2775	DA	O4'-C1'-N9	6.21	112.34	108.00
1	AA	3027	DA	P-O5'-C5'	6.21	130.83	120.90
1	AA	3922	DA	C5-C6-N6	-6.21	118.73	123.70
1	AA	5110	DA	C4-C5-C6	6.21	120.10	117.00
1	AA	5515	DA	C4-C5-C6	6.21	120.10	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6406	DA	C5-C6-N6	-6.21	118.73	123.70
1	AA	7210	DA	P-O3'-C3'	6.21	127.15	119.70
102	Bl	26	DC	C4'-C3'-C2'	-6.21	97.51	103.10
130	CM	13	DA	C4-C5-C6	6.21	120.10	117.00
137	CT	28	DA	O4'-C1'-C2'	-6.21	100.94	105.90
12	AC	11	DA	C4-C5-C6	6.21	120.10	117.00
43	Aj	6	DA	C4-C5-C6	6.21	120.10	117.00
51	Av	22	DA	C4-C5-C6	6.21	120.10	117.00
104	Bn	49	DC	N3-C4-N4	6.21	122.34	118.00
149	Cg	42	DC	N3-C4-N4	6.21	122.34	118.00
1	AA	2849	DG	C1'-O4'-C4'	-6.20	103.90	110.10
1	AA	2922	DC	N3-C4-N4	6.20	122.34	118.00
1	AA	3493	DA	C4-C5-C6	6.20	120.10	117.00
1	AA	6051	DA	C5-C6-N1	-6.20	114.60	117.70
9	A7	34	DC	N3-C4-N4	6.20	122.34	118.00
68	BD	10	DA	C4-C5-C6	6.20	120.10	117.00
100	Bj	7	DA	C4-C5-C6	6.20	120.10	117.00
130	CM	26	DA	C4-C5-C6	6.20	120.10	117.00
147	Ce	4	DA	C5-C6-N6	-6.20	118.74	123.70
149	Cg	13	DA	C4-C5-C6	6.20	120.10	117.00
1	AA	832	DC	N3-C4-N4	6.20	122.34	118.00
1	AA	4548	DA	C4-C5-C6	6.20	120.10	117.00
12	AC	24	DA	C5-C6-N6	-6.20	118.74	123.70
18	AI	17	DA	C4-C5-C6	6.20	120.10	117.00
89	BY	28	DA	C4-C5-C6	6.20	120.10	117.00
128	CK	45	DA	C4-C5-C6	6.20	120.10	117.00
132	CO	37	DA	C4-C5-C6	6.20	120.10	117.00
1	AA	2011	DA	C4-C5-C6	6.20	120.10	117.00
1	AA	2328	DA	C4-C5-C6	6.20	120.10	117.00
1	AA	3409	DA	C5-C6-N6	-6.20	118.74	123.70
1	AA	6381	DA	C5-C6-N6	-6.20	118.74	123.70
40	Ag	25	DA	C4-C5-C6	6.20	120.10	117.00
44	Ak	5	DA	C4-C5-C6	6.20	120.10	117.00
53	Ax	11	DA	C4-C5-C6	6.20	120.10	117.00
66	BB	32	DA	C4-C5-C6	6.20	120.10	117.00
78	BN	40	DA	C4-C5-C6	6.20	120.10	117.00
108	Br	38	DA	C4-C5-C6	6.20	120.10	117.00
140	CW	26	DA	C4-C5-C6	6.20	120.10	117.00
1	AA	1123	DA	C5-C6-N6	-6.20	118.74	123.70
1	AA	5752	DA	C4-C5-C6	6.20	120.10	117.00
1	AA	7194	DA	C4-C5-C6	6.20	120.10	117.00
27	AR	52	DG	C5-C6-O6	-6.20	124.88	128.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
31	AV	51	DA	C5-C6-N6	-6.20	118.74	123.70
47	An	46	DA	C5-C6-N6	-6.20	118.74	123.70
51	Av	3	DA	C4-C5-C6	6.20	120.10	117.00
60	B4	27	DA	C4-C5-C6	6.20	120.10	117.00
121	CD	35	DA	C5-C6-N6	-6.20	118.74	123.70
1	AA	1605	DA	C5-C6-N6	-6.20	118.74	123.70
1	AA	1751	DA	C5-C6-N6	-6.20	118.74	123.70
43	Aj	30	DA	C4-C5-C6	6.20	120.10	117.00
82	BR	35	DC	N3-C4-N4	6.20	122.34	118.00
83	BS	36	DA	C4-C5-C6	6.20	120.10	117.00
112	C2	45	DA	C4-C5-C6	6.20	120.10	117.00
154	Cr	45	DA	C4-C5-C6	6.20	120.10	117.00
1	AA	914	DA	C5-C6-N6	-6.20	118.74	123.70
1	AA	2496	DA	C5-C6-N6	-6.20	118.74	123.70
1	AA	2955	DA	C4-C5-C6	6.20	120.10	117.00
1	AA	3070	DC	N3-C4-N4	6.20	122.34	118.00
1	AA	3697	DA	C4-C5-C6	6.20	120.10	117.00
1	AA	5665	DT	P-O3'-C3'	6.20	127.14	119.70
1	AA	5751	DA	C5-C6-N6	-6.20	118.74	123.70
1	AA	5821	DC	N3-C4-N4	6.20	122.34	118.00
1	AA	6989	DA	C5-C6-N6	-6.20	118.74	123.70
20	AK	38	DC	N3-C4-N4	6.20	122.34	118.00
45	Al	20	DA	C5-C6-N6	-6.20	118.74	123.70
54	Ay	26	DA	C5-C6-N6	-6.20	118.74	123.70
88	BX	30	DA	C4-C5-C6	6.20	120.10	117.00
129	CL	42	DA	C4-C5-C6	6.20	120.10	117.00
142	CY	29	DA	C4-C5-C6	6.20	120.10	117.00
158	Cv	33	DC	N3-C4-N4	6.20	122.34	118.00
1	AA	4266	DA	C4-C5-C6	6.19	120.10	117.00
1	AA	4550	DA	C4-C5-C6	6.19	120.10	117.00
30	AU	3	DC	N3-C4-N4	6.19	122.34	118.00
44	Ak	30	DA	C5-C6-N6	-6.19	118.75	123.70
74	BJ	23	DC	P-O3'-C3'	6.19	127.13	119.70
96	Bf	1	DA	C4-C5-C6	6.19	120.10	117.00
104	Bn	37	DA	C4-C5-C6	6.19	120.10	117.00
1	AA	1239	DA	C4-C5-C6	6.19	120.10	117.00
1	AA	3047	DA	C4-C5-C6	6.19	120.10	117.00
1	AA	4033	DG	C5-C6-O6	-6.19	124.89	128.60
1	AA	4819	DA	C4-C5-C6	6.19	120.10	117.00
1	AA	4905	DG	O4'-C1'-C2'	-6.19	100.95	105.90
1	AA	6097	DG	O4'-C1'-C2'	-6.19	100.95	105.90
6	A4	29	DA	C4-C5-C6	6.19	120.10	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	AG	21	DA	C4-C5-C6	6.19	120.10	117.00
20	AK	40	DA	C4-C5-C6	6.19	120.10	117.00
86	BV	43	DA	C4-C5-C6	6.19	120.10	117.00
118	C8	7	DC	N3-C4-N4	6.19	122.33	118.00
143	CZ	5	DA	C5-C6-N6	-6.19	118.75	123.70
1	AA	445	DA	C4-C5-C6	6.19	120.09	117.00
1	AA	1464	DA	C4-C5-C6	6.19	120.09	117.00
1	AA	2905	DA	C4-C5-C6	6.19	120.09	117.00
1	AA	5425	DA	C5-C6-N6	-6.19	118.75	123.70
1	AA	5611	DG	C1'-O4'-C4'	-6.19	103.91	110.10
20	AK	33	DG	C5-C6-O6	-6.19	124.89	128.60
118	C8	33	DA	C5-C6-N6	-6.19	118.75	123.70
120	CC	35	DA	C4-C5-C6	6.19	120.09	117.00
149	Cg	11	DA	C4-C5-C6	6.19	120.09	117.00
1	AA	1646	DA	C4-C5-C6	6.19	120.09	117.00
1	AA	2289	DA	C4-C5-C6	6.19	120.09	117.00
1	AA	2839	DA	C4-C5-C6	6.19	120.09	117.00
1	AA	3343	DA	C4-C5-C6	6.19	120.09	117.00
1	AA	4595	DA	C4-C5-C6	6.19	120.09	117.00
1	AA	5752	DA	C5-C6-N6	-6.19	118.75	123.70
9	A7	27	DC	P-O3'-C3'	6.19	127.13	119.70
49	As	29	DA	C4-C5-C6	6.19	120.09	117.00
126	CI	15	DA	C4-C5-C6	6.19	120.09	117.00
138	CU	19	DA	C4-C5-C6	6.19	120.09	117.00
139	CV	31	DG	P-O3'-C3'	6.19	127.13	119.70
1	AA	850	DC	O4'-C4'-C3'	-6.19	102.03	104.50
1	AA	2321	DA	C4-C5-C6	6.19	120.09	117.00
1	AA	2946	DA	C5-C6-N6	-6.19	118.75	123.70
1	AA	3364	DA	C4-C5-C6	6.19	120.09	117.00
1	AA	5365	DA	C5-C6-N6	-6.19	118.75	123.70
10	A8	3	DA	C4-C5-C6	6.19	120.09	117.00
42	Ai	8	DG	O4'-C1'-N9	6.19	112.33	108.00
82	BR	17	DA	C5-C6-N6	-6.19	118.75	123.70
121	CD	27	DA	P-O3'-C3'	6.19	127.12	119.70
123	CF	15	DT	O4'-C4'-C3'	-6.19	102.03	104.50
142	CY	41	DA	C4-C5-C6	6.19	120.09	117.00
155	Cs	30	DA	C4-C5-C6	6.19	120.09	117.00
1	AA	2898	DA	C5-C6-N6	-6.19	118.75	123.70
1	AA	4802	DA	C5-C6-N6	-6.19	118.75	123.70
99	Bi	36	DC	N3-C4-N4	6.19	122.33	118.00
1	AA	261	DA	C4-C5-C6	6.18	120.09	117.00
1	AA	470	DC	O4'-C1'-C2'	-6.18	100.95	105.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	850	DC	O4'-C1'-C2'	-6.18	100.95	105.90
1	AA	1573	DA	C5-C6-N6	-6.18	118.75	123.70
1	AA	2524	DA	C4-C5-C6	6.18	120.09	117.00
1	AA	3293	DC	N3-C4-N4	6.18	122.33	118.00
1	AA	3405	DA	C5-C6-N6	-6.18	118.75	123.70
1	AA	3929	DA	C4-C5-C6	6.18	120.09	117.00
1	AA	4813	DA	C4-C5-C6	6.18	120.09	117.00
10	A8	39	DT	O4'-C1'-C2'	-6.18	100.95	105.90
12	AC	2	DA	C4-C5-C6	6.18	120.09	117.00
23	AN	38	DA	C4-C5-C6	6.18	120.09	117.00
91	Ba	23	DA	C4-C5-C6	6.18	120.09	117.00
1	AA	4677	DA	C4-C5-C6	6.18	120.09	117.00
1	AA	6857	DG	P-O3'-C3'	6.18	127.12	119.70
30	AU	41	DC	N3-C4-N4	6.18	122.33	118.00
71	BG	30	DA	P-O3'-C3'	6.18	127.12	119.70
121	CD	28	DA	C5-C6-N6	-6.18	118.75	123.70
128	CK	8	DA	C4-C5-C6	6.18	120.09	117.00
157	Cu	43	DA	C4-C5-C6	6.18	120.09	117.00
162	Cz	1	DC	O4'-C1'-N1	6.18	112.33	108.00
1	AA	404	DA	C4-C5-C6	6.18	120.09	117.00
1	AA	2494	DA	C5-C6-N6	-6.18	118.75	123.70
1	AA	6112	DC	N3-C4-N4	6.18	122.33	118.00
92	Bb	38	DA	C4-C5-C6	6.18	120.09	117.00
1	AA	2057	DA	C4-C5-C6	6.18	120.09	117.00
1	AA	2901	DC	N3-C4-N4	6.18	122.33	118.00
4	A2	7	DG	C5-C6-O6	-6.18	124.89	128.60
4	A2	40	DA	C4-C5-C6	6.18	120.09	117.00
101	Bk	7	DA	O4'-C1'-C2'	-6.18	100.96	105.90
104	Bn	39	DA	C4-C5-C6	6.18	120.09	117.00
138	CU	8	DA	C4-C5-C6	6.18	120.09	117.00
156	Ct	23	DA	C5-C6-N6	-6.18	118.76	123.70
1	AA	3772	DA	C4-C5-C6	6.18	120.09	117.00
1	AA	6497	DG	C5-C6-O6	-6.18	124.89	128.60
2	A0	1	DT	O4'-C1'-C2'	-6.18	100.96	105.90
71	BG	31	DA	C5-C6-N6	-6.18	118.76	123.70
107	Bq	2	DG	O4'-C1'-N9	6.18	112.33	108.00
1	AA	519	DA	C4-C5-C6	6.18	120.09	117.00
1	AA	1439	DA	C4-C5-C6	6.18	120.09	117.00
1	AA	4266	DA	C5-C6-N6	-6.18	118.76	123.70
1	AA	6301	DA	C5-C6-N6	-6.18	118.76	123.70
1	AA	7224	DA	C4-C5-C6	6.18	120.09	117.00
10	A8	9	DA	C4-C5-C6	6.18	120.09	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	Ad	9	DA	C5-C6-N6	-6.18	118.76	123.70
60	B4	35	DC	O4'-C1'-N1	6.18	112.32	108.00
64	B8	11	DA	C4-C5-C6	6.18	120.09	117.00
75	BK	21	DA	C4-C5-C6	6.18	120.09	117.00
102	Bl	41	DA	C4-C5-C6	6.18	120.09	117.00
156	Ct	1	DG	O4'-C1'-N9	6.18	112.32	108.00
1	AA	1315	DC	C1'-O4'-C4'	-6.17	103.92	110.10
1	AA	1891	DC	N3-C4-N4	6.17	122.32	118.00
1	AA	3050	DA	C5-C6-N6	-6.17	118.76	123.70
1	AA	3930	DA	C5-C6-N6	-6.17	118.76	123.70
13	AD	44	DG	O4'-C1'-N9	6.17	112.32	108.00
30	AU	9	DA	C4-C5-C6	6.17	120.09	117.00
48	Ao	9	DA	C4-C5-C6	6.17	120.09	117.00
52	Aw	13	DA	C4-C5-C6	6.17	120.09	117.00
59	B3	7	DA	C4-C5-C6	6.17	120.09	117.00
73	BI	6	DA	C4-C5-C6	6.17	120.09	117.00
84	BT	42	DA	C4-C5-C6	6.17	120.09	117.00
117	C7	6	DA	C4-C5-C6	6.17	120.09	117.00
1	AA	810	DA	C4-C5-C6	6.17	120.09	117.00
1	AA	1329	DA	C5-C6-N6	-6.17	118.76	123.70
1	AA	2506	DA	C4-C5-C6	6.17	120.09	117.00
1	AA	3098	DA	C5-C6-N6	-6.17	118.76	123.70
1	AA	6028	DC	N3-C4-N4	6.17	122.32	118.00
1	AA	6840	DA	O4'-C1'-C2'	-6.17	100.96	105.90
37	Ac	3	DA	C5-C6-N6	-6.17	118.76	123.70
67	BC	11	DA	C4-C5-C6	6.17	120.09	117.00
123	CF	36	DA	C4-C5-C6	6.17	120.09	117.00
1	AA	3212	DA	C4-C5-C6	6.17	120.09	117.00
1	AA	4053	DA	C4-C5-C6	6.17	120.09	117.00
1	AA	4145	DT	C1'-O4'-C4'	-6.17	103.93	110.10
1	AA	4488	DT	O4'-C4'-C3'	-6.17	102.03	104.50
1	AA	5317	DC	P-O5'-C5'	6.17	130.77	120.90
1	AA	5433	DA	O4'-C4'-C3'	-6.17	102.03	104.50
1	AA	5576	DA	C4-C5-C6	6.17	120.08	117.00
1	AA	5620	DA	C4-C5-C6	6.17	120.09	117.00
37	Ac	8	DA	C5-C6-N6	-6.17	118.76	123.70
40	Ag	8	DA	P-O3'-C3'	6.17	127.11	119.70
115	C5	38	DA	C4-C5-C6	6.17	120.09	117.00
130	CM	32	DC	N3-C4-N4	6.17	122.32	118.00
155	Cs	37	DA	C4-C5-C6	6.17	120.09	117.00
1	AA	2271	DA	C5-C6-N6	-6.17	118.76	123.70
1	AA	3957	DA	C4-C5-C6	6.17	120.08	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	4590	DA	C4-C5-C6	6.17	120.08	117.00
1	AA	4862	DA	C4-C5-C6	6.17	120.08	117.00
1	AA	32	DA	C5-C6-N6	-6.17	118.76	123.70
1	AA	1607	DA	C4-C5-C6	6.17	120.08	117.00
1	AA	1775	DA	O4'-C1'-C2'	-6.17	100.97	105.90
1	AA	2210	DA	C4-C5-C6	6.17	120.08	117.00
1	AA	2704	DA	C4-C5-C6	6.17	120.08	117.00
1	AA	5233	DA	C5-C6-N6	-6.17	118.76	123.70
3	A1	26	DA	C5-C6-N6	-6.17	118.77	123.70
15	AF	25	DA	C5-C6-N6	-6.17	118.77	123.70
33	AX	19	DC	N3-C4-N4	6.17	122.32	118.00
55	Az	35	DA	P-O3'-C3'	6.17	127.10	119.70
1	AA	1151	DA	C4-C5-C6	6.17	120.08	117.00
1	AA	2639	DA	O4'-C4'-C3'	-6.17	102.03	104.50
1	AA	4350	DC	N3-C4-N4	6.17	122.32	118.00
1	AA	5320	DA	C4-C5-C6	6.17	120.08	117.00
1	AA	5506	DC	N3-C4-N4	6.17	122.32	118.00
1	AA	5657	DC	N3-C4-N4	6.17	122.32	118.00
27	AR	46	DA	C4-C5-C6	6.17	120.08	117.00
39	Af	47	DA	C4-C5-C6	6.17	120.08	117.00
63	B7	43	DA	C5-C6-N6	-6.17	118.77	123.70
69	BE	3	DA	C5-C6-N6	-6.17	118.77	123.70
144	Cb	17	DC	N3-C4-N4	6.17	122.32	118.00
152	Cp	47	DA	P-O3'-C3'	6.17	127.10	119.70
154	Cr	31	DA	C4-C5-C6	6.17	120.08	117.00
1	AA	2654	DA	C4-C5-C6	6.17	120.08	117.00
1	AA	6450	DA	C4-C5-C6	6.17	120.08	117.00
115	C5	16	DA	C4-C5-C6	6.17	120.08	117.00
1	AA	5335	DC	N3-C4-N4	6.16	122.31	118.00
1	AA	5892	DA	C4-C5-C6	6.16	120.08	117.00
17	AH	43	DA	P-O5'-C5'	6.16	130.76	120.90
20	AK	34	DA	C5-C6-N6	-6.16	118.77	123.70
33	AX	14	DA	C4-C5-C6	6.16	120.08	117.00
61	B5	13	DA	C4-C5-C6	6.16	120.08	117.00
69	BE	6	DA	C4-C5-C6	6.16	120.08	117.00
69	BE	49	DA	C4-C5-C6	6.16	120.08	117.00
69	BE	68	DA	C4-C5-C6	6.16	120.08	117.00
86	BV	27	DA	C4-C5-C6	6.16	120.08	117.00
90	BZ	32	DA	C4-C5-C6	6.16	120.08	117.00
90	BZ	63	DA	C5-C6-N6	-6.16	118.77	123.70
108	Br	47	DT	O4'-C1'-C2'	-6.16	100.97	105.90
123	CF	22	DC	N3-C4-N4	6.16	122.31	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
130	CM	12	DA	C4-C5-C6	6.16	120.08	117.00
130	CM	16	DA	C4-C5-C6	6.16	120.08	117.00
151	Ck	27	DA	C4-C5-C6	6.16	120.08	117.00
1	AA	311	DA	C4-C5-C6	6.16	120.08	117.00
1	AA	2017	DA	C4-C5-C6	6.16	120.08	117.00
1	AA	1231	DA	C5-C6-N6	-6.16	118.77	123.70
1	AA	1418	DA	C1'-O4'-C4'	-6.16	103.94	110.10
1	AA	1606	DA	C5-C6-N6	-6.16	118.77	123.70
1	AA	1807	DC	N3-C4-N4	6.16	122.31	118.00
1	AA	2194	DG	O4'-C1'-C2'	-6.16	100.97	105.90
1	AA	4993	DA	C4-C5-C6	6.16	120.08	117.00
1	AA	6271	DA	C5-C6-N6	-6.16	118.77	123.70
47	An	22	DA	C4-C5-C6	6.16	120.08	117.00
111	C1	6	DA	C4-C5-C6	6.16	120.08	117.00
148	Cf	14	DA	P-O3'-C3'	6.16	127.09	119.70
158	Cv	31	DA	C5-C6-N6	-6.16	118.77	123.70
159	Cw	8	DA	C5-C6-N6	-6.16	118.77	123.70
1	AA	2398	DC	O4'-C4'-C3'	-6.16	102.04	104.50
1	AA	2838	DA	C5-C6-N6	-6.16	118.77	123.70
1	AA	2943	DA	C4-C5-C6	6.16	120.08	117.00
1	AA	5529	DA	C4-C5-C6	6.16	120.08	117.00
1	AA	6662	DA	C4-C5-C6	6.16	120.08	117.00
1	AA	7144	DA	C5-C6-N6	-6.16	118.77	123.70
10	A8	38	DA	C4'-C3'-C2'	-6.16	97.56	103.10
43	Aj	16	DA	P-O3'-C3'	6.16	127.09	119.70
131	CN	1	DC	O4'-C1'-C2'	-6.16	100.97	105.90
1	AA	1537	DA	C4-C5-C6	6.16	120.08	117.00
1	AA	1911	DC	O4'-C1'-N1	6.16	112.31	108.00
1	AA	2051	DA	C4-C5-C6	6.16	120.08	117.00
41	Ah	43	DC	N3-C4-N4	6.16	122.31	118.00
58	B2	5	DC	N3-C4-N4	6.16	122.31	118.00
107	Bq	50	DA	C5-C6-N6	-6.16	118.77	123.70
111	C1	34	DA	C4-C5-C6	6.16	120.08	117.00
152	Cp	18	DA	C4-C5-C6	6.16	120.08	117.00
1	AA	839	DA	C5-C6-N6	-6.16	118.78	123.70
1	AA	1971	DC	N3-C4-N4	6.16	122.31	118.00
1	AA	4948	DA	C4-C5-C6	6.16	120.08	117.00
1	AA	5438	DA	C4-C5-C6	6.16	120.08	117.00
1	AA	5950	DA	C4-C5-C6	6.16	120.08	117.00
1	AA	6080	DA	C5-C6-N6	-6.16	118.78	123.70
73	BI	9	DA	C4-C5-C6	6.16	120.08	117.00
106	Bp	31	DA	C5-C6-N6	-6.16	118.78	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
112	C2	49	DA	C4-C5-C6	6.16	120.08	117.00
117	C7	39	DA	C4-C5-C6	6.16	120.08	117.00
129	CL	6	DA	C4-C5-C6	6.16	120.08	117.00
151	Ck	19	DA	C4-C5-C6	6.16	120.08	117.00
1	AA	641	DA	C4-C5-C6	6.15	120.08	117.00
1	AA	5365	DA	C4-C5-C6	6.15	120.08	117.00
1	AA	5371	DA	C4-C5-C6	6.15	120.08	117.00
26	AQ	16	DA	C4-C5-C6	6.15	120.08	117.00
69	BE	45	DA	C4-C5-C6	6.15	120.08	117.00
128	CK	46	DA	C4-C5-C6	6.15	120.08	117.00
162	Cz	23	DA	C4-C5-C6	6.15	120.08	117.00
1	AA	1942	DA	C5-C6-N6	-6.15	118.78	123.70
1	AA	2468	DG	C5-C6-O6	-6.15	124.91	128.60
1	AA	6226	DT	O4'-C1'-N1	6.15	112.31	108.00
7	A5	37	DA	C4-C5-C6	6.15	120.08	117.00
14	AE	46	DA	C4-C5-C6	6.15	120.08	117.00
95	Be	47	DA	C5-C6-N6	-6.15	118.78	123.70
144	Cb	18	DA	C4-C5-C6	6.15	120.08	117.00
149	Cg	34	DA	C4-C5-C6	6.15	120.08	117.00
1	AA	2839	DA	C5-C6-N6	-6.15	118.78	123.70
1	AA	2913	DC	O4'-C1'-N1	6.15	112.31	108.00
1	AA	4084	DA	C4-C5-C6	6.15	120.08	117.00
1	AA	6432	DC	O4'-C1'-N1	6.15	112.31	108.00
7	A5	3	DA	C5-C6-N6	-6.15	118.78	123.70
34	AY	38	DA	C4-C5-C6	6.15	120.08	117.00
65	B9	24	DA	C5-C6-N6	-6.15	118.78	123.70
92	Bb	5	DG	O4'-C1'-N9	6.15	112.31	108.00
131	CN	5	DA	C5-C6-N6	-6.15	118.78	123.70
159	Cw	29	DC	O4'-C1'-N1	6.15	112.31	108.00
1	AA	4705	DA	C5-C6-N6	-6.15	118.78	123.70
103	Bm	28	DA	C4-C5-C6	6.15	120.07	117.00
122	CE	26	DA	C4-C5-C6	6.15	120.07	117.00
1	AA	1407	DA	C4-C5-C6	6.15	120.07	117.00
1	AA	2358	DA	C5-C6-N1	-6.15	114.63	117.70
1	AA	3039	DA	C4-C5-C6	6.15	120.07	117.00
1	AA	3235	DA	C4-C5-C6	6.15	120.07	117.00
1	AA	3383	DT	O4'-C1'-C2'	-6.15	100.98	105.90
1	AA	3625	DA	C5-C6-N6	-6.15	118.78	123.70
1	AA	3931	DA	C4-C5-C6	6.15	120.07	117.00
1	AA	5299	DG	O4'-C1'-C2'	-6.15	100.98	105.90
1	AA	5411	DA	C4-C5-C6	6.15	120.07	117.00
14	AE	26	DA	C5-C6-N6	-6.15	118.78	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	AU	17	DA	C4-C5-C6	6.15	120.07	117.00
43	Aj	14	DA	C4-C5-C6	6.15	120.07	117.00
54	Ay	26	DA	C4-C5-C6	6.15	120.07	117.00
96	Bf	22	DG	P-O3'-C3'	6.15	127.08	119.70
130	CM	49	DA	C4-C5-C6	6.15	120.07	117.00
145	Cc	36	DA	C4-C5-C6	6.15	120.07	117.00
147	Ce	16	DA	C5-C6-N1	-6.15	114.63	117.70
1	AA	1528	DA	C4-C5-C6	6.15	120.07	117.00
48	Ao	21	DC	N3-C4-N4	6.15	122.30	118.00
111	C1	41	DA	C4-C5-C6	6.15	120.07	117.00
112	C2	28	DC	N3-C4-N4	6.15	122.30	118.00
130	CM	14	DA	C4-C5-C6	6.15	120.07	117.00
134	CQ	32	DA	O4'-C1'-N9	6.15	112.30	108.00
157	Cu	60	DA	C4-C5-C6	6.15	120.07	117.00
1	AA	1517	DA	C5-C6-N6	-6.14	118.78	123.70
1	AA	2014	DA	C4-C5-C6	6.14	120.07	117.00
1	AA	2058	DA	C4-C5-C6	6.14	120.07	117.00
1	AA	3221	DA	C4-C5-C6	6.14	120.07	117.00
1	AA	3777	DC	N3-C4-N4	6.14	122.30	118.00
1	AA	4066	DC	N3-C4-N4	6.14	122.30	118.00
1	AA	4285	DT	O4'-C1'-N1	6.14	112.30	108.00
1	AA	4995	DA	P-O3'-C3'	6.14	127.08	119.70
1	AA	6836	DA	C4-C5-C6	6.14	120.07	117.00
157	Cu	14	DA	C5-C6-N6	-6.14	118.78	123.70
1	AA	547	DA	C5-C6-N6	-6.14	118.79	123.70
1	AA	2226	DA	C4-C5-C6	6.14	120.07	117.00
1	AA	2735	DG	C5-C6-O6	-6.14	124.91	128.60
1	AA	3964	DA	C4-C5-C6	6.14	120.07	117.00
1	AA	4027	DA	C4-C5-C6	6.14	120.07	117.00
1	AA	4100	DT	P-O3'-C3'	6.14	127.07	119.70
17	AH	6	DA	C4-C5-C6	6.14	120.07	117.00
52	Aw	2	DC	O4'-C1'-N1	6.14	112.30	108.00
60	B4	44	DA	C5-C6-N6	-6.14	118.79	123.70
62	B6	2	DA	C4-C5-C6	6.14	120.07	117.00
98	Bh	41	DT	O4'-C1'-C2'	-6.14	100.99	105.90
107	Bq	55	DA	C4-C5-C6	6.14	120.07	117.00
112	C2	48	DA	C4-C5-C6	6.14	120.07	117.00
131	CN	30	DA	C4-C5-C6	6.14	120.07	117.00
146	Cd	1	DA	C4-C5-C6	6.14	120.07	117.00
1	AA	5409	DC	O4'-C4'-C3'	-6.14	102.04	104.50
55	Az	33	DA	C4-C5-C6	6.14	120.07	117.00
92	Bb	44	DA	C4-C5-C6	6.14	120.07	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
144	Cb	24	DA	C4-C5-C6	6.14	120.07	117.00
1	AA	915	DC	N3-C4-N4	6.14	122.30	118.00
1	AA	1289	DG	C5-C6-O6	-6.14	124.92	128.60
1	AA	2946	DA	C4-C5-C6	6.14	120.07	117.00
1	AA	3012	DA	C4-C5-C6	6.14	120.07	117.00
1	AA	6613	DA	C1'-O4'-C4'	-6.14	103.96	110.10
1	AA	7205	DA	C5-C6-N6	-6.14	118.79	123.70
74	BJ	11	DA	P-O3'-C3'	6.14	127.07	119.70
98	Bh	10	DG	O4'-C1'-C2'	-6.14	100.99	105.90
103	Bm	1	DA	C5-C6-N6	-6.14	118.79	123.70
134	CQ	31	DA	C4-C5-C6	6.14	120.07	117.00
143	CZ	21	DA	C4-C5-C6	6.14	120.07	117.00
1	AA	1627	DA	C4-C5-C6	6.14	120.07	117.00
23	AN	15	DA	C4-C5-C6	6.14	120.07	117.00
64	B8	32	DA	C5-C6-N6	-6.14	118.79	123.70
116	C6	11	DA	O4'-C1'-C2'	-6.14	100.99	105.90
127	CJ	40	DA	C4-C5-C6	6.14	120.07	117.00
136	CS	45	DA	C5-C6-N6	-6.14	118.79	123.70
137	CT	6	DA	C4-C5-C6	6.14	120.07	117.00
146	Cd	29	DA	C4-C5-C6	6.14	120.07	117.00
1	AA	1344	DA	C4-C5-C6	6.14	120.07	117.00
1	AA	2617	DA	C4-C5-C6	6.14	120.07	117.00
1	AA	4736	DA	C4-C5-C6	6.14	120.07	117.00
1	AA	4773	DA	C4-C5-C6	6.14	120.07	117.00
1	AA	6131	DA	C4-C5-C6	6.14	120.07	117.00
1	AA	6602	DA	C5-C6-N6	-6.14	118.79	123.70
4	A2	49	DA	C4-C5-C6	6.14	120.07	117.00
20	AK	59	DA	O4'-C4'-C3'	-6.14	102.05	104.50
37	Ac	35	DG	C5-C6-O6	-6.14	124.92	128.60
42	Ai	7	DA	C4-C5-C6	6.14	120.07	117.00
67	BC	33	DA	C4-C5-C6	6.14	120.07	117.00
84	BT	20	DA	C4-C5-C6	6.14	120.07	117.00
111	C1	39	DA	C4-C5-C6	6.14	120.07	117.00
117	C7	46	DA	C4-C5-C6	6.14	120.07	117.00
123	CF	40	DA	C5-C6-N6	-6.14	118.79	123.70
150	Ch	4	DG	C5-C6-O6	-6.14	124.92	128.60
1	AA	1259	DA	O4'-C4'-C3'	-6.13	102.05	104.50
1	AA	3532	DA	C4-C5-C6	6.13	120.07	117.00
1	AA	6694	DA	C5-C6-N6	-6.13	118.79	123.70
26	AQ	18	DG	O4'-C1'-N9	6.13	112.30	108.00
29	AT	42	DG	C5-C6-O6	-6.13	124.92	128.60
101	Bk	59	DA	C4-C5-C6	6.13	120.07	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
130	CM	20	DA	C4-C5-C6	6.13	120.07	117.00
1	AA	725	DT	O4'-C1'-N1	6.13	112.29	108.00
1	AA	2669	DA	C4-C5-C6	6.13	120.07	117.00
1	AA	6996	DC	N3-C4-N4	6.13	122.29	118.00
1	AA	7110	DC	N3-C4-N4	6.13	122.29	118.00
27	AR	6	DA	C5-C6-N6	-6.13	118.79	123.70
86	BV	28	DA	C4-C5-C6	6.13	120.07	117.00
103	Bm	43	DA	C4-C5-C6	6.13	120.07	117.00
1	AA	1591	DA	C5-C6-N6	-6.13	118.80	123.70
1	AA	2614	DC	N3-C4-N4	6.13	122.29	118.00
1	AA	3054	DA	C5-C6-N6	-6.13	118.80	123.70
1	AA	3556	DA	C4-C5-C6	6.13	120.07	117.00
1	AA	4511	DA	C5-C6-N1	-6.13	114.63	117.70
21	AL	6	DA	O4'-C1'-C2'	-6.13	101.00	105.90
30	AU	25	DA	C5-C6-N6	-6.13	118.79	123.70
45	Al	7	DG	O4'-C1'-N9	6.13	112.29	108.00
52	Aw	1	DG	O4'-C1'-N9	6.13	112.29	108.00
59	B3	44	DA	C4-C5-C6	6.13	120.06	117.00
72	BH	16	DC	N3-C4-N4	6.13	122.29	118.00
74	BJ	33	DA	C5-C6-N6	-6.13	118.80	123.70
119	CB	7	DA	C1'-O4'-C4'	-6.13	103.97	110.10
138	CU	1	DA	C1'-O4'-C4'	-6.13	103.97	110.10
147	Ce	12	DA	C4-C5-C6	6.13	120.07	117.00
1	AA	965	DT	P-O3'-C3'	6.13	127.06	119.70
1	AA	1506	DA	C4-C5-C6	6.13	120.06	117.00
1	AA	1610	DT	P-O3'-C3'	6.13	127.06	119.70
1	AA	1780	DA	C5-C6-N6	-6.13	118.80	123.70
1	AA	3471	DA	C5-C6-N1	-6.13	114.64	117.70
1	AA	5719	DA	C4-C5-C6	6.13	120.06	117.00
1	AA	6089	DC	C1'-O4'-C4'	-6.13	103.97	110.10
32	AW	40	DA	C4-C5-C6	6.13	120.06	117.00
84	BT	24	DA	C4-C5-C6	6.13	120.06	117.00
154	Cr	13	DA	C4-C5-C6	6.13	120.06	117.00
1	AA	374	DA	C5-C6-N6	-6.13	118.80	123.70
1	AA	408	DT	P-O3'-C3'	6.13	127.05	119.70
1	AA	815	DC	N3-C4-N4	6.13	122.29	118.00
1	AA	1298	DA	C5-C6-N1	-6.13	114.64	117.70
1	AA	1584	DA	C4-C5-C6	6.13	120.06	117.00
1	AA	2180	DC	O4'-C1'-C2'	-6.13	101.00	105.90
1	AA	3590	DA	C4-C5-C6	6.13	120.06	117.00
1	AA	5758	DT	P-O3'-C3'	6.13	127.05	119.70
57	B1	34	DC	O4'-C1'-C2'	-6.13	101.00	105.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
57	B1	49	DA	C4-C5-C6	6.13	120.06	117.00
99	Bi	25	DA	C4-C5-C6	6.13	120.06	117.00
104	Bn	39	DA	C5-C6-N1	-6.13	114.64	117.70
1	AA	203	DG	O4'-C1'-C2'	-6.13	101.00	105.90
1	AA	319	DA	C4-C5-C6	6.13	120.06	117.00
1	AA	433	DA	C4-C5-C6	6.13	120.06	117.00
1	AA	1695	DA	C4-C5-C6	6.13	120.06	117.00
1	AA	1797	DA	C5-C6-N6	-6.13	118.80	123.70
1	AA	3262	DA	C5-C6-N6	-6.13	118.80	123.70
1	AA	5443	DA	C4-C5-C6	6.13	120.06	117.00
1	AA	5517	DA	C4-C5-C6	6.13	120.06	117.00
1	AA	5680	DA	C4-C5-C6	6.13	120.06	117.00
45	Al	33	DA	C4-C5-C6	6.13	120.06	117.00
52	Aw	6	DA	C4-C5-C6	6.13	120.06	117.00
62	B6	31	DA	C4-C5-C6	6.13	120.06	117.00
81	BQ	7	DA	C4-C5-C6	6.13	120.06	117.00
82	BR	39	DA	C4-C5-C6	6.13	120.06	117.00
135	CR	42	DA	C4-C5-C6	6.13	120.06	117.00
142	CY	4	DA	C4-C5-C6	6.13	120.06	117.00
1	AA	1382	DA	C4-C5-C6	6.12	120.06	117.00
1	AA	2240	DA	C4-C5-C6	6.12	120.06	117.00
1	AA	3691	DA	C4-C5-C6	6.12	120.06	117.00
1	AA	4651	DT	O4'-C1'-C2'	-6.12	101.00	105.90
1	AA	6896	DG	O4'-C1'-C2'	-6.12	101.00	105.90
19	AJ	8	DA	C4-C5-C6	6.12	120.06	117.00
34	AY	4	DA	C5-C6-N6	-6.12	118.80	123.70
64	B8	13	DA	C4-C5-C6	6.12	120.06	117.00
123	CF	38	DA	C5-C6-N6	-6.12	118.80	123.70
149	Cg	3	DA	C4-C5-C6	6.12	120.06	117.00
1	AA	1764	DA	C4-C5-C6	6.12	120.06	117.00
1	AA	3662	DA	C4-C5-C6	6.12	120.06	117.00
1	AA	4539	DA	C4-C5-C6	6.12	120.06	117.00
1	AA	5093	DA	C4-C5-C6	6.12	120.06	117.00
1	AA	5909	DA	C4-C5-C6	6.12	120.06	117.00
4	A2	6	DA	O4'-C1'-N9	6.12	112.29	108.00
5	A3	15	DT	C1'-O4'-C4'	-6.12	103.98	110.10
13	AD	9	DA	C5-C6-N6	-6.12	118.80	123.70
27	AR	31	DA	C4-C5-C6	6.12	120.06	117.00
40	Ag	8	DA	O4'-C1'-N9	6.12	112.29	108.00
51	Av	38	DA	C4-C5-C6	6.12	120.06	117.00
62	B6	3	DA	C5-C6-N6	-6.12	118.80	123.70
91	Ba	45	DC	N3-C4-N4	6.12	122.29	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
112	C2	3	DA	C4-C5-C6	6.12	120.06	117.00
131	CN	41	DA	C4-C5-C6	6.12	120.06	117.00
137	CT	27	DA	C5-C6-N6	-6.12	118.80	123.70
141	CX	41	DA	C5-C6-N6	-6.12	118.80	123.70
155	Cs	38	DG	O4'-C1'-C2'	-6.12	101.00	105.90
1	AA	1117	DA	C4-C5-C6	6.12	120.06	117.00
1	AA	1128	DA	C4-C5-C6	6.12	120.06	117.00
1	AA	1348	DT	P-O3'-C3'	6.12	127.05	119.70
1	AA	1536	DA	C4-C5-C6	6.12	120.06	117.00
1	AA	2371	DA	C5-C6-N6	-6.12	118.80	123.70
1	AA	3050	DA	C4-C5-C6	6.12	120.06	117.00
1	AA	4205	DA	C4-C5-C6	6.12	120.06	117.00
8	A6	2	DA	C4-C5-C6	6.12	120.06	117.00
60	B4	11	DG	C5-C6-O6	-6.12	124.93	128.60
74	BJ	2	DA	C4-C5-C6	6.12	120.06	117.00
79	BO	19	DA	C1'-O4'-C4'	-6.12	103.98	110.10
81	BQ	40	DA	C5-C6-N6	-6.12	118.80	123.70
102	Bl	28	DA	C4-C5-C6	6.12	120.06	117.00
135	CR	20	DA	C4-C5-C6	6.12	120.06	117.00
1	AA	5028	DA	C4-C5-C6	6.12	120.06	117.00
1	AA	6345	DA	C5-C6-N6	-6.12	118.80	123.70
8	A6	10	DA	C5-C6-N6	-6.12	118.80	123.70
99	Bi	16	DA	C4-C5-C6	6.12	120.06	117.00
1	AA	751	DA	C5-C6-N6	-6.12	118.81	123.70
1	AA	891	DA	C4-C5-C6	6.12	120.06	117.00
1	AA	2164	DA	C4-C5-C6	6.12	120.06	117.00
1	AA	2202	DA	C4-C5-C6	6.12	120.06	117.00
1	AA	3227	DA	C5-C6-N6	-6.12	118.81	123.70
1	AA	5017	DA	C5-C6-N6	-6.12	118.81	123.70
1	AA	5209	DC	N3-C4-N4	6.12	122.28	118.00
1	AA	5827	DC	O4'-C1'-C2'	-6.12	101.00	105.90
1	AA	6054	DA	C4-C5-C6	6.12	120.06	117.00
1	AA	6953	DA	C4-C5-C6	6.12	120.06	117.00
39	Af	43	DA	C4-C5-C6	6.12	120.06	117.00
74	BJ	30	DT	P-O3'-C3'	6.12	127.04	119.70
149	Cg	30	DA	C4-C5-C6	6.12	120.06	117.00
1	AA	4269	DA	C4-C5-C6	6.12	120.06	117.00
72	BH	26	DA	C5-C6-N6	-6.12	118.81	123.70
90	BZ	58	DA	C5-C6-N6	-6.12	118.81	123.70
1	AA	101	DC	O4'-C1'-N1	6.12	112.28	108.00
1	AA	2351	DA	C5-C6-N6	-6.12	118.81	123.70
1	AA	5217	DC	N3-C4-N4	6.12	122.28	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6433	DC	N3-C4-N4	6.12	122.28	118.00
1	AA	6715	DA	C4-C5-C6	6.12	120.06	117.00
1	AA	7002	DA	C5-C6-N6	-6.12	118.81	123.70
20	AK	31	DC	N3-C4-N4	6.12	122.28	118.00
32	AW	50	DA	C4-C5-C6	6.12	120.06	117.00
39	Af	14	DG	O4'-C1'-C2'	-6.12	101.01	105.90
53	Ax	26	DA	C4-C5-C6	6.12	120.06	117.00
1	AA	1022	DA	C4-C5-C6	6.11	120.06	117.00
1	AA	2037	DA	C5-C6-N6	-6.11	118.81	123.70
1	AA	2458	DA	C4-C5-C6	6.11	120.06	117.00
1	AA	3676	DA	C4-C5-C6	6.11	120.06	117.00
1	AA	5019	DA	C5-C6-N6	-6.11	118.81	123.70
1	AA	5401	DA	C5-C6-N6	-6.11	118.81	123.70
12	AC	2	DA	O4'-C1'-N9	6.11	112.28	108.00
33	AX	11	DC	N3-C4-N4	6.11	122.28	118.00
114	C4	47	DA	C4-C5-C6	6.11	120.06	117.00
129	CL	15	DA	O4'-C4'-C3'	-6.11	102.06	104.50
135	CR	36	DA	C4-C5-C6	6.11	120.06	117.00
144	Cb	36	DA	C5-C6-N1	-6.11	114.64	117.70
147	Ce	25	DT	O4'-C1'-C2'	-6.11	101.01	105.90
160	Cx	45	DA	C5-C6-N6	-6.11	118.81	123.70
161	Cy	27	DA	C5-C6-N1	-6.11	114.64	117.70
20	AK	45	DC	N3-C4-N4	6.11	122.28	118.00
1	AA	1669	DA	C4-C5-C6	6.11	120.06	117.00
1	AA	1992	DA	C4-C5-C6	6.11	120.06	117.00
1	AA	6020	DC	N3-C4-N4	6.11	122.28	118.00
56	B0	19	DC	O4'-C1'-N1	6.11	112.28	108.00
108	Br	44	DC	N3-C4-N4	6.11	122.28	118.00
137	CT	18	DG	C5-C6-O6	-6.11	124.93	128.60
44	Ak	32	DA	C5-C6-N6	-6.11	118.81	123.70
136	CS	35	DG	O4'-C1'-N9	6.11	112.28	108.00
141	CX	19	DA	C4-C5-C6	6.11	120.05	117.00
1	AA	153	DT	O4'-C4'-C3'	-6.11	102.06	104.50
1	AA	1708	DA	C4-C5-C6	6.11	120.05	117.00
1	AA	2670	DA	C5-C6-N6	-6.11	118.81	123.70
1	AA	3862	DC	O4'-C1'-C2'	-6.11	101.01	105.90
1	AA	4339	DC	N3-C4-N4	6.11	122.28	118.00
1	AA	5045	DA	C4-C5-C6	6.11	120.05	117.00
1	AA	6159	DA	C4-C5-C6	6.11	120.05	117.00
43	Aj	18	DA	C4-C5-C6	6.11	120.05	117.00
44	Ak	16	DA	C4-C5-C6	6.11	120.05	117.00
67	BC	28	DA	C4-C5-C6	6.11	120.05	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
73	BI	37	DA	C4-C5-C6	6.11	120.05	117.00
87	BW	8	DA	C4-C5-C6	6.11	120.05	117.00
88	BX	16	DA	C4-C5-C6	6.11	120.05	117.00
92	Bb	40	DA	C4-C5-C6	6.11	120.05	117.00
123	CF	3	DA	C4-C5-C6	6.11	120.05	117.00
141	CX	13	DC	C4'-C3'-C2'	-6.11	97.60	103.10
1	AA	379	DA	C4-C5-C6	6.11	120.05	117.00
1	AA	959	DA	C5-C6-N6	-6.11	118.81	123.70
1	AA	1338	DA	C5-C6-N6	-6.11	118.82	123.70
1	AA	1874	DA	C4-C5-C6	6.11	120.05	117.00
1	AA	2801	DA	C5-C6-N6	-6.11	118.82	123.70
1	AA	3343	DA	C1'-O4'-C4'	-6.11	104.00	110.10
1	AA	3343	DA	O4'-C1'-C2'	-6.11	101.02	105.90
1	AA	5293	DA	C4-C5-C6	6.11	120.05	117.00
1	AA	6680	DA	C4-C5-C6	6.11	120.05	117.00
9	A7	27	DC	N3-C4-N4	6.11	122.27	118.00
30	AU	18	DA	C4-C5-C6	6.11	120.05	117.00
65	B9	15	DG	P-O3'-C3'	6.11	127.03	119.70
113	C3	26	DT	O4'-C1'-N1	6.11	112.28	108.00
120	CC	42	DA	C5-C6-N1	-6.11	114.65	117.70
156	Ct	26	DA	C4-C5-C6	6.11	120.05	117.00
1	AA	2589	DA	C4-C5-C6	6.10	120.05	117.00
1	AA	4043	DC	N3-C4-N4	6.10	122.27	118.00
62	B6	6	DA	C4-C5-C6	6.10	120.05	117.00
62	B6	31	DA	P-O3'-C3'	6.10	127.03	119.70
75	BK	9	DA	C4-C5-C6	6.10	120.05	117.00
1	AA	2961	DG	O4'-C1'-C2'	-6.10	101.02	105.90
1	AA	4367	DA	C5-C6-N6	-6.10	118.82	123.70
1	AA	4819	DA	C5-C6-N6	-6.10	118.82	123.70
57	B1	52	DA	C4-C5-C6	6.10	120.05	117.00
85	BU	38	DA	C5-C6-N6	-6.10	118.82	123.70
99	Bi	37	DA	C5-C6-N1	-6.10	114.65	117.70
101	Bk	21	DA	C4-C5-C6	6.10	120.05	117.00
117	C7	16	DA	C4-C5-C6	6.10	120.05	117.00
133	CP	34	DC	N3-C4-N4	6.10	122.27	118.00
149	Cg	3	DA	C5-C6-N6	-6.10	118.82	123.70
1	AA	5097	DA	C4-C5-C6	6.10	120.05	117.00
17	AH	25	DT	O4'-C1'-C2'	-6.10	101.02	105.90
20	AK	42	DC	N3-C4-C5	-6.10	119.46	121.90
39	Af	25	DG	P-O3'-C3'	6.10	127.02	119.70
90	BZ	64	DC	O4'-C1'-N1	6.10	112.27	108.00
99	Bi	1	DA	C5-C6-N6	-6.10	118.82	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1703	DA	C4-C5-C6	6.10	120.05	117.00
1	AA	3324	DA	C4-C5-C6	6.10	120.05	117.00
1	AA	4809	DA	C5-C6-N1	-6.10	114.65	117.70
1	AA	6523	DA	C5-C6-N6	-6.10	118.82	123.70
1	AA	6975	DA	C4-C5-C6	6.10	120.05	117.00
10	A8	19	DA	C4-C5-C6	6.10	120.05	117.00
19	AJ	42	DA	C4-C5-C6	6.10	120.05	117.00
24	AO	17	DA	C5-C6-N6	-6.10	118.82	123.70
69	BE	14	DA	C5-C6-N6	-6.10	118.82	123.70
84	BT	7	DC	P-O3'-C3'	6.10	127.02	119.70
98	Bh	10	DG	C1'-O4'-C4'	-6.10	104.00	110.10
107	Bq	38	DA	C4-C5-C6	6.10	120.05	117.00
132	CO	39	DC	N3-C4-N4	6.10	122.27	118.00
159	Cw	43	DA	C4-C5-C6	6.10	120.05	117.00
1	AA	812	DA	C5-C6-N6	-6.10	118.82	123.70
1	AA	1184	DA	C4-C5-C6	6.10	120.05	117.00
1	AA	2393	DA	C4-C5-C6	6.10	120.05	117.00
1	AA	5123	DA	C4-C5-C6	6.10	120.05	117.00
1	AA	6488	DA	C5-C6-N6	-6.10	118.82	123.70
1	AA	6740	DA	C4-C5-C6	6.10	120.05	117.00
1	AA	7227	DG	P-O3'-C3'	6.10	127.02	119.70
46	Am	34	DA	C4-C5-C6	6.10	120.05	117.00
112	C2	44	DA	C4-C5-C6	6.10	120.05	117.00
116	C6	5	DA	C5-C6-N6	-6.10	118.82	123.70
121	CD	48	DA	C5-C6-N6	-6.10	118.82	123.70
137	CT	19	DA	C5-C6-N6	-6.10	118.82	123.70
143	CZ	48	DT	C1'-O4'-C4'	-6.10	104.00	110.10
147	Ce	19	DA	C4-C5-C6	6.10	120.05	117.00
160	Cx	31	DA	C5-C6-N6	-6.10	118.82	123.70
1	AA	1854	DA	C4-C5-C6	6.10	120.05	117.00
1	AA	2271	DA	C4-C5-C6	6.10	120.05	117.00
1	AA	3752	DA	C4-C5-C6	6.10	120.05	117.00
58	B2	4	DA	C4-C5-C6	6.10	120.05	117.00
69	BE	3	DA	C4-C5-C6	6.10	120.05	117.00
104	Bn	45	DG	P-O3'-C3'	6.10	127.02	119.70
139	CV	9	DA	C5-C6-N6	-6.10	118.82	123.70
160	Cx	45	DA	C4-C5-C6	6.10	120.05	117.00
161	Cy	59	DA	C5-C6-N1	-6.10	114.65	117.70
1	AA	533	DA	C4-C5-C6	6.09	120.05	117.00
1	AA	1301	DC	N3-C4-C5	-6.09	119.46	121.90
1	AA	1310	DC	N3-C4-N4	6.09	122.27	118.00
1	AA	1363	DA	C5-C6-N6	-6.09	118.82	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2357	DA	C4-C5-C6	6.09	120.05	117.00
1	AA	3591	DA	C4-C5-C6	6.09	120.05	117.00
1	AA	4930	DA	C4-C5-C6	6.09	120.05	117.00
1	AA	5302	DA	C5-C6-N6	-6.09	118.83	123.70
1	AA	6628	DA	C5-C6-N6	-6.09	118.82	123.70
1	AA	6727	DA	O4'-C1'-N9	6.09	112.27	108.00
1	AA	7052	DA	C4-C5-C6	6.09	120.05	117.00
1	AA	7177	DA	C4-C5-C6	6.09	120.05	117.00
10	A8	10	DA	C5-C6-N6	-6.09	118.82	123.70
57	B1	36	DA	C4-C5-C6	6.09	120.05	117.00
69	BE	63	DT	O4'-C1'-C2'	-6.09	101.02	105.90
77	BM	35	DA	C5-C6-N6	-6.09	118.82	123.70
79	BO	19	DA	C4-C5-C6	6.09	120.05	117.00
109	Bs	33	DA	C4-C5-C6	6.09	120.05	117.00
115	C5	1	DT	O4'-C1'-C2'	-6.09	101.03	105.90
123	CF	12	DA	C4-C5-C6	6.09	120.05	117.00
133	CP	5	DA	C4-C5-C6	6.09	120.05	117.00
145	Cc	42	DA	C4-C5-C6	6.09	120.05	117.00
154	Cr	26	DA	C4-C5-C6	6.09	120.05	117.00
160	Cx	46	DC	O4'-C1'-N1	6.09	112.27	108.00
1	AA	1035	DA	C5-C6-N6	-6.09	118.83	123.70
1	AA	6119	DA	C4-C5-C6	6.09	120.05	117.00
1	AA	6325	DA	C5-C6-N6	-6.09	118.83	123.70
3	A1	38	DA	C4-C5-C6	6.09	120.05	117.00
32	AW	7	DC	P-O3'-C3'	6.09	127.01	119.70
88	BX	18	DA	O4'-C1'-N9	6.09	112.27	108.00
153	Cq	16	DA	C4-C5-C6	6.09	120.05	117.00
1	AA	283	DC	C1'-O4'-C4'	-6.09	104.01	110.10
1	AA	785	DA	C4-C5-C6	6.09	120.05	117.00
1	AA	1995	DA	C5-C6-N6	-6.09	118.83	123.70
1	AA	2518	DC	O4'-C1'-C2'	-6.09	101.03	105.90
1	AA	3053	DA	C4-C5-C6	6.09	120.05	117.00
1	AA	3152	DA	C4-C5-C6	6.09	120.05	117.00
1	AA	3221	DA	P-O3'-C3'	6.09	127.01	119.70
1	AA	5924	DA	C4-C5-C6	6.09	120.05	117.00
1	AA	6684	DA	C4-C5-C6	6.09	120.05	117.00
2	A0	33	DA	C5-C6-N6	-6.09	118.83	123.70
11	AB	27	DA	C5-C6-N6	-6.09	118.83	123.70
26	AQ	41	DA	C5-C6-N6	-6.09	118.83	123.70
51	Av	6	DC	N3-C4-C5	-6.09	119.46	121.90
78	BN	57	DC	N3-C4-N4	6.09	122.26	118.00
96	Bf	41	DA	C4-C5-C6	6.09	120.05	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
139	CV	13	DA	C5-C6-N6	-6.09	118.83	123.70
139	CV	28	DA	C5-C6-N6	-6.09	118.83	123.70
139	CV	49	DA	C5-C6-N6	-6.09	118.83	123.70
140	CW	20	DA	C4-C5-C6	6.09	120.05	117.00
140	CW	34	DA	C4-C5-C6	6.09	120.05	117.00
152	Cp	30	DC	N3-C4-C5	-6.09	119.46	121.90
162	Cz	36	DA	C4-C5-C6	6.09	120.05	117.00
1	AA	3	DA	C4-C5-C6	6.09	120.05	117.00
1	AA	805	DC	N3-C4-N4	6.09	122.26	118.00
1	AA	2724	DA	C5-C6-N6	-6.09	118.83	123.70
1	AA	2944	DA	C4-C5-C6	6.09	120.05	117.00
4	A2	28	DA	C4-C5-C6	6.09	120.05	117.00
6	A4	40	DC	O4'-C1'-C2'	-6.09	101.03	105.90
33	AX	45	DA	C5-C6-N6	-6.09	118.83	123.70
37	Ac	6	DA	C5-C6-N6	-6.09	118.83	123.70
43	Aj	36	DC	N3-C4-N4	6.09	122.26	118.00
52	Aw	39	DA	C4-C5-C6	6.09	120.04	117.00
75	BK	8	DA	C4-C5-C6	6.09	120.05	117.00
92	Bb	2	DC	N3-C4-N4	6.09	122.26	118.00
103	Bm	2	DA	C4-C5-C6	6.09	120.05	117.00
106	Bp	18	DG	C5-C6-O6	-6.09	124.95	128.60
128	CK	14	DC	N3-C4-N4	6.09	122.26	118.00
137	CT	9	DA	C4-C5-C6	6.09	120.05	117.00
149	Cg	44	DA	C4-C5-C6	6.09	120.05	117.00
157	Cu	13	DA	C4-C5-C6	6.09	120.04	117.00
1	AA	4000	DA	C4-C5-C6	6.09	120.04	117.00
111	C1	8	DA	C4-C5-C6	6.09	120.04	117.00
155	Cs	19	DC	N3-C4-N4	6.09	122.26	118.00
1	AA	668	DA	C4-C5-C6	6.09	120.04	117.00
1	AA	1056	DA	C4-C5-C6	6.09	120.04	117.00
1	AA	3561	DA	C4-C5-C6	6.09	120.04	117.00
1	AA	4191	DC	O4'-C1'-C2'	-6.09	101.03	105.90
1	AA	5267	DA	C4-C5-C6	6.09	120.04	117.00
1	AA	5971	DA	P-O5'-C5'	6.09	130.64	120.90
1	AA	6811	DA	C4-C5-C6	6.09	120.04	117.00
1	AA	6820	DA	C4-C5-C6	6.09	120.04	117.00
1	AA	7232	DC	P-O3'-C3'	6.09	127.00	119.70
14	AE	31	DA	C4-C5-C6	6.09	120.04	117.00
19	AJ	2	DA	O4'-C1'-N9	6.09	112.26	108.00
26	AQ	51	DA	O4'-C1'-N9	6.09	112.26	108.00
84	BT	24	DA	C5-C6-N6	-6.09	118.83	123.70
87	BW	14	DA	C4-C5-C6	6.09	120.04	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
116	C6	7	DA	C5-C6-N6	-6.09	118.83	123.70
118	C8	32	DA	C4-C5-C6	6.09	120.04	117.00
119	CB	23	DG	O4'-C4'-C3'	-6.09	102.06	104.50
147	Ce	16	DA	C4-C5-C6	6.09	120.04	117.00
1	AA	194	DA	C4-C5-C6	6.08	120.04	117.00
1	AA	503	DA	C5-C6-N6	-6.08	118.83	123.70
1	AA	1182	DT	O4'-C1'-C2'	-6.08	101.03	105.90
1	AA	1189	DA	C4-C5-C6	6.08	120.04	117.00
1	AA	2383	DC	N3-C4-N4	6.08	122.26	118.00
1	AA	2683	DC	N3-C4-N4	6.08	122.26	118.00
1	AA	6667	DA	C4-C5-C6	6.08	120.04	117.00
1	AA	6880	DA	C4-C5-C6	6.08	120.04	117.00
39	Af	11	DA	C4-C5-C6	6.08	120.04	117.00
67	BC	25	DA	C4-C5-C6	6.08	120.04	117.00
81	BQ	5	DA	C4-C5-C6	6.08	120.04	117.00
103	Bm	48	DA	C4-C5-C6	6.08	120.04	117.00
109	Bs	17	DA	C5-C6-N6	-6.08	118.83	123.70
117	C7	49	DA	C4-C5-C6	6.08	120.04	117.00
157	Cu	23	DA	C5-C6-N6	-6.08	118.83	123.70
1	AA	750	DA	C4-C5-C6	6.08	120.04	117.00
1	AA	2343	DA	C4-C5-C6	6.08	120.04	117.00
1	AA	2815	DC	N3-C4-N4	6.08	122.26	118.00
1	AA	3666	DA	C4-C5-C6	6.08	120.04	117.00
1	AA	4917	DA	C5-C6-N6	-6.08	118.83	123.70
1	AA	4983	DA	C4-C5-C6	6.08	120.04	117.00
1	AA	6116	DA	C4-C5-C6	6.08	120.04	117.00
1	AA	6852	DA	C4-C5-C6	6.08	120.04	117.00
3	A1	1	DA	C4-C5-C6	6.08	120.04	117.00
5	A3	34	DA	C4-C5-C6	6.08	120.04	117.00
16	AG	15	DA	C4-C5-C6	6.08	120.04	117.00
27	AR	48	DA	C5-C6-N6	-6.08	118.83	123.70
36	Ab	44	DA	C4-C5-C6	6.08	120.04	117.00
43	Aj	41	DC	N3-C4-N4	6.08	122.26	118.00
51	Av	2	DA	O4'-C1'-N9	6.08	112.26	108.00
59	B3	16	DA	C4-C5-C6	6.08	120.04	117.00
139	CV	51	DA	C4-C5-C6	6.08	120.04	117.00
1	AA	3173	DA	C4-C5-C6	6.08	120.04	117.00
1	AA	4333	DC	N3-C4-N4	6.08	122.26	118.00
1	AA	5430	DA	C5-C6-N6	-6.08	118.83	123.70
1	AA	6035	DA	C5-C6-N6	-6.08	118.83	123.70
1	AA	6048	DG	C3'-C2'-C1'	-6.08	95.20	102.50
1	AA	6068	DA	C5-C6-N1	-6.08	114.66	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6114	DA	C5-C6-N6	-6.08	118.83	123.70
9	A7	32	DA	C4-C5-C6	6.08	120.04	117.00
13	AD	30	DA	C4-C5-C6	6.08	120.04	117.00
39	Af	25	DG	O4'-C1'-N9	6.08	112.26	108.00
46	Am	36	DC	N3-C4-N4	6.08	122.26	118.00
82	BR	63	DA	C5-C6-N6	-6.08	118.83	123.70
92	Bb	4	DA	P-O3'-C3'	6.08	127.00	119.70
94	Bd	6	DA	C4-C5-C6	6.08	120.04	117.00
102	Bl	36	DA	C5-C6-N6	-6.08	118.83	123.70
104	Bn	16	DA	C4-C5-C6	6.08	120.04	117.00
107	Bq	24	DA	C4-C5-C6	6.08	120.04	117.00
138	CU	3	DA	C4-C5-C6	6.08	120.04	117.00
139	CV	18	DA	C5-C6-N6	-6.08	118.83	123.70
1	AA	3022	DC	N3-C4-N4	6.08	122.26	118.00
1	AA	5428	DA	C4-C5-C6	6.08	120.04	117.00
45	Al	10	DA	C4-C5-C6	6.08	120.04	117.00
118	C8	12	DA	C5-C6-N1	-6.08	114.66	117.70
139	CV	27	DA	C5-C6-N6	-6.08	118.84	123.70
156	Ct	42	DA	C5-C6-N6	-6.08	118.84	123.70
1	AA	768	DA	C4-C5-C6	6.08	120.04	117.00
1	AA	865	DC	N3-C4-N4	6.08	122.25	118.00
1	AA	1257	DA	C5-C6-N6	-6.08	118.84	123.70
1	AA	1811	DA	C5-C6-N6	-6.08	118.84	123.70
1	AA	3649	DA	C5-C6-N6	-6.08	118.84	123.70
1	AA	3835	DA	C4-C5-C6	6.08	120.04	117.00
1	AA	5326	DC	N3-C4-N4	6.08	122.25	118.00
1	AA	5407	DA	C5-C6-N6	-6.08	118.84	123.70
1	AA	6193	DA	C4-C5-C6	6.08	120.04	117.00
1	AA	6289	DC	N3-C4-N4	6.08	122.25	118.00
8	A6	16	DG	C4'-C3'-C2'	-6.08	97.63	103.10
42	Ai	13	DA	C4-C5-C6	6.08	120.04	117.00
59	B3	40	DA	C5-C6-N6	-6.08	118.84	123.70
60	B4	14	DG	P-O3'-C3'	6.08	126.99	119.70
92	Bb	4	DA	C4-C5-C6	6.08	120.04	117.00
100	Bj	35	DT	O4'-C1'-N1	6.08	112.25	108.00
109	Bs	10	DA	C5-C6-N6	-6.08	118.84	123.70
124	CG	5	DA	C4-C5-C6	6.08	120.04	117.00
133	CP	4	DA	C4-C5-C6	6.08	120.04	117.00
135	CR	36	DA	C5-C6-N6	-6.08	118.84	123.70
1	AA	2667	DA	C5-C6-N1	-6.08	114.66	117.70
1	AA	3925	DA	C4-C5-C6	6.08	120.04	117.00
1	AA	4025	DT	O4'-C1'-C2'	-6.08	101.04	105.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	4274	DA	C4-C5-C6	6.08	120.04	117.00
1	AA	4658	DA	C5-C6-N6	-6.08	118.84	123.70
1	AA	5260	DC	N3-C4-N4	6.08	122.25	118.00
1	AA	6144	DT	O4'-C1'-C2'	-6.08	101.04	105.90
36	Ab	36	DA	C5-C6-N6	-6.08	118.84	123.70
84	BT	49	DA	C4-C5-C6	6.08	120.04	117.00
127	CJ	56	DA	C4-C5-C6	6.08	120.04	117.00
131	CN	39	DA	C4-C5-C6	6.08	120.04	117.00
153	Cq	30	DA	C4-C5-C6	6.08	120.04	117.00
1	AA	2610	DC	N3-C4-N4	6.08	122.25	118.00
1	AA	3910	DC	N3-C4-N4	6.08	122.25	118.00
1	AA	4485	DC	N3-C4-N4	6.08	122.25	118.00
1	AA	5328	DA	C5-C6-N6	-6.08	118.84	123.70
1	AA	5807	DA	C4-C5-C6	6.08	120.04	117.00
1	AA	5829	DC	N3-C4-N4	6.08	122.25	118.00
1	AA	5918	DA	C4-C5-C6	6.08	120.04	117.00
4	A2	49	DA	O4'-C1'-C2'	-6.08	101.04	105.90
33	AX	38	DA	C4-C5-C6	6.08	120.04	117.00
57	B1	46	DA	C4-C5-C6	6.08	120.04	117.00
61	B5	39	DA	C4-C5-C6	6.08	120.04	117.00
71	BG	43	DA	C4-C5-C6	6.08	120.04	117.00
94	Bd	8	DG	P-O3'-C3'	6.08	126.99	119.70
118	C8	11	DC	N3-C4-N4	6.08	122.25	118.00
1	AA	27	DG	P-O3'-C3'	6.07	126.99	119.70
1	AA	1171	DC	N3-C4-N4	6.07	122.25	118.00
1	AA	2027	DA	C5-C6-N6	-6.07	118.84	123.70
1	AA	2423	DG	C1'-O4'-C4'	-6.07	104.03	110.10
1	AA	2791	DT	P-O3'-C3'	6.07	126.99	119.70
1	AA	3429	DA	C4-C5-C6	6.07	120.04	117.00
1	AA	5240	DC	N3-C4-N4	6.07	122.25	118.00
88	BX	35	DA	C4-C5-C6	6.07	120.04	117.00
104	Bn	54	DA	C5-C6-N6	-6.07	118.84	123.70
125	CH	41	DA	C4-C5-C6	6.07	120.04	117.00
1	AA	4642	DA	C4-C5-C6	6.07	120.04	117.00
1	AA	4947	DA	C5-C6-N6	-6.07	118.84	123.70
64	B8	12	DA	C4-C5-C6	6.07	120.04	117.00
70	BF	7	DA	C5-C6-N6	-6.07	118.84	123.70
116	C6	35	DA	C5-C6-N6	-6.07	118.84	123.70
1	AA	365	DA	C4-C5-C6	6.07	120.03	117.00
1	AA	459	DA	C4-C5-C6	6.07	120.04	117.00
1	AA	2657	DA	C4-C5-C6	6.07	120.04	117.00
1	AA	3756	DC	N3-C4-N4	6.07	122.25	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	4942	DA	C4-C5-C6	6.07	120.03	117.00
1	AA	5751	DA	C4-C5-C6	6.07	120.03	117.00
1	AA	5933	DA	C5-C6-N6	-6.07	118.84	123.70
1	AA	6548	DT	P-O3'-C3'	6.07	126.98	119.70
1	AA	7215	DA	C4-C5-C6	6.07	120.03	117.00
14	AE	29	DA	C4-C5-C6	6.07	120.03	117.00
33	AX	36	DC	N3-C4-N4	6.07	122.25	118.00
36	Ab	25	DG	O4'-C1'-N9	6.07	112.25	108.00
44	Ak	13	DA	C5-C6-N6	-6.07	118.84	123.70
67	BC	37	DA	C4-C5-C6	6.07	120.04	117.00
96	Bf	36	DA	O4'-C1'-N9	6.07	112.25	108.00
107	Bq	3	DG	C5-C6-O6	-6.07	124.96	128.60
157	Cu	8	DA	C5-C6-N6	-6.07	118.84	123.70
1	AA	76	DA	C4-C5-C6	6.07	120.03	117.00
1	AA	835	DC	N3-C4-N4	6.07	122.25	118.00
1	AA	2434	DA	C4-C5-C6	6.07	120.03	117.00
2	A0	46	DA	C4-C5-C6	6.07	120.03	117.00
7	A5	48	DA	C4-C5-C6	6.07	120.03	117.00
29	AT	47	DG	O4'-C1'-N9	6.07	112.25	108.00
100	Bj	37	DA	C4-C5-C6	6.07	120.03	117.00
138	CU	28	DA	C4-C5-C6	6.07	120.03	117.00
160	Cx	41	DA	C4-C5-C6	6.07	120.03	117.00
1	AA	1182	DT	C1'-O4'-C4'	-6.07	104.03	110.10
1	AA	1673	DA	C4-C5-C6	6.07	120.03	117.00
1	AA	2545	DT	P-O3'-C3'	6.07	126.98	119.70
1	AA	3084	DA	C5-C6-N6	-6.07	118.85	123.70
1	AA	3884	DA	C4-C5-C6	6.07	120.03	117.00
1	AA	4396	DA	C4-C5-C6	6.07	120.03	117.00
1	AA	5666	DA	C4-C5-C6	6.07	120.03	117.00
1	AA	6053	DC	N3-C4-N4	6.07	122.25	118.00
1	AA	6161	DA	P-O3'-C3'	6.07	126.98	119.70
1	AA	6495	DA	C4-C5-C6	6.07	120.03	117.00
5	A3	18	DC	N3-C4-N4	6.07	122.25	118.00
37	Ac	64	DA	C5-C6-N6	-6.07	118.85	123.70
47	An	15	DA	C5-C6-N6	-6.07	118.85	123.70
47	An	46	DA	C4-C5-C6	6.07	120.03	117.00
150	Ch	37	DA	C5-C6-N6	-6.07	118.85	123.70
160	Cx	43	DC	O4'-C1'-N1	6.07	112.25	108.00
1	AA	90	DC	O4'-C1'-N1	6.07	112.25	108.00
1	AA	2308	DC	O4'-C1'-N1	6.07	112.25	108.00
1	AA	2458	DA	C5-C6-N6	-6.07	118.85	123.70
1	AA	3107	DA	C4-C5-C6	6.07	120.03	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3431	DA	C4-C5-C6	6.07	120.03	117.00
1	AA	5859	DA	O4'-C1'-C2'	-6.07	101.05	105.90
1	AA	6425	DA	C5-C6-N6	-6.07	118.85	123.70
21	AL	27	DA	P-O3'-C3'	6.07	126.98	119.70
23	AN	43	DC	O4'-C1'-N1	6.07	112.25	108.00
35	AZ	40	DA	C4-C5-C6	6.07	120.03	117.00
36	Ab	42	DA	C4-C5-C6	6.07	120.03	117.00
59	B3	24	DG	O4'-C1'-C2'	-6.07	101.05	105.90
72	BH	17	DA	C4-C5-C6	6.07	120.03	117.00
72	BH	42	DA	C4-C5-C6	6.07	120.03	117.00
100	Bj	42	DA	C4-C5-C6	6.07	120.03	117.00
135	CR	31	DA	C4-C5-C6	6.07	120.03	117.00
1	AA	1117	DA	C1'-O4'-C4'	-6.06	104.04	110.10
1	AA	2931	DC	N3-C4-N4	6.06	122.25	118.00
1	AA	3505	DA	O4'-C1'-C2'	-6.06	101.05	105.90
1	AA	4508	DA	C4-C5-C6	6.06	120.03	117.00
1	AA	4710	DA	C4-C5-C6	6.06	120.03	117.00
1	AA	5439	DA	C5-C6-N6	-6.06	118.85	123.70
1	AA	6119	DA	C5-C6-N6	-6.06	118.85	123.70
31	AV	43	DA	C5-C6-N6	-6.06	118.85	123.70
1	AA	921	DA	C4-C5-C6	6.06	120.03	117.00
1	AA	1623	DA	C5-C6-N6	-6.06	118.85	123.70
1	AA	1800	DC	N3-C4-N4	6.06	122.24	118.00
1	AA	2505	DG	P-O3'-C3'	6.06	126.98	119.70
1	AA	3244	DA	C4-C5-C6	6.06	120.03	117.00
1	AA	5415	DA	C5-C6-N6	-6.06	118.85	123.70
1	AA	5698	DA	C5-C6-N6	-6.06	118.85	123.70
39	Af	20	DA	C4-C5-C6	6.06	120.03	117.00
49	As	18	DA	C4-C5-C6	6.06	120.03	117.00
69	BE	34	DA	C4-C5-C6	6.06	120.03	117.00
76	BL	29	DA	C5-C6-N6	-6.06	118.85	123.70
76	BL	32	DA	C4-C5-C6	6.06	120.03	117.00
88	BX	8	DA	C5-C6-N6	-6.06	118.85	123.70
88	BX	46	DA	C4-C5-C6	6.06	120.03	117.00
133	CP	11	DA	O4'-C4'-C3'	-6.06	102.08	104.50
133	CP	42	DA	C4-C5-C6	6.06	120.03	117.00
146	Cd	29	DA	P-O3'-C3'	6.06	126.97	119.70
159	Cw	3	DA	C4-C5-C6	6.06	120.03	117.00
1	AA	217	DA	C4-C5-C6	6.06	120.03	117.00
1	AA	3027	DA	C4-C5-C6	6.06	120.03	117.00
1	AA	4933	DA	C4-C5-C6	6.06	120.03	117.00
1	AA	6520	DA	C4-C5-C6	6.06	120.03	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	AE	41	DA	C4-C5-C6	6.06	120.03	117.00
20	AK	8	DA	C5-C6-N6	-6.06	118.85	123.70
69	BE	31	DA	C4-C5-C6	6.06	120.03	117.00
116	C6	7	DA	C4-C5-C6	6.06	120.03	117.00
1	AA	221	DC	P-O3'-C3'	6.06	126.97	119.70
1	AA	469	DA	C4-C5-C6	6.06	120.03	117.00
1	AA	482	DA	C4-C5-C6	6.06	120.03	117.00
1	AA	3189	DA	C5-C6-N6	-6.06	118.85	123.70
1	AA	3558	DA	C5-C6-N6	-6.06	118.85	123.70
1	AA	4078	DA	C4-C5-C6	6.06	120.03	117.00
1	AA	4347	DC	N3-C4-N4	6.06	122.24	118.00
1	AA	5233	DA	C4-C5-C6	6.06	120.03	117.00
1	AA	5482	DC	N3-C4-N4	6.06	122.24	118.00
1	AA	6788	DA	C4-C5-C6	6.06	120.03	117.00
1	AA	6890	DA	C4-C5-C6	6.06	120.03	117.00
1	AA	7058	DA	C4-C5-C6	6.06	120.03	117.00
24	AO	12	DC	O4'-C1'-N1	6.06	112.24	108.00
43	Aj	55	DA	C5-C6-N6	-6.06	118.85	123.70
53	Ax	18	DC	N3-C4-N4	6.06	122.24	118.00
68	BD	19	DA	C5-C6-N1	-6.06	114.67	117.70
68	BD	33	DA	C5-C6-N6	-6.06	118.85	123.70
98	Bh	5	DA	C4-C5-C6	6.06	120.03	117.00
101	Bk	59	DA	C5-C6-N6	-6.06	118.85	123.70
118	C8	40	DA	C5-C6-N6	-6.06	118.85	123.70
148	Cf	4	DA	C4-C5-C6	6.06	120.03	117.00
1	AA	958	DA	C4-C5-C6	6.06	120.03	117.00
1	AA	1347	DA	C4-C5-C6	6.06	120.03	117.00
1	AA	2350	DA	C4-C5-C6	6.06	120.03	117.00
1	AA	3057	DG	C5-C6-O6	-6.06	124.97	128.60
1	AA	3297	DA	P-O5'-C5'	6.06	130.59	120.90
1	AA	4492	DA	C4-C5-C6	6.06	120.03	117.00
1	AA	5341	DC	N3-C4-N4	6.06	122.24	118.00
1	AA	5489	DA	C5-C6-N6	-6.06	118.86	123.70
1	AA	5507	DA	C5-C6-N6	-6.06	118.86	123.70
1	AA	5559	DA	C4-C5-C6	6.06	120.03	117.00
1	AA	6080	DA	C4-C5-C6	6.06	120.03	117.00
1	AA	6495	DA	P-O3'-C3'	6.06	126.97	119.70
9	A7	42	DA	C5-C6-N1	-6.06	114.67	117.70
50	Au	7	DG	O4'-C1'-C2'	-6.06	101.05	105.90
81	BQ	9	DA	C5-C6-N6	-6.06	118.85	123.70
141	CX	42	DA	C4-C5-C6	6.06	120.03	117.00
1	AA	1712	DA	C5-C6-N6	-6.06	118.86	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2479	DA	C4-C5-C6	6.06	120.03	117.00
1	AA	5643	DA	C4-C5-C6	6.06	120.03	117.00
1	AA	5645	DA	C4-C5-C6	6.06	120.03	117.00
75	BK	10	DA	C4-C5-C6	6.06	120.03	117.00
81	BQ	44	DA	C4-C5-C6	6.06	120.03	117.00
99	Bi	47	DA	C4-C5-C6	6.06	120.03	117.00
122	CE	25	DA	C4-C5-C6	6.06	120.03	117.00
134	CQ	29	DA	C5-C6-N6	-6.06	118.86	123.70
1	AA	533	DA	C5-C6-N1	-6.05	114.67	117.70
1	AA	741	DC	N3-C4-N4	6.05	122.24	118.00
1	AA	1645	DA	C4-C5-C6	6.05	120.03	117.00
1	AA	1991	DA	C4-C5-C6	6.05	120.03	117.00
1	AA	2732	DA	C4-C5-C6	6.05	120.03	117.00
1	AA	4652	DA	C4-C5-C6	6.05	120.03	117.00
1	AA	4784	DA	C4-C5-C6	6.05	120.03	117.00
14	AE	26	DA	C4-C5-C6	6.05	120.03	117.00
54	Ay	31	DA	C4-C5-C6	6.05	120.03	117.00
96	Bf	34	DC	N3-C4-C5	-6.05	119.48	121.90
99	Bi	55	DA	C4-C5-C6	6.05	120.03	117.00
102	Bl	2	DA	C4-C5-C6	6.05	120.03	117.00
107	Bq	52	DA	C4-C5-C6	6.05	120.03	117.00
134	CQ	2	DA	C4-C5-C6	6.05	120.03	117.00
1	AA	2366	DA	C5-C6-N6	-6.05	118.86	123.70
1	AA	2473	DA	C5-C6-N6	-6.05	118.86	123.70
1	AA	2639	DA	C5-C6-N6	-6.05	118.86	123.70
1	AA	2999	DA	C4-C5-C6	6.05	120.03	117.00
1	AA	4121	DA	C5-C6-N6	-6.05	118.86	123.70
1	AA	4947	DA	C5-C6-N1	-6.05	114.67	117.70
1	AA	5985	DA	C4-C5-C6	6.05	120.03	117.00
1	AA	6327	DA	C4-C5-C6	6.05	120.03	117.00
7	A5	39	DT	O4'-C4'-C3'	-6.05	102.08	104.50
40	Ag	41	DA	C4-C5-C6	6.05	120.03	117.00
80	BP	37	DA	C4-C5-C6	6.05	120.03	117.00
93	Bc	4	DA	C4-C5-C6	6.05	120.03	117.00
1	AA	35	DC	N3-C4-N4	6.05	122.24	118.00
1	AA	1033	DA	C4-C5-C6	6.05	120.03	117.00
1	AA	1382	DA	C5-C6-N6	-6.05	118.86	123.70
1	AA	1472	DA	C4-C5-C6	6.05	120.03	117.00
1	AA	1576	DA	C4-C5-C6	6.05	120.03	117.00
1	AA	1779	DA	C5-C6-N6	-6.05	118.86	123.70
1	AA	2759	DA	C5-C6-N6	-6.05	118.86	123.70
1	AA	3255	DC	C1'-O4'-C4'	-6.05	104.05	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	4174	DA	C5-C6-N6	-6.05	118.86	123.70
1	AA	4238	DA	C5-C6-N6	-6.05	118.86	123.70
1	AA	5509	DA	C4-C5-C6	6.05	120.03	117.00
1	AA	5803	DA	C4-C5-C6	6.05	120.03	117.00
1	AA	5838	DA	P-O3'-C3'	6.05	126.96	119.70
43	Aj	37	DA	C4-C5-C6	6.05	120.03	117.00
58	B2	22	DA	C4-C5-C6	6.05	120.03	117.00
70	BF	7	DA	C4-C5-C6	6.05	120.03	117.00
79	BO	24	DA	C5-C6-N6	-6.05	118.86	123.70
85	BU	32	DA	C4-C5-C6	6.05	120.03	117.00
92	Bb	63	DC	P-O3'-C3'	6.05	126.96	119.70
98	Bh	44	DA	C4-C5-C6	6.05	120.03	117.00
102	Bl	41	DA	C5-C6-N6	-6.05	118.86	123.70
116	C6	16	DC	N3-C4-N4	6.05	122.24	118.00
124	CG	38	DA	C5-C6-N6	-6.05	118.86	123.70
127	CJ	29	DA	C4-C5-C6	6.05	120.03	117.00
129	CL	47	DA	C4-C5-C6	6.05	120.03	117.00
134	CQ	1	DA	C5-C6-N6	-6.05	118.86	123.70
1	AA	1520	DC	N3-C4-N4	6.05	122.23	118.00
1	AA	2242	DC	N3-C4-N4	6.05	122.23	118.00
1	AA	2400	DA	C4-C5-C6	6.05	120.02	117.00
1	AA	5770	DA	C5-C6-N6	-6.05	118.86	123.70
3	A1	29	DA	C4-C5-C6	6.05	120.03	117.00
7	A5	42	DC	N3-C4-N4	6.05	122.23	118.00
20	AK	1	DA	C5-C6-N6	-6.05	118.86	123.70
40	Ag	34	DA	C4-C5-C6	6.05	120.03	117.00
52	Aw	15	DA	O4'-C1'-C2'	-6.05	101.06	105.90
101	Bk	6	DA	C4-C5-C6	6.05	120.03	117.00
133	CP	52	DA	C4-C5-C6	6.05	120.03	117.00
134	CQ	14	DA	C4-C5-C6	6.05	120.03	117.00
138	CU	14	DA	C4-C5-C6	6.05	120.03	117.00
150	Ch	24	DG	O4'-C1'-N9	6.05	112.23	108.00
155	Cs	29	DA	C5-C6-N1	-6.05	114.67	117.70
156	Ct	36	DA	C4-C5-C6	6.05	120.02	117.00
1	AA	467	DA	C5-C6-N6	-6.05	118.86	123.70
1	AA	503	DA	C4-C5-C6	6.05	120.02	117.00
1	AA	612	DA	C5-C6-N6	-6.05	118.86	123.70
1	AA	3394	DA	C5-C6-N6	-6.05	118.86	123.70
1	AA	5369	DT	P-O3'-C3'	6.05	126.96	119.70
1	AA	6575	DA	C4-C5-C6	6.05	120.02	117.00
7	A5	9	DA	C4-C5-C6	6.05	120.02	117.00
19	AJ	19	DA	C4-C5-C6	6.05	120.02	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
36	Ab	32	DC	N3-C4-N4	6.05	122.23	118.00
78	BN	49	DA	C4-C5-C6	6.05	120.02	117.00
100	Bj	39	DA	C5-C6-N6	-6.05	118.86	123.70
1	AA	281	DA	C5-C6-N6	-6.05	118.86	123.70
1	AA	2123	DA	C5-C6-N6	-6.05	118.86	123.70
1	AA	2873	DC	O4'-C1'-C2'	-6.05	101.06	105.90
1	AA	5131	DA	C5-C6-N6	-6.05	118.86	123.70
1	AA	6779	DA	C4-C5-C6	6.05	120.02	117.00
28	AS	11	DA	O4'-C1'-N9	6.05	112.23	108.00
90	BZ	61	DA	C4-C5-C6	6.05	120.02	117.00
100	Bj	26	DA	C4-C5-C6	6.05	120.02	117.00
110	C0	2	DC	N3-C4-N4	6.05	122.23	118.00
119	CB	48	DA	C4-C5-C6	6.05	120.02	117.00
129	CL	44	DA	C5-C6-N6	-6.05	118.86	123.70
158	Cv	37	DA	C4-C5-C6	6.05	120.02	117.00
1	AA	5047	DA	C4-C5-C6	6.04	120.02	117.00
1	AA	6011	DA	C4-C5-C6	6.04	120.02	117.00
1	AA	6800	DA	C4-C5-C6	6.04	120.02	117.00
4	A2	40	DA	C5-C6-N6	-6.04	118.86	123.70
77	BM	42	DA	C4-C5-C6	6.04	120.02	117.00
86	BV	33	DA	C4-C5-C6	6.04	120.02	117.00
1	AA	176	DC	O4'-C1'-N1	6.04	112.23	108.00
1	AA	1412	DA	C5-C6-N6	-6.04	118.87	123.70
1	AA	1807	DC	O4'-C4'-C3'	-6.04	102.08	104.50
1	AA	1859	DA	C4-C5-C6	6.04	120.02	117.00
1	AA	2150	DA	C4-C5-C6	6.04	120.02	117.00
1	AA	2993	DA	C4-C5-C6	6.04	120.02	117.00
1	AA	3422	DC	N3-C4-N4	6.04	122.23	118.00
1	AA	3526	DA	C4-C5-C6	6.04	120.02	117.00
1	AA	4851	DA	C4-C5-C6	6.04	120.02	117.00
1	AA	6518	DA	C5-C6-N6	-6.04	118.86	123.70
1	AA	6993	DA	C4-C5-C6	6.04	120.02	117.00
1	AA	7047	DC	N3-C4-N4	6.04	122.23	118.00
7	A5	13	DA	C5-C6-N6	-6.04	118.86	123.70
9	A7	30	DC	O4'-C1'-C2'	-6.04	101.07	105.90
20	AK	36	DC	O4'-C1'-N1	6.04	112.23	108.00
24	AO	35	DA	C4-C5-C6	6.04	120.02	117.00
24	AO	46	DT	C1'-O4'-C4'	-6.04	104.06	110.10
26	AQ	31	DA	C5-C6-N6	-6.04	118.86	123.70
36	Ab	18	DA	C5-C6-N6	-6.04	118.86	123.70
49	As	28	DA	C5-C6-N6	-6.04	118.86	123.70
62	B6	36	DA	C5-C6-N6	-6.04	118.87	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
64	B8	3	DA	C5-C6-N6	-6.04	118.86	123.70
88	BX	42	DA	C4-C5-C6	6.04	120.02	117.00
93	Bc	17	DC	N3-C4-N4	6.04	122.23	118.00
99	Bi	60	DA	C4-C5-C6	6.04	120.02	117.00
109	Bs	13	DA	C4-C5-C6	6.04	120.02	117.00
110	C0	39	DA	C4-C5-C6	6.04	120.02	117.00
1	AA	1343	DA	C4-C5-C6	6.04	120.02	117.00
1	AA	1364	DA	C5-C6-N6	-6.04	118.87	123.70
1	AA	2442	DA	C5-C6-N6	-6.04	118.87	123.70
1	AA	4147	DA	C4-C5-C6	6.04	120.02	117.00
9	A7	47	DA	C4-C5-C6	6.04	120.02	117.00
18	AI	16	DA	C5-C6-N1	-6.04	114.68	117.70
51	Av	20	DA	C5-C6-N6	-6.04	118.87	123.70
82	BR	17	DA	C4-C5-C6	6.04	120.02	117.00
88	BX	7	DA	C4-C5-C6	6.04	120.02	117.00
108	Br	6	DA	C4-C5-C6	6.04	120.02	117.00
160	Cx	41	DA	O4'-C1'-N9	6.04	112.23	108.00
161	Cy	21	DA	C4-C5-C6	6.04	120.02	117.00
1	AA	373	DA	C4-C5-C6	6.04	120.02	117.00
1	AA	4779	DG	O4'-C4'-C3'	-6.04	102.08	104.50
18	AI	29	DA	C5-C6-N1	-6.04	114.68	117.70
105	Bo	64	DA	C4-C5-C6	6.04	120.02	117.00
138	CU	10	DA	C5-C6-N6	-6.04	118.87	123.70
145	Cc	3	DA	C5-C6-N6	-6.04	118.87	123.70
1	AA	98	DA	C4-C5-C6	6.04	120.02	117.00
1	AA	3690	DA	C4-C5-C6	6.04	120.02	117.00
1	AA	4430	DT	O4'-C1'-N1	6.04	112.23	108.00
1	AA	5604	DA	C4-C5-C6	6.04	120.02	117.00
1	AA	6004	DA	C4-C5-C6	6.04	120.02	117.00
1	AA	6652	DA	C4-C5-C6	6.04	120.02	117.00
12	AC	6	DA	C4-C5-C6	6.04	120.02	117.00
37	Ac	39	DA	C4-C5-C6	6.04	120.02	117.00
39	Af	19	DA	C4-C5-C6	6.04	120.02	117.00
62	B6	8	DA	C4-C5-C6	6.04	120.02	117.00
66	BB	12	DA	C4-C5-C6	6.04	120.02	117.00
81	BQ	13	DC	N3-C4-N4	6.04	122.23	118.00
122	CE	27	DA	C4-C5-C6	6.04	120.02	117.00
151	Ck	6	DA	C4-C5-C6	6.04	120.02	117.00
159	Cw	29	DC	P-O3'-C3'	6.04	126.95	119.70
1	AA	3096	DA	C4-C5-C6	6.04	120.02	117.00
1	AA	4145	DT	O4'-C1'-N1	6.04	112.23	108.00
1	AA	5095	DC	N3-C4-N4	6.04	122.23	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
18	AI	25	DA	C4-C5-C6	6.04	120.02	117.00
27	AR	54	DA	C5-C6-N1	-6.04	114.68	117.70
101	Bk	67	DT	O4'-C4'-C3'	-6.04	102.08	104.50
122	CE	7	DA	C4-C5-C6	6.04	120.02	117.00
125	CH	1	DA	C4-C5-C6	6.04	120.02	117.00
137	CT	12	DA	C5-C6-N1	-6.04	114.68	117.70
150	Ch	11	DA	C5-C6-N1	-6.04	114.68	117.70
1	AA	1125	DG	O4'-C1'-C2'	-6.04	101.07	105.90
1	AA	1730	DA	C4-C5-C6	6.04	120.02	117.00
1	AA	5262	DC	N3-C4-N4	6.04	122.22	118.00
1	AA	6229	DA	C5-C6-N6	-6.04	118.87	123.70
4	A2	10	DA	C4-C5-C6	6.04	120.02	117.00
9	A7	30	DC	O4'-C1'-N1	6.04	112.22	108.00
11	AB	16	DC	N3-C4-N4	6.04	122.22	118.00
11	AB	28	DC	O4'-C1'-C2'	-6.04	101.07	105.90
21	AL	40	DA	C4-C5-C6	6.04	120.02	117.00
28	AS	28	DC	O4'-C1'-N1	6.04	112.22	108.00
28	AS	45	DA	C4-C5-C6	6.04	120.02	117.00
44	Ak	24	DC	N3-C4-N4	6.04	122.22	118.00
52	Aw	12	DA	C4-C5-C6	6.04	120.02	117.00
66	BB	1	DA	C4-C5-C6	6.04	120.02	117.00
86	BV	7	DA	C4-C5-C6	6.04	120.02	117.00
92	Bb	40	DA	C5-C6-N6	-6.04	118.87	123.70
98	Bh	18	DA	C4-C5-C6	6.04	120.02	117.00
107	Bq	51	DA	C4-C5-C6	6.04	120.02	117.00
111	C1	5	DA	C4-C5-C6	6.04	120.02	117.00
127	CJ	4	DA	C4-C5-C6	6.04	120.02	117.00
140	CW	31	DT	O4'-C1'-C2'	-6.04	101.07	105.90
1	AA	283	DC	N3-C4-N4	6.03	122.22	118.00
1	AA	685	DA	C4-C5-C6	6.03	120.02	117.00
1	AA	1249	DA	C4-C5-C6	6.03	120.02	117.00
1	AA	2000	DA	C4-C5-C6	6.03	120.02	117.00
1	AA	4958	DC	N3-C4-N4	6.03	122.22	118.00
1	AA	5132	DA	C4-C5-C6	6.03	120.02	117.00
1	AA	5375	DA	C4-C5-C6	6.03	120.02	117.00
1	AA	6535	DA	O4'-C1'-N9	6.03	112.22	108.00
1	AA	6844	DA	C4-C5-C6	6.03	120.02	117.00
1	AA	7202	DC	O4'-C1'-C2'	-6.03	101.07	105.90
2	A0	34	DA	C4-C5-C6	6.03	120.02	117.00
2	A0	39	DC	N3-C4-N4	6.03	122.22	118.00
4	A2	38	DA	C4-C5-C6	6.03	120.02	117.00
5	A3	33	DA	C4-C5-C6	6.03	120.02	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	BC	25	DA	C5-C6-N6	-6.03	118.87	123.70
86	BV	3	DA	C4-C5-C6	6.03	120.02	117.00
105	Bo	27	DA	C4-C5-C6	6.03	120.02	117.00
133	CP	32	DA	C4-C5-C6	6.03	120.02	117.00
1	AA	916	DA	C4-C5-C6	6.03	120.02	117.00
1	AA	5132	DA	C5-C6-N6	-6.03	118.87	123.70
1	AA	5649	DA	C4-C5-C6	6.03	120.02	117.00
9	A7	31	DC	N3-C4-C5	-6.03	119.49	121.90
113	C3	29	DA	C4-C5-C6	6.03	120.02	117.00
1	AA	65	DA	C4-C5-C6	6.03	120.02	117.00
1	AA	665	DC	N3-C4-N4	6.03	122.22	118.00
1	AA	751	DA	C4-C5-C6	6.03	120.02	117.00
1	AA	1308	DA	C4-C5-C6	6.03	120.02	117.00
1	AA	1318	DA	C4-C5-C6	6.03	120.02	117.00
1	AA	2258	DA	C4-C5-C6	6.03	120.02	117.00
1	AA	2616	DA	C4-C5-C6	6.03	120.02	117.00
1	AA	4212	DC	N3-C4-N4	6.03	122.22	118.00
1	AA	4561	DA	C4-C5-C6	6.03	120.02	117.00
1	AA	5018	DA	C5-C6-N6	-6.03	118.88	123.70
1	AA	5073	DA	C4-C5-C6	6.03	120.02	117.00
1	AA	5257	DA	C5-C6-N6	-6.03	118.88	123.70
1	AA	6916	DA	C5-C6-N6	-6.03	118.88	123.70
3	A1	36	DA	C4-C5-C6	6.03	120.02	117.00
5	A3	12	DA	C5-C6-N1	-6.03	114.69	117.70
18	AI	37	DA	C5-C6-N1	-6.03	114.69	117.70
31	AV	32	DA	C5-C6-N6	-6.03	118.88	123.70
75	BK	27	DA	C5-C6-N6	-6.03	118.88	123.70
111	C1	9	DA	C4-C5-C6	6.03	120.02	117.00
112	C2	53	DA	C4-C5-C6	6.03	120.02	117.00
122	CE	3	DA	C5-C6-N6	-6.03	118.88	123.70
158	Cv	41	DC	N3-C4-N4	6.03	122.22	118.00
1	AA	1931	DA	C4-C5-C6	6.03	120.01	117.00
1	AA	2572	DA	C5-C6-N6	-6.03	118.88	123.70
2	A0	4	DA	C4-C5-C6	6.03	120.01	117.00
66	BB	25	DA	C4-C5-C6	6.03	120.01	117.00
103	Bm	16	DC	N3-C4-N4	6.03	122.22	118.00
118	C8	43	DA	C4-C5-C6	6.03	120.02	117.00
127	CJ	44	DC	N3-C4-N4	6.03	122.22	118.00
141	CX	29	DC	P-O3'-C3'	-6.03	112.47	119.70
145	Cc	44	DA	C4-C5-C6	6.03	120.02	117.00
1	AA	866	DA	C4-C5-C6	6.03	120.01	117.00
1	AA	1738	DC	N3-C4-N4	6.03	122.22	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5063	DA	C5-C6-N6	-6.03	118.88	123.70
1	AA	5627	DC	C1'-O4'-C4'	-6.03	104.07	110.10
30	AU	2	DA	C4-C5-C6	6.03	120.01	117.00
37	Ac	59	DA	C4-C5-C6	6.03	120.01	117.00
47	An	28	DC	O4'-C1'-C2'	-6.03	101.08	105.90
54	Ay	28	DA	C4-C5-C6	6.03	120.01	117.00
60	B4	12	DA	C4-C5-C6	6.03	120.01	117.00
73	BI	42	DA	C4-C5-C6	6.03	120.01	117.00
100	Bj	19	DT	O4'-C1'-N1	6.03	112.22	108.00
153	Cq	29	DA	C4-C5-C6	6.03	120.01	117.00
156	Ct	29	DA	C4-C5-C6	6.03	120.01	117.00
157	Cu	39	DA	C5-C6-N6	-6.03	118.88	123.70
1	AA	273	DA	C4-C5-C6	6.03	120.01	117.00
1	AA	274	DA	C5-C6-N6	-6.03	118.88	123.70
1	AA	1909	DA	C4-C5-C6	6.03	120.01	117.00
1	AA	3178	DC	N3-C4-N4	6.03	122.22	118.00
1	AA	4708	DA	C4-C5-C6	6.03	120.01	117.00
1	AA	4802	DA	C4-C5-C6	6.03	120.01	117.00
1	AA	5666	DA	C5-C6-N6	-6.03	118.88	123.70
1	AA	6428	DC	O4'-C1'-C2'	-6.03	101.08	105.90
1	AA	7242	DC	N3-C4-N4	6.03	122.22	118.00
6	A4	9	DA	C4-C5-C6	6.03	120.01	117.00
76	BL	46	DC	C6-N1-C2	-6.03	117.89	120.30
92	Bb	18	DA	C4-C5-C6	6.03	120.01	117.00
158	Cv	40	DA	C4-C5-C6	6.03	120.01	117.00
1	AA	2493	DA	C4-C5-C6	6.02	120.01	117.00
1	AA	3421	DA	C4-C5-C6	6.02	120.01	117.00
1	AA	4391	DC	N3-C4-N4	6.02	122.22	118.00
1	AA	6513	DA	C4-C5-C6	6.02	120.01	117.00
8	A6	6	DA	C4-C5-C6	6.02	120.01	117.00
19	AJ	32	DA	C5-C6-N6	-6.02	118.88	123.70
20	AK	22	DA	C5-C6-N6	-6.02	118.88	123.70
34	AY	4	DA	C4-C5-C6	6.02	120.01	117.00
47	An	18	DC	N3-C4-N4	6.02	122.22	118.00
50	Au	4	DG	P-O5'-C5'	6.02	130.54	120.90
68	BD	12	DA	C4-C5-C6	6.02	120.01	117.00
75	BK	2	DA	C4-C5-C6	6.02	120.01	117.00
98	Bh	33	DA	C4-C5-C6	6.02	120.01	117.00
161	Cy	21	DA	C5-C6-N6	-6.02	118.88	123.70
1	AA	462	DA	C4-C5-C6	6.02	120.01	117.00
1	AA	476	DA	C5-C6-N6	-6.02	118.88	123.70
1	AA	816	DA	C4-C5-C6	6.02	120.01	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2775	DA	C4-C5-C6	6.02	120.01	117.00
1	AA	3090	DA	C5-C6-N6	-6.02	118.88	123.70
1	AA	4255	DA	C5-C6-N6	-6.02	118.88	123.70
1	AA	4577	DG	O4'-C1'-C2'	-6.02	101.08	105.90
2	A0	29	DA	C1'-O4'-C4'	-6.02	104.08	110.10
8	A6	21	DA	C4-C5-C6	6.02	120.01	117.00
19	AJ	2	DA	C4-C5-C6	6.02	120.01	117.00
62	B6	41	DC	P-O3'-C3'	6.02	126.93	119.70
75	BK	18	DA	C4-C5-C6	6.02	120.01	117.00
83	BS	16	DA	C4-C5-C6	6.02	120.01	117.00
96	Bf	17	DA	C5-C6-N6	-6.02	118.88	123.70
97	Bg	6	DA	C4-C5-C6	6.02	120.01	117.00
144	Cb	10	DG	O4'-C1'-N9	6.02	112.22	108.00
150	Ch	9	DC	N3-C4-N4	6.02	122.22	118.00
157	Cu	7	DC	N3-C4-N4	6.02	122.22	118.00
1	AA	4370	DA	C4-C5-C6	6.02	120.01	117.00
1	AA	7117	DC	P-O3'-C3'	6.02	126.92	119.70
39	Af	31	DA	C5-C6-N6	-6.02	118.88	123.70
72	BH	23	DA	C4-C5-C6	6.02	120.01	117.00
1	AA	1445	DC	N3-C4-N4	6.02	122.21	118.00
1	AA	2084	DA	C4-C5-C6	6.02	120.01	117.00
1	AA	2775	DA	O4'-C1'-C2'	-6.02	101.08	105.90
1	AA	2907	DA	C5-C6-N6	-6.02	118.88	123.70
1	AA	3512	DT	O4'-C1'-N1	6.02	112.21	108.00
1	AA	3598	DA	C5-C6-N6	-6.02	118.88	123.70
1	AA	3617	DA	C4-C5-C6	6.02	120.01	117.00
1	AA	5007	DA	C4-C5-C6	6.02	120.01	117.00
1	AA	5211	DA	C5-C6-N6	-6.02	118.89	123.70
1	AA	7207	DA	C4-C5-C6	6.02	120.01	117.00
20	AK	48	DA	P-O5'-C5'	6.02	130.53	120.90
49	As	41	DA	C4-C5-C6	6.02	120.01	117.00
72	BH	18	DA	C4-C5-C6	6.02	120.01	117.00
85	BU	38	DA	C5-C6-N1	-6.02	114.69	117.70
136	CS	39	DA	C5-C6-N6	-6.02	118.89	123.70
137	CT	19	DA	C1'-O4'-C4'	-6.02	104.08	110.10
142	CY	17	DC	O4'-C1'-N1	6.02	112.21	108.00
159	Cw	26	DG	O4'-C1'-N9	6.02	112.21	108.00
1	AA	38	DC	N3-C4-N4	6.02	122.21	118.00
1	AA	1629	DA	C4-C5-C6	6.02	120.01	117.00
1	AA	1781	DA	C5-C6-N1	-6.02	114.69	117.70
1	AA	2422	DA	C5-C6-N6	-6.02	118.89	123.70
1	AA	2621	DA	C4-C5-C6	6.02	120.01	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2868	DC	N3-C4-N4	6.02	122.21	118.00
1	AA	3221	DA	C5-C6-N6	-6.02	118.89	123.70
1	AA	5668	DA	C4-C5-C6	6.02	120.01	117.00
1	AA	6281	DA	C4-C5-C6	6.02	120.01	117.00
1	AA	6783	DA	C4-C5-C6	6.02	120.01	117.00
1	AA	7075	DC	N3-C4-C5	-6.02	119.49	121.90
52	Aw	46	DA	C5-C6-N6	-6.02	118.89	123.70
90	BZ	5	DA	C4-C5-C6	6.02	120.01	117.00
96	Bf	34	DC	N3-C4-N4	6.02	122.21	118.00
112	C2	54	DA	O4'-C1'-C2'	-6.02	101.09	105.90
155	Cs	26	DA	C4-C5-C6	6.02	120.01	117.00
1	AA	1066	DA	C5-C6-N6	-6.02	118.89	123.70
1	AA	6359	DA	P-O3'-C3'	6.02	126.92	119.70
20	AK	34	DA	C4-C5-C6	6.02	120.01	117.00
36	Ab	12	DA	C4-C5-C6	6.02	120.01	117.00
55	Az	13	DA	C4-C5-C6	6.02	120.01	117.00
99	Bi	30	DC	N3-C4-N4	6.02	122.21	118.00
106	Bp	2	DA	P-O3'-C3'	6.02	126.92	119.70
144	Cb	36	DA	C4-C5-C6	6.02	120.01	117.00
161	Cy	27	DA	C4-C5-C6	6.02	120.01	117.00
1	AA	25	DA	C4-C5-C6	6.01	120.01	117.00
1	AA	444	DA	C4-C5-C6	6.01	120.01	117.00
1	AA	506	DT	O4'-C1'-N1	6.01	112.21	108.00
1	AA	1652	DA	C4-C5-C6	6.01	120.01	117.00
1	AA	1930	DA	C4-C5-C6	6.01	120.01	117.00
1	AA	2231	DA	C4-C5-C6	6.01	120.01	117.00
1	AA	6827	DA	C4-C5-C6	6.01	120.01	117.00
1	AA	7210	DA	C4-C5-C6	6.01	120.01	117.00
18	AI	32	DC	N3-C4-N4	6.01	122.21	118.00
49	As	8	DA	C5-C6-N6	-6.01	118.89	123.70
51	Av	13	DC	C4'-C3'-C2'	-6.01	97.69	103.10
68	BD	32	DA	C4-C5-C6	6.01	120.01	117.00
74	BJ	43	DA	C5-C6-N6	-6.01	118.89	123.70
76	BL	20	DA	C5-C6-N6	-6.01	118.89	123.70
90	BZ	60	DC	N3-C4-N4	6.01	122.21	118.00
94	Bd	54	DT	P-O3'-C3'	6.01	126.92	119.70
96	Bf	38	DA	C4-C5-C6	6.01	120.01	117.00
106	Bp	43	DA	C4-C5-C6	6.01	120.01	117.00
124	CG	12	DA	C4-C5-C6	6.01	120.01	117.00
131	CN	36	DA	C4-C5-C6	6.01	120.01	117.00
153	Cq	24	DA	C4-C5-C6	6.01	120.01	117.00
156	Ct	26	DA	C5-C6-N6	-6.01	118.89	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1098	DA	C5-C6-N6	-6.01	118.89	123.70
1	AA	1889	DC	N3-C4-N4	6.01	122.21	118.00
1	AA	3154	DC	N3-C4-N4	6.01	122.21	118.00
1	AA	5447	DA	C4-C5-C6	6.01	120.01	117.00
6	A4	39	DA	C4-C5-C6	6.01	120.01	117.00
40	Ag	9	DA	C5-C6-N1	-6.01	114.69	117.70
87	BW	34	DA	C4-C5-C6	6.01	120.01	117.00
89	BY	22	DA	C4-C5-C6	6.01	120.01	117.00
133	CP	41	DA	C4-C5-C6	6.01	120.01	117.00
142	CY	5	DA	C4-C5-C6	6.01	120.01	117.00
1	AA	501	DC	N3-C4-N4	6.01	122.21	118.00
1	AA	817	DC	N3-C4-N4	6.01	122.21	118.00
1	AA	2519	DA	C4-C5-C6	6.01	120.01	117.00
1	AA	4303	DA	C5-C6-N6	-6.01	118.89	123.70
1	AA	4707	DA	O4'-C1'-C2'	-6.01	101.09	105.90
1	AA	4891	DA	C4-C5-C6	6.01	120.01	117.00
1	AA	4995	DA	C4-C5-C6	6.01	120.00	117.00
1	AA	5295	DA	C5-C6-N1	-6.01	114.69	117.70
1	AA	5442	DA	C4-C5-C6	6.01	120.01	117.00
1	AA	5913	DA	C5-C6-N6	-6.01	118.89	123.70
1	AA	6751	DA	C4-C5-C6	6.01	120.00	117.00
11	AB	24	DA	C4-C5-C6	6.01	120.01	117.00
15	AF	34	DT	C1'-O4'-C4'	-6.01	104.09	110.10
30	AU	25	DA	C4-C5-C6	6.01	120.01	117.00
33	AX	48	DA	C5-C6-N6	-6.01	118.89	123.70
52	Aw	46	DA	C4-C5-C6	6.01	120.01	117.00
57	B1	56	DA	C4-C5-C6	6.01	120.00	117.00
61	B5	31	DC	N3-C4-N4	6.01	122.21	118.00
98	Bh	8	DA	C5-C6-N6	-6.01	118.89	123.70
120	CC	10	DA	C5-C6-N6	-6.01	118.89	123.70
120	CC	20	DA	C5-C6-N6	-6.01	118.89	123.70
144	Cb	24	DA	C5-C6-N6	-6.01	118.89	123.70
149	Cg	40	DA	C5-C6-N1	-6.01	114.69	117.70
1	AA	2085	DA	C4-C5-C6	6.01	120.00	117.00
1	AA	3649	DA	C4-C5-C6	6.01	120.00	117.00
1	AA	5414	DA	C4-C5-C6	6.01	120.00	117.00
1	AA	6199	DA	C4-C5-C6	6.01	120.00	117.00
1	AA	6688	DA	C4-C5-C6	6.01	120.00	117.00
4	A2	9	DA	C5-C6-N6	-6.01	118.89	123.70
15	AF	26	DA	C4-C5-C6	6.01	120.00	117.00
27	AR	14	DA	C4-C5-C6	6.01	120.00	117.00
33	AX	9	DA	C4-C5-C6	6.01	120.00	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	AZ	3	DG	O4'-C1'-N9	6.01	112.21	108.00
63	B7	29	DA	C4-C5-C6	6.01	120.00	117.00
72	BH	35	DA	C4-C5-C6	6.01	120.00	117.00
87	BW	8	DA	C5-C6-N6	-6.01	118.89	123.70
89	BY	29	DA	C4-C5-C6	6.01	120.00	117.00
112	C2	31	DA	C5-C6-N6	-6.01	118.89	123.70
117	C7	14	DC	O4'-C4'-C3'	-6.01	102.10	104.50
120	CC	30	DA	C5-C6-N6	-6.01	118.89	123.70
130	CM	54	DC	C1'-O4'-C4'	-6.01	104.09	110.10
148	Cf	11	DA	C4-C5-C6	6.01	120.00	117.00
151	Ck	7	DA	C5-C6-N6	-6.01	118.89	123.70
1	AA	818	DG	P-O3'-C3'	6.01	126.91	119.70
1	AA	1345	DA	C5-C6-N6	-6.01	118.89	123.70
1	AA	5301	DA	C5-C6-N6	-6.01	118.89	123.70
1	AA	5356	DC	N3-C4-N4	6.01	122.21	118.00
1	AA	5469	DG	P-O3'-C3'	6.01	126.91	119.70
1	AA	6552	DA	C4-C5-C6	6.01	120.00	117.00
1	AA	6727	DA	C5-C6-N6	-6.01	118.89	123.70
1	AA	6977	DA	C4-C5-C6	6.01	120.00	117.00
37	Ac	22	DA	C4-C5-C6	6.01	120.00	117.00
43	Aj	13	DC	N3-C4-N4	6.01	122.20	118.00
77	BM	35	DA	C1'-O4'-C4'	-6.01	104.09	110.10
135	CR	16	DA	C4-C5-C6	6.01	120.00	117.00
137	CT	12	DA	C4-C5-C6	6.01	120.00	117.00
1	AA	32	DA	C4-C5-C6	6.01	120.00	117.00
1	AA	135	DA	C4-C5-C6	6.01	120.00	117.00
1	AA	945	DA	C4-C5-C6	6.01	120.00	117.00
1	AA	1364	DA	C4-C5-C6	6.01	120.00	117.00
1	AA	2358	DA	C4-C5-C6	6.01	120.00	117.00
1	AA	2948	DA	C4-C5-C6	6.01	120.00	117.00
1	AA	3028	DA	C4-C5-C6	6.01	120.00	117.00
1	AA	3451	DA	C4-C5-C6	6.01	120.00	117.00
1	AA	4626	DA	C4-C5-C6	6.01	120.00	117.00
1	AA	5170	DT	P-O3'-C3'	6.01	126.91	119.70
1	AA	6218	DA	C4-C5-C6	6.01	120.00	117.00
1	AA	6325	DA	C4-C5-C6	6.01	120.00	117.00
1	AA	6439	DA	C5-C6-N6	-6.01	118.89	123.70
41	Ah	39	DA	C5-C6-N6	-6.01	118.89	123.70
47	An	42	DA	C4-C5-C6	6.01	120.00	117.00
57	B1	35	DA	C4-C5-C6	6.01	120.00	117.00
58	B2	12	DC	N3-C4-N4	6.01	122.20	118.00
59	B3	10	DA	C4-C5-C6	6.01	120.00	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
99	Bi	7	DA	C4-C5-C6	6.01	120.00	117.00
113	C3	30	DA	C5-C6-N6	-6.01	118.89	123.70
114	C4	22	DA	C5-C6-N6	-6.01	118.89	123.70
144	Cb	27	DA	O4'-C1'-N9	6.01	112.20	108.00
156	Ct	7	DC	N3-C4-N4	6.01	122.20	118.00
1	AA	134	DA	C4-C5-C6	6.00	120.00	117.00
1	AA	3921	DG	P-O3'-C3'	6.00	126.91	119.70
1	AA	4812	DA	C4-C5-C6	6.00	120.00	117.00
1	AA	5812	DA	C4-C5-C6	6.00	120.00	117.00
1	AA	6877	DA	P-O3'-C3'	6.00	126.91	119.70
100	Bj	2	DG	O4'-C1'-N9	6.00	112.20	108.00
116	C6	25	DA	C4-C5-C6	6.00	120.00	117.00
130	CM	32	DC	O4'-C1'-C2'	-6.00	101.10	105.90
137	CT	29	DC	N3-C4-N4	6.00	122.20	118.00
1	AA	590	DA	C4-C5-C6	6.00	120.00	117.00
1	AA	1443	DA	C5-C6-N6	-6.00	118.90	123.70
1	AA	1710	DA	C4-C5-C6	6.00	120.00	117.00
1	AA	2211	DA	C4-C5-C6	6.00	120.00	117.00
1	AA	2216	DG	O4'-C1'-C2'	-6.00	101.10	105.90
1	AA	3453	DA	C4-C5-C6	6.00	120.00	117.00
1	AA	3662	DA	C5-C6-N6	-6.00	118.90	123.70
1	AA	3977	DA	C4-C5-C6	6.00	120.00	117.00
1	AA	6140	DA	C4-C5-C6	6.00	120.00	117.00
1	AA	6671	DA	C4-C5-C6	6.00	120.00	117.00
1	AA	6976	DT	O4'-C1'-N1	6.00	112.20	108.00
8	A6	50	DA	C5-C6-N6	-6.00	118.90	123.70
16	AG	2	DA	C4-C5-C6	6.00	120.00	117.00
30	AU	44	DA	O4'-C1'-N9	6.00	112.20	108.00
45	Al	15	DA	C5-C6-N6	-6.00	118.90	123.70
84	BT	8	DA	C4-C5-C6	6.00	120.00	117.00
112	C2	4	DA	C4-C5-C6	6.00	120.00	117.00
123	CF	28	DA	C4-C5-C6	6.00	120.00	117.00
131	CN	5	DA	C4-C5-C6	6.00	120.00	117.00
143	CZ	19	DA	C4-C5-C6	6.00	120.00	117.00
156	Ct	28	DA	C4-C5-C6	6.00	120.00	117.00
1	AA	2861	DC	N3-C4-N4	6.00	122.20	118.00
1	AA	3543	DA	C5-C6-N6	-6.00	118.90	123.70
1	AA	4114	DA	C4-C5-C6	6.00	120.00	117.00
1	AA	5515	DA	C5-C6-N6	-6.00	118.90	123.70
1	AA	5755	DA	C4-C5-C6	6.00	120.00	117.00
1	AA	6435	DC	N3-C4-N4	6.00	122.20	118.00
5	A3	23	DA	C4-C5-C6	6.00	120.00	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	AP	5	DA	C4-C5-C6	6.00	120.00	117.00
30	AU	36	DA	C4-C5-C6	6.00	120.00	117.00
36	Ab	18	DA	C4-C5-C6	6.00	120.00	117.00
65	B9	24	DA	C4-C5-C6	6.00	120.00	117.00
65	B9	47	DA	C4-C5-C6	6.00	120.00	117.00
73	BI	23	DA	C4-C5-C6	6.00	120.00	117.00
81	BQ	40	DA	O4'-C4'-C3'	-6.00	102.10	104.50
132	CO	42	DA	C4-C5-C6	6.00	120.00	117.00
146	Cd	7	DA	C4-C5-C6	6.00	120.00	117.00
162	Cz	37	DA	C5-C6-N1	-6.00	114.70	117.70
162	Cz	42	DA	C4-C5-C6	6.00	120.00	117.00
1	AA	4863	DA	C4-C5-C6	6.00	120.00	117.00
1	AA	5798	DA	C5-C6-N1	-6.00	114.70	117.70
1	AA	6472	DG	O4'-C1'-C2'	-6.00	101.10	105.90
23	AN	4	DA	C4-C5-C6	6.00	120.00	117.00
69	BE	52	DA	C4-C5-C6	6.00	120.00	117.00
109	Bs	16	DA	C4-C5-C6	6.00	120.00	117.00
112	C2	54	DA	C5-C6-N6	-6.00	118.90	123.70
143	CZ	47	DA	C5-C6-N6	-6.00	118.90	123.70
1	AA	72	DA	C4-C5-C6	6.00	120.00	117.00
1	AA	2373	DA	C4-C5-C6	6.00	120.00	117.00
1	AA	3850	DA	C4-C5-C6	6.00	120.00	117.00
1	AA	4244	DA	C4-C5-C6	6.00	120.00	117.00
1	AA	6649	DA	C5-C6-N1	-6.00	114.70	117.70
1	AA	6900	DA	C4-C5-C6	6.00	120.00	117.00
10	A8	25	DA	C5-C6-N6	-6.00	118.90	123.70
12	AC	3	DA	C4-C5-C6	6.00	120.00	117.00
51	Av	3	DA	O4'-C1'-N9	6.00	112.20	108.00
66	BB	29	DA	C4-C5-C6	6.00	120.00	117.00
83	BS	47	DC	O4'-C4'-C3'	-6.00	102.10	104.50
104	Bn	54	DA	C4-C5-C6	6.00	120.00	117.00
106	Bp	25	DA	C4-C5-C6	6.00	120.00	117.00
124	CG	25	DT	O4'-C1'-C2'	-6.00	101.10	105.90
130	CM	23	DA	C4-C5-C6	6.00	120.00	117.00
137	CT	20	DA	C5-C6-N6	-6.00	118.90	123.70
139	CV	23	DA	C4-C5-C6	6.00	120.00	117.00
157	Cu	47	DA	C5-C6-N6	-6.00	118.90	123.70
1	AA	185	DC	N3-C4-N4	6.00	122.20	118.00
1	AA	969	DA	C4-C5-C6	6.00	120.00	117.00
1	AA	2086	DA	C5-C6-N6	-6.00	118.90	123.70
1	AA	2236	DA	C4-C5-C6	6.00	120.00	117.00
1	AA	4704	DA	C5-C6-N6	-6.00	118.90	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5942	DA	C4-C5-C6	6.00	120.00	117.00
6	A4	10	DA	C4-C5-C6	6.00	120.00	117.00
8	A6	45	DA	C4-C5-C6	6.00	120.00	117.00
22	AM	18	DA	C4-C5-C6	6.00	120.00	117.00
32	AW	13	DA	C4-C5-C6	6.00	120.00	117.00
78	BN	8	DA	C4-C5-C6	6.00	120.00	117.00
85	BU	10	DA	C4-C5-C6	6.00	120.00	117.00
123	CF	28	DA	C5-C6-N1	-6.00	114.70	117.70
139	CV	12	DA	C4-C5-C6	6.00	120.00	117.00
1	AA	1797	DA	C4-C5-C6	6.00	120.00	117.00
1	AA	2223	DT	P-O3'-C3'	6.00	126.89	119.70
1	AA	3344	DA	C4-C5-C6	6.00	120.00	117.00
1	AA	4301	DA	C4-C5-C6	6.00	120.00	117.00
3	A1	19	DA	C4-C5-C6	6.00	120.00	117.00
7	A5	2	DA	C4-C5-C6	6.00	120.00	117.00
12	AC	40	DA	C5-C6-N6	-6.00	118.90	123.70
155	Cs	12	DA	C5-C6-N6	-6.00	118.90	123.70
159	Cw	2	DA	C5-C6-N6	-6.00	118.90	123.70
1	AA	1035	DA	C4-C5-C6	5.99	120.00	117.00
1	AA	1868	DA	C4-C5-C6	5.99	120.00	117.00
1	AA	3261	DA	C4-C5-C6	5.99	120.00	117.00
1	AA	3761	DC	N3-C4-N4	5.99	122.19	118.00
1	AA	3945	DA	C4-C5-C6	5.99	120.00	117.00
1	AA	4204	DA	C4-C5-C6	5.99	120.00	117.00
4	A2	38	DA	C5-C6-N1	-5.99	114.70	117.70
5	A3	37	DG	C5-C6-O6	-5.99	125.00	128.60
32	AW	20	DC	N3-C4-N4	5.99	122.19	118.00
33	AX	4	DC	N3-C4-N4	5.99	122.19	118.00
69	BE	32	DA	C4-C5-C6	5.99	120.00	117.00
99	Bi	60	DA	C5-C6-N6	-5.99	118.91	123.70
115	C5	26	DA	C4-C5-C6	5.99	120.00	117.00
120	CC	24	DA	C5-C6-N6	-5.99	118.91	123.70
123	CF	39	DA	C4-C5-C6	5.99	120.00	117.00
128	CK	3	DA	C5-C6-N6	-5.99	118.91	123.70
131	CN	11	DA	C4-C5-C6	5.99	120.00	117.00
156	Ct	15	DA	C5-C6-N6	-5.99	118.91	123.70
1	AA	7168	DA	C4-C5-C6	5.99	120.00	117.00
2	A0	3	DA	C4-C5-C6	5.99	120.00	117.00
4	A2	31	DA	C5-C6-N6	-5.99	118.91	123.70
59	B3	43	DA	C5-C6-N6	-5.99	118.91	123.70
60	B4	29	DA	C4-C5-C6	5.99	120.00	117.00
82	BR	15	DA	C4-C5-C6	5.99	120.00	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
101	Bk	7	DA	C4-C5-C6	5.99	120.00	117.00
134	CQ	32	DA	C1'-O4'-C4'	-5.99	104.11	110.10
137	CT	6	DA	C5-C6-N6	-5.99	118.91	123.70
146	Cd	26	DA	C4-C5-C6	5.99	120.00	117.00
1	AA	1854	DA	C5-C6-N1	-5.99	114.70	117.70
1	AA	1930	DA	C5-C6-N6	-5.99	118.91	123.70
1	AA	2371	DA	C4-C5-C6	5.99	120.00	117.00
1	AA	3189	DA	C4-C5-C6	5.99	120.00	117.00
1	AA	3643	DA	C4-C5-C6	5.99	120.00	117.00
1	AA	3651	DA	C5-C6-N6	-5.99	118.91	123.70
1	AA	3988	DA	C4-C5-C6	5.99	120.00	117.00
1	AA	4367	DA	O4'-C4'-C3'	-5.99	102.10	104.50
1	AA	4714	DC	N3-C4-N4	5.99	122.19	118.00
1	AA	5171	DA	C4-C5-C6	5.99	120.00	117.00
1	AA	6320	DA	C4-C5-C6	5.99	120.00	117.00
1	AA	6432	DC	C1'-O4'-C4'	-5.99	104.11	110.10
1	AA	7206	DA	C5-C6-N6	-5.99	118.91	123.70
3	A1	18	DT	C1'-O4'-C4'	-5.99	104.11	110.10
5	A3	39	DA	C5-C6-N6	-5.99	118.91	123.70
26	AQ	55	DG	O4'-C1'-N9	5.99	112.19	108.00
48	Ao	27	DA	C5-C6-N6	-5.99	118.91	123.70
54	Ay	30	DA	C4-C5-C6	5.99	120.00	117.00
72	BH	41	DT	O4'-C1'-N1	5.99	112.19	108.00
87	BW	53	DA	C4-C5-C6	5.99	120.00	117.00
99	Bi	40	DT	P-O3'-C3'	5.99	126.89	119.70
108	Br	28	DA	C4-C5-C6	5.99	120.00	117.00
110	C0	29	DA	C4-C5-C6	5.99	120.00	117.00
114	C4	51	DA	C4-C5-C6	5.99	120.00	117.00
116	C6	13	DA	C4-C5-C6	5.99	120.00	117.00
121	CD	32	DA	C4-C5-C6	5.99	120.00	117.00
121	CD	45	DA	C4-C5-C6	5.99	120.00	117.00
126	CI	11	DA	C4-C5-C6	5.99	120.00	117.00
139	CV	21	DA	C4-C5-C6	5.99	120.00	117.00
1	AA	88	DA	C5-C6-N6	-5.99	118.91	123.70
1	AA	169	DA	C4-C5-C6	5.99	119.99	117.00
1	AA	272	DC	N3-C4-N4	5.99	122.19	118.00
1	AA	1332	DC	N3-C4-N4	5.99	122.19	118.00
1	AA	1797	DA	C5-C6-N1	-5.99	114.71	117.70
1	AA	2147	DA	C4-C5-C6	5.99	119.99	117.00
1	AA	2806	DA	C4-C5-C6	5.99	119.99	117.00
1	AA	3113	DA	C4-C5-C6	5.99	120.00	117.00
1	AA	3314	DA	C4-C5-C6	5.99	119.99	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3336	DA	C4-C5-C6	5.99	119.99	117.00
1	AA	4492	DA	C5-C6-N6	-5.99	118.91	123.70
1	AA	4777	DA	C5-C6-N6	-5.99	118.91	123.70
1	AA	5971	DA	C5-C6-N6	-5.99	118.91	123.70
1	AA	6650	DA	C4-C5-C6	5.99	119.99	117.00
2	A0	34	DA	C5-C6-N6	-5.99	118.91	123.70
37	Ac	19	DA	C4-C5-C6	5.99	120.00	117.00
85	BU	16	DA	C4-C5-C6	5.99	119.99	117.00
85	BU	38	DA	C4-C5-C6	5.99	119.99	117.00
102	Bl	32	DA	C4-C5-C6	5.99	119.99	117.00
116	C6	28	DA	C4-C5-C6	5.99	119.99	117.00
125	CH	18	DC	C1'-O4'-C4'	-5.99	104.11	110.10
136	CS	13	DA	C5-C6-N6	-5.99	118.91	123.70
149	Cg	2	DA	C4-C5-C6	5.99	119.99	117.00
160	Cx	35	DA	C4-C5-C6	5.99	119.99	117.00
161	Cy	30	DA	C4-C5-C6	5.99	119.99	117.00
1	AA	2338	DA	C4-C5-C6	5.99	119.99	117.00
1	AA	4992	DA	C4-C5-C6	5.99	119.99	117.00
1	AA	5590	DC	N3-C4-N4	5.99	122.19	118.00
1	AA	6210	DA	C4-C5-C6	5.99	119.99	117.00
75	BK	13	DA	C5-C6-N6	-5.99	118.91	123.70
90	BZ	28	DA	C4-C5-C6	5.99	119.99	117.00
109	Bs	40	DA	C5-C6-N6	-5.99	118.91	123.70
127	CJ	57	DA	O4'-C1'-C2'	-5.99	101.11	105.90
150	Ch	17	DC	N3-C4-N4	5.99	122.19	118.00
162	Cz	38	DC	N3-C4-N4	5.99	122.19	118.00
1	AA	151	DA	C4-C5-C6	5.99	119.99	117.00
1	AA	200	DT	O4'-C1'-N1	5.99	112.19	108.00
1	AA	1256	DA	C4-C5-C6	5.99	119.99	117.00
1	AA	1573	DA	C4-C5-C6	5.99	119.99	117.00
1	AA	2381	DA	C4-C5-C6	5.99	119.99	117.00
1	AA	2423	DG	O4'-C4'-C3'	-5.99	102.11	104.50
1	AA	4270	DA	C5-C6-N6	-5.99	118.91	123.70
1	AA	5563	DA	C4-C5-C6	5.99	119.99	117.00
1	AA	5714	DC	N3-C4-N4	5.99	122.19	118.00
1	AA	6979	DG	P-O3'-C3'	5.99	126.88	119.70
19	AJ	4	DA	C4-C5-C6	5.99	119.99	117.00
42	Ai	20	DA	C4-C5-C6	5.99	119.99	117.00
55	Az	35	DA	C4-C5-C6	5.99	119.99	117.00
84	BT	8	DA	C5-C6-N6	-5.99	118.91	123.70
112	C2	13	DA	C5-C6-N6	-5.99	118.91	123.70
146	Cd	18	DA	C4-C5-C6	5.99	119.99	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
148	Cf	41	DA	C5-C6-N6	-5.99	118.91	123.70
154	Cr	5	DA	C4-C5-C6	5.99	119.99	117.00
1	AA	1848	DA	C4-C5-C6	5.98	119.99	117.00
1	AA	2586	DA	C4-C5-C6	5.98	119.99	117.00
1	AA	4119	DC	N3-C4-N4	5.98	122.19	118.00
1	AA	7190	DC	N3-C4-N4	5.98	122.19	118.00
29	AT	26	DC	N3-C4-N4	5.98	122.19	118.00
29	AT	44	DG	O4'-C1'-N9	5.98	112.19	108.00
43	Aj	38	DA	C5-C6-N6	-5.98	118.91	123.70
113	C3	11	DA	C5-C6-N6	-5.98	118.91	123.70
120	CC	8	DA	C4-C5-C6	5.98	119.99	117.00
130	CM	53	DA	C4-C5-C6	5.98	119.99	117.00
1	AA	222	DA	C5-C6-N6	-5.98	118.91	123.70
1	AA	369	DA	C4-C5-C6	5.98	119.99	117.00
1	AA	708	DA	C5-C6-N6	-5.98	118.91	123.70
1	AA	1653	DA	C4-C5-C6	5.98	119.99	117.00
1	AA	1675	DA	C5-C6-N6	-5.98	118.91	123.70
1	AA	1866	DA	C5-C6-N6	-5.98	118.91	123.70
1	AA	1948	DC	P-O3'-C3'	5.98	126.88	119.70
1	AA	2239	DA	C4-C5-C6	5.98	119.99	117.00
1	AA	2530	DC	N3-C4-N4	5.98	122.19	118.00
1	AA	2548	DA	C4-C5-C6	5.98	119.99	117.00
1	AA	3012	DA	C5-C6-N6	-5.98	118.91	123.70
1	AA	4560	DA	C4-C5-C6	5.98	119.99	117.00
1	AA	5917	DG	P-O3'-C3'	5.98	126.88	119.70
1	AA	6308	DA	C4-C5-C6	5.98	119.99	117.00
1	AA	6323	DA	C5-C6-N6	-5.98	118.91	123.70
1	AA	7216	DT	O4'-C4'-C3'	-5.98	102.11	104.50
9	A7	8	DA	C5-C6-N6	-5.98	118.91	123.70
31	AV	5	DA	C5-C6-N6	-5.98	118.91	123.70
31	AV	52	DA	C5-C6-N6	-5.98	118.92	123.70
48	Ao	33	DC	N3-C4-N4	5.98	122.19	118.00
49	As	14	DA	C5-C6-N6	-5.98	118.91	123.70
50	Au	42	DA	C4-C5-C6	5.98	119.99	117.00
82	BR	19	DA	C4-C5-C6	5.98	119.99	117.00
94	Bd	18	DC	N3-C4-C5	-5.98	119.51	121.90
100	Bj	7	DA	C5-C6-N6	-5.98	118.91	123.70
114	C4	55	DA	C5-C6-N6	-5.98	118.91	123.70
135	CR	45	DA	C4-C5-C6	5.98	119.99	117.00
147	Ce	41	DA	C4-C5-C6	5.98	119.99	117.00
150	Ch	46	DC	N3-C4-N4	5.98	122.19	118.00
1	AA	114	DA	C5-C6-N6	-5.98	118.92	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	144	DA	C4-C5-C6	5.98	119.99	117.00
1	AA	254	DA	C4-C5-C6	5.98	119.99	117.00
1	AA	346	DA	C4-C5-C6	5.98	119.99	117.00
1	AA	3045	DA	C4-C5-C6	5.98	119.99	117.00
1	AA	3188	DA	C5-C6-N6	-5.98	118.92	123.70
1	AA	3938	DA	C4-C5-C6	5.98	119.99	117.00
1	AA	5612	DC	N3-C4-N4	5.98	122.19	118.00
1	AA	5676	DG	O4'-C1'-C2'	-5.98	101.12	105.90
1	AA	6222	DA	C4-C5-C6	5.98	119.99	117.00
1	AA	6805	DA	C5-C6-N6	-5.98	118.92	123.70
1	AA	7081	DA	C4-C5-C6	5.98	119.99	117.00
4	A2	48	DA	C4-C5-C6	5.98	119.99	117.00
15	AF	18	DA	C4-C5-C6	5.98	119.99	117.00
18	AI	23	DA	O4'-C1'-N9	5.98	112.19	108.00
18	AI	36	DA	C5-C6-N1	-5.98	114.71	117.70
45	Al	4	DA	O4'-C1'-N9	5.98	112.19	108.00
53	Ax	16	DA	C5-C6-N6	-5.98	118.92	123.70
69	BE	14	DA	C4-C5-C6	5.98	119.99	117.00
71	BG	3	DA	C1'-O4'-C4'	-5.98	104.12	110.10
78	BN	21	DA	C5-C6-N6	-5.98	118.92	123.70
93	Bc	3	DA	C4-C5-C6	5.98	119.99	117.00
114	C4	5	DA	C4-C5-C6	5.98	119.99	117.00
115	C5	2	DA	C4-C5-C6	5.98	119.99	117.00
116	C6	23	DA	C4-C5-C6	5.98	119.99	117.00
116	C6	24	DA	C5-C6-N6	-5.98	118.92	123.70
117	C7	46	DA	C5-C6-N1	-5.98	114.71	117.70
120	CC	34	DC	N3-C4-N4	5.98	122.19	118.00
136	CS	32	DA	C4-C5-C6	5.98	119.99	117.00
146	Cd	33	DA	C4-C5-C6	5.98	119.99	117.00
147	Ce	1	DC	O4'-C1'-N1	5.98	112.19	108.00
1	AA	592	DC	N3-C4-C5	-5.98	119.51	121.90
1	AA	2141	DA	C4-C5-C6	5.98	119.99	117.00
1	AA	2514	DC	N3-C4-N4	5.98	122.19	118.00
1	AA	6677	DA	C4-C5-C6	5.98	119.99	117.00
12	AC	24	DA	C4-C5-C6	5.98	119.99	117.00
64	B8	25	DA	C4-C5-C6	5.98	119.99	117.00
98	Bh	35	DG	C5-C6-O6	-5.98	125.01	128.60
113	C3	5	DA	C4-C5-C6	5.98	119.99	117.00
1	AA	2510	DA	C4-C5-C6	5.98	119.99	117.00
1	AA	2919	DA	C4-C5-C6	5.98	119.99	117.00
1	AA	3180	DC	N3-C4-N4	5.98	122.19	118.00
1	AA	3629	DC	N3-C4-N4	5.98	122.18	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3632	DT	O4'-C1'-N1	5.98	112.18	108.00
1	AA	4344	DA	C5-C6-N6	-5.98	118.92	123.70
1	AA	6817	DA	C4-C5-C6	5.98	119.99	117.00
1	AA	6876	DA	C4-C5-C6	5.98	119.99	117.00
2	A0	14	DA	C5-C6-N6	-5.98	118.92	123.70
5	A3	38	DC	O4'-C1'-N1	5.98	112.19	108.00
14	AE	39	DA	C4-C5-C6	5.98	119.99	117.00
25	AP	11	DA	C4-C5-C6	5.98	119.99	117.00
31	AV	17	DA	C5-C6-N6	-5.98	118.92	123.70
31	AV	19	DC	O4'-C1'-N1	5.98	112.18	108.00
35	AZ	23	DA	C4-C5-C6	5.98	119.99	117.00
68	BD	5	DA	C4-C5-C6	5.98	119.99	117.00
77	BM	35	DA	C4-C5-C6	5.98	119.99	117.00
86	BV	17	DC	N3-C4-N4	5.98	122.18	118.00
90	BZ	35	DA	C4-C5-C6	5.98	119.99	117.00
95	Be	39	DA	C4-C5-C6	5.98	119.99	117.00
101	Bk	24	DA	C4-C5-C6	5.98	119.99	117.00
105	Bo	35	DA	C4-C5-C6	5.98	119.99	117.00
124	CG	7	DA	C5-C6-N6	-5.98	118.92	123.70
141	CX	42	DA	C5-C6-N1	-5.98	114.71	117.70
159	Cw	21	DA	C4-C5-C6	5.98	119.99	117.00
80	BP	46	DA	C4-C5-C6	5.98	119.99	117.00
106	Bp	41	DA	C4-C5-C6	5.98	119.99	117.00
113	C3	41	DA	C4-C5-C6	5.98	119.99	117.00
116	C6	26	DA	C4-C5-C6	5.98	119.99	117.00
129	CL	27	DA	C5-C6-N6	-5.98	118.92	123.70
1	AA	192	DC	N3-C4-N4	5.97	122.18	118.00
1	AA	606	DA	C4-C5-C6	5.97	119.99	117.00
1	AA	2397	DA	C5-C6-N6	-5.97	118.92	123.70
1	AA	2495	DG	P-O3'-C3'	5.97	126.87	119.70
1	AA	2627	DA	C5-C6-N6	-5.97	118.92	123.70
1	AA	3572	DA	C5-C6-N6	-5.97	118.92	123.70
1	AA	4233	DA	C5-C6-N6	-5.97	118.92	123.70
1	AA	5549	DA	C4-C5-C6	5.97	119.99	117.00
1	AA	5797	DC	N3-C4-N4	5.97	122.18	118.00
1	AA	6290	DA	C5-C6-N6	-5.97	118.92	123.70
1	AA	6321	DC	O4'-C1'-C2'	-5.97	101.12	105.90
12	AC	2	DA	C5-C6-N6	-5.97	118.92	123.70
12	AC	28	DA	C4-C5-C6	5.97	119.99	117.00
36	Ab	38	DA	C5-C6-N6	-5.97	118.92	123.70
65	B9	11	DA	C4-C5-C6	5.97	119.99	117.00
73	BI	16	DA	C5-C6-N6	-5.97	118.92	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
75	BK	4	DA	C4-C5-C6	5.97	119.99	117.00
76	BL	29	DA	C4-C5-C6	5.97	119.99	117.00
120	CC	13	DC	N3-C4-N4	5.97	122.18	118.00
133	CP	16	DA	C4-C5-C6	5.97	119.99	117.00
1	AA	647	DC	N3-C4-N4	5.97	122.18	118.00
1	AA	962	DA	C4-C5-C6	5.97	119.99	117.00
1	AA	2569	DG	P-O3'-C3'	5.97	126.87	119.70
1	AA	4354	DA	C4-C5-C6	5.97	119.99	117.00
1	AA	6752	DA	C5-C6-N6	-5.97	118.92	123.70
1	AA	6994	DA	P-O3'-C3'	5.97	126.87	119.70
15	AF	15	DA	C4-C5-C6	5.97	119.99	117.00
51	Av	1	DG	O4'-C1'-N9	5.97	112.18	108.00
61	B5	29	DA	C4-C5-C6	5.97	119.99	117.00
72	BH	19	DC	N3-C4-N4	5.97	122.18	118.00
118	C8	31	DC	N3-C4-N4	5.97	122.18	118.00
161	Cy	65	DA	C5-C6-N6	-5.97	118.92	123.70
1	AA	468	DC	O4'-C1'-C2'	-5.97	101.12	105.90
1	AA	607	DA	C5-C6-N6	-5.97	118.92	123.70
1	AA	1860	DA	C4-C5-C6	5.97	119.98	117.00
1	AA	2056	DA	C5-C6-N6	-5.97	118.92	123.70
1	AA	6122	DA	C4-C5-C6	5.97	119.99	117.00
28	AS	61	DA	C5-C6-N6	-5.97	118.92	123.70
32	AW	48	DA	C4-C5-C6	5.97	119.98	117.00
43	Aj	11	DA	C4-C5-C6	5.97	119.99	117.00
49	As	47	DA	C4-C5-C6	5.97	119.98	117.00
89	BY	37	DA	C5-C6-N6	-5.97	118.92	123.70
1	AA	111	DA	C4-C5-C6	5.97	119.98	117.00
1	AA	543	DA	C4-C5-C6	5.97	119.98	117.00
1	AA	1528	DA	C5-C6-N6	-5.97	118.92	123.70
1	AA	1582	DA	C5-C6-N6	-5.97	118.92	123.70
1	AA	2068	DA	C4-C5-C6	5.97	119.98	117.00
1	AA	2255	DA	C4-C5-C6	5.97	119.98	117.00
1	AA	2593	DA	C4-C5-C6	5.97	119.98	117.00
1	AA	3616	DA	C4-C5-C6	5.97	119.98	117.00
1	AA	5016	DG	O4'-C4'-C3'	-5.97	102.11	104.50
1	AA	6538	DA	C4-C5-C6	5.97	119.98	117.00
12	AC	32	DA	C4-C5-C6	5.97	119.98	117.00
33	AX	22	DC	C4'-C3'-C2'	-5.97	97.73	103.10
57	B1	36	DA	C5-C6-N6	-5.97	118.92	123.70
83	BS	33	DA	C4-C5-C6	5.97	119.98	117.00
99	Bi	56	DA	C4-C5-C6	5.97	119.98	117.00
119	CB	38	DA	C4-C5-C6	5.97	119.98	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
128	CK	3	DA	C4-C5-C6	5.97	119.98	117.00
132	CO	4	DA	C5-C6-N1	-5.97	114.72	117.70
149	Cg	9	DA	C4-C5-C6	5.97	119.98	117.00
1	AA	2802	DA	C4-C5-C6	5.97	119.98	117.00
1	AA	3640	DA	C4-C5-C6	5.97	119.98	117.00
1	AA	6793	DA	C4-C5-C6	5.97	119.98	117.00
49	As	26	DA	C4-C5-C6	5.97	119.98	117.00
58	B2	7	DT	O4'-C4'-C3'	-5.97	102.11	104.50
98	Bh	7	DA	C4-C5-C6	5.97	119.98	117.00
1	AA	250	DA	C4-C5-C6	5.97	119.98	117.00
1	AA	1219	DA	C4-C5-C6	5.97	119.98	117.00
1	AA	2719	DA	C5-C6-N6	-5.97	118.93	123.70
1	AA	3112	DC	N3-C4-N4	5.97	122.18	118.00
1	AA	3965	DA	C4-C5-C6	5.97	119.98	117.00
1	AA	5021	DA	C4-C5-C6	5.97	119.98	117.00
1	AA	5482	DC	O4'-C1'-C2'	-5.97	101.13	105.90
1	AA	5699	DT	C1'-O4'-C4'	-5.97	104.13	110.10
1	AA	6225	DA	C4-C5-C6	5.97	119.98	117.00
8	A6	43	DA	C4-C5-C6	5.97	119.98	117.00
8	A6	50	DA	C4-C5-C6	5.97	119.98	117.00
16	AG	19	DA	C4-C5-C6	5.97	119.98	117.00
16	AG	30	DC	O4'-C1'-C2'	-5.97	101.13	105.90
18	AI	35	DA	C5-C6-N6	-5.97	118.93	123.70
25	AP	26	DG	C4'-C3'-C2'	-5.97	97.73	103.10
27	AR	27	DA	C4-C5-C6	5.97	119.98	117.00
28	AS	37	DA	C4-C5-C6	5.97	119.98	117.00
33	AX	34	DC	N3-C4-N4	5.97	122.18	118.00
35	AZ	37	DA	C4-C5-C6	5.97	119.98	117.00
39	Af	10	DA	C4-C5-C6	5.97	119.98	117.00
65	B9	6	DA	C5-C6-N6	-5.97	118.93	123.70
74	BJ	43	DA	C4-C5-C6	5.97	119.98	117.00
79	BO	14	DA	C4-C5-C6	5.97	119.98	117.00
81	BQ	9	DA	C4-C5-C6	5.97	119.98	117.00
83	BS	42	DA	C4-C5-C6	5.97	119.98	117.00
87	BW	17	DA	C4-C5-C6	5.97	119.98	117.00
87	BW	37	DA	C4-C5-C6	5.97	119.98	117.00
91	Ba	12	DA	C4-C5-C6	5.97	119.98	117.00
101	Bk	26	DA	C4-C5-C6	5.97	119.98	117.00
102	Bl	12	DA	C4-C5-C6	5.97	119.98	117.00
120	CC	30	DA	C4-C5-C6	5.97	119.98	117.00
120	CC	40	DA	C4-C5-C6	5.97	119.98	117.00
122	CE	25	DA	C5-C6-N6	-5.97	118.93	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
126	CI	32	DA	C5-C6-N6	-5.97	118.93	123.70
148	Cf	12	DA	C4-C5-C6	5.97	119.98	117.00
1	AA	526	DA	C4-C5-C6	5.96	119.98	117.00
1	AA	843	DA	C4-C5-C6	5.96	119.98	117.00
1	AA	927	DA	C4-C5-C6	5.96	119.98	117.00
1	AA	1134	DA	C4-C5-C6	5.96	119.98	117.00
1	AA	2966	DA	C5-C6-N6	-5.96	118.93	123.70
1	AA	5268	DA	C5-C6-N6	-5.96	118.93	123.70
1	AA	5819	DC	O4'-C1'-C2'	-5.96	101.13	105.90
1	AA	6360	DA	C5-C6-N6	-5.96	118.93	123.70
1	AA	6628	DA	C4-C5-C6	5.96	119.98	117.00
2	A0	37	DA	C4-C5-C6	5.96	119.98	117.00
19	AJ	43	DA	C4-C5-C6	5.96	119.98	117.00
88	BX	23	DA	P-O3'-C3'	5.96	126.86	119.70
94	Bd	23	DA	C4-C5-C6	5.96	119.98	117.00
99	Bi	8	DA	C4-C5-C6	5.96	119.98	117.00
103	Bm	39	DA	C4-C5-C6	5.96	119.98	117.00
123	CF	28	DA	P-O3'-C3'	5.96	126.86	119.70
132	CO	7	DC	N3-C4-N4	5.96	122.17	118.00
148	Cf	40	DA	C4-C5-C6	5.96	119.98	117.00
154	Cr	40	DC	N3-C4-N4	5.96	122.17	118.00
155	Cs	25	DA	C5-C6-N6	-5.96	118.93	123.70
1	AA	625	DA	C4-C5-C6	5.96	119.98	117.00
1	AA	2822	DA	C4-C5-C6	5.96	119.98	117.00
1	AA	5088	DG	O4'-C1'-N9	5.96	112.17	108.00
1	AA	5364	DT	C1'-O4'-C4'	-5.96	104.14	110.10
1	AA	6164	DA	C5-C6-N6	-5.96	118.93	123.70
1	AA	6758	DA	C4-C5-C6	5.96	119.98	117.00
1	AA	7249	DC	N3-C4-N4	5.96	122.17	118.00
79	BO	37	DA	C4-C5-C6	5.96	119.98	117.00
111	C1	11	DA	C4-C5-C6	5.96	119.98	117.00
130	CM	10	DA	C4-C5-C6	5.96	119.98	117.00
152	Cp	10	DA	C4-C5-C6	5.96	119.98	117.00
1	AA	54	DA	C4-C5-C6	5.96	119.98	117.00
1	AA	850	DC	N3-C4-N4	5.96	122.17	118.00
1	AA	1781	DA	C4-C5-C6	5.96	119.98	117.00
1	AA	3098	DA	C4-C5-C6	5.96	119.98	117.00
1	AA	3600	DA	C5-C6-N6	-5.96	118.93	123.70
1	AA	4041	DA	C4-C5-C6	5.96	119.98	117.00
1	AA	6061	DA	C5-C6-N6	-5.96	118.93	123.70
1	AA	6501	DA	C4-C5-C6	5.96	119.98	117.00
3	A1	25	DA	C4-C5-C6	5.96	119.98	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	A4	3	DA	C4-C5-C6	5.96	119.98	117.00
6	A4	27	DA	C4-C5-C6	5.96	119.98	117.00
23	AN	13	DA	C5-C6-N6	-5.96	118.93	123.70
30	AU	23	DC	N3-C4-N4	5.96	122.17	118.00
51	Av	36	DA	C4-C5-C6	5.96	119.98	117.00
64	B8	30	DA	C4-C5-C6	5.96	119.98	117.00
71	BG	29	DA	C4-C5-C6	5.96	119.98	117.00
81	BQ	17	DA	C4-C5-C6	5.96	119.98	117.00
83	BS	4	DC	N3-C4-N4	5.96	122.17	118.00
85	BU	50	DA	C5-C6-N6	-5.96	118.93	123.70
89	BY	24	DC	N3-C4-N4	5.96	122.17	118.00
102	Bl	7	DA	C4-C5-C6	5.96	119.98	117.00
104	Bn	51	DA	C4-C5-C6	5.96	119.98	117.00
109	Bs	8	DA	C5-C6-N6	-5.96	118.93	123.70
109	Bs	49	DA	C4-C5-C6	5.96	119.98	117.00
114	C4	13	DC	N3-C4-C5	-5.96	119.52	121.90
119	CB	22	DA	C4-C5-C6	5.96	119.98	117.00
131	CN	20	DT	P-O3'-C3'	5.96	126.85	119.70
143	CZ	5	DA	C4-C5-C6	5.96	119.98	117.00
145	Cc	35	DA	C5-C6-N6	-5.96	118.93	123.70
158	Cv	15	DT	O4'-C1'-C2'	-5.96	101.13	105.90
158	Cv	34	DA	C4-C5-C6	5.96	119.98	117.00
159	Cw	10	DA	C4-C5-C6	5.96	119.98	117.00
1	AA	497	DA	C5-C6-N6	-5.96	118.93	123.70
1	AA	4813	DA	C5-C6-N6	-5.96	118.93	123.70
1	AA	6406	DA	C5-C6-N1	-5.96	114.72	117.70
1	AA	6648	DA	C5-C6-N1	-5.96	114.72	117.70
21	AL	3	DA	C5-C6-N6	-5.96	118.93	123.70
46	Am	20	DC	N3-C4-N4	5.96	122.17	118.00
90	BZ	58	DA	C4-C5-C6	5.96	119.98	117.00
101	Bk	58	DA	C4-C5-C6	5.96	119.98	117.00
141	CX	25	DA	C4-C5-C6	5.96	119.98	117.00
1	AA	399	DA	C4-C5-C6	5.96	119.98	117.00
1	AA	611	DA	C4-C5-C6	5.96	119.98	117.00
1	AA	3523	DA	C4-C5-C6	5.96	119.98	117.00
1	AA	4240	DA	C4-C5-C6	5.96	119.98	117.00
1	AA	4353	DA	C5-C6-N6	-5.96	118.93	123.70
1	AA	5457	DA	O4'-C1'-C2'	-5.96	101.13	105.90
1	AA	5840	DC	N3-C4-N4	5.96	122.17	118.00
3	A1	34	DG	C4-N9-C1'	5.96	134.25	126.50
9	A7	10	DA	C5-C6-N6	-5.96	118.93	123.70
12	AC	13	DA	C4-C5-C6	5.96	119.98	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	AD	20	DA	C4-C5-C6	5.96	119.98	117.00
15	AF	3	DC	N3-C4-N4	5.96	122.17	118.00
44	Ak	4	DC	N3-C4-N4	5.96	122.17	118.00
71	BG	7	DA	C5-C6-N6	-5.96	118.93	123.70
116	C6	26	DA	C1'-O4'-C4'	-5.96	104.14	110.10
129	CL	46	DC	N3-C4-C5	-5.96	119.52	121.90
142	CY	42	DA	C4-C5-C6	5.96	119.98	117.00
158	Cv	3	DA	C4-C5-C6	5.96	119.98	117.00
159	Cw	33	DA	C4-C5-C6	5.96	119.98	117.00
1	AA	1412	DA	C4-C5-C6	5.96	119.98	117.00
1	AA	2281	DA	C4-C5-C6	5.96	119.98	117.00
1	AA	3190	DA	C5-C6-N6	-5.96	118.94	123.70
1	AA	3500	DC	N3-C4-N4	5.96	122.17	118.00
1	AA	3740	DA	C5-C6-N6	-5.96	118.94	123.70
1	AA	5088	DG	P-O3'-C3'	5.96	126.85	119.70
1	AA	6035	DA	C4-C5-C6	5.96	119.98	117.00
20	AK	30	DC	N3-C4-N4	5.96	122.17	118.00
33	AX	23	DA	C4-C5-C6	5.96	119.98	117.00
35	AZ	35	DA	C4-C5-C6	5.96	119.98	117.00
40	Ag	34	DA	C5-C6-N6	-5.96	118.94	123.70
45	Al	25	DC	N3-C4-N4	5.96	122.17	118.00
46	Am	47	DA	C4-C5-C6	5.96	119.98	117.00
78	BN	8	DA	C5-C6-N6	-5.96	118.94	123.70
111	C1	2	DA	C4-C5-C6	5.96	119.98	117.00
127	CJ	21	DA	C4-C5-C6	5.96	119.98	117.00
127	CJ	47	DA	P-O3'-C3'	5.96	126.85	119.70
128	CK	21	DA	C5-C6-N6	-5.96	118.93	123.70
135	CR	34	DC	N3-C4-C5	-5.96	119.52	121.90
137	CT	3	DT	O4'-C4'-C3'	-5.96	102.12	104.50
143	CZ	20	DA	C4-C5-C6	5.96	119.98	117.00
154	Cr	4	DA	C4-C5-C6	5.96	119.98	117.00
1	AA	181	DA	C4-C5-C6	5.96	119.98	117.00
1	AA	3003	DA	C5-C6-N6	-5.96	118.94	123.70
1	AA	3101	DA	C4-C5-C6	5.96	119.98	117.00
1	AA	6649	DA	C4-C5-C6	5.96	119.98	117.00
1	AA	7013	DA	C4-C5-C6	5.96	119.98	117.00
4	A2	25	DA	C4-C5-C6	5.96	119.98	117.00
33	AX	12	DA	C4-C5-C6	5.96	119.98	117.00
54	Ay	2	DA	C4-C5-C6	5.96	119.98	117.00
62	B6	42	DA	C4-C5-C6	5.96	119.98	117.00
70	BF	23	DT	P-O5'-C5'	-5.96	111.37	120.90
129	CL	32	DA	C4-C5-C6	5.96	119.98	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
148	Cf	12	DA	C5-C6-N6	-5.96	118.94	123.70
159	Cw	37	DG	P-O3'-C3'	5.96	126.85	119.70
1	AA	2042	DA	C4-C5-C6	5.95	119.98	117.00
1	AA	2152	DA	C4-C5-C6	5.95	119.98	117.00
1	AA	3151	DA	C4-C5-C6	5.95	119.98	117.00
1	AA	3162	DA	C5-C6-N1	-5.95	114.72	117.70
1	AA	3646	DA	C4-C5-C6	5.95	119.98	117.00
1	AA	4045	DA	C4-C5-C6	5.95	119.98	117.00
1	AA	4296	DC	N3-C4-N4	5.95	122.17	118.00
1	AA	5330	DA	C5-C6-N1	-5.95	114.72	117.70
1	AA	5532	DC	N3-C4-N4	5.95	122.17	118.00
1	AA	6113	DA	C5-C6-N6	-5.95	118.94	123.70
48	Ao	14	DA	C1'-O4'-C4'	-5.95	104.15	110.10
90	BZ	63	DA	P-O3'-C3'	5.95	126.84	119.70
115	C5	45	DT	P-O3'-C3'	5.95	126.84	119.70
119	CB	15	DA	C4-C5-C6	5.95	119.98	117.00
146	Cd	20	DA	C4-C5-C6	5.95	119.98	117.00
155	Cs	10	DA	C4-C5-C6	5.95	119.98	117.00
158	Cv	32	DA	C4-C5-C6	5.95	119.98	117.00
1	AA	3672	DA	C4-C5-C6	5.95	119.98	117.00
1	AA	4609	DT	O4'-C1'-C2'	-5.95	101.14	105.90
1	AA	5163	DA	C4-C5-C6	5.95	119.98	117.00
5	A3	32	DC	N3-C4-N4	5.95	122.17	118.00
65	B9	16	DA	C4-C5-C6	5.95	119.98	117.00
88	BX	40	DA	C4-C5-C6	5.95	119.98	117.00
134	CQ	38	DC	N3-C4-N4	5.95	122.17	118.00
1	AA	1137	DA	C4-C5-C6	5.95	119.97	117.00
1	AA	3021	DC	O4'-C1'-C2'	-5.95	101.14	105.90
1	AA	3379	DA	C4-C5-C6	5.95	119.97	117.00
1	AA	5108	DA	C4-C5-C6	5.95	119.97	117.00
1	AA	5819	DC	C1'-O4'-C4'	-5.95	104.15	110.10
1	AA	5962	DC	N3-C4-C5	-5.95	119.52	121.90
1	AA	6694	DA	P-O3'-C3'	5.95	126.84	119.70
13	AD	50	DA	C4-C5-C6	5.95	119.97	117.00
15	AF	5	DA	C4-C5-C6	5.95	119.98	117.00
16	AG	45	DA	C5-C6-N6	-5.95	118.94	123.70
26	AQ	55	DG	C5-C6-O6	-5.95	125.03	128.60
36	Ab	38	DA	C4-C5-C6	5.95	119.98	117.00
72	BH	2	DA	C4-C5-C6	5.95	119.97	117.00
86	BV	25	DA	C4-C5-C6	5.95	119.97	117.00
111	C1	45	DA	C4-C5-C6	5.95	119.97	117.00
117	C7	4	DA	C5-C6-N1	-5.95	114.72	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
131	CN	32	DA	C4-C5-C6	5.95	119.97	117.00
142	CY	26	DA	C5-C6-N6	-5.95	118.94	123.70
148	Cf	26	DA	C4-C5-C6	5.95	119.97	117.00
150	Ch	1	DA	C5-C6-N6	-5.95	118.94	123.70
152	Cp	22	DA	C5-C6-N6	-5.95	118.94	123.70
1	AA	329	DA	C4-C5-C6	5.95	119.97	117.00
1	AA	1585	DC	N3-C4-N4	5.95	122.16	118.00
1	AA	1808	DC	N3-C4-N4	5.95	122.16	118.00
1	AA	2877	DC	N3-C4-N4	5.95	122.16	118.00
1	AA	3162	DA	C5-C6-N6	-5.95	118.94	123.70
1	AA	3758	DA	C4-C5-C6	5.95	119.97	117.00
1	AA	4457	DA	C4-C5-C6	5.95	119.97	117.00
1	AA	4728	DA	C4-C5-C6	5.95	119.97	117.00
1	AA	4809	DA	C4-C5-C6	5.95	119.97	117.00
1	AA	5662	DA	C4-C5-C6	5.95	119.97	117.00
2	A0	6	DA	C4-C5-C6	5.95	119.97	117.00
4	A2	27	DA	C5-C6-N6	-5.95	118.94	123.70
7	A5	31	DC	O4'-C1'-N1	5.95	112.16	108.00
23	AN	21	DA	C4-C5-C6	5.95	119.97	117.00
78	BN	62	DG	O4'-C1'-N9	5.95	112.16	108.00
103	Bm	20	DA	C4-C5-C6	5.95	119.97	117.00
107	Bq	1	DA	C4-C5-C6	5.95	119.97	117.00
142	CY	18	DA	O4'-C1'-N9	5.95	112.16	108.00
143	CZ	13	DA	C4-C5-C6	5.95	119.97	117.00
157	Cu	15	DA	C4-C5-C6	5.95	119.97	117.00
1	AA	3322	DC	N3-C4-N4	5.95	122.16	118.00
1	AA	3573	DA	C4-C5-C6	5.95	119.97	117.00
1	AA	5189	DA	C4-C5-C6	5.95	119.97	117.00
1	AA	6023	DA	C4-C5-C6	5.95	119.97	117.00
1	AA	6742	DA	C4-C5-C6	5.95	119.97	117.00
1	AA	6766	DA	C4-C5-C6	5.95	119.97	117.00
35	AZ	18	DA	C5-C6-N6	-5.95	118.94	123.70
39	Af	15	DT	P-O3'-C3'	5.95	126.84	119.70
84	BT	17	DT	P-O3'-C3'	5.95	126.84	119.70
92	Bb	11	DC	N3-C4-N4	5.95	122.16	118.00
92	Bb	59	DA	C5-C6-N6	-5.95	118.94	123.70
115	C5	43	DA	C4-C5-C6	5.95	119.97	117.00
128	CK	5	DA	C4-C5-C6	5.95	119.97	117.00
130	CM	6	DA	C4-C5-C6	5.95	119.97	117.00
142	CY	41	DA	C5-C6-N6	-5.95	118.94	123.70
1	AA	370	DA	C4-C5-C6	5.95	119.97	117.00
1	AA	1740	DA	C4-C5-C6	5.95	119.97	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2719	DA	C4-C5-C6	5.95	119.97	117.00
1	AA	3754	DA	C4-C5-C6	5.95	119.97	117.00
1	AA	5359	DG	P-O3'-C3'	5.95	126.83	119.70
1	AA	5495	DA	C4-C5-C6	5.95	119.97	117.00
1	AA	5530	DA	C4-C5-C6	5.95	119.97	117.00
1	AA	6729	DT	P-O3'-C3'	5.95	126.83	119.70
1	AA	7243	DA	C5-C6-N6	-5.95	118.94	123.70
8	A6	10	DA	C4-C5-C6	5.95	119.97	117.00
8	A6	19	DC	N3-C4-N4	5.95	122.16	118.00
27	AR	13	DA	C4-C5-C6	5.95	119.97	117.00
39	Af	4	DC	N3-C4-N4	5.95	122.16	118.00
59	B3	13	DA	C5-C6-N6	-5.95	118.94	123.70
61	B5	38	DA	C4-C5-C6	5.95	119.97	117.00
74	BJ	41	DA	C5-C6-N6	-5.95	118.94	123.70
76	BL	46	DC	N3-C4-N4	5.95	122.16	118.00
109	Bs	10	DA	C4-C5-C6	5.95	119.97	117.00
123	CF	31	DA	C4-C5-C6	5.95	119.97	117.00
138	CU	4	DA	C4-C5-C6	5.95	119.97	117.00
155	Cs	35	DA	C5-C6-N6	-5.95	118.94	123.70
1	AA	548	DA	C4-C5-C6	5.94	119.97	117.00
1	AA	1763	DA	C4-C5-C6	5.94	119.97	117.00
1	AA	2682	DA	O4'-C1'-C2'	-5.94	101.14	105.90
27	AR	42	DA	C4-C5-C6	5.94	119.97	117.00
66	BB	20	DA	C4-C5-C6	5.94	119.97	117.00
74	BJ	51	DC	N3-C4-N4	5.94	122.16	118.00
142	CY	16	DA	C5-C6-N6	-5.94	118.94	123.70
1	AA	942	DA	C4-C5-C6	5.94	119.97	117.00
1	AA	2449	DA	C4-C5-C6	5.94	119.97	117.00
1	AA	2524	DA	C5-C6-N6	-5.94	118.94	123.70
1	AA	3193	DC	N3-C4-N4	5.94	122.16	118.00
1	AA	3278	DA	C4-C5-C6	5.94	119.97	117.00
1	AA	4970	DC	N3-C4-N4	5.94	122.16	118.00
1	AA	7058	DA	C5-C6-N1	-5.94	114.73	117.70
1	AA	7150	DA	C5-C6-N6	-5.94	118.95	123.70
8	A6	15	DA	C5-C6-N6	-5.94	118.95	123.70
11	AB	36	DA	C4-C5-C6	5.94	119.97	117.00
15	AF	2	DC	N3-C4-N4	5.94	122.16	118.00
35	AZ	9	DA	P-O3'-C3'	5.94	126.83	119.70
46	Am	11	DA	C4-C5-C6	5.94	119.97	117.00
82	BR	16	DA	C4-C5-C6	5.94	119.97	117.00
89	BY	28	DA	C5-C6-N6	-5.94	118.95	123.70
99	Bi	53	DC	N3-C4-N4	5.94	122.16	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
111	C1	30	DA	C5-C6-N6	-5.94	118.95	123.70
113	C3	30	DA	C4-C5-C6	5.94	119.97	117.00
115	C5	54	DA	C5-C6-N6	-5.94	118.95	123.70
141	CX	39	DA	C4-C5-C6	5.94	119.97	117.00
1	AA	392	DA	C4-C5-C6	5.94	119.97	117.00
1	AA	1022	DA	C5-C6-N6	-5.94	118.95	123.70
1	AA	1027	DA	C4-C5-C6	5.94	119.97	117.00
1	AA	1320	DA	C4-C5-C6	5.94	119.97	117.00
1	AA	2428	DA	C5-C6-N6	-5.94	118.95	123.70
1	AA	2563	DA	C4-C5-C6	5.94	119.97	117.00
1	AA	2838	DA	C4-C5-C6	5.94	119.97	117.00
1	AA	3367	DG	C1'-O4'-C4'	-5.94	104.16	110.10
1	AA	5411	DA	C5-C6-N6	-5.94	118.95	123.70
1	AA	5968	DA	C5-C6-N1	-5.94	114.73	117.70
1	AA	6425	DA	C4-C5-C6	5.94	119.97	117.00
1	AA	6714	DA	C4-C5-C6	5.94	119.97	117.00
1	AA	6913	DA	C4-C5-C6	5.94	119.97	117.00
6	A4	5	DA	C4-C5-C6	5.94	119.97	117.00
15	AF	16	DA	C4-C5-C6	5.94	119.97	117.00
21	AL	22	DA	C4-C5-C6	5.94	119.97	117.00
31	AV	43	DA	C4-C5-C6	5.94	119.97	117.00
43	Aj	18	DA	O4'-C1'-N9	5.94	112.16	108.00
71	BG	28	DA	C4-C5-C6	5.94	119.97	117.00
85	BU	15	DA	C5-C6-N6	-5.94	118.95	123.70
87	BW	20	DA	C4-C5-C6	5.94	119.97	117.00
103	Bm	26	DT	O4'-C4'-C3'	-5.94	102.12	104.50
108	Br	41	DA	C4-C5-C6	5.94	119.97	117.00
130	CM	31	DA	C5-C6-N6	-5.94	118.95	123.70
130	CM	37	DA	C4-C5-C6	5.94	119.97	117.00
152	Cp	17	DA	C4-C5-C6	5.94	119.97	117.00
154	Cr	40	DC	N3-C4-C5	-5.94	119.52	121.90
155	Cs	46	DA	C4-C5-C6	5.94	119.97	117.00
156	Ct	22	DA	C5-C6-N6	-5.94	118.95	123.70
157	Cu	38	DC	N3-C4-C5	-5.94	119.52	121.90
1	AA	485	DA	C4-C5-C6	5.94	119.97	117.00
1	AA	1069	DA	C1'-O4'-C4'	-5.94	104.16	110.10
1	AA	1322	DA	C4-C5-C6	5.94	119.97	117.00
1	AA	1624	DA	C5-C6-N6	-5.94	118.95	123.70
1	AA	3367	DG	O4'-C4'-C3'	-5.94	102.12	104.50
1	AA	3930	DA	C4-C5-C6	5.94	119.97	117.00
1	AA	4701	DA	C4-C5-C6	5.94	119.97	117.00
1	AA	5659	DA	C5-C6-N1	-5.94	114.73	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6022	DA	C5-C6-N6	-5.94	118.95	123.70
1	AA	6335	DA	C4-C5-C6	5.94	119.97	117.00
1	AA	6365	DA	C5-C6-N6	-5.94	118.95	123.70
4	A2	13	DA	C5-C6-N6	-5.94	118.95	123.70
15	AF	44	DA	C4-C5-C6	5.94	119.97	117.00
31	AV	18	DA	C5-C6-N6	-5.94	118.95	123.70
44	Ak	27	DA	C5-C6-N1	-5.94	114.73	117.70
62	B6	20	DA	C4-C5-C6	5.94	119.97	117.00
67	BC	38	DA	C4-C5-C6	5.94	119.97	117.00
114	C4	50	DA	C5-C6-N6	-5.94	118.95	123.70
115	C5	42	DA	C4-C5-C6	5.94	119.97	117.00
1	AA	284	DC	P-O3'-C3'	5.94	126.83	119.70
1	AA	953	DA	C5-C6-N6	-5.94	118.95	123.70
1	AA	1084	DG	P-O3'-C3'	5.94	126.83	119.70
1	AA	1633	DA	C5-C6-N6	-5.94	118.95	123.70
1	AA	2539	DA	C4-C5-C6	5.94	119.97	117.00
1	AA	2788	DA	O4'-C1'-C2'	-5.94	101.15	105.90
1	AA	3084	DA	C4-C5-C6	5.94	119.97	117.00
1	AA	3321	DC	N3-C4-N4	5.94	122.16	118.00
1	AA	4177	DA	C5-C6-N6	-5.94	118.95	123.70
1	AA	4901	DA	C5-C6-N6	-5.94	118.95	123.70
1	AA	5808	DA	C4-C5-C6	5.94	119.97	117.00
1	AA	6183	DA	C4-C5-C6	5.94	119.97	117.00
1	AA	7208	DA	C4-C5-C6	5.94	119.97	117.00
24	AO	41	DA	C4-C5-C6	5.94	119.97	117.00
34	AY	36	DA	C4-C5-C6	5.94	119.97	117.00
44	Ak	40	DA	C5-C6-N6	-5.94	118.95	123.70
49	As	1	DA	C5-C6-N6	-5.94	118.95	123.70
54	Ay	12	DA	C4-C5-C6	5.94	119.97	117.00
78	BN	57	DC	C2-N1-C1'	5.94	125.33	118.80
88	BX	8	DA	C4-C5-C6	5.94	119.97	117.00
90	BZ	38	DA	C4-C5-C6	5.94	119.97	117.00
112	C2	47	DC	N3-C4-N4	5.94	122.16	118.00
127	CJ	4	DA	C5-C6-N6	-5.94	118.95	123.70
132	CO	2	DA	C4-C5-C6	5.94	119.97	117.00
144	Cb	38	DA	C4-C5-C6	5.94	119.97	117.00
147	Ce	6	DA	C5-C6-N6	-5.94	118.95	123.70
1	AA	1360	DA	C4-C5-C6	5.94	119.97	117.00
1	AA	1580	DC	N3-C4-N4	5.94	122.16	118.00
1	AA	3099	DA	C4-C5-C6	5.94	119.97	117.00
1	AA	4237	DC	N3-C4-N4	5.94	122.16	118.00
1	AA	6010	DA	C4-C5-C6	5.94	119.97	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6194	DA	C5-C6-N6	-5.94	118.95	123.70
1	AA	6883	DT	P-O3'-C3'	5.94	126.82	119.70
28	AS	31	DA	C5-C6-N6	-5.94	118.95	123.70
41	Ah	16	DA	C4-C5-C6	5.94	119.97	117.00
95	Be	47	DA	C4-C5-C6	5.94	119.97	117.00
158	Cv	18	DA	C4-C5-C6	5.94	119.97	117.00
1	AA	528	DA	C4-C5-C6	5.93	119.97	117.00
1	AA	1583	DA	C4-C5-C6	5.93	119.97	117.00
1	AA	2021	DA	C4-C5-C6	5.93	119.97	117.00
1	AA	2345	DA	C4-C5-C6	5.93	119.97	117.00
1	AA	2939	DA	C5-C6-N1	-5.93	114.73	117.70
1	AA	3227	DA	C4-C5-C6	5.93	119.97	117.00
1	AA	5897	DC	N3-C4-N4	5.93	122.15	118.00
10	A8	22	DA	C4-C5-C6	5.93	119.97	117.00
18	AI	16	DA	C4-C5-C6	5.93	119.97	117.00
18	AI	41	DA	C4-C5-C6	5.93	119.97	117.00
21	AL	21	DA	C5-C6-N6	-5.93	118.95	123.70
31	AV	14	DA	C4-C5-C6	5.93	119.97	117.00
79	BO	26	DA	C5-C6-N6	-5.93	118.95	123.70
99	Bi	11	DA	C5-C6-N6	-5.93	118.95	123.70
106	Bp	2	DA	C4-C5-C6	5.93	119.97	117.00
1	AA	1112	DA	C4-C5-C6	5.93	119.97	117.00
1	AA	1248	DA	C4-C5-C6	5.93	119.97	117.00
1	AA	2355	DA	C4-C5-C6	5.93	119.97	117.00
1	AA	3910	DC	O4'-C1'-C2'	-5.93	101.15	105.90
1	AA	4947	DA	C4-C5-C6	5.93	119.97	117.00
1	AA	6290	DA	C4-C5-C6	5.93	119.97	117.00
1	AA	7102	DC	N3-C4-N4	5.93	122.15	118.00
16	AG	34	DA	C4-C5-C6	5.93	119.97	117.00
21	AL	32	DA	C5-C6-N6	-5.93	118.95	123.70
25	AP	9	DC	N3-C4-N4	5.93	122.15	118.00
44	Ak	40	DA	C4-C5-C6	5.93	119.97	117.00
52	Aw	12	DA	P-O3'-C3'	5.93	126.82	119.70
56	B0	26	DA	C4-C5-C6	5.93	119.97	117.00
56	B0	42	DA	C4-C5-C6	5.93	119.97	117.00
71	BG	16	DA	C4-C5-C6	5.93	119.97	117.00
111	C1	5	DA	C5-C6-N1	-5.93	114.73	117.70
124	CG	25	DT	C1'-O4'-C4'	-5.93	104.17	110.10
138	CU	5	DA	C5-C6-N6	-5.93	118.95	123.70
138	CU	12	DA	C5-C6-N6	-5.93	118.95	123.70
1	AA	2201	DC	O4'-C1'-C2'	-5.93	101.16	105.90
1	AA	3142	DA	C5-C6-N6	-5.93	118.96	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3960	DA	C4-C5-C6	5.93	119.97	117.00
1	AA	3978	DA	C5-C6-N6	-5.93	118.95	123.70
1	AA	4481	DA	C5-C6-N6	-5.93	118.95	123.70
1	AA	4674	DA	C5-C6-N6	-5.93	118.95	123.70
1	AA	5519	DA	C4-C5-C6	5.93	119.97	117.00
6	A4	41	DA	C5-C6-N6	-5.93	118.96	123.70
12	AC	41	DG	C1'-O4'-C4'	-5.93	104.17	110.10
66	BB	6	DA	C5-C6-N6	-5.93	118.95	123.70
86	BV	30	DA	C4-C5-C6	5.93	119.97	117.00
89	BY	17	DA	C4-C5-C6	5.93	119.97	117.00
106	Bp	1	DA	C4-C5-C6	5.93	119.97	117.00
113	C3	22	DA	C4-C5-C6	5.93	119.97	117.00
142	CY	38	DA	C4-C5-C6	5.93	119.97	117.00
1	AA	83	DA	C5-C6-N6	-5.93	118.96	123.70
1	AA	148	DA	C4-C5-C6	5.93	119.97	117.00
1	AA	1221	DC	N3-C4-N4	5.93	122.15	118.00
1	AA	1616	DA	C5-C6-N6	-5.93	118.96	123.70
1	AA	1990	DA	C4-C5-C6	5.93	119.97	117.00
1	AA	3466	DA	C5-C6-N6	-5.93	118.96	123.70
1	AA	3702	DA	C4-C5-C6	5.93	119.97	117.00
1	AA	4236	DC	N3-C4-N4	5.93	122.15	118.00
1	AA	4440	DA	C4-C5-C6	5.93	119.97	117.00
1	AA	5085	DC	N3-C4-N4	5.93	122.15	118.00
1	AA	5449	DA	C5-C6-N6	-5.93	118.96	123.70
1	AA	5616	DC	N3-C4-N4	5.93	122.15	118.00
1	AA	5909	DA	C5-C6-N1	-5.93	114.74	117.70
1	AA	7086	DC	N3-C4-N4	5.93	122.15	118.00
1	AA	7243	DA	C4-C5-C6	5.93	119.97	117.00
7	A5	36	DA	C4-C5-C6	5.93	119.97	117.00
9	A7	16	DA	C4-C5-C6	5.93	119.96	117.00
16	AG	32	DA	C4-C5-C6	5.93	119.97	117.00
19	AJ	1	DA	C5-C6-N6	-5.93	118.96	123.70
31	AV	50	DT	O4'-C1'-C2'	-5.93	101.16	105.90
37	Ac	55	DA	C4-C5-C6	5.93	119.97	117.00
63	B7	18	DC	O4'-C1'-C2'	-5.93	101.16	105.90
72	BH	19	DC	P-O3'-C3'	5.93	126.82	119.70
73	BI	25	DA	C4-C5-C6	5.93	119.97	117.00
77	BM	50	DA	C4-C5-C6	5.93	119.97	117.00
81	BQ	24	DC	N3-C4-C5	-5.93	119.53	121.90
87	BW	51	DA	C4-C5-C6	5.93	119.97	117.00
89	BY	18	DA	C5-C6-N6	-5.93	118.96	123.70
97	Bg	18	DA	C4-C5-C6	5.93	119.96	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
105	Bo	27	DA	C5-C6-N6	-5.93	118.96	123.70
129	CL	41	DA	C4-C5-C6	5.93	119.96	117.00
133	CP	2	DA	C4-C5-C6	5.93	119.97	117.00
136	CS	46	DA	C5-C6-N6	-5.93	118.96	123.70
142	CY	28	DA	C4-C5-C6	5.93	119.97	117.00
151	Ck	5	DA	C5-C6-N6	-5.93	118.96	123.70
155	Cs	5	DA	C4-C5-C6	5.93	119.97	117.00
159	Cw	45	DA	C4-C5-C6	5.93	119.97	117.00
161	Cy	1	DA	C5-C6-N6	-5.93	118.96	123.70
1	AA	282	DA	C4-C5-C6	5.93	119.96	117.00
1	AA	992	DA	C4-C5-C6	5.93	119.96	117.00
1	AA	3939	DA	C4-C5-C6	5.93	119.96	117.00
1	AA	5226	DA	C5-C6-N1	-5.93	114.74	117.70
18	AI	33	DA	C4-C5-C6	5.93	119.96	117.00
24	AO	5	DA	C5-C6-N6	-5.93	118.96	123.70
71	BG	3	DA	C4-C5-C6	5.93	119.96	117.00
84	BT	14	DA	C4-C5-C6	5.93	119.96	117.00
122	CE	3	DA	C4-C5-C6	5.93	119.96	117.00
148	Cf	41	DA	C4-C5-C6	5.93	119.96	117.00
1	AA	1499	DA	C5-C6-N1	-5.93	114.74	117.70
1	AA	2240	DA	C5-C6-N6	-5.93	118.96	123.70
1	AA	2598	DC	N3-C4-N4	5.93	122.15	118.00
1	AA	3185	DA	C4-C5-C6	5.93	119.96	117.00
1	AA	3361	DC	N3-C4-N4	5.93	122.15	118.00
1	AA	3431	DA	O4'-C1'-C2'	-5.93	101.16	105.90
1	AA	4367	DA	C5-C6-N1	-5.93	114.74	117.70
1	AA	4517	DC	N3-C4-N4	5.93	122.15	118.00
1	AA	4933	DA	C5-C6-N6	-5.93	118.96	123.70
1	AA	5456	DA	C5-C6-N6	-5.93	118.96	123.70
1	AA	5780	DC	N3-C4-N4	5.93	122.15	118.00
1	AA	6115	DA	C4-C5-C6	5.93	119.96	117.00
1	AA	6649	DA	P-O3'-C3'	5.93	126.81	119.70
1	AA	6989	DA	C4-C5-C6	5.93	119.96	117.00
7	A5	26	DA	C4-C5-C6	5.93	119.96	117.00
7	A5	26	DA	C5-C6-N6	-5.93	118.96	123.70
14	AE	4	DA	C4-C5-C6	5.93	119.96	117.00
30	AU	40	DG	P-O3'-C3'	5.93	126.81	119.70
63	B7	40	DA	C5-C6-N6	-5.93	118.96	123.70
64	B8	3	DA	C4-C5-C6	5.93	119.96	117.00
97	Bg	40	DA	C4-C5-C6	5.93	119.96	117.00
99	Bi	19	DA	C5-C6-N6	-5.93	118.96	123.70
158	Cv	34	DA	C5-C6-N6	-5.93	118.96	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	884	DA	C4-C5-C6	5.92	119.96	117.00
1	AA	1114	DA	C4-C5-C6	5.92	119.96	117.00
1	AA	1762	DA	C4-C5-C6	5.92	119.96	117.00
1	AA	2443	DA	C4-C5-C6	5.92	119.96	117.00
1	AA	2509	DA	C4-C5-C6	5.92	119.96	117.00
1	AA	5466	DC	N3-C4-N4	5.92	122.15	118.00
20	AK	56	DA	C5-C6-N6	-5.92	118.96	123.70
30	AU	36	DA	O4'-C1'-N9	5.92	112.15	108.00
32	AW	44	DA	C4-C5-C6	5.92	119.96	117.00
39	Af	44	DA	C4-C5-C6	5.92	119.96	117.00
60	B4	6	DA	C5-C6-N6	-5.92	118.96	123.70
80	BP	23	DA	C4-C5-C6	5.92	119.96	117.00
83	BS	29	DC	N3-C4-N4	5.92	122.15	118.00
89	BY	21	DA	C4-C5-C6	5.92	119.96	117.00
92	Bb	64	DA	C5-C6-N6	-5.92	118.96	123.70
95	Be	19	DA	C4-C5-C6	5.92	119.96	117.00
100	Bj	26	DA	C5-C6-N6	-5.92	118.96	123.70
103	Bm	41	DA	C4-C5-C6	5.92	119.96	117.00
116	C6	11	DA	C1'-O4'-C4'	-5.92	104.17	110.10
125	CH	2	DA	O4'-C1'-N9	5.92	112.15	108.00
142	CY	28	DA	C5-C6-N1	-5.92	114.74	117.70
148	Cf	45	DA	C5-C6-N6	-5.92	118.96	123.70
149	Cg	46	DA	C4-C5-C6	5.92	119.96	117.00
158	Cv	21	DA	C5-C6-N6	-5.92	118.96	123.70
161	Cy	47	DA	C4-C5-C6	5.92	119.96	117.00
1	AA	663	DC	O4'-C4'-C3'	-5.92	102.13	104.50
1	AA	833	DA	C4-C5-C6	5.92	119.96	117.00
1	AA	2691	DC	N3-C4-N4	5.92	122.15	118.00
1	AA	6229	DA	C4-C5-C6	5.92	119.96	117.00
42	Ai	5	DG	O4'-C1'-N9	5.92	112.15	108.00
68	BD	8	DA	C4-C5-C6	5.92	119.96	117.00
87	BW	7	DA	C4-C5-C6	5.92	119.96	117.00
117	C7	4	DA	C5-C6-N6	-5.92	118.96	123.70
159	Cw	53	DA	C5-C6-N6	-5.92	118.96	123.70
1	AA	1439	DA	C5-C6-N6	-5.92	118.96	123.70
1	AA	1681	DA	C4-C5-C6	5.92	119.96	117.00
1	AA	3110	DC	N3-C4-N4	5.92	122.15	118.00
1	AA	3175	DA	C4-C5-C6	5.92	119.96	117.00
1	AA	3247	DA	C4-C5-C6	5.92	119.96	117.00
1	AA	3511	DA	C4-C5-C6	5.92	119.96	117.00
1	AA	5763	DT	O4'-C1'-C2'	-5.92	101.16	105.90
1	AA	6071	DA	C4-C5-C6	5.92	119.96	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6455	DC	O4'-C1'-C2'	-5.92	101.16	105.90
6	A4	42	DA	C4-C5-C6	5.92	119.96	117.00
24	AO	7	DA	C5-C6-N6	-5.92	118.96	123.70
25	AP	14	DA	C4-C5-C6	5.92	119.96	117.00
29	AT	18	DA	C4-C5-C6	5.92	119.96	117.00
35	AZ	2	DA	C5-C6-N6	-5.92	118.96	123.70
43	Aj	21	DG	C5-C6-O6	-5.92	125.05	128.60
58	B2	9	DA	C4-C5-C6	5.92	119.96	117.00
62	B6	12	DA	C4-C5-C6	5.92	119.96	117.00
62	B6	41	DC	N3-C4-N4	5.92	122.15	118.00
93	Bc	22	DA	C4-C5-C6	5.92	119.96	117.00
112	C2	38	DC	N3-C4-C5	-5.92	119.53	121.90
123	CF	3	DA	C5-C6-N6	-5.92	118.96	123.70
150	Ch	16	DA	C4-C5-C6	5.92	119.96	117.00
151	Ck	7	DA	C4-C5-C6	5.92	119.96	117.00
151	Ck	39	DA	C5-C6-N6	-5.92	118.96	123.70
1	AA	127	DA	C4-C5-C6	5.92	119.96	117.00
1	AA	1110	DA	C4-C5-C6	5.92	119.96	117.00
1	AA	4511	DA	C4-C5-C6	5.92	119.96	117.00
1	AA	5925	DA	C4-C5-C6	5.92	119.96	117.00
1	AA	6661	DC	N3-C4-N4	5.92	122.14	118.00
33	AX	23	DA	C5-C6-N6	-5.92	118.96	123.70
46	Am	35	DA	C5-C6-N6	-5.92	118.96	123.70
65	B9	22	DC	N3-C4-N4	5.92	122.14	118.00
70	BF	36	DA	C4-C5-C6	5.92	119.96	117.00
107	Bq	50	DA	C4-C5-C6	5.92	119.96	117.00
111	C1	2	DA	O4'-C4'-C3'	-5.92	102.13	104.50
114	C4	25	DA	C5-C6-N6	-5.92	118.96	123.70
123	CF	23	DA	P-O5'-C5'	-5.92	111.43	120.90
131	CN	26	DA	C4-C5-C6	5.92	119.96	117.00
132	CO	28	DA	C5-C6-N6	-5.92	118.96	123.70
154	Cr	1	DC	O4'-C1'-N1	5.92	112.14	108.00
1	AA	1888	DC	N3-C4-N4	5.92	122.14	118.00
1	AA	1937	DA	C5-C6-N6	-5.92	118.97	123.70
1	AA	2100	DA	C5-C6-N6	-5.92	118.97	123.70
1	AA	2138	DA	C4-C5-C6	5.92	119.96	117.00
1	AA	2975	DG	P-O3'-C3'	5.92	126.80	119.70
1	AA	3045	DA	C5-C6-N6	-5.92	118.97	123.70
1	AA	3529	DC	N3-C4-N4	5.92	122.14	118.00
1	AA	3736	DA	C4-C5-C6	5.92	119.96	117.00
1	AA	6004	DA	C5-C6-N6	-5.92	118.97	123.70
3	A1	39	DA	C4-C5-C6	5.92	119.96	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A2	4	DA	C5-C6-N6	-5.92	118.97	123.70
18	AI	15	DA	C4-C5-C6	5.92	119.96	117.00
29	AT	22	DA	C5-C6-N6	-5.92	118.97	123.70
34	AY	8	DT	P-O3'-C3'	5.92	126.80	119.70
38	Ad	13	DC	N3-C4-N4	5.92	122.14	118.00
67	BC	3	DT	O4'-C1'-N1	5.92	112.14	108.00
88	BX	40	DA	C5-C6-N6	-5.92	118.97	123.70
91	Ba	23	DA	C1'-O4'-C4'	-5.92	104.18	110.10
97	Bg	18	DA	C5-C6-N6	-5.92	118.97	123.70
115	C5	20	DA	C4-C5-C6	5.92	119.96	117.00
126	CI	13	DA	C4-C5-C6	5.92	119.96	117.00
128	CK	17	DA	C5-C6-N6	-5.92	118.97	123.70
141	CX	29	DC	N3-C4-N4	5.92	122.14	118.00
149	Cg	26	DA	C4-C5-C6	5.92	119.96	117.00
154	Cr	46	DC	O4'-C1'-N1	5.92	112.14	108.00
1	AA	660	DA	C4-C5-C6	5.92	119.96	117.00
1	AA	857	DA	C4-C5-C6	5.92	119.96	117.00
1	AA	3214	DA	C4-C5-C6	5.92	119.96	117.00
1	AA	3543	DA	C4-C5-C6	5.92	119.96	117.00
1	AA	4379	DC	N3-C4-N4	5.92	122.14	118.00
1	AA	5056	DA	O4'-C1'-N9	5.92	112.14	108.00
1	AA	5843	DG	O4'-C1'-C2'	-5.92	101.17	105.90
1	AA	6643	DA	C5-C6-N6	-5.92	118.97	123.70
9	A7	7	DA	C4-C5-C6	5.92	119.96	117.00
13	AD	9	DA	C4-C5-C6	5.92	119.96	117.00
13	AD	41	DA	C5-C6-N6	-5.92	118.97	123.70
42	Ai	39	DC	N3-C4-N4	5.92	122.14	118.00
55	Az	39	DA	C4-C5-C6	5.92	119.96	117.00
55	Az	45	DA	C4-C5-C6	5.92	119.96	117.00
71	BG	36	DA	C4-C5-C6	5.92	119.96	117.00
76	BL	19	DC	N3-C4-N4	5.92	122.14	118.00
106	Bp	3	DA	C4-C5-C6	5.92	119.96	117.00
113	C3	25	DC	N3-C4-N4	5.92	122.14	118.00
136	CS	15	DA	C5-C6-N6	-5.92	118.97	123.70
154	Cr	14	DA	C5-C6-N6	-5.92	118.97	123.70
1	AA	118	DA	C4-C5-C6	5.92	119.96	117.00
1	AA	1765	DA	C4-C5-C6	5.92	119.96	117.00
1	AA	2670	DA	C4-C5-C6	5.92	119.96	117.00
1	AA	5424	DC	N3-C4-N4	5.92	122.14	118.00
9	A7	40	DA	O4'-C1'-N9	5.92	112.14	108.00
12	AC	14	DA	C4-C5-C6	5.92	119.96	117.00
28	AS	39	DA	C5-C6-N6	-5.92	118.97	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
43	Aj	15	DA	C5-C6-N1	-5.92	114.74	117.70
61	B5	32	DA	C4-C5-C6	5.92	119.96	117.00
68	BD	29	DA	C4-C5-C6	5.92	119.96	117.00
152	Cp	16	DA	C4-C5-C6	5.92	119.96	117.00
1	AA	1937	DA	C4-C5-C6	5.91	119.96	117.00
1	AA	2819	DA	C5-C6-N6	-5.91	118.97	123.70
1	AA	3068	DA	C5-C6-N6	-5.91	118.97	123.70
1	AA	4676	DA	C5-C6-N6	-5.91	118.97	123.70
1	AA	5541	DA	C4-C5-C6	5.91	119.96	117.00
1	AA	5846	DA	C4-C5-C6	5.91	119.96	117.00
1	AA	6602	DA	C4-C5-C6	5.91	119.96	117.00
6	A4	1	DA	C4-C5-C6	5.91	119.96	117.00
24	AO	29	DA	C4-C5-C6	5.91	119.96	117.00
27	AR	38	DA	C4-C5-C6	5.91	119.96	117.00
65	B9	13	DA	C4-C5-C6	5.91	119.96	117.00
87	BW	28	DA	C4-C5-C6	5.91	119.96	117.00
91	Ba	29	DA	C4-C5-C6	5.91	119.96	117.00
99	Bi	4	DA	C4-C5-C6	5.91	119.96	117.00
105	Bo	18	DA	C4-C5-C6	5.91	119.96	117.00
106	Bp	25	DA	C5-C6-N6	-5.91	118.97	123.70
112	C2	33	DA	C5-C6-N1	-5.91	114.74	117.70
129	CL	15	DA	C4-C5-C6	5.91	119.96	117.00
146	Cd	35	DA	C4-C5-C6	5.91	119.96	117.00
154	Cr	9	DG	P-O3'-C3'	5.91	126.80	119.70
162	Cz	25	DC	O4'-C1'-N1	5.91	112.14	108.00
162	Cz	43	DA	C4-C5-C6	5.91	119.96	117.00
1	AA	2860	DC	N3-C4-N4	5.91	122.14	118.00
1	AA	4261	DA	C5-C6-N6	-5.91	118.97	123.70
1	AA	7051	DC	N3-C4-N4	5.91	122.14	118.00
8	A6	26	DA	C4-C5-C6	5.91	119.96	117.00
19	AJ	50	DA	C4-C5-C6	5.91	119.96	117.00
114	C4	63	DA	C4-C5-C6	5.91	119.96	117.00
128	CK	21	DA	C4-C5-C6	5.91	119.96	117.00
141	CX	22	DA	C4-C5-C6	5.91	119.96	117.00
1	AA	113	DA	C4-C5-C6	5.91	119.95	117.00
1	AA	842	DA	C5-C6-N6	-5.91	118.97	123.70
1	AA	1011	DA	C4-C5-C6	5.91	119.95	117.00
1	AA	1031	DA	C5-C6-N6	-5.91	118.97	123.70
1	AA	1333	DA	C4-C5-C6	5.91	119.95	117.00
1	AA	1847	DA	C4-C5-C6	5.91	119.96	117.00
1	AA	3933	DA	C5-C6-N6	-5.91	118.97	123.70
1	AA	4426	DA	C5-C6-N6	-5.91	118.97	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6008	DA	C4-C5-C6	5.91	119.95	117.00
1	AA	6139	DA	C5-C6-N1	-5.91	114.75	117.70
1	AA	6999	DA	C4-C5-C6	5.91	119.95	117.00
8	A6	2	DA	P-O3'-C3'	5.91	126.79	119.70
22	AM	47	DA	C4-C5-C6	5.91	119.95	117.00
32	AW	46	DA	C5-C6-N6	-5.91	118.97	123.70
35	AZ	50	DC	N3-C4-C5	-5.91	119.54	121.90
52	Aw	42	DA	C4-C5-C6	5.91	119.96	117.00
78	BN	61	DC	O4'-C1'-N1	5.91	112.14	108.00
102	Bl	38	DA	C4-C5-C6	5.91	119.95	117.00
105	Bo	14	DT	O4'-C1'-N1	5.91	112.14	108.00
111	C1	4	DC	N3-C4-N4	5.91	122.14	118.00
113	C3	11	DA	C4-C5-C6	5.91	119.95	117.00
123	CF	26	DG	P-O5'-C5'	-5.91	111.44	120.90
127	CJ	20	DC	N3-C4-N4	5.91	122.14	118.00
130	CM	16	DA	C5-C6-N6	-5.91	118.97	123.70
132	CO	17	DA	C5-C6-N1	-5.91	114.75	117.70
150	Ch	33	DA	C4-C5-C6	5.91	119.95	117.00
150	Ch	37	DA	C4-C5-C6	5.91	119.96	117.00
155	Cs	32	DA	C4-C5-C6	5.91	119.95	117.00
1	AA	307	DA	C5-C6-N6	-5.91	118.97	123.70
1	AA	383	DA	C4-C5-C6	5.91	119.95	117.00
1	AA	652	DT	O4'-C1'-N1	5.91	112.14	108.00
1	AA	1387	DA	C5-C6-N6	-5.91	118.97	123.70
1	AA	2014	DA	O4'-C4'-C3'	-5.91	102.14	104.50
1	AA	2716	DC	N3-C4-N4	5.91	122.14	118.00
1	AA	2717	DA	C5-C6-N1	-5.91	114.75	117.70
1	AA	2913	DC	O4'-C1'-C2'	-5.91	101.17	105.90
1	AA	2935	DA	C4-C5-C6	5.91	119.95	117.00
1	AA	3089	DC	N3-C4-N4	5.91	122.14	118.00
1	AA	4357	DA	C5-C6-N1	-5.91	114.75	117.70
1	AA	5896	DA	C5-C6-N6	-5.91	118.97	123.70
1	AA	6172	DC	N3-C4-N4	5.91	122.14	118.00
1	AA	6748	DA	C4-C5-C6	5.91	119.95	117.00
1	AA	6906	DC	N3-C4-N4	5.91	122.14	118.00
24	AO	29	DA	C5-C6-N1	-5.91	114.75	117.70
31	AV	9	DC	N3-C4-C5	-5.91	119.54	121.90
45	Al	38	DA	C4-C5-C6	5.91	119.95	117.00
46	Am	32	DA	C4-C5-C6	5.91	119.95	117.00
67	BC	35	DA	O4'-C1'-C2'	-5.91	101.17	105.90
96	Bf	48	DA	C4-C5-C6	5.91	119.95	117.00
115	C5	34	DA	C4-C5-C6	5.91	119.95	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
119	CB	40	DA	C4-C5-C6	5.91	119.95	117.00
138	CU	24	DA	C4-C5-C6	5.91	119.95	117.00
143	CZ	39	DA	C5-C6-N6	-5.91	118.97	123.70
145	Cc	48	DA	C4-C5-C6	5.91	119.95	117.00
162	Cz	48	DA	C5-C6-N6	-5.91	118.97	123.70
1	AA	1743	DA	C4-C5-C6	5.91	119.95	117.00
1	AA	2176	DA	C5-C6-N6	-5.91	118.97	123.70
1	AA	3181	DA	C4-C5-C6	5.91	119.95	117.00
1	AA	3435	DA	C5-C6-N6	-5.91	118.97	123.70
1	AA	4099	DA	C4-C5-C6	5.91	119.95	117.00
1	AA	5720	DA	C4-C5-C6	5.91	119.95	117.00
30	AU	24	DA	C5-C6-N6	-5.91	118.97	123.70
90	BZ	27	DA	C4-C5-C6	5.91	119.95	117.00
137	CT	19	DA	C4-C5-C6	5.91	119.95	117.00
146	Cd	10	DA	C4-C5-C6	5.91	119.95	117.00
157	Cu	52	DA	C5-C6-N6	-5.91	118.97	123.70
1	AA	461	DA	C4-C5-C6	5.91	119.95	117.00
1	AA	556	DA	C4-C5-C6	5.91	119.95	117.00
1	AA	920	DA	C5-C6-N6	-5.91	118.97	123.70
1	AA	1264	DA	C4-C5-C6	5.91	119.95	117.00
1	AA	1347	DA	C5-C6-N6	-5.91	118.98	123.70
1	AA	2192	DA	C4-C5-C6	5.91	119.95	117.00
1	AA	3445	DA	C4-C5-C6	5.91	119.95	117.00
1	AA	3495	DA	C4-C5-C6	5.91	119.95	117.00
1	AA	4805	DA	C4-C5-C6	5.91	119.95	117.00
1	AA	5104	DA	C4-C5-C6	5.91	119.95	117.00
1	AA	5702	DA	C4-C5-C6	5.91	119.95	117.00
1	AA	6635	DA	C4-C5-C6	5.91	119.95	117.00
4	A2	9	DA	C4-C5-C6	5.91	119.95	117.00
16	AG	7	DA	C4-C5-C6	5.91	119.95	117.00
16	AG	42	DA	C4-C5-C6	5.91	119.95	117.00
19	AJ	49	DA	C4-C5-C6	5.91	119.95	117.00
22	AM	16	DA	C4-C5-C6	5.91	119.95	117.00
30	AU	47	DA	C5-C6-N6	-5.91	118.98	123.70
37	Ac	14	DA	C5-C6-N6	-5.91	118.97	123.70
45	Al	33	DA	C5-C6-N1	-5.91	114.75	117.70
51	Av	22	DA	C5-C6-N1	-5.91	114.75	117.70
51	Av	25	DA	C4-C5-C6	5.91	119.95	117.00
65	B9	10	DT	C1'-O4'-C4'	-5.91	104.19	110.10
67	BC	8	DA	C4-C5-C6	5.91	119.95	117.00
92	Bb	10	DC	N3-C4-N4	5.91	122.13	118.00
103	Bm	47	DA	C4-C5-C6	5.91	119.95	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
121	CD	6	DC	N3-C4-C5	-5.91	119.54	121.90
141	CX	24	DC	N3-C4-N4	5.91	122.13	118.00
143	CZ	32	DA	C4-C5-C6	5.91	119.95	117.00
143	CZ	44	DA	C4-C5-C6	5.91	119.95	117.00
153	Cq	26	DA	C4-C5-C6	5.91	119.95	117.00
157	Cu	1	DA	C5-C6-N6	-5.91	118.98	123.70
157	Cu	2	DA	C4-C5-C6	5.91	119.95	117.00
162	Cz	40	DC	N3-C4-N4	5.91	122.13	118.00
1	AA	867	DA	C5-C6-N6	-5.90	118.98	123.70
1	AA	2889	DA	C4-C5-C6	5.90	119.95	117.00
1	AA	3625	DA	C4-C5-C6	5.90	119.95	117.00
1	AA	4341	DA	C5-C6-N6	-5.90	118.98	123.70
1	AA	5838	DA	C5-C6-N6	-5.90	118.98	123.70
1	AA	6914	DA	C4-C5-C6	5.90	119.95	117.00
20	AK	58	DC	N3-C4-N4	5.90	122.13	118.00
24	AO	20	DA	C5-C6-N6	-5.90	118.98	123.70
35	AZ	9	DA	C4-C5-C6	5.90	119.95	117.00
54	Ay	35	DC	O4'-C1'-N1	5.90	112.13	108.00
85	BU	31	DA	C4-C5-C6	5.90	119.95	117.00
86	BV	32	DA	C4-C5-C6	5.90	119.95	117.00
91	Ba	43	DA	C5-C6-N6	-5.90	118.98	123.70
99	Bi	58	DC	C1'-O4'-C4'	-5.90	104.20	110.10
107	Bq	43	DG	P-O3'-C3'	5.90	126.78	119.70
1	AA	341	DA	C4-C5-C6	5.90	119.95	117.00
1	AA	1371	DT	O4'-C4'-C3'	-5.90	102.14	104.50
1	AA	1373	DC	N3-C4-N4	5.90	122.13	118.00
1	AA	1628	DA	C4-C5-C6	5.90	119.95	117.00
1	AA	1755	DA	C4-C5-C6	5.90	119.95	117.00
1	AA	1863	DG	O4'-C4'-C3'	-5.90	102.14	104.50
1	AA	2024	DA	C4-C5-C6	5.90	119.95	117.00
1	AA	4095	DG	O4'-C1'-N9	5.90	112.13	108.00
1	AA	4631	DA	C4-C5-C6	5.90	119.95	117.00
1	AA	4881	DA	C4-C5-C6	5.90	119.95	117.00
1	AA	5011	DA	C4-C5-C6	5.90	119.95	117.00
1	AA	5019	DA	C4-C5-C6	5.90	119.95	117.00
1	AA	5629	DA	C4-C5-C6	5.90	119.95	117.00
1	AA	5923	DA	C4-C5-C6	5.90	119.95	117.00
1	AA	6471	DC	N3-C4-N4	5.90	122.13	118.00
1	AA	7209	DA	C4-C5-C6	5.90	119.95	117.00
12	AC	12	DA	C4-C5-C6	5.90	119.95	117.00
19	AJ	35	DA	C4-C5-C6	5.90	119.95	117.00
20	AK	50	DG	O4'-C1'-N9	5.90	112.13	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	AW	15	DA	C4-C5-C6	5.90	119.95	117.00
35	AZ	52	DC	N3-C4-N4	5.90	122.13	118.00
48	Ao	4	DA	C4-C5-C6	5.90	119.95	117.00
48	Ao	29	DA	C4-C5-C6	5.90	119.95	117.00
53	Ax	47	DA	C4-C5-C6	5.90	119.95	117.00
67	BC	6	DA	C5-C6-N1	-5.90	114.75	117.70
76	BL	47	DA	C5-C6-N6	-5.90	118.98	123.70
89	BY	20	DC	N3-C4-N4	5.90	122.13	118.00
137	CT	21	DA	C4-C5-C6	5.90	119.95	117.00
143	CZ	2	DA	C4-C5-C6	5.90	119.95	117.00
153	Cq	1	DA	C5-C6-N6	-5.90	118.98	123.70
1	AA	1007	DA	C5-C6-N6	-5.90	118.98	123.70
1	AA	1140	DA	C4-C5-C6	5.90	119.95	117.00
1	AA	2248	DA	C4-C5-C6	5.90	119.95	117.00
1	AA	2541	DA	C5-C6-N6	-5.90	118.98	123.70
1	AA	3242	DC	N3-C4-N4	5.90	122.13	118.00
1	AA	3576	DA	C4-C5-C6	5.90	119.95	117.00
1	AA	3751	DA	C4-C5-C6	5.90	119.95	117.00
1	AA	3875	DC	N3-C4-N4	5.90	122.13	118.00
1	AA	4589	DC	N3-C4-N4	5.90	122.13	118.00
1	AA	5784	DA	C4-C5-C6	5.90	119.95	117.00
1	AA	6051	DA	C4-C5-C6	5.90	119.95	117.00
1	AA	6132	DA	C4-C5-C6	5.90	119.95	117.00
1	AA	6745	DA	C5-C6-N6	-5.90	118.98	123.70
35	AZ	19	DA	C5-C6-N6	-5.90	118.98	123.70
41	Ah	3	DA	C5-C6-N6	-5.90	118.98	123.70
42	Ai	2	DA	O4'-C4'-C3'	-5.90	102.14	104.50
77	BM	40	DC	N3-C4-N4	5.90	122.13	118.00
92	Bb	43	DA	C4-C5-C6	5.90	119.95	117.00
96	Bf	17	DA	C4-C5-C6	5.90	119.95	117.00
126	CI	16	DA	C4-C5-C6	5.90	119.95	117.00
128	CK	28	DC	N3-C4-N4	5.90	122.13	118.00
133	CP	53	DA	C4-C5-C6	5.90	119.95	117.00
145	Cc	52	DA	C4-C5-C6	5.90	119.95	117.00
1	AA	980	DA	C4-C5-C6	5.90	119.95	117.00
1	AA	1432	DA	C4-C5-C6	5.90	119.95	117.00
1	AA	1669	DA	C5-C6-N6	-5.90	118.98	123.70
1	AA	2708	DC	N3-C4-N4	5.90	122.13	118.00
1	AA	6029	DA	C5-C6-N6	-5.90	118.98	123.70
53	Ax	31	DA	C5-C6-N6	-5.90	118.98	123.70
75	BK	27	DA	C4-C5-C6	5.90	119.95	117.00
99	Bi	50	DA	C5-C6-N6	-5.90	118.98	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
110	C0	9	DA	C4-C5-C6	5.90	119.95	117.00
113	C3	23	DA	C5-C6-N6	-5.90	118.98	123.70
152	Cp	23	DA	C4-C5-C6	5.90	119.95	117.00
1	AA	3345	DA	C4-C5-C6	5.90	119.95	117.00
1	AA	4665	DA	C4-C5-C6	5.90	119.95	117.00
1	AA	5220	DC	N3-C4-N4	5.90	122.13	118.00
1	AA	6069	DA	C5-C6-N6	-5.90	118.98	123.70
1	AA	6664	DA	C4-C5-C6	5.90	119.95	117.00
30	AU	44	DA	C4-C5-C6	5.90	119.95	117.00
34	AY	13	DA	C4-C5-C6	5.90	119.95	117.00
59	B3	32	DC	N3-C4-N4	5.90	122.13	118.00
62	B6	28	DC	N3-C4-C5	-5.90	119.54	121.90
68	BD	6	DA	C5-C6-N6	-5.90	118.98	123.70
78	BN	38	DA	C4-C5-C6	5.90	119.95	117.00
97	Bg	13	DA	C4-C5-C6	5.90	119.95	117.00
99	Bi	11	DA	C4-C5-C6	5.90	119.95	117.00
105	Bo	13	DA	C5-C6-N6	-5.90	118.98	123.70
109	Bs	47	DC	N3-C4-N4	5.90	122.13	118.00
128	CK	10	DA	C5-C6-N6	-5.90	118.98	123.70
130	CM	34	DA	C4-C5-C6	5.90	119.95	117.00
144	Cb	32	DA	C4-C5-C6	5.90	119.95	117.00
159	Cw	32	DA	O4'-C1'-N9	5.90	112.13	108.00
1	AA	3685	DA	C5-C6-N6	-5.90	118.98	123.70
1	AA	6169	DA	C4-C5-C6	5.90	119.95	117.00
1	AA	6416	DG	P-O3'-C3'	5.90	126.78	119.70
5	A3	7	DA	C5-C6-N6	-5.90	118.98	123.70
5	A3	29	DC	N3-C4-N4	5.90	122.13	118.00
22	AM	45	DA	C4-C5-C6	5.90	119.95	117.00
51	Av	5	DC	P-O3'-C3'	5.90	126.78	119.70
73	BI	15	DA	C5-C6-N6	-5.90	118.98	123.70
79	BO	1	DA	C5-C6-N6	-5.90	118.98	123.70
92	Bb	19	DA	C4-C5-C6	5.90	119.95	117.00
114	C4	22	DA	C4-C5-C6	5.90	119.95	117.00
140	CW	19	DA	C4-C5-C6	5.90	119.95	117.00
1	AA	3	DA	C5-C6-N6	-5.89	118.98	123.70
1	AA	202	DA	C4-C5-C6	5.89	119.95	117.00
1	AA	250	DA	C5-C6-N1	-5.89	114.75	117.70
1	AA	897	DC	O4'-C4'-C3'	-5.89	102.14	104.50
1	AA	1209	DA	C4-C5-C6	5.89	119.95	117.00
1	AA	1403	DA	C5-C6-N1	-5.89	114.75	117.70
1	AA	1472	DA	C5-C6-N6	-5.89	118.98	123.70
1	AA	1534	DA	C4-C5-C6	5.89	119.95	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1566	DA	C4-C5-C6	5.89	119.95	117.00
1	AA	2499	DA	C4-C5-C6	5.89	119.95	117.00
1	AA	3048	DC	N3-C4-N4	5.89	122.12	118.00
1	AA	3562	DA	C5-C6-N6	-5.89	118.98	123.70
1	AA	3665	DA	C4-C5-C6	5.89	119.95	117.00
1	AA	4317	DA	C5-C6-N6	-5.89	118.98	123.70
1	AA	5859	DA	C5-C6-N6	-5.89	118.98	123.70
4	A2	21	DC	N3-C4-N4	5.89	122.13	118.00
4	A2	32	DA	C4-C5-C6	5.89	119.95	117.00
28	AS	27	DA	C5-C6-N6	-5.89	118.98	123.70
37	Ac	6	DA	C4-C5-C6	5.89	119.95	117.00
39	Af	10	DA	C5-C6-N1	-5.89	114.75	117.70
48	Ao	30	DT	O4'-C4'-C3'	-5.89	102.14	104.50
52	Aw	10	DT	O4'-C4'-C3'	-5.89	102.14	104.50
85	BU	40	DA	C4-C5-C6	5.89	119.95	117.00
93	Bc	29	DA	C4-C5-C6	5.89	119.95	117.00
97	Bg	14	DA	C4-C5-C6	5.89	119.95	117.00
97	Bg	14	DA	C5-C6-N6	-5.89	118.98	123.70
99	Bi	48	DT	O4'-C1'-C2'	-5.89	101.18	105.90
137	CT	22	DA	C4-C5-C6	5.89	119.95	117.00
144	Cb	37	DA	C4-C5-C6	5.89	119.95	117.00
148	Cf	20	DA	C4-C5-C6	5.89	119.95	117.00
154	Cr	14	DA	C4-C5-C6	5.89	119.95	117.00
1	AA	1370	DA	C5-C6-N6	-5.89	118.99	123.70
1	AA	1406	DT	O4'-C1'-N1	5.89	112.12	108.00
1	AA	1701	DA	C5-C6-N6	-5.89	118.99	123.70
1	AA	3169	DT	P-O3'-C3'	5.89	126.77	119.70
1	AA	5264	DA	C4-C5-C6	5.89	119.95	117.00
1	AA	5266	DT	OP1-P-O3'	5.89	118.16	105.20
1	AA	5770	DA	C4-C5-C6	5.89	119.95	117.00
1	AA	7181	DA	C4-C5-C6	5.89	119.95	117.00
6	A4	48	DA	C4-C5-C6	5.89	119.95	117.00
24	AO	13	DA	C5-C6-N1	-5.89	114.75	117.70
28	AS	34	DA	C5-C6-N6	-5.89	118.99	123.70
35	AZ	41	DA	C4-C5-C6	5.89	119.95	117.00
37	Ac	14	DA	C4-C5-C6	5.89	119.95	117.00
38	Ad	48	DA	C4-C5-C6	5.89	119.95	117.00
47	An	43	DA	C4-C5-C6	5.89	119.95	117.00
57	B1	44	DA	C4-C5-C6	5.89	119.95	117.00
69	BE	54	DA	C4-C5-C6	5.89	119.95	117.00
78	BN	17	DA	C4-C5-C6	5.89	119.95	117.00
88	BX	30	DA	C4'-C3'-C2'	-5.89	97.80	103.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
118	C8	25	DT	P-O3'-C3'	5.89	126.77	119.70
120	CC	8	DA	C5-C6-N6	-5.89	118.99	123.70
121	CD	26	DA	C4-C5-C6	5.89	119.95	117.00
133	CP	3	DA	C4-C5-C6	5.89	119.95	117.00
136	CS	36	DA	C4-C5-C6	5.89	119.95	117.00
140	CW	38	DG	O4'-C1'-N9	5.89	112.12	108.00
141	CX	25	DA	C5-C6-N6	-5.89	118.99	123.70
145	Cc	21	DA	C4-C5-C6	5.89	119.95	117.00
160	Cx	42	DA	C4-C5-C6	5.89	119.95	117.00
1	AA	1522	DA	C4-C5-C6	5.89	119.94	117.00
1	AA	1904	DA	C4-C5-C6	5.89	119.95	117.00
1	AA	2620	DA	C5-C6-N1	-5.89	114.75	117.70
1	AA	4030	DA	C4-C5-C6	5.89	119.94	117.00
1	AA	4906	DA	C5-C6-N1	-5.89	114.75	117.70
34	AY	36	DA	C5-C6-N6	-5.89	118.99	123.70
53	Ax	1	DC	N3-C4-C5	-5.89	119.54	121.90
59	B3	38	DA	C5-C6-N6	-5.89	118.99	123.70
78	BN	22	DC	N3-C4-C5	-5.89	119.54	121.90
91	Ba	48	DC	N3-C4-N4	5.89	122.12	118.00
96	Bf	16	DA	C5-C6-N6	-5.89	118.99	123.70
121	CD	35	DA	C4-C5-C6	5.89	119.94	117.00
150	Ch	25	DC	N3-C4-C5	-5.89	119.54	121.90
1	AA	193	DA	C4-C5-C6	5.89	119.94	117.00
1	AA	424	DC	N3-C4-N4	5.89	122.12	118.00
1	AA	1517	DA	C4-C5-C6	5.89	119.94	117.00
1	AA	2481	DC	N3-C4-C5	-5.89	119.54	121.90
1	AA	3153	DA	C4-C5-C6	5.89	119.94	117.00
1	AA	4077	DA	C4-C5-C6	5.89	119.94	117.00
1	AA	4526	DA	C4-C5-C6	5.89	119.94	117.00
1	AA	5320	DA	C5-C6-N6	-5.89	118.99	123.70
1	AA	5457	DA	C4-C5-C6	5.89	119.94	117.00
1	AA	5545	DA	C5-C6-N6	-5.89	118.99	123.70
1	AA	5670	DA	C4-C5-C6	5.89	119.94	117.00
1	AA	5885	DA	C5-C6-N6	-5.89	118.99	123.70
1	AA	6872	DA	C5-C6-N6	-5.89	118.99	123.70
9	A7	8	DA	C4-C5-C6	5.89	119.94	117.00
13	AD	23	DA	C5-C6-N6	-5.89	118.99	123.70
23	AN	25	DA	C4-C5-C6	5.89	119.94	117.00
23	AN	41	DA	C4-C5-C6	5.89	119.94	117.00
31	AV	18	DA	C4-C5-C6	5.89	119.94	117.00
32	AW	12	DC	N3-C4-N4	5.89	122.12	118.00
52	Aw	42	DA	C5-C6-N6	-5.89	118.99	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
53	Ax	12	DA	C4-C5-C6	5.89	119.94	117.00
53	Ax	34	DC	N3-C4-N4	5.89	122.12	118.00
83	BS	28	DC	N3-C4-N4	5.89	122.12	118.00
88	BX	37	DA	C5-C6-N6	-5.89	118.99	123.70
91	Ba	14	DA	C4-C5-C6	5.89	119.94	117.00
105	Bo	1	DA	C4-C5-C6	5.89	119.94	117.00
137	CT	39	DC	N3-C4-N4	5.89	122.12	118.00
159	Cw	32	DA	C5-C6-N6	-5.89	118.99	123.70
1	AA	498	DA	C4-C5-C6	5.89	119.94	117.00
1	AA	946	DA	C4-C5-C6	5.89	119.94	117.00
1	AA	1480	DA	C4-C5-C6	5.89	119.94	117.00
1	AA	2254	DA	C4-C5-C6	5.89	119.94	117.00
1	AA	5158	DA	C4-C5-C6	5.89	119.94	117.00
1	AA	5383	DA	C5-C6-N1	-5.89	114.76	117.70
1	AA	5497	DC	N3-C4-N4	5.89	122.12	118.00
1	AA	5566	DA	C5-C6-N6	-5.89	118.99	123.70
14	AE	2	DA	C4-C5-C6	5.89	119.94	117.00
20	AK	16	DA	C5-C6-N1	-5.89	114.76	117.70
28	AS	11	DA	C4-C5-C6	5.89	119.94	117.00
57	B1	47	DA	C4-C5-C6	5.89	119.94	117.00
70	BF	29	DA	C4-C5-C6	5.89	119.94	117.00
94	Bd	47	DA	C5-C6-N6	-5.89	118.99	123.70
1	AA	456	DA	C4-C5-C6	5.89	119.94	117.00
1	AA	1701	DA	C4-C5-C6	5.89	119.94	117.00
1	AA	1943	DA	C4-C5-C6	5.89	119.94	117.00
1	AA	2376	DA	C4-C5-C6	5.89	119.94	117.00
1	AA	2583	DC	C2-N1-C1'	5.89	125.28	118.80
1	AA	4461	DA	C5-C6-N6	-5.89	118.99	123.70
1	AA	5106	DA	C5-C6-N6	-5.89	118.99	123.70
1	AA	5109	DC	N3-C4-N4	5.89	122.12	118.00
12	AC	27	DA	C5-C6-N6	-5.89	118.99	123.70
19	AJ	22	DA	C4-C5-C6	5.89	119.94	117.00
22	AM	28	DA	C4-C5-C6	5.89	119.94	117.00
24	AO	44	DA	C5-C6-N6	-5.89	118.99	123.70
29	AT	45	DA	C4-C5-C6	5.89	119.94	117.00
30	AU	2	DA	C5-C6-N6	-5.89	118.99	123.70
30	AU	48	DA	C4-C5-C6	5.89	119.94	117.00
35	AZ	5	DA	C4-C5-C6	5.89	119.94	117.00
37	Ac	1	DA	C5-C6-N6	-5.89	118.99	123.70
58	B2	36	DA	C4-C5-C6	5.89	119.94	117.00
66	BB	2	DC	N3-C4-N4	5.89	122.12	118.00
102	Bl	29	DA	C4-C5-C6	5.89	119.94	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
103	Bm	48	DA	C5-C6-N6	-5.89	118.99	123.70
113	C3	19	DC	N3-C4-N4	5.89	122.12	118.00
121	CD	45	DA	C5-C6-N1	-5.89	114.76	117.70
126	CI	23	DA	C4-C5-C6	5.89	119.94	117.00
157	Cu	36	DA	C5-C6-N1	-5.89	114.76	117.70
157	Cu	39	DA	C4-C5-C6	5.89	119.94	117.00
157	Cu	44	DA	C4-C5-C6	5.89	119.94	117.00
1	AA	539	DA	C5-C6-N6	-5.88	118.99	123.70
1	AA	627	DA	C4-C5-C6	5.88	119.94	117.00
1	AA	1101	DA	C5-C6-N6	-5.88	118.99	123.70
1	AA	2848	DA	C5-C6-N1	-5.88	114.76	117.70
1	AA	4126	DC	P-O5'-C5'	-5.88	111.48	120.90
1	AA	4344	DA	C4-C5-C6	5.88	119.94	117.00
1	AA	4739	DA	C5-C6-N6	-5.88	118.99	123.70
1	AA	5014	DA	C5-C6-N6	-5.88	118.99	123.70
1	AA	5563	DA	C5-C6-N6	-5.88	118.99	123.70
1	AA	5572	DA	C5-C6-N6	-5.88	118.99	123.70
1	AA	6209	DA	C4-C5-C6	5.88	119.94	117.00
10	A8	33	DA	C5-C6-N6	-5.88	118.99	123.70
26	AQ	34	DA	C5-C6-N6	-5.88	118.99	123.70
58	B2	17	DA	C4-C5-C6	5.88	119.94	117.00
59	B3	28	DA	C4-C5-C6	5.88	119.94	117.00
64	B8	5	DC	N3-C4-N4	5.88	122.12	118.00
80	BP	26	DA	C5-C6-N6	-5.88	118.99	123.70
91	Ba	23	DA	C5-C6-N6	-5.88	118.99	123.70
99	Bi	19	DA	C4-C5-C6	5.88	119.94	117.00
102	Bl	2	DA	C5-C6-N6	-5.88	118.99	123.70
104	Bn	49	DC	N3-C4-C5	-5.88	119.55	121.90
133	CP	44	DC	O4'-C1'-C2'	-5.88	101.19	105.90
135	CR	14	DA	C4-C5-C6	5.88	119.94	117.00
1	AA	5542	DA	C4-C5-C6	5.88	119.94	117.00
5	A3	7	DA	C4-C5-C6	5.88	119.94	117.00
19	AJ	41	DA	C4-C5-C6	5.88	119.94	117.00
21	AL	5	DA	C5-C6-N6	-5.88	118.99	123.70
27	AR	34	DA	C4-C5-C6	5.88	119.94	117.00
39	Af	24	DA	C4-C5-C6	5.88	119.94	117.00
49	As	2	DA	C5-C6-N6	-5.88	118.99	123.70
62	B6	11	DA	C5-C6-N6	-5.88	118.99	123.70
69	BE	33	DT	O4'-C1'-N1	5.88	112.12	108.00
72	BH	3	DA	C5-C6-N1	-5.88	114.76	117.70
83	BS	47	DC	N3-C4-N4	5.88	122.12	118.00
121	CD	29	DG	O4'-C1'-N9	5.88	112.12	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
129	CL	22	DA	C4-C5-C6	5.88	119.94	117.00
1	AA	75	DA	C4-C5-C6	5.88	119.94	117.00
1	AA	474	DA	C4-C5-C6	5.88	119.94	117.00
1	AA	488	DA	C4-C5-C6	5.88	119.94	117.00
1	AA	831	DC	N3-C4-N4	5.88	122.12	118.00
1	AA	1502	DA	C4-C5-C6	5.88	119.94	117.00
1	AA	1605	DA	C4-C5-C6	5.88	119.94	117.00
1	AA	2291	DA	C4-C5-C6	5.88	119.94	117.00
1	AA	2446	DA	C4-C5-C6	5.88	119.94	117.00
1	AA	2848	DA	C4-C5-C6	5.88	119.94	117.00
1	AA	3043	DC	N3-C4-N4	5.88	122.12	118.00
1	AA	4810	DC	N3-C4-N4	5.88	122.12	118.00
1	AA	5566	DA	C4-C5-C6	5.88	119.94	117.00
1	AA	6322	DC	N3-C4-N4	5.88	122.12	118.00
1	AA	6345	DA	C4-C5-C6	5.88	119.94	117.00
24	AO	2	DA	C4-C5-C6	5.88	119.94	117.00
26	AQ	16	DA	O4'-C1'-N9	5.88	112.12	108.00
32	AW	19	DC	N3-C4-N4	5.88	122.12	118.00
32	AW	47	DA	C4-C5-C6	5.88	119.94	117.00
40	Ag	7	DA	C5-C6-N1	-5.88	114.76	117.70
43	Aj	35	DA	C5-C6-N6	-5.88	119.00	123.70
55	Az	7	DA	C5-C6-N6	-5.88	119.00	123.70
65	B9	13	DA	C5-C6-N6	-5.88	118.99	123.70
76	BL	48	DA	C5-C6-N1	-5.88	114.76	117.70
89	BY	19	DA	C4-C5-C6	5.88	119.94	117.00
89	BY	25	DC	N3-C4-N4	5.88	122.12	118.00
91	Ba	45	DC	N3-C4-C5	-5.88	119.55	121.90
96	Bf	36	DA	C4-C5-C6	5.88	119.94	117.00
138	CU	17	DA	C4-C5-C6	5.88	119.94	117.00
150	Ch	29	DC	N3-C4-N4	5.88	122.12	118.00
155	Cs	43	DA	C4-C5-C6	5.88	119.94	117.00
1	AA	1523	DC	N3-C4-N4	5.88	122.12	118.00
1	AA	2250	DC	N3-C4-N4	5.88	122.12	118.00
1	AA	2966	DA	C4-C5-C6	5.88	119.94	117.00
1	AA	4175	DA	C5-C6-N6	-5.88	119.00	123.70
1	AA	5085	DC	P-O5'-C5'	5.88	130.31	120.90
1	AA	7189	DA	C4-C5-C6	5.88	119.94	117.00
17	AH	3	DA	C5-C6-N6	-5.88	119.00	123.70
30	AU	31	DA	C4-C5-C6	5.88	119.94	117.00
47	An	9	DA	C4-C5-C6	5.88	119.94	117.00
106	Bp	1	DA	C5-C6-N6	-5.88	119.00	123.70
107	Bq	47	DA	C4-C5-C6	5.88	119.94	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
113	C3	28	DA	C4-C5-C6	5.88	119.94	117.00
117	C7	44	DA	C5-C6-N6	-5.88	119.00	123.70
141	CX	29	DC	N3-C4-C5	-5.88	119.55	121.90
161	Cy	17	DA	C4-C5-C6	5.88	119.94	117.00
1	AA	255	DA	C5-C6-N6	-5.88	119.00	123.70
1	AA	602	DA	C5-C6-N6	-5.88	119.00	123.70
1	AA	672	DA	C4-C5-C6	5.88	119.94	117.00
1	AA	1224	DC	N3-C4-N4	5.88	122.11	118.00
1	AA	1235	DA	O4'-C1'-C2'	-5.88	101.20	105.90
1	AA	1471	DA	C3'-C2'-C1'	-5.88	95.45	102.50
1	AA	1597	DC	N3-C4-N4	5.88	122.11	118.00
1	AA	3003	DA	C4-C5-C6	5.88	119.94	117.00
1	AA	4181	DA	C4-C5-C6	5.88	119.94	117.00
1	AA	5224	DC	N3-C4-N4	5.88	122.11	118.00
1	AA	5274	DA	C4-C5-C6	5.88	119.94	117.00
1	AA	6045	DA	C5-C6-N6	-5.88	119.00	123.70
1	AA	6145	DA	C4-C5-C6	5.88	119.94	117.00
1	AA	6696	DG	C1'-O4'-C4'	-5.88	104.22	110.10
1	AA	6924	DA	C4-C5-C6	5.88	119.94	117.00
25	AP	15	DA	C5-C6-N1	-5.88	114.76	117.70
57	B1	8	DA	C4-C5-C6	5.88	119.94	117.00
61	B5	21	DA	C4-C5-C6	5.88	119.94	117.00
70	BF	31	DA	C5-C6-N6	-5.88	119.00	123.70
73	BI	11	DA	C4-C5-C6	5.88	119.94	117.00
101	Bk	65	DA	C4-C5-C6	5.88	119.94	117.00
118	C8	3	DA	C5-C6-N6	-5.88	119.00	123.70
126	CI	30	DA	O4'-C1'-N9	5.88	112.11	108.00
127	CJ	6	DA	C4-C5-C6	5.88	119.94	117.00
155	Cs	11	DA	C4-C5-C6	5.88	119.94	117.00
1	AA	267	DG	O4'-C1'-C2'	-5.88	101.20	105.90
1	AA	657	DA	C4-C5-C6	5.88	119.94	117.00
1	AA	1659	DT	O4'-C1'-C2'	-5.88	101.20	105.90
1	AA	1780	DA	C4-C5-C6	5.88	119.94	117.00
1	AA	2759	DA	C4-C5-C6	5.88	119.94	117.00
1	AA	2772	DC	O4'-C1'-C2'	-5.88	101.20	105.90
1	AA	2819	DA	C4-C5-C6	5.88	119.94	117.00
1	AA	3490	DA	C4-C5-C6	5.88	119.94	117.00
1	AA	3633	DA	C4-C5-C6	5.88	119.94	117.00
1	AA	4460	DA	C4-C5-C6	5.88	119.94	117.00
1	AA	5690	DA	C5-C6-N6	-5.88	119.00	123.70
1	AA	5907	DA	C4-C5-C6	5.88	119.94	117.00
1	AA	6301	DA	C4-C5-C6	5.88	119.94	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	A5	22	DA	C5-C6-N6	-5.88	119.00	123.70
20	AK	44	DA	C5-C6-N1	-5.88	114.76	117.70
25	AP	28	DA	C4-C5-C6	5.88	119.94	117.00
29	AT	19	DA	C4-C5-C6	5.88	119.94	117.00
49	As	22	DC	N3-C4-N4	5.88	122.11	118.00
49	As	43	DA	C4-C5-C6	5.88	119.94	117.00
50	Au	9	DA	C5-C6-N6	-5.88	119.00	123.70
58	B2	3	DA	C5-C6-N6	-5.88	119.00	123.70
67	BC	1	DA	C4-C5-C6	5.88	119.94	117.00
98	Bh	2	DA	C4-C5-C6	5.88	119.94	117.00
100	Bj	28	DA	C4-C5-C6	5.88	119.94	117.00
110	C0	18	DA	C4-C5-C6	5.88	119.94	117.00
117	C7	30	DA	C4-C5-C6	5.88	119.94	117.00
139	CV	33	DA	C5-C6-N6	-5.88	119.00	123.70
147	Ce	4	DA	C4-C5-C6	5.88	119.94	117.00
1	AA	138	DA	C4-C5-C6	5.88	119.94	117.00
1	AA	387	DC	N3-C4-N4	5.88	122.11	118.00
1	AA	582	DA	C4-C5-C6	5.88	119.94	117.00
1	AA	867	DA	C4-C5-C6	5.88	119.94	117.00
1	AA	4720	DA	C5-C6-N6	-5.88	119.00	123.70
1	AA	5123	DA	C5-C6-N6	-5.88	119.00	123.70
1	AA	5449	DA	C4-C5-C6	5.88	119.94	117.00
9	A7	43	DA	C5-C6-N6	-5.88	119.00	123.70
17	AH	9	DA	C5-C6-N6	-5.88	119.00	123.70
20	AK	39	DC	O4'-C1'-N1	5.88	112.11	108.00
22	AM	19	DC	N3-C4-N4	5.88	122.11	118.00
26	AQ	36	DA	C4-C5-C6	5.88	119.94	117.00
77	BM	24	DA	C4-C5-C6	5.88	119.94	117.00
81	BQ	27	DA	C4-C5-C6	5.88	119.94	117.00
95	Be	28	DT	C1'-O4'-C4'	-5.88	104.22	110.10
120	CC	7	DA	C4-C5-C6	5.88	119.94	117.00
1	AA	170	DA	C4-C5-C6	5.87	119.94	117.00
1	AA	650	DA	C4-C5-C6	5.87	119.94	117.00
1	AA	1005	DA	C4-C5-C6	5.87	119.94	117.00
1	AA	1321	DC	N3-C4-N4	5.87	122.11	118.00
1	AA	1541	DA	C4-C5-C6	5.87	119.94	117.00
1	AA	1933	DA	C4-C5-C6	5.87	119.94	117.00
1	AA	1946	DA	C4-C5-C6	5.87	119.94	117.00
1	AA	2623	DA	C5-C6-N6	-5.87	119.00	123.70
1	AA	2784	DA	C4-C5-C6	5.87	119.94	117.00
1	AA	3054	DA	C4-C5-C6	5.87	119.94	117.00
1	AA	3222	DA	P-O3'-C3'	5.87	126.75	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3409	DA	C4-C5-C6	5.87	119.94	117.00
1	AA	3499	DC	N3-C4-C5	-5.87	119.55	121.90
1	AA	3659	DA	C4-C5-C6	5.87	119.94	117.00
1	AA	3946	DA	C4-C5-C6	5.87	119.94	117.00
1	AA	4120	DA	C4-C5-C6	5.87	119.94	117.00
1	AA	4367	DA	C4-C5-C6	5.87	119.94	117.00
1	AA	5223	DC	N3-C4-N4	5.87	122.11	118.00
1	AA	5433	DA	C4-C5-C6	5.87	119.94	117.00
1	AA	5815	DA	C5-C6-N6	-5.87	119.00	123.70
1	AA	6556	DA	C4-C5-C6	5.87	119.94	117.00
1	AA	6966	DA	C5-C6-N6	-5.87	119.00	123.70
4	A2	5	DC	O4'-C1'-C2'	-5.87	101.20	105.90
6	A4	35	DA	C4-C5-C6	5.87	119.94	117.00
10	A8	37	DA	C4-C5-C6	5.87	119.94	117.00
24	AO	28	DT	P-O5'-C5'	5.87	130.30	120.90
32	AW	42	DA	C5-C6-N6	-5.87	119.00	123.70
32	AW	43	DA	C5-C6-N6	-5.87	119.00	123.70
60	B4	36	DA	C5-C6-N6	-5.87	119.00	123.70
67	BC	9	DA	C4-C5-C6	5.87	119.94	117.00
75	BK	15	DA	C4-C5-C6	5.87	119.94	117.00
94	Bd	50	DA	C4-C5-C6	5.87	119.94	117.00
100	Bj	18	DC	N3-C4-C5	-5.87	119.55	121.90
102	Bl	22	DA	C4-C5-C6	5.87	119.94	117.00
119	CB	10	DA	C4-C5-C6	5.87	119.94	117.00
124	CG	20	DA	C4-C5-C6	5.87	119.94	117.00
126	CI	18	DA	C4-C5-C6	5.87	119.94	117.00
151	Ck	30	DT	C1'-O4'-C4'	-5.87	104.23	110.10
158	Cv	31	DA	C4-C5-C6	5.87	119.94	117.00
1	AA	133	DG	O4'-C1'-C2'	-5.87	101.20	105.90
1	AA	163	DT	C1'-O4'-C4'	-5.87	104.23	110.10
1	AA	307	DA	C4-C5-C6	5.87	119.94	117.00
1	AA	1983	DA	C4-C5-C6	5.87	119.94	117.00
1	AA	2564	DA	C4-C5-C6	5.87	119.94	117.00
1	AA	2808	DA	C5-C6-N6	-5.87	119.00	123.70
1	AA	3097	DA	C5-C6-N6	-5.87	119.00	123.70
1	AA	3183	DA	C4-C5-C6	5.87	119.94	117.00
1	AA	3412	DC	N3-C4-N4	5.87	122.11	118.00
1	AA	4399	DA	C4-C5-C6	5.87	119.94	117.00
1	AA	4475	DA	C4-C5-C6	5.87	119.94	117.00
1	AA	4823	DA	C4-C5-C6	5.87	119.94	117.00
1	AA	4844	DA	C5-C6-N6	-5.87	119.00	123.70
1	AA	5783	DC	N3-C4-N4	5.87	122.11	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6826	DA	C4-C5-C6	5.87	119.94	117.00
1	AA	7133	DT	P-O3'-C3'	5.87	126.75	119.70
7	A5	19	DA	C4-C5-C6	5.87	119.94	117.00
12	AC	44	DA	C5-C6-N6	-5.87	119.00	123.70
13	AD	38	DC	N3-C4-C5	-5.87	119.55	121.90
39	Af	35	DC	P-O5'-C5'	-5.87	111.50	120.90
41	Ah	26	DA	C4-C5-C6	5.87	119.94	117.00
52	Aw	27	DA	C4-C5-C6	5.87	119.94	117.00
54	Ay	33	DA	C4-C5-C6	5.87	119.94	117.00
65	B9	8	DA	C5-C6-N6	-5.87	119.00	123.70
67	BC	14	DA	C4-C5-C6	5.87	119.94	117.00
67	BC	39	DA	C5-C6-N6	-5.87	119.00	123.70
135	CR	10	DT	C1'-O4'-C4'	-5.87	104.23	110.10
148	Cf	7	DC	N3-C4-N4	5.87	122.11	118.00
155	Cs	5	DA	C5-C6-N6	-5.87	119.00	123.70
1	AA	1951	DA	C4-C5-C6	5.87	119.94	117.00
1	AA	2021	DA	C5-C6-N6	-5.87	119.00	123.70
1	AA	4060	DA	C4-C5-C6	5.87	119.94	117.00
1	AA	4499	DC	N3-C4-N4	5.87	122.11	118.00
1	AA	5126	DA	C5-C6-N1	-5.87	114.77	117.70
1	AA	6679	DA	C4-C5-C6	5.87	119.94	117.00
7	A5	24	DC	N3-C4-N4	5.87	122.11	118.00
66	BB	7	DA	C5-C6-N6	-5.87	119.00	123.70
70	BF	5	DA	C4-C5-C6	5.87	119.94	117.00
90	BZ	26	DA	C4-C5-C6	5.87	119.94	117.00
90	BZ	29	DT	P-O3'-C3'	5.87	126.75	119.70
97	Bg	19	DC	O4'-C1'-C2'	-5.87	101.20	105.90
122	CE	16	DA	C4-C5-C6	5.87	119.94	117.00
125	CH	18	DC	C2-N1-C1'	5.87	125.26	118.80
152	Cp	31	DC	N3-C4-N4	5.87	122.11	118.00
1	AA	491	DA	C4-C5-C6	5.87	119.94	117.00
1	AA	888	DA	C5-C6-N6	-5.87	119.00	123.70
1	AA	988	DA	C4-C5-C6	5.87	119.94	117.00
1	AA	1210	DA	C5-C6-N6	-5.87	119.01	123.70
1	AA	1732	DA	C5-C6-N6	-5.87	119.00	123.70
1	AA	2010	DA	C4-C5-C6	5.87	119.93	117.00
1	AA	3504	DA	C5-C6-N6	-5.87	119.00	123.70
1	AA	3621	DA	C4-C5-C6	5.87	119.93	117.00
1	AA	4195	DA	C4-C5-C6	5.87	119.93	117.00
1	AA	4353	DA	C4-C5-C6	5.87	119.94	117.00
1	AA	5610	DA	C5-C6-N6	-5.87	119.00	123.70
1	AA	5856	DA	C4-C5-C6	5.87	119.93	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6148	DA	C4-C5-C6	5.87	119.93	117.00
2	A0	40	DA	C4-C5-C6	5.87	119.93	117.00
5	A3	27	DA	C4-C5-C6	5.87	119.93	117.00
16	AG	20	DC	N3-C4-N4	5.87	122.11	118.00
22	AM	10	DA	C4-C5-C6	5.87	119.94	117.00
31	AV	3	DC	N3-C4-N4	5.87	122.11	118.00
31	AV	17	DA	C4-C5-C6	5.87	119.93	117.00
33	AX	6	DA	C1'-O4'-C4'	-5.87	104.23	110.10
35	AZ	31	DC	N3-C4-N4	5.87	122.11	118.00
50	Au	40	DA	C4-C5-C6	5.87	119.93	117.00
51	Av	2	DA	C4-C5-C6	5.87	119.94	117.00
60	B4	39	DA	C5-C6-N6	-5.87	119.00	123.70
69	BE	61	DA	C5-C6-N6	-5.87	119.00	123.70
70	BF	24	DA	C5-C6-N6	-5.87	119.00	123.70
70	BF	28	DC	N3-C4-N4	5.87	122.11	118.00
82	BR	37	DA	C4-C5-C6	5.87	119.94	117.00
100	Bj	22	DC	N3-C4-N4	5.87	122.11	118.00
107	Bq	52	DA	C5-C6-N6	-5.87	119.01	123.70
110	C0	5	DC	O4'-C1'-C2'	-5.87	101.20	105.90
112	C2	42	DA	C4-C5-C6	5.87	119.93	117.00
124	CG	11	DT	C1'-O4'-C4'	-5.87	104.23	110.10
132	CO	29	DA	C4-C5-C6	5.87	119.93	117.00
133	CP	50	DC	N3-C4-N4	5.87	122.11	118.00
137	CT	21	DA	C5-C6-N6	-5.87	119.01	123.70
147	Ce	11	DA	C4-C5-C6	5.87	119.94	117.00
148	Cf	47	DA	C4-C5-C6	5.87	119.93	117.00
1	AA	2060	DA	C4-C5-C6	5.87	119.93	117.00
1	AA	4357	DA	C4-C5-C6	5.87	119.93	117.00
1	AA	5406	DA	C5-C6-N6	-5.87	119.01	123.70
1	AA	6971	DC	N3-C4-N4	5.87	122.11	118.00
13	AD	22	DA	C4-C5-C6	5.87	119.93	117.00
61	B5	25	DA	C4-C5-C6	5.87	119.93	117.00
77	BM	36	DC	N3-C4-N4	5.87	122.11	118.00
95	Be	45	DA	C4-C5-C6	5.87	119.93	117.00
101	Bk	25	DA	C5-C6-N6	-5.87	119.01	123.70
101	Bk	66	DA	C4-C5-C6	5.87	119.93	117.00
105	Bo	35	DA	C5-C6-N6	-5.87	119.01	123.70
106	Bp	4	DA	C4-C5-C6	5.87	119.93	117.00
118	C8	19	DT	O4'-C1'-C2'	-5.87	101.21	105.90
156	Ct	41	DA	C4-C5-C6	5.87	119.93	117.00
1	AA	243	DC	N3-C4-C5	-5.87	119.55	121.90
1	AA	4525	DA	C4-C5-C6	5.87	119.93	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6518	DA	C4-C5-C6	5.87	119.93	117.00
1	AA	6988	DA	C4-C5-C6	5.87	119.93	117.00
12	AC	17	DA	C4-C5-C6	5.87	119.93	117.00
17	AH	7	DA	C4-C5-C6	5.87	119.93	117.00
28	AS	38	DA	C4-C5-C6	5.87	119.93	117.00
28	AS	44	DA	C4-C5-C6	5.87	119.93	117.00
29	AT	24	DC	N3-C4-C5	-5.87	119.55	121.90
34	AY	30	DA	C4-C5-C6	5.87	119.93	117.00
37	Ac	32	DA	C4-C5-C6	5.87	119.93	117.00
45	Al	18	DA	C4-C5-C6	5.87	119.93	117.00
46	Am	24	DC	N3-C4-N4	5.87	122.11	118.00
54	Ay	34	DA	C4-C5-C6	5.87	119.93	117.00
60	B4	16	DA	C5-C6-N6	-5.87	119.01	123.70
65	B9	2	DC	N3-C4-N4	5.87	122.11	118.00
77	BM	41	DA	C4-C5-C6	5.87	119.93	117.00
92	Bb	19	DA	C5-C6-N6	-5.87	119.01	123.70
97	Bg	3	DA	C4-C5-C6	5.87	119.93	117.00
101	Bk	6	DA	O4'-C4'-C3'	-5.87	102.15	104.50
110	C0	38	DA	C5-C6-N6	-5.87	119.01	123.70
118	C8	1	DC	N3-C4-N4	5.87	122.11	118.00
121	CD	16	DC	P-O3'-C3'	5.87	126.74	119.70
121	CD	38	DA	C4-C5-C6	5.87	119.93	117.00
122	CE	4	DA	C4-C5-C6	5.87	119.93	117.00
125	CH	18	DC	N3-C4-N4	5.87	122.11	118.00
130	CM	50	DA	C4-C5-C6	5.87	119.93	117.00
141	CX	19	DA	C5-C6-N6	-5.87	119.01	123.70
143	CZ	33	DA	C4-C5-C6	5.87	119.93	117.00
149	Cg	46	DA	C5-C6-N6	-5.87	119.01	123.70
159	Cw	28	DA	C4-C5-C6	5.87	119.93	117.00
1	AA	565	DC	N3-C4-N4	5.86	122.11	118.00
1	AA	1735	DC	N3-C4-N4	5.86	122.10	118.00
1	AA	2721	DA	C4-C5-C6	5.86	119.93	117.00
1	AA	3026	DA	C4-C5-C6	5.86	119.93	117.00
1	AA	3429	DA	C5-C6-N6	-5.86	119.01	123.70
1	AA	4004	DC	N3-C4-N4	5.86	122.11	118.00
1	AA	4332	DA	C4-C5-C6	5.86	119.93	117.00
1	AA	4937	DC	N3-C4-N4	5.86	122.10	118.00
1	AA	5070	DA	C4-C5-C6	5.86	119.93	117.00
1	AA	5248	DA	C5-C6-N6	-5.86	119.01	123.70
2	A0	52	DA	C4-C5-C6	5.86	119.93	117.00
3	A1	32	DA	C4-C5-C6	5.86	119.93	117.00
12	AC	1	DA	C4-C5-C6	5.86	119.93	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
17	AH	43	DA	C4-C5-C6	5.86	119.93	117.00
18	AI	24	DA	C4-C5-C6	5.86	119.93	117.00
18	AI	39	DA	C5-C6-N6	-5.86	119.01	123.70
20	AK	23	DA	C4-C5-C6	5.86	119.93	117.00
44	Ak	12	DA	C5-C6-N6	-5.86	119.01	123.70
57	B1	33	DA	C4-C5-C6	5.86	119.93	117.00
59	B3	30	DC	N3-C4-N4	5.86	122.10	118.00
64	B8	17	DC	N3-C4-N4	5.86	122.10	118.00
86	BV	23	DA	C4-C5-C6	5.86	119.93	117.00
106	Bp	22	DA	C4-C5-C6	5.86	119.93	117.00
157	Cu	21	DC	N3-C4-N4	5.86	122.10	118.00
162	Cz	2	DC	N3-C4-N4	5.86	122.10	118.00
1	AA	959	DA	C4-C5-C6	5.86	119.93	117.00
1	AA	1098	DA	C4-C5-C6	5.86	119.93	117.00
1	AA	1140	DA	C5-C6-N6	-5.86	119.01	123.70
1	AA	1709	DA	C4-C5-C6	5.86	119.93	117.00
1	AA	2809	DC	C1'-O4'-C4'	-5.86	104.24	110.10
1	AA	2966	DA	P-O3'-C3'	5.86	126.73	119.70
1	AA	3002	DA	C4-C5-C6	5.86	119.93	117.00
11	AB	31	DA	C5-C6-N6	-5.86	119.01	123.70
42	Ai	42	DA	C5-C6-N6	-5.86	119.01	123.70
69	BE	68	DA	C5-C6-N1	-5.86	114.77	117.70
151	Ck	5	DA	C4-C5-C6	5.86	119.93	117.00
154	Cr	44	DA	C4-C5-C6	5.86	119.93	117.00
1	AA	138	DA	C5-C6-N6	-5.86	119.01	123.70
1	AA	359	DA	C4-C5-C6	5.86	119.93	117.00
1	AA	625	DA	C5-C6-N6	-5.86	119.01	123.70
1	AA	685	DA	C5-C6-N6	-5.86	119.01	123.70
1	AA	1598	DA	C4-C5-C6	5.86	119.93	117.00
1	AA	2084	DA	C5-C6-N6	-5.86	119.01	123.70
1	AA	4090	DC	C1'-O4'-C4'	-5.86	104.24	110.10
1	AA	6200	DA	C4-C5-C6	5.86	119.93	117.00
1	AA	6997	DA	C4-C5-C6	5.86	119.93	117.00
22	AM	2	DA	C5-C6-N6	-5.86	119.01	123.70
28	AS	15	DA	C4-C5-C6	5.86	119.93	117.00
31	AV	49	DA	C4-C5-C6	5.86	119.93	117.00
43	Aj	22	DA	C4-C5-C6	5.86	119.93	117.00
45	Al	48	DA	C4-C5-C6	5.86	119.93	117.00
56	B0	41	DA	C5-C6-N6	-5.86	119.01	123.70
67	BC	35	DA	C4-C5-C6	5.86	119.93	117.00
80	BP	61	DA	C5-C6-N6	-5.86	119.01	123.70
86	BV	30	DA	C5-C6-N6	-5.86	119.01	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
92	Bb	38	DA	C5-C6-N6	-5.86	119.01	123.70
95	Be	31	DA	C5-C6-N6	-5.86	119.01	123.70
128	CK	22	DA	C4-C5-C6	5.86	119.93	117.00
149	Cg	44	DA	C5-C6-N6	-5.86	119.01	123.70
154	Cr	3	DA	C4-C5-C6	5.86	119.93	117.00
1	AA	347	DA	C5-C6-N6	-5.86	119.01	123.70
1	AA	1420	DA	C4-C5-C6	5.86	119.93	117.00
1	AA	1482	DT	C4'-C3'-C2'	-5.86	97.83	103.10
1	AA	5131	DA	C4-C5-C6	5.86	119.93	117.00
1	AA	5275	DC	N3-C4-N4	5.86	122.10	118.00
1	AA	5653	DA	C4-C5-C6	5.86	119.93	117.00
1	AA	6751	DA	C5-C6-N6	-5.86	119.01	123.70
3	A1	29	DA	C5-C6-N6	-5.86	119.01	123.70
27	AR	60	DA	C4-C5-C6	5.86	119.93	117.00
28	AS	16	DA	C5-C6-N6	-5.86	119.01	123.70
39	Af	28	DA	C5-C6-N6	-5.86	119.01	123.70
71	BG	24	DA	C4-C5-C6	5.86	119.93	117.00
77	BM	18	DA	C4-C5-C6	5.86	119.93	117.00
116	C6	3	DT	O4'-C1'-N1	5.86	112.10	108.00
1	AA	837	DA	C4-C5-C6	5.86	119.93	117.00
1	AA	860	DA	C4-C5-C6	5.86	119.93	117.00
1	AA	3312	DA	C4-C5-C6	5.86	119.93	117.00
1	AA	4618	DC	N3-C4-C5	-5.86	119.56	121.90
1	AA	5415	DA	C4-C5-C6	5.86	119.93	117.00
1	AA	6114	DA	C4-C5-C6	5.86	119.93	117.00
1	AA	6406	DA	C4-C5-C6	5.86	119.93	117.00
1	AA	6416	DG	C1'-O4'-C4'	-5.86	104.24	110.10
1	AA	6958	DA	C1'-O4'-C4'	-5.86	104.24	110.10
4	A2	45	DA	C4-C5-C6	5.86	119.93	117.00
7	A5	17	DC	N3-C4-N4	5.86	122.10	118.00
17	AH	26	DT	C1'-O4'-C4'	-5.86	104.24	110.10
29	AT	43	DA	C4-C5-C6	5.86	119.93	117.00
38	Ad	13	DC	N3-C4-C5	-5.86	119.56	121.90
42	Ai	11	DA	C5-C6-N6	-5.86	119.01	123.70
50	Au	33	DA	C5-C6-N6	-5.86	119.01	123.70
69	BE	58	DA	C4-C5-C6	5.86	119.93	117.00
93	Bc	37	DA	C4-C5-C6	5.86	119.93	117.00
129	CL	16	DA	C4-C5-C6	5.86	119.93	117.00
138	CU	12	DA	C4-C5-C6	5.86	119.93	117.00
139	CV	29	DC	C1'-O4'-C4'	-5.86	104.24	110.10
146	Cd	37	DA	C5-C6-N6	-5.86	119.02	123.70
154	Cr	30	DA	C4-C5-C6	5.86	119.93	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
158	Cv	28	DC	P-O3'-C3'	5.86	126.73	119.70
1	AA	413	DA	C4-C5-C6	5.86	119.93	117.00
1	AA	1176	DA	C4-C5-C6	5.86	119.93	117.00
1	AA	1586	DA	C4-C5-C6	5.86	119.93	117.00
1	AA	2257	DA	C4-C5-C6	5.86	119.93	117.00
1	AA	2781	DA	C4-C5-C6	5.86	119.93	117.00
1	AA	3667	DA	C4-C5-C6	5.86	119.93	117.00
1	AA	4012	DA	C4-C5-C6	5.86	119.93	117.00
1	AA	4783	DA	C4-C5-C6	5.86	119.93	117.00
1	AA	5642	DA	C5-C6-N6	-5.86	119.02	123.70
1	AA	6216	DA	C4-C5-C6	5.86	119.93	117.00
1	AA	6836	DA	C5-C6-N6	-5.86	119.02	123.70
1	AA	7020	DC	O4'-C4'-C3'	-5.86	102.16	104.50
6	A4	46	DA	C4-C5-C6	5.86	119.93	117.00
21	AL	6	DA	C5-C6-N6	-5.86	119.02	123.70
24	AO	40	DA	C4-C5-C6	5.86	119.93	117.00
33	AX	48	DA	C5-C6-N1	-5.86	114.77	117.70
35	AZ	45	DA	C4-C5-C6	5.86	119.93	117.00
55	Az	7	DA	C4-C5-C6	5.86	119.93	117.00
78	BN	25	DA	C4-C5-C6	5.86	119.93	117.00
82	BR	43	DA	C5-C6-N6	-5.86	119.02	123.70
88	BX	11	DA	C4-C5-C6	5.86	119.93	117.00
88	BX	18	DA	C5-C6-N6	-5.86	119.02	123.70
89	BY	46	DA	C5-C6-N6	-5.86	119.02	123.70
95	Be	15	DA	C4-C5-C6	5.86	119.93	117.00
99	Bi	18	DA	C4-C5-C6	5.86	119.93	117.00
124	CG	31	DA	C4-C5-C6	5.86	119.93	117.00
134	CQ	31	DA	C5-C6-N1	-5.86	114.77	117.70
150	Ch	14	DA	C5-C6-N1	-5.86	114.77	117.70
1	AA	3089	DC	O4'-C4'-C3'	-5.85	102.16	104.50
1	AA	4831	DA	C4-C5-C6	5.85	119.93	117.00
1	AA	4950	DA	C5-C6-N6	-5.85	119.02	123.70
1	AA	5057	DA	C4-C5-C6	5.85	119.93	117.00
1	AA	5501	DA	C4-C5-C6	5.85	119.93	117.00
1	AA	6194	DA	C4-C5-C6	5.85	119.93	117.00
1	AA	6584	DC	N3-C4-N4	5.85	122.10	118.00
3	A1	6	DA	C5-C6-N6	-5.85	119.02	123.70
101	Bk	32	DA	C4-C5-C6	5.85	119.93	117.00
111	C1	12	DA	C4-C5-C6	5.85	119.93	117.00
113	C3	29	DA	C5-C6-N6	-5.85	119.02	123.70
124	CG	40	DA	C5-C6-N6	-5.85	119.02	123.70
162	Cz	32	DC	N3-C4-N4	5.85	122.10	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	37	DA	C5-C6-N6	-5.85	119.02	123.70
1	AA	1634	DC	N3-C4-N4	5.85	122.10	118.00
1	AA	2037	DA	C4-C5-C6	5.85	119.93	117.00
1	AA	4053	DA	C5-C6-N6	-5.85	119.02	123.70
1	AA	4238	DA	C4-C5-C6	5.85	119.93	117.00
1	AA	4825	DG	O4'-C1'-C2'	-5.85	101.22	105.90
1	AA	6925	DA	C4-C5-C6	5.85	119.93	117.00
1	AA	6959	DA	C4-C5-C6	5.85	119.93	117.00
1	AA	7136	DC	O4'-C1'-C2'	-5.85	101.22	105.90
12	AC	36	DA	C4-C5-C6	5.85	119.93	117.00
16	AG	38	DA	C4-C5-C6	5.85	119.93	117.00
37	Ac	36	DA	C4-C5-C6	5.85	119.93	117.00
37	Ac	64	DA	C4-C5-C6	5.85	119.93	117.00
42	Ai	4	DC	O4'-C1'-C2'	-5.85	101.22	105.90
49	As	35	DA	C4-C5-C6	5.85	119.93	117.00
56	B0	28	DA	C4-C5-C6	5.85	119.93	117.00
56	B0	41	DA	C4-C5-C6	5.85	119.93	117.00
66	BB	6	DA	C4-C5-C6	5.85	119.93	117.00
91	Ba	19	DA	C5-C6-N6	-5.85	119.02	123.70
95	Be	24	DA	C5-C6-N6	-5.85	119.02	123.70
96	Bf	10	DC	N3-C4-N4	5.85	122.10	118.00
100	Bj	33	DA	C4-C5-C6	5.85	119.93	117.00
102	Bl	39	DA	C4-C5-C6	5.85	119.93	117.00
126	CI	2	DA	C4-C5-C6	5.85	119.93	117.00
157	Cu	34	DA	C4-C5-C6	5.85	119.93	117.00
1	AA	1873	DA	C4-C5-C6	5.85	119.92	117.00
1	AA	3190	DA	C4-C5-C6	5.85	119.93	117.00
1	AA	3211	DA	C4-C5-C6	5.85	119.92	117.00
1	AA	4313	DC	N3-C4-N4	5.85	122.09	118.00
1	AA	5030	DT	P-O3'-C3'	5.85	126.72	119.70
1	AA	6808	DA	C4-C5-C6	5.85	119.92	117.00
7	A5	30	DA	C5-C6-N6	-5.85	119.02	123.70
37	Ac	11	DA	C4-C5-C6	5.85	119.92	117.00
72	BH	18	DA	C5-C6-N6	-5.85	119.02	123.70
72	BH	22	DA	C4-C5-C6	5.85	119.93	117.00
72	BH	39	DA	C4-C5-C6	5.85	119.93	117.00
84	BT	22	DA	C4-C5-C6	5.85	119.92	117.00
92	Bb	7	DG	O4'-C1'-N9	5.85	112.10	108.00
93	Bc	8	DC	N3-C4-N4	5.85	122.10	118.00
99	Bi	56	DA	C5-C6-N6	-5.85	119.02	123.70
109	Bs	1	DG	O4'-C1'-N9	5.85	112.09	108.00
114	C4	53	DA	C4-C5-C6	5.85	119.92	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
136	CS	36	DA	C5-C6-N6	-5.85	119.02	123.70
139	CV	9	DA	C4-C5-C6	5.85	119.93	117.00
1	AA	114	DA	C4-C5-C6	5.85	119.92	117.00
1	AA	860	DA	C5-C6-N6	-5.85	119.02	123.70
1	AA	2377	DA	C4-C5-C6	5.85	119.92	117.00
1	AA	3037	DA	C5-C6-N6	-5.85	119.02	123.70
1	AA	3199	DC	N3-C4-N4	5.85	122.09	118.00
1	AA	3222	DA	C4-C5-C6	5.85	119.92	117.00
1	AA	3570	DC	O4'-C1'-C2'	-5.85	101.22	105.90
1	AA	4332	DA	C5-C6-N6	-5.85	119.02	123.70
1	AA	4607	DA	C5-C6-N6	-5.85	119.02	123.70
1	AA	4782	DA	C4-C5-C6	5.85	119.92	117.00
1	AA	4939	DA	C5-C6-N6	-5.85	119.02	123.70
1	AA	5530	DA	C5-C6-N6	-5.85	119.02	123.70
1	AA	6512	DC	N3-C4-N4	5.85	122.09	118.00
1	AA	6586	DA	C4-C5-C6	5.85	119.92	117.00
9	A7	18	DA	C4-C5-C6	5.85	119.92	117.00
9	A7	40	DA	C4-C5-C6	5.85	119.92	117.00
14	AE	43	DA	C4-C5-C6	5.85	119.92	117.00
18	AI	23	DA	C4-C5-C6	5.85	119.92	117.00
31	AV	22	DA	C4-C5-C6	5.85	119.92	117.00
59	B3	14	DA	C5-C6-N6	-5.85	119.02	123.70
62	B6	34	DA	C4-C5-C6	5.85	119.92	117.00
63	B7	27	DA	C4-C5-C6	5.85	119.92	117.00
65	B9	6	DA	C4-C5-C6	5.85	119.92	117.00
73	BI	42	DA	C5-C6-N6	-5.85	119.02	123.70
99	Bi	34	DA	C4-C5-C6	5.85	119.92	117.00
107	Bq	4	DC	P-O3'-C3'	5.85	126.72	119.70
117	C7	37	DA	C4-C5-C6	5.85	119.92	117.00
127	CJ	39	DA	C4-C5-C6	5.85	119.92	117.00
135	CR	41	DA	C5-C6-N6	-5.85	119.02	123.70
143	CZ	8	DA	C5-C6-N6	-5.85	119.02	123.70
148	Cf	29	DA	C4-C5-C6	5.85	119.92	117.00
150	Ch	10	DA	C5-C6-N6	-5.85	119.02	123.70
160	Cx	2	DA	C4-C5-C6	5.85	119.92	117.00
162	Cz	19	DA	C5-C6-N6	-5.85	119.02	123.70
1	AA	252	DA	C4-C5-C6	5.85	119.92	117.00
1	AA	736	DA	C4-C5-C6	5.85	119.92	117.00
1	AA	796	DC	N3-C4-N4	5.85	122.09	118.00
1	AA	1202	DA	C4-C5-C6	5.85	119.92	117.00
1	AA	1396	DC	N3-C4-N4	5.85	122.09	118.00
1	AA	1983	DA	C5-C6-N6	-5.85	119.02	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2346	DA	C4-C5-C6	5.85	119.92	117.00
1	AA	2472	DA	C4-C5-C6	5.85	119.92	117.00
1	AA	3176	DA	C4-C5-C6	5.85	119.92	117.00
1	AA	3194	DA	P-O3'-C3'	5.85	126.72	119.70
1	AA	3763	DA	C4-C5-C6	5.85	119.92	117.00
1	AA	4158	DA	C4-C5-C6	5.85	119.92	117.00
1	AA	4265	DA	C4-C5-C6	5.85	119.92	117.00
1	AA	4305	DG	O4'-C1'-C2'	-5.85	101.22	105.90
1	AA	6343	DA	C4-C5-C6	5.85	119.92	117.00
1	AA	6742	DA	C5-C6-N6	-5.85	119.02	123.70
11	AB	18	DA	C4-C5-C6	5.85	119.92	117.00
15	AF	37	DA	C5-C6-N6	-5.85	119.02	123.70
27	AR	43	DA	C4-C5-C6	5.85	119.92	117.00
41	Ah	44	DC	N3-C4-N4	5.85	122.09	118.00
63	B7	10	DA	C4-C5-C6	5.85	119.92	117.00
67	BC	14	DA	P-O3'-C3'	5.85	126.72	119.70
78	BN	9	DA	C4-C5-C6	5.85	119.92	117.00
79	BO	26	DA	P-O3'-C3'	-5.85	112.68	119.70
90	BZ	65	DA	C5-C6-N6	-5.85	119.02	123.70
113	C3	18	DA	C5-C6-N6	-5.85	119.02	123.70
126	CI	27	DA	C4-C5-C6	5.85	119.92	117.00
131	CN	2	DA	C4-C5-C6	5.85	119.92	117.00
145	Cc	45	DA	C4-C5-C6	5.85	119.92	117.00
160	Cx	7	DA	C4-C5-C6	5.85	119.92	117.00
1	AA	921	DA	C1'-O4'-C4'	-5.85	104.25	110.10
1	AA	932	DA	C5-C6-N1	-5.85	114.78	117.70
1	AA	2167	DA	C4-C5-C6	5.85	119.92	117.00
1	AA	2682	DA	C5-C6-N6	-5.85	119.02	123.70
1	AA	3736	DA	C5-C6-N6	-5.85	119.02	123.70
1	AA	4255	DA	C5-C6-N1	-5.85	114.78	117.70
1	AA	4363	DC	N3-C4-N4	5.85	122.09	118.00
1	AA	4803	DA	C5-C6-N6	-5.85	119.02	123.70
1	AA	7235	DA	C4-C5-C6	5.85	119.92	117.00
12	AC	16	DC	N3-C4-N4	5.85	122.09	118.00
34	AY	1	DA	C4-C5-C6	5.85	119.92	117.00
35	AZ	19	DA	C4-C5-C6	5.85	119.92	117.00
41	Ah	25	DA	C4-C5-C6	5.85	119.92	117.00
65	B9	5	DA	C4-C5-C6	5.85	119.92	117.00
69	BE	56	DA	C4-C5-C6	5.85	119.92	117.00
104	Bn	37	DA	C5-C6-N6	-5.85	119.02	123.70
105	Bo	60	DC	N3-C4-N4	5.85	122.09	118.00
122	CE	14	DA	C5-C6-N6	-5.85	119.02	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
130	CM	49	DA	C5-C6-N6	-5.85	119.02	123.70
134	CQ	23	DA	C5-C6-N6	-5.85	119.02	123.70
148	Cf	25	DA	C5-C6-N6	-5.85	119.02	123.70
155	Cs	44	DA	C4-C5-C6	5.85	119.92	117.00
160	Cx	38	DA	C4-C5-C6	5.85	119.92	117.00
162	Cz	5	DC	O4'-C1'-N1	5.85	112.09	108.00
1	AA	622	DA	C4-C5-C6	5.84	119.92	117.00
1	AA	1820	DA	C5-C6-N6	-5.84	119.02	123.70
1	AA	1927	DT	O4'-C1'-N1	5.84	112.09	108.00
1	AA	2225	DA	C4-C5-C6	5.84	119.92	117.00
1	AA	2554	DC	O4'-C1'-C2'	-5.84	101.22	105.90
1	AA	2910	DC	N3-C4-N4	5.84	122.09	118.00
1	AA	4312	DC	O4'-C1'-C2'	-5.84	101.22	105.90
1	AA	4481	DA	C4-C5-C6	5.84	119.92	117.00
1	AA	5632	DA	C5-C6-N6	-5.84	119.02	123.70
2	A0	31	DC	N3-C4-N4	5.84	122.09	118.00
4	A2	12	DA	C4-C5-C6	5.84	119.92	117.00
20	AK	41	DA	C5-C6-N1	-5.84	114.78	117.70
20	AK	42	DC	N3-C4-N4	5.84	122.09	118.00
32	AW	41	DC	N3-C4-N4	5.84	122.09	118.00
66	BB	27	DA	C4-C5-C6	5.84	119.92	117.00
103	Bm	25	DA	C5-C6-N6	-5.84	119.03	123.70
106	Bp	30	DG	C1'-O4'-C4'	-5.84	104.26	110.10
132	CO	10	DA	C4-C5-C6	5.84	119.92	117.00
137	CT	32	DA	C4-C5-C6	5.84	119.92	117.00
147	Ce	10	DT	O3'-P-O5'	-5.84	92.89	104.00
147	Ce	21	DC	N3-C4-N4	5.84	122.09	118.00
147	Ce	46	DA	P-O3'-C3'	5.84	126.71	119.70
161	Cy	65	DA	C4-C5-C6	5.84	119.92	117.00
1	AA	622	DA	C5-C6-N6	-5.84	119.03	123.70
1	AA	1168	DA	C4-C5-C6	5.84	119.92	117.00
1	AA	1611	DA	C4-C5-C6	5.84	119.92	117.00
1	AA	2337	DA	C4-C5-C6	5.84	119.92	117.00
1	AA	2581	DC	N3-C4-N4	5.84	122.09	118.00
1	AA	4915	DC	N3-C4-N4	5.84	122.09	118.00
1	AA	5142	DT	O4'-C1'-N1	5.84	112.09	108.00
1	AA	5347	DA	C4-C5-C6	5.84	119.92	117.00
1	AA	6331	DA	C4-C5-C6	5.84	119.92	117.00
22	AM	2	DA	O4'-C1'-N9	5.84	112.09	108.00
26	AQ	48	DC	N3-C4-N4	5.84	122.09	118.00
42	Ai	44	DA	C4-C5-C6	5.84	119.92	117.00
52	Aw	21	DA	C4-C5-C6	5.84	119.92	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
97	Bg	35	DC	N3-C4-N4	5.84	122.09	118.00
116	C6	32	DA	C4-C5-C6	5.84	119.92	117.00
120	CC	20	DA	C4-C5-C6	5.84	119.92	117.00
139	CV	18	DA	C4-C5-C6	5.84	119.92	117.00
142	CY	20	DA	C4-C5-C6	5.84	119.92	117.00
145	Cc	38	DC	N3-C4-N4	5.84	122.09	118.00
1	AA	226	DA	C5-C6-N6	-5.84	119.03	123.70
1	AA	331	DA	C5-C6-N6	-5.84	119.03	123.70
1	AA	3235	DA	C5-C6-N6	-5.84	119.03	123.70
1	AA	4151	DA	C4-C5-C6	5.84	119.92	117.00
1	AA	4952	DA	C5-C6-N1	-5.84	114.78	117.70
1	AA	5605	DA	C4-C5-C6	5.84	119.92	117.00
1	AA	5815	DA	C4-C5-C6	5.84	119.92	117.00
1	AA	6242	DA	C4-C5-C6	5.84	119.92	117.00
1	AA	6374	DA	C4-C5-C6	5.84	119.92	117.00
1	AA	6657	DA	C4-C5-C6	5.84	119.92	117.00
8	A6	47	DA	C5-C6-N6	-5.84	119.03	123.70
11	AB	34	DA	C4-C5-C6	5.84	119.92	117.00
20	AK	55	DC	N3-C4-C5	-5.84	119.56	121.90
24	AO	42	DA	C4-C5-C6	5.84	119.92	117.00
80	BP	66	DA	C4-C5-C6	5.84	119.92	117.00
90	BZ	28	DA	C5-C6-N1	-5.84	114.78	117.70
96	Bf	32	DA	C4-C5-C6	5.84	119.92	117.00
129	CL	20	DA	C4-C5-C6	5.84	119.92	117.00
136	CS	7	DA	C4-C5-C6	5.84	119.92	117.00
142	CY	35	DC	N3-C4-N4	5.84	122.09	118.00
145	Cc	35	DA	C4-C5-C6	5.84	119.92	117.00
150	Ch	14	DA	C4-C5-C6	5.84	119.92	117.00
1	AA	49	DA	C4-C5-C6	5.84	119.92	117.00
1	AA	1307	DA	C4-C5-C6	5.84	119.92	117.00
1	AA	1683	DA	C4-C5-C6	5.84	119.92	117.00
1	AA	2627	DA	C4-C5-C6	5.84	119.92	117.00
1	AA	3572	DA	C4-C5-C6	5.84	119.92	117.00
1	AA	3922	DA	C4-C5-C6	5.84	119.92	117.00
1	AA	3976	DA	C4-C5-C6	5.84	119.92	117.00
1	AA	4661	DT	O4'-C1'-C2'	-5.84	101.23	105.90
1	AA	5134	DA	C4-C5-C6	5.84	119.92	117.00
1	AA	6022	DA	C4-C5-C6	5.84	119.92	117.00
1	AA	6969	DC	P-O3'-C3'	5.84	126.71	119.70
1	AA	7052	DA	C5-C6-N6	-5.84	119.03	123.70
6	A4	41	DA	C4-C5-C6	5.84	119.92	117.00
28	AS	57	DA	C4-C5-C6	5.84	119.92	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
33	AX	24	DC	N3-C4-N4	5.84	122.09	118.00
35	AZ	13	DA	C5-C6-N6	-5.84	119.03	123.70
39	Af	13	DA	C5-C6-N6	-5.84	119.03	123.70
50	Au	16	DA	C5-C6-N6	-5.84	119.03	123.70
64	B8	22	DA	C4-C5-C6	5.84	119.92	117.00
66	BB	7	DA	C4-C5-C6	5.84	119.92	117.00
97	Bg	39	DC	N3-C4-N4	5.84	122.09	118.00
101	Bk	22	DA	C4-C5-C6	5.84	119.92	117.00
111	C1	34	DA	C5-C6-N6	-5.84	119.03	123.70
123	CF	22	DC	N3-C4-C5	-5.84	119.56	121.90
132	CO	2	DA	C5-C6-N6	-5.84	119.03	123.70
137	CT	11	DT	C1'-O4'-C4'	-5.84	104.26	110.10
141	CX	15	DC	N3-C4-N4	5.84	122.09	118.00
143	CZ	7	DA	C4-C5-C6	5.84	119.92	117.00
1	AA	514	DC	N3-C4-N4	5.84	122.09	118.00
1	AA	839	DA	C4-C5-C6	5.84	119.92	117.00
1	AA	1325	DA	C5-C6-N6	-5.84	119.03	123.70
1	AA	1653	DA	C5-C6-N6	-5.84	119.03	123.70
1	AA	3222	DA	C5-C6-N1	-5.84	114.78	117.70
1	AA	5397	DC	N3-C4-N4	5.84	122.09	118.00
1	AA	6160	DA	C4-C5-C6	5.84	119.92	117.00
1	AA	6241	DA	O4'-C1'-N9	5.84	112.09	108.00
1	AA	6758	DA	C5-C6-N6	-5.84	119.03	123.70
28	AS	10	DG	C5-C6-O6	-5.84	125.10	128.60
29	AT	43	DA	O4'-C4'-C3'	-5.84	102.17	104.50
41	Ah	19	DC	N3-C4-N4	5.84	122.09	118.00
46	Am	30	DC	O4'-C4'-C3'	-5.84	102.17	104.50
51	Av	20	DA	C4-C5-C6	5.84	119.92	117.00
78	BN	17	DA	P-O3'-C3'	5.84	126.71	119.70
104	Bn	18	DA	C4-C5-C6	5.84	119.92	117.00
122	CE	15	DC	N3-C4-N4	5.84	122.09	118.00
133	CP	37	DA	C5-C6-N6	-5.84	119.03	123.70
143	CZ	13	DA	C5-C6-N1	-5.84	114.78	117.70
153	Cq	30	DA	C5-C6-N6	-5.84	119.03	123.70
160	Cx	42	DA	P-O5'-C5'	-5.84	111.56	120.90
1	AA	640	DC	N3-C4-C5	-5.84	119.56	121.90
1	AA	956	DC	N3-C4-N4	5.84	122.08	118.00
1	AA	5107	DA	C5-C6-N6	-5.84	119.03	123.70
1	AA	5517	DA	C5-C6-N6	-5.84	119.03	123.70
1	AA	6021	DA	C4-C5-C6	5.84	119.92	117.00
1	AA	6648	DA	C4-C5-C6	5.84	119.92	117.00
1	AA	6805	DA	C4-C5-C6	5.84	119.92	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A1	9	DT	P-O5'-C5'	-5.84	111.56	120.90
4	A2	43	DA	C5-C6-N6	-5.84	119.03	123.70
5	A3	11	DC	N3-C4-N4	5.84	122.08	118.00
13	AD	39	DA	C4-C5-C6	5.84	119.92	117.00
18	AI	9	DC	N3-C4-N4	5.84	122.09	118.00
20	AK	44	DA	C4-C5-C6	5.84	119.92	117.00
71	BG	1	DA	C5-C6-N6	-5.84	119.03	123.70
82	BR	38	DA	C4-C5-C6	5.84	119.92	117.00
112	C2	1	DA	C4-C5-C6	5.84	119.92	117.00
113	C3	17	DA	C4-C5-C6	5.84	119.92	117.00
133	CP	37	DA	C4-C5-C6	5.84	119.92	117.00
143	CZ	28	DA	C4-C5-C6	5.84	119.92	117.00
147	Ce	46	DA	C4-C5-C6	5.84	119.92	117.00
149	Cg	43	DA	C5-C6-N6	-5.84	119.03	123.70
154	Cr	36	DA	C4-C5-C6	5.84	119.92	117.00
1	AA	364	DA	C4-C5-C6	5.83	119.92	117.00
1	AA	2375	DT	C1'-O4'-C4'	-5.83	104.27	110.10
1	AA	4580	DC	N3-C4-N4	5.83	122.08	118.00
1	AA	5961	DA	C4-C5-C6	5.83	119.92	117.00
1	AA	7211	DC	N3-C4-N4	5.83	122.08	118.00
4	A2	39	DA	O4'-C1'-N9	5.83	112.08	108.00
21	AL	44	DA	C4-C5-C6	5.83	119.92	117.00
24	AO	46	DT	O4'-C1'-N1	5.83	112.08	108.00
49	As	35	DA	C5-C6-N6	-5.83	119.03	123.70
101	Bk	36	DC	N3-C4-N4	5.83	122.08	118.00
157	Cu	44	DA	C5-C6-N6	-5.83	119.03	123.70
1	AA	63	DC	N3-C4-N4	5.83	122.08	118.00
1	AA	249	DA	C4-C5-C6	5.83	119.92	117.00
1	AA	1320	DA	C5-C6-N6	-5.83	119.03	123.70
1	AA	4235	DA	C5-C6-N6	-5.83	119.03	123.70
1	AA	4824	DA	C4-C5-C6	5.83	119.92	117.00
1	AA	4865	DG	C1'-O4'-C4'	-5.83	104.27	110.10
1	AA	4959	DT	O4'-C1'-N1	5.83	112.08	108.00
1	AA	5933	DA	C4-C5-C6	5.83	119.92	117.00
1	AA	7133	DT	C1'-O4'-C4'	-5.83	104.27	110.10
4	A2	29	DA	C4-C5-C6	5.83	119.92	117.00
7	A5	9	DA	C5-C6-N6	-5.83	119.03	123.70
9	A7	12	DA	C4-C5-C6	5.83	119.92	117.00
26	AQ	44	DA	C4-C5-C6	5.83	119.92	117.00
44	Ak	11	DA	C4-C5-C6	5.83	119.92	117.00
67	BC	24	DA	C4-C5-C6	5.83	119.92	117.00
98	Bh	48	DA	C4-C5-C6	5.83	119.92	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
112	C2	30	DA	C5-C6-N6	-5.83	119.03	123.70
115	C5	5	DA	C4-C5-C6	5.83	119.92	117.00
128	CK	12	DA	C5-C6-N6	-5.83	119.03	123.70
129	CL	46	DC	N3-C4-N4	5.83	122.08	118.00
156	Ct	42	DA	C4-C5-C6	5.83	119.92	117.00
161	Cy	19	DA	C5-C6-N6	-5.83	119.03	123.70
1	AA	6653	DA	C4-C5-C6	5.83	119.92	117.00
1	AA	7104	DT	O4'-C1'-N1	5.83	112.08	108.00
1	AA	7152	DA	C4-C5-C6	5.83	119.92	117.00
3	A1	13	DT	P-O3'-C3'	5.83	126.70	119.70
3	A1	40	DA	C4-C5-C6	5.83	119.92	117.00
4	A2	27	DA	C4-C5-C6	5.83	119.92	117.00
9	A7	47	DA	P-O3'-C3'	5.83	126.70	119.70
27	AR	51	DA	C4-C5-C6	5.83	119.92	117.00
54	Ay	38	DA	C4-C5-C6	5.83	119.92	117.00
57	B1	59	DA	C4-C5-C6	5.83	119.92	117.00
72	BH	3	DA	C4-C5-C6	5.83	119.92	117.00
95	Be	31	DA	C4-C5-C6	5.83	119.92	117.00
99	Bi	15	DC	N3-C4-N4	5.83	122.08	118.00
111	C1	41	DA	C5-C6-N6	-5.83	119.04	123.70
116	C6	10	DA	C4-C5-C6	5.83	119.92	117.00
117	C7	24	DA	C4-C5-C6	5.83	119.92	117.00
124	CG	3	DC	N3-C4-N4	5.83	122.08	118.00
125	CH	15	DA	C4-C5-C6	5.83	119.92	117.00
146	Cd	33	DA	C5-C6-N6	-5.83	119.03	123.70
159	Cw	19	DC	N3-C4-N4	5.83	122.08	118.00
1	AA	1958	DA	C4-C5-C6	5.83	119.92	117.00
1	AA	2176	DA	C4-C5-C6	5.83	119.92	117.00
1	AA	3580	DA	C4-C5-C6	5.83	119.92	117.00
1	AA	5328	DA	C4-C5-C6	5.83	119.92	117.00
10	A8	42	DA	C4-C5-C6	5.83	119.92	117.00
29	AT	32	DC	N3-C4-N4	5.83	122.08	118.00
32	AW	16	DA	C5-C6-N6	-5.83	119.04	123.70
89	BY	40	DA	C4-C5-C6	5.83	119.92	117.00
102	Bl	4	DT	O4'-C1'-N1	5.83	112.08	108.00
103	Bm	14	DC	N3-C4-N4	5.83	122.08	118.00
105	Bo	44	DA	C4-C5-C6	5.83	119.92	117.00
114	C4	25	DA	C4-C5-C6	5.83	119.92	117.00
144	Cb	44	DA	C4-C5-C6	5.83	119.92	117.00
161	Cy	49	DA	C4-C5-C6	5.83	119.92	117.00
1	AA	174	DA	C4-C5-C6	5.83	119.91	117.00
1	AA	451	DA	C4-C5-C6	5.83	119.91	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	951	DA	C5-C6-N6	-5.83	119.04	123.70
1	AA	1045	DA	C5-C6-N1	-5.83	114.78	117.70
1	AA	1627	DA	C5-C6-N6	-5.83	119.04	123.70
1	AA	2136	DA	C4-C5-C6	5.83	119.91	117.00
1	AA	2391	DC	N3-C4-C5	-5.83	119.57	121.90
1	AA	3240	DA	C4-C5-C6	5.83	119.91	117.00
1	AA	3307	DA	C4-C5-C6	5.83	119.91	117.00
1	AA	4045	DA	C5-C6-N6	-5.83	119.04	123.70
1	AA	5383	DA	C4-C5-C6	5.83	119.92	117.00
1	AA	5864	DA	C4-C5-C6	5.83	119.91	117.00
1	AA	5872	DA	C4-C5-C6	5.83	119.91	117.00
1	AA	6278	DA	C5-C6-N6	-5.83	119.04	123.70
1	AA	6356	DA	C4-C5-C6	5.83	119.91	117.00
1	AA	6664	DA	C5-C6-N6	-5.83	119.04	123.70
1	AA	6819	DA	C4-C5-C6	5.83	119.91	117.00
9	A7	25	DC	N3-C4-N4	5.83	122.08	118.00
13	AD	42	DA	C5-C6-N6	-5.83	119.04	123.70
18	AI	15	DA	C5-C6-N6	-5.83	119.04	123.70
48	Ao	36	DA	C4-C5-C6	5.83	119.92	117.00
53	Ax	16	DA	C4-C5-C6	5.83	119.91	117.00
57	B1	37	DA	C4-C5-C6	5.83	119.92	117.00
60	B4	36	DA	C4-C5-C6	5.83	119.92	117.00
62	B6	24	DA	C4-C5-C6	5.83	119.91	117.00
63	B7	28	DA	C4-C5-C6	5.83	119.91	117.00
69	BE	40	DA	C4-C5-C6	5.83	119.91	117.00
87	BW	22	DA	C4-C5-C6	5.83	119.91	117.00
97	Bg	12	DA	C4-C5-C6	5.83	119.91	117.00
110	C0	13	DC	N3-C4-N4	5.83	122.08	118.00
114	C4	18	DA	C5-C6-N1	-5.83	114.79	117.70
117	C7	34	DA	C4-C5-C6	5.83	119.91	117.00
126	CI	42	DA	C4-C5-C6	5.83	119.92	117.00
127	CJ	23	DA	C5-C6-N6	-5.83	119.04	123.70
133	CP	12	DA	C4-C5-C6	5.83	119.92	117.00
138	CU	23	DA	C4-C5-C6	5.83	119.91	117.00
142	CY	31	DA	C5-C6-N6	-5.83	119.04	123.70
146	Cd	36	DA	C4-C5-C6	5.83	119.92	117.00
155	Cs	29	DA	C4-C5-C6	5.83	119.91	117.00
156	Ct	11	DT	C1'-O4'-C4'	-5.83	104.27	110.10
1	AA	2100	DA	C4-C5-C6	5.83	119.91	117.00
1	AA	2297	DC	N3-C4-N4	5.83	122.08	118.00
1	AA	5330	DA	C4-C5-C6	5.83	119.91	117.00
1	AA	6535	DA	C5-C6-N6	-5.83	119.04	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	7151	DA	C4-C5-C6	5.83	119.91	117.00
4	A2	17	DC	O4'-C1'-N1	5.83	112.08	108.00
10	A8	3	DA	C5-C6-N6	-5.83	119.04	123.70
27	AR	14	DA	C5-C6-N6	-5.83	119.04	123.70
27	AR	48	DA	C4-C5-C6	5.83	119.91	117.00
62	B6	9	DA	C4-C5-C6	5.83	119.91	117.00
68	BD	30	DA	C4-C5-C6	5.83	119.91	117.00
69	BE	44	DA	C5-C6-N6	-5.83	119.04	123.70
119	CB	14	DC	N3-C4-C5	-5.83	119.57	121.90
127	CJ	57	DA	C1'-O4'-C4'	-5.83	104.27	110.10
140	CW	16	DA	C4-C5-C6	5.83	119.91	117.00
1	AA	663	DC	N3-C4-N4	5.83	122.08	118.00
1	AA	930	DA	C4-C5-C6	5.83	119.91	117.00
1	AA	2163	DT	O4'-C1'-C2'	-5.83	101.24	105.90
1	AA	2196	DA	C5-C6-N6	-5.83	119.04	123.70
1	AA	2562	DA	C4-C5-C6	5.83	119.91	117.00
1	AA	5097	DA	C5-C6-N1	-5.83	114.79	117.70
2	A0	8	DA	C4-C5-C6	5.83	119.91	117.00
17	AH	31	DA	C5-C6-N6	-5.83	119.04	123.70
26	AQ	34	DA	C4-C5-C6	5.83	119.91	117.00
26	AQ	54	DA	C4-C5-C6	5.83	119.91	117.00
27	AR	28	DA	C5-C6-N6	-5.83	119.04	123.70
51	Av	4	DG	O4'-C1'-N9	5.83	112.08	108.00
70	BF	15	DA	C4-C5-C6	5.83	119.91	117.00
72	BH	26	DA	C4-C5-C6	5.83	119.91	117.00
75	BK	42	DA	P-O3'-C3'	5.83	126.69	119.70
78	BN	50	DA	C4-C5-C6	5.83	119.91	117.00
79	BO	12	DA	C4-C5-C6	5.83	119.91	117.00
94	Bd	50	DA	C5-C6-N6	-5.83	119.04	123.70
105	Bo	62	DC	N3-C4-C5	-5.83	119.57	121.90
106	Bp	9	DC	N3-C4-N4	5.83	122.08	118.00
109	Bs	2	DG	O4'-C4'-C3'	-5.83	102.17	104.50
122	CE	33	DA	C4-C5-C6	5.83	119.91	117.00
127	CJ	22	DA	C4-C5-C6	5.83	119.91	117.00
137	CT	45	DA	C5-C6-N6	-5.83	119.04	123.70
144	Cb	10	DG	O4'-C4'-C3'	-5.83	102.17	104.50
145	Cc	22	DA	C4-C5-C6	5.83	119.91	117.00
153	Cq	1	DA	C4-C5-C6	5.83	119.91	117.00
1	AA	315	DA	C5-C6-N6	-5.82	119.04	123.70
1	AA	752	DA	C4-C5-C6	5.82	119.91	117.00
1	AA	1352	DA	C5-C6-N1	-5.82	114.79	117.70
1	AA	3344	DA	C5-C6-N1	-5.82	114.79	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3676	DA	C5-C6-N6	-5.82	119.04	123.70
1	AA	4608	DA	C5-C6-N6	-5.82	119.04	123.70
1	AA	4748	DA	C4-C5-C6	5.82	119.91	117.00
1	AA	5318	DA	C4-C5-C6	5.82	119.91	117.00
1	AA	5915	DC	N3-C4-C5	-5.82	119.57	121.90
1	AA	5993	DA	C4-C5-C6	5.82	119.91	117.00
1	AA	6588	DC	N3-C4-N4	5.82	122.08	118.00
6	A4	44	DA	C4-C5-C6	5.82	119.91	117.00
10	A8	38	DA	C5-C6-N6	-5.82	119.04	123.70
15	AF	10	DC	N3-C4-N4	5.82	122.08	118.00
18	AI	45	DA	C5-C6-N6	-5.82	119.04	123.70
30	AU	32	DA	C4-C5-C6	5.82	119.91	117.00
39	Af	26	DA	C5-C6-N6	-5.82	119.04	123.70
40	Ag	22	DC	N3-C4-N4	5.82	122.08	118.00
48	Ao	7	DC	N3-C4-N4	5.82	122.08	118.00
50	Au	8	DA	C5-C6-N6	-5.82	119.04	123.70
54	Ay	14	DA	C4-C5-C6	5.82	119.91	117.00
61	B5	26	DA	C4-C5-C6	5.82	119.91	117.00
79	BO	12	DA	C5-C6-N6	-5.82	119.04	123.70
80	BP	12	DA	C5-C6-N6	-5.82	119.04	123.70
81	BQ	46	DA	C4-C5-C6	5.82	119.91	117.00
89	BY	43	DC	N3-C4-N4	5.82	122.08	118.00
92	Bb	40	DA	P-O3'-C3'	5.82	126.69	119.70
92	Bb	65	DA	C4-C5-C6	5.82	119.91	117.00
92	Bb	65	DA	C5-C6-N6	-5.82	119.04	123.70
98	Bh	17	DA	C4-C5-C6	5.82	119.91	117.00
103	Bm	43	DA	C5-C6-N6	-5.82	119.04	123.70
106	Bp	17	DA	C4-C5-C6	5.82	119.91	117.00
113	C3	44	DC	N3-C4-N4	5.82	122.08	118.00
117	C7	31	DA	C4-C5-C6	5.82	119.91	117.00
134	CQ	27	DT	P-O3'-C3'	5.82	126.69	119.70
145	Cc	47	DA	C4-C5-C6	5.82	119.91	117.00
157	Cu	45	DA	C4-C5-C6	5.82	119.91	117.00
162	Cz	46	DA	C5-C6-N6	-5.82	119.04	123.70
1	AA	593	DC	N3-C4-N4	5.82	122.08	118.00
1	AA	934	DC	N3-C4-N4	5.82	122.08	118.00
1	AA	2914	DC	N3-C4-N4	5.82	122.08	118.00
1	AA	5648	DA	C5-C6-N6	-5.82	119.04	123.70
1	AA	6418	DG	C3'-C2'-C1'	-5.82	95.51	102.50
10	A8	43	DA	C4-C5-C6	5.82	119.91	117.00
13	AD	3	DA	C4-C5-C6	5.82	119.91	117.00
13	AD	37	DA	C4-C5-C6	5.82	119.91	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
31	AV	48	DA	C5-C6-N6	-5.82	119.04	123.70
34	AY	3	DG	P-O3'-C3'	5.82	126.69	119.70
43	Aj	33	DA	C4-C5-C6	5.82	119.91	117.00
46	Am	23	DC	O4'-C1'-N1	5.82	112.08	108.00
64	B8	14	DC	N3-C4-N4	5.82	122.08	118.00
64	B8	25	DA	C5-C6-N6	-5.82	119.04	123.70
139	CV	3	DA	C4-C5-C6	5.82	119.91	117.00
150	Ch	25	DC	O4'-C1'-N1	5.82	112.08	108.00
1	AA	593	DC	N3-C4-C5	-5.82	119.57	121.90
1	AA	931	DA	C5-C6-N6	-5.82	119.04	123.70
1	AA	1053	DA	C4-C5-C6	5.82	119.91	117.00
1	AA	1418	DA	C5-C6-N6	-5.82	119.04	123.70
1	AA	2373	DA	C5-C6-N6	-5.82	119.04	123.70
1	AA	2427	DA	P-O3'-C3'	5.82	126.69	119.70
1	AA	2717	DA	C4-C5-C6	5.82	119.91	117.00
1	AA	4011	DG	O4'-C1'-C2'	-5.82	101.24	105.90
1	AA	4686	DC	N3-C4-N4	5.82	122.08	118.00
1	AA	5430	DA	C4-C5-C6	5.82	119.91	117.00
1	AA	6752	DA	C4-C5-C6	5.82	119.91	117.00
1	AA	7144	DA	C4-C5-C6	5.82	119.91	117.00
23	AN	7	DA	C4-C5-C6	5.82	119.91	117.00
32	AW	26	DA	C4-C5-C6	5.82	119.91	117.00
34	AY	13	DA	C5-C6-N6	-5.82	119.04	123.70
44	Ak	42	DA	C5-C6-N1	-5.82	114.79	117.70
129	CL	13	DC	N3-C4-N4	5.82	122.07	118.00
146	Cd	41	DA	C4-C5-C6	5.82	119.91	117.00
162	Cz	11	DA	C4-C5-C6	5.82	119.91	117.00
1	AA	2197	DT	O4'-C1'-N1	5.82	112.07	108.00
1	AA	3359	DC	N3-C4-N4	5.82	122.07	118.00
1	AA	5865	DA	C5-C6-N6	-5.82	119.05	123.70
1	AA	6819	DA	C5-C6-N6	-5.82	119.05	123.70
110	C0	31	DA	C4-C5-C6	5.82	119.91	117.00
121	CD	41	DA	C4-C5-C6	5.82	119.91	117.00
132	CO	16	DA	C4-C5-C6	5.82	119.91	117.00
136	CS	34	DA	C4-C5-C6	5.82	119.91	117.00
1	AA	1170	DA	C4-C5-C6	5.82	119.91	117.00
1	AA	1718	DA	C5-C6-N1	-5.82	114.79	117.70
1	AA	1813	DC	N3-C4-N4	5.82	122.07	118.00
1	AA	2131	DC	N3-C4-N4	5.82	122.07	118.00
1	AA	2367	DG	O4'-C4'-C3'	-5.82	102.17	104.50
1	AA	2385	DC	N3-C4-N4	5.82	122.07	118.00
1	AA	2897	DG	O4'-C1'-N9	5.82	112.07	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3175	DA	C5-C6-N6	-5.82	119.05	123.70
1	AA	4475	DA	C5-C6-N6	-5.82	119.05	123.70
1	AA	4601	DC	N3-C4-N4	5.82	122.07	118.00
1	AA	5587	DA	C5-C6-N6	-5.82	119.05	123.70
1	AA	5732	DA	C4-C5-C6	5.82	119.91	117.00
1	AA	5802	DA	C4-C5-C6	5.82	119.91	117.00
1	AA	6820	DA	C5-C6-N6	-5.82	119.05	123.70
1	AA	6865	DA	C5-C6-N6	-5.82	119.05	123.70
1	AA	6925	DA	C5-C6-N6	-5.82	119.05	123.70
11	AB	9	DA	C4-C5-C6	5.82	119.91	117.00
14	AE	33	DA	C5-C6-N6	-5.82	119.05	123.70
18	AI	48	DC	N3-C4-N4	5.82	122.07	118.00
21	AL	40	DA	C5-C6-N6	-5.82	119.05	123.70
25	AP	38	DA	C4-C5-C6	5.82	119.91	117.00
30	AU	27	DC	N3-C4-C5	-5.82	119.57	121.90
36	Ab	9	DA	C4-C5-C6	5.82	119.91	117.00
39	Af	20	DA	C5-C6-N6	-5.82	119.05	123.70
41	Ah	24	DC	N3-C4-N4	5.82	122.07	118.00
59	B3	40	DA	C4-C5-C6	5.82	119.91	117.00
64	B8	32	DA	C4-C5-C6	5.82	119.91	117.00
91	Ba	19	DA	C4-C5-C6	5.82	119.91	117.00
112	C2	36	DA	C4-C5-C6	5.82	119.91	117.00
113	C3	16	DA	C4-C5-C6	5.82	119.91	117.00
140	CW	34	DA	O4'-C1'-N9	5.82	112.07	108.00
147	Ce	19	DA	C5-C6-N6	-5.82	119.05	123.70
149	Cg	41	DT	P-O3'-C3'	5.82	126.68	119.70
1	AA	222	DA	C4-C5-C6	5.82	119.91	117.00
1	AA	418	DA	C4-C5-C6	5.82	119.91	117.00
1	AA	424	DC	P-O3'-C3'	5.82	126.68	119.70
1	AA	612	DA	C4-C5-C6	5.82	119.91	117.00
1	AA	2554	DC	C1'-O4'-C4'	-5.82	104.28	110.10
1	AA	3386	DC	N3-C4-N4	5.82	122.07	118.00
1	AA	4514	DG	P-O3'-C3'	5.82	126.68	119.70
1	AA	4678	DA	C4-C5-C6	5.82	119.91	117.00
1	AA	5329	DA	C4-C5-C6	5.82	119.91	117.00
1	AA	5610	DA	C4-C5-C6	5.82	119.91	117.00
1	AA	6458	DC	N3-C4-N4	5.82	122.07	118.00
25	AP	15	DA	C4-C5-C6	5.82	119.91	117.00
45	Al	44	DA	C5-C6-N6	-5.82	119.05	123.70
50	Au	28	DA	C5-C6-N6	-5.82	119.05	123.70
52	Aw	21	DA	C5-C6-N6	-5.82	119.05	123.70
73	BI	9	DA	C5-C6-N6	-5.82	119.05	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
81	BQ	19	DA	C5-C6-N6	-5.82	119.05	123.70
92	Bb	24	DA	C4-C5-C6	5.82	119.91	117.00
94	Bd	14	DA	C4-C5-C6	5.82	119.91	117.00
105	Bo	58	DC	N3-C4-N4	5.82	122.07	118.00
106	Bp	45	DA	C5-C6-N6	-5.82	119.05	123.70
111	C1	37	DA	C4-C5-C6	5.82	119.91	117.00
131	CN	7	DA	C5-C6-N6	-5.82	119.05	123.70
131	CN	13	DA	C4-C5-C6	5.82	119.91	117.00
133	CP	42	DA	C5-C6-N6	-5.82	119.05	123.70
135	CR	26	DT	C1'-O4'-C4'	-5.82	104.28	110.10
139	CV	4	DA	C4-C5-C6	5.82	119.91	117.00
139	CV	25	DA	C4-C5-C6	5.82	119.91	117.00
160	Cx	10	DA	C5-C6-N6	-5.82	119.05	123.70
162	Cz	28	DA	C4-C5-C6	5.82	119.91	117.00
162	Cz	44	DC	N3-C4-N4	5.82	122.07	118.00
162	Cz	48	DA	C4-C5-C6	5.82	119.91	117.00
1	AA	338	DC	N3-C4-N4	5.81	122.07	118.00
1	AA	2515	DA	C5-C6-N6	-5.81	119.05	123.70
1	AA	5387	DA	C4-C5-C6	5.81	119.91	117.00
6	A4	6	DA	C4-C5-C6	5.81	119.91	117.00
14	AE	36	DC	N3-C4-N4	5.81	122.07	118.00
17	AH	12	DA	C4-C5-C6	5.81	119.91	117.00
32	AW	43	DA	C4-C5-C6	5.81	119.91	117.00
77	BM	5	DA	C5-C6-N6	-5.81	119.05	123.70
95	Be	27	DA	C5-C6-N6	-5.81	119.05	123.70
112	C2	31	DA	C4-C5-C6	5.81	119.91	117.00
119	CB	41	DC	N3-C4-C5	-5.81	119.57	121.90
124	CG	38	DA	C4-C5-C6	5.81	119.91	117.00
128	CK	17	DA	C4-C5-C6	5.81	119.91	117.00
132	CO	11	DA	C4-C5-C6	5.81	119.91	117.00
157	Cu	52	DA	C4-C5-C6	5.81	119.91	117.00
1	AA	653	DA	C5-C6-N6	-5.81	119.05	123.70
1	AA	1386	DA	C5-C6-N6	-5.81	119.05	123.70
1	AA	2939	DA	C4-C5-C6	5.81	119.91	117.00
1	AA	3148	DC	N3-C4-C5	-5.81	119.58	121.90
1	AA	3220	DA	C5-C6-N1	-5.81	114.79	117.70
1	AA	3414	DC	N3-C4-N4	5.81	122.07	118.00
1	AA	3529	DC	O4'-C1'-C2'	-5.81	101.25	105.90
1	AA	4363	DC	N3-C4-C5	-5.81	119.58	121.90
1	AA	4897	DC	N3-C4-C5	-5.81	119.58	121.90
1	AA	5214	DA	C5-C6-N6	-5.81	119.05	123.70
1	AA	5505	DA	C4-C5-C6	5.81	119.91	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5771	DT	O4'-C4'-C3'	-5.81	102.17	104.50
1	AA	5985	DA	C5-C6-N6	-5.81	119.05	123.70
1	AA	6842	DA	C4-C5-C6	5.81	119.91	117.00
1	AA	6887	DA	C5-C6-N6	-5.81	119.05	123.70
1	AA	6927	DC	C1'-O4'-C4'	-5.81	104.29	110.10
1	AA	6967	DA	C4-C5-C6	5.81	119.91	117.00
3	A1	22	DC	N3-C4-C5	-5.81	119.58	121.90
5	A3	3	DA	C4-C5-C6	5.81	119.91	117.00
17	AH	2	DC	O4'-C1'-N1	5.81	112.07	108.00
17	AH	48	DA	C4-C5-C6	5.81	119.91	117.00
49	As	4	DT	P-O5'-C5'	-5.81	111.60	120.90
55	Az	5	DA	C4-C5-C6	5.81	119.91	117.00
55	Az	32	DA	C4-C5-C6	5.81	119.91	117.00
66	BB	19	DA	C4-C5-C6	5.81	119.91	117.00
66	BB	22	DA	C4-C5-C6	5.81	119.91	117.00
68	BD	19	DA	C4-C5-C6	5.81	119.91	117.00
88	BX	46	DA	C5-C6-N6	-5.81	119.05	123.70
111	C1	26	DC	N3-C4-N4	5.81	122.07	118.00
128	CK	11	DA	C4-C5-C6	5.81	119.91	117.00
131	CN	35	DA	C4-C5-C6	5.81	119.91	117.00
155	Cs	17	DA	C5-C6-N6	-5.81	119.05	123.70
162	Cz	10	DA	C4-C5-C6	5.81	119.91	117.00
1	AA	991	DA	C4-C5-C6	5.81	119.91	117.00
1	AA	2386	DA	C4-C5-C6	5.81	119.91	117.00
1	AA	3114	DA	C5-C6-N6	-5.81	119.05	123.70
1	AA	5218	DC	N3-C4-N4	5.81	122.07	118.00
1	AA	5733	DA	C4-C5-C6	5.81	119.91	117.00
1	AA	6481	DA	C5-C6-N6	-5.81	119.05	123.70
1	AA	6577	DA	C4-C5-C6	5.81	119.91	117.00
1	AA	6760	DA	C5-C6-N6	-5.81	119.05	123.70
1	AA	6911	DC	O4'-C1'-N1	5.81	112.07	108.00
9	A7	22	DA	C5-C6-N6	-5.81	119.05	123.70
17	AH	24	DA	C4-C5-C6	5.81	119.91	117.00
37	Ac	5	DA	C4-C5-C6	5.81	119.91	117.00
37	Ac	30	DC	N3-C4-N4	5.81	122.07	118.00
44	Ak	42	DA	C4-C5-C6	5.81	119.91	117.00
68	BD	6	DA	C4-C5-C6	5.81	119.91	117.00
77	BM	24	DA	C5-C6-N6	-5.81	119.05	123.70
114	C4	57	DA	C5-C6-N6	-5.81	119.05	123.70
115	C5	49	DA	C5-C6-N1	-5.81	114.79	117.70
139	CV	24	DA	C4-C5-C6	5.81	119.91	117.00
153	Cq	38	DC	N3-C4-N4	5.81	122.07	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	497	DA	C4-C5-C6	5.81	119.91	117.00
1	AA	599	DG	P-O3'-C3'	5.81	126.67	119.70
1	AA	1262	DA	C4-C5-C6	5.81	119.90	117.00
1	AA	2047	DA	C5-C6-N6	-5.81	119.05	123.70
1	AA	2059	DC	P-O3'-C3'	5.81	126.67	119.70
1	AA	3399	DG	C5-C6-O6	-5.81	125.11	128.60
1	AA	3704	DA	C4-C5-C6	5.81	119.91	117.00
1	AA	5689	DC	N3-C4-N4	5.81	122.07	118.00
1	AA	6993	DA	C5-C6-N6	-5.81	119.05	123.70
5	A3	26	DC	N3-C4-N4	5.81	122.07	118.00
10	A8	38	DA	C4-C5-C6	5.81	119.91	117.00
13	AD	4	DA	C4-C5-C6	5.81	119.90	117.00
42	Ai	36	DA	C4-C5-C6	5.81	119.91	117.00
49	As	29	DA	C5-C6-N6	-5.81	119.05	123.70
83	BS	27	DA	C5-C6-N1	-5.81	114.80	117.70
91	Ba	2	DA	C4-C5-C6	5.81	119.91	117.00
105	Bo	28	DA	C4-C5-C6	5.81	119.91	117.00
131	CN	30	DA	C5-C6-N6	-5.81	119.05	123.70
143	CZ	9	DA	C5-C6-N6	-5.81	119.05	123.70
160	Cx	10	DA	C4-C5-C6	5.81	119.91	117.00
1	AA	73	DA	C4-C5-C6	5.81	119.90	117.00
1	AA	1200	DA	C4-C5-C6	5.81	119.90	117.00
1	AA	1264	DA	C5-C6-N6	-5.81	119.06	123.70
1	AA	2131	DC	N3-C4-C5	-5.81	119.58	121.90
1	AA	4727	DA	C4-C5-C6	5.81	119.90	117.00
1	AA	4750	DA	C4-C5-C6	5.81	119.90	117.00
1	AA	5545	DA	C4-C5-C6	5.81	119.90	117.00
1	AA	5687	DC	N3-C4-N4	5.81	122.06	118.00
3	A1	25	DA	P-O3'-C3'	5.81	126.67	119.70
10	A8	23	DA	C4-C5-C6	5.81	119.90	117.00
13	AD	23	DA	C4-C5-C6	5.81	119.90	117.00
15	AF	32	DA	C4-C5-C6	5.81	119.90	117.00
33	AX	35	DA	C5-C6-N6	-5.81	119.05	123.70
34	AY	9	DA	C4-C5-C6	5.81	119.90	117.00
36	Ab	15	DG	P-O3'-C3'	5.81	126.67	119.70
56	B0	38	DA	C4-C5-C6	5.81	119.90	117.00
76	BL	42	DA	C5-C6-N6	-5.81	119.05	123.70
78	BN	26	DA	C4-C5-C6	5.81	119.90	117.00
104	Bn	14	DT	O4'-C1'-N1	5.81	112.06	108.00
117	C7	4	DA	C4-C5-C6	5.81	119.90	117.00
125	CH	20	DA	C5-C6-N6	-5.81	119.05	123.70
142	CY	34	DA	C4-C5-C6	5.81	119.90	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
144	Cb	11	DA	O4'-C4'-C3'	-5.81	102.18	104.50
145	Cc	59	DA	C4-C5-C6	5.81	119.90	117.00
152	Cp	43	DA	C4-C5-C6	5.81	119.90	117.00
157	Cu	15	DA	C5-C6-N6	-5.81	119.05	123.70
159	Cw	49	DA	C4-C5-C6	5.81	119.90	117.00
160	Cx	44	DA	C4-C5-C6	5.81	119.90	117.00
1	AA	1534	DA	C5-C6-N6	-5.81	119.06	123.70
1	AA	4113	DA	C4-C5-C6	5.81	119.90	117.00
1	AA	5489	DA	C4-C5-C6	5.81	119.90	117.00
1	AA	6488	DA	C4-C5-C6	5.81	119.90	117.00
1	AA	6599	DA	C4-C5-C6	5.81	119.90	117.00
10	A8	35	DA	C4-C5-C6	5.81	119.90	117.00
33	AX	16	DA	C4-C5-C6	5.81	119.90	117.00
84	BT	41	DC	O4'-C1'-C2'	-5.81	101.25	105.90
113	C3	9	DA	C4-C5-C6	5.81	119.90	117.00
121	CD	13	DA	C4-C5-C6	5.81	119.90	117.00
137	CT	17	DA	C5-C6-N6	-5.81	119.06	123.70
144	Cb	16	DA	C4-C5-C6	5.81	119.90	117.00
155	Cs	28	DC	N3-C4-N4	5.81	122.06	118.00
1	AA	82	DA	C5-C6-N6	-5.80	119.06	123.70
1	AA	251	DA	C4-C5-C6	5.80	119.90	117.00
1	AA	1006	DC	O4'-C1'-N1	5.80	112.06	108.00
1	AA	1039	DA	C4-C5-C6	5.80	119.90	117.00
1	AA	1432	DA	C5-C6-N6	-5.80	119.06	123.70
1	AA	1657	DA	C4-C5-C6	5.80	119.90	117.00
1	AA	1687	DC	N3-C4-N4	5.80	122.06	118.00
1	AA	1739	DA	C4-C5-C6	5.80	119.90	117.00
1	AA	2009	DC	N3-C4-N4	5.80	122.06	118.00
1	AA	3330	DC	N3-C4-N4	5.80	122.06	118.00
1	AA	5231	DA	C4-C5-C6	5.80	119.90	117.00
1	AA	5406	DA	C4-C5-C6	5.80	119.90	117.00
1	AA	6029	DA	C4-C5-C6	5.80	119.90	117.00
1	AA	6271	DA	C4-C5-C6	5.80	119.90	117.00
15	AF	19	DA	C4-C5-C6	5.80	119.90	117.00
31	AV	16	DA	C5-C6-N6	-5.80	119.06	123.70
38	Ad	20	DA	C4-C5-C6	5.80	119.90	117.00
39	Af	44	DA	C5-C6-N6	-5.80	119.06	123.70
53	Ax	31	DA	C4-C5-C6	5.80	119.90	117.00
57	B1	45	DA	C5-C6-N6	-5.80	119.06	123.70
62	B6	42	DA	C5-C6-N6	-5.80	119.06	123.70
73	BI	19	DC	N3-C4-C5	-5.80	119.58	121.90
82	BR	43	DA	C4-C5-C6	5.80	119.90	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	BU	50	DA	C4-C5-C6	5.80	119.90	117.00
120	CC	40	DA	C5-C6-N6	-5.80	119.06	123.70
142	CY	43	DA	C5-C6-N6	-5.80	119.06	123.70
1	AA	46	DA	C5-C6-N6	-5.80	119.06	123.70
1	AA	519	DA	C5-C6-N6	-5.80	119.06	123.70
1	AA	739	DA	C4-C5-C6	5.80	119.90	117.00
1	AA	1400	DC	N3-C4-N4	5.80	122.06	118.00
1	AA	1531	DA	C4-C5-C6	5.80	119.90	117.00
1	AA	1571	DA	C4-C5-C6	5.80	119.90	117.00
1	AA	1982	DA	C4-C5-C6	5.80	119.90	117.00
1	AA	3097	DA	C4-C5-C6	5.80	119.90	117.00
1	AA	6380	DC	N3-C4-N4	5.80	122.06	118.00
1	AA	6395	DC	N3-C4-N4	5.80	122.06	118.00
8	A6	12	DA	C4-C5-C6	5.80	119.90	117.00
11	AB	26	DA	C4-C5-C6	5.80	119.90	117.00
11	AB	37	DA	C4-C5-C6	5.80	119.90	117.00
55	Az	15	DA	C4-C5-C6	5.80	119.90	117.00
69	BE	64	DC	P-O5'-C5'	-5.80	111.61	120.90
71	BG	30	DA	C4-C5-C6	5.80	119.90	117.00
100	Bj	34	DA	C1'-O4'-C4'	-5.80	104.30	110.10
104	Bn	14	DT	P-O5'-C5'	-5.80	111.61	120.90
114	C4	9	DA	C4-C5-C6	5.80	119.90	117.00
157	Cu	50	DG	P-O3'-C3'	5.80	126.66	119.70
1	AA	369	DA	C5-C6-N6	-5.80	119.06	123.70
1	AA	507	DC	O4'-C1'-C2'	-5.80	101.26	105.90
1	AA	591	DA	C4-C5-C6	5.80	119.90	117.00
1	AA	1615	DA	C4-C5-C6	5.80	119.90	117.00
1	AA	2098	DA	C4-C5-C6	5.80	119.90	117.00
1	AA	2397	DA	C4-C5-C6	5.80	119.90	117.00
1	AA	2820	DA	C4-C5-C6	5.80	119.90	117.00
1	AA	3297	DA	C4-C5-C6	5.80	119.90	117.00
1	AA	3576	DA	C5-C6-N6	-5.80	119.06	123.70
1	AA	3600	DA	C4-C5-C6	5.80	119.90	117.00
1	AA	4356	DA	C5-C6-N1	-5.80	114.80	117.70
1	AA	4880	DA	C5-C6-N6	-5.80	119.06	123.70
1	AA	5850	DA	C4-C5-C6	5.80	119.90	117.00
1	AA	5891	DA	C4-C5-C6	5.80	119.90	117.00
1	AA	6475	DA	C4-C5-C6	5.80	119.90	117.00
20	AK	53	DA	C5-C6-N6	-5.80	119.06	123.70
29	AT	7	DA	C4-C5-C6	5.80	119.90	117.00
29	AT	21	DC	O4'-C1'-N1	5.80	112.06	108.00
30	AU	24	DA	C5-C6-N1	-5.80	114.80	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
37	Ac	38	DA	C5-C6-N6	-5.80	119.06	123.70
43	Aj	3	DA	C4-C5-C6	5.80	119.90	117.00
46	Am	40	DA	C4-C5-C6	5.80	119.90	117.00
48	Ao	24	DC	N3-C4-N4	5.80	122.06	118.00
55	Az	35	DA	C5-C6-N6	-5.80	119.06	123.70
96	Bf	37	DC	N3-C4-N4	5.80	122.06	118.00
117	C7	44	DA	C4-C5-C6	5.80	119.90	117.00
127	CJ	32	DC	N3-C4-N4	5.80	122.06	118.00
133	CP	16	DA	C5-C6-N1	-5.80	114.80	117.70
135	CR	32	DA	C4-C5-C6	5.80	119.90	117.00
140	CW	28	DC	N3-C4-N4	5.80	122.06	118.00
153	Cq	14	DA	C4-C5-C6	5.80	119.90	117.00
1	AA	1858	DA	C4-C5-C6	5.80	119.90	117.00
1	AA	1944	DA	C5-C6-N6	-5.80	119.06	123.70
1	AA	2025	DC	N3-C4-N4	5.80	122.06	118.00
1	AA	3011	DA	C5-C6-N1	-5.80	114.80	117.70
1	AA	3020	DA	C5-C6-N6	-5.80	119.06	123.70
1	AA	3096	DA	C5-C6-N6	-5.80	119.06	123.70
1	AA	3850	DA	C5-C6-N6	-5.80	119.06	123.70
1	AA	4671	DA	C4-C5-C6	5.80	119.90	117.00
1	AA	4752	DA	C4-C5-C6	5.80	119.90	117.00
1	AA	5122	DC	N3-C4-N4	5.80	122.06	118.00
1	AA	5671	DA	C4-C5-C6	5.80	119.90	117.00
1	AA	6448	DT	O4'-C1'-N1	5.80	112.06	108.00
7	A5	15	DA	C4-C5-C6	5.80	119.90	117.00
8	A6	41	DA	C4-C5-C6	5.80	119.90	117.00
8	A6	47	DA	C4-C5-C6	5.80	119.90	117.00
10	A8	28	DC	N3-C4-N4	5.80	122.06	118.00
14	AE	6	DA	C5-C6-N6	-5.80	119.06	123.70
39	Af	26	DA	C4-C5-C6	5.80	119.90	117.00
40	Ag	8	DA	C4-C5-C6	5.80	119.90	117.00
46	Am	26	DC	N3-C4-N4	5.80	122.06	118.00
47	An	25	DA	C4-C5-C6	5.80	119.90	117.00
74	BJ	13	DA	C4-C5-C6	5.80	119.90	117.00
76	BL	1	DA	C5-C6-N6	-5.80	119.06	123.70
77	BM	35	DA	O4'-C1'-C2'	-5.80	101.26	105.90
95	Be	33	DA	C4-C5-C6	5.80	119.90	117.00
102	Bl	22	DA	C5-C6-N6	-5.80	119.06	123.70
103	Bm	47	DA	C5-C6-N6	-5.80	119.06	123.70
129	CL	29	DA	C4-C5-C6	5.80	119.90	117.00
152	Cp	28	DC	N3-C4-N4	5.80	122.06	118.00
158	Cv	2	DA	C5-C6-N6	-5.80	119.06	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	931	DA	C4-C5-C6	5.80	119.90	117.00
1	AA	1314	DA	C5-C6-N6	-5.80	119.06	123.70
1	AA	1560	DC	N3-C4-N4	5.80	122.06	118.00
1	AA	2668	DC	N3-C4-N4	5.80	122.06	118.00
1	AA	4243	DA	C4-C5-C6	5.80	119.90	117.00
1	AA	6513	DA	C1'-O4'-C4'	-5.80	104.30	110.10
1	AA	7132	DC	N3-C4-C5	-5.80	119.58	121.90
12	AC	4	DC	O4'-C1'-C2'	-5.80	101.26	105.90
18	AI	5	DA	C4-C5-C6	5.80	119.90	117.00
18	AI	29	DA	C4-C5-C6	5.80	119.90	117.00
30	AU	47	DA	O4'-C1'-N9	5.80	112.06	108.00
32	AW	18	DC	N3-C4-N4	5.80	122.06	118.00
41	Ah	9	DC	N3-C4-N4	5.80	122.06	118.00
44	Ak	4	DC	O4'-C1'-N1	5.80	112.06	108.00
59	B3	13	DA	C4-C5-C6	5.80	119.90	117.00
77	BM	37	DA	C4-C5-C6	5.80	119.90	117.00
106	Bp	23	DA	C4-C5-C6	5.80	119.90	117.00
119	CB	31	DA	C4-C5-C6	5.80	119.90	117.00
132	CO	37	DA	C5-C6-N6	-5.80	119.06	123.70
152	Cp	42	DA	C5-C6-N6	-5.80	119.06	123.70
1	AA	146	DA	C5-C6-N1	-5.80	114.80	117.70
1	AA	355	DA	C5-C6-N6	-5.80	119.06	123.70
1	AA	897	DC	N3-C4-N4	5.80	122.06	118.00
1	AA	3041	DA	C5-C6-N6	-5.80	119.06	123.70
1	AA	3219	DA	C4-C5-C6	5.80	119.90	117.00
1	AA	3447	DA	C4-C5-C6	5.80	119.90	117.00
1	AA	3592	DC	N3-C4-C5	-5.80	119.58	121.90
1	AA	5723	DA	C5-C6-N6	-5.80	119.06	123.70
1	AA	5827	DC	N3-C4-N4	5.80	122.06	118.00
1	AA	5846	DA	C5-C6-N1	-5.80	114.80	117.70
1	AA	5937	DA	C1'-O4'-C4'	-5.80	104.30	110.10
1	AA	6256	DA	C4-C5-C6	5.80	119.90	117.00
1	AA	6570	DA	C4-C5-C6	5.80	119.90	117.00
4	A2	6	DA	C4-C5-C6	5.80	119.90	117.00
25	AP	22	DC	N3-C4-N4	5.80	122.06	118.00
27	AR	30	DC	N3-C4-N4	5.80	122.06	118.00
29	AT	12	DA	C4-C5-C6	5.80	119.90	117.00
30	AU	21	DA	C4-C5-C6	5.80	119.90	117.00
38	Ad	24	DC	N3-C4-N4	5.80	122.06	118.00
79	BO	33	DC	N3-C4-N4	5.80	122.06	118.00
91	Ba	14	DA	C5-C6-N6	-5.80	119.06	123.70
100	Bj	34	DA	C5-C6-N6	-5.80	119.06	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
101	Bk	1	DA	C4-C5-C6	5.80	119.90	117.00
102	Bl	48	DT	O4'-C1'-C2'	-5.80	101.26	105.90
106	Bp	41	DA	C5-C6-N6	-5.80	119.06	123.70
119	CB	8	DA	C4-C5-C6	5.80	119.90	117.00
128	CK	2	DA	C4-C5-C6	5.80	119.90	117.00
130	CM	34	DA	C5-C6-N6	-5.80	119.06	123.70
155	Cs	39	DA	C5-C6-N6	-5.80	119.06	123.70
160	Cx	37	DA	C5-C6-N6	-5.80	119.06	123.70
162	Cz	47	DC	O4'-C1'-N1	5.80	112.06	108.00
1	AA	494	DA	C4-C5-C6	5.79	119.90	117.00
1	AA	5086	DA	C5-C6-N6	-5.79	119.06	123.70
1	AA	6014	DA	C5-C6-N6	-5.79	119.06	123.70
1	AA	7143	DA	O4'-C1'-C2'	-5.79	101.26	105.90
24	AO	17	DA	C4-C5-C6	5.79	119.90	117.00
32	AW	16	DA	C4-C5-C6	5.79	119.90	117.00
36	Ab	22	DA	C4-C5-C6	5.79	119.90	117.00
38	Ad	48	DA	C5-C6-N6	-5.79	119.06	123.70
45	Al	40	DA	C5-C6-N6	-5.79	119.06	123.70
78	BN	57	DC	C1'-O4'-C4'	-5.79	104.31	110.10
95	Be	27	DA	C4-C5-C6	5.79	119.90	117.00
115	C5	46	DA	C5-C6-N6	-5.79	119.06	123.70
158	Cv	21	DA	C4-C5-C6	5.79	119.90	117.00
1	AA	1595	DA	C4-C5-C6	5.79	119.90	117.00
1	AA	2788	DA	C4-C5-C6	5.79	119.90	117.00
1	AA	4459	DA	C4-C5-C6	5.79	119.90	117.00
1	AA	4581	DA	C4-C5-C6	5.79	119.90	117.00
1	AA	5268	DA	C4-C5-C6	5.79	119.90	117.00
1	AA	5529	DA	C5-C6-N6	-5.79	119.07	123.70
1	AA	6016	DA	C4-C5-C6	5.79	119.90	117.00
1	AA	6021	DA	C5-C6-N6	-5.79	119.06	123.70
1	AA	6556	DA	C5-C6-N6	-5.79	119.06	123.70
5	A3	36	DG	O4'-C1'-C2'	-5.79	101.27	105.90
60	B4	28	DA	C4-C5-C6	5.79	119.90	117.00
71	BG	44	DC	N3-C4-N4	5.79	122.06	118.00
94	Bd	14	DA	C5-C6-N6	-5.79	119.06	123.70
114	C4	24	DA	C4-C5-C6	5.79	119.90	117.00
116	C6	11	DA	C4-C5-C6	5.79	119.90	117.00
128	CK	12	DA	C5-C6-N1	-5.79	114.80	117.70
134	CQ	2	DA	C5-C6-N6	-5.79	119.06	123.70
147	Ce	15	DA	C4-C5-C6	5.79	119.90	117.00
161	Cy	13	DA	C4-C5-C6	5.79	119.90	117.00
1	AA	66	DA	C4-C5-C6	5.79	119.89	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	995	DA	C4-C5-C6	5.79	119.90	117.00
1	AA	1064	DA	C5-C6-N6	-5.79	119.07	123.70
1	AA	2477	DA	C5-C6-N1	-5.79	114.80	117.70
1	AA	2682	DA	C4-C5-C6	5.79	119.90	117.00
1	AA	2918	DA	C4-C5-C6	5.79	119.90	117.00
1	AA	3966	DA	C4-C5-C6	5.79	119.90	117.00
1	AA	3986	DA	C4-C5-C6	5.79	119.90	117.00
1	AA	4472	DA	C5-C6-N6	-5.79	119.07	123.70
1	AA	5343	DA	C5-C6-N6	-5.79	119.07	123.70
1	AA	5611	DG	O4'-C1'-C2'	-5.79	101.27	105.90
1	AA	5789	DC	N3-C4-N4	5.79	122.05	118.00
1	AA	6803	DA	C4-C5-C6	5.79	119.90	117.00
9	A7	22	DA	C4-C5-C6	5.79	119.90	117.00
13	AD	2	DA	C4-C5-C6	5.79	119.89	117.00
38	Ad	14	DA	C5-C6-N1	-5.79	114.80	117.70
64	B8	22	DA	C5-C6-N6	-5.79	119.07	123.70
69	BE	37	DA	C5-C6-N6	-5.79	119.07	123.70
74	BJ	11	DA	C4-C5-C6	5.79	119.90	117.00
79	BO	26	DA	C4-C5-C6	5.79	119.89	117.00
83	BS	10	DA	C4-C5-C6	5.79	119.90	117.00
110	C0	29	DA	C5-C6-N6	-5.79	119.07	123.70
126	CI	23	DA	C5-C6-N6	-5.79	119.07	123.70
130	CM	51	DA	C4-C5-C6	5.79	119.90	117.00
143	CZ	30	DA	C4-C5-C6	5.79	119.89	117.00
149	Cg	30	DA	C5-C6-N6	-5.79	119.07	123.70
157	Cu	53	DA	C4-C5-C6	5.79	119.90	117.00
1	AA	1571	DA	C5-C6-N6	-5.79	119.07	123.70
1	AA	2400	DA	C5-C6-N6	-5.79	119.07	123.70
1	AA	4121	DA	C4-C5-C6	5.79	119.89	117.00
1	AA	4303	DA	C4-C5-C6	5.79	119.89	117.00
1	AA	6970	DA	C5-C6-N6	-5.79	119.07	123.70
34	AY	15	DC	P-O3'-C3'	5.79	126.65	119.70
74	BJ	5	DA	C5-C6-N6	-5.79	119.07	123.70
94	Bd	16	DA	C4-C5-C6	5.79	119.89	117.00
145	Cc	30	DA	C4-C5-C6	5.79	119.89	117.00
148	Cf	21	DA	C5-C6-N6	-5.79	119.07	123.70
161	Cy	33	DA	C4-C5-C6	5.79	119.89	117.00
1	AA	1069	DA	C5-C6-N6	-5.79	119.07	123.70
1	AA	1784	DA	C4-C5-C6	5.79	119.89	117.00
1	AA	2224	DA	C5-C6-N6	-5.79	119.07	123.70
1	AA	3667	DA	C5-C6-N1	-5.79	114.81	117.70
1	AA	4041	DA	C5-C6-N6	-5.79	119.07	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	4144	DA	C4-C5-C6	5.79	119.89	117.00
1	AA	4262	DC	N3-C4-N4	5.79	122.05	118.00
1	AA	4458	DA	C5-C6-N6	-5.79	119.07	123.70
1	AA	4505	DC	C1'-O4'-C4'	-5.79	104.31	110.10
1	AA	4764	DG	P-O3'-C3'	5.79	126.65	119.70
1	AA	4771	DA	C5-C6-N1	-5.79	114.81	117.70
1	AA	4906	DA	C4-C5-C6	5.79	119.89	117.00
1	AA	5002	DC	N3-C4-N4	5.79	122.05	118.00
1	AA	5031	DA	C5-C6-N6	-5.79	119.07	123.70
1	AA	6001	DA	O4'-C1'-C2'	-5.79	101.27	105.90
1	AA	7002	DA	C4-C5-C6	5.79	119.89	117.00
1	AA	7143	DA	C5-C6-N6	-5.79	119.07	123.70
1	AA	7248	DC	N3-C4-N4	5.79	122.05	118.00
4	A2	1	DA	C4-C5-C6	5.79	119.89	117.00
5	A3	18	DC	N3-C4-C5	-5.79	119.58	121.90
24	AO	35	DA	P-O3'-C3'	5.79	126.65	119.70
45	Al	8	DC	O4'-C1'-N1	5.79	112.05	108.00
47	An	44	DA	C4-C5-C6	5.79	119.89	117.00
60	B4	47	DA	C4-C5-C6	5.79	119.89	117.00
69	BE	13	DA	C4-C5-C6	5.79	119.89	117.00
76	BL	1	DA	C4-C5-C6	5.79	119.89	117.00
82	BR	41	DG	C1'-O4'-C4'	-5.79	104.31	110.10
83	BS	43	DA	C5-C6-N6	-5.79	119.07	123.70
94	Bd	43	DA	C4-C5-C6	5.79	119.89	117.00
98	Bh	33	DA	C5-C6-N6	-5.79	119.07	123.70
101	Bk	37	DA	C4-C5-C6	5.79	119.89	117.00
103	Bm	21	DA	C5-C6-N6	-5.79	119.07	123.70
105	Bo	42	DC	N3-C4-N4	5.79	122.05	118.00
111	C1	28	DA	C4-C5-C6	5.79	119.89	117.00
111	C1	37	DA	C5-C6-N6	-5.79	119.07	123.70
141	CX	28	DG	O4'-C1'-N9	5.79	112.05	108.00
160	Cx	9	DC	N3-C4-N4	5.79	122.05	118.00
161	Cy	55	DA	C4-C5-C6	5.79	119.89	117.00
1	AA	547	DA	C4-C5-C6	5.79	119.89	117.00
1	AA	1690	DA	C5-C6-N6	-5.79	119.07	123.70
1	AA	3606	DA	C4-C5-C6	5.79	119.89	117.00
1	AA	4594	DA	C4-C5-C6	5.79	119.89	117.00
9	A7	43	DA	C4-C5-C6	5.79	119.89	117.00
39	Af	5	DA	C4-C5-C6	5.79	119.89	117.00
49	As	10	DG	O4'-C4'-C3'	-5.79	102.19	104.50
57	B1	9	DA	C5-C6-N6	-5.79	119.07	123.70
61	B5	36	DA	C5-C6-N6	-5.79	119.07	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	BC	37	DA	C5-C6-N6	-5.79	119.07	123.70
73	BI	37	DA	C5-C6-N6	-5.79	119.07	123.70
75	BK	36	DA	C5-C6-N6	-5.79	119.07	123.70
113	C3	13	DA	C5-C6-N6	-5.79	119.07	123.70
119	CB	43	DA	C4-C5-C6	5.79	119.89	117.00
144	Cb	11	DA	O4'-C1'-C2'	-5.79	101.27	105.90
147	Ce	2	DA	C4-C5-C6	5.79	119.89	117.00
1	AA	197	DC	N3-C4-N4	5.79	122.05	118.00
1	AA	1578	DA	C5-C6-N6	-5.79	119.07	123.70
1	AA	2336	DA	C4-C5-C6	5.79	119.89	117.00
1	AA	3019	DC	N3-C4-N4	5.79	122.05	118.00
1	AA	3564	DA	C4-C5-C6	5.79	119.89	117.00
1	AA	4011	DG	C1'-O4'-C4'	-5.79	104.31	110.10
1	AA	4366	DA	C5-C6-N6	-5.79	119.07	123.70
1	AA	4488	DT	O4'-C1'-N1	5.79	112.05	108.00
1	AA	6202	DA	C4-C5-C6	5.79	119.89	117.00
1	AA	6217	DA	C4-C5-C6	5.79	119.89	117.00
1	AA	6608	DC	N3-C4-N4	5.79	122.05	118.00
1	AA	6678	DA	C4-C5-C6	5.79	119.89	117.00
1	AA	6693	DC	N3-C4-N4	5.79	122.05	118.00
2	A0	18	DC	N3-C4-C5	-5.79	119.59	121.90
2	A0	45	DG	C5-C6-O6	-5.79	125.13	128.60
4	A2	15	DA	C4-C5-C6	5.79	119.89	117.00
8	A6	37	DA	C5-C6-N6	-5.79	119.07	123.70
9	A7	42	DA	O4'-C1'-N9	5.79	112.05	108.00
22	AM	4	DA	C4-C5-C6	5.79	119.89	117.00
46	Am	26	DC	N3-C4-C5	-5.79	119.59	121.90
51	Av	32	DA	C4-C5-C6	5.79	119.89	117.00
61	B5	7	DA	C4-C5-C6	5.79	119.89	117.00
67	BC	33	DA	C5-C6-N6	-5.79	119.07	123.70
73	BI	14	DA	C4-C5-C6	5.79	119.89	117.00
157	Cu	49	DG	P-O3'-C3'	5.79	126.64	119.70
1	AA	857	DA	C5-C6-N6	-5.78	119.07	123.70
1	AA	2017	DA	C5-C6-N6	-5.78	119.07	123.70
1	AA	4458	DA	C4-C5-C6	5.78	119.89	117.00
1	AA	4465	DC	N3-C4-C5	-5.78	119.59	121.90
1	AA	5648	DA	C4-C5-C6	5.78	119.89	117.00
8	A6	1	DA	C5-C6-N6	-5.78	119.07	123.70
13	AD	35	DC	N3-C4-N4	5.78	122.05	118.00
16	AG	28	DA	P-O3'-C3'	5.78	126.64	119.70
18	AI	24	DA	C5-C6-N6	-5.78	119.07	123.70
27	AR	40	DA	C4-C5-C6	5.78	119.89	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
41	Ah	39	DA	C4-C5-C6	5.78	119.89	117.00
49	As	1	DA	O4'-C1'-N9	5.78	112.05	108.00
64	B8	10	DA	C4-C5-C6	5.78	119.89	117.00
113	C3	32	DC	N3-C4-N4	5.78	122.05	118.00
116	C6	48	DA	C4-C5-C6	5.78	119.89	117.00
146	Cd	27	DA	C4-C5-C6	5.78	119.89	117.00
154	Cr	45	DA	C5-C6-N6	-5.78	119.07	123.70
155	Cs	40	DA	C5-C6-N1	-5.78	114.81	117.70
157	Cu	16	DA	C5-C6-N6	-5.78	119.07	123.70
162	Cz	35	DC	N3-C4-N4	5.78	122.05	118.00
1	AA	701	DA	C4-C5-C6	5.78	119.89	117.00
1	AA	991	DA	C1'-O4'-C4'	-5.78	104.32	110.10
1	AA	2365	DA	C4-C5-C6	5.78	119.89	117.00
1	AA	2936	DG	P-O3'-C3'	5.78	126.64	119.70
1	AA	3066	DG	O4'-C1'-C2'	-5.78	101.28	105.90
1	AA	4129	DA	C4-C5-C6	5.78	119.89	117.00
1	AA	4553	DA	C5-C6-N6	-5.78	119.07	123.70
1	AA	5438	DA	C5-C6-N6	-5.78	119.07	123.70
1	AA	5642	DA	C4-C5-C6	5.78	119.89	117.00
1	AA	5902	DA	C4-C5-C6	5.78	119.89	117.00
1	AA	6601	DA	C4-C5-C6	5.78	119.89	117.00
1	AA	7073	DA	C4-C5-C6	5.78	119.89	117.00
36	Ab	7	DA	C4-C5-C6	5.78	119.89	117.00
63	B7	8	DA	C4-C5-C6	5.78	119.89	117.00
84	BT	37	DT	P-O3'-C3'	5.78	126.64	119.70
99	Bi	54	DA	P-O3'-C3'	5.78	126.64	119.70
102	Bl	12	DA	C5-C6-N6	-5.78	119.07	123.70
105	Bo	67	DA	C4-C5-C6	5.78	119.89	117.00
112	C2	2	DA	C4-C5-C6	5.78	119.89	117.00
114	C4	63	DA	C5-C6-N6	-5.78	119.07	123.70
131	CN	7	DA	C4-C5-C6	5.78	119.89	117.00
133	CP	22	DA	C4-C5-C6	5.78	119.89	117.00
134	CQ	32	DA	O4'-C1'-C2'	-5.78	101.28	105.90
138	CU	28	DA	C5-C6-N6	-5.78	119.07	123.70
157	Cu	32	DA	C4-C5-C6	5.78	119.89	117.00
1	AA	2086	DA	C4-C5-C6	5.78	119.89	117.00
1	AA	2343	DA	C5-C6-N6	-5.78	119.08	123.70
1	AA	3229	DA	C5-C6-N6	-5.78	119.08	123.70
1	AA	3431	DA	C5-C6-N6	-5.78	119.08	123.70
1	AA	3973	DA	C4-C5-C6	5.78	119.89	117.00
1	AA	4448	DA	C4-C5-C6	5.78	119.89	117.00
1	AA	4520	DA	C5-C6-N6	-5.78	119.08	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	4753	DC	O4'-C1'-C2'	-5.78	101.28	105.90
1	AA	7162	DC	N3-C4-N4	5.78	122.05	118.00
6	A4	28	DA	C4-C5-C6	5.78	119.89	117.00
37	Ac	41	DA	C5-C6-N6	-5.78	119.08	123.70
40	Ag	20	DA	C5-C6-N6	-5.78	119.08	123.70
45	Al	3	DA	C4-C5-C6	5.78	119.89	117.00
49	As	8	DA	C4-C5-C6	5.78	119.89	117.00
51	Av	28	DC	N3-C4-N4	5.78	122.05	118.00
53	Ax	32	DG	O4'-C1'-C2'	-5.78	101.28	105.90
58	B2	27	DA	C4-C5-C6	5.78	119.89	117.00
71	BG	4	DA	C4-C5-C6	5.78	119.89	117.00
89	BY	46	DA	C4-C5-C6	5.78	119.89	117.00
106	Bp	24	DA	C4-C5-C6	5.78	119.89	117.00
106	Bp	30	DG	P-O3'-C3'	5.78	126.64	119.70
111	C1	40	DC	N3-C4-N4	5.78	122.05	118.00
112	C2	15	DC	N3-C4-N4	5.78	122.05	118.00
113	C3	23	DA	C4-C5-C6	5.78	119.89	117.00
121	CD	43	DC	N3-C4-N4	5.78	122.05	118.00
124	CG	40	DA	C4-C5-C6	5.78	119.89	117.00
128	CK	19	DA	C4-C5-C6	5.78	119.89	117.00
135	CR	2	DA	C5-C6-N6	-5.78	119.08	123.70
140	CW	22	DA	C4-C5-C6	5.78	119.89	117.00
146	Cd	40	DA	C4-C5-C6	5.78	119.89	117.00
152	Cp	39	DA	C5-C6-N6	-5.78	119.08	123.70
158	Cv	40	DA	C5-C6-N1	-5.78	114.81	117.70
1	AA	4292	DG	P-O3'-C3'	5.78	126.64	119.70
1	AA	5755	DA	C1'-O4'-C4'	-5.78	104.32	110.10
1	AA	6644	DA	C4-C5-C6	5.78	119.89	117.00
1	AA	6915	DA	C4-C5-C6	5.78	119.89	117.00
31	AV	4	DA	C4-C5-C6	5.78	119.89	117.00
52	Aw	18	DA	C5-C6-N6	-5.78	119.08	123.70
65	B9	18	DC	N3-C4-N4	5.78	122.05	118.00
125	CH	48	DA	C4-C5-C6	5.78	119.89	117.00
135	CR	40	DA	C4-C5-C6	5.78	119.89	117.00
1	AA	1030	DA	C4-C5-C6	5.78	119.89	117.00
1	AA	1352	DA	C4-C5-C6	5.78	119.89	117.00
1	AA	1449	DA	C4-C5-C6	5.78	119.89	117.00
1	AA	1478	DC	N3-C4-N4	5.78	122.04	118.00
1	AA	1710	DA	C5-C6-N6	-5.78	119.08	123.70
1	AA	1804	DA	C4-C5-C6	5.78	119.89	117.00
1	AA	2075	DC	N3-C4-N4	5.78	122.04	118.00
1	AA	2476	DA	C4-C5-C6	5.78	119.89	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2889	DA	C5-C6-N6	-5.78	119.08	123.70
1	AA	3240	DA	C5-C6-N6	-5.78	119.08	123.70
1	AA	3300	DC	N3-C4-N4	5.78	122.05	118.00
1	AA	4342	DA	C5-C6-N6	-5.78	119.08	123.70
1	AA	4878	DA	C4-C5-C6	5.78	119.89	117.00
1	AA	4975	DA	C4-C5-C6	5.78	119.89	117.00
1	AA	5950	DA	C5-C6-N6	-5.78	119.08	123.70
1	AA	6037	DA	C4-C5-C6	5.78	119.89	117.00
1	AA	6265	DA	C4-C5-C6	5.78	119.89	117.00
1	AA	6266	DA	O4'-C1'-N9	5.78	112.04	108.00
5	A3	9	DA	C4-C5-C6	5.78	119.89	117.00
8	A6	41	DA	C5-C6-N6	-5.78	119.08	123.70
16	AG	29	DA	C5-C6-N6	-5.78	119.08	123.70
20	AK	13	DA	C4-C5-C6	5.78	119.89	117.00
31	AV	32	DA	C4-C5-C6	5.78	119.89	117.00
35	AZ	13	DA	C4-C5-C6	5.78	119.89	117.00
41	Ah	18	DC	N3-C4-N4	5.78	122.04	118.00
44	Ak	29	DA	C5-C6-N1	-5.78	114.81	117.70
53	Ax	25	DA	C4-C5-C6	5.78	119.89	117.00
59	B3	48	DA	C4-C5-C6	5.78	119.89	117.00
68	BD	24	DC	N3-C4-N4	5.78	122.05	118.00
112	C2	26	DA	C5-C6-N6	-5.78	119.08	123.70
123	CF	31	DA	C5-C6-N6	-5.78	119.08	123.70
126	CI	18	DA	P-O3'-C3'	5.78	126.63	119.70
143	CZ	15	DA	C4-C5-C6	5.78	119.89	117.00
1	AA	1180	DA	C4-C5-C6	5.78	119.89	117.00
1	AA	2137	DA	C4-C5-C6	5.78	119.89	117.00
1	AA	3466	DA	C4-C5-C6	5.78	119.89	117.00
1	AA	3634	DA	C5-C6-N6	-5.78	119.08	123.70
1	AA	3659	DA	C5-C6-N6	-5.78	119.08	123.70
1	AA	3960	DA	C5-C6-N6	-5.78	119.08	123.70
1	AA	5559	DA	C5-C6-N6	-5.78	119.08	123.70
1	AA	6041	DA	C5-C6-N6	-5.78	119.08	123.70
1	AA	6527	DG	O4'-C1'-N9	5.78	112.04	108.00
1	AA	6728	DA	C4-C5-C6	5.78	119.89	117.00
1	AA	6967	DA	P-O3'-C3'	5.78	126.63	119.70
5	A3	13	DA	C4-C5-C6	5.78	119.89	117.00
50	Au	40	DA	C5-C6-N6	-5.78	119.08	123.70
52	Aw	17	DA	C4-C5-C6	5.78	119.89	117.00
53	Ax	37	DA	C4-C5-C6	5.78	119.89	117.00
66	BB	38	DA	C4-C5-C6	5.78	119.89	117.00
69	BE	44	DA	C4-C5-C6	5.78	119.89	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
78	BN	46	DA	C4-C5-C6	5.78	119.89	117.00
80	BP	12	DA	C4-C5-C6	5.78	119.89	117.00
80	BP	37	DA	C5-C6-N6	-5.78	119.08	123.70
86	BV	40	DC	O4'-C1'-C2'	-5.78	101.28	105.90
92	Bb	15	DA	C4-C5-C6	5.78	119.89	117.00
97	Bg	38	DC	N3-C4-N4	5.78	122.04	118.00
111	C1	15	DA	C4-C5-C6	5.78	119.89	117.00
144	Cb	12	DA	C4-C5-C6	5.78	119.89	117.00
162	Cz	6	DG	O4'-C1'-N9	5.78	112.04	108.00
1	AA	5	DA	C4-C5-C6	5.77	119.89	117.00
1	AA	1403	DA	O4'-C1'-C2'	-5.77	101.28	105.90
1	AA	3418	DA	C4-C5-C6	5.77	119.89	117.00
1	AA	3635	DA	C4-C5-C6	5.77	119.89	117.00
1	AA	4360	DA	C5-C6-N6	-5.77	119.08	123.70
1	AA	4435	DC	N3-C4-N4	5.77	122.04	118.00
1	AA	4735	DA	C4-C5-C6	5.77	119.89	117.00
1	AA	5212	DA	C5-C6-N6	-5.77	119.08	123.70
1	AA	5376	DA	C5-C6-N6	-5.77	119.08	123.70
1	AA	6182	DA	C4-C5-C6	5.77	119.89	117.00
1	AA	6728	DA	C5-C6-N6	-5.77	119.08	123.70
2	A0	8	DA	C5-C6-N6	-5.77	119.08	123.70
3	A1	26	DA	C4-C5-C6	5.77	119.89	117.00
8	A6	25	DA	C4-C5-C6	5.77	119.89	117.00
55	Az	10	DA	C4-C5-C6	5.77	119.89	117.00
89	BY	36	DA	P-O3'-C3'	5.77	126.63	119.70
99	Bi	37	DA	C4-C5-C6	5.77	119.89	117.00
112	C2	22	DA	C5-C6-N6	-5.77	119.08	123.70
115	C5	41	DC	N3-C4-N4	5.77	122.04	118.00
127	CJ	2	DA	C5-C6-N6	-5.77	119.08	123.70
1	AA	1213	DA	C4-C5-C6	5.77	119.89	117.00
1	AA	2606	DC	N3-C4-N4	5.77	122.04	118.00
1	AA	3486	DA	C5-C6-N6	-5.77	119.08	123.70
1	AA	5445	DA	C5-C6-N6	-5.77	119.08	123.70
1	AA	5498	DA	C4-C5-C6	5.77	119.89	117.00
7	A5	15	DA	C5-C6-N6	-5.77	119.08	123.70
12	AC	40	DA	C4-C5-C6	5.77	119.89	117.00
33	AX	48	DA	C4-C5-C6	5.77	119.89	117.00
51	Av	40	DA	C4-C5-C6	5.77	119.89	117.00
53	Ax	8	DA	C4-C5-C6	5.77	119.89	117.00
55	Az	15	DA	C5-C6-N1	-5.77	114.81	117.70
59	B3	38	DA	C4-C5-C6	5.77	119.89	117.00
79	BO	21	DA	C4-C5-C6	5.77	119.89	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
82	BR	1	DA	C4-C5-C6	5.77	119.89	117.00
85	BU	49	DA	P-O3'-C3'	5.77	126.63	119.70
99	Bi	55	DA	C5-C6-N1	-5.77	114.81	117.70
100	Bj	31	DA	C4-C5-C6	5.77	119.89	117.00
101	Bk	30	DA	C4-C5-C6	5.77	119.89	117.00
125	CH	31	DA	C4-C5-C6	5.77	119.89	117.00
132	CO	4	DA	C4-C5-C6	5.77	119.89	117.00
153	Cq	40	DA	C4-C5-C6	5.77	119.89	117.00
157	Cu	31	DA	C4-C5-C6	5.77	119.89	117.00
1	AA	2324	DA	C4-C5-C6	5.77	119.89	117.00
1	AA	3967	DA	C4-C5-C6	5.77	119.89	117.00
1	AA	5659	DA	C5-C6-N6	-5.77	119.08	123.70
32	AW	47	DA	C5-C6-N6	-5.77	119.08	123.70
35	AZ	33	DA	C4-C5-C6	5.77	119.89	117.00
43	Aj	49	DA	C5-C6-N6	-5.77	119.08	123.70
72	BH	25	DA	C5-C6-N6	-5.77	119.08	123.70
83	BS	41	DA	C4-C5-C6	5.77	119.89	117.00
86	BV	43	DA	C5-C6-N6	-5.77	119.08	123.70
104	Bn	47	DG	O4'-C1'-C2'	-5.77	101.28	105.90
125	CH	2	DA	C4-C5-C6	5.77	119.89	117.00
127	CJ	42	DA	C4-C5-C6	5.77	119.89	117.00
127	CJ	45	DA	C4-C5-C6	5.77	119.89	117.00
156	Ct	36	DA	C5-C6-N1	-5.77	114.81	117.70
161	Cy	15	DA	C4-C5-C6	5.77	119.89	117.00
1	AA	467	DA	C4-C5-C6	5.77	119.89	117.00
1	AA	1673	DA	C5-C6-N6	-5.77	119.08	123.70
1	AA	2060	DA	C5-C6-N6	-5.77	119.08	123.70
1	AA	2554	DC	N3-C4-N4	5.77	122.04	118.00
1	AA	3217	DA	C4-C5-C6	5.77	119.88	117.00
1	AA	3269	DA	C4-C5-C6	5.77	119.89	117.00
1	AA	3345	DA	C5-C6-N1	-5.77	114.81	117.70
1	AA	3645	DC	N3-C4-N4	5.77	122.04	118.00
1	AA	3757	DA	C4-C5-C6	5.77	119.88	117.00
1	AA	4130	DA	C4-C5-C6	5.77	119.89	117.00
1	AA	4317	DA	C4-C5-C6	5.77	119.89	117.00
1	AA	4445	DC	N3-C4-N4	5.77	122.04	118.00
1	AA	4962	DC	N3-C4-C5	-5.77	119.59	121.90
1	AA	5996	DC	N3-C4-C5	-5.77	119.59	121.90
1	AA	7106	DC	N3-C4-N4	5.77	122.04	118.00
2	A0	42	DC	N3-C4-N4	5.77	122.04	118.00
6	A4	44	DA	C5-C6-N6	-5.77	119.08	123.70
19	AJ	40	DC	N3-C4-N4	5.77	122.04	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
46	Am	28	DA	C5-C6-N1	-5.77	114.81	117.70
47	An	27	DA	C4-C5-C6	5.77	119.89	117.00
48	Ao	20	DC	N3-C4-N4	5.77	122.04	118.00
66	BB	34	DA	C4-C5-C6	5.77	119.88	117.00
71	BG	26	DC	N3-C4-N4	5.77	122.04	118.00
74	BJ	31	DA	C5-C6-N6	-5.77	119.08	123.70
86	BV	24	DA	C4-C5-C6	5.77	119.89	117.00
111	C1	46	DA	C4-C5-C6	5.77	119.89	117.00
126	CI	19	DA	C4-C5-C6	5.77	119.89	117.00
130	CM	29	DA	C4-C5-C6	5.77	119.88	117.00
132	CO	14	DG	C4'-C3'-C2'	-5.77	97.91	103.10
144	Cb	43	DA	C5-C6-N1	-5.77	114.81	117.70
1	AA	392	DA	C5-C6-N6	-5.77	119.09	123.70
1	AA	465	DT	O4'-C4'-C3'	-5.77	102.19	104.50
1	AA	571	DA	C4-C5-C6	5.77	119.88	117.00
1	AA	695	DA	C4-C5-C6	5.77	119.88	117.00
1	AA	1460	DC	N3-C4-C5	-5.77	119.59	121.90
1	AA	1464	DA	C5-C6-N1	-5.77	114.82	117.70
1	AA	2015	DA	C4-C5-C6	5.77	119.88	117.00
1	AA	2205	DA	C4-C5-C6	5.77	119.88	117.00
1	AA	2717	DA	C5-C6-N6	-5.77	119.09	123.70
1	AA	3994	DA	C4-C5-C6	5.77	119.88	117.00
1	AA	4311	DA	C4-C5-C6	5.77	119.88	117.00
1	AA	4473	DA	C5-C6-N6	-5.77	119.09	123.70
1	AA	4881	DA	C5-C6-N1	-5.77	114.82	117.70
1	AA	5052	DC	N3-C4-N4	5.77	122.04	118.00
1	AA	5408	DA	C5-C6-N1	-5.77	114.82	117.70
1	AA	5543	DA	C4-C5-C6	5.77	119.88	117.00
1	AA	5924	DA	C5-C6-N6	-5.77	119.09	123.70
1	AA	6267	DA	C4-C5-C6	5.77	119.88	117.00
4	A2	12	DA	C5-C6-N6	-5.77	119.09	123.70
7	A5	21	DA	C4-C5-C6	5.77	119.88	117.00
30	AU	19	DA	C5-C6-N6	-5.77	119.09	123.70
44	Ak	43	DC	N3-C4-N4	5.77	122.04	118.00
61	B5	36	DA	C4-C5-C6	5.77	119.88	117.00
69	BE	39	DA	C4-C5-C6	5.77	119.88	117.00
71	BG	34	DC	O4'-C1'-N1	5.77	112.04	108.00
75	BK	1	DC	N3-C4-N4	5.77	122.04	118.00
83	BS	14	DC	N3-C4-C5	-5.77	119.59	121.90
99	Bi	43	DA	C4-C5-C6	5.77	119.88	117.00
103	Bm	42	DA	C4-C5-C6	5.77	119.88	117.00
121	CD	27	DA	C5-C6-N6	-5.77	119.09	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
128	CK	4	DC	N3-C4-N4	5.77	122.04	118.00
131	CN	3	DA	C4-C5-C6	5.77	119.88	117.00
132	CO	31	DA	C4-C5-C6	5.77	119.88	117.00
135	CR	24	DA	C4-C5-C6	5.77	119.88	117.00
148	Cf	21	DA	C4-C5-C6	5.77	119.88	117.00
149	Cg	10	DA	C4-C5-C6	5.77	119.88	117.00
153	Cq	4	DA	C4-C5-C6	5.77	119.88	117.00
153	Cq	32	DA	C4-C5-C6	5.77	119.88	117.00
1	AA	216	DA	C5-C6-N6	-5.77	119.09	123.70
1	AA	1037	DT	O4'-C1'-N1	5.77	112.04	108.00
1	AA	1391	DC	N3-C4-N4	5.77	122.04	118.00
1	AA	6799	DA	C4-C5-C6	5.77	119.88	117.00
17	AH	3	DA	C4-C5-C6	5.77	119.88	117.00
28	AS	39	DA	C4-C5-C6	5.77	119.88	117.00
1	AA	99	DT	P-O3'-C3'	5.76	126.62	119.70
1	AA	651	DA	C4-C5-C6	5.76	119.88	117.00
1	AA	873	DC	N3-C4-N4	5.76	122.03	118.00
1	AA	1211	DA	C4-C5-C6	5.76	119.88	117.00
1	AA	3827	DC	N3-C4-N4	5.76	122.03	118.00
1	AA	4705	DA	C4-C5-C6	5.76	119.88	117.00
1	AA	4844	DA	C4-C5-C6	5.76	119.88	117.00
1	AA	5009	DT	O4'-C1'-C2'	-5.76	101.29	105.90
1	AA	6280	DA	C4-C5-C6	5.76	119.88	117.00
1	AA	6930	DC	N3-C4-N4	5.76	122.03	118.00
1	AA	6940	DA	C5-C6-N6	-5.76	119.09	123.70
1	AA	7207	DA	C5-C6-N6	-5.76	119.09	123.70
13	AD	23	DA	O4'-C1'-N9	5.76	112.03	108.00
16	AG	28	DA	C4-C5-C6	5.76	119.88	117.00
21	AL	38	DC	N3-C4-N4	5.76	122.03	118.00
31	AV	35	DA	C4-C5-C6	5.76	119.88	117.00
39	Af	21	DA	C5-C6-N6	-5.76	119.09	123.70
42	Ai	2	DA	C5-C6-N6	-5.76	119.09	123.70
43	Aj	51	DA	C5-C6-N6	-5.76	119.09	123.70
44	Ak	1	DA	O4'-C1'-N9	5.76	112.03	108.00
44	Ak	30	DA	O4'-C1'-C2'	-5.76	101.29	105.90
50	Au	16	DA	C4-C5-C6	5.76	119.88	117.00
75	BK	18	DA	C5-C6-N6	-5.76	119.09	123.70
96	Bf	32	DA	C5-C6-N6	-5.76	119.09	123.70
103	Bm	35	DC	N3-C4-N4	5.76	122.04	118.00
109	Bs	41	DA	C4-C5-C6	5.76	119.88	117.00
115	C5	10	DA	C4-C5-C6	5.76	119.88	117.00
122	CE	32	DA	C5-C6-N1	-5.76	114.82	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
147	Ce	50	DC	C5'-C4'-C3'	-5.76	103.72	114.10
153	Cq	35	DA	C5-C6-N6	-5.76	119.09	123.70
159	Cw	52	DA	C5-C6-N6	-5.76	119.09	123.70
1	AA	402	DC	N3-C4-N4	5.76	122.03	118.00
1	AA	573	DA	O4'-C1'-C2'	-5.76	101.29	105.90
1	AA	1182	DT	O4'-C4'-C3'	-5.76	102.19	104.50
1	AA	1684	DC	N3-C4-C5	-5.76	119.59	121.90
1	AA	2328	DA	C5-C6-N6	-5.76	119.09	123.70
1	AA	4228	DC	N3-C4-C5	-5.76	119.59	121.90
1	AA	5387	DA	C5-C6-N1	-5.76	114.82	117.70
1	AA	6113	DA	C4-C5-C6	5.76	119.88	117.00
1	AA	6168	DA	C4-C5-C6	5.76	119.88	117.00
1	AA	6890	DA	C5-C6-N6	-5.76	119.09	123.70
36	Ab	44	DA	C5-C6-N6	-5.76	119.09	123.70
58	B2	3	DA	C4-C5-C6	5.76	119.88	117.00
81	BQ	28	DA	C5-C6-N6	-5.76	119.09	123.70
90	BZ	36	DC	N3-C4-C5	-5.76	119.59	121.90
107	Bq	26	DA	C5-C6-N6	-5.76	119.09	123.70
119	CB	21	DA	C5-C6-N6	-5.76	119.09	123.70
121	CD	48	DA	C4-C5-C6	5.76	119.88	117.00
136	CS	4	DA	C4-C5-C6	5.76	119.88	117.00
142	CY	15	DA	C4-C5-C6	5.76	119.88	117.00
155	Cs	12	DA	C4-C5-C6	5.76	119.88	117.00
1	AA	281	DA	C4-C5-C6	5.76	119.88	117.00
1	AA	777	DA	C4-C5-C6	5.76	119.88	117.00
1	AA	1468	DC	N3-C4-N4	5.76	122.03	118.00
1	AA	1727	DA	C4-C5-C6	5.76	119.88	117.00
1	AA	1859	DA	C5-C6-N6	-5.76	119.09	123.70
1	AA	1861	DA	C5-C6-N6	-5.76	119.09	123.70
1	AA	2218	DA	C4-C5-C6	5.76	119.88	117.00
1	AA	2858	DA	C5-C6-N6	-5.76	119.09	123.70
1	AA	3032	DA	C4-C5-C6	5.76	119.88	117.00
1	AA	3161	DA	C5-C6-N1	-5.76	114.82	117.70
1	AA	3946	DA	C5-C6-N6	-5.76	119.09	123.70
1	AA	3948	DA	C4-C5-C6	5.76	119.88	117.00
1	AA	4550	DA	C5-C6-N6	-5.76	119.09	123.70
1	AA	4672	DA	C4-C5-C6	5.76	119.88	117.00
1	AA	5018	DA	C4-C5-C6	5.76	119.88	117.00
1	AA	5347	DA	C5-C6-N6	-5.76	119.09	123.70
1	AA	5747	DA	C4-C5-C6	5.76	119.88	117.00
1	AA	5803	DA	C1'-O4'-C4'	-5.76	104.34	110.10
1	AA	6481	DA	C4-C5-C6	5.76	119.88	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6536	DA	C5-C6-N6	-5.76	119.09	123.70
9	A7	12	DA	C5-C6-N6	-5.76	119.09	123.70
9	A7	37	DA	C4-C5-C6	5.76	119.88	117.00
22	AM	37	DA	C4-C5-C6	5.76	119.88	117.00
25	AP	23	DA	C4-C5-C6	5.76	119.88	117.00
26	AQ	10	DA	C4-C5-C6	5.76	119.88	117.00
28	AS	9	DA	C4-C5-C6	5.76	119.88	117.00
28	AS	60	DC	P-O3'-C3'	5.76	126.61	119.70
30	AU	7	DA	C5-C6-N6	-5.76	119.09	123.70
40	Ag	1	DA	C5-C6-N6	-5.76	119.09	123.70
53	Ax	1	DC	N3-C4-N4	5.76	122.03	118.00
59	B3	44	DA	C5-C6-N6	-5.76	119.09	123.70
65	B9	4	DA	C4-C5-C6	5.76	119.88	117.00
71	BG	39	DA	C5-C6-N6	-5.76	119.09	123.70
77	BM	17	DA	C4-C5-C6	5.76	119.88	117.00
79	BO	1	DA	O4'-C1'-C2'	-5.76	101.29	105.90
120	CC	10	DA	C4-C5-C6	5.76	119.88	117.00
123	CF	34	DA	C4-C5-C6	5.76	119.88	117.00
126	CI	37	DC	N3-C4-N4	5.76	122.03	118.00
143	CZ	35	DA	C5-C6-N6	-5.76	119.09	123.70
150	Ch	5	DA	C5-C6-N6	-5.76	119.09	123.70
155	Cs	32	DA	C5-C6-N6	-5.76	119.09	123.70
161	Cy	58	DA	C5-C6-N6	-5.76	119.09	123.70
162	Cz	17	DC	N3-C4-N4	5.76	122.03	118.00
1	AA	276	DA	C4-C5-C6	5.76	119.88	117.00
1	AA	677	DC	N3-C4-N4	5.76	122.03	118.00
1	AA	1008	DA	C5-C6-N6	-5.76	119.09	123.70
1	AA	1191	DA	C4-C5-C6	5.76	119.88	117.00
1	AA	2059	DC	N3-C4-N4	5.76	122.03	118.00
1	AA	2111	DA	C5-C6-N6	-5.76	119.09	123.70
1	AA	3179	DC	N3-C4-C5	-5.76	119.60	121.90
1	AA	4378	DT	O4'-C1'-N1	5.76	112.03	108.00
1	AA	4457	DA	O4'-C1'-C2'	-5.76	101.29	105.90
1	AA	4894	DC	N3-C4-N4	5.76	122.03	118.00
1	AA	5311	DA	C4-C5-C6	5.76	119.88	117.00
1	AA	5347	DA	O4'-C4'-C3'	-5.76	102.20	104.50
1	AA	5458	DA	C5-C6-N6	-5.76	119.09	123.70
1	AA	5738	DA	C5-C6-N1	-5.76	114.82	117.70
1	AA	6044	DA	C4-C5-C6	5.76	119.88	117.00
1	AA	6436	DC	N3-C4-N4	5.76	122.03	118.00
5	A3	39	DA	C4-C5-C6	5.76	119.88	117.00
10	A8	11	DA	C5-C6-N6	-5.76	119.09	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	A8	35	DA	C5-C6-N1	-5.76	114.82	117.70
15	AF	39	DA	C4-C5-C6	5.76	119.88	117.00
39	Af	18	DC	N3-C4-N4	5.76	122.03	118.00
45	Al	46	DA	C4-C5-C6	5.76	119.88	117.00
45	Al	48	DA	C1'-O4'-C4'	-5.76	104.34	110.10
47	An	37	DA	C4-C5-C6	5.76	119.88	117.00
50	Au	43	DA	C4-C5-C6	5.76	119.88	117.00
53	Ax	2	DG	O4'-C1'-N9	5.76	112.03	108.00
69	BE	37	DA	C4-C5-C6	5.76	119.88	117.00
87	BW	34	DA	C5-C6-N6	-5.76	119.09	123.70
94	Bd	24	DA	C5-C6-N1	-5.76	114.82	117.70
103	Bm	10	DC	N3-C4-N4	5.76	122.03	118.00
103	Bm	13	DC	N3-C4-N4	5.76	122.03	118.00
105	Bo	38	DA	C4-C5-C6	5.76	119.88	117.00
109	Bs	8	DA	C4-C5-C6	5.76	119.88	117.00
109	Bs	39	DA	C5-C6-N6	-5.76	119.09	123.70
131	CN	4	DA	C4-C5-C6	5.76	119.88	117.00
131	CN	4	DA	C5-C6-N6	-5.76	119.09	123.70
131	CN	13	DA	C5-C6-N6	-5.76	119.09	123.70
131	CN	29	DA	C4-C5-C6	5.76	119.88	117.00
134	CQ	31	DA	O4'-C1'-N9	5.76	112.03	108.00
139	CV	32	DA	C4-C5-C6	5.76	119.88	117.00
142	CY	21	DC	N3-C4-N4	5.76	122.03	118.00
145	Cc	15	DC	N3-C4-N4	5.76	122.03	118.00
153	Cq	10	DT	O4'-C1'-N1	5.76	112.03	108.00
1	AA	797	DC	N3-C4-N4	5.76	122.03	118.00
1	AA	987	DA	C4-C5-C6	5.76	119.88	117.00
1	AA	1421	DA	C5-C6-N6	-5.76	119.09	123.70
1	AA	2056	DA	C4-C5-C6	5.76	119.88	117.00
1	AA	3244	DA	C5-C6-N6	-5.76	119.09	123.70
1	AA	3278	DA	C5-C6-N6	-5.76	119.09	123.70
1	AA	4780	DA	C4-C5-C6	5.76	119.88	117.00
1	AA	5045	DA	C5-C6-N6	-5.76	119.09	123.70
1	AA	5727	DA	O4'-C1'-N9	5.76	112.03	108.00
1	AA	6808	DA	C5-C6-N6	-5.76	119.09	123.70
4	A2	41	DT	C4'-C3'-C2'	-5.76	97.92	103.10
19	AJ	41	DA	C5-C6-N1	-5.76	114.82	117.70
37	Ac	34	DA	C4-C5-C6	5.76	119.88	117.00
42	Ai	3	DA	C4-C5-C6	5.76	119.88	117.00
86	BV	26	DC	N3-C4-N4	5.76	122.03	118.00
103	Bm	46	DA	C4-C5-C6	5.76	119.88	117.00
130	CM	52	DA	C4-C5-C6	5.76	119.88	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
137	CT	17	DA	C4-C5-C6	5.76	119.88	117.00
143	CZ	14	DA	C4-C5-C6	5.76	119.88	117.00
1	AA	702	DA	C4-C5-C6	5.76	119.88	117.00
1	AA	1038	DA	C4-C5-C6	5.76	119.88	117.00
1	AA	1052	DA	C5-C6-N6	-5.76	119.09	123.70
1	AA	1546	DA	C4-C5-C6	5.76	119.88	117.00
1	AA	1691	DC	C1'-O4'-C4'	-5.76	104.34	110.10
1	AA	3427	DA	C4-C5-C6	5.76	119.88	117.00
1	AA	4776	DC	N3-C4-N4	5.76	122.03	118.00
1	AA	5557	DA	C5-C6-N6	-5.76	119.09	123.70
1	AA	5706	DA	C4-C5-C6	5.76	119.88	117.00
1	AA	5950	DA	C5-C6-N1	-5.76	114.82	117.70
1	AA	6051	DA	C5-C6-N6	-5.76	119.09	123.70
1	AA	7200	DA	C4-C5-C6	5.76	119.88	117.00
3	A1	23	DA	C4-C5-C6	5.76	119.88	117.00
6	A4	43	DA	C4-C5-C6	5.76	119.88	117.00
17	AH	14	DC	N3-C4-N4	5.76	122.03	118.00
17	AH	18	DC	N3-C4-N4	5.76	122.03	118.00
31	AV	47	DA	C4-C5-C6	5.76	119.88	117.00
38	Ad	14	DA	C4-C5-C6	5.76	119.88	117.00
46	Am	35	DA	C4-C5-C6	5.76	119.88	117.00
47	An	9	DA	C5-C6-N1	-5.76	114.82	117.70
77	BM	5	DA	C4-C5-C6	5.76	119.88	117.00
98	Bh	7	DA	C5-C6-N6	-5.76	119.09	123.70
99	Bi	33	DC	O4'-C1'-C2'	-5.76	101.30	105.90
101	Bk	43	DG	P-O5'-C5'	-5.76	111.69	120.90
105	Bo	44	DA	C5-C6-N6	-5.76	119.09	123.70
119	CB	43	DA	C5-C6-N6	-5.76	119.09	123.70
144	Cb	22	DC	N3-C4-N4	5.76	122.03	118.00
144	Cb	27	DA	C3'-C2'-C1'	-5.76	95.59	102.50
152	Cp	46	DA	C5-C6-N6	-5.76	119.09	123.70
162	Cz	27	DA	C4-C5-C6	5.76	119.88	117.00
1	AA	1897	DC	N3-C4-N4	5.75	122.03	118.00
1	AA	2772	DC	N3-C4-N4	5.75	122.03	118.00
1	AA	3002	DA	C5-C6-N6	-5.75	119.10	123.70
1	AA	3564	DA	C5-C6-N6	-5.75	119.10	123.70
1	AA	4454	DC	N3-C4-N4	5.75	122.03	118.00
1	AA	4676	DA	C4-C5-C6	5.75	119.88	117.00
1	AA	4888	DA	C4-C5-C6	5.75	119.88	117.00
1	AA	6017	DA	C5-C6-N6	-5.75	119.10	123.70
1	AA	6443	DC	N3-C4-C5	-5.75	119.60	121.90
25	AP	6	DC	N3-C4-N4	5.75	122.03	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
42	Ai	12	DC	N3-C4-C5	-5.75	119.60	121.90
43	Aj	27	DC	N3-C4-N4	5.75	122.03	118.00
61	B5	20	DA	C5-C6-N1	-5.75	114.82	117.70
73	BI	22	DC	N3-C4-N4	5.75	122.03	118.00
76	BL	44	DA	C4-C5-C6	5.75	119.88	117.00
102	Bl	32	DA	C5-C6-N6	-5.75	119.10	123.70
116	C6	25	DA	C5-C6-N6	-5.75	119.10	123.70
121	CD	17	DA	C4-C5-C6	5.75	119.88	117.00
130	CM	52	DA	C5-C6-N6	-5.75	119.10	123.70
137	CT	40	DA	C5-C6-N1	-5.75	114.82	117.70
1	AA	1387	DA	C4-C5-C6	5.75	119.88	117.00
1	AA	3523	DA	C5-C6-N6	-5.75	119.10	123.70
1	AA	5440	DC	N3-C4-C5	-5.75	119.60	121.90
1	AA	6516	DA	C4-C5-C6	5.75	119.88	117.00
1	AA	6970	DA	C4-C5-C6	5.75	119.88	117.00
6	A4	23	DA	C4-C5-C6	5.75	119.88	117.00
20	AK	48	DA	C4-C5-C6	5.75	119.88	117.00
28	AS	37	DA	C5-C6-N1	-5.75	114.82	117.70
28	AS	42	DA	C4-C5-C6	5.75	119.88	117.00
41	Ah	15	DA	C4-C5-C6	5.75	119.88	117.00
45	Al	33	DA	C5-C6-N6	-5.75	119.10	123.70
51	Av	11	DC	N3-C4-N4	5.75	122.03	118.00
60	B4	15	DA	C4-C5-C6	5.75	119.88	117.00
64	B8	24	DA	C4-C5-C6	5.75	119.88	117.00
67	BC	12	DA	C4-C5-C6	5.75	119.88	117.00
71	BG	45	DA	C5-C6-N6	-5.75	119.10	123.70
74	BJ	5	DA	C4-C5-C6	5.75	119.88	117.00
88	BX	37	DA	C4-C5-C6	5.75	119.88	117.00
90	BZ	65	DA	C4-C5-C6	5.75	119.88	117.00
113	C3	4	DA	C4-C5-C6	5.75	119.88	117.00
128	CK	14	DC	O4'-C1'-C2'	-5.75	101.30	105.90
144	Cb	44	DA	C5-C6-N6	-5.75	119.10	123.70
160	Cx	8	DA	C4-C5-C6	5.75	119.88	117.00
161	Cy	59	DA	C4-C5-C6	5.75	119.88	117.00
1	AA	19	DC	N3-C4-C5	-5.75	119.60	121.90
1	AA	148	DA	C5-C6-N6	-5.75	119.10	123.70
1	AA	1410	DA	C4-C5-C6	5.75	119.88	117.00
1	AA	1611	DA	C5-C6-N6	-5.75	119.10	123.70
1	AA	2978	DA	C5-C6-N6	-5.75	119.10	123.70
1	AA	4360	DA	C4-C5-C6	5.75	119.88	117.00
1	AA	6222	DA	C5-C6-N6	-5.75	119.10	123.70
1	AA	6526	DA	C5-C6-N6	-5.75	119.10	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6760	DA	O4'-C1'-N9	5.75	112.03	108.00
8	A6	20	DA	C4-C5-C6	5.75	119.88	117.00
20	AK	56	DA	C4-C5-C6	5.75	119.88	117.00
25	AP	13	DC	N3-C4-N4	5.75	122.03	118.00
33	AX	18	DA	C4-C5-C6	5.75	119.88	117.00
36	Ab	30	DA	C4-C5-C6	5.75	119.88	117.00
40	Ag	47	DA	C4-C5-C6	5.75	119.88	117.00
50	Au	14	DC	N3-C4-N4	5.75	122.03	118.00
55	Az	1	DA	C5-C6-N6	-5.75	119.10	123.70
62	B6	45	DA	C4-C5-C6	5.75	119.88	117.00
71	BG	13	DC	N3-C4-N4	5.75	122.03	118.00
81	BQ	43	DA	C4-C5-C6	5.75	119.88	117.00
109	Bs	16	DA	C5-C6-N6	-5.75	119.10	123.70
119	CB	4	DA	C5-C6-N6	-5.75	119.10	123.70
119	CB	17	DC	N3-C4-N4	5.75	122.03	118.00
122	CE	31	DT	O4'-C1'-C2'	-5.75	101.30	105.90
122	CE	36	DC	N3-C4-N4	5.75	122.03	118.00
130	CM	23	DA	C5-C6-N6	-5.75	119.10	123.70
146	Cd	30	DA	C5-C6-N6	-5.75	119.10	123.70
146	Cd	31	DA	C4-C5-C6	5.75	119.88	117.00
147	Ce	47	DA	C4-C5-C6	5.75	119.88	117.00
156	Ct	11	DT	O4'-C1'-N1	5.75	112.03	108.00
158	Cv	17	DA	C4-C5-C6	5.75	119.88	117.00
161	Cy	50	DA	C5-C6-N6	-5.75	119.10	123.70
1	AA	728	DC	N3-C4-N4	5.75	122.03	118.00
1	AA	1085	DG	O4'-C1'-N9	5.75	112.03	108.00
1	AA	1722	DA	C5-C6-N6	-5.75	119.10	123.70
1	AA	1936	DC	N3-C4-N4	5.75	122.03	118.00
1	AA	2097	DA	C5-C6-N6	-5.75	119.10	123.70
1	AA	2255	DA	C5-C6-N1	-5.75	114.83	117.70
1	AA	2753	DC	N3-C4-N4	5.75	122.03	118.00
1	AA	3170	DA	C4-C5-C6	5.75	119.88	117.00
1	AA	4130	DA	C5-C6-N6	-5.75	119.10	123.70
1	AA	4182	DC	N3-C4-N4	5.75	122.03	118.00
1	AA	5405	DC	N3-C4-N4	5.75	122.03	118.00
1	AA	5627	DC	O4'-C1'-N1	5.75	112.03	108.00
1	AA	5734	DA	C4-C5-C6	5.75	119.88	117.00
1	AA	6233	DA	C5-C6-N6	-5.75	119.10	123.70
1	AA	6578	DA	C4-C5-C6	5.75	119.88	117.00
1	AA	6840	DA	C5-C6-N6	-5.75	119.10	123.70
1	AA	7206	DA	C4-C5-C6	5.75	119.88	117.00
4	A2	34	DA	O4'-C1'-N9	5.75	112.03	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	A7	26	DC	N3-C4-C5	-5.75	119.60	121.90
11	AB	11	DA	C4-C5-C6	5.75	119.88	117.00
37	Ac	3	DA	C4-C5-C6	5.75	119.88	117.00
46	Am	29	DC	O4'-C1'-N1	5.75	112.03	108.00
105	Bo	29	DC	N3-C4-N4	5.75	122.03	118.00
146	Cd	2	DA	C4-C5-C6	5.75	119.88	117.00
147	Ce	43	DA	C4-C5-C6	5.75	119.88	117.00
1	AA	92	DC	N3-C4-N4	5.75	122.02	118.00
1	AA	223	DA	C5-C6-N6	-5.75	119.10	123.70
1	AA	395	DA	C4-C5-C6	5.75	119.87	117.00
1	AA	589	DA	C5-C6-N6	-5.75	119.10	123.70
1	AA	602	DA	C4-C5-C6	5.75	119.87	117.00
1	AA	987	DA	C5-C6-N6	-5.75	119.10	123.70
1	AA	2014	DA	C5-C6-N6	-5.75	119.10	123.70
1	AA	3047	DA	C5-C6-N1	-5.75	114.83	117.70
1	AA	3612	DA	C4-C5-C6	5.75	119.87	117.00
1	AA	3757	DA	C5-C6-N6	-5.75	119.10	123.70
1	AA	4477	DA	C4-C5-C6	5.75	119.87	117.00
1	AA	5652	DA	C5-C6-N6	-5.75	119.10	123.70
1	AA	6014	DA	C4-C5-C6	5.75	119.87	117.00
1	AA	6467	DC	N3-C4-N4	5.75	122.02	118.00
1	AA	7111	DC	N3-C4-N4	5.75	122.02	118.00
13	AD	33	DA	C5-C6-N6	-5.75	119.10	123.70
42	Ai	34	DT	O4'-C4'-C3'	-5.75	102.20	104.50
74	BJ	12	DA	C4-C5-C6	5.75	119.87	117.00
103	Bm	39	DA	C5-C6-N6	-5.75	119.10	123.70
109	Bs	40	DA	C4-C5-C6	5.75	119.87	117.00
114	C4	62	DA	C4-C5-C6	5.75	119.87	117.00
128	CK	28	DC	O4'-C1'-C2'	-5.75	101.30	105.90
148	Cf	14	DA	C4-C5-C6	5.75	119.88	117.00
162	Cz	13	DA	C5-C6-N6	-5.75	119.10	123.70
1	AA	111	DA	P-O3'-C3'	5.75	126.60	119.70
1	AA	242	DA	C5-C6-N6	-5.75	119.10	123.70
1	AA	1047	DA	C4-C5-C6	5.75	119.87	117.00
1	AA	1808	DC	N3-C4-C5	-5.75	119.60	121.90
1	AA	4609	DT	O4'-C4'-C3'	-5.75	102.20	104.50
1	AA	5350	DA	C5-C6-N6	-5.75	119.10	123.70
1	AA	6730	DA	C4-C5-C6	5.75	119.87	117.00
17	AH	46	DA	C4-C5-C6	5.75	119.87	117.00
31	AV	22	DA	C5-C6-N1	-5.75	114.83	117.70
36	Ab	17	DA	C4-C5-C6	5.75	119.87	117.00
57	B1	32	DA	C4-C5-C6	5.75	119.87	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
59	B3	46	DC	N3-C4-C5	-5.75	119.60	121.90
71	BG	16	DA	C5-C6-N6	-5.75	119.10	123.70
74	BJ	38	DA	C4-C5-C6	5.75	119.87	117.00
78	BN	21	DA	C4-C5-C6	5.75	119.87	117.00
100	Bj	24	DC	N3-C4-C5	-5.75	119.60	121.90
101	Bk	2	DA	C5-C6-N6	-5.75	119.10	123.70
107	Bq	40	DA	C4-C5-C6	5.75	119.87	117.00
107	Bq	56	DC	P-O3'-C3'	-5.75	112.80	119.70
129	CL	14	DA	C5-C6-N6	-5.75	119.10	123.70
144	Cb	11	DA	C4-C5-C6	5.75	119.87	117.00
1	AA	848	DA	C4-C5-C6	5.75	119.87	117.00
1	AA	4954	DA	O4'-C1'-C2'	-5.75	101.30	105.90
1	AA	5346	DA	C5-C6-N6	-5.75	119.10	123.70
1	AA	5575	DA	C5-C6-N6	-5.75	119.10	123.70
1	AA	6431	DA	C4-C5-C6	5.75	119.87	117.00
1	AA	6534	DA	C5-C6-N6	-5.75	119.10	123.70
10	A8	11	DA	C4-C5-C6	5.75	119.87	117.00
29	AT	6	DA	C4-C5-C6	5.75	119.87	117.00
40	Ag	42	DA	C4-C5-C6	5.75	119.87	117.00
107	Bq	1	DA	C5-C6-N1	-5.75	114.83	117.70
133	CP	13	DA	C4-C5-C6	5.75	119.87	117.00
145	Cc	37	DT	O4'-C1'-N1	5.75	112.02	108.00
159	Cw	39	DC	N3-C4-N4	5.75	122.02	118.00
1	AA	219	DG	O4'-C1'-C2'	-5.74	101.31	105.90
1	AA	573	DA	O4'-C1'-N9	5.74	112.02	108.00
1	AA	658	DA	C4-C5-C6	5.74	119.87	117.00
1	AA	799	DC	N3-C4-N4	5.74	122.02	118.00
1	AA	869	DC	N3-C4-N4	5.74	122.02	118.00
1	AA	1411	DC	N3-C4-N4	5.74	122.02	118.00
1	AA	1665	DA	C4-C5-C6	5.74	119.87	117.00
1	AA	2058	DA	C5-C6-N6	-5.74	119.11	123.70
1	AA	2152	DA	C5-C6-N6	-5.74	119.11	123.70
1	AA	2906	DA	C4-C5-C6	5.74	119.87	117.00
1	AA	3455	DC	N3-C4-N4	5.74	122.02	118.00
1	AA	4001	DA	C4-C5-C6	5.74	119.87	117.00
1	AA	4369	DC	N3-C4-N4	5.74	122.02	118.00
1	AA	5162	DA	C4-C5-C6	5.74	119.87	117.00
1	AA	6265	DA	C5-C6-N1	-5.74	114.83	117.70
1	AA	6994	DA	C4-C5-C6	5.74	119.87	117.00
11	AB	37	DA	C5-C6-N6	-5.74	119.11	123.70
21	AL	4	DA	C5-C6-N6	-5.74	119.11	123.70
42	Ai	42	DA	C4-C5-C6	5.74	119.87	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
53	Ax	9	DA	C4-C5-C6	5.74	119.87	117.00
56	B0	36	DA	C5-C6-N6	-5.74	119.11	123.70
71	BG	24	DA	C5-C6-N6	-5.74	119.11	123.70
87	BW	33	DC	N3-C4-N4	5.74	122.02	118.00
100	Bj	5	DA	C4-C5-C6	5.74	119.87	117.00
101	Bk	31	DA	C4-C5-C6	5.74	119.87	117.00
116	C6	11	DA	C5-C6-N6	-5.74	119.11	123.70
127	CJ	36	DC	N3-C4-N4	5.74	122.02	118.00
143	CZ	33	DA	C5-C6-N6	-5.74	119.11	123.70
145	Cc	27	DA	C4-C5-C6	5.74	119.87	117.00
156	Ct	34	DG	P-O3'-C3'	-5.74	112.81	119.70
157	Cu	17	DA	C4-C5-C6	5.74	119.87	117.00
159	Cw	42	DA	C4-C5-C6	5.74	119.87	117.00
1	AA	589	DA	C4-C5-C6	5.74	119.87	117.00
1	AA	989	DA	C4-C5-C6	5.74	119.87	117.00
1	AA	1404	DA	C4-C5-C6	5.74	119.87	117.00
1	AA	2548	DA	C5-C6-N6	-5.74	119.11	123.70
1	AA	3030	DC	N3-C4-N4	5.74	122.02	118.00
1	AA	5541	DA	C5-C6-N6	-5.74	119.11	123.70
15	AF	8	DC	N3-C4-N4	5.74	122.02	118.00
27	AR	45	DC	N3-C4-N4	5.74	122.02	118.00
58	B2	17	DA	C5-C6-N6	-5.74	119.11	123.70
96	Bf	45	DC	N3-C4-N4	5.74	122.02	118.00
97	Bg	17	DA	C4-C5-C6	5.74	119.87	117.00
107	Bq	54	DA	C4-C5-C6	5.74	119.87	117.00
137	CT	13	DC	N3-C4-N4	5.74	122.02	118.00
139	CV	49	DA	C4-C5-C6	5.74	119.87	117.00
143	CZ	41	DA	C4-C5-C6	5.74	119.87	117.00
162	Cz	4	DA	C4-C5-C6	5.74	119.87	117.00
1	AA	217	DA	C5-C6-N6	-5.74	119.11	123.70
1	AA	280	DA	C4-C5-C6	5.74	119.87	117.00
1	AA	747	DC	N3-C4-N4	5.74	122.02	118.00
1	AA	906	DA	C5-C6-N6	-5.74	119.11	123.70
1	AA	1074	DC	N3-C4-N4	5.74	122.02	118.00
1	AA	1279	DA	C4-C5-C6	5.74	119.87	117.00
1	AA	2630	DA	C4-C5-C6	5.74	119.87	117.00
1	AA	3130	DC	N3-C4-N4	5.74	122.02	118.00
1	AA	3929	DA	C5-C6-N6	-5.74	119.11	123.70
1	AA	5495	DA	C5-C6-N6	-5.74	119.11	123.70
1	AA	5894	DG	P-O3'-C3'	5.74	126.59	119.70
1	AA	5912	DC	N3-C4-N4	5.74	122.02	118.00
1	AA	6208	DA	C4-C5-C6	5.74	119.87	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6290	DA	C5-C6-N1	-5.74	114.83	117.70
1	AA	7046	DA	C4-C5-C6	5.74	119.87	117.00
1	AA	7231	DA	C5-C6-N6	-5.74	119.11	123.70
3	A1	1	DA	C5-C6-N6	-5.74	119.11	123.70
6	A4	6	DA	C5-C6-N6	-5.74	119.11	123.70
7	A5	25	DA	C5-C6-N1	-5.74	114.83	117.70
9	A7	21	DA	C5-C6-N6	-5.74	119.11	123.70
9	A7	29	DA	C5-C6-N1	-5.74	114.83	117.70
19	AJ	22	DA	C5-C6-N6	-5.74	119.11	123.70
23	AN	2	DA	C4-C5-C6	5.74	119.87	117.00
39	Af	46	DA	C5-C6-N1	-5.74	114.83	117.70
55	Az	10	DA	C5-C6-N6	-5.74	119.11	123.70
64	B8	16	DC	N3-C4-N4	5.74	122.02	118.00
88	BX	43	DA	C4-C5-C6	5.74	119.87	117.00
99	Bi	52	DC	N3-C4-N4	5.74	122.02	118.00
114	C4	50	DA	C4-C5-C6	5.74	119.87	117.00
132	CO	31	DA	C5-C6-N6	-5.74	119.11	123.70
145	Cc	26	DC	N3-C4-C5	-5.74	119.60	121.90
152	Cp	26	DA	C4-C5-C6	5.74	119.87	117.00
161	Cy	54	DA	C4-C5-C6	5.74	119.87	117.00
1	AA	90	DC	N3-C4-N4	5.74	122.02	118.00
1	AA	471	DA	C4-C5-C6	5.74	119.87	117.00
1	AA	471	DA	C5-C6-N6	-5.74	119.11	123.70
1	AA	588	DA	C4-C5-C6	5.74	119.87	117.00
1	AA	804	DA	C5-C6-N1	-5.74	114.83	117.70
1	AA	1603	DC	O4'-C1'-C2'	-5.74	101.31	105.90
1	AA	1778	DA	C5-C6-N1	-5.74	114.83	117.70
1	AA	2138	DA	C5-C6-N6	-5.74	119.11	123.70
1	AA	3181	DA	C5-C6-N1	-5.74	114.83	117.70
1	AA	3679	DA	C4-C5-C6	5.74	119.87	117.00
1	AA	3782	DA	C4-C5-C6	5.74	119.87	117.00
1	AA	4979	DC	N3-C4-N4	5.74	122.02	118.00
1	AA	5583	DA	C5-C6-N6	-5.74	119.11	123.70
1	AA	5674	DA	C5-C6-N6	-5.74	119.11	123.70
1	AA	5739	DA	C5-C6-N6	-5.74	119.11	123.70
1	AA	6125	DT	P-O3'-C3'	5.74	126.59	119.70
1	AA	6389	DC	N3-C4-C5	-5.74	119.61	121.90
1	AA	6841	DC	N3-C4-C5	-5.74	119.61	121.90
11	AB	9	DA	C5-C6-N6	-5.74	119.11	123.70
23	AN	24	DC	N3-C4-N4	5.74	122.02	118.00
28	AS	16	DA	C4-C5-C6	5.74	119.87	117.00
33	AX	17	DA	C4-C5-C6	5.74	119.87	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
37	Ac	40	DA	C4-C5-C6	5.74	119.87	117.00
39	Af	38	DC	N3-C4-N4	5.74	122.02	118.00
54	Ay	4	DC	N3-C4-N4	5.74	122.02	118.00
54	Ay	5	DA	C4-C5-C6	5.74	119.87	117.00
55	Az	13	DA	C5-C6-N6	-5.74	119.11	123.70
63	B7	39	DA	C4-C5-C6	5.74	119.87	117.00
65	B9	1	DA	C5-C6-N1	-5.74	114.83	117.70
72	BH	14	DA	C5-C6-N1	-5.74	114.83	117.70
82	BR	63	DA	C4-C5-C6	5.74	119.87	117.00
88	BX	34	DA	C4-C5-C6	5.74	119.87	117.00
113	C3	13	DA	C4-C5-C6	5.74	119.87	117.00
118	C8	22	DA	C4-C5-C6	5.74	119.87	117.00
125	CH	42	DC	C2-N1-C1'	5.74	125.11	118.80
127	CJ	28	DC	N3-C4-N4	5.74	122.02	118.00
128	CK	12	DA	C4-C5-C6	5.74	119.87	117.00
142	CY	29	DA	C5-C6-N6	-5.74	119.11	123.70
1	AA	651	DA	C5-C6-N6	-5.74	119.11	123.70
1	AA	982	DT	O4'-C1'-N1	5.74	112.02	108.00
1	AA	1402	DA	C5-C6-N6	-5.74	119.11	123.70
1	AA	1718	DA	C4-C5-C6	5.74	119.87	117.00
1	AA	2034	DA	C4-C5-C6	5.74	119.87	117.00
1	AA	3330	DC	N3-C4-C5	-5.74	119.61	121.90
1	AA	4007	DA	C4-C5-C6	5.74	119.87	117.00
1	AA	5227	DA	C4-C5-C6	5.74	119.87	117.00
1	AA	5391	DC	N3-C4-N4	5.74	122.02	118.00
1	AA	5427	DA	P-O5'-C5'	5.74	130.08	120.90
1	AA	5993	DA	C5-C6-N6	-5.74	119.11	123.70
1	AA	6650	DA	C5-C6-N6	-5.74	119.11	123.70
1	AA	7128	DC	N3-C4-N4	5.74	122.02	118.00
36	Ab	29	DA	C5-C6-N1	-5.74	114.83	117.70
69	BE	65	DA	C4-C5-C6	5.74	119.87	117.00
107	Bq	26	DA	C4-C5-C6	5.74	119.87	117.00
115	C5	28	DA	C4-C5-C6	5.74	119.87	117.00
119	CB	21	DA	C4-C5-C6	5.74	119.87	117.00
129	CL	5	DA	C4-C5-C6	5.74	119.87	117.00
131	CN	27	DA	C4-C5-C6	5.74	119.87	117.00
1	AA	171	DA	C5-C6-N6	-5.74	119.11	123.70
1	AA	932	DA	C4-C5-C6	5.74	119.87	117.00
1	AA	940	DA	C4-C5-C6	5.74	119.87	117.00
1	AA	2908	DA	C5-C6-N1	-5.74	114.83	117.70
1	AA	3457	DA	C5-C6-N6	-5.74	119.11	123.70
1	AA	3672	DA	C5-C6-N6	-5.74	119.11	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	4745	DT	P-O3'-C3'	5.74	126.58	119.70
1	AA	4843	DA	C4-C5-C6	5.74	119.87	117.00
1	AA	4970	DC	O4'-C1'-C2'	-5.74	101.31	105.90
1	AA	6217	DA	C5-C6-N6	-5.74	119.11	123.70
1	AA	6677	DA	C5-C6-N1	-5.74	114.83	117.70
1	AA	6804	DA	C4-C5-C6	5.74	119.87	117.00
28	AS	12	DA	C4-C5-C6	5.74	119.87	117.00
55	Az	9	DA	C4-C5-C6	5.74	119.87	117.00
81	BQ	34	DA	C4-C5-C6	5.74	119.87	117.00
81	BQ	34	DA	C5-C6-N6	-5.74	119.11	123.70
114	C4	10	DA	C4-C5-C6	5.74	119.87	117.00
122	CE	32	DA	C4-C5-C6	5.74	119.87	117.00
146	Cd	19	DA	C4-C5-C6	5.74	119.87	117.00
147	Ce	29	DC	N3-C4-N4	5.74	122.02	118.00
1	AA	185	DC	N3-C4-C5	-5.73	119.61	121.90
1	AA	459	DA	C5-C6-N6	-5.73	119.11	123.70
1	AA	542	DC	N3-C4-N4	5.73	122.01	118.00
1	AA	774	DC	N3-C4-N4	5.73	122.01	118.00
1	AA	1031	DA	C4-C5-C6	5.73	119.87	117.00
1	AA	1268	DA	C5-C6-N6	-5.73	119.11	123.70
1	AA	1968	DA	C4-C5-C6	5.73	119.87	117.00
1	AA	2519	DA	C5-C6-N6	-5.73	119.11	123.70
1	AA	3574	DA	C4-C5-C6	5.73	119.87	117.00
1	AA	3781	DA	C5-C6-N6	-5.73	119.11	123.70
1	AA	4107	DG	O4'-C1'-C2'	-5.73	101.31	105.90
1	AA	6127	DA	C4-C5-C6	5.73	119.87	117.00
1	AA	6308	DA	C5-C6-N6	-5.73	119.11	123.70
1	AA	6643	DA	C4-C5-C6	5.73	119.87	117.00
1	AA	6653	DA	C5-C6-N6	-5.73	119.11	123.70
2	A0	4	DA	C5-C6-N6	-5.73	119.11	123.70
23	AN	21	DA	C5-C6-N6	-5.73	119.11	123.70
23	AN	37	DC	N3-C4-N4	5.73	122.01	118.00
66	BB	30	DA	C5-C6-N6	-5.73	119.11	123.70
117	C7	19	DC	N3-C4-N4	5.73	122.01	118.00
135	CR	2	DA	C4-C5-C6	5.73	119.87	117.00
146	Cd	15	DA	C4-C5-C6	5.73	119.87	117.00
153	Cq	32	DA	C5-C6-N6	-5.73	119.11	123.70
156	Ct	14	DA	C5-C6-N6	-5.73	119.11	123.70
1	AA	78	DA	C5-C6-N6	-5.73	119.11	123.70
1	AA	1200	DA	C5-C6-N6	-5.73	119.11	123.70
1	AA	1211	DA	C5-C6-N6	-5.73	119.11	123.70
1	AA	2301	DC	N3-C4-C5	-5.73	119.61	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2303	DA	C5-C6-N6	-5.73	119.11	123.70
1	AA	2392	DA	C4-C5-C6	5.73	119.87	117.00
1	AA	3229	DA	C4-C5-C6	5.73	119.87	117.00
1	AA	3517	DC	N3-C4-N4	5.73	122.01	118.00
1	AA	4099	DA	C5-C6-N6	-5.73	119.11	123.70
1	AA	5855	DA	C4-C5-C6	5.73	119.87	117.00
1	AA	6132	DA	C5-C6-N6	-5.73	119.11	123.70
1	AA	6266	DA	C4-C5-C6	5.73	119.87	117.00
1	AA	6315	DA	C5-C6-N6	-5.73	119.11	123.70
1	AA	6491	DT	O4'-C4'-C3'	-5.73	102.21	104.50
1	AA	6562	DA	C4-C5-C6	5.73	119.87	117.00
1	AA	6680	DA	C5-C6-N6	-5.73	119.11	123.70
31	AV	37	DA	C4-C5-C6	5.73	119.87	117.00
47	An	28	DC	N3-C4-N4	5.73	122.01	118.00
52	Aw	11	DC	N3-C4-N4	5.73	122.01	118.00
82	BR	34	DA	C4-C5-C6	5.73	119.87	117.00
93	Bc	2	DA	C4-C5-C6	5.73	119.87	117.00
104	Bn	25	DA	C4-C5-C6	5.73	119.87	117.00
116	C6	5	DA	C4-C5-C6	5.73	119.87	117.00
124	CG	27	DG	O4'-C1'-C2'	-5.73	101.31	105.90
125	CH	40	DA	C4-C5-C6	5.73	119.87	117.00
127	CJ	6	DA	C5-C6-N6	-5.73	119.11	123.70
129	CL	2	DA	C4-C5-C6	5.73	119.87	117.00
130	CM	29	DA	C5-C6-N6	-5.73	119.11	123.70
134	CQ	34	DA	C5-C6-N6	-5.73	119.11	123.70
1	AA	235	DC	P-O3'-C3'	5.73	126.58	119.70
1	AA	1361	DA	C4-C5-C6	5.73	119.86	117.00
1	AA	1802	DC	N3-C4-N4	5.73	122.01	118.00
1	AA	3437	DT	P-O5'-C5'	-5.73	111.73	120.90
1	AA	3943	DC	N3-C4-C5	-5.73	119.61	121.90
1	AA	4198	DC	N3-C4-N4	5.73	122.01	118.00
1	AA	4243	DA	C5-C6-N6	-5.73	119.12	123.70
1	AA	4643	DA	C4-C5-C6	5.73	119.86	117.00
1	AA	5392	DA	C4-C5-C6	5.73	119.87	117.00
1	AA	5524	DA	C4-C5-C6	5.73	119.86	117.00
1	AA	6025	DA	C5-C6-N6	-5.73	119.12	123.70
1	AA	7121	DA	C4-C5-C6	5.73	119.87	117.00
3	A1	35	DT	O4'-C1'-C2'	-5.73	101.32	105.90
20	AK	45	DC	N3-C4-C5	-5.73	119.61	121.90
27	AR	57	DA	C5-C6-N6	-5.73	119.11	123.70
29	AT	20	DC	N3-C4-N4	5.73	122.01	118.00
31	AV	34	DA	C5-C6-N6	-5.73	119.11	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	Ad	12	DA	C4-C5-C6	5.73	119.86	117.00
45	Al	38	DA	C5-C6-N6	-5.73	119.11	123.70
50	Au	33	DA	C4-C5-C6	5.73	119.87	117.00
55	Az	1	DA	C4-C5-C6	5.73	119.86	117.00
60	B4	43	DC	N3-C4-N4	5.73	122.01	118.00
69	BE	40	DA	C5-C6-N6	-5.73	119.12	123.70
74	BJ	8	DC	N3-C4-N4	5.73	122.01	118.00
80	BP	6	DA	C4-C5-C6	5.73	119.86	117.00
81	BQ	8	DC	N3-C4-N4	5.73	122.01	118.00
88	BX	16	DA	C5-C6-N6	-5.73	119.12	123.70
92	Bb	60	DC	N3-C4-N4	5.73	122.01	118.00
101	Bk	1	DA	C5-C6-N6	-5.73	119.12	123.70
103	Bm	24	DA	C4-C5-C6	5.73	119.87	117.00
125	CH	21	DA	C4-C5-C6	5.73	119.87	117.00
142	CY	7	DA	C5-C6-N1	-5.73	114.83	117.70
147	Ce	8	DC	N3-C4-N4	5.73	122.01	118.00
162	Cz	31	DA	C5-C6-N6	-5.73	119.11	123.70
1	AA	801	DC	N3-C4-N4	5.73	122.01	118.00
1	AA	1021	DA	C4-C5-C6	5.73	119.86	117.00
1	AA	1928	DA	C4-C5-C6	5.73	119.86	117.00
1	AA	3161	DA	C4-C5-C6	5.73	119.86	117.00
1	AA	4026	DG	O4'-C1'-C2'	-5.73	101.32	105.90
1	AA	5223	DC	N3-C4-C5	-5.73	119.61	121.90
1	AA	6601	DA	C5-C6-N6	-5.73	119.12	123.70
1	AA	6877	DA	C4-C5-C6	5.73	119.86	117.00
41	Ah	13	DA	C4-C5-C6	5.73	119.86	117.00
53	Ax	4	DA	C4-C5-C6	5.73	119.86	117.00
56	B0	26	DA	O4'-C1'-N9	5.73	112.01	108.00
68	BD	8	DA	C5-C6-N6	-5.73	119.12	123.70
69	BE	55	DA	C4-C5-C6	5.73	119.86	117.00
72	BH	27	DA	C4-C5-C6	5.73	119.86	117.00
92	Bb	23	DA	C5-C6-N6	-5.73	119.12	123.70
92	Bb	37	DC	N3-C4-N4	5.73	122.01	118.00
104	Bn	51	DA	C5-C6-N6	-5.73	119.12	123.70
114	C4	5	DA	P-O3'-C3'	5.73	126.57	119.70
1	AA	411	DA	C5-C6-N6	-5.73	119.12	123.70
1	AA	433	DA	C5-C6-N6	-5.73	119.12	123.70
1	AA	896	DA	C4-C5-C6	5.73	119.86	117.00
1	AA	1511	DA	C5-C6-N6	-5.73	119.12	123.70
1	AA	1861	DA	C4-C5-C6	5.73	119.86	117.00
1	AA	2050	DC	N3-C4-N4	5.73	122.01	118.00
1	AA	2620	DA	C4-C5-C6	5.73	119.86	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2657	DA	C5-C6-N6	-5.73	119.12	123.70
1	AA	2703	DA	C4-C5-C6	5.73	119.86	117.00
1	AA	3376	DC	N3-C4-N4	5.73	122.01	118.00
1	AA	4325	DA	C5-C6-N6	-5.73	119.12	123.70
1	AA	4993	DA	C5-C6-N6	-5.73	119.12	123.70
1	AA	5628	DA	C4-C5-C6	5.73	119.86	117.00
1	AA	6613	DA	C4-C5-C6	5.73	119.86	117.00
1	AA	7025	DA	C4-C5-C6	5.73	119.86	117.00
19	AJ	35	DA	C5-C6-N6	-5.73	119.12	123.70
23	AN	19	DA	C5-C6-N6	-5.73	119.12	123.70
28	AS	44	DA	C5-C6-N6	-5.73	119.12	123.70
29	AT	18	DA	C5-C6-N6	-5.73	119.12	123.70
38	Ad	8	DA	C5-C6-N6	-5.73	119.12	123.70
39	Af	9	DC	N3-C4-N4	5.73	122.01	118.00
40	Ag	25	DA	C5-C6-N1	-5.73	114.84	117.70
49	As	2	DA	C4-C5-C6	5.73	119.86	117.00
68	BD	32	DA	C5-C6-N1	-5.73	114.84	117.70
69	BE	61	DA	C4-C5-C6	5.73	119.86	117.00
84	BT	9	DA	C5-C6-N6	-5.73	119.12	123.70
88	BX	17	DA	C5-C6-N6	-5.73	119.12	123.70
109	Bs	39	DA	C4-C5-C6	5.73	119.86	117.00
111	C1	11	DA	P-O5'-C5'	-5.73	111.74	120.90
111	C1	30	DA	C4-C5-C6	5.73	119.86	117.00
114	C4	57	DA	C4-C5-C6	5.73	119.86	117.00
147	Ce	40	DA	C5-C6-N6	-5.73	119.12	123.70
156	Ct	15	DA	C4-C5-C6	5.73	119.86	117.00
1	AA	9	DG	O4'-C4'-C3'	-5.73	102.21	104.50
1	AA	347	DA	C4-C5-C6	5.73	119.86	117.00
1	AA	1010	DA	C4-C5-C6	5.73	119.86	117.00
1	AA	2285	DA	C4-C5-C6	5.73	119.86	117.00
1	AA	3267	DA	C4-C5-C6	5.73	119.86	117.00
1	AA	4157	DA	C4-C5-C6	5.73	119.86	117.00
1	AA	4164	DA	C5-C6-N1	-5.73	114.84	117.70
1	AA	6427	DA	C4-C5-C6	5.73	119.86	117.00
21	AL	1	DA	C4-C5-C6	5.73	119.86	117.00
38	Ad	32	DA	C5-C6-N6	-5.73	119.12	123.70
42	Ai	6	DA	C4-C5-C6	5.73	119.86	117.00
46	Am	29	DC	N3-C4-N4	5.73	122.01	118.00
152	Cp	42	DA	C4-C5-C6	5.73	119.86	117.00
1	AA	1301	DC	N3-C4-N4	5.72	122.01	118.00
1	AA	1383	DA	C4-C5-C6	5.72	119.86	117.00
1	AA	1548	DC	N3-C4-N4	5.72	122.01	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1904	DA	C5-C6-N6	-5.72	119.12	123.70
1	AA	1926	DC	N3-C4-N4	5.72	122.01	118.00
1	AA	3435	DA	C4-C5-C6	5.72	119.86	117.00
1	AA	3916	DA	C5-C6-N6	-5.72	119.12	123.70
1	AA	4175	DA	C4-C5-C6	5.72	119.86	117.00
1	AA	5264	DA	C5-C6-N1	-5.72	114.84	117.70
1	AA	5543	DA	C5-C6-N1	-5.72	114.84	117.70
1	AA	5738	DA	C5-C6-N6	-5.72	119.12	123.70
1	AA	5852	DA	C4-C5-C6	5.72	119.86	117.00
1	AA	6565	DC	N3-C4-N4	5.72	122.01	118.00
1	AA	6669	DT	P-O3'-C3'	5.72	126.57	119.70
1	AA	6719	DC	N3-C4-N4	5.72	122.01	118.00
1	AA	6940	DA	C4-C5-C6	5.72	119.86	117.00
2	A0	11	DA	C5-C6-N6	-5.72	119.12	123.70
9	A7	29	DA	C4-C5-C6	5.72	119.86	117.00
17	AH	31	DA	C4-C5-C6	5.72	119.86	117.00
19	AJ	47	DA	C4-C5-C6	5.72	119.86	117.00
27	AR	51	DA	C5-C6-N6	-5.72	119.12	123.70
28	AS	58	DA	C4-C5-C6	5.72	119.86	117.00
47	An	36	DA	C4-C5-C6	5.72	119.86	117.00
71	BG	37	DA	C5-C6-N6	-5.72	119.12	123.70
81	BQ	28	DA	C4-C5-C6	5.72	119.86	117.00
113	C3	36	DA	C5-C6-N6	-5.72	119.12	123.70
114	C4	66	DA	C4-C5-C6	5.72	119.86	117.00
114	C4	66	DA	C5-C6-N6	-5.72	119.12	123.70
120	CC	38	DA	C5-C6-N6	-5.72	119.12	123.70
128	CK	10	DA	C4-C5-C6	5.72	119.86	117.00
144	Cb	19	DA	C4-C5-C6	5.72	119.86	117.00
148	Cf	44	DA	C5-C6-N6	-5.72	119.12	123.70
1	AA	47	DA	C4-C5-C6	5.72	119.86	117.00
1	AA	208	DA	C4-C5-C6	5.72	119.86	117.00
1	AA	855	DC	N3-C4-C5	-5.72	119.61	121.90
1	AA	1137	DA	C5-C6-N6	-5.72	119.12	123.70
1	AA	3194	DA	C5-C6-N6	-5.72	119.12	123.70
1	AA	3447	DA	C5-C6-N6	-5.72	119.12	123.70
1	AA	4005	DA	C4-C5-C6	5.72	119.86	117.00
1	AA	4248	DT	O4'-C1'-N1	5.72	112.01	108.00
1	AA	4321	DA	C5-C6-N6	-5.72	119.12	123.70
1	AA	4508	DA	C5-C6-N6	-5.72	119.12	123.70
1	AA	4666	DC	O4'-C1'-C2'	-5.72	101.32	105.90
1	AA	5498	DA	C5-C6-N6	-5.72	119.12	123.70
1	AA	5890	DA	C4-C5-C6	5.72	119.86	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6160	DA	C5-C6-N6	-5.72	119.12	123.70
1	AA	6900	DA	C5-C6-N6	-5.72	119.12	123.70
2	A0	23	DA	C5-C6-N6	-5.72	119.12	123.70
7	A5	18	DA	C4-C5-C6	5.72	119.86	117.00
19	AJ	10	DA	C4-C5-C6	5.72	119.86	117.00
26	AQ	8	DA	C4-C5-C6	5.72	119.86	117.00
29	AT	48	DA	C4-C5-C6	5.72	119.86	117.00
34	AY	11	DA	C5-C6-N6	-5.72	119.12	123.70
34	AY	31	DC	N3-C4-N4	5.72	122.00	118.00
41	Ah	42	DA	C4-C5-C6	5.72	119.86	117.00
52	Aw	16	DA	C5-C6-N6	-5.72	119.12	123.70
101	Bk	42	DA	C4-C5-C6	5.72	119.86	117.00
105	Bo	61	DA	C5-C6-N6	-5.72	119.12	123.70
106	Bp	43	DA	C5-C6-N6	-5.72	119.12	123.70
131	CN	32	DA	C5-C6-N6	-5.72	119.12	123.70
145	Cc	61	DA	C5-C6-N6	-5.72	119.12	123.70
154	Cr	11	DA	C4-C5-C6	5.72	119.86	117.00
160	Cx	37	DA	C4-C5-C6	5.72	119.86	117.00
1	AA	3026	DA	C5-C6-N6	-5.72	119.12	123.70
1	AA	3627	DC	N3-C4-N4	5.72	122.00	118.00
1	AA	4162	DA	C4-C5-C6	5.72	119.86	117.00
1	AA	4849	DG	O4'-C1'-C2'	-5.72	101.32	105.90
1	AA	5008	DA	C4-C5-C6	5.72	119.86	117.00
1	AA	6524	DA	C4-C5-C6	5.72	119.86	117.00
1	AA	6535	DA	C4-C5-C6	5.72	119.86	117.00
1	AA	6540	DA	C5-C6-N6	-5.72	119.12	123.70
1	AA	7085	DC	N3-C4-N4	5.72	122.00	118.00
52	Aw	23	DC	N3-C4-N4	5.72	122.00	118.00
64	B8	13	DA	C5-C6-N6	-5.72	119.12	123.70
113	C3	14	DA	C4-C5-C6	5.72	119.86	117.00
156	Ct	28	DA	C5-C6-N6	-5.72	119.12	123.70
1	AA	852	DA	C5-C6-N6	-5.72	119.12	123.70
1	AA	1242	DA	C5-C6-N6	-5.72	119.12	123.70
1	AA	1516	DA	C5-C6-N6	-5.72	119.12	123.70
1	AA	1962	DA	C4-C5-C6	5.72	119.86	117.00
1	AA	3301	DA	C5-C6-N1	-5.72	114.84	117.70
1	AA	3729	DA	C4-C5-C6	5.72	119.86	117.00
1	AA	3835	DA	C5-C6-N6	-5.72	119.12	123.70
1	AA	4006	DA	C4-C5-C6	5.72	119.86	117.00
1	AA	4832	DA	C5-C6-N6	-5.72	119.12	123.70
1	AA	5014	DA	C4-C5-C6	5.72	119.86	117.00
1	AA	5580	DA	C4-C5-C6	5.72	119.86	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5966	DC	N3-C4-N4	5.72	122.00	118.00
1	AA	5996	DC	N3-C4-N4	5.72	122.00	118.00
3	A1	3	DA	C5-C6-N6	-5.72	119.12	123.70
14	AE	29	DA	C5-C6-N1	-5.72	114.84	117.70
23	AN	11	DA	C4-C5-C6	5.72	119.86	117.00
29	AT	22	DA	C4-C5-C6	5.72	119.86	117.00
43	Aj	58	DA	C4-C5-C6	5.72	119.86	117.00
44	Ak	46	DA	C4-C5-C6	5.72	119.86	117.00
50	Au	30	DC	N3-C4-N4	5.72	122.00	118.00
51	Av	33	DA	C5-C6-N6	-5.72	119.12	123.70
57	B1	58	DA	C4-C5-C6	5.72	119.86	117.00
59	B3	47	DC	P-O3'-C3'	5.72	126.56	119.70
101	Bk	21	DA	C5-C6-N6	-5.72	119.12	123.70
117	C7	24	DA	C5-C6-N6	-5.72	119.12	123.70
118	C8	33	DA	C4-C5-C6	5.72	119.86	117.00
137	CT	10	DT	O4'-C1'-N1	5.72	112.00	108.00
149	Cg	43	DA	C4-C5-C6	5.72	119.86	117.00
1	AA	4805	DA	C5-C6-N6	-5.72	119.13	123.70
1	AA	6174	DA	C4-C5-C6	5.72	119.86	117.00
3	A1	31	DA	C5-C6-N6	-5.72	119.13	123.70
18	AI	4	DA	C4-C5-C6	5.72	119.86	117.00
32	AW	44	DA	C5-C6-N6	-5.72	119.13	123.70
51	Av	19	DA	C4-C5-C6	5.72	119.86	117.00
64	B8	6	DA	O4'-C1'-C2'	-5.72	101.33	105.90
71	BG	3	DA	C5-C6-N6	-5.72	119.13	123.70
90	BZ	63	DA	C4-C5-C6	5.72	119.86	117.00
103	Bm	21	DA	C4-C5-C6	5.72	119.86	117.00
113	C3	10	DA	C5-C6-N6	-5.72	119.13	123.70
136	CS	9	DA	C4-C5-C6	5.72	119.86	117.00
143	CZ	26	DC	N3-C4-C5	-5.72	119.61	121.90
155	Cs	20	DA	C4-C5-C6	5.72	119.86	117.00
1	AA	2851	DC	N3-C4-N4	5.72	122.00	118.00
1	AA	3559	DA	C4-C5-C6	5.72	119.86	117.00
1	AA	3640	DA	P-O3'-C3'	5.72	126.56	119.70
1	AA	5089	DA	C4-C5-C6	5.72	119.86	117.00
1	AA	5500	DC	N3-C4-N4	5.72	122.00	118.00
1	AA	5902	DA	C5-C6-N6	-5.72	119.13	123.70
1	AA	6316	DA	C4-C5-C6	5.72	119.86	117.00
4	A2	39	DA	C5-C6-N1	-5.72	114.84	117.70
17	AH	33	DA	C4-C5-C6	5.72	119.86	117.00
20	AK	8	DA	C4-C5-C6	5.72	119.86	117.00
22	AM	30	DA	C5-C6-N6	-5.72	119.13	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	AP	25	DC	N3-C4-N4	5.72	122.00	118.00
26	AQ	14	DT	O4'-C4'-C3'	-5.72	102.21	104.50
30	AU	48	DA	C5-C6-N6	-5.72	119.13	123.70
37	Ac	13	DA	C5-C6-N6	-5.72	119.13	123.70
75	BK	35	DA	C5-C6-N6	-5.72	119.13	123.70
85	BU	49	DA	C5-C6-N6	-5.72	119.13	123.70
116	C6	13	DA	C5-C6-N6	-5.72	119.13	123.70
122	CE	4	DA	C5-C6-N1	-5.72	114.84	117.70
130	CM	14	DA	C5-C6-N6	-5.72	119.13	123.70
136	CS	43	DA	C4-C5-C6	5.72	119.86	117.00
139	CV	43	DC	N3-C4-N4	5.72	122.00	118.00
143	CZ	41	DA	C5-C6-N6	-5.72	119.13	123.70
1	AA	67	DA	C4-C5-C6	5.71	119.86	117.00
1	AA	906	DA	C4-C5-C6	5.71	119.86	117.00
1	AA	1064	DA	C4-C5-C6	5.71	119.86	117.00
1	AA	1363	DA	C4-C5-C6	5.71	119.86	117.00
1	AA	1663	DA	C4-C5-C6	5.71	119.86	117.00
1	AA	1707	DA	C4-C5-C6	5.71	119.86	117.00
1	AA	4734	DA	C5-C6-N6	-5.71	119.13	123.70
1	AA	4911	DC	O4'-C1'-N1	5.71	112.00	108.00
1	AA	5052	DC	N3-C4-C5	-5.71	119.61	121.90
1	AA	5684	DA	C4-C5-C6	5.71	119.86	117.00
1	AA	7162	DC	N3-C4-C5	-5.71	119.61	121.90
42	Ai	3	DA	O4'-C1'-N9	5.71	112.00	108.00
44	Ak	34	DC	N3-C4-N4	5.71	122.00	118.00
56	B0	26	DA	C5-C6-N6	-5.71	119.13	123.70
61	B5	20	DA	C4-C5-C6	5.71	119.86	117.00
62	B6	45	DA	C5-C6-N6	-5.71	119.13	123.70
64	B8	12	DA	C5-C6-N6	-5.71	119.13	123.70
81	BQ	7	DA	C5-C6-N6	-5.71	119.13	123.70
88	BX	11	DA	C5-C6-N6	-5.71	119.13	123.70
92	Bb	23	DA	C4-C5-C6	5.71	119.86	117.00
99	Bi	54	DA	C5-C6-N6	-5.71	119.13	123.70
103	Bm	12	DC	N3-C4-C5	-5.71	119.61	121.90
105	Bo	1	DA	C5-C6-N6	-5.71	119.13	123.70
107	Bq	56	DC	N3-C4-N4	5.71	122.00	118.00
114	C4	6	DA	C4-C5-C6	5.71	119.86	117.00
115	C5	14	DA	C4-C5-C6	5.71	119.86	117.00
129	CL	44	DA	C4-C5-C6	5.71	119.86	117.00
137	CT	25	DA	C5-C6-N1	-5.71	114.84	117.70
141	CX	43	DC	N3-C4-N4	5.71	122.00	118.00
142	CY	6	DC	N3-C4-N4	5.71	122.00	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
156	Ct	13	DA	C4-C5-C6	5.71	119.86	117.00
157	Cu	11	DA	C4-C5-C6	5.71	119.86	117.00
1	AA	1342	DA	C4-C5-C6	5.71	119.86	117.00
1	AA	1692	DT	P-O3'-C3'	5.71	126.56	119.70
1	AA	3220	DA	C4-C5-C6	5.71	119.86	117.00
1	AA	4903	DC	N3-C4-C5	-5.71	119.61	121.90
1	AA	5163	DA	C5-C6-N6	-5.71	119.13	123.70
1	AA	5628	DA	C5-C6-N6	-5.71	119.13	123.70
1	AA	5838	DA	C4-C5-C6	5.71	119.86	117.00
4	A2	14	DA	C4-C5-C6	5.71	119.86	117.00
6	A4	23	DA	C5-C6-N6	-5.71	119.13	123.70
16	AG	9	DA	C5-C6-N6	-5.71	119.13	123.70
47	An	37	DA	C5-C6-N6	-5.71	119.13	123.70
50	Au	23	DA	C4-C5-C6	5.71	119.86	117.00
81	BQ	40	DA	C4-C5-C6	5.71	119.86	117.00
107	Bq	4	DC	O4'-C1'-N1	5.71	112.00	108.00
113	C3	10	DA	C4-C5-C6	5.71	119.86	117.00
159	Cw	27	DA	C5-C6-N1	-5.71	114.84	117.70
1	AA	355	DA	C4-C5-C6	5.71	119.86	117.00
1	AA	825	DA	C5-C6-N6	-5.71	119.13	123.70
1	AA	854	DC	N3-C4-N4	5.71	122.00	118.00
1	AA	1736	DA	C5-C6-N6	-5.71	119.13	123.70
1	AA	2515	DA	C4-C5-C6	5.71	119.86	117.00
1	AA	3053	DA	C5-C6-N1	-5.71	114.84	117.70
1	AA	3113	DA	O4'-C1'-C2'	-5.71	101.33	105.90
1	AA	3410	DA	C4-C5-C6	5.71	119.86	117.00
1	AA	3445	DA	C5-C6-N6	-5.71	119.13	123.70
1	AA	4001	DA	C5-C6-N1	-5.71	114.84	117.70
1	AA	4009	DT	P-O3'-C3'	5.71	126.56	119.70
1	AA	4181	DA	C5-C6-N6	-5.71	119.13	123.70
1	AA	4899	DA	C4-C5-C6	5.71	119.86	117.00
1	AA	5296	DC	N3-C4-N4	5.71	122.00	118.00
1	AA	6523	DA	C4-C5-C6	5.71	119.86	117.00
1	AA	6878	DA	P-O3'-C3'	5.71	126.55	119.70
6	A4	47	DA	C4-C5-C6	5.71	119.86	117.00
7	A5	12	DA	C5-C6-N6	-5.71	119.13	123.70
10	A8	22	DA	C5-C6-N1	-5.71	114.84	117.70
25	AP	23	DA	C5-C6-N6	-5.71	119.13	123.70
28	AS	62	DC	N3-C4-C5	-5.71	119.62	121.90
38	Ad	36	DA	C4-C5-C6	5.71	119.86	117.00
68	BD	20	DA	C4-C5-C6	5.71	119.86	117.00
72	BH	15	DT	O4'-C1'-C2'	-5.71	101.33	105.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
74	BJ	53	DA	C4-C5-C6	5.71	119.86	117.00
75	BK	38	DC	N3-C4-N4	5.71	122.00	118.00
93	Bc	2	DA	C5-C6-N6	-5.71	119.13	123.70
97	Bg	40	DA	C5-C6-N6	-5.71	119.13	123.70
101	Bk	2	DA	C4-C5-C6	5.71	119.86	117.00
116	C6	10	DA	C4'-C3'-C2'	-5.71	97.96	103.10
1	AA	2065	DA	C5-C6-N6	-5.71	119.13	123.70
1	AA	2099	DA	C4-C5-C6	5.71	119.86	117.00
1	AA	2428	DA	C4-C5-C6	5.71	119.86	117.00
1	AA	2895	DA	C4-C5-C6	5.71	119.86	117.00
1	AA	4270	DA	C4-C5-C6	5.71	119.86	117.00
1	AA	6374	DA	C5-C6-N6	-5.71	119.13	123.70
1	AA	6533	DC	O4'-C1'-C2'	-5.71	101.33	105.90
1	AA	7108	DT	O4'-C1'-C2'	-5.71	101.33	105.90
8	A6	22	DC	O4'-C1'-N1	5.71	112.00	108.00
39	Af	3	DC	N3-C4-C5	-5.71	119.62	121.90
109	Bs	41	DA	C5-C6-N6	-5.71	119.13	123.70
117	C7	2	DA	C4-C5-C6	5.71	119.86	117.00
117	C7	28	DA	C4-C5-C6	5.71	119.86	117.00
117	C7	52	DA	C4-C5-C6	5.71	119.86	117.00
132	CO	9	DA	C4-C5-C6	5.71	119.86	117.00
143	CZ	38	DA	C4-C5-C6	5.71	119.86	117.00
157	Cu	4	DA	C4-C5-C6	5.71	119.86	117.00
1	AA	334	DT	P-O3'-C3'	5.71	126.55	119.70
1	AA	348	DA	C5-C6-N6	-5.71	119.13	123.70
1	AA	913	DC	N3-C4-N4	5.71	122.00	118.00
1	AA	1210	DA	C4-C5-C6	5.71	119.85	117.00
1	AA	1786	DC	N3-C4-N4	5.71	122.00	118.00
1	AA	1847	DA	C5-C6-N6	-5.71	119.13	123.70
1	AA	2356	DC	N3-C4-N4	5.71	122.00	118.00
1	AA	2493	DA	C5-C6-N6	-5.71	119.13	123.70
1	AA	2820	DA	C5-C6-N6	-5.71	119.13	123.70
1	AA	2858	DA	C4-C5-C6	5.71	119.85	117.00
1	AA	3704	DA	C5-C6-N6	-5.71	119.13	123.70
1	AA	3865	DA	C4-C5-C6	5.71	119.86	117.00
1	AA	4144	DA	C5-C6-N6	-5.71	119.13	123.70
1	AA	5043	DC	N3-C4-N4	5.71	122.00	118.00
1	AA	5293	DA	C5-C6-N6	-5.71	119.13	123.70
1	AA	5728	DA	C4-C5-C6	5.71	119.85	117.00
1	AA	5918	DA	C5-C6-N6	-5.71	119.13	123.70
20	AK	53	DA	C4-C5-C6	5.71	119.86	117.00
28	AS	59	DA	C5-C6-N1	-5.71	114.84	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	AU	12	DA	C5-C6-N6	-5.71	119.13	123.70
36	Ab	3	DC	N3-C4-C5	-5.71	119.62	121.90
44	Ak	32	DA	C4-C5-C6	5.71	119.86	117.00
52	Aw	31	DA	C4-C5-C6	5.71	119.86	117.00
59	B3	37	DA	C4-C5-C6	5.71	119.85	117.00
69	BE	13	DA	C5-C6-N6	-5.71	119.13	123.70
75	BK	36	DA	C4-C5-C6	5.71	119.86	117.00
82	BR	39	DA	C5-C6-N6	-5.71	119.13	123.70
103	Bm	42	DA	C5-C6-N6	-5.71	119.13	123.70
105	Bo	67	DA	C5-C6-N1	-5.71	114.84	117.70
144	Cb	23	DA	C4-C5-C6	5.71	119.85	117.00
1	AA	658	DA	C5-C6-N6	-5.71	119.14	123.70
1	AA	1015	DA	C4-C5-C6	5.71	119.85	117.00
1	AA	1147	DA	C5-C6-N6	-5.71	119.14	123.70
1	AA	1403	DA	C4-C5-C6	5.71	119.85	117.00
1	AA	1607	DA	C5-C6-N6	-5.71	119.14	123.70
1	AA	2948	DA	C5-C6-N6	-5.71	119.13	123.70
1	AA	3148	DC	N3-C4-N4	5.71	122.00	118.00
1	AA	3633	DA	C5-C6-N6	-5.71	119.14	123.70
1	AA	4122	DA	C4-C5-C6	5.71	119.85	117.00
1	AA	5263	DA	C5-C6-N6	-5.71	119.13	123.70
1	AA	6001	DA	C4-C5-C6	5.71	119.85	117.00
1	AA	6192	DA	C4-C5-C6	5.71	119.85	117.00
1	AA	6740	DA	C5-C6-N6	-5.71	119.13	123.70
1	AA	6874	DA	C4-C5-C6	5.71	119.85	117.00
8	A6	15	DA	C5-C6-N1	-5.71	114.85	117.70
17	AH	16	DA	C4-C5-C6	5.71	119.85	117.00
28	AS	41	DA	C4-C5-C6	5.71	119.85	117.00
35	AZ	26	DA	C4-C5-C6	5.71	119.85	117.00
37	Ac	34	DA	P-O5'-C5'	-5.71	111.77	120.90
39	Af	19	DA	C5-C6-N6	-5.71	119.14	123.70
44	Ak	11	DA	C5-C6-N6	-5.71	119.13	123.70
59	B3	28	DA	C5-C6-N6	-5.71	119.14	123.70
81	BQ	46	DA	C5-C6-N6	-5.71	119.13	123.70
91	Ba	1	DA	C5-C6-N6	-5.71	119.14	123.70
92	Bb	64	DA	C4-C5-C6	5.71	119.85	117.00
101	Bk	25	DA	C4-C5-C6	5.71	119.85	117.00
109	Bs	12	DC	N3-C4-N4	5.71	121.99	118.00
112	C2	45	DA	O4'-C1'-C2'	-5.71	101.33	105.90
123	CF	8	DT	P-O5'-C5'	-5.71	111.77	120.90
123	CF	20	DA	C4-C5-C6	5.71	119.85	117.00
142	CY	23	DA	C4-C5-C6	5.71	119.85	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
153	Cq	14	DA	C5-C6-N6	-5.71	119.13	123.70
157	Cu	24	DA	C4-C5-C6	5.71	119.85	117.00
1	AA	274	DA	C4-C5-C6	5.71	119.85	117.00
1	AA	1259	DA	C4-C5-C6	5.71	119.85	117.00
1	AA	1908	DA	C4-C5-C6	5.71	119.85	117.00
1	AA	3939	DA	C5-C6-N1	-5.71	114.85	117.70
21	AL	43	DA	C4-C5-C6	5.71	119.85	117.00
30	AU	46	DC	N3-C4-N4	5.71	121.99	118.00
35	AZ	28	DC	N3-C4-N4	5.71	121.99	118.00
82	BR	34	DA	C5-C6-N1	-5.71	114.85	117.70
142	CY	42	DA	C5-C6-N6	-5.71	119.14	123.70
144	Cb	23	DA	C5-C6-N1	-5.71	114.85	117.70
158	Cv	20	DA	C5-C6-N6	-5.71	119.14	123.70
1	AA	46	DA	C4-C5-C6	5.70	119.85	117.00
1	AA	273	DA	C5-C6-N6	-5.70	119.14	123.70
1	AA	1016	DA	C4-C5-C6	5.70	119.85	117.00
1	AA	1184	DA	C5-C6-N6	-5.70	119.14	123.70
1	AA	3880	DA	C5-C6-N6	-5.70	119.14	123.70
1	AA	4092	DA	C5-C6-N6	-5.70	119.14	123.70
1	AA	4344	DA	C5-C6-N1	-5.70	114.85	117.70
1	AA	4881	DA	O4'-C1'-C2'	-5.70	101.34	105.90
1	AA	5185	DC	N3-C4-N4	5.70	121.99	118.00
1	AA	5247	DA	C5-C6-N6	-5.70	119.14	123.70
1	AA	6139	DA	C4-C5-C6	5.70	119.85	117.00
1	AA	6278	DA	C4-C5-C6	5.70	119.85	117.00
1	AA	7115	DC	N3-C4-N4	5.70	121.99	118.00
1	AA	7230	DC	N3-C4-N4	5.70	121.99	118.00
13	AD	33	DA	C4-C5-C6	5.70	119.85	117.00
16	AG	25	DC	N3-C4-N4	5.70	121.99	118.00
26	AQ	22	DA	C5-C6-N6	-5.70	119.14	123.70
29	AT	43	DA	O4'-C1'-N9	5.70	111.99	108.00
30	AU	45	DA	C5-C6-N6	-5.70	119.14	123.70
31	AV	8	DC	N3-C4-C5	-5.70	119.62	121.90
42	Ai	45	DA	C5-C6-N6	-5.70	119.14	123.70
50	Au	48	DC	N3-C4-N4	5.70	121.99	118.00
51	Av	9	DA	C5-C6-N6	-5.70	119.14	123.70
61	B5	2	DA	C4-C5-C6	5.70	119.85	117.00
62	B6	4	DA	C4-C5-C6	5.70	119.85	117.00
66	BB	31	DC	N3-C4-N4	5.70	121.99	118.00
67	BC	14	DA	C5-C6-N6	-5.70	119.14	123.70
67	BC	38	DA	C5-C6-N6	-5.70	119.14	123.70
80	BP	7	DA	C4-C5-C6	5.70	119.85	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
112	C2	45	DA	C5-C6-N6	-5.70	119.14	123.70
115	C5	46	DA	C4-C5-C6	5.70	119.85	117.00
135	CR	34	DC	N3-C4-N4	5.70	121.99	118.00
137	CT	30	DA	C5-C6-N6	-5.70	119.14	123.70
144	Cb	25	DC	N3-C4-N4	5.70	121.99	118.00
149	Cg	26	DA	C5-C6-N6	-5.70	119.14	123.70
161	Cy	50	DA	C4-C5-C6	5.70	119.85	117.00
1	AA	69	DT	P-O3'-C3'	5.70	126.54	119.70
1	AA	894	DC	N3-C4-N4	5.70	121.99	118.00
1	AA	1992	DA	C5-C6-N1	-5.70	114.85	117.70
1	AA	3988	DA	C5-C6-N6	-5.70	119.14	123.70
1	AA	4187	DC	O4'-C1'-C2'	-5.70	101.34	105.90
1	AA	6316	DA	C5-C6-N6	-5.70	119.14	123.70
1	AA	6937	DT	O4'-C1'-C2'	-5.70	101.34	105.90
30	AU	18	DA	C5-C6-N6	-5.70	119.14	123.70
32	AW	45	DC	N3-C4-N4	5.70	121.99	118.00
33	AX	28	DC	N3-C4-N4	5.70	121.99	118.00
46	Am	21	DA	C4-C5-C6	5.70	119.85	117.00
57	B1	57	DA	C4-C5-C6	5.70	119.85	117.00
75	BK	42	DA	C5-C6-N6	-5.70	119.14	123.70
79	BO	23	DA	C4-C5-C6	5.70	119.85	117.00
87	BW	13	DT	C1'-O4'-C4'	-5.70	104.40	110.10
90	BZ	42	DA	C4-C5-C6	5.70	119.85	117.00
99	Bi	54	DA	C4-C5-C6	5.70	119.85	117.00
112	C2	34	DA	C4-C5-C6	5.70	119.85	117.00
114	C4	6	DA	O4'-C1'-N9	5.70	111.99	108.00
143	CZ	27	DA	C4-C5-C6	5.70	119.85	117.00
1	AA	2564	DA	C5-C6-N6	-5.70	119.14	123.70
1	AA	2586	DA	C5-C6-N6	-5.70	119.14	123.70
1	AA	2671	DA	C5-C6-N6	-5.70	119.14	123.70
1	AA	2788	DA	C5-C6-N6	-5.70	119.14	123.70
1	AA	3598	DA	C4-C5-C6	5.70	119.85	117.00
1	AA	3949	DA	C4-C5-C6	5.70	119.85	117.00
1	AA	4399	DA	C5-C6-N6	-5.70	119.14	123.70
1	AA	4782	DA	C5-C6-N6	-5.70	119.14	123.70
1	AA	5444	DA	C4-C5-C6	5.70	119.85	117.00
2	A0	29	DA	C5-C6-N6	-5.70	119.14	123.70
8	A6	31	DC	N3-C4-C5	-5.70	119.62	121.90
15	AF	10	DC	N3-C4-C5	-5.70	119.62	121.90
16	AG	39	DA	C4-C5-C6	5.70	119.85	117.00
22	AM	37	DA	C5-C6-N6	-5.70	119.14	123.70
23	AN	36	DC	N3-C4-C5	-5.70	119.62	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	AY	35	DC	N3-C4-N4	5.70	121.99	118.00
47	An	3	DC	N3-C4-N4	5.70	121.99	118.00
62	B6	22	DC	N3-C4-N4	5.70	121.99	118.00
67	BC	15	DA	C4-C5-C6	5.70	119.85	117.00
71	BG	31	DA	C4-C5-C6	5.70	119.85	117.00
74	BJ	49	DA	C4-C5-C6	5.70	119.85	117.00
77	BM	18	DA	C5-C6-N6	-5.70	119.14	123.70
96	Bf	31	DA	C5-C6-N6	-5.70	119.14	123.70
98	Bh	8	DA	C4-C5-C6	5.70	119.85	117.00
103	Bm	25	DA	C4-C5-C6	5.70	119.85	117.00
112	C2	30	DA	O4'-C4'-C3'	-5.70	102.22	104.50
121	CD	42	DA	C4-C5-C6	5.70	119.85	117.00
127	CJ	58	DA	C4-C5-C6	5.70	119.85	117.00
141	CX	23	DA	C4-C5-C6	5.70	119.85	117.00
142	CY	6	DC	N3-C4-C5	-5.70	119.62	121.90
142	CY	34	DA	C5-C6-N6	-5.70	119.14	123.70
162	Cz	37	DA	C4-C5-C6	5.70	119.85	117.00
1	AA	611	DA	C5-C6-N6	-5.70	119.14	123.70
1	AA	1349	DA	C4-C5-C6	5.70	119.85	117.00
1	AA	1401	DA	C4-C5-C6	5.70	119.85	117.00
1	AA	1643	DA	C4-C5-C6	5.70	119.85	117.00
1	AA	2171	DC	N3-C4-C5	-5.70	119.62	121.90
1	AA	2320	DA	C4-C5-C6	5.70	119.85	117.00
1	AA	2935	DA	C5-C6-N6	-5.70	119.14	123.70
1	AA	3286	DC	N3-C4-N4	5.70	121.99	118.00
1	AA	3510	DA	C4-C5-C6	5.70	119.85	117.00
1	AA	3636	DA	C4-C5-C6	5.70	119.85	117.00
1	AA	5803	DA	C5-C6-N6	-5.70	119.14	123.70
1	AA	6142	DA	C5-C6-N6	-5.70	119.14	123.70
1	AA	6192	DA	C5-C6-N6	-5.70	119.14	123.70
7	A5	11	DA	C5-C6-N1	-5.70	114.85	117.70
14	AE	40	DA	C4-C5-C6	5.70	119.85	117.00
15	AF	37	DA	C4-C5-C6	5.70	119.85	117.00
38	Ad	32	DA	C4-C5-C6	5.70	119.85	117.00
40	Ag	1	DA	C4-C5-C6	5.70	119.85	117.00
60	B4	16	DA	C4-C5-C6	5.70	119.85	117.00
80	BP	61	DA	C4-C5-C6	5.70	119.85	117.00
87	BW	22	DA	C5-C6-N1	-5.70	114.85	117.70
92	Bb	39	DC	N3-C4-N4	5.70	121.99	118.00
96	Bf	16	DA	C4-C5-C6	5.70	119.85	117.00
100	Bj	6	DA	C5-C6-N6	-5.70	119.14	123.70
100	Bj	9	DC	N3-C4-N4	5.70	121.99	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
115	C5	17	DA	C4-C5-C6	5.70	119.85	117.00
123	CF	10	DA	C4-C5-C6	5.70	119.85	117.00
134	CQ	33	DC	N3-C4-N4	5.70	121.99	118.00
135	CR	19	DA	C5-C6-N1	-5.70	114.85	117.70
141	CX	39	DA	C5-C6-N6	-5.70	119.14	123.70
154	Cr	26	DA	C5-C6-N6	-5.70	119.14	123.70
161	Cy	19	DA	C4-C5-C6	5.70	119.85	117.00
1	AA	258	DA	C5-C6-N6	-5.70	119.14	123.70
1	AA	2318	DA	C5-C6-N6	-5.70	119.14	123.70
1	AA	4553	DA	C4-C5-C6	5.70	119.85	117.00
1	AA	5494	DC	N3-C4-C5	-5.70	119.62	121.90
1	AA	5925	DA	C5-C6-N6	-5.70	119.14	123.70
1	AA	6321	DC	N3-C4-N4	5.70	121.99	118.00
1	AA	6622	DC	N3-C4-N4	5.70	121.99	118.00
8	A6	14	DC	N3-C4-N4	5.70	121.99	118.00
15	AF	39	DA	C5-C6-N6	-5.70	119.14	123.70
73	BI	19	DC	P-O5'-C5'	-5.70	111.78	120.90
110	C0	11	DA	C5-C6-N6	-5.70	119.14	123.70
131	CN	27	DA	C5-C6-N6	-5.70	119.14	123.70
1	AA	395	DA	C5-C6-N6	-5.70	119.14	123.70
1	AA	1333	DA	C5-C6-N6	-5.70	119.14	123.70
1	AA	3414	DC	O4'-C1'-N1	5.70	111.99	108.00
1	AA	3513	DC	O4'-C1'-N1	5.70	111.99	108.00
1	AA	4211	DC	N3-C4-N4	5.70	121.99	118.00
1	AA	6246	DA	C4-C5-C6	5.70	119.85	117.00
1	AA	7120	DC	N3-C4-N4	5.70	121.99	118.00
1	AA	7132	DC	N3-C4-N4	5.70	121.99	118.00
2	A0	10	DA	C5-C6-N6	-5.70	119.14	123.70
16	AG	24	DA	C5-C6-N6	-5.70	119.14	123.70
16	AG	34	DA	C5-C6-N6	-5.70	119.14	123.70
19	AJ	11	DA	C5-C6-N6	-5.70	119.14	123.70
25	AP	34	DC	N3-C4-N4	5.70	121.99	118.00
26	AQ	52	DA	C5-C6-N6	-5.70	119.14	123.70
31	AV	37	DA	C5-C6-N6	-5.70	119.14	123.70
49	As	43	DA	C5-C6-N6	-5.70	119.14	123.70
56	B0	34	DC	N3-C4-N4	5.70	121.99	118.00
74	BJ	45	DC	N3-C4-C5	-5.70	119.62	121.90
75	BK	42	DA	C4-C5-C6	5.70	119.85	117.00
84	BT	22	DA	C5-C6-N6	-5.70	119.14	123.70
116	C6	20	DA	C4-C5-C6	5.70	119.85	117.00
119	CB	17	DC	N3-C4-C5	-5.70	119.62	121.90
124	CG	6	DA	C5-C6-N6	-5.70	119.14	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
125	CH	37	DA	C4-C5-C6	5.70	119.85	117.00
148	Cf	14	DA	C5-C6-N6	-5.70	119.14	123.70
149	Cg	33	DA	C4-C5-C6	5.70	119.85	117.00
150	Ch	10	DA	C4-C5-C6	5.70	119.85	117.00
153	Cq	16	DA	C5-C6-N6	-5.70	119.14	123.70
157	Cu	17	DA	C5-C6-N6	-5.70	119.14	123.70
157	Cu	36	DA	C4-C5-C6	5.70	119.85	117.00
1	AA	1039	DA	C5-C6-N6	-5.69	119.14	123.70
1	AA	1212	DA	C4-C5-C6	5.69	119.85	117.00
1	AA	1434	DA	C4-C5-C6	5.69	119.85	117.00
1	AA	2908	DA	C4-C5-C6	5.69	119.85	117.00
1	AA	6086	DC	N3-C4-C5	-5.69	119.62	121.90
1	AA	6393	DC	N3-C4-N4	5.69	121.98	118.00
1	AA	6662	DA	C5-C6-N6	-5.69	119.14	123.70
1	AA	7029	DC	N3-C4-C5	-5.69	119.62	121.90
16	AG	39	DA	C5-C6-N6	-5.69	119.14	123.70
17	AH	39	DC	N3-C4-C5	-5.69	119.62	121.90
44	Ak	13	DA	C4-C5-C6	5.69	119.85	117.00
65	B9	9	DA	C4-C5-C6	5.69	119.85	117.00
67	BC	39	DA	C4-C5-C6	5.69	119.85	117.00
88	BX	2	DC	N3-C4-C5	-5.69	119.62	121.90
96	Bf	48	DA	C5-C6-N1	-5.69	114.85	117.70
112	C2	55	DC	N3-C4-N4	5.69	121.99	118.00
1	AA	195	DC	O4'-C1'-N1	5.69	111.98	108.00
1	AA	337	DC	N3-C4-N4	5.69	121.98	118.00
1	AA	411	DA	C4-C5-C6	5.69	119.85	117.00
1	AA	687	DA	C5-C6-N1	-5.69	114.85	117.70
1	AA	1045	DA	C4-C5-C6	5.69	119.85	117.00
1	AA	1068	DA	C5-C6-N6	-5.69	119.15	123.70
1	AA	1162	DT	C1'-O4'-C4'	-5.69	104.41	110.10
1	AA	1703	DA	C5-C6-N6	-5.69	119.14	123.70
1	AA	1775	DA	C5-C6-N6	-5.69	119.15	123.70
1	AA	2649	DA	C4-C5-C6	5.69	119.85	117.00
1	AA	4310	DC	N3-C4-N4	5.69	121.98	118.00
1	AA	4670	DA	C4-C5-C6	5.69	119.85	117.00
1	AA	4771	DA	C5-C6-N6	-5.69	119.15	123.70
1	AA	4954	DA	C5-C6-N1	-5.69	114.85	117.70
1	AA	5028	DA	C5-C6-N6	-5.69	119.15	123.70
1	AA	5545	DA	O4'-C1'-C2'	-5.69	101.35	105.90
1	AA	5588	DC	N3-C4-C5	-5.69	119.62	121.90
1	AA	5675	DA	C4-C5-C6	5.69	119.85	117.00
1	AA	5745	DA	C4-C5-C6	5.69	119.85	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5822	DC	N3-C4-N4	5.69	121.98	118.00
1	AA	6149	DA	C4-C5-C6	5.69	119.85	117.00
3	A1	3	DA	C4-C5-C6	5.69	119.85	117.00
3	A1	18	DT	O4'-C4'-C3'	-5.69	102.22	104.50
3	A1	22	DC	N3-C4-N4	5.69	121.98	118.00
19	AJ	2	DA	C5-C6-N6	-5.69	119.14	123.70
29	AT	14	DA	C4-C5-C6	5.69	119.85	117.00
50	Au	7	DG	O4'-C4'-C3'	-5.69	102.22	104.50
58	B2	4	DA	C5-C6-N1	-5.69	114.85	117.70
64	B8	9	DA	C4-C5-C6	5.69	119.85	117.00
69	BE	66	DA	C4-C5-C6	5.69	119.85	117.00
80	BP	42	DA	C4-C5-C6	5.69	119.85	117.00
87	BW	37	DA	C5-C6-N6	-5.69	119.15	123.70
97	Bg	35	DC	N3-C4-C5	-5.69	119.62	121.90
100	Bj	23	DC	N3-C4-N4	5.69	121.98	118.00
105	Bo	38	DA	C5-C6-N6	-5.69	119.15	123.70
130	CM	53	DA	C5-C6-N6	-5.69	119.15	123.70
153	Cq	5	DA	C4-C5-C6	5.69	119.85	117.00
158	Cv	18	DA	C5-C6-N6	-5.69	119.15	123.70
1	AA	151	DA	C5-C6-N1	-5.69	114.85	117.70
1	AA	574	DA	C4-C5-C6	5.69	119.84	117.00
1	AA	1009	DA	C4-C5-C6	5.69	119.85	117.00
1	AA	1212	DA	C5-C6-N6	-5.69	119.15	123.70
1	AA	1287	DC	N3-C4-N4	5.69	121.98	118.00
1	AA	1685	DA	C4-C5-C6	5.69	119.84	117.00
1	AA	1968	DA	C5-C6-N6	-5.69	119.15	123.70
1	AA	2572	DA	C4-C5-C6	5.69	119.84	117.00
1	AA	3752	DA	C5-C6-N1	-5.69	114.86	117.70
1	AA	5889	DA	C4-C5-C6	5.69	119.84	117.00
1	AA	6102	DC	N3-C4-N4	5.69	121.98	118.00
1	AA	6202	DA	C5-C6-N6	-5.69	119.15	123.70
1	AA	6521	DC	N3-C4-C5	-5.69	119.62	121.90
1	AA	6613	DA	C5-C6-N6	-5.69	119.15	123.70
23	AN	2	DA	C5-C6-N6	-5.69	119.15	123.70
33	AX	13	DA	C4-C5-C6	5.69	119.85	117.00
36	Ab	40	DC	N3-C4-N4	5.69	121.98	118.00
40	Ag	9	DA	C4-C5-C6	5.69	119.85	117.00
88	BX	23	DA	C4-C5-C6	5.69	119.85	117.00
96	Bf	18	DC	N3-C4-N4	5.69	121.98	118.00
96	Bf	20	DA	C4-C5-C6	5.69	119.84	117.00
117	C7	31	DA	C5-C6-N6	-5.69	119.15	123.70
120	CC	16	DA	C4-C5-C6	5.69	119.85	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
131	CN	39	DA	C5-C6-N6	-5.69	119.15	123.70
135	CR	27	DA	C4-C5-C6	5.69	119.84	117.00
138	CU	14	DA	C5-C6-N6	-5.69	119.15	123.70
145	Cc	26	DC	N3-C4-N4	5.69	121.98	118.00
161	Cy	17	DA	C5-C6-N6	-5.69	119.15	123.70
162	Cz	24	DA	C4-C5-C6	5.69	119.85	117.00
1	AA	3041	DA	C4-C5-C6	5.69	119.84	117.00
1	AA	3307	DA	C5-C6-N6	-5.69	119.15	123.70
1	AA	4672	DA	C5-C6-N6	-5.69	119.15	123.70
1	AA	7096	DC	O4'-C1'-C2'	-5.69	101.35	105.90
4	A2	13	DA	C4-C5-C6	5.69	119.84	117.00
7	A5	22	DA	C4-C5-C6	5.69	119.84	117.00
39	Af	26	DA	O4'-C1'-N9	5.69	111.98	108.00
43	Aj	44	DA	C4-C5-C6	5.69	119.84	117.00
44	Ak	22	DA	C4-C5-C6	5.69	119.84	117.00
56	B0	28	DA	C5-C6-N6	-5.69	119.15	123.70
58	B2	6	DA	C4-C5-C6	5.69	119.84	117.00
153	Cq	23	DA	C4-C5-C6	5.69	119.84	117.00
161	Cy	51	DA	C4-C5-C6	5.69	119.84	117.00
162	Cz	17	DC	N3-C4-C5	-5.69	119.62	121.90
1	AA	870	DC	N3-C4-N4	5.69	121.98	118.00
1	AA	2136	DA	C5-C6-N6	-5.69	119.15	123.70
1	AA	2617	DA	C5-C6-N6	-5.69	119.15	123.70
1	AA	3187	DA	C5-C6-N6	-5.69	119.15	123.70
1	AA	3202	DA	O4'-C1'-N9	5.69	111.98	108.00
1	AA	3561	DA	C5-C6-N6	-5.69	119.15	123.70
1	AA	4036	DC	N3-C4-C5	-5.69	119.62	121.90
1	AA	5082	DG	O4'-C4'-C3'	-5.69	102.22	104.50
1	AA	5330	DA	C5-C6-N6	-5.69	119.15	123.70
1	AA	5443	DA	C5-C6-N6	-5.69	119.15	123.70
1	AA	6133	DA	C5-C6-N6	-5.69	119.15	123.70
1	AA	6536	DA	C4-C5-C6	5.69	119.84	117.00
13	AD	49	DC	N3-C4-N4	5.69	121.98	118.00
18	AI	21	DC	N3-C4-N4	5.69	121.98	118.00
22	AM	32	DC	N3-C4-N4	5.69	121.98	118.00
36	Ab	36	DA	C4-C5-C6	5.69	119.84	117.00
44	Ak	46	DA	C5-C6-N6	-5.69	119.15	123.70
46	Am	30	DC	N3-C4-N4	5.69	121.98	118.00
51	Av	5	DC	O4'-C1'-N1	5.69	111.98	108.00
62	B6	34	DA	C5-C6-N1	-5.69	114.86	117.70
79	BO	4	DA	C4-C5-C6	5.69	119.84	117.00
90	BZ	5	DA	C5-C6-N6	-5.69	119.15	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
93	Bc	22	DA	C5-C6-N6	-5.69	119.15	123.70
102	Bl	39	DA	C5-C6-N6	-5.69	119.15	123.70
120	CC	7	DA	C5-C6-N6	-5.69	119.15	123.70
150	Ch	5	DA	C4-C5-C6	5.69	119.84	117.00
150	Ch	38	DA	C4-C5-C6	5.69	119.84	117.00
1	AA	478	DA	C4-C5-C6	5.69	119.84	117.00
1	AA	3308	DC	N3-C4-N4	5.69	121.98	118.00
1	AA	3379	DA	C5-C6-N6	-5.69	119.15	123.70
1	AA	3394	DA	C4-C5-C6	5.69	119.84	117.00
1	AA	3696	DA	C5-C6-N6	-5.69	119.15	123.70
1	AA	4325	DA	C4-C5-C6	5.69	119.84	117.00
1	AA	5410	DC	N3-C4-N4	5.69	121.98	118.00
1	AA	5930	DA	C4-C5-C6	5.69	119.84	117.00
1	AA	6534	DA	C4-C5-C6	5.69	119.84	117.00
13	AD	43	DA	C5-C6-N6	-5.69	119.15	123.70
18	AI	23	DA	C5-C6-N6	-5.69	119.15	123.70
35	AZ	10	DA	C4-C5-C6	5.69	119.84	117.00
68	BD	28	DG	P-O3'-C3'	5.69	126.52	119.70
95	Be	45	DA	C5-C6-N6	-5.69	119.15	123.70
96	Bf	1	DA	C5-C6-N1	-5.69	114.86	117.70
103	Bm	24	DA	C5-C6-N6	-5.69	119.15	123.70
134	CQ	22	DA	C4-C5-C6	5.69	119.84	117.00
141	CX	17	DC	N3-C4-N4	5.69	121.98	118.00
153	Cq	35	DA	C4-C5-C6	5.69	119.84	117.00
1	AA	287	DC	N3-C4-N4	5.68	121.98	118.00
1	AA	374	DA	C4-C5-C6	5.68	119.84	117.00
1	AA	733	DA	C5-C6-N6	-5.68	119.15	123.70
1	AA	990	DA	C4-C5-C6	5.68	119.84	117.00
1	AA	1189	DA	C5-C6-N6	-5.68	119.15	123.70
1	AA	1209	DA	C5-C6-N6	-5.68	119.15	123.70
1	AA	1958	DA	C5-C6-N6	-5.68	119.15	123.70
1	AA	1962	DA	C5-C6-N6	-5.68	119.15	123.70
1	AA	3349	DA	C4-C5-C6	5.68	119.84	117.00
1	AA	4255	DA	C4-C5-C6	5.68	119.84	117.00
1	AA	4885	DC	N3-C4-N4	5.68	121.98	118.00
1	AA	5281	DA	C4-C5-C6	5.68	119.84	117.00
1	AA	5302	DA	C4-C5-C6	5.68	119.84	117.00
1	AA	5390	DA	C4-C5-C6	5.68	119.84	117.00
1	AA	5727	DA	C3'-C2'-C1'	-5.68	95.68	102.50
1	AA	5971	DA	C4-C5-C6	5.68	119.84	117.00
1	AA	6241	DA	C4-C5-C6	5.68	119.84	117.00
1	AA	7081	DA	C5-C6-N6	-5.68	119.15	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	7121	DA	C5-C6-N6	-5.68	119.15	123.70
1	AA	7151	DA	C5-C6-N6	-5.68	119.15	123.70
16	AG	6	DC	N3-C4-N4	5.68	121.98	118.00
18	AI	29	DA	C5-C6-N6	-5.68	119.15	123.70
29	AT	35	DA	C4-C5-C6	5.68	119.84	117.00
31	AV	40	DC	N3-C4-N4	5.68	121.98	118.00
33	AX	3	DC	N3-C4-N4	5.68	121.98	118.00
38	Ad	9	DA	C4-C5-C6	5.68	119.84	117.00
55	Az	7	DA	P-O3'-C3'	5.68	126.52	119.70
61	B5	28	DC	N3-C4-N4	5.68	121.98	118.00
67	BC	1	DA	C5-C6-N6	-5.68	119.15	123.70
82	BR	62	DA	C4-C5-C6	5.68	119.84	117.00
110	C0	11	DA	C4-C5-C6	5.68	119.84	117.00
111	C1	33	DA	C4-C5-C6	5.68	119.84	117.00
119	CB	14	DC	N3-C4-N4	5.68	121.98	118.00
136	CS	8	DA	C4-C5-C6	5.68	119.84	117.00
141	CX	7	DA	C4-C5-C6	5.68	119.84	117.00
148	Cf	45	DA	C4-C5-C6	5.68	119.84	117.00
159	Cw	47	DA	C5-C6-N6	-5.68	119.15	123.70
162	Cz	43	DA	C5-C6-N1	-5.68	114.86	117.70
1	AA	221	DC	N3-C4-N4	5.68	121.98	118.00
1	AA	975	DT	P-O3'-C3'	5.68	126.52	119.70
1	AA	992	DA	C5-C6-N6	-5.68	119.15	123.70
1	AA	1274	DA	C4-C5-C6	5.68	119.84	117.00
1	AA	1388	DA	C4-C5-C6	5.68	119.84	117.00
1	AA	2662	DA	C5-C6-N1	-5.68	114.86	117.70
1	AA	3104	DA	C4-C5-C6	5.68	119.84	117.00
1	AA	3201	DA	C4-C5-C6	5.68	119.84	117.00
1	AA	3456	DA	P-O3'-C3'	5.68	126.52	119.70
1	AA	3751	DA	C5-C6-N6	-5.68	119.16	123.70
1	AA	3764	DA	C4-C5-C6	5.68	119.84	117.00
1	AA	4929	DA	C5-C6-N1	-5.68	114.86	117.70
1	AA	6775	DA	C4-C5-C6	5.68	119.84	117.00
1	AA	6881	DC	N3-C4-N4	5.68	121.98	118.00
1	AA	6995	DC	N3-C4-C5	-5.68	119.63	121.90
7	A5	25	DA	C4-C5-C6	5.68	119.84	117.00
9	A7	41	DC	N3-C4-N4	5.68	121.98	118.00
17	AH	39	DC	N3-C4-N4	5.68	121.98	118.00
23	AN	28	DA	C5-C6-N6	-5.68	119.16	123.70
26	AQ	41	DA	C4-C5-C6	5.68	119.84	117.00
27	AR	28	DA	P-O3'-C3'	5.68	126.52	119.70
30	AU	11	DA	C4-C5-C6	5.68	119.84	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	AW	24	DA	C4-C5-C6	5.68	119.84	117.00
37	Ac	21	DA	C4-C5-C6	5.68	119.84	117.00
38	Ad	40	DC	N3-C4-N4	5.68	121.98	118.00
57	B1	41	DA	C4-C5-C6	5.68	119.84	117.00
76	BL	20	DA	C4-C5-C6	5.68	119.84	117.00
79	BO	26	DA	C4'-C3'-C2'	-5.68	97.98	103.10
91	Ba	29	DA	O4'-C1'-C2'	-5.68	101.35	105.90
106	Bp	31	DA	P-O3'-C3'	5.68	126.52	119.70
107	Bq	51	DA	C5-C6-N6	-5.68	119.15	123.70
135	CR	41	DA	C4-C5-C6	5.68	119.84	117.00
136	CS	12	DC	N3-C4-N4	5.68	121.98	118.00
149	Cg	40	DA	C5-C6-N6	-5.68	119.15	123.70
161	Cy	23	DA	C4-C5-C6	5.68	119.84	117.00
1	AA	216	DA	C4-C5-C6	5.68	119.84	117.00
1	AA	3327	DG	O4'-C1'-C2'	-5.68	101.36	105.90
1	AA	3696	DA	C4-C5-C6	5.68	119.84	117.00
1	AA	4192	DC	N3-C4-N4	5.68	121.98	118.00
1	AA	4860	DA	C4-C5-C6	5.68	119.84	117.00
1	AA	6482	DA	C4-C5-C6	5.68	119.84	117.00
2	A0	14	DA	C4-C5-C6	5.68	119.84	117.00
4	A2	48	DA	C5-C6-N6	-5.68	119.16	123.70
23	AN	7	DA	C5-C6-N6	-5.68	119.16	123.70
37	Ac	33	DA	C4-C5-C6	5.68	119.84	117.00
44	Ak	27	DA	C4-C5-C6	5.68	119.84	117.00
45	Al	4	DA	C4-C5-C6	5.68	119.84	117.00
51	Av	22	DA	C5-C6-N6	-5.68	119.16	123.70
72	BH	29	DC	N3-C4-N4	5.68	121.98	118.00
89	BY	33	DT	C1'-O4'-C4'	-5.68	104.42	110.10
120	CC	42	DA	C4-C5-C6	5.68	119.84	117.00
126	CI	32	DA	C4-C5-C6	5.68	119.84	117.00
139	CV	28	DA	C4-C5-C6	5.68	119.84	117.00
145	Cc	59	DA	C5-C6-N6	-5.68	119.16	123.70
1	AA	255	DA	C4-C5-C6	5.68	119.84	117.00
1	AA	1522	DA	C5-C6-N6	-5.68	119.16	123.70
1	AA	2248	DA	C5-C6-N6	-5.68	119.16	123.70
1	AA	3706	DA	C4-C5-C6	5.68	119.84	117.00
1	AA	3793	DA	C5-C6-N6	-5.68	119.16	123.70
1	AA	5614	DA	C4-C5-C6	5.68	119.84	117.00
1	AA	5932	DA	C5-C6-N6	-5.68	119.16	123.70
1	AA	7021	DA	C5-C6-N6	-5.68	119.16	123.70
16	AG	29	DA	C4-C5-C6	5.68	119.84	117.00
18	AI	37	DA	C4-C5-C6	5.68	119.84	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	AJ	11	DA	C4-C5-C6	5.68	119.84	117.00
30	AU	12	DA	C4-C5-C6	5.68	119.84	117.00
38	Ad	25	DC	N3-C4-N4	5.68	121.97	118.00
52	Aw	16	DA	C4-C5-C6	5.68	119.84	117.00
56	B0	35	DA	C4-C5-C6	5.68	119.84	117.00
59	B3	41	DA	C4-C5-C6	5.68	119.84	117.00
96	Bf	20	DA	C5-C6-N6	-5.68	119.16	123.70
118	C8	21	DC	N3-C4-N4	5.68	121.97	118.00
122	CE	35	DA	C4-C5-C6	5.68	119.84	117.00
129	CL	48	DA	C4-C5-C6	5.68	119.84	117.00
132	CO	4	DA	P-O3'-C3'	5.68	126.52	119.70
133	CP	55	DC	N3-C4-N4	5.68	121.98	118.00
154	Cr	12	DA	C4-C5-C6	5.68	119.84	117.00
154	Cr	34	DC	N3-C4-N4	5.68	121.98	118.00
157	Cu	13	DA	C5-C6-N6	-5.68	119.16	123.70
162	Cz	13	DA	C4-C5-C6	5.68	119.84	117.00
1	AA	83	DA	P-O3'-C3'	5.68	126.51	119.70
1	AA	643	DC	N3-C4-C5	-5.68	119.63	121.90
1	AA	2378	DA	C5-C6-N6	-5.68	119.16	123.70
1	AA	2643	DC	N3-C4-N4	5.68	121.97	118.00
1	AA	3118	DC	N3-C4-N4	5.68	121.97	118.00
1	AA	4435	DC	N3-C4-C5	-5.68	119.63	121.90
1	AA	4525	DA	C5-C6-N1	-5.68	114.86	117.70
1	AA	4607	DA	C4-C5-C6	5.68	119.84	117.00
1	AA	5202	DA	C5-C6-N6	-5.68	119.16	123.70
1	AA	5352	DG	P-O3'-C3'	5.68	126.51	119.70
1	AA	5416	DA	C5-C6-N6	-5.68	119.16	123.70
27	AR	7	DC	N3-C4-C5	-5.68	119.63	121.90
29	AT	7	DA	C5-C6-N6	-5.68	119.16	123.70
30	AU	24	DA	C4-C5-C6	5.68	119.84	117.00
66	BB	38	DA	C5-C6-N6	-5.68	119.16	123.70
101	Bk	22	DA	C5-C6-N6	-5.68	119.16	123.70
102	Bl	31	DA	C5-C6-N6	-5.68	119.16	123.70
114	C4	49	DC	P-O5'-C5'	-5.68	111.81	120.90
116	C6	24	DA	C4-C5-C6	5.68	119.84	117.00
136	CS	4	DA	C5-C6-N1	-5.68	114.86	117.70
157	Cu	47	DA	C4-C5-C6	5.68	119.84	117.00
1	AA	25	DA	C5-C6-N6	-5.68	119.16	123.70
1	AA	145	DA	C5-C6-N6	-5.68	119.16	123.70
1	AA	664	DC	N3-C4-N4	5.68	121.97	118.00
1	AA	738	DA	C5-C6-N6	-5.68	119.16	123.70
1	AA	762	DA	C4-C5-C6	5.68	119.84	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	803	DA	C5-C6-N6	-5.68	119.16	123.70
1	AA	1102	DA	C4-C5-C6	5.68	119.84	117.00
1	AA	2293	DT	P-O3'-C3'	5.68	126.51	119.70
1	AA	4195	DA	C5-C6-N6	-5.68	119.16	123.70
1	AA	4996	DC	N3-C4-N4	5.68	121.97	118.00
1	AA	5162	DA	C5-C6-N1	-5.68	114.86	117.70
1	AA	5620	DA	C5-C6-N1	-5.68	114.86	117.70
1	AA	6265	DA	C5-C6-N6	-5.68	119.16	123.70
1	AA	6832	DC	N3-C4-N4	5.68	121.97	118.00
5	A3	32	DC	P-O5'-C5'	-5.68	111.82	120.90
25	AP	19	DA	C5-C6-N6	-5.68	119.16	123.70
29	AT	45	DA	C5-C6-N6	-5.68	119.16	123.70
31	AV	48	DA	C4-C5-C6	5.68	119.84	117.00
40	Ag	14	DC	N3-C4-N4	5.68	121.97	118.00
57	B1	37	DA	C5-C6-N6	-5.68	119.16	123.70
71	BG	4	DA	C5-C6-N1	-5.68	114.86	117.70
75	BK	26	DA	C5-C6-N6	-5.68	119.16	123.70
78	BN	52	DA	C4-C5-C6	5.68	119.84	117.00
81	BQ	44	DA	C5-C6-N6	-5.68	119.16	123.70
101	Bk	30	DA	C5-C6-N6	-5.68	119.16	123.70
105	Bo	37	DC	N3-C4-N4	5.68	121.97	118.00
110	C0	31	DA	C5-C6-N6	-5.68	119.16	123.70
140	CW	21	DC	N3-C4-C5	-5.68	119.63	121.90
142	CY	2	DA	C4-C5-C6	5.68	119.84	117.00
145	Cc	24	DC	N3-C4-N4	5.68	121.97	118.00
146	Cd	37	DA	C4-C5-C6	5.68	119.84	117.00
159	Cw	49	DA	C5-C6-N6	-5.68	119.16	123.70
1	AA	1750	DA	C5-C6-N6	-5.67	119.16	123.70
1	AA	2196	DA	C4-C5-C6	5.67	119.84	117.00
1	AA	2934	DC	N3-C4-N4	5.67	121.97	118.00
1	AA	3706	DA	C5-C6-N6	-5.67	119.16	123.70
1	AA	4357	DA	C5-C6-N6	-5.67	119.16	123.70
1	AA	4811	DT	C1'-O4'-C4'	-5.67	104.42	110.10
1	AA	6026	DA	C4-C5-C6	5.67	119.84	117.00
1	AA	6915	DA	P-O3'-C3'	5.67	126.51	119.70
2	A0	24	DA	C5-C6-N6	-5.67	119.16	123.70
4	A2	41	DT	O4'-C4'-C3'	-5.67	102.23	104.50
12	AC	3	DA	C5-C6-N1	-5.67	114.86	117.70
18	AI	7	DA	C4-C5-C6	5.67	119.84	117.00
18	AI	19	DC	N3-C4-N4	5.67	121.97	118.00
42	Ai	3	DA	C5-C6-N6	-5.67	119.16	123.70
57	B1	56	DA	C5-C6-N6	-5.67	119.16	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
62	B6	21	DA	C5-C6-N6	-5.67	119.16	123.70
66	BB	14	DA	C4-C5-C6	5.67	119.84	117.00
66	BB	23	DA	C5-C6-N6	-5.67	119.16	123.70
74	BJ	24	DC	N3-C4-N4	5.67	121.97	118.00
85	BU	31	DA	O4'-C1'-N9	5.67	111.97	108.00
89	BY	36	DA	C4-C5-C6	5.67	119.84	117.00
116	C6	1	DT	O4'-C1'-C2'	-5.67	101.36	105.90
117	C7	8	DA	C5-C6-N1	-5.67	114.86	117.70
122	CE	27	DA	C5-C6-N6	-5.67	119.16	123.70
147	Ce	6	DA	C4-C5-C6	5.67	119.84	117.00
158	Cv	2	DA	C4-C5-C6	5.67	119.84	117.00
161	Cy	2	DA	C4-C5-C6	5.67	119.84	117.00
1	AA	282	DA	C5-C6-N1	-5.67	114.86	117.70
1	AA	1211	DA	O4'-C4'-C3'	-5.67	102.23	104.50
1	AA	4123	DT	O4'-C1'-N1	5.67	111.97	108.00
1	AA	6041	DA	C4-C5-C6	5.67	119.84	117.00
1	AA	7062	DC	N3-C4-C5	-5.67	119.63	121.90
10	A8	33	DA	C4-C5-C6	5.67	119.84	117.00
15	AF	33	DT	C1'-O4'-C4'	-5.67	104.43	110.10
35	AZ	45	DA	C5-C6-N1	-5.67	114.86	117.70
45	Al	40	DA	C4-C5-C6	5.67	119.84	117.00
63	B7	42	DC	N3-C4-N4	5.67	121.97	118.00
151	Ck	36	DA	C4-C5-C6	5.67	119.84	117.00
159	Cw	8	DA	C4-C5-C6	5.67	119.84	117.00
1	AA	1215	DA	C5-C6-N6	-5.67	119.16	123.70
1	AA	1572	DA	C4-C5-C6	5.67	119.83	117.00
1	AA	2398	DC	N3-C4-N4	5.67	121.97	118.00
1	AA	4800	DA	C4-C5-C6	5.67	119.84	117.00
1	AA	6413	DC	N3-C4-N4	5.67	121.97	118.00
8	A6	18	DA	C4-C5-C6	5.67	119.83	117.00
19	AJ	43	DA	C5-C6-N6	-5.67	119.16	123.70
28	AS	7	DC	N3-C4-N4	5.67	121.97	118.00
28	AS	45	DA	C5-C6-N1	-5.67	114.86	117.70
30	AU	19	DA	C4-C5-C6	5.67	119.84	117.00
33	AX	31	DC	N3-C4-N4	5.67	121.97	118.00
35	AZ	23	DA	C5-C6-N6	-5.67	119.16	123.70
47	An	2	DA	C5-C6-N6	-5.67	119.16	123.70
54	Ay	14	DA	C5-C6-N6	-5.67	119.16	123.70
78	BN	40	DA	C5-C6-N6	-5.67	119.16	123.70
84	BT	42	DA	C5-C6-N6	-5.67	119.16	123.70
95	Be	2	DA	C5-C6-N6	-5.67	119.16	123.70
110	C0	4	DA	C5-C6-N6	-5.67	119.16	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
115	C5	44	DA	C4-C5-C6	5.67	119.84	117.00
128	CK	42	DC	N3-C4-N4	5.67	121.97	118.00
137	CT	30	DA	C4-C5-C6	5.67	119.84	117.00
142	CY	18	DA	C4-C5-C6	5.67	119.84	117.00
156	Ct	40	DA	C5-C6-N6	-5.67	119.16	123.70
157	Cu	2	DA	C5-C6-N1	-5.67	114.86	117.70
162	Cz	35	DC	N3-C4-C5	-5.67	119.63	121.90
1	AA	315	DA	C4-C5-C6	5.67	119.83	117.00
1	AA	888	DA	C4-C5-C6	5.67	119.83	117.00
1	AA	1045	DA	O4'-C1'-C2'	-5.67	101.36	105.90
1	AA	1881	DC	N3-C4-C5	-5.67	119.63	121.90
1	AA	2164	DA	C5-C6-N6	-5.67	119.16	123.70
1	AA	2324	DA	C5-C6-N6	-5.67	119.16	123.70
1	AA	4122	DA	C5-C6-N6	-5.67	119.16	123.70
1	AA	6784	DA	C5-C6-N6	-5.67	119.16	123.70
111	C1	39	DA	C5-C6-N6	-5.67	119.16	123.70
129	CL	48	DA	C5-C6-N1	-5.67	114.86	117.70
143	CZ	29	DA	C5-C6-N6	-5.67	119.16	123.70
1	AA	600	DT	P-O3'-C3'	5.67	126.50	119.70
1	AA	980	DA	C5-C6-N6	-5.67	119.17	123.70
1	AA	1370	DA	C4-C5-C6	5.67	119.83	117.00
1	AA	2793	DA	C4-C5-C6	5.67	119.83	117.00
1	AA	3061	DC	N3-C4-N4	5.67	121.97	118.00
1	AA	3198	DA	C4-C5-C6	5.67	119.83	117.00
1	AA	3535	DC	O4'-C1'-N1	5.67	111.97	108.00
1	AA	3690	DA	C5-C6-N6	-5.67	119.17	123.70
1	AA	3928	DA	C4-C5-C6	5.67	119.83	117.00
1	AA	3928	DA	C5-C6-N6	-5.67	119.17	123.70
1	AA	4023	DA	C5-C6-N6	-5.67	119.17	123.70
1	AA	4220	DC	N3-C4-N4	5.67	121.97	118.00
1	AA	4590	DA	C5-C6-N6	-5.67	119.16	123.70
1	AA	4939	DA	C4-C5-C6	5.67	119.83	117.00
1	AA	5143	DA	C4-C5-C6	5.67	119.83	117.00
1	AA	5390	DA	C5-C6-N6	-5.67	119.17	123.70
1	AA	6359	DA	C4-C5-C6	5.67	119.83	117.00
1	AA	6452	DC	N3-C4-N4	5.67	121.97	118.00
1	AA	6616	DA	C4-C5-C6	5.67	119.83	117.00
1	AA	7231	DA	C4-C5-C6	5.67	119.83	117.00
2	A0	51	DA	C4-C5-C6	5.67	119.83	117.00
23	AN	10	DC	N3-C4-N4	5.67	121.97	118.00
25	AP	21	DC	N3-C4-C5	-5.67	119.63	121.90
34	AY	1	DA	C5-C6-N6	-5.67	119.17	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
36	Ab	35	DA	C5-C6-N6	-5.67	119.17	123.70
36	Ab	45	DA	C4-C5-C6	5.67	119.83	117.00
43	Aj	19	DC	N3-C4-N4	5.67	121.97	118.00
45	Al	5	DC	O4'-C1'-N1	5.67	111.97	108.00
49	As	11	DT	O4'-C1'-C2'	-5.67	101.37	105.90
53	Ax	11	DA	C5-C6-N1	-5.67	114.86	117.70
56	B0	36	DA	C4-C5-C6	5.67	119.83	117.00
58	B2	27	DA	C5-C6-N1	-5.67	114.87	117.70
62	B6	2	DA	C5-C6-N6	-5.67	119.17	123.70
66	BB	13	DA	C4-C5-C6	5.67	119.83	117.00
71	BG	22	DC	N3-C4-C5	-5.67	119.63	121.90
72	BH	24	DC	P-O3'-C3'	5.67	126.50	119.70
87	BW	30	DA	C5-C6-N6	-5.67	119.17	123.70
98	Bh	5	DA	C5-C6-N6	-5.67	119.17	123.70
112	C2	2	DA	C5-C6-N6	-5.67	119.17	123.70
116	C6	4	DA	C4-C5-C6	5.67	119.83	117.00
116	C6	43	DC	N3-C4-N4	5.67	121.97	118.00
126	CI	1	DA	C5-C6-N6	-5.67	119.17	123.70
142	CY	19	DA	C4-C5-C6	5.67	119.83	117.00
159	Cw	16	DG	C1'-O4'-C4'	-5.67	104.43	110.10
1	AA	2071	DA	C4-C5-C6	5.67	119.83	117.00
1	AA	2647	DA	C5-C6-N1	-5.67	114.87	117.70
1	AA	2793	DA	C5-C6-N6	-5.67	119.17	123.70
1	AA	3090	DA	C4-C5-C6	5.67	119.83	117.00
1	AA	4707	DA	C4-C5-C6	5.67	119.83	117.00
1	AA	4884	DC	N3-C4-C5	-5.67	119.63	121.90
1	AA	5086	DA	C4-C5-C6	5.67	119.83	117.00
1	AA	5455	DA	C4-C5-C6	5.67	119.83	117.00
1	AA	5635	DC	N3-C4-N4	5.67	121.97	118.00
1	AA	6472	DG	C8-N9-C1'	5.67	134.37	127.00
32	AW	42	DA	C4-C5-C6	5.67	119.83	117.00
40	Ag	41	DA	C5-C6-N6	-5.67	119.17	123.70
56	B0	30	DC	N3-C4-C5	-5.67	119.63	121.90
60	B4	30	DC	N3-C4-C5	-5.67	119.63	121.90
71	BG	28	DA	C5-C6-N1	-5.67	114.87	117.70
75	BK	14	DA	C5-C6-N6	-5.67	119.17	123.70
75	BK	34	DA	C5-C6-N6	-5.67	119.17	123.70
75	BK	40	DA	C5-C6-N6	-5.67	119.17	123.70
77	BM	16	DA	C4-C5-C6	5.67	119.83	117.00
98	Bh	10	DG	O4'-C4'-C3'	-5.67	102.23	104.50
121	CD	25	DC	N3-C4-N4	5.67	121.97	118.00
121	CD	30	DA	C4-C5-C6	5.67	119.83	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
124	CG	20	DA	C5-C6-N6	-5.67	119.17	123.70
146	Cd	15	DA	C5-C6-N6	-5.67	119.17	123.70
153	Cq	24	DA	C5-C6-N6	-5.67	119.17	123.70
154	Cr	12	DA	C5-C6-N6	-5.67	119.17	123.70
162	Cz	30	DA	C5-C6-N6	-5.67	119.17	123.70
1	AA	1114	DA	C5-C6-N6	-5.67	119.17	123.70
1	AA	1624	DA	C4-C5-C6	5.67	119.83	117.00
1	AA	4903	DC	N3-C4-N4	5.67	121.97	118.00
1	AA	5091	DT	C1'-O4'-C4'	-5.67	104.44	110.10
1	AA	5227	DA	C5-C6-N6	-5.67	119.17	123.70
32	AW	24	DA	C5-C6-N6	-5.67	119.17	123.70
58	B2	33	DA	C5-C6-N6	-5.67	119.17	123.70
63	B7	14	DG	P-O3'-C3'	5.67	126.50	119.70
78	BN	39	DC	N3-C4-N4	5.67	121.97	118.00
89	BY	7	DA	C4-C5-C6	5.67	119.83	117.00
111	C1	46	DA	C5-C6-N6	-5.67	119.17	123.70
1	AA	603	DC	O4'-C1'-C2'	-5.66	101.37	105.90
1	AA	1134	DA	C5-C6-N6	-5.66	119.17	123.70
1	AA	1421	DA	C4-C5-C6	5.66	119.83	117.00
1	AA	1805	DA	C4-C5-C6	5.66	119.83	117.00
1	AA	3194	DA	C4-C5-C6	5.66	119.83	117.00
1	AA	3937	DC	N3-C4-N4	5.66	121.96	118.00
1	AA	5315	DC	N3-C4-N4	5.66	121.96	118.00
1	AA	5414	DA	C5-C6-N6	-5.66	119.17	123.70
1	AA	5659	DA	C4-C5-C6	5.66	119.83	117.00
1	AA	6432	DC	N3-C4-C5	-5.66	119.64	121.90
9	A7	20	DC	N3-C4-N4	5.66	121.96	118.00
50	Au	46	DA	C4-C5-C6	5.66	119.83	117.00
62	B6	4	DA	C5-C6-N6	-5.66	119.17	123.70
78	BN	19	DC	N3-C4-N4	5.66	121.96	118.00
84	BT	9	DA	C4-C5-C6	5.66	119.83	117.00
86	BV	33	DA	C5-C6-N6	-5.66	119.17	123.70
111	C1	2	DA	C5-C6-N6	-5.66	119.17	123.70
111	C1	10	DA	C5-C6-N6	-5.66	119.17	123.70
124	CG	42	DC	N3-C4-N4	5.66	121.97	118.00
138	CU	3	DA	C5-C6-N1	-5.66	114.87	117.70
142	CY	8	DA	C4-C5-C6	5.66	119.83	117.00
147	Ce	24	DA	C4-C5-C6	5.66	119.83	117.00
155	Cs	25	DA	C4-C5-C6	5.66	119.83	117.00
156	Ct	35	DA	C4-C5-C6	5.66	119.83	117.00
160	Cx	44	DA	C5-C6-N6	-5.66	119.17	123.70
1	AA	270	DC	N3-C4-N4	5.66	121.96	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	605	DC	O4'-C1'-C2'	-5.66	101.37	105.90
1	AA	774	DC	N3-C4-C5	-5.66	119.64	121.90
1	AA	1606	DA	C4-C5-C6	5.66	119.83	117.00
1	AA	3011	DA	C5-C6-N6	-5.66	119.17	123.70
1	AA	3179	DC	N3-C4-N4	5.66	121.96	118.00
1	AA	4071	DC	N3-C4-N4	5.66	121.96	118.00
1	AA	4375	DA	C4-C5-C6	5.66	119.83	117.00
1	AA	6061	DA	C4-C5-C6	5.66	119.83	117.00
1	AA	6249	DA	C4-C5-C6	5.66	119.83	117.00
1	AA	6678	DA	C5-C6-N6	-5.66	119.17	123.70
7	A5	5	DA	C4-C5-C6	5.66	119.83	117.00
13	AD	41	DA	C4-C5-C6	5.66	119.83	117.00
47	An	45	DA	C4-C5-C6	5.66	119.83	117.00
68	BD	4	DC	N3-C4-N4	5.66	121.96	118.00
72	BH	25	DA	C4-C5-C6	5.66	119.83	117.00
86	BV	32	DA	C5-C6-N6	-5.66	119.17	123.70
111	C1	12	DA	C5-C6-N1	-5.66	114.87	117.70
111	C1	15	DA	C5-C6-N6	-5.66	119.17	123.70
114	C4	4	DA	C4-C5-C6	5.66	119.83	117.00
124	CG	6	DA	C4-C5-C6	5.66	119.83	117.00
127	CJ	48	DA	C4-C5-C6	5.66	119.83	117.00
129	CL	5	DA	C5-C6-N6	-5.66	119.17	123.70
139	CV	33	DA	C4-C5-C6	5.66	119.83	117.00
145	Cc	1	DA	C4-C5-C6	5.66	119.83	117.00
1	AA	37	DA	C4-C5-C6	5.66	119.83	117.00
1	AA	96	DC	N3-C4-N4	5.66	121.96	118.00
1	AA	946	DA	C5-C6-N1	-5.66	114.87	117.70
1	AA	1239	DA	C5-C6-N1	-5.66	114.87	117.70
1	AA	1246	DA	C4-C5-C6	5.66	119.83	117.00
1	AA	1345	DA	C4-C5-C6	5.66	119.83	117.00
1	AA	1506	DA	O3'-P-O5'	5.66	114.76	104.00
1	AA	1751	DA	C4-C5-C6	5.66	119.83	117.00
1	AA	2042	DA	C5-C6-N6	-5.66	119.17	123.70
1	AA	2522	DC	O4'-C1'-N1	5.66	111.96	108.00
1	AA	2809	DC	N3-C4-N4	5.66	121.96	118.00
1	AA	2821	DA	C5-C6-N6	-5.66	119.17	123.70
1	AA	3570	DC	N3-C4-N4	5.66	121.96	118.00
1	AA	4083	DA	C4-C5-C6	5.66	119.83	117.00
1	AA	4749	DA	C4-C5-C6	5.66	119.83	117.00
1	AA	4831	DA	C5-C6-N1	-5.66	114.87	117.70
1	AA	4901	DA	C4-C5-C6	5.66	119.83	117.00
1	AA	5086	DA	C5-C6-N1	-5.66	114.87	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6050	DC	N3-C4-N4	5.66	121.96	118.00
1	AA	6161	DA	C5-C6-N6	-5.66	119.17	123.70
1	AA	6832	DC	O4'-C1'-N1	5.66	111.96	108.00
1	AA	7203	DC	N3-C4-N4	5.66	121.96	118.00
11	AB	2	DC	N3-C4-N4	5.66	121.96	118.00
17	AH	1	DC	N3-C4-N4	5.66	121.96	118.00
23	AN	19	DA	C4-C5-C6	5.66	119.83	117.00
31	AV	10	DG	C4'-C3'-C2'	-5.66	98.01	103.10
31	AV	52	DA	C4-C5-C6	5.66	119.83	117.00
34	AY	30	DA	C5-C6-N6	-5.66	119.17	123.70
43	Aj	19	DC	N3-C4-C5	-5.66	119.64	121.90
52	Aw	17	DA	P-O3'-C3'	5.66	126.49	119.70
60	B4	44	DA	C4-C5-C6	5.66	119.83	117.00
63	B7	27	DA	C5-C6-N6	-5.66	119.17	123.70
65	B9	4	DA	C5-C6-N6	-5.66	119.17	123.70
71	BG	49	DT	O4'-C1'-C2'	-5.66	101.37	105.90
86	BV	37	DA	C5-C6-N6	-5.66	119.17	123.70
109	Bs	5	DC	N3-C4-N4	5.66	121.96	118.00
111	C1	33	DA	C5-C6-N6	-5.66	119.17	123.70
111	C1	36	DA	C5-C6-N6	-5.66	119.17	123.70
114	C4	9	DA	C5-C6-N1	-5.66	114.87	117.70
118	C8	42	DG	C1'-O4'-C4'	-5.66	104.44	110.10
135	CR	19	DA	C5-C6-N6	-5.66	119.17	123.70
142	CY	40	DA	C4-C5-C6	5.66	119.83	117.00
1	AA	5	DA	C5-C6-N6	-5.66	119.17	123.70
1	AA	101	DC	N3-C4-N4	5.66	121.96	118.00
1	AA	1511	DA	C4-C5-C6	5.66	119.83	117.00
1	AA	1859	DA	P-O3'-C3'	5.66	126.49	119.70
1	AA	2907	DA	C4-C5-C6	5.66	119.83	117.00
1	AA	2950	DC	N3-C4-C5	-5.66	119.64	121.90
1	AA	3655	DC	N3-C4-N4	5.66	121.96	118.00
1	AA	3808	DC	O4'-C4'-C3'	-5.66	102.24	104.50
1	AA	3830	DC	N3-C4-N4	5.66	121.96	118.00
1	AA	4836	DC	N3-C4-N4	5.66	121.96	118.00
1	AA	5684	DA	C5-C6-N6	-5.66	119.17	123.70
1	AA	6301	DA	O4'-C1'-N9	5.66	111.96	108.00
1	AA	6677	DA	C5-C6-N6	-5.66	119.17	123.70
1	AA	6795	DT	O4'-C1'-N1	5.66	111.96	108.00
7	A5	14	DC	N3-C4-N4	5.66	121.96	118.00
22	AM	4	DA	C5-C6-N6	-5.66	119.17	123.70
31	AV	25	DA	C5-C6-N6	-5.66	119.17	123.70
43	Aj	8	DA	C4-C5-C6	5.66	119.83	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
71	BG	7	DA	C4-C5-C6	5.66	119.83	117.00
72	BH	42	DA	C5-C6-N6	-5.66	119.17	123.70
76	BL	47	DA	C4-C5-C6	5.66	119.83	117.00
80	BP	22	DC	N3-C4-N4	5.66	121.96	118.00
96	Bf	41	DA	C5-C6-N6	-5.66	119.17	123.70
98	Bh	47	DC	N3-C4-N4	5.66	121.96	118.00
101	Bk	24	DA	C5-C6-N1	-5.66	114.87	117.70
106	Bp	16	DC	O4'-C1'-C2'	-5.66	101.37	105.90
108	Br	6	DA	C5-C6-N6	-5.66	119.17	123.70
111	C1	11	DA	C5-C6-N6	-5.66	119.17	123.70
115	C5	35	DA	C4-C5-C6	5.66	119.83	117.00
120	CC	15	DA	C4-C5-C6	5.66	119.83	117.00
122	CE	29	DC	N3-C4-N4	5.66	121.96	118.00
129	CL	36	DC	N3-C4-C5	-5.66	119.64	121.90
130	CM	20	DA	C5-C6-N6	-5.66	119.17	123.70
154	Cr	27	DC	N3-C4-N4	5.66	121.96	118.00
1	AA	348	DA	C4-C5-C6	5.66	119.83	117.00
1	AA	2927	DC	N3-C4-N4	5.66	121.96	118.00
1	AA	4146	DA	C4-C5-C6	5.66	119.83	117.00
1	AA	4545	DC	N3-C4-N4	5.66	121.96	118.00
1	AA	4833	DA	O4'-C1'-C2'	-5.66	101.37	105.90
1	AA	4929	DA	C4-C5-C6	5.66	119.83	117.00
1	AA	4946	DA	C4-C5-C6	5.66	119.83	117.00
1	AA	5166	DA	C5-C6-N6	-5.66	119.17	123.70
1	AA	6578	DA	C5-C6-N1	-5.66	114.87	117.70
4	A2	28	DA	C5-C6-N6	-5.66	119.17	123.70
11	AB	31	DA	C4-C5-C6	5.66	119.83	117.00
39	Af	28	DA	O4'-C1'-N9	5.66	111.96	108.00
43	Aj	59	DA	C5-C6-N6	-5.66	119.17	123.70
54	Ay	36	DA	C4-C5-C6	5.66	119.83	117.00
85	BU	15	DA	C4-C5-C6	5.66	119.83	117.00
114	C4	18	DA	C4-C5-C6	5.66	119.83	117.00
155	Cs	16	DA	C5-C6-N1	-5.66	114.87	117.70
1	AA	388	DA	C4-C5-C6	5.66	119.83	117.00
1	AA	538	DC	N3-C4-C5	-5.66	119.64	121.90
1	AA	684	DA	C5-C6-N6	-5.66	119.18	123.70
1	AA	687	DA	C4-C5-C6	5.66	119.83	117.00
1	AA	1032	DA	C4-C5-C6	5.66	119.83	117.00
1	AA	1298	DA	C4-C5-C6	5.66	119.83	117.00
1	AA	1299	DC	N3-C4-N4	5.66	121.96	118.00
1	AA	1548	DC	N3-C4-C5	-5.66	119.64	121.90
1	AA	1574	DA	C4-C5-C6	5.66	119.83	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1674	DA	C5-C6-N6	-5.66	119.18	123.70
1	AA	2550	DC	N3-C4-N4	5.66	121.96	118.00
1	AA	3322	DC	N3-C4-C5	-5.66	119.64	121.90
1	AA	3505	DA	O4'-C4'-C3'	-5.66	102.24	104.50
1	AA	3636	DA	C5-C6-N6	-5.66	119.18	123.70
1	AA	5166	DA	C4-C5-C6	5.66	119.83	117.00
1	AA	5255	DC	N3-C4-N4	5.66	121.96	118.00
1	AA	5931	DA	C4-C5-C6	5.66	119.83	117.00
1	AA	7024	DA	C4-C5-C6	5.66	119.83	117.00
4	A2	43	DA	C4-C5-C6	5.66	119.83	117.00
13	AD	20	DA	C5-C6-N6	-5.66	119.18	123.70
30	AU	17	DA	C5-C6-N6	-5.66	119.17	123.70
30	AU	27	DC	N3-C4-N4	5.66	121.96	118.00
46	Am	29	DC	N3-C4-C5	-5.66	119.64	121.90
62	B6	35	DA	C4-C5-C6	5.66	119.83	117.00
70	BF	19	DA	C5-C6-N6	-5.66	119.18	123.70
76	BL	37	DC	N3-C4-N4	5.66	121.96	118.00
83	BS	43	DA	C4-C5-C6	5.66	119.83	117.00
88	BX	24	DA	C4-C5-C6	5.66	119.83	117.00
93	Bc	36	DC	N3-C4-C5	-5.66	119.64	121.90
120	CC	41	DA	C4-C5-C6	5.66	119.83	117.00
128	CK	2	DA	C5-C6-N6	-5.66	119.17	123.70
159	Cw	36	DC	N3-C4-N4	5.66	121.96	118.00
1	AA	937	DG	O4'-C1'-N9	5.65	111.96	108.00
1	AA	1191	DA	C5-C6-N6	-5.65	119.18	123.70
1	AA	1320	DA	C5-C6-N1	-5.65	114.87	117.70
1	AA	3999	DA	C4-C5-C6	5.65	119.83	117.00
1	AA	4251	DA	C5-C6-N6	-5.65	119.18	123.70
1	AA	5536	DA	C5-C6-N6	-5.65	119.18	123.70
4	A2	14	DA	C5-C6-N1	-5.65	114.87	117.70
36	Ab	12	DA	C5-C6-N6	-5.65	119.18	123.70
66	BB	13	DA	C5-C6-N6	-5.65	119.18	123.70
85	BU	37	DA	C5-C6-N6	-5.65	119.18	123.70
119	CB	39	DT	C1'-O4'-C4'	-5.65	104.45	110.10
128	CK	40	DA	C4-C5-C6	5.65	119.83	117.00
142	CY	20	DA	C5-C6-N1	-5.65	114.87	117.70
143	CZ	23	DC	N3-C4-N4	5.65	121.96	118.00
1	AA	35	DC	N3-C4-C5	-5.65	119.64	121.90
1	AA	314	DA	C4-C5-C6	5.65	119.83	117.00
1	AA	2083	DA	C4-C5-C6	5.65	119.83	117.00
1	AA	3099	DA	C5-C6-N1	-5.65	114.87	117.70
1	AA	3104	DA	C5-C6-N6	-5.65	119.18	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3134	DC	N3-C4-N4	5.65	121.96	118.00
1	AA	3644	DC	O4'-C1'-C2'	-5.65	101.38	105.90
1	AA	5410	DC	N3-C4-C5	-5.65	119.64	121.90
1	AA	6110	DC	N3-C4-N4	5.65	121.96	118.00
1	AA	6115	DA	C5-C6-N1	-5.65	114.87	117.70
1	AA	6276	DA	C4-C5-C6	5.65	119.83	117.00
1	AA	6322	DC	N3-C4-C5	-5.65	119.64	121.90
1	AA	6540	DA	C4-C5-C6	5.65	119.83	117.00
1	AA	6607	DC	N3-C4-N4	5.65	121.96	118.00
1	AA	6811	DA	C5-C6-N6	-5.65	119.18	123.70
1	AA	6869	DA	C5-C6-N6	-5.65	119.18	123.70
1	AA	7064	DA	C5-C6-N6	-5.65	119.18	123.70
1	AA	7181	DA	C5-C6-N6	-5.65	119.18	123.70
2	A0	48	DA	C4-C5-C6	5.65	119.83	117.00
15	AF	25	DA	C4-C5-C6	5.65	119.83	117.00
15	AF	31	DA	C5-C6-N6	-5.65	119.18	123.70
34	AY	9	DA	C5-C6-N1	-5.65	114.87	117.70
39	Af	21	DA	C4-C5-C6	5.65	119.83	117.00
43	Aj	61	DA	C4-C5-C6	5.65	119.83	117.00
57	B1	7	DA	C4-C5-C6	5.65	119.83	117.00
57	B1	8	DA	C5-C6-N1	-5.65	114.87	117.70
58	B2	33	DA	C4-C5-C6	5.65	119.83	117.00
59	B3	36	DC	N3-C4-N4	5.65	121.96	118.00
64	B8	5	DC	N3-C4-C5	-5.65	119.64	121.90
69	BE	34	DA	C5-C6-N1	-5.65	114.87	117.70
78	BN	18	DC	N3-C4-C5	-5.65	119.64	121.90
108	Br	37	DC	N3-C4-N4	5.65	121.96	118.00
115	C5	12	DA	C5-C6-N6	-5.65	119.18	123.70
128	CK	23	DT	P-O5'-C5'	-5.65	111.86	120.90
135	CR	14	DA	C5-C6-N6	-5.65	119.18	123.70
139	CV	29	DC	N3-C4-N4	5.65	121.96	118.00
149	Cg	9	DA	C5-C6-N6	-5.65	119.18	123.70
153	Cq	12	DC	N3-C4-N4	5.65	121.96	118.00
1	AA	2239	DA	C5-C6-N6	-5.65	119.18	123.70
1	AA	4396	DA	C5-C6-N1	-5.65	114.88	117.70
1	AA	4665	DA	C5-C6-N6	-5.65	119.18	123.70
1	AA	4860	DA	C5-C6-N6	-5.65	119.18	123.70
1	AA	4893	DC	N3-C4-C5	-5.65	119.64	121.90
1	AA	5380	DC	N3-C4-N4	5.65	121.96	118.00
1	AA	5538	DG	P-O3'-C3'	5.65	126.48	119.70
1	AA	6141	DA	C4-C5-C6	5.65	119.83	117.00
1	AA	6942	DC	N3-C4-C5	-5.65	119.64	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A2	42	DA	C4-C5-C6	5.65	119.83	117.00
8	A6	20	DA	C5-C6-N6	-5.65	119.18	123.70
25	AP	2	DG	O4'-C4'-C3'	-5.65	102.24	104.50
27	AR	28	DA	C4-C5-C6	5.65	119.83	117.00
31	AV	14	DA	C5-C6-N6	-5.65	119.18	123.70
39	Af	23	DA	C5-C6-N6	-5.65	119.18	123.70
42	Ai	11	DA	C4-C5-C6	5.65	119.83	117.00
61	B5	26	DA	C5-C6-N6	-5.65	119.18	123.70
78	BN	52	DA	P-O3'-C3'	5.65	126.48	119.70
83	BS	27	DA	C4-C5-C6	5.65	119.83	117.00
86	BV	35	DC	N3-C4-N4	5.65	121.95	118.00
94	Bd	13	DA	C5-C6-N6	-5.65	119.18	123.70
114	C4	62	DA	C5-C6-N6	-5.65	119.18	123.70
122	CE	8	DA	C4-C5-C6	5.65	119.83	117.00
142	CY	19	DA	C5-C6-N6	-5.65	119.18	123.70
145	Cc	3	DA	O4'-C1'-N9	5.65	111.96	108.00
152	Cp	39	DA	C4-C5-C6	5.65	119.83	117.00
1	AA	1775	DA	C4-C5-C6	5.65	119.82	117.00
1	AA	2898	DA	C4-C5-C6	5.65	119.82	117.00
1	AA	3616	DA	C5-C6-N1	-5.65	114.88	117.70
1	AA	3743	DT	O4'-C1'-N1	5.65	111.95	108.00
1	AA	4825	DG	C5-C6-O6	-5.65	125.21	128.60
1	AA	5798	DA	C5-C6-N6	-5.65	119.18	123.70
1	AA	5858	DC	N3-C4-N4	5.65	121.95	118.00
1	AA	6372	DA	C4-C5-C6	5.65	119.82	117.00
11	AB	3	DC	N3-C4-C5	-5.65	119.64	121.90
41	Ah	25	DA	C5-C6-N6	-5.65	119.18	123.70
75	BK	11	DA	C4-C5-C6	5.65	119.82	117.00
94	Bd	21	DA	C5-C6-N6	-5.65	119.18	123.70
100	Bj	32	DA	C5-C6-N6	-5.65	119.18	123.70
144	Cb	11	DA	C1'-O4'-C4'	-5.65	104.45	110.10
148	Cf	6	DC	N3-C4-N4	5.65	121.95	118.00
1	AA	329	DA	C5-C6-N6	-5.65	119.18	123.70
1	AA	404	DA	C5-C6-N6	-5.65	119.18	123.70
1	AA	573	DA	C5-C6-N6	-5.65	119.18	123.70
1	AA	1615	DA	C5-C6-N6	-5.65	119.18	123.70
1	AA	1675	DA	C4-C5-C6	5.65	119.82	117.00
1	AA	2393	DA	C5-C6-N6	-5.65	119.18	123.70
1	AA	2657	DA	C5-C6-N1	-5.65	114.88	117.70
1	AA	2838	DA	C5-C6-N1	-5.65	114.88	117.70
1	AA	3136	DA	C4-C5-C6	5.65	119.82	117.00
1	AA	4503	DC	N3-C4-N4	5.65	121.95	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	4703	DA	C4-C5-C6	5.65	119.82	117.00
1	AA	4799	DC	N3-C4-C5	-5.65	119.64	121.90
1	AA	5104	DA	C5-C6-N1	-5.65	114.88	117.70
1	AA	6159	DA	C5-C6-N6	-5.65	119.18	123.70
1	AA	7210	DA	C5-C6-N6	-5.65	119.18	123.70
7	A5	5	DA	C5-C6-N1	-5.65	114.88	117.70
24	AO	9	DC	O4'-C1'-N1	5.65	111.95	108.00
26	AQ	37	DA	C4-C5-C6	5.65	119.82	117.00
45	Al	30	DC	N3-C4-N4	5.65	121.95	118.00
50	Au	9	DA	C4-C5-C6	5.65	119.82	117.00
55	Az	9	DA	C5-C6-N6	-5.65	119.18	123.70
60	B4	27	DA	C5-C6-N6	-5.65	119.18	123.70
73	BI	22	DC	N3-C4-C5	-5.65	119.64	121.90
80	BP	46	DA	C5-C6-N6	-5.65	119.18	123.70
95	Be	26	DC	N3-C4-C5	-5.65	119.64	121.90
108	Br	43	DC	N3-C4-N4	5.65	121.95	118.00
109	Bs	18	DA	C5-C6-N6	-5.65	119.18	123.70
115	C5	8	DC	N3-C4-C5	-5.65	119.64	121.90
127	CJ	3	DA	C4-C5-C6	5.65	119.82	117.00
130	CM	31	DA	C4-C5-C6	5.65	119.82	117.00
132	CO	7	DC	O4'-C1'-N1	5.65	111.95	108.00
139	CV	51	DA	C5-C6-N6	-5.65	119.18	123.70
147	Ce	48	DA	C4-C5-C6	5.65	119.82	117.00
148	Cf	29	DA	C5-C6-N6	-5.65	119.18	123.70
151	Ck	39	DA	C4-C5-C6	5.65	119.82	117.00
153	Cq	29	DA	C5-C6-N6	-5.65	119.18	123.70
154	Cr	13	DA	C5-C6-N6	-5.65	119.18	123.70
1	AA	475	DA	C5-C6-N6	-5.65	119.18	123.70
1	AA	1147	DA	C4-C5-C6	5.65	119.82	117.00
1	AA	1268	DA	C4-C5-C6	5.65	119.82	117.00
1	AA	2011	DA	C5-C6-N6	-5.65	119.18	123.70
1	AA	2224	DA	C4-C5-C6	5.65	119.82	117.00
1	AA	2302	DC	N3-C4-N4	5.65	121.95	118.00
1	AA	3948	DA	C5-C6-N6	-5.65	119.18	123.70
1	AA	4942	DA	C5-C6-N6	-5.65	119.18	123.70
1	AA	5739	DA	C4-C5-C6	5.65	119.82	117.00
1	AA	7143	DA	C4-C5-C6	5.65	119.82	117.00
2	A0	55	DA	C5-C6-N6	-5.65	119.18	123.70
34	AY	32	DC	N3-C4-N4	5.65	121.95	118.00
42	Ai	7	DA	C5-C6-N6	-5.65	119.18	123.70
62	B6	9	DA	C5-C6-N6	-5.65	119.18	123.70
80	BP	44	DT	O4'-C4'-C3'	-5.65	102.24	104.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
94	Bd	18	DC	N3-C4-N4	5.65	121.95	118.00
102	Bl	30	DA	C4-C5-C6	5.65	119.82	117.00
102	Bl	46	DA	C4-C5-C6	5.65	119.82	117.00
112	C2	1	DA	C5-C6-N6	-5.65	119.18	123.70
121	CD	44	DA	C5-C6-N6	-5.65	119.18	123.70
126	CI	24	DC	N3-C4-N4	5.65	121.95	118.00
132	CO	9	DA	C5-C6-N6	-5.65	119.18	123.70
150	Ch	17	DC	N3-C4-C5	-5.65	119.64	121.90
1	AA	668	DA	C5-C6-N6	-5.64	119.18	123.70
1	AA	1452	DC	N3-C4-C5	-5.64	119.64	121.90
1	AA	1564	DC	N3-C4-N4	5.64	121.95	118.00
1	AA	1739	DA	C5-C6-N1	-5.64	114.88	117.70
1	AA	1909	DA	C5-C6-N6	-5.64	119.18	123.70
1	AA	2099	DA	C5-C6-N6	-5.64	119.18	123.70
1	AA	2932	DC	N3-C4-N4	5.64	121.95	118.00
1	AA	3245	DT	P-O3'-C3'	5.64	126.47	119.70
1	AA	3247	DA	C5-C6-N6	-5.64	119.19	123.70
1	AA	3324	DA	C5-C6-N1	-5.64	114.88	117.70
1	AA	3338	DC	N3-C4-N4	5.64	121.95	118.00
1	AA	3471	DA	C4-C5-C6	5.64	119.82	117.00
1	AA	3478	DC	N3-C4-N4	5.64	121.95	118.00
1	AA	3517	DC	P-O3'-C3'	5.64	126.47	119.70
1	AA	6262	DC	N3-C4-N4	5.64	121.95	118.00
1	AA	6365	DA	C4-C5-C6	5.64	119.82	117.00
21	AL	27	DA	C5-C6-N1	-5.64	114.88	117.70
28	AS	8	DA	C5-C6-N6	-5.64	119.19	123.70
37	Ac	28	DA	C4-C5-C6	5.64	119.82	117.00
68	BD	10	DA	C5-C6-N6	-5.64	119.18	123.70
73	BI	20	DC	N3-C4-N4	5.64	121.95	118.00
78	BN	57	DC	O4'-C1'-N1	5.64	111.95	108.00
80	BP	58	DC	N3-C4-N4	5.64	121.95	118.00
89	BY	39	DA	C5-C6-N6	-5.64	119.18	123.70
95	Be	33	DA	C5-C6-N6	-5.64	119.19	123.70
102	Bl	28	DA	C5-C6-N6	-5.64	119.19	123.70
109	Bs	18	DA	C4-C5-C6	5.64	119.82	117.00
116	C6	19	DA	C4-C5-C6	5.64	119.82	117.00
138	CU	26	DT	O4'-C1'-N1	5.64	111.95	108.00
143	CZ	21	DA	P-O3'-C3'	5.64	126.47	119.70
156	Ct	5	DA	C4-C5-C6	5.64	119.82	117.00
158	Cv	24	DC	P-O3'-C3'	5.64	126.47	119.70
161	Cy	52	DC	N3-C4-C5	-5.64	119.64	121.90
1	AA	127	DA	C5-C6-N6	-5.64	119.19	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	470	DC	C1'-O4'-C4'	-5.64	104.46	110.10
1	AA	849	DC	N3-C4-C5	-5.64	119.64	121.90
1	AA	1053	DA	O4'-C1'-N9	5.64	111.95	108.00
1	AA	1121	DA	C4-C5-C6	5.64	119.82	117.00
1	AA	1349	DA	C5-C6-N6	-5.64	119.19	123.70
1	AA	1412	DA	C5-C6-N1	-5.64	114.88	117.70
1	AA	2386	DA	C5-C6-N6	-5.64	119.19	123.70
1	AA	2867	DC	N3-C4-N4	5.64	121.95	118.00
1	AA	3666	DA	C5-C6-N6	-5.64	119.19	123.70
1	AA	3847	DC	N3-C4-C5	-5.64	119.64	121.90
1	AA	4235	DA	C4-C5-C6	5.64	119.82	117.00
1	AA	5212	DA	C4-C5-C6	5.64	119.82	117.00
1	AA	5442	DA	C5-C6-N6	-5.64	119.19	123.70
1	AA	5456	DA	C4-C5-C6	5.64	119.82	117.00
1	AA	5734	DA	C5-C6-N1	-5.64	114.88	117.70
1	AA	6878	DA	C5-C6-N6	-5.64	119.19	123.70
1	AA	7000	DG	P-O3'-C3'	5.64	126.47	119.70
1	AA	7125	DT	O4'-C1'-C2'	-5.64	101.39	105.90
2	A0	26	DA	C5-C6-N6	-5.64	119.19	123.70
9	A7	30	DC	N3-C4-N4	5.64	121.95	118.00
9	A7	39	DG	O4'-C1'-N9	5.64	111.95	108.00
15	AF	1	DC	N3-C4-N4	5.64	121.95	118.00
15	AF	32	DA	C5-C6-N6	-5.64	119.19	123.70
18	AI	7	DA	C5-C6-N6	-5.64	119.19	123.70
23	AN	5	DA	C5-C6-N1	-5.64	114.88	117.70
23	AN	36	DC	N3-C4-N4	5.64	121.95	118.00
27	AR	50	DC	N3-C4-C5	-5.64	119.64	121.90
43	Aj	27	DC	N3-C4-C5	-5.64	119.64	121.90
43	Aj	30	DA	C5-C6-N6	-5.64	119.19	123.70
47	An	44	DA	C5-C6-N6	-5.64	119.19	123.70
73	BI	25	DA	C5-C6-N6	-5.64	119.19	123.70
78	BN	20	DA	C5-C6-N6	-5.64	119.19	123.70
108	Br	47	DT	O4'-C1'-N1	5.64	111.95	108.00
112	C2	26	DA	C4-C5-C6	5.64	119.82	117.00
123	CF	2	DC	N3-C4-N4	5.64	121.95	118.00
130	CM	22	DC	N3-C4-N4	5.64	121.95	118.00
142	CY	18	DA	C5-C6-N6	-5.64	119.19	123.70
147	Ce	15	DA	C5-C6-N1	-5.64	114.88	117.70
152	Cp	12	DC	N3-C4-C5	-5.64	119.64	121.90
158	Cv	3	DA	C5-C6-N1	-5.64	114.88	117.70
159	Cw	45	DA	C5-C6-N6	-5.64	119.19	123.70
160	Cx	6	DC	N3-C4-N4	5.64	121.95	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1248	DA	C5-C6-N6	-5.64	119.19	123.70
1	AA	1480	DA	C5-C6-N6	-5.64	119.19	123.70
1	AA	6418	DG	O4'-C1'-N9	5.64	111.95	108.00
4	A2	10	DA	C5-C6-N6	-5.64	119.19	123.70
8	A6	31	DC	O4'-C1'-N1	5.64	111.95	108.00
46	Am	28	DA	C4-C5-C6	5.64	119.82	117.00
69	BE	38	DT	P-O3'-C3'	-5.64	112.93	119.70
106	Bp	45	DA	C4-C5-C6	5.64	119.82	117.00
125	CH	26	DA	C5-C6-N6	-5.64	119.19	123.70
159	Cw	19	DC	N3-C4-C5	-5.64	119.64	121.90
1	AA	135	DA	C5-C6-N6	-5.64	119.19	123.70
1	AA	1574	DA	C5-C6-N1	-5.64	114.88	117.70
1	AA	1722	DA	C4-C5-C6	5.64	119.82	117.00
1	AA	1761	DA	C4-C5-C6	5.64	119.82	117.00
1	AA	2340	DC	N3-C4-N4	5.64	121.95	118.00
1	AA	2438	DA	C5-C6-N6	-5.64	119.19	123.70
1	AA	2718	DA	C5-C6-N6	-5.64	119.19	123.70
1	AA	3037	DA	C4-C5-C6	5.64	119.82	117.00
1	AA	3558	DA	C4-C5-C6	5.64	119.82	117.00
1	AA	3764	DA	C5-C6-N6	-5.64	119.19	123.70
1	AA	4120	DA	C5-C6-N6	-5.64	119.19	123.70
1	AA	4301	DA	C5-C6-N6	-5.64	119.19	123.70
1	AA	4634	DC	N3-C4-N4	5.64	121.95	118.00
1	AA	4703	DA	C5-C6-N6	-5.64	119.19	123.70
1	AA	4833	DA	C4-C5-C6	5.64	119.82	117.00
1	AA	5604	DA	C5-C6-N6	-5.64	119.19	123.70
1	AA	5612	DC	N3-C4-C5	-5.64	119.64	121.90
1	AA	6959	DA	C5-C6-N6	-5.64	119.19	123.70
1	AA	7075	DC	N3-C4-N4	5.64	121.95	118.00
1	AA	7247	DC	N3-C4-N4	5.64	121.95	118.00
2	A0	36	DA	C4-C5-C6	5.64	119.82	117.00
3	A1	16	DA	C4-C5-C6	5.64	119.82	117.00
14	AE	5	DC	N3-C4-N4	5.64	121.95	118.00
18	AI	15	DA	C5-C6-N1	-5.64	114.88	117.70
21	AL	5	DA	C4-C5-C6	5.64	119.82	117.00
39	Af	29	DA	C5-C6-N6	-5.64	119.19	123.70
40	Ag	7	DA	C4-C5-C6	5.64	119.82	117.00
45	Al	8	DC	N3-C4-N4	5.64	121.95	118.00
49	As	13	DC	N3-C4-N4	5.64	121.95	118.00
73	BI	6	DA	C5-C6-N6	-5.64	119.19	123.70
75	BK	14	DA	C4-C5-C6	5.64	119.82	117.00
92	Bb	44	DA	C5-C6-N6	-5.64	119.19	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
109	Bs	34	DA	C4-C5-C6	5.64	119.82	117.00
123	CF	10	DA	C5-C6-N6	-5.64	119.19	123.70
125	CH	48	DA	C5-C6-N6	-5.64	119.19	123.70
134	CQ	18	DC	O4'-C1'-C2'	-5.64	101.39	105.90
142	CY	39	DC	N3-C4-N4	5.64	121.95	118.00
151	Ck	27	DA	C5-C6-N6	-5.64	119.19	123.70
152	Cp	15	DC	N3-C4-N4	5.64	121.95	118.00
159	Cw	2	DA	C4-C5-C6	5.64	119.82	117.00
159	Cw	53	DA	C4-C5-C6	5.64	119.82	117.00
162	Cz	34	DC	N3-C4-N4	5.64	121.95	118.00
1	AA	346	DA	C5-C6-N6	-5.64	119.19	123.70
1	AA	881	DC	N3-C4-N4	5.64	121.95	118.00
1	AA	914	DA	C4-C5-C6	5.64	119.82	117.00
1	AA	1397	DC	N3-C4-N4	5.64	121.95	118.00
1	AA	3034	DC	N3-C4-C5	-5.64	119.64	121.90
1	AA	3172	DC	O4'-C1'-C2'	-5.64	101.39	105.90
1	AA	3541	DA	C4-C5-C6	5.64	119.82	117.00
1	AA	4129	DA	C5-C6-N6	-5.64	119.19	123.70
1	AA	4561	DA	C5-C6-N6	-5.64	119.19	123.70
1	AA	5060	DA	C5-C6-N1	-5.64	114.88	117.70
1	AA	5281	DA	C5-C6-N6	-5.64	119.19	123.70
1	AA	5353	DA	C4-C5-C6	5.64	119.82	117.00
1	AA	5505	DA	C5-C6-N6	-5.64	119.19	123.70
7	A5	11	DA	C4-C5-C6	5.64	119.82	117.00
53	Ax	47	DA	C5-C6-N6	-5.64	119.19	123.70
89	BY	14	DC	N3-C4-N4	5.64	121.95	118.00
138	CU	19	DA	C5-C6-N6	-5.64	119.19	123.70
147	Ce	51	DC	N3-C4-N4	5.64	121.95	118.00
150	Ch	19	DA	C4-C5-C6	5.64	119.82	117.00
1	AA	319	DA	C5-C6-N6	-5.64	119.19	123.70
1	AA	851	DT	O4'-C4'-C3'	-5.64	102.25	104.50
1	AA	2704	DA	C5-C6-N6	-5.64	119.19	123.70
1	AA	3408	DA	C5-C6-N1	-5.64	114.88	117.70
1	AA	3643	DA	C5-C6-N6	-5.64	119.19	123.70
1	AA	3718	DA	C5-C6-N6	-5.64	119.19	123.70
1	AA	3884	DA	C5-C6-N6	-5.64	119.19	123.70
1	AA	3999	DA	C5-C6-N6	-5.64	119.19	123.70
1	AA	4503	DC	N3-C4-C5	-5.64	119.64	121.90
1	AA	5392	DA	C5-C6-N6	-5.64	119.19	123.70
1	AA	6424	DA	C5-C6-N6	-5.64	119.19	123.70
9	A7	33	DC	N3-C4-N4	5.64	121.95	118.00
16	AG	14	DA	C5-C6-N6	-5.64	119.19	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
20	AK	30	DC	N3-C4-C5	-5.64	119.65	121.90
27	AR	60	DA	C5-C6-N6	-5.64	119.19	123.70
32	AW	15	DA	C5-C6-N6	-5.64	119.19	123.70
77	BM	37	DA	C5-C6-N1	-5.64	114.88	117.70
82	BR	19	DA	C5-C6-N6	-5.64	119.19	123.70
104	Bn	38	DA	C4-C5-C6	5.64	119.82	117.00
113	C3	35	DC	N3-C4-N4	5.64	121.94	118.00
149	Cg	28	DA	C5-C6-N6	-5.64	119.19	123.70
1	AA	1234	DA	C5-C6-N6	-5.63	119.19	123.70
1	AA	1547	DC	N3-C4-C5	-5.63	119.65	121.90
1	AA	1764	DA	C5-C6-N6	-5.63	119.19	123.70
1	AA	2355	DA	C5-C6-N6	-5.63	119.19	123.70
1	AA	2807	DA	C4-C5-C6	5.63	119.82	117.00
1	AA	3068	DA	C5-C6-N1	-5.63	114.88	117.70
1	AA	4520	DA	C5-C6-N1	-5.63	114.88	117.70
1	AA	4537	DT	O4'-C1'-N1	5.63	111.94	108.00
1	AA	4992	DA	C5-C6-N6	-5.63	119.19	123.70
1	AA	5601	DC	N3-C4-N4	5.63	121.94	118.00
1	AA	5827	DC	N3-C4-C5	-5.63	119.65	121.90
1	AA	5913	DA	C4-C5-C6	5.63	119.82	117.00
1	AA	6260	DC	N3-C4-C5	-5.63	119.65	121.90
1	AA	6263	DC	N3-C4-C5	-5.63	119.65	121.90
4	A2	2	DA	C4-C5-C6	5.63	119.82	117.00
16	AG	44	DC	O4'-C1'-N1	5.63	111.94	108.00
38	Ad	8	DA	C4-C5-C6	5.63	119.82	117.00
39	Af	29	DA	C5-C6-N1	-5.63	114.88	117.70
40	Ag	10	DG	O4'-C1'-N9	5.63	111.94	108.00
76	BL	31	DC	N3-C4-N4	5.63	121.94	118.00
80	BP	62	DC	N3-C4-C5	-5.63	119.65	121.90
89	BY	22	DA	C5-C6-N6	-5.63	119.19	123.70
99	Bi	50	DA	C4-C5-C6	5.63	119.82	117.00
108	Br	45	DC	N3-C4-N4	5.63	121.94	118.00
115	C5	28	DA	C5-C6-N6	-5.63	119.19	123.70
133	CP	41	DA	C5-C6-N6	-5.63	119.19	123.70
151	Ck	34	DC	N3-C4-C5	-5.63	119.65	121.90
153	Cq	13	DC	N3-C4-N4	5.63	121.94	118.00
1	AA	4770	DA	C5-C6-N6	-5.63	119.19	123.70
1	AA	4890	DA	C5-C6-N1	-5.63	114.88	117.70
1	AA	5728	DA	C5-C6-N6	-5.63	119.19	123.70
1	AA	6343	DA	C5-C6-N1	-5.63	114.88	117.70
4	A2	29	DA	C5-C6-N6	-5.63	119.19	123.70
52	Aw	41	DC	O4'-C1'-C2'	-5.63	101.39	105.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
66	BB	14	DA	C5-C6-N6	-5.63	119.19	123.70
79	BO	30	DC	N3-C4-C5	-5.63	119.65	121.90
91	Ba	29	DA	C5-C6-N6	-5.63	119.19	123.70
112	C2	11	DC	N3-C4-N4	5.63	121.94	118.00
127	CJ	45	DA	C5-C6-N6	-5.63	119.19	123.70
142	CY	7	DA	C4-C5-C6	5.63	119.82	117.00
149	Cg	27	DC	N3-C4-N4	5.63	121.94	118.00
150	Ch	19	DA	P-O3'-C3'	5.63	126.46	119.70
1	AA	326	DA	C5-C6-N6	-5.63	119.19	123.70
1	AA	556	DA	C5-C6-N1	-5.63	114.89	117.70
1	AA	598	DC	N3-C4-N4	5.63	121.94	118.00
1	AA	627	DA	C5-C6-N6	-5.63	119.19	123.70
1	AA	687	DA	C5-C6-N6	-5.63	119.19	123.70
1	AA	1830	DC	N3-C4-N4	5.63	121.94	118.00
1	AA	1855	DA	C5-C6-N6	-5.63	119.19	123.70
1	AA	1903	DG	C1'-O4'-C4'	-5.63	104.47	110.10
1	AA	2218	DA	C5-C6-N6	-5.63	119.19	123.70
1	AA	2427	DA	C4-C5-C6	5.63	119.82	117.00
1	AA	3040	DA	C5-C6-N1	-5.63	114.88	117.70
1	AA	3346	DA	C5-C6-N6	-5.63	119.19	123.70
1	AA	4671	DA	C5-C6-N6	-5.63	119.19	123.70
1	AA	4708	DA	C5-C6-N6	-5.63	119.19	123.70
1	AA	4883	DA	C5-C6-N6	-5.63	119.19	123.70
1	AA	4890	DA	C4-C5-C6	5.63	119.82	117.00
1	AA	4984	DC	N3-C4-N4	5.63	121.94	118.00
1	AA	4992	DA	C5-C6-N1	-5.63	114.88	117.70
1	AA	5643	DA	C5-C6-N6	-5.63	119.19	123.70
1	AA	5969	DA	C4-C5-C6	5.63	119.82	117.00
1	AA	6007	DC	N3-C4-N4	5.63	121.94	118.00
1	AA	6372	DA	C5-C6-N6	-5.63	119.20	123.70
1	AA	6799	DA	C5-C6-N6	-5.63	119.19	123.70
2	A0	15	DA	C5-C6-N1	-5.63	114.88	117.70
7	A5	3	DA	C4-C5-C6	5.63	119.81	117.00
12	AC	11	DA	C5-C6-N1	-5.63	114.88	117.70
24	AO	23	DA	C4-C5-C6	5.63	119.81	117.00
36	Ab	30	DA	C5-C6-N6	-5.63	119.19	123.70
38	Ad	37	DA	C5-C6-N1	-5.63	114.88	117.70
56	B0	11	DA	C5-C6-N6	-5.63	119.19	123.70
58	B2	1	DG	O4'-C1'-N9	5.63	111.94	108.00
80	BP	8	DA	C4-C5-C6	5.63	119.82	117.00
89	BY	38	DA	C5-C6-N6	-5.63	119.19	123.70
106	Bp	13	DC	N3-C4-C5	-5.63	119.65	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
118	C8	7	DC	P-O5'-C5'	5.63	129.91	120.90
118	C8	15	DA	C4-C5-C6	5.63	119.82	117.00
130	CM	54	DC	O4'-C1'-N1	5.63	111.94	108.00
1	AA	152	DT	P-O3'-C3'	5.63	126.46	119.70
1	AA	1750	DA	C4-C5-C6	5.63	119.81	117.00
1	AA	2378	DA	C4-C5-C6	5.63	119.81	117.00
1	AA	2993	DA	C5-C6-N6	-5.63	119.20	123.70
1	AA	3738	DT	O4'-C1'-C2'	-5.63	101.40	105.90
1	AA	5013	DA	C5-C6-N6	-5.63	119.20	123.70
1	AA	5993	DA	C1'-O4'-C4'	-5.63	104.47	110.10
1	AA	6441	DC	N3-C4-C5	-5.63	119.65	121.90
1	AA	7129	DC	N3-C4-N4	5.63	121.94	118.00
18	AI	5	DA	C5-C6-N6	-5.63	119.20	123.70
18	AI	43	DC	N3-C4-N4	5.63	121.94	118.00
20	AK	46	DA	C5-C6-N6	-5.63	119.20	123.70
26	AQ	52	DA	P-O3'-C3'	5.63	126.46	119.70
47	An	4	DC	N3-C4-N4	5.63	121.94	118.00
86	BV	24	DA	O4'-C1'-N9	5.63	111.94	108.00
154	Cr	40	DC	O4'-C1'-N1	5.63	111.94	108.00
1	AA	151	DA	C5-C6-N6	-5.63	119.20	123.70
1	AA	893	DC	N3-C4-N4	5.63	121.94	118.00
1	AA	1516	DA	C4-C5-C6	5.63	119.81	117.00
1	AA	1834	DC	N3-C4-N4	5.63	121.94	118.00
1	AA	2132	DT	O4'-C1'-C2'	-5.63	101.40	105.90
1	AA	2476	DA	C5-C6-N6	-5.63	119.20	123.70
1	AA	2784	DA	C5-C6-N6	-5.63	119.20	123.70
1	AA	4263	DA	C4-C5-C6	5.63	119.81	117.00
1	AA	4356	DA	C4-C5-C6	5.63	119.81	117.00
1	AA	4734	DA	C4-C5-C6	5.63	119.81	117.00
1	AA	5433	DA	C5-C6-N6	-5.63	119.20	123.70
1	AA	6530	DA	C5-C6-N6	-5.63	119.20	123.70
1	AA	6958	DA	C5-C6-N6	-5.63	119.20	123.70
1	AA	7209	DA	C5-C6-N1	-5.63	114.89	117.70
46	Am	2	DA	C5-C6-N6	-5.63	119.20	123.70
51	Av	26	DA	C4-C5-C6	5.63	119.81	117.00
54	Ay	2	DA	C5-C6-N6	-5.63	119.20	123.70
54	Ay	33	DA	C5-C6-N6	-5.63	119.20	123.70
58	B2	3	DA	C5-C6-N1	-5.63	114.89	117.70
64	B8	10	DA	C5-C6-N6	-5.63	119.20	123.70
66	BB	22	DA	C4'-C3'-C2'	-5.63	98.03	103.10
78	BN	46	DA	C5-C6-N6	-5.63	119.20	123.70
84	BT	20	DA	C5-C6-N6	-5.63	119.20	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
87	BW	7	DA	C5-C6-N6	-5.63	119.20	123.70
90	BZ	27	DA	C5-C6-N1	-5.63	114.89	117.70
100	Bj	31	DA	C5-C6-N6	-5.63	119.20	123.70
103	Bm	46	DA	C5-C6-N6	-5.63	119.20	123.70
104	Bn	22	DG	P-O3'-C3'	5.63	126.45	119.70
131	CN	22	DC	N3-C4-N4	5.63	121.94	118.00
138	CU	7	DC	N3-C4-N4	5.63	121.94	118.00
142	CY	13	DA	C5-C6-N6	-5.63	119.20	123.70
156	Ct	14	DA	C4-C5-C6	5.63	119.81	117.00
1	AA	768	DA	C5-C6-N6	-5.63	119.20	123.70
1	AA	1643	DA	O4'-C4'-C3'	-5.63	102.25	104.50
1	AA	1751	DA	O4'-C1'-N9	5.63	111.94	108.00
1	AA	2150	DA	C5-C6-N6	-5.63	119.20	123.70
1	AA	2232	DA	C4-C5-C6	5.63	119.81	117.00
1	AA	2318	DA	C4-C5-C6	5.63	119.81	117.00
1	AA	2364	DA	C4-C5-C6	5.63	119.81	117.00
1	AA	2430	DC	N3-C4-C5	-5.63	119.65	121.90
1	AA	2816	DA	C5-C6-N6	-5.63	119.20	123.70
1	AA	3160	DA	C4-C5-C6	5.63	119.81	117.00
1	AA	3451	DA	C5-C6-N6	-5.63	119.20	123.70
1	AA	3537	DC	N3-C4-N4	5.63	121.94	118.00
1	AA	4161	DA	C4-C5-C6	5.63	119.81	117.00
1	AA	4165	DA	C5-C6-N6	-5.63	119.20	123.70
1	AA	4268	DA	C4-C5-C6	5.63	119.81	117.00
1	AA	4417	DC	N3-C4-N4	5.63	121.94	118.00
1	AA	4487	DA	C4-C5-C6	5.63	119.81	117.00
1	AA	4689	DA	C5-C6-N6	-5.63	119.20	123.70
1	AA	4803	DA	C4-C5-C6	5.63	119.81	117.00
1	AA	5248	DA	C4-C5-C6	5.63	119.81	117.00
1	AA	5839	DA	C4-C5-C6	5.63	119.81	117.00
1	AA	6538	DA	C5-C6-N6	-5.63	119.20	123.70
7	A5	6	DC	N3-C4-C5	-5.63	119.65	121.90
15	AF	19	DA	C5-C6-N6	-5.63	119.20	123.70
23	AN	28	DA	C5-C6-N1	-5.63	114.89	117.70
41	Ah	2	DA	C5-C6-N6	-5.63	119.20	123.70
41	Ah	26	DA	C5-C6-N1	-5.63	114.89	117.70
46	Am	21	DA	C5-C6-N6	-5.63	119.20	123.70
50	Au	42	DA	C5-C6-N6	-5.63	119.20	123.70
61	B5	1	DA	C4-C5-C6	5.63	119.81	117.00
65	B9	3	DA	C4-C5-C6	5.63	119.81	117.00
99	Bi	44	DG	P-O3'-C3'	5.63	126.45	119.70
102	Bl	31	DA	C4-C5-C6	5.63	119.81	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
116	C6	26	DA	C5-C6-N6	-5.63	119.20	123.70
130	CM	10	DA	C5-C6-N6	-5.63	119.20	123.70
139	CV	15	DC	N3-C4-N4	5.63	121.94	118.00
145	Cc	23	DA	C4-C5-C6	5.63	119.81	117.00
154	Cr	10	DT	P-O3'-C3'	5.63	126.45	119.70
161	Cy	2	DA	C5-C6-N6	-5.63	119.20	123.70
1	AA	202	DA	C5-C6-N6	-5.62	119.20	123.70
1	AA	803	DA	C4-C5-C6	5.62	119.81	117.00
1	AA	1009	DA	C5-C6-N6	-5.62	119.20	123.70
1	AA	1553	DC	N3-C4-N4	5.62	121.94	118.00
1	AA	3349	DA	C5-C6-N6	-5.62	119.20	123.70
1	AA	3792	DA	C5-C6-N6	-5.62	119.20	123.70
1	AA	5544	DA	C4-C5-C6	5.62	119.81	117.00
2	A0	37	DA	C5-C6-N6	-5.62	119.20	123.70
6	A4	28	DA	C5-C6-N6	-5.62	119.20	123.70
14	AE	31	DA	C5-C6-N6	-5.62	119.20	123.70
26	AQ	46	DG	O4'-C1'-N9	5.62	111.94	108.00
30	AU	14	DA	C4-C5-C6	5.62	119.81	117.00
38	Ad	2	DA	C5-C6-N6	-5.62	119.20	123.70
45	Al	1	DT	O4'-C1'-N1	5.62	111.94	108.00
59	B3	46	DC	N3-C4-N4	5.62	121.94	118.00
66	BB	32	DA	C5-C6-N6	-5.62	119.20	123.70
74	BJ	5	DA	P-O3'-C3'	5.62	126.45	119.70
115	C5	36	DA	C5-C6-N6	-5.62	119.20	123.70
1	AA	1030	DA	C5-C6-N6	-5.62	119.20	123.70
1	AA	1494	DC	N3-C4-N4	5.62	121.94	118.00
1	AA	1643	DA	C5-C6-N6	-5.62	119.20	123.70
1	AA	3040	DA	C4-C5-C6	5.62	119.81	117.00
1	AA	3361	DC	N3-C4-C5	-5.62	119.65	121.90
1	AA	3456	DA	C5-C6-N6	-5.62	119.20	123.70
1	AA	3513	DC	N3-C4-N4	5.62	121.94	118.00
1	AA	4755	DC	N3-C4-C5	-5.62	119.65	121.90
1	AA	4799	DC	N3-C4-N4	5.62	121.94	118.00
1	AA	5614	DA	C5-C6-N1	-5.62	114.89	117.70
1	AA	6821	DC	N3-C4-N4	5.62	121.94	118.00
1	AA	6914	DA	C5-C6-N1	-5.62	114.89	117.70
1	AA	7185	DC	N3-C4-N4	5.62	121.94	118.00
2	A0	23	DA	C4-C5-C6	5.62	119.81	117.00
3	A1	18	DT	O4'-C1'-N1	5.62	111.94	108.00
11	AB	32	DC	N3-C4-C5	-5.62	119.65	121.90
12	AC	1	DA	C5-C6-N6	-5.62	119.20	123.70
12	AC	32	DA	C5-C6-N1	-5.62	114.89	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	AE	40	DA	C5-C6-N6	-5.62	119.20	123.70
28	AS	37	DA	C5-C6-N6	-5.62	119.20	123.70
31	AV	51	DA	C4-C5-C6	5.62	119.81	117.00
64	B8	14	DC	N3-C4-C5	-5.62	119.65	121.90
67	BC	15	DA	C5-C6-N6	-5.62	119.20	123.70
73	BI	20	DC	N3-C4-C5	-5.62	119.65	121.90
96	Bf	44	DC	N3-C4-N4	5.62	121.94	118.00
97	Bg	13	DA	C5-C6-N1	-5.62	114.89	117.70
106	Bp	10	DC	N3-C4-N4	5.62	121.94	118.00
109	Bs	14	DC	N3-C4-N4	5.62	121.94	118.00
141	CX	7	DA	C5-C6-N6	-5.62	119.20	123.70
141	CX	30	DT	C5'-C4'-C3'	-5.62	103.98	114.10
148	Cf	44	DA	C4-C5-C6	5.62	119.81	117.00
157	Cu	19	DC	N3-C4-N4	5.62	121.94	118.00
158	Cv	37	DA	C5-C6-N6	-5.62	119.20	123.70
1	AA	641	DA	C5-C6-N6	-5.62	119.20	123.70
1	AA	797	DC	N3-C4-C5	-5.62	119.65	121.90
1	AA	804	DA	C4-C5-C6	5.62	119.81	117.00
1	AA	1579	DG	C1'-O4'-C4'	-5.62	104.48	110.10
1	AA	1944	DA	C4-C5-C6	5.62	119.81	117.00
1	AA	3781	DA	C4-C5-C6	5.62	119.81	117.00
1	AA	4346	DA	C4-C5-C6	5.62	119.81	117.00
1	AA	4677	DA	C5-C6-N1	-5.62	114.89	117.70
1	AA	6524	DA	C5-C6-N1	-5.62	114.89	117.70
1	AA	6807	DA	C5-C6-N6	-5.62	119.20	123.70
1	AA	6872	DA	C4-C5-C6	5.62	119.81	117.00
1	AA	6999	DA	C5-C6-N6	-5.62	119.20	123.70
1	AA	7208	DA	C5-C6-N1	-5.62	114.89	117.70
1	AA	7245	DC	N3-C4-N4	5.62	121.94	118.00
16	AG	14	DA	C4-C5-C6	5.62	119.81	117.00
17	AH	7	DA	C5-C6-N6	-5.62	119.20	123.70
41	Ah	3	DA	C4-C5-C6	5.62	119.81	117.00
49	As	36	DA	C4-C5-C6	5.62	119.81	117.00
69	BE	58	DA	C5-C6-N6	-5.62	119.20	123.70
78	BN	57	DC	C6-N1-C1'	-5.62	114.06	120.80
81	BQ	35	DC	O4'-C1'-C2'	-5.62	101.40	105.90
94	Bd	13	DA	C4-C5-C6	5.62	119.81	117.00
101	Bk	40	DC	N3-C4-N4	5.62	121.94	118.00
113	C3	38	DC	N3-C4-N4	5.62	121.94	118.00
115	C5	16	DA	C5-C6-N1	-5.62	114.89	117.70
118	C8	13	DA	C4-C5-C6	5.62	119.81	117.00
134	CQ	22	DA	C5-C6-N6	-5.62	119.20	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
145	Cc	60	DC	O4'-C1'-N1	5.62	111.94	108.00
157	Cu	36	DA	C5-C6-N6	-5.62	119.20	123.70
161	Cy	54	DA	C5-C6-N6	-5.62	119.20	123.70
1	AA	535	DC	N3-C4-N4	5.62	121.93	118.00
1	AA	637	DC	N3-C4-N4	5.62	121.93	118.00
1	AA	1418	DA	O4'-C1'-N9	5.62	111.93	108.00
1	AA	2285	DA	C5-C6-N6	-5.62	119.20	123.70
1	AA	3210	DA	C4-C5-C6	5.62	119.81	117.00
1	AA	4899	DA	C5-C6-N6	-5.62	119.20	123.70
1	AA	5511	DA	C5-C6-N1	-5.62	114.89	117.70
20	AK	55	DC	N3-C4-N4	5.62	121.93	118.00
25	AP	20	DA	C5-C6-N6	-5.62	119.20	123.70
38	Ad	26	DA	C4-C5-C6	5.62	119.81	117.00
54	Ay	12	DA	C5-C6-N6	-5.62	119.20	123.70
69	BE	31	DA	C5-C6-N6	-5.62	119.20	123.70
75	BK	2	DA	C5-C6-N1	-5.62	114.89	117.70
95	Be	24	DA	C4-C5-C6	5.62	119.81	117.00
132	CO	8	DA	C4-C5-C6	5.62	119.81	117.00
158	Cv	20	DA	C4-C5-C6	5.62	119.81	117.00
1	AA	798	DC	N3-C4-N4	5.62	121.93	118.00
1	AA	1193	DC	N3-C4-N4	5.62	121.93	118.00
1	AA	1235	DA	C1'-O4'-C4'	-5.62	104.48	110.10
1	AA	1787	DA	C4-C5-C6	5.62	119.81	117.00
1	AA	2335	DA	C4-C5-C6	5.62	119.81	117.00
1	AA	2472	DA	C5-C6-N6	-5.62	119.20	123.70
1	AA	3979	DA	O4'-C4'-C3'	-5.62	102.25	104.50
1	AA	4234	DA	C4-C5-C6	5.62	119.81	117.00
1	AA	4807	DC	N3-C4-N4	5.62	121.93	118.00
1	AA	5247	DA	C4-C5-C6	5.62	119.81	117.00
1	AA	5868	DC	N3-C4-N4	5.62	121.93	118.00
1	AA	6171	DA	C4-C5-C6	5.62	119.81	117.00
1	AA	6586	DA	C5-C6-N6	-5.62	119.20	123.70
1	AA	6636	DA	C5-C6-N1	-5.62	114.89	117.70
1	AA	6730	DA	C5-C6-N1	-5.62	114.89	117.70
1	AA	6994	DA	C5-C6-N6	-5.62	119.20	123.70
8	A6	21	DA	C5-C6-N6	-5.62	119.21	123.70
26	AQ	51	DA	C4-C5-C6	5.62	119.81	117.00
50	Au	20	DA	C4-C5-C6	5.62	119.81	117.00
72	BH	34	DC	N3-C4-N4	5.62	121.93	118.00
74	BJ	41	DA	C4-C5-C6	5.62	119.81	117.00
95	Be	46	DA	C4-C5-C6	5.62	119.81	117.00
110	C0	18	DA	C5-C6-N6	-5.62	119.20	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
119	CB	35	DA	C4-C5-C6	5.62	119.81	117.00
125	CH	15	DA	C5-C6-N6	-5.62	119.20	123.70
134	CQ	30	DA	C4-C5-C6	5.62	119.81	117.00
149	Cg	44	DA	P-O3'-C3'	5.62	126.44	119.70
155	Cs	44	DA	C5-C6-N6	-5.62	119.20	123.70
1	AA	676	DC	N3-C4-C5	-5.62	119.65	121.90
1	AA	2319	DT	C1'-O4'-C4'	-5.62	104.48	110.10
1	AA	4968	DC	N3-C4-N4	5.62	121.93	118.00
1	AA	6080	DA	O4'-C1'-C2'	-5.62	101.41	105.90
1	AA	6776	DC	N3-C4-C5	-5.62	119.65	121.90
1	AA	7003	DC	N3-C4-N4	5.62	121.93	118.00
1	AA	7174	DC	N3-C4-C5	-5.62	119.65	121.90
43	Aj	24	DA	C4-C5-C6	5.62	119.81	117.00
43	Aj	46	DA	C5-C6-N6	-5.62	119.21	123.70
70	BF	5	DA	C5-C6-N1	-5.62	114.89	117.70
82	BR	1	DA	C5-C6-N6	-5.62	119.21	123.70
82	BR	38	DA	C5-C6-N6	-5.62	119.21	123.70
100	Bj	32	DA	C4-C5-C6	5.62	119.81	117.00
102	Bl	38	DA	C5-C6-N6	-5.62	119.21	123.70
106	Bp	23	DA	C5-C6-N6	-5.62	119.21	123.70
133	CP	18	DC	N3-C4-C5	-5.62	119.65	121.90
143	CZ	44	DA	C5-C6-N6	-5.62	119.21	123.70
146	Cd	10	DA	C5-C6-N6	-5.62	119.21	123.70
157	Cu	33	DA	C5-C6-N6	-5.62	119.21	123.70
161	Cy	28	DC	N3-C4-N4	5.62	121.93	118.00
1	AA	96	DC	N3-C4-C5	-5.62	119.65	121.90
1	AA	286	DC	N3-C4-C5	-5.62	119.65	121.90
1	AA	478	DA	C5-C6-N6	-5.62	119.21	123.70
1	AA	1596	DC	N3-C4-C5	-5.62	119.65	121.90
1	AA	2015	DA	C5-C6-N6	-5.62	119.21	123.70
1	AA	2097	DA	C4-C5-C6	5.62	119.81	117.00
1	AA	2634	DC	N3-C4-N4	5.62	121.93	118.00
1	AA	4251	DA	C4-C5-C6	5.62	119.81	117.00
1	AA	4761	DA	C4-C5-C6	5.62	119.81	117.00
1	AA	4808	DA	C5-C6-N6	-5.62	119.21	123.70
1	AA	4812	DA	C5-C6-N6	-5.62	119.21	123.70
1	AA	5231	DA	C5-C6-N1	-5.62	114.89	117.70
1	AA	5931	DA	C5-C6-N6	-5.62	119.21	123.70
1	AA	6517	DA	C5-C6-N6	-5.62	119.21	123.70
1	AA	6537	DA	C4-C5-C6	5.62	119.81	117.00
1	AA	7033	DG	O4'-C1'-N9	5.62	111.93	108.00
1	AA	7122	DC	N3-C4-N4	5.62	121.93	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	7205	DA	C4-C5-C6	5.62	119.81	117.00
4	A2	1	DA	C5-C6-N6	-5.62	119.21	123.70
5	A3	3	DA	C5-C6-N6	-5.62	119.21	123.70
13	AD	39	DA	C5-C6-N6	-5.62	119.21	123.70
26	AQ	28	DC	N3-C4-N4	5.62	121.93	118.00
35	AZ	22	DT	O4'-C1'-N1	5.62	111.93	108.00
37	Ac	22	DA	C5-C6-N6	-5.62	119.21	123.70
39	Af	39	DA	C5-C6-N6	-5.62	119.21	123.70
42	Ai	45	DA	O4'-C1'-N9	5.62	111.93	108.00
51	Av	25	DA	C5-C6-N6	-5.62	119.21	123.70
77	BM	47	DA	C5-C6-N6	-5.62	119.21	123.70
78	BN	11	DC	N3-C4-N4	5.62	121.93	118.00
87	BW	12	DC	N3-C4-C5	-5.62	119.65	121.90
88	BX	35	DA	C5-C6-N6	-5.62	119.21	123.70
90	BZ	4	DA	C5-C6-N6	-5.62	119.21	123.70
93	Bc	1	DC	N3-C4-N4	5.62	121.93	118.00
114	C4	10	DA	C5-C6-N6	-5.62	119.21	123.70
124	CG	7	DA	C4-C5-C6	5.62	119.81	117.00
136	CS	43	DA	C5-C6-N6	-5.62	119.21	123.70
137	CT	41	DC	N3-C4-C5	-5.62	119.65	121.90
150	Ch	3	DA	C5-C6-N6	-5.62	119.21	123.70
1	AA	379	DA	C5-C6-N6	-5.61	119.21	123.70
1	AA	1126	DC	N3-C4-C5	-5.61	119.66	121.90
1	AA	1724	DA	C5-C6-N6	-5.61	119.21	123.70
1	AA	2312	DA	C4-C5-C6	5.61	119.81	117.00
1	AA	2836	DC	N3-C4-N4	5.61	121.93	118.00
1	AA	3080	DG	O4'-C1'-C2'	-5.61	101.41	105.90
1	AA	4006	DA	C5-C6-N6	-5.61	119.21	123.70
1	AA	4937	DC	O4'-C1'-C2'	-5.61	101.41	105.90
1	AA	5609	DA	C5-C6-N6	-5.61	119.21	123.70
1	AA	5715	DA	C4-C5-C6	5.61	119.81	117.00
1	AA	5738	DA	C4-C5-C6	5.61	119.81	117.00
1	AA	5872	DA	P-O3'-C3'	5.61	126.44	119.70
1	AA	6636	DA	C4-C5-C6	5.61	119.81	117.00
1	AA	7036	DT	O4'-C1'-N1	5.61	111.93	108.00
1	AA	7196	DC	N3-C4-C5	-5.61	119.66	121.90
12	AC	27	DA	C5-C6-N1	-5.61	114.89	117.70
14	AE	1	DC	N3-C4-N4	5.61	121.93	118.00
18	AI	36	DA	C4-C5-C6	5.61	119.81	117.00
18	AI	39	DA	C4-C5-C6	5.61	119.81	117.00
24	AO	40	DA	C5-C6-N1	-5.61	114.89	117.70
26	AQ	45	DA	C4-C5-C6	5.61	119.81	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	AW	24	DA	C5-C6-N1	-5.61	114.89	117.70
38	Ad	23	DC	N3-C4-N4	5.61	121.93	118.00
40	Ag	3	DC	N3-C4-C5	-5.61	119.66	121.90
44	Ak	29	DA	C5-C6-N6	-5.61	119.21	123.70
52	Aw	6	DA	C5-C6-N6	-5.61	119.21	123.70
72	BH	18	DA	C5-C6-N1	-5.61	114.89	117.70
74	BJ	33	DA	C4-C5-C6	5.61	119.81	117.00
77	BM	44	DA	C5-C6-N1	-5.61	114.89	117.70
90	BZ	42	DA	C5-C6-N6	-5.61	119.21	123.70
92	Bb	60	DC	O4'-C1'-C2'	-5.61	101.41	105.90
111	C1	11	DA	C5-C6-N1	-5.61	114.89	117.70
115	C5	2	DA	C5-C6-N6	-5.61	119.21	123.70
128	CK	26	DC	N3-C4-C5	-5.61	119.65	121.90
130	CM	31	DA	C5-C6-N1	-5.61	114.89	117.70
133	CP	24	DA	C5-C6-N6	-5.61	119.21	123.70
141	CX	47	DA	C4-C5-C6	5.61	119.81	117.00
143	CZ	27	DA	C5-C6-N6	-5.61	119.21	123.70
146	Cd	29	DA	C5-C6-N6	-5.61	119.21	123.70
149	Cg	28	DA	C4-C5-C6	5.61	119.81	117.00
156	Ct	17	DA	C4-C5-C6	5.61	119.81	117.00
157	Cu	51	DA	C4-C5-C6	5.61	119.81	117.00
1	AA	40	DT	O4'-C1'-C2'	-5.61	101.41	105.90
1	AA	257	DA	C4-C5-C6	5.61	119.81	117.00
1	AA	709	DA	C4-C5-C6	5.61	119.81	117.00
1	AA	1343	DA	C5-C6-N6	-5.61	119.21	123.70
1	AA	2228	DC	N3-C4-N4	5.61	121.93	118.00
1	AA	2660	DC	N3-C4-N4	5.61	121.93	118.00
1	AA	2929	DA	C4-C5-C6	5.61	119.81	117.00
1	AA	2950	DC	N3-C4-N4	5.61	121.93	118.00
1	AA	5274	DA	C5-C6-N6	-5.61	119.21	123.70
1	AA	5718	DA	C5-C6-N6	-5.61	119.21	123.70
1	AA	6209	DA	C5-C6-N6	-5.61	119.21	123.70
2	A0	55	DA	C4-C5-C6	5.61	119.81	117.00
16	AG	10	DC	O4'-C1'-C2'	-5.61	101.41	105.90
52	Aw	31	DA	C5-C6-N1	-5.61	114.89	117.70
64	B8	16	DC	N3-C4-C5	-5.61	119.66	121.90
73	BI	13	DA	C5-C6-N6	-5.61	119.21	123.70
93	Bc	44	DC	N3-C4-N4	5.61	121.93	118.00
99	Bi	7	DA	C5-C6-N6	-5.61	119.21	123.70
106	Bp	7	DA	C5-C6-N6	-5.61	119.21	123.70
110	C0	38	DA	C4-C5-C6	5.61	119.81	117.00
133	CP	32	DA	C5-C6-N6	-5.61	119.21	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
135	CR	20	DA	C5-C6-N6	-5.61	119.21	123.70
1	AA	32	DA	C5-C6-N1	-5.61	114.89	117.70
1	AA	469	DA	C5-C6-N6	-5.61	119.21	123.70
1	AA	657	DA	C5-C6-N6	-5.61	119.21	123.70
1	AA	1200	DA	O4'-C1'-N9	5.61	111.93	108.00
1	AA	1230	DC	N3-C4-N4	5.61	121.93	118.00
1	AA	1454	DC	N3-C4-N4	5.61	121.93	118.00
1	AA	1991	DA	C5-C6-N1	-5.61	114.89	117.70
1	AA	2332	DC	N3-C4-N4	5.61	121.93	118.00
1	AA	2338	DA	C5-C6-N6	-5.61	119.21	123.70
1	AA	2662	DA	C4-C5-C6	5.61	119.81	117.00
1	AA	2902	DC	N3-C4-C5	-5.61	119.66	121.90
1	AA	2989	DA	C5-C6-N6	-5.61	119.21	123.70
1	AA	3504	DA	C4-C5-C6	5.61	119.81	117.00
1	AA	3670	DC	N3-C4-N4	5.61	121.93	118.00
1	AA	3955	DC	N3-C4-C5	-5.61	119.66	121.90
1	AA	4815	DC	N3-C4-N4	5.61	121.93	118.00
1	AA	6088	DC	N3-C4-N4	5.61	121.93	118.00
1	AA	6808	DA	O4'-C1'-N9	5.61	111.93	108.00
1	AA	7051	DC	N3-C4-C5	-5.61	119.66	121.90
1	AA	7189	DA	C5-C6-N1	-5.61	114.89	117.70
5	A3	34	DA	P-O3'-C3'	5.61	126.43	119.70
22	AM	16	DA	C5-C6-N1	-5.61	114.89	117.70
31	AV	36	DA	C4-C5-C6	5.61	119.81	117.00
44	Ak	21	DT	P-O5'-C5'	-5.61	111.92	120.90
94	Bd	7	DC	N3-C4-N4	5.61	121.93	118.00
100	Bj	25	DC	N3-C4-C5	-5.61	119.66	121.90
100	Bj	41	DC	N3-C4-N4	5.61	121.93	118.00
101	Bk	42	DA	C5-C6-N6	-5.61	119.21	123.70
113	C3	36	DA	C4-C5-C6	5.61	119.81	117.00
131	CN	41	DA	C5-C6-N6	-5.61	119.21	123.70
144	Cb	34	DA	C5-C6-N1	-5.61	114.89	117.70
149	Cg	40	DA	C4-C5-C6	5.61	119.81	117.00
156	Ct	24	DA	C5-C6-N6	-5.61	119.21	123.70
1	AA	107	DA	C5-C6-N6	-5.61	119.21	123.70
1	AA	1679	DC	N3-C4-N4	5.61	121.93	118.00
1	AA	2221	DC	N3-C4-C5	-5.61	119.66	121.90
1	AA	3521	DT	O4'-C1'-C2'	-5.61	101.41	105.90
1	AA	5148	DC	N3-C4-N4	5.61	121.93	118.00
1	AA	6300	DA	C4-C5-C6	5.61	119.81	117.00
15	AF	26	DA	C5-C6-N6	-5.61	119.21	123.70
38	Ad	39	DC	N3-C4-N4	5.61	121.93	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
60	B4	12	DA	C5-C6-N6	-5.61	119.21	123.70
66	BB	23	DA	C4-C5-C6	5.61	119.80	117.00
75	BK	41	DA	C5-C6-N6	-5.61	119.21	123.70
89	BY	29	DA	C5-C6-N6	-5.61	119.21	123.70
105	Bo	61	DA	C4-C5-C6	5.61	119.80	117.00
116	C6	33	DA	C5-C6-N6	-5.61	119.21	123.70
116	C6	40	DC	N3-C4-C5	-5.61	119.66	121.90
127	CJ	50	DA	C5-C6-N1	-5.61	114.90	117.70
143	CZ	39	DA	C4-C5-C6	5.61	119.80	117.00
1	AA	63	DC	N3-C4-C5	-5.61	119.66	121.90
1	AA	72	DA	C5-C6-N6	-5.61	119.21	123.70
1	AA	339	DC	N3-C4-N4	5.61	121.93	118.00
1	AA	637	DC	N3-C4-C5	-5.61	119.66	121.90
1	AA	738	DA	O4'-C1'-N9	5.61	111.93	108.00
1	AA	799	DC	N3-C4-C5	-5.61	119.66	121.90
1	AA	1611	DA	C1'-O4'-C4'	-5.61	104.49	110.10
1	AA	1656	DA	C4-C5-C6	5.61	119.80	117.00
1	AA	1690	DA	C4-C5-C6	5.61	119.80	117.00
1	AA	1855	DA	C4-C5-C6	5.61	119.80	117.00
1	AA	1922	DC	N3-C4-N4	5.61	121.92	118.00
1	AA	3373	DG	P-O3'-C3'	5.61	126.43	119.70
1	AA	3519	DC	N3-C4-N4	5.61	121.92	118.00
1	AA	3911	DC	N3-C4-N4	5.61	121.92	118.00
1	AA	4650	DC	N3-C4-N4	5.61	121.92	118.00
1	AA	5214	DA	C4-C5-C6	5.61	119.80	117.00
1	AA	5447	DA	C5-C6-N6	-5.61	119.21	123.70
1	AA	5637	DA	C4-C5-C6	5.61	119.80	117.00
1	AA	6023	DA	C5-C6-N1	-5.61	114.90	117.70
1	AA	6169	DA	C5-C6-N6	-5.61	119.21	123.70
1	AA	6719	DC	N3-C4-C5	-5.61	119.66	121.90
1	AA	6875	DA	C4-C5-C6	5.61	119.80	117.00
13	AD	1	DG	O4'-C1'-C2'	-5.61	101.41	105.90
20	AK	35	DA	C4-C5-C6	5.61	119.80	117.00
26	AQ	44	DA	C5-C6-N6	-5.61	119.21	123.70
28	AS	38	DA	C5-C6-N1	-5.61	114.90	117.70
57	B1	32	DA	C5-C6-N6	-5.61	119.21	123.70
60	B4	7	DA	C4-C5-C6	5.61	119.80	117.00
64	B8	30	DA	C5-C6-N6	-5.61	119.21	123.70
70	BF	20	DC	N3-C4-N4	5.61	121.93	118.00
78	BN	61	DC	N3-C4-C5	-5.61	119.66	121.90
79	BO	24	DA	C4-C5-C6	5.61	119.80	117.00
92	Bb	4	DA	C5-C6-N6	-5.61	119.22	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
100	Bj	37	DA	P-O3'-C3'	5.61	126.43	119.70
120	CC	44	DA	C5-C6-N6	-5.61	119.22	123.70
122	CE	4	DA	C5-C6-N6	-5.61	119.21	123.70
123	CF	23	DA	C5-C6-N6	-5.61	119.21	123.70
132	CO	40	DA	C5-C6-N1	-5.61	114.90	117.70
162	Cz	3	DA	C5-C6-N6	-5.61	119.22	123.70
1	AA	476	DA	C4-C5-C6	5.61	119.80	117.00
1	AA	1547	DC	N3-C4-N4	5.61	121.92	118.00
1	AA	1576	DA	C5-C6-N6	-5.61	119.22	123.70
1	AA	1700	DC	N3-C4-N4	5.61	121.92	118.00
1	AA	1791	DA	C5-C6-N6	-5.61	119.22	123.70
1	AA	2087	DC	O4'-C1'-N1	5.61	111.92	108.00
1	AA	2517	DC	N3-C4-N4	5.61	121.92	118.00
1	AA	3068	DA	C4-C5-C6	5.61	119.80	117.00
1	AA	4138	DA	C4-C5-C6	5.61	119.80	117.00
1	AA	5113	DC	N3-C4-N4	5.61	121.92	118.00
1	AA	5607	DC	N3-C4-N4	5.61	121.92	118.00
1	AA	6395	DC	N3-C4-C5	-5.61	119.66	121.90
1	AA	6510	DC	N3-C4-N4	5.61	121.92	118.00
1	AA	6853	DC	N3-C4-C5	-5.61	119.66	121.90
5	A3	6	DA	C4-C5-C6	5.61	119.80	117.00
13	AD	12	DC	N3-C4-N4	5.61	121.92	118.00
17	AH	15	DC	N3-C4-N4	5.61	121.92	118.00
24	AO	14	DC	N3-C4-C5	-5.61	119.66	121.90
36	Ab	29	DA	C4-C5-C6	5.61	119.80	117.00
40	Ag	5	DC	N3-C4-C5	-5.61	119.66	121.90
45	Al	10	DA	C5-C6-N6	-5.61	119.22	123.70
59	B3	45	DC	N3-C4-N4	5.61	121.92	118.00
76	BL	48	DA	C4-C5-C6	5.61	119.80	117.00
80	BP	23	DA	C5-C6-N6	-5.61	119.22	123.70
80	BP	40	DC	N3-C4-N4	5.61	121.92	118.00
90	BZ	41	DA	C5-C6-N6	-5.61	119.22	123.70
90	BZ	59	DG	P-O3'-C3'	5.61	126.43	119.70
92	Bb	43	DA	C5-C6-N6	-5.61	119.22	123.70
94	Bd	42	DC	N3-C4-N4	5.61	121.92	118.00
115	C5	36	DA	C4-C5-C6	5.61	119.80	117.00
142	CY	2	DA	C5-C6-N6	-5.61	119.22	123.70
147	Ce	23	DA	C5-C6-N1	-5.61	114.90	117.70
149	Cg	13	DA	C5-C6-N6	-5.61	119.22	123.70
159	Cw	33	DA	C1'-O4'-C4'	-5.61	104.49	110.10
1	AA	762	DA	C5-C6-N6	-5.60	119.22	123.70
1	AA	1526	DC	N3-C4-N4	5.60	121.92	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1636	DC	N3-C4-N4	5.60	121.92	118.00
1	AA	2337	DA	C5-C6-N6	-5.60	119.22	123.70
1	AA	2499	DA	C1'-O4'-C4'	-5.60	104.50	110.10
1	AA	2639	DA	C4-C5-C6	5.60	119.80	117.00
1	AA	5060	DA	C5-C6-N6	-5.60	119.22	123.70
1	AA	5718	DA	C4-C5-C6	5.60	119.80	117.00
1	AA	6313	DC	N3-C4-N4	5.60	121.92	118.00
1	AA	6657	DA	C5-C6-N6	-5.60	119.22	123.70
12	AC	13	DA	P-O3'-C3'	5.60	126.42	119.70
32	AW	46	DA	C4-C5-C6	5.60	119.80	117.00
37	Ac	8	DA	C4-C5-C6	5.60	119.80	117.00
60	B4	10	DA	C4-C5-C6	5.60	119.80	117.00
109	Bs	49	DA	C5-C6-N6	-5.60	119.22	123.70
112	C2	3	DA	C5-C6-N1	-5.60	114.90	117.70
134	CQ	21	DC	N3-C4-C5	-5.60	119.66	121.90
135	CR	31	DA	C5-C6-N1	-5.60	114.90	117.70
135	CR	45	DA	C5-C6-N6	-5.60	119.22	123.70
139	CV	25	DA	C5-C6-N6	-5.60	119.22	123.70
154	Cr	3	DA	C5-C6-N1	-5.60	114.90	117.70
159	Cw	10	DA	C5-C6-N6	-5.60	119.22	123.70
1	AA	1605	DA	C5-C6-N1	-5.60	114.90	117.70
1	AA	2000	DA	C5-C6-N6	-5.60	119.22	123.70
1	AA	2407	DC	N3-C4-N4	5.60	121.92	118.00
1	AA	4162	DA	C5-C6-N6	-5.60	119.22	123.70
1	AA	4403	DC	N3-C4-N4	5.60	121.92	118.00
1	AA	4460	DA	C5-C6-N1	-5.60	114.90	117.70
1	AA	4465	DC	N3-C4-N4	5.60	121.92	118.00
1	AA	4560	DA	C5-C6-N6	-5.60	119.22	123.70
1	AA	4906	DA	C5-C6-N6	-5.60	119.22	123.70
1	AA	5242	DT	P-O3'-C3'	5.60	126.42	119.70
1	AA	5831	DA	C5-C6-N6	-5.60	119.22	123.70
1	AA	6109	DC	N3-C4-N4	5.60	121.92	118.00
1	AA	6802	DC	N3-C4-N4	5.60	121.92	118.00
1	AA	7175	DC	N3-C4-N4	5.60	121.92	118.00
1	AA	7177	DA	C5-C6-N6	-5.60	119.22	123.70
15	AF	31	DA	C4-C5-C6	5.60	119.80	117.00
38	Ad	26	DA	C5-C6-N1	-5.60	114.90	117.70
39	Af	39	DA	C4-C5-C6	5.60	119.80	117.00
61	B5	33	DC	N3-C4-N4	5.60	121.92	118.00
77	BM	23	DC	N3-C4-C5	-5.60	119.66	121.90
86	BV	3	DA	C5-C6-N6	-5.60	119.22	123.70
88	BX	31	DA	C4-C5-C6	5.60	119.80	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
91	Ba	44	DC	O4'-C1'-C2'	-5.60	101.42	105.90
99	Bi	34	DA	C5-C6-N6	-5.60	119.22	123.70
108	Br	38	DA	C5-C6-N6	-5.60	119.22	123.70
110	C0	4	DA	C4-C5-C6	5.60	119.80	117.00
115	C5	10	DA	C5-C6-N6	-5.60	119.22	123.70
116	C6	4	DA	C5-C6-N6	-5.60	119.22	123.70
132	CO	5	DA	C4-C5-C6	5.60	119.80	117.00
132	CO	22	DT	O4'-C1'-C2'	-5.60	101.42	105.90
145	Cc	48	DA	C5-C6-N6	-5.60	119.22	123.70
146	Cd	14	DC	N3-C4-N4	5.60	121.92	118.00
152	Cp	30	DC	C1'-O4'-C4'	-5.60	104.50	110.10
162	Cz	11	DA	C5-C6-N6	-5.60	119.22	123.70
1	AA	257	DA	C5-C6-N6	-5.60	119.22	123.70
1	AA	4078	DA	C5-C6-N6	-5.60	119.22	123.70
1	AA	4233	DA	C4-C5-C6	5.60	119.80	117.00
1	AA	5107	DA	C4-C5-C6	5.60	119.80	117.00
1	AA	6017	DA	C4-C5-C6	5.60	119.80	117.00
1	AA	6537	DA	C5-C6-N6	-5.60	119.22	123.70
10	A8	10	DA	O4'-C1'-N9	5.60	111.92	108.00
11	AB	27	DA	C4-C5-C6	5.60	119.80	117.00
13	AD	28	DC	N3-C4-C5	-5.60	119.66	121.90
34	AY	17	DA	C4-C5-C6	5.60	119.80	117.00
68	BD	20	DA	C5-C6-N6	-5.60	119.22	123.70
109	Bs	44	DC	N3-C4-C5	-5.60	119.66	121.90
118	C8	4	DA	C5-C6-N6	-5.60	119.22	123.70
130	CM	37	DA	C5-C6-N1	-5.60	114.90	117.70
146	Cd	18	DA	C5-C6-N6	-5.60	119.22	123.70
148	Cf	26	DA	C5-C6-N6	-5.60	119.22	123.70
1	AA	144	DA	C5-C6-N6	-5.60	119.22	123.70
1	AA	555	DC	N3-C4-N4	5.60	121.92	118.00
1	AA	1712	DA	C4-C5-C6	5.60	119.80	117.00
1	AA	2611	DC	N3-C4-N4	5.60	121.92	118.00
1	AA	3203	DC	N3-C4-N4	5.60	121.92	118.00
1	AA	3507	DC	N3-C4-N4	5.60	121.92	118.00
1	AA	3875	DC	N3-C4-C5	-5.60	119.66	121.90
1	AA	4194	DC	O4'-C1'-C2'	-5.60	101.42	105.90
1	AA	4346	DA	C5-C6-N1	-5.60	114.90	117.70
1	AA	4636	DC	N3-C4-N4	5.60	121.92	118.00
1	AA	4638	DC	N3-C4-N4	5.60	121.92	118.00
1	AA	4878	DA	C5-C6-N6	-5.60	119.22	123.70
1	AA	5670	DA	P-O3'-C3'	5.60	126.42	119.70
1	AA	5706	DA	C5-C6-N6	-5.60	119.22	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5967	DA	C4-C5-C6	5.60	119.80	117.00
1	AA	6330	DG	O4'-C1'-N9	5.60	111.92	108.00
1	AA	7013	DA	C5-C6-N6	-5.60	119.22	123.70
5	A3	12	DA	C4-C5-C6	5.60	119.80	117.00
6	A4	29	DA	C5-C6-N6	-5.60	119.22	123.70
10	A8	12	DC	N3-C4-N4	5.60	121.92	118.00
24	AO	42	DA	P-O5'-C5'	-5.60	111.94	120.90
55	Az	45	DA	C5-C6-N6	-5.60	119.22	123.70
73	BI	11	DA	C5-C6-N6	-5.60	119.22	123.70
86	BV	16	DC	N3-C4-C5	-5.60	119.66	121.90
86	BV	23	DA	C5-C6-N6	-5.60	119.22	123.70
90	BZ	37	DC	N3-C4-N4	5.60	121.92	118.00
104	Bn	16	DA	C5-C6-N6	-5.60	119.22	123.70
114	C4	52	DC	N3-C4-N4	5.60	121.92	118.00
130	CM	50	DA	C5-C6-N6	-5.60	119.22	123.70
135	CR	23	DA	C5-C6-N6	-5.60	119.22	123.70
135	CR	27	DA	C5-C6-N6	-5.60	119.22	123.70
1	AA	365	DA	C5-C6-N1	-5.60	114.90	117.70
1	AA	1579	DG	O4'-C1'-N9	5.60	111.92	108.00
1	AA	1720	DC	N3-C4-N4	5.60	121.92	118.00
1	AA	1831	DG	O4'-C1'-C2'	-5.60	101.42	105.90
1	AA	3032	DA	C5-C6-N6	-5.60	119.22	123.70
1	AA	3313	DC	O4'-C1'-C2'	-5.60	101.42	105.90
1	AA	3338	DC	O4'-C1'-C2'	-5.60	101.42	105.90
1	AA	3940	DA	C4-C5-C6	5.60	119.80	117.00
1	AA	4554	DG	O4'-C1'-N9	5.60	111.92	108.00
1	AA	4849	DG	O4'-C4'-C3'	-5.60	102.26	104.50
1	AA	5511	DA	C4-C5-C6	5.60	119.80	117.00
1	AA	5746	DA	C5-C6-N1	-5.60	114.90	117.70
1	AA	6574	DC	N3-C4-N4	5.60	121.92	118.00
1	AA	6990	DA	O4'-C1'-C2'	-5.60	101.42	105.90
6	A4	35	DA	C5-C6-N6	-5.60	119.22	123.70
15	AF	40	DC	N3-C4-N4	5.60	121.92	118.00
17	AH	47	DA	C4-C5-C6	5.60	119.80	117.00
18	AI	3	DA	C4-C5-C6	5.60	119.80	117.00
35	AZ	27	DC	N3-C4-N4	5.60	121.92	118.00
48	Ao	27	DA	C4-C5-C6	5.60	119.80	117.00
49	As	46	DT	O4'-C1'-N1	5.60	111.92	108.00
73	BI	14	DA	C5-C6-N6	-5.60	119.22	123.70
75	BK	34	DA	C4-C5-C6	5.60	119.80	117.00
87	BW	53	DA	C5-C6-N6	-5.60	119.22	123.70
101	Bk	3	DC	N3-C4-C5	-5.60	119.66	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
114	C4	4	DA	C5-C6-N6	-5.60	119.22	123.70
114	C4	15	DC	N3-C4-N4	5.60	121.92	118.00
135	CR	21	DC	N3-C4-N4	5.60	121.92	118.00
138	CU	27	DA	O4'-C1'-N9	5.60	111.92	108.00
142	CY	13	DA	C4-C5-C6	5.60	119.80	117.00
143	CZ	35	DA	C4-C5-C6	5.60	119.80	117.00
147	Ce	44	DA	C5-C6-N6	-5.60	119.22	123.70
157	Cu	38	DC	N3-C4-N4	5.60	121.92	118.00
1	AA	582	DA	C5-C6-N6	-5.60	119.22	123.70
1	AA	2161	DC	N3-C4-N4	5.60	121.92	118.00
1	AA	2623	DA	C5-C6-N1	-5.60	114.90	117.70
1	AA	4367	DA	C1'-O4'-C4'	-5.60	104.50	110.10
1	AA	4618	DC	N3-C4-N4	5.60	121.92	118.00
1	AA	4915	DC	N3-C4-C5	-5.60	119.66	121.90
1	AA	5323	DA	C5-C6-N6	-5.60	119.22	123.70
1	AA	6069	DA	C4-C5-C6	5.60	119.80	117.00
1	AA	6086	DC	N3-C4-N4	5.60	121.92	118.00
1	AA	6714	DA	C5-C6-N1	-5.60	114.90	117.70
13	AD	3	DA	C5-C6-N6	-5.60	119.22	123.70
15	AF	16	DA	C5-C6-N6	-5.60	119.22	123.70
26	AQ	47	DG	O4'-C1'-N9	5.60	111.92	108.00
31	AV	25	DA	C4-C5-C6	5.60	119.80	117.00
43	Aj	3	DA	C5-C6-N1	-5.60	114.90	117.70
43	Aj	58	DA	C5-C6-N6	-5.60	119.22	123.70
44	Ak	5	DA	O4'-C1'-N9	5.60	111.92	108.00
47	An	45	DA	C5-C6-N6	-5.60	119.22	123.70
66	BB	1	DA	C5-C6-N1	-5.60	114.90	117.70
81	BQ	42	DC	N3-C4-C5	-5.60	119.66	121.90
90	BZ	6	DC	N3-C4-C5	-5.60	119.66	121.90
161	Cy	30	DA	C5-C6-N1	-5.60	114.90	117.70
1	AA	239	DC	N3-C4-N4	5.59	121.92	118.00
1	AA	962	DA	C5-C6-N6	-5.59	119.22	123.70
1	AA	1181	DA	C4-C5-C6	5.59	119.80	117.00
1	AA	1525	DA	C5-C6-N6	-5.59	119.22	123.70
1	AA	2098	DA	C5-C6-N6	-5.59	119.22	123.70
1	AA	2446	DA	C5-C6-N6	-5.59	119.22	123.70
1	AA	2647	DA	C4-C5-C6	5.59	119.80	117.00
1	AA	3462	DC	N3-C4-N4	5.59	121.92	118.00
1	AA	4421	DC	N3-C4-C5	-5.59	119.66	121.90
1	AA	5558	DG	O4'-C1'-C2'	-5.59	101.42	105.90
1	AA	5596	DA	C5-C6-N6	-5.59	119.22	123.70
1	AA	6352	DG	O4'-C4'-C3'	-5.59	102.26	104.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6356	DA	C5-C6-N6	-5.59	119.22	123.70
1	AA	7019	DG	O4'-C1'-C2'	-5.59	101.42	105.90
5	A3	4	DA	C4-C5-C6	5.59	119.80	117.00
21	AL	44	DA	C5-C6-N6	-5.59	119.22	123.70
25	AP	11	DA	C5-C6-N6	-5.59	119.22	123.70
28	AS	15	DA	C5-C6-N6	-5.59	119.22	123.70
33	AX	44	DA	C4-C5-C6	5.59	119.80	117.00
39	Af	13	DA	C4-C5-C6	5.59	119.80	117.00
46	Am	11	DA	C5-C6-N6	-5.59	119.22	123.70
49	As	41	DA	C5-C6-N6	-5.59	119.22	123.70
59	B3	22	DT	O4'-C1'-C2'	-5.59	101.42	105.90
64	B8	6	DA	C5-C6-N6	-5.59	119.22	123.70
71	BG	37	DA	C4-C5-C6	5.59	119.80	117.00
73	BI	13	DA	C4-C5-C6	5.59	119.80	117.00
87	BW	12	DC	N3-C4-N4	5.59	121.92	118.00
103	Bm	19	DT	O4'-C1'-N1	5.59	111.92	108.00
107	Bq	3	DG	O4'-C1'-N9	5.59	111.92	108.00
119	CB	15	DA	C5-C6-N6	-5.59	119.22	123.70
132	CO	36	DA	C5-C6-N1	-5.59	114.90	117.70
135	CR	19	DA	C4-C5-C6	5.59	119.80	117.00
137	CT	12	DA	C5-C6-N6	-5.59	119.22	123.70
143	CZ	21	DA	C5-C6-N6	-5.59	119.22	123.70
1	AA	1331	DG	C1'-O4'-C4'	-5.59	104.51	110.10
1	AA	1768	DA	C4-C5-C6	5.59	119.80	117.00
1	AA	2335	DA	C5-C6-N6	-5.59	119.23	123.70
1	AA	5355	DT	C1'-O4'-C4'	-5.59	104.51	110.10
1	AA	6193	DA	C5-C6-N6	-5.59	119.22	123.70
1	AA	6517	DA	C4-C5-C6	5.59	119.80	117.00
1	AA	6880	DA	C5-C6-N6	-5.59	119.22	123.70
5	A3	4	DA	C5-C6-N6	-5.59	119.22	123.70
8	A6	17	DA	C4-C5-C6	5.59	119.80	117.00
11	AB	21	DC	N3-C4-N4	5.59	121.92	118.00
19	AJ	50	DA	C5-C6-N6	-5.59	119.23	123.70
21	AL	39	DC	N3-C4-N4	5.59	121.92	118.00
30	AU	6	DC	N3-C4-N4	5.59	121.92	118.00
35	AZ	39	DC	N3-C4-N4	5.59	121.92	118.00
41	Ah	19	DC	N3-C4-C5	-5.59	119.66	121.90
53	Ax	29	DA	C4-C5-C6	5.59	119.80	117.00
77	BM	44	DA	C5-C6-N6	-5.59	119.22	123.70
150	Ch	19	DA	C5-C6-N1	-5.59	114.90	117.70
158	Cv	12	DC	N3-C4-N4	5.59	121.92	118.00
1	AA	8	DC	N3-C4-C5	-5.59	119.66	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	359	DA	C5-C6-N1	-5.59	114.90	117.70
1	AA	997	DC	N3-C4-C5	-5.59	119.66	121.90
1	AA	2171	DC	N3-C4-N4	5.59	121.91	118.00
1	AA	2706	DC	N3-C4-C5	-5.59	119.66	121.90
1	AA	3160	DA	C5-C6-N6	-5.59	119.23	123.70
1	AA	3255	DC	N3-C4-N4	5.59	121.91	118.00
1	AA	3505	DA	C5-C6-N6	-5.59	119.23	123.70
1	AA	3634	DA	C4-C5-C6	5.59	119.80	117.00
1	AA	4023	DA	C4-C5-C6	5.59	119.80	117.00
1	AA	5160	DA	C5-C6-N6	-5.59	119.23	123.70
1	AA	5301	DA	C4-C5-C6	5.59	119.80	117.00
1	AA	6551	DC	N3-C4-C5	-5.59	119.66	121.90
1	AA	6616	DA	C5-C6-N6	-5.59	119.23	123.70
6	A4	43	DA	C5-C6-N6	-5.59	119.23	123.70
7	A5	42	DC	N3-C4-C5	-5.59	119.66	121.90
14	AE	4	DA	C5-C6-N6	-5.59	119.23	123.70
16	AG	9	DA	C4-C5-C6	5.59	119.80	117.00
16	AG	21	DA	C5-C6-N6	-5.59	119.23	123.70
23	AN	11	DA	C5-C6-N6	-5.59	119.23	123.70
23	AN	41	DA	C5-C6-N6	-5.59	119.23	123.70
25	AP	20	DA	C4-C5-C6	5.59	119.80	117.00
28	AS	41	DA	C5-C6-N6	-5.59	119.23	123.70
58	B2	18	DC	N3-C4-N4	5.59	121.92	118.00
59	B3	1	DT	O4'-C1'-C2'	-5.59	101.43	105.90
62	B6	27	DA	C4-C5-C6	5.59	119.80	117.00
71	BG	44	DC	O4'-C1'-N1	5.59	111.91	108.00
72	BH	39	DA	C5-C6-N6	-5.59	119.23	123.70
78	BN	38	DA	C5-C6-N1	-5.59	114.90	117.70
85	BU	10	DA	C5-C6-N6	-5.59	119.23	123.70
89	BY	39	DA	C4-C5-C6	5.59	119.80	117.00
91	Ba	12	DA	C5-C6-N6	-5.59	119.23	123.70
92	Bb	14	DA	C4-C5-C6	5.59	119.80	117.00
99	Bi	41	DC	N3-C4-C5	-5.59	119.66	121.90
112	C2	41	DC	N3-C4-C5	-5.59	119.66	121.90
119	CB	16	DA	C5-C6-N6	-5.59	119.23	123.70
120	CC	25	DA	C4-C5-C6	5.59	119.80	117.00
127	CJ	50	DA	C4-C5-C6	5.59	119.80	117.00
132	CO	28	DA	C5-C6-N1	-5.59	114.90	117.70
142	CY	40	DA	C5-C6-N6	-5.59	119.23	123.70
144	Cb	37	DA	C5-C6-N6	-5.59	119.23	123.70
145	Cc	21	DA	C5-C6-N6	-5.59	119.23	123.70
1	AA	633	DC	N3-C4-N4	5.59	121.91	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	822	DA	C5-C6-N6	-5.59	119.23	123.70
1	AA	1291	DC	O4'-C4'-C3'	-5.59	102.27	104.50
1	AA	1339	DT	O4'-C1'-N1	5.59	111.91	108.00
1	AA	1727	DA	C5-C6-N6	-5.59	119.23	123.70
1	AA	2297	DC	N3-C4-C5	-5.59	119.66	121.90
1	AA	2807	DA	C5-C6-N6	-5.59	119.23	123.70
1	AA	2886	DC	N3-C4-C5	-5.59	119.66	121.90
1	AA	3183	DA	C5-C6-N1	-5.59	114.91	117.70
1	AA	3559	DA	C5-C6-N6	-5.59	119.23	123.70
1	AA	3880	DA	C4-C5-C6	5.59	119.80	117.00
1	AA	3987	DC	N3-C4-C5	-5.59	119.66	121.90
1	AA	4610	DG	O4'-C1'-C2'	-5.59	101.43	105.90
1	AA	6216	DA	C5-C6-N6	-5.59	119.23	123.70
1	AA	6335	DA	C5-C6-N1	-5.59	114.91	117.70
1	AA	6988	DA	C5-C6-N6	-5.59	119.23	123.70
9	A7	30	DC	N3-C4-C5	-5.59	119.66	121.90
14	AE	42	DC	N3-C4-N4	5.59	121.91	118.00
16	AG	16	DC	N3-C4-N4	5.59	121.91	118.00
20	AK	3	DA	C5-C6-N1	-5.59	114.91	117.70
33	AX	17	DA	C5-C6-N6	-5.59	119.23	123.70
44	Ak	11	DA	C5-C6-N1	-5.59	114.91	117.70
46	Am	33	DA	C4-C5-C6	5.59	119.80	117.00
51	Av	35	DC	N3-C4-N4	5.59	121.91	118.00
64	B8	9	DA	C5-C6-N1	-5.59	114.91	117.70
66	BB	4	DC	N3-C4-N4	5.59	121.91	118.00
71	BG	39	DA	C4-C5-C6	5.59	119.80	117.00
106	Bp	11	DC	N3-C4-N4	5.59	121.91	118.00
110	C0	15	DT	O4'-C1'-C2'	-5.59	101.43	105.90
117	C7	37	DA	C5-C6-N6	-5.59	119.23	123.70
144	Cb	25	DC	N3-C4-C5	-5.59	119.67	121.90
147	Ce	10	DT	C1'-O4'-C4'	-5.59	104.51	110.10
148	Cf	4	DA	P-O3'-C3'	5.59	126.41	119.70
155	Cs	16	DA	C4-C5-C6	5.59	119.80	117.00
1	AA	1060	DG	P-O3'-C3'	5.59	126.41	119.70
1	AA	1243	DG	C1'-O4'-C4'	-5.59	104.51	110.10
1	AA	1432	DA	C5-C6-N1	-5.59	114.91	117.70
1	AA	2180	DC	N3-C4-N4	5.59	121.91	118.00
1	AA	3408	DA	C5-C6-N6	-5.59	119.23	123.70
1	AA	3668	DA	C5-C6-N6	-5.59	119.23	123.70
1	AA	4761	DA	C5-C6-N6	-5.59	119.23	123.70
1	AA	5271	DC	N3-C4-C5	-5.59	119.67	121.90
1	AA	5305	DA	C5-C6-N1	-5.59	114.91	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5868	DC	O4'-C1'-N1	5.59	111.91	108.00
1	AA	6127	DA	C5-C6-N6	-5.59	119.23	123.70
1	AA	7215	DA	C5-C6-N6	-5.59	119.23	123.70
9	A7	42	DA	C4-C5-C6	5.59	119.79	117.00
30	AU	44	DA	C5-C6-N6	-5.59	119.23	123.70
32	AW	26	DA	C5-C6-N6	-5.59	119.23	123.70
39	Af	24	DA	C5-C6-N6	-5.59	119.23	123.70
40	Ag	22	DC	P-O3'-C3'	-5.59	113.00	119.70
92	Bb	14	DA	C5-C6-N6	-5.59	119.23	123.70
126	CI	11	DA	C5-C6-N6	-5.59	119.23	123.70
1	AA	111	DA	C5-C6-N6	-5.59	119.23	123.70
1	AA	145	DA	C4-C5-C6	5.59	119.79	117.00
1	AA	1499	DA	C4-C5-C6	5.59	119.79	117.00
1	AA	2054	DC	N3-C4-N4	5.59	121.91	118.00
1	AA	2202	DA	C5-C6-N6	-5.59	119.23	123.70
1	AA	3502	DC	N3-C4-N4	5.59	121.91	118.00
1	AA	3794	DT	O4'-C1'-N1	5.59	111.91	108.00
12	AC	4	DC	N3-C4-N4	5.59	121.91	118.00
27	AR	39	DC	O4'-C1'-C2'	-5.59	101.43	105.90
28	AS	29	DC	N3-C4-N4	5.59	121.91	118.00
29	AT	12	DA	C5-C6-N6	-5.59	119.23	123.70
29	AT	22	DA	C5-C6-N1	-5.59	114.91	117.70
36	Ab	17	DA	C5-C6-N6	-5.59	119.23	123.70
39	Af	12	DC	N3-C4-N4	5.59	121.91	118.00
76	BL	46	DC	C4'-C3'-C2'	-5.59	98.07	103.10
90	BZ	10	DC	O4'-C1'-C2'	-5.59	101.43	105.90
103	Bm	28	DA	C5-C6-N6	-5.59	119.23	123.70
106	Bp	12	DC	N3-C4-N4	5.59	121.91	118.00
110	C0	37	DA	C5-C6-N6	-5.59	119.23	123.70
120	CC	13	DC	C4'-C3'-C2'	-5.59	98.07	103.10
126	CI	38	DA	C5-C6-N6	-5.59	119.23	123.70
127	CJ	2	DA	C4-C5-C6	5.59	119.79	117.00
132	CO	36	DA	C4-C5-C6	5.59	119.79	117.00
162	Cz	14	DA	C4-C5-C6	5.59	119.79	117.00
1	AA	284	DC	N3-C4-C5	-5.58	119.67	121.90
1	AA	571	DA	C5-C6-N6	-5.58	119.23	123.70
1	AA	738	DA	C4-C5-C6	5.58	119.79	117.00
1	AA	1685	DA	C5-C6-N6	-5.58	119.23	123.70
1	AA	1908	DA	C5-C6-N6	-5.58	119.23	123.70
1	AA	2589	DA	C5-C6-N6	-5.58	119.23	123.70
1	AA	2841	DC	N3-C4-N4	5.58	121.91	118.00
1	AA	3184	DC	N3-C4-N4	5.58	121.91	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	4165	DA	C4-C5-C6	5.58	119.79	117.00
1	AA	4270	DA	O4'-C1'-N9	5.58	111.91	108.00
1	AA	4427	DA	C4-C5-C6	5.58	119.79	117.00
1	AA	4457	DA	O4'-C1'-N9	5.58	111.91	108.00
1	AA	4644	DA	C4-C5-C6	5.58	119.79	117.00
1	AA	5126	DA	C4-C5-C6	5.58	119.79	117.00
1	AA	5890	DA	C5-C6-N6	-5.58	119.23	123.70
17	AH	33	DA	C5-C6-N6	-5.58	119.23	123.70
34	AY	29	DC	N3-C4-N4	5.58	121.91	118.00
104	Bn	38	DA	C5-C6-N6	-5.58	119.23	123.70
133	CP	47	DC	N3-C4-N4	5.58	121.91	118.00
146	Cd	6	DA	C5-C6-N6	-5.58	119.23	123.70
1	AA	590	DA	C5-C6-N1	-5.58	114.91	117.70
1	AA	777	DA	C5-C6-N6	-5.58	119.23	123.70
1	AA	990	DA	C5-C6-N6	-5.58	119.23	123.70
1	AA	1222	DC	N3-C4-C5	-5.58	119.67	121.90
1	AA	1342	DA	C5-C6-N6	-5.58	119.23	123.70
1	AA	1598	DA	C5-C6-N6	-5.58	119.23	123.70
1	AA	2125	DC	N3-C4-N4	5.58	121.91	118.00
1	AA	2449	DA	C5-C6-N6	-5.58	119.23	123.70
1	AA	2929	DA	O4'-C1'-C2'	-5.58	101.43	105.90
1	AA	3153	DA	C5-C6-N1	-5.58	114.91	117.70
1	AA	3967	DA	C5-C6-N6	-5.58	119.23	123.70
1	AA	4092	DA	C4-C5-C6	5.58	119.79	117.00
1	AA	4117	DC	N3-C4-N4	5.58	121.91	118.00
1	AA	5035	DA	C5-C6-N6	-5.58	119.23	123.70
1	AA	5314	DA	C5-C6-N1	-5.58	114.91	117.70
1	AA	5331	DC	N3-C4-N4	5.58	121.91	118.00
1	AA	5673	DC	N3-C4-C5	-5.58	119.67	121.90
1	AA	6068	DA	C4-C5-C6	5.58	119.79	117.00
2	A0	13	DA	C5-C6-N6	-5.58	119.23	123.70
15	AF	28	DC	N3-C4-N4	5.58	121.91	118.00
35	AZ	35	DA	C5-C6-N6	-5.58	119.23	123.70
46	Am	6	DC	N3-C4-C5	-5.58	119.67	121.90
48	Ao	4	DA	C5-C6-N6	-5.58	119.23	123.70
61	B5	25	DA	C5-C6-N6	-5.58	119.23	123.70
95	Be	25	DC	N3-C4-C5	-5.58	119.67	121.90
117	C7	8	DA	C4-C5-C6	5.58	119.79	117.00
119	CB	46	DC	N3-C4-N4	5.58	121.91	118.00
127	CJ	30	DA	C5-C6-N6	-5.58	119.23	123.70
127	CJ	48	DA	C5-C6-N6	-5.58	119.23	123.70
127	CJ	56	DA	C5-C6-N1	-5.58	114.91	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
129	CL	14	DA	O4'-C1'-C2'	-5.58	101.43	105.90
135	CR	40	DA	C5-C6-N6	-5.58	119.23	123.70
138	CU	10	DA	C4-C5-C6	5.58	119.79	117.00
141	CX	41	DA	C4-C5-C6	5.58	119.79	117.00
144	Cb	19	DA	C5-C6-N6	-5.58	119.23	123.70
148	Cf	40	DA	C5-C6-N6	-5.58	119.23	123.70
1	AA	66	DA	C5-C6-N6	-5.58	119.23	123.70
1	AA	282	DA	C5-C6-N6	-5.58	119.23	123.70
1	AA	1123	DA	C4-C5-C6	5.58	119.79	117.00
1	AA	1235	DA	O4'-C4'-C3'	-5.58	102.27	104.50
1	AA	1495	DC	N3-C4-C5	-5.58	119.67	121.90
1	AA	1506	DA	C5-C6-N6	-5.58	119.23	123.70
1	AA	1724	DA	C4-C5-C6	5.58	119.79	117.00
1	AA	1805	DA	C5-C6-N1	-5.58	114.91	117.70
1	AA	2416	DC	N3-C4-N4	5.58	121.91	118.00
1	AA	3549	DA	C5-C6-N6	-5.58	119.23	123.70
1	AA	4784	DA	C5-C6-N6	-5.58	119.23	123.70
1	AA	4954	DA	C1'-O4'-C4'	-5.58	104.52	110.10
1	AA	7200	DA	C5-C6-N6	-5.58	119.23	123.70
2	A0	11	DA	C4-C5-C6	5.58	119.79	117.00
3	A1	16	DA	C5-C6-N6	-5.58	119.23	123.70
7	A5	23	DA	C5-C6-N6	-5.58	119.23	123.70
16	AG	37	DA	C4-C5-C6	5.58	119.79	117.00
40	Ag	9	DA	O4'-C1'-N9	5.58	111.91	108.00
46	Am	17	DA	C4-C5-C6	5.58	119.79	117.00
54	Ay	36	DA	C5-C6-N6	-5.58	119.23	123.70
70	BF	31	DA	C4-C5-C6	5.58	119.79	117.00
75	BK	40	DA	C4-C5-C6	5.58	119.79	117.00
78	BN	20	DA	C4-C5-C6	5.58	119.79	117.00
78	BN	39	DC	O4'-C1'-C2'	-5.58	101.43	105.90
85	BU	16	DA	C5-C6-N6	-5.58	119.23	123.70
85	BU	32	DA	C5-C6-N6	-5.58	119.23	123.70
88	BX	18	DA	C4-C5-C6	5.58	119.79	117.00
98	Bh	2	DA	C5-C6-N6	-5.58	119.23	123.70
98	Bh	19	DC	N3-C4-C5	-5.58	119.67	121.90
121	CD	27	DA	C4-C5-C6	5.58	119.79	117.00
136	CS	13	DA	C4-C5-C6	5.58	119.79	117.00
159	Cw	4	DC	O4'-C1'-N1	5.58	111.91	108.00
1	AA	2595	DC	N3-C4-N4	5.58	121.91	118.00
1	AA	3410	DA	C5-C6-N1	-5.58	114.91	117.70
1	AA	3827	DC	N3-C4-C5	-5.58	119.67	121.90
1	AA	4457	DA	C5-C6-N1	-5.58	114.91	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5232	DC	N3-C4-N4	5.58	121.91	118.00
1	AA	6146	DA	C5-C6-N6	-5.58	119.24	123.70
1	AA	6266	DA	C5-C6-N6	-5.58	119.24	123.70
4	A2	15	DA	C5-C6-N1	-5.58	114.91	117.70
11	AB	18	DA	C5-C6-N6	-5.58	119.24	123.70
53	Ax	8	DA	C5-C6-N1	-5.58	114.91	117.70
93	Bc	15	DC	N3-C4-N4	5.58	121.91	118.00
134	CQ	15	DA	C5-C6-N6	-5.58	119.24	123.70
147	Ce	50	DC	N3-C4-N4	5.58	121.91	118.00
155	Cs	42	DC	N3-C4-N4	5.58	121.91	118.00
156	Ct	16	DT	O4'-C1'-N1	5.58	111.91	108.00
156	Ct	40	DA	C4-C5-C6	5.58	119.79	117.00
1	AA	451	DA	C5-C6-N1	-5.58	114.91	117.70
1	AA	1919	DC	N3-C4-C5	-5.58	119.67	121.90
1	AA	2225	DA	C5-C6-N6	-5.58	119.24	123.70
1	AA	2562	DA	C5-C6-N6	-5.58	119.24	123.70
1	AA	3210	DA	C5-C6-N6	-5.58	119.24	123.70
1	AA	3462	DC	N3-C4-C5	-5.58	119.67	121.90
1	AA	3490	DA	C5-C6-N1	-5.58	114.91	117.70
1	AA	4008	DC	N3-C4-C5	-5.58	119.67	121.90
1	AA	5014	DA	C5-C6-N1	-5.58	114.91	117.70
1	AA	5649	DA	C5-C6-N6	-5.58	119.24	123.70
1	AA	5715	DA	C5-C6-N1	-5.58	114.91	117.70
1	AA	6150	DC	O4'-C1'-N1	5.58	111.91	108.00
1	AA	6796	DA	C4-C5-C6	5.58	119.79	117.00
2	A0	49	DA	C4-C5-C6	5.58	119.79	117.00
4	A2	34	DA	C4-C5-C6	5.58	119.79	117.00
26	AQ	51	DA	C5-C6-N6	-5.58	119.24	123.70
27	AR	31	DA	C5-C6-N6	-5.58	119.24	123.70
35	AZ	10	DA	C5-C6-N6	-5.58	119.24	123.70
38	Ad	37	DA	C4-C5-C6	5.58	119.79	117.00
50	Au	15	DC	N3-C4-N4	5.58	121.91	118.00
50	Au	28	DA	P-O3'-C3'	5.58	126.39	119.70
51	Av	23	DA	C4-C5-C6	5.58	119.79	117.00
52	Aw	43	DC	N3-C4-N4	5.58	121.91	118.00
61	B5	23	DA	C4-C5-C6	5.58	119.79	117.00
62	B6	23	DC	N3-C4-C5	-5.58	119.67	121.90
67	BC	30	DC	N3-C4-N4	5.58	121.91	118.00
81	BQ	19	DA	C4-C5-C6	5.58	119.79	117.00
81	BQ	36	DC	N3-C4-N4	5.58	121.91	118.00
138	CU	1	DA	C4-C5-C6	5.58	119.79	117.00
143	CZ	29	DA	C4-C5-C6	5.58	119.79	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
156	Ct	32	DC	N3-C4-N4	5.58	121.90	118.00
1	AA	608	DC	N3-C4-N4	5.58	121.90	118.00
1	AA	4491	DC	N3-C4-N4	5.58	121.90	118.00
1	AA	4728	DA	C5-C6-N6	-5.58	119.24	123.70
1	AA	4801	DA	C4-C5-C6	5.58	119.79	117.00
1	AA	5852	DA	C5-C6-N6	-5.58	119.24	123.70
1	AA	6573	DT	O4'-C4'-C3'	-5.58	102.27	104.50
22	AM	45	DA	C5-C6-N6	-5.58	119.24	123.70
25	AP	27	DA	C4-C5-C6	5.58	119.79	117.00
29	AT	17	DC	N3-C4-C5	-5.58	119.67	121.90
52	Aw	26	DC	N3-C4-N4	5.58	121.90	118.00
56	B0	10	DG	C1'-O4'-C4'	-5.58	104.52	110.10
102	Bl	46	DA	C5-C6-N6	-5.58	119.24	123.70
1	AA	466	DC	N3-C4-N4	5.58	121.90	118.00
1	AA	2448	DC	N3-C4-N4	5.58	121.90	118.00
1	AA	2477	DA	C4-C5-C6	5.58	119.79	117.00
1	AA	3654	DC	N3-C4-N4	5.58	121.90	118.00
1	AA	4564	DA	C4-C5-C6	5.58	119.79	117.00
1	AA	5031	DA	C4-C5-C6	5.58	119.79	117.00
1	AA	5151	DC	N3-C4-N4	5.58	121.90	118.00
1	AA	7007	DC	N3-C4-C5	-5.58	119.67	121.90
9	A7	16	DA	C5-C6-N6	-5.58	119.24	123.70
9	A7	31	DC	N3-C4-N4	5.58	121.90	118.00
16	AG	15	DA	C5-C6-N6	-5.58	119.24	123.70
20	AK	6	DT	P-O5'-C5'	-5.58	111.98	120.90
20	AK	40	DA	O4'-C1'-N9	5.58	111.90	108.00
30	AU	21	DA	C5-C6-N6	-5.58	119.24	123.70
33	AX	42	DA	C4-C5-C6	5.58	119.79	117.00
36	Ab	7	DA	C5-C6-N6	-5.58	119.24	123.70
55	Az	33	DA	C5-C6-N6	-5.58	119.24	123.70
55	Az	42	DC	N3-C4-N4	5.58	121.90	118.00
69	BE	68	DA	C5-C6-N6	-5.58	119.24	123.70
86	BV	7	DA	C5-C6-N6	-5.58	119.24	123.70
95	Be	46	DA	C5-C6-N6	-5.58	119.24	123.70
101	Bk	4	DC	N3-C4-N4	5.58	121.90	118.00
112	C2	4	DA	C5-C6-N6	-5.58	119.24	123.70
119	CB	41	DC	N3-C4-N4	5.58	121.90	118.00
133	CP	4	DA	C5-C6-N1	-5.58	114.91	117.70
148	Cf	47	DA	C5-C6-N6	-5.58	119.24	123.70
152	Cp	10	DA	C5-C6-N6	-5.58	119.24	123.70
155	Cs	39	DA	C4-C5-C6	5.58	119.79	117.00
157	Cu	34	DA	C5-C6-N6	-5.58	119.24	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	259	DC	N3-C4-N4	5.57	121.90	118.00
1	AA	1110	DA	C5-C6-N6	-5.57	119.24	123.70
1	AA	1418	DA	C4-C5-C6	5.57	119.79	117.00
1	AA	1434	DA	C5-C6-N6	-5.57	119.24	123.70
1	AA	1709	DA	C5-C6-N6	-5.57	119.24	123.70
1	AA	1946	DA	C5-C6-N6	-5.57	119.24	123.70
1	AA	3301	DA	C4-C5-C6	5.57	119.79	117.00
1	AA	4572	DA	C5-C6-N6	-5.57	119.24	123.70
1	AA	5304	DA	C5-C6-N6	-5.57	119.24	123.70
1	AA	5812	DA	P-O5'-C5'	5.57	129.82	120.90
1	AA	6142	DA	C4-C5-C6	5.57	119.79	117.00
9	A7	24	DC	N3-C4-N4	5.57	121.90	118.00
9	A7	33	DC	N3-C4-C5	-5.57	119.67	121.90
18	AI	37	DA	O4'-C1'-N9	5.57	111.90	108.00
18	AI	44	DA	C4-C5-C6	5.57	119.79	117.00
24	AO	12	DC	N3-C4-N4	5.57	121.90	118.00
25	AP	21	DC	N3-C4-N4	5.57	121.90	118.00
39	Af	47	DA	C5-C6-N6	-5.57	119.24	123.70
63	B7	19	DC	N3-C4-C5	-5.57	119.67	121.90
69	BE	27	DC	N3-C4-N4	5.57	121.90	118.00
82	BR	56	DT	P-O3'-C3'	5.57	126.39	119.70
86	BV	24	DA	O4'-C1'-C2'	-5.57	101.44	105.90
95	Be	18	DC	N3-C4-N4	5.57	121.90	118.00
105	Bo	29	DC	O4'-C1'-C2'	-5.57	101.44	105.90
115	C5	5	DA	C5-C6-N6	-5.57	119.24	123.70
120	CC	41	DA	C5-C6-N1	-5.57	114.91	117.70
121	CD	42	DA	C5-C6-N1	-5.57	114.91	117.70
125	CH	38	DC	N3-C4-N4	5.57	121.90	118.00
130	CM	19	DC	N3-C4-C5	-5.57	119.67	121.90
145	Cc	3	DA	C4-C5-C6	5.57	119.79	117.00
146	Cd	7	DA	C5-C6-N6	-5.57	119.24	123.70
157	Cu	6	DA	C5-C6-N6	-5.57	119.24	123.70
1	AA	1576	DA	C5-C6-N1	-5.57	114.91	117.70
1	AA	2087	DC	N3-C4-N4	5.57	121.90	118.00
1	AA	5162	DA	C5-C6-N6	-5.57	119.24	123.70
1	AA	6869	DA	C4-C5-C6	5.57	119.79	117.00
12	AC	17	DA	C5-C6-N6	-5.57	119.24	123.70
56	B0	42	DA	C5-C6-N6	-5.57	119.24	123.70
84	BT	48	DC	N3-C4-N4	5.57	121.90	118.00
131	CN	29	DA	C5-C6-N6	-5.57	119.24	123.70
1	AA	475	DA	C4-C5-C6	5.57	119.79	117.00
1	AA	588	DA	C5-C6-N6	-5.57	119.24	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1911	DC	C1'-O4'-C4'	-5.57	104.53	110.10
1	AA	5549	DA	C5-C6-N6	-5.57	119.24	123.70
1	AA	6140	DA	C5-C6-N6	-5.57	119.24	123.70
1	AA	6745	DA	C4-C5-C6	5.57	119.79	117.00
1	AA	6793	DA	C5-C6-N6	-5.57	119.24	123.70
1	AA	7065	DC	O4'-C1'-N1	5.57	111.90	108.00
2	A0	51	DA	C5-C6-N1	-5.57	114.92	117.70
22	AM	47	DA	C5-C6-N6	-5.57	119.24	123.70
45	Al	42	DC	N3-C4-N4	5.57	121.90	118.00
51	Av	40	DA	C5-C6-N6	-5.57	119.24	123.70
54	Ay	34	DA	C5-C6-N6	-5.57	119.24	123.70
86	BV	25	DA	C5-C6-N6	-5.57	119.24	123.70
87	BW	50	DC	N3-C4-N4	5.57	121.90	118.00
100	Bj	33	DA	C5-C6-N6	-5.57	119.24	123.70
107	Bq	54	DA	C5-C6-N6	-5.57	119.24	123.70
126	CI	16	DA	C5-C6-N6	-5.57	119.24	123.70
128	CK	5	DA	C5-C6-N6	-5.57	119.24	123.70
142	CY	11	DA	C5-C6-N1	-5.57	114.92	117.70
1	AA	883	DC	N3-C4-N4	5.57	121.90	118.00
1	AA	1595	DA	C5-C6-N6	-5.57	119.25	123.70
1	AA	1792	DA	C4-C5-C6	5.57	119.78	117.00
1	AA	2107	DC	N3-C4-N4	5.57	121.90	118.00
1	AA	2742	DT	O4'-C1'-C2'	-5.57	101.44	105.90
1	AA	3129	DC	N3-C4-N4	5.57	121.90	118.00
1	AA	3231	DC	N3-C4-N4	5.57	121.90	118.00
1	AA	3456	DA	C4-C5-C6	5.57	119.78	117.00
1	AA	3655	DC	N3-C4-C5	-5.57	119.67	121.90
1	AA	4150	DC	N3-C4-N4	5.57	121.90	118.00
1	AA	4485	DC	N3-C4-C5	-5.57	119.67	121.90
1	AA	4815	DC	N3-C4-C5	-5.57	119.67	121.90
1	AA	6281	DA	C5-C6-N6	-5.57	119.25	123.70
1	AA	6641	DC	N3-C4-N4	5.57	121.90	118.00
1	AA	6881	DC	N3-C4-C5	-5.57	119.67	121.90
2	A0	6	DA	C5-C6-N6	-5.57	119.25	123.70
24	AO	24	DC	N3-C4-N4	5.57	121.90	118.00
30	AU	4	DC	N3-C4-C5	-5.57	119.67	121.90
35	AZ	5	DA	C5-C6-N6	-5.57	119.24	123.70
46	Am	13	DC	N3-C4-N4	5.57	121.90	118.00
46	Am	18	DC	N3-C4-N4	5.57	121.90	118.00
57	B1	57	DA	C5-C6-N6	-5.57	119.24	123.70
151	Ck	34	DC	N3-C4-N4	5.57	121.90	118.00
155	Cs	17	DA	C4-C5-C6	5.57	119.78	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	698	DC	O4'-C1'-C2'	-5.57	101.45	105.90
1	AA	1234	DA	C4-C5-C6	5.57	119.78	117.00
1	AA	1594	DG	C8-N9-C1'	5.57	134.24	127.00
1	AA	2658	DG	O4'-C1'-C2'	-5.57	101.45	105.90
1	AA	3635	DA	C5-C6-N6	-5.57	119.25	123.70
1	AA	3769	DC	O4'-C1'-N1	5.57	111.90	108.00
1	AA	4027	DA	C5-C6-N6	-5.57	119.25	123.70
1	AA	5251	DA	C5-C6-N1	-5.57	114.92	117.70
1	AA	5655	DA	C5-C6-N6	-5.57	119.25	123.70
1	AA	5954	DC	N3-C4-N4	5.57	121.90	118.00
1	AA	7138	DC	O4'-C1'-C2'	-5.57	101.44	105.90
1	AA	7204	DC	N3-C4-N4	5.57	121.90	118.00
4	A2	3	DA	C4-C5-C6	5.57	119.78	117.00
24	AO	11	DC	N3-C4-N4	5.57	121.90	118.00
26	AQ	37	DA	C5-C6-N6	-5.57	119.25	123.70
37	Ac	57	DC	N3-C4-N4	5.57	121.90	118.00
37	Ac	59	DA	C5-C6-N6	-5.57	119.25	123.70
53	Ax	12	DA	C5-C6-N6	-5.57	119.25	123.70
54	Ay	35	DC	N3-C4-N4	5.57	121.90	118.00
61	B5	12	DC	N3-C4-N4	5.57	121.90	118.00
71	BG	34	DC	N3-C4-N4	5.57	121.90	118.00
82	BR	37	DA	C5-C6-N1	-5.57	114.92	117.70
94	Bd	22	DG	P-O3'-C3'	5.57	126.38	119.70
100	Bj	6	DA	C4-C5-C6	5.57	119.78	117.00
100	Bj	36	DA	C4-C5-C6	5.57	119.78	117.00
135	CR	1	DA	C4-C5-C6	5.57	119.78	117.00
138	CU	31	DA	C5-C6-N6	-5.57	119.25	123.70
140	CW	37	DC	N3-C4-C5	-5.57	119.67	121.90
142	CY	5	DA	C5-C6-N6	-5.57	119.25	123.70
145	Cc	23	DA	C5-C6-N6	-5.57	119.25	123.70
147	Ce	43	DA	C5-C6-N1	-5.57	114.92	117.70
1	AA	1778	DA	C4-C5-C6	5.57	119.78	117.00
1	AA	2662	DA	C5-C6-N6	-5.57	119.25	123.70
1	AA	2830	DA	C4-C5-C6	5.57	119.78	117.00
1	AA	2830	DA	C5-C6-N6	-5.57	119.25	123.70
1	AA	4153	DC	O4'-C4'-C3'	-5.57	102.27	104.50
1	AA	4521	DA	C5-C6-N6	-5.57	119.25	123.70
1	AA	4790	DA	C4-C5-C6	5.57	119.78	117.00
1	AA	4827	DC	N3-C4-C5	-5.57	119.67	121.90
1	AA	4863	DA	C5-C6-N1	-5.57	114.92	117.70
1	AA	5317	DC	N3-C4-N4	5.57	121.89	118.00
1	AA	5331	DC	N3-C4-C5	-5.57	119.67	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5464	DC	O4'-C1'-C2'	-5.57	101.45	105.90
17	AH	42	DA	C5-C6-N6	-5.57	119.25	123.70
22	AM	9	DC	N3-C4-N4	5.57	121.90	118.00
26	AQ	10	DA	C5-C6-N6	-5.57	119.25	123.70
33	AX	14	DA	C5-C6-N6	-5.57	119.25	123.70
33	AX	25	DC	N3-C4-C5	-5.57	119.67	121.90
33	AX	35	DA	C5-C6-N1	-5.57	114.92	117.70
45	Al	15	DA	C4-C5-C6	5.57	119.78	117.00
45	Al	27	DA	C5-C6-N6	-5.57	119.25	123.70
57	B1	59	DA	C5-C6-N6	-5.57	119.25	123.70
62	B6	27	DA	C5-C6-N1	-5.57	114.92	117.70
67	BC	7	DC	N3-C4-N4	5.57	121.90	118.00
70	BF	35	DA	C5-C6-N6	-5.57	119.25	123.70
108	Br	28	DA	C5-C6-N6	-5.57	119.25	123.70
110	C0	17	DC	N3-C4-N4	5.57	121.90	118.00
110	C0	37	DA	C4-C5-C6	5.57	119.78	117.00
113	C3	41	DA	C5-C6-N1	-5.57	114.92	117.70
126	CI	2	DA	C5-C6-N6	-5.57	119.25	123.70
142	CY	19	DA	C5-C6-N1	-5.57	114.92	117.70
145	Cc	61	DA	C4-C5-C6	5.57	119.78	117.00
152	Cp	37	DC	N3-C4-N4	5.57	121.90	118.00
158	Cv	40	DA	C5-C6-N6	-5.57	119.25	123.70
1	AA	181	DA	C5-C6-N6	-5.56	119.25	123.70
1	AA	3979	DA	C4-C5-C6	5.56	119.78	117.00
1	AA	4225	DG	C1'-O4'-C4'	-5.56	104.54	110.10
1	AA	4801	DA	C5-C6-N6	-5.56	119.25	123.70
1	AA	5106	DA	C4-C5-C6	5.56	119.78	117.00
1	AA	5305	DA	C4-C5-C6	5.56	119.78	117.00
19	AJ	3	DA	C5-C6-N6	-5.56	119.25	123.70
25	AP	18	DA	C4-C5-C6	5.56	119.78	117.00
34	AY	15	DC	N3-C4-N4	5.56	121.89	118.00
71	BG	38	DA	C4-C5-C6	5.56	119.78	117.00
90	BZ	62	DA	C5-C6-N6	-5.56	119.25	123.70
112	C2	21	DC	N3-C4-N4	5.56	121.89	118.00
133	CP	48	DC	N3-C4-N4	5.56	121.89	118.00
1	AA	134	DA	P-O3'-C3'	5.56	126.38	119.70
1	AA	1033	DA	C5-C6-N6	-5.56	119.25	123.70
1	AA	1213	DA	C5-C6-N6	-5.56	119.25	123.70
1	AA	3729	DA	C5-C6-N6	-5.56	119.25	123.70
1	AA	4830	DC	N3-C4-C5	-5.56	119.67	121.90
1	AA	5755	DA	C5-C6-N6	-5.56	119.25	123.70
1	AA	6529	DC	N3-C4-N4	5.56	121.89	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6780	DG	O4'-C1'-N9	5.56	111.89	108.00
1	AA	6907	DC	N3-C4-N4	5.56	121.89	118.00
1	AA	6983	DT	O4'-C1'-N1	5.56	111.89	108.00
1	AA	7064	DA	C4-C5-C6	5.56	119.78	117.00
1	AA	7196	DC	N3-C4-N4	5.56	121.89	118.00
30	AU	14	DA	C5-C6-N6	-5.56	119.25	123.70
37	Ac	9	DC	N3-C4-N4	5.56	121.89	118.00
37	Ac	27	DA	C5-C6-N6	-5.56	119.25	123.70
38	Ad	41	DC	N3-C4-N4	5.56	121.89	118.00
40	Ag	48	DA	C5-C6-N6	-5.56	119.25	123.70
42	Ai	45	DA	C4-C5-C6	5.56	119.78	117.00
60	B4	7	DA	C5-C6-N6	-5.56	119.25	123.70
61	B5	7	DA	C5-C6-N6	-5.56	119.25	123.70
70	BF	14	DA	C5-C6-N6	-5.56	119.25	123.70
95	Be	39	DA	C5-C6-N6	-5.56	119.25	123.70
112	C2	47	DC	N3-C4-C5	-5.56	119.67	121.90
116	C6	11	DA	O4'-C4'-C3'	-5.56	102.28	104.50
125	CH	34	DA	C4-C5-C6	5.56	119.78	117.00
132	CO	17	DA	C4-C5-C6	5.56	119.78	117.00
153	Cq	4	DA	C5-C6-N1	-5.56	114.92	117.70
157	Cu	8	DA	C4-C5-C6	5.56	119.78	117.00
1	AA	141	DA	C5-C6-N6	-5.56	119.25	123.70
1	AA	856	DC	N3-C4-N4	5.56	121.89	118.00
1	AA	1121	DA	C5-C6-N6	-5.56	119.25	123.70
1	AA	1762	DA	C5-C6-N6	-5.56	119.25	123.70
1	AA	6262	DC	O4'-C1'-C2'	-5.56	101.45	105.90
1	AA	6692	DC	N3-C4-N4	5.56	121.89	118.00
24	AO	28	DT	O4'-C1'-C2'	-5.56	101.45	105.90
42	Ai	20	DA	P-O3'-C3'	5.56	126.37	119.70
45	Al	44	DA	C4-C5-C6	5.56	119.78	117.00
79	BO	37	DA	C5-C6-N6	-5.56	119.25	123.70
92	Bb	21	DC	N3-C4-N4	5.56	121.89	118.00
111	C1	13	DT	P-O3'-C3'	5.56	126.37	119.70
117	C7	46	DA	C5-C6-N6	-5.56	119.25	123.70
127	CJ	43	DC	N3-C4-C5	-5.56	119.68	121.90
137	CT	19	DA	O4'-C1'-C2'	-5.56	101.45	105.90
149	Cg	10	DA	C5-C6-N6	-5.56	119.25	123.70
1	AA	82	DA	C4-C5-C6	5.56	119.78	117.00
1	AA	942	DA	C5-C6-N6	-5.56	119.25	123.70
1	AA	1146	DC	P-O3'-C3'	5.56	126.37	119.70
1	AA	1250	DC	N3-C4-N4	5.56	121.89	118.00
1	AA	1307	DA	C5-C6-N6	-5.56	119.25	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1723	DC	N3-C4-N4	5.56	121.89	118.00
1	AA	2024	DA	C5-C6-N6	-5.56	119.25	123.70
1	AA	2170	DC	N3-C4-C5	-5.56	119.68	121.90
1	AA	2356	DC	O4'-C1'-C2'	-5.56	101.45	105.90
1	AA	2443	DA	C5-C6-N6	-5.56	119.25	123.70
1	AA	3005	DC	N3-C4-N4	5.56	121.89	118.00
1	AA	3957	DA	C5-C6-N6	-5.56	119.25	123.70
1	AA	4643	DA	C5-C6-N6	-5.56	119.25	123.70
1	AA	4695	DA	C5-C6-N6	-5.56	119.25	123.70
1	AA	5851	DA	C4-C5-C6	5.56	119.78	117.00
1	AA	5999	DC	N3-C4-N4	5.56	121.89	118.00
1	AA	6069	DA	C5-C6-N1	-5.56	114.92	117.70
1	AA	6563	DC	N3-C4-C5	-5.56	119.68	121.90
1	AA	6845	DC	N3-C4-C5	-5.56	119.68	121.90
2	A0	38	DA	C4-C5-C6	5.56	119.78	117.00
21	AL	22	DA	C5-C6-N6	-5.56	119.25	123.70
24	AO	26	DA	C5-C6-N6	-5.56	119.25	123.70
28	AS	61	DA	C4-C5-C6	5.56	119.78	117.00
35	AZ	38	DC	N3-C4-N4	5.56	121.89	118.00
37	Ac	28	DA	C5-C6-N6	-5.56	119.25	123.70
40	Ag	23	DC	N3-C4-C5	-5.56	119.68	121.90
41	Ah	31	DA	C5-C6-N6	-5.56	119.25	123.70
50	Au	22	DA	C5-C6-N6	-5.56	119.25	123.70
51	Av	26	DA	C5-C6-N6	-5.56	119.25	123.70
55	Az	39	DA	C5-C6-N1	-5.56	114.92	117.70
56	B0	2	DC	N3-C4-N4	5.56	121.89	118.00
66	BB	33	DT	P-O3'-C3'	5.56	126.37	119.70
70	BF	28	DC	N3-C4-C5	-5.56	119.68	121.90
87	BW	27	DC	N3-C4-N4	5.56	121.89	118.00
94	Bd	12	DC	N3-C4-C5	-5.56	119.68	121.90
100	Bj	18	DC	N3-C4-N4	5.56	121.89	118.00
103	Bm	1	DA	C4-C5-C6	5.56	119.78	117.00
114	C4	17	DA	C4-C5-C6	5.56	119.78	117.00
119	CB	45	DC	N3-C4-N4	5.56	121.89	118.00
121	CD	17	DA	C5-C6-N1	-5.56	114.92	117.70
125	CH	2	DA	C5-C6-N6	-5.56	119.25	123.70
135	CR	24	DA	C5-C6-N1	-5.56	114.92	117.70
138	CU	27	DA	C4-C5-C6	5.56	119.78	117.00
144	Cb	18	DA	C5-C6-N6	-5.56	119.25	123.70
146	Cd	35	DA	C5-C6-N6	-5.56	119.25	123.70
150	Ch	28	DC	N3-C4-N4	5.56	121.89	118.00
1	AA	1246	DA	C5-C6-N6	-5.56	119.25	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1401	DA	C5-C6-N6	-5.56	119.25	123.70
1	AA	1761	DA	C5-C6-N1	-5.56	114.92	117.70
1	AA	3117	DC	N3-C4-N4	5.56	121.89	118.00
1	AA	3592	DC	N3-C4-N4	5.56	121.89	118.00
1	AA	3845	DC	N3-C4-N4	5.56	121.89	118.00
1	AA	4114	DA	C5-C6-N6	-5.56	119.25	123.70
1	AA	4277	DC	O4'-C1'-C2'	-5.56	101.45	105.90
1	AA	4602	DC	N3-C4-C5	-5.56	119.68	121.90
1	AA	6865	DA	C4-C5-C6	5.56	119.78	117.00
1	AA	6877	DA	C5-C6-N6	-5.56	119.25	123.70
1	AA	6965	DA	C5-C6-N1	-5.56	114.92	117.70
6	A4	39	DA	C5-C6-N6	-5.56	119.25	123.70
7	A5	19	DA	C5-C6-N1	-5.56	114.92	117.70
31	AV	31	DC	N3-C4-N4	5.56	121.89	118.00
36	Ab	30	DA	C5-C6-N1	-5.56	114.92	117.70
49	As	37	DA	C4-C5-C6	5.56	119.78	117.00
59	B3	7	DA	C5-C6-N6	-5.56	119.25	123.70
65	B9	8	DA	C4-C5-C6	5.56	119.78	117.00
111	C1	33	DA	O4'-C1'-N9	5.56	111.89	108.00
131	CN	22	DC	N3-C4-C5	-5.56	119.68	121.90
159	Cw	21	DA	C5-C6-N6	-5.56	119.25	123.70
159	Cw	28	DA	C5-C6-N6	-5.56	119.25	123.70
1	AA	1778	DA	C5-C6-N6	-5.56	119.25	123.70
1	AA	2065	DA	C4-C5-C6	5.56	119.78	117.00
1	AA	2487	DC	N3-C4-C5	-5.56	119.68	121.90
1	AA	2621	DA	C5-C6-N6	-5.56	119.25	123.70
1	AA	2785	DC	N3-C4-N4	5.56	121.89	118.00
1	AA	2788	DA	P-O3'-C3'	5.56	126.37	119.70
1	AA	3806	DC	N3-C4-N4	5.56	121.89	118.00
1	AA	5317	DC	N3-C4-C5	-5.56	119.68	121.90
1	AA	6577	DA	C5-C6-N6	-5.56	119.25	123.70
26	AQ	25	DC	N3-C4-N4	5.56	121.89	118.00
39	Af	40	DC	O4'-C1'-N1	5.56	111.89	108.00
48	Ao	23	DA	C4-C5-C6	5.56	119.78	117.00
53	Ax	29	DA	C5-C6-N6	-5.56	119.25	123.70
89	BY	27	DA	C5-C6-N6	-5.56	119.25	123.70
99	Bi	35	DC	O4'-C1'-C2'	-5.56	101.45	105.90
112	C2	54	DA	C4-C5-C6	5.56	119.78	117.00
125	CH	21	DA	C5-C6-N6	-5.56	119.25	123.70
127	CJ	23	DA	C4-C5-C6	5.56	119.78	117.00
136	CS	4	DA	C5-C6-N6	-5.56	119.25	123.70
152	Cp	6	DG	C1'-O4'-C4'	-5.56	104.54	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	453	DC	N3-C4-N4	5.55	121.89	118.00
1	AA	684	DA	C4-C5-C6	5.55	119.78	117.00
1	AA	746	DC	N3-C4-N4	5.55	121.89	118.00
1	AA	1291	DC	N3-C4-N4	5.55	121.89	118.00
1	AA	1874	DA	C5-C6-N6	-5.55	119.26	123.70
1	AA	2648	DC	N3-C4-N4	5.55	121.89	118.00
1	AA	2673	DC	N3-C4-N4	5.55	121.89	118.00
1	AA	3001	DC	O4'-C4'-C3'	-5.55	102.28	104.50
1	AA	3142	DA	C4-C5-C6	5.55	119.78	117.00
1	AA	3519	DC	N3-C4-C5	-5.55	119.68	121.90
1	AA	5263	DA	C4-C5-C6	5.55	119.78	117.00
1	AA	5657	DC	N3-C4-C5	-5.55	119.68	121.90
1	AA	5865	DA	C4-C5-C6	5.55	119.78	117.00
1	AA	6032	DA	C4-C5-C6	5.55	119.78	117.00
1	AA	6227	DC	N3-C4-N4	5.55	121.89	118.00
1	AA	6727	DA	C4-C5-C6	5.55	119.78	117.00
5	A3	4	DA	C5-C6-N1	-5.55	114.92	117.70
12	AC	30	DC	N3-C4-N4	5.55	121.89	118.00
32	AW	45	DC	O4'-C1'-N1	5.55	111.89	108.00
52	Aw	6	DA	C5-C6-N1	-5.55	114.92	117.70
58	B2	22	DA	C5-C6-N6	-5.55	119.26	123.70
59	B3	26	DC	N3-C4-C5	-5.55	119.68	121.90
67	BC	9	DA	C5-C6-N6	-5.55	119.26	123.70
67	BC	28	DA	C5-C6-N6	-5.55	119.26	123.70
71	BG	38	DA	C5-C6-N6	-5.55	119.26	123.70
76	BL	39	DC	N3-C4-N4	5.55	121.89	118.00
78	BN	44	DC	N3-C4-C5	-5.55	119.68	121.90
95	Be	39	DA	C5-C6-N1	-5.55	114.92	117.70
99	Bi	33	DC	N3-C4-N4	5.55	121.89	118.00
100	Bj	27	DG	O4'-C1'-C2'	-5.55	101.46	105.90
110	C0	4	DA	O4'-C1'-C2'	-5.55	101.46	105.90
138	CU	5	DA	C4-C5-C6	5.55	119.78	117.00
142	CY	12	DC	N3-C4-N4	5.55	121.89	118.00
143	CZ	47	DA	C4-C5-C6	5.55	119.78	117.00
145	Cc	43	DC	N3-C4-N4	5.55	121.89	118.00
157	Cu	4	DA	C5-C6-N6	-5.55	119.26	123.70
160	Cx	8	DA	C5-C6-N6	-5.55	119.26	123.70
1	AA	444	DA	C5-C6-N6	-5.55	119.26	123.70
1	AA	1429	DG	O4'-C1'-N9	5.55	111.89	108.00
1	AA	2906	DA	C5-C6-N6	-5.55	119.26	123.70
1	AA	3408	DA	C4-C5-C6	5.55	119.78	117.00
1	AA	4834	DA	C4-C5-C6	5.55	119.78	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6418	DG	C1'-O4'-C4'	-5.55	104.55	110.10
1	AA	7087	DC	N3-C4-N4	5.55	121.89	118.00
9	A7	28	DC	P-O3'-C3'	5.55	126.36	119.70
39	Af	36	DA	C4-C5-C6	5.55	119.78	117.00
59	B3	33	DA	C4-C5-C6	5.55	119.78	117.00
62	B6	8	DA	C5-C6-N6	-5.55	119.26	123.70
71	BG	43	DA	C5-C6-N6	-5.55	119.26	123.70
79	BO	48	DC	N3-C4-N4	5.55	121.89	118.00
122	CE	35	DA	C5-C6-N6	-5.55	119.26	123.70
159	Cw	27	DA	C5-C6-N6	-5.55	119.26	123.70
1	AA	47	DA	C5-C6-N6	-5.55	119.26	123.70
1	AA	373	DA	C5-C6-N1	-5.55	114.92	117.70
1	AA	706	DC	N3-C4-N4	5.55	121.89	118.00
1	AA	1054	DA	C5-C6-N6	-5.55	119.26	123.70
1	AA	2284	DA	C4-C5-C6	5.55	119.78	117.00
1	AA	2377	DA	C5-C6-N6	-5.55	119.26	123.70
1	AA	3502	DC	N3-C4-C5	-5.55	119.68	121.90
1	AA	3574	DA	C5-C6-N6	-5.55	119.26	123.70
1	AA	4228	DC	N3-C4-N4	5.55	121.89	118.00
1	AA	4396	DA	C5-C6-N6	-5.55	119.26	123.70
1	AA	4459	DA	C5-C6-N6	-5.55	119.26	123.70
1	AA	5207	DC	N3-C4-C5	-5.55	119.68	121.90
1	AA	5644	DA	C4-C5-C6	5.55	119.78	117.00
1	AA	5846	DA	C5-C6-N6	-5.55	119.26	123.70
1	AA	6969	DC	N3-C4-N4	5.55	121.89	118.00
3	A1	6	DA	C4-C5-C6	5.55	119.78	117.00
16	AG	19	DA	C5-C6-N6	-5.55	119.26	123.70
19	AJ	7	DC	N3-C4-N4	5.55	121.89	118.00
24	AO	41	DA	C5-C6-N1	-5.55	114.92	117.70
26	AQ	22	DA	C4-C5-C6	5.55	119.78	117.00
39	Af	37	DC	N3-C4-C5	-5.55	119.68	121.90
39	Af	43	DA	C5-C6-N6	-5.55	119.26	123.70
61	B5	32	DA	C5-C6-N6	-5.55	119.26	123.70
66	BB	16	DC	O4'-C1'-C2'	-5.55	101.46	105.90
71	BG	18	DA	C4-C5-C6	5.55	119.78	117.00
93	Bc	15	DC	N3-C4-C5	-5.55	119.68	121.90
93	Bc	45	DA	C5-C6-N1	-5.55	114.92	117.70
95	Be	26	DC	N3-C4-N4	5.55	121.89	118.00
99	Bi	1	DA	C4-C5-C6	5.55	119.78	117.00
109	Bs	44	DC	N3-C4-N4	5.55	121.89	118.00
114	C4	9	DA	C5-C6-N6	-5.55	119.26	123.70
148	Cf	22	DA	C4-C5-C6	5.55	119.78	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
161	Cy	23	DA	C5-C6-N6	-5.55	119.26	123.70
1	AA	413	DA	C5-C6-N6	-5.55	119.26	123.70
1	AA	843	DA	C5-C6-N1	-5.55	114.93	117.70
1	AA	991	DA	C5-C6-N6	-5.55	119.26	123.70
1	AA	1362	DA	C4-C5-C6	5.55	119.78	117.00
1	AA	1646	DA	C5-C6-N6	-5.55	119.26	123.70
1	AA	3808	DC	N3-C4-N4	5.55	121.89	118.00
1	AA	4710	DA	C5-C6-N6	-5.55	119.26	123.70
1	AA	4839	DC	N3-C4-C5	-5.55	119.68	121.90
1	AA	5110	DA	C5-C6-N6	-5.55	119.26	123.70
1	AA	5638	DA	C4-C5-C6	5.55	119.78	117.00
1	AA	5968	DA	C4-C5-C6	5.55	119.78	117.00
1	AA	6121	DA	C5-C6-N6	-5.55	119.26	123.70
1	AA	6552	DA	C5-C6-N6	-5.55	119.26	123.70
1	AA	6747	DC	N3-C4-N4	5.55	121.89	118.00
1	AA	6944	DC	N3-C4-C5	-5.55	119.68	121.90
4	A2	37	DA	C4-C5-C6	5.55	119.78	117.00
8	A6	1	DA	C4-C5-C6	5.55	119.78	117.00
9	A7	7	DA	C5-C6-N6	-5.55	119.26	123.70
11	AB	40	DC	N3-C4-N4	5.55	121.89	118.00
23	AN	28	DA	C4-C5-C6	5.55	119.77	117.00
25	AP	28	DA	C5-C6-N6	-5.55	119.26	123.70
26	AQ	37	DA	C5-C6-N1	-5.55	114.92	117.70
26	AQ	54	DA	C5-C6-N1	-5.55	114.92	117.70
27	AR	39	DC	N3-C4-N4	5.55	121.89	118.00
34	AY	9	DA	C5-C6-N6	-5.55	119.26	123.70
78	BN	40	DA	P-O3'-C3'	5.55	126.36	119.70
94	Bd	23	DA	C5-C6-N6	-5.55	119.26	123.70
94	Bd	47	DA	C4-C5-C6	5.55	119.78	117.00
121	CD	1	DA	C5-C6-N6	-5.55	119.26	123.70
126	CI	2	DA	C5-C6-N1	-5.55	114.92	117.70
135	CR	4	DC	N3-C4-N4	5.55	121.89	118.00
136	CS	9	DA	C5-C6-N6	-5.55	119.26	123.70
138	CU	27	DA	C5-C6-N6	-5.55	119.26	123.70
155	Cs	46	DA	C5-C6-N6	-5.55	119.26	123.70
1	AA	2492	DC	N3-C4-N4	5.55	121.88	118.00
1	AA	3040	DA	C5-C6-N6	-5.55	119.26	123.70
1	AA	3793	DA	C4-C5-C6	5.55	119.77	117.00
1	AA	3979	DA	C5-C6-N6	-5.55	119.26	123.70
1	AA	6025	DA	C4-C5-C6	5.55	119.77	117.00
7	A5	10	DC	N3-C4-N4	5.55	121.88	118.00
15	AF	44	DA	C5-C6-N6	-5.55	119.26	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
18	AI	31	DC	N3-C4-N4	5.55	121.88	118.00
44	Ak	27	DA	C5-C6-N6	-5.55	119.26	123.70
57	B1	35	DA	C5-C6-N6	-5.55	119.26	123.70
60	B4	15	DA	C5-C6-N6	-5.55	119.26	123.70
66	BB	34	DA	C5-C6-N6	-5.55	119.26	123.70
77	BM	16	DA	C5-C6-N1	-5.55	114.93	117.70
78	BN	49	DA	C5-C6-N6	-5.55	119.26	123.70
121	CD	44	DA	C5-C6-N1	-5.55	114.93	117.70
147	Ce	41	DA	C5-C6-N6	-5.55	119.26	123.70
148	Cf	25	DA	C4-C5-C6	5.55	119.77	117.00
150	Ch	3	DA	C4-C5-C6	5.55	119.77	117.00
160	Cx	40	DC	O4'-C1'-N1	5.55	111.88	108.00
1	AA	921	DA	C5-C6-N6	-5.55	119.26	123.70
1	AA	1156	DC	N3-C4-N4	5.55	121.88	118.00
1	AA	1594	DG	C4-N9-C1'	-5.55	119.29	126.50
1	AA	1643	DA	C5-C6-N1	-5.55	114.93	117.70
1	AA	1852	DC	N3-C4-N4	5.55	121.88	118.00
1	AA	1895	DA	C4-C5-C6	5.55	119.77	117.00
1	AA	2024	DA	C5-C6-N1	-5.55	114.93	117.70
1	AA	2072	DC	O4'-C1'-C2'	-5.55	101.46	105.90
1	AA	3055	DA	C5-C6-N1	-5.55	114.93	117.70
1	AA	3606	DA	C5-C6-N6	-5.55	119.26	123.70
1	AA	3784	DC	N3-C4-N4	5.55	121.88	118.00
1	AA	4033	DG	P-O3'-C3'	5.55	126.36	119.70
1	AA	6715	DA	C5-C6-N6	-5.55	119.26	123.70
15	AF	2	DC	N3-C4-C5	-5.55	119.68	121.90
35	AZ	2	DA	C4-C5-C6	5.55	119.77	117.00
37	Ac	38	DA	C4-C5-C6	5.55	119.77	117.00
38	Ad	16	DA	C4-C5-C6	5.55	119.77	117.00
38	Ad	33	DC	N3-C4-N4	5.55	121.88	118.00
39	Af	27	DC	O4'-C1'-N1	5.55	111.88	108.00
45	Al	5	DC	N3-C4-C5	-5.55	119.68	121.90
68	BD	23	DC	N3-C4-N4	5.55	121.88	118.00
76	BL	19	DC	N3-C4-C5	-5.55	119.68	121.90
92	Bb	3	DC	N3-C4-N4	5.55	121.88	118.00
93	Bc	30	DA	C4-C5-C6	5.55	119.77	117.00
101	Bk	32	DA	C5-C6-N6	-5.55	119.26	123.70
101	Bk	37	DA	C5-C6-N6	-5.55	119.26	123.70
111	C1	10	DA	C4-C5-C6	5.55	119.77	117.00
112	C2	34	DA	C5-C6-N1	-5.55	114.93	117.70
116	C6	30	DC	N3-C4-N4	5.55	121.88	118.00
117	C7	41	DT	P-O3'-C3'	5.55	126.36	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
125	CH	42	DC	N3-C4-N4	5.55	121.88	118.00
136	CS	8	DA	C5-C6-N6	-5.55	119.26	123.70
145	Cc	30	DA	C5-C6-N1	-5.55	114.93	117.70
153	Cq	4	DA	C5-C6-N6	-5.55	119.26	123.70
157	Cu	59	DC	N3-C4-N4	5.55	121.88	118.00
1	AA	271	DC	N3-C4-C5	-5.54	119.68	121.90
1	AA	488	DA	C5-C6-N6	-5.54	119.26	123.70
1	AA	2844	DC	N3-C4-C5	-5.54	119.68	121.90
1	AA	4923	DC	N3-C4-C5	-5.54	119.68	121.90
1	AA	5387	DA	C5-C6-N6	-5.54	119.26	123.70
1	AA	6482	DA	C5-C6-N6	-5.54	119.26	123.70
17	AH	23	DC	O4'-C1'-C2'	-5.54	101.46	105.90
44	Ak	45	DC	N3-C4-N4	5.54	121.88	118.00
66	BB	11	DG	P-O3'-C3'	5.54	126.35	119.70
101	Bk	66	DA	C5-C6-N6	-5.54	119.26	123.70
109	Bs	43	DC	N3-C4-C5	-5.54	119.68	121.90
143	CZ	2	DA	C5-C6-N6	-5.54	119.26	123.70
1	AA	369	DA	O4'-C1'-C2'	-5.54	101.47	105.90
1	AA	370	DA	C5-C6-N6	-5.54	119.27	123.70
1	AA	683	DC	N3-C4-N4	5.54	121.88	118.00
1	AA	1860	DA	C5-C6-N6	-5.54	119.27	123.70
1	AA	3521	DT	O4'-C1'-N1	5.54	111.88	108.00
1	AA	4824	DA	C5-C6-N6	-5.54	119.27	123.70
1	AA	5320	DA	C5-C6-N1	-5.54	114.93	117.70
1	AA	5353	DA	C5-C6-N6	-5.54	119.27	123.70
1	AA	6294	DC	O4'-C1'-N1	5.54	111.88	108.00
1	AA	6606	DC	N3-C4-N4	5.54	121.88	118.00
1	AA	6807	DA	C4-C5-C6	5.54	119.77	117.00
1	AA	7165	DT	P-O3'-C3'	5.54	126.35	119.70
4	A2	4	DA	C4-C5-C6	5.54	119.77	117.00
5	A3	13	DA	C5-C6-N6	-5.54	119.27	123.70
12	AC	14	DA	C5-C6-N6	-5.54	119.27	123.70
14	AE	2	DA	C5-C6-N1	-5.54	114.93	117.70
33	AX	16	DA	P-O3'-C3'	5.54	126.35	119.70
33	AX	45	DA	C4-C5-C6	5.54	119.77	117.00
43	Aj	61	DA	C5-C6-N6	-5.54	119.27	123.70
47	An	41	DC	N3-C4-N4	5.54	121.88	118.00
57	B1	59	DA	C5-C6-N1	-5.54	114.93	117.70
61	B5	13	DA	C5-C6-N6	-5.54	119.27	123.70
78	BN	52	DA	C5-C6-N6	-5.54	119.27	123.70
79	BO	21	DA	C5-C6-N6	-5.54	119.27	123.70
88	BX	24	DA	C5-C6-N6	-5.54	119.26	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
93	Bc	29	DA	C5-C6-N6	-5.54	119.27	123.70
100	Bj	24	DC	N3-C4-N4	5.54	121.88	118.00
103	Bm	3	DC	N3-C4-N4	5.54	121.88	118.00
113	C3	27	DA	C4-C5-C6	5.54	119.77	117.00
136	CS	46	DA	C4-C5-C6	5.54	119.77	117.00
157	Cu	51	DA	C5-C6-N6	-5.54	119.27	123.70
1	AA	42	DC	N3-C4-N4	5.54	121.88	118.00
1	AA	546	DC	N3-C4-C5	-5.54	119.68	121.90
1	AA	909	DC	N3-C4-N4	5.54	121.88	118.00
1	AA	916	DA	C5-C6-N6	-5.54	119.27	123.70
1	AA	2492	DC	N3-C4-C5	-5.54	119.68	121.90
1	AA	2860	DC	N3-C4-C5	-5.54	119.68	121.90
1	AA	2989	DA	C4-C5-C6	5.54	119.77	117.00
1	AA	4864	DC	O4'-C1'-N1	5.54	111.88	108.00
1	AA	5375	DA	C5-C6-N6	-5.54	119.27	123.70
1	AA	5408	DA	C4-C5-C6	5.54	119.77	117.00
1	AA	6269	DA	C5-C6-N6	-5.54	119.27	123.70
1	AA	6520	DA	C5-C6-N6	-5.54	119.27	123.70
2	A0	38	DA	C5-C6-N1	-5.54	114.93	117.70
6	A4	5	DA	C5-C6-N1	-5.54	114.93	117.70
9	A7	18	DA	C5-C6-N6	-5.54	119.27	123.70
10	A8	22	DA	C5-C6-N6	-5.54	119.27	123.70
22	AM	1	DA	C5-C6-N6	-5.54	119.27	123.70
38	Ad	1	DC	N3-C4-N4	5.54	121.88	118.00
45	Al	4	DA	C5-C6-N1	-5.54	114.93	117.70
65	B9	11	DA	C5-C6-N6	-5.54	119.27	123.70
71	BG	49	DT	C1'-O4'-C4'	-5.54	104.56	110.10
75	BK	2	DA	C5-C6-N6	-5.54	119.27	123.70
81	BQ	5	DA	C5-C6-N6	-5.54	119.27	123.70
86	BV	37	DA	C4-C5-C6	5.54	119.77	117.00
95	Be	19	DA	C5-C6-N6	-5.54	119.27	123.70
107	Bq	26	DA	P-O3'-C3'	5.54	126.35	119.70
114	C4	5	DA	C5-C6-N1	-5.54	114.93	117.70
116	C6	26	DA	C5-C6-N1	-5.54	114.93	117.70
117	C7	52	DA	C5-C6-N6	-5.54	119.27	123.70
127	CJ	29	DA	C5-C6-N6	-5.54	119.27	123.70
129	CL	2	DA	C5-C6-N6	-5.54	119.27	123.70
1	AA	1053	DA	C5-C6-N6	-5.54	119.27	123.70
1	AA	3573	DA	C5-C6-N6	-5.54	119.27	123.70
1	AA	5872	DA	C5-C6-N6	-5.54	119.27	123.70
13	AD	43	DA	O4'-C1'-N9	5.54	111.88	108.00
17	AH	48	DA	C5-C6-N6	-5.54	119.27	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
37	Ac	56	DC	N3-C4-C5	-5.54	119.68	121.90
56	B0	42	DA	O4'-C1'-N9	5.54	111.88	108.00
63	B7	8	DA	C5-C6-N6	-5.54	119.27	123.70
92	Bb	62	DC	N3-C4-N4	5.54	121.88	118.00
102	Bl	30	DA	C5-C6-N6	-5.54	119.27	123.70
109	Bs	13	DA	C5-C6-N6	-5.54	119.27	123.70
135	CR	45	DA	C5-C6-N1	-5.54	114.93	117.70
1	AA	907	DC	N3-C4-C5	-5.54	119.68	121.90
1	AA	2350	DA	C5-C6-N6	-5.54	119.27	123.70
1	AA	2988	DC	N3-C4-N4	5.54	121.88	118.00
1	AA	3644	DC	N3-C4-N4	5.54	121.88	118.00
1	AA	3955	DC	N3-C4-N4	5.54	121.88	118.00
1	AA	4177	DA	C4-C5-C6	5.54	119.77	117.00
1	AA	5251	DA	C4-C5-C6	5.54	119.77	117.00
1	AA	6133	DA	C4-C5-C6	5.54	119.77	117.00
1	AA	6141	DA	C5-C6-N6	-5.54	119.27	123.70
1	AA	6617	DC	N3-C4-N4	5.54	121.88	118.00
7	A5	23	DA	C4-C5-C6	5.54	119.77	117.00
8	A6	37	DA	P-O3'-C3'	5.54	126.35	119.70
10	A8	3	DA	C5-C6-N1	-5.54	114.93	117.70
12	AC	29	DC	N3-C4-N4	5.54	121.88	118.00
13	AD	28	DC	N3-C4-N4	5.54	121.88	118.00
17	AH	8	DC	N3-C4-N4	5.54	121.88	118.00
30	AU	7	DA	C4-C5-C6	5.54	119.77	117.00
39	Af	28	DA	C4-C5-C6	5.54	119.77	117.00
42	Ai	41	DC	N3-C4-N4	5.54	121.88	118.00
55	Az	2	DC	N3-C4-C5	-5.54	119.69	121.90
75	BK	11	DA	C5-C6-N1	-5.54	114.93	117.70
76	BL	2	DT	O4'-C1'-N1	5.54	111.88	108.00
90	BZ	62	DA	C4-C5-C6	5.54	119.77	117.00
94	Bd	16	DA	C5-C6-N6	-5.54	119.27	123.70
103	Bm	16	DC	N3-C4-C5	-5.54	119.69	121.90
116	C6	29	DA	C4-C5-C6	5.54	119.77	117.00
131	CN	11	DA	C5-C6-N6	-5.54	119.27	123.70
133	CP	29	DT	P-O3'-C3'	5.54	126.35	119.70
137	CT	20	DA	C4-C5-C6	5.54	119.77	117.00
153	Cq	5	DA	C5-C6-N1	-5.54	114.93	117.70
1	AA	798	DC	N3-C4-C5	-5.54	119.69	121.90
1	AA	1387	DA	C5-C6-N1	-5.54	114.93	117.70
1	AA	2557	DC	N3-C4-N4	5.54	121.88	118.00
1	AA	2747	DC	N3-C4-C5	-5.54	119.69	121.90
1	AA	4196	DA	C5-C6-N6	-5.54	119.27	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	4271	DC	N3-C4-C5	-5.54	119.69	121.90
1	AA	5022	DC	N3-C4-N4	5.54	121.88	118.00
1	AA	5196	DC	N3-C4-N4	5.54	121.88	118.00
1	AA	6320	DA	C5-C6-N6	-5.54	119.27	123.70
1	AA	6992	DC	N3-C4-C5	-5.54	119.69	121.90
53	Ax	1	DC	C2-N1-C1'	5.54	124.89	118.80
61	B5	17	DC	N3-C4-N4	5.54	121.88	118.00
67	BC	12	DA	C5-C6-N6	-5.54	119.27	123.70
132	CO	5	DA	C5-C6-N1	-5.54	114.93	117.70
134	CQ	32	DA	C5-C6-N6	-5.54	119.27	123.70
1	AA	74	DC	N3-C4-N4	5.54	121.88	118.00
1	AA	653	DA	C4-C5-C6	5.54	119.77	117.00
1	AA	709	DA	C5-C6-N6	-5.54	119.27	123.70
1	AA	890	DA	C5-C6-N6	-5.54	119.27	123.70
1	AA	1067	DC	N3-C4-N4	5.54	121.87	118.00
1	AA	1675	DA	C5-C6-N1	-5.54	114.93	117.70
1	AA	2499	DA	C5-C6-N1	-5.54	114.93	117.70
1	AA	2706	DC	N3-C4-N4	5.54	121.88	118.00
1	AA	3020	DA	C4-C5-C6	5.54	119.77	117.00
1	AA	3334	DC	N3-C4-N4	5.54	121.87	118.00
1	AA	3534	DC	N3-C4-N4	5.54	121.87	118.00
1	AA	4075	DC	N3-C4-N4	5.54	121.88	118.00
1	AA	4749	DA	C5-C6-N1	-5.54	114.93	117.70
1	AA	6164	DA	C4-C5-C6	5.54	119.77	117.00
1	AA	6168	DA	C5-C6-N6	-5.54	119.27	123.70
1	AA	7083	DC	N3-C4-N4	5.54	121.88	118.00
1	AA	7163	DC	N3-C4-N4	5.54	121.87	118.00
2	A0	18	DC	N3-C4-N4	5.54	121.88	118.00
7	A5	12	DA	C4-C5-C6	5.54	119.77	117.00
21	AL	23	DC	N3-C4-N4	5.54	121.88	118.00
38	Ad	18	DC	N3-C4-C5	-5.54	119.69	121.90
45	Al	30	DC	N3-C4-C5	-5.54	119.69	121.90
49	As	37	DA	C5-C6-N6	-5.54	119.27	123.70
53	Ax	7	DC	N3-C4-N4	5.54	121.88	118.00
78	BN	26	DA	C5-C6-N6	-5.54	119.27	123.70
78	BN	59	DA	C4-C5-C6	5.54	119.77	117.00
81	BQ	27	DA	C5-C6-N6	-5.54	119.27	123.70
99	Bi	41	DC	N3-C4-N4	5.54	121.88	118.00
114	C4	18	DA	C5-C6-N6	-5.54	119.27	123.70
139	CV	40	DC	N3-C4-C5	-5.54	119.69	121.90
150	Ch	41	DA	C5-C6-N6	-5.54	119.27	123.70
1	AA	242	DA	C4-C5-C6	5.53	119.77	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1329	DA	C4-C5-C6	5.53	119.77	117.00
1	AA	2232	DA	C5-C6-N6	-5.53	119.27	123.70
1	AA	3143	DC	N3-C4-N4	5.53	121.87	118.00
1	AA	3497	DC	O4'-C4'-C3'	-5.53	102.29	104.50
1	AA	4408	DC	N3-C4-N4	5.53	121.87	118.00
1	AA	5194	DC	N3-C4-N4	5.53	121.87	118.00
1	AA	5466	DC	P-O3'-C3'	5.53	126.34	119.70
1	AA	5576	DA	C5-C6-N1	-5.53	114.93	117.70
1	AA	5596	DA	C4-C5-C6	5.53	119.77	117.00
1	AA	5929	DG	C1'-O4'-C4'	-5.53	104.57	110.10
1	AA	6083	DC	N3-C4-N4	5.53	121.87	118.00
1	AA	6635	DA	C5-C6-N6	-5.53	119.27	123.70
1	AA	6662	DA	O4'-C1'-N9	5.53	111.87	108.00
23	AN	34	DC	N3-C4-N4	5.53	121.87	118.00
55	Az	15	DA	C5-C6-N6	-5.53	119.27	123.70
71	BG	22	DC	N3-C4-N4	5.53	121.87	118.00
77	BM	34	DC	N3-C4-N4	5.53	121.87	118.00
83	BS	38	DA	C5-C6-N6	-5.53	119.27	123.70
94	Bd	7	DC	N3-C4-C5	-5.53	119.69	121.90
96	Bf	40	DG	O4'-C1'-N9	5.53	111.87	108.00
100	Bj	36	DA	C5-C6-N6	-5.53	119.27	123.70
118	C8	12	DA	C4-C5-C6	5.53	119.77	117.00
125	CH	1	DA	C5-C6-N6	-5.53	119.27	123.70
136	CS	39	DA	C4-C5-C6	5.53	119.77	117.00
140	CW	27	DC	N3-C4-N4	5.53	121.87	118.00
143	CZ	38	DA	C5-C6-N6	-5.53	119.27	123.70
144	Cb	21	DC	N3-C4-N4	5.53	121.87	118.00
157	Cu	30	DT	O3'-P-O5'	-5.53	93.49	104.00
157	Cu	60	DA	C5-C6-N1	-5.53	114.93	117.70
1	AA	156	DC	N3-C4-N4	5.53	121.87	118.00
1	AA	418	DA	C5-C6-N6	-5.53	119.28	123.70
1	AA	1170	DA	C5-C6-N6	-5.53	119.27	123.70
1	AA	1362	DA	C5-C6-N6	-5.53	119.27	123.70
1	AA	2816	DA	C5-C6-N1	-5.53	114.93	117.70
1	AA	3198	DA	C5-C6-N6	-5.53	119.28	123.70
1	AA	3877	DC	N3-C4-N4	5.53	121.87	118.00
1	AA	5304	DA	C4-C5-C6	5.53	119.77	117.00
1	AA	5525	DA	C4-C5-C6	5.53	119.77	117.00
1	AA	5995	DC	N3-C4-N4	5.53	121.87	118.00
1	AA	6183	DA	C5-C6-N6	-5.53	119.28	123.70
1	AA	7235	DA	C5-C6-N1	-5.53	114.93	117.70
13	AD	32	DC	N3-C4-N4	5.53	121.87	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
16	AG	9	DA	C5-C6-N1	-5.53	114.93	117.70
20	AK	58	DC	N3-C4-C5	-5.53	119.69	121.90
24	AO	35	DA	C5-C6-N6	-5.53	119.28	123.70
34	AY	35	DC	N3-C4-C5	-5.53	119.69	121.90
52	Aw	40	DA	C4-C5-C6	5.53	119.77	117.00
148	Cf	18	DC	N3-C4-N4	5.53	121.87	118.00
148	Cf	20	DA	C5-C6-N1	-5.53	114.93	117.70
1	AA	172	DC	N3-C4-C5	-5.53	119.69	121.90
1	AA	338	DC	O4'-C1'-N1	5.53	111.87	108.00
1	AA	391	DC	N3-C4-N4	5.53	121.87	118.00
1	AA	1353	DG	P-O3'-C3'	5.53	126.34	119.70
1	AA	1770	DC	N3-C4-N4	5.53	121.87	118.00
1	AA	1812	DC	N3-C4-N4	5.53	121.87	118.00
1	AA	2173	DC	N3-C4-C5	-5.53	119.69	121.90
1	AA	2977	DC	N3-C4-N4	5.53	121.87	118.00
1	AA	3792	DA	C4-C5-C6	5.53	119.77	117.00
1	AA	4356	DA	C5-C6-N6	-5.53	119.28	123.70
1	AA	4729	DC	N3-C4-C5	-5.53	119.69	121.90
1	AA	6694	DA	C4-C5-C6	5.53	119.77	117.00
1	AA	6962	DA	C5-C6-N6	-5.53	119.28	123.70
1	AA	6967	DA	C5-C6-N1	-5.53	114.94	117.70
20	AK	10	DT	P-O5'-C5'	-5.53	112.05	120.90
27	AR	27	DA	C5-C6-N6	-5.53	119.28	123.70
27	AR	53	DC	N3-C4-C5	-5.53	119.69	121.90
30	AU	35	DC	N3-C4-N4	5.53	121.87	118.00
31	AV	14	DA	C5-C6-N1	-5.53	114.94	117.70
33	AX	29	DA	C4-C5-C6	5.53	119.77	117.00
38	Ad	36	DA	C5-C6-N6	-5.53	119.28	123.70
39	Af	30	DA	C5-C6-N6	-5.53	119.28	123.70
45	Al	48	DA	C5-C6-N6	-5.53	119.28	123.70
52	Aw	41	DC	N3-C4-N4	5.53	121.87	118.00
56	B0	16	DC	N3-C4-C5	-5.53	119.69	121.90
63	B7	32	DC	N3-C4-N4	5.53	121.87	118.00
66	BB	8	DC	N3-C4-C5	-5.53	119.69	121.90
74	BJ	49	DA	C5-C6-N1	-5.53	114.94	117.70
78	BN	59	DA	C5-C6-N6	-5.53	119.28	123.70
82	BR	34	DA	C5-C6-N6	-5.53	119.28	123.70
102	Bl	14	DC	N3-C4-N4	5.53	121.87	118.00
117	C7	14	DC	N3-C4-N4	5.53	121.87	118.00
117	C7	39	DA	C5-C6-N6	-5.53	119.28	123.70
124	CG	5	DA	C5-C6-N6	-5.53	119.28	123.70
132	CO	46	DG	C1'-O4'-C4'	-5.53	104.57	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
133	CP	45	DC	N3-C4-N4	5.53	121.87	118.00
134	CQ	30	DA	C5-C6-N6	-5.53	119.28	123.70
135	CR	32	DA	C5-C6-N6	-5.53	119.28	123.70
140	CW	19	DA	C5-C6-N1	-5.53	114.94	117.70
143	CZ	9	DA	C4-C5-C6	5.53	119.77	117.00
150	Ch	21	DC	O4'-C1'-N1	5.53	111.87	108.00
151	Ck	6	DA	C5-C6-N6	-5.53	119.28	123.70
1	AA	1015	DA	C5-C6-N6	-5.53	119.28	123.70
1	AA	1363	DA	C5-C6-N1	-5.53	114.94	117.70
1	AA	1984	DC	N3-C4-C5	-5.53	119.69	121.90
1	AA	4559	DC	N3-C4-N4	5.53	121.87	118.00
1	AA	5932	DA	C4-C5-C6	5.53	119.76	117.00
1	AA	6130	DC	O4'-C1'-C2'	-5.53	101.48	105.90
1	AA	6242	DA	C5-C6-N6	-5.53	119.28	123.70
1	AA	6617	DC	N3-C4-C5	-5.53	119.69	121.90
13	AD	2	DA	C5-C6-N6	-5.53	119.28	123.70
16	AG	1	DC	N3-C4-C5	-5.53	119.69	121.90
17	AH	46	DA	C5-C6-N6	-5.53	119.28	123.70
61	B5	33	DC	C1'-O4'-C4'	-5.53	104.57	110.10
66	BB	19	DA	C5-C6-N6	-5.53	119.28	123.70
69	BE	55	DA	O4'-C1'-N9	5.53	111.87	108.00
83	BS	44	DA	C5-C6-N6	-5.53	119.28	123.70
106	Bp	3	DA	C5-C6-N6	-5.53	119.28	123.70
1	AA	311	DA	C5-C6-N6	-5.53	119.28	123.70
1	AA	989	DA	C5-C6-N6	-5.53	119.28	123.70
1	AA	1793	DA	C5-C6-N6	-5.53	119.28	123.70
1	AA	2257	DA	C5-C6-N6	-5.53	119.28	123.70
1	AA	2801	DA	C4-C5-C6	5.53	119.76	117.00
1	AA	2900	DC	N3-C4-N4	5.53	121.87	118.00
1	AA	2983	DC	N3-C4-C5	-5.53	119.69	121.90
1	AA	3261	DA	C5-C6-N6	-5.53	119.28	123.70
1	AA	4851	DA	C5-C6-N6	-5.53	119.28	123.70
1	AA	5332	DA	C4-C5-C6	5.53	119.76	117.00
1	AA	6770	DC	N3-C4-N4	5.53	121.87	118.00
1	AA	6942	DC	N3-C4-N4	5.53	121.87	118.00
35	AZ	14	DC	N3-C4-C5	-5.53	119.69	121.90
43	Aj	35	DA	C4-C5-C6	5.53	119.76	117.00
44	Ak	45	DC	N3-C4-C5	-5.53	119.69	121.90
50	Au	22	DA	C4-C5-C6	5.53	119.76	117.00
51	Av	19	DA	C5-C6-N6	-5.53	119.28	123.70
52	Aw	15	DA	C4'-C3'-C2'	-5.53	98.12	103.10
71	BG	7	DA	P-O5'-C5'	-5.53	112.06	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
73	BI	19	DC	N3-C4-N4	5.53	121.87	118.00
91	Ba	2	DA	C5-C6-N6	-5.53	119.28	123.70
97	Bg	17	DA	C5-C6-N6	-5.53	119.28	123.70
109	Bs	34	DA	C5-C6-N6	-5.53	119.28	123.70
111	C1	15	DA	C5-C6-N1	-5.53	114.94	117.70
117	C7	18	DC	N3-C4-N4	5.53	121.87	118.00
119	CB	31	DA	C5-C6-N6	-5.53	119.28	123.70
120	CC	12	DC	N3-C4-N4	5.53	121.87	118.00
127	CJ	47	DA	C4-C5-C6	5.53	119.76	117.00
128	CK	32	DA	C4-C5-C6	5.53	119.76	117.00
138	CU	8	DA	C5-C6-N6	-5.53	119.28	123.70
141	CX	13	DC	N3-C4-N4	5.53	121.87	118.00
147	Ce	46	DA	C5-C6-N6	-5.53	119.28	123.70
150	Ch	11	DA	C4-C5-C6	5.53	119.76	117.00
1	AA	159	DC	N3-C4-C5	-5.53	119.69	121.90
1	AA	428	DC	N3-C4-C5	-5.53	119.69	121.90
1	AA	456	DA	C5-C6-N6	-5.53	119.28	123.70
1	AA	1052	DA	C4-C5-C6	5.53	119.76	117.00
1	AA	1979	DC	N3-C4-N4	5.53	121.87	118.00
1	AA	2000	DA	C5-C6-N1	-5.53	114.94	117.70
1	AA	3685	DA	C4-C5-C6	5.53	119.76	117.00
1	AA	3865	DA	C5-C6-N6	-5.53	119.28	123.70
1	AA	3925	DA	C5-C6-N6	-5.53	119.28	123.70
1	AA	4204	DA	C5-C6-N6	-5.53	119.28	123.70
1	AA	4268	DA	C5-C6-N1	-5.53	114.94	117.70
1	AA	4616	DC	N3-C4-N4	5.53	121.87	118.00
1	AA	4631	DA	C5-C6-N1	-5.53	114.94	117.70
1	AA	4770	DA	C4-C5-C6	5.53	119.76	117.00
1	AA	4858	DC	N3-C4-C5	-5.53	119.69	121.90
1	AA	6064	DC	N3-C4-N4	5.53	121.87	118.00
2	A0	26	DA	C5-C6-N1	-5.53	114.94	117.70
10	A8	26	DC	N3-C4-C5	-5.53	119.69	121.90
16	AG	30	DC	N3-C4-N4	5.53	121.87	118.00
17	AH	21	DC	N3-C4-N4	5.53	121.87	118.00
27	AR	7	DC	N3-C4-N4	5.53	121.87	118.00
29	AT	15	DC	N3-C4-N4	5.53	121.87	118.00
38	Ad	30	DA	C5-C6-N6	-5.53	119.28	123.70
47	An	11	DC	N3-C4-N4	5.53	121.87	118.00
51	Av	9	DA	C4-C5-C6	5.53	119.76	117.00
52	Aw	16	DA	C5-C6-N1	-5.53	114.94	117.70
58	B2	23	DA	C4-C5-C6	5.53	119.76	117.00
60	B4	35	DC	N3-C4-N4	5.53	121.87	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
80	BP	26	DA	C4-C5-C6	5.53	119.76	117.00
99	Bi	18	DA	C5-C6-N6	-5.53	119.28	123.70
103	Bm	12	DC	N3-C4-N4	5.53	121.87	118.00
104	Bn	58	DC	N3-C4-N4	5.53	121.87	118.00
109	Bs	33	DA	C5-C6-N6	-5.53	119.28	123.70
110	C0	7	DG	O4'-C1'-C2'	-5.53	101.48	105.90
115	C5	9	DC	N3-C4-N4	5.53	121.87	118.00
118	C8	13	DA	C5-C6-N6	-5.53	119.28	123.70
134	CQ	3	DC	N3-C4-N4	5.53	121.87	118.00
134	CQ	31	DA	C5-C6-N6	-5.53	119.28	123.70
142	CY	43	DA	C4-C5-C6	5.53	119.76	117.00
148	Cf	4	DA	C5-C6-N6	-5.53	119.28	123.70
1	AA	389	DC	N3-C4-N4	5.52	121.87	118.00
1	AA	672	DA	C5-C6-N6	-5.52	119.28	123.70
1	AA	1793	DA	C4-C5-C6	5.52	119.76	117.00
1	AA	2427	DA	C5-C6-N6	-5.52	119.28	123.70
1	AA	2837	DA	C4-C5-C6	5.52	119.76	117.00
1	AA	3016	DA	C4-C5-C6	5.52	119.76	117.00
1	AA	3364	DA	C5-C6-N6	-5.52	119.28	123.70
1	AA	3712	DC	N3-C4-N4	5.52	121.87	118.00
1	AA	4153	DC	N3-C4-N4	5.52	121.87	118.00
1	AA	5281	DA	C5-C6-N1	-5.52	114.94	117.70
1	AA	6210	DA	C5-C6-N6	-5.52	119.28	123.70
1	AA	7164	DC	N3-C4-N4	5.52	121.87	118.00
7	A5	41	DA	C4-C5-C6	5.52	119.76	117.00
11	AB	29	DC	N3-C4-C5	-5.52	119.69	121.90
14	AE	33	DA	C4-C5-C6	5.52	119.76	117.00
17	AH	25	DT	O4'-C4'-C3'	-5.52	102.29	104.50
74	BJ	19	DC	O4'-C1'-C2'	-5.52	101.48	105.90
84	BT	50	DC	N3-C4-C5	-5.52	119.69	121.90
93	Bc	46	DC	N3-C4-N4	5.52	121.87	118.00
101	Bk	6	DA	C5-C6-N6	-5.52	119.28	123.70
119	CB	42	DC	N3-C4-N4	5.52	121.87	118.00
152	Cp	24	DA	C5-C6-N6	-5.52	119.28	123.70
1	AA	76	DA	C5-C6-N6	-5.52	119.28	123.70
1	AA	468	DC	N3-C4-C5	-5.52	119.69	121.90
1	AA	605	DC	N3-C4-N4	5.52	121.87	118.00
1	AA	1000	DA	C5-C6-N6	-5.52	119.28	123.70
1	AA	1768	DA	C5-C6-N1	-5.52	114.94	117.70
1	AA	2383	DC	N3-C4-C5	-5.52	119.69	121.90
1	AA	2983	DC	N3-C4-N4	5.52	121.87	118.00
1	AA	3457	DA	C4-C5-C6	5.52	119.76	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3526	DA	C5-C6-N6	-5.52	119.28	123.70
1	AA	4191	DC	N3-C4-N4	5.52	121.87	118.00
1	AA	4569	DC	N3-C4-N4	5.52	121.87	118.00
1	AA	4783	DA	C5-C6-N6	-5.52	119.28	123.70
1	AA	5376	DA	C4-C5-C6	5.52	119.76	117.00
1	AA	5523	DC	N3-C4-N4	5.52	121.87	118.00
12	AC	6	DA	C5-C6-N6	-5.52	119.28	123.70
15	AF	35	DT	O4'-C1'-N1	5.52	111.87	108.00
17	AH	43	DA	C5-C6-N6	-5.52	119.28	123.70
29	AT	19	DA	C5-C6-N6	-5.52	119.28	123.70
29	AT	46	DA	C4-C5-C6	5.52	119.76	117.00
30	AU	9	DA	C5-C6-N6	-5.52	119.28	123.70
30	AU	21	DA	C5-C6-N1	-5.52	114.94	117.70
47	An	36	DA	C5-C6-N6	-5.52	119.28	123.70
58	B2	25	DC	N3-C4-C5	-5.52	119.69	121.90
59	B3	41	DA	C5-C6-N6	-5.52	119.28	123.70
82	BR	61	DC	N3-C4-C5	-5.52	119.69	121.90
88	BX	23	DA	C5-C6-N1	-5.52	114.94	117.70
99	Bi	59	DA	C5-C6-N1	-5.52	114.94	117.70
113	C3	5	DA	C5-C6-N6	-5.52	119.28	123.70
126	CI	42	DA	C5-C6-N6	-5.52	119.28	123.70
143	CZ	19	DA	C5-C6-N6	-5.52	119.28	123.70
162	Cz	31	DA	C4-C5-C6	5.52	119.76	117.00
1	AA	131	DC	N3-C4-N4	5.52	121.86	118.00
1	AA	562	DC	N3-C4-N4	5.52	121.86	118.00
1	AA	1979	DC	N3-C4-C5	-5.52	119.69	121.90
1	AA	3113	DA	C5-C6-N6	-5.52	119.28	123.70
1	AA	3949	DA	C5-C6-N6	-5.52	119.28	123.70
1	AA	3997	DC	N3-C4-N4	5.52	121.86	118.00
1	AA	5108	DA	C5-C6-N6	-5.52	119.28	123.70
1	AA	5723	DA	C4-C5-C6	5.52	119.76	117.00
1	AA	5797	DC	N3-C4-C5	-5.52	119.69	121.90
1	AA	6008	DA	C5-C6-N6	-5.52	119.28	123.70
1	AA	6495	DA	C5-C6-N6	-5.52	119.28	123.70
1	AA	6977	DA	C5-C6-N6	-5.52	119.28	123.70
6	A4	43	DA	O4'-C1'-N9	5.52	111.86	108.00
9	A7	34	DC	N3-C4-C5	-5.52	119.69	121.90
26	AQ	54	DA	C5-C6-N6	-5.52	119.28	123.70
45	Al	42	DC	N3-C4-C5	-5.52	119.69	121.90
155	Cs	37	DA	C5-C6-N6	-5.52	119.28	123.70
1	AA	49	DA	C5-C6-N6	-5.52	119.28	123.70
1	AA	464	DT	O4'-C1'-N1	5.52	111.86	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	669	DC	N3-C4-C5	-5.52	119.69	121.90
1	AA	999	DG	C1'-O4'-C4'	-5.52	104.58	110.10
1	AA	1146	DC	N3-C4-C5	-5.52	119.69	121.90
1	AA	1636	DC	N3-C4-C5	-5.52	119.69	121.90
1	AA	2928	DA	C5-C6-N6	-5.52	119.28	123.70
1	AA	3480	DC	N3-C4-N4	5.52	121.86	118.00
1	AA	4157	DA	C5-C6-N1	-5.52	114.94	117.70
1	AA	6283	DC	N3-C4-N4	5.52	121.86	118.00
1	AA	6392	DG	C1'-O4'-C4'	-5.52	104.58	110.10
1	AA	6393	DC	N3-C4-C5	-5.52	119.69	121.90
1	AA	6826	DA	C5-C6-N6	-5.52	119.28	123.70
1	AA	7005	DC	N3-C4-C5	-5.52	119.69	121.90
1	AA	7189	DA	C5-C6-N6	-5.52	119.28	123.70
3	A1	36	DA	C5-C6-N6	-5.52	119.28	123.70
16	AG	30	DC	N3-C4-C5	-5.52	119.69	121.90
26	AQ	56	DC	N3-C4-N4	5.52	121.86	118.00
31	AV	33	DC	N3-C4-N4	5.52	121.86	118.00
39	Af	23	DA	P-O3'-C3'	5.52	126.32	119.70
70	BF	24	DA	C4-C5-C6	5.52	119.76	117.00
79	BO	6	DA	C5-C6-N1	-5.52	114.94	117.70
102	Bl	20	DC	N3-C4-C5	-5.52	119.69	121.90
103	Bm	14	DC	N3-C4-C5	-5.52	119.69	121.90
104	Bn	58	DC	N3-C4-C5	-5.52	119.69	121.90
113	C3	7	DC	N3-C4-N4	5.52	121.86	118.00
143	CZ	15	DA	C5-C6-N1	-5.52	114.94	117.70
144	Cb	11	DA	C5-C6-N6	-5.52	119.28	123.70
1	AA	113	DA	C5-C6-N6	-5.52	119.28	123.70
1	AA	228	DC	N3-C4-C5	-5.52	119.69	121.90
1	AA	365	DA	C5-C6-N6	-5.52	119.29	123.70
1	AA	1004	DA	C4-C5-C6	5.52	119.76	117.00
1	AA	1332	DC	N3-C4-C5	-5.52	119.69	121.90
1	AA	1537	DA	C5-C6-N6	-5.52	119.29	123.70
1	AA	2071	DA	C5-C6-N6	-5.52	119.29	123.70
1	AA	2541	DA	C4-C5-C6	5.52	119.76	117.00
1	AA	4194	DC	N3-C4-N4	5.52	121.86	118.00
1	AA	4594	DA	C5-C6-N6	-5.52	119.28	123.70
1	AA	4613	DC	N3-C4-N4	5.52	121.86	118.00
1	AA	4657	DC	N3-C4-N4	5.52	121.86	118.00
1	AA	4675	DA	C4-C5-C6	5.52	119.76	117.00
1	AA	4704	DA	C4-C5-C6	5.52	119.76	117.00
1	AA	4727	DA	C5-C6-N6	-5.52	119.29	123.70
1	AA	4940	DC	N3-C4-N4	5.52	121.86	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	4998	DC	N3-C4-N4	5.52	121.86	118.00
1	AA	6331	DA	C5-C6-N1	-5.52	114.94	117.70
1	AA	6697	DA	C4-C5-C6	5.52	119.76	117.00
23	AN	43	DC	N3-C4-N4	5.52	121.86	118.00
25	AP	20	DA	C5-C6-N1	-5.52	114.94	117.70
26	AQ	52	DA	C4-C5-C6	5.52	119.76	117.00
33	AX	18	DA	C5-C6-N6	-5.52	119.28	123.70
34	AY	41	DC	N3-C4-C5	-5.52	119.69	121.90
75	BK	41	DA	C4-C5-C6	5.52	119.76	117.00
77	BM	21	DC	N3-C4-N4	5.52	121.86	118.00
101	Bk	26	DA	C5-C6-N6	-5.52	119.29	123.70
117	C7	8	DA	P-O3'-C3'	5.52	126.32	119.70
125	CH	1	DA	O4'-C1'-N9	5.52	111.86	108.00
152	Cp	25	DT	O4'-C1'-N1	5.52	111.86	108.00
159	Cw	47	DA	C4-C5-C6	5.52	119.76	117.00
162	Cz	24	DA	C5-C6-N6	-5.52	119.29	123.70
1	AA	271	DC	N3-C4-N4	5.52	121.86	118.00
1	AA	1004	DA	C5-C6-N1	-5.52	114.94	117.70
1	AA	3620	DC	N3-C4-C5	-5.52	119.69	121.90
1	AA	3806	DC	N3-C4-C5	-5.52	119.69	121.90
1	AA	3991	DC	N3-C4-C5	-5.52	119.69	121.90
1	AA	4839	DC	N3-C4-N4	5.52	121.86	118.00
1	AA	5554	DC	N3-C4-C5	-5.52	119.69	121.90
1	AA	6516	DA	C5-C6-N6	-5.52	119.29	123.70
16	AG	32	DA	C5-C6-N6	-5.52	119.29	123.70
20	AK	3	DA	C4-C5-C6	5.52	119.76	117.00
24	AO	20	DA	C4-C5-C6	5.52	119.76	117.00
45	Al	17	DC	N3-C4-C5	-5.52	119.69	121.90
47	An	43	DA	C5-C6-N6	-5.52	119.29	123.70
91	Ba	15	DC	N3-C4-N4	5.52	121.86	118.00
91	Ba	42	DC	N3-C4-N4	5.52	121.86	118.00
135	CR	23	DA	C4-C5-C6	5.52	119.76	117.00
1	AA	809	DC	N3-C4-N4	5.51	121.86	118.00
1	AA	1010	DA	C5-C6-N1	-5.51	114.94	117.70
1	AA	1873	DA	C5-C6-N6	-5.51	119.29	123.70
1	AA	2361	DA	C5-C6-N6	-5.51	119.29	123.70
1	AA	2539	DA	C5-C6-N6	-5.51	119.29	123.70
1	AA	2693	DC	N3-C4-C5	-5.51	119.69	121.90
1	AA	3938	DA	C5-C6-N6	-5.51	119.29	123.70
1	AA	4170	DC	N3-C4-N4	5.51	121.86	118.00
1	AA	4522	DC	N3-C4-C5	-5.51	119.69	121.90
1	AA	5464	DC	C1'-O4'-C4'	-5.51	104.59	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6145	DA	C5-C6-N6	-5.51	119.29	123.70
1	AA	6256	DA	C5-C6-N1	-5.51	114.94	117.70
1	AA	6405	DC	N3-C4-N4	5.51	121.86	118.00
1	AA	6503	DC	N3-C4-N4	5.51	121.86	118.00
1	AA	7210	DA	C5-C6-N1	-5.51	114.94	117.70
2	A0	10	DA	C4-C5-C6	5.51	119.76	117.00
3	A1	17	DT	O4'-C1'-C2'	-5.51	101.49	105.90
4	A2	6	DA	C5-C6-N1	-5.51	114.94	117.70
8	A6	50	DA	O4'-C1'-N9	5.51	111.86	108.00
9	A7	21	DA	C4-C5-C6	5.51	119.76	117.00
18	AI	25	DA	C5-C6-N6	-5.51	119.29	123.70
19	AJ	42	DA	C5-C6-N6	-5.51	119.29	123.70
23	AN	25	DA	C5-C6-N6	-5.51	119.29	123.70
23	AN	26	DT	P-O3'-C3'	5.51	126.32	119.70
41	Ah	18	DC	N3-C4-C5	-5.51	119.69	121.90
50	Au	31	DC	N3-C4-N4	5.51	121.86	118.00
61	B5	38	DA	C5-C6-N1	-5.51	114.94	117.70
77	BM	46	DC	N3-C4-N4	5.51	121.86	118.00
88	BX	31	DA	C5-C6-N6	-5.51	119.29	123.70
96	Bf	11	DC	N3-C4-N4	5.51	121.86	118.00
102	Bl	9	DC	N3-C4-N4	5.51	121.86	118.00
104	Bn	50	DG	P-O5'-C5'	-5.51	112.08	120.90
111	C1	40	DC	N3-C4-C5	-5.51	119.69	121.90
114	C4	12	DT	O4'-C1'-C2'	-5.51	101.49	105.90
127	CJ	47	DA	C5-C6-N1	-5.51	114.94	117.70
132	CO	17	DA	C5-C6-N6	-5.51	119.29	123.70
149	Cg	11	DA	C5-C6-N6	-5.51	119.29	123.70
152	Cp	23	DA	C5-C6-N6	-5.51	119.29	123.70
155	Cs	45	DC	N3-C4-N4	5.51	121.86	118.00
159	Cw	30	DC	N3-C4-N4	5.51	121.86	118.00
1	AA	2211	DA	C5-C6-N6	-5.51	119.29	123.70
1	AA	3242	DC	N3-C4-C5	-5.51	119.69	121.90
1	AA	3498	DC	N3-C4-C5	-5.51	119.69	121.90
1	AA	3640	DA	C5-C6-N6	-5.51	119.29	123.70
1	AA	4025	DT	C1'-O4'-C4'	-5.51	104.59	110.10
1	AA	4113	DA	C5-C6-N6	-5.51	119.29	123.70
1	AA	4750	DA	C5-C6-N6	-5.51	119.29	123.70
1	AA	5927	DC	N3-C4-N4	5.51	121.86	118.00
1	AA	6934	DC	N3-C4-C5	-5.51	119.69	121.90
1	AA	6949	DT	P-O3'-C3'	5.51	126.32	119.70
2	A0	26	DA	C4-C5-C6	5.51	119.76	117.00
4	A2	14	DA	C5-C6-N6	-5.51	119.29	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
15	AF	46	DC	N3-C4-C5	-5.51	119.69	121.90
33	AX	45	DA	C5-C6-N1	-5.51	114.94	117.70
37	Ac	31	DC	N3-C4-N4	5.51	121.86	118.00
56	B0	4	DC	N3-C4-N4	5.51	121.86	118.00
66	BB	9	DC	N3-C4-N4	5.51	121.86	118.00
72	BH	23	DA	C5-C6-N6	-5.51	119.29	123.70
130	CM	54	DC	N3-C4-N4	5.51	121.86	118.00
147	Ce	9	DC	N3-C4-N4	5.51	121.86	118.00
162	Cz	3	DA	O4'-C1'-N9	5.51	111.86	108.00
1	AA	7	DA	C5-C6-N6	-5.51	119.29	123.70
1	AA	445	DA	C5-C6-N6	-5.51	119.29	123.70
1	AA	850	DC	O4'-C1'-N1	5.51	111.86	108.00
1	AA	1777	DC	N3-C4-C5	-5.51	119.70	121.90
1	AA	2451	DC	N3-C4-N4	5.51	121.86	118.00
1	AA	2989	DA	C5-C6-N1	-5.51	114.94	117.70
1	AA	3041	DA	C5-C6-N1	-5.51	114.94	117.70
1	AA	3902	DC	N3-C4-N4	5.51	121.86	118.00
1	AA	4445	DC	N3-C4-C5	-5.51	119.70	121.90
1	AA	4777	DA	C4-C5-C6	5.51	119.75	117.00
1	AA	4871	DC	N3-C4-N4	5.51	121.86	118.00
1	AA	5575	DA	C4-C5-C6	5.51	119.76	117.00
1	AA	5968	DA	C5-C6-N6	-5.51	119.29	123.70
1	AA	6206	DC	N3-C4-N4	5.51	121.86	118.00
1	AA	6902	DC	N3-C4-N4	5.51	121.86	118.00
1	AA	6958	DA	C4-C5-C6	5.51	119.75	117.00
1	AA	7024	DA	C5-C6-N6	-5.51	119.29	123.70
23	AN	5	DA	C4-C5-C6	5.51	119.76	117.00
58	B2	2	DC	N3-C4-N4	5.51	121.86	118.00
59	B3	33	DA	C5-C6-N6	-5.51	119.29	123.70
60	B4	41	DC	N3-C4-N4	5.51	121.86	118.00
64	B8	24	DA	C5-C6-N6	-5.51	119.29	123.70
66	BB	5	DC	N3-C4-C5	-5.51	119.70	121.90
105	Bo	33	DC	N3-C4-N4	5.51	121.86	118.00
115	C5	15	DC	N3-C4-N4	5.51	121.86	118.00
1	AA	65	DA	C5-C6-N6	-5.51	119.29	123.70
1	AA	206	DC	N3-C4-C5	-5.51	119.70	121.90
1	AA	461	DA	C5-C6-N6	-5.51	119.29	123.70
1	AA	1572	DA	C5-C6-N6	-5.51	119.29	123.70
1	AA	1763	DA	C5-C6-N6	-5.51	119.29	123.70
1	AA	2210	DA	C5-C6-N6	-5.51	119.29	123.70
1	AA	2236	DA	C5-C6-N6	-5.51	119.29	123.70
1	AA	2434	DA	C5-C6-N6	-5.51	119.29	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2623	DA	C4-C5-C6	5.51	119.75	117.00
1	AA	3160	DA	C5-C6-N1	-5.51	114.95	117.70
1	AA	3658	DT	P-O3'-C3'	5.51	126.31	119.70
1	AA	4153	DC	C1'-O4'-C4'	-5.51	104.59	110.10
1	AA	4449	DC	N3-C4-N4	5.51	121.86	118.00
1	AA	4808	DA	C4-C5-C6	5.51	119.75	117.00
1	AA	4869	DC	N3-C4-N4	5.51	121.86	118.00
1	AA	5299	DG	O4'-C4'-C3'	-5.51	102.30	104.50
1	AA	5668	DA	C5-C6-N6	-5.51	119.29	123.70
1	AA	6400	DC	N3-C4-N4	5.51	121.86	118.00
1	AA	7079	DC	N3-C4-N4	5.51	121.86	118.00
1	AA	7235	DA	C5-C6-N6	-5.51	119.29	123.70
6	A4	46	DA	C5-C6-N6	-5.51	119.29	123.70
7	A5	5	DA	C5-C6-N6	-5.51	119.29	123.70
7	A5	48	DA	C5-C6-N1	-5.51	114.94	117.70
13	AD	4	DA	C5-C6-N6	-5.51	119.29	123.70
32	AW	13	DA	C5-C6-N6	-5.51	119.29	123.70
39	Af	24	DA	O4'-C1'-N9	5.51	111.86	108.00
44	Ak	12	DA	C4-C5-C6	5.51	119.75	117.00
64	B8	28	DC	N3-C4-N4	5.51	121.86	118.00
69	BE	45	DA	C5-C6-N1	-5.51	114.94	117.70
72	BH	17	DA	C5-C6-N1	-5.51	114.94	117.70
83	BS	34	DC	N3-C4-N4	5.51	121.86	118.00
93	Bc	3	DA	C5-C6-N6	-5.51	119.29	123.70
100	Bj	39	DA	C4-C5-C6	5.51	119.75	117.00
113	C3	17	DA	C5-C6-N6	-5.51	119.29	123.70
114	C4	55	DA	C4-C5-C6	5.51	119.75	117.00
116	C6	48	DA	C5-C6-N6	-5.51	119.29	123.70
121	CD	28	DA	C5-C6-N1	-5.51	114.94	117.70
129	CL	41	DA	C5-C6-N6	-5.51	119.29	123.70
132	CO	11	DA	C5-C6-N1	-5.51	114.95	117.70
154	Cr	44	DA	C5-C6-N6	-5.51	119.29	123.70
159	Cw	3	DA	C5-C6-N6	-5.51	119.29	123.70
161	Cy	51	DA	C5-C6-N6	-5.51	119.29	123.70
1	AA	1117	DA	C5-C6-N6	-5.51	119.29	123.70
1	AA	2367	DG	C1'-O4'-C4'	-5.51	104.59	110.10
1	AA	3729	DA	C5-C6-N1	-5.51	114.95	117.70
34	AY	1	DA	O4'-C1'-C2'	-5.51	101.49	105.90
50	Au	43	DA	C5-C6-N6	-5.51	119.29	123.70
50	Au	46	DA	C5-C6-N6	-5.51	119.29	123.70
75	BK	15	DA	C5-C6-N1	-5.51	114.95	117.70
103	Bm	35	DC	N3-C4-C5	-5.51	119.70	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
106	Bp	13	DC	N3-C4-N4	5.51	121.86	118.00
147	Ce	44	DA	C4-C5-C6	5.51	119.75	117.00
149	Cg	33	DA	C5-C6-N6	-5.51	119.29	123.70
1	AA	208	DA	C5-C6-N6	-5.51	119.30	123.70
1	AA	270	DC	N3-C4-C5	-5.51	119.70	121.90
1	AA	552	DT	O4'-C1'-N1	5.51	111.85	108.00
1	AA	632	DC	N3-C4-N4	5.51	121.85	118.00
1	AA	1895	DA	C5-C6-N6	-5.51	119.30	123.70
1	AA	2109	DC	N3-C4-C5	-5.51	119.70	121.90
1	AA	2431	DC	N3-C4-N4	5.51	121.86	118.00
1	AA	2837	DA	C5-C6-N6	-5.51	119.29	123.70
1	AA	4311	DA	C5-C6-N6	-5.51	119.30	123.70
1	AA	4440	DA	C5-C6-N6	-5.51	119.30	123.70
1	AA	5503	DT	P-O3'-C3'	5.51	126.31	119.70
1	AA	5746	DA	C5-C6-N6	-5.51	119.29	123.70
1	AA	7139	DC	N3-C4-N4	5.51	121.86	118.00
6	A4	10	DA	C5-C6-N6	-5.51	119.30	123.70
6	A4	27	DA	C5-C6-N6	-5.51	119.29	123.70
11	AB	13	DC	N3-C4-N4	5.51	121.85	118.00
18	AI	8	DA	C4-C5-C6	5.51	119.75	117.00
19	AJ	46	DC	N3-C4-N4	5.51	121.86	118.00
28	AS	6	DC	N3-C4-N4	5.51	121.85	118.00
35	AZ	33	DA	C5-C6-N6	-5.51	119.30	123.70
38	Ad	29	DT	P-O3'-C3'	5.51	126.31	119.70
51	Av	43	DC	N3-C4-N4	5.51	121.86	118.00
53	Ax	5	DC	N3-C4-N4	5.51	121.85	118.00
53	Ax	45	DC	N3-C4-N4	5.51	121.85	118.00
66	BB	27	DA	C5-C6-N6	-5.51	119.30	123.70
79	BO	1	DA	C4-C5-C6	5.51	119.75	117.00
80	BP	8	DA	O4'-C1'-N9	5.51	111.85	108.00
80	BP	11	DC	N3-C4-N4	5.51	121.86	118.00
90	BZ	34	DC	N3-C4-C5	-5.51	119.70	121.90
93	Bc	19	DC	N3-C4-N4	5.51	121.86	118.00
97	Bg	10	DC	N3-C4-N4	5.51	121.86	118.00
98	Bh	17	DA	C5-C6-N6	-5.51	119.29	123.70
105	Bo	64	DA	C5-C6-N6	-5.51	119.29	123.70
121	CD	6	DC	N3-C4-N4	5.51	121.85	118.00
128	CK	1	DC	N3-C4-N4	5.51	121.86	118.00
130	CM	12	DA	C5-C6-N6	-5.51	119.30	123.70
1	AA	930	DA	C5-C6-N6	-5.50	119.30	123.70
1	AA	1506	DA	C5-C6-N1	-5.50	114.95	117.70
1	AA	1757	DC	N3-C4-N4	5.50	121.85	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1933	DA	C5-C6-N6	-5.50	119.30	123.70
1	AA	2856	DC	N3-C4-N4	5.50	121.85	118.00
20	AK	11	DG	P-O3'-C3'	5.50	126.31	119.70
54	Ay	1	DT	O4'-C1'-N1	5.50	111.85	108.00
59	B3	31	DC	O4'-C1'-N1	5.50	111.85	108.00
60	B4	39	DA	C4-C5-C6	5.50	119.75	117.00
66	BB	8	DC	N3-C4-N4	5.50	121.85	118.00
106	Bp	24	DA	C5-C6-N6	-5.50	119.30	123.70
108	Br	39	DA	C4-C5-C6	5.50	119.75	117.00
1	AA	125	DC	N3-C4-N4	5.50	121.85	118.00
1	AA	1128	DA	C5-C6-N6	-5.50	119.30	123.70
1	AA	1352	DA	C5-C6-N6	-5.50	119.30	123.70
1	AA	1787	DA	C5-C6-N1	-5.50	114.95	117.70
1	AA	1982	DA	C5-C6-N6	-5.50	119.30	123.70
1	AA	2275	DC	N3-C4-N4	5.50	121.85	118.00
1	AA	2796	DC	N3-C4-C5	-5.50	119.70	121.90
1	AA	3986	DA	C5-C6-N6	-5.50	119.30	123.70
1	AA	4015	DC	N3-C4-N4	5.50	121.85	118.00
1	AA	4670	DA	C5-C6-N6	-5.50	119.30	123.70
1	AA	4833	DA	C5-C6-N6	-5.50	119.30	123.70
1	AA	5196	DC	N3-C4-C5	-5.50	119.70	121.90
1	AA	5380	DC	N3-C4-C5	-5.50	119.70	121.90
1	AA	5718	DA	C5-C6-N1	-5.50	114.95	117.70
1	AA	6019	DC	N3-C4-C5	-5.50	119.70	121.90
1	AA	6121	DA	C4-C5-C6	5.50	119.75	117.00
1	AA	6862	DC	N3-C4-C5	-5.50	119.70	121.90
1	AA	6878	DA	C4-C5-C6	5.50	119.75	117.00
1	AA	7096	DC	N3-C4-N4	5.50	121.85	118.00
7	A5	13	DA	C4-C5-C6	5.50	119.75	117.00
22	AM	31	DA	C5-C6-N6	-5.50	119.30	123.70
37	Ac	19	DA	C5-C6-N6	-5.50	119.30	123.70
41	Ah	10	DC	N3-C4-C5	-5.50	119.70	121.90
43	Aj	11	DA	C5-C6-N1	-5.50	114.95	117.70
51	Av	18	DC	N3-C4-N4	5.50	121.85	118.00
54	Ay	31	DA	C5-C6-N6	-5.50	119.30	123.70
67	BC	8	DA	C5-C6-N6	-5.50	119.30	123.70
68	BD	24	DC	N3-C4-C5	-5.50	119.70	121.90
73	BI	17	DT	C1'-O4'-C4'	-5.50	104.60	110.10
74	BJ	38	DA	C5-C6-N1	-5.50	114.95	117.70
78	BN	25	DA	C5-C6-N1	-5.50	114.95	117.70
78	BN	61	DC	N3-C4-N4	5.50	121.85	118.00
90	BZ	26	DA	C5-C6-N1	-5.50	114.95	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
93	Bc	21	DC	N3-C4-C5	-5.50	119.70	121.90
96	Bf	31	DA	C4-C5-C6	5.50	119.75	117.00
103	Bm	41	DA	C5-C6-N6	-5.50	119.30	123.70
105	Bo	21	DC	N3-C4-N4	5.50	121.85	118.00
118	C8	4	DA	C4-C5-C6	5.50	119.75	117.00
123	CF	39	DA	P-O3'-C3'	5.50	126.30	119.70
135	CR	16	DA	C5-C6-N6	-5.50	119.30	123.70
142	CY	25	DC	N3-C4-N4	5.50	121.85	118.00
147	Ce	24	DA	C5-C6-N1	-5.50	114.95	117.70
151	Ck	19	DA	C5-C6-N1	-5.50	114.95	117.70
153	Cq	23	DA	C5-C6-N1	-5.50	114.95	117.70
1	AA	462	DA	C5-C6-N6	-5.50	119.30	123.70
1	AA	1695	DA	C5-C6-N6	-5.50	119.30	123.70
1	AA	1894	DA	C4-C5-C6	5.50	119.75	117.00
1	AA	3832	DC	N3-C4-N4	5.50	121.85	118.00
1	AA	4187	DC	N3-C4-C5	-5.50	119.70	121.90
1	AA	5859	DA	C4-C5-C6	5.50	119.75	117.00
1	AA	6032	DA	C5-C6-N1	-5.50	114.95	117.70
1	AA	6569	DC	N3-C4-N4	5.50	121.85	118.00
14	AE	5	DC	O4'-C1'-C2'	-5.50	101.50	105.90
17	AH	38	DC	N3-C4-N4	5.50	121.85	118.00
30	AU	19	DA	C5-C6-N1	-5.50	114.95	117.70
30	AU	31	DA	C5-C6-N6	-5.50	119.30	123.70
31	AV	52	DA	C5-C6-N1	-5.50	114.95	117.70
43	Aj	6	DA	C1'-O4'-C4'	-5.50	104.60	110.10
69	BE	55	DA	C5-C6-N6	-5.50	119.30	123.70
71	BG	36	DA	C5-C6-N6	-5.50	119.30	123.70
90	BZ	34	DC	N3-C4-N4	5.50	121.85	118.00
117	C7	28	DA	C5-C6-N6	-5.50	119.30	123.70
121	CD	28	DA	C4-C5-C6	5.50	119.75	117.00
123	CF	39	DA	C5-C6-N6	-5.50	119.30	123.70
127	CJ	26	DC	N3-C4-C5	-5.50	119.70	121.90
133	CP	48	DC	N3-C4-C5	-5.50	119.70	121.90
147	Ce	2	DA	C5-C6-N6	-5.50	119.30	123.70
1	AA	5609	DA	C4-C5-C6	5.50	119.75	117.00
1	AA	6565	DC	N3-C4-C5	-5.50	119.70	121.90
1	AA	6944	DC	N3-C4-N4	5.50	121.85	118.00
8	A6	17	DA	C5-C6-N6	-5.50	119.30	123.70
21	AL	27	DA	C4-C5-C6	5.50	119.75	117.00
36	Ab	9	DA	C5-C6-N6	-5.50	119.30	123.70
75	BK	4	DA	O4'-C1'-C2'	-5.50	101.50	105.90
124	CG	13	DC	N3-C4-N4	5.50	121.85	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
140	CW	22	DA	C5-C6-N6	-5.50	119.30	123.70
153	Cq	40	DA	C5-C6-N6	-5.50	119.30	123.70
155	Cs	35	DA	C4-C5-C6	5.50	119.75	117.00
1	AA	67	DA	C5-C6-N6	-5.50	119.30	123.70
1	AA	86	DC	N3-C4-N4	5.50	121.85	118.00
1	AA	147	DC	C1'-O4'-C4'	-5.50	104.60	110.10
1	AA	170	DA	C5-C6-N6	-5.50	119.30	123.70
1	AA	511	DA	C5-C6-N1	-5.50	114.95	117.70
1	AA	632	DC	N3-C4-C5	-5.50	119.70	121.90
1	AA	940	DA	C5-C6-N6	-5.50	119.30	123.70
1	AA	1263	DT	P-O3'-C3'	5.50	126.30	119.70
1	AA	1864	DC	N3-C4-N4	5.50	121.85	118.00
1	AA	3043	DC	N3-C4-C5	-5.50	119.70	121.90
1	AA	3174	DA	C5-C6-N6	-5.50	119.30	123.70
1	AA	3679	DA	C5-C6-N6	-5.50	119.30	123.70
1	AA	4611	DC	N3-C4-N4	5.50	121.85	118.00
1	AA	5060	DA	C4-C5-C6	5.50	119.75	117.00
1	AA	5195	DT	O4'-C1'-C2'	-5.50	101.50	105.90
1	AA	5930	DA	C5-C6-N6	-5.50	119.30	123.70
1	AA	6068	DA	C5-C6-N6	-5.50	119.30	123.70
1	AA	6287	DC	O4'-C1'-N1	5.50	111.85	108.00
1	AA	6804	DA	C5-C6-N6	-5.50	119.30	123.70
1	AA	6842	DA	C5-C6-N6	-5.50	119.30	123.70
1	AA	7168	DA	C5-C6-N6	-5.50	119.30	123.70
4	A2	39	DA	O4'-C1'-C2'	-5.50	101.50	105.90
18	AI	24	DA	C5-C6-N1	-5.50	114.95	117.70
27	AR	45	DC	N3-C4-C5	-5.50	119.70	121.90
35	AZ	1	DA	C4-C5-C6	5.50	119.75	117.00
41	Ah	13	DA	C5-C6-N6	-5.50	119.30	123.70
43	Aj	5	DC	N3-C4-C5	-5.50	119.70	121.90
51	Av	2	DA	C5-C6-N6	-5.50	119.30	123.70
75	BK	15	DA	C5'-C4'-C3'	-5.50	104.20	114.10
78	BN	39	DC	O4'-C1'-N1	5.50	111.85	108.00
88	BX	17	DA	C4-C5-C6	5.50	119.75	117.00
89	BY	24	DC	N3-C4-C5	-5.50	119.70	121.90
89	BY	40	DA	C5-C6-N6	-5.50	119.30	123.70
105	Bo	59	DC	N3-C4-C5	-5.50	119.70	121.90
117	C7	19	DC	N3-C4-C5	-5.50	119.70	121.90
130	CM	14	DA	O4'-C1'-C2'	-5.50	101.50	105.90
149	Cg	4	DC	N3-C4-C5	-5.50	119.70	121.90
151	Ck	36	DA	C5-C6-N6	-5.50	119.30	123.70
162	Cz	48	DA	C5-C6-N1	-5.50	114.95	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	83	DA	C4-C5-C6	5.50	119.75	117.00
1	AA	145	DA	C5-C6-N1	-5.50	114.95	117.70
1	AA	1544	DC	N3-C4-N4	5.50	121.85	118.00
1	AA	1603	DC	N3-C4-C5	-5.50	119.70	121.90
1	AA	1793	DA	C5-C6-N1	-5.50	114.95	117.70
1	AA	2802	DA	C5-C6-N1	-5.50	114.95	117.70
1	AA	2823	DA	C5-C6-N6	-5.50	119.30	123.70
1	AA	2873	DC	N3-C4-N4	5.50	121.85	118.00
1	AA	3153	DA	C5-C6-N6	-5.50	119.30	123.70
1	AA	4090	DC	N3-C4-N4	5.50	121.85	118.00
1	AA	5184	DA	C5-C6-N6	-5.50	119.30	123.70
1	AA	5249	DA	C5-C6-N6	-5.50	119.30	123.70
1	AA	5314	DA	C4-C5-C6	5.50	119.75	117.00
1	AA	6775	DA	C5-C6-N1	-5.50	114.95	117.70
9	A7	28	DC	N3-C4-N4	5.50	121.85	118.00
10	A8	17	DA	C5-C6-N6	-5.50	119.30	123.70
12	AC	28	DA	C5-C6-N6	-5.50	119.30	123.70
15	AF	18	DA	C5-C6-N6	-5.50	119.30	123.70
19	AJ	4	DA	C5-C6-N6	-5.50	119.30	123.70
21	AL	18	DC	N3-C4-N4	5.50	121.85	118.00
38	Ad	34	DC	N3-C4-N4	5.50	121.85	118.00
72	BH	3	DA	C5-C6-N6	-5.50	119.30	123.70
74	BJ	19	DC	N3-C4-N4	5.50	121.85	118.00
80	BP	43	DC	N3-C4-C5	-5.50	119.70	121.90
85	BU	49	DA	C4-C5-C6	5.50	119.75	117.00
91	Ba	43	DA	C4-C5-C6	5.50	119.75	117.00
109	Bs	36	DC	N3-C4-N4	5.50	121.85	118.00
119	CB	33	DC	N3-C4-N4	5.50	121.85	118.00
139	CV	24	DA	C5-C6-N1	-5.50	114.95	117.70
145	Cc	54	DC	N3-C4-C5	-5.50	119.70	121.90
1	AA	1028	DA	C4-C5-C6	5.50	119.75	117.00
1	AA	1344	DA	C5-C6-N6	-5.50	119.30	123.70
1	AA	1684	DC	N3-C4-N4	5.50	121.85	118.00
1	AA	1967	DC	N3-C4-C5	-5.50	119.70	121.90
1	AA	2913	DC	N3-C4-N4	5.50	121.85	118.00
1	AA	3511	DA	C5-C6-N1	-5.50	114.95	117.70
1	AA	3601	DC	N3-C4-N4	5.50	121.85	118.00
1	AA	3973	DA	C5-C6-N6	-5.50	119.30	123.70
1	AA	4147	DA	C5-C6-N6	-5.50	119.30	123.70
1	AA	4418	DC	N3-C4-N4	5.50	121.85	118.00
1	AA	5937	DA	C4-C5-C6	5.50	119.75	117.00
1	AA	6875	DA	O4'-C1'-N9	5.50	111.85	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	7071	DC	N3-C4-C5	-5.50	119.70	121.90
8	A6	9	DA	C4-C5-C6	5.50	119.75	117.00
18	AI	8	DA	C5-C6-N6	-5.50	119.30	123.70
23	AN	8	DC	N3-C4-C5	-5.50	119.70	121.90
45	Al	40	DA	C5-C6-N1	-5.50	114.95	117.70
46	Am	2	DA	C4-C5-C6	5.50	119.75	117.00
49	As	40	DC	N3-C4-N4	5.50	121.85	118.00
65	B9	14	DC	N3-C4-C5	-5.50	119.70	121.90
78	BN	9	DA	C5-C6-N1	-5.50	114.95	117.70
79	BO	30	DC	N3-C4-N4	5.50	121.85	118.00
83	BS	10	DA	C5-C6-N6	-5.50	119.30	123.70
87	BW	17	DA	C5-C6-N6	-5.50	119.30	123.70
137	CT	6	DA	C5-C6-N1	-5.50	114.95	117.70
144	Cb	34	DA	C5-C6-N6	-5.50	119.30	123.70
1	AA	124	DC	N3-C4-N4	5.49	121.85	118.00
1	AA	732	DC	N3-C4-N4	5.49	121.84	118.00
1	AA	802	DA	C4-C5-C6	5.49	119.75	117.00
1	AA	1256	DA	C5-C6-N6	-5.49	119.31	123.70
1	AA	1259	DA	C1'-O4'-C4'	-5.49	104.61	110.10
1	AA	1525	DA	C4-C5-C6	5.49	119.75	117.00
1	AA	3237	DG	O4'-C1'-C2'	-5.49	101.50	105.90
1	AA	3652	DC	N3-C4-N4	5.49	121.84	118.00
1	AA	3940	DA	C5-C6-N6	-5.49	119.31	123.70
1	AA	3945	DA	C5-C6-N6	-5.49	119.31	123.70
1	AA	5907	DA	C5-C6-N6	-5.49	119.31	123.70
1	AA	6084	DC	N3-C4-N4	5.49	121.84	118.00
1	AA	6218	DA	C5-C6-N6	-5.49	119.31	123.70
1	AA	6282	DC	N3-C4-N4	5.49	121.84	118.00
1	AA	6286	DC	O4'-C1'-N1	5.49	111.84	108.00
1	AA	6827	DA	C5-C6-N6	-5.49	119.30	123.70
3	A1	34	DG	C1'-O4'-C4'	-5.49	104.61	110.10
4	A2	3	DA	C5-C6-N6	-5.49	119.31	123.70
13	AD	30	DA	C5-C6-N6	-5.49	119.31	123.70
18	AI	39	DA	C5-C6-N1	-5.49	114.95	117.70
19	AJ	19	DA	C5-C6-N6	-5.49	119.31	123.70
23	AN	1	DG	P-O3'-C3'	5.49	126.29	119.70
26	AQ	27	DC	N3-C4-C5	-5.49	119.70	121.90
59	B3	39	DC	N3-C4-C5	-5.49	119.70	121.90
64	B8	21	DC	N3-C4-N4	5.49	121.84	118.00
81	BQ	31	DA	C5-C6-N6	-5.49	119.31	123.70
96	Bf	36	DA	C5-C6-N6	-5.49	119.31	123.70
97	Bg	19	DC	O4'-C1'-N1	5.49	111.85	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
99	Bi	51	DC	N3-C4-C5	-5.49	119.70	121.90
105	Bo	18	DA	C5-C6-N6	-5.49	119.31	123.70
114	C4	12	DT	O4'-C4'-C3'	-5.49	102.30	104.50
114	C4	58	DC	N3-C4-C5	-5.49	119.70	121.90
139	CV	4	DA	C5-C6-N6	-5.49	119.31	123.70
147	Ce	23	DA	C5-C6-N6	-5.49	119.31	123.70
152	Cp	5	DA	C5-C6-N6	-5.49	119.31	123.70
1	AA	480	DC	N3-C4-N4	5.49	121.84	118.00
1	AA	4291	DC	N3-C4-C5	-5.49	119.70	121.90
1	AA	4904	DT	O4'-C1'-C2'	-5.49	101.51	105.90
1	AA	4984	DC	O4'-C1'-N1	5.49	111.84	108.00
1	AA	5223	DC	O4'-C1'-C2'	-5.49	101.51	105.90
1	AA	7077	DC	N3-C4-C5	-5.49	119.70	121.90
4	A2	49	DA	C5-C6-N6	-5.49	119.31	123.70
63	B7	40	DA	C4-C5-C6	5.49	119.75	117.00
97	Bg	19	DC	N3-C4-C5	-5.49	119.70	121.90
125	CH	40	DA	C5-C6-N6	-5.49	119.31	123.70
138	CU	16	DC	N3-C4-N4	5.49	121.84	118.00
143	CZ	28	DA	C5-C6-N6	-5.49	119.31	123.70
1	AA	278	DG	P-O3'-C3'	5.49	126.29	119.70
1	AA	531	DC	N3-C4-N4	5.49	121.84	118.00
1	AA	802	DA	C5-C6-N6	-5.49	119.31	123.70
1	AA	905	DT	O4'-C1'-N1	5.49	111.84	108.00
1	AA	1154	DC	N3-C4-N4	5.49	121.84	118.00
1	AA	1180	DA	C5-C6-N6	-5.49	119.31	123.70
1	AA	1388	DA	C5-C6-N6	-5.49	119.31	123.70
1	AA	1777	DC	N3-C4-N4	5.49	121.84	118.00
1	AA	1858	DA	C5-C6-N6	-5.49	119.31	123.70
1	AA	2076	DC	N3-C4-C5	-5.49	119.70	121.90
1	AA	2438	DA	C4-C5-C6	5.49	119.75	117.00
1	AA	2806	DA	C5-C6-N6	-5.49	119.31	123.70
1	AA	4061	DC	N3-C4-N4	5.49	121.84	118.00
1	AA	4954	DA	C5-C6-N6	-5.49	119.31	123.70
1	AA	5185	DC	N3-C4-C5	-5.49	119.70	121.90
19	AJ	17	DA	C4-C5-C6	5.49	119.75	117.00
38	Ad	37	DA	C5-C6-N6	-5.49	119.31	123.70
47	An	2	DA	C4-C5-C6	5.49	119.75	117.00
50	Au	20	DA	C5-C6-N6	-5.49	119.31	123.70
58	B2	25	DC	N3-C4-N4	5.49	121.84	118.00
60	B4	29	DA	C5-C6-N6	-5.49	119.31	123.70
68	BD	3	DC	N3-C4-C5	-5.49	119.70	121.90
76	BL	11	DC	N3-C4-N4	5.49	121.84	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
82	BR	15	DA	C5-C6-N6	-5.49	119.31	123.70
83	BS	37	DC	N3-C4-N4	5.49	121.84	118.00
97	Bg	12	DA	C5-C6-N6	-5.49	119.31	123.70
113	C3	7	DC	O4'-C1'-C2'	-5.49	101.51	105.90
124	CG	19	DC	O4'-C1'-C2'	-5.49	101.51	105.90
129	CL	45	DC	N3-C4-N4	5.49	121.84	118.00
157	Cu	32	DA	C5-C6-N1	-5.49	114.95	117.70
1	AA	124	DC	N3-C4-C5	-5.49	119.70	121.90
1	AA	291	DC	N3-C4-N4	5.49	121.84	118.00
1	AA	341	DA	C5-C6-N6	-5.49	119.31	123.70
1	AA	1004	DA	C5-C6-N6	-5.49	119.31	123.70
1	AA	1095	DA	C5-C6-N6	-5.49	119.31	123.70
1	AA	1708	DA	C5-C6-N6	-5.49	119.31	123.70
1	AA	2801	DA	C5-C6-N1	-5.49	114.96	117.70
1	AA	3268	DC	N3-C4-N4	5.49	121.84	118.00
1	AA	4602	DC	N3-C4-N4	5.49	121.84	118.00
1	AA	4755	DC	N3-C4-N4	5.49	121.84	118.00
1	AA	4958	DC	N3-C4-C5	-5.49	119.70	121.90
1	AA	4983	DA	C5-C6-N6	-5.49	119.31	123.70
1	AA	5172	DC	N3-C4-C5	-5.49	119.70	121.90
1	AA	5255	DC	N3-C4-C5	-5.49	119.70	121.90
1	AA	6599	DA	C5-C6-N6	-5.49	119.31	123.70
1	AA	6783	DA	C5-C6-N6	-5.49	119.31	123.70
1	AA	6802	DC	O4'-C1'-C2'	-5.49	101.51	105.90
11	AB	24	DA	C5-C6-N6	-5.49	119.31	123.70
27	AR	43	DA	C5-C6-N6	-5.49	119.31	123.70
53	Ax	26	DA	C5-C6-N1	-5.49	114.96	117.70
56	B0	12	DC	N3-C4-C5	-5.49	119.70	121.90
57	B1	58	DA	C5-C6-N6	-5.49	119.31	123.70
89	BY	9	DC	N3-C4-C5	-5.49	119.70	121.90
99	Bi	8	DA	C5-C6-N6	-5.49	119.31	123.70
117	C7	34	DA	C5-C6-N6	-5.49	119.31	123.70
119	CB	7	DA	C5-C6-N6	-5.49	119.31	123.70
125	CH	31	DA	C5-C6-N6	-5.49	119.31	123.70
126	CI	7	DC	C1'-O4'-C4'	-5.49	104.61	110.10
132	CO	28	DA	C4-C5-C6	5.49	119.75	117.00
134	CQ	1	DA	C4-C5-C6	5.49	119.75	117.00
142	CY	11	DA	C4-C5-C6	5.49	119.74	117.00
143	CZ	20	DA	C5-C6-N6	-5.49	119.31	123.70
152	Cp	24	DA	C4-C5-C6	5.49	119.74	117.00
1	AA	2823	DA	C4-C5-C6	5.49	119.74	117.00
1	AA	5420	DA	C5-C6-N1	-5.49	114.96	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5727	DA	C4-C5-C6	5.49	119.74	117.00
1	AA	5849	DC	N3-C4-N4	5.49	121.84	118.00
1	AA	6546	DT	O4'-C1'-N1	5.49	111.84	108.00
18	AI	17	DA	C5-C6-N6	-5.49	119.31	123.70
31	AV	4	DA	C5-C6-N6	-5.49	119.31	123.70
62	B6	20	DA	C5-C6-N6	-5.49	119.31	123.70
105	Bo	13	DA	C4-C5-C6	5.49	119.74	117.00
107	Bq	24	DA	C5-C6-N6	-5.49	119.31	123.70
139	CV	48	DC	N3-C4-N4	5.49	121.84	118.00
1	AA	79	DC	N3-C4-C5	-5.49	119.70	121.90
1	AA	276	DA	C5-C6-N1	-5.49	114.96	117.70
1	AA	660	DA	C5-C6-N1	-5.49	114.96	117.70
1	AA	766	DC	N3-C4-C5	-5.49	119.70	121.90
1	AA	896	DA	C5-C6-N6	-5.49	119.31	123.70
1	AA	1164	DC	N3-C4-N4	5.49	121.84	118.00
1	AA	1435	DA	C5-C6-N6	-5.49	119.31	123.70
1	AA	1628	DA	C5-C6-N1	-5.49	114.96	117.70
1	AA	2284	DA	C5-C6-N6	-5.49	119.31	123.70
1	AA	2471	DT	P-O3'-C3'	5.49	126.28	119.70
1	AA	2630	DA	C5-C6-N6	-5.49	119.31	123.70
1	AA	3141	DC	N3-C4-N4	5.49	121.84	118.00
1	AA	3211	DA	C5-C6-N6	-5.49	119.31	123.70
1	AA	3438	DC	N3-C4-N4	5.49	121.84	118.00
1	AA	3661	DC	N3-C4-N4	5.49	121.84	118.00
1	AA	3763	DA	C5-C6-N6	-5.49	119.31	123.70
1	AA	3803	DC	N3-C4-N4	5.49	121.84	118.00
1	AA	4449	DC	N3-C4-C5	-5.49	119.71	121.90
1	AA	4564	DA	C5-C6-N6	-5.49	119.31	123.70
1	AA	5379	DC	N3-C4-N4	5.49	121.84	118.00
6	A4	42	DA	C5-C6-N6	-5.49	119.31	123.70
8	A6	18	DA	C5-C6-N6	-5.49	119.31	123.70
11	AB	17	DC	N3-C4-N4	5.49	121.84	118.00
11	AB	38	DC	N3-C4-C5	-5.49	119.71	121.90
17	AH	24	DA	C5-C6-N1	-5.49	114.96	117.70
27	AR	34	DA	C5-C6-N6	-5.49	119.31	123.70
33	AX	22	DC	N3-C4-C5	-5.49	119.70	121.90
35	AZ	1	DA	C5-C6-N6	-5.49	119.31	123.70
35	AZ	18	DA	C4-C5-C6	5.49	119.74	117.00
37	Ac	37	DC	P-O3'-C3'	5.49	126.28	119.70
40	Ag	47	DA	C5-C6-N6	-5.49	119.31	123.70
72	BH	1	DC	O4'-C1'-N1	5.49	111.84	108.00
79	BO	42	DC	N3-C4-C5	-5.49	119.70	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
90	BZ	41	DA	C4-C5-C6	5.49	119.74	117.00
111	C1	37	DA	O4'-C1'-C2'	-5.49	101.51	105.90
123	CF	28	DA	C5-C6-N6	-5.49	119.31	123.70
150	Ch	38	DA	C5-C6-N1	-5.49	114.96	117.70
157	Cu	11	DA	C5-C6-N6	-5.49	119.31	123.70
159	Cw	33	DA	C5-C6-N1	-5.49	114.96	117.70
162	Cz	42	DA	C5-C6-N6	-5.49	119.31	123.70
1	AA	1259	DA	C5-C6-N6	-5.48	119.31	123.70
1	AA	4366	DA	C4-C5-C6	5.48	119.74	117.00
1	AA	5173	DC	N3-C4-N4	5.48	121.84	118.00
1	AA	5652	DA	C4-C5-C6	5.48	119.74	117.00
4	A2	49	DA	O4'-C1'-N9	5.48	111.84	108.00
7	A5	25	DA	C5-C6-N6	-5.48	119.31	123.70
13	AD	37	DA	C5-C6-N6	-5.48	119.31	123.70
19	AJ	47	DA	C5-C6-N6	-5.48	119.31	123.70
29	AT	24	DC	N3-C4-N4	5.48	121.84	118.00
31	AV	22	DA	C5-C6-N6	-5.48	119.31	123.70
68	BD	29	DA	C5-C6-N6	-5.48	119.31	123.70
69	BE	56	DA	C5-C6-N6	-5.48	119.31	123.70
105	Bo	21	DC	N3-C4-C5	-5.48	119.71	121.90
128	CK	45	DA	C5-C6-N6	-5.48	119.31	123.70
137	CT	39	DC	N3-C4-C5	-5.48	119.71	121.90
138	CU	17	DA	C5-C6-N6	-5.48	119.31	123.70
143	CZ	8	DA	C4-C5-C6	5.48	119.74	117.00
155	Cs	38	DG	C1'-O4'-C4'	-5.48	104.62	110.10
1	AA	296	DC	N3-C4-N4	5.48	121.84	118.00
1	AA	474	DA	C5-C6-N6	-5.48	119.31	123.70
1	AA	494	DA	C5-C6-N6	-5.48	119.31	123.70
1	AA	578	DC	O4'-C1'-C2'	-5.48	101.51	105.90
1	AA	930	DA	C5-C6-N1	-5.48	114.96	117.70
1	AA	2291	DA	C5-C6-N6	-5.48	119.31	123.70
1	AA	3058	DC	N3-C4-C5	-5.48	119.71	121.90
1	AA	3188	DA	C4-C5-C6	5.48	119.74	117.00
1	AA	3710	DC	N3-C4-C5	-5.48	119.71	121.90
1	AA	4521	DA	O4'-C1'-C2'	-5.48	101.51	105.90
1	AA	4701	DA	C5-C6-N6	-5.48	119.31	123.70
1	AA	4731	DG	O4'-C1'-C2'	-5.48	101.51	105.90
1	AA	5536	DA	C4-C5-C6	5.48	119.74	117.00
1	AA	6174	DA	C5-C6-N6	-5.48	119.31	123.70
1	AA	6766	DA	C5-C6-N6	-5.48	119.31	123.70
1	AA	7114	DT	O4'-C1'-N1	5.48	111.84	108.00
1	AA	7152	DA	C5-C6-N6	-5.48	119.31	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	A6	12	DA	C5-C6-N6	-5.48	119.31	123.70
11	AB	3	DC	N3-C4-N4	5.48	121.84	118.00
27	AR	10	DC	N3-C4-C5	-5.48	119.71	121.90
34	AY	12	DG	O4'-C1'-N9	5.48	111.84	108.00
35	AZ	53	DC	N3-C4-N4	5.48	121.84	118.00
43	Aj	38	DA	O4'-C1'-N9	5.48	111.84	108.00
52	Aw	2	DC	N3-C4-N4	5.48	121.84	118.00
62	B6	6	DA	C5-C6-N6	-5.48	119.31	123.70
71	BG	10	DA	P-O5'-C5'	-5.48	112.13	120.90
74	BJ	2	DA	C5-C6-N6	-5.48	119.31	123.70
79	BO	9	DG	O3'-P-O5'	-5.48	93.58	104.00
80	BP	7	DA	C5-C6-N6	-5.48	119.31	123.70
100	Bj	5	DA	C5-C6-N6	-5.48	119.31	123.70
112	C2	31	DA	C5-C6-N1	-5.48	114.96	117.70
115	C5	20	DA	C5-C6-N6	-5.48	119.31	123.70
123	CF	1	DC	N3-C4-N4	5.48	121.84	118.00
1	AA	640	DC	N3-C4-N4	5.48	121.84	118.00
1	AA	650	DA	C5-C6-N6	-5.48	119.31	123.70
1	AA	1010	DA	C5-C6-N6	-5.48	119.32	123.70
1	AA	1142	DC	N3-C4-C5	-5.48	119.71	121.90
1	AA	1558	DC	N3-C4-N4	5.48	121.84	118.00
1	AA	1594	DG	C3'-C2'-C1'	-5.48	95.92	102.50
1	AA	1990	DA	C5-C6-N1	-5.48	114.96	117.70
1	AA	2221	DC	N3-C4-N4	5.48	121.84	118.00
1	AA	2571	DC	N3-C4-N4	5.48	121.84	118.00
1	AA	2768	DC	N3-C4-C5	-5.48	119.71	121.90
1	AA	2812	DC	O4'-C1'-C2'	-5.48	101.52	105.90
1	AA	2813	DC	N3-C4-C5	-5.48	119.71	121.90
1	AA	3637	DC	N3-C4-N4	5.48	121.84	118.00
1	AA	4164	DA	C4-C5-C6	5.48	119.74	117.00
1	AA	4321	DA	C4-C5-C6	5.48	119.74	117.00
1	AA	4675	DA	C5-C6-N6	-5.48	119.32	123.70
1	AA	5662	DA	C5-C6-N6	-5.48	119.31	123.70
1	AA	6545	DC	N3-C4-C5	-5.48	119.71	121.90
1	AA	6636	DA	C5-C6-N6	-5.48	119.32	123.70
1	AA	6844	DA	C5-C6-N6	-5.48	119.32	123.70
13	AD	42	DA	C4-C5-C6	5.48	119.74	117.00
20	AK	16	DA	C4-C5-C6	5.48	119.74	117.00
25	AP	38	DA	C5-C6-N6	-5.48	119.31	123.70
30	AU	22	DC	N3-C4-C5	-5.48	119.71	121.90
31	AV	11	DC	N3-C4-N4	5.48	121.84	118.00
35	AZ	32	DC	N3-C4-N4	5.48	121.84	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
36	Ab	5	DC	N3-C4-N4	5.48	121.84	118.00
41	Ah	38	DA	C5-C6-N6	-5.48	119.31	123.70
83	BS	44	DA	C4-C5-C6	5.48	119.74	117.00
84	BT	12	DC	N3-C4-C5	-5.48	119.71	121.90
90	BZ	5	DA	C5-C6-N1	-5.48	114.96	117.70
130	CM	51	DA	C5-C6-N6	-5.48	119.31	123.70
134	CQ	21	DC	N3-C4-N4	5.48	121.84	118.00
134	CQ	23	DA	C4-C5-C6	5.48	119.74	117.00
145	Cc	54	DC	N3-C4-N4	5.48	121.84	118.00
147	Ce	40	DA	C4-C5-C6	5.48	119.74	117.00
159	Cw	33	DA	C5-C6-N6	-5.48	119.31	123.70
160	Cx	35	DA	P-O3'-C3'	5.48	126.28	119.70
161	Cy	13	DA	C5-C6-N6	-5.48	119.32	123.70
1	AA	206	DC	N3-C4-N4	5.48	121.83	118.00
1	AA	721	DC	N3-C4-C5	-5.48	119.71	121.90
1	AA	1092	DC	N3-C4-N4	5.48	121.84	118.00
1	AA	2601	DC	P-O3'-C3'	5.48	126.28	119.70
1	AA	2991	DC	N3-C4-C5	-5.48	119.71	121.90
1	AA	4244	DA	C5-C6-N6	-5.48	119.32	123.70
1	AA	4541	DC	N3-C4-N4	5.48	121.83	118.00
1	AA	4752	DA	C5-C6-N6	-5.48	119.32	123.70
1	AA	6778	DC	N3-C4-N4	5.48	121.83	118.00
11	AB	16	DC	O4'-C1'-C2'	-5.48	101.52	105.90
12	AC	12	DA	C5-C6-N1	-5.48	114.96	117.70
26	AQ	36	DA	C5-C6-N6	-5.48	119.32	123.70
30	AU	32	DA	C5-C6-N1	-5.48	114.96	117.70
50	Au	10	DC	N3-C4-N4	5.48	121.83	118.00
69	BE	9	DC	N3-C4-N4	5.48	121.83	118.00
100	Bj	16	DC	O4'-C1'-C2'	-5.48	101.52	105.90
152	Cp	26	DA	C5-C6-N6	-5.48	119.32	123.70
1	AA	1242	DA	C4-C5-C6	5.48	119.74	117.00
1	AA	1736	DA	C4-C5-C6	5.48	119.74	117.00
1	AA	1784	DA	C5-C6-N6	-5.48	119.32	123.70
1	AA	1786	DC	N3-C4-C5	-5.48	119.71	121.90
1	AA	1933	DA	C5-C6-N1	-5.48	114.96	117.70
1	AA	2387	DA	C5-C6-N6	-5.48	119.32	123.70
1	AA	2593	DA	C5-C6-N6	-5.48	119.32	123.70
1	AA	2802	DA	C5-C6-N6	-5.48	119.32	123.70
1	AA	2821	DA	C4-C5-C6	5.48	119.74	117.00
1	AA	3100	DA	C4-C5-C6	5.48	119.74	117.00
1	AA	3339	DC	N3-C4-N4	5.48	121.83	118.00
1	AA	3464	DC	N3-C4-C5	-5.48	119.71	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3786	DC	N3-C4-C5	-5.48	119.71	121.90
1	AA	3892	DC	N3-C4-N4	5.48	121.83	118.00
1	AA	4169	DC	N3-C4-C5	-5.48	119.71	121.90
1	AA	4856	DC	N3-C4-N4	5.48	121.83	118.00
1	AA	5248	DA	C3'-C2'-C1'	-5.48	95.93	102.50
1	AA	5471	DT	O4'-C1'-N1	5.48	111.83	108.00
1	AA	5722	DA	C5-C6-N1	-5.48	114.96	117.70
1	AA	5961	DA	C5-C6-N6	-5.48	119.32	123.70
1	AA	6011	DA	P-O3'-C3'	5.48	126.27	119.70
1	AA	6756	DC	N3-C4-N4	5.48	121.83	118.00
1	AA	6817	DA	C5-C6-N6	-5.48	119.32	123.70
1	AA	6916	DA	C4-C5-C6	5.48	119.74	117.00
16	AG	20	DC	N3-C4-C5	-5.48	119.71	121.90
17	AH	9	DA	C4-C5-C6	5.48	119.74	117.00
25	AP	19	DA	C4-C5-C6	5.48	119.74	117.00
26	AQ	3	DC	N3-C4-N4	5.48	121.83	118.00
86	BV	12	DA	C4-C5-C6	5.48	119.74	117.00
111	C1	36	DA	C4-C5-C6	5.48	119.74	117.00
115	C5	35	DA	C5-C6-N6	-5.48	119.32	123.70
116	C6	35	DA	C4-C5-C6	5.48	119.74	117.00
122	CE	16	DA	O4'-C1'-C2'	-5.48	101.52	105.90
133	CP	10	DA	C5-C6-N6	-5.48	119.32	123.70
133	CP	44	DC	N3-C4-N4	5.48	121.83	118.00
135	CR	24	DA	C5-C6-N6	-5.48	119.32	123.70
139	CV	42	DT	P-O3'-C3'	5.48	126.27	119.70
144	Cb	7	DA	C5-C6-N6	-5.48	119.32	123.70
152	Cp	6	DG	O4'-C1'-N9	5.48	111.83	108.00
1	AA	941	DC	N3-C4-N4	5.48	121.83	118.00
1	AA	3014	DA	C4-C5-C6	5.48	119.74	117.00
1	AA	3401	DC	N3-C4-N4	5.48	121.83	118.00
1	AA	3754	DA	C5-C6-N6	-5.48	119.32	123.70
1	AA	5393	DC	N3-C4-N4	5.48	121.83	118.00
1	AA	5537	DG	C1'-O4'-C4'	-5.48	104.62	110.10
1	AA	5692	DA	C5-C6-N6	-5.48	119.32	123.70
1	AA	6559	DC	N3-C4-C5	-5.48	119.71	121.90
8	A6	43	DA	C5-C6-N6	-5.48	119.32	123.70
24	AO	37	DC	N3-C4-N4	5.48	121.83	118.00
41	Ah	8	DC	N3-C4-N4	5.48	121.83	118.00
43	Aj	17	DA	C4-C5-C6	5.48	119.74	117.00
58	B2	32	DC	N3-C4-N4	5.48	121.83	118.00
63	B7	7	DC	N3-C4-N4	5.48	121.83	118.00
63	B7	10	DA	C5-C6-N6	-5.48	119.32	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
68	BD	7	DC	N3-C4-N4	5.48	121.83	118.00
99	Bi	29	DC	N3-C4-N4	5.48	121.83	118.00
124	CG	12	DA	C5-C6-N6	-5.48	119.32	123.70
132	CO	11	DA	C5-C6-N6	-5.48	119.32	123.70
138	CU	13	DC	N3-C4-C5	-5.48	119.71	121.90
139	CV	27	DA	C4-C5-C6	5.48	119.74	117.00
141	CX	47	DA	C5-C6-N1	-5.48	114.96	117.70
147	Ce	2	DA	P-O5'-C5'	-5.48	112.14	120.90
150	Ch	9	DC	N3-C4-C5	-5.48	119.71	121.90
1	AA	85	DC	N3-C4-N4	5.47	121.83	118.00
1	AA	241	DC	N3-C4-C5	-5.47	119.71	121.90
1	AA	488	DA	O4'-C1'-C2'	-5.47	101.52	105.90
1	AA	608	DC	N3-C4-C5	-5.47	119.71	121.90
1	AA	1011	DA	C5-C6-N1	-5.47	114.96	117.70
1	AA	2995	DC	N3-C4-N4	5.47	121.83	118.00
1	AA	3032	DA	C5-C6-N1	-5.47	114.96	117.70
1	AA	3460	DC	N3-C4-N4	5.47	121.83	118.00
1	AA	4133	DC	N3-C4-C5	-5.47	119.71	121.90
1	AA	4477	DA	C5-C6-N6	-5.47	119.32	123.70
1	AA	4600	DC	N3-C4-C5	-5.47	119.71	121.90
1	AA	5109	DC	N3-C4-C5	-5.47	119.71	121.90
1	AA	6730	DA	C5-C6-N6	-5.47	119.32	123.70
1	AA	7071	DC	N3-C4-N4	5.47	121.83	118.00
1	AA	7089	DC	N3-C4-N4	5.47	121.83	118.00
10	A8	42	DA	C5-C6-N6	-5.47	119.32	123.70
16	AG	44	DC	N3-C4-N4	5.47	121.83	118.00
22	AM	39	DC	N3-C4-C5	-5.47	119.71	121.90
25	AP	10	DC	N3-C4-C5	-5.47	119.71	121.90
27	AR	13	DA	C5-C6-N6	-5.47	119.32	123.70
55	Az	5	DA	C5-C6-N6	-5.47	119.32	123.70
55	Az	27	DC	N3-C4-N4	5.47	121.83	118.00
57	B1	16	DC	N3-C4-N4	5.47	121.83	118.00
57	B1	33	DA	C5-C6-N6	-5.47	119.32	123.70
62	B6	44	DC	N3-C4-N4	5.47	121.83	118.00
95	Be	15	DA	C5-C6-N6	-5.47	119.32	123.70
104	Bn	56	DC	N3-C4-N4	5.47	121.83	118.00
107	Bq	56	DC	N3-C4-C5	-5.47	119.71	121.90
113	C3	14	DA	C5-C6-N6	-5.47	119.32	123.70
126	CI	28	DC	N3-C4-N4	5.47	121.83	118.00
131	CN	35	DA	C5-C6-N6	-5.47	119.32	123.70
136	CS	10	DA	C5-C6-N6	-5.47	119.32	123.70
137	CT	17	DA	C5-C6-N1	-5.47	114.96	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
156	Ct	5	DA	C5-C6-N1	-5.47	114.96	117.70
1	AA	194	DA	C5-C6-N6	-5.47	119.32	123.70
1	AA	678	DC	N3-C4-C5	-5.47	119.71	121.90
1	AA	822	DA	C4-C5-C6	5.47	119.74	117.00
1	AA	1484	DC	N3-C4-C5	-5.47	119.71	121.90
1	AA	2082	DC	N3-C4-N4	5.47	121.83	118.00
1	AA	2167	DA	C5-C6-N6	-5.47	119.32	123.70
1	AA	2482	DC	N3-C4-C5	-5.47	119.71	121.90
1	AA	2530	DC	P-O3'-C3'	5.47	126.27	119.70
1	AA	2606	DC	N3-C4-C5	-5.47	119.71	121.90
1	AA	2622	DC	N3-C4-N4	5.47	121.83	118.00
1	AA	3460	DC	N3-C4-C5	-5.47	119.71	121.90
1	AA	4286	DC	N3-C4-C5	-5.47	119.71	121.90
1	AA	5409	DC	N3-C4-C5	-5.47	119.71	121.90
1	AA	5942	DA	C5-C6-N6	-5.47	119.32	123.70
1	AA	6225	DA	C5-C6-N6	-5.47	119.32	123.70
1	AA	6796	DA	C5-C6-N6	-5.47	119.32	123.70
4	A2	15	DA	C5-C6-N6	-5.47	119.32	123.70
16	AG	45	DA	C4-C5-C6	5.47	119.74	117.00
34	AY	18	DC	N3-C4-N4	5.47	121.83	118.00
34	AY	41	DC	N3-C4-N4	5.47	121.83	118.00
35	AZ	7	DA	C5-C6-N6	-5.47	119.32	123.70
43	Aj	37	DA	C5-C6-N6	-5.47	119.32	123.70
47	An	5	DC	N3-C4-N4	5.47	121.83	118.00
55	Az	28	DC	N3-C4-N4	5.47	121.83	118.00
91	Ba	36	DC	N3-C4-N4	5.47	121.83	118.00
96	Bf	48	DA	C5-C6-N6	-5.47	119.32	123.70
102	Bl	1	DC	N3-C4-N4	5.47	121.83	118.00
102	Bl	44	DC	N3-C4-N4	5.47	121.83	118.00
104	Bn	59	DC	N3-C4-N4	5.47	121.83	118.00
128	CK	8	DA	P-O5'-C5'	-5.47	112.14	120.90
142	CY	34	DA	C5-C6-N1	-5.47	114.96	117.70
157	Cu	24	DA	C5-C6-N6	-5.47	119.32	123.70
157	Cu	45	DA	C5-C6-N1	-5.47	114.96	117.70
1	AA	1249	DA	C5-C6-N6	-5.47	119.32	123.70
1	AA	1257	DA	C4-C5-C6	5.47	119.73	117.00
1	AA	2033	DC	N3-C4-C5	-5.47	119.71	121.90
1	AA	2543	DC	N3-C4-N4	5.47	121.83	118.00
1	AA	2630	DA	C5-C6-N1	-5.47	114.97	117.70
1	AA	3412	DC	N3-C4-C5	-5.47	119.71	121.90
1	AA	3477	DC	N3-C4-N4	5.47	121.83	118.00
1	AA	4244	DA	C5-C6-N1	-5.47	114.97	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	4595	DA	C5-C6-N6	-5.47	119.32	123.70
1	AA	4780	DA	C5-C6-N6	-5.47	119.32	123.70
1	AA	4946	DA	C5-C6-N6	-5.47	119.32	123.70
1	AA	5607	DC	N3-C4-C5	-5.47	119.71	121.90
1	AA	5644	DA	C5-C6-N6	-5.47	119.32	123.70
1	AA	6022	DA	O4'-C1'-N9	5.47	111.83	108.00
1	AA	7066	DA	C5-C6-N6	-5.47	119.32	123.70
2	A0	52	DA	P-O3'-C3'	5.47	126.27	119.70
3	A1	32	DA	C5-C6-N6	-5.47	119.32	123.70
13	AD	36	DA	C5-C6-N6	-5.47	119.32	123.70
29	AT	11	DA	C4-C5-C6	5.47	119.73	117.00
45	Al	4	DA	C5-C6-N6	-5.47	119.32	123.70
50	Au	8	DA	C4-C5-C6	5.47	119.74	117.00
59	B3	36	DC	N3-C4-C5	-5.47	119.71	121.90
81	BQ	22	DT	O4'-C4'-C3'	-5.47	102.31	104.50
81	BQ	43	DA	C5-C6-N6	-5.47	119.32	123.70
124	CG	11	DT	O4'-C1'-N1	5.47	111.83	108.00
1	AA	388	DA	C5-C6-N6	-5.47	119.32	123.70
1	AA	835	DC	P-O3'-C3'	5.47	126.26	119.70
1	AA	1151	DA	C5-C6-N6	-5.47	119.33	123.70
1	AA	1629	DA	C5-C6-N1	-5.47	114.97	117.70
1	AA	1907	DC	N3-C4-C5	-5.47	119.71	121.90
1	AA	2381	DA	C5-C6-N6	-5.47	119.32	123.70
1	AA	2422	DA	C4-C5-C6	5.47	119.73	117.00
1	AA	2430	DC	N3-C4-N4	5.47	121.83	118.00
1	AA	2616	DA	C5-C6-N6	-5.47	119.33	123.70
1	AA	2781	DA	C5-C6-N6	-5.47	119.33	123.70
1	AA	3495	DA	C5-C6-N6	-5.47	119.33	123.70
1	AA	4052	DC	N3-C4-N4	5.47	121.83	118.00
1	AA	4838	DC	N3-C4-N4	5.47	121.83	118.00
1	AA	5325	DA	C5-C6-N6	-5.47	119.33	123.70
1	AA	5544	DA	C5-C6-N6	-5.47	119.33	123.70
1	AA	5581	DC	N3-C4-C5	-5.47	119.71	121.90
1	AA	6026	DA	C5-C6-N1	-5.47	114.97	117.70
22	AM	3	DC	N3-C4-N4	5.47	121.83	118.00
26	AQ	33	DC	N3-C4-C5	-5.47	119.71	121.90
28	AS	45	DA	C5-C6-N6	-5.47	119.32	123.70
37	Ac	33	DA	C5-C6-N6	-5.47	119.32	123.70
56	B0	24	DC	N3-C4-N4	5.47	121.83	118.00
63	B7	12	DC	N3-C4-N4	5.47	121.83	118.00
81	BQ	9	DA	C5-C6-N1	-5.47	114.97	117.70
82	BR	16	DA	C5-C6-N1	-5.47	114.97	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
85	BU	53	DC	N3-C4-C5	-5.47	119.71	121.90
86	BV	16	DC	N3-C4-N4	5.47	121.83	118.00
116	C6	34	DC	N3-C4-N4	5.47	121.83	118.00
118	C8	3	DA	C4-C5-C6	5.47	119.73	117.00
120	CC	39	DA	C5-C6-N6	-5.47	119.32	123.70
127	CJ	3	DA	C5-C6-N6	-5.47	119.32	123.70
128	CK	22	DA	P-O5'-C5'	-5.47	112.15	120.90
128	CK	39	DC	N3-C4-C5	-5.47	119.71	121.90
1	AA	830	DC	N3-C4-N4	5.47	121.83	118.00
27	AR	54	DA	C4-C5-C6	5.47	119.73	117.00
62	B6	27	DA	C5-C6-N6	-5.47	119.33	123.70
103	Bm	22	DT	P-O5'-C5'	-5.47	112.15	120.90
109	Bs	43	DC	N3-C4-N4	5.47	121.83	118.00
160	Cx	28	DC	N3-C4-N4	5.47	121.83	118.00
160	Cx	42	DA	C5-C6-N1	-5.47	114.97	117.70
1	AA	11	DT	P-O3'-C3'	5.47	126.26	119.70
1	AA	458	DA	C5-C6-N6	-5.47	119.33	123.70
1	AA	734	DC	N3-C4-C5	-5.47	119.71	121.90
1	AA	945	DA	C5-C6-N6	-5.47	119.33	123.70
1	AA	951	DA	C4-C5-C6	5.47	119.73	117.00
1	AA	1344	DA	C5-C6-N1	-5.47	114.97	117.70
1	AA	1541	DA	C5-C6-N6	-5.47	119.33	123.70
1	AA	1744	DA	C4-C5-C6	5.47	119.73	117.00
1	AA	2010	DA	C5-C6-N6	-5.47	119.33	123.70
1	AA	2248	DA	C5-C6-N1	-5.47	114.97	117.70
1	AA	2304	DA	C5-C6-N6	-5.47	119.33	123.70
1	AA	2918	DA	C5-C6-N1	-5.47	114.97	117.70
1	AA	3099	DA	C5-C6-N6	-5.47	119.33	123.70
1	AA	3139	DC	N3-C4-N4	5.47	121.83	118.00
1	AA	3904	DC	N3-C4-C5	-5.47	119.71	121.90
1	AA	3961	DC	N3-C4-C5	-5.47	119.71	121.90
1	AA	5343	DA	C4-C5-C6	5.47	119.73	117.00
1	AA	5702	DA	C5-C6-N6	-5.47	119.33	123.70
1	AA	6851	DT	O4'-C1'-N1	5.47	111.83	108.00
2	A0	36	DA	C5-C6-N1	-5.47	114.97	117.70
23	AN	24	DC	N3-C4-C5	-5.47	119.71	121.90
39	Af	3	DC	N3-C4-N4	5.47	121.83	118.00
51	Av	23	DA	C5-C6-N6	-5.47	119.33	123.70
69	BE	66	DA	C5-C6-N6	-5.47	119.33	123.70
74	BJ	51	DC	N3-C4-C5	-5.47	119.71	121.90
77	BM	31	DA	C5-C6-N6	-5.47	119.33	123.70
78	BN	59	DA	C5-C6-N1	-5.47	114.97	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
127	CJ	44	DC	N3-C4-C5	-5.47	119.71	121.90
136	CS	45	DA	C4-C5-C6	5.47	119.73	117.00
154	Cr	39	DG	O4'-C1'-N9	5.47	111.83	108.00
1	AA	534	DC	N3-C4-N4	5.46	121.83	118.00
1	AA	825	DA	C5-C6-N1	-5.46	114.97	117.70
1	AA	841	DC	N3-C4-N4	5.46	121.83	118.00
1	AA	958	DA	C5-C6-N6	-5.46	119.33	123.70
1	AA	3436	DT	P-O5'-C5'	-5.46	112.16	120.90
1	AA	4176	DT	O4'-C1'-N1	5.46	111.83	108.00
1	AA	4847	DC	N3-C4-N4	5.46	121.83	118.00
1	AA	5073	DA	C5-C6-N6	-5.46	119.33	123.70
1	AA	5289	DC	N3-C4-N4	5.46	121.83	118.00
1	AA	5520	DA	C4-C5-C6	5.46	119.73	117.00
1	AA	5533	DC	N3-C4-N4	5.46	121.83	118.00
1	AA	5892	DA	C5-C6-N6	-5.46	119.33	123.70
1	AA	6400	DC	C1'-O4'-C4'	-5.46	104.64	110.10
1	AA	6528	DC	N3-C4-N4	5.46	121.83	118.00
1	AA	6570	DA	C5-C6-N1	-5.46	114.97	117.70
2	A0	24	DA	C4-C5-C6	5.46	119.73	117.00
19	AJ	3	DA	C4-C5-C6	5.46	119.73	117.00
24	AO	18	DC	N3-C4-C5	-5.46	119.71	121.90
35	AZ	14	DC	N3-C4-N4	5.46	121.83	118.00
39	Af	1	DC	N3-C4-N4	5.46	121.83	118.00
40	Ag	3	DC	N3-C4-N4	5.46	121.83	118.00
64	B8	21	DC	N3-C4-C5	-5.46	119.71	121.90
72	BH	37	DT	P-O3'-C3'	5.46	126.26	119.70
96	Bf	29	DC	N3-C4-N4	5.46	121.83	118.00
100	Bj	42	DA	C5-C6-N6	-5.46	119.33	123.70
139	CV	23	DA	C5-C6-N6	-5.46	119.33	123.70
146	Cd	19	DA	C5-C6-N6	-5.46	119.33	123.70
147	Ce	22	DA	C4-C5-C6	5.46	119.73	117.00
148	Cf	43	DC	N3-C4-C5	-5.46	119.71	121.90
158	Cv	31	DA	C5-C6-N1	-5.46	114.97	117.70
1	AA	211	DC	N3-C4-N4	5.46	121.82	118.00
1	AA	430	DC	N3-C4-N4	5.46	121.82	118.00
1	AA	1274	DA	C5-C6-N6	-5.46	119.33	123.70
1	AA	2047	DA	C5-C6-N1	-5.46	114.97	117.70
1	AA	2529	DC	N3-C4-C5	-5.46	119.72	121.90
1	AA	3399	DG	O4'-C4'-C3'	-5.46	102.31	104.50
1	AA	3820	DC	N3-C4-C5	-5.46	119.72	121.90
1	AA	4313	DC	N3-C4-C5	-5.46	119.72	121.90
1	AA	4554	DG	C1'-O4'-C4'	-5.46	104.64	110.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	4642	DA	C5-C6-N6	-5.46	119.33	123.70
1	AA	4681	DC	N3-C4-N4	5.46	121.82	118.00
1	AA	5007	DA	C5-C6-N6	-5.46	119.33	123.70
1	AA	5525	DA	C5-C6-N1	-5.46	114.97	117.70
1	AA	6267	DA	C5-C6-N6	-5.46	119.33	123.70
1	AA	6638	DC	N3-C4-N4	5.46	121.82	118.00
1	AA	6864	DC	N3-C4-N4	5.46	121.82	118.00
4	A2	13	DA	P-O3'-C3'	5.46	126.26	119.70
34	AY	33	DC	N3-C4-N4	5.46	121.82	118.00
45	Al	16	DT	O4'-C1'-N1	5.46	111.82	108.00
47	An	18	DC	N3-C4-C5	-5.46	119.72	121.90
50	Au	28	DA	C4-C5-C6	5.46	119.73	117.00
65	B9	5	DA	C5-C6-N1	-5.46	114.97	117.70
79	BO	20	DT	P-O5'-C5'	-5.46	112.16	120.90
87	BW	52	DC	N3-C4-C5	-5.46	119.72	121.90
127	CJ	39	DA	C5-C6-N6	-5.46	119.33	123.70
127	CJ	40	DA	C5-C6-N1	-5.46	114.97	117.70
142	CY	36	DC	N3-C4-C5	-5.46	119.72	121.90
145	Cc	50	DT	P-O5'-C5'	-5.46	112.16	120.90
146	Cd	6	DA	C4-C5-C6	5.46	119.73	117.00
1	AA	199	DC	N3-C4-C5	-5.46	119.72	121.90
1	AA	539	DA	C4-C5-C6	5.46	119.73	117.00
1	AA	953	DA	C4-C5-C6	5.46	119.73	117.00
1	AA	2054	DC	N3-C4-C5	-5.46	119.72	121.90
1	AA	2667	DA	C4-C5-C6	5.46	119.73	117.00
1	AA	2769	DC	N3-C4-N4	5.46	121.82	118.00
1	AA	3768	DT	P-O3'-C3'	5.46	126.25	119.70
1	AA	3995	DC	O4'-C1'-N1	5.46	111.82	108.00
1	AA	4341	DA	C5-C6-N1	-5.46	114.97	117.70
1	AA	5202	DA	C4-C5-C6	5.46	119.73	117.00
1	AA	5601	DC	N3-C4-C5	-5.46	119.72	121.90
1	AA	6020	DC	N3-C4-C5	-5.46	119.72	121.90
2	A0	45	DG	O4'-C1'-C2'	-5.46	101.53	105.90
4	A2	30	DC	N3-C4-N4	5.46	121.82	118.00
10	A8	19	DA	C5-C6-N6	-5.46	119.33	123.70
18	AI	4	DA	C5-C6-N6	-5.46	119.33	123.70
19	AJ	17	DA	C5-C6-N1	-5.46	114.97	117.70
19	AJ	18	DA	C5-C6-N6	-5.46	119.33	123.70
28	AS	42	DA	C5-C6-N6	-5.46	119.33	123.70
30	AU	22	DC	N3-C4-N4	5.46	121.82	118.00
32	AW	50	DA	C5-C6-N1	-5.46	114.97	117.70
37	Ac	21	DA	C5-C6-N6	-5.46	119.33	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
42	Ai	6	DA	C5-C6-N6	-5.46	119.33	123.70
53	Ax	23	DG	P-O3'-C3'	5.46	126.25	119.70
53	Ax	37	DA	C5-C6-N6	-5.46	119.33	123.70
54	Ay	8	DC	N3-C4-C5	-5.46	119.72	121.90
56	B0	38	DA	C5-C6-N1	-5.46	114.97	117.70
69	BE	59	DC	N3-C4-N4	5.46	121.82	118.00
72	BH	17	DA	C5-C6-N6	-5.46	119.33	123.70
74	BJ	45	DC	N3-C4-N4	5.46	121.82	118.00
81	BQ	6	DA	C1'-O4'-C4'	-5.46	104.64	110.10
91	Ba	25	DG	P-O3'-C3'	5.46	126.25	119.70
97	Bg	9	DC	N3-C4-N4	5.46	121.82	118.00
100	Bj	43	DC	N3-C4-N4	5.46	121.82	118.00
106	Bp	6	DC	N3-C4-N4	5.46	121.82	118.00
114	C4	51	DA	C5-C6-N6	-5.46	119.33	123.70
119	CB	2	DC	N3-C4-C5	-5.46	119.72	121.90
121	CD	38	DA	C5-C6-N6	-5.46	119.33	123.70
144	Cb	24	DA	O4'-C1'-N9	5.46	111.82	108.00
148	Cf	29	DA	C5-C6-N1	-5.46	114.97	117.70
1	AA	893	DC	N3-C4-C5	-5.46	119.72	121.90
1	AA	1389	DG	O4'-C1'-N9	5.46	111.82	108.00
1	AA	1656	DA	C5-C6-N6	-5.46	119.33	123.70
1	AA	3622	DC	N3-C4-C5	-5.46	119.72	121.90
1	AA	7021	DA	P-O3'-C3'	5.46	126.25	119.70
51	Av	33	DA	C4-C5-C6	5.46	119.73	117.00
53	Ax	3	DA	C4-C5-C6	5.46	119.73	117.00
69	BE	39	DA	C5-C6-N1	-5.46	114.97	117.70
75	BK	35	DA	C4-C5-C6	5.46	119.73	117.00
81	BQ	2	DC	N3-C4-N4	5.46	121.82	118.00
129	CL	42	DA	C5-C6-N6	-5.46	119.33	123.70
146	Cd	41	DA	C5-C6-N6	-5.46	119.33	123.70
160	Cx	1	DA	C5-C6-N6	-5.46	119.33	123.70
1	AA	18	DC	N3-C4-N4	5.46	121.82	118.00
1	AA	207	DC	N3-C4-N4	5.46	121.82	118.00
1	AA	507	DC	N3-C4-N4	5.46	121.82	118.00
1	AA	1460	DC	N3-C4-N4	5.46	121.82	118.00
1	AA	1622	DA	C4-C5-C6	5.46	119.73	117.00
1	AA	1763	DA	C5-C6-N1	-5.46	114.97	117.70
1	AA	2258	DA	C5-C6-N6	-5.46	119.33	123.70
1	AA	2379	DC	N3-C4-C5	-5.46	119.72	121.90
1	AA	2849	DG	O4'-C4'-C3'	-5.46	102.32	104.50
1	AA	3176	DA	C5-C6-N1	-5.46	114.97	117.70
1	AA	3187	DA	C4-C5-C6	5.46	119.73	117.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3201	DA	C5-C6-N6	-5.46	119.33	123.70
1	AA	3532	DA	C5-C6-N6	-5.46	119.33	123.70
1	AA	5154	DC	N3-C4-N4	5.46	121.82	118.00
1	AA	5323	DA	C4-C5-C6	5.46	119.73	117.00
1	AA	5368	DC	N3-C4-C5	-5.46	119.72	121.90
1	AA	5971	DA	C5-C6-N1	-5.46	114.97	117.70
8	A6	2	DA	C5-C6-N6	-5.46	119.33	123.70
11	AB	26	DA	C5-C6-N6	-5.46	119.33	123.70
21	AL	1	DA	C5-C6-N6	-5.46	119.33	123.70
22	AM	30	DA	C4-C5-C6	5.46	119.73	117.00
41	Ah	16	DA	C5-C6-N6	-5.46	119.33	123.70
46	Am	3	DA	C4-C5-C6	5.46	119.73	117.00
46	Am	7	DC	N3-C4-N4	5.46	121.82	118.00
56	B0	34	DC	N3-C4-C5	-5.46	119.72	121.90
62	B6	15	DT	O4'-C1'-N1	5.46	111.82	108.00
69	BE	65	DA	C5-C6-N1	-5.46	114.97	117.70
108	Br	13	DC	N3-C4-N4	5.46	121.82	118.00
161	Cy	32	DC	N3-C4-N4	5.46	121.82	118.00
1	AA	838	DC	O4'-C1'-N1	5.46	111.82	108.00
1	AA	1361	DA	C5-C6-N1	-5.46	114.97	117.70
1	AA	1652	DA	C5-C6-N6	-5.46	119.33	123.70
1	AA	2045	DC	N3-C4-N4	5.46	121.82	118.00
1	AA	3151	DA	C5-C6-N1	-5.46	114.97	117.70
1	AA	4312	DC	N3-C4-N4	5.46	121.82	118.00
1	AA	5524	DA	C5-C6-N6	-5.46	119.34	123.70
1	AA	5839	DA	C5-C6-N6	-5.46	119.33	123.70
1	AA	6441	DC	N3-C4-N4	5.46	121.82	118.00
1	AA	6475	DA	C5-C6-N6	-5.46	119.33	123.70
1	AA	6692	DC	N3-C4-C5	-5.46	119.72	121.90
5	A3	5	DC	O4'-C1'-N1	5.46	111.82	108.00
12	AC	6	DA	C5-C6-N1	-5.46	114.97	117.70
27	AR	10	DC	N3-C4-N4	5.46	121.82	118.00
33	AX	25	DC	N3-C4-N4	5.46	121.82	118.00
37	Ac	11	DA	C5-C6-N6	-5.46	119.33	123.70
42	Ai	2	DA	C1'-O4'-C4'	-5.46	104.64	110.10
47	An	42	DA	C5-C6-N6	-5.46	119.33	123.70
61	B5	30	DG	C4'-C3'-C2'	-5.46	98.19	103.10
67	BC	24	DA	C5-C6-N6	-5.46	119.33	123.70
82	BR	61	DC	N3-C4-N4	5.46	121.82	118.00
106	Bp	2	DA	C5-C6-N6	-5.46	119.33	123.70
118	C8	15	DA	C5-C6-N6	-5.46	119.33	123.70
122	CE	26	DA	C5-C6-N6	-5.46	119.33	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
128	CK	26	DC	N3-C4-N4	5.46	121.82	118.00
137	CT	40	DA	C4-C5-C6	5.46	119.73	117.00
143	CZ	12	DT	O4'-C1'-C2'	-5.46	101.53	105.90
144	Cb	37	DA	C5-C6-N1	-5.46	114.97	117.70
153	Cq	26	DA	C5-C6-N6	-5.46	119.33	123.70
158	Cv	32	DA	C5-C6-N6	-5.46	119.33	123.70
162	Cz	4	DA	C5-C6-N6	-5.46	119.33	123.70
162	Cz	5	DC	N3-C4-C5	-5.46	119.72	121.90
1	AA	1804	DA	C5-C6-N1	-5.46	114.97	117.70
1	AA	1826	DC	N3-C4-N4	5.46	121.82	118.00
1	AA	2216	DG	C1'-O4'-C4'	-5.46	104.64	110.10
1	AA	2636	DC	N3-C4-N4	5.46	121.82	118.00
1	AA	4268	DA	C5-C6-N6	-5.46	119.34	123.70
1	AA	6355	DC	N3-C4-C5	-5.46	119.72	121.90
1	AA	6526	DA	C4-C5-C6	5.46	119.73	117.00
12	AC	44	DA	C4-C5-C6	5.46	119.73	117.00
17	AH	17	DC	N3-C4-N4	5.46	121.82	118.00
35	AZ	50	DC	N3-C4-N4	5.46	121.82	118.00
37	Ac	60	DC	N3-C4-C5	-5.46	119.72	121.90
42	Ai	40	DC	N3-C4-C5	-5.46	119.72	121.90
47	An	41	DC	N3-C4-C5	-5.46	119.72	121.90
48	Ao	6	DC	N3-C4-N4	5.46	121.82	118.00
66	BB	4	DC	N3-C4-C5	-5.46	119.72	121.90
81	BQ	24	DC	N3-C4-N4	5.46	121.82	118.00
112	C2	42	DA	C5-C6-N1	-5.46	114.97	117.70
1	AA	57	DC	N3-C4-N4	5.45	121.82	118.00
1	AA	162	DC	N3-C4-N4	5.45	121.82	118.00
1	AA	183	DC	N3-C4-N4	5.45	121.82	118.00
1	AA	591	DA	C5-C6-N1	-5.45	114.97	117.70
1	AA	695	DA	C5-C6-N1	-5.45	114.97	117.70
1	AA	1230	DC	N3-C4-C5	-5.45	119.72	121.90
1	AA	1279	DA	C5-C6-N6	-5.45	119.34	123.70
1	AA	2481	DC	N3-C4-N4	5.45	121.82	118.00
1	AA	2718	DA	C5-C6-N1	-5.45	114.97	117.70
1	AA	4626	DA	C5-C6-N1	-5.45	114.97	117.70
1	AA	4785	DA	C5-C6-N6	-5.45	119.34	123.70
1	AA	4843	DA	C5-C6-N6	-5.45	119.34	123.70
1	AA	5025	DC	N3-C4-N4	5.45	121.82	118.00
1	AA	5214	DA	C5-C6-N1	-5.45	114.97	117.70
1	AA	6893	DC	N3-C4-C5	-5.45	119.72	121.90
1	AA	6995	DC	N3-C4-N4	5.45	121.82	118.00
1	AA	7148	DC	N3-C4-N4	5.45	121.82	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	A5	41	DA	C5-C6-N1	-5.45	114.97	117.70
12	AC	16	DC	O4'-C1'-C2'	-5.45	101.54	105.90
13	AD	12	DC	N3-C4-C5	-5.45	119.72	121.90
18	AI	45	DA	C4-C5-C6	5.45	119.73	117.00
34	AY	40	DC	N3-C4-N4	5.45	121.82	118.00
47	An	27	DA	C5-C6-N6	-5.45	119.34	123.70
83	BS	29	DC	N3-C4-C5	-5.45	119.72	121.90
100	Bj	9	DC	N3-C4-C5	-5.45	119.72	121.90
117	C7	40	DC	N3-C4-N4	5.45	121.82	118.00
119	CB	10	DA	C5-C6-N6	-5.45	119.34	123.70
119	CB	48	DA	C5-C6-N6	-5.45	119.34	123.70
121	CD	1	DA	C4-C5-C6	5.45	119.73	117.00
136	CS	7	DA	C5-C6-N6	-5.45	119.34	123.70
137	CT	9	DA	C5-C6-N6	-5.45	119.34	123.70
139	CV	40	DC	N3-C4-N4	5.45	121.82	118.00
145	Cc	44	DA	C5-C6-N6	-5.45	119.34	123.70
158	Cv	37	DA	P-O3'-C3'	5.45	126.25	119.70
1	AA	73	DA	C5-C6-N1	-5.45	114.97	117.70
1	AA	735	DC	N3-C4-N4	5.45	121.82	118.00
1	AA	3617	DA	C5-C6-N1	-5.45	114.97	117.70
1	AA	4842	DC	N3-C4-C5	-5.45	119.72	121.90
1	AA	6499	DC	N3-C4-N4	5.45	121.82	118.00
13	AD	43	DA	C4-C5-C6	5.45	119.73	117.00
70	BF	16	DA	C4-C5-C6	5.45	119.73	117.00
83	BS	4	DC	N3-C4-C5	-5.45	119.72	121.90
99	Bi	49	DC	N3-C4-N4	5.45	121.82	118.00
124	CG	28	DC	N3-C4-N4	5.45	121.82	118.00
130	CM	28	DC	N3-C4-N4	5.45	121.82	118.00
145	Cc	1	DA	P-O3'-C3'	5.45	126.24	119.70
145	Cc	47	DA	C5-C6-N6	-5.45	119.34	123.70
145	Cc	52	DA	C5-C6-N6	-5.45	119.34	123.70
146	Cd	1	DA	C5-C6-N6	-5.45	119.34	123.70
1	AA	68	DC	N3-C4-N4	5.45	121.81	118.00
1	AA	428	DC	N3-C4-N4	5.45	121.81	118.00
1	AA	1746	DC	N3-C4-C5	-5.45	119.72	121.90
1	AA	2418	DC	N3-C4-N4	5.45	121.81	118.00
1	AA	4071	DC	N3-C4-C5	-5.45	119.72	121.90
1	AA	4479	DC	N3-C4-C5	-5.45	119.72	121.90
1	AA	4525	DA	C5-C6-N6	-5.45	119.34	123.70
1	AA	4744	DC	N3-C4-N4	5.45	121.81	118.00
1	AA	4911	DC	N3-C4-N4	5.45	121.81	118.00
1	AA	5050	DC	N3-C4-N4	5.45	121.82	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5171	DA	C5-C6-N6	-5.45	119.34	123.70
1	AA	5180	DC	N3-C4-C5	-5.45	119.72	121.90
1	AA	5213	DA	C4-C5-C6	5.45	119.73	117.00
1	AA	5440	DC	C2-N3-C4	5.45	122.62	119.90
1	AA	6570	DA	C5-C6-N6	-5.45	119.34	123.70
1	AA	6990	DA	C4-C5-C6	5.45	119.72	117.00
2	A0	15	DA	C5-C6-N6	-5.45	119.34	123.70
3	A1	31	DA	C4-C5-C6	5.45	119.72	117.00
5	A3	13	DA	C5-C6-N1	-5.45	114.97	117.70
28	AS	10	DG	O4'-C1'-N9	5.45	111.82	108.00
47	An	25	DA	P-O3'-C3'	5.45	126.24	119.70
70	BF	5	DA	C5-C6-N6	-5.45	119.34	123.70
76	BL	40	DT	P-O5'-C5'	-5.45	112.18	120.90
78	BN	63	DG	O4'-C1'-N9	5.45	111.82	108.00
94	Bd	30	DC	N3-C4-N4	5.45	121.81	118.00
111	C1	8	DA	C5-C6-N1	-5.45	114.97	117.70
130	CM	19	DC	N3-C4-N4	5.45	121.81	118.00
139	CV	47	DC	N3-C4-C5	-5.45	119.72	121.90
140	CW	26	DA	C5-C6-N6	-5.45	119.34	123.70
1	AA	750	DA	C5-C6-N1	-5.45	114.98	117.70
1	AA	890	DA	C4-C5-C6	5.45	119.72	117.00
1	AA	979	DT	O4'-C1'-N1	5.45	111.81	108.00
1	AA	2252	DG	P-O5'-C5'	-5.45	112.18	120.90
1	AA	2913	DC	C1'-O4'-C4'	-5.45	104.65	110.10
1	AA	3262	DA	C4-C5-C6	5.45	119.72	117.00
1	AA	3791	DC	N3-C4-C5	-5.45	119.72	121.90
1	AA	4109	DC	N3-C4-C5	-5.45	119.72	121.90
1	AA	4800	DA	C5-C6-N6	-5.45	119.34	123.70
1	AA	5023	DA	C4-C5-C6	5.45	119.72	117.00
1	AA	5314	DA	C5-C6-N6	-5.45	119.34	123.70
1	AA	5393	DC	O4'-C4'-C3'	-5.45	102.32	104.50
1	AA	6508	DC	N3-C4-N4	5.45	121.81	118.00
1	AA	6644	DA	C5-C6-N6	-5.45	119.34	123.70
7	A5	18	DA	C5-C6-N6	-5.45	119.34	123.70
16	AG	38	DA	C5-C6-N6	-5.45	119.34	123.70
17	AH	1	DC	N3-C4-C5	-5.45	119.72	121.90
30	AU	33	DT	O4'-C1'-C2'	-5.45	101.54	105.90
31	AV	34	DA	C5-C6-N1	-5.45	114.98	117.70
50	Au	47	DA	C5-C6-N6	-5.45	119.34	123.70
61	B5	33	DC	O4'-C1'-C2'	-5.45	101.54	105.90
62	B6	17	DG	O4'-C1'-N9	5.45	111.81	108.00
72	BH	1	DC	N3-C4-C5	-5.45	119.72	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
90	BZ	27	DA	C5-C6-N6	-5.45	119.34	123.70
91	Ba	7	DA	C4-C5-C6	5.45	119.72	117.00
92	Bb	18	DA	C5-C6-N6	-5.45	119.34	123.70
98	Bh	37	DT	P-O3'-C3'	5.45	126.24	119.70
102	Bl	7	DA	C5-C6-N1	-5.45	114.98	117.70
106	Bp	22	DA	C5-C6-N6	-5.45	119.34	123.70
109	Bs	30	DC	N3-C4-N4	5.45	121.81	118.00
128	CK	16	DA	C4-C5-C6	5.45	119.72	117.00
131	CN	38	DA	C5-C6-N6	-5.45	119.34	123.70
145	Cc	31	DC	N3-C4-C5	-5.45	119.72	121.90
162	Cz	14	DA	C5-C6-N6	-5.45	119.34	123.70
1	AA	5211	DA	C4-C5-C6	5.45	119.72	117.00
1	AA	6501	DA	C5-C6-N1	-5.45	114.98	117.70
30	AU	1	DT	O4'-C1'-C2'	-5.45	101.54	105.90
37	Ac	5	DA	C5-C6-N6	-5.45	119.34	123.70
108	Br	13	DC	C1'-O4'-C4'	-5.45	104.65	110.10
145	Cc	42	DA	C5-C6-N6	-5.45	119.34	123.70
1	AA	284	DC	N3-C4-N4	5.45	121.81	118.00
1	AA	1468	DC	N3-C4-C5	-5.45	119.72	121.90
1	AA	2485	DT	O4'-C1'-N1	5.45	111.81	108.00
1	AA	2555	DC	N3-C4-C5	-5.45	119.72	121.90
1	AA	3055	DA	C4-C5-C6	5.45	119.72	117.00
1	AA	3665	DA	C5-C6-N6	-5.45	119.34	123.70
1	AA	4388	DA	C5-C6-N6	-5.45	119.34	123.70
1	AA	5056	DA	C4-C5-C6	5.45	119.72	117.00
1	AA	5494	DC	N3-C4-N4	5.45	121.81	118.00
1	AA	6045	DA	C5-C6-N1	-5.45	114.98	117.70
1	AA	6065	DA	C4-C5-C6	5.45	119.72	117.00
1	AA	6171	DA	C5-C6-N6	-5.45	119.34	123.70
10	A8	35	DA	C5-C6-N6	-5.45	119.34	123.70
14	AE	39	DA	C5-C6-N6	-5.45	119.34	123.70
18	AI	43	DC	N3-C4-C5	-5.45	119.72	121.90
22	AM	21	DC	N3-C4-N4	5.45	121.81	118.00
22	AM	50	DC	N3-C4-N4	5.45	121.81	118.00
30	AU	31	DA	C5-C6-N1	-5.45	114.98	117.70
44	Ak	1	DA	C4-C5-C6	5.45	119.72	117.00
50	Au	47	DA	C4-C5-C6	5.45	119.72	117.00
51	Av	32	DA	C5-C6-N6	-5.45	119.34	123.70
56	B0	30	DC	N3-C4-N4	5.45	121.81	118.00
58	B2	19	DC	N3-C4-N4	5.45	121.81	118.00
76	BL	38	DA	C5-C6-N6	-5.45	119.34	123.70
83	BS	13	DC	N3-C4-N4	5.45	121.81	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
89	BY	38	DA	C4-C5-C6	5.45	119.72	117.00
95	Be	11	DC	N3-C4-C5	-5.45	119.72	121.90
125	CH	34	DA	C5-C6-N1	-5.45	114.98	117.70
131	CN	3	DA	C5-C6-N6	-5.45	119.34	123.70
157	Cu	24	DA	C5-C6-N1	-5.45	114.98	117.70
1	AA	71	DG	O4'-C1'-C2'	-5.44	101.55	105.90
1	AA	2881	DC	N3-C4-C5	-5.44	119.72	121.90
1	AA	3312	DA	C5-C6-N6	-5.44	119.34	123.70
1	AA	4019	DC	O4'-C1'-C2'	-5.44	101.55	105.90
1	AA	4138	DA	C5-C6-N6	-5.44	119.34	123.70
1	AA	4897	DC	N3-C4-N4	5.44	121.81	118.00
1	AA	5133	DC	N3-C4-N4	5.44	121.81	118.00
1	AA	5249	DA	C4-C5-C6	5.44	119.72	117.00
1	AA	6065	DA	C5-C6-N6	-5.44	119.34	123.70
51	Av	3	DA	C5-C6-N6	-5.44	119.34	123.70
51	Av	26	DA	C5-C6-N1	-5.44	114.98	117.70
125	CH	36	DC	N3-C4-C5	-5.44	119.72	121.90
139	CV	13	DA	C1'-O4'-C4'	-5.44	104.66	110.10
1	AA	753	DG	O4'-C1'-N9	5.44	111.81	108.00
1	AA	1208	DC	N3-C4-N4	5.44	121.81	118.00
1	AA	1262	DA	C5-C6-N6	-5.44	119.35	123.70
1	AA	1582	DA	C4-C5-C6	5.44	119.72	117.00
1	AA	2051	DA	C5-C6-N6	-5.44	119.35	123.70
1	AA	2342	DC	N3-C4-C5	-5.44	119.72	121.90
1	AA	2475	DG	P-O3'-C3'	5.44	126.23	119.70
1	AA	2594	DC	N3-C4-N4	5.44	121.81	118.00
1	AA	3336	DA	C5-C6-N6	-5.44	119.35	123.70
1	AA	4375	DA	C5-C6-N6	-5.44	119.35	123.70
1	AA	4771	DA	C4-C5-C6	5.44	119.72	117.00
1	AA	5267	DA	C5-C6-N6	-5.44	119.35	123.70
1	AA	5500	DC	O4'-C1'-C2'	-5.44	101.55	105.90
1	AA	6562	DA	C5-C6-N6	-5.44	119.35	123.70
4	A2	25	DA	C5-C6-N1	-5.44	114.98	117.70
12	AC	12	DA	C5-C6-N6	-5.44	119.35	123.70
14	AE	10	DC	N3-C4-C5	-5.44	119.72	121.90
16	AG	25	DC	N3-C4-C5	-5.44	119.72	121.90
30	AU	14	DA	C5-C6-N1	-5.44	114.98	117.70
36	Ab	22	DA	C5-C6-N6	-5.44	119.35	123.70
42	Ai	36	DA	C5-C6-N6	-5.44	119.34	123.70
57	B1	41	DA	C5-C6-N6	-5.44	119.35	123.70
59	B3	16	DA	C5-C6-N6	-5.44	119.35	123.70
69	BE	6	DA	C5-C6-N6	-5.44	119.35	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
74	BJ	11	DA	C5-C6-N6	-5.44	119.34	123.70
76	BL	42	DA	C4-C5-C6	5.44	119.72	117.00
93	Bc	45	DA	C4-C5-C6	5.44	119.72	117.00
99	Bi	37	DA	C5-C6-N6	-5.44	119.35	123.70
110	C0	16	DC	N3-C4-N4	5.44	121.81	118.00
113	C3	41	DA	C5-C6-N6	-5.44	119.35	123.70
114	C4	30	DC	N3-C4-N4	5.44	121.81	118.00
120	CC	39	DA	C4-C5-C6	5.44	119.72	117.00
122	CE	12	DA	C4-C5-C6	5.44	119.72	117.00
122	CE	29	DC	N3-C4-C5	-5.44	119.72	121.90
131	CN	2	DA	C5-C6-N6	-5.44	119.34	123.70
136	CS	15	DA	C4-C5-C6	5.44	119.72	117.00
137	CT	45	DA	C4-C5-C6	5.44	119.72	117.00
154	Cr	26	DA	C5-C6-N1	-5.44	114.98	117.70
1	AA	931	DA	C5-C6-N1	-5.44	114.98	117.70
1	AA	1316	DC	N3-C4-C5	-5.44	119.72	121.90
1	AA	1676	DC	N3-C4-N4	5.44	121.81	118.00
1	AA	1730	DA	C5-C6-N1	-5.44	114.98	117.70
1	AA	1855	DA	C5-C6-N1	-5.44	114.98	117.70
1	AA	2141	DA	C5-C6-N1	-5.44	114.98	117.70
1	AA	2177	DA	C5-C6-N6	-5.44	119.35	123.70
1	AA	2510	DA	C5-C6-N6	-5.44	119.35	123.70
1	AA	2883	DC	N3-C4-C5	-5.44	119.72	121.90
1	AA	3183	DA	C5-C6-N6	-5.44	119.35	123.70
1	AA	3236	DC	N3-C4-C5	-5.44	119.72	121.90
1	AA	3265	DC	N3-C4-N4	5.44	121.81	118.00
1	AA	4468	DC	N3-C4-N4	5.44	121.81	118.00
1	AA	4647	DC	N3-C4-N4	5.44	121.81	118.00
1	AA	5328	DA	C5-C6-N1	-5.44	114.98	117.70
1	AA	5522	DC	N3-C4-N4	5.44	121.81	118.00
1	AA	5798	DA	C4-C5-C6	5.44	119.72	117.00
1	AA	6455	DC	N3-C4-N4	5.44	121.81	118.00
1	AA	7020	DC	N3-C4-N4	5.44	121.81	118.00
8	A6	33	DC	N3-C4-N4	5.44	121.81	118.00
9	A7	25	DC	N3-C4-C5	-5.44	119.72	121.90
12	AC	18	DC	N3-C4-N4	5.44	121.81	118.00
28	AS	11	DA	C5-C6-N6	-5.44	119.35	123.70
29	AT	6	DA	O4'-C1'-N9	5.44	111.81	108.00
48	Ao	35	DC	N3-C4-N4	5.44	121.81	118.00
67	BC	6	DA	C4-C5-C6	5.44	119.72	117.00
69	BE	57	DC	N3-C4-N4	5.44	121.81	118.00
83	BS	30	DG	C4'-C3'-C2'	-5.44	98.20	103.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
84	BT	49	DA	C5-C6-N6	-5.44	119.35	123.70
96	Bf	43	DG	C4'-C3'-C2'	-5.44	98.20	103.10
100	Bj	22	DC	N3-C4-C5	-5.44	119.72	121.90
107	Bq	47	DA	C5-C6-N6	-5.44	119.35	123.70
111	C1	37	DA	O4'-C4'-C3'	-5.44	102.32	104.50
114	C4	28	DC	N3-C4-C5	-5.44	119.72	121.90
127	CJ	42	DA	C5-C6-N6	-5.44	119.35	123.70
132	CO	40	DA	C4-C5-C6	5.44	119.72	117.00
138	CU	25	DC	N3-C4-C5	-5.44	119.72	121.90
146	Cd	12	DC	N3-C4-N4	5.44	121.81	118.00
155	Cs	39	DA	C5-C6-N1	-5.44	114.98	117.70
160	Cx	43	DC	N3-C4-N4	5.44	121.81	118.00
1	AA	364	DA	C5-C6-N6	-5.44	119.35	123.70
1	AA	462	DA	C5-C6-N1	-5.44	114.98	117.70
1	AA	702	DA	C5-C6-N1	-5.44	114.98	117.70
1	AA	1897	DC	N3-C4-C5	-5.44	119.72	121.90
1	AA	3645	DC	N3-C4-C5	-5.44	119.72	121.90
1	AA	3682	DC	N3-C4-N4	5.44	121.81	118.00
1	AA	4298	DT	P-O3'-C3'	5.44	126.23	119.70
1	AA	4735	DA	C5-C6-N6	-5.44	119.35	123.70
1	AA	4878	DA	C5-C6-N1	-5.44	114.98	117.70
1	AA	5879	DC	N3-C4-N4	5.44	121.81	118.00
11	AB	29	DC	N3-C4-N4	5.44	121.81	118.00
15	AF	10	DC	C4'-C3'-C2'	-5.44	98.20	103.10
20	AK	13	DA	C5-C6-N6	-5.44	119.35	123.70
22	AM	16	DA	C5-C6-N6	-5.44	119.35	123.70
24	AO	30	DG	C1'-O4'-C4'	-5.44	104.66	110.10
42	Ai	10	DC	N3-C4-C5	-5.44	119.72	121.90
44	Ak	22	DA	C5-C6-N6	-5.44	119.35	123.70
96	Bf	42	DA	C5-C6-N6	-5.44	119.35	123.70
103	Bm	45	DC	N3-C4-N4	5.44	121.81	118.00
143	CZ	32	DA	C5-C6-N1	-5.44	114.98	117.70
145	Cc	45	DA	C5-C6-N6	-5.44	119.35	123.70
150	Ch	41	DA	C4-C5-C6	5.44	119.72	117.00
154	Cr	5	DA	C5-C6-N6	-5.44	119.35	123.70
1	AA	1167	DC	N3-C4-C5	-5.44	119.72	121.90
1	AA	3537	DC	N3-C4-C5	-5.44	119.72	121.90
1	AA	3612	DA	C5-C6-N6	-5.44	119.35	123.70
1	AA	3706	DA	O4'-C1'-N9	5.44	111.81	108.00
1	AA	3754	DA	C5-C6-N1	-5.44	114.98	117.70
1	AA	3762	DC	N3-C4-N4	5.44	121.81	118.00
1	AA	3800	DC	N3-C4-N4	5.44	121.81	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5520	DA	C5-C6-N6	-5.44	119.35	123.70
1	AA	6048	DG	O4'-C1'-N9	5.44	111.81	108.00
1	AA	6249	DA	C5-C6-N6	-5.44	119.35	123.70
1	AA	6386	DC	N3-C4-N4	5.44	121.81	118.00
1	AA	6723	DC	N3-C4-C5	-5.44	119.72	121.90
1	AA	6755	DC	N3-C4-C5	-5.44	119.72	121.90
1	AA	7107	DC	N3-C4-N4	5.44	121.81	118.00
13	AD	38	DC	N3-C4-N4	5.44	121.81	118.00
25	AP	27	DA	C5-C6-N6	-5.44	119.35	123.70
33	AX	6	DA	C5-C6-N6	-5.44	119.35	123.70
37	Ac	1	DA	C4-C5-C6	5.44	119.72	117.00
63	B7	28	DA	C5-C6-N6	-5.44	119.35	123.70
69	BE	32	DA	C5-C6-N6	-5.44	119.35	123.70
77	BM	28	DC	N3-C4-C5	-5.44	119.72	121.90
80	BP	6	DA	C5-C6-N1	-5.44	114.98	117.70
82	BR	62	DA	C5-C6-N6	-5.44	119.35	123.70
83	BS	42	DA	C5-C6-N6	-5.44	119.35	123.70
88	BX	7	DA	C5-C6-N6	-5.44	119.35	123.70
93	Bc	30	DA	C5-C6-N6	-5.44	119.35	123.70
107	Bq	40	DA	C5-C6-N1	-5.44	114.98	117.70
129	CL	47	DA	C5-C6-N1	-5.44	114.98	117.70
132	CO	8	DA	C5-C6-N1	-5.44	114.98	117.70
1	AA	975	DT	O4'-C4'-C3'	-5.44	102.33	104.50
1	AA	2693	DC	N3-C4-N4	5.44	121.81	118.00
1	AA	3569	DC	N3-C4-N4	5.44	121.81	118.00
1	AA	6574	DC	N3-C4-C5	-5.44	119.73	121.90
1	AA	7142	DC	N3-C4-N4	5.44	121.81	118.00
18	AI	35	DA	C4-C5-C6	5.44	119.72	117.00
41	Ah	15	DA	C5-C6-N6	-5.44	119.35	123.70
46	Am	31	DG	C1'-O4'-C4'	-5.44	104.66	110.10
86	BV	27	DA	C5-C6-N6	-5.44	119.35	123.70
87	BW	28	DA	C5-C6-N6	-5.44	119.35	123.70
120	CC	38	DA	C4-C5-C6	5.44	119.72	117.00
139	CV	52	DC	N3-C4-C5	-5.44	119.72	121.90
1	AA	78	DA	C4-C5-C6	5.43	119.72	117.00
1	AA	511	DA	C5-C6-N6	-5.43	119.35	123.70
1	AA	1215	DA	C4-C5-C6	5.43	119.72	117.00
1	AA	1854	DA	C1'-O4'-C4'	-5.43	104.67	110.10
1	AA	2059	DC	N3-C4-C5	-5.43	119.73	121.90
1	AA	2255	DA	C5-C6-N6	-5.43	119.35	123.70
1	AA	4277	DC	N3-C4-N4	5.43	121.80	118.00
1	AA	4881	DA	C5-C6-N6	-5.43	119.35	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5202	DA	C5-C6-N1	-5.43	114.98	117.70
1	AA	5449	DA	O4'-C1'-C2'	-5.43	101.55	105.90
1	AA	5802	DA	C5-C6-N6	-5.43	119.35	123.70
1	AA	6553	DC	N3-C4-N4	5.43	121.80	118.00
1	AA	6778	DC	N3-C4-C5	-5.43	119.73	121.90
7	A5	21	DA	C5-C6-N6	-5.43	119.35	123.70
22	AM	27	DA	C4-C5-C6	5.43	119.72	117.00
26	AQ	48	DC	N3-C4-C5	-5.43	119.73	121.90
27	AR	30	DC	N3-C4-C5	-5.43	119.73	121.90
29	AT	6	DA	C5-C6-N6	-5.43	119.35	123.70
29	AT	35	DA	C5-C6-N1	-5.43	114.98	117.70
30	AU	32	DA	C5-C6-N6	-5.43	119.35	123.70
40	Ag	9	DA	C5-C6-N6	-5.43	119.35	123.70
42	Ai	19	DC	N3-C4-C5	-5.43	119.73	121.90
50	Au	47	DA	C5-C6-N1	-5.43	114.98	117.70
51	Av	14	DA	C5-C6-N6	-5.43	119.35	123.70
51	Av	38	DA	C5-C6-N6	-5.43	119.35	123.70
66	BB	29	DA	C5-C6-N6	-5.43	119.35	123.70
69	BE	46	DC	C4'-C3'-C2'	-5.43	98.21	103.10
76	BL	20	DA	C5-C6-N1	-5.43	114.98	117.70
77	BM	44	DA	C4-C5-C6	5.43	119.72	117.00
99	Bi	55	DA	C5-C6-N6	-5.43	119.35	123.70
101	Bk	62	DC	N3-C4-C5	-5.43	119.73	121.90
103	Bm	7	DC	N3-C4-C5	-5.43	119.73	121.90
112	C2	28	DC	N3-C4-C5	-5.43	119.73	121.90
147	Ce	3	DC	N3-C4-N4	5.43	121.80	118.00
155	Cs	26	DA	C5-C6-N6	-5.43	119.35	123.70
161	Cy	1	DA	C4-C5-C6	5.43	119.72	117.00
1	AA	144	DA	C5-C6-N1	-5.43	114.98	117.70
1	AA	158	DC	N3-C4-C5	-5.43	119.73	121.90
1	AA	1484	DC	N3-C4-N4	5.43	121.80	118.00
1	AA	2031	DC	N3-C4-N4	5.43	121.80	118.00
1	AA	2364	DA	C5-C6-N6	-5.43	119.35	123.70
1	AA	3733	DA	C5-C6-N6	-5.43	119.35	123.70
1	AA	5045	DA	C5-C6-N1	-5.43	114.98	117.70
1	AA	5675	DA	C5-C6-N6	-5.43	119.36	123.70
1	AA	6128	DC	N3-C4-C5	-5.43	119.73	121.90
1	AA	6756	DC	N3-C4-C5	-5.43	119.73	121.90
1	AA	7136	DC	N3-C4-C5	-5.43	119.73	121.90
16	AG	37	DA	C5-C6-N6	-5.43	119.35	123.70
18	AI	35	DA	C5-C6-N1	-5.43	114.98	117.70
31	AV	46	DC	N3-C4-N4	5.43	121.80	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
37	Ac	27	DA	C4-C5-C6	5.43	119.72	117.00
37	Ac	41	DA	C4-C5-C6	5.43	119.72	117.00
59	B3	41	DA	C5-C6-N1	-5.43	114.98	117.70
59	B3	45	DC	N3-C4-C5	-5.43	119.73	121.90
59	B3	47	DC	N3-C4-N4	5.43	121.80	118.00
64	B8	8	DC	N3-C4-N4	5.43	121.80	118.00
72	BH	20	DG	P-O3'-C3'	5.43	126.22	119.70
81	BQ	3	DC	N3-C4-N4	5.43	121.80	118.00
83	BS	31	DC	N3-C4-C5	-5.43	119.73	121.90
85	BU	31	DA	C5-C6-N6	-5.43	119.35	123.70
105	Bo	62	DC	N3-C4-N4	5.43	121.80	118.00
113	C3	35	DC	N3-C4-C5	-5.43	119.73	121.90
117	C7	30	DA	C5-C6-N6	-5.43	119.35	123.70
127	CJ	50	DA	C5-C6-N6	-5.43	119.36	123.70
131	CN	16	DC	N3-C4-N4	5.43	121.80	118.00
138	CU	1	DA	C5-C6-N6	-5.43	119.35	123.70
147	Ce	1	DC	N3-C4-N4	5.43	121.80	118.00
151	Ck	38	DC	N3-C4-N4	5.43	121.80	118.00
153	Cq	33	DC	O4'-C1'-N1	5.43	111.80	108.00
1	AA	458	DA	C4-C5-C6	5.43	119.72	117.00
1	AA	2231	DA	C5-C6-N6	-5.43	119.36	123.70
1	AA	3100	DA	C5-C6-N1	-5.43	114.98	117.70
1	AA	3101	DA	C5-C6-N6	-5.43	119.36	123.70
1	AA	3977	DA	C5-C6-N6	-5.43	119.36	123.70
1	AA	4834	DA	C5-C6-N6	-5.43	119.36	123.70
1	AA	6368	DC	N3-C4-N4	5.43	121.80	118.00
2	A0	48	DA	C5-C6-N6	-5.43	119.36	123.70
20	AK	2	DC	N3-C4-C5	-5.43	119.73	121.90
35	AZ	52	DC	C4'-C3'-C2'	-5.43	98.21	103.10
62	B6	36	DA	C4-C5-C6	5.43	119.72	117.00
67	BC	29	DC	N3-C4-N4	5.43	121.80	118.00
79	BO	19	DA	C5-C6-N6	-5.43	119.36	123.70
117	C7	49	DA	C5-C6-N6	-5.43	119.36	123.70
127	CJ	21	DA	C5-C6-N1	-5.43	114.98	117.70
143	CZ	7	DA	C5-C6-N6	-5.43	119.36	123.70
143	CZ	32	DA	C5-C6-N6	-5.43	119.36	123.70
1	AA	1295	DC	N3-C4-N4	5.43	121.80	118.00
1	AA	1554	DA	C5-C6-N6	-5.43	119.36	123.70
1	AA	1967	DC	N3-C4-N4	5.43	121.80	118.00
1	AA	2620	DA	C5-C6-N6	-5.43	119.36	123.70
1	AA	3646	DA	C5-C6-N6	-5.43	119.36	123.70
1	AA	3976	DA	C5-C6-N6	-5.43	119.36	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	4086	DG	O4'-C1'-N9	5.43	111.80	108.00
1	AA	4338	DG	O4'-C1'-C2'	-5.43	101.56	105.90
1	AA	4370	DA	C5-C6-N1	-5.43	114.98	117.70
1	AA	5655	DA	C4-C5-C6	5.43	119.72	117.00
1	AA	5719	DA	C5-C6-N6	-5.43	119.36	123.70
1	AA	6010	DA	C5-C6-N1	-5.43	114.98	117.70
1	AA	6359	DA	C5-C6-N6	-5.43	119.36	123.70
1	AA	6986	DT	O4'-C4'-C3'	-5.43	102.33	104.50
2	A0	49	DA	C5-C6-N6	-5.43	119.36	123.70
3	A1	15	DC	N3-C4-C5	-5.43	119.73	121.90
5	A3	12	DA	C5-C6-N6	-5.43	119.36	123.70
19	AJ	17	DA	C5-C6-N6	-5.43	119.36	123.70
20	AK	46	DA	C4-C5-C6	5.43	119.71	117.00
45	Al	9	DC	C5-C4-N4	-5.43	116.40	120.20
60	B4	10	DA	C5-C6-N6	-5.43	119.36	123.70
64	B8	29	DC	N3-C4-N4	5.43	121.80	118.00
71	BG	29	DA	C5-C6-N6	-5.43	119.36	123.70
78	BN	38	DA	C5-C6-N6	-5.43	119.36	123.70
89	BY	23	DC	N3-C4-N4	5.43	121.80	118.00
98	Bh	22	DC	N3-C4-N4	5.43	121.80	118.00
100	Bj	12	DC	N3-C4-C5	-5.43	119.73	121.90
100	Bj	28	DA	C5-C6-N6	-5.43	119.36	123.70
108	Br	28	DA	C5-C6-N1	-5.43	114.98	117.70
117	C7	6	DA	C5-C6-N6	-5.43	119.36	123.70
120	CC	16	DA	C5-C6-N6	-5.43	119.36	123.70
142	CY	38	DA	C5-C6-N1	-5.43	114.98	117.70
145	Cc	15	DC	N3-C4-C5	-5.43	119.73	121.90
145	Cc	31	DC	N3-C4-N4	5.43	121.80	118.00
147	Ce	33	DC	N3-C4-N4	5.43	121.80	118.00
151	Ck	23	DC	N3-C4-N4	5.43	121.80	118.00
157	Cu	45	DA	C5-C6-N6	-5.43	119.36	123.70
1	AA	883	DC	N3-C4-C5	-5.43	119.73	121.90
1	AA	1360	DA	C5-C6-N6	-5.43	119.36	123.70
1	AA	2610	DC	N3-C4-C5	-5.43	119.73	121.90
1	AA	3542	DT	P-O3'-C3'	5.43	126.21	119.70
1	AA	5172	DC	N3-C4-N4	5.43	121.80	118.00
1	AA	5786	DC	N3-C4-N4	5.43	121.80	118.00
1	AA	7224	DA	C5-C6-N6	-5.43	119.36	123.70
2	A0	28	DC	N3-C4-C5	-5.43	119.73	121.90
9	A7	42	DA	C5-C6-N6	-5.43	119.36	123.70
10	A8	17	DA	C4-C5-C6	5.43	119.71	117.00
15	AF	1	DC	N3-C4-C5	-5.43	119.73	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
80	BP	66	DA	C5-C6-N6	-5.43	119.36	123.70
93	Bc	14	DC	N3-C4-C5	-5.43	119.73	121.90
99	Bi	21	DC	N3-C4-C5	-5.43	119.73	121.90
102	Bl	20	DC	N3-C4-N4	5.43	121.80	118.00
116	C6	20	DA	C5-C6-N1	-5.43	114.99	117.70
1	AA	383	DA	C5-C6-N6	-5.43	119.36	123.70
1	AA	491	DA	C5-C6-N6	-5.43	119.36	123.70
1	AA	1092	DC	N3-C4-C5	-5.43	119.73	121.90
1	AA	1100	DC	N3-C4-N4	5.43	121.80	118.00
1	AA	1176	DA	C5-C6-N6	-5.43	119.36	123.70
1	AA	1212	DA	C5-C6-N1	-5.43	114.99	117.70
1	AA	1280	DC	N3-C4-C5	-5.43	119.73	121.90
1	AA	2049	DC	N3-C4-N4	5.43	121.80	118.00
1	AA	2161	DC	N3-C4-C5	-5.43	119.73	121.90
1	AA	2327	DC	N3-C4-N4	5.43	121.80	118.00
1	AA	2905	DA	C5-C6-N6	-5.43	119.36	123.70
1	AA	3427	DA	C5-C6-N6	-5.43	119.36	123.70
1	AA	3978	DA	C4-C5-C6	5.43	119.71	117.00
1	AA	4146	DA	C5-C6-N6	-5.43	119.36	123.70
1	AA	4674	DA	C4-C5-C6	5.43	119.71	117.00
1	AA	5089	DA	C5-C6-N6	-5.43	119.36	123.70
1	AA	5653	DA	C5-C6-N6	-5.43	119.36	123.70
1	AA	6056	DC	O4'-C1'-N1	5.43	111.80	108.00
1	AA	6130	DC	C1'-O4'-C4'	-5.43	104.67	110.10
1	AA	6800	DA	C5-C6-N6	-5.43	119.36	123.70
14	AE	42	DC	N3-C4-C5	-5.43	119.73	121.90
29	AT	28	DC	N3-C4-C5	-5.43	119.73	121.90
31	AV	5	DA	C4-C5-C6	5.43	119.71	117.00
31	AV	35	DA	C5-C6-N6	-5.43	119.36	123.70
33	AX	16	DA	C5-C6-N6	-5.43	119.36	123.70
36	Ab	7	DA	P-O3'-C3'	5.43	126.21	119.70
36	Ab	22	DA	C5-C6-N1	-5.43	114.99	117.70
41	Ah	8	DC	N3-C4-C5	-5.43	119.73	121.90
65	B9	48	DC	N3-C4-C5	-5.43	119.73	121.90
77	BM	21	DC	O4'-C1'-C2'	-5.43	101.56	105.90
79	BO	14	DA	C5-C6-N1	-5.43	114.99	117.70
81	BQ	17	DA	C5-C6-N6	-5.43	119.36	123.70
93	Bc	49	DT	O4'-C1'-N1	5.43	111.80	108.00
118	C8	8	DC	P-O3'-C3'	5.43	126.21	119.70
121	CD	10	DC	N3-C4-N4	5.43	121.80	118.00
143	CZ	46	DC	N3-C4-C5	-5.43	119.73	121.90
151	Ck	38	DC	N3-C4-C5	-5.43	119.73	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
157	Cu	23	DA	C4-C5-C6	5.43	119.71	117.00
160	Cx	8	DA	C5-C6-N1	-5.43	114.99	117.70
1	AA	412	DC	N3-C4-N4	5.42	121.80	118.00
1	AA	752	DA	C5-C6-N6	-5.42	119.36	123.70
1	AA	819	DG	O4'-C1'-C2'	-5.42	101.56	105.90
1	AA	1411	DC	N3-C4-C5	-5.42	119.73	121.90
1	AA	1631	DC	N3-C4-C5	-5.42	119.73	121.90
1	AA	1829	DC	N3-C4-N4	5.42	121.80	118.00
1	AA	3173	DA	C5-C6-N6	-5.42	119.36	123.70
1	AA	3496	DA	C5-C6-N6	-5.42	119.36	123.70
1	AA	3730	DA	C5-C6-N6	-5.42	119.36	123.70
1	AA	4083	DA	C5-C6-N6	-5.42	119.36	123.70
1	AA	4930	DA	C5-C6-N6	-5.42	119.36	123.70
1	AA	4946	DA	C5-C6-N1	-5.42	114.99	117.70
1	AA	5574	DA	C5-C6-N6	-5.42	119.36	123.70
1	AA	5887	DG	P-O3'-C3'	5.42	126.21	119.70
1	AA	6280	DA	C5-C6-N6	-5.42	119.36	123.70
1	AA	6283	DC	N3-C4-C5	-5.42	119.73	121.90
3	A1	14	DC	N3-C4-C5	-5.42	119.73	121.90
7	A5	48	DA	P-O5'-C5'	5.42	129.58	120.90
13	AD	20	DA	C5-C6-N1	-5.42	114.99	117.70
14	AE	31	DA	C5-C6-N1	-5.42	114.99	117.70
17	AH	24	DA	C5-C6-N6	-5.42	119.36	123.70
44	Ak	1	DA	C5-C6-N6	-5.42	119.36	123.70
57	B1	40	DC	N3-C4-N4	5.42	121.80	118.00
70	BF	32	DA	C4-C5-C6	5.42	119.71	117.00
95	Be	18	DC	N3-C4-C5	-5.42	119.73	121.90
103	Bm	4	DC	N3-C4-N4	5.42	121.80	118.00
107	Bq	24	DA	C5-C6-N1	-5.42	114.99	117.70
113	C3	9	DA	C5-C6-N6	-5.42	119.36	123.70
114	C4	55	DA	C5-C6-N1	-5.42	114.99	117.70
115	C5	49	DA	C4-C5-C6	5.42	119.71	117.00
126	CI	7	DC	N3-C4-N4	5.42	121.80	118.00
133	CP	13	DA	C5-C6-N6	-5.42	119.36	123.70
139	CV	32	DA	C5-C6-N6	-5.42	119.36	123.70
156	Ct	29	DA	C5-C6-N6	-5.42	119.36	123.70
160	Cx	42	DA	O4'-C1'-N9	5.42	111.80	108.00
1	AA	260	DC	N3-C4-N4	5.42	121.80	118.00
1	AA	261	DA	C5-C6-N6	-5.42	119.36	123.70
1	AA	1858	DA	C5-C6-N1	-5.42	114.99	117.70
1	AA	3448	DC	N3-C4-C5	-5.42	119.73	121.90
1	AA	3579	DC	N3-C4-N4	5.42	121.80	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	4264	DA	C5-C6-N6	-5.42	119.36	123.70
1	AA	4678	DA	C5-C6-N6	-5.42	119.36	123.70
1	AA	6029	DA	C5-C6-N1	-5.42	114.99	117.70
1	AA	6360	DA	C4-C5-C6	5.42	119.71	117.00
11	AB	33	DC	N3-C4-N4	5.42	121.80	118.00
14	AE	43	DA	C5-C6-N6	-5.42	119.36	123.70
52	Aw	40	DA	C5-C6-N1	-5.42	114.99	117.70
79	BO	1	DA	C5-C6-N1	-5.42	114.99	117.70
96	Bf	18	DC	N3-C4-C5	-5.42	119.73	121.90
96	Bf	38	DA	C5-C6-N6	-5.42	119.36	123.70
1	AA	512	DC	N3-C4-N4	5.42	121.80	118.00
1	AA	978	DC	N3-C4-C5	-5.42	119.73	121.90
1	AA	990	DA	O4'-C1'-C2'	-5.42	101.56	105.90
1	AA	1167	DC	N3-C4-N4	5.42	121.80	118.00
1	AA	1921	DT	O4'-C1'-C2'	-5.42	101.56	105.90
1	AA	2205	DA	C5-C6-N6	-5.42	119.36	123.70
1	AA	2320	DA	C5-C6-N6	-5.42	119.36	123.70
1	AA	3820	DC	N3-C4-N4	5.42	121.79	118.00
1	AA	5574	DA	C4-C5-C6	5.42	119.71	117.00
1	AA	5598	DC	N3-C4-N4	5.42	121.80	118.00
1	AA	6315	DA	C4-C5-C6	5.42	119.71	117.00
6	A4	9	DA	C5-C6-N6	-5.42	119.36	123.70
9	A7	44	DC	N3-C4-N4	5.42	121.80	118.00
15	AF	15	DA	C5-C6-N6	-5.42	119.36	123.70
17	AH	37	DC	N3-C4-N4	5.42	121.80	118.00
20	AK	37	DG	O4'-C1'-N9	5.42	111.80	108.00
22	AM	14	DC	N3-C4-N4	5.42	121.80	118.00
25	AP	15	DA	C5-C6-N6	-5.42	119.36	123.70
28	AS	12	DA	C5-C6-N6	-5.42	119.36	123.70
50	Au	10	DC	N3-C4-C5	-5.42	119.73	121.90
52	Aw	36	DC	N3-C4-N4	5.42	121.80	118.00
57	B1	46	DA	C5-C6-N6	-5.42	119.36	123.70
58	B2	23	DA	C5-C6-N6	-5.42	119.36	123.70
62	B6	11	DA	C4-C5-C6	5.42	119.71	117.00
77	BM	17	DA	C5-C6-N6	-5.42	119.36	123.70
78	BN	7	DC	N3-C4-C5	-5.42	119.73	121.90
78	BN	8	DA	C5-C6-N1	-5.42	114.99	117.70
87	BW	20	DA	C5-C6-N1	-5.42	114.99	117.70
106	Bp	16	DC	N3-C4-N4	5.42	121.80	118.00
109	Bs	9	DA	C4-C5-C6	5.42	119.71	117.00
111	C1	28	DA	C5-C6-N6	-5.42	119.36	123.70
120	CC	39	DA	C5-C6-N1	-5.42	114.99	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
127	CJ	22	DA	C5-C6-N6	-5.42	119.36	123.70
130	CM	37	DA	C5-C6-N6	-5.42	119.36	123.70
139	CV	21	DA	C5-C6-N6	-5.42	119.36	123.70
143	CZ	15	DA	C5-C6-N6	-5.42	119.36	123.70
146	Cd	40	DA	C5-C6-N6	-5.42	119.36	123.70
157	Cu	53	DA	C5-C6-N1	-5.42	114.99	117.70
158	Cv	37	DA	C5-C6-N1	-5.42	114.99	117.70
1	AA	2090	DC	N3-C4-C5	-5.42	119.73	121.90
1	AA	3535	DC	N3-C4-N4	5.42	121.79	118.00
1	AA	4128	DC	N3-C4-N4	5.42	121.79	118.00
1	AA	6655	DC	O4'-C1'-C2'	-5.42	101.56	105.90
1	AA	6992	DC	N3-C4-N4	5.42	121.79	118.00
1	AA	7025	DA	C5-C6-N6	-5.42	119.36	123.70
13	AD	31	DC	N3-C4-N4	5.42	121.79	118.00
49	As	47	DA	C5-C6-N6	-5.42	119.36	123.70
72	BH	22	DA	C5-C6-N6	-5.42	119.36	123.70
80	BP	64	DC	N3-C4-N4	5.42	121.79	118.00
109	Bs	35	DC	N3-C4-N4	5.42	121.79	118.00
116	C6	17	DC	N3-C4-N4	5.42	121.79	118.00
132	CO	40	DA	C5-C6-N6	-5.42	119.36	123.70
143	CZ	30	DA	C5-C6-N1	-5.42	114.99	117.70
146	Cd	12	DC	N3-C4-C5	-5.42	119.73	121.90
150	Ch	23	DC	N3-C4-N4	5.42	121.79	118.00
1	AA	341	DA	C5-C6-N1	-5.42	114.99	117.70
1	AA	1607	DA	C5-C6-N1	-5.42	114.99	117.70
1	AA	2354	DC	N3-C4-N4	5.42	121.79	118.00
1	AA	2456	DT	P-O3'-C3'	5.42	126.20	119.70
1	AA	2834	DC	N3-C4-N4	5.42	121.79	118.00
1	AA	3569	DC	N3-C4-C5	-5.42	119.73	121.90
1	AA	3671	DC	N3-C4-N4	5.42	121.79	118.00
1	AA	3710	DC	N3-C4-N4	5.42	121.79	118.00
1	AA	3752	DA	C5-C6-N6	-5.42	119.36	123.70
1	AA	3772	DA	C5-C6-N6	-5.42	119.36	123.70
1	AA	4442	DC	N3-C4-N4	5.42	121.79	118.00
1	AA	4548	DA	C5-C6-N6	-5.42	119.36	123.70
1	AA	5055	DA	C4-C5-C6	5.42	119.71	117.00
1	AA	5420	DA	C5-C6-N6	-5.42	119.36	123.70
1	AA	6975	DA	C5-C6-N6	-5.42	119.37	123.70
1	AA	7075	DC	O4'-C1'-C2'	-5.42	101.56	105.90
3	A1	25	DA	C5-C6-N1	-5.42	114.99	117.70
4	A2	6	DA	C5-C6-N6	-5.42	119.36	123.70
31	AV	8	DC	N3-C4-N4	5.42	121.79	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
57	B1	44	DA	C5-C6-N6	-5.42	119.36	123.70
66	BB	20	DA	C5-C6-N6	-5.42	119.36	123.70
67	BC	35	DA	C5-C6-N6	-5.42	119.36	123.70
94	Bd	43	DA	C5-C6-N6	-5.42	119.37	123.70
95	Be	43	DC	N3-C4-N4	5.42	121.79	118.00
101	Bk	58	DA	C5-C6-N6	-5.42	119.37	123.70
135	CR	25	DC	N3-C4-C5	-5.42	119.73	121.90
138	CU	4	DA	C5-C6-N6	-5.42	119.36	123.70
146	Cd	36	DA	C5-C6-N6	-5.42	119.37	123.70
150	Ch	1	DA	C4-C5-C6	5.42	119.71	117.00
1	AA	18	DC	N3-C4-C5	-5.42	119.73	121.90
1	AA	158	DC	N3-C4-N4	5.42	121.79	118.00
1	AA	168	DC	N3-C4-N4	5.42	121.79	118.00
1	AA	251	DA	C5-C6-N6	-5.42	119.37	123.70
1	AA	674	DC	N3-C4-N4	5.42	121.79	118.00
1	AA	995	DA	C5-C6-N6	-5.42	119.37	123.70
1	AA	1029	DC	N3-C4-C5	-5.42	119.73	121.90
1	AA	1546	DA	C5-C6-N6	-5.42	119.37	123.70
1	AA	1655	DC	N3-C4-N4	5.42	121.79	118.00
1	AA	2085	DA	C5-C6-N6	-5.42	119.37	123.70
1	AA	2501	DT	O4'-C1'-N1	5.42	111.79	108.00
1	AA	2673	DC	N3-C4-C5	-5.42	119.73	121.90
1	AA	3024	DC	N3-C4-N4	5.42	121.79	118.00
1	AA	3139	DC	N3-C4-C5	-5.42	119.73	121.90
1	AA	3691	DA	C5-C6-N6	-5.42	119.37	123.70
1	AA	3716	DC	N3-C4-C5	-5.42	119.73	121.90
1	AA	5161	DG	O4'-C1'-C2'	-5.42	101.57	105.90
1	AA	6014	DA	C5-C6-N1	-5.42	114.99	117.70
1	AA	6278	DA	P-O3'-C3'	5.42	126.20	119.70
1	AA	6668	DT	P-O3'-C3'	5.42	126.20	119.70
1	AA	7142	DC	N3-C4-C5	-5.42	119.73	121.90
3	A1	15	DC	N3-C4-N4	5.42	121.79	118.00
4	A2	32	DA	C5-C6-N6	-5.42	119.37	123.70
8	A6	26	DA	C5-C6-N6	-5.42	119.37	123.70
17	AH	6	DA	C5-C6-N6	-5.42	119.37	123.70
24	AO	23	DA	C5-C6-N6	-5.42	119.37	123.70
24	AO	24	DC	O4'-C1'-C2'	-5.42	101.57	105.90
29	AT	47	DG	P-O3'-C3'	5.42	126.20	119.70
42	Ai	22	DA	C5-C6-N6	-5.42	119.37	123.70
86	BV	1	DC	N3-C4-C5	-5.42	119.73	121.90
90	BZ	61	DA	C5-C6-N6	-5.42	119.37	123.70
108	Br	12	DC	N3-C4-N4	5.42	121.79	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
118	C8	7	DC	N3-C4-C5	-5.42	119.73	121.90
120	CC	44	DA	C5-C6-N1	-5.42	114.99	117.70
131	CN	36	DA	C5-C6-N6	-5.42	119.37	123.70
132	CO	10	DA	C5-C6-N1	-5.42	114.99	117.70
133	CP	47	DC	N3-C4-C5	-5.42	119.73	121.90
159	Cw	17	DC	O4'-C4'-C3'	-5.42	102.33	104.50
1	AA	243	DC	C1'-O4'-C4'	-5.42	104.69	110.10
1	AA	2465	DT	C4'-C3'-C2'	-5.42	98.23	103.10
1	AA	4084	DA	C5-C6-N6	-5.42	119.37	123.70
1	AA	4118	DC	N3-C4-N4	5.42	121.79	118.00
1	AA	4539	DA	C5-C6-N1	-5.42	114.99	117.70
1	AA	4933	DA	C5-C6-N1	-5.42	114.99	117.70
1	AA	6679	DA	C5-C6-N6	-5.42	119.37	123.70
1	AA	6684	DA	C5-C6-N6	-5.42	119.37	123.70
1	AA	6779	DA	C5-C6-N6	-5.42	119.37	123.70
1	AA	7198	DC	N3-C4-C5	-5.42	119.73	121.90
28	AS	58	DA	C5-C6-N6	-5.42	119.37	123.70
42	Ai	20	DA	C5-C6-N6	-5.42	119.37	123.70
53	Ax	4	DA	C5-C6-N6	-5.42	119.37	123.70
72	BH	35	DA	C5-C6-N6	-5.42	119.37	123.70
103	Bm	5	DC	N3-C4-N4	5.42	121.79	118.00
116	C6	33	DA	C4-C5-C6	5.42	119.71	117.00
126	CI	18	DA	C5-C6-N6	-5.42	119.37	123.70
127	CJ	28	DC	N3-C4-C5	-5.42	119.73	121.90
127	CJ	47	DA	C5-C6-N6	-5.42	119.37	123.70
142	CY	18	DA	C5-C6-N1	-5.42	114.99	117.70
144	Cb	12	DA	C5-C6-N6	-5.42	119.37	123.70
162	Cz	8	DC	N3-C4-C5	-5.42	119.73	121.90
1	AA	293	DC	N3-C4-N4	5.41	121.79	118.00
1	AA	543	DA	C5-C6-N6	-5.41	119.37	123.70
1	AA	842	DA	C4-C5-C6	5.41	119.71	117.00
1	AA	990	DA	C5-C6-N1	-5.41	114.99	117.70
1	AA	1047	DA	C5-C6-N6	-5.41	119.37	123.70
1	AA	1319	DC	N3-C4-N4	5.41	121.79	118.00
1	AA	1724	DA	C5-C6-N1	-5.41	114.99	117.70
1	AA	2929	DA	C5-C6-N6	-5.41	119.37	123.70
1	AA	2941	DC	N3-C4-N4	5.41	121.79	118.00
1	AA	3049	DA	C4-C5-C6	5.41	119.71	117.00
1	AA	3203	DC	N3-C4-C5	-5.41	119.73	121.90
1	AA	3206	DC	P-O3'-C3'	5.41	126.20	119.70
1	AA	3766	DC	N3-C4-N4	5.41	121.79	118.00
1	AA	4748	DA	C5-C6-N6	-5.41	119.37	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5611	DG	O4'-C1'-N9	5.41	111.79	108.00
1	AA	5992	DA	C5-C6-N6	-5.41	119.37	123.70
1	AA	6131	DA	C5-C6-N6	-5.41	119.37	123.70
1	AA	7062	DC	N3-C4-N4	5.41	121.79	118.00
1	AA	7079	DC	N3-C4-C5	-5.41	119.73	121.90
8	A6	6	DA	C5-C6-N6	-5.41	119.37	123.70
9	A7	10	DA	C4-C5-C6	5.41	119.71	117.00
14	AE	2	DA	C5-C6-N6	-5.41	119.37	123.70
28	AS	28	DC	N3-C4-N4	5.41	121.79	118.00
40	Ag	3	DC	O4'-C1'-C2'	-5.41	101.57	105.90
41	Ah	26	DA	C5-C6-N6	-5.41	119.37	123.70
46	Am	1	DC	N3-C4-N4	5.41	121.79	118.00
46	Am	3	DA	C5-C6-N6	-5.41	119.37	123.70
50	Au	23	DA	C5-C6-N6	-5.41	119.37	123.70
53	Ax	9	DA	C5-C6-N1	-5.41	114.99	117.70
68	BD	30	DA	C5-C6-N6	-5.41	119.37	123.70
69	BE	65	DA	C5-C6-N6	-5.41	119.37	123.70
78	BN	9	DA	C5-C6-N6	-5.41	119.37	123.70
90	BZ	35	DA	C5-C6-N1	-5.41	114.99	117.70
99	Bi	59	DA	C4-C5-C6	5.41	119.71	117.00
106	Bp	17	DA	C5-C6-N6	-5.41	119.37	123.70
117	C7	16	DA	C5-C6-N6	-5.41	119.37	123.70
123	CF	34	DA	C5-C6-N1	-5.41	114.99	117.70
126	CI	27	DA	C5-C6-N6	-5.41	119.37	123.70
135	CR	33	DC	N3-C4-N4	5.41	121.79	118.00
149	Cg	11	DA	C5-C6-N1	-5.41	114.99	117.70
159	Cw	52	DA	C4-C5-C6	5.41	119.71	117.00
1	AA	621	DC	N3-C4-N4	5.41	121.79	118.00
1	AA	786	DC	N3-C4-N4	5.41	121.79	118.00
1	AA	1328	DC	C3'-C2'-C1'	-5.41	96.00	102.50
1	AA	3055	DA	C5-C6-N6	-5.41	119.37	123.70
1	AA	3721	DC	N3-C4-N4	5.41	121.79	118.00
1	AA	4012	DA	C5-C6-N1	-5.41	114.99	117.70
1	AA	4526	DA	C5-C6-N6	-5.41	119.37	123.70
1	AA	4673	DC	N3-C4-N4	5.41	121.79	118.00
1	AA	5867	DC	N3-C4-N4	5.41	121.79	118.00
1	AA	7126	DC	N3-C4-C5	-5.41	119.73	121.90
1	AA	7208	DA	C5-C6-N6	-5.41	119.37	123.70
8	A6	27	DT	P-O3'-C3'	5.41	126.19	119.70
25	AP	30	DT	P-O3'-C3'	5.41	126.19	119.70
27	AR	63	DT	O4'-C1'-N1	5.41	111.79	108.00
80	BP	42	DA	C5-C6-N6	-5.41	119.37	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
82	BR	16	DA	C5-C6-N6	-5.41	119.37	123.70
114	C4	14	DG	O4'-C1'-C2'	-5.41	101.57	105.90
122	CE	22	DG	O4'-C4'-C3'	-5.41	102.33	104.50
142	CY	31	DA	C4-C5-C6	5.41	119.71	117.00
1	AA	1562	DC	N3-C4-N4	5.41	121.79	118.00
1	AA	1791	DA	C4-C5-C6	5.41	119.71	117.00
1	AA	1854	DA	C5-C6-N6	-5.41	119.37	123.70
1	AA	2043	DC	N3-C4-N4	5.41	121.79	118.00
1	AA	2254	DA	C5-C6-N6	-5.41	119.37	123.70
1	AA	3682	DC	N3-C4-C5	-5.41	119.74	121.90
1	AA	4808	DA	C5-C6-N1	-5.41	114.99	117.70
1	AA	5304	DA	C5-C6-N1	-5.41	115.00	117.70
1	AA	5671	DA	C5-C6-N6	-5.41	119.37	123.70
1	AA	5722	DA	C5-C6-N6	-5.41	119.37	123.70
1	AA	5881	DC	N3-C4-N4	5.41	121.79	118.00
1	AA	6608	DC	N3-C4-C5	-5.41	119.74	121.90
1	AA	7136	DC	N3-C4-N4	5.41	121.79	118.00
6	A4	47	DA	C5-C6-N6	-5.41	119.37	123.70
21	AL	29	DC	N3-C4-N4	5.41	121.79	118.00
22	AM	27	DA	C5-C6-N6	-5.41	119.37	123.70
25	AP	6	DC	N3-C4-C5	-5.41	119.73	121.90
27	AR	50	DC	N3-C4-N4	5.41	121.79	118.00
46	Am	40	DA	C5-C6-N6	-5.41	119.37	123.70
68	BD	5	DA	C5-C6-N6	-5.41	119.37	123.70
83	BS	31	DC	N3-C4-N4	5.41	121.79	118.00
89	BY	23	DC	N3-C4-C5	-5.41	119.74	121.90
92	Bb	63	DC	N3-C4-N4	5.41	121.79	118.00
130	CM	35	DC	N3-C4-C5	-5.41	119.74	121.90
137	CT	19	DA	O4'-C4'-C3'	-5.41	102.34	104.50
148	Cf	47	DA	C5-C6-N1	-5.41	114.99	117.70
156	Ct	20	DC	N3-C4-N4	5.41	121.79	118.00
1	AA	64	DC	P-O3'-C3'	5.41	126.19	119.70
1	AA	1219	DA	C5-C6-N6	-5.41	119.37	123.70
1	AA	1333	DA	C5-C6-N1	-5.41	115.00	117.70
1	AA	1792	DA	C5-C6-N1	-5.41	115.00	117.70
1	AA	2074	DC	N3-C4-C5	-5.41	119.74	121.90
1	AA	2240	DA	C5-C6-N1	-5.41	115.00	117.70
1	AA	2376	DA	C5-C6-N1	-5.41	115.00	117.70
1	AA	2421	DC	N3-C4-N4	5.41	121.78	118.00
1	AA	3296	DA	C4-C5-C6	5.41	119.70	117.00
1	AA	3587	DA	C5-C6-N6	-5.41	119.37	123.70
1	AA	3768	DT	OP2-P-O3'	-5.41	93.30	105.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	4128	DC	N3-C4-C5	-5.41	119.74	121.90
1	AA	4235	DA	C5-C6-N1	-5.41	115.00	117.70
1	AA	4707	DA	C5-C6-N6	-5.41	119.37	123.70
1	AA	5099	DT	O4'-C1'-N1	5.41	111.79	108.00
1	AA	5115	DC	N3-C4-C5	-5.41	119.74	121.90
1	AA	5377	DC	N3-C4-N4	5.41	121.79	118.00
1	AA	5638	DA	C5-C6-N6	-5.41	119.37	123.70
1	AA	6012	DG	P-O3'-C3'	5.41	126.19	119.70
1	AA	6145	DA	C5-C6-N1	-5.41	115.00	117.70
1	AA	6558	DT	O4'-C1'-C2'	-5.41	101.57	105.90
1	AA	6953	DA	C5-C6-N6	-5.41	119.37	123.70
1	AA	7138	DC	N3-C4-C5	-5.41	119.74	121.90
10	A8	26	DC	N3-C4-N4	5.41	121.79	118.00
13	AD	27	DC	N3-C4-C5	-5.41	119.74	121.90
16	AG	2	DA	C5-C6-N6	-5.41	119.37	123.70
30	AU	17	DA	C5-C6-N1	-5.41	115.00	117.70
56	B0	46	DC	N3-C4-N4	5.41	121.79	118.00
64	B8	19	DC	N3-C4-N4	5.41	121.79	118.00
73	BI	16	DA	C4-C5-C6	5.41	119.70	117.00
77	BM	23	DC	N3-C4-N4	5.41	121.79	118.00
87	BW	52	DC	N3-C4-N4	5.41	121.79	118.00
100	Bj	17	DC	N3-C4-N4	5.41	121.79	118.00
105	Bo	29	DC	N3-C4-C5	-5.41	119.74	121.90
112	C2	30	DA	C4'-C3'-C2'	-5.41	98.23	103.10
121	CD	41	DA	C5-C6-N6	-5.41	119.37	123.70
125	CH	7	DC	N3-C4-C5	-5.41	119.74	121.90
131	CN	9	DC	N3-C4-C5	-5.41	119.74	121.90
134	CQ	20	DA	C5-C6-N6	-5.41	119.37	123.70
143	CZ	14	DA	C5-C6-N6	-5.41	119.37	123.70
147	Ce	15	DA	C5-C6-N6	-5.41	119.37	123.70
149	Cg	4	DC	N3-C4-N4	5.41	121.79	118.00
1	AA	1703	DA	C5-C6-N1	-5.41	115.00	117.70
1	AA	2201	DC	N3-C4-N4	5.41	121.78	118.00
1	AA	2357	DA	C5-C6-N6	-5.41	119.37	123.70
1	AA	5046	DC	N3-C4-N4	5.41	121.78	118.00
1	AA	7032	DC	N3-C4-C5	-5.41	119.74	121.90
45	Al	5	DC	O4'-C1'-C2'	-5.41	101.57	105.90
59	B3	30	DC	N3-C4-C5	-5.41	119.74	121.90
92	Bb	3	DC	C4'-C3'-C2'	-5.41	98.23	103.10
102	Bl	29	DA	C5-C6-N6	-5.41	119.38	123.70
103	Bm	10	DC	C4'-C3'-C2'	-5.41	98.23	103.10
144	Cb	34	DA	C8-N9-C4	-5.41	103.64	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
157	Cu	52	DA	C5-C6-N1	-5.41	115.00	117.70
1	AA	228	DC	N3-C4-N4	5.41	121.78	118.00
1	AA	337	DC	N3-C4-C5	-5.41	119.74	121.90
1	AA	380	DG	P-O3'-C3'	5.41	126.19	119.70
1	AA	403	DC	N3-C4-C5	-5.41	119.74	121.90
1	AA	655	DC	N3-C4-N4	5.41	121.78	118.00
1	AA	663	DC	C1'-O4'-C4'	-5.41	104.69	110.10
1	AA	1057	DT	P-O5'-C5'	-5.41	112.25	120.90
1	AA	1222	DC	N3-C4-N4	5.41	121.78	118.00
1	AA	1528	DA	C5-C6-N1	-5.41	115.00	117.70
1	AA	1782	DG	O4'-C1'-N9	5.41	111.78	108.00
1	AA	2017	DA	C5-C6-N1	-5.41	115.00	117.70
1	AA	2897	DG	C3'-C2'-C1'	-5.41	96.01	102.50
1	AA	2937	DC	O4'-C1'-C2'	-5.41	101.58	105.90
1	AA	3994	DA	C5-C6-N6	-5.41	119.38	123.70
1	AA	4005	DA	C5-C6-N6	-5.41	119.38	123.70
1	AA	5093	DA	C5-C6-N6	-5.41	119.38	123.70
1	AA	5184	DA	C4-C5-C6	5.41	119.70	117.00
1	AA	5220	DC	N3-C4-C5	-5.41	119.74	121.90
1	AA	5425	DA	C4-C5-C6	5.41	119.70	117.00
1	AA	5519	DA	C5-C6-N6	-5.41	119.38	123.70
1	AA	5940	DC	N3-C4-C5	-5.41	119.74	121.90
1	AA	6642	DC	N3-C4-C5	-5.41	119.74	121.90
16	AG	43	DC	N3-C4-N4	5.41	121.78	118.00
19	AJ	28	DC	N3-C4-N4	5.41	121.78	118.00
27	AR	38	DA	C5-C6-N6	-5.41	119.38	123.70
32	AW	39	DC	N3-C4-C5	-5.41	119.74	121.90
46	Am	32	DA	C5-C6-N6	-5.41	119.38	123.70
56	B0	24	DC	N3-C4-C5	-5.41	119.74	121.90
73	BI	23	DA	C5-C6-N6	-5.41	119.38	123.70
85	BU	40	DA	C5-C6-N6	-5.41	119.38	123.70
86	BV	12	DA	C5-C6-N6	-5.41	119.38	123.70
102	Bl	37	DC	N3-C4-N4	5.41	121.78	118.00
105	Bo	7	DA	C5-C6-N6	-5.41	119.38	123.70
110	C0	32	DC	N3-C4-N4	5.41	121.78	118.00
131	CN	26	DA	C5-C6-N6	-5.41	119.38	123.70
142	CY	22	DA	C5-C6-N6	-5.41	119.38	123.70
151	Ck	1	DC	N3-C4-N4	5.41	121.78	118.00
1	AA	2246	DC	N3-C4-N4	5.40	121.78	118.00
1	AA	2759	DA	C1'-O4'-C4'	-5.40	104.70	110.10
1	AA	2826	DC	N3-C4-C5	-5.40	119.74	121.90
1	AA	4679	DA	C5-C6-N6	-5.40	119.38	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5305	DA	C5-C6-N6	-5.40	119.38	123.70
1	AA	5466	DC	N3-C4-C5	-5.40	119.74	121.90
1	AA	6440	DC	N3-C4-C5	-5.40	119.74	121.90
1	AA	6671	DA	C5-C6-N6	-5.40	119.38	123.70
1	AA	6911	DC	N3-C4-N4	5.40	121.78	118.00
11	AB	32	DC	O4'-C1'-C2'	-5.40	101.58	105.90
19	AJ	8	DA	C5-C6-N6	-5.40	119.38	123.70
22	AM	18	DA	C5-C6-N1	-5.40	115.00	117.70
51	Av	36	DA	C5-C6-N6	-5.40	119.38	123.70
53	Ax	39	DC	N3-C4-C5	-5.40	119.74	121.90
103	Bm	13	DC	N3-C4-C5	-5.40	119.74	121.90
131	CN	16	DC	N3-C4-C5	-5.40	119.74	121.90
1	AA	837	DA	C5-C6-N6	-5.40	119.38	123.70
1	AA	1048	DA	C5-C6-N6	-5.40	119.38	123.70
1	AA	1437	DC	N3-C4-N4	5.40	121.78	118.00
1	AA	1595	DA	C1'-O4'-C4'	-5.40	104.70	110.10
1	AA	1603	DC	N3-C4-N4	5.40	121.78	118.00
1	AA	2128	DC	N3-C4-C5	-5.40	119.74	121.90
1	AA	2236	DA	C5-C6-N1	-5.40	115.00	117.70
1	AA	3350	DG	O4'-C1'-N9	5.40	111.78	108.00
1	AA	3607	DC	N3-C4-N4	5.40	121.78	118.00
1	AA	4070	DC	N3-C4-N4	5.40	121.78	118.00
1	AA	4367	DA	O4'-C1'-C2'	-5.40	101.58	105.90
1	AA	4461	DA	C4-C5-C6	5.40	119.70	117.00
1	AA	5271	DC	N3-C4-N4	5.40	121.78	118.00
1	AA	5501	DA	C5-C6-N1	-5.40	115.00	117.70
1	AA	5545	DA	O4'-C1'-N9	5.40	111.78	108.00
1	AA	6101	DT	P-O3'-C3'	5.40	126.18	119.70
1	AA	6148	DA	C5-C6-N6	-5.40	119.38	123.70
1	AA	6263	DC	N3-C4-N4	5.40	121.78	118.00
1	AA	6327	DA	C5-C6-N6	-5.40	119.38	123.70
4	A2	14	DA	O4'-C1'-N9	5.40	111.78	108.00
11	AB	2	DC	N3-C4-C5	-5.40	119.74	121.90
17	AH	20	DC	N3-C4-N4	5.40	121.78	118.00
23	AN	38	DA	C5-C6-N6	-5.40	119.38	123.70
28	AS	28	DC	N3-C4-C5	-5.40	119.74	121.90
32	AW	18	DC	N3-C4-C5	-5.40	119.74	121.90
33	AX	13	DA	C5-C6-N6	-5.40	119.38	123.70
35	AZ	42	DC	N3-C4-N4	5.40	121.78	118.00
44	Ak	30	DA	C1'-O4'-C4'	-5.40	104.70	110.10
52	Aw	24	DA	C4-C5-C6	5.40	119.70	117.00
54	Ay	5	DA	C5-C6-N6	-5.40	119.38	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
59	B3	31	DC	N3-C4-N4	5.40	121.78	118.00
67	BC	1	DA	C5-C6-N1	-5.40	115.00	117.70
72	BH	32	DC	N3-C4-C5	-5.40	119.74	121.90
107	Bq	55	DA	C5-C6-N1	-5.40	115.00	117.70
118	C8	22	DA	C5-C6-N6	-5.40	119.38	123.70
136	CS	6	DC	N3-C4-N4	5.40	121.78	118.00
139	CV	3	DA	C5-C6-N6	-5.40	119.38	123.70
140	CW	16	DA	C5-C6-N1	-5.40	115.00	117.70
147	Ce	22	DA	C5-C6-N6	-5.40	119.38	123.70
159	Cw	24	DA	C5-C6-N6	-5.40	119.38	123.70
1	AA	243	DC	N3-C4-N4	5.40	121.78	118.00
1	AA	1554	DA	C5-C6-N1	-5.40	115.00	117.70
1	AA	1707	DA	C5-C6-N6	-5.40	119.38	123.70
1	AA	2397	DA	C5-C6-N1	-5.40	115.00	117.70
1	AA	2842	DC	N3-C4-C5	-5.40	119.74	121.90
1	AA	3202	DA	C5-C6-N1	-5.40	115.00	117.70
1	AA	4030	DA	C5-C6-N6	-5.40	119.38	123.70
1	AA	4274	DA	C5-C6-N1	-5.40	115.00	117.70
1	AA	4739	DA	C4-C5-C6	5.40	119.70	117.00
1	AA	5137	DT	O4'-C1'-C2'	-5.40	101.58	105.90
1	AA	5605	DA	C5-C6-N6	-5.40	119.38	123.70
3	A1	19	DA	C5-C6-N1	-5.40	115.00	117.70
29	AT	43	DA	C5-C6-N6	-5.40	119.38	123.70
34	AY	29	DC	N3-C4-C5	-5.40	119.74	121.90
40	Ag	26	DC	N3-C4-C5	-5.40	119.74	121.90
66	BB	25	DA	C5-C6-N6	-5.40	119.38	123.70
70	BF	32	DA	C5-C6-N6	-5.40	119.38	123.70
76	BL	48	DA	C5-C6-N6	-5.40	119.38	123.70
77	BM	1	DA	C5-C6-N6	-5.40	119.38	123.70
81	BQ	26	DC	N3-C4-C5	-5.40	119.74	121.90
83	BS	26	DC	N3-C4-N4	5.40	121.78	118.00
86	BV	28	DA	C5-C6-N6	-5.40	119.38	123.70
109	Bs	11	DG	O4'-C1'-C2'	-5.40	101.58	105.90
110	C0	35	DC	N3-C4-C5	-5.40	119.74	121.90
115	C5	14	DA	C5-C6-N6	-5.40	119.38	123.70
120	CC	23	DC	N3-C4-N4	5.40	121.78	118.00
136	CS	32	DA	C5-C6-N6	-5.40	119.38	123.70
152	Cp	30	DC	N3-C4-N4	5.40	121.78	118.00
160	Cx	42	DA	C5-C6-N6	-5.40	119.38	123.70
1	AA	325	DC	N3-C4-N4	5.40	121.78	118.00
1	AA	1502	DA	C5-C6-N6	-5.40	119.38	123.70
1	AA	1804	DA	C5-C6-N6	-5.40	119.38	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3218	DC	N3-C4-N4	5.40	121.78	118.00
1	AA	3526	DA	C5-C6-N1	-5.40	115.00	117.70
1	AA	3862	DC	N3-C4-N4	5.40	121.78	118.00
1	AA	6876	DA	C5-C6-N6	-5.40	119.38	123.70
1	AA	6986	DT	O4'-C1'-C2'	-5.40	101.58	105.90
1	AA	7044	DT	O4'-C1'-N1	5.40	111.78	108.00
4	A2	43	DA	C5-C6-N1	-5.40	115.00	117.70
12	AC	28	DA	C5-C6-N1	-5.40	115.00	117.70
19	AJ	27	DC	N3-C4-C5	-5.40	119.74	121.90
59	B3	43	DA	C5-C6-N1	-5.40	115.00	117.70
63	B7	41	DC	N3-C4-C5	-5.40	119.74	121.90
64	B8	31	DC	N3-C4-C5	-5.40	119.74	121.90
77	BM	37	DA	C5-C6-N6	-5.40	119.38	123.70
93	Bc	4	DA	C5-C6-N6	-5.40	119.38	123.70
93	Bc	45	DA	C5-C6-N6	-5.40	119.38	123.70
95	Be	40	DC	N3-C4-N4	5.40	121.78	118.00
149	Cg	34	DA	C5-C6-N6	-5.40	119.38	123.70
153	Cq	23	DA	C5-C6-N6	-5.40	119.38	123.70
1	AA	134	DA	C5-C6-N6	-5.40	119.38	123.70
1	AA	561	DC	N3-C4-C5	-5.40	119.74	121.90
1	AA	702	DA	C5-C6-N6	-5.40	119.38	123.70
1	AA	708	DA	C4-C5-C6	5.40	119.70	117.00
1	AA	721	DC	N3-C4-N4	5.40	121.78	118.00
1	AA	1202	DA	C5-C6-N6	-5.40	119.38	123.70
1	AA	4296	DC	N3-C4-C5	-5.40	119.74	121.90
1	AA	4652	DA	C5-C6-N6	-5.40	119.38	123.70
1	AA	5057	DA	C5-C6-N6	-5.40	119.38	123.70
1	AA	5819	DC	N3-C4-N4	5.40	121.78	118.00
1	AA	5941	DA	C4-C5-C6	5.40	119.70	117.00
3	A1	23	DA	C5-C6-N1	-5.40	115.00	117.70
7	A5	23	DA	C5-C6-N1	-5.40	115.00	117.70
30	AU	44	DA	C5-C6-N1	-5.40	115.00	117.70
53	Ax	5	DC	N3-C4-C5	-5.40	119.74	121.90
54	Ay	28	DA	C5-C6-N6	-5.40	119.38	123.70
58	B2	6	DA	O4'-C1'-N9	5.40	111.78	108.00
60	B4	34	DC	N3-C4-N4	5.40	121.78	118.00
61	B5	1	DA	C5-C6-N1	-5.40	115.00	117.70
65	B9	27	DG	P-O3'-C3'	5.40	126.18	119.70
86	BV	28	DA	O4'-C1'-C2'	-5.40	101.58	105.90
93	Bc	22	DA	C5-C6-N1	-5.40	115.00	117.70
119	CB	25	DC	N3-C4-N4	5.40	121.78	118.00
142	CY	8	DA	C5-C6-N1	-5.40	115.00	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
147	Ce	24	DA	C5-C6-N6	-5.40	119.38	123.70
154	Cr	4	DA	C5-C6-N6	-5.40	119.38	123.70
160	Cx	7	DA	C5-C6-N6	-5.40	119.38	123.70
1	AA	988	DA	C5-C6-N6	-5.40	119.38	123.70
1	AA	4492	DA	C5-C6-N1	-5.40	115.00	117.70
1	AA	5637	DA	C5-C6-N1	-5.40	115.00	117.70
1	AA	7150	DA	C4-C5-C6	5.40	119.70	117.00
14	AE	46	DA	C5-C6-N6	-5.40	119.38	123.70
29	AT	1	DA	C5-C6-N6	-5.40	119.38	123.70
57	B1	12	DA	C5-C6-N6	-5.40	119.38	123.70
60	B4	34	DC	N3-C4-C5	-5.40	119.74	121.90
67	BC	6	DA	C5-C6-N6	-5.40	119.38	123.70
68	BD	12	DA	C5-C6-N6	-5.40	119.38	123.70
127	CJ	57	DA	C5-C6-N6	-5.40	119.38	123.70
147	Ce	22	DA	C5-C6-N1	-5.40	115.00	117.70
155	Cs	12	DA	C5-C6-N1	-5.40	115.00	117.70
1	AA	907	DC	N3-C4-N4	5.39	121.78	118.00
1	AA	1038	DA	C5-C6-N6	-5.39	119.38	123.70
1	AA	1156	DC	N3-C4-C5	-5.39	119.74	121.90
1	AA	1168	DA	C5-C6-N6	-5.39	119.38	123.70
1	AA	1179	DC	N3-C4-N4	5.39	121.78	118.00
1	AA	1418	DA	P-O3'-C3'	5.39	126.17	119.70
1	AA	1623	DA	C4-C5-C6	5.39	119.70	117.00
1	AA	1755	DA	C5-C6-N6	-5.39	119.38	123.70
1	AA	1951	DA	P-O3'-C3'	5.39	126.17	119.70
1	AA	2476	DA	C5-C6-N1	-5.39	115.00	117.70
1	AA	2718	DA	C4-C5-C6	5.39	119.70	117.00
1	AA	2780	DC	N3-C4-N4	5.39	121.78	118.00
1	AA	2844	DC	N3-C4-N4	5.39	121.78	118.00
1	AA	3262	DA	P-O3'-C3'	5.39	126.17	119.70
1	AA	3366	DG	C3'-C2'-C1'	-5.39	96.03	102.50
1	AA	4613	DC	N3-C4-C5	-5.39	119.74	121.90
1	AA	4800	DA	C5-C6-N1	-5.39	115.00	117.70
1	AA	6199	DA	C5-C6-N6	-5.39	119.38	123.70
1	AA	6553	DC	N3-C4-C5	-5.39	119.74	121.90
4	A2	31	DA	C4-C5-C6	5.39	119.70	117.00
14	AE	41	DA	C5-C6-N6	-5.39	119.39	123.70
32	AW	17	DT	O4'-C1'-N1	5.39	111.78	108.00
61	B5	2	DA	C5-C6-N6	-5.39	119.38	123.70
67	BC	10	DA	C5-C6-N6	-5.39	119.38	123.70
88	BX	42	DA	C5-C6-N6	-5.39	119.38	123.70
90	BZ	38	DA	C5-C6-N1	-5.39	115.00	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
98	Bh	21	DC	N3-C4-N4	5.39	121.78	118.00
103	Bm	38	DT	P-O3'-C3'	5.39	126.17	119.70
126	CI	20	DC	P-O3'-C3'	5.39	126.17	119.70
1	AA	252	DA	C5-C6-N6	-5.39	119.39	123.70
1	AA	344	DG	O4'-C1'-C2'	-5.39	101.59	105.90
1	AA	1006	DC	O4'-C4'-C3'	-5.39	102.34	104.50
1	AA	1410	DA	C5-C6-N6	-5.39	119.39	123.70
1	AA	2192	DA	C5-C6-N6	-5.39	119.39	123.70
1	AA	2326	DC	N3-C4-N4	5.39	121.78	118.00
1	AA	2487	DC	N3-C4-N4	5.39	121.77	118.00
1	AA	3344	DA	C5-C6-N6	-5.39	119.39	123.70
1	AA	3857	DC	N3-C4-N4	5.39	121.78	118.00
1	AA	3940	DA	C5-C6-N1	-5.39	115.00	117.70
1	AA	4888	DA	C5-C6-N6	-5.39	119.39	123.70
1	AA	5864	DA	C5-C6-N6	-5.39	119.39	123.70
1	AA	6130	DC	N3-C4-N4	5.39	121.78	118.00
1	AA	6676	DC	N3-C4-N4	5.39	121.77	118.00
1	AA	6875	DA	C5-C6-N6	-5.39	119.39	123.70
1	AA	7087	DC	O4'-C1'-C2'	-5.39	101.59	105.90
5	A3	5	DC	O4'-C1'-C2'	-5.39	101.59	105.90
10	A8	23	DA	C5-C6-N6	-5.39	119.39	123.70
11	AB	8	DC	N3-C4-N4	5.39	121.78	118.00
15	AF	18	DA	C5-C6-N1	-5.39	115.00	117.70
17	AH	12	DA	C5-C6-N6	-5.39	119.39	123.70
19	AJ	1	DA	C4-C5-C6	5.39	119.70	117.00
42	Ai	40	DC	O4'-C1'-C2'	-5.39	101.59	105.90
45	Al	38	DA	C5-C6-N1	-5.39	115.00	117.70
69	BE	52	DA	C5-C6-N6	-5.39	119.39	123.70
71	BG	30	DA	C5-C6-N6	-5.39	119.39	123.70
72	BH	24	DC	N3-C4-N4	5.39	121.77	118.00
74	BJ	38	DA	C5-C6-N6	-5.39	119.39	123.70
79	BO	23	DA	C5-C6-N1	-5.39	115.00	117.70
101	Bk	7	DA	C1'-O4'-C4'	-5.39	104.71	110.10
103	Bm	10	DC	N3-C4-C5	-5.39	119.74	121.90
104	Bn	18	DA	C5-C6-N6	-5.39	119.39	123.70
106	Bp	34	DC	N3-C4-N4	5.39	121.77	118.00
141	CX	27	DC	C5-C4-N4	-5.39	116.42	120.20
143	CZ	14	DA	C5-C6-N1	-5.39	115.00	117.70
157	Cu	6	DA	C5-C6-N1	-5.39	115.00	117.70
157	Cu	16	DA	C4-C5-C6	5.39	119.70	117.00
157	Cu	28	DC	N3-C4-N4	5.39	121.78	118.00
1	AA	47	DA	C5-C6-N1	-5.39	115.00	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1994	DC	N3-C4-N4	5.39	121.77	118.00
1	AA	2401	DC	O4'-C1'-N1	5.39	111.77	108.00
1	AA	2703	DA	C5-C6-N1	-5.39	115.00	117.70
1	AA	4139	DC	N3-C4-C5	-5.39	119.74	121.90
1	AA	4192	DC	N3-C4-C5	-5.39	119.74	121.90
1	AA	5207	DC	N3-C4-N4	5.39	121.77	118.00
1	AA	5580	DA	C5-C6-N6	-5.39	119.39	123.70
1	AA	5685	DC	N3-C4-N4	5.39	121.77	118.00
1	AA	5855	DA	C5-C6-N6	-5.39	119.39	123.70
2	A0	3	DA	C5-C6-N6	-5.39	119.39	123.70
21	AL	43	DA	C5-C6-N6	-5.39	119.39	123.70
37	Ac	39	DA	C5-C6-N1	-5.39	115.00	117.70
58	B2	36	DA	C5-C6-N6	-5.39	119.39	123.70
68	BD	30	DA	C5-C6-N1	-5.39	115.00	117.70
90	BZ	36	DC	N3-C4-N4	5.39	121.77	118.00
1	AA	239	DC	N3-C4-C5	-5.39	119.74	121.90
1	AA	348	DA	C5-C6-N1	-5.39	115.00	117.70
1	AA	398	DC	N3-C4-C5	-5.39	119.74	121.90
1	AA	733	DA	C4-C5-C6	5.39	119.69	117.00
1	AA	823	DC	N3-C4-N4	5.39	121.77	118.00
1	AA	838	DC	N3-C4-C5	-5.39	119.74	121.90
1	AA	1146	DC	N3-C4-N4	5.39	121.77	118.00
1	AA	1185	DC	N3-C4-N4	5.39	121.77	118.00
1	AA	1657	DA	C5-C6-N1	-5.39	115.00	117.70
1	AA	1935	DT	O4'-C1'-C2'	-5.39	101.59	105.90
1	AA	3049	DA	C5-C6-N6	-5.39	119.39	123.70
1	AA	3616	DA	C5-C6-N6	-5.39	119.39	123.70
1	AA	5329	DA	P-O3'-C3'	5.39	126.17	119.70
1	AA	6835	DG	P-O3'-C3'	5.39	126.17	119.70
4	A2	50	DC	N3-C4-N4	5.39	121.77	118.00
11	AB	11	DA	C5-C6-N6	-5.39	119.39	123.70
12	AC	13	DA	C5-C6-N6	-5.39	119.39	123.70
12	AC	27	DA	C4-C5-C6	5.39	119.69	117.00
17	AH	20	DC	N3-C4-C5	-5.39	119.75	121.90
89	BY	33	DT	O4'-C4'-C3'	-5.39	102.34	104.50
90	BZ	13	DC	N3-C4-C5	-5.39	119.74	121.90
103	Bm	8	DC	N3-C4-C5	-5.39	119.75	121.90
108	Br	44	DC	N3-C4-C5	-5.39	119.74	121.90
111	C1	6	DA	C5-C6-N6	-5.39	119.39	123.70
113	C3	4	DA	C5-C6-N6	-5.39	119.39	123.70
113	C3	22	DA	C5-C6-N6	-5.39	119.39	123.70
142	CY	20	DA	C5-C6-N6	-5.39	119.39	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
145	Cc	32	DC	N3-C4-C5	-5.39	119.74	121.90
145	Cc	53	DC	N3-C4-C5	-5.39	119.74	121.90
150	Ch	19	DA	C5-C6-N6	-5.39	119.39	123.70
162	Cz	38	DC	N3-C4-C5	-5.39	119.74	121.90
1	AA	81	DC	N3-C4-N4	5.39	121.77	118.00
1	AA	1443	DA	C4-C5-C6	5.39	119.69	117.00
1	AA	1990	DA	C5-C6-N6	-5.39	119.39	123.70
1	AA	2308	DC	O4'-C1'-C2'	-5.39	101.59	105.90
1	AA	2529	DC	N3-C4-N4	5.39	121.77	118.00
1	AA	3443	DC	N3-C4-C5	-5.39	119.75	121.90
1	AA	4173	DC	N3-C4-N4	5.39	121.77	118.00
1	AA	4835	DC	N3-C4-N4	5.39	121.77	118.00
1	AA	6200	DA	C5-C6-N6	-5.39	119.39	123.70
1	AA	6300	DA	C3'-C2'-C1'	-5.39	96.03	102.50
17	AH	38	DC	O4'-C1'-C2'	-5.39	101.59	105.90
22	AM	31	DA	C5-C6-N1	-5.39	115.01	117.70
25	AP	14	DA	C5-C6-N6	-5.39	119.39	123.70
115	C5	41	DC	N3-C4-C5	-5.39	119.75	121.90
154	Cr	37	DC	N3-C4-N4	5.39	121.77	118.00
162	Cz	10	DA	C5-C6-N6	-5.39	119.39	123.70
1	AA	1037	DT	O4'-C1'-C2'	-5.39	101.59	105.90
1	AA	1075	DC	N3-C4-N4	5.39	121.77	118.00
1	AA	2147	DA	C5-C6-N6	-5.39	119.39	123.70
1	AA	2327	DC	N3-C4-C5	-5.39	119.75	121.90
1	AA	2547	DC	N3-C4-C5	-5.39	119.75	121.90
1	AA	2583	DC	N3-C4-N4	5.39	121.77	118.00
1	AA	2719	DA	O4'-C1'-C2'	-5.39	101.59	105.90
1	AA	3307	DA	C5-C6-N1	-5.39	115.01	117.70
1	AA	4790	DA	C5-C6-N1	-5.39	115.01	117.70
1	AA	5263	DA	C5-C6-N1	-5.39	115.01	117.70
1	AA	5478	DC	N3-C4-C5	-5.39	119.75	121.90
1	AA	5938	DC	N3-C4-N4	5.39	121.77	118.00
1	AA	6280	DA	C5-C6-N1	-5.39	115.01	117.70
16	AG	10	DC	N3-C4-N4	5.39	121.77	118.00
22	AM	31	DA	C4-C5-C6	5.39	119.69	117.00
24	AO	2	DA	C5-C6-N6	-5.39	119.39	123.70
26	AQ	53	DC	N3-C4-N4	5.39	121.77	118.00
38	Ad	24	DC	P-O5'-C5'	-5.39	112.28	120.90
39	Af	32	DA	C5-C6-N6	-5.39	119.39	123.70
49	As	28	DA	C4-C5-C6	5.39	119.69	117.00
63	B7	31	DC	N3-C4-N4	5.39	121.77	118.00
88	BX	34	DA	C5-C6-N6	-5.39	119.39	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
90	BZ	37	DC	N3-C4-C5	-5.39	119.75	121.90
94	Bd	31	DC	N3-C4-N4	5.39	121.77	118.00
102	Bl	18	DC	N3-C4-N4	5.39	121.77	118.00
103	Bm	2	DA	C5-C6-N6	-5.39	119.39	123.70
105	Bo	17	DC	N3-C4-N4	5.39	121.77	118.00
108	Br	38	DA	C5-C6-N1	-5.39	115.01	117.70
115	C5	26	DA	C5-C6-N6	-5.39	119.39	123.70
122	CE	39	DC	N3-C4-N4	5.39	121.77	118.00
129	CL	1	DA	C4-C5-C6	5.39	119.69	117.00
139	CV	47	DC	N3-C4-N4	5.39	121.77	118.00
140	CW	34	DA	C5-C6-N1	-5.39	115.01	117.70
160	Cx	2	DA	C5-C6-N1	-5.39	115.01	117.70
1	AA	86	DC	N3-C4-C5	-5.38	119.75	121.90
1	AA	277	DC	N3-C4-C5	-5.38	119.75	121.90
1	AA	522	DC	N3-C4-C5	-5.38	119.75	121.90
1	AA	948	DG	P-O3'-C3'	5.38	126.16	119.70
1	AA	1402	DA	C4-C5-C6	5.38	119.69	117.00
1	AA	2403	DC	N3-C4-C5	-5.38	119.75	121.90
1	AA	2554	DC	N3-C4-C5	-5.38	119.75	121.90
1	AA	2816	DA	C4-C5-C6	5.38	119.69	117.00
1	AA	4954	DA	C4-C5-C6	5.38	119.69	117.00
1	AA	4995	DA	C5-C6-N6	-5.38	119.39	123.70
1	AA	5026	DC	N3-C4-N4	5.38	121.77	118.00
1	AA	5670	DA	C5-C6-N6	-5.38	119.39	123.70
1	AA	5958	DT	O4'-C1'-N1	5.38	111.77	108.00
1	AA	6775	DA	C5-C6-N6	-5.38	119.39	123.70
1	AA	7004	DG	C1'-O4'-C4'	-5.38	104.72	110.10
17	AH	30	DC	O4'-C1'-C2'	-5.38	101.59	105.90
17	AH	47	DA	C5-C6-N6	-5.38	119.39	123.70
33	AX	9	DA	C5-C6-N6	-5.38	119.39	123.70
49	As	25	DA	C5-C6-N6	-5.38	119.39	123.70
49	As	36	DA	C5-C6-N6	-5.38	119.39	123.70
66	BB	16	DC	N3-C4-C5	-5.38	119.75	121.90
86	BV	20	DC	N3-C4-N4	5.38	121.77	118.00
92	Bb	15	DA	C5-C6-N6	-5.38	119.39	123.70
100	Bj	3	DC	N3-C4-C5	-5.38	119.75	121.90
107	Bq	40	DA	C5-C6-N6	-5.38	119.39	123.70
120	CC	34	DC	N3-C4-C5	-5.38	119.75	121.90
134	CQ	2	DA	O4'-C1'-N9	5.38	111.77	108.00
161	Cy	60	DC	N3-C4-N4	5.38	121.77	118.00
1	AA	2848	DA	C5-C6-N6	-5.38	119.39	123.70
1	AA	3220	DA	C5-C6-N6	-5.38	119.39	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3510	DA	C5-C6-N1	-5.38	115.01	117.70
1	AA	3782	DA	C5-C6-N1	-5.38	115.01	117.70
1	AA	6109	DC	N3-C4-C5	-5.38	119.75	121.90
1	AA	6915	DA	C5-C6-N6	-5.38	119.39	123.70
1	AA	6918	DC	N3-C4-C5	-5.38	119.75	121.90
13	AD	31	DC	N3-C4-C5	-5.38	119.75	121.90
56	B0	46	DC	N3-C4-C5	-5.38	119.75	121.90
113	C3	16	DA	C5-C6-N1	-5.38	115.01	117.70
119	CB	8	DA	C5-C6-N6	-5.38	119.39	123.70
133	CP	11	DA	C4-C5-C6	5.38	119.69	117.00
139	CV	5	DC	N3-C4-N4	5.38	121.77	118.00
146	Cd	20	DA	C5-C6-N6	-5.38	119.39	123.70
152	Cp	16	DA	C5-C6-N6	-5.38	119.39	123.70
1	AA	739	DA	C5-C6-N1	-5.38	115.01	117.70
1	AA	1069	DA	C4-C5-C6	5.38	119.69	117.00
1	AA	1676	DC	N3-C4-C5	-5.38	119.75	121.90
1	AA	2312	DA	C5-C6-N6	-5.38	119.39	123.70
1	AA	2398	DC	C1'-O4'-C4'	-5.38	104.72	110.10
1	AA	3042	DC	N3-C4-C5	-5.38	119.75	121.90
1	AA	3651	DA	C4-C5-C6	5.38	119.69	117.00
1	AA	3717	DC	O4'-C1'-C2'	-5.38	101.59	105.90
1	AA	3758	DA	C5-C6-N1	-5.38	115.01	117.70
1	AA	4169	DC	N3-C4-N4	5.38	121.77	118.00
1	AA	4773	DA	C5-C6-N6	-5.38	119.39	123.70
1	AA	5554	DC	N3-C4-N4	5.38	121.77	118.00
1	AA	6249	DA	C5-C6-N1	-5.38	115.01	117.70
13	AD	26	DC	N3-C4-C5	-5.38	119.75	121.90
21	AL	4	DA	C4-C5-C6	5.38	119.69	117.00
22	AM	38	DC	N3-C4-C5	-5.38	119.75	121.90
27	AR	42	DA	C5-C6-N1	-5.38	115.01	117.70
27	AR	53	DC	N3-C4-N4	5.38	121.77	118.00
43	Aj	22	DA	C5-C6-N6	-5.38	119.39	123.70
45	Al	15	DA	C5-C6-N1	-5.38	115.01	117.70
49	As	1	DA	C4-C5-C6	5.38	119.69	117.00
66	BB	9	DC	N3-C4-C5	-5.38	119.75	121.90
73	BI	15	DA	C4-C5-C6	5.38	119.69	117.00
78	BN	22	DC	N3-C4-N4	5.38	121.77	118.00
86	BV	24	DA	C5-C6-N6	-5.38	119.39	123.70
92	Bb	15	DA	C5-C6-N1	-5.38	115.01	117.70
101	Bk	31	DA	C5-C6-N6	-5.38	119.39	123.70
120	CC	24	DA	C4-C5-C6	5.38	119.69	117.00
141	CX	2	DC	N3-C4-N4	5.38	121.77	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	293	DC	N3-C4-C5	-5.38	119.75	121.90
1	AA	604	DC	N3-C4-N4	5.38	121.77	118.00
1	AA	3774	DC	N3-C4-N4	5.38	121.77	118.00
1	AA	3787	DC	N3-C4-N4	5.38	121.77	118.00
1	AA	4213	DC	N3-C4-C5	-5.38	119.75	121.90
1	AA	4809	DA	C5-C6-N6	-5.38	119.40	123.70
1	AA	6924	DA	C5-C6-N1	-5.38	115.01	117.70
3	A1	40	DA	C5-C6-N6	-5.38	119.40	123.70
4	A2	27	DA	C5-C6-N1	-5.38	115.01	117.70
36	Ab	32	DC	P-O5'-C5'	-5.38	112.29	120.90
79	BO	23	DA	C5-C6-N6	-5.38	119.40	123.70
113	C3	3	DC	N3-C4-N4	5.38	121.77	118.00
116	C6	40	DC	N3-C4-N4	5.38	121.77	118.00
129	CL	16	DA	C5-C6-N1	-5.38	115.01	117.70
133	CP	18	DC	C4'-C3'-C2'	-5.38	98.26	103.10
159	Cw	38	DC	P-O3'-C3'	5.38	126.16	119.70
1	AA	88	DA	C5-C6-N1	-5.38	115.01	117.70
1	AA	298	DC	N3-C4-C5	-5.38	119.75	121.90
1	AA	305	DC	N3-C4-C5	-5.38	119.75	121.90
1	AA	363	DC	N3-C4-C5	-5.38	119.75	121.90
1	AA	574	DA	C5-C6-N6	-5.38	119.40	123.70
1	AA	720	DC	N3-C4-C5	-5.38	119.75	121.90
1	AA	1582	DA	C5-C6-N1	-5.38	115.01	117.70
1	AA	1992	DA	C5-C6-N6	-5.38	119.40	123.70
1	AA	2181	DC	N3-C4-N4	5.38	121.77	118.00
1	AA	3292	DA	C4-C5-C6	5.38	119.69	117.00
1	AA	3664	DC	N3-C4-N4	5.38	121.77	118.00
1	AA	3803	DC	O4'-C1'-C2'	-5.38	101.60	105.90
1	AA	4543	DC	N3-C4-C5	-5.38	119.75	121.90
1	AA	4677	DA	C5-C6-N6	-5.38	119.40	123.70
1	AA	5264	DA	C5-C6-N6	-5.38	119.40	123.70
1	AA	5405	DC	N3-C4-C5	-5.38	119.75	121.90
19	AJ	18	DA	C5-C6-N1	-5.38	115.01	117.70
19	AJ	41	DA	C5-C6-N6	-5.38	119.40	123.70
21	AL	33	DC	N3-C4-N4	5.38	121.76	118.00
22	AM	42	DC	N3-C4-N4	5.38	121.77	118.00
27	AR	9	DC	N3-C4-N4	5.38	121.77	118.00
37	Ac	40	DA	C5-C6-N6	-5.38	119.40	123.70
37	Ac	60	DC	N3-C4-N4	5.38	121.77	118.00
40	Ag	10	DG	P-O3'-C3'	5.38	126.15	119.70
46	Am	28	DA	C5-C6-N6	-5.38	119.40	123.70
65	B9	21	DA	C5-C6-N6	-5.38	119.40	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
70	BF	40	DA	C5-C6-N6	-5.38	119.40	123.70
73	BI	7	DC	N3-C4-C5	-5.38	119.75	121.90
85	BU	53	DC	O4'-C4'-C3'	-5.38	102.35	104.50
98	Bh	18	DA	C5-C6-N6	-5.38	119.40	123.70
99	Bi	51	DC	N3-C4-N4	5.38	121.76	118.00
105	Bo	67	DA	C5-C6-N6	-5.38	119.40	123.70
109	Bs	16	DA	C5-C6-N1	-5.38	115.01	117.70
115	C5	17	DA	C5-C6-N1	-5.38	115.01	117.70
148	Cf	43	DC	N3-C4-N4	5.38	121.77	118.00
151	Ck	36	DA	C5-C6-N1	-5.38	115.01	117.70
152	Cp	8	DC	N3-C4-N4	5.38	121.77	118.00
1	AA	113	DA	C5-C6-N1	-5.38	115.01	117.70
1	AA	1136	DG	C1'-O4'-C4'	-5.38	104.72	110.10
1	AA	1760	DC	N3-C4-C5	-5.38	119.75	121.90
1	AA	2999	DA	C5-C6-N1	-5.38	115.01	117.70
1	AA	3680	DC	O4'-C1'-C2'	-5.38	101.60	105.90
1	AA	3783	DC	N3-C4-N4	5.38	121.76	118.00
1	AA	4077	DA	C5-C6-N1	-5.38	115.01	117.70
1	AA	4557	DC	N3-C4-C5	-5.38	119.75	121.90
1	AA	4678	DA	C5-C6-N1	-5.38	115.01	117.70
1	AA	4742	DC	N3-C4-N4	5.38	121.76	118.00
1	AA	4950	DA	C4-C5-C6	5.38	119.69	117.00
1	AA	6092	DC	N3-C4-N4	5.38	121.76	118.00
1	AA	6331	DA	C5-C6-N6	-5.38	119.40	123.70
1	AA	6343	DA	C5-C6-N6	-5.38	119.40	123.70
1	AA	6736	DC	N3-C4-C5	-5.38	119.75	121.90
1	AA	6918	DC	O4'-C1'-C2'	-5.38	101.60	105.90
11	AB	38	DC	N3-C4-N4	5.38	121.76	118.00
25	AP	7	DC	N3-C4-N4	5.38	121.76	118.00
29	AT	11	DA	C5-C6-N6	-5.38	119.40	123.70
39	Af	34	DA	C5-C6-N6	-5.38	119.40	123.70
56	B0	27	DC	N3-C4-N4	5.38	121.76	118.00
69	BE	1	DC	N3-C4-N4	5.38	121.76	118.00
105	Bo	12	DC	N3-C4-N4	5.38	121.76	118.00
148	Cf	24	DC	N3-C4-N4	5.38	121.76	118.00
152	Cp	17	DA	C5-C6-N6	-5.38	119.40	123.70
155	Cs	40	DA	C5-C6-N6	-5.38	119.40	123.70
1	AA	2594	DC	N3-C4-C5	-5.38	119.75	121.90
1	AA	2711	DG	O4'-C1'-C2'	-5.38	101.60	105.90
1	AA	2995	DC	O4'-C1'-C2'	-5.38	101.60	105.90
1	AA	4473	DA	C4-C5-C6	5.38	119.69	117.00
1	AA	5293	DA	C5-C6-N1	-5.38	115.01	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5506	DC	N3-C4-C5	-5.38	119.75	121.90
51	Av	30	DG	C4'-C3'-C2'	-5.38	98.26	103.10
96	Bf	11	DC	O4'-C1'-N1	5.38	111.76	108.00
126	CI	1	DA	C4-C5-C6	5.38	119.69	117.00
1	AA	361	DC	N3-C4-C5	-5.37	119.75	121.90
1	AA	1068	DA	C4-C5-C6	5.37	119.69	117.00
1	AA	2266	DC	N3-C4-N4	5.37	121.76	118.00
1	AA	2403	DC	N3-C4-N4	5.37	121.76	118.00
1	AA	2604	DC	N3-C4-N4	5.37	121.76	118.00
1	AA	3236	DC	N3-C4-N4	5.37	121.76	118.00
1	AA	3647	DG	O4'-C4'-C3'	-5.37	102.35	104.50
1	AA	4240	DA	C5-C6-N6	-5.37	119.40	123.70
1	AA	4421	DC	N3-C4-N4	5.37	121.76	118.00
1	AA	4598	DC	N3-C4-N4	5.37	121.76	118.00
1	AA	4676	DA	C5-C6-N1	-5.37	115.01	117.70
1	AA	5270	DC	N3-C4-C5	-5.37	119.75	121.90
1	AA	5565	DG	P-O5'-C5'	-5.37	112.30	120.90
1	AA	6149	DA	C5-C6-N6	-5.37	119.40	123.70
1	AA	6160	DA	C5-C6-N1	-5.37	115.01	117.70
1	AA	6499	DC	N3-C4-C5	-5.37	119.75	121.90
1	AA	6852	DA	C5-C6-N6	-5.37	119.40	123.70
1	AA	6901	DC	N3-C4-N4	5.37	121.76	118.00
14	AE	36	DC	N3-C4-C5	-5.37	119.75	121.90
26	AQ	16	DA	C5-C6-N6	-5.37	119.40	123.70
45	Al	10	DA	C5-C6-N1	-5.37	115.01	117.70
76	BL	46	DC	N3-C4-C5	-5.37	119.75	121.90
101	Bk	62	DC	N3-C4-N4	5.37	121.76	118.00
123	CF	23	DA	C4-C5-C6	5.37	119.69	117.00
124	CG	31	DA	C5-C6-N6	-5.37	119.40	123.70
127	CJ	41	DC	N3-C4-N4	5.37	121.76	118.00
153	Cq	5	DA	C5-C6-N6	-5.37	119.40	123.70
154	Cr	35	DC	N3-C4-C5	-5.37	119.75	121.90
157	Cu	4	DA	C5-C6-N1	-5.37	115.01	117.70
157	Cu	31	DA	C5-C6-N1	-5.37	115.01	117.70
1	AA	193	DA	C5-C6-N1	-5.37	115.02	117.70
1	AA	697	DC	N3-C4-N4	5.37	121.76	118.00
1	AA	1066	DA	C4-C5-C6	5.37	119.69	117.00
1	AA	1573	DA	C5-C6-N1	-5.37	115.01	117.70
1	AA	2336	DA	C5-C6-N6	-5.37	119.40	123.70
1	AA	2671	DA	C4-C5-C6	5.37	119.69	117.00
1	AA	2955	DA	C5-C6-N6	-5.37	119.40	123.70
1	AA	3702	DA	C5-C6-N6	-5.37	119.40	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	4000	DA	C5-C6-N6	-5.37	119.40	123.70
1	AA	4735	DA	C5-C6-N1	-5.37	115.01	117.70
1	AA	5389	DC	N3-C4-N4	5.37	121.76	118.00
1	AA	6182	DA	C5-C6-N6	-5.37	119.40	123.70
16	AG	7	DA	C5-C6-N6	-5.37	119.40	123.70
17	AH	30	DC	O4'-C1'-N1	5.37	111.76	108.00
19	AJ	49	DA	C5-C6-N6	-5.37	119.40	123.70
26	AQ	15	DC	N3-C4-C5	-5.37	119.75	121.90
32	AW	40	DA	C5-C6-N6	-5.37	119.40	123.70
36	Ab	29	DA	C5-C6-N6	-5.37	119.40	123.70
42	Ai	22	DA	C5-C6-N1	-5.37	115.01	117.70
43	Aj	6	DA	O3'-P-O5'	-5.37	93.80	104.00
62	B6	12	DA	C5-C6-N6	-5.37	119.40	123.70
62	B6	31	DA	C5-C6-N6	-5.37	119.40	123.70
71	BG	48	DC	N3-C4-N4	5.37	121.76	118.00
77	BM	16	DA	C5-C6-N6	-5.37	119.40	123.70
78	BN	17	DA	C5-C6-N6	-5.37	119.40	123.70
84	BT	14	DA	C5-C6-N6	-5.37	119.40	123.70
101	Bk	4	DC	N3-C4-C5	-5.37	119.75	121.90
113	C3	43	DC	P-O3'-C3'	5.37	126.15	119.70
117	C7	45	DC	N3-C4-N4	5.37	121.76	118.00
121	CD	41	DA	C5-C6-N1	-5.37	115.01	117.70
140	CW	27	DC	N3-C4-C5	-5.37	119.75	121.90
142	CY	15	DA	C5-C6-N6	-5.37	119.40	123.70
144	Cb	23	DA	C5-C6-N6	-5.37	119.40	123.70
144	Cb	43	DA	C4-C5-C6	5.37	119.69	117.00
1	AA	482	DA	C5-C6-N6	-5.37	119.40	123.70
1	AA	1665	DA	C5-C6-N1	-5.37	115.02	117.70
1	AA	2365	DA	C5-C6-N6	-5.37	119.40	123.70
1	AA	2794	DC	N3-C4-C5	-5.37	119.75	121.90
1	AA	4627	DT	O4'-C1'-N1	5.37	111.76	108.00
1	AA	4757	DC	N3-C4-N4	5.37	121.76	118.00
1	AA	5145	DT	O4'-C1'-N1	5.37	111.76	108.00
27	AR	40	DA	C5-C6-N6	-5.37	119.40	123.70
43	Aj	15	DA	C4-C5-C6	5.37	119.69	117.00
45	Al	48	DA	O4'-C1'-C2'	-5.37	101.60	105.90
57	B1	41	DA	C5-C6-N1	-5.37	115.02	117.70
125	CH	18	DC	N3-C4-C5	-5.37	119.75	121.90
135	CR	1	DA	C5-C6-N6	-5.37	119.40	123.70
1	AA	709	DA	C5-C6-N1	-5.37	115.02	117.70
1	AA	817	DC	N3-C4-C5	-5.37	119.75	121.90
1	AA	1032	DA	C5-C6-N1	-5.37	115.02	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1554	DA	C4-C5-C6	5.37	119.68	117.00
1	AA	1558	DC	N3-C4-C5	-5.37	119.75	121.90
1	AA	2068	DA	C5-C6-N6	-5.37	119.40	123.70
1	AA	2107	DC	O4'-C1'-C2'	-5.37	101.61	105.90
1	AA	2230	DC	N3-C4-N4	5.37	121.76	118.00
1	AA	3941	DC	N3-C4-N4	5.37	121.76	118.00
1	AA	4161	DA	C5-C6-N1	-5.37	115.02	117.70
1	AA	4539	DA	C5-C6-N6	-5.37	119.41	123.70
1	AA	4812	DA	C5-C6-N1	-5.37	115.02	117.70
1	AA	5937	DA	C5-C6-N1	-5.37	115.02	117.70
1	AA	5995	DC	N3-C4-C5	-5.37	119.75	121.90
1	AA	7177	DA	C5-C6-N1	-5.37	115.02	117.70
6	A4	48	DA	C5-C6-N1	-5.37	115.02	117.70
17	AH	12	DA	C5-C6-N1	-5.37	115.02	117.70
18	AI	3	DA	C5-C6-N1	-5.37	115.02	117.70
29	AT	29	DC	N3-C4-N4	5.37	121.76	118.00
43	Aj	22	DA	P-O5'-C5'	-5.37	112.31	120.90
55	Az	40	DG	P-O3'-C3'	5.37	126.14	119.70
70	BF	29	DA	C5-C6-N6	-5.37	119.41	123.70
100	Bj	37	DA	C5-C6-N6	-5.37	119.40	123.70
108	Br	41	DA	C5-C6-N1	-5.37	115.02	117.70
111	C1	43	DC	N3-C4-N4	5.37	121.76	118.00
133	CP	16	DA	C5-C6-N6	-5.37	119.41	123.70
133	CP	22	DA	C5-C6-N6	-5.37	119.41	123.70
138	CU	23	DA	C5-C6-N6	-5.37	119.41	123.70
1	AA	169	DA	C5-C6-N6	-5.37	119.41	123.70
1	AA	616	DC	N3-C4-C5	-5.37	119.75	121.90
1	AA	5160	DA	C4-C5-C6	5.37	119.68	117.00
1	AA	5903	DC	N3-C4-C5	-5.37	119.75	121.90
1	AA	6439	DA	C1'-O4'-C4'	-5.37	104.73	110.10
1	AA	6496	DG	P-O3'-C3'	5.37	126.14	119.70
13	AD	6	DC	N3-C4-N4	5.37	121.76	118.00
16	AG	11	DC	N3-C4-C5	-5.37	119.75	121.90
28	AS	29	DC	N3-C4-C5	-5.37	119.75	121.90
38	Ad	30	DA	C4-C5-C6	5.37	119.68	117.00
53	Ax	46	DC	N3-C4-N4	5.37	121.76	118.00
63	B7	7	DC	N3-C4-C5	-5.37	119.75	121.90
79	BO	39	DC	N3-C4-C5	-5.37	119.75	121.90
95	Be	16	DC	N3-C4-N4	5.37	121.76	118.00
105	Bo	15	DT	O4'-C1'-C2'	-5.37	101.61	105.90
111	C1	6	DA	C5-C6-N1	-5.37	115.02	117.70
134	CQ	3	DC	N3-C4-C5	-5.37	119.75	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
134	CQ	32	DA	C5-C6-N1	-5.37	115.02	117.70
135	CR	7	DC	N3-C4-N4	5.37	121.76	118.00
141	CX	13	DC	N3-C4-C5	-5.37	119.75	121.90
149	Cg	37	DG	P-O3'-C3'	5.37	126.14	119.70
150	Ch	37	DA	C5-C6-N1	-5.37	115.02	117.70
1	AA	42	DC	N3-C4-C5	-5.37	119.75	121.90
1	AA	590	DA	C5-C6-N6	-5.37	119.41	123.70
1	AA	796	DC	N3-C4-C5	-5.37	119.75	121.90
1	AA	1074	DC	O4'-C1'-C2'	-5.37	101.61	105.90
1	AA	3487	DC	N3-C4-C5	-5.37	119.75	121.90
1	AA	3987	DC	N3-C4-N4	5.37	121.76	118.00
1	AA	4520	DA	C4-C5-C6	5.37	119.68	117.00
1	AA	4600	DC	O4'-C1'-N1	5.37	111.76	108.00
1	AA	5544	DA	C5-C6-N1	-5.37	115.02	117.70
1	AA	5638	DA	C5-C6-N1	-5.37	115.02	117.70
1	AA	7137	DC	N3-C4-C5	-5.37	119.75	121.90
4	A2	5	DC	N3-C4-N4	5.37	121.76	118.00
20	AK	36	DC	O4'-C1'-C2'	-5.37	101.61	105.90
36	Ab	24	DC	N3-C4-C5	-5.37	119.75	121.90
42	Ai	17	DC	N3-C4-N4	5.37	121.75	118.00
50	Au	21	DC	N3-C4-N4	5.37	121.76	118.00
63	B7	39	DA	C5-C6-N6	-5.37	119.41	123.70
77	BM	40	DC	N3-C4-C5	-5.37	119.75	121.90
86	BV	13	DA	C5-C6-N6	-5.37	119.41	123.70
89	BY	25	DC	N3-C4-C5	-5.37	119.75	121.90
93	Bc	50	DG	O4'-C1'-C2'	-5.37	101.61	105.90
113	C3	16	DA	C5-C6-N6	-5.37	119.41	123.70
119	CB	51	DC	N3-C4-N4	5.37	121.75	118.00
121	CD	47	DA	C4-C5-C6	5.37	119.68	117.00
130	CM	27	DC	N3-C4-N4	5.37	121.76	118.00
133	CP	11	DA	C5-C6-N1	-5.37	115.02	117.70
140	CW	26	DA	P-O3'-C3'	5.37	126.14	119.70
147	Ce	8	DC	N3-C4-C5	-5.37	119.75	121.90
155	Cs	43	DA	C5-C6-N6	-5.37	119.41	123.70
159	Cw	42	DA	C5-C6-N1	-5.37	115.02	117.70
159	Cw	43	DA	C5-C6-N1	-5.37	115.02	117.70
160	Cx	15	DC	N3-C4-N4	5.37	121.76	118.00
1	AA	1235	DA	C4-C5-C6	5.36	119.68	117.00
1	AA	1250	DC	N3-C4-C5	-5.36	119.75	121.90
1	AA	1606	DA	C5-C6-N1	-5.36	115.02	117.70
1	AA	1642	DC	N3-C4-N4	5.36	121.75	118.00
1	AA	1663	DA	C5-C6-N1	-5.36	115.02	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2313	DC	N3-C4-C5	-5.36	119.75	121.90
1	AA	2490	DG	P-O3'-C3'	5.36	126.14	119.70
1	AA	2557	DC	N3-C4-C5	-5.36	119.75	121.90
1	AA	2896	DC	N3-C4-N4	5.36	121.75	118.00
1	AA	3622	DC	N3-C4-N4	5.36	121.75	118.00
1	AA	3664	DC	N3-C4-C5	-5.36	119.75	121.90
1	AA	4411	DC	N3-C4-C5	-5.36	119.75	121.90
1	AA	4792	DC	N3-C4-N4	5.36	121.75	118.00
1	AA	7002	DA	C5-C6-N1	-5.36	115.02	117.70
1	AA	7015	DC	N3-C4-C5	-5.36	119.75	121.90
1	AA	7137	DC	O4'-C1'-C2'	-5.36	101.61	105.90
5	A3	38	DC	N3-C4-N4	5.36	121.75	118.00
7	A5	11	DA	C5-C6-N6	-5.36	119.41	123.70
19	AJ	45	DC	N3-C4-N4	5.36	121.75	118.00
20	AK	3	DA	C5-C6-N6	-5.36	119.41	123.70
35	AZ	9	DA	C5-C6-N6	-5.36	119.41	123.70
37	Ac	52	DG	O4'-C1'-N9	5.36	111.75	108.00
43	Aj	51	DA	C4-C5-C6	5.36	119.68	117.00
71	BG	5	DC	N3-C4-N4	5.36	121.75	118.00
74	BJ	28	DC	N3-C4-N4	5.36	121.75	118.00
85	BU	9	DC	N3-C4-C5	-5.36	119.75	121.90
88	BX	39	DG	P-O3'-C3'	5.36	126.14	119.70
104	Bn	48	DC	N3-C4-N4	5.36	121.75	118.00
105	Bo	24	DG	P-O3'-C3'	5.36	126.14	119.70
115	C5	8	DC	N3-C4-N4	5.36	121.75	118.00
129	CL	1	DA	C5-C6-N6	-5.36	119.41	123.70
145	Cc	22	DA	C5-C6-N6	-5.36	119.41	123.70
1	AA	1436	DC	N3-C4-C5	-5.36	119.75	121.90
1	AA	1686	DC	N3-C4-N4	5.36	121.75	118.00
1	AA	2437	DC	N3-C4-N4	5.36	121.75	118.00
1	AA	3537	DC	O4'-C1'-N1	5.36	111.75	108.00
1	AA	3900	DG	P-O3'-C3'	5.36	126.13	119.70
1	AA	7008	DC	N3-C4-N4	5.36	121.75	118.00
2	A0	34	DA	C5-C6-N1	-5.36	115.02	117.70
23	AN	30	DC	N3-C4-N4	5.36	121.75	118.00
25	AP	12	DC	N3-C4-N4	5.36	121.75	118.00
29	AT	24	DC	O4'-C1'-N1	5.36	111.75	108.00
42	Ai	38	DC	N3-C4-N4	5.36	121.75	118.00
58	B2	31	DC	N3-C4-N4	5.36	121.75	118.00
84	BT	50	DC	O4'-C1'-N1	5.36	111.75	108.00
87	BW	51	DA	C5-C6-N1	-5.36	115.02	117.70
115	C5	62	DC	N3-C4-C5	-5.36	119.75	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
128	CK	1	DC	O4'-C1'-C2'	-5.36	101.61	105.90
128	CK	27	DA	C5-C6-N1	-5.36	115.02	117.70
1	AA	139	DC	N3-C4-N4	5.36	121.75	118.00
1	AA	193	DA	P-O3'-C3'	5.36	126.13	119.70
1	AA	385	DC	N3-C4-C5	-5.36	119.76	121.90
1	AA	617	DC	N3-C4-N4	5.36	121.75	118.00
1	AA	698	DC	N3-C4-C5	-5.36	119.76	121.90
1	AA	1142	DC	N3-C4-N4	5.36	121.75	118.00
1	AA	1492	DT	O4'-C1'-C2'	-5.36	101.61	105.90
1	AA	1760	DC	N3-C4-N4	5.36	121.75	118.00
1	AA	1948	DC	N3-C4-C5	-5.36	119.76	121.90
1	AA	2479	DA	C5-C6-N6	-5.36	119.41	123.70
1	AA	4962	DC	N3-C4-N4	5.36	121.75	118.00
1	AA	5283	DC	N3-C4-N4	5.36	121.75	118.00
1	AA	5885	DA	C5-C6-N1	-5.36	115.02	117.70
1	AA	6241	DA	C5-C6-N6	-5.36	119.41	123.70
1	AA	6773	DC	N3-C4-N4	5.36	121.75	118.00
1	AA	6893	DC	N3-C4-N4	5.36	121.75	118.00
1	AA	6911	DC	N3-C4-C5	-5.36	119.76	121.90
1	AA	7146	DC	N3-C4-N4	5.36	121.75	118.00
6	A4	3	DA	C5-C6-N6	-5.36	119.41	123.70
43	Aj	6	DA	C5-C6-N6	-5.36	119.41	123.70
43	Aj	49	DA	C4-C5-C6	5.36	119.68	117.00
47	An	5	DC	N3-C4-C5	-5.36	119.76	121.90
54	Ay	28	DA	C5-C6-N1	-5.36	115.02	117.70
59	B3	10	DA	C5-C6-N6	-5.36	119.41	123.70
69	BE	64	DC	N3-C4-C5	-5.36	119.76	121.90
71	BG	48	DC	N3-C4-C5	-5.36	119.75	121.90
77	BM	42	DA	OP1-P-O3'	5.36	116.99	105.20
81	BQ	38	DC	N3-C4-N4	5.36	121.75	118.00
91	Ba	24	DC	N3-C4-C5	-5.36	119.76	121.90
98	Bh	48	DA	C5-C6-N6	-5.36	119.41	123.70
121	CD	42	DA	C5-C6-N6	-5.36	119.41	123.70
125	CH	31	DA	C5-C6-N1	-5.36	115.02	117.70
158	Cv	34	DA	P-O3'-C3'	5.36	126.13	119.70
1	AA	19	DC	N3-C4-N4	5.36	121.75	118.00
1	AA	81	DC	N3-C4-C5	-5.36	119.76	121.90
1	AA	162	DC	N3-C4-C5	-5.36	119.76	121.90
1	AA	1499	DA	C5-C6-N6	-5.36	119.41	123.70
1	AA	2324	DA	C5-C6-N1	-5.36	115.02	117.70
1	AA	3560	DT	O4'-C1'-C2'	-5.36	101.61	105.90
1	AA	4704	DA	O4'-C1'-N9	5.36	111.75	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6215	DC	N3-C4-N4	5.36	121.75	118.00
1	AA	6797	DC	N3-C4-N4	5.36	121.75	118.00
7	A5	41	DA	C5-C6-N6	-5.36	119.41	123.70
46	Am	34	DA	C5-C6-N1	-5.36	115.02	117.70
54	Ay	38	DA	C5-C6-N6	-5.36	119.41	123.70
56	B0	35	DA	C5-C6-N6	-5.36	119.41	123.70
62	B6	1	DG	O4'-C1'-N9	5.36	111.75	108.00
78	BN	45	DC	P-O3'-C3'	5.36	126.13	119.70
97	Bg	20	DC	N3-C4-N4	5.36	121.75	118.00
106	Bp	6	DC	N3-C4-C5	-5.36	119.76	121.90
134	CQ	29	DA	C4-C5-C6	5.36	119.68	117.00
158	Cv	17	DA	C5-C6-N6	-5.36	119.41	123.70
1	AA	234	DC	N3-C4-C5	-5.36	119.76	121.90
1	AA	491	DA	C5-C6-N1	-5.36	115.02	117.70
1	AA	757	DG	O4'-C4'-C3'	-5.36	102.36	104.50
1	AA	1220	DC	N3-C4-N4	5.36	121.75	118.00
1	AA	1403	DA	C1'-O4'-C4'	-5.36	104.74	110.10
1	AA	1452	DC	N3-C4-N4	5.36	121.75	118.00
1	AA	1991	DA	C5-C6-N6	-5.36	119.41	123.70
1	AA	2576	DC	N3-C4-N4	5.36	121.75	118.00
1	AA	3042	DC	N3-C4-N4	5.36	121.75	118.00
1	AA	4399	DA	O4'-C1'-C2'	-5.36	101.61	105.90
1	AA	5655	DA	C5-C6-N1	-5.36	115.02	117.70
1	AA	5881	DC	N3-C4-C5	-5.36	119.76	121.90
1	AA	6122	DA	C5-C6-N1	-5.36	115.02	117.70
1	AA	6183	DA	C5-C6-N1	-5.36	115.02	117.70
1	AA	7154	DC	N3-C4-N4	5.36	121.75	118.00
6	A4	1	DA	C5-C6-N1	-5.36	115.02	117.70
8	A6	41	DA	C5-C6-N1	-5.36	115.02	117.70
20	AK	38	DC	O4'-C1'-N1	5.36	111.75	108.00
21	AL	15	DT	O4'-C1'-N1	5.36	111.75	108.00
70	BF	35	DA	C4-C5-C6	5.36	119.68	117.00
76	BL	39	DC	N3-C4-C5	-5.36	119.76	121.90
87	BW	35	DC	N3-C4-N4	5.36	121.75	118.00
112	C2	53	DA	C5-C6-N6	-5.36	119.41	123.70
115	C5	44	DA	C5-C6-N6	-5.36	119.41	123.70
120	CC	2	DC	N3-C4-N4	5.36	121.75	118.00
143	CZ	37	DC	N3-C4-C5	-5.36	119.76	121.90
154	Cr	11	DA	C5-C6-N6	-5.36	119.41	123.70
154	Cr	31	DA	C5-C6-N6	-5.36	119.41	123.70
161	Cy	19	DA	C5-C6-N1	-5.36	115.02	117.70
162	Cz	23	DA	C5-C6-N6	-5.36	119.41	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	318	DC	N3-C4-C5	-5.36	119.76	121.90
1	AA	570	DT	O4'-C1'-N1	5.36	111.75	108.00
1	AA	574	DA	C5-C6-N1	-5.36	115.02	117.70
1	AA	885	DC	N3-C4-N4	5.36	121.75	118.00
1	AA	1531	DA	C5-C6-N6	-5.36	119.42	123.70
1	AA	1594	DG	P-O3'-C3'	5.36	126.13	119.70
1	AA	1645	DA	C5-C6-N6	-5.36	119.42	123.70
1	AA	2090	DC	N3-C4-N4	5.36	121.75	118.00
1	AA	2426	DC	N3-C4-C5	-5.36	119.76	121.90
1	AA	2675	DC	N3-C4-C5	-5.36	119.76	121.90
1	AA	3053	DA	C5-C6-N6	-5.36	119.42	123.70
1	AA	3267	DA	C5-C6-N1	-5.36	115.02	117.70
1	AA	3941	DC	O4'-C1'-C2'	-5.36	101.62	105.90
1	AA	4234	DA	C5-C6-N6	-5.36	119.42	123.70
1	AA	4426	DA	C4-C5-C6	5.36	119.68	117.00
1	AA	4675	DA	C1'-O4'-C4'	-5.36	104.75	110.10
1	AA	4731	DG	O4'-C4'-C3'	-5.36	102.36	104.50
1	AA	5296	DC	N3-C4-C5	-5.36	119.76	121.90
1	AA	5645	DA	C5-C6-N6	-5.36	119.42	123.70
1	AA	6227	DC	N3-C4-C5	-5.36	119.76	121.90
1	AA	6269	DA	C4-C5-C6	5.36	119.68	117.00
1	AA	6864	DC	O4'-C1'-N1	5.36	111.75	108.00
1	AA	6950	DC	N3-C4-N4	5.36	121.75	118.00
1	AA	7015	DC	N3-C4-N4	5.36	121.75	118.00
41	Ah	38	DA	C5-C6-N1	-5.36	115.02	117.70
46	Am	33	DA	C5-C6-N6	-5.36	119.42	123.70
50	Au	3	DC	N3-C4-C5	-5.36	119.76	121.90
52	Aw	39	DA	C5-C6-N1	-5.36	115.02	117.70
57	B1	7	DA	C5-C6-N1	-5.36	115.02	117.70
64	B8	28	DC	N3-C4-C5	-5.36	119.76	121.90
65	B9	41	DC	N3-C4-N4	5.36	121.75	118.00
65	B9	50	DC	N3-C4-N4	5.36	121.75	118.00
69	BE	66	DA	C5-C6-N1	-5.36	115.02	117.70
90	BZ	64	DC	C3'-C2'-C1'	-5.36	96.07	102.50
98	Bh	47	DC	N3-C4-C5	-5.36	119.76	121.90
99	Bi	5	DC	N3-C4-C5	-5.36	119.76	121.90
104	Bn	57	DC	N3-C4-N4	5.36	121.75	118.00
105	Bo	23	DC	N3-C4-N4	5.36	121.75	118.00
108	Br	14	DT	P-O3'-C3'	5.36	126.13	119.70
108	Br	51	DC	N3-C4-N4	5.36	121.75	118.00
111	C1	45	DA	C5-C6-N6	-5.36	119.42	123.70
154	Cr	36	DA	P-O3'-C3'	5.36	126.13	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
156	Ct	26	DA	C5-C6-N1	-5.36	115.02	117.70
1	AA	201	DC	N3-C4-C5	-5.35	119.76	121.90
1	AA	315	DA	C5-C6-N1	-5.35	115.02	117.70
1	AA	1189	DA	C5-C6-N1	-5.35	115.02	117.70
1	AA	1571	DA	O4'-C1'-C2'	-5.35	101.62	105.90
1	AA	3816	DG	O4'-C1'-N9	5.35	111.75	108.00
1	AA	5267	DA	C5-C6-N1	-5.35	115.02	117.70
1	AA	5525	DA	P-O3'-C3'	5.35	126.12	119.70
1	AA	6032	DA	C5-C6-N6	-5.35	119.42	123.70
1	AA	6902	DC	N3-C4-C5	-5.35	119.76	121.90
3	A1	14	DC	N3-C4-N4	5.35	121.75	118.00
8	A6	25	DA	C5-C6-N6	-5.35	119.42	123.70
45	Al	46	DA	C5-C6-N6	-5.35	119.42	123.70
72	BH	38	DC	N3-C4-N4	5.35	121.75	118.00
91	Ba	42	DC	N3-C4-C5	-5.35	119.76	121.90
93	Bc	19	DC	N3-C4-C5	-5.35	119.76	121.90
127	CJ	26	DC	N3-C4-N4	5.35	121.75	118.00
147	Ce	49	DC	N3-C4-N4	5.35	121.75	118.00
1	AA	254	DA	C5-C6-N6	-5.35	119.42	123.70
1	AA	321	DC	N3-C4-C5	-5.35	119.76	121.90
1	AA	1372	DC	N3-C4-N4	5.35	121.75	118.00
1	AA	1984	DC	N3-C4-N4	5.35	121.75	118.00
1	AA	2137	DA	C5-C6-N6	-5.35	119.42	123.70
1	AA	2401	DC	N3-C4-C5	-5.35	119.76	121.90
1	AA	2586	DA	C5-C6-N1	-5.35	115.02	117.70
1	AA	3214	DA	C5-C6-N6	-5.35	119.42	123.70
1	AA	3453	DA	C5-C6-N1	-5.35	115.02	117.70
1	AA	3679	DA	C5-C6-N1	-5.35	115.02	117.70
1	AA	3787	DC	N3-C4-C5	-5.35	119.76	121.90
1	AA	4188	DC	N3-C4-N4	5.35	121.75	118.00
1	AA	4399	DA	C5-C6-N1	-5.35	115.02	117.70
1	AA	4626	DA	C5-C6-N6	-5.35	119.42	123.70
1	AA	4634	DC	N3-C4-C5	-5.35	119.76	121.90
1	AA	4937	DC	C1'-O4'-C4'	-5.35	104.75	110.10
1	AA	5620	DA	C5-C6-N6	-5.35	119.42	123.70
1	AA	5883	DC	N3-C4-N4	5.35	121.75	118.00
1	AA	6092	DC	N3-C4-C5	-5.35	119.76	121.90
1	AA	6122	DA	C5-C6-N6	-5.35	119.42	123.70
1	AA	7046	DA	C5-C6-N6	-5.35	119.42	123.70
1	AA	7163	DC	N3-C4-C5	-5.35	119.76	121.90
1	AA	7190	DC	N3-C4-C5	-5.35	119.76	121.90
6	A4	25	DC	N3-C4-N4	5.35	121.75	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	A5	33	DC	N3-C4-N4	5.35	121.75	118.00
14	AE	29	DA	C5-C6-N6	-5.35	119.42	123.70
20	AK	31	DC	N3-C4-C5	-5.35	119.76	121.90
23	AN	15	DA	C5-C6-N6	-5.35	119.42	123.70
34	AY	38	DA	C5-C6-N6	-5.35	119.42	123.70
35	AZ	41	DA	C5-C6-N6	-5.35	119.42	123.70
37	Ac	36	DA	C5-C6-N6	-5.35	119.42	123.70
38	Ad	32	DA	C5-C6-N1	-5.35	115.02	117.70
46	Am	47	DA	C5-C6-N6	-5.35	119.42	123.70
52	Aw	27	DA	C5-C6-N6	-5.35	119.42	123.70
53	Ax	33	DC	N3-C4-C5	-5.35	119.76	121.90
69	BE	49	DA	C5-C6-N6	-5.35	119.42	123.70
79	BO	4	DA	C5-C6-N1	-5.35	115.02	117.70
85	BU	53	DC	N3-C4-N4	5.35	121.75	118.00
87	BW	36	DC	N3-C4-N4	5.35	121.75	118.00
95	Be	10	DT	P-O3'-C3'	5.35	126.12	119.70
105	Bo	16	DC	O4'-C1'-C2'	-5.35	101.62	105.90
105	Bo	35	DA	C5-C6-N1	-5.35	115.02	117.70
109	Bs	4	DC	N3-C4-N4	5.35	121.75	118.00
119	CB	12	DC	N3-C4-N4	5.35	121.75	118.00
121	CD	44	DA	C4-C5-C6	5.35	119.68	117.00
130	CM	13	DA	C5-C6-N6	-5.35	119.42	123.70
137	CT	27	DA	C4-C5-C6	5.35	119.68	117.00
138	CU	15	DC	N3-C4-N4	5.35	121.75	118.00
143	CZ	37	DC	N3-C4-N4	5.35	121.75	118.00
151	Ck	19	DA	C5-C6-N6	-5.35	119.42	123.70
157	Cu	37	DC	N3-C4-N4	5.35	121.75	118.00
158	Cv	24	DC	N3-C4-C5	-5.35	119.76	121.90
1	AA	84	DC	P-O5'-C5'	-5.35	112.34	120.90
1	AA	1426	DT	O4'-C4'-C3'	-5.35	102.36	104.50
1	AA	1761	DA	C5-C6-N6	-5.35	119.42	123.70
1	AA	3579	DC	N3-C4-C5	-5.35	119.76	121.90
1	AA	4145	DT	O4'-C4'-C3'	-5.35	102.36	104.50
1	AA	4602	DC	O4'-C1'-C2'	-5.35	101.62	105.90
1	AA	5104	DA	C5-C6-N6	-5.35	119.42	123.70
1	AA	7175	DC	N3-C4-C5	-5.35	119.76	121.90
15	AF	22	DT	P-O3'-C3'	5.35	126.12	119.70
41	Ah	31	DA	C4-C5-C6	5.35	119.67	117.00
88	BX	30	DA	C5-C6-N6	-5.35	119.42	123.70
103	Bm	27	DC	N3-C4-N4	5.35	121.75	118.00
106	Bp	20	DC	N3-C4-N4	5.35	121.75	118.00
135	CR	5	DC	N3-C4-C5	-5.35	119.76	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
153	Cq	29	DA	C5-C6-N1	-5.35	115.02	117.70
1	AA	451	DA	C5-C6-N6	-5.35	119.42	123.70
1	AA	1175	DC	N3-C4-N4	5.35	121.74	118.00
1	AA	1743	DA	C5-C6-N6	-5.35	119.42	123.70
1	AA	2812	DC	N3-C4-N4	5.35	121.75	118.00
1	AA	4053	DA	C5-C6-N1	-5.35	115.03	117.70
1	AA	4433	DT	P-O3'-C3'	5.35	126.12	119.70
1	AA	4835	DC	O4'-C1'-C2'	-5.35	101.62	105.90
1	AA	5519	DA	C5-C6-N1	-5.35	115.03	117.70
1	AA	5824	DC	N3-C4-N4	5.35	121.75	118.00
1	AA	6130	DC	N3-C4-C5	-5.35	119.76	121.90
1	AA	6788	DA	C5-C6-N6	-5.35	119.42	123.70
1	AA	6897	DC	N3-C4-C5	-5.35	119.76	121.90
1	AA	6920	DC	N3-C4-N4	5.35	121.75	118.00
1	AA	6938	DT	O4'-C1'-C2'	-5.35	101.62	105.90
1	AA	7174	DC	N3-C4-N4	5.35	121.74	118.00
2	A0	40	DA	C5-C6-N1	-5.35	115.03	117.70
19	AJ	10	DA	C5-C6-N6	-5.35	119.42	123.70
26	AQ	46	DG	O4'-C4'-C3'	-5.35	102.36	104.50
31	AV	36	DA	C5-C6-N6	-5.35	119.42	123.70
45	Al	27	DA	C4-C5-C6	5.35	119.67	117.00
52	Aw	43	DC	N3-C4-C5	-5.35	119.76	121.90
66	BB	29	DA	C5-C6-N1	-5.35	115.03	117.70
82	BR	22	DC	N3-C4-N4	5.35	121.75	118.00
98	Bh	19	DC	N3-C4-N4	5.35	121.74	118.00
113	C3	29	DA	C5-C6-N1	-5.35	115.03	117.70
142	CY	38	DA	C5-C6-N6	-5.35	119.42	123.70
150	Ch	33	DA	C5-C6-N1	-5.35	115.03	117.70
158	Cv	30	DC	N3-C4-C5	-5.35	119.76	121.90
1	AA	174	DA	C5-C6-N6	-5.35	119.42	123.70
1	AA	182	DC	N3-C4-C5	-5.35	119.76	121.90
1	AA	1640	DC	N3-C4-N4	5.35	121.74	118.00
1	AA	1840	DC	O4'-C1'-N1	5.35	111.74	108.00
1	AA	2448	DC	N3-C4-C5	-5.35	119.76	121.90
1	AA	3670	DC	N3-C4-C5	-5.35	119.76	121.90
1	AA	4567	DC	P-O3'-C3'	5.35	126.12	119.70
1	AA	5660	DC	N3-C4-N4	5.35	121.74	118.00
1	AA	5854	DC	N3-C4-C5	-5.35	119.76	121.90
1	AA	6137	DT	P-O3'-C3'	5.35	126.12	119.70
1	AA	6501	DA	C5-C6-N6	-5.35	119.42	123.70
1	AA	6559	DC	N3-C4-N4	5.35	121.74	118.00
1	AA	7049	DC	N3-C4-N4	5.35	121.74	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A1	38	DA	C5-C6-N6	-5.35	119.42	123.70
42	Ai	44	DA	C5-C6-N6	-5.35	119.42	123.70
45	Al	3	DA	C5-C6-N6	-5.35	119.42	123.70
60	B4	30	DC	N3-C4-N4	5.35	121.74	118.00
62	B6	9	DA	P-O3'-C3'	5.35	126.12	119.70
87	BW	15	DC	N3-C4-N4	5.35	121.74	118.00
89	BY	36	DA	C5-C6-N6	-5.35	119.42	123.70
95	Be	11	DC	N3-C4-N4	5.35	121.74	118.00
105	Bo	44	DA	C5-C6-N1	-5.35	115.03	117.70
115	C5	43	DA	C5-C6-N1	-5.35	115.03	117.70
119	CB	43	DA	C5-C6-N1	-5.35	115.03	117.70
138	CU	9	DC	N3-C4-N4	5.35	121.74	118.00
1	AA	388	DA	C5-C6-N1	-5.35	115.03	117.70
1	AA	729	DC	N3-C4-C5	-5.35	119.76	121.90
1	AA	1953	DT	P-O3'-C3'	5.35	126.11	119.70
1	AA	2057	DA	C5-C6-N6	-5.35	119.42	123.70
1	AA	2563	DA	C5-C6-N6	-5.35	119.42	123.70
1	AA	5371	DA	C5-C6-N6	-5.35	119.42	123.70
1	AA	6368	DC	C1'-O4'-C4'	-5.35	104.75	110.10
1	AA	6748	DA	C5-C6-N6	-5.35	119.42	123.70
1	AA	6924	DA	C5-C6-N6	-5.35	119.42	123.70
11	AB	36	DA	C5-C6-N6	-5.35	119.42	123.70
78	BN	18	DC	N3-C4-N4	5.35	121.74	118.00
121	CD	45	DA	C5-C6-N6	-5.35	119.42	123.70
161	Cy	57	DC	N3-C4-C5	-5.35	119.76	121.90
1	AA	140	DC	N3-C4-N4	5.34	121.74	118.00
1	AA	231	DT	O4'-C1'-C2'	-5.34	101.62	105.90
1	AA	235	DC	N3-C4-C5	-5.34	119.76	121.90
1	AA	236	DC	N3-C4-N4	5.34	121.74	118.00
1	AA	736	DA	C5-C6-N1	-5.34	115.03	117.70
1	AA	1931	DA	C5-C6-N6	-5.34	119.42	123.70
1	AA	2833	DC	O4'-C1'-C2'	-5.34	101.62	105.90
1	AA	3272	DC	N3-C4-C5	-5.34	119.76	121.90
1	AA	3514	DC	N3-C4-N4	5.34	121.74	118.00
1	AA	3966	DA	C5-C6-N6	-5.34	119.42	123.70
1	AA	4923	DC	N3-C4-N4	5.34	121.74	118.00
1	AA	5226	DA	C4-C5-C6	5.34	119.67	117.00
1	AA	5680	DA	C5-C6-N6	-5.34	119.42	123.70
1	AA	5843	DG	C1'-O4'-C4'	-5.34	104.76	110.10
1	AA	5941	DA	C5-C6-N6	-5.34	119.42	123.70
1	AA	6294	DC	C1'-O4'-C4'	-5.34	104.76	110.10
1	AA	6629	DC	N3-C4-N4	5.34	121.74	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	7043	DG	P-O3'-C3'	5.34	126.11	119.70
1	AA	7117	DC	N3-C4-C5	-5.34	119.76	121.90
1	AA	7152	DA	C5-C6-N1	-5.34	115.03	117.70
11	AB	8	DC	N3-C4-C5	-5.34	119.76	121.90
11	AB	34	DA	C5-C6-N6	-5.34	119.42	123.70
22	AM	28	DA	C5-C6-N6	-5.34	119.42	123.70
25	AP	7	DC	N3-C4-C5	-5.34	119.76	121.90
27	AR	42	DA	C5-C6-N6	-5.34	119.42	123.70
32	AW	39	DC	N3-C4-N4	5.34	121.74	118.00
34	AY	41	DC	O4'-C1'-C2'	-5.34	101.62	105.90
35	AZ	45	DA	C5-C6-N6	-5.34	119.42	123.70
61	B5	39	DA	C5-C6-N6	-5.34	119.42	123.70
68	BD	23	DC	N3-C4-C5	-5.34	119.76	121.90
74	BJ	39	DC	N3-C4-C5	-5.34	119.76	121.90
74	BJ	49	DA	C5-C6-N6	-5.34	119.42	123.70
94	Bd	25	DG	P-O3'-C3'	5.34	126.11	119.70
100	Bj	12	DC	N3-C4-N4	5.34	121.74	118.00
103	Bm	3	DC	N3-C4-C5	-5.34	119.76	121.90
106	Bp	2	DA	C5-C6-N1	-5.34	115.03	117.70
109	Bs	4	DC	N3-C4-C5	-5.34	119.76	121.90
118	C8	40	DA	C4-C5-C6	5.34	119.67	117.00
127	CJ	43	DC	N3-C4-N4	5.34	121.74	118.00
129	CL	27	DA	C4-C5-C6	5.34	119.67	117.00
130	CM	22	DC	N3-C4-C5	-5.34	119.76	121.90
142	CY	29	DA	C5-C6-N1	-5.34	115.03	117.70
157	Cu	28	DC	N3-C4-C5	-5.34	119.76	121.90
162	Cz	22	DC	N3-C4-N4	5.34	121.74	118.00
1	AA	674	DC	N3-C4-C5	-5.34	119.76	121.90
1	AA	1135	DC	N3-C4-C5	-5.34	119.76	121.90
1	AA	1186	DC	N3-C4-N4	5.34	121.74	118.00
1	AA	1300	DC	N3-C4-N4	5.34	121.74	118.00
1	AA	2555	DC	N3-C4-N4	5.34	121.74	118.00
1	AA	3346	DA	C4-C5-C6	5.34	119.67	117.00
1	AA	6011	DA	C5-C6-N6	-5.34	119.43	123.70
1	AA	7194	DA	C5-C6-N6	-5.34	119.43	123.70
18	AI	32	DC	O4'-C1'-N1	5.34	111.74	108.00
22	AM	43	DC	N3-C4-C5	-5.34	119.76	121.90
56	B0	19	DC	N3-C4-N4	5.34	121.74	118.00
93	Bc	21	DC	N3-C4-N4	5.34	121.74	118.00
157	Cu	14	DA	C1'-O4'-C4'	-5.34	104.76	110.10
1	AA	111	DA	C5-C6-N1	-5.34	115.03	117.70
1	AA	487	DC	N3-C4-C5	-5.34	119.76	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1523	DC	N3-C4-C5	-5.34	119.76	121.90
1	AA	3692	DC	N3-C4-N4	5.34	121.74	118.00
1	AA	3774	DC	N3-C4-C5	-5.34	119.76	121.90
1	AA	3791	DC	N3-C4-N4	5.34	121.74	118.00
1	AA	4077	DA	C5-C6-N6	-5.34	119.43	123.70
1	AA	4836	DC	N3-C4-C5	-5.34	119.76	121.90
1	AA	4842	DC	N3-C4-N4	5.34	121.74	118.00
1	AA	5581	DC	N3-C4-N4	5.34	121.74	118.00
1	AA	5733	DA	P-O5'-C5'	5.34	129.45	120.90
1	AA	6158	DC	N3-C4-C5	-5.34	119.76	121.90
1	AA	6208	DA	C5-C6-N6	-5.34	119.43	123.70
1	AA	6707	DC	N3-C4-N4	5.34	121.74	118.00
1	AA	7078	DC	N3-C4-C5	-5.34	119.76	121.90
15	AF	3	DC	N3-C4-C5	-5.34	119.76	121.90
28	AS	6	DC	N3-C4-C5	-5.34	119.76	121.90
50	Au	46	DA	C5-C6-N1	-5.34	115.03	117.70
52	Aw	40	DA	C5-C6-N6	-5.34	119.43	123.70
54	Ay	30	DA	C5-C6-N6	-5.34	119.43	123.70
66	BB	16	DC	N3-C4-N4	5.34	121.74	118.00
72	BH	29	DC	P-O3'-C3'	5.34	126.11	119.70
83	BS	15	DC	N3-C4-N4	5.34	121.74	118.00
95	Be	19	DA	C5-C6-N1	-5.34	115.03	117.70
96	Bf	15	DC	N3-C4-N4	5.34	121.74	118.00
107	Bq	4	DC	N3-C4-C5	-5.34	119.76	121.90
114	C4	17	DA	C5-C6-N6	-5.34	119.43	123.70
114	C4	49	DC	N3-C4-N4	5.34	121.74	118.00
138	CU	16	DC	N3-C4-C5	-5.34	119.76	121.90
139	CV	29	DC	N3-C4-C5	-5.34	119.76	121.90
142	CY	26	DA	C4-C5-C6	5.34	119.67	117.00
143	CZ	13	DA	C5-C6-N6	-5.34	119.43	123.70
154	Cr	30	DA	C5-C6-N6	-5.34	119.43	123.70
1	AA	26	DC	N3-C4-N4	5.34	121.74	118.00
1	AA	147	DC	N3-C4-N4	5.34	121.74	118.00
1	AA	657	DA	C5-C6-N1	-5.34	115.03	117.70
1	AA	751	DA	P-O3'-C3'	5.34	126.11	119.70
1	AA	1316	DC	N3-C4-N4	5.34	121.74	118.00
1	AA	1433	DC	N3-C4-N4	5.34	121.74	118.00
1	AA	2087	DC	O4'-C4'-C3'	-5.34	102.36	104.50
1	AA	2181	DC	N3-C4-C5	-5.34	119.76	121.90
1	AA	2737	DA	C5-C6-N1	-5.34	115.03	117.70
1	AA	2971	DT	O4'-C1'-N1	5.34	111.74	108.00
1	AA	3176	DA	C5-C6-N6	-5.34	119.43	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3762	DC	N3-C4-C5	-5.34	119.77	121.90
1	AA	3872	DC	N3-C4-N4	5.34	121.74	118.00
1	AA	4373	DC	N3-C4-N4	5.34	121.74	118.00
1	AA	4905	DG	C1'-O4'-C4'	-5.34	104.76	110.10
1	AA	5357	DC	N3-C4-N4	5.34	121.74	118.00
1	AA	5879	DC	N3-C4-C5	-5.34	119.76	121.90
1	AA	6300	DA	C5-C6-N6	-5.34	119.43	123.70
1	AA	6760	DA	C4-C5-C6	5.34	119.67	117.00
1	AA	6886	DC	N3-C4-C5	-5.34	119.76	121.90
1	AA	7202	DC	N3-C4-N4	5.34	121.74	118.00
4	A2	13	DA	C5-C6-N1	-5.34	115.03	117.70
11	AB	21	DC	N3-C4-C5	-5.34	119.76	121.90
22	AM	46	DC	N3-C4-N4	5.34	121.74	118.00
26	AQ	33	DC	N3-C4-N4	5.34	121.74	118.00
33	AX	22	DC	N3-C4-N4	5.34	121.74	118.00
35	AZ	27	DC	N3-C4-C5	-5.34	119.76	121.90
35	AZ	41	DA	C5-C6-N1	-5.34	115.03	117.70
40	Ag	42	DA	C5-C6-N6	-5.34	119.43	123.70
41	Ah	28	DC	O4'-C1'-C2'	-5.34	101.63	105.90
41	Ah	42	DA	C5-C6-N6	-5.34	119.43	123.70
43	Aj	20	DA	C4-C5-C6	5.34	119.67	117.00
61	B5	11	DC	N3-C4-N4	5.34	121.74	118.00
71	BG	3	DA	C5-C6-N1	-5.34	115.03	117.70
74	BJ	31	DA	C4-C5-C6	5.34	119.67	117.00
85	BU	9	DC	O4'-C1'-C2'	-5.34	101.63	105.90
94	Bd	21	DA	C5-C6-N1	-5.34	115.03	117.70
102	Bl	33	DC	N3-C4-C5	-5.34	119.76	121.90
105	Bo	31	DG	P-O3'-C3'	5.34	126.11	119.70
114	C4	10	DA	C5-C6-N1	-5.34	115.03	117.70
122	CE	22	DG	O4'-C1'-N9	5.34	111.74	108.00
126	CI	4	DC	N3-C4-C5	-5.34	119.76	121.90
127	CJ	56	DA	C5-C6-N6	-5.34	119.43	123.70
147	Ce	48	DA	C5-C6-N6	-5.34	119.43	123.70
161	Cy	49	DA	C5-C6-N6	-5.34	119.43	123.70
1	AA	402	DC	N3-C4-C5	-5.34	119.77	121.90
1	AA	513	DC	N3-C4-N4	5.34	121.74	118.00
1	AA	543	DA	C5-C6-N1	-5.34	115.03	117.70
1	AA	706	DC	N3-C4-C5	-5.34	119.77	121.90
1	AA	720	DC	N3-C4-N4	5.34	121.74	118.00
1	AA	2082	DC	N3-C4-C5	-5.34	119.77	121.90
1	AA	4790	DA	C5-C6-N6	-5.34	119.43	123.70
1	AA	6545	DC	N3-C4-N4	5.34	121.74	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6578	DA	C5-C6-N6	-5.34	119.43	123.70
3	A1	19	DA	C5-C6-N6	-5.34	119.43	123.70
7	A5	10	DC	N3-C4-C5	-5.34	119.77	121.90
49	As	14	DA	C4-C5-C6	5.34	119.67	117.00
53	Ax	10	DT	O4'-C4'-C3'	-5.34	102.36	104.50
116	C6	43	DC	N3-C4-C5	-5.34	119.77	121.90
162	Cz	27	DA	C5-C6-N1	-5.34	115.03	117.70
1	AA	268	DC	N3-C4-C5	-5.34	119.77	121.90
1	AA	307	DA	C5-C6-N1	-5.34	115.03	117.70
1	AA	565	DC	N3-C4-C5	-5.34	119.77	121.90
1	AA	842	DA	C5-C6-N1	-5.34	115.03	117.70
1	AA	1008	DA	C4-C5-C6	5.34	119.67	117.00
1	AA	1235	DA	C5-C6-N6	-5.34	119.43	123.70
1	AA	2096	DC	N3-C4-N4	5.34	121.74	118.00
1	AA	2390	DC	N3-C4-N4	5.34	121.74	118.00
1	AA	4039	DC	N3-C4-N4	5.34	121.74	118.00
1	AA	5171	DA	C5-C6-N1	-5.34	115.03	117.70
1	AA	6234	DC	N3-C4-C5	-5.34	119.77	121.90
1	AA	6294	DC	N3-C4-C5	-5.34	119.77	121.90
1	AA	6657	DA	C5-C6-N1	-5.34	115.03	117.70
1	AA	6678	DA	C5-C6-N1	-5.34	115.03	117.70
24	AO	24	DC	N3-C4-C5	-5.34	119.77	121.90
28	AS	44	DA	C5-C6-N1	-5.34	115.03	117.70
34	AY	7	DG	P-O3'-C3'	5.34	126.10	119.70
40	Ag	42	DA	C5-C6-N1	-5.34	115.03	117.70
43	Aj	2	DC	N3-C4-N4	5.34	121.74	118.00
53	Ax	37	DA	C5-C6-N1	-5.34	115.03	117.70
60	B4	36	DA	C5-C6-N1	-5.34	115.03	117.70
61	B5	17	DC	N3-C4-C5	-5.34	119.77	121.90
63	B7	18	DC	N3-C4-N4	5.34	121.74	118.00
65	B9	6	DA	P-O3'-C3'	5.34	126.10	119.70
68	BD	32	DA	C5-C6-N6	-5.34	119.43	123.70
97	Bg	6	DA	C5-C6-N6	-5.34	119.43	123.70
101	Bk	28	DC	N3-C4-N4	5.34	121.74	118.00
112	C2	11	DC	N3-C4-C5	-5.34	119.77	121.90
119	CB	35	DA	C5-C6-N6	-5.34	119.43	123.70
135	CR	3	DC	N3-C4-C5	-5.34	119.77	121.90
136	CS	34	DA	C5-C6-N6	-5.34	119.43	123.70
159	Cw	4	DC	N3-C4-N4	5.34	121.74	118.00
1	AA	137	DC	N3-C4-N4	5.33	121.73	118.00
1	AA	1770	DC	N3-C4-C5	-5.33	119.77	121.90
1	AA	2042	DA	C5-C6-N1	-5.33	115.03	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2769	DC	N3-C4-C5	-5.33	119.77	121.90
1	AA	2796	DC	N3-C4-N4	5.33	121.73	118.00
1	AA	3251	DC	N3-C4-C5	-5.33	119.77	121.90
1	AA	5013	DA	C4-C5-C6	5.33	119.67	117.00
1	AA	5248	DA	O4'-C1'-N9	5.33	111.73	108.00
1	AA	5295	DA	C4-C5-C6	5.33	119.67	117.00
1	AA	5891	DA	C5-C6-N6	-5.33	119.43	123.70
3	A1	23	DA	C5-C6-N6	-5.33	119.43	123.70
47	An	15	DA	C5-C6-N1	-5.33	115.03	117.70
66	BB	2	DC	P-O3'-C3'	5.33	126.10	119.70
80	BP	6	DA	C5-C6-N6	-5.33	119.43	123.70
86	BV	11	DC	N3-C4-N4	5.33	121.73	118.00
90	BZ	13	DC	N3-C4-N4	5.33	121.73	118.00
91	Ba	28	DC	N3-C4-N4	5.33	121.73	118.00
91	Ba	34	DT	P-O3'-C3'	5.33	126.10	119.70
105	Bo	6	DA	C5-C6-N6	-5.33	119.43	123.70
1	AA	57	DC	N3-C4-C5	-5.33	119.77	121.90
1	AA	75	DA	C5-C6-N6	-5.33	119.43	123.70
1	AA	176	DC	N3-C4-N4	5.33	121.73	118.00
1	AA	193	DA	C5-C6-N6	-5.33	119.43	123.70
1	AA	235	DC	N3-C4-N4	5.33	121.73	118.00
1	AA	277	DC	N3-C4-N4	5.33	121.73	118.00
1	AA	1093	DT	O4'-C4'-C3'	-5.33	102.37	104.50
1	AA	1204	DC	N3-C4-C5	-5.33	119.77	121.90
1	AA	1625	DC	N3-C4-C5	-5.33	119.77	121.90
1	AA	2767	DG	O4'-C1'-C2'	-5.33	101.63	105.90
1	AA	4007	DA	C5-C6-N6	-5.33	119.43	123.70
1	AA	4161	DA	C5-C6-N6	-5.33	119.43	123.70
1	AA	5702	DA	C5-C6-N1	-5.33	115.03	117.70
1	AA	5851	DA	C5-C6-N6	-5.33	119.43	123.70
1	AA	6215	DC	N3-C4-C5	-5.33	119.77	121.90
1	AA	6276	DA	C5-C6-N6	-5.33	119.43	123.70
1	AA	6821	DC	N3-C4-C5	-5.33	119.77	121.90
1	AA	7209	DA	C5-C6-N6	-5.33	119.43	123.70
6	A4	40	DC	N3-C4-N4	5.33	121.73	118.00
20	AK	2	DC	N3-C4-N4	5.33	121.73	118.00
40	Ag	25	DA	C5-C6-N6	-5.33	119.43	123.70
71	BG	49	DT	O4'-C4'-C3'	-5.33	102.37	104.50
86	BV	15	DC	N3-C4-C5	-5.33	119.77	121.90
89	BY	35	DT	P-O5'-C5'	-5.33	112.37	120.90
93	Bc	26	DC	N3-C4-N4	5.33	121.73	118.00
99	Bi	22	DC	P-O3'-C3'	-5.33	113.30	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
99	Bi	56	DA	C5-C6-N1	-5.33	115.03	117.70
101	Bk	46	DC	N3-C4-N4	5.33	121.73	118.00
117	C7	18	DC	N3-C4-C5	-5.33	119.77	121.90
125	CH	34	DA	C5-C6-N6	-5.33	119.43	123.70
129	CL	36	DC	N3-C4-N4	5.33	121.73	118.00
133	CP	22	DA	C5-C6-N1	-5.33	115.03	117.70
138	CU	24	DA	C5-C6-N6	-5.33	119.43	123.70
154	Cr	12	DA	O4'-C1'-N9	5.33	111.73	108.00
160	Cx	6	DC	N3-C4-C5	-5.33	119.77	121.90
1	AA	289	DC	N3-C4-C5	-5.33	119.77	121.90
1	AA	681	DC	N3-C4-C5	-5.33	119.77	121.90
1	AA	884	DA	C5-C6-N6	-5.33	119.44	123.70
1	AA	896	DA	C5-C6-N1	-5.33	115.03	117.70
1	AA	1206	DC	N3-C4-C5	-5.33	119.77	121.90
1	AA	1329	DA	C5-C6-N1	-5.33	115.03	117.70
1	AA	1403	DA	O4'-C4'-C3'	-5.33	102.37	104.50
1	AA	1536	DA	C5-C6-N1	-5.33	115.03	117.70
1	AA	2346	DA	C5-C6-N6	-5.33	119.44	123.70
1	AA	2593	DA	C5-C6-N1	-5.33	115.03	117.70
1	AA	2991	DC	N3-C4-N4	5.33	121.73	118.00
1	AA	3045	DA	C5-C6-N1	-5.33	115.03	117.70
1	AA	3217	DA	C5-C6-N6	-5.33	119.44	123.70
1	AA	4070	DC	N3-C4-C5	-5.33	119.77	121.90
1	AA	4125	DG	O3'-P-O5'	5.33	114.13	104.00
1	AA	4258	DG	P-O3'-C3'	5.33	126.10	119.70
1	AA	4742	DC	N3-C4-C5	-5.33	119.77	121.90
1	AA	5331	DC	O4'-C1'-N1	5.33	111.73	108.00
1	AA	5509	DA	C5-C6-N6	-5.33	119.43	123.70
1	AA	5511	DA	C5-C6-N6	-5.33	119.44	123.70
1	AA	5675	DA	C5-C6-N1	-5.33	115.03	117.70
1	AA	5722	DA	C4-C5-C6	5.33	119.67	117.00
2	A0	2	DC	N3-C4-N4	5.33	121.73	118.00
17	AH	35	DC	N3-C4-C5	-5.33	119.77	121.90
21	AL	5	DA	C5-C6-N1	-5.33	115.03	117.70
26	AQ	2	DC	N3-C4-N4	5.33	121.73	118.00
35	AZ	54	DC	O4'-C1'-N1	5.33	111.73	108.00
40	Ag	1	DA	C5-C6-N1	-5.33	115.03	117.70
40	Ag	11	DG	P-O3'-C3'	5.33	126.10	119.70
41	Ah	2	DA	C4-C5-C6	5.33	119.67	117.00
51	Av	18	DC	N3-C4-C5	-5.33	119.77	121.90
71	BG	12	DC	N3-C4-N4	5.33	121.73	118.00
74	BJ	39	DC	N3-C4-N4	5.33	121.73	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
78	BN	42	DC	O4'-C1'-C2'	-5.33	101.64	105.90
80	BP	25	DC	N3-C4-C5	-5.33	119.77	121.90
84	BT	50	DC	N3-C4-N4	5.33	121.73	118.00
92	Bb	38	DA	C5-C6-N1	-5.33	115.03	117.70
101	Bk	3	DC	N3-C4-N4	5.33	121.73	118.00
101	Bk	58	DA	C5-C6-N1	-5.33	115.03	117.70
107	Bq	21	DC	N3-C4-C5	-5.33	119.77	121.90
125	CH	7	DC	N3-C4-N4	5.33	121.73	118.00
146	Cd	26	DA	C5-C6-N6	-5.33	119.44	123.70
156	Ct	24	DA	C4-C5-C6	5.33	119.67	117.00
1	AA	148	DA	C5-C6-N1	-5.33	115.03	117.70
1	AA	342	DC	N3-C4-N4	5.33	121.73	118.00
1	AA	643	DC	N3-C4-N4	5.33	121.73	118.00
1	AA	1711	DC	N3-C4-N4	5.33	121.73	118.00
1	AA	3152	DA	C5-C6-N1	-5.33	115.03	117.70
1	AA	3193	DC	O4'-C1'-C2'	-5.33	101.64	105.90
1	AA	3665	DA	C5-C6-N1	-5.33	115.03	117.70
17	AH	23	DC	N3-C4-N4	5.33	121.73	118.00
23	AN	48	DC	N3-C4-C5	-5.33	119.77	121.90
66	BB	6	DA	C5-C6-N1	-5.33	115.03	117.70
89	BY	17	DA	C5-C6-N6	-5.33	119.44	123.70
92	Bb	18	DA	C5-C6-N1	-5.33	115.03	117.70
100	Bj	16	DC	N3-C4-C5	-5.33	119.77	121.90
126	CI	33	DC	N3-C4-C5	-5.33	119.77	121.90
154	Cr	37	DC	O4'-C1'-N1	5.33	111.73	108.00
1	AA	540	DG	C3'-C2'-C1'	-5.33	96.11	102.50
1	AA	803	DA	O4'-C1'-C2'	-5.33	101.64	105.90
1	AA	884	DA	C5-C6-N1	-5.33	115.03	117.70
1	AA	1011	DA	C5-C6-N6	-5.33	119.44	123.70
1	AA	1261	DC	N3-C4-N4	5.33	121.73	118.00
1	AA	1478	DC	N3-C4-C5	-5.33	119.77	121.90
1	AA	2482	DC	N3-C4-N4	5.33	121.73	118.00
1	AA	2908	DA	C5-C6-N6	-5.33	119.44	123.70
1	AA	3313	DC	N3-C4-C5	-5.33	119.77	121.90
1	AA	3994	DA	C5-C6-N1	-5.33	115.03	117.70
1	AA	4067	DC	N3-C4-N4	5.33	121.73	118.00
1	AA	4157	DA	C5-C6-N6	-5.33	119.44	123.70
1	AA	4753	DC	N3-C4-N4	5.33	121.73	118.00
1	AA	7079	DC	P-O3'-C3'	5.33	126.09	119.70
7	A5	26	DA	C5-C6-N1	-5.33	115.04	117.70
9	A7	38	DC	N3-C4-C5	-5.33	119.77	121.90
16	AG	28	DA	C5-C6-N6	-5.33	119.44	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	AN	48	DC	N3-C4-N4	5.33	121.73	118.00
25	AP	1	DA	C5-C6-N1	-5.33	115.03	117.70
36	Ab	45	DA	C5-C6-N1	-5.33	115.04	117.70
54	Ay	7	DC	N3-C4-N4	5.33	121.73	118.00
61	B5	21	DA	C5-C6-N6	-5.33	119.44	123.70
62	B6	35	DA	C5-C6-N6	-5.33	119.44	123.70
71	BG	10	DA	C5-C6-N6	-5.33	119.44	123.70
84	BT	41	DC	N3-C4-C5	-5.33	119.77	121.90
97	Bg	13	DA	P-O3'-C3'	5.33	126.09	119.70
102	Bl	37	DC	N3-C4-C5	-5.33	119.77	121.90
120	CC	23	DC	O4'-C1'-N1	5.33	111.73	108.00
125	CH	42	DC	N3-C4-C5	-5.33	119.77	121.90
133	CP	14	DC	N3-C4-N4	5.33	121.73	118.00
140	CW	16	DA	C5-C6-N6	-5.33	119.44	123.70
153	Cq	24	DA	C5-C6-N1	-5.33	115.04	117.70
1	AA	75	DA	C5-C6-N1	-5.33	115.04	117.70
1	AA	159	DC	N3-C4-N4	5.33	121.73	118.00
1	AA	2230	DC	N3-C4-C5	-5.33	119.77	121.90
1	AA	4138	DA	C5-C6-N1	-5.33	115.04	117.70
1	AA	4309	DC	N3-C4-N4	5.33	121.73	118.00
1	AA	5008	DA	C5-C6-N6	-5.33	119.44	123.70
1	AA	6200	DA	C5-C6-N1	-5.33	115.04	117.70
8	A6	24	DA	C5-C6-N1	-5.33	115.04	117.70
11	AB	20	DC	N3-C4-N4	5.33	121.73	118.00
28	AS	57	DA	C5-C6-N6	-5.33	119.44	123.70
54	Ay	8	DC	N3-C4-N4	5.33	121.73	118.00
120	CC	41	DA	C5-C6-N6	-5.33	119.44	123.70
133	CP	12	DA	C5-C6-N6	-5.33	119.44	123.70
157	Cu	53	DA	C5-C6-N6	-5.33	119.44	123.70
157	Cu	58	DC	N3-C4-N4	5.33	121.73	118.00
1	AA	480	DC	N3-C4-C5	-5.33	119.77	121.90
1	AA	682	DC	N3-C4-N4	5.33	121.73	118.00
1	AA	949	DC	N3-C4-C5	-5.33	119.77	121.90
1	AA	1338	DA	C4-C5-C6	5.33	119.66	117.00
1	AA	1613	DC	N3-C4-N4	5.33	121.73	118.00
1	AA	1768	DA	C5-C6-N6	-5.33	119.44	123.70
1	AA	1781	DA	C5-C6-N6	-5.33	119.44	123.70
1	AA	3900	DG	P-O5'-C5'	-5.33	112.38	120.90
1	AA	5896	DA	C4-C5-C6	5.33	119.66	117.00
1	AA	6048	DG	C1'-O4'-C4'	-5.33	104.77	110.10
1	AA	6212	DC	N3-C4-N4	5.33	121.73	118.00
1	AA	6237	DC	N3-C4-N4	5.33	121.73	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6750	DC	N3-C4-N4	5.33	121.73	118.00
1	AA	6913	DA	C5-C6-N6	-5.33	119.44	123.70
2	A0	15	DA	C4-C5-C6	5.33	119.66	117.00
17	AH	36	DC	N3-C4-N4	5.33	121.73	118.00
84	BT	26	DC	N3-C4-N4	5.33	121.73	118.00
92	Bb	25	DC	N3-C4-N4	5.33	121.73	118.00
103	Bm	20	DA	C5-C6-N6	-5.33	119.44	123.70
130	CM	50	DA	C5-C6-N1	-5.33	115.04	117.70
139	CV	24	DA	C5-C6-N6	-5.33	119.44	123.70
154	Cr	36	DA	C5-C6-N6	-5.33	119.44	123.70
161	Cy	15	DA	C5-C6-N6	-5.33	119.44	123.70
1	AA	891	DA	C5-C6-N6	-5.32	119.44	123.70
1	AA	977	DC	N3-C4-C5	-5.32	119.77	121.90
1	AA	1831	DG	O4'-C4'-C3'	-5.32	102.37	104.50
1	AA	2188	DC	N3-C4-C5	-5.32	119.77	121.90
1	AA	2648	DC	O4'-C1'-C2'	-5.32	101.64	105.90
1	AA	2724	DA	C5-C6-N1	-5.32	115.04	117.70
1	AA	2934	DC	N3-C4-C5	-5.32	119.77	121.90
1	AA	3269	DA	C5-C6-N6	-5.32	119.44	123.70
1	AA	3411	DC	N3-C4-C5	-5.32	119.77	121.90
1	AA	4945	DA	C4-C5-C6	5.32	119.66	117.00
1	AA	5667	DC	N3-C4-N4	5.32	121.73	118.00
1	AA	5882	DC	N3-C4-N4	5.32	121.73	118.00
1	AA	6083	DC	N3-C4-C5	-5.32	119.77	121.90
1	AA	7096	DC	N3-C4-C5	-5.32	119.77	121.90
4	A2	39	DA	C4-C5-C6	5.32	119.66	117.00
8	A6	14	DC	N3-C4-C5	-5.32	119.77	121.90
20	AK	22	DA	C4-C5-C6	5.32	119.66	117.00
24	AO	42	DA	C5-C6-N6	-5.32	119.44	123.70
25	AP	1	DA	C5-C6-N6	-5.32	119.44	123.70
28	AS	57	DA	C5-C6-N1	-5.32	115.04	117.70
30	AU	7	DA	C5-C6-N1	-5.32	115.04	117.70
33	AX	20	DG	P-O3'-C3'	5.32	126.09	119.70
45	Al	34	DC	C4'-C3'-C2'	-5.32	98.31	103.10
46	Am	34	DA	C5-C6-N6	-5.32	119.44	123.70
47	An	22	DA	C5-C6-N6	-5.32	119.44	123.70
54	Ay	13	DC	N3-C4-N4	5.32	121.73	118.00
56	B0	22	DC	N3-C4-N4	5.32	121.73	118.00
71	BG	30	DA	C5-C6-N1	-5.32	115.04	117.70
84	BT	7	DC	N3-C4-N4	5.32	121.73	118.00
86	BV	30	DA	C5-C6-N1	-5.32	115.04	117.70
91	Ba	44	DC	N3-C4-C5	-5.32	119.77	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
98	Bh	44	DA	C5-C6-N1	-5.32	115.04	117.70
102	Bl	33	DC	N3-C4-N4	5.32	121.73	118.00
108	Br	12	DC	N3-C4-C5	-5.32	119.77	121.90
133	CP	28	DC	N3-C4-N4	5.32	121.73	118.00
139	CV	6	DG	P-O3'-C3'	5.32	126.09	119.70
149	Cg	13	DA	C5-C6-N1	-5.32	115.04	117.70
157	Cu	31	DA	C5-C6-N6	-5.32	119.44	123.70
1	AA	212	DG	O4'-C1'-N9	5.32	111.73	108.00
1	AA	1788	DA	C5-C6-N6	-5.32	119.44	123.70
1	AA	2543	DC	N3-C4-C5	-5.32	119.77	121.90
1	AA	3458	DC	O4'-C1'-C2'	-5.32	101.64	105.90
1	AA	3887	DC	N3-C4-C5	-5.32	119.77	121.90
1	AA	4605	DC	N3-C4-N4	5.32	121.73	118.00
1	AA	4608	DA	C4-C5-C6	5.32	119.66	117.00
1	AA	4736	DA	C5-C6-N6	-5.32	119.44	123.70
1	AA	6662	DA	P-O3'-C3'	5.32	126.09	119.70
4	A2	50	DC	N3-C4-C5	-5.32	119.77	121.90
9	A7	28	DC	O4'-C1'-N1	5.32	111.73	108.00
25	AP	18	DA	C5-C6-N1	-5.32	115.04	117.70
60	B4	32	DC	N3-C4-N4	5.32	121.72	118.00
80	BP	8	DA	C5-C6-N6	-5.32	119.44	123.70
99	Bi	58	DC	N3-C4-N4	5.32	121.72	118.00
100	Bj	1	DA	C5-C6-N1	-5.32	115.04	117.70
101	Bk	65	DA	C5-C6-N6	-5.32	119.44	123.70
156	Ct	2	DC	O4'-C4'-C3'	-5.32	102.37	104.50
1	AA	8	DC	N3-C4-N4	5.32	121.72	118.00
1	AA	524	DC	N3-C4-C5	-5.32	119.77	121.90
1	AA	1735	DC	N3-C4-C5	-5.32	119.77	121.90
1	AA	2364	DA	C5-C6-N1	-5.32	115.04	117.70
1	AA	2550	DC	N3-C4-C5	-5.32	119.77	121.90
1	AA	2581	DC	N3-C4-C5	-5.32	119.77	121.90
1	AA	3267	DA	C5-C6-N6	-5.32	119.44	123.70
1	AA	3832	DC	N3-C4-C5	-5.32	119.77	121.90
1	AA	4041	DA	C5-C6-N1	-5.32	115.04	117.70
1	AA	4894	DC	N3-C4-C5	-5.32	119.77	121.90
1	AA	5226	DA	C5-C6-N6	-5.32	119.44	123.70
1	AA	5937	DA	C5-C6-N6	-5.32	119.44	123.70
1	AA	6629	DC	N3-C4-C5	-5.32	119.77	121.90
1	AA	6697	DA	C5-C6-N6	-5.32	119.44	123.70
1	AA	6886	DC	N3-C4-N4	5.32	121.72	118.00
1	AA	6987	DC	N3-C4-N4	5.32	121.72	118.00
1	AA	7029	DC	N3-C4-N4	5.32	121.72	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	AC	18	DC	C4'-C3'-C2'	-5.32	98.31	103.10
14	AE	10	DC	N3-C4-N4	5.32	121.72	118.00
27	AR	43	DA	C5-C6-N1	-5.32	115.04	117.70
39	Af	12	DC	N3-C4-C5	-5.32	119.77	121.90
55	Az	32	DA	C5-C6-N6	-5.32	119.44	123.70
66	BB	5	DC	N3-C4-N4	5.32	121.72	118.00
66	BB	12	DA	C5-C6-N1	-5.32	115.04	117.70
66	BB	24	DG	O4'-C1'-N9	5.32	111.72	108.00
74	BJ	53	DA	C5-C6-N6	-5.32	119.44	123.70
77	BM	2	DA	C5-C6-N6	-5.32	119.44	123.70
89	BY	7	DA	C5-C6-N6	-5.32	119.44	123.70
90	BZ	61	DA	C5-C6-N1	-5.32	115.04	117.70
117	C7	16	DA	C5-C6-N1	-5.32	115.04	117.70
119	CB	52	DC	N3-C4-N4	5.32	121.72	118.00
126	CI	19	DA	C5-C6-N6	-5.32	119.44	123.70
128	CK	27	DA	C4-C5-C6	5.32	119.66	117.00
140	CW	21	DC	N3-C4-N4	5.32	121.72	118.00
149	Cg	26	DA	C5-C6-N1	-5.32	115.04	117.70
162	Cz	43	DA	C5-C6-N6	-5.32	119.44	123.70
1	AA	89	DT	C5'-C4'-C3'	5.32	123.67	114.10
1	AA	3092	DC	N3-C4-N4	5.32	121.72	118.00
1	AA	5097	DA	C5-C6-N6	-5.32	119.44	123.70
1	AA	6797	DC	N3-C4-C5	-5.32	119.77	121.90
35	AZ	13	DA	C5-C6-N1	-5.32	115.04	117.70
50	Au	18	DC	N3-C4-N4	5.32	121.72	118.00
51	Av	20	DA	C5-C6-N1	-5.32	115.04	117.70
94	Bd	46	DC	N3-C4-C5	-5.32	119.77	121.90
103	Bm	7	DC	N3-C4-N4	5.32	121.72	118.00
133	CP	46	DC	N3-C4-N4	5.32	121.72	118.00
1	AA	350	DC	N3-C4-C5	-5.32	119.77	121.90
1	AA	526	DA	C5-C6-N1	-5.32	115.04	117.70
1	AA	1007	DA	C4-C5-C6	5.32	119.66	117.00
1	AA	1308	DA	C5-C6-N6	-5.32	119.45	123.70
1	AA	1962	DA	P-O3'-C3'	5.32	126.08	119.70
1	AA	3214	DA	C5-C6-N1	-5.32	115.04	117.70
1	AA	4144	DA	C5-C6-N1	-5.32	115.04	117.70
1	AA	4548	DA	C5-C6-N1	-5.32	115.04	117.70
1	AA	5002	DC	N3-C4-C5	-5.32	119.77	121.90
1	AA	5232	DC	N3-C4-C5	-5.32	119.77	121.90
1	AA	5766	DC	N3-C4-N4	5.32	121.72	118.00
1	AA	6335	DA	C5-C6-N6	-5.32	119.45	123.70
8	A6	22	DC	N3-C4-C5	-5.32	119.77	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	AQ	29	DA	C5-C6-N1	-5.32	115.04	117.70
38	Ad	18	DC	N3-C4-N4	5.32	121.72	118.00
42	Ai	19	DC	N3-C4-N4	5.32	121.72	118.00
83	BS	6	DC	N3-C4-N4	5.32	121.72	118.00
99	Bi	4	DA	C5-C6-N1	-5.32	115.04	117.70
99	Bi	16	DA	C5-C6-N6	-5.32	119.45	123.70
116	C6	44	DC	N3-C4-N4	5.32	121.72	118.00
119	CB	33	DC	N3-C4-C5	-5.32	119.77	121.90
126	CI	8	DC	N3-C4-C5	-5.32	119.77	121.90
130	CM	35	DC	N3-C4-N4	5.32	121.72	118.00
156	Ct	22	DA	C4-C5-C6	5.32	119.66	117.00
156	Ct	37	DC	N3-C4-C5	-5.32	119.77	121.90
1	AA	250	DA	C5-C6-N6	-5.32	119.45	123.70
1	AA	573	DA	C4-C5-C6	5.32	119.66	117.00
1	AA	1515	DT	O4'-C4'-C3'	-5.32	102.37	104.50
1	AA	1744	DA	C5-C6-N1	-5.32	115.04	117.70
1	AA	1912	DC	N3-C4-N4	5.32	121.72	118.00
1	AA	2837	DA	C5-C6-N1	-5.32	115.04	117.70
1	AA	3406	DC	N3-C4-N4	5.32	121.72	118.00
1	AA	3712	DC	N3-C4-C5	-5.32	119.77	121.90
1	AA	3852	DG	P-O3'-C3'	5.32	126.08	119.70
1	AA	4133	DC	N3-C4-N4	5.32	121.72	118.00
1	AA	5609	DA	C5-C6-N1	-5.32	115.04	117.70
1	AA	5795	DC	C1'-O4'-C4'	-5.32	104.78	110.10
24	AO	34	DC	N3-C4-C5	-5.32	119.77	121.90
37	Ac	32	DA	C5-C6-N1	-5.32	115.04	117.70
40	Ag	48	DA	C4-C5-C6	5.32	119.66	117.00
64	B8	31	DC	N3-C4-N4	5.32	121.72	118.00
67	BC	11	DA	C5-C6-N6	-5.32	119.45	123.70
71	BG	12	DC	N3-C4-C5	-5.32	119.77	121.90
103	Bm	8	DC	N3-C4-N4	5.32	121.72	118.00
135	CR	30	DC	N3-C4-N4	5.32	121.72	118.00
144	Cb	27	DA	C5-C6-N6	-5.32	119.45	123.70
148	Cf	20	DA	P-O3'-C3'	5.32	126.08	119.70
157	Cu	13	DA	C5-C6-N1	-5.32	115.04	117.70
157	Cu	56	DC	N3-C4-C5	-5.32	119.77	121.90
159	Cw	42	DA	C5-C6-N6	-5.32	119.45	123.70
1	AA	168	DC	N3-C4-C5	-5.31	119.77	121.90
1	AA	713	DC	N3-C4-N4	5.31	121.72	118.00
1	AA	2045	DC	N3-C4-C5	-5.31	119.78	121.90
1	AA	2267	DC	N3-C4-N4	5.31	121.72	118.00
1	AA	2438	DA	C5-C6-N1	-5.31	115.04	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	4636	DC	N3-C4-C5	-5.31	119.77	121.90
7	A5	37	DA	C5-C6-N1	-5.31	115.04	117.70
11	AB	23	DC	N3-C4-N4	5.31	121.72	118.00
19	AJ	18	DA	C4-C5-C6	5.31	119.66	117.00
28	AS	9	DA	C5-C6-N6	-5.31	119.45	123.70
60	B4	28	DA	C5-C6-N6	-5.31	119.45	123.70
65	B9	16	DA	C5-C6-N1	-5.31	115.04	117.70
98	Bh	44	DA	C5-C6-N6	-5.31	119.45	123.70
122	CE	15	DC	N3-C4-C5	-5.31	119.77	121.90
130	CM	10	DA	C5-C6-N1	-5.31	115.04	117.70
161	Cy	52	DC	N3-C4-N4	5.31	121.72	118.00
1	AA	68	DC	O4'-C1'-N1	5.31	111.72	108.00
1	AA	773	DC	N3-C4-C5	-5.31	119.78	121.90
1	AA	5088	DG	C3'-C2'-C1'	-5.31	96.12	102.50
1	AA	5885	DA	O4'-C4'-C3'	-5.31	102.38	104.50
1	AA	6803	DA	C5-C6-N6	-5.31	119.45	123.70
1	AA	6861	DC	N3-C4-N4	5.31	121.72	118.00
1	AA	6967	DA	C5-C6-N6	-5.31	119.45	123.70
13	AD	19	DC	N3-C4-N4	5.31	121.72	118.00
14	AE	1	DC	N3-C4-C5	-5.31	119.78	121.90
20	AK	53	DA	C5-C6-N1	-5.31	115.04	117.70
26	AQ	15	DC	N3-C4-N4	5.31	121.72	118.00
37	Ac	54	DG	O4'-C4'-C3'	-5.31	102.38	104.50
40	Ag	23	DC	N3-C4-N4	5.31	121.72	118.00
42	Ai	10	DC	N3-C4-N4	5.31	121.72	118.00
44	Ak	1	DA	C5-C6-N1	-5.31	115.04	117.70
57	B1	7	DA	C5-C6-N6	-5.31	119.45	123.70
57	B1	38	DC	N3-C4-C5	-5.31	119.78	121.90
58	B2	6	DA	C5-C6-N6	-5.31	119.45	123.70
59	B3	38	DA	C4'-C3'-C2'	-5.31	98.32	103.10
62	B6	8	DA	P-O3'-C3'	5.31	126.08	119.70
62	B6	34	DA	P-O3'-C3'	5.31	126.08	119.70
63	B7	39	DA	C5-C6-N1	-5.31	115.04	117.70
65	B9	22	DC	P-O5'-C5'	-5.31	112.40	120.90
78	BN	25	DA	C5-C6-N6	-5.31	119.45	123.70
98	Bh	2	DA	C5-C6-N1	-5.31	115.04	117.70
119	CB	46	DC	N3-C4-C5	-5.31	119.78	121.90
121	CD	3	DC	N3-C4-N4	5.31	121.72	118.00
142	CY	13	DA	C5-C6-N1	-5.31	115.04	117.70
161	Cy	30	DA	C5-C6-N6	-5.31	119.45	123.70
1	AA	1772	DC	N3-C4-C5	-5.31	119.78	121.90
1	AA	2781	DA	C5-C6-N1	-5.31	115.05	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3212	DA	C5-C6-N6	-5.31	119.45	123.70
1	AA	3780	DC	N3-C4-N4	5.31	121.72	118.00
1	AA	5013	DA	C5-C6-N1	-5.31	115.04	117.70
1	AA	5122	DC	N3-C4-C5	-5.31	119.78	121.90
1	AA	5248	DA	C1'-O4'-C4'	-5.31	104.79	110.10
1	AA	6206	DC	N3-C4-C5	-5.31	119.78	121.90
3	A1	25	DA	C5-C6-N6	-5.31	119.45	123.70
40	Ag	8	DA	C5-C6-N6	-5.31	119.45	123.70
91	Ba	31	DT	C5'-C4'-C3'	-5.31	104.54	114.10
115	C5	62	DC	N3-C4-N4	5.31	121.72	118.00
1	AA	495	DC	N3-C4-N4	5.31	121.72	118.00
1	AA	1005	DA	C5-C6-N6	-5.31	119.45	123.70
1	AA	1111	DC	O4'-C1'-C2'	-5.31	101.65	105.90
1	AA	1805	DA	C5-C6-N6	-5.31	119.45	123.70
1	AA	2280	DT	O4'-C1'-C2'	-5.31	101.65	105.90
1	AA	2582	DC	N3-C4-N4	5.31	121.72	118.00
1	AA	3773	DC	N3-C4-C5	-5.31	119.78	121.90
1	AA	4517	DC	N3-C4-C5	-5.31	119.78	121.90
1	AA	4707	DA	C5-C6-N1	-5.31	115.05	117.70
1	AA	4893	DC	N3-C4-N4	5.31	121.72	118.00
1	AA	4997	DC	N3-C4-C5	-5.31	119.78	121.90
1	AA	5409	DC	C1'-O4'-C4'	-5.31	104.79	110.10
1	AA	5942	DA	C5-C6-N1	-5.31	115.05	117.70
1	AA	6405	DC	N3-C4-C5	-5.31	119.78	121.90
1	AA	6665	DC	N3-C4-C5	-5.31	119.78	121.90
1	AA	6673	DC	N3-C4-N4	5.31	121.72	118.00
1	AA	6746	DC	N3-C4-C5	-5.31	119.78	121.90
2	A0	14	DA	C5-C6-N1	-5.31	115.05	117.70
5	A3	38	DC	O4'-C4'-C3'	-5.31	102.38	104.50
12	AC	11	DA	C5-C6-N6	-5.31	119.45	123.70
28	AS	60	DC	N3-C4-N4	5.31	121.72	118.00
34	AY	2	DT	O4'-C1'-N1	5.31	111.72	108.00
37	Ac	34	DA	C5-C6-N1	-5.31	115.05	117.70
57	B1	47	DA	C5-C6-N6	-5.31	119.45	123.70
65	B9	5	DA	C5-C6-N6	-5.31	119.45	123.70
87	BW	14	DA	C5-C6-N6	-5.31	119.45	123.70
87	BW	36	DC	N3-C4-C5	-5.31	119.78	121.90
93	Bc	26	DC	N3-C4-C5	-5.31	119.78	121.90
93	Bc	46	DC	O4'-C1'-C2'	-5.31	101.65	105.90
101	Bk	32	DA	C5-C6-N1	-5.31	115.05	117.70
106	Bp	25	DA	C5-C6-N1	-5.31	115.05	117.70
115	C5	14	DA	C5-C6-N1	-5.31	115.05	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
137	CT	13	DC	N3-C4-C5	-5.31	119.78	121.90
137	CT	29	DC	N3-C4-C5	-5.31	119.78	121.90
143	CZ	30	DA	C5-C6-N6	-5.31	119.45	123.70
145	Cc	53	DC	N3-C4-N4	5.31	121.72	118.00
1	AA	14	DT	O4'-C1'-C2'	-5.31	101.66	105.90
1	AA	1495	DC	N3-C4-N4	5.31	121.72	118.00
1	AA	1708	DA	C5-C6-N1	-5.31	115.05	117.70
1	AA	2078	DC	N3-C4-C5	-5.31	119.78	121.90
1	AA	2442	DA	C4-C5-C6	5.31	119.65	117.00
1	AA	2629	DC	N3-C4-N4	5.31	121.72	118.00
1	AA	3522	DG	O4'-C1'-N9	5.31	111.72	108.00
1	AA	3580	DA	C5-C6-N6	-5.31	119.45	123.70
1	AA	5746	DA	C4-C5-C6	5.31	119.65	117.00
1	AA	6652	DA	C5-C6-N6	-5.31	119.45	123.70
7	A5	17	DC	N3-C4-C5	-5.31	119.78	121.90
11	AB	11	DA	C5-C6-N1	-5.31	115.05	117.70
14	AE	32	DC	N3-C4-N4	5.31	121.72	118.00
15	AF	48	DC	N3-C4-N4	5.31	121.72	118.00
16	AG	11	DC	N3-C4-N4	5.31	121.72	118.00
16	AG	37	DA	C5-C6-N1	-5.31	115.05	117.70
22	AM	22	DA	C5-C6-N6	-5.31	119.45	123.70
34	AY	10	DC	N3-C4-C5	-5.31	119.78	121.90
43	Aj	16	DA	C4-C5-C6	5.31	119.65	117.00
53	Ax	25	DA	C5-C6-N6	-5.31	119.45	123.70
63	B7	29	DA	C5-C6-N6	-5.31	119.45	123.70
76	BL	8	DC	N3-C4-C5	-5.31	119.78	121.90
77	BM	40	DC	O4'-C1'-C2'	-5.31	101.65	105.90
77	BM	50	DA	C5-C6-N6	-5.31	119.45	123.70
103	Bm	36	DC	N3-C4-C5	-5.31	119.78	121.90
120	CC	15	DA	C5-C6-N6	-5.31	119.45	123.70
138	CU	22	DC	N3-C4-N4	5.31	121.72	118.00
142	CY	11	DA	C5-C6-N6	-5.31	119.45	123.70
156	Ct	35	DA	C5-C6-N1	-5.31	115.05	117.70
161	Cy	13	DA	C5-C6-N1	-5.31	115.05	117.70
1	AA	133	DG	O4'-C4'-C3'	-5.31	102.38	104.50
1	AA	1765	DA	C5-C6-N1	-5.31	115.05	117.70
1	AA	2226	DA	C5-C6-N6	-5.31	119.45	123.70
1	AA	6664	DA	C5-C6-N1	-5.31	115.05	117.70
21	AL	3	DA	C4-C5-C6	5.31	119.65	117.00
21	AL	33	DC	N3-C4-C5	-5.31	119.78	121.90
24	AO	34	DC	N3-C4-N4	5.31	121.71	118.00
29	AT	48	DA	C5-C6-N6	-5.31	119.45	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
33	AX	9	DA	C5-C6-N1	-5.31	115.05	117.70
73	BI	12	DC	N3-C4-N4	5.31	121.71	118.00
77	BM	28	DC	N3-C4-N4	5.31	121.71	118.00
79	BO	35	DC	N3-C4-C5	-5.31	119.78	121.90
130	CM	49	DA	C5-C6-N1	-5.31	115.05	117.70
143	CZ	7	DA	C5-C6-N1	-5.31	115.05	117.70
1	AA	72	DA	C5-C6-N1	-5.30	115.05	117.70
1	AA	977	DC	O4'-C1'-N1	5.30	111.71	108.00
1	AA	1149	DC	N3-C4-C5	-5.30	119.78	121.90
1	AA	2103	DC	N3-C4-N4	5.30	121.71	118.00
1	AA	3231	DC	N3-C4-C5	-5.30	119.78	121.90
1	AA	3548	DC	N3-C4-N4	5.30	121.71	118.00
1	AA	3995	DC	N3-C4-N4	5.30	121.71	118.00
1	AA	3997	DC	P-O3'-C3'	5.30	126.06	119.70
1	AA	4370	DA	C5-C6-N6	-5.30	119.46	123.70
1	AA	4448	DA	C5-C6-N6	-5.30	119.46	123.70
1	AA	4997	DC	N3-C4-N4	5.30	121.71	118.00
1	AA	5023	DA	P-O3'-C3'	5.30	126.07	119.70
1	AA	5169	DT	P-O3'-C3'	5.30	126.06	119.70
1	AA	5346	DA	C4-C5-C6	5.30	119.65	117.00
1	AA	6260	DC	N3-C4-N4	5.30	121.71	118.00
18	AI	17	DA	C5-C6-N1	-5.30	115.05	117.70
22	AM	11	DT	O4'-C1'-N1	5.30	111.71	108.00
40	Ag	26	DC	N3-C4-N4	5.30	121.71	118.00
52	Aw	35	DC	N3-C4-N4	5.30	121.71	118.00
53	Ax	9	DA	C5-C6-N6	-5.30	119.46	123.70
64	B8	33	DC	N3-C4-N4	5.30	121.71	118.00
65	B9	16	DA	C5-C6-N6	-5.30	119.46	123.70
68	BD	7	DC	N3-C4-C5	-5.30	119.78	121.90
87	BW	16	DC	N3-C4-N4	5.30	121.71	118.00
100	Bj	30	DT	P-O3'-C3'	5.30	126.06	119.70
111	C1	9	DA	C5-C6-N1	-5.30	115.05	117.70
114	C4	53	DA	C5-C6-N6	-5.30	119.46	123.70
117	C7	14	DC	N3-C4-C5	-5.30	119.78	121.90
126	CI	15	DA	C5-C6-N6	-5.30	119.46	123.70
128	CK	5	DA	C5-C6-N1	-5.30	115.05	117.70
143	CZ	40	DC	N3-C4-N4	5.30	121.71	118.00
147	Ce	47	DA	C5-C6-N6	-5.30	119.46	123.70
159	Cw	44	DT	P-O5'-C5'	-5.30	112.41	120.90
1	AA	1665	DA	C5-C6-N6	-5.30	119.46	123.70
1	AA	6256	DA	C5-C6-N6	-5.30	119.46	123.70
1	AA	6918	DC	N3-C4-N4	5.30	121.71	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6934	DC	N3-C4-N4	5.30	121.71	118.00
15	AF	1	DC	O4'-C1'-N1	5.30	111.71	108.00
1	AA	528	DA	C5-C6-N6	-5.30	119.46	123.70
1	AA	1765	DA	C5-C6-N6	-5.30	119.46	123.70
1	AA	2808	DA	P-O3'-C3'	5.30	126.06	119.70
1	AA	3698	DA	C5-C6-N6	-5.30	119.46	123.70
1	AA	4205	DA	C5-C6-N6	-5.30	119.46	123.70
1	AA	4522	DC	N3-C4-N4	5.30	121.71	118.00
1	AA	5731	DC	C1'-O4'-C4'	-5.30	104.80	110.10
1	AA	5897	DC	O4'-C1'-N1	5.30	111.71	108.00
1	AA	6355	DC	N3-C4-N4	5.30	121.71	118.00
1	AA	6527	DG	C1'-O4'-C4'	-5.30	104.80	110.10
1	AA	6783	DA	O4'-C1'-N9	5.30	111.71	108.00
1	AA	7107	DC	N3-C4-C5	-5.30	119.78	121.90
2	A0	40	DA	C5-C6-N6	-5.30	119.46	123.70
15	AF	28	DC	N3-C4-C5	-5.30	119.78	121.90
18	AI	36	DA	O4'-C1'-N9	5.30	111.71	108.00
23	AN	31	DC	N3-C4-N4	5.30	121.71	118.00
26	AQ	8	DA	C5-C6-N1	-5.30	115.05	117.70
27	AR	12	DC	N3-C4-N4	5.30	121.71	118.00
33	AX	14	DA	C5-C6-N1	-5.30	115.05	117.70
37	Ac	21	DA	C5-C6-N1	-5.30	115.05	117.70
51	Av	17	DC	N3-C4-N4	5.30	121.71	118.00
55	Az	2	DC	N3-C4-N4	5.30	121.71	118.00
77	BM	17	DA	C5-C6-N1	-5.30	115.05	117.70
80	BP	42	DA	C5-C6-N1	-5.30	115.05	117.70
87	BW	15	DC	N3-C4-C5	-5.30	119.78	121.90
89	BY	21	DA	C5-C6-N1	-5.30	115.05	117.70
90	BZ	62	DA	O4'-C1'-N9	5.30	111.71	108.00
100	Bj	25	DC	N3-C4-N4	5.30	121.71	118.00
137	CT	14	DC	N3-C4-C5	-5.30	119.78	121.90
139	CV	52	DC	N3-C4-N4	5.30	121.71	118.00
145	Cc	32	DC	C4'-C3'-C2'	-5.30	98.33	103.10
1	AA	318	DC	N3-C4-N4	5.30	121.71	118.00
1	AA	694	DC	N3-C4-N4	5.30	121.71	118.00
1	AA	1137	DA	P-O3'-C3'	5.30	126.06	119.70
1	AA	1193	DC	N3-C4-C5	-5.30	119.78	121.90
1	AA	1434	DA	C5-C6-N1	-5.30	115.05	117.70
1	AA	1723	DC	C1'-O4'-C4'	-5.30	104.80	110.10
1	AA	1885	DC	O4'-C1'-N1	5.30	111.71	108.00
1	AA	2109	DC	N3-C4-N4	5.30	121.71	118.00
1	AA	2506	DA	C5-C6-N6	-5.30	119.46	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2533	DG	O4'-C1'-N9	5.30	111.71	108.00
1	AA	2842	DC	N3-C4-N4	5.30	121.71	118.00
1	AA	3605	DC	N3-C4-C5	-5.30	119.78	121.90
1	AA	4001	DA	C5-C6-N6	-5.30	119.46	123.70
1	AA	4392	DC	N3-C4-N4	5.30	121.71	118.00
1	AA	4638	DC	C5'-C4'-C3'	-5.30	104.56	114.10
1	AA	5272	DC	N3-C4-N4	5.30	121.71	118.00
1	AA	6504	DA	C5-C6-N6	-5.30	119.46	123.70
2	A0	22	DC	N3-C4-N4	5.30	121.71	118.00
6	A4	11	DC	N3-C4-N4	5.30	121.71	118.00
9	A7	45	DC	N3-C4-N4	5.30	121.71	118.00
20	AK	13	DA	C5-C6-N1	-5.30	115.05	117.70
43	Aj	17	DA	C5-C6-N1	-5.30	115.05	117.70
51	Av	42	DC	N3-C4-N4	5.30	121.71	118.00
56	B0	12	DC	N3-C4-N4	5.30	121.71	118.00
61	B5	23	DA	C5-C6-N6	-5.30	119.46	123.70
94	Bd	30	DC	N3-C4-C5	-5.30	119.78	121.90
100	Bj	11	DC	N3-C4-C5	-5.30	119.78	121.90
102	Bl	28	DA	P-O3'-C3'	5.30	126.06	119.70
118	C8	15	DA	C5-C6-N1	-5.30	115.05	117.70
132	CO	16	DA	C5-C6-N1	-5.30	115.05	117.70
150	Ch	33	DA	C5-C6-N6	-5.30	119.46	123.70
154	Cr	41	DC	N3-C4-C5	-5.30	119.78	121.90
1	AA	260	DC	N3-C4-C5	-5.30	119.78	121.90
1	AA	804	DA	C5-C6-N6	-5.30	119.46	123.70
1	AA	2308	DC	N3-C4-N4	5.30	121.71	118.00
1	AA	4111	DC	N3-C4-C5	-5.30	119.78	121.90
1	AA	4274	DA	C5-C6-N6	-5.30	119.46	123.70
1	AA	5043	DC	N3-C4-C5	-5.30	119.78	121.90
1	AA	5055	DA	C5-C6-N6	-5.30	119.46	123.70
6	A4	40	DC	N3-C4-C5	-5.30	119.78	121.90
29	AT	43	DA	C4'-C3'-C2'	-5.30	98.33	103.10
40	Ag	5	DC	N3-C4-N4	5.30	121.71	118.00
43	Aj	54	DT	C1'-O4'-C4'	-5.30	104.80	110.10
69	BE	1	DC	N3-C4-C5	-5.30	119.78	121.90
114	C4	28	DC	N3-C4-N4	5.30	121.71	118.00
121	CD	30	DA	C5-C6-N6	-5.30	119.46	123.70
127	CJ	25	DC	N3-C4-N4	5.30	121.71	118.00
137	CT	21	DA	C5-C6-N1	-5.30	115.05	117.70
137	CT	38	DC	N3-C4-C5	-5.30	119.78	121.90
140	CW	19	DA	C5-C6-N6	-5.30	119.46	123.70
1	AA	291	DC	N3-C4-C5	-5.30	119.78	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	783	DA	C5-C6-N6	-5.30	119.46	123.70
1	AA	1843	DT	P-O3'-C3'	5.30	126.06	119.70
1	AA	2808	DA	C4-C5-C6	5.30	119.65	117.00
1	AA	3615	DC	N3-C4-N4	5.30	121.71	118.00
1	AA	4019	DC	N3-C4-N4	5.30	121.71	118.00
1	AA	4366	DA	C5-C6-N1	-5.30	115.05	117.70
1	AA	4605	DC	N3-C4-C5	-5.30	119.78	121.90
1	AA	4888	DA	C5-C6-N1	-5.30	115.05	117.70
1	AA	6819	DA	C5-C6-N1	-5.30	115.05	117.70
6	A4	10	DA	C5-C6-N1	-5.30	115.05	117.70
16	AG	1	DC	N3-C4-N4	5.30	121.71	118.00
24	AO	8	DC	N3-C4-N4	5.30	121.71	118.00
24	AO	44	DA	C4-C5-C6	5.30	119.65	117.00
30	AU	4	DC	N3-C4-N4	5.30	121.71	118.00
36	Ab	40	DC	N3-C4-C5	-5.30	119.78	121.90
69	BE	29	DC	N3-C4-N4	5.30	121.71	118.00
87	BW	37	DA	C5-C6-N1	-5.30	115.05	117.70
92	Bb	62	DC	N3-C4-C5	-5.30	119.78	121.90
104	Bn	44	DC	N3-C4-C5	-5.30	119.78	121.90
108	Br	37	DC	N3-C4-C5	-5.30	119.78	121.90
135	CR	5	DC	N3-C4-N4	5.30	121.71	118.00
145	Cc	43	DC	N3-C4-C5	-5.30	119.78	121.90
146	Cd	26	DA	C5-C6-N1	-5.30	115.05	117.70
154	Cr	46	DC	N3-C4-N4	5.30	121.71	118.00
1	AA	49	DA	C5-C6-N1	-5.29	115.05	117.70
1	AA	1968	DA	C5-C6-N1	-5.29	115.05	117.70
1	AA	3152	DA	C5-C6-N6	-5.29	119.46	123.70
1	AA	4012	DA	C5-C6-N6	-5.29	119.46	123.70
1	AA	4823	DA	C5-C6-N1	-5.29	115.05	117.70
1	AA	5026	DC	N3-C4-C5	-5.29	119.78	121.90
1	AA	5401	DA	C4-C5-C6	5.29	119.65	117.00
1	AA	5854	DC	N3-C4-N4	5.29	121.71	118.00
1	AA	5931	DA	O4'-C1'-N9	5.29	111.71	108.00
1	AA	6134	DC	N3-C4-N4	5.29	121.71	118.00
1	AA	6656	DC	N3-C4-N4	5.29	121.71	118.00
5	A3	5	DC	N3-C4-C5	-5.29	119.78	121.90
37	Ac	31	DC	N3-C4-C5	-5.29	119.78	121.90
39	Af	23	DA	C4-C5-C6	5.29	119.65	117.00
44	Ak	42	DA	C5-C6-N6	-5.29	119.46	123.70
58	B2	5	DC	O4'-C1'-C2'	-5.29	101.66	105.90
83	BS	44	DA	C5-C6-N1	-5.29	115.05	117.70
86	BV	26	DC	N3-C4-C5	-5.29	119.78	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
88	BX	46	DA	C5-C6-N1	-5.29	115.05	117.70
110	C0	13	DC	N3-C4-C5	-5.29	119.78	121.90
133	CP	3	DA	C5-C6-N6	-5.29	119.46	123.70
156	Ct	35	DA	C5-C6-N6	-5.29	119.46	123.70
161	Cy	59	DA	C5-C6-N6	-5.29	119.46	123.70
1	AA	101	DC	N3-C4-C5	-5.29	119.78	121.90
1	AA	385	DC	N3-C4-N4	5.29	121.71	118.00
1	AA	421	DC	N3-C4-N4	5.29	121.70	118.00
1	AA	735	DC	N3-C4-C5	-5.29	119.78	121.90
1	AA	783	DA	C5-C6-N1	-5.29	115.05	117.70
1	AA	1019	DC	N3-C4-C5	-5.29	119.78	121.90
1	AA	1087	DC	N3-C4-C5	-5.29	119.78	121.90
1	AA	1574	DA	C5-C6-N6	-5.29	119.47	123.70
1	AA	1730	DA	C5-C6-N6	-5.29	119.47	123.70
1	AA	2582	DC	N3-C4-C5	-5.29	119.78	121.90
1	AA	3037	DA	C5-C6-N1	-5.29	115.05	117.70
1	AA	3172	DC	N3-C4-N4	5.29	121.71	118.00
1	AA	3494	DA	C5-C6-N6	-5.29	119.47	123.70
1	AA	3510	DA	C5-C6-N6	-5.29	119.47	123.70
1	AA	3626	DC	N3-C4-C5	-5.29	119.78	121.90
1	AA	4146	DA	C5-C6-N1	-5.29	115.05	117.70
1	AA	4541	DC	N3-C4-C5	-5.29	119.78	121.90
1	AA	4827	DC	N3-C4-N4	5.29	121.71	118.00
1	AA	4975	DA	C5-C6-N6	-5.29	119.47	123.70
1	AA	6597	DC	N3-C4-N4	5.29	121.70	118.00
1	AA	7198	DC	N3-C4-N4	5.29	121.70	118.00
28	AS	12	DA	C5-C6-N1	-5.29	115.05	117.70
38	Ad	26	DA	C5-C6-N6	-5.29	119.47	123.70
52	Aw	16	DA	C4'-C3'-C2'	-5.29	98.34	103.10
53	Ax	8	DA	C5-C6-N6	-5.29	119.47	123.70
79	BO	47	DC	N3-C4-C5	-5.29	119.78	121.90
87	BW	20	DA	C5-C6-N6	-5.29	119.46	123.70
92	Bb	8	DC	N3-C4-C5	-5.29	119.78	121.90
93	Bc	40	DC	N3-C4-N4	5.29	121.71	118.00
106	Bp	16	DC	N3-C4-C5	-5.29	119.78	121.90
114	C4	6	DA	C5-C6-N6	-5.29	119.46	123.70
116	C6	48	DA	C5-C6-N1	-5.29	115.05	117.70
131	CN	1	DC	N3-C4-N4	5.29	121.70	118.00
132	CO	5	DA	C5-C6-N6	-5.29	119.47	123.70
1	AA	521	DC	N3-C4-C5	-5.29	119.78	121.90
1	AA	630	DC	N3-C4-N4	5.29	121.70	118.00
1	AA	676	DC	N3-C4-N4	5.29	121.70	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2431	DC	N3-C4-C5	-5.29	119.78	121.90
1	AA	3198	DA	C5-C6-N1	-5.29	115.06	117.70
1	AA	4417	DC	N3-C4-C5	-5.29	119.78	121.90
1	AA	5128	DC	N3-C4-C5	-5.29	119.78	121.90
1	AA	5134	DA	C5-C6-N1	-5.29	115.05	117.70
1	AA	7009	DC	N3-C4-N4	5.29	121.70	118.00
1	AA	7200	DA	C5-C6-N1	-5.29	115.06	117.70
5	A3	23	DA	C5-C6-N6	-5.29	119.47	123.70
10	A8	37	DA	C5-C6-N1	-5.29	115.05	117.70
18	AI	26	DC	N3-C4-N4	5.29	121.70	118.00
35	AZ	34	DC	N3-C4-N4	5.29	121.70	118.00
40	Ag	8	DA	C5-C6-N1	-5.29	115.05	117.70
41	Ah	10	DC	N3-C4-N4	5.29	121.70	118.00
47	An	41	DC	O4'-C1'-C2'	-5.29	101.67	105.90
56	B0	19	DC	N3-C4-C5	-5.29	119.78	121.90
67	BC	35	DA	C5-C6-N1	-5.29	115.06	117.70
71	BG	12	DC	P-O5'-C5'	-5.29	112.44	120.90
77	BM	42	DA	C5-C6-N6	-5.29	119.47	123.70
83	BS	41	DA	C5-C6-N1	-5.29	115.05	117.70
87	BW	51	DA	C5-C6-N6	-5.29	119.47	123.70
91	Ba	29	DA	C5-C6-N1	-5.29	115.05	117.70
93	Bc	23	DC	N3-C4-N4	5.29	121.70	118.00
93	Bc	37	DA	C5-C6-N6	-5.29	119.47	123.70
102	Bl	9	DC	N3-C4-C5	-5.29	119.78	121.90
104	Bn	19	DC	N3-C4-N4	5.29	121.70	118.00
116	C6	13	DA	C5-C6-N1	-5.29	115.05	117.70
127	CJ	21	DA	C5-C6-N6	-5.29	119.47	123.70
133	CP	6	DC	N3-C4-N4	5.29	121.70	118.00
142	CY	42	DA	C5-C6-N1	-5.29	115.05	117.70
1	AA	1707	DA	C5-C6-N1	-5.29	115.06	117.70
1	AA	1812	DC	N3-C4-C5	-5.29	119.78	121.90
1	AA	6750	DC	N3-C4-C5	-5.29	119.78	121.90
1	AA	7138	DC	N3-C4-N4	5.29	121.70	118.00
32	AW	7	DC	N3-C4-C5	-5.29	119.78	121.90
65	B9	14	DC	N3-C4-N4	5.29	121.70	118.00
79	BO	25	DC	N3-C4-C5	-5.29	119.78	121.90
97	Bg	20	DC	N3-C4-C5	-5.29	119.78	121.90
1	AA	1032	DA	C5-C6-N6	-5.29	119.47	123.70
1	AA	1394	DC	O4'-C1'-C2'	-5.29	101.67	105.90
1	AA	1720	DC	N3-C4-C5	-5.29	119.78	121.90
1	AA	2939	DA	C5-C6-N6	-5.29	119.47	123.70
1	AA	3272	DC	N3-C4-N4	5.29	121.70	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3464	DC	N3-C4-N4	5.29	121.70	118.00
1	AA	4880	DA	C4-C5-C6	5.29	119.64	117.00
1	AA	5347	DA	C5-C6-N1	-5.29	115.06	117.70
1	AA	6887	DA	C4-C5-C6	5.29	119.64	117.00
9	A7	37	DA	C5-C6-N1	-5.29	115.06	117.70
37	Ac	3	DA	C5-C6-N1	-5.29	115.06	117.70
56	B0	6	DC	N3-C4-N4	5.29	121.70	118.00
72	BH	32	DC	N3-C4-N4	5.29	121.70	118.00
76	BL	22	DC	N3-C4-C5	-5.29	119.78	121.90
82	BR	22	DC	N3-C4-C5	-5.29	119.78	121.90
109	Bs	36	DC	N3-C4-C5	-5.29	119.78	121.90
112	C2	3	DA	C5-C6-N6	-5.29	119.47	123.70
123	CF	30	DC	N3-C4-N4	5.29	121.70	118.00
133	CP	28	DC	N3-C4-C5	-5.29	119.78	121.90
152	Cp	26	DA	C5-C6-N1	-5.29	115.06	117.70
157	Cu	43	DA	C5-C6-N6	-5.29	119.47	123.70
1	AA	1071	DC	N3-C4-N4	5.29	121.70	118.00
1	AA	1922	DC	N3-C4-C5	-5.29	119.78	121.90
1	AA	2321	DA	C5-C6-N6	-5.29	119.47	123.70
1	AA	2502	DC	N3-C4-N4	5.29	121.70	118.00
1	AA	3613	DC	N3-C4-C5	-5.29	119.78	121.90
1	AA	3995	DC	C1'-O4'-C4'	-5.29	104.81	110.10
1	AA	4310	DC	N3-C4-C5	-5.29	119.78	121.90
1	AA	4701	DA	C5-C6-N1	-5.29	115.06	117.70
1	AA	5343	DA	C5-C6-N1	-5.29	115.06	117.70
1	AA	5637	DA	C5-C6-N6	-5.29	119.47	123.70
1	AA	5653	DA	C5-C6-N1	-5.29	115.06	117.70
65	B9	3	DA	C5-C6-N6	-5.29	119.47	123.70
91	Ba	14	DA	C4'-C3'-C2'	-5.29	98.34	103.10
92	Bb	10	DC	N3-C4-C5	-5.29	119.78	121.90
137	CT	3	DT	O4'-C1'-N1	5.29	111.70	108.00
1	AA	177	DG	O4'-C1'-C2'	-5.29	101.67	105.90
1	AA	314	DA	C5-C6-N1	-5.29	115.06	117.70
1	AA	1536	DA	C5-C6-N6	-5.29	119.47	123.70
1	AA	2784	DA	C5-C6-N1	-5.29	115.06	117.70
1	AA	4031	DC	N3-C4-C5	-5.29	119.79	121.90
1	AA	4529	DC	N3-C4-N4	5.29	121.70	118.00
1	AA	4753	DC	O4'-C1'-N1	5.29	111.70	108.00
1	AA	4884	DC	N3-C4-N4	5.29	121.70	118.00
1	AA	5497	DC	O4'-C1'-C2'	-5.29	101.67	105.90
1	AA	6141	DA	C5-C6-N1	-5.29	115.06	117.70
1	AA	7098	DC	N3-C4-C5	-5.29	119.79	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	7232	DC	N3-C4-N4	5.29	121.70	118.00
9	A7	24	DC	N3-C4-C5	-5.29	119.78	121.90
9	A7	35	DC	N3-C4-N4	5.29	121.70	118.00
10	A8	23	DA	C5-C6-N1	-5.29	115.06	117.70
48	Ao	36	DA	C5-C6-N6	-5.29	119.47	123.70
65	B9	19	DG	P-O3'-C3'	5.29	126.04	119.70
100	Bj	11	DC	N3-C4-N4	5.29	121.70	118.00
108	Br	8	DC	N3-C4-N4	5.29	121.70	118.00
120	CC	38	DA	C5-C6-N1	-5.29	115.06	117.70
121	CD	13	DA	C5-C6-N6	-5.29	119.47	123.70
125	CH	37	DA	C5-C6-N6	-5.29	119.47	123.70
134	CQ	18	DC	N3-C4-N4	5.29	121.70	118.00
135	CR	39	DC	N3-C4-N4	5.29	121.70	118.00
140	CW	34	DA	C5-C6-N6	-5.29	119.47	123.70
143	CZ	42	DC	N3-C4-C5	-5.29	119.78	121.90
150	Ch	43	DC	N3-C4-C5	-5.29	119.79	121.90
1	AA	20	DC	N3-C4-N4	5.28	121.70	118.00
1	AA	361	DC	N3-C4-N4	5.28	121.70	118.00
1	AA	1046	DC	N3-C4-N4	5.28	121.70	118.00
1	AA	2345	DA	C5-C6-N6	-5.28	119.47	123.70
1	AA	2809	DC	O4'-C1'-N1	5.28	111.70	108.00
1	AA	3943	DC	N3-C4-N4	5.28	121.70	118.00
1	AA	4173	DC	N3-C4-C5	-5.28	119.79	121.90
1	AA	4243	DA	C5-C6-N1	-5.28	115.06	117.70
1	AA	4543	DC	N3-C4-N4	5.28	121.70	118.00
1	AA	4714	DC	N3-C4-C5	-5.28	119.79	121.90
1	AA	4832	DA	C4-C5-C6	5.28	119.64	117.00
1	AA	4929	DA	C5-C6-N6	-5.28	119.47	123.70
1	AA	6524	DA	C5-C6-N6	-5.28	119.47	123.70
1	AA	6550	DC	N3-C4-N4	5.28	121.70	118.00
1	AA	6827	DA	C5-C6-N1	-5.28	115.06	117.70
1	AA	6853	DC	N3-C4-N4	5.28	121.70	118.00
6	A4	48	DA	C5-C6-N6	-5.28	119.47	123.70
8	A6	24	DA	C5-C6-N6	-5.28	119.47	123.70
13	AD	13	DC	N3-C4-N4	5.28	121.70	118.00
29	AT	14	DA	C5-C6-N6	-5.28	119.47	123.70
34	AY	31	DC	N3-C4-C5	-5.28	119.79	121.90
36	Ab	39	DC	N3-C4-C5	-5.28	119.79	121.90
38	Ad	40	DC	N3-C4-C5	-5.28	119.79	121.90
62	B6	28	DC	N3-C4-N4	5.28	121.70	118.00
66	BB	12	DA	C5-C6-N6	-5.28	119.47	123.70
74	BJ	45	DC	P-O5'-C5'	-5.28	112.44	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
78	BN	39	DC	N3-C4-C5	-5.28	119.79	121.90
108	Br	41	DA	C5-C6-N6	-5.28	119.47	123.70
111	C1	26	DC	N3-C4-C5	-5.28	119.79	121.90
116	C6	19	DA	C5-C6-N6	-5.28	119.47	123.70
122	CE	35	DA	C5-C6-N1	-5.28	115.06	117.70
123	CF	27	DC	N3-C4-N4	5.28	121.70	118.00
137	CT	38	DC	N3-C4-N4	5.28	121.70	118.00
145	Cc	19	DA	C5-C6-N1	-5.28	115.06	117.70
145	Cc	57	DG	P-O3'-C3'	5.28	126.04	119.70
152	Cp	30	DC	O4'-C1'-N1	5.28	111.70	108.00
161	Cy	55	DA	C5-C6-N6	-5.28	119.47	123.70
162	Cz	28	DA	C5-C6-N6	-5.28	119.47	123.70
1	AA	262	DC	N3-C4-C5	-5.28	119.79	121.90
1	AA	713	DC	N3-C4-C5	-5.28	119.79	121.90
1	AA	1848	DA	C5-C6-N6	-5.28	119.47	123.70
1	AA	2073	DC	N3-C4-C5	-5.28	119.79	121.90
1	AA	3765	DT	O4'-C1'-C2'	-5.28	101.67	105.90
2	A0	52	DA	C5-C6-N1	-5.28	115.06	117.70
13	AD	8	DC	N3-C4-N4	5.28	121.70	118.00
87	BW	28	DA	C5-C6-N1	-5.28	115.06	117.70
99	Bi	39	DG	O4'-C4'-C3'	-5.28	102.39	104.50
118	C8	5	DA	C5-C6-N6	-5.28	119.47	123.70
128	CK	39	DC	N3-C4-N4	5.28	121.70	118.00
142	CY	2	DA	C5-C6-N1	-5.28	115.06	117.70
1	AA	225	DC	N3-C4-C5	-5.28	119.79	121.90
1	AA	314	DA	C5-C6-N6	-5.28	119.47	123.70
1	AA	915	DC	O4'-C1'-C2'	-5.28	101.68	105.90
1	AA	1742	DT	O4'-C1'-N1	5.28	111.70	108.00
1	AA	2030	DC	N3-C4-N4	5.28	121.70	118.00
1	AA	3118	DC	N3-C4-C5	-5.28	119.79	121.90
1	AA	3556	DA	P-O3'-C3'	5.28	126.04	119.70
1	AA	3782	DA	C5-C6-N6	-5.28	119.48	123.70
1	AA	4205	DA	C5-C6-N1	-5.28	115.06	117.70
1	AA	4330	DC	N3-C4-C5	-5.28	119.79	121.90
1	AA	5180	DC	N3-C4-N4	5.28	121.70	118.00
1	AA	5864	DA	C5-C6-N1	-5.28	115.06	117.70
1	AA	5994	DC	N3-C4-C5	-5.28	119.79	121.90
1	AA	6874	DA	C5-C6-N6	-5.28	119.47	123.70
1	AA	7098	DC	N3-C4-N4	5.28	121.70	118.00
6	A4	5	DA	C5-C6-N6	-5.28	119.48	123.70
14	AE	32	DC	N3-C4-C5	-5.28	119.79	121.90
18	AI	7	DA	C5-C6-N1	-5.28	115.06	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
49	As	18	DA	C5-C6-N6	-5.28	119.48	123.70
62	B6	23	DC	N3-C4-N4	5.28	121.70	118.00
66	BB	7	DA	C5-C6-N1	-5.28	115.06	117.70
74	BJ	7	DC	N3-C4-N4	5.28	121.70	118.00
74	BJ	12	DA	C5-C6-N6	-5.28	119.47	123.70
76	BL	14	DT	O4'-C1'-C2'	-5.28	101.67	105.90
80	BP	16	DC	N3-C4-N4	5.28	121.70	118.00
83	BS	23	DC	N3-C4-N4	5.28	121.70	118.00
101	Bk	31	DA	C5-C6-N1	-5.28	115.06	117.70
106	Bp	24	DA	C5-C6-N1	-5.28	115.06	117.70
118	C8	1	DC	N3-C4-C5	-5.28	119.79	121.90
133	CP	36	DC	N3-C4-C5	-5.28	119.79	121.90
148	Cf	20	DA	C5-C6-N6	-5.28	119.47	123.70
149	Cg	42	DC	N3-C4-C5	-5.28	119.79	121.90
156	Ct	2	DC	N3-C4-N4	5.28	121.70	118.00
159	Cw	38	DC	N3-C4-C5	-5.28	119.79	121.90
1	AA	550	DC	N3-C4-C5	-5.28	119.79	121.90
1	AA	4955	DC	N3-C4-N4	5.28	121.69	118.00
1	AA	6913	DA	C5-C6-N1	-5.28	115.06	117.70
1	AA	6931	DC	N3-C4-N4	5.28	121.69	118.00
36	Ab	3	DC	N3-C4-N4	5.28	121.69	118.00
39	Af	27	DC	N3-C4-N4	5.28	121.69	118.00
63	B7	12	DC	N3-C4-C5	-5.28	119.79	121.90
79	BO	42	DC	C4'-C3'-C2'	-5.28	98.35	103.10
86	BV	40	DC	N3-C4-N4	5.28	121.69	118.00
111	C1	45	DA	C5-C6-N1	-5.28	115.06	117.70
124	CG	42	DC	N3-C4-C5	-5.28	119.79	121.90
150	Ch	20	DC	N3-C4-C5	-5.28	119.79	121.90
153	Cq	34	DC	N3-C4-N4	5.28	121.69	118.00
157	Cu	41	DC	N3-C4-N4	5.28	121.69	118.00
1	AA	1522	DA	C5-C6-N1	-5.28	115.06	117.70
1	AA	2170	DC	N3-C4-N4	5.28	121.69	118.00
1	AA	3021	DC	N3-C4-C5	-5.28	119.79	121.90
1	AA	3725	DC	N3-C4-N4	5.28	121.69	118.00
1	AA	3814	DG	P-O3'-C3'	5.28	126.03	119.70
1	AA	3991	DC	N3-C4-N4	5.28	121.69	118.00
1	AA	4139	DC	N3-C4-N4	5.28	121.69	118.00
1	AA	4291	DC	N3-C4-N4	5.28	121.69	118.00
1	AA	4840	DC	N3-C4-N4	5.28	121.69	118.00
1	AA	5501	DA	C5-C6-N6	-5.28	119.48	123.70
1	AA	5687	DC	N3-C4-C5	-5.28	119.79	121.90
1	AA	6440	DC	N3-C4-N4	5.28	121.69	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	7243	DA	C5-C6-N1	-5.28	115.06	117.70
4	A2	46	DA	C4-C5-C6	5.28	119.64	117.00
5	A3	24	DC	N3-C4-C5	-5.28	119.79	121.90
11	AB	19	DC	N3-C4-N4	5.28	121.69	118.00
30	AU	47	DA	C4-C5-C6	5.28	119.64	117.00
40	Ag	20	DA	C4-C5-C6	5.28	119.64	117.00
59	B3	2	DC	N3-C4-C5	-5.28	119.79	121.90
59	B3	2	DC	N3-C4-N4	5.28	121.69	118.00
60	B4	41	DC	N3-C4-C5	-5.28	119.79	121.90
70	BF	16	DA	C5-C6-N1	-5.28	115.06	117.70
88	BX	45	DC	N3-C4-N4	5.28	121.69	118.00
90	BZ	8	DC	N3-C4-N4	5.28	121.69	118.00
114	C4	31	DC	N3-C4-N4	5.28	121.69	118.00
119	CB	48	DA	C5-C6-N1	-5.28	115.06	117.70
125	CH	20	DA	C4-C5-C6	5.28	119.64	117.00
129	CL	16	DA	C5-C6-N6	-5.28	119.48	123.70
147	Ce	23	DA	C4-C5-C6	5.28	119.64	117.00
153	Cq	13	DC	O4'-C1'-C2'	-5.28	101.68	105.90
161	Cy	28	DC	N3-C4-C5	-5.28	119.79	121.90
162	Cz	25	DC	N3-C4-N4	5.28	121.69	118.00
1	AA	84	DC	N3-C4-N4	5.28	121.69	118.00
1	AA	173	DC	N3-C4-N4	5.28	121.69	118.00
1	AA	263	DC	O4'-C1'-N1	5.28	111.69	108.00
1	AA	1792	DA	C5-C6-N6	-5.28	119.48	123.70
1	AA	2105	DC	N3-C4-N4	5.28	121.69	118.00
1	AA	2281	DA	C5-C6-N6	-5.28	119.48	123.70
1	AA	2313	DC	N3-C4-N4	5.28	121.69	118.00
1	AA	2446	DA	C5-C6-N1	-5.28	115.06	117.70
1	AA	2533	DG	O4'-C4'-C3'	-5.28	102.39	104.50
1	AA	2660	DC	N3-C4-C5	-5.28	119.79	121.90
1	AA	3161	DA	C5-C6-N6	-5.28	119.48	123.70
1	AA	3411	DC	N3-C4-N4	5.28	121.69	118.00
1	AA	4744	DC	N3-C4-C5	-5.28	119.79	121.90
1	AA	5368	DC	N3-C4-N4	5.28	121.69	118.00
3	A1	39	DA	C5-C6-N6	-5.28	119.48	123.70
12	AC	32	DA	C5-C6-N6	-5.28	119.48	123.70
12	AC	36	DA	C5-C6-N1	-5.28	115.06	117.70
20	AK	8	DA	C5-C6-N1	-5.28	115.06	117.70
23	AN	33	DC	N3-C4-N4	5.28	121.69	118.00
31	AV	31	DC	N3-C4-C5	-5.28	119.79	121.90
37	Ac	39	DA	C5-C6-N6	-5.28	119.48	123.70
46	Am	44	DC	N3-C4-C5	-5.28	119.79	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
51	Av	19	DA	C5-C6-N1	-5.28	115.06	117.70
53	Ax	39	DC	N3-C4-N4	5.28	121.69	118.00
57	B1	8	DA	C5-C6-N6	-5.28	119.48	123.70
69	BE	31	DA	C5-C6-N1	-5.28	115.06	117.70
73	BI	12	DC	N3-C4-C5	-5.28	119.79	121.90
77	BM	25	DT	O4'-C1'-C2'	-5.28	101.68	105.90
88	BX	1	DG	O4'-C1'-C2'	-5.28	101.68	105.90
94	Bd	24	DA	C5-C6-N6	-5.28	119.48	123.70
96	Bf	30	DC	N3-C4-N4	5.28	121.69	118.00
97	Bg	13	DA	C5-C6-N6	-5.28	119.48	123.70
100	Bj	16	DC	N3-C4-N4	5.28	121.69	118.00
100	Bj	41	DC	N3-C4-C5	-5.28	119.79	121.90
101	Bk	37	DA	C5-C6-N1	-5.28	115.06	117.70
104	Bn	56	DC	N3-C4-C5	-5.28	119.79	121.90
119	CB	25	DC	N3-C4-C5	-5.28	119.79	121.90
130	CM	14	DA	C5-C6-N1	-5.28	115.06	117.70
136	CS	19	DC	N3-C4-N4	5.28	121.69	118.00
137	CT	40	DA	C5-C6-N6	-5.28	119.48	123.70
143	CZ	46	DC	N3-C4-N4	5.28	121.69	118.00
151	Ck	25	DC	N3-C4-C5	-5.28	119.79	121.90
161	Cy	55	DA	C5-C6-N1	-5.28	115.06	117.70
161	Cy	57	DC	N3-C4-N4	5.28	121.69	118.00
162	Cz	34	DC	N3-C4-C5	-5.28	119.79	121.90
1	AA	1173	DC	N3-C4-N4	5.27	121.69	118.00
1	AA	2073	DC	N3-C4-N4	5.27	121.69	118.00
1	AA	2907	DA	C5-C6-N1	-5.27	115.06	117.70
1	AA	3573	DA	C5-C6-N1	-5.27	115.06	117.70
23	AN	21	DA	P-O5'-C5'	-5.27	112.46	120.90
35	AZ	33	DA	C5-C6-N1	-5.27	115.06	117.70
115	C5	54	DA	C4-C5-C6	5.27	119.64	117.00
116	C6	20	DA	C5-C6-N6	-5.27	119.48	123.70
125	CH	27	DC	N3-C4-N4	5.27	121.69	118.00
1	AA	172	DC	N3-C4-N4	5.27	121.69	118.00
1	AA	201	DC	N3-C4-N4	5.27	121.69	118.00
1	AA	512	DC	N3-C4-C5	-5.27	119.79	121.90
1	AA	1061	DC	N3-C4-C5	-5.27	119.79	121.90
1	AA	1433	DC	N3-C4-C5	-5.27	119.79	121.90
1	AA	2198	DC	N3-C4-C5	-5.27	119.79	121.90
1	AA	4213	DC	N3-C4-N4	5.27	121.69	118.00
1	AA	4488	DT	C4'-C3'-C2'	-5.27	98.36	103.10
1	AA	5420	DA	C4-C5-C6	5.27	119.64	117.00
1	AA	6776	DC	N3-C4-N4	5.27	121.69	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6897	DC	N3-C4-N4	5.27	121.69	118.00
1	AA	7054	DC	N3-C4-C5	-5.27	119.79	121.90
18	AI	18	DT	O4'-C4'-C3'	-5.27	102.39	104.50
26	AQ	31	DA	C4-C5-C6	5.27	119.64	117.00
28	AS	11	DA	C5-C6-N1	-5.27	115.06	117.70
36	Ab	26	DC	N3-C4-C5	-5.27	119.79	121.90
40	Ag	21	DC	N3-C4-C5	-5.27	119.79	121.90
52	Aw	39	DA	C5-C6-N6	-5.27	119.48	123.70
89	BY	19	DA	C5-C6-N6	-5.27	119.48	123.70
103	Bm	45	DC	O4'-C1'-C2'	-5.27	101.68	105.90
104	Bn	48	DC	N3-C4-C5	-5.27	119.79	121.90
114	C4	44	DT	P-O3'-C3'	5.27	126.03	119.70
115	C5	3	DC	N3-C4-N4	5.27	121.69	118.00
116	C6	11	DA	C5-C6-N1	-5.27	115.06	117.70
123	CF	15	DT	C1'-O4'-C4'	-5.27	104.83	110.10
124	CG	35	DC	N3-C4-C5	-5.27	119.79	121.90
125	CH	36	DC	N3-C4-N4	5.27	121.69	118.00
133	CP	26	DA	C5-C6-N6	-5.27	119.48	123.70
139	CV	12	DA	C5-C6-N1	-5.27	115.06	117.70
145	Cc	28	DT	P-O5'-C5'	-5.27	112.47	120.90
161	Cy	47	DA	C5-C6-N6	-5.27	119.48	123.70
1	AA	729	DC	N3-C4-N4	5.27	121.69	118.00
1	AA	1315	DC	N3-C4-N4	5.27	121.69	118.00
1	AA	1811	DA	C5-C6-N1	-5.27	115.06	117.70
1	AA	1881	DC	N3-C4-N4	5.27	121.69	118.00
1	AA	2173	DC	N3-C4-N4	5.27	121.69	118.00
1	AA	2354	DC	O4'-C1'-C2'	-5.27	101.68	105.90
1	AA	5850	DA	C5-C6-N6	-5.27	119.48	123.70
24	AO	23	DA	C5-C6-N1	-5.27	115.06	117.70
46	Am	13	DC	N3-C4-C5	-5.27	119.79	121.90
51	Av	42	DC	N3-C4-C5	-5.27	119.79	121.90
69	BE	39	DA	C5-C6-N6	-5.27	119.48	123.70
69	BE	50	DC	N3-C4-N4	5.27	121.69	118.00
80	BP	23	DA	C5-C6-N1	-5.27	115.06	117.70
90	BZ	6	DC	N3-C4-N4	5.27	121.69	118.00
114	C4	47	DA	C5-C6-N6	-5.27	119.48	123.70
1	AA	383	DA	C5-C6-N1	-5.27	115.07	117.70
1	AA	414	DC	N3-C4-C5	-5.27	119.79	121.90
1	AA	681	DC	N3-C4-N4	5.27	121.69	118.00
1	AA	1757	DC	N3-C4-C5	-5.27	119.79	121.90
1	AA	2301	DC	N3-C4-N4	5.27	121.69	118.00
1	AA	2346	DA	C5-C6-N1	-5.27	115.06	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	4039	DC	N3-C4-C5	-5.27	119.79	121.90
1	AA	4428	DC	N3-C4-C5	-5.27	119.79	121.90
1	AA	5023	DA	C5-C6-N6	-5.27	119.48	123.70
1	AA	6440	DC	O4'-C1'-N1	5.27	111.69	108.00
1	AA	6990	DA	C5-C6-N1	-5.27	115.06	117.70
1	AA	7072	DC	N3-C4-N4	5.27	121.69	118.00
3	A1	40	DA	C5-C6-N1	-5.27	115.06	117.70
6	A4	25	DC	N3-C4-C5	-5.27	119.79	121.90
12	AC	36	DA	C5-C6-N6	-5.27	119.48	123.70
20	AK	40	DA	C4'-C3'-C2'	-5.27	98.36	103.10
42	Ai	40	DC	N3-C4-N4	5.27	121.69	118.00
43	Aj	13	DC	N3-C4-C5	-5.27	119.79	121.90
45	Al	48	DA	C5-C6-N1	-5.27	115.06	117.70
47	An	36	DA	C5-C6-N1	-5.27	115.06	117.70
56	B0	16	DC	N3-C4-N4	5.27	121.69	118.00
59	B3	37	DA	C5-C6-N6	-5.27	119.48	123.70
64	B8	11	DA	C5-C6-N6	-5.27	119.48	123.70
94	Bd	9	DT	P-O3'-C3'	5.27	126.02	119.70
97	Bg	3	DA	C5-C6-N6	-5.27	119.48	123.70
99	Bi	10	DC	N3-C4-C5	-5.27	119.79	121.90
110	C0	32	DC	N3-C4-C5	-5.27	119.79	121.90
111	C1	44	DC	N3-C4-N4	5.27	121.69	118.00
114	C4	24	DA	C5-C6-N6	-5.27	119.48	123.70
151	Ck	6	DA	C5-C6-N1	-5.27	115.07	117.70
161	Cy	27	DA	C5-C6-N6	-5.27	119.48	123.70
1	AA	84	DC	N3-C4-C5	-5.27	119.79	121.90
1	AA	832	DC	N3-C4-C5	-5.27	119.79	121.90
1	AA	1202	DA	C5-C6-N1	-5.27	115.07	117.70
1	AA	1494	DC	O4'-C1'-C2'	-5.27	101.69	105.90
1	AA	2072	DC	N3-C4-N4	5.27	121.69	118.00
1	AA	2421	DC	N3-C4-C5	-5.27	119.79	121.90
1	AA	3222	DA	C5-C6-N6	-5.27	119.49	123.70
1	AA	3371	DC	N3-C4-N4	5.27	121.69	118.00
1	AA	4024	DC	N3-C4-N4	5.27	121.69	118.00
1	AA	4277	DC	N3-C4-C5	-5.27	119.79	121.90
1	AA	4898	DT	O4'-C1'-N1	5.27	111.69	108.00
1	AA	5478	DC	N3-C4-N4	5.27	121.69	118.00
1	AA	5527	DC	N3-C4-C5	-5.27	119.79	121.90
1	AA	5560	DC	N3-C4-N4	5.27	121.69	118.00
1	AA	6180	DC	N3-C4-N4	5.27	121.69	118.00
1	AA	7202	DC	N3-C4-C5	-5.27	119.79	121.90
19	AJ	40	DC	N3-C4-C5	-5.27	119.79	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	AM	42	DC	N3-C4-C5	-5.27	119.79	121.90
23	AN	13	DA	C4-C5-C6	5.27	119.63	117.00
26	AQ	45	DA	C5-C6-N1	-5.27	115.07	117.70
50	Au	13	DC	N3-C4-N4	5.27	121.69	118.00
53	Ax	26	DA	C5-C6-N6	-5.27	119.49	123.70
76	BL	37	DC	N3-C4-C5	-5.27	119.79	121.90
79	BO	27	DC	N3-C4-N4	5.27	121.69	118.00
105	Bo	4	DC	N3-C4-N4	5.27	121.69	118.00
106	Bp	17	DA	C5-C6-N1	-5.27	115.07	117.70
111	C1	43	DC	N3-C4-C5	-5.27	119.79	121.90
132	CO	4	DA	C5-C6-N6	-5.27	119.49	123.70
142	CY	4	DA	C5-C6-N1	-5.27	115.07	117.70
154	Cr	31	DA	C5-C6-N1	-5.27	115.07	117.70
156	Ct	17	DA	C5-C6-N6	-5.27	119.48	123.70
162	Cz	27	DA	C5-C6-N6	-5.27	119.49	123.70
1	AA	672	DA	C5-C6-N1	-5.27	115.07	117.70
1	AA	3800	DC	N3-C4-C5	-5.27	119.79	121.90
1	AA	4581	DA	C5-C6-N6	-5.27	119.49	123.70
1	AA	5821	DC	N3-C4-C5	-5.27	119.79	121.90
57	B1	52	DA	C5-C6-N1	-5.27	115.07	117.70
101	Bk	6	DA	C5-C6-N1	-5.27	115.07	117.70
115	C5	3	DC	N3-C4-C5	-5.27	119.79	121.90
121	CD	27	DA	C5-C6-N1	-5.27	115.07	117.70
132	CO	4	DA	P-O5'-C5'	-5.27	112.47	120.90
146	Cd	2	DA	C5-C6-N6	-5.27	119.49	123.70
157	Cu	33	DA	C4-C5-C6	5.27	119.63	117.00
1	AA	373	DA	C5-C6-N6	-5.26	119.49	123.70
1	AA	934	DC	N3-C4-C5	-5.26	119.79	121.90
1	AA	1629	DA	C5-C6-N6	-5.26	119.49	123.70
1	AA	1802	DC	N3-C4-C5	-5.26	119.79	121.90
1	AA	3626	DC	N3-C4-N4	5.26	121.69	118.00
1	AA	3702	DA	C5-C6-N1	-5.26	115.07	117.70
1	AA	3717	DC	N3-C4-N4	5.26	121.69	118.00
1	AA	4418	DC	N3-C4-C5	-5.26	119.79	121.90
1	AA	4449	DC	C1'-O4'-C4'	-5.26	104.84	110.10
1	AA	4468	DC	N3-C4-C5	-5.26	119.79	121.90
1	AA	5409	DC	N3-C4-N4	5.26	121.69	118.00
1	AA	5556	DC	N3-C4-N4	5.26	121.69	118.00
1	AA	6140	DA	O4'-C1'-N9	5.26	111.69	108.00
1	AA	6665	DC	N3-C4-N4	5.26	121.69	118.00
1	AA	6911	DC	O4'-C1'-C2'	-5.26	101.69	105.90
1	AA	6956	DC	N3-C4-N4	5.26	121.69	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	AY	13	DA	P-O3'-C3'	5.26	126.02	119.70
47	An	25	DA	C5-C6-N6	-5.26	119.49	123.70
60	B4	9	DC	N3-C4-N4	5.26	121.68	118.00
86	BV	24	DA	C1'-O4'-C4'	-5.26	104.84	110.10
93	Bc	26	DC	O4'-C1'-N1	5.26	111.69	108.00
99	Bi	21	DC	N3-C4-N4	5.26	121.69	118.00
100	Bj	38	DC	N3-C4-N4	5.26	121.69	118.00
101	Bk	22	DA	C5-C6-N1	-5.26	115.07	117.70
119	CB	7	DA	C4-C5-C6	5.26	119.63	117.00
133	CP	5	DA	C5-C6-N6	-5.26	119.49	123.70
144	Cb	19	DA	C5-C6-N1	-5.26	115.07	117.70
145	Cc	19	DA	C5-C6-N6	-5.26	119.49	123.70
150	Ch	25	DC	N3-C4-N4	5.26	121.69	118.00
154	Cr	2	DC	N3-C4-C5	-5.26	119.79	121.90
1	AA	1633	DA	C4-C5-C6	5.26	119.63	117.00
1	AA	2057	DA	C5-C6-N1	-5.26	115.07	117.70
1	AA	2123	DA	C5-C6-N1	-5.26	115.07	117.70
1	AA	3966	DA	C5-C6-N1	-5.26	115.07	117.70
1	AA	4952	DA	C5-C6-N6	-5.26	119.49	123.70
1	AA	5745	DA	C5-C6-N6	-5.26	119.49	123.70
29	AT	46	DA	C5-C6-N1	-5.26	115.07	117.70
31	AV	19	DC	N3-C4-N4	5.26	121.68	118.00
35	AZ	4	DT	C5'-C4'-C3'	5.26	123.57	114.10
70	BF	35	DA	C5-C6-N1	-5.26	115.07	117.70
72	BH	35	DA	C5-C6-N1	-5.26	115.07	117.70
102	Bl	45	DC	N3-C4-N4	5.26	121.68	118.00
114	C4	17	DA	C5-C6-N1	-5.26	115.07	117.70
116	C6	35	DA	C5-C6-N1	-5.26	115.07	117.70
1	AA	131	DC	N3-C4-C5	-5.26	119.80	121.90
1	AA	414	DC	N3-C4-N4	5.26	121.68	118.00
1	AA	810	DA	C5-C6-N6	-5.26	119.49	123.70
1	AA	1227	DC	N3-C4-N4	5.26	121.68	118.00
1	AA	2392	DA	C5-C6-N6	-5.26	119.49	123.70
1	AA	3847	DC	N3-C4-N4	5.26	121.68	118.00
1	AA	3893	DC	N3-C4-N4	5.26	121.68	118.00
1	AA	4060	DA	C5-C6-N6	-5.26	119.49	123.70
1	AA	4099	DA	O4'-C1'-N9	5.26	111.68	108.00
1	AA	4617	DC	N3-C4-N4	5.26	121.68	118.00
1	AA	4631	DA	C5-C6-N6	-5.26	119.49	123.70
1	AA	5598	DC	N3-C4-C5	-5.26	119.80	121.90
1	AA	6266	DA	C5-C6-N1	-5.26	115.07	117.70
1	AA	6569	DC	N3-C4-C5	-5.26	119.80	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	A1	1	DA	P-O3'-C3'	5.26	126.01	119.70
16	AG	41	DC	N3-C4-C5	-5.26	119.80	121.90
18	AI	16	DA	C5-C6-N6	-5.26	119.49	123.70
18	AI	21	DC	N3-C4-C5	-5.26	119.80	121.90
20	AK	59	DA	O4'-C1'-N9	5.26	111.68	108.00
28	AS	15	DA	C5-C6-N1	-5.26	115.07	117.70
32	AW	7	DC	N3-C4-N4	5.26	121.68	118.00
37	Ac	40	DA	C5-C6-N1	-5.26	115.07	117.70
42	Ai	20	DA	C5-C6-N1	-5.26	115.07	117.70
48	Ao	35	DC	N3-C4-C5	-5.26	119.80	121.90
60	B4	40	DC	N3-C4-C5	-5.26	119.80	121.90
74	BJ	39	DC	P-O3'-C3'	5.26	126.01	119.70
80	BP	60	DC	N3-C4-C5	-5.26	119.80	121.90
81	BQ	47	DC	N3-C4-C5	-5.26	119.80	121.90
83	BS	9	DC	N3-C4-N4	5.26	121.68	118.00
83	BS	26	DC	N3-C4-C5	-5.26	119.80	121.90
127	CJ	40	DA	C5-C6-N6	-5.26	119.49	123.70
142	CY	12	DC	N3-C4-C5	-5.26	119.80	121.90
142	CY	40	DA	C5-C6-N1	-5.26	115.07	117.70
143	CZ	35	DA	O4'-C1'-N9	5.26	111.68	108.00
159	Cw	17	DC	C1'-O4'-C4'	-5.26	104.84	110.10
1	AA	485	DA	C5-C6-N6	-5.26	119.49	123.70
1	AA	487	DC	N3-C4-N4	5.26	121.68	118.00
1	AA	1769	DC	N3-C4-N4	5.26	121.68	118.00
1	AA	2602	DG	P-O3'-C3'	5.26	126.01	119.70
1	AA	2719	DA	C1'-O4'-C4'	-5.26	104.84	110.10
1	AA	4823	DA	C5-C6-N6	-5.26	119.49	123.70
1	AA	5770	DA	C5-C6-N1	-5.26	115.07	117.70
1	AA	6011	DA	C5-C6-N1	-5.26	115.07	117.70
1	AA	6655	DC	N3-C4-C5	-5.26	119.80	121.90
2	A0	36	DA	C5-C6-N6	-5.26	119.49	123.70
5	A3	22	DC	C1'-O4'-C4'	-5.26	104.84	110.10
7	A5	32	DC	N3-C4-N4	5.26	121.68	118.00
25	AP	18	DA	C5-C6-N6	-5.26	119.49	123.70
26	AQ	6	DC	N3-C4-N4	5.26	121.68	118.00
32	AW	13	DA	C5-C6-N1	-5.26	115.07	117.70
33	AX	3	DC	N3-C4-C5	-5.26	119.80	121.90
35	AZ	40	DA	C5-C6-N6	-5.26	119.49	123.70
53	Ax	34	DC	N3-C4-C5	-5.26	119.80	121.90
54	Ay	5	DA	C5-C6-N1	-5.26	115.07	117.70
57	B1	47	DA	C5-C6-N1	-5.26	115.07	117.70
60	B4	47	DA	C5-C6-N6	-5.26	119.49	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
72	BH	34	DC	N3-C4-C5	-5.26	119.80	121.90
79	BO	48	DC	N3-C4-C5	-5.26	119.80	121.90
95	Be	6	DC	N3-C4-N4	5.26	121.68	118.00
99	Bi	49	DC	N3-C4-C5	-5.26	119.80	121.90
105	Bo	2	DC	N3-C4-C5	-5.26	119.80	121.90
116	C6	36	DT	P-O5'-C5'	-5.26	112.48	120.90
129	CL	44	DA	C5-C6-N1	-5.26	115.07	117.70
131	CN	4	DA	O4'-C1'-N9	5.26	111.68	108.00
138	CU	18	DC	N3-C4-N4	5.26	121.68	118.00
144	Cb	42	DT	C1'-O4'-C4'	-5.26	104.84	110.10
155	Cs	30	DA	C5-C6-N6	-5.26	119.49	123.70
1	AA	2105	DC	N3-C4-C5	-5.26	119.80	121.90
1	AA	2571	DC	N3-C4-C5	-5.26	119.80	121.90
1	AA	4521	DA	C4-C5-C6	5.26	119.63	117.00
1	AA	5050	DC	N3-C4-C5	-5.26	119.80	121.90
1	AA	6239	DC	N3-C4-C5	-5.26	119.80	121.90
1	AA	7018	DC	N3-C4-C5	-5.26	119.80	121.90
1	AA	7054	DC	N3-C4-N4	5.26	121.68	118.00
37	Ac	11	DA	C5-C6-N1	-5.26	115.07	117.70
39	Af	7	DC	N3-C4-C5	-5.26	119.80	121.90
89	BY	33	DT	O4'-C1'-C2'	-5.26	101.69	105.90
136	CS	45	DA	P-O3'-C3'	5.26	126.01	119.70
1	AA	119	DT	P-O5'-C5'	-5.26	112.49	120.90
1	AA	468	DC	N3-C4-N4	5.26	121.68	118.00
1	AA	872	DC	N3-C4-C5	-5.26	119.80	121.90
1	AA	1982	DA	P-O3'-C3'	5.26	126.01	119.70
1	AA	2054	DC	O4'-C1'-C2'	-5.26	101.69	105.90
1	AA	2284	DA	C5-C6-N1	-5.26	115.07	117.70
1	AA	3667	DA	C5-C6-N6	-5.26	119.49	123.70
1	AA	4126	DC	N3-C4-N4	5.26	121.68	118.00
1	AA	6203	DC	N3-C4-C5	-5.26	119.80	121.90
1	AA	6655	DC	N3-C4-N4	5.26	121.68	118.00
2	A0	33	DA	C5-C6-N1	-5.26	115.07	117.70
6	A4	35	DA	C5-C6-N1	-5.26	115.07	117.70
26	AQ	8	DA	C5-C6-N6	-5.26	119.50	123.70
26	AQ	52	DA	O4'-C1'-N9	5.26	111.68	108.00
32	AW	40	DA	C5-C6-N1	-5.26	115.07	117.70
42	Ai	43	DC	N3-C4-C5	-5.26	119.80	121.90
53	Ax	46	DC	N3-C4-C5	-5.26	119.80	121.90
56	B0	28	DA	C5-C6-N1	-5.26	115.07	117.70
84	BT	21	DC	N3-C4-C5	-5.26	119.80	121.90
86	BV	33	DA	C5-C6-N1	-5.26	115.07	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
104	Bn	44	DC	N3-C4-N4	5.26	121.68	118.00
113	C3	8	DC	N3-C4-N4	5.26	121.68	118.00
114	C4	65	DC	N3-C4-N4	5.26	121.68	118.00
119	CB	35	DA	C5-C6-N1	-5.26	115.07	117.70
123	CF	3	DA	C5-C6-N1	-5.26	115.07	117.70
145	Cc	45	DA	C5-C6-N1	-5.26	115.07	117.70
148	Cf	18	DC	N3-C4-C5	-5.26	119.80	121.90
156	Ct	41	DA	C5-C6-N6	-5.26	119.49	123.70
1	AA	216	DA	C5-C6-N1	-5.25	115.07	117.70
1	AA	226	DA	C4-C5-C6	5.25	119.63	117.00
1	AA	325	DC	N3-C4-C5	-5.25	119.80	121.90
1	AA	2389	DC	N3-C4-C5	-5.25	119.80	121.90
1	AA	2418	DC	N3-C4-C5	-5.25	119.80	121.90
1	AA	2775	DA	C1'-O4'-C4'	-5.25	104.84	110.10
1	AA	2794	DC	N3-C4-N4	5.25	121.68	118.00
1	AA	3438	DC	N3-C4-C5	-5.25	119.80	121.90
1	AA	5923	DA	C5-C6-N6	-5.25	119.50	123.70
1	AA	6049	DC	N3-C4-N4	5.25	121.68	118.00
1	AA	6428	DC	N3-C4-C5	-5.25	119.80	121.90
3	A1	1	DA	O4'-C1'-N9	5.25	111.68	108.00
16	AG	31	DC	N3-C4-N4	5.25	121.68	118.00
96	Bf	38	DA	O4'-C1'-N9	5.25	111.68	108.00
101	Bk	38	DC	N3-C4-N4	5.25	121.68	118.00
109	Bs	35	DC	N3-C4-C5	-5.25	119.80	121.90
111	C1	12	DA	C5-C6-N6	-5.25	119.50	123.70
144	Cb	27	DA	C5-C6-N1	-5.25	115.07	117.70
147	Ce	47	DA	C5-C6-N1	-5.25	115.07	117.70
154	Cr	1	DC	N3-C4-C5	-5.25	119.80	121.90
156	Ct	13	DA	C5-C6-N6	-5.25	119.50	123.70
160	Cx	40	DC	N3-C4-C5	-5.25	119.80	121.90
1	AA	263	DC	N3-C4-N4	5.25	121.68	118.00
1	AA	283	DC	N3-C4-C5	-5.25	119.80	121.90
1	AA	1220	DC	N3-C4-C5	-5.25	119.80	121.90
1	AA	1314	DA	C5-C6-N1	-5.25	115.07	117.70
1	AA	2634	DC	N3-C4-C5	-5.25	119.80	121.90
1	AA	3268	DC	N3-C4-C5	-5.25	119.80	121.90
1	AA	3721	DC	N3-C4-C5	-5.25	119.80	121.90
1	AA	5992	DA	C4-C5-C6	5.25	119.63	117.00
1	AA	6736	DC	N3-C4-N4	5.25	121.68	118.00
23	AN	46	DC	N3-C4-N4	5.25	121.68	118.00
25	AP	10	DC	N3-C4-N4	5.25	121.68	118.00
32	AW	41	DC	N3-C4-C5	-5.25	119.80	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
36	Ab	42	DA	C5-C6-N6	-5.25	119.50	123.70
63	B7	31	DC	N3-C4-C5	-5.25	119.80	121.90
64	B8	23	DC	N3-C4-N4	5.25	121.68	118.00
81	BQ	18	DG	P-O3'-C3'	5.25	126.00	119.70
83	BS	45	DC	N3-C4-N4	5.25	121.68	118.00
86	BV	20	DC	N3-C4-C5	-5.25	119.80	121.90
103	Bm	4	DC	N3-C4-C5	-5.25	119.80	121.90
120	CC	12	DC	N3-C4-C5	-5.25	119.80	121.90
128	CK	27	DA	C5-C6-N6	-5.25	119.50	123.70
140	CW	20	DA	C5-C6-N6	-5.25	119.50	123.70
147	Ce	29	DC	N3-C4-C5	-5.25	119.80	121.90
159	Cw	6	DC	N3-C4-C5	-5.25	119.80	121.90
1	AA	667	DC	N3-C4-C5	-5.25	119.80	121.90
1	AA	940	DA	C5-C6-N1	-5.25	115.07	117.70
1	AA	1911	DC	N3-C4-N4	5.25	121.68	118.00
1	AA	2358	DA	C5-C6-N6	-5.25	119.50	123.70
1	AA	2376	DA	C5-C6-N6	-5.25	119.50	123.70
1	AA	3548	DC	N3-C4-C5	-5.25	119.80	121.90
1	AA	3716	DC	N3-C4-N4	5.25	121.68	118.00
1	AA	4472	DA	C4-C5-C6	5.25	119.63	117.00
1	AA	4959	DT	O4'-C1'-C2'	-5.25	101.70	105.90
1	AA	5231	DA	C5-C6-N6	-5.25	119.50	123.70
1	AA	5304	DA	O4'-C1'-N9	5.25	111.68	108.00
1	AA	6134	DC	N3-C4-C5	-5.25	119.80	121.90
1	AA	7248	DC	N3-C4-C5	-5.25	119.80	121.90
3	A1	39	DA	P-O5'-C5'	-5.25	112.50	120.90
4	A2	33	DC	N3-C4-N4	5.25	121.67	118.00
8	A6	37	DA	C4-C5-C6	5.25	119.62	117.00
18	AI	40	DC	N3-C4-C5	-5.25	119.80	121.90
23	AN	34	DC	N3-C4-C5	-5.25	119.80	121.90
24	AO	29	DA	C5-C6-N6	-5.25	119.50	123.70
44	Ak	12	DA	C5-C6-N1	-5.25	115.08	117.70
52	Aw	13	DA	O4'-C1'-N9	5.25	111.68	108.00
62	B6	26	DC	N3-C4-C5	-5.25	119.80	121.90
79	BO	27	DC	N3-C4-C5	-5.25	119.80	121.90
79	BO	28	DC	N3-C4-N4	5.25	121.68	118.00
90	BZ	35	DA	C5-C6-N6	-5.25	119.50	123.70
104	Bn	18	DA	C5-C6-N1	-5.25	115.07	117.70
126	CI	29	DC	N3-C4-N4	5.25	121.68	118.00
150	Ch	13	DC	N3-C4-N4	5.25	121.67	118.00
1	AA	670	DC	N3-C4-C5	-5.25	119.80	121.90
1	AA	1056	DA	C5-C6-N6	-5.25	119.50	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1859	DA	C5-C6-N1	-5.25	115.08	117.70
1	AA	2499	DA	C5-C6-N6	-5.25	119.50	123.70
1	AA	2542	DC	N3-C4-N4	5.25	121.67	118.00
1	AA	5184	DA	C5-C6-N1	-5.25	115.08	117.70
1	AA	7110	DC	O4'-C1'-N1	5.25	111.67	108.00
17	AH	45	DC	N3-C4-N4	5.25	121.67	118.00
40	Ag	30	DC	N3-C4-C5	-5.25	119.80	121.90
62	B6	3	DA	C4-C5-C6	5.25	119.62	117.00
69	BE	60	DC	N3-C4-C5	-5.25	119.80	121.90
72	BH	29	DC	N3-C4-C5	-5.25	119.80	121.90
83	BS	10	DA	C5-C6-N1	-5.25	115.08	117.70
96	Bf	14	DC	N3-C4-N4	5.25	121.67	118.00
103	Bm	2	DA	C5-C6-N1	-5.25	115.08	117.70
114	C4	49	DC	N3-C4-C5	-5.25	119.80	121.90
158	Cv	38	DT	P-O3'-C3'	5.25	126.00	119.70
1	AA	407	DC	N3-C4-N4	5.25	121.67	118.00
1	AA	578	DC	N3-C4-N4	5.25	121.67	118.00
1	AA	631	DC	N3-C4-N4	5.25	121.67	118.00
1	AA	780	DC	N3-C4-C5	-5.25	119.80	121.90
1	AA	920	DA	C4-C5-C6	5.25	119.62	117.00
1	AA	2107	DC	N3-C4-C5	-5.25	119.80	121.90
1	AA	2426	DC	N3-C4-N4	5.25	121.67	118.00
1	AA	3327	DG	C1'-O4'-C4'	-5.25	104.85	110.10
1	AA	3783	DC	N3-C4-C5	-5.25	119.80	121.90
1	AA	3964	DA	C5-C6-N6	-5.25	119.50	123.70
1	AA	4858	DC	N3-C4-N4	5.25	121.67	118.00
1	AA	5167	DC	N3-C4-C5	-5.25	119.80	121.90
1	AA	5526	DC	C1'-O4'-C4'	-5.25	104.85	110.10
1	AA	5674	DA	C4-C5-C6	5.25	119.62	117.00
1	AA	6115	DA	C5-C6-N6	-5.25	119.50	123.70
1	AA	6427	DA	C5-C6-N6	-5.25	119.50	123.70
1	AA	7005	DC	N3-C4-N4	5.25	121.67	118.00
23	AN	30	DC	N3-C4-C5	-5.25	119.80	121.90
34	AY	16	DC	N3-C4-N4	5.25	121.67	118.00
35	AZ	9	DA	C5-C6-N1	-5.25	115.08	117.70
35	AZ	39	DC	N3-C4-C5	-5.25	119.80	121.90
42	Ai	12	DC	N3-C4-N4	5.25	121.67	118.00
52	Aw	31	DA	C5-C6-N6	-5.25	119.50	123.70
64	B8	9	DA	C5-C6-N6	-5.25	119.50	123.70
72	BH	26	DA	O4'-C1'-N9	5.25	111.67	108.00
90	BZ	10	DC	N3-C4-N4	5.25	121.67	118.00
99	Bi	22	DC	N3-C4-C5	-5.25	119.80	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
99	Bi	29	DC	N3-C4-C5	-5.25	119.80	121.90
107	Bq	50	DA	C5-C6-N1	-5.25	115.08	117.70
145	Cc	30	DA	C5-C6-N6	-5.25	119.50	123.70
150	Ch	35	DC	N3-C4-N4	5.25	121.67	118.00
162	Cz	40	DC	N3-C4-C5	-5.25	119.80	121.90
1	AA	258	DA	C4-C5-C6	5.25	119.62	117.00
1	AA	838	DC	N3-C4-N4	5.25	121.67	118.00
1	AA	1166	DC	N3-C4-N4	5.25	121.67	118.00
1	AA	1585	DC	N3-C4-C5	-5.25	119.80	121.90
1	AA	2535	DC	N3-C4-C5	-5.25	119.80	121.90
1	AA	5134	DA	C5-C6-N6	-5.25	119.50	123.70
1	AA	5568	DT	P-O3'-C3'	5.25	126.00	119.70
1	AA	6521	DC	N3-C4-N4	5.25	121.67	118.00
1	AA	6650	DA	C5-C6-N1	-5.25	115.08	117.70
1	AA	6914	DA	C5-C6-N6	-5.25	119.50	123.70
1	AA	6982	DC	N3-C4-N4	5.25	121.67	118.00
3	A1	37	DG	O4'-C1'-N9	5.25	111.67	108.00
13	AD	19	DC	N3-C4-C5	-5.25	119.80	121.90
19	AJ	27	DC	N3-C4-N4	5.25	121.67	118.00
28	AS	59	DA	C5-C6-N6	-5.25	119.50	123.70
31	AV	11	DC	C1'-O4'-C4'	-5.25	104.85	110.10
39	Af	37	DC	N3-C4-N4	5.25	121.67	118.00
46	Am	35	DA	C5-C6-N1	-5.25	115.08	117.70
68	BD	13	DC	N3-C4-N4	5.25	121.67	118.00
69	BE	41	DC	N3-C4-N4	5.25	121.67	118.00
76	BL	3	DT	P-O5'-C5'	-5.25	112.51	120.90
93	Bc	17	DC	N3-C4-C5	-5.25	119.80	121.90
116	C6	4	DA	C5-C6-N1	-5.25	115.08	117.70
130	CM	29	DA	C5-C6-N1	-5.25	115.08	117.70
148	Cf	11	DA	C5-C6-N6	-5.25	119.50	123.70
149	Cg	35	DC	N3-C4-C5	-5.25	119.80	121.90
156	Ct	7	DC	N3-C4-C5	-5.25	119.80	121.90
1	AA	556	DA	C5-C6-N6	-5.25	119.50	123.70
1	AA	1502	DA	C5-C6-N1	-5.25	115.08	117.70
1	AA	1746	DC	N3-C4-N4	5.25	121.67	118.00
1	AA	1754	DC	N3-C4-N4	5.25	121.67	118.00
1	AA	2399	DT	O4'-C1'-N1	5.25	111.67	108.00
1	AA	2962	DG	O4'-C4'-C3'	-5.25	102.40	104.50
1	AA	3590	DA	C5-C6-N1	-5.25	115.08	117.70
1	AA	4995	DA	C5-C6-N1	-5.25	115.08	117.70
1	AA	6208	DA	C5-C6-N1	-5.25	115.08	117.70
50	Au	3	DC	N3-C4-N4	5.25	121.67	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
61	B5	23	DA	C5-C6-N1	-5.25	115.08	117.70
76	BL	30	DG	C1'-O4'-C4'	-5.25	104.86	110.10
81	BQ	29	DC	N3-C4-N4	5.25	121.67	118.00
114	C4	65	DC	N3-C4-C5	-5.25	119.80	121.90
125	CH	44	DT	P-O3'-C3'	5.25	125.99	119.70
127	CJ	20	DC	N3-C4-C5	-5.25	119.80	121.90
151	Ck	31	DT	P-O5'-C5'	5.25	129.29	120.90
153	Cq	33	DC	N3-C4-C5	-5.25	119.80	121.90
1	AA	276	DA	C5-C6-N6	-5.24	119.50	123.70
1	AA	758	DC	N3-C4-C5	-5.24	119.80	121.90
1	AA	885	DC	N3-C4-C5	-5.24	119.80	121.90
1	AA	916	DA	C5-C6-N1	-5.24	115.08	117.70
1	AA	1877	DC	N3-C4-N4	5.24	121.67	118.00
1	AA	2141	DA	C5-C6-N6	-5.24	119.51	123.70
1	AA	2380	DC	N3-C4-N4	5.24	121.67	118.00
1	AA	3406	DC	N3-C4-C5	-5.24	119.80	121.90
1	AA	3541	DA	P-O3'-C3'	5.24	125.99	119.70
1	AA	4479	DC	N3-C4-N4	5.24	121.67	118.00
1	AA	5526	DC	C3'-C2'-C1'	-5.24	96.21	102.50
1	AA	5605	DA	C5-C6-N1	-5.24	115.08	117.70
1	AA	6892	DT	O4'-C1'-C2'	-5.24	101.70	105.90
11	AB	14	DC	N3-C4-N4	5.24	121.67	118.00
22	AM	36	DC	N3-C4-C5	-5.24	119.80	121.90
22	AM	39	DC	N3-C4-N4	5.24	121.67	118.00
31	AV	19	DC	N3-C4-C5	-5.24	119.80	121.90
36	Ab	35	DA	C5-C6-N1	-5.24	115.08	117.70
37	Ac	32	DA	C5-C6-N6	-5.24	119.51	123.70
57	B1	15	DC	N3-C4-N4	5.24	121.67	118.00
58	B2	27	DA	C5-C6-N6	-5.24	119.51	123.70
59	B3	22	DT	O4'-C1'-N1	5.24	111.67	108.00
95	Be	22	DC	N3-C4-N4	5.24	121.67	118.00
100	Bj	17	DC	N3-C4-C5	-5.24	119.80	121.90
128	CK	11	DA	C5-C6-N1	-5.24	115.08	117.70
135	CR	20	DA	C5-C6-N1	-5.24	115.08	117.70
156	Ct	5	DA	C5-C6-N6	-5.24	119.50	123.70
158	Cv	24	DC	N3-C4-N4	5.24	121.67	118.00
161	Cy	47	DA	C5-C6-N1	-5.24	115.08	117.70
1	AA	1364	DA	C5-C6-N1	-5.24	115.08	117.70
1	AA	2305	DC	N3-C4-C5	-5.24	119.80	121.90
1	AA	2502	DC	N3-C4-C5	-5.24	119.80	121.90
1	AA	3366	DG	O4'-C1'-N9	5.24	111.67	108.00
1	AA	4316	DT	P-O3'-C3'	5.24	125.99	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6845	DC	N3-C4-N4	5.24	121.67	118.00
1	AA	7154	DC	N3-C4-C5	-5.24	119.80	121.90
16	AG	42	DA	C5-C6-N6	-5.24	119.51	123.70
44	Ak	45	DC	O4'-C1'-N1	5.24	111.67	108.00
56	B0	4	DC	N3-C4-C5	-5.24	119.80	121.90
73	BI	12	DC	O4'-C1'-C2'	-5.24	101.71	105.90
74	BJ	32	DC	N3-C4-N4	5.24	121.67	118.00
87	BW	35	DC	N3-C4-C5	-5.24	119.80	121.90
96	Bf	18	DC	C4'-C3'-C2'	-5.24	98.38	103.10
106	Bp	30	DG	C5'-C4'-C3'	5.24	123.53	114.10
117	C7	31	DA	O4'-C1'-N9	5.24	111.67	108.00
135	CR	42	DA	C5-C6-N6	-5.24	119.51	123.70
1	AA	73	DA	C5-C6-N6	-5.24	119.51	123.70
1	AA	296	DC	N3-C4-C5	-5.24	119.80	121.90
1	AA	626	DC	N3-C4-C5	-5.24	119.80	121.90
1	AA	627	DA	C5-C6-N1	-5.24	115.08	117.70
1	AA	911	DC	N3-C4-C5	-5.24	119.80	121.90
1	AA	1186	DC	N3-C4-C5	-5.24	119.80	121.90
1	AA	1326	DC	N3-C4-N4	5.24	121.67	118.00
1	AA	1951	DA	C5-C6-N6	-5.24	119.51	123.70
1	AA	2128	DC	N3-C4-N4	5.24	121.67	118.00
1	AA	2303	DA	C4-C5-C6	5.24	119.62	117.00
1	AA	3535	DC	N3-C4-C5	-5.24	119.80	121.90
1	AA	6389	DC	N3-C4-N4	5.24	121.67	118.00
18	AI	36	DA	C5-C6-N6	-5.24	119.51	123.70
26	AQ	21	DC	N3-C4-N4	5.24	121.67	118.00
27	AR	14	DA	C5-C6-N1	-5.24	115.08	117.70
38	Ad	20	DA	C5-C6-N1	-5.24	115.08	117.70
41	Ah	9	DC	N3-C4-C5	-5.24	119.80	121.90
51	Av	43	DC	N3-C4-C5	-5.24	119.80	121.90
57	B1	9	DA	C5-C6-N1	-5.24	115.08	117.70
58	B2	30	DA	C5-C6-N6	-5.24	119.51	123.70
100	Bj	38	DC	P-O3'-C3'	5.24	125.99	119.70
102	Bl	34	DC	N3-C4-N4	5.24	121.67	118.00
129	CL	6	DA	C5-C6-N6	-5.24	119.51	123.70
145	Cc	24	DC	N3-C4-C5	-5.24	119.80	121.90
150	Ch	46	DC	N3-C4-C5	-5.24	119.80	121.90
152	Cp	40	DC	N3-C4-N4	5.24	121.67	118.00
160	Cx	2	DA	C5-C6-N6	-5.24	119.51	123.70
160	Cx	35	DA	C5-C6-N6	-5.24	119.51	123.70
1	AA	359	DA	C5-C6-N6	-5.24	119.51	123.70
1	AA	1021	DA	C5-C6-N6	-5.24	119.51	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1471	DA	C5-C6-N6	-5.24	119.51	123.70
1	AA	3206	DC	N3-C4-N4	5.24	121.67	118.00
1	AA	3394	DA	C5-C6-N1	-5.24	115.08	117.70
1	AA	3504	DA	C5-C6-N1	-5.24	115.08	117.70
1	AA	3507	DC	N3-C4-C5	-5.24	119.81	121.90
1	AA	3598	DA	C5-C6-N1	-5.24	115.08	117.70
1	AA	3606	DA	C5-C6-N1	-5.24	115.08	117.70
1	AA	3830	DC	N3-C4-C5	-5.24	119.81	121.90
1	AA	4511	DA	C5-C6-N6	-5.24	119.51	123.70
1	AA	4566	DC	N3-C4-N4	5.24	121.67	118.00
1	AA	4865	DG	O4'-C4'-C3'	-5.24	102.41	104.50
1	AA	4968	DC	N3-C4-C5	-5.24	119.81	121.90
1	AA	6174	DA	C5-C6-N1	-5.24	115.08	117.70
1	AA	6533	DC	N3-C4-N4	5.24	121.67	118.00
1	AA	6975	DA	P-O3'-C3'	5.24	125.99	119.70
1	AA	7060	DC	N3-C4-N4	5.24	121.67	118.00
1	AA	7247	DC	N3-C4-C5	-5.24	119.81	121.90
4	A2	46	DA	C5-C6-N1	-5.24	115.08	117.70
9	A7	37	DA	C5-C6-N6	-5.24	119.51	123.70
13	AD	6	DC	N3-C4-C5	-5.24	119.81	121.90
40	Ag	48	DA	C5-C6-N1	-5.24	115.08	117.70
45	Al	6	DC	O4'-C1'-N1	5.24	111.67	108.00
46	Am	44	DC	N3-C4-N4	5.24	121.67	118.00
74	BJ	53	DA	C5-C6-N1	-5.24	115.08	117.70
87	BW	21	DA	C5-C6-N6	-5.24	119.51	123.70
94	Bd	51	DC	O4'-C1'-C2'	-5.24	101.71	105.90
95	Be	48	DG	O4'-C1'-C2'	-5.24	101.71	105.90
105	Bo	9	DC	N3-C4-N4	5.24	121.67	118.00
112	C2	25	DC	N3-C4-N4	5.24	121.67	118.00
135	CR	19	DA	O4'-C1'-N9	5.24	111.67	108.00
150	Ch	6	DC	N3-C4-N4	5.24	121.67	118.00
159	Cw	6	DC	N3-C4-N4	5.24	121.67	118.00
162	Cz	32	DC	O4'-C1'-C2'	-5.24	101.71	105.90
1	AA	424	DC	N3-C4-C5	-5.24	119.81	121.90
1	AA	2535	DC	N3-C4-N4	5.24	121.67	118.00
1	AA	3892	DC	N3-C4-C5	-5.24	119.81	121.90
4	A2	2	DA	C5-C6-N6	-5.24	119.51	123.70
14	AE	35	DT	O4'-C1'-N1	5.24	111.67	108.00
62	B6	26	DC	N3-C4-N4	5.24	121.67	118.00
78	BN	19	DC	N3-C4-C5	-5.24	119.81	121.90
81	BQ	5	DA	C5-C6-N1	-5.24	115.08	117.70
91	Ba	18	DC	N3-C4-N4	5.24	121.67	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
154	Cr	30	DA	C5-C6-N1	-5.24	115.08	117.70
157	Cu	40	DT	P-O5'-C5'	-5.24	112.52	120.90
1	AA	590	DA	C1'-O4'-C4'	-5.24	104.86	110.10
1	AA	837	DA	C5-C6-N1	-5.24	115.08	117.70
1	AA	911	DC	N3-C4-N4	5.24	121.67	118.00
1	AA	949	DC	P-O3'-C3'	5.24	125.98	119.70
1	AA	1194	DC	N3-C4-N4	5.24	121.66	118.00
1	AA	1634	DC	O4'-C1'-C2'	-5.24	101.71	105.90
1	AA	2188	DC	N3-C4-N4	5.24	121.67	118.00
1	AA	2340	DC	N3-C4-C5	-5.24	119.81	121.90
1	AA	3100	DA	C5-C6-N6	-5.24	119.51	123.70
1	AA	3349	DA	C5-C6-N1	-5.24	115.08	117.70
1	AA	3929	DA	C5-C6-N1	-5.24	115.08	117.70
1	AA	4278	DC	N3-C4-N4	5.24	121.66	118.00
1	AA	6953	DA	C5-C6-N1	-5.24	115.08	117.70
1	AA	7078	DC	N3-C4-N4	5.24	121.67	118.00
1	AA	7148	DC	N3-C4-C5	-5.24	119.81	121.90
8	A6	9	DA	C5-C6-N1	-5.24	115.08	117.70
8	A6	18	DA	C5-C6-N1	-5.24	115.08	117.70
15	AF	5	DA	P-O3'-C3'	5.24	125.98	119.70
22	AM	10	DA	C5-C6-N6	-5.24	119.51	123.70
29	AT	9	DT	P-O5'-C5'	-5.24	112.52	120.90
33	AX	34	DC	N3-C4-C5	-5.24	119.81	121.90
36	Ab	39	DC	N3-C4-N4	5.24	121.66	118.00
49	As	14	DA	C5-C6-N1	-5.24	115.08	117.70
50	Au	18	DC	N3-C4-C5	-5.24	119.81	121.90
56	B0	35	DA	C5-C6-N1	-5.24	115.08	117.70
68	BD	5	DA	C5-C6-N1	-5.24	115.08	117.70
73	BI	7	DC	N3-C4-N4	5.24	121.67	118.00
75	BK	25	DC	N3-C4-C5	-5.24	119.81	121.90
89	BY	9	DC	N3-C4-N4	5.24	121.66	118.00
108	Br	47	DT	C1'-O4'-C4'	-5.24	104.86	110.10
129	CL	45	DC	N3-C4-C5	-5.24	119.81	121.90
133	CP	26	DA	C5-C6-N1	-5.24	115.08	117.70
134	CQ	18	DC	N3-C4-C5	-5.24	119.81	121.90
139	CV	21	DA	C5-C6-N1	-5.24	115.08	117.70
140	CW	20	DA	C5-C6-N1	-5.24	115.08	117.70
143	CZ	26	DC	N3-C4-N4	5.24	121.67	118.00
151	Ck	5	DA	C5-C6-N1	-5.24	115.08	117.70
152	Cp	46	DA	O4'-C1'-C2'	-5.24	101.71	105.90
157	Cu	60	DA	C5-C6-N6	-5.24	119.51	123.70
1	AA	1525	DA	C5-C6-N1	-5.23	115.08	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2401	DC	N3-C4-N4	5.23	121.66	118.00
1	AA	5249	DA	C5-C6-N1	-5.23	115.08	117.70
1	AA	6314	DC	N3-C4-C5	-5.23	119.81	121.90
1	AA	6862	DC	N3-C4-N4	5.23	121.66	118.00
4	A2	32	DA	C5-C6-N1	-5.23	115.08	117.70
5	A3	24	DC	N3-C4-N4	5.23	121.66	118.00
13	AD	22	DA	C5-C6-N6	-5.23	119.51	123.70
29	AT	14	DA	C5-C6-N1	-5.23	115.08	117.70
57	B1	34	DC	N3-C4-C5	-5.23	119.81	121.90
69	BE	9	DC	N3-C4-C5	-5.23	119.81	121.90
123	CF	2	DC	N3-C4-C5	-5.23	119.81	121.90
1	AA	264	DC	N3-C4-N4	5.23	121.66	118.00
1	AA	1179	DC	N3-C4-C5	-5.23	119.81	121.90
1	AA	2291	DA	C5-C6-N1	-5.23	115.08	117.70
1	AA	2437	DC	N3-C4-C5	-5.23	119.81	121.90
1	AA	3209	DG	P-O3'-C3'	5.23	125.98	119.70
1	AA	3244	DA	C5-C6-N1	-5.23	115.08	117.70
1	AA	3650	DC	N3-C4-C5	-5.23	119.81	121.90
1	AA	4736	DA	C5-C6-N1	-5.23	115.08	117.70
1	AA	4860	DA	C5-C6-N1	-5.23	115.08	117.70
1	AA	4996	DC	N3-C4-C5	-5.23	119.81	121.90
1	AA	6782	DC	N3-C4-C5	-5.23	119.81	121.90
25	AP	32	DT	P-O3'-C3'	5.23	125.98	119.70
42	Ai	37	DG	P-O3'-C3'	5.23	125.98	119.70
46	Am	7	DC	N3-C4-C5	-5.23	119.81	121.90
87	BW	50	DC	N3-C4-C5	-5.23	119.81	121.90
94	Bd	15	DC	N3-C4-N4	5.23	121.66	118.00
96	Bf	10	DC	N3-C4-C5	-5.23	119.81	121.90
107	Bq	51	DA	C5-C6-N1	-5.23	115.08	117.70
111	C1	9	DA	C5-C6-N6	-5.23	119.51	123.70
141	CX	17	DC	N3-C4-C5	-5.23	119.81	121.90
142	CY	36	DC	N3-C4-N4	5.23	121.66	118.00
147	Ce	51	DC	O4'-C1'-N1	5.23	111.66	108.00
156	Ct	17	DA	C5-C6-N1	-5.23	115.08	117.70
1	AA	990	DA	P-O3'-C3'	5.23	125.98	119.70
1	AA	1101	DA	C4-C5-C6	5.23	119.61	117.00
1	AA	1386	DA	C4-C5-C6	5.23	119.61	117.00
1	AA	2281	DA	C5-C6-N1	-5.23	115.08	117.70
1	AA	4559	DC	N3-C4-C5	-5.23	119.81	121.90
1	AA	5561	DC	N3-C4-C5	-5.23	119.81	121.90
1	AA	6116	DA	C5-C6-N6	-5.23	119.52	123.70
1	AA	6869	DA	O4'-C1'-N9	5.23	111.66	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	A2	14	DA	P-O3'-C3'	5.23	125.98	119.70
23	AN	10	DC	N3-C4-C5	-5.23	119.81	121.90
31	AV	33	DC	N3-C4-C5	-5.23	119.81	121.90
31	AV	46	DC	N3-C4-C5	-5.23	119.81	121.90
34	AY	15	DC	N3-C4-C5	-5.23	119.81	121.90
42	Ai	13	DA	C5-C6-N6	-5.23	119.52	123.70
60	B4	42	DT	C1'-O4'-C4'	-5.23	104.87	110.10
105	Bo	37	DC	O4'-C1'-C2'	-5.23	101.72	105.90
122	CE	39	DC	N3-C4-C5	-5.23	119.81	121.90
126	CI	4	DC	N3-C4-N4	5.23	121.66	118.00
130	CM	35	DC	O4'-C1'-N1	5.23	111.66	108.00
145	Cc	49	DC	N3-C4-C5	-5.23	119.81	121.90
154	Cr	42	DG	O4'-C1'-N9	5.23	111.66	108.00
162	Cz	28	DA	C5-C6-N1	-5.23	115.08	117.70
1	AA	1300	DC	N3-C4-C5	-5.23	119.81	121.90
1	AA	1321	DC	N3-C4-C5	-5.23	119.81	121.90
1	AA	1826	DC	N3-C4-C5	-5.23	119.81	121.90
1	AA	2021	DA	C5-C6-N1	-5.23	115.08	117.70
1	AA	2345	DA	C5-C6-N1	-5.23	115.08	117.70
1	AA	4975	DA	C5-C6-N1	-5.23	115.09	117.70
1	AA	5383	DA	C5-C6-N6	-5.23	119.52	123.70
1	AA	5698	DA	C4-C5-C6	5.23	119.61	117.00
41	Ah	4	DC	N3-C4-C5	-5.23	119.81	121.90
129	CL	29	DA	C5-C6-N6	-5.23	119.52	123.70
130	CM	19	DC	O4'-C1'-C2'	-5.23	101.72	105.90
1	AA	249	DA	C5-C6-N1	-5.23	115.09	117.70
1	AA	259	DC	N3-C4-C5	-5.23	119.81	121.90
1	AA	809	DC	N3-C4-C5	-5.23	119.81	121.90
1	AA	831	DC	N3-C4-C5	-5.23	119.81	121.90
1	AA	954	DC	N3-C4-N4	5.23	121.66	118.00
1	AA	1382	DA	C5-C6-N1	-5.23	115.09	117.70
1	AA	3471	DA	C5-C6-N6	-5.23	119.52	123.70
1	AA	4338	DG	O4'-C1'-N9	5.23	111.66	108.00
1	AA	4375	DA	C5-C6-N1	-5.23	115.09	117.70
1	AA	5371	DA	C5-C6-N1	-5.23	115.09	117.70
1	AA	5685	DC	N3-C4-C5	-5.23	119.81	121.90
1	AA	6876	DA	C5-C6-N1	-5.23	115.09	117.70
9	A7	41	DC	N3-C4-C5	-5.23	119.81	121.90
16	AG	33	DC	N3-C4-N4	5.23	121.66	118.00
18	AI	32	DC	N3-C4-C5	-5.23	119.81	121.90
36	Ab	42	DA	C5-C6-N1	-5.23	115.09	117.70
40	Ag	12	DA	C5-C6-N1	-5.23	115.09	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
61	B5	1	DA	C5-C6-N6	-5.23	119.52	123.70
67	BC	7	DC	N3-C4-C5	-5.23	119.81	121.90
67	BC	30	DC	N3-C4-C5	-5.23	119.81	121.90
70	BF	29	DA	C5-C6-N1	-5.23	115.09	117.70
75	BK	15	DA	C5-C6-N6	-5.23	119.52	123.70
92	Bb	4	DA	O4'-C1'-N9	5.23	111.66	108.00
95	Be	35	DC	N3-C4-C5	-5.23	119.81	121.90
102	Bl	7	DA	C5-C6-N6	-5.23	119.52	123.70
126	CI	8	DC	N3-C4-N4	5.23	121.66	118.00
157	Cu	43	DA	C5-C6-N1	-5.23	115.09	117.70
1	AA	174	DA	C5-C6-N1	-5.23	115.09	117.70
1	AA	4844	DA	C5-C6-N1	-5.23	115.09	117.70
1	AA	6019	DC	N3-C4-N4	5.23	121.66	118.00
7	A5	15	DA	C5-C6-N1	-5.23	115.09	117.70
9	A7	18	DA	C5-C6-N1	-5.23	115.09	117.70
13	AD	37	DA	C5-C6-N1	-5.23	115.09	117.70
20	AK	39	DC	N3-C4-C5	-5.23	119.81	121.90
39	Af	38	DC	O4'-C1'-C2'	-5.23	101.72	105.90
84	BT	41	DC	N3-C4-N4	5.23	121.66	118.00
99	Bi	4	DA	C5-C6-N6	-5.23	119.52	123.70
99	Bi	18	DA	C5-C6-N1	-5.23	115.09	117.70
128	CK	16	DA	O4'-C1'-C2'	-5.23	101.72	105.90
1	AA	281	DA	C5-C6-N1	-5.22	115.09	117.70
1	AA	955	DG	OP1-P-O3'	5.22	116.70	105.20
1	AA	1102	DA	C5-C6-N6	-5.22	119.52	123.70
1	AA	1111	DC	N3-C4-N4	5.22	121.66	118.00
1	AA	1204	DC	N3-C4-N4	5.22	121.66	118.00
1	AA	1371	DT	O4'-C1'-C2'	-5.22	101.72	105.90
1	AA	1973	DC	N3-C4-N4	5.22	121.66	118.00
1	AA	2018	DT	P-O3'-C3'	5.22	125.97	119.70
1	AA	2309	DC	N3-C4-C5	-5.22	119.81	121.90
1	AA	3997	DC	N3-C4-C5	-5.22	119.81	121.90
1	AA	4186	DC	O4'-C1'-N1	5.22	111.66	108.00
1	AA	4312	DC	N3-C4-C5	-5.22	119.81	121.90
1	AA	4557	DC	N3-C4-N4	5.22	121.66	118.00
1	AA	4851	DA	C5-C6-N1	-5.22	115.09	117.70
1	AA	5148	DC	O4'-C1'-C2'	-5.22	101.72	105.90
1	AA	5390	DA	C5-C6-N1	-5.22	115.09	117.70
1	AA	5755	DA	O4'-C1'-N9	5.22	111.66	108.00
1	AA	6080	DA	C1'-O4'-C4'	-5.22	104.88	110.10
1	AA	6311	DT	O4'-C1'-C2'	-5.22	101.72	105.90
1	AA	6866	DC	N3-C4-C5	-5.22	119.81	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
20	AK	29	DG	P-O5'-C5'	-5.22	112.54	120.90
20	AK	56	DA	C5-C6-N1	-5.22	115.09	117.70
24	AO	9	DC	P-O5'-C5'	-5.22	112.54	120.90
24	AO	11	DC	P-O3'-C3'	5.22	125.97	119.70
61	B5	9	DC	N3-C4-C5	-5.22	119.81	121.90
66	BB	41	DC	N3-C4-N4	5.22	121.66	118.00
73	BI	25	DA	C5-C6-N1	-5.22	115.09	117.70
131	CN	14	DG	O4'-C1'-C2'	-5.22	101.72	105.90
140	CW	31	DT	O4'-C4'-C3'	-5.22	102.41	104.50
156	Ct	43	DC	N3-C4-C5	-5.22	119.81	121.90
158	Cv	33	DC	N3-C4-C5	-5.22	119.81	121.90
1	AA	182	DC	N3-C4-N4	5.22	121.66	118.00
1	AA	287	DC	N3-C4-C5	-5.22	119.81	121.90
1	AA	557	DC	N3-C4-N4	5.22	121.66	118.00
1	AA	1407	DA	C5-C6-N6	-5.22	119.52	123.70
1	AA	1573	DA	O4'-C1'-C2'	-5.22	101.72	105.90
1	AA	1948	DC	N3-C4-N4	5.22	121.66	118.00
1	AA	2646	DC	N3-C4-N4	5.22	121.66	118.00
1	AA	3780	DC	N3-C4-C5	-5.22	119.81	121.90
1	AA	4135	DG	P-O3'-C3'	5.22	125.97	119.70
1	AA	4269	DA	C5-C6-N1	-5.22	115.09	117.70
1	AA	4346	DA	C5-C6-N6	-5.22	119.52	123.70
1	AA	4409	DC	N3-C4-N4	5.22	121.66	118.00
1	AA	6840	DA	C5-C6-N1	-5.22	115.09	117.70
1	AA	7218	DT	P-O3'-C3'	5.22	125.97	119.70
4	A2	17	DC	N3-C4-N4	5.22	121.66	118.00
24	AO	19	DC	N3-C4-N4	5.22	121.66	118.00
29	AT	20	DC	N3-C4-C5	-5.22	119.81	121.90
38	Ad	39	DC	N3-C4-C5	-5.22	119.81	121.90
38	Ad	40	DC	O4'-C1'-C2'	-5.22	101.72	105.90
57	B1	34	DC	N3-C4-N4	5.22	121.66	118.00
75	BK	7	DC	N3-C4-N4	5.22	121.66	118.00
82	BR	33	DA	C5-C6-N6	-5.22	119.52	123.70
84	BT	37	DT	O4'-C1'-N1	5.22	111.66	108.00
97	Bg	4	DG	O4'-C1'-C2'	-5.22	101.72	105.90
101	Bk	38	DC	N3-C4-C5	-5.22	119.81	121.90
126	CI	13	DA	C5-C6-N1	-5.22	115.09	117.70
138	CU	13	DC	N3-C4-N4	5.22	121.66	118.00
146	Cd	36	DA	C5-C6-N1	-5.22	115.09	117.70
1	AA	1951	DA	C5-C6-N1	-5.22	115.09	117.70
1	AA	3016	DA	C5-C6-N6	-5.22	119.52	123.70
1	AA	3418	DA	C5-C6-N1	-5.22	115.09	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3897	DG	P-O5'-C5'	-5.22	112.55	120.90
1	AA	4457	DA	C5-C6-N6	-5.22	119.52	123.70
27	AR	36	DC	N3-C4-C5	-5.22	119.81	121.90
50	Au	15	DC	N3-C4-C5	-5.22	119.81	121.90
61	B5	38	DA	C5-C6-N6	-5.22	119.52	123.70
88	BX	14	DG	C4'-C3'-C2'	-5.22	98.40	103.10
119	CB	8	DA	O4'-C4'-C3'	-5.22	102.41	104.50
133	CP	18	DC	N3-C4-N4	5.22	121.66	118.00
143	CZ	42	DC	N3-C4-N4	5.22	121.66	118.00
1	AA	3	DA	C5-C6-N1	-5.22	115.09	117.70
1	AA	605	DC	N3-C4-C5	-5.22	119.81	121.90
1	AA	606	DA	C5-C6-N6	-5.22	119.52	123.70
1	AA	1546	DA	C5-C6-N1	-5.22	115.09	117.70
1	AA	1732	DA	C5-C6-N1	-5.22	115.09	117.70
1	AA	2147	DA	C5-C6-N1	-5.22	115.09	117.70
1	AA	2676	DC	N3-C4-N4	5.22	121.65	118.00
1	AA	3201	DA	C5-C6-N1	-5.22	115.09	117.70
1	AA	3511	DA	C5-C6-N6	-5.22	119.52	123.70
1	AA	4750	DA	C5-C6-N1	-5.22	115.09	117.70
1	AA	4835	DC	N3-C4-C5	-5.22	119.81	121.90
1	AA	4885	DC	N3-C4-C5	-5.22	119.81	121.90
1	AA	4890	DA	C5-C6-N6	-5.22	119.52	123.70
1	AA	4911	DC	N3-C4-C5	-5.22	119.81	121.90
1	AA	5159	DC	N3-C4-N4	5.22	121.65	118.00
1	AA	6041	DA	O4'-C4'-C3'	-5.22	102.41	104.50
1	AA	6172	DC	O4'-C1'-C2'	-5.22	101.72	105.90
1	AA	6172	DC	O4'-C1'-N1	5.22	111.65	108.00
1	AA	6282	DC	O4'-C1'-C2'	-5.22	101.72	105.90
18	AI	31	DC	N3-C4-C5	-5.22	119.81	121.90
27	AR	9	DC	N3-C4-C5	-5.22	119.81	121.90
32	AW	50	DA	C5-C6-N6	-5.22	119.53	123.70
35	AZ	43	DC	N3-C4-N4	5.22	121.65	118.00
46	Am	3	DA	C5-C6-N1	-5.22	115.09	117.70
46	Am	33	DA	C5-C6-N1	-5.22	115.09	117.70
51	Av	36	DA	C5-C6-N1	-5.22	115.09	117.70
62	B6	10	DC	N3-C4-N4	5.22	121.65	118.00
67	BC	9	DA	C5-C6-N1	-5.22	115.09	117.70
69	BE	35	DT	P-O3'-C3'	5.22	125.96	119.70
69	BE	58	DA	C5-C6-N1	-5.22	115.09	117.70
70	BF	1	DC	N3-C4-N4	5.22	121.65	118.00
70	BF	40	DA	C4-C5-C6	5.22	119.61	117.00
76	BL	31	DC	N3-C4-C5	-5.22	119.81	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
82	BR	62	DA	C5-C6-N1	-5.22	115.09	117.70
101	Bk	24	DA	C5-C6-N6	-5.22	119.53	123.70
102	Bl	29	DA	C5-C6-N1	-5.22	115.09	117.70
117	C7	37	DA	C5-C6-N1	-5.22	115.09	117.70
118	C8	40	DA	C5-C6-N1	-5.22	115.09	117.70
132	CO	29	DA	C5-C6-N1	-5.22	115.09	117.70
133	CP	7	DG	P-O3'-C3'	5.22	125.96	119.70
138	CU	1	DA	C5-C6-N1	-5.22	115.09	117.70
152	Cp	18	DA	C5-C6-N1	-5.22	115.09	117.70
154	Cr	36	DA	C5-C6-N1	-5.22	115.09	117.70
157	Cu	2	DA	C5-C6-N6	-5.22	119.53	123.70
158	Cv	29	DC	N3-C4-N4	5.22	121.65	118.00
1	AA	1443	DA	C5-C6-N1	-5.22	115.09	117.70
1	AA	6056	DC	C1'-O4'-C4'	-5.22	104.88	110.10
1	AA	6359	DA	C5-C6-N1	-5.22	115.09	117.70
24	AO	7	DA	C4-C5-C6	5.22	119.61	117.00
37	Ac	29	DC	N3-C4-C5	-5.22	119.81	121.90
52	Aw	26	DC	O4'-C4'-C3'	-5.22	102.41	104.50
68	BD	12	DA	C5-C6-N1	-5.22	115.09	117.70
71	BG	33	DC	N3-C4-C5	-5.22	119.81	121.90
86	BV	27	DA	C5-C6-N1	-5.22	115.09	117.70
118	C8	43	DA	C5-C6-N6	-5.22	119.53	123.70
128	CK	11	DA	C5-C6-N6	-5.22	119.53	123.70
159	Cw	28	DA	C5-C6-N1	-5.22	115.09	117.70
162	Cz	15	DC	N3-C4-N4	5.22	121.65	118.00
1	AA	400	DC	N3-C4-N4	5.22	121.65	118.00
1	AA	415	DT	P-O3'-C3'	5.22	125.96	119.70
1	AA	695	DA	C5-C6-N6	-5.22	119.53	123.70
1	AA	1695	DA	C5-C6-N1	-5.22	115.09	117.70
1	AA	1994	DC	P-O3'-C3'	5.22	125.96	119.70
1	AA	3445	DA	P-O3'-C3'	5.22	125.96	119.70
1	AA	3654	DC	P-O5'-C5'	-5.22	112.55	120.90
1	AA	4109	DC	N3-C4-N4	5.22	121.65	118.00
1	AA	4840	DC	N3-C4-C5	-5.22	119.81	121.90
1	AA	6780	DG	O4'-C1'-C2'	-5.22	101.73	105.90
6	A4	1	DA	C5-C6-N6	-5.22	119.53	123.70
21	AL	34	DC	N3-C4-N4	5.22	121.65	118.00
31	AV	43	DA	C5-C6-N1	-5.22	115.09	117.70
31	AV	49	DA	C5-C6-N6	-5.22	119.53	123.70
49	As	40	DC	O4'-C1'-C2'	-5.22	101.73	105.90
62	B6	12	DA	C5-C6-N1	-5.22	115.09	117.70
69	BE	27	DC	N3-C4-C5	-5.22	119.81	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
122	CE	33	DA	C5-C6-N6	-5.22	119.53	123.70
141	CX	2	DC	N3-C4-C5	-5.22	119.81	121.90
142	CY	8	DA	C5-C6-N6	-5.22	119.53	123.70
145	Cc	60	DC	N3-C4-C5	-5.22	119.81	121.90
151	Ck	8	DC	N3-C4-N4	5.22	121.65	118.00
1	AA	249	DA	C5-C6-N6	-5.21	119.53	123.70
1	AA	606	DA	C5-C6-N1	-5.21	115.09	117.70
1	AA	698	DC	N3-C4-N4	5.21	121.65	118.00
1	AA	950	DC	N3-C4-N4	5.21	121.65	118.00
1	AA	1784	DA	C5-C6-N1	-5.21	115.09	117.70
1	AA	2267	DC	N3-C4-C5	-5.21	119.81	121.90
1	AA	2472	DA	C5-C6-N1	-5.21	115.09	117.70
1	AA	3439	DC	N3-C4-N4	5.21	121.65	118.00
1	AA	3453	DA	C5-C6-N6	-5.21	119.53	123.70
1	AA	4090	DC	O4'-C1'-N1	5.21	111.65	108.00
1	AA	4263	DA	C5-C6-N1	-5.21	115.09	117.70
1	AA	6451	DT	P-O3'-C3'	5.21	125.96	119.70
1	AA	7201	DC	N3-C4-N4	5.21	121.65	118.00
11	AB	23	DC	N3-C4-C5	-5.21	119.81	121.90
18	AI	25	DA	C5-C6-N1	-5.21	115.09	117.70
33	AX	35	DA	C4-C5-C6	5.21	119.61	117.00
37	Ac	37	DC	N3-C4-N4	5.21	121.65	118.00
40	Ag	21	DC	N3-C4-N4	5.21	121.65	118.00
43	Aj	3	DA	C5-C6-N6	-5.21	119.53	123.70
47	An	38	DC	N3-C4-N4	5.21	121.65	118.00
52	Aw	17	DA	C5-C6-N1	-5.21	115.09	117.70
57	B1	15	DC	N3-C4-C5	-5.21	119.81	121.90
61	B5	12	DC	N3-C4-C5	-5.21	119.81	121.90
65	B9	47	DA	C5-C6-N6	-5.21	119.53	123.70
74	BJ	23	DC	N3-C4-C5	-5.21	119.81	121.90
89	BY	21	DA	C5-C6-N6	-5.21	119.53	123.70
92	Bb	17	DC	N3-C4-N4	5.21	121.65	118.00
96	Bf	14	DC	N3-C4-C5	-5.21	119.81	121.90
99	Bi	35	DC	N3-C4-N4	5.21	121.65	118.00
102	Bl	48	DT	O4'-C4'-C3'	-5.21	102.42	104.50
138	CU	22	DC	N3-C4-C5	-5.21	119.81	121.90
1	AA	1053	DA	C1'-O4'-C4'	-5.21	104.89	110.10
1	AA	1074	DC	N3-C4-C5	-5.21	119.81	121.90
1	AA	2518	DC	N3-C4-N4	5.21	121.65	118.00
1	AA	4198	DC	O4'-C1'-C2'	-5.21	101.73	105.90
1	AA	5766	DC	N3-C4-C5	-5.21	119.81	121.90
23	AN	16	DC	N3-C4-C5	-5.21	119.81	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	AZ	38	DC	N3-C4-C5	-5.21	119.81	121.90
37	Ac	34	DA	C5-C6-N6	-5.21	119.53	123.70
71	BG	13	DC	N3-C4-C5	-5.21	119.81	121.90
114	C4	21	DC	N3-C4-C5	-5.21	119.81	121.90
119	CB	38	DA	C5-C6-N6	-5.21	119.53	123.70
126	CI	1	DA	O4'-C1'-C2'	-5.21	101.73	105.90
135	CR	40	DA	C5-C6-N1	-5.21	115.09	117.70
140	CW	15	DG	P-O3'-C3'	5.21	125.96	119.70
1	AA	562	DC	N3-C4-C5	-5.21	119.81	121.90
1	AA	2010	DA	C5-C6-N1	-5.21	115.09	117.70
1	AA	2275	DC	N3-C4-C5	-5.21	119.81	121.90
1	AA	3146	DC	N3-C4-N4	5.21	121.65	118.00
1	AA	3897	DG	C1'-O4'-C4'	-5.21	104.89	110.10
1	AA	4031	DC	N3-C4-N4	5.21	121.65	118.00
1	AA	4526	DA	P-O3'-C3'	5.21	125.95	119.70
1	AA	5527	DC	N3-C4-N4	5.21	121.65	118.00
1	AA	5596	DA	C5-C6-N1	-5.21	115.09	117.70
1	AA	6715	DA	C5-C6-N1	-5.21	115.09	117.70
19	AJ	7	DC	N3-C4-C5	-5.21	119.81	121.90
28	AS	27	DA	C5-C6-N1	-5.21	115.09	117.70
36	Ab	37	DT	O4'-C1'-N1	5.21	111.65	108.00
63	B7	34	DG	N3-C2-N2	5.21	123.55	119.90
67	BC	4	DC	N3-C4-N4	5.21	121.65	118.00
73	BI	9	DA	P-O3'-C3'	5.21	125.95	119.70
73	BI	41	DT	O4'-C1'-C2'	-5.21	101.73	105.90
83	BS	41	DA	C5-C6-N6	-5.21	119.53	123.70
92	Bb	37	DC	N3-C4-C5	-5.21	119.81	121.90
94	Bd	12	DC	N3-C4-N4	5.21	121.65	118.00
97	Bg	38	DC	N3-C4-C5	-5.21	119.81	121.90
148	Cf	48	DT	C1'-O4'-C4'	-5.21	104.89	110.10
149	Cg	10	DA	C5-C6-N1	-5.21	115.09	117.70
149	Cg	39	DC	N3-C4-N4	5.21	121.65	118.00
154	Cr	3	DA	C5-C6-N6	-5.21	119.53	123.70
1	AA	1256	DA	P-O3'-C3'	5.21	125.95	119.70
1	AA	1621	DC	N3-C4-C5	-5.21	119.82	121.90
1	AA	2416	DC	N3-C4-C5	-5.21	119.82	121.90
1	AA	2943	DA	C5-C6-N1	-5.21	115.09	117.70
1	AA	4807	DC	N3-C4-C5	-5.21	119.82	121.90
1	AA	4847	DC	N3-C4-C5	-5.21	119.82	121.90
1	AA	5209	DC	N3-C4-C5	-5.21	119.82	121.90
1	AA	5552	DC	N3-C4-C5	-5.21	119.82	121.90
1	AA	5927	DC	N3-C4-C5	-5.21	119.82	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6679	DA	C5-C6-N1	-5.21	115.09	117.70
60	B4	32	DC	N3-C4-C5	-5.21	119.82	121.90
64	B8	7	DC	O4'-C1'-N1	5.21	111.65	108.00
84	BT	17	DT	O4'-C1'-N1	5.21	111.65	108.00
98	Bh	45	DT	P-O3'-C3'	-5.21	113.45	119.70
127	CJ	58	DA	C5-C6-N6	-5.21	119.53	123.70
146	Cd	9	DC	N3-C4-N4	5.21	121.65	118.00
147	Ce	26	DC	N3-C4-N4	5.21	121.65	118.00
155	Cs	45	DC	N3-C4-C5	-5.21	119.82	121.90
1	AA	10	DG	P-O3'-C3'	5.21	125.95	119.70
1	AA	621	DC	N3-C4-C5	-5.21	119.82	121.90
1	AA	941	DC	N3-C4-C5	-5.21	119.82	121.90
1	AA	2377	DA	C5-C6-N1	-5.21	115.09	117.70
1	AA	2451	DC	N3-C4-C5	-5.21	119.82	121.90
1	AA	2856	DC	N3-C4-C5	-5.21	119.82	121.90
1	AA	3101	DA	C5-C6-N1	-5.21	115.10	117.70
1	AA	3531	DC	N3-C4-N4	5.21	121.64	118.00
1	AA	5499	DG	O4'-C1'-N9	5.21	111.65	108.00
1	AA	6921	DT	P-O3'-C3'	5.21	125.95	119.70
2	A0	28	DC	N3-C4-N4	5.21	121.65	118.00
3	A1	9	DT	P-O3'-C3'	5.21	125.95	119.70
3	A1	20	DC	N3-C4-N4	5.21	121.64	118.00
3	A1	34	DG	C8-N9-C1'	-5.21	120.23	127.00
17	AH	6	DA	C5-C6-N1	-5.21	115.09	117.70
49	As	29	DA	C5-C6-N1	-5.21	115.10	117.70
54	Ay	14	DA	C5-C6-N1	-5.21	115.10	117.70
62	B6	4	DA	P-O5'-C5'	-5.21	112.57	120.90
65	B9	47	DA	C5-C6-N1	-5.21	115.09	117.70
108	Br	51	DC	N3-C4-C5	-5.21	119.82	121.90
125	CH	42	DC	C1'-O4'-C4'	-5.21	104.89	110.10
127	CJ	30	DA	C5-C6-N1	-5.21	115.10	117.70
140	CW	14	DT	O4'-C1'-C2'	-5.21	101.73	105.90
157	Cu	14	DA	O4'-C1'-C2'	-5.21	101.73	105.90
1	AA	36	DC	N3-C4-N4	5.21	121.64	118.00
1	AA	1164	DC	N3-C4-C5	-5.21	119.82	121.90
1	AA	1249	DA	C5-C6-N1	-5.21	115.10	117.70
1	AA	1437	DC	N3-C4-C5	-5.21	119.82	121.90
1	AA	1947	DC	N3-C4-N4	5.21	121.64	118.00
1	AA	2563	DA	C5-C6-N1	-5.21	115.10	117.70
1	AA	3145	DC	N3-C4-C5	-5.21	119.82	121.90
1	AA	3151	DA	C5-C6-N6	-5.21	119.53	123.70
1	AA	3822	DG	O4'-C1'-C2'	-5.21	101.73	105.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3892	DC	O4'-C1'-C2'	-5.21	101.73	105.90
1	AA	4164	DA	C5-C6-N6	-5.21	119.53	123.70
1	AA	4264	DA	C4-C5-C6	5.21	119.60	117.00
1	AA	5831	DA	C5-C6-N1	-5.21	115.10	117.70
1	AA	6026	DA	C5-C6-N6	-5.21	119.53	123.70
1	AA	6417	DC	N3-C4-N4	5.21	121.64	118.00
1	AA	6563	DC	N3-C4-N4	5.21	121.64	118.00
1	AA	6649	DA	C5-C6-N6	-5.21	119.53	123.70
1	AA	6884	DC	N3-C4-N4	5.21	121.64	118.00
6	A4	9	DA	C5-C6-N1	-5.21	115.10	117.70
13	AD	34	DC	N3-C4-C5	-5.21	119.82	121.90
29	AT	10	DA	C5-C6-N6	-5.21	119.53	123.70
34	AY	33	DC	N3-C4-C5	-5.21	119.82	121.90
62	B6	20	DA	C5-C6-N1	-5.21	115.10	117.70
89	BY	40	DA	C5-C6-N1	-5.21	115.10	117.70
94	Bd	42	DC	N3-C4-C5	-5.21	119.82	121.90
95	Be	15	DA	C5-C6-N1	-5.21	115.10	117.70
111	C1	2	DA	O4'-C1'-N9	5.21	111.64	108.00
112	C2	4	DA	P-O3'-C3'	5.21	125.95	119.70
112	C2	33	DA	C5-C6-N6	-5.21	119.53	123.70
113	C3	46	DC	N3-C4-C5	-5.21	119.82	121.90
126	CI	20	DC	N3-C4-C5	-5.21	119.82	121.90
149	Cg	27	DC	N3-C4-C5	-5.21	119.82	121.90
1	AA	603	DC	N3-C4-C5	-5.21	119.82	121.90
1	AA	2103	DC	N3-C4-C5	-5.21	119.82	121.90
1	AA	5644	DA	C5-C6-N1	-5.21	115.10	117.70
1	AA	6699	DC	N3-C4-C5	-5.21	119.82	121.90
25	AP	12	DC	N3-C4-C5	-5.21	119.82	121.90
60	B4	28	DA	C5-C6-N1	-5.21	115.10	117.70
66	BB	40	DC	N3-C4-N4	5.21	121.64	118.00
69	BE	34	DA	C5-C6-N6	-5.21	119.54	123.70
76	BL	34	DC	N3-C4-C5	-5.21	119.82	121.90
101	Bk	44	DC	N3-C4-N4	5.21	121.64	118.00
133	CP	36	DC	N3-C4-N4	5.21	121.64	118.00
143	CZ	8	DA	C5-C6-N1	-5.21	115.10	117.70
151	Ck	1	DC	N3-C4-C5	-5.21	119.82	121.90
154	Cr	31	DA	P-O3'-C3'	5.21	125.95	119.70
1	AA	470	DC	N3-C4-C5	-5.20	119.82	121.90
1	AA	1454	DC	N3-C4-C5	-5.20	119.82	121.90
1	AA	2379	DC	N3-C4-N4	5.20	121.64	118.00
1	AA	4731	DG	C1'-O4'-C4'	-5.20	104.90	110.10
1	AA	6234	DC	N3-C4-N4	5.20	121.64	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6960	DC	N3-C4-C5	-5.20	119.82	121.90
2	A0	38	DA	C5-C6-N6	-5.20	119.54	123.70
20	AK	44	DA	C5-C6-N6	-5.20	119.54	123.70
46	Am	18	DC	N3-C4-C5	-5.20	119.82	121.90
47	An	23	DT	O4'-C1'-N1	5.20	111.64	108.00
57	B1	33	DA	C5-C6-N1	-5.20	115.10	117.70
66	BB	30	DA	C5-C6-N1	-5.20	115.10	117.70
77	BM	2	DA	C5-C6-N1	-5.20	115.10	117.70
86	BV	25	DA	C5-C6-N1	-5.20	115.10	117.70
108	Br	45	DC	N3-C4-C5	-5.20	119.82	121.90
110	C0	31	DA	C5-C6-N1	-5.20	115.10	117.70
135	CR	3	DC	N3-C4-N4	5.20	121.64	118.00
144	Cb	12	DA	O4'-C1'-N9	5.20	111.64	108.00
155	Cs	43	DA	C5-C6-N1	-5.20	115.10	117.70
157	Cu	32	DA	C5-C6-N6	-5.20	119.54	123.70
1	AA	869	DC	N3-C4-C5	-5.20	119.82	121.90
1	AA	3615	DC	N3-C4-C5	-5.20	119.82	121.90
1	AA	5166	DA	P-O3'-C3'	5.20	125.94	119.70
1	AA	5543	DA	C5-C6-N6	-5.20	119.54	123.70
1	AA	7120	DC	P-O3'-C3'	5.20	125.94	119.70
1	AA	7137	DC	N3-C4-N4	5.20	121.64	118.00
1	AA	7185	DC	N3-C4-C5	-5.20	119.82	121.90
85	BU	9	DC	N3-C4-N4	5.20	121.64	118.00
89	BY	8	DC	N3-C4-N4	5.20	121.64	118.00
92	Bb	63	DC	N3-C4-C5	-5.20	119.82	121.90
99	Bi	5	DC	N3-C4-N4	5.20	121.64	118.00
115	C5	21	DC	N3-C4-N4	5.20	121.64	118.00
154	Cr	34	DC	N3-C4-C5	-5.20	119.82	121.90
159	Cw	28	DA	O4'-C1'-N9	5.20	111.64	108.00
1	AA	614	DC	N3-C4-C5	-5.20	119.82	121.90
1	AA	1866	DA	C5-C6-N1	-5.20	115.10	117.70
1	AA	2050	DC	N3-C4-C5	-5.20	119.82	121.90
1	AA	2679	DT	O4'-C1'-C2'	-5.20	101.74	105.90
1	AA	2988	DC	N3-C4-C5	-5.20	119.82	121.90
1	AA	3459	DC	N3-C4-C5	-5.20	119.82	121.90
1	AA	5095	DC	N3-C4-C5	-5.20	119.82	121.90
1	AA	5541	DA	C5-C6-N1	-5.20	115.10	117.70
1	AA	5629	DA	C5-C6-N6	-5.20	119.54	123.70
1	AA	5723	DA	O4'-C1'-N9	5.20	111.64	108.00
1	AA	5838	DA	C5-C6-N1	-5.20	115.10	117.70
1	AA	6159	DA	C5-C6-N1	-5.20	115.10	117.70
1	AA	6676	DC	N3-C4-C5	-5.20	119.82	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	7007	DC	N3-C4-N4	5.20	121.64	118.00
16	AG	16	DC	N3-C4-C5	-5.20	119.82	121.90
17	AH	37	DC	N3-C4-C5	-5.20	119.82	121.90
37	Ac	30	DC	N3-C4-C5	-5.20	119.82	121.90
44	Ak	34	DC	N3-C4-C5	-5.20	119.82	121.90
53	Ax	1	DC	C6-N1-C1'	-5.20	114.56	120.80
93	Bc	36	DC	N3-C4-N4	5.20	121.64	118.00
109	Bs	12	DC	O4'-C1'-C2'	-5.20	101.74	105.90
129	CL	29	DA	C5-C6-N1	-5.20	115.10	117.70
137	CT	30	DA	C5-C6-N1	-5.20	115.10	117.70
142	CY	7	DA	C5-C6-N6	-5.20	119.54	123.70
1	AA	279	DC	N3-C4-N4	5.20	121.64	118.00
1	AA	321	DC	N3-C4-N4	5.20	121.64	118.00
1	AA	538	DC	N3-C4-N4	5.20	121.64	118.00
1	AA	830	DC	N3-C4-C5	-5.20	119.82	121.90
1	AA	1881	DC	O4'-C1'-C2'	-5.20	101.74	105.90
1	AA	2222	DC	P-O3'-C3'	5.20	125.94	119.70
1	AA	2263	DG	O4'-C1'-N9	5.20	111.64	108.00
1	AA	2547	DC	N3-C4-N4	5.20	121.64	118.00
1	AA	2675	DC	N3-C4-N4	5.20	121.64	118.00
1	AA	3701	DC	N3-C4-N4	5.20	121.64	118.00
1	AA	3769	DC	N3-C4-C5	-5.20	119.82	121.90
1	AA	4045	DA	C5-C6-N1	-5.20	115.10	117.70
1	AA	4209	DC	N3-C4-N4	5.20	121.64	118.00
1	AA	4266	DA	C5-C6-N1	-5.20	115.10	117.70
1	AA	4925	DC	N3-C4-C5	-5.20	119.82	121.90
1	AA	5102	DT	P-O3'-C3'	5.20	125.94	119.70
1	AA	5159	DC	N3-C4-C5	-5.20	119.82	121.90
1	AA	5445	DA	C4-C5-C6	5.20	119.60	117.00
1	AA	6381	DA	C5-C6-N1	-5.20	115.10	117.70
1	AA	6820	DA	C5-C6-N1	-5.20	115.10	117.70
1	AA	7139	DC	N3-C4-C5	-5.20	119.82	121.90
24	AO	16	DC	N3-C4-C5	-5.20	119.82	121.90
26	AQ	45	DA	C5-C6-N6	-5.20	119.54	123.70
47	An	15	DA	C4-C5-C6	5.20	119.60	117.00
56	B0	37	DT	O4'-C1'-N1	5.20	111.64	108.00
65	B9	1	DA	C5-C6-N6	-5.20	119.54	123.70
74	BJ	29	DC	N3-C4-N4	5.20	121.64	118.00
103	Bm	20	DA	C5-C6-N1	-5.20	115.10	117.70
106	Bp	27	DC	N3-C4-C5	-5.20	119.82	121.90
113	C3	43	DC	N3-C4-N4	5.20	121.64	118.00
117	C7	6	DA	C5-C6-N1	-5.20	115.10	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
118	C8	34	DC	N3-C4-N4	5.20	121.64	118.00
119	CB	42	DC	N3-C4-C5	-5.20	119.82	121.90
148	Cf	23	DC	N3-C4-C5	-5.20	119.82	121.90
150	Ch	43	DC	N3-C4-N4	5.20	121.64	118.00
156	Ct	43	DC	N3-C4-N4	5.20	121.64	118.00
158	Cv	3	DA	C5-C6-N6	-5.20	119.54	123.70
1	AA	197	DC	N3-C4-C5	-5.20	119.82	121.90
1	AA	1167	DC	O4'-C1'-C2'	-5.20	101.74	105.90
1	AA	1410	DA	C5-C6-N1	-5.20	115.10	117.70
1	AA	1520	DC	N3-C4-C5	-5.20	119.82	121.90
1	AA	1936	DC	N3-C4-C5	-5.20	119.82	121.90
1	AA	2192	DA	C5-C6-N1	-5.20	115.10	117.70
1	AA	3523	DA	C5-C6-N1	-5.20	115.10	117.70
4	A2	30	DC	N3-C4-C5	-5.20	119.82	121.90
26	AQ	27	DC	N3-C4-N4	5.20	121.64	118.00
29	AT	10	DA	C5-C6-N1	-5.20	115.10	117.70
80	BP	8	DA	C5-C6-N1	-5.20	115.10	117.70
114	C4	6	DA	C5-C6-N1	-5.20	115.10	117.70
138	CU	18	DC	O4'-C1'-N1	5.20	111.64	108.00
1	AA	234	DC	N3-C4-N4	5.20	121.64	118.00
1	AA	268	DC	N3-C4-N4	5.20	121.64	118.00
1	AA	273	DA	P-O3'-C3'	5.20	125.94	119.70
1	AA	298	DC	N3-C4-N4	5.20	121.64	118.00
1	AA	366	DC	N3-C4-C5	-5.20	119.82	121.90
1	AA	1019	DC	N3-C4-N4	5.20	121.64	118.00
1	AA	1420	DA	C5-C6-N6	-5.20	119.54	123.70
1	AA	2336	DA	C5-C6-N1	-5.20	115.10	117.70
1	AA	2459	DC	N3-C4-C5	-5.20	119.82	121.90
1	AA	2521	DC	N3-C4-C5	-5.20	119.82	121.90
1	AA	2539	DA	C5-C6-N1	-5.20	115.10	117.70
1	AA	3181	DA	C5-C6-N6	-5.20	119.54	123.70
1	AA	3410	DA	C5-C6-N6	-5.20	119.54	123.70
1	AA	3628	DC	N3-C4-N4	5.20	121.64	118.00
1	AA	3965	DA	C5-C6-N6	-5.20	119.54	123.70
1	AA	4940	DC	N3-C4-C5	-5.20	119.82	121.90
1	AA	5915	DC	N3-C4-N4	5.20	121.64	118.00
1	AA	6287	DC	N3-C4-N4	5.20	121.64	118.00
1	AA	6299	DC	N3-C4-N4	5.20	121.64	118.00
1	AA	6755	DC	N3-C4-N4	5.20	121.64	118.00
21	AL	24	DT	P-O3'-C3'	5.20	125.93	119.70
57	B1	49	DA	P-O3'-C3'	5.20	125.93	119.70
66	BB	1	DA	C5-C6-N6	-5.20	119.54	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
79	BO	45	DT	O4'-C1'-N1	5.20	111.64	108.00
84	BT	12	DC	N3-C4-N4	5.20	121.64	118.00
107	Bq	4	DC	N3-C4-N4	5.20	121.64	118.00
133	CP	5	DA	C5-C6-N1	-5.20	115.10	117.70
142	CY	41	DA	C5-C6-N1	-5.20	115.10	117.70
159	Cw	54	DC	N3-C4-N4	5.20	121.64	118.00
1	AA	3796	DC	N3-C4-N4	5.19	121.64	118.00
1	AA	3965	DA	C5-C6-N1	-5.19	115.10	117.70
1	AA	4286	DC	N3-C4-N4	5.19	121.64	118.00
1	AA	7065	DC	N3-C4-N4	5.19	121.64	118.00
3	A1	39	DA	P-O3'-C3'	5.19	125.93	119.70
13	AD	50	DA	C5-C6-N6	-5.19	119.55	123.70
24	AO	9	DC	N3-C4-N4	5.19	121.64	118.00
41	Ah	5	DC	N3-C4-N4	5.19	121.64	118.00
41	Ah	15	DA	C5-C6-N1	-5.19	115.10	117.70
46	Am	6	DC	N3-C4-N4	5.19	121.64	118.00
78	BN	57	DC	N3-C4-C5	-5.19	119.82	121.90
121	CD	3	DC	N3-C4-C5	-5.19	119.82	121.90
160	Cx	40	DC	N3-C4-N4	5.19	121.64	118.00
1	AA	16	DC	N3-C4-N4	5.19	121.64	118.00
1	AA	189	DC	N3-C4-C5	-5.19	119.82	121.90
1	AA	682	DC	N3-C4-C5	-5.19	119.82	121.90
1	AA	1116	DG	O4'-C1'-N9	5.19	111.64	108.00
1	AA	1121	DA	C5-C6-N1	-5.19	115.10	117.70
1	AA	1674	DA	C4-C5-C6	5.19	119.60	117.00
1	AA	1744	DA	C5-C6-N6	-5.19	119.55	123.70
1	AA	1850	DC	N3-C4-N4	5.19	121.64	118.00
1	AA	2656	DC	N3-C4-N4	5.19	121.64	118.00
1	AA	2897	DG	C1'-O4'-C4'	-5.19	104.91	110.10
1	AA	3613	DC	N3-C4-N4	5.19	121.64	118.00
1	AA	3680	DC	N3-C4-N4	5.19	121.63	118.00
1	AA	3772	DA	P-O3'-C3'	5.19	125.93	119.70
1	AA	4061	DC	N3-C4-C5	-5.19	119.82	121.90
1	AA	4573	DC	N3-C4-N4	5.19	121.63	118.00
1	AA	5365	DA	C5-C6-N1	-5.19	115.10	117.70
1	AA	5379	DC	N3-C4-C5	-5.19	119.82	121.90
1	AA	5446	DT	C1'-O4'-C4'	-5.19	104.91	110.10
1	AA	5526	DC	N3-C4-N4	5.19	121.64	118.00
1	AA	7072	DC	O4'-C1'-C2'	-5.19	101.75	105.90
11	AB	26	DA	C5-C6-N1	-5.19	115.10	117.70
22	AM	2	DA	O4'-C4'-C3'	-5.19	102.42	104.50
28	AS	38	DA	C5-C6-N6	-5.19	119.55	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	AT	28	DC	N3-C4-N4	5.19	121.64	118.00
31	AV	32	DA	C5-C6-N1	-5.19	115.10	117.70
31	AV	48	DA	O4'-C1'-C2'	-5.19	101.75	105.90
46	Am	17	DA	C5-C6-N1	-5.19	115.10	117.70
65	B9	18	DC	N3-C4-C5	-5.19	119.82	121.90
71	BG	34	DC	P-O3'-C3'	-5.19	113.47	119.70
76	BL	15	DC	N3-C4-N4	5.19	121.64	118.00
80	BP	9	DA	C5-C6-N6	-5.19	119.55	123.70
81	BQ	29	DC	N3-C4-C5	-5.19	119.82	121.90
98	Bh	33	DA	C5-C6-N1	-5.19	115.10	117.70
111	C1	27	DC	N3-C4-N4	5.19	121.63	118.00
131	CN	3	DA	C5-C6-N1	-5.19	115.10	117.70
148	Cf	10	DA	C5-C6-N1	-5.19	115.10	117.70
162	Cz	11	DA	P-O3'-C3'	5.19	125.93	119.70
162	Cz	37	DA	C5-C6-N6	-5.19	119.55	123.70
1	AA	189	DC	N3-C4-N4	5.19	121.63	118.00
1	AA	575	DC	N3-C4-C5	-5.19	119.82	121.90
1	AA	667	DC	N3-C4-N4	5.19	121.63	118.00
1	AA	736	DA	C5-C6-N6	-5.19	119.55	123.70
1	AA	1785	DG	O4'-C1'-N9	5.19	111.63	108.00
1	AA	2365	DA	C5-C6-N1	-5.19	115.10	117.70
1	AA	3459	DC	N3-C4-N4	5.19	121.63	118.00
1	AA	3982	DC	N3-C4-N4	5.19	121.63	118.00
1	AA	4831	DA	C5-C6-N6	-5.19	119.55	123.70
1	AA	5295	DA	C5-C6-N6	-5.19	119.55	123.70
1	AA	5495	DA	C5-C6-N1	-5.19	115.11	117.70
1	AA	6197	DC	N3-C4-N4	5.19	121.63	118.00
8	A6	22	DC	N3-C4-N4	5.19	121.63	118.00
8	A6	49	DC	N3-C4-N4	5.19	121.63	118.00
9	A7	11	DC	N3-C4-N4	5.19	121.63	118.00
10	A8	28	DC	N3-C4-C5	-5.19	119.82	121.90
22	AM	9	DC	N3-C4-C5	-5.19	119.82	121.90
63	B7	41	DC	N3-C4-N4	5.19	121.63	118.00
81	BQ	38	DC	N3-C4-C5	-5.19	119.82	121.90
105	Bo	4	DC	N3-C4-C5	-5.19	119.82	121.90
108	Br	8	DC	N3-C4-C5	-5.19	119.82	121.90
112	C2	42	DA	C5-C6-N6	-5.19	119.55	123.70
122	CE	33	DA	C5-C6-N1	-5.19	115.11	117.70
129	CL	3	DC	P-O5'-C5'	-5.19	112.60	120.90
129	CL	23	DC	N3-C4-C5	-5.19	119.82	121.90
1	AA	252	DA	C5-C6-N1	-5.19	115.11	117.70
1	AA	583	DC	N3-C4-C5	-5.19	119.83	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	665	DC	N3-C4-C5	-5.19	119.82	121.90
1	AA	1314	DA	P-O3'-C3'	5.19	125.93	119.70
1	AA	2102	DC	N3-C4-N4	5.19	121.63	118.00
1	AA	3313	DC	N3-C4-N4	5.19	121.63	118.00
1	AA	5590	DC	N3-C4-C5	-5.19	119.82	121.90
1	AA	5872	DA	C5-C6-N1	-5.19	115.11	117.70
1	AA	6945	DC	N3-C4-N4	5.19	121.63	118.00
1	AA	6958	DA	C5-C6-N1	-5.19	115.11	117.70
1	AA	7160	DC	N3-C4-N4	5.19	121.63	118.00
7	A5	31	DC	N3-C4-N4	5.19	121.63	118.00
7	A5	32	DC	N3-C4-C5	-5.19	119.82	121.90
82	BR	37	DA	C5-C6-N6	-5.19	119.55	123.70
89	BY	30	DT	P-O5'-C5'	-5.19	112.60	120.90
101	Bk	62	DC	O4'-C1'-C2'	-5.19	101.75	105.90
141	CX	19	DA	C5-C6-N1	-5.19	115.11	117.70
1	AA	5	DA	C5-C6-N1	-5.19	115.11	117.70
1	AA	932	DA	C5-C6-N6	-5.19	119.55	123.70
1	AA	1762	DA	C5-C6-N1	-5.19	115.11	117.70
1	AA	1772	DC	N3-C4-N4	5.19	121.63	118.00
1	AA	1840	DC	N3-C4-C5	-5.19	119.83	121.90
1	AA	2137	DA	C5-C6-N1	-5.19	115.11	117.70
1	AA	2459	DC	N3-C4-N4	5.19	121.63	118.00
1	AA	3433	DC	N3-C4-C5	-5.19	119.83	121.90
1	AA	3654	DC	N3-C4-C5	-5.19	119.83	121.90
1	AA	4581	DA	C5-C6-N1	-5.19	115.11	117.70
1	AA	4681	DC	N3-C4-C5	-5.19	119.83	121.90
1	AA	4954	DA	O4'-C1'-N9	5.19	111.63	108.00
1	AA	5056	DA	C5-C6-N6	-5.19	119.55	123.70
1	AA	6723	DC	N3-C4-N4	5.19	121.63	118.00
1	AA	7085	DC	N3-C4-C5	-5.19	119.83	121.90
8	A6	31	DC	N3-C4-N4	5.19	121.63	118.00
11	AB	39	DC	N3-C4-N4	5.19	121.63	118.00
26	AQ	56	DC	N3-C4-C5	-5.19	119.83	121.90
34	AY	30	DA	C5-C6-N1	-5.19	115.11	117.70
40	Ag	30	DC	N3-C4-N4	5.19	121.63	118.00
55	Az	29	DC	N3-C4-N4	5.19	121.63	118.00
60	B4	43	DC	N3-C4-C5	-5.19	119.83	121.90
72	BH	38	DC	N3-C4-C5	-5.19	119.83	121.90
74	BJ	28	DC	N3-C4-C5	-5.19	119.83	121.90
77	BM	21	DC	N3-C4-C5	-5.19	119.83	121.90
80	BP	62	DC	O4'-C1'-N1	5.19	111.63	108.00
106	Bp	28	DC	O4'-C1'-N1	5.19	111.63	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
107	Bq	1	DA	C5-C6-N6	-5.19	119.55	123.70
132	CO	29	DA	C5-C6-N6	-5.19	119.55	123.70
133	CP	13	DA	C5-C6-N1	-5.19	115.11	117.70
136	CS	40	DC	N3-C4-N4	5.19	121.63	118.00
138	CU	16	DC	O4'-C1'-N1	5.19	111.63	108.00
147	Ce	43	DA	C5-C6-N6	-5.19	119.55	123.70
149	Cg	35	DC	N3-C4-N4	5.19	121.63	118.00
1	AA	1372	DC	N3-C4-C5	-5.19	119.83	121.90
1	AA	2439	DC	N3-C4-N4	5.19	121.63	118.00
1	AA	4263	DA	C5-C6-N6	-5.19	119.55	123.70
1	AA	6642	DC	N3-C4-N4	5.19	121.63	118.00
2	A0	2	DC	N3-C4-C5	-5.19	119.83	121.90
62	B6	35	DA	C5-C6-N1	-5.19	115.11	117.70
89	BY	30	DT	P-O3'-C3'	5.19	125.92	119.70
110	C0	37	DA	C5-C6-N1	-5.19	115.11	117.70
111	C1	28	DA	C5-C6-N1	-5.19	115.11	117.70
126	CI	19	DA	C5-C6-N1	-5.19	115.11	117.70
127	CJ	4	DA	C5-C6-N1	-5.19	115.11	117.70
132	CO	10	DA	C5-C6-N6	-5.19	119.55	123.70
1	AA	565	DC	C1'-O4'-C4'	-5.18	104.92	110.10
1	AA	780	DC	N3-C4-N4	5.18	121.63	118.00
1	AA	1185	DC	N3-C4-C5	-5.18	119.83	121.90
1	AA	1404	DA	C5-C6-N1	-5.18	115.11	117.70
1	AA	1854	DA	O4'-C1'-C2'	-5.18	101.75	105.90
1	AA	1947	DC	N3-C4-C5	-5.18	119.83	121.90
1	AA	2391	DC	N3-C4-N4	5.18	121.63	118.00
1	AA	2850	DC	N3-C4-N4	5.18	121.63	118.00
1	AA	3343	DA	P-O5'-C5'	-5.18	112.61	120.90
1	AA	3730	DA	C5-C6-N1	-5.18	115.11	117.70
1	AA	4871	DC	N3-C4-C5	-5.18	119.83	121.90
1	AA	5561	DC	N3-C4-N4	5.18	121.63	118.00
1	AA	5649	DA	C5-C6-N1	-5.18	115.11	117.70
1	AA	5667	DC	N3-C4-C5	-5.18	119.83	121.90
1	AA	5938	DC	N3-C4-C5	-5.18	119.83	121.90
1	AA	5941	DA	C5-C6-N1	-5.18	115.11	117.70
1	AA	6262	DC	N3-C4-C5	-5.18	119.83	121.90
1	AA	6361	DG	O4'-C1'-C2'	-5.18	101.75	105.90
1	AA	7129	DC	N3-C4-C5	-5.18	119.83	121.90
7	A5	48	DA	C5-C6-N6	-5.18	119.55	123.70
11	AB	14	DC	N3-C4-C5	-5.18	119.83	121.90
15	AF	7	DC	N3-C4-N4	5.18	121.63	118.00
21	AL	39	DC	N3-C4-C5	-5.18	119.83	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
30	AU	46	DC	O4'-C4'-C3'	-5.18	102.43	104.50
68	BD	13	DC	N3-C4-C5	-5.18	119.83	121.90
68	BD	22	DG	P-O3'-C3'	5.18	125.92	119.70
76	BL	9	DC	N3-C4-N4	5.18	121.63	118.00
81	BQ	42	DC	N3-C4-N4	5.18	121.63	118.00
84	BT	17	DT	P-O5'-C5'	-5.18	112.61	120.90
88	BX	42	DA	C5-C6-N1	-5.18	115.11	117.70
94	Bd	43	DA	C5-C6-N1	-5.18	115.11	117.70
94	Bd	46	DC	N3-C4-N4	5.18	121.63	118.00
134	CQ	36	DC	N3-C4-C5	-5.18	119.83	121.90
141	CX	42	DA	C5-C6-N6	-5.18	119.55	123.70
147	Ce	26	DC	N3-C4-C5	-5.18	119.83	121.90
150	Ch	3	DA	C5-C6-N1	-5.18	115.11	117.70
154	Cr	35	DC	N3-C4-N4	5.18	121.63	118.00
162	Cz	3	DA	C4-C5-C6	5.18	119.59	117.00
1	AA	861	DC	N3-C4-N4	5.18	121.63	118.00
1	AA	1150	DG	O4'-C1'-C2'	-5.18	101.75	105.90
1	AA	1286	DC	N3-C4-N4	5.18	121.63	118.00
1	AA	1848	DA	C5-C6-N1	-5.18	115.11	117.70
1	AA	2285	DA	C5-C6-N1	-5.18	115.11	117.70
1	AA	3061	DC	N3-C4-C5	-5.18	119.83	121.90
1	AA	3497	DC	N3-C4-N4	5.18	121.63	118.00
1	AA	4360	DA	C5-C6-N1	-5.18	115.11	117.70
1	AA	4573	DC	N3-C4-C5	-5.18	119.83	121.90
1	AA	4830	DC	N3-C4-N4	5.18	121.63	118.00
1	AA	5167	DC	N3-C4-N4	5.18	121.63	118.00
1	AA	5468	DC	N3-C4-C5	-5.18	119.83	121.90
1	AA	6209	DA	C5-C6-N1	-5.18	115.11	117.70
1	AA	6269	DA	O4'-C1'-C2'	-5.18	101.75	105.90
1	AA	6438	DC	C5-C4-N4	-5.18	116.57	120.20
1	AA	6551	DC	N3-C4-N4	5.18	121.63	118.00
1	AA	6607	DC	N3-C4-C5	-5.18	119.83	121.90
1	AA	7059	DC	N3-C4-N4	5.18	121.63	118.00
24	AO	14	DC	N3-C4-N4	5.18	121.63	118.00
37	Ac	5	DA	C5-C6-N1	-5.18	115.11	117.70
41	Ah	13	DA	C5-C6-N1	-5.18	115.11	117.70
50	Au	9	DA	C5-C6-N1	-5.18	115.11	117.70
60	B4	8	DC	N3-C4-C5	-5.18	119.83	121.90
74	BJ	12	DA	C5-C6-N1	-5.18	115.11	117.70
80	BP	40	DC	N3-C4-C5	-5.18	119.83	121.90
91	Ba	19	DA	C5-C6-N1	-5.18	115.11	117.70
107	Bq	21	DC	N3-C4-N4	5.18	121.63	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
146	Cd	1	DA	O4'-C1'-C2'	-5.18	101.75	105.90
159	Cw	30	DC	O4'-C1'-N1	5.18	111.63	108.00
1	AA	147	DC	N3-C4-C5	-5.18	119.83	121.90
1	AA	289	DC	N3-C4-N4	5.18	121.63	118.00
1	AA	1117	DA	O4'-C4'-C3'	-5.18	102.43	104.50
1	AA	1295	DC	N3-C4-C5	-5.18	119.83	121.90
1	AA	1545	DC	N3-C4-C5	-5.18	119.83	121.90
1	AA	2682	DA	C5-C6-N1	-5.18	115.11	117.70
19	AJ	42	DA	C5-C6-N1	-5.18	115.11	117.70
24	AO	5	DA	C5-C6-N1	-5.18	115.11	117.70
79	BO	35	DC	N3-C4-N4	5.18	121.63	118.00
83	BS	14	DC	N3-C4-N4	5.18	121.63	118.00
105	Bo	33	DC	N3-C4-C5	-5.18	119.83	121.90
142	CY	43	DA	C5-C6-N1	-5.18	115.11	117.70
1	AA	350	DC	N3-C4-N4	5.18	121.63	118.00
1	AA	403	DC	N3-C4-N4	5.18	121.62	118.00
1	AA	855	DC	N3-C4-N4	5.18	121.63	118.00
1	AA	1404	DA	C5-C6-N6	-5.18	119.56	123.70
1	AA	1787	DA	C5-C6-N6	-5.18	119.56	123.70
1	AA	2222	DC	N3-C4-N4	5.18	121.63	118.00
1	AA	3531	DC	N3-C4-C5	-5.18	119.83	121.90
1	AA	3661	DC	N3-C4-C5	-5.18	119.83	121.90
1	AA	4186	DC	N3-C4-N4	5.18	121.63	118.00
1	AA	4194	DC	N3-C4-C5	-5.18	119.83	121.90
1	AA	4448	DA	C5-C6-N1	-5.18	115.11	117.70
1	AA	5194	DC	N3-C4-C5	-5.18	119.83	121.90
1	AA	5407	DA	C5-C6-N1	-5.18	115.11	117.70
1	AA	5849	DC	N3-C4-C5	-5.18	119.83	121.90
1	AA	6962	DA	C5-C6-N1	-5.18	115.11	117.70
13	AD	35	DC	N3-C4-C5	-5.18	119.83	121.90
21	AL	46	DC	N3-C4-N4	5.18	121.62	118.00
32	AW	45	DC	O4'-C1'-C2'	-5.18	101.76	105.90
33	AX	13	DA	C5-C6-N1	-5.18	115.11	117.70
36	Ab	24	DC	N3-C4-N4	5.18	121.62	118.00
46	Am	40	DA	C5-C6-N1	-5.18	115.11	117.70
48	Ao	4	DA	C5-C6-N1	-5.18	115.11	117.70
62	B6	34	DA	C5-C6-N6	-5.18	119.56	123.70
66	BB	47	DT	O4'-C1'-N1	5.18	111.63	108.00
76	BL	42	DA	C5-C6-N1	-5.18	115.11	117.70
86	BV	1	DC	C1'-O4'-C4'	-5.18	104.92	110.10
127	CJ	3	DA	C5-C6-N1	-5.18	115.11	117.70
132	CO	35	DC	N3-C4-C5	-5.18	119.83	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
153	Cq	40	DA	C5-C6-N1	-5.18	115.11	117.70
1	AA	486	DC	N3-C4-N4	5.18	121.62	118.00
1	AA	701	DA	C5-C6-N1	-5.18	115.11	117.70
1	AA	1436	DC	N3-C4-N4	5.18	121.62	118.00
1	AA	2335	DA	O4'-C1'-C2'	-5.18	101.76	105.90
1	AA	4524	DC	N3-C4-N4	5.18	121.62	118.00
1	AA	6199	DA	C5-C6-N1	-5.18	115.11	117.70
1	AA	7204	DC	N3-C4-C5	-5.18	119.83	121.90
17	AH	46	DA	C5-C6-N1	-5.18	115.11	117.70
22	AM	3	DC	N3-C4-C5	-5.18	119.83	121.90
52	Aw	33	DC	N3-C4-N4	5.18	121.62	118.00
58	B2	35	DC	N3-C4-N4	5.18	121.62	118.00
92	Bb	25	DC	N3-C4-C5	-5.18	119.83	121.90
113	C3	42	DG	C4'-C3'-C2'	-5.18	98.44	103.10
160	Cx	15	DC	N3-C4-C5	-5.18	119.83	121.90
162	Cz	14	DA	C5-C6-N1	-5.18	115.11	117.70
1	AA	156	DC	N3-C4-C5	-5.18	119.83	121.90
1	AA	513	DC	N3-C4-C5	-5.18	119.83	121.90
1	AA	604	DC	N3-C4-C5	-5.18	119.83	121.90
1	AA	766	DC	N3-C4-N4	5.18	121.62	118.00
1	AA	861	DC	N3-C4-C5	-5.18	119.83	121.90
1	AA	957	DG	P-O3'-C3'	5.18	125.91	119.70
1	AA	1621	DC	N3-C4-N4	5.18	121.62	118.00
1	AA	1834	DC	N3-C4-C5	-5.18	119.83	121.90
1	AA	2667	DA	C5-C6-N6	-5.18	119.56	123.70
1	AA	3620	DC	N3-C4-N4	5.18	121.62	118.00
1	AA	5961	DA	C5-C6-N1	-5.18	115.11	117.70
1	AA	6158	DC	N3-C4-N4	5.18	121.62	118.00
1	AA	6714	DA	C5-C6-N6	-5.18	119.56	123.70
1	AA	6830	DT	P-O3'-C3'	5.18	125.91	119.70
1	AA	6901	DC	N3-C4-C5	-5.18	119.83	121.90
1	AA	7202	DC	C1'-O4'-C4'	-5.18	104.92	110.10
3	A1	16	DA	C5-C6-N1	-5.18	115.11	117.70
23	AN	21	DA	C5-C6-N1	-5.18	115.11	117.70
27	AR	12	DC	N3-C4-C5	-5.18	119.83	121.90
46	Am	31	DG	O4'-C1'-C2'	-5.18	101.76	105.90
53	Ax	11	DA	C5-C6-N6	-5.18	119.56	123.70
58	B2	35	DC	N3-C4-C5	-5.18	119.83	121.90
66	BB	24	DG	C3'-C2'-C1'	-5.18	96.29	102.50
80	BP	43	DC	N3-C4-N4	5.18	121.62	118.00
97	Bg	1	DT	O4'-C1'-C2'	-5.18	101.76	105.90
100	Bj	37	DA	C5-C6-N1	-5.18	115.11	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
129	CL	42	DA	C5-C6-N1	-5.18	115.11	117.70
145	Cc	21	DA	C5-C6-N1	-5.18	115.11	117.70
159	Cw	16	DG	O4'-C1'-C2'	-5.18	101.76	105.90
159	Cw	48	DC	N3-C4-N4	5.18	121.62	118.00
162	Cz	1	DC	N3-C4-C5	-5.18	119.83	121.90
1	AA	578	DC	N3-C4-C5	-5.17	119.83	121.90
1	AA	617	DC	N3-C4-C5	-5.17	119.83	121.90
1	AA	1103	DC	N3-C4-C5	-5.17	119.83	121.90
1	AA	1758	DC	N3-C4-N4	5.17	121.62	118.00
1	AA	2935	DA	C5-C6-N1	-5.17	115.11	117.70
1	AA	3445	DA	C5-C6-N1	-5.17	115.11	117.70
1	AA	3668	DA	C5-C6-N1	-5.17	115.11	117.70
1	AA	5163	DA	C5-C6-N1	-5.17	115.11	117.70
1	AA	5999	DC	N3-C4-C5	-5.17	119.83	121.90
1	AA	6050	DC	N3-C4-C5	-5.17	119.83	121.90
1	AA	6606	DC	N3-C4-C5	-5.17	119.83	121.90
1	AA	6945	DC	N3-C4-C5	-5.17	119.83	121.90
8	A6	45	DA	C5-C6-N6	-5.17	119.56	123.70
21	AL	27	DA	O4'-C1'-N9	5.17	111.62	108.00
24	AO	13	DA	C5-C6-N6	-5.17	119.56	123.70
35	AZ	35	DA	C5-C6-N1	-5.17	115.11	117.70
41	Ah	4	DC	O4'-C1'-N1	5.17	111.62	108.00
69	BE	46	DC	N3-C4-N4	5.17	121.62	118.00
80	BP	46	DA	C5-C6-N1	-5.17	115.11	117.70
90	BZ	8	DC	N3-C4-C5	-5.17	119.83	121.90
90	BZ	40	DC	N3-C4-C5	-5.17	119.83	121.90
92	Bb	66	DC	N3-C4-C5	-5.17	119.83	121.90
95	Be	25	DC	O4'-C1'-N1	5.17	111.62	108.00
97	Bg	15	DT	P-O3'-C3'	5.17	125.91	119.70
98	Bh	46	DC	N3-C4-N4	5.17	121.62	118.00
114	C4	21	DC	N3-C4-N4	5.17	121.62	118.00
146	Cd	2	DA	C5-C6-N1	-5.17	115.11	117.70
153	Cq	33	DC	N3-C4-N4	5.17	121.62	118.00
156	Ct	39	DC	N3-C4-N4	5.17	121.62	118.00
161	Cy	23	DA	C5-C6-N1	-5.17	115.11	117.70
1	AA	225	DC	N3-C4-N4	5.17	121.62	118.00
1	AA	4170	DC	N3-C4-C5	-5.17	119.83	121.90
1	AA	4685	DT	O4'-C1'-N1	5.17	111.62	108.00
1	AA	6321	DC	N3-C4-C5	-5.17	119.83	121.90
1	AA	6971	DC	O4'-C1'-N1	5.17	111.62	108.00
26	AQ	38	DG	O4'-C4'-C3'	-5.17	102.43	104.50
47	An	22	DA	C5-C6-N1	-5.17	115.11	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
56	B0	16	DC	P-O3'-C3'	5.17	125.91	119.70
90	BZ	10	DC	N3-C4-C5	-5.17	119.83	121.90
112	C2	15	DC	N3-C4-C5	-5.17	119.83	121.90
115	C5	26	DA	C5-C6-N1	-5.17	115.11	117.70
145	Cc	55	DT	O4'-C1'-C2'	-5.17	101.76	105.90
1	AA	319	DA	C5-C6-N1	-5.17	115.11	117.70
1	AA	2125	DC	N3-C4-C5	-5.17	119.83	121.90
1	AA	3295	DA	C4-C5-C6	5.17	119.58	117.00
1	AA	3402	DG	O4'-C1'-C2'	-5.17	101.76	105.90
1	AA	3945	DA	C5-C6-N1	-5.17	115.11	117.70
1	AA	4265	DA	C5-C6-N1	-5.17	115.11	117.70
1	AA	5333	DG	O4'-C1'-C2'	-5.17	101.76	105.90
1	AA	6065	DA	C5-C6-N1	-5.17	115.11	117.70
1	AA	6317	DC	N3-C4-C5	-5.17	119.83	121.90
1	AA	6577	DA	C5-C6-N1	-5.17	115.11	117.70
4	A2	12	DA	O4'-C1'-N9	5.17	111.62	108.00
4	A2	17	DC	N3-C4-C5	-5.17	119.83	121.90
15	AF	32	DA	C5-C6-N1	-5.17	115.11	117.70
22	AM	36	DC	N3-C4-N4	5.17	121.62	118.00
31	AV	49	DA	C5-C6-N1	-5.17	115.11	117.70
40	Ag	7	DA	C5-C6-N6	-5.17	119.56	123.70
49	As	10	DG	C4'-C3'-C2'	-5.17	98.44	103.10
55	Az	29	DC	N3-C4-C5	-5.17	119.83	121.90
69	BE	59	DC	N3-C4-C5	-5.17	119.83	121.90
79	BO	28	DC	N3-C4-C5	-5.17	119.83	121.90
83	BS	28	DC	N3-C4-C5	-5.17	119.83	121.90
84	BT	49	DA	C5-C6-N1	-5.17	115.11	117.70
1	AA	781	DC	N3-C4-N4	5.17	121.62	118.00
1	AA	4005	DA	C5-C6-N1	-5.17	115.11	117.70
1	AA	4565	DC	O4'-C1'-C2'	-5.17	101.76	105.90
1	AA	4863	DA	C5-C6-N6	-5.17	119.56	123.70
1	AA	5438	DA	C5-C6-N1	-5.17	115.11	117.70
1	AA	5660	DC	N3-C4-C5	-5.17	119.83	121.90
1	AA	7161	DT	P-O3'-C3'	5.17	125.90	119.70
22	AM	43	DC	N3-C4-N4	5.17	121.62	118.00
40	Ag	1	DA	O4'-C1'-N9	5.17	111.62	108.00
42	Ai	16	DC	N3-C4-N4	5.17	121.62	118.00
46	Am	26	DC	P-O3'-C3'	5.17	125.90	119.70
53	Ax	15	DT	P-O3'-C3'	5.17	125.90	119.70
74	BJ	36	DT	O4'-C1'-N1	5.17	111.62	108.00
106	Bp	27	DC	N3-C4-N4	5.17	121.62	118.00
1	AA	418	DA	C5-C6-N1	-5.17	115.11	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	761	DG	C8-N9-C1'	5.17	133.72	127.00
1	AA	1298	DA	C5-C6-N6	-5.17	119.56	123.70
1	AA	1842	DC	N3-C4-N4	5.17	121.62	118.00
1	AA	2102	DC	N3-C4-C5	-5.17	119.83	121.90
1	AA	2258	DA	C5-C6-N1	-5.17	115.12	117.70
1	AA	4057	DG	P-O3'-C3'	5.17	125.90	119.70
1	AA	4237	DC	N3-C4-C5	-5.17	119.83	121.90
1	AA	5690	DA	C4-C5-C6	5.17	119.58	117.00
1	AA	5861	DG	P-O3'-C3'	5.17	125.90	119.70
1	AA	6508	DC	O4'-C4'-C3'	-5.17	102.43	104.50
1	AA	6597	DC	N3-C4-C5	-5.17	119.83	121.90
1	AA	6817	DA	O4'-C1'-C2'	-5.17	101.77	105.90
1	AA	6940	DA	C5-C6-N1	-5.17	115.12	117.70
1	AA	7091	DC	N3-C4-C5	-5.17	119.83	121.90
19	AJ	44	DG	P-O5'-C5'	-5.17	112.63	120.90
25	AP	36	DC	N3-C4-N4	5.17	121.62	118.00
26	AQ	19	DC	N3-C4-N4	5.17	121.62	118.00
33	AX	4	DC	N3-C4-C5	-5.17	119.83	121.90
42	Ai	15	DC	N3-C4-N4	5.17	121.62	118.00
46	Am	32	DA	C5-C6-N1	-5.17	115.12	117.70
49	As	3	DC	N3-C4-N4	5.17	121.62	118.00
64	B8	23	DC	N3-C4-C5	-5.17	119.83	121.90
76	BL	15	DC	N3-C4-C5	-5.17	119.83	121.90
99	Bi	33	DC	N3-C4-C5	-5.17	119.83	121.90
105	Bo	12	DC	N3-C4-C5	-5.17	119.83	121.90
105	Bo	18	DA	C5-C6-N1	-5.17	115.11	117.70
125	CH	48	DA	C5-C6-N1	-5.17	115.12	117.70
146	Cd	7	DA	C5-C6-N1	-5.17	115.11	117.70
158	Cv	32	DA	C5-C6-N1	-5.17	115.12	117.70
160	Cx	9	DC	N3-C4-C5	-5.17	119.83	121.90
1	AA	183	DC	N3-C4-C5	-5.17	119.83	121.90
1	AA	1208	DC	N3-C4-C5	-5.17	119.83	121.90
1	AA	1445	DC	N3-C4-C5	-5.17	119.83	121.90
1	AA	1850	DC	N3-C4-C5	-5.17	119.83	121.90
1	AA	2548	DA	C5-C6-N1	-5.17	115.12	117.70
1	AA	2564	DA	C5-C6-N1	-5.17	115.12	117.70
1	AA	2785	DC	N3-C4-C5	-5.17	119.83	121.90
1	AA	3223	DC	N3-C4-N4	5.17	121.62	118.00
1	AA	3676	DA	C5-C6-N1	-5.17	115.12	117.70
1	AA	4086	DG	C3'-C2'-C1'	-5.17	96.30	102.50
1	AA	4262	DC	N3-C4-C5	-5.17	119.83	121.90
1	AA	5154	DC	N3-C4-C5	-5.17	119.83	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5732	DA	C5-C6-N1	-5.17	115.12	117.70
1	AA	6364	DG	O4'-C1'-N9	5.17	111.62	108.00
4	A2	48	DA	C5-C6-N1	-5.17	115.12	117.70
12	AC	4	DC	N3-C4-C5	-5.17	119.83	121.90
13	AD	13	DC	N3-C4-C5	-5.17	119.83	121.90
33	AX	28	DC	N3-C4-C5	-5.17	119.83	121.90
37	Ac	56	DC	N3-C4-N4	5.17	121.62	118.00
54	Ay	30	DA	C5-C6-N1	-5.17	115.12	117.70
69	BE	54	DA	C5-C6-N1	-5.17	115.12	117.70
99	Bi	22	DC	N3-C4-N4	5.17	121.62	118.00
100	Bj	7	DA	C5-C6-N1	-5.17	115.12	117.70
105	Bo	58	DC	N3-C4-C5	-5.17	119.83	121.90
114	C4	30	DC	N3-C4-C5	-5.17	119.83	121.90
125	CH	41	DA	C5-C6-N6	-5.17	119.57	123.70
147	Ce	2	DA	O4'-C1'-N9	5.17	111.62	108.00
1	AA	660	DA	C5-C6-N6	-5.17	119.57	123.70
1	AA	882	DC	N3-C4-N4	5.17	121.61	118.00
1	AA	3601	DC	N3-C4-C5	-5.17	119.83	121.90
1	AA	3690	DA	C5-C6-N1	-5.17	115.12	117.70
1	AA	4666	DC	N3-C4-N4	5.17	121.61	118.00
1	AA	4670	DA	C5-C6-N1	-5.17	115.12	117.70
1	AA	7117	DC	N3-C4-N4	5.17	121.61	118.00
23	AN	40	DC	N3-C4-N4	5.17	121.61	118.00
29	AT	16	DC	N3-C4-C5	-5.17	119.83	121.90
75	BK	27	DA	C5-C6-N1	-5.17	115.12	117.70
95	Be	40	DC	N3-C4-C5	-5.17	119.83	121.90
116	C6	43	DC	C1'-O4'-C4'	-5.17	104.94	110.10
156	Ct	17	DA	O4'-C1'-N9	5.17	111.61	108.00
1	AA	46	DA	C5-C6-N1	-5.16	115.12	117.70
1	AA	67	DA	C5-C6-N1	-5.16	115.12	117.70
1	AA	526	DA	C5-C6-N6	-5.16	119.57	123.70
1	AA	535	DC	N3-C4-C5	-5.16	119.83	121.90
1	AA	1537	DA	C5-C6-N1	-5.16	115.12	117.70
1	AA	2159	DC	N3-C4-C5	-5.16	119.83	121.90
1	AA	2309	DC	N3-C4-N4	5.16	121.61	118.00
1	AA	2820	DA	C5-C6-N1	-5.16	115.12	117.70
1	AA	3217	DA	C5-C6-N1	-5.16	115.12	117.70
1	AA	3555	DC	N3-C4-N4	5.16	121.61	118.00
1	AA	3877	DC	N3-C4-C5	-5.16	119.83	121.90
1	AA	4411	DC	N3-C4-N4	5.16	121.61	118.00
1	AA	5645	DA	C5-C6-N1	-5.16	115.12	117.70
1	AA	6386	DC	N3-C4-C5	-5.16	119.83	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6413	DC	N3-C4-C5	-5.16	119.83	121.90
1	AA	6416	DG	O4'-C1'-N9	5.16	111.61	108.00
1	AA	6706	DC	N3-C4-C5	-5.16	119.83	121.90
26	AQ	10	DA	C5-C6-N1	-5.16	115.12	117.70
28	AS	58	DA	C5-C6-N1	-5.16	115.12	117.70
33	AX	26	DC	N3-C4-C5	-5.16	119.83	121.90
42	Ai	4	DC	N3-C4-C5	-5.16	119.83	121.90
51	Av	3	DA	C5-C6-N1	-5.16	115.12	117.70
51	Av	13	DC	N3-C4-C5	-5.16	119.83	121.90
60	B4	40	DC	N3-C4-N4	5.16	121.61	118.00
66	BB	22	DA	C5-C6-N1	-5.16	115.12	117.70
87	BW	16	DC	N3-C4-C5	-5.16	119.83	121.90
96	Bf	47	DG	O4'-C1'-N9	5.16	111.61	108.00
127	CJ	43	DC	O4'-C1'-C2'	-5.16	101.77	105.90
146	Cd	40	DA	C5-C6-N1	-5.16	115.12	117.70
152	Cp	12	DC	N3-C4-N4	5.16	121.61	118.00
158	Cv	28	DC	N3-C4-N4	5.16	121.61	118.00
1	AA	754	DC	N3-C4-C5	-5.16	119.83	121.90
1	AA	3486	DA	C5-C6-N1	-5.16	115.12	117.70
1	AA	4983	DA	C5-C6-N1	-5.16	115.12	117.70
1	AA	5909	DA	C5-C6-N6	-5.16	119.57	123.70
30	AU	25	DA	C5-C6-N1	-5.16	115.12	117.70
31	AV	47	DA	C5-C6-N6	-5.16	119.57	123.70
46	Am	30	DC	N3-C4-C5	-5.16	119.83	121.90
145	Cc	60	DC	N3-C4-N4	5.16	121.61	118.00
1	AA	495	DC	N3-C4-C5	-5.16	119.84	121.90
1	AA	1471	DA	C5-C6-N1	-5.16	115.12	117.70
1	AA	1556	DC	N3-C4-C5	-5.16	119.83	121.90
1	AA	1829	DC	N3-C4-C5	-5.16	119.84	121.90
1	AA	2561	DC	N3-C4-N4	5.16	121.61	118.00
1	AA	2913	DC	O4'-C4'-C3'	-5.16	102.44	104.50
1	AA	3496	DA	C4-C5-C6	5.16	119.58	117.00
1	AA	3499	DC	N3-C4-N4	5.16	121.61	118.00
1	AA	4642	DA	C5-C6-N1	-5.16	115.12	117.70
1	AA	5115	DC	N3-C4-N4	5.16	121.61	118.00
1	AA	5444	DA	C5-C6-N6	-5.16	119.57	123.70
1	AA	6503	DC	N3-C4-C5	-5.16	119.84	121.90
1	AA	6529	DC	O4'-C1'-C2'	-5.16	101.77	105.90
1	AA	6818	DC	N3-C4-N4	5.16	121.61	118.00
1	AA	7195	DC	N3-C4-N4	5.16	121.61	118.00
12	AC	3	DA	C5-C6-N6	-5.16	119.57	123.70
25	AP	35	DC	N3-C4-N4	5.16	121.61	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	Af	18	DC	N3-C4-C5	-5.16	119.84	121.90
43	Aj	20	DA	O4'-C1'-C2'	-5.16	101.77	105.90
47	An	15	DA	C3'-C2'-C1'	-5.16	96.31	102.50
69	BE	29	DC	N3-C4-C5	-5.16	119.84	121.90
77	BM	23	DC	O4'-C1'-C2'	-5.16	101.77	105.90
84	BT	10	DC	N3-C4-N4	5.16	121.61	118.00
86	BV	39	DC	N3-C4-N4	5.16	121.61	118.00
90	BZ	38	DA	C5-C6-N6	-5.16	119.57	123.70
102	Bl	1	DC	N3-C4-C5	-5.16	119.84	121.90
111	C1	44	DC	O4'-C1'-C2'	-5.16	101.77	105.90
112	C2	21	DC	N3-C4-C5	-5.16	119.84	121.90
130	CM	13	DA	C5-C6-N1	-5.16	115.12	117.70
132	CO	47	DG	C4'-C3'-C2'	-5.16	98.46	103.10
154	Cr	37	DC	N3-C4-C5	-5.16	119.84	121.90
1	AA	141	DA	C5-C6-N1	-5.16	115.12	117.70
1	AA	254	DA	C5-C6-N1	-5.16	115.12	117.70
1	AA	256	DA	C5-C6-N6	-5.16	119.57	123.70
1	AA	583	DC	N3-C4-N4	5.16	121.61	118.00
1	AA	1029	DC	N3-C4-N4	5.16	121.61	118.00
1	AA	1052	DA	C5-C6-N1	-5.16	115.12	117.70
1	AA	1726	DC	N3-C4-C5	-5.16	119.84	121.90
1	AA	1753	DC	N3-C4-C5	-5.16	119.84	121.90
1	AA	2342	DC	N3-C4-N4	5.16	121.61	118.00
1	AA	3145	DC	N3-C4-N4	5.16	121.61	118.00
1	AA	3269	DA	C5-C6-N1	-5.16	115.12	117.70
1	AA	3455	DC	N3-C4-C5	-5.16	119.84	121.90
1	AA	3636	DA	C5-C6-N1	-5.16	115.12	117.70
1	AA	4190	DC	N3-C4-N4	5.16	121.61	118.00
1	AA	4438	DC	N3-C4-N4	5.16	121.61	118.00
1	AA	4505	DC	N3-C4-C5	-5.16	119.84	121.90
1	AA	5683	DC	N3-C4-N4	5.16	121.61	118.00
1	AA	6713	DC	N3-C4-N4	5.16	121.61	118.00
1	AA	7032	DC	N3-C4-N4	5.16	121.61	118.00
4	A2	33	DC	N3-C4-C5	-5.16	119.84	121.90
4	A2	34	DA	C5-C6-N1	-5.16	115.12	117.70
21	AL	27	DA	C5-C6-N6	-5.16	119.57	123.70
29	AT	17	DC	N3-C4-N4	5.16	121.61	118.00
29	AT	22	DA	O4'-C1'-N9	5.16	111.61	108.00
55	Az	9	DA	C5-C6-N1	-5.16	115.12	117.70
65	B9	50	DC	N3-C4-C5	-5.16	119.84	121.90
68	BD	3	DC	N3-C4-N4	5.16	121.61	118.00
72	BH	34	DC	O4'-C1'-C2'	-5.16	101.77	105.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
80	BP	62	DC	N3-C4-N4	5.16	121.61	118.00
83	BS	27	DA	C5-C6-N6	-5.16	119.57	123.70
97	Bg	40	DA	C5-C6-N1	-5.16	115.12	117.70
100	Bj	23	DC	N3-C4-C5	-5.16	119.84	121.90
101	Bk	36	DC	N3-C4-C5	-5.16	119.84	121.90
106	Bp	12	DC	N3-C4-C5	-5.16	119.84	121.90
109	Bs	14	DC	N3-C4-C5	-5.16	119.84	121.90
117	C7	28	DA	C5-C6-N1	-5.16	115.12	117.70
122	CE	35	DA	P-O3'-C3'	5.16	125.89	119.70
129	CL	13	DC	N3-C4-C5	-5.16	119.84	121.90
135	CR	42	DA	O4'-C1'-N9	5.16	111.61	108.00
141	CX	43	DC	N3-C4-C5	-5.16	119.84	121.90
143	CZ	35	DA	C5-C6-N1	-5.16	115.12	117.70
156	Ct	23	DA	C4-C5-C6	5.16	119.58	117.00
1	AA	134	DA	C5-C6-N1	-5.16	115.12	117.70
1	AA	3605	DC	N3-C4-N4	5.16	121.61	118.00
1	AA	3758	DA	C5-C6-N6	-5.16	119.57	123.70
1	AA	3939	DA	C5-C6-N6	-5.16	119.58	123.70
1	AA	4984	DC	N3-C4-C5	-5.16	119.84	121.90
1	AA	5357	DC	N3-C4-C5	-5.16	119.84	121.90
1	AA	5377	DC	C1'-O4'-C4'	-5.16	104.94	110.10
1	AA	7091	DC	N3-C4-N4	5.16	121.61	118.00
6	A4	47	DA	C5-C6-N1	-5.16	115.12	117.70
10	A8	11	DA	C5-C6-N1	-5.16	115.12	117.70
41	Ah	25	DA	C5-C6-N1	-5.16	115.12	117.70
52	Aw	41	DC	N3-C4-C5	-5.16	119.84	121.90
63	B7	28	DA	C5-C6-N1	-5.16	115.12	117.70
90	BZ	32	DA	C5-C6-N6	-5.16	119.57	123.70
95	Be	35	DC	N3-C4-N4	5.16	121.61	118.00
99	Bi	35	DC	N3-C4-C5	-5.16	119.84	121.90
132	CO	15	DG	O4'-C1'-C2'	-5.16	101.77	105.90
136	CS	43	DA	C5-C6-N1	-5.16	115.12	117.70
144	Cb	24	DA	C5-C6-N1	-5.16	115.12	117.70
150	Ch	38	DA	C5-C6-N6	-5.16	119.57	123.70
1	AA	465	DT	C1'-O4'-C4'	-5.16	104.94	110.10
1	AA	486	DC	O4'-C1'-N1	5.16	111.61	108.00
1	AA	803	DA	C1'-O4'-C4'	-5.16	104.94	110.10
1	AA	921	DA	O4'-C4'-C3'	-5.16	102.44	104.50
1	AA	1657	DA	C5-C6-N6	-5.16	119.58	123.70
1	AA	4234	DA	C5-C6-N1	-5.16	115.12	117.70
1	AA	4665	DA	C5-C6-N1	-5.16	115.12	117.70
1	AA	6171	DA	C5-C6-N1	-5.16	115.12	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6770	DC	N3-C4-C5	-5.16	119.84	121.90
5	A3	26	DC	N3-C4-C5	-5.16	119.84	121.90
26	AQ	21	DC	N3-C4-C5	-5.16	119.84	121.90
35	AZ	28	DC	N3-C4-C5	-5.16	119.84	121.90
38	Ad	30	DA	C1'-O4'-C4'	-5.16	104.94	110.10
46	Am	41	DG	P-O3'-C3'	5.16	125.89	119.70
87	BW	30	DA	C5-C6-N1	-5.16	115.12	117.70
95	Be	23	DC	N3-C4-N4	5.16	121.61	118.00
109	Bs	30	DC	N3-C4-C5	-5.16	119.84	121.90
110	C0	5	DC	N3-C4-N4	5.16	121.61	118.00
114	C4	62	DA	C5-C6-N1	-5.16	115.12	117.70
117	C7	34	DA	C5-C6-N1	-5.16	115.12	117.70
136	CS	40	DC	N3-C4-C5	-5.16	119.84	121.90
144	Cb	27	DA	C1'-O4'-C4'	-5.16	104.94	110.10
155	Cs	22	DT	C1'-O4'-C4'	-5.16	104.94	110.10
156	Ct	32	DC	N3-C4-C5	-5.16	119.84	121.90
159	Cw	27	DA	O4'-C1'-N9	5.16	111.61	108.00
1	AA	1314	DA	C4-C5-C6	5.15	119.58	117.00
1	AA	3751	DA	C5-C6-N1	-5.15	115.12	117.70
1	AA	6128	DC	N3-C4-N4	5.15	121.61	118.00
1	AA	7086	DC	N3-C4-C5	-5.15	119.84	121.90
65	B9	3	DA	C5-C6-N1	-5.15	115.12	117.70
94	Bd	6	DA	C5-C6-N1	-5.15	115.12	117.70
110	C0	9	DA	C5-C6-N1	-5.15	115.12	117.70
130	CM	20	DA	C5-C6-N1	-5.15	115.12	117.70
152	Cp	34	DA	C5-C6-N1	-5.15	115.12	117.70
157	Cu	11	DA	C5-C6-N1	-5.15	115.12	117.70
158	Cv	12	DC	N3-C4-C5	-5.15	119.84	121.90
1	AA	697	DC	N3-C4-C5	-5.15	119.84	121.90
1	AA	2225	DA	C5-C6-N1	-5.15	115.12	117.70
1	AA	2540	DC	N3-C4-N4	5.15	121.61	118.00
1	AA	2955	DA	C5-C6-N1	-5.15	115.12	117.70
1	AA	4024	DC	N3-C4-C5	-5.15	119.84	121.90
1	AA	4487	DA	C5-C6-N1	-5.15	115.12	117.70
3	A1	5	DC	N3-C4-N4	5.15	121.61	118.00
7	A5	19	DA	C5-C6-N6	-5.15	119.58	123.70
10	A8	17	DA	C5-C6-N1	-5.15	115.12	117.70
13	AD	12	DC	C4'-C3'-C2'	-5.15	98.46	103.10
15	AF	46	DC	N3-C4-N4	5.15	121.61	118.00
19	AJ	29	DC	O4'-C4'-C3'	-5.15	102.44	104.50
28	AS	60	DC	N3-C4-C5	-5.15	119.84	121.90
39	Af	9	DC	N3-C4-C5	-5.15	119.84	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
54	Ay	7	DC	N3-C4-C5	-5.15	119.84	121.90
67	BC	16	DC	N3-C4-N4	5.15	121.61	118.00
78	BN	7	DC	N3-C4-N4	5.15	121.61	118.00
79	BO	39	DC	N3-C4-N4	5.15	121.61	118.00
82	BR	58	DC	N3-C4-N4	5.15	121.61	118.00
93	Bc	14	DC	N3-C4-N4	5.15	121.61	118.00
107	Bq	55	DA	C5-C6-N6	-5.15	119.58	123.70
147	Ce	48	DA	C5-C6-N1	-5.15	115.12	117.70
153	Cq	12	DC	N3-C4-C5	-5.15	119.84	121.90
159	Cw	48	DC	O4'-C1'-C2'	-5.15	101.78	105.90
1	AA	169	DA	C5-C6-N1	-5.15	115.12	117.70
1	AA	453	DC	N3-C4-C5	-5.15	119.84	121.90
1	AA	980	DA	C5-C6-N1	-5.15	115.12	117.70
1	AA	1544	DC	N3-C4-C5	-5.15	119.84	121.90
1	AA	1975	DT	O4'-C1'-N1	5.15	111.61	108.00
1	AA	2226	DA	C5-C6-N1	-5.15	115.12	117.70
1	AA	2806	DA	C5-C6-N1	-5.15	115.12	117.70
1	AA	2922	DC	O4'-C1'-N1	5.15	111.61	108.00
1	AA	3823	DG	P-O3'-C3'	5.15	125.88	119.70
1	AA	4220	DC	N3-C4-C5	-5.15	119.84	121.90
1	AA	4266	DA	P-O3'-C3'	5.15	125.88	119.70
1	AA	4342	DA	C1'-O4'-C4'	-5.15	104.95	110.10
1	AA	5525	DA	C5-C6-N6	-5.15	119.58	123.70
1	AA	6875	DA	C5-C6-N1	-5.15	115.12	117.70
1	AA	6948	DC	N3-C4-C5	-5.15	119.84	121.90
1	AA	7165	DT	C1'-O4'-C4'	-5.15	104.95	110.10
36	Ab	5	DC	N3-C4-C5	-5.15	119.84	121.90
46	Am	4	DC	N3-C4-N4	5.15	121.61	118.00
51	Av	35	DC	N3-C4-C5	-5.15	119.84	121.90
67	BC	10	DA	C5-C6-N1	-5.15	115.12	117.70
74	BJ	19	DC	N3-C4-C5	-5.15	119.84	121.90
79	BO	20	DT	O4'-C1'-N1	5.15	111.61	108.00
80	BP	9	DA	C5-C6-N1	-5.15	115.12	117.70
80	BP	60	DC	N3-C4-N4	5.15	121.61	118.00
85	BU	48	DC	N3-C4-N4	5.15	121.61	118.00
97	Bg	19	DC	N3-C4-N4	5.15	121.61	118.00
102	Bl	2	DA	C5-C6-N1	-5.15	115.12	117.70
115	C5	17	DA	C5-C6-N6	-5.15	119.58	123.70
124	CG	2	DC	N3-C4-N4	5.15	121.61	118.00
134	CQ	24	DC	N3-C4-N4	5.15	121.61	118.00
154	Cr	6	DC	N3-C4-N4	5.15	121.61	118.00
162	Cz	8	DC	N3-C4-N4	5.15	121.61	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	294	DC	N3-C4-C5	-5.15	119.84	121.90
1	AA	1737	DG	C1'-O4'-C4'	-5.15	104.95	110.10
1	AA	2540	DC	N3-C4-C5	-5.15	119.84	121.90
1	AA	2822	DA	C5-C6-N6	-5.15	119.58	123.70
1	AA	3054	DA	C5-C6-N1	-5.15	115.12	117.70
1	AA	6022	DA	C5-C6-N1	-5.15	115.13	117.70
1	AA	6782	DC	N3-C4-N4	5.15	121.60	118.00
3	A1	5	DC	N3-C4-C5	-5.15	119.84	121.90
3	A1	29	DA	P-O3'-C3'	5.15	125.88	119.70
21	AL	43	DA	C5-C6-N1	-5.15	115.12	117.70
55	Az	5	DA	C5-C6-N1	-5.15	115.13	117.70
96	Bf	45	DC	N3-C4-C5	-5.15	119.84	121.90
116	C6	44	DC	N3-C4-C5	-5.15	119.84	121.90
118	C8	34	DC	N3-C4-C5	-5.15	119.84	121.90
123	CF	23	DA	C5-C6-N1	-5.15	115.12	117.70
150	Ch	16	DA	C5-C6-N1	-5.15	115.12	117.70
1	AA	1009	DA	C5-C6-N1	-5.15	115.13	117.70
1	AA	1526	DC	N3-C4-C5	-5.15	119.84	121.90
1	AA	1640	DC	N3-C4-C5	-5.15	119.84	121.90
1	AA	3470	DC	C3'-C2'-C1'	-5.15	96.32	102.50
1	AA	3835	DA	C5-C6-N1	-5.15	115.13	117.70
1	AA	4565	DC	N3-C4-N4	5.15	121.60	118.00
1	AA	6878	DA	C5-C6-N1	-5.15	115.13	117.70
1	AA	6907	DC	N3-C4-C5	-5.15	119.84	121.90
1	AA	6933	DC	N3-C4-C5	-5.15	119.84	121.90
3	A1	38	DA	C5-C6-N1	-5.15	115.13	117.70
17	AH	36	DC	N3-C4-C5	-5.15	119.84	121.90
86	BV	12	DA	C5-C6-N1	-5.15	115.13	117.70
88	BX	17	DA	O4'-C1'-N9	5.15	111.60	108.00
94	Bd	51	DC	O4'-C1'-N1	5.15	111.60	108.00
96	Bf	44	DC	N3-C4-C5	-5.15	119.84	121.90
120	CC	42	DA	C5-C6-N6	-5.15	119.58	123.70
144	Cb	27	DA	C4-C5-C6	5.15	119.57	117.00
160	Cx	43	DC	N3-C4-C5	-5.15	119.84	121.90
1	AA	4810	DC	N3-C4-C5	-5.15	119.84	121.90
1	AA	5719	DA	C5-C6-N1	-5.15	115.13	117.70
1	AA	6114	DA	C5-C6-N1	-5.15	115.13	117.70
1	AA	6440	DC	C1'-O4'-C4'	-5.15	104.95	110.10
1	AA	6738	DG	O4'-C1'-N9	5.15	111.60	108.00
9	A7	9	DC	N3-C4-C5	-5.15	119.84	121.90
61	B5	39	DA	C5-C6-N1	-5.15	115.13	117.70
95	Be	6	DC	N3-C4-C5	-5.15	119.84	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	629	DC	N3-C4-C5	-5.14	119.84	121.90
1	AA	1098	DA	C5-C6-N1	-5.14	115.13	117.70
1	AA	1578	DA	C4-C5-C6	5.14	119.57	117.00
1	AA	2185	DT	C1'-O4'-C4'	-5.14	104.96	110.10
1	AA	2266	DC	N3-C4-C5	-5.14	119.84	121.90
1	AA	3172	DC	N3-C4-C5	-5.14	119.84	121.90
1	AA	3427	DA	C5-C6-N1	-5.14	115.13	117.70
1	AA	3612	DA	C5-C6-N1	-5.14	115.13	117.70
1	AA	4303	DA	C5-C6-N1	-5.14	115.13	117.70
1	AA	4600	DC	N3-C4-N4	5.14	121.60	118.00
1	AA	5070	DA	C5-C6-N1	-5.14	115.13	117.70
1	AA	6246	DA	C5-C6-N6	-5.14	119.58	123.70
1	AA	6486	DC	N3-C4-C5	-5.14	119.84	121.90
1	AA	6960	DC	N3-C4-N4	5.14	121.60	118.00
1	AA	7083	DC	N3-C4-C5	-5.14	119.84	121.90
29	AT	35	DA	C5-C6-N6	-5.14	119.58	123.70
45	Al	34	DC	N3-C4-C5	-5.14	119.84	121.90
76	BL	8	DC	N3-C4-N4	5.14	121.60	118.00
78	BN	50	DA	C5-C6-N6	-5.14	119.58	123.70
79	BO	5	DA	C5-C6-N1	-5.14	115.13	117.70
101	Bk	42	DA	P-O3'-C3'	5.14	125.87	119.70
148	Cf	7	DC	N3-C4-C5	-5.14	119.84	121.90
154	Cr	6	DC	N3-C4-C5	-5.14	119.84	121.90
155	Cs	16	DA	C5-C6-N6	-5.14	119.58	123.70
1	AA	330	DC	N3-C4-N4	5.14	121.60	118.00
1	AA	364	DA	C5-C6-N1	-5.14	115.13	117.70
1	AA	1154	DC	N3-C4-C5	-5.14	119.84	121.90
1	AA	1403	DA	C5-C6-N6	-5.14	119.59	123.70
1	AA	1435	DA	C5-C6-N1	-5.14	115.13	117.70
1	AA	1895	DA	C5-C6-N1	-5.14	115.13	117.70
1	AA	2043	DC	N3-C4-C5	-5.14	119.84	121.90
1	AA	2902	DC	N3-C4-N4	5.14	121.60	118.00
1	AA	2958	DC	N3-C4-N4	5.14	121.60	118.00
1	AA	3433	DC	N3-C4-N4	5.14	121.60	118.00
1	AA	3586	DC	P-O3'-C3'	5.14	125.87	119.70
1	AA	4181	DA	C5-C6-N1	-5.14	115.13	117.70
1	AA	4226	DC	N3-C4-C5	-5.14	119.84	121.90
1	AA	4521	DA	C1'-O4'-C4'	-5.14	104.96	110.10
1	AA	4565	DC	N3-C4-C5	-5.14	119.84	121.90
1	AA	4987	DG	P-O3'-C3'	5.14	125.87	119.70
1	AA	5727	DA	C5-C6-N6	-5.14	119.59	123.70
1	AA	6316	DA	O4'-C1'-N9	5.14	111.60	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6523	DA	C5-C6-N1	-5.14	115.13	117.70
1	AA	7107	DC	P-O3'-C3'	5.14	125.87	119.70
14	AE	7	DT	C6-C5-C7	-5.14	119.81	122.90
21	AL	38	DC	N3-C4-C5	-5.14	119.84	121.90
53	Ax	3	DA	C5-C6-N6	-5.14	119.59	123.70
60	B4	6	DA	C5-C6-N1	-5.14	115.13	117.70
70	BF	1	DC	N3-C4-C5	-5.14	119.84	121.90
129	CL	1	DA	C5-C6-N1	-5.14	115.13	117.70
137	CT	20	DA	C5-C6-N1	-5.14	115.13	117.70
137	CT	22	DA	C5-C6-N1	-5.14	115.13	117.70
1	AA	1864	DC	N3-C4-C5	-5.14	119.84	121.90
1	AA	3586	DC	N3-C4-C5	-5.14	119.84	121.90
1	AA	4942	DA	C5-C6-N1	-5.14	115.13	117.70
1	AA	5457	DA	C1'-O4'-C4'	-5.14	104.96	110.10
1	AA	5840	DC	N3-C4-C5	-5.14	119.84	121.90
1	AA	6648	DA	C5-C6-N6	-5.14	119.59	123.70
1	AA	6901	DC	O4'-C1'-N1	5.14	111.60	108.00
1	AA	7146	DC	N3-C4-C5	-5.14	119.84	121.90
38	Ad	16	DA	C5-C6-N1	-5.14	115.13	117.70
59	B3	19	DC	N3-C4-N4	5.14	121.60	118.00
66	BB	40	DC	N3-C4-C5	-5.14	119.84	121.90
95	Be	27	DA	C5-C6-N1	-5.14	115.13	117.70
100	Bj	26	DA	C5-C6-N1	-5.14	115.13	117.70
114	C4	61	DC	N3-C4-N4	5.14	121.60	118.00
141	CX	22	DA	C5-C6-N1	-5.14	115.13	117.70
150	Ch	12	DC	N3-C4-N4	5.14	121.60	118.00
153	Cq	30	DA	C5-C6-N1	-5.14	115.13	117.70
156	Ct	13	DA	C5-C6-N1	-5.14	115.13	117.70
1	AA	421	DC	N3-C4-C5	-5.14	119.84	121.90
1	AA	692	DC	N3-C4-C5	-5.14	119.84	121.90
1	AA	1328	DC	N3-C4-N4	5.14	121.60	118.00
1	AA	1471	DA	C4-C5-C6	5.14	119.57	117.00
1	AA	1494	DC	N3-C4-C5	-5.14	119.84	121.90
1	AA	1679	DC	N3-C4-C5	-5.14	119.84	121.90
1	AA	2009	DC	O4'-C1'-N1	5.14	111.60	108.00
1	AA	3710	DC	O4'-C1'-C2'	-5.14	101.79	105.90
1	AA	3937	DC	N3-C4-C5	-5.14	119.84	121.90
1	AA	4152	DC	N3-C4-N4	5.14	121.60	118.00
1	AA	6010	DA	C5-C6-N6	-5.14	119.59	123.70
1	AA	6299	DC	N3-C4-C5	-5.14	119.84	121.90
1	AA	6671	DA	C5-C6-N1	-5.14	115.13	117.70
1	AA	6861	DC	N3-C4-C5	-5.14	119.84	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6946	DC	N3-C4-N4	5.14	121.60	118.00
1	AA	7089	DC	N3-C4-C5	-5.14	119.84	121.90
18	AI	37	DA	C5-C6-N6	-5.14	119.59	123.70
29	AT	24	DC	P-O3'-C3'	5.14	125.87	119.70
46	Am	20	DC	N3-C4-C5	-5.14	119.84	121.90
67	BC	4	DC	N3-C4-C5	-5.14	119.84	121.90
70	BF	16	DA	C5-C6-N6	-5.14	119.59	123.70
70	BF	19	DA	C4-C5-C6	5.14	119.57	117.00
77	BM	18	DA	C5-C6-N1	-5.14	115.13	117.70
81	BQ	3	DC	N3-C4-C5	-5.14	119.84	121.90
90	BZ	40	DC	N3-C4-N4	5.14	121.60	118.00
111	C1	4	DC	N3-C4-C5	-5.14	119.84	121.90
127	CJ	58	DA	C5-C6-N1	-5.14	115.13	117.70
131	CN	29	DA	C5-C6-N1	-5.14	115.13	117.70
134	CQ	36	DC	N3-C4-N4	5.14	121.60	118.00
141	CX	47	DA	C5-C6-N6	-5.14	119.59	123.70
149	Cg	1	DC	N3-C4-N4	5.14	121.60	118.00
1	AA	1047	DA	C5-C6-N1	-5.14	115.13	117.70
1	AA	2139	DC	N3-C4-C5	-5.14	119.84	121.90
1	AA	2250	DC	N3-C4-C5	-5.14	119.84	121.90
1	AA	3348	DG	C3'-C2'-C1'	-5.14	96.33	102.50
1	AA	4008	DC	N3-C4-N4	5.14	121.60	118.00
1	AA	4021	DC	N3-C4-C5	-5.14	119.84	121.90
1	AA	5771	DT	C4'-C3'-C2'	-5.14	98.48	103.10
1	AA	6213	DC	N3-C4-N4	5.14	121.60	118.00
27	AR	53	DC	C4'-C3'-C2'	-5.14	98.47	103.10
57	B1	46	DA	C5-C6-N1	-5.14	115.13	117.70
72	BH	23	DA	C5-C6-N1	-5.14	115.13	117.70
75	BK	23	DC	N3-C4-C5	-5.14	119.84	121.90
78	BN	42	DC	N3-C4-N4	5.14	121.60	118.00
86	BV	15	DC	N3-C4-N4	5.14	121.60	118.00
102	Bl	35	DA	C5-C6-N1	-5.14	115.13	117.70
103	Bm	36	DC	N3-C4-N4	5.14	121.60	118.00
146	Cd	35	DA	C5-C6-N1	-5.14	115.13	117.70
157	Cu	41	DC	N3-C4-C5	-5.14	119.84	121.90
1	AA	74	DC	N3-C4-C5	-5.14	119.85	121.90
1	AA	310	DC	N3-C4-C5	-5.14	119.85	121.90
1	AA	626	DC	N3-C4-N4	5.14	121.59	118.00
1	AA	1030	DA	P-O5'-C5'	-5.14	112.68	120.90
1	AA	1056	DA	C5-C6-N1	-5.14	115.13	117.70
1	AA	1111	DC	O4'-C1'-N1	5.14	111.59	108.00
1	AA	1680	DC	N3-C4-N4	5.14	121.60	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1718	DA	C5-C6-N6	-5.14	119.59	123.70
1	AA	2169	DG	O4'-C1'-C2'	-5.14	101.79	105.90
1	AA	2636	DC	N3-C4-C5	-5.14	119.85	121.90
1	AA	3769	DC	N3-C4-N4	5.14	121.60	118.00
1	AA	4948	DA	C5-C6-N1	-5.14	115.13	117.70
1	AA	6358	DC	N3-C4-N4	5.14	121.60	118.00
1	AA	6616	DA	C5-C6-N1	-5.14	115.13	117.70
1	AA	6706	DC	N3-C4-N4	5.14	121.59	118.00
9	A7	9	DC	N3-C4-N4	5.14	121.59	118.00
9	A7	29	DA	C5-C6-N6	-5.14	119.59	123.70
29	AT	48	DA	C5-C6-N1	-5.14	115.13	117.70
53	Ax	25	DA	C5-C6-N1	-5.14	115.13	117.70
76	BL	6	DA	C5-C6-N6	-5.14	119.59	123.70
106	Bp	34	DC	N3-C4-C5	-5.14	119.84	121.90
109	Bs	12	DC	N3-C4-C5	-5.14	119.85	121.90
109	Bs	33	DA	C5-C6-N1	-5.14	115.13	117.70
112	C2	23	DC	N3-C4-C5	-5.14	119.85	121.90
114	C4	15	DC	N3-C4-C5	-5.14	119.84	121.90
127	CJ	29	DA	C5-C6-N1	-5.14	115.13	117.70
132	CO	45	DC	N3-C4-N4	5.14	121.60	118.00
133	CP	6	DC	N3-C4-C5	-5.14	119.84	121.90
146	Cd	14	DC	N3-C4-C5	-5.14	119.84	121.90
1	AA	401	DC	N3-C4-N4	5.13	121.59	118.00
1	AA	803	DA	C5-C6-N1	-5.13	115.13	117.70
1	AA	1259	DA	C5-C6-N1	-5.13	115.13	117.70
1	AA	1545	DC	N3-C4-N4	5.13	121.59	118.00
1	AA	1624	DA	P-O5'-C5'	-5.13	112.68	120.90
1	AA	3050	DA	C5-C6-N1	-5.13	115.13	117.70
1	AA	3467	DC	N3-C4-N4	5.13	121.59	118.00
1	AA	3574	DA	C5-C6-N1	-5.13	115.13	117.70
1	AA	5018	DA	C5-C6-N1	-5.13	115.13	117.70
1	AA	5505	DA	O4'-C4'-C3'	-5.13	102.45	104.50
1	AA	5795	DC	O4'-C4'-C3'	-5.13	102.45	104.50
1	AA	6000	DC	N3-C4-N4	5.13	121.59	118.00
1	AA	6289	DC	N3-C4-C5	-5.13	119.85	121.90
1	AA	6746	DC	N3-C4-N4	5.13	121.59	118.00
23	AN	40	DC	N3-C4-C5	-5.13	119.85	121.90
26	AQ	38	DG	C4-N9-C1'	5.13	133.18	126.50
28	AS	8	DA	C5-C6-N1	-5.13	115.13	117.70
29	AT	11	DA	C5-C6-N1	-5.13	115.13	117.70
39	Af	7	DC	O4'-C1'-N1	5.13	111.59	108.00
44	Ak	6	DA	C5-C6-N6	-5.13	119.59	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
49	As	25	DA	C5-C6-N1	-5.13	115.13	117.70
53	Ax	14	DT	P-O3'-C3'	5.13	125.86	119.70
56	B0	38	DA	C5-C6-N6	-5.13	119.59	123.70
59	B3	3	DT	P-O3'-C3'	5.13	125.86	119.70
74	BJ	6	DC	N3-C4-C5	-5.13	119.85	121.90
101	Bk	7	DA	C5-C6-N6	-5.13	119.59	123.70
106	Bp	3	DA	C5-C6-N1	-5.13	115.13	117.70
110	C0	35	DC	N3-C4-N4	5.13	121.59	118.00
116	C6	30	DC	N3-C4-C5	-5.13	119.85	121.90
135	CR	25	DC	N3-C4-N4	5.13	121.59	118.00
138	CU	24	DA	C5-C6-N1	-5.13	115.13	117.70
145	Cc	22	DA	C5-C6-N1	-5.13	115.13	117.70
1	AA	136	DC	N3-C4-N4	5.13	121.59	118.00
1	AA	217	DA	C5-C6-N1	-5.13	115.13	117.70
1	AA	1813	DC	N3-C4-C5	-5.13	119.85	121.90
1	AA	1860	DA	C5-C6-N1	-5.13	115.13	117.70
1	AA	3301	DA	C5-C6-N6	-5.13	119.59	123.70
1	AA	3686	DC	N3-C4-N4	5.13	121.59	118.00
1	AA	4165	DA	C5-C6-N1	-5.13	115.13	117.70
1	AA	5299	DG	C1'-O4'-C4'	-5.13	104.97	110.10
1	AA	6056	DC	N3-C4-N4	5.13	121.59	118.00
82	BR	41	DG	O4'-C1'-C2'	-5.13	101.79	105.90
158	Cv	30	DC	N3-C4-N4	5.13	121.59	118.00
1	AA	79	DC	N3-C4-N4	5.13	121.59	118.00
1	AA	433	DA	C5-C6-N1	-5.13	115.13	117.70
1	AA	521	DC	N3-C4-N4	5.13	121.59	118.00
1	AA	734	DC	N3-C4-N4	5.13	121.59	118.00
1	AA	1028	DA	P-O3'-C3'	5.13	125.86	119.70
1	AA	1038	DA	C5-C6-N1	-5.13	115.13	117.70
1	AA	1280	DC	N3-C4-N4	5.13	121.59	118.00
1	AA	1308	DA	C5-C6-N1	-5.13	115.13	117.70
1	AA	2228	DC	N3-C4-C5	-5.13	119.85	121.90
1	AA	3893	DC	N3-C4-C5	-5.13	119.85	121.90
1	AA	4182	DC	N3-C4-C5	-5.13	119.85	121.90
1	AA	4727	DA	C5-C6-N1	-5.13	115.13	117.70
1	AA	5690	DA	C5-C6-N1	-5.13	115.13	117.70
1	AA	6748	DA	C5-C6-N1	-5.13	115.13	117.70
20	AK	22	DA	C5-C6-N1	-5.13	115.14	117.70
31	AV	9	DC	N3-C4-N4	5.13	121.59	118.00
35	AZ	40	DA	C5-C6-N1	-5.13	115.13	117.70
40	Ag	46	DC	C4'-C3'-C2'	-5.13	98.48	103.10
44	Ak	6	DA	C5-C6-N1	-5.13	115.13	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
45	Al	8	DC	N3-C4-C5	-5.13	119.85	121.90
46	Am	14	DA	C1'-O4'-C4'	-5.13	104.97	110.10
50	Au	13	DC	N3-C4-C5	-5.13	119.85	121.90
60	B4	27	DA	C5-C6-N1	-5.13	115.13	117.70
71	BG	33	DC	N3-C4-N4	5.13	121.59	118.00
79	BO	42	DC	N3-C4-N4	5.13	121.59	118.00
93	Bc	8	DC	N3-C4-C5	-5.13	119.85	121.90
93	Bc	50	DG	C1'-O4'-C4'	-5.13	104.97	110.10
120	CC	15	DA	C5-C6-N1	-5.13	115.13	117.70
124	CG	19	DC	N3-C4-C5	-5.13	119.85	121.90
125	CH	15	DA	C5-C6-N1	-5.13	115.13	117.70
139	CV	12	DA	C5-C6-N6	-5.13	119.59	123.70
143	CZ	44	DA	C5-C6-N1	-5.13	115.14	117.70
148	Cf	46	DG	O4'-C1'-N9	5.13	111.59	108.00
1	AA	1658	DC	N3-C4-N4	5.13	121.59	118.00
1	AA	2049	DC	N3-C4-C5	-5.13	119.85	121.90
1	AA	3448	DC	N3-C4-N4	5.13	121.59	118.00
1	AA	4093	DC	N3-C4-C5	-5.13	119.85	121.90
1	AA	4979	DC	N3-C4-C5	-5.13	119.85	121.90
1	AA	5056	DA	C5-C6-N1	-5.13	115.14	117.70
113	C3	10	DA	O4'-C1'-N9	5.13	111.59	108.00
148	Cf	5	DC	N3-C4-N4	5.13	121.59	118.00
1	AA	20	DC	N3-C4-C5	-5.13	119.85	121.90
1	AA	460	DC	N3-C4-C5	-5.13	119.85	121.90
1	AA	477	DC	N3-C4-N4	5.13	121.59	118.00
1	AA	1016	DA	C5-C6-N1	-5.13	115.14	117.70
1	AA	1126	DC	N3-C4-N4	5.13	121.59	118.00
1	AA	2466	DT	P-O5'-C5'	5.13	129.10	120.90
1	AA	2488	DT	P-O3'-C3'	5.13	125.85	119.70
1	AA	2510	DA	C5-C6-N1	-5.13	115.14	117.70
1	AA	2598	DC	N3-C4-C5	-5.13	119.85	121.90
1	AA	2924	DC	N3-C4-C5	-5.13	119.85	121.90
1	AA	3141	DC	N3-C4-C5	-5.13	119.85	121.90
1	AA	3617	DA	C5-C6-N6	-5.13	119.60	123.70
1	AA	3941	DC	N3-C4-C5	-5.13	119.85	121.90
1	AA	4190	DC	N3-C4-C5	-5.13	119.85	121.90
1	AA	5056	DA	C3'-C2'-C1'	-5.13	96.35	102.50
1	AA	6314	DC	N3-C4-N4	5.13	121.59	118.00
1	AA	6641	DC	N3-C4-C5	-5.13	119.85	121.90
9	A7	48	DC	O4'-C1'-N1	5.13	111.59	108.00
19	AJ	34	DC	N3-C4-N4	5.13	121.59	118.00
27	AR	13	DA	C5-C6-N1	-5.13	115.14	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	Af	7	DC	N3-C4-N4	5.13	121.59	118.00
39	Af	14	DG	O4'-C1'-N9	5.13	111.59	108.00
43	Aj	15	DA	C5-C6-N6	-5.13	119.60	123.70
43	Aj	15	DA	O4'-C1'-N9	5.13	111.59	108.00
43	Aj	44	DA	C5-C6-N1	-5.13	115.14	117.70
50	Au	5	DT	P-O5'-C5'	-5.13	112.70	120.90
63	B7	29	DA	C5-C6-N1	-5.13	115.14	117.70
96	Bf	30	DC	N3-C4-C5	-5.13	119.85	121.90
125	CH	41	DA	C5-C6-N1	-5.13	115.14	117.70
144	Cb	7	DA	C5-C6-N1	-5.13	115.14	117.70
162	Cz	22	DC	N3-C4-C5	-5.13	119.85	121.90
1	AA	195	DC	N3-C4-N4	5.13	121.59	118.00
1	AA	678	DC	N3-C4-N4	5.13	121.59	118.00
1	AA	822	DA	C5-C6-N1	-5.13	115.14	117.70
1	AA	828	DC	N3-C4-N4	5.13	121.59	118.00
1	AA	2542	DC	N3-C4-C5	-5.13	119.85	121.90
1	AA	3635	DA	C5-C6-N1	-5.13	115.14	117.70
1	AA	4249	DC	N3-C4-C5	-5.13	119.85	121.90
1	AA	5227	DA	C1'-O4'-C4'	-5.13	104.97	110.10
1	AA	5614	DA	C5-C6-N6	-5.13	119.60	123.70
1	AA	6302	DC	N3-C4-N4	5.13	121.59	118.00
1	AA	6773	DC	N3-C4-C5	-5.13	119.85	121.90
1	AA	6842	DA	C5-C6-N1	-5.13	115.14	117.70
1	AA	7077	DC	N3-C4-N4	5.13	121.59	118.00
1	AA	7216	DT	O4'-C1'-N1	5.13	111.59	108.00
12	AC	18	DC	N3-C4-C5	-5.13	119.85	121.90
22	AM	38	DC	N3-C4-N4	5.13	121.59	118.00
83	BS	13	DC	N3-C4-C5	-5.13	119.85	121.90
84	BT	51	DC	N3-C4-N4	5.13	121.59	118.00
88	BX	2	DC	N3-C4-N4	5.13	121.59	118.00
89	BY	12	DC	O4'-C1'-N1	5.13	111.59	108.00
113	C3	28	DA	C5-C6-N1	-5.13	115.14	117.70
123	CF	10	DA	C5-C6-N1	-5.13	115.14	117.70
124	CG	35	DC	N3-C4-N4	5.13	121.59	118.00
129	CL	5	DA	C5-C6-N1	-5.13	115.14	117.70
138	CU	3	DA	C5-C6-N6	-5.13	119.60	123.70
152	Cp	5	DA	C5-C6-N1	-5.13	115.14	117.70
153	Cq	38	DC	N3-C4-C5	-5.13	119.85	121.90
160	Cx	28	DC	N3-C4-C5	-5.13	119.85	121.90
1	AA	1531	DA	C5-C6-N1	-5.12	115.14	117.70
1	AA	2201	DC	N3-C4-C5	-5.12	119.85	121.90
1	AA	2561	DC	N3-C4-C5	-5.12	119.85	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3773	DC	N3-C4-N4	5.12	121.59	118.00
1	AA	5444	DA	C5-C6-N1	-5.12	115.14	117.70
1	AA	5819	DC	N3-C4-C5	-5.12	119.85	121.90
1	AA	6239	DC	N3-C4-N4	5.12	121.59	118.00
1	AA	6439	DA	C3'-C2'-C1'	-5.12	96.35	102.50
1	AA	7119	DC	C1'-O4'-C4'	-5.12	104.97	110.10
26	AQ	41	DA	C5-C6-N1	-5.12	115.14	117.70
76	BL	14	DT	O4'-C1'-N1	5.12	111.59	108.00
87	BW	53	DA	C5-C6-N1	-5.12	115.14	117.70
103	Bm	39	DA	C5-C6-N1	-5.12	115.14	117.70
122	CE	39	DC	O4'-C1'-N1	5.12	111.59	108.00
126	CI	27	DA	C5-C6-N1	-5.12	115.14	117.70
1	AA	55	DC	N3-C4-N4	5.12	121.59	118.00
1	AA	68	DC	N3-C4-C5	-5.12	119.85	121.90
1	AA	327	DC	N3-C4-C5	-5.12	119.85	121.90
1	AA	770	DC	N3-C4-N4	5.12	121.59	118.00
1	AA	816	DA	C5-C6-N1	-5.12	115.14	117.70
1	AA	1748	DC	N3-C4-N4	5.12	121.59	118.00
1	AA	1947	DC	O4'-C1'-N1	5.12	111.59	108.00
1	AA	2030	DC	N3-C4-C5	-5.12	119.85	121.90
1	AA	2073	DC	O4'-C1'-C2'	-5.12	101.80	105.90
1	AA	3219	DA	C5-C6-N1	-5.12	115.14	117.70
1	AA	4460	DA	C5-C6-N6	-5.12	119.60	123.70
1	AA	5416	DA	C4-C5-C6	5.12	119.56	117.00
1	AA	5576	DA	C5-C6-N6	-5.12	119.60	123.70
1	AA	6528	DC	N3-C4-C5	-5.12	119.85	121.90
1	AA	7241	DC	N3-C4-N4	5.12	121.59	118.00
47	An	42	DA	C5-C6-N1	-5.12	115.14	117.70
84	BT	26	DC	N3-C4-C5	-5.12	119.85	121.90
95	Be	16	DC	N3-C4-C5	-5.12	119.85	121.90
99	Bi	16	DA	C5-C6-N1	-5.12	115.14	117.70
109	Bs	41	DA	C5-C6-N1	-5.12	115.14	117.70
111	C1	36	DA	C5-C6-N1	-5.12	115.14	117.70
112	C2	10	DG	P-O3'-C3'	5.12	125.85	119.70
114	C4	47	DA	C5-C6-N1	-5.12	115.14	117.70
115	C5	53	DC	N3-C4-N4	5.12	121.59	118.00
131	CN	9	DC	N3-C4-N4	5.12	121.59	118.00
145	Cc	1	DA	O4'-C1'-N9	5.12	111.59	108.00
146	Cd	41	DA	C5-C6-N1	-5.12	115.14	117.70
152	Cp	37	DC	N3-C4-C5	-5.12	119.85	121.90
1	AA	125	DC	N3-C4-C5	-5.12	119.85	121.90
1	AA	401	DC	N3-C4-C5	-5.12	119.85	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1112	DA	C5-C6-N6	-5.12	119.60	123.70
1	AA	1244	DC	N3-C4-C5	-5.12	119.85	121.90
1	AA	1885	DC	N3-C4-N4	5.12	121.59	118.00
1	AA	3629	DC	N3-C4-C5	-5.12	119.85	121.90
1	AA	3984	DC	N3-C4-C5	-5.12	119.85	121.90
1	AA	4833	DA	C5-C6-N1	-5.12	115.14	117.70
1	AA	5126	DA	C5-C6-N6	-5.12	119.60	123.70
1	AA	5994	DC	N3-C4-N4	5.12	121.58	118.00
1	AA	7102	DC	N3-C4-C5	-5.12	119.85	121.90
6	A4	23	DA	C5-C6-N1	-5.12	115.14	117.70
20	AK	46	DA	C5-C6-N1	-5.12	115.14	117.70
38	Ad	33	DC	N3-C4-C5	-5.12	119.85	121.90
42	Ai	2	DA	C5-C6-N1	-5.12	115.14	117.70
54	Ay	31	DA	C5-C6-N1	-5.12	115.14	117.70
56	B0	21	DC	P-O3'-C3'	5.12	125.85	119.70
61	B5	13	DA	C5-C6-N1	-5.12	115.14	117.70
79	BO	25	DC	N3-C4-N4	5.12	121.58	118.00
81	BQ	26	DC	N3-C4-N4	5.12	121.58	118.00
96	Bf	21	DG	C3'-C2'-C1'	-5.12	96.36	102.50
101	Bk	26	DA	C5-C6-N1	-5.12	115.14	117.70
126	CI	28	DC	N3-C4-C5	-5.12	119.85	121.90
141	CX	6	DC	N3-C4-N4	5.12	121.58	118.00
155	Cs	44	DA	C5-C6-N1	-5.12	115.14	117.70
157	Cu	56	DC	N3-C4-N4	5.12	121.58	118.00
1	AA	399	DA	C5-C6-N6	-5.12	119.60	123.70
1	AA	485	DA	C5-C6-N1	-5.12	115.14	117.70
1	AA	630	DC	N3-C4-C5	-5.12	119.85	121.90
1	AA	1244	DC	N3-C4-N4	5.12	121.58	118.00
1	AA	2813	DC	N3-C4-N4	5.12	121.58	118.00
1	AA	5883	DC	N3-C4-C5	-5.12	119.85	121.90
1	AA	7058	DA	C5-C6-N6	-5.12	119.60	123.70
11	AB	32	DC	N3-C4-N4	5.12	121.58	118.00
22	AM	32	DC	N3-C4-C5	-5.12	119.85	121.90
26	AQ	29	DA	C5-C6-N6	-5.12	119.60	123.70
34	AY	16	DC	O4'-C1'-N1	5.12	111.58	108.00
54	Ay	38	DA	C5-C6-N1	-5.12	115.14	117.70
72	BH	14	DA	C5-C6-N6	-5.12	119.60	123.70
99	Bi	10	DC	N3-C4-N4	5.12	121.58	118.00
125	CH	42	DC	O4'-C1'-N1	5.12	111.58	108.00
1	AA	368	DC	N3-C4-C5	-5.12	119.85	121.90
1	AA	531	DC	N3-C4-C5	-5.12	119.85	121.90
1	AA	614	DC	N3-C4-N4	5.12	121.58	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1045	DA	C5-C6-N6	-5.12	119.61	123.70
1	AA	1739	DA	C5-C6-N6	-5.12	119.61	123.70
1	AA	2066	DC	N3-C4-N4	5.12	121.58	118.00
1	AA	2605	DT	O4'-C1'-C2'	-5.12	101.81	105.90
1	AA	3293	DC	O4'-C1'-C2'	-5.12	101.81	105.90
1	AA	4392	DC	N3-C4-C5	-5.12	119.85	121.90
1	AA	4491	DC	N3-C4-C5	-5.12	119.85	121.90
1	AA	4864	DC	N3-C4-N4	5.12	121.58	118.00
1	AA	5839	DA	C5-C6-N1	-5.12	115.14	117.70
1	AA	6472	DG	C4-N9-C1'	-5.12	119.85	126.50
8	A6	32	DC	C4'-C3'-C2'	-5.12	98.49	103.10
13	AD	2	DA	C5-C6-N1	-5.12	115.14	117.70
18	AI	8	DA	C5-C6-N1	-5.12	115.14	117.70
42	Ai	13	DA	C5-C6-N1	-5.12	115.14	117.70
57	B1	11	DC	N3-C4-C5	-5.12	119.85	121.90
91	Ba	12	DA	C5-C6-N1	-5.12	115.14	117.70
106	Bp	11	DC	N3-C4-C5	-5.12	119.85	121.90
133	CP	4	DA	C5-C6-N6	-5.12	119.61	123.70
135	CR	30	DC	N3-C4-C5	-5.12	119.85	121.90
138	CU	4	DA	C5-C6-N1	-5.12	115.14	117.70
141	CX	9	DC	P-O3'-C3'	5.12	125.84	119.70
151	Ck	23	DC	N3-C4-C5	-5.12	119.85	121.90
152	Cp	42	DA	C5-C6-N1	-5.12	115.14	117.70
1	AA	700	DG	P-O3'-C3'	5.12	125.84	119.70
1	AA	1769	DC	N3-C4-C5	-5.12	119.85	121.90
1	AA	2821	DA	C5-C6-N1	-5.12	115.14	117.70
1	AA	3761	DC	N3-C4-C5	-5.12	119.85	121.90
1	AA	4409	DC	P-O3'-C3'	5.12	125.84	119.70
1	AA	4824	DA	C5-C6-N1	-5.12	115.14	117.70
1	AA	5784	DA	C5-C6-N1	-5.12	115.14	117.70
1	AA	7046	DA	C5-C6-N1	-5.12	115.14	117.70
32	AW	44	DA	C5-C6-N1	-5.12	115.14	117.70
35	AZ	42	DC	N3-C4-C5	-5.12	119.85	121.90
47	An	25	DA	C5-C6-N1	-5.12	115.14	117.70
71	BG	3	DA	O4'-C1'-C2'	-5.12	101.81	105.90
140	CW	20	DA	P-O5'-C5'	-5.12	112.71	120.90
143	CZ	40	DC	N3-C4-C5	-5.12	119.85	121.90
156	Ct	37	DC	N3-C4-N4	5.12	121.58	118.00
157	Cu	58	DC	N3-C4-C5	-5.12	119.85	121.90
1	AA	533	DA	C5-C6-N6	-5.12	119.61	123.70
1	AA	844	DC	N3-C4-C5	-5.12	119.85	121.90
1	AA	1400	DC	N3-C4-C5	-5.12	119.85	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1713	DT	C3'-C2'-C1'	-5.12	96.36	102.50
1	AA	1754	DC	N3-C4-C5	-5.12	119.85	121.90
1	AA	1958	DA	C5-C6-N1	-5.12	115.14	117.70
1	AA	2165	DC	N3-C4-N4	5.12	121.58	118.00
1	AA	3212	DA	C5-C6-N1	-5.12	115.14	117.70
1	AA	3637	DC	N3-C4-C5	-5.12	119.85	121.90
1	AA	5113	DC	N3-C4-C5	-5.12	119.85	121.90
1	AA	5212	DA	C5-C6-N1	-5.12	115.14	117.70
1	AA	6089	DC	N3-C4-N4	5.12	121.58	118.00
1	AA	6282	DC	N3-C4-C5	-5.12	119.85	121.90
1	AA	6662	DA	C5-C6-N1	-5.12	115.14	117.70
1	AA	7018	DC	N3-C4-N4	5.12	121.58	118.00
34	AY	18	DC	N3-C4-C5	-5.12	119.85	121.90
46	Am	30	DC	O4'-C1'-N1	5.12	111.58	108.00
63	B7	19	DC	N3-C4-N4	5.12	121.58	118.00
71	BG	38	DA	O4'-C1'-N9	5.12	111.58	108.00
82	BR	55	DG	P-O3'-C3'	5.12	125.84	119.70
99	Bi	36	DC	N3-C4-C5	-5.12	119.85	121.90
99	Bi	52	DC	N3-C4-C5	-5.12	119.85	121.90
108	Br	13	DC	N3-C4-C5	-5.12	119.85	121.90
109	Bs	18	DA	C5-C6-N1	-5.12	115.14	117.70
116	C6	42	DC	N3-C4-C5	-5.12	119.85	121.90
125	CH	2	DA	C5-C6-N1	-5.12	115.14	117.70
147	Ce	50	DC	N3-C4-C5	-5.12	119.85	121.90
154	Cr	5	DA	C5-C6-N1	-5.12	115.14	117.70
1	AA	127	DA	C5-C6-N1	-5.11	115.14	117.70
1	AA	461	DA	C5-C6-N1	-5.11	115.14	117.70
1	AA	739	DA	C5-C6-N6	-5.11	119.61	123.70
1	AA	1515	DT	O4'-C1'-N1	5.11	111.58	108.00
1	AA	2601	DC	N3-C4-C5	-5.11	119.86	121.90
1	AA	2603	DC	N3-C4-N4	5.11	121.58	118.00
1	AA	2622	DC	N3-C4-C5	-5.11	119.86	121.90
1	AA	2768	DC	N3-C4-N4	5.11	121.58	118.00
1	AA	2868	DC	N3-C4-C5	-5.11	119.86	121.90
1	AA	4952	DA	C4-C5-C6	5.11	119.56	117.00
1	AA	5270	DC	P-O3'-C3'	5.11	125.84	119.70
1	AA	5408	DA	C5-C6-N6	-5.11	119.61	123.70
1	AA	5508	DT	C3'-C2'-C1'	-5.11	96.36	102.50
1	AA	5680	DA	C5-C6-N1	-5.11	115.14	117.70
1	AA	6139	DA	C5-C6-N6	-5.11	119.61	123.70
1	AA	6294	DC	N3-C4-N4	5.11	121.58	118.00
1	AA	6713	DC	N3-C4-C5	-5.11	119.85	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6841	DC	N3-C4-N4	5.11	121.58	118.00
12	AC	29	DC	N3-C4-C5	-5.11	119.86	121.90
15	AF	6	DC	N3-C4-N4	5.11	121.58	118.00
35	AZ	32	DC	P-O5'-C5'	-5.11	112.72	120.90
53	Ax	18	DC	N3-C4-C5	-5.11	119.86	121.90
55	Az	32	DA	C5-C6-N1	-5.11	115.14	117.70
73	BI	6	DA	C5-C6-N1	-5.11	115.14	117.70
78	BN	26	DA	C5-C6-N1	-5.11	115.14	117.70
85	BU	34	DC	N3-C4-C5	-5.11	119.85	121.90
94	Bd	15	DC	N3-C4-C5	-5.11	119.85	121.90
104	Bn	23	DC	N3-C4-N4	5.11	121.58	118.00
112	C2	4	DA	C5-C6-N1	-5.11	115.14	117.70
115	C5	43	DA	C5-C6-N6	-5.11	119.61	123.70
133	CP	46	DC	N3-C4-C5	-5.11	119.85	121.90
134	CQ	14	DA	C5-C6-N1	-5.11	115.14	117.70
143	CZ	25	DA	C5-C6-N6	-5.11	119.61	123.70
1	AA	1097	DT	O4'-C1'-N1	5.11	111.58	108.00
1	AA	1429	DG	C3'-C2'-C1'	-5.11	96.37	102.50
1	AA	3646	DA	C5-C6-N1	-5.11	115.14	117.70
1	AA	5119	DC	N3-C4-N4	5.11	121.58	118.00
1	AA	5940	DC	N3-C4-N4	5.11	121.58	118.00
1	AA	6900	DA	C5-C6-N1	-5.11	115.14	117.70
1	AA	7027	DC	N3-C4-N4	5.11	121.58	118.00
38	Ad	25	DC	N3-C4-C5	-5.11	119.86	121.90
51	Av	10	DC	N3-C4-N4	5.11	121.58	118.00
66	BB	2	DC	N3-C4-C5	-5.11	119.86	121.90
72	BH	2	DA	C5-C6-N1	-5.11	115.14	117.70
75	BK	26	DA	C5-C6-N1	-5.11	115.14	117.70
112	C2	55	DC	N3-C4-C5	-5.11	119.86	121.90
129	CL	22	DA	C5-C6-N6	-5.11	119.61	123.70
133	CP	11	DA	C5-C6-N6	-5.11	119.61	123.70
156	Ct	6	DC	N3-C4-N4	5.11	121.58	118.00
1	AA	263	DC	N3-C4-C5	-5.11	119.86	121.90
1	AA	524	DC	N3-C4-N4	5.11	121.58	118.00
1	AA	828	DC	N3-C4-C5	-5.11	119.86	121.90
1	AA	1166	DC	N3-C4-C5	-5.11	119.86	121.90
1	AA	2362	DT	P-O3'-C3'	5.11	125.83	119.70
1	AA	2572	DA	C5-C6-N1	-5.11	115.14	117.70
1	AA	2830	DA	C5-C6-N1	-5.11	115.14	117.70
1	AA	3862	DC	N3-C4-C5	-5.11	119.86	121.90
1	AA	4271	DC	N3-C4-N4	5.11	121.58	118.00
1	AA	6356	DA	C5-C6-N1	-5.11	115.14	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	AB	20	DC	N3-C4-C5	-5.11	119.86	121.90
23	AN	16	DC	N3-C4-N4	5.11	121.58	118.00
25	AP	13	DC	N3-C4-C5	-5.11	119.86	121.90
39	Af	35	DC	N3-C4-N4	5.11	121.58	118.00
89	BY	22	DA	C5-C6-N1	-5.11	115.14	117.70
91	Ba	27	DC	N3-C4-N4	5.11	121.58	118.00
111	C1	8	DA	C5-C6-N6	-5.11	119.61	123.70
115	C5	9	DC	N3-C4-C5	-5.11	119.86	121.90
117	C7	8	DA	C5-C6-N6	-5.11	119.61	123.70
138	CU	25	DC	N3-C4-N4	5.11	121.58	118.00
151	Ck	25	DC	N3-C4-N4	5.11	121.58	118.00
1	AA	1122	DC	N3-C4-N4	5.11	121.58	118.00
1	AA	1556	DC	N3-C4-N4	5.11	121.58	118.00
1	AA	1663	DA	C5-C6-N6	-5.11	119.61	123.70
1	AA	2165	DC	N3-C4-C5	-5.11	119.86	121.90
1	AA	5862	DC	N3-C4-N4	5.11	121.58	118.00
1	AA	6978	DC	N3-C4-N4	5.11	121.58	118.00
1	AA	7047	DC	N3-C4-C5	-5.11	119.86	121.90
11	AB	36	DA	C5-C6-N1	-5.11	115.14	117.70
29	AT	46	DA	C5-C6-N6	-5.11	119.61	123.70
42	Ai	2	DA	O4'-C1'-N9	5.11	111.58	108.00
86	BV	28	DA	C5-C6-N1	-5.11	115.14	117.70
114	C4	60	DT	P-O3'-C3'	5.11	125.83	119.70
114	C4	63	DA	C5-C6-N1	-5.11	115.14	117.70
152	Cp	17	DA	C5-C6-N1	-5.11	115.14	117.70
157	Cu	19	DC	N3-C4-C5	-5.11	119.86	121.90
158	Cv	9	DC	N3-C4-N4	5.11	121.58	118.00
1	AA	992	DA	C5-C6-N1	-5.11	115.15	117.70
1	AA	1040	DC	N3-C4-N4	5.11	121.58	118.00
1	AA	1389	DG	C1'-O4'-C4'	-5.11	104.99	110.10
1	AA	2389	DC	N3-C4-N4	5.11	121.58	118.00
1	AA	2877	DC	N3-C4-C5	-5.11	119.86	121.90
1	AA	3340	DC	N3-C4-N4	5.11	121.58	118.00
1	AA	3825	DG	O4'-C1'-N9	5.11	111.58	108.00
1	AA	4801	DA	O4'-C1'-N9	5.11	111.58	108.00
1	AA	6222	DA	C5-C6-N1	-5.11	115.15	117.70
4	A2	34	DA	P-O3'-C3'	5.11	125.83	119.70
16	AG	28	DA	C5-C6-N1	-5.11	115.15	117.70
24	AO	18	DC	N3-C4-N4	5.11	121.58	118.00
45	Al	7	DG	C4'-C3'-C2'	-5.11	98.50	103.10
48	Ao	27	DA	C5-C6-N1	-5.11	115.15	117.70
50	Au	11	DC	N3-C4-N4	5.11	121.58	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
77	BM	46	DC	N3-C4-C5	-5.11	119.86	121.90
78	BN	11	DC	P-O5'-C5'	-5.11	112.73	120.90
92	Bb	8	DC	N3-C4-N4	5.11	121.58	118.00
93	Bc	46	DC	N3-C4-C5	-5.11	119.86	121.90
114	C4	53	DA	C5-C6-N1	-5.11	115.15	117.70
114	C4	58	DC	N3-C4-N4	5.11	121.58	118.00
115	C5	16	DA	C5-C6-N6	-5.11	119.61	123.70
129	CL	3	DC	N3-C4-N4	5.11	121.58	118.00
148	Cf	23	DC	O4'-C1'-C2'	-5.11	101.81	105.90
149	Cg	28	DA	C5-C6-N1	-5.11	115.15	117.70
1	AA	241	DC	N3-C4-N4	5.11	121.57	118.00
1	AA	342	DC	N3-C4-C5	-5.11	119.86	121.90
1	AA	977	DC	N3-C4-N4	5.11	121.57	118.00
1	AA	1942	DA	C4-C5-C6	5.11	119.55	117.00
1	AA	2385	DC	N3-C4-C5	-5.11	119.86	121.90
1	AA	3110	DC	N3-C4-C5	-5.11	119.86	121.90
1	AA	3391	DC	N3-C4-C5	-5.11	119.86	121.90
1	AA	3701	DC	N3-C4-C5	-5.11	119.86	121.90
1	AA	3999	DA	C5-C6-N1	-5.11	115.15	117.70
1	AA	4036	DC	N3-C4-N4	5.11	121.57	118.00
1	AA	4472	DA	C5-C6-N1	-5.11	115.15	117.70
1	AA	4567	DC	N3-C4-N4	5.11	121.57	118.00
1	AA	4925	DC	N3-C4-N4	5.11	121.57	118.00
1	AA	6163	DG	P-O5'-C5'	-5.11	112.73	120.90
1	AA	6372	DA	C5-C6-N1	-5.11	115.15	117.70
1	AA	7067	DC	N3-C4-N4	5.11	121.57	118.00
13	AD	34	DC	O4'-C1'-N1	5.11	111.57	108.00
21	AL	46	DC	N3-C4-C5	-5.11	119.86	121.90
33	AX	46	DC	N3-C4-N4	5.11	121.57	118.00
42	Ai	6	DA	C5-C6-N1	-5.11	115.15	117.70
56	B0	42	DA	C4'-C3'-C2'	-5.11	98.50	103.10
98	Bh	5	DA	C5-C6-N1	-5.11	115.15	117.70
98	Bh	48	DA	C5-C6-N1	-5.11	115.15	117.70
136	CS	35	DG	C3'-C2'-C1'	-5.11	96.37	102.50
158	Cv	9	DC	N3-C4-C5	-5.11	119.86	121.90
159	Cw	13	DC	N3-C4-N4	5.11	121.58	118.00
1	AA	482	DA	C5-C6-N1	-5.10	115.15	117.70
1	AA	1656	DA	C5-C6-N1	-5.10	115.15	117.70
1	AA	2246	DC	N3-C4-C5	-5.10	119.86	121.90
1	AA	2850	DC	N3-C4-C5	-5.10	119.86	121.90
1	AA	4728	DA	C5-C6-N1	-5.10	115.15	117.70
1	AA	5664	DT	P-O3'-C3'	5.10	125.83	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	7059	DC	N3-C4-C5	-5.10	119.86	121.90
23	AN	45	DC	N3-C4-N4	5.10	121.57	118.00
47	An	3	DC	N3-C4-C5	-5.10	119.86	121.90
53	Ax	33	DC	N3-C4-N4	5.10	121.57	118.00
80	BP	11	DC	N3-C4-C5	-5.10	119.86	121.90
91	Ba	24	DC	N3-C4-N4	5.10	121.57	118.00
111	C1	5	DA	C5-C6-N6	-5.10	119.62	123.70
1	AA	412	DC	N3-C4-C5	-5.10	119.86	121.90
1	AA	856	DC	N3-C4-C5	-5.10	119.86	121.90
1	AA	1112	DA	C5-C6-N1	-5.10	115.15	117.70
1	AA	1226	DC	N3-C4-C5	-5.10	119.86	121.90
1	AA	1284	DC	N3-C4-N4	5.10	121.57	118.00
1	AA	2071	DA	C5-C6-N1	-5.10	115.15	117.70
1	AA	2601	DC	N3-C4-N4	5.10	121.57	118.00
1	AA	3300	DC	O4'-C1'-C2'	-5.10	101.82	105.90
1	AA	3692	DC	N3-C4-C5	-5.10	119.86	121.90
1	AA	4288	DT	C1'-O4'-C4'	-5.10	105.00	110.10
1	AA	4339	DC	N3-C4-C5	-5.10	119.86	121.90
1	AA	4748	DA	O4'-C1'-C2'	-5.10	101.82	105.90
1	AA	5446	DT	C3'-C2'-C1'	-5.10	96.38	102.50
1	AA	6194	DA	O4'-C1'-N9	5.10	111.57	108.00
1	AA	6587	DT	O4'-C1'-N1	5.10	111.57	108.00
1	AA	6815	DC	N3-C4-C5	-5.10	119.86	121.90
4	A2	40	DA	O4'-C4'-C3'	-5.10	102.46	104.50
17	AH	35	DC	N3-C4-N4	5.10	121.57	118.00
35	AZ	2	DA	O4'-C1'-N9	5.10	111.57	108.00
40	Ag	20	DA	C5-C6-N1	-5.10	115.15	117.70
42	Ai	45	DA	C3'-C2'-C1'	-5.10	96.38	102.50
64	B8	19	DC	N3-C4-C5	-5.10	119.86	121.90
80	BP	16	DC	N3-C4-C5	-5.10	119.86	121.90
90	BZ	43	DC	N3-C4-C5	-5.10	119.86	121.90
91	Ba	15	DC	N3-C4-C5	-5.10	119.86	121.90
97	Bg	3	DA	C5-C6-N1	-5.10	115.15	117.70
98	Bh	7	DA	C5-C6-N1	-5.10	115.15	117.70
135	CR	42	DA	C5-C6-N1	-5.10	115.15	117.70
142	CY	15	DA	C5-C6-N1	-5.10	115.15	117.70
152	Cp	20	DC	N3-C4-N4	5.10	121.57	118.00
155	Cs	20	DA	C5-C6-N1	-5.10	115.15	117.70
159	Cw	38	DC	N3-C4-N4	5.10	121.57	118.00
1	AA	536	DT	P-O3'-C3'	5.10	125.82	119.70
1	AA	1141	DC	N3-C4-N4	5.10	121.57	118.00
1	AA	1401	DA	C5-C6-N1	-5.10	115.15	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	3691	DA	C5-C6-N1	-5.10	115.15	117.70
1	AA	4673	DC	N3-C4-C5	-5.10	119.86	121.90
1	AA	5537	DG	O4'-C4'-C3'	-5.10	102.46	104.50
1	AA	6077	DA	C5-C6-N1	-5.10	115.15	117.70
1	AA	6140	DA	C5-C6-N1	-5.10	115.15	117.70
1	AA	6246	DA	C5-C6-N1	-5.10	115.15	117.70
6	A4	3	DA	C5-C6-N1	-5.10	115.15	117.70
31	AV	17	DA	C5-C6-N1	-5.10	115.15	117.70
43	Aj	47	DC	N3-C4-C5	-5.10	119.86	121.90
60	B4	12	DA	C5-C6-N1	-5.10	115.15	117.70
67	BC	8	DA	C5-C6-N1	-5.10	115.15	117.70
79	BO	43	DC	N3-C4-N4	5.10	121.57	118.00
80	BP	25	DC	N3-C4-N4	5.10	121.57	118.00
98	Bh	17	DA	C5-C6-N1	-5.10	115.15	117.70
112	C2	16	DC	N3-C4-C5	-5.10	119.86	121.90
1	AA	38	DC	N3-C4-C5	-5.10	119.86	121.90
1	AA	1103	DC	N3-C4-N4	5.10	121.57	118.00
1	AA	1319	DC	N3-C4-C5	-5.10	119.86	121.90
1	AA	1686	DC	O4'-C1'-C2'	-5.10	101.82	105.90
1	AA	1873	DA	C5-C6-N1	-5.10	115.15	117.70
1	AA	2977	DC	N3-C4-C5	-5.10	119.86	121.90
1	AA	3783	DC	P-O3'-C3'	5.10	125.82	119.70
1	AA	3947	DT	O4'-C4'-C3'	-5.10	102.46	104.50
1	AA	3967	DA	C5-C6-N1	-5.10	115.15	117.70
1	AA	4187	DC	N3-C4-N4	5.10	121.57	118.00
1	AA	5329	DA	C5-C6-N1	-5.10	115.15	117.70
1	AA	6053	DC	N3-C4-C5	-5.10	119.86	121.90
1	AA	6458	DC	N3-C4-C5	-5.10	119.86	121.90
1	AA	6855	DC	N3-C4-N4	5.10	121.57	118.00
9	A7	47	DA	O4'-C1'-N9	5.10	111.57	108.00
16	AG	19	DA	C5-C6-N1	-5.10	115.15	117.70
17	AH	8	DC	N3-C4-C5	-5.10	119.86	121.90
27	AR	55	DT	O4'-C1'-C2'	-5.10	101.82	105.90
28	AS	42	DA	C5-C6-N1	-5.10	115.15	117.70
39	Af	46	DA	C5-C6-N6	-5.10	119.62	123.70
47	An	43	DA	C5-C6-N1	-5.10	115.15	117.70
56	B0	21	DC	N3-C4-N4	5.10	121.57	118.00
58	B2	5	DC	N3-C4-C5	-5.10	119.86	121.90
58	B2	34	DC	N3-C4-C5	-5.10	119.86	121.90
81	BQ	36	DC	N3-C4-C5	-5.10	119.86	121.90
85	BU	34	DC	N3-C4-N4	5.10	121.57	118.00
99	Bi	58	DC	N3-C4-C5	-5.10	119.86	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
113	C3	3	DC	N3-C4-C5	-5.10	119.86	121.90
114	C4	51	DA	C5-C6-N1	-5.10	115.15	117.70
115	C5	5	DA	C5-C6-N1	-5.10	115.15	117.70
119	CB	23	DG	O4'-C1'-C2'	-5.10	101.82	105.90
120	CC	2	DC	N3-C4-C5	-5.10	119.86	121.90
121	CD	25	DC	N3-C4-C5	-5.10	119.86	121.90
121	CD	26	DA	C5-C6-N1	-5.10	115.15	117.70
121	CD	26	DA	C5-C6-N6	-5.10	119.62	123.70
141	CX	9	DC	N3-C4-N4	5.10	121.57	118.00
145	Cc	38	DC	N3-C4-C5	-5.10	119.86	121.90
1	AA	625	DA	C5-C6-N1	-5.10	115.15	117.70
1	AA	1111	DC	N3-C4-C5	-5.10	119.86	121.90
1	AA	1286	DC	N3-C4-C5	-5.10	119.86	121.90
1	AA	1861	DA	C5-C6-N1	-5.10	115.15	117.70
1	AA	2076	DC	N3-C4-N4	5.10	121.57	118.00
1	AA	2655	DT	C1'-O4'-C4'	-5.10	105.00	110.10
1	AA	3763	DA	C5-C6-N1	-5.10	115.15	117.70
1	AA	3913	DG	P-O3'-C3'	-5.10	113.58	119.70
1	AA	4792	DC	N3-C4-C5	-5.10	119.86	121.90
1	AA	4891	DA	C5-C6-N6	-5.10	119.62	123.70
1	AA	5552	DC	N3-C4-N4	5.10	121.57	118.00
1	AA	5580	DA	C5-C6-N1	-5.10	115.15	117.70
1	AA	5867	DC	N3-C4-C5	-5.10	119.86	121.90
1	AA	6286	DC	N3-C4-N4	5.10	121.57	118.00
1	AA	6317	DC	N3-C4-N4	5.10	121.57	118.00
1	AA	6529	DC	N3-C4-C5	-5.10	119.86	121.90
1	AA	6613	DA	O4'-C1'-C2'	-5.10	101.82	105.90
1	AA	6884	DC	N3-C4-C5	-5.10	119.86	121.90
9	A7	11	DC	N3-C4-C5	-5.10	119.86	121.90
17	AH	30	DC	N3-C4-N4	5.10	121.57	118.00
30	AU	11	DA	C5-C6-N6	-5.10	119.62	123.70
30	AU	38	DC	N3-C4-C5	-5.10	119.86	121.90
51	Av	38	DA	C5-C6-N1	-5.10	115.15	117.70
64	B8	1	DC	N3-C4-N4	5.10	121.57	118.00
80	BP	22	DC	N3-C4-C5	-5.10	119.86	121.90
101	Bk	65	DA	C5-C6-N1	-5.10	115.15	117.70
107	Bq	54	DA	C5-C6-N1	-5.10	115.15	117.70
108	Br	13	DC	O4'-C4'-C3'	-5.10	102.46	104.50
125	CH	38	DC	N3-C4-C5	-5.10	119.86	121.90
135	CR	2	DA	C5-C6-N1	-5.10	115.15	117.70
144	Cb	16	DA	C5-C6-N1	-5.10	115.15	117.70
147	Ce	16	DA	C5-C6-N6	-5.10	119.62	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
152	Cp	18	DA	C5-C6-N6	-5.10	119.62	123.70
159	Cw	43	DA	C5-C6-N6	-5.10	119.62	123.70
1	AA	1213	DA	C5-C6-N1	-5.10	115.15	117.70
1	AA	1300	DC	O4'-C1'-C2'	-5.10	101.82	105.90
1	AA	3005	DC	N3-C4-C5	-5.10	119.86	121.90
1	AA	5148	DC	N3-C4-C5	-5.10	119.86	121.90
23	AN	33	DC	N3-C4-C5	-5.10	119.86	121.90
25	AP	24	DT	O4'-C1'-C2'	-5.10	101.82	105.90
42	Ai	11	DA	C5-C6-N1	-5.10	115.15	117.70
57	B1	11	DC	N3-C4-N4	5.10	121.57	118.00
86	BV	17	DC	N3-C4-C5	-5.10	119.86	121.90
127	CJ	42	DA	C5-C6-N1	-5.10	115.15	117.70
139	CV	26	DC	N3-C4-N4	5.10	121.57	118.00
1	AA	988	DA	C5-C6-N1	-5.09	115.15	117.70
1	AA	1347	DA	C5-C6-N1	-5.09	115.15	117.70
1	AA	1711	DC	N3-C4-C5	-5.09	119.86	121.90
1	AA	2493	DA	C5-C6-N1	-5.09	115.15	117.70
1	AA	2627	DA	C5-C6-N1	-5.09	115.15	117.70
1	AA	2986	DC	N3-C4-N4	5.09	121.57	118.00
1	AA	3507	DC	O4'-C1'-N1	5.09	111.57	108.00
1	AA	3640	DA	C5-C6-N1	-5.09	115.15	117.70
1	AA	4021	DC	N3-C4-N4	5.09	121.57	118.00
1	AA	5523	DC	N3-C4-C5	-5.09	119.86	121.90
1	AA	5673	DC	N3-C4-N4	5.09	121.57	118.00
1	AA	6766	DA	C5-C6-N1	-5.09	115.15	117.70
1	AA	6832	DC	N3-C4-C5	-5.09	119.86	121.90
3	A1	39	DA	C5-C6-N1	-5.09	115.15	117.70
11	AB	28	DC	N3-C4-N4	5.09	121.57	118.00
13	AD	34	DC	N3-C4-N4	5.09	121.57	118.00
17	AH	47	DA	C5-C6-N1	-5.09	115.15	117.70
41	Ah	5	DC	N3-C4-C5	-5.09	119.86	121.90
53	Ax	30	DG	C3'-C2'-C1'	-5.09	96.39	102.50
53	Ax	45	DC	N3-C4-C5	-5.09	119.86	121.90
57	B1	44	DA	C5-C6-N1	-5.09	115.15	117.70
69	BE	41	DC	N3-C4-C5	-5.09	119.86	121.90
85	BU	34	DC	O4'-C1'-C2'	-5.09	101.83	105.90
87	BW	17	DA	C5-C6-N1	-5.09	115.15	117.70
88	BX	24	DA	C5-C6-N1	-5.09	115.15	117.70
142	CY	39	DC	N3-C4-C5	-5.09	119.86	121.90
157	Cu	39	DA	C5-C6-N1	-5.09	115.15	117.70
1	AA	472	DG	C3'-C2'-C1'	-5.09	96.39	102.50
1	AA	1235	DA	O4'-C1'-N9	5.09	111.56	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	1337	DC	N3-C4-N4	5.09	121.56	118.00
1	AA	3987	DC	O4'-C1'-C2'	-5.09	101.83	105.90
1	AA	4459	DA	O4'-C1'-N9	5.09	111.56	108.00
1	AA	6116	DA	C5-C6-N1	-5.09	115.15	117.70
37	Ac	36	DA	C5-C6-N1	-5.09	115.15	117.70
81	BQ	35	DC	N3-C4-N4	5.09	121.56	118.00
1	AA	398	DC	N3-C4-N4	5.09	121.56	118.00
1	AA	561	DC	N3-C4-N4	5.09	121.56	118.00
1	AA	781	DC	N3-C4-C5	-5.09	119.86	121.90
1	AA	1071	DC	N3-C4-C5	-5.09	119.86	121.90
1	AA	2424	DG	O4'-C1'-N9	5.09	111.56	108.00
1	AA	2522	DC	N3-C4-N4	5.09	121.56	118.00
1	AA	2826	DC	N3-C4-N4	5.09	121.56	118.00
1	AA	3247	DA	C5-C6-N1	-5.09	115.16	117.70
1	AA	3334	DC	N3-C4-C5	-5.09	119.86	121.90
1	AA	4763	DC	N3-C4-N4	5.09	121.56	118.00
1	AA	5923	DA	C5-C6-N1	-5.09	115.15	117.70
9	A7	38	DC	N3-C4-N4	5.09	121.56	118.00
39	Af	35	DC	C3'-C2'-C1'	-5.09	96.39	102.50
42	Ai	17	DC	N3-C4-C5	-5.09	119.86	121.90
46	Am	21	DA	C5-C6-N1	-5.09	115.16	117.70
71	BG	30	DA	P-O5'-C5'	-5.09	112.75	120.90
88	BX	23	DA	C5-C6-N6	-5.09	119.63	123.70
100	Bj	42	DA	C5-C6-N1	-5.09	115.15	117.70
115	C5	51	DC	N3-C4-N4	5.09	121.56	118.00
132	CO	46	DG	C4-N9-C1'	5.09	133.12	126.50
136	CS	37	DC	N3-C4-C5	-5.09	119.86	121.90
145	Cc	48	DA	C5-C6-N1	-5.09	115.15	117.70
160	Cx	38	DA	C5-C6-N1	-5.09	115.15	117.70
1	AA	946	DA	C5-C6-N6	-5.09	119.63	123.70
1	AA	1241	DC	N3-C4-C5	-5.09	119.86	121.90
1	AA	1748	DC	N3-C4-C5	-5.09	119.86	121.90
1	AA	2096	DC	N3-C4-C5	-5.09	119.86	121.90
1	AA	2906	DA	C5-C6-N1	-5.09	115.16	117.70
1	AA	3961	DC	N3-C4-N4	5.09	121.56	118.00
1	AA	4264	DA	C5-C6-N1	-5.09	115.16	117.70
1	AA	6451	DT	P-O5'-C5'	-5.09	112.76	120.90
1	AA	7160	DC	N3-C4-C5	-5.09	119.86	121.90
14	AE	41	DA	C5-C6-N1	-5.09	115.16	117.70
26	AQ	28	DC	N3-C4-C5	-5.09	119.86	121.90
32	AW	17	DT	O4'-C1'-C2'	-5.09	101.83	105.90
42	Ai	43	DC	N3-C4-N4	5.09	121.56	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
104	Bn	59	DC	N3-C4-C5	-5.09	119.86	121.90
128	CK	42	DC	N3-C4-C5	-5.09	119.86	121.90
153	Cq	13	DC	N3-C4-C5	-5.09	119.86	121.90
1	AA	787	DT	C1'-O4'-C4'	-5.09	105.01	110.10
1	AA	849	DC	N3-C4-N4	5.09	121.56	118.00
1	AA	962	DA	C5-C6-N1	-5.09	115.16	117.70
1	AA	973	DC	N3-C4-C5	-5.09	119.86	121.90
1	AA	6918	DC	C1'-O4'-C4'	-5.09	105.01	110.10
1	AA	7215	DA	C1'-O4'-C4'	-5.09	105.01	110.10
15	AF	40	DC	N3-C4-C5	-5.09	119.86	121.90
59	B3	39	DC	N3-C4-N4	5.09	121.56	118.00
75	BK	22	DA	C1'-O4'-C4'	-5.09	105.01	110.10
86	BV	1	DC	N3-C4-N4	5.09	121.56	118.00
147	Ce	1	DC	N3-C4-C5	-5.09	119.86	121.90
1	AA	256	DA	C5-C6-N1	-5.09	115.16	117.70
1	AA	304	DC	N3-C4-N4	5.09	121.56	118.00
1	AA	507	DC	N3-C4-C5	-5.09	119.86	121.90
1	AA	534	DC	N3-C4-C5	-5.09	119.87	121.90
1	AA	1284	DC	N3-C4-C5	-5.09	119.86	121.90
1	AA	1408	DT	P-O3'-C3'	5.09	125.80	119.70
1	AA	2033	DC	N3-C4-N4	5.09	121.56	118.00
1	AA	2126	DG	P-O3'-C3'	5.09	125.80	119.70
1	AA	3541	DA	C5-C6-N6	-5.09	119.63	123.70
1	AA	3887	DC	N3-C4-N4	5.09	121.56	118.00
1	AA	4251	DA	C5-C6-N1	-5.09	115.16	117.70
1	AA	4529	DC	N3-C4-C5	-5.09	119.86	121.90
1	AA	4675	DA	C5-C6-N1	-5.09	115.16	117.70
1	AA	5882	DC	N3-C4-C5	-5.09	119.86	121.90
1	AA	6127	DA	C5-C6-N1	-5.09	115.16	117.70
1	AA	6551	DC	O4'-C1'-C2'	-5.09	101.83	105.90
1	AA	6699	DC	N3-C4-N4	5.09	121.56	118.00
1	AA	6931	DC	N3-C4-C5	-5.09	119.86	121.90
13	AD	50	DA	C5-C6-N1	-5.09	115.16	117.70
18	AI	31	DC	O4'-C1'-N1	5.09	111.56	108.00
40	Ag	19	DC	N3-C4-N4	5.09	121.56	118.00
55	Az	27	DC	N3-C4-C5	-5.09	119.87	121.90
60	B4	10	DA	C5-C6-N1	-5.09	115.16	117.70
63	B7	10	DA	C5-C6-N1	-5.09	115.16	117.70
69	BE	54	DA	C5-C6-N6	-5.09	119.63	123.70
79	BO	14	DA	C5-C6-N6	-5.09	119.63	123.70
86	BV	11	DC	N3-C4-C5	-5.09	119.86	121.90
92	Bb	43	DA	C5-C6-N1	-5.09	115.16	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
92	Bb	59	DA	C5-C6-N1	-5.09	115.16	117.70
92	Bb	66	DC	N3-C4-N4	5.09	121.56	118.00
98	Bh	18	DA	C5-C6-N1	-5.09	115.16	117.70
112	C2	2	DA	C5-C6-N1	-5.09	115.16	117.70
116	C6	25	DA	C5-C6-N1	-5.09	115.16	117.70
121	CD	28	DA	C3'-C2'-C1'	-5.09	96.39	102.50
123	CF	34	DA	C5-C6-N6	-5.09	119.63	123.70
136	CS	41	DC	N3-C4-N4	5.09	121.56	118.00
142	CY	16	DA	C4-C5-C6	5.09	119.54	117.00
150	Ch	21	DC	N3-C4-N4	5.09	121.56	118.00
157	Cu	51	DA	C5-C6-N1	-5.09	115.16	117.70
159	Cw	48	DC	N3-C4-C5	-5.09	119.87	121.90
1	AA	1170	DA	C5-C6-N1	-5.08	115.16	117.70
1	AA	1373	DC	N3-C4-C5	-5.08	119.87	121.90
1	AA	2851	DC	N3-C4-C5	-5.08	119.87	121.90
1	AA	4093	DC	N3-C4-N4	5.08	121.56	118.00
1	AA	5303	DG	C3'-C2'-C1'	-5.08	96.40	102.50
47	An	11	DC	N3-C4-C5	-5.08	119.87	121.90
47	An	38	DC	O4'-C1'-C2'	-5.08	101.83	105.90
49	As	47	DA	C5-C6-N1	-5.08	115.16	117.70
64	B8	6	DA	C5-C6-N1	-5.08	115.16	117.70
157	Cu	44	DA	C5-C6-N1	-5.08	115.16	117.70
1	AA	286	DC	N3-C4-N4	5.08	121.56	118.00
1	AA	389	DC	N3-C4-C5	-5.08	119.87	121.90
1	AA	456	DA	C5-C6-N1	-5.08	115.16	117.70
1	AA	664	DC	N3-C4-C5	-5.08	119.87	121.90
1	AA	1407	DA	C5-C6-N1	-5.08	115.16	117.70
1	AA	1625	DC	N3-C4-N4	5.08	121.56	118.00
1	AA	2657	DA	P-O5'-C5'	5.08	129.03	120.90
1	AA	3717	DC	N3-C4-C5	-5.08	119.87	121.90
1	AA	3764	DA	C5-C6-N1	-5.08	115.16	117.70
1	AA	3964	DA	C5-C6-N1	-5.08	115.16	117.70
1	AA	5143	DA	C5-C6-N6	-5.08	119.63	123.70
1	AA	5739	DA	C5-C6-N1	-5.08	115.16	117.70
1	AA	5891	DA	C5-C6-N1	-5.08	115.16	117.70
1	AA	6956	DC	N3-C4-C5	-5.08	119.87	121.90
1	AA	7003	DC	N3-C4-C5	-5.08	119.87	121.90
1	AA	7092	DC	N3-C4-N4	5.08	121.56	118.00
1	AA	7193	DC	C5-C4-N4	-5.08	116.64	120.20
13	AD	6	DC	O4'-C1'-C2'	-5.08	101.83	105.90
19	AJ	47	DA	C5-C6-N1	-5.08	115.16	117.70
20	AK	16	DA	C5-C6-N6	-5.08	119.63	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	AL	23	DC	N3-C4-C5	-5.08	119.87	121.90
23	AN	15	DA	C5-C6-N1	-5.08	115.16	117.70
28	AS	7	DC	N3-C4-C5	-5.08	119.87	121.90
55	Az	28	DC	N3-C4-C5	-5.08	119.87	121.90
76	BL	11	DC	N3-C4-C5	-5.08	119.87	121.90
81	BQ	6	DA	C5-C6-N6	-5.08	119.63	123.70
83	BS	15	DC	O4'-C1'-C2'	-5.08	101.83	105.90
92	Bb	39	DC	N3-C4-C5	-5.08	119.87	121.90
112	C2	33	DA	C4-C5-C6	5.08	119.54	117.00
129	CL	26	DC	N3-C4-N4	5.08	121.56	118.00
132	CO	45	DC	N3-C4-C5	-5.08	119.87	121.90
135	CR	7	DC	O4'-C1'-C2'	-5.08	101.83	105.90
143	CZ	5	DA	C5-C6-N1	-5.08	115.16	117.70
147	Ce	2	DA	C5-C6-N1	-5.08	115.16	117.70
149	Cg	1	DC	N3-C4-C5	-5.08	119.87	121.90
150	Ch	10	DA	C4'-C3'-C2'	-5.08	98.53	103.10
159	Cw	36	DC	N3-C4-C5	-5.08	119.87	121.90
1	AA	557	DC	N3-C4-C5	-5.08	119.87	121.90
1	AA	945	DA	C5-C6-N1	-5.08	115.16	117.70
1	AA	1361	DA	C5-C6-N6	-5.08	119.64	123.70
1	AA	2257	DA	C5-C6-N1	-5.08	115.16	117.70
1	AA	2940	DC	N3-C4-N4	5.08	121.56	118.00
1	AA	3686	DC	N3-C4-C5	-5.08	119.87	121.90
1	AA	3962	DC	N3-C4-N4	5.08	121.56	118.00
1	AA	4209	DC	N3-C4-C5	-5.08	119.87	121.90
1	AA	4226	DC	N3-C4-N4	5.08	121.56	118.00
1	AA	5173	DC	N3-C4-C5	-5.08	119.87	121.90
1	AA	5270	DC	N3-C4-N4	5.08	121.56	118.00
1	AA	5946	DC	N3-C4-C5	-5.08	119.87	121.90
3	A1	32	DA	C5-C6-N1	-5.08	115.16	117.70
7	A5	38	DC	N3-C4-C5	-5.08	119.87	121.90
8	A6	9	DA	C5-C6-N6	-5.08	119.63	123.70
8	A6	24	DA	O3'-P-O5'	-5.08	94.34	104.00
22	AM	14	DC	N3-C4-C5	-5.08	119.87	121.90
40	Ag	41	DA	C5-C6-N1	-5.08	115.16	117.70
52	Aw	10	DT	C1'-O4'-C4'	-5.08	105.02	110.10
59	B3	26	DC	N3-C4-N4	5.08	121.56	118.00
78	BN	42	DC	N3-C4-C5	-5.08	119.87	121.90
94	Bd	16	DA	C5-C6-N1	-5.08	115.16	117.70
98	Bh	22	DC	N3-C4-C5	-5.08	119.87	121.90
100	Bj	1	DA	C5-C6-N6	-5.08	119.64	123.70
109	Bs	49	DA	C5-C6-N1	-5.08	115.16	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
129	CL	47	DA	C5-C6-N6	-5.08	119.64	123.70
130	CM	27	DC	N3-C4-C5	-5.08	119.87	121.90
135	CR	14	DA	C5-C6-N1	-5.08	115.16	117.70
162	Cz	32	DC	N3-C4-C5	-5.08	119.87	121.90
1	AA	3339	DC	N3-C4-C5	-5.08	119.87	121.90
1	AA	4780	DA	C5-C6-N1	-5.08	115.16	117.70
1	AA	6197	DC	N3-C4-C5	-5.08	119.87	121.90
24	AO	40	DA	C5-C6-N6	-5.08	119.64	123.70
34	AY	13	DA	C5-C6-N1	-5.08	115.16	117.70
36	Ab	36	DA	O4'-C1'-N9	5.08	111.56	108.00
39	Af	28	DA	C5-C6-N1	-5.08	115.16	117.70
74	BJ	18	DT	C4'-C3'-C2'	-5.08	98.53	103.10
85	BU	16	DA	C5-C6-N1	-5.08	115.16	117.70
88	BX	18	DA	C1'-O4'-C4'	-5.08	105.02	110.10
97	Bg	11	DC	N3-C4-N4	5.08	121.56	118.00
116	C6	19	DA	C5-C6-N1	-5.08	115.16	117.70
126	CI	1	DA	C5-C6-N1	-5.08	115.16	117.70
127	CJ	24	DC	N3-C4-C5	-5.08	119.87	121.90
1	AA	203	DG	C1'-O4'-C4'	-5.08	105.02	110.10
1	AA	747	DC	N3-C4-C5	-5.08	119.87	121.90
1	AA	938	DC	N3-C4-C5	-5.08	119.87	121.90
1	AA	1389	DG	C3'-C2'-C1'	-5.08	96.41	102.50
1	AA	1398	DC	N3-C4-N4	5.08	121.56	118.00
1	AA	2087	DC	N3-C4-C5	-5.08	119.87	121.90
1	AA	2357	DA	C5-C6-N1	-5.08	115.16	117.70
1	AA	2646	DC	N3-C4-C5	-5.08	119.87	121.90
1	AA	3012	DA	C5-C6-N1	-5.08	115.16	117.70
1	AA	3346	DA	C5-C6-N1	-5.08	115.16	117.70
1	AA	3741	DT	P-O3'-C3'	5.08	125.80	119.70
1	AA	4449	DC	O4'-C1'-N1	5.08	111.55	108.00
1	AA	4647	DC	N3-C4-C5	-5.08	119.87	121.90
1	AA	4874	DT	P-O3'-C3'	5.08	125.80	119.70
1	AA	5517	DA	C5-C6-N1	-5.08	115.16	117.70
1	AA	6131	DA	C5-C6-N1	-5.08	115.16	117.70
1	AA	7230	DC	N3-C4-C5	-5.08	119.87	121.90
2	A0	7	DG	O4'-C1'-N9	5.08	111.56	108.00
30	AU	12	DA	C5-C6-N1	-5.08	115.16	117.70
50	Au	21	DC	N3-C4-C5	-5.08	119.87	121.90
69	BE	50	DC	N3-C4-C5	-5.08	119.87	121.90
85	BU	10	DA	C5-C6-N1	-5.08	115.16	117.70
90	BZ	26	DA	C5-C6-N6	-5.08	119.64	123.70
102	Bl	39	DA	C5-C6-N1	-5.08	115.16	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
105	Bo	63	DT	C4'-C3'-C2'	-5.08	98.53	103.10
114	C4	31	DC	N3-C4-C5	-5.08	119.87	121.90
135	CR	31	DA	C5-C6-N6	-5.08	119.64	123.70
160	Cx	46	DC	N3-C4-C5	-5.08	119.87	121.90
1	AA	528	DA	C5-C6-N1	-5.08	115.16	117.70
1	AA	2286	DC	N3-C4-N4	5.08	121.55	118.00
1	AA	2873	DC	N3-C4-C5	-5.08	119.87	121.90
1	AA	6023	DA	C5-C6-N6	-5.08	119.64	123.70
1	AA	6993	DA	C5-C6-N1	-5.08	115.16	117.70
21	AL	21	DA	C5-C6-N1	-5.08	115.16	117.70
23	AN	43	DC	N3-C4-C5	-5.08	119.87	121.90
146	Cd	40	DA	C1'-O4'-C4'	-5.08	105.02	110.10
1	AA	176	DC	C3'-C2'-C1'	-5.08	96.41	102.50
1	AA	366	DC	N3-C4-N4	5.08	121.55	118.00
1	AA	369	DA	C5-C6-N1	-5.08	115.16	117.70
1	AA	548	DA	C5-C6-N1	-5.08	115.16	117.70
1	AA	603	DC	N3-C4-N4	5.08	121.55	118.00
1	AA	1067	DC	N3-C4-C5	-5.08	119.87	121.90
1	AA	1271	DG	P-O3'-C3'	5.08	125.79	119.70
1	AA	1683	DA	C5-C6-N6	-5.08	119.64	123.70
1	AA	2074	DC	N3-C4-N4	5.08	121.55	118.00
1	AA	2249	DC	N3-C4-C5	-5.08	119.87	121.90
1	AA	2889	DA	C5-C6-N1	-5.08	115.16	117.70
1	AA	3229	DA	C5-C6-N1	-5.08	115.16	117.70
1	AA	3857	DC	N3-C4-C5	-5.08	119.87	121.90
1	AA	6267	DA	C5-C6-N1	-5.08	115.16	117.70
1	AA	6688	DA	C5-C6-N1	-5.08	115.16	117.70
1	AA	6992	DC	O4'-C4'-C3'	-5.08	102.47	104.50
10	A8	48	DG	O4'-C1'-N9	5.08	111.55	108.00
18	AI	45	DA	C5-C6-N1	-5.08	115.16	117.70
24	AO	42	DA	C5-C6-N1	-5.08	115.16	117.70
36	Ab	38	DA	C5-C6-N1	-5.08	115.16	117.70
58	B2	32	DC	N3-C4-C5	-5.08	119.87	121.90
69	BE	57	DC	N3-C4-C5	-5.08	119.87	121.90
77	BM	36	DC	N3-C4-C5	-5.08	119.87	121.90
90	BZ	41	DA	C5-C6-N1	-5.08	115.16	117.70
102	Bl	44	DC	N3-C4-C5	-5.08	119.87	121.90
108	Br	43	DC	N3-C4-C5	-5.08	119.87	121.90
111	C1	44	DC	N3-C4-C5	-5.08	119.87	121.90
121	CD	10	DC	P-O5'-C5'	-5.08	112.78	120.90
128	CK	44	DG	O4'-C1'-C2'	-5.08	101.84	105.90
145	Cc	20	DG	P-O3'-C3'	5.08	125.79	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
154	Cr	12	DA	C5-C6-N1	-5.08	115.16	117.70
1	AA	313	DT	P-O3'-C3'	5.07	125.79	119.70
1	AA	655	DC	N3-C4-C5	-5.07	119.87	121.90
1	AA	1552	DT	O4'-C1'-N1	5.07	111.55	108.00
1	AA	1621	DC	C3'-C2'-C1'	-5.07	96.41	102.50
1	AA	1999	DG	O4'-C1'-C2'	-5.07	101.84	105.90
1	AA	2332	DC	N3-C4-C5	-5.07	119.87	121.90
1	AA	2439	DC	N3-C4-C5	-5.07	119.87	121.90
1	AA	4657	DC	N3-C4-C5	-5.07	119.87	121.90
1	AA	5189	DA	C5-C6-N6	-5.07	119.64	123.70
1	AA	6242	DA	C5-C6-N1	-5.07	115.16	117.70
1	AA	6439	DA	C4-C5-C6	5.07	119.54	117.00
1	AA	6598	DC	N3-C4-N4	5.07	121.55	118.00
12	AC	19	DG	O4'-C1'-C2'	-5.07	101.84	105.90
36	Ab	26	DC	N3-C4-N4	5.07	121.55	118.00
61	B5	20	DA	C5-C6-N6	-5.07	119.64	123.70
89	BY	43	DC	N3-C4-C5	-5.07	119.87	121.90
90	BZ	58	DA	C5-C6-N1	-5.07	115.16	117.70
100	Bj	43	DC	N3-C4-C5	-5.07	119.87	121.90
105	Bo	6	DA	C5-C6-N1	-5.07	115.16	117.70
114	C4	24	DA	C5-C6-N1	-5.07	115.16	117.70
145	Cc	52	DA	C5-C6-N1	-5.07	115.16	117.70
146	Cd	1	DA	C5-C6-N1	-5.07	115.16	117.70
1	AA	55	DC	N3-C4-C5	-5.07	119.87	121.90
1	AA	1326	DC	N3-C4-C5	-5.07	119.87	121.90
1	AA	3430	DC	N3-C4-C5	-5.07	119.87	121.90
1	AA	4212	DC	N3-C4-C5	-5.07	119.87	121.90
60	B4	38	DC	N3-C4-N4	5.07	121.55	118.00
92	Bb	66	DC	O4'-C1'-C2'	-5.07	101.84	105.90
124	CG	41	DG	C1'-O4'-C4'	-5.07	105.03	110.10
1	AA	838	DC	O4'-C1'-C2'	-5.07	101.84	105.90
1	AA	1206	DC	N3-C4-N4	5.07	121.55	118.00
1	AA	1360	DA	C5-C6-N1	-5.07	115.16	117.70
1	AA	1686	DC	N3-C4-C5	-5.07	119.87	121.90
1	AA	2749	DC	N3-C4-C5	-5.07	119.87	121.90
1	AA	3129	DC	C1'-O4'-C4'	-5.07	105.03	110.10
1	AA	3778	DC	N3-C4-N4	5.07	121.55	118.00
1	AA	4105	DC	N3-C4-N4	5.07	121.55	118.00
1	AA	4580	DC	N3-C4-C5	-5.07	119.87	121.90
1	AA	5430	DA	C5-C6-N1	-5.07	115.17	117.70
1	AA	5532	DC	N3-C4-C5	-5.07	119.87	121.90
1	AA	6186	DG	O4'-C1'-N9	5.07	111.55	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6607	DC	O4'-C1'-C2'	-5.07	101.84	105.90
1	AA	6656	DC	N3-C4-C5	-5.07	119.87	121.90
1	AA	6796	DA	C5-C6-N1	-5.07	115.16	117.70
11	AB	28	DC	N3-C4-C5	-5.07	119.87	121.90
31	AV	26	DC	N3-C4-N4	5.07	121.55	118.00
33	AX	11	DC	N3-C4-C5	-5.07	119.87	121.90
39	Af	13	DA	C5-C6-N1	-5.07	115.17	117.70
46	Am	4	DC	O4'-C1'-C2'	-5.07	101.84	105.90
51	Av	10	DC	N3-C4-C5	-5.07	119.87	121.90
53	Ax	3	DA	C5-C6-N1	-5.07	115.17	117.70
57	B1	38	DC	N3-C4-N4	5.07	121.55	118.00
71	BG	28	DA	C5-C6-N6	-5.07	119.64	123.70
74	BJ	27	DA	C5-C6-N6	-5.07	119.64	123.70
87	BW	22	DA	C5-C6-N6	-5.07	119.64	123.70
96	Bf	2	DT	C1'-O4'-C4'	-5.07	105.03	110.10
102	Bl	47	DC	N3-C4-N4	5.07	121.55	118.00
118	C8	31	DC	N3-C4-C5	-5.07	119.87	121.90
126	CI	43	DC	N3-C4-N4	5.07	121.55	118.00
144	Cb	23	DA	O4'-C1'-N9	5.07	111.55	108.00
145	Cc	49	DC	N3-C4-N4	5.07	121.55	118.00
1	AA	114	DA	C5-C6-N1	-5.07	115.17	117.70
1	AA	305	DC	N3-C4-N4	5.07	121.55	118.00
1	AA	844	DC	N3-C4-N4	5.07	121.55	118.00
1	AA	1362	DA	C5-C6-N1	-5.07	115.17	117.70
1	AA	1755	DA	C5-C6-N1	-5.07	115.17	117.70
1	AA	1779	DA	C5-C6-N1	-5.07	115.17	117.70
1	AA	3644	DC	N3-C4-C5	-5.07	119.87	121.90
1	AA	4567	DC	N3-C4-C5	-5.07	119.87	121.90
1	AA	5515	DA	C5-C6-N1	-5.07	115.17	117.70
1	AA	6879	DC	N3-C4-N4	5.07	121.55	118.00
23	AN	25	DA	C5-C6-N1	-5.07	115.17	117.70
91	Ba	39	DC	N3-C4-C5	-5.07	119.87	121.90
154	Cr	13	DA	C5-C6-N1	-5.07	115.17	117.70
1	AA	212	DG	O4'-C1'-C2'	-5.07	101.85	105.90
1	AA	425	DC	N3-C4-N4	5.07	121.55	118.00
1	AA	1683	DA	O4'-C1'-N9	5.07	111.55	108.00
1	AA	2159	DC	N3-C4-N4	5.07	121.55	118.00
1	AA	3241	DA	C5-C6-N1	-5.07	115.17	117.70
1	AA	4236	DC	N3-C4-C5	-5.07	119.87	121.90
1	AA	4379	DC	N3-C4-C5	-5.07	119.87	121.90
1	AA	5629	DA	C5-C6-N1	-5.07	115.17	117.70
1	AA	5721	DA	C5-C6-N1	-5.07	115.17	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	6132	DA	C5-C6-N1	-5.07	115.17	117.70
1	AA	6154	DC	N3-C4-N4	5.07	121.55	118.00
1	AA	6673	DC	N3-C4-C5	-5.07	119.87	121.90
1	AA	7232	DC	N3-C4-C5	-5.07	119.87	121.90
2	A0	48	DA	C5-C6-N1	-5.07	115.17	117.70
29	AT	18	DA	C5-C6-N1	-5.07	115.17	117.70
37	Ac	19	DA	C5-C6-N1	-5.07	115.17	117.70
38	Ad	43	DT	P-O3'-C3'	5.07	125.78	119.70
53	Ax	47	DA	C5-C6-N1	-5.07	115.17	117.70
65	B9	11	DA	C5-C6-N1	-5.07	115.17	117.70
90	BZ	43	DC	N3-C4-N4	5.07	121.55	118.00
96	Bf	11	DC	N3-C4-C5	-5.07	119.87	121.90
101	Bk	46	DC	N3-C4-C5	-5.07	119.87	121.90
123	CF	38	DA	C5-C6-N1	-5.07	115.17	117.70
136	CS	16	DG	O4'-C1'-N9	5.07	111.55	108.00
138	CU	8	DA	C5-C6-N1	-5.07	115.17	117.70
138	CU	18	DC	N3-C4-C5	-5.07	119.87	121.90
156	Ct	24	DA	C5-C6-N1	-5.07	115.17	117.70
1	AA	139	DC	N3-C4-C5	-5.07	119.87	121.90
1	AA	688	DG	P-O3'-C3'	5.07	125.78	119.70
1	AA	1208	DC	O4'-C1'-C2'	-5.07	101.85	105.90
1	AA	1224	DC	N3-C4-C5	-5.07	119.87	121.90
1	AA	1239	DA	C5-C6-N6	-5.07	119.65	123.70
1	AA	1753	DC	N3-C4-N4	5.07	121.55	118.00
1	AA	3265	DC	N3-C4-C5	-5.07	119.87	121.90
1	AA	3725	DC	N3-C4-C5	-5.07	119.87	121.90
1	AA	4666	DC	N3-C4-C5	-5.07	119.87	121.90
1	AA	5089	DA	C5-C6-N1	-5.07	115.17	117.70
1	AA	5104	DA	P-O3'-C3'	5.07	125.78	119.70
1	AA	5161	DG	C1'-O4'-C4'	-5.07	105.03	110.10
1	AA	6329	DT	P-O3'-C3'	5.07	125.78	119.70
1	AA	7013	DA	C5-C6-N1	-5.07	115.17	117.70
16	AG	43	DC	N3-C4-C5	-5.07	119.87	121.90
27	AR	36	DC	N3-C4-N4	5.07	121.55	118.00
44	Ak	39	DG	O4'-C1'-N9	5.07	111.55	108.00
57	B1	32	DA	C5-C6-N1	-5.07	115.17	117.70
61	B5	2	DA	C5-C6-N1	-5.07	115.17	117.70
62	B6	21	DA	C5-C6-N1	-5.07	115.17	117.70
126	CI	18	DA	C5-C6-N1	-5.07	115.17	117.70
150	Ch	41	DA	C5-C6-N1	-5.07	115.17	117.70
154	Cr	14	DA	C5-C6-N1	-5.07	115.17	117.70
157	Cu	33	DA	C5-C6-N1	-5.07	115.17	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	363	DC	N3-C4-N4	5.06	121.55	118.00
1	AA	2392	DA	C5-C6-N1	-5.06	115.17	117.70
1	AA	3001	DC	N3-C4-N4	5.06	121.55	118.00
1	AA	3432	DC	N3-C4-N4	5.06	121.55	118.00
1	AA	4782	DA	C5-C6-N1	-5.06	115.17	117.70
1	AA	4953	DA	C4-C5-C6	5.06	119.53	117.00
1	AA	5522	DC	N3-C4-C5	-5.06	119.87	121.90
1	AA	6590	DC	N3-C4-N4	5.06	121.55	118.00
1	AA	6697	DA	C5-C6-N1	-5.06	115.17	117.70
1	AA	6915	DA	C5-C6-N1	-5.06	115.17	117.70
1	AA	6979	DG	P-O5'-C5'	-5.06	112.80	120.90
7	A5	6	DC	N3-C4-N4	5.06	121.55	118.00
22	AM	1	DA	C5-C6-N1	-5.06	115.17	117.70
90	BZ	32	DA	C5-C6-N1	-5.06	115.17	117.70
119	CB	21	DA	C5-C6-N1	-5.06	115.17	117.70
1	AA	207	DC	N3-C4-C5	-5.06	119.88	121.90
1	AA	400	DC	N3-C4-C5	-5.06	119.88	121.90
1	AA	460	DC	N3-C4-N4	5.06	121.54	118.00
1	AA	501	DC	N3-C4-C5	-5.06	119.88	121.90
1	AA	1596	DC	N3-C4-N4	5.06	121.54	118.00
1	AA	3430	DC	N3-C4-N4	5.06	121.54	118.00
1	AA	3527	DG	P-O3'-C3'	5.06	125.78	119.70
1	AA	3544	DC	N3-C4-C5	-5.06	119.88	121.90
1	AA	4083	DA	C5-C6-N1	-5.06	115.17	117.70
1	AA	4838	DC	N3-C4-C5	-5.06	119.88	121.90
1	AA	6590	DC	N3-C4-C5	-5.06	119.88	121.90
7	A5	18	DA	C5-C6-N1	-5.06	115.17	117.70
22	AM	10	DA	C5-C6-N1	-5.06	115.17	117.70
24	AO	16	DC	N3-C4-N4	5.06	121.54	118.00
38	Ad	41	DC	N3-C4-C5	-5.06	119.88	121.90
43	Aj	24	DA	C5-C6-N1	-5.06	115.17	117.70
47	An	44	DA	C5-C6-N1	-5.06	115.17	117.70
52	Aw	29	DC	N3-C4-N4	5.06	121.54	118.00
64	B8	28	DC	O4'-C1'-C2'	-5.06	101.85	105.90
118	C8	27	DA	C5-C6-N1	-5.06	115.17	117.70
129	CL	6	DA	C5-C6-N1	-5.06	115.17	117.70
132	CO	8	DA	C5-C6-N6	-5.06	119.65	123.70
140	CW	37	DC	N3-C4-N4	5.06	121.54	118.00
146	Cd	40	DA	O4'-C1'-N9	5.06	111.54	108.00
150	Ch	6	DC	N3-C4-C5	-5.06	119.88	121.90
155	Cs	29	DA	C5-C6-N6	-5.06	119.65	123.70
1	AA	395	DA	O4'-C1'-C2'	-5.06	101.85	105.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	750	DA	C5-C6-N6	-5.06	119.65	123.70
1	AA	1022	DA	C5-C6-N1	-5.06	115.17	117.70
1	AA	3490	DA	C5-C6-N6	-5.06	119.65	123.70
1	AA	3555	DC	N3-C4-C5	-5.06	119.88	121.90
1	AA	4369	DC	N3-C4-C5	-5.06	119.88	121.90
1	AA	4652	DA	C5-C6-N1	-5.06	115.17	117.70
1	AA	5335	DC	N3-C4-C5	-5.06	119.88	121.90
1	AA	6311	DT	O4'-C1'-N1	5.06	111.54	108.00
26	AQ	2	DC	N3-C4-C5	-5.06	119.88	121.90
78	BN	45	DC	N3-C4-N4	5.06	121.54	118.00
87	BW	33	DC	N3-C4-C5	-5.06	119.88	121.90
91	Ba	39	DC	N3-C4-N4	5.06	121.54	118.00
95	Be	25	DC	N3-C4-N4	5.06	121.54	118.00
117	C7	21	DT	P-O3'-C3'	5.06	125.77	119.70
162	Cz	4	DA	C5-C6-N1	-5.06	115.17	117.70
1	AA	354	DC	N3-C4-N4	5.06	121.54	118.00
1	AA	521	DC	O4'-C1'-C2'	-5.06	101.85	105.90
1	AA	550	DC	N3-C4-N4	5.06	121.54	118.00
1	AA	624	DC	N3-C4-C5	-5.06	119.88	121.90
1	AA	1021	DA	C5-C6-N1	-5.06	115.17	117.70
1	AA	1417	DC	N3-C4-N4	5.06	121.54	118.00
1	AA	3480	DC	N3-C4-C5	-5.06	119.88	121.90
1	AA	4343	DC	C5-C4-N4	-5.06	116.66	120.20
1	AA	6325	DA	C5-C6-N1	-5.06	115.17	117.70
1	AA	6911	DC	C1'-O4'-C4'	-5.06	105.04	110.10
7	A5	12	DA	C5-C6-N1	-5.06	115.17	117.70
29	AT	29	DC	N3-C4-C5	-5.06	119.88	121.90
47	An	9	DA	C5-C6-N6	-5.06	119.65	123.70
65	B9	48	DC	N3-C4-N4	5.06	121.54	118.00
67	BC	16	DC	N3-C4-C5	-5.06	119.88	121.90
74	BJ	23	DC	N3-C4-N4	5.06	121.54	118.00
81	BQ	4	DG	O4'-C1'-C2'	-5.06	101.85	105.90
91	Ba	44	DC	N3-C4-N4	5.06	121.54	118.00
97	Bg	14	DA	C5-C6-N1	-5.06	115.17	117.70
99	Bi	54	DA	C5-C6-N1	-5.06	115.17	117.70
110	C0	16	DC	N3-C4-C5	-5.06	119.88	121.90
124	CG	19	DC	N3-C4-N4	5.06	121.54	118.00
134	CQ	38	DC	N3-C4-C5	-5.06	119.88	121.90
147	Ce	20	DG	P-O3'-C3'	5.06	125.77	119.70
155	Cs	33	DT	O4'-C1'-N1	5.06	111.54	108.00
159	Cw	21	DA	C5-C6-N1	-5.06	115.17	117.70
161	Cy	17	DA	C5-C6-N1	-5.06	115.17	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	279	DC	N3-C4-C5	-5.06	119.88	121.90
1	AA	338	DC	N3-C4-C5	-5.06	119.88	121.90
1	AA	3230	DT	C1'-O4'-C4'	-5.06	105.04	110.10
1	AA	3961	DC	O4'-C1'-C2'	-5.06	101.85	105.90
1	AA	3995	DC	O4'-C4'-C3'	-5.06	102.48	104.50
1	AA	4770	DA	C5-C6-N1	-5.06	115.17	117.70
1	AA	5373	DT	P-O3'-C3'	5.06	125.77	119.70
1	AA	6948	DC	N3-C4-N4	5.06	121.54	118.00
1	AA	7025	DA	C5-C6-N1	-5.06	115.17	117.70
4	A2	2	DA	C5-C6-N1	-5.06	115.17	117.70
41	Ah	24	DC	O4'-C1'-N1	5.06	111.54	108.00
41	Ah	28	DC	N3-C4-C5	-5.06	119.88	121.90
42	Ai	4	DC	N3-C4-N4	5.06	121.54	118.00
49	As	41	DA	C5-C6-N1	-5.06	115.17	117.70
56	B0	6	DC	N3-C4-C5	-5.06	119.88	121.90
59	B3	37	DA	C5-C6-N1	-5.06	115.17	117.70
102	Bl	34	DC	N3-C4-C5	-5.06	119.88	121.90
113	C3	35	DC	O4'-C1'-N1	5.06	111.54	108.00
117	C7	40	DC	N3-C4-C5	-5.06	119.88	121.90
142	CY	28	DA	C5-C6-N6	-5.06	119.65	123.70
1	AA	1580	DC	N3-C4-C5	-5.06	119.88	121.90
1	AA	1642	DC	N3-C4-C5	-5.06	119.88	121.90
1	AA	2621	DA	P-O3'-C3'	5.06	125.77	119.70
1	AA	4309	DC	N3-C4-C5	-5.06	119.88	121.90
1	AA	4429	DT	P-O5'-C5'	-5.06	112.81	120.90
1	AA	5082	DG	C1'-O4'-C4'	-5.06	105.04	110.10
19	AJ	49	DA	C5-C6-N1	-5.06	115.17	117.70
57	B1	12	DA	C5-C6-N1	-5.06	115.17	117.70
79	BO	33	DC	N3-C4-C5	-5.06	119.88	121.90
96	Bf	20	DA	P-O3'-C3'	5.06	125.77	119.70
134	CQ	30	DA	C5-C6-N1	-5.06	115.17	117.70
139	CV	43	DC	N3-C4-C5	-5.06	119.88	121.90
146	Cd	20	DA	C5-C6-N1	-5.06	115.17	117.70
158	Cv	8	DG	P-O3'-C3'	5.06	125.77	119.70
1	AA	310	DC	N3-C4-N4	5.05	121.54	118.00
1	AA	841	DC	N3-C4-C5	-5.05	119.88	121.90
1	AA	1005	DA	C5-C6-N1	-5.05	115.17	117.70
1	AA	1907	DC	N3-C4-N4	5.05	121.54	118.00
1	AA	2074	DC	O4'-C1'-C2'	-5.05	101.86	105.90
1	AA	2378	DA	C5-C6-N1	-5.05	115.17	117.70
1	AA	3129	DC	O4'-C1'-N1	5.05	111.54	108.00
1	AA	4869	DC	N3-C4-C5	-5.05	119.88	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	5520	DA	C5-C6-N1	-5.05	115.17	117.70
1	AA	6000	DC	N3-C4-C5	-5.05	119.88	121.90
1	AA	6150	DC	N3-C4-N4	5.05	121.54	118.00
1	AA	6216	DA	C5-C6-N1	-5.05	115.17	117.70
1	AA	6221	DT	C4'-C3'-C2'	-5.05	98.55	103.10
1	AA	6281	DA	O4'-C1'-N9	5.05	111.54	108.00
1	AA	6344	DT	O4'-C1'-N1	5.05	111.54	108.00
1	AA	6803	DA	C5-C6-N1	-5.05	115.17	117.70
1	AA	6866	DC	N3-C4-N4	5.05	121.54	118.00
1	AA	6919	DC	N3-C4-N4	5.05	121.54	118.00
1	AA	6982	DC	N3-C4-C5	-5.05	119.88	121.90
11	AB	39	DC	N3-C4-C5	-5.05	119.88	121.90
13	AD	4	DA	C5-C6-N1	-5.05	115.17	117.70
13	AD	49	DC	N3-C4-C5	-5.05	119.88	121.90
17	AH	26	DT	O4'-C1'-N1	5.05	111.54	108.00
23	AN	7	DA	C5-C6-N1	-5.05	115.17	117.70
39	Af	33	DG	P-O3'-C3'	5.05	125.77	119.70
58	B2	36	DA	C5-C6-N1	-5.05	115.17	117.70
64	B8	3	DA	C5-C6-N1	-5.05	115.17	117.70
74	BJ	29	DC	N3-C4-C5	-5.05	119.88	121.90
79	BO	3	DC	N3-C4-C5	-5.05	119.88	121.90
97	Bg	39	DC	N3-C4-C5	-5.05	119.88	121.90
115	C5	49	DA	C5-C6-N6	-5.05	119.66	123.70
1	AA	955	DG	O4'-C1'-C2'	-5.05	101.86	105.90
1	AA	1563	DC	N3-C4-N4	5.05	121.54	118.00
1	AA	2608	DT	O4'-C1'-N1	5.05	111.54	108.00
1	AA	2795	DC	N3-C4-N4	5.05	121.54	118.00
1	AA	3529	DC	N3-C4-C5	-5.05	119.88	121.90
1	AA	4278	DC	N3-C4-C5	-5.05	119.88	121.90
1	AA	6946	DC	N3-C4-C5	-5.05	119.88	121.90
48	Ao	6	DC	O4'-C1'-C2'	-5.05	101.86	105.90
62	B6	41	DC	N3-C4-C5	-5.05	119.88	121.90
68	BD	34	DG	P-O3'-C3'	5.05	125.76	119.70
76	BL	22	DC	N3-C4-N4	5.05	121.54	118.00
124	CG	31	DA	C5-C6-N1	-5.05	115.17	117.70
135	CR	16	DA	C5-C6-N1	-5.05	115.17	117.70
144	Cb	2	DA	C5-C6-N6	-5.05	119.66	123.70
146	Cd	27	DA	C5-C6-N1	-5.05	115.17	117.70
1	AA	616	DC	N3-C4-N4	5.05	121.54	118.00
1	AA	1572	DA	C5-C6-N1	-5.05	115.17	117.70
1	AA	1628	DA	C5-C6-N6	-5.05	119.66	123.70
1	AA	2233	DC	N3-C4-N4	5.05	121.54	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2300	DC	N3-C4-N4	5.05	121.54	118.00
1	AA	3215	DC	N3-C4-N4	5.05	121.54	118.00
1	AA	3808	DC	O4'-C1'-C2'	-5.05	101.86	105.90
1	AA	4403	DC	N3-C4-C5	-5.05	119.88	121.90
1	AA	4867	DC	N3-C4-N4	5.05	121.54	118.00
1	AA	4875	DC	N3-C4-N4	5.05	121.53	118.00
1	AA	5315	DC	O4'-C4'-C3'	-5.05	102.48	104.50
1	AA	6141	DA	P-O3'-C3'	5.05	125.76	119.70
1	AA	6696	DG	O4'-C1'-C2'	-5.05	101.86	105.90
1	AA	6994	DA	C5-C6-N1	-5.05	115.17	117.70
9	A7	40	DA	C5-C6-N1	-5.05	115.17	117.70
36	Ab	43	DT	C1'-O4'-C4'	-5.05	105.05	110.10
37	Ac	29	DC	N3-C4-N4	5.05	121.54	118.00
68	BD	17	DG	O4'-C1'-N9	5.05	111.54	108.00
89	BY	12	DC	N3-C4-C5	-5.05	119.88	121.90
104	Bn	17	DG	P-O3'-C3'	5.05	125.76	119.70
115	C5	36	DA	C5-C6-N1	-5.05	115.17	117.70
139	CV	1	DC	N3-C4-C5	-5.05	119.88	121.90
145	Cc	2	DC	N3-C4-N4	5.05	121.54	118.00
1	AA	147	DC	O4'-C1'-N1	5.05	111.53	108.00
1	AA	199	DC	N3-C4-N4	5.05	121.53	118.00
1	AA	1173	DC	N3-C4-C5	-5.05	119.88	121.90
1	AA	1274	DA	C5-C6-N1	-5.05	115.17	117.70
1	AA	1337	DC	N3-C4-C5	-5.05	119.88	121.90
1	AA	1633	DA	C5-C6-N1	-5.05	115.18	117.70
1	AA	1869	DT	O4'-C1'-N1	5.05	111.53	108.00
1	AA	3034	DC	N3-C4-N4	5.05	121.53	118.00
1	AA	3336	DA	C5-C6-N1	-5.05	115.17	117.70
1	AA	3650	DC	N3-C4-N4	5.05	121.53	118.00
1	AA	3984	DC	N3-C4-N4	5.05	121.53	118.00
1	AA	6033	DT	C1'-O4'-C4'	-5.05	105.05	110.10
1	AA	6638	DC	N3-C4-C5	-5.05	119.88	121.90
1	AA	6735	DT	O4'-C1'-N1	5.05	111.53	108.00
13	AD	26	DC	N3-C4-N4	5.05	121.53	118.00
22	AM	4	DA	C5-C6-N1	-5.05	115.18	117.70
23	AN	38	DA	O4'-C1'-N9	5.05	111.53	108.00
25	AP	19	DA	C5-C6-N1	-5.05	115.17	117.70
38	Ad	48	DA	C5-C6-N1	-5.05	115.17	117.70
100	Bj	3	DC	N3-C4-N4	5.05	121.53	118.00
101	Bk	2	DA	C5-C6-N1	-5.05	115.17	117.70
109	Bs	5	DC	N3-C4-C5	-5.05	119.88	121.90
113	C3	2	DC	N3-C4-N4	5.05	121.53	118.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
115	C5	49	DA	P-O3'-C3'	5.05	125.76	119.70
129	CL	48	DA	C5-C6-N6	-5.05	119.66	123.70
135	CR	7	DC	N3-C4-C5	-5.05	119.88	121.90
136	CS	8	DA	C5-C6-N1	-5.05	115.18	117.70
138	CU	14	DA	C5-C6-N1	-5.05	115.17	117.70
1	AA	773	DC	N3-C4-N4	5.05	121.53	118.00
1	AA	2671	DA	C5-C6-N1	-5.05	115.18	117.70
1	AA	3786	DC	N3-C4-N4	5.05	121.53	118.00
1	AA	4569	DC	N3-C4-C5	-5.05	119.88	121.90
1	AA	5301	DA	C5-C6-N1	-5.05	115.18	117.70
1	AA	5728	DA	C5-C6-N1	-5.05	115.18	117.70
1	AA	5862	DC	N3-C4-C5	-5.05	119.88	121.90
1	AA	6203	DC	N3-C4-N4	5.05	121.53	118.00
1	AA	6360	DA	C5-C6-N1	-5.05	115.18	117.70
1	AA	6779	DA	C5-C6-N1	-5.05	115.18	117.70
1	AA	6933	DC	N3-C4-N4	5.05	121.53	118.00
4	A2	5	DC	N3-C4-C5	-5.05	119.88	121.90
5	A3	7	DA	C5-C6-N1	-5.05	115.18	117.70
21	AL	1	DA	C5-C6-N1	-5.05	115.18	117.70
33	AX	46	DC	N3-C4-C5	-5.05	119.88	121.90
43	Aj	59	DA	P-O3'-C3'	5.05	125.76	119.70
121	CD	7	DC	N3-C4-N4	5.05	121.53	118.00
142	CY	35	DC	N3-C4-C5	-5.05	119.88	121.90
146	Cd	29	DA	C5-C6-N1	-5.05	115.18	117.70
147	Ce	9	DC	N3-C4-C5	-5.05	119.88	121.90
1	AA	435	DG	O4'-C1'-N9	5.05	111.53	108.00
1	AA	854	DC	N3-C4-C5	-5.05	119.88	121.90
1	AA	1904	DA	C5-C6-N1	-5.05	115.18	117.70
1	AA	2575	DT	O4'-C1'-N1	5.05	111.53	108.00
1	AA	2603	DC	N3-C4-C5	-5.05	119.88	121.90
1	AA	2910	DC	N3-C4-C5	-5.05	119.88	121.90
1	AA	3186	DG	P-O3'-C3'	5.05	125.76	119.70
1	AA	3803	DC	N3-C4-C5	-5.05	119.88	121.90
1	AA	4105	DC	N3-C4-C5	-5.05	119.88	121.90
1	AA	4297	DT	O4'-C4'-C3'	-5.05	102.48	104.50
1	AA	5108	DA	C5-C6-N1	-5.05	115.18	117.70
1	AA	5560	DC	N3-C4-C5	-5.05	119.88	121.90
4	A2	49	DA	C1'-O4'-C4'	-5.05	105.05	110.10
11	AB	30	DG	C4'-C3'-C2'	-5.05	98.56	103.10
21	AL	2	DT	C3'-C2'-C1'	-5.05	96.44	102.50
28	AS	62	DC	N3-C4-N4	5.05	121.53	118.00
35	AZ	21	DG	O4'-C1'-N9	5.05	111.53	108.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
37	Ac	55	DA	C5-C6-N6	-5.05	119.66	123.70
46	Am	14	DA	O4'-C1'-N9	5.05	111.53	108.00
50	Au	2	DC	N3-C4-N4	5.05	121.53	118.00
79	BO	47	DC	N3-C4-N4	5.05	121.53	118.00
91	Ba	48	DC	N3-C4-C5	-5.05	119.88	121.90
100	Bj	38	DC	N3-C4-C5	-5.05	119.88	121.90
131	CN	31	DT	O4'-C1'-N1	5.05	111.53	108.00
144	Cb	2	DA	C5-C6-N1	-5.05	115.18	117.70
154	Cr	46	DC	N3-C4-C5	-5.05	119.88	121.90
1	AA	90	DC	N3-C4-C5	-5.04	119.88	121.90
1	AA	2449	DA	C5-C6-N1	-5.04	115.18	117.70
1	AA	3772	DA	C5-C6-N1	-5.04	115.18	117.70
1	AA	4295	DT	O4'-C1'-N1	5.04	111.53	108.00
1	AA	4524	DC	N3-C4-C5	-5.04	119.88	121.90
1	AA	7106	DC	N3-C4-C5	-5.04	119.88	121.90
4	A2	15	DA	O4'-C1'-N9	5.04	111.53	108.00
13	AD	32	DC	N3-C4-C5	-5.04	119.88	121.90
14	AE	46	DA	C5-C6-N1	-5.04	115.18	117.70
58	B2	12	DC	N3-C4-C5	-5.04	119.88	121.90
83	BS	48	DG	O4'-C1'-N9	5.04	111.53	108.00
130	CM	48	DT	C1'-O4'-C4'	-5.04	105.06	110.10
1	AA	1541	DA	C5-C6-N1	-5.04	115.18	117.70
1	AA	1877	DC	N3-C4-C5	-5.04	119.88	121.90
1	AA	2356	DC	O4'-C1'-N1	5.04	111.53	108.00
1	AA	2965	DG	C3'-C2'-C1'	-5.04	96.45	102.50
1	AA	3217	DA	P-O3'-C3'	5.04	125.75	119.70
1	AA	3238	DC	N3-C4-C5	-5.04	119.88	121.90
1	AA	3314	DA	C5-C6-N1	-5.04	115.18	117.70
1	AA	3548	DC	O4'-C1'-C2'	-5.04	101.86	105.90
1	AA	3979	DA	O4'-C1'-N9	5.04	111.53	108.00
1	AA	5575	DA	C5-C6-N1	-5.04	115.18	117.70
1	AA	5588	DC	N3-C4-N4	5.04	121.53	118.00
1	AA	5795	DC	N3-C4-N4	5.04	121.53	118.00
1	AA	5926	DC	N3-C4-C5	-5.04	119.88	121.90
7	A5	29	DA	C5-C6-N1	-5.04	115.18	117.70
23	AN	2	DA	O4'-C1'-N9	5.04	111.53	108.00
63	B7	40	DA	C5-C6-N1	-5.04	115.18	117.70
65	B9	21	DA	C5-C6-N1	-5.04	115.18	117.70
81	BQ	8	DC	N3-C4-C5	-5.04	119.88	121.90
125	CH	1	DA	C5-C6-N1	-5.04	115.18	117.70
128	CK	8	DA	C5-C6-N1	-5.04	115.18	117.70
128	CK	14	DC	N3-C4-C5	-5.04	119.88	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
130	CM	26	DA	C5-C6-N1	-5.04	115.18	117.70
148	Cf	5	DC	N3-C4-C5	-5.04	119.88	121.90
1	AA	603	DC	O4'-C1'-N1	5.04	111.53	108.00
1	AA	629	DC	N3-C4-N4	5.04	121.53	118.00
1	AA	669	DC	N3-C4-N4	5.04	121.53	118.00
1	AA	1175	DC	N3-C4-C5	-5.04	119.88	121.90
1	AA	1197	DT	O4'-C1'-N1	5.04	111.53	108.00
1	AA	1398	DC	N3-C4-C5	-5.04	119.88	121.90
1	AA	2078	DC	N3-C4-N4	5.04	121.53	118.00
1	AA	3134	DC	N3-C4-C5	-5.04	119.88	121.90
1	AA	3343	DA	C5-C6-N1	-5.04	115.18	117.70
1	AA	3778	DC	N3-C4-C5	-5.04	119.88	121.90
1	AA	4003	DG	O4'-C1'-N9	5.04	111.53	108.00
1	AA	4027	DA	C5-C6-N1	-5.04	115.18	117.70
1	AA	4332	DA	C5-C6-N1	-5.04	115.18	117.70
1	AA	5524	DA	C5-C6-N1	-5.04	115.18	117.70
1	AA	5747	DA	C5-C6-N6	-5.04	119.67	123.70
1	AA	5824	DC	N3-C4-C5	-5.04	119.88	121.90
1	AA	6622	DC	O4'-C1'-N1	5.04	111.53	108.00
22	AM	21	DC	N3-C4-C5	-5.04	119.88	121.90
29	AT	1	DA	C5-C6-N1	-5.04	115.18	117.70
39	Af	30	DA	C5-C6-N1	-5.04	115.18	117.70
45	Al	16	DT	O4'-C1'-C2'	-5.04	101.87	105.90
57	B1	45	DA	C5-C6-N1	-5.04	115.18	117.70
59	B3	28	DA	C5-C6-N1	-5.04	115.18	117.70
81	BQ	13	DC	N3-C4-C5	-5.04	119.88	121.90
93	Bc	37	DA	C5-C6-N1	-5.04	115.18	117.70
106	Bp	6	DC	C1'-O4'-C4'	-5.04	105.06	110.10
118	C8	5	DA	C5-C6-N1	-5.04	115.18	117.70
126	CI	33	DC	N3-C4-N4	5.04	121.53	118.00
141	CX	39	DA	C5-C6-N1	-5.04	115.18	117.70
141	CX	41	DA	C5-C6-N1	-5.04	115.18	117.70
143	CZ	9	DA	C5-C6-N1	-5.04	115.18	117.70
143	CZ	23	DC	N3-C4-C5	-5.04	119.88	121.90
144	Cb	10	DG	N3-C2-N2	5.04	123.43	119.90
145	Cc	44	DA	C5-C6-N1	-5.04	115.18	117.70
156	Ct	43	DC	O4'-C1'-N1	5.04	111.53	108.00
1	AA	221	DC	N3-C4-C5	-5.04	119.88	121.90
1	AA	1141	DC	N3-C4-C5	-5.04	119.88	121.90
1	AA	1681	DA	C5-C6-N1	-5.04	115.18	117.70
1	AA	3215	DC	N3-C4-C5	-5.04	119.88	121.90
1	AA	6323	DA	C4'-C3'-C2'	-5.04	98.56	103.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	7202	DC	O4'-C4'-C3'	-5.04	102.48	104.50
58	B2	31	DC	N3-C4-C5	-5.04	119.88	121.90
63	B7	8	DA	C5-C6-N1	-5.04	115.18	117.70
71	BG	29	DA	C5-C6-N1	-5.04	115.18	117.70
98	Bh	46	DC	N3-C4-C5	-5.04	119.88	121.90
131	CN	2	DA	C5-C6-N1	-5.04	115.18	117.70
137	CT	9	DA	C5-C6-N1	-5.04	115.18	117.70
1	AA	1338	DA	P-O3'-C3'	5.04	125.75	119.70
1	AA	2780	DC	N3-C4-C5	-5.04	119.89	121.90
1	AA	3024	DC	N3-C4-C5	-5.04	119.88	121.90
1	AA	3181	DA	P-O3'-C3'	5.04	125.75	119.70
1	AA	4749	DA	C5-C6-N6	-5.04	119.67	123.70
1	AA	4835	DC	O4'-C1'-N1	5.04	111.53	108.00
1	AA	5385	DT	O4'-C1'-N1	5.04	111.53	108.00
1	AA	5643	DA	C5-C6-N1	-5.04	115.18	117.70
1	AA	6302	DC	N3-C4-C5	-5.04	119.89	121.90
1	AA	6880	DA	C5-C6-N1	-5.04	115.18	117.70
1	AA	6984	DC	N3-C4-N4	5.04	121.53	118.00
1	AA	7152	DA	O4'-C1'-N9	5.04	111.53	108.00
14	AE	6	DA	C5-C6-N1	-5.04	115.18	117.70
17	AH	15	DC	N3-C4-C5	-5.04	119.89	121.90
29	AT	2	DT	O4'-C1'-C2'	-5.04	101.87	105.90
43	Aj	18	DA	C5-C6-N1	-5.04	115.18	117.70
47	An	38	DC	N3-C4-C5	-5.04	119.89	121.90
60	B4	38	DC	N3-C4-C5	-5.04	119.89	121.90
87	BW	27	DC	N3-C4-C5	-5.04	119.88	121.90
101	Bk	40	DC	N3-C4-C5	-5.04	119.89	121.90
133	CP	1	DC	N3-C4-C5	-5.04	119.88	121.90
136	CS	10	DA	C5-C6-N1	-5.04	115.18	117.70
136	CS	40	DC	C1'-O4'-C4'	-5.04	105.06	110.10
1	AA	1310	DC	N3-C4-C5	-5.04	119.89	121.90
1	AA	5447	DA	C5-C6-N1	-5.04	115.18	117.70
1	AA	5563	DA	P-O3'-C3'	5.04	125.74	119.70
42	Ai	38	DC	N3-C4-C5	-5.04	119.89	121.90
101	Bk	21	DA	C5-C6-N1	-5.04	115.18	117.70
105	Bo	16	DC	N3-C4-N4	5.04	121.53	118.00
148	Cf	23	DC	N3-C4-N4	5.04	121.53	118.00
1	AA	746	DC	N3-C4-C5	-5.04	119.89	121.90
1	AA	1075	DC	N3-C4-C5	-5.04	119.89	121.90
1	AA	1318	DA	C5-C6-N6	-5.04	119.67	123.70
1	AA	2363	DT	P-O3'-C3'	5.04	125.74	119.70
1	AA	2772	DC	N3-C4-C5	-5.04	119.89	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	2940	DC	N3-C4-C5	-5.04	119.89	121.90
1	AA	3214	DA	P-O3'-C3'	5.04	125.74	119.70
1	AA	3659	DA	C5-C6-N1	-5.04	115.18	117.70
1	AA	3872	DC	N3-C4-C5	-5.04	119.89	121.90
1	AA	5090	DC	N3-C4-N4	5.04	121.53	118.00
1	AA	5963	DG	P-O5'-C5'	5.04	128.96	120.90
1	AA	6455	DC	N3-C4-C5	-5.04	119.89	121.90
1	AA	7225	DT	O4'-C4'-C3'	-5.04	102.49	104.50
36	Ab	18	DA	C5-C6-N1	-5.04	115.18	117.70
57	B1	58	DA	C5-C6-N1	-5.04	115.18	117.70
62	B6	30	DG	C1'-O4'-C4'	-5.04	105.06	110.10
69	BE	60	DC	N3-C4-N4	5.04	121.53	118.00
75	BK	6	DC	C5-C4-N4	-5.04	116.68	120.20
83	BS	15	DC	N3-C4-C5	-5.04	119.89	121.90
92	Bb	2	DC	N3-C4-C5	-5.04	119.89	121.90
125	CH	26	DA	C5-C6-N1	-5.04	115.18	117.70
127	CJ	41	DC	N3-C4-C5	-5.04	119.89	121.90
128	CK	3	DA	C5-C6-N1	-5.04	115.18	117.70
133	CP	55	DC	N3-C4-C5	-5.04	119.89	121.90
135	CR	35	DC	N3-C4-N4	5.04	121.52	118.00
139	CV	32	DA	O4'-C1'-N9	5.04	111.53	108.00
142	CY	12	DC	O4'-C1'-C2'	-5.04	101.87	105.90
148	Cf	21	DA	C5-C6-N1	-5.04	115.18	117.70
161	Cy	51	DA	P-O5'-C5'	-5.04	112.84	120.90
1	AA	217	DA	P-O3'-C3'	5.03	125.74	119.70
1	AA	575	DC	N3-C4-N4	5.03	121.52	118.00
1	AA	598	DC	N3-C4-C5	-5.03	119.89	121.90
1	AA	815	DC	N3-C4-C5	-5.03	119.89	121.90
1	AA	1194	DC	N3-C4-C5	-5.03	119.89	121.90
1	AA	1591	DA	C5-C6-N1	-5.03	115.18	117.70
1	AA	1885	DC	N3-C4-C5	-5.03	119.89	121.90
1	AA	2180	DC	N3-C4-C5	-5.03	119.89	121.90
1	AA	2366	DA	C4-C5-C6	5.03	119.52	117.00
1	AA	2423	DG	O4'-C1'-N9	5.03	111.52	108.00
1	AA	2822	DA	C5-C6-N1	-5.03	115.18	117.70
1	AA	3756	DC	N3-C4-C5	-5.03	119.89	121.90
1	AA	4929	DA	O4'-C4'-C3'	-5.03	102.49	104.50
1	AA	5055	DA	C5-C6-N1	-5.03	115.18	117.70
1	AA	5262	DC	N3-C4-C5	-5.03	119.89	121.90
1	AA	5310	DT	O4'-C1'-N1	5.03	111.52	108.00
1	AA	5341	DC	N3-C4-C5	-5.03	119.89	121.90
1	AA	6168	DA	C5-C6-N1	-5.03	115.18	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	7034	DG	P-O3'-C3'	5.03	125.74	119.70
1	AA	7203	DC	N3-C4-C5	-5.03	119.89	121.90
5	A3	34	DA	O4'-C1'-N9	5.03	111.52	108.00
54	Ay	2	DA	C5-C6-N1	-5.03	115.18	117.70
70	BF	15	DA	C5-C6-N1	-5.03	115.18	117.70
87	BW	7	DA	O4'-C1'-N9	5.03	111.52	108.00
105	Bo	37	DC	N3-C4-C5	-5.03	119.89	121.90
106	Bp	20	DC	N3-C4-C5	-5.03	119.89	121.90
114	C4	26	DC	N3-C4-C5	-5.03	119.89	121.90
119	CB	2	DC	N3-C4-N4	5.03	121.52	118.00
1	AA	430	DC	N3-C4-C5	-5.03	119.89	121.90
1	AA	1102	DA	C5-C6-N1	-5.03	115.18	117.70
1	AA	1973	DC	N3-C4-C5	-5.03	119.89	121.90
1	AA	2812	DC	N3-C4-C5	-5.03	119.89	121.90
21	AL	4	DA	O4'-C1'-N9	5.03	111.52	108.00
24	AO	41	DA	C5-C6-N6	-5.03	119.67	123.70
31	AV	48	DA	C5-C6-N1	-5.03	115.18	117.70
59	B3	47	DC	N3-C4-C5	-5.03	119.89	121.90
61	B5	9	DC	P-O3'-C3'	5.03	125.74	119.70
61	B5	34	DG	P-O5'-C5'	-5.03	112.85	120.90
72	BH	24	DC	O4'-C1'-N1	5.03	111.52	108.00
73	BI	23	DA	C5-C6-N1	-5.03	115.18	117.70
143	CZ	33	DA	C5-C6-N1	-5.03	115.18	117.70
161	Cy	60	DC	N3-C4-C5	-5.03	119.89	121.90
1	AA	1217	DC	N3-C4-N4	5.03	121.52	118.00
1	AA	1383	DA	C5-C6-N1	-5.03	115.19	117.70
1	AA	1852	DC	N3-C4-C5	-5.03	119.89	121.90
1	AA	2356	DC	N3-C4-C5	-5.03	119.89	121.90
1	AA	3184	DC	N3-C4-C5	-5.03	119.89	121.90
1	AA	3544	DC	N3-C4-N4	5.03	121.52	118.00
1	AA	3707	DC	N3-C4-C5	-5.03	119.89	121.90
1	AA	4373	DC	N3-C4-C5	-5.03	119.89	121.90
1	AA	5074	DT	C4'-C3'-C2'	-5.03	98.57	103.10
1	AA	5727	DA	C1'-O4'-C4'	-5.03	105.07	110.10
1	AA	5935	DC	N3-C4-N4	5.03	121.52	118.00
1	AA	6552	DA	C5-C6-N1	-5.03	115.19	117.70
1	AA	6693	DC	N3-C4-C5	-5.03	119.89	121.90
1	AA	6800	DA	C5-C6-N1	-5.03	115.18	117.70
10	A8	42	DA	C5-C6-N1	-5.03	115.18	117.70
50	Au	11	DC	N3-C4-C5	-5.03	119.89	121.90
76	BL	38	DA	C5-C6-N1	-5.03	115.19	117.70
88	BX	45	DC	N3-C4-C5	-5.03	119.89	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
100	Bj	36	DA	C5-C6-N1	-5.03	115.18	117.70
104	Bn	57	DC	N3-C4-C5	-5.03	119.89	121.90
134	CQ	20	DA	C5-C6-N1	-5.03	115.19	117.70
149	Cg	40	DA	P-O3'-C3'	5.03	125.74	119.70
152	Cp	40	DC	N3-C4-C5	-5.03	119.89	121.90
155	Cs	6	DA	C4'-C3'-C2'	-5.03	98.57	103.10
159	Cw	8	DA	C5-C6-N1	-5.03	115.19	117.70
162	Cz	32	DC	O4'-C4'-C3'	-5.03	102.49	104.50
1	AA	634	DT	P-O3'-C3'	5.03	125.73	119.70
1	AA	2834	DC	N3-C4-C5	-5.03	119.89	121.90
1	AA	2927	DC	N3-C4-C5	-5.03	119.89	121.90
1	AA	3308	DC	N3-C4-C5	-5.03	119.89	121.90
1	AA	3493	DA	C5-C6-N1	-5.03	115.19	117.70
1	AA	4075	DC	C1'-O4'-C4'	-5.03	105.07	110.10
1	AA	5028	DA	C5-C6-N1	-5.03	115.19	117.70
8	A6	21	DA	C5-C6-N1	-5.03	115.19	117.70
16	AG	29	DA	C5-C6-N1	-5.03	115.19	117.70
86	BV	35	DC	N3-C4-C5	-5.03	119.89	121.90
131	CN	38	DA	C5-C6-N1	-5.03	115.19	117.70
139	CV	4	DA	C5-C6-N1	-5.03	115.19	117.70
1	AA	505	DC	N3-C4-N4	5.03	121.52	118.00
1	AA	752	DA	C5-C6-N1	-5.03	115.19	117.70
1	AA	1226	DC	N3-C4-N4	5.03	121.52	118.00
1	AA	2050	DC	O4'-C1'-C2'	-5.03	101.88	105.90
1	AA	3643	DA	C5-C6-N1	-5.03	115.19	117.70
1	AA	3911	DC	N3-C4-C5	-5.03	119.89	121.90
1	AA	4084	DA	C5-C6-N1	-5.03	115.19	117.70
1	AA	4095	DG	C3'-C2'-C1'	-5.03	96.47	102.50
1	AA	5159	DC	O4'-C1'-N1	5.03	111.52	108.00
1	AA	6533	DC	N3-C4-C5	-5.03	119.89	121.90
1	AA	7053	DG	O4'-C1'-N9	5.03	111.52	108.00
11	AB	24	DA	C5-C6-N1	-5.03	115.19	117.70
30	AU	4	DC	O4'-C1'-N1	5.03	111.52	108.00
33	AX	23	DA	C5-C6-N1	-5.03	115.19	117.70
35	AZ	22	DT	C3'-C2'-C1'	-5.03	96.47	102.50
39	Af	40	DC	N3-C4-C5	-5.03	119.89	121.90
48	Ao	22	DC	N3-C4-C5	-5.03	119.89	121.90
97	Bg	10	DC	N3-C4-C5	-5.03	119.89	121.90
105	Bo	59	DC	N3-C4-N4	5.03	121.52	118.00
120	CC	16	DA	C5-C6-N1	-5.03	115.19	117.70
132	CO	2	DA	O4'-C1'-N9	5.03	111.52	108.00
136	CS	2	DT	P-O3'-C3'	5.03	125.73	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
152	Cp	16	DA	C5-C6-N1	-5.03	115.19	117.70
154	Cr	2	DC	N3-C4-N4	5.03	121.52	118.00
156	Ct	41	DA	C5-C6-N1	-5.03	115.19	117.70
1	AA	173	DC	N3-C4-C5	-5.03	119.89	121.90
1	AA	294	DC	N3-C4-N4	5.03	121.52	118.00
1	AA	949	DC	N3-C4-N4	5.03	121.52	118.00
1	AA	956	DC	N3-C4-C5	-5.03	119.89	121.90
1	AA	1168	DA	O4'-C1'-N9	5.03	111.52	108.00
1	AA	2180	DC	O4'-C1'-N1	5.03	111.52	108.00
1	AA	2785	DC	O4'-C1'-C2'	-5.03	101.88	105.90
1	AA	3517	DC	N3-C4-C5	-5.03	119.89	121.90
1	AA	4353	DA	C5-C6-N1	-5.03	115.19	117.70
1	AA	4428	DC	N3-C4-N4	5.03	121.52	118.00
1	AA	4843	DA	C5-C6-N1	-5.03	115.19	117.70
1	AA	4905	DG	O4'-C4'-C3'	-5.03	102.49	104.50
1	AA	5346	DA	C5-C6-N1	-5.03	115.19	117.70
1	AA	6287	DC	N3-C4-C5	-5.03	119.89	121.90
1	AA	6903	DG	P-O3'-C3'	5.03	125.73	119.70
1	AA	7025	DA	O4'-C1'-N9	5.03	111.52	108.00
1	AA	7065	DC	O4'-C1'-C2'	-5.03	101.88	105.90
1	AA	7067	DC	N3-C4-C5	-5.03	119.89	121.90
9	A7	45	DC	P-O3'-C3'	5.03	125.73	119.70
17	AH	46	DA	P-O3'-C3'	5.03	125.73	119.70
22	AM	34	DG	C4'-C3'-C2'	-5.03	98.58	103.10
42	Ai	7	DA	C5-C6-N1	-5.03	115.19	117.70
66	BB	20	DA	C5-C6-N1	-5.03	115.19	117.70
91	Ba	18	DC	N3-C4-C5	-5.03	119.89	121.90
96	Bf	19	DC	N3-C4-C5	-5.03	119.89	121.90
98	Bh	10	DG	O4'-C1'-N9	5.03	111.52	108.00
100	Bj	11	DC	O4'-C1'-N1	5.03	111.52	108.00
102	Bl	18	DC	N3-C4-C5	-5.03	119.89	121.90
118	C8	4	DA	C5-C6-N1	-5.03	115.19	117.70
121	CD	35	DA	C5-C6-N1	-5.03	115.19	117.70
133	CP	14	DC	P-O5'-C5'	-5.03	112.86	120.90
158	Cv	28	DC	N3-C4-C5	-5.03	119.89	121.90
160	Cx	41	DA	C5-C6-N6	-5.03	119.68	123.70
161	Cy	32	DC	C3'-C2'-C1'	-5.03	96.47	102.50
1	AA	146	DA	C5-C6-N6	-5.02	119.68	123.70
1	AA	5063	DA	C5-C6-N1	-5.02	115.19	117.70
20	AK	60	DG	P-O5'-C5'	-5.02	112.86	120.90
44	Ak	40	DA	C5-C6-N1	-5.02	115.19	117.70
54	Ay	13	DC	N3-C4-C5	-5.02	119.89	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
113	C3	30	DA	C5-C6-N1	-5.02	115.19	117.70
1	AA	176	DC	C1'-O4'-C4'	-5.02	105.08	110.10
1	AA	354	DC	N3-C4-C5	-5.02	119.89	121.90
1	AA	1417	DC	N3-C4-C5	-5.02	119.89	121.90
1	AA	2439	DC	O4'-C1'-N1	5.02	111.52	108.00
1	AA	2833	DC	C1'-O4'-C4'	-5.02	105.08	110.10
1	AA	4030	DA	C5-C6-N1	-5.02	115.19	117.70
1	AA	4545	DC	N3-C4-C5	-5.02	119.89	121.90
1	AA	5662	DA	C5-C6-N1	-5.02	115.19	117.70
1	AA	5851	DA	C5-C6-N1	-5.02	115.19	117.70
1	AA	6358	DC	N3-C4-C5	-5.02	119.89	121.90
5	A3	5	DC	N3-C4-N4	5.02	121.52	118.00
14	AE	5	DC	N3-C4-C5	-5.02	119.89	121.90
17	AH	14	DC	N3-C4-C5	-5.02	119.89	121.90
27	AR	48	DA	C5-C6-N1	-5.02	115.19	117.70
51	Av	17	DC	N3-C4-C5	-5.02	119.89	121.90
75	BK	10	DA	C5-C6-N1	-5.02	115.19	117.70
111	C1	27	DC	N3-C4-C5	-5.02	119.89	121.90
159	Cw	54	DC	N3-C4-C5	-5.02	119.89	121.90
1	AA	3865	DA	C5-C6-N1	-5.02	115.19	117.70
5	A3	38	DC	N3-C4-C5	-5.02	119.89	121.90
61	B5	31	DC	N3-C4-C5	-5.02	119.89	121.90
70	BF	33	DT	P-O3'-C3'	5.02	125.72	119.70
75	BK	9	DA	C5-C6-N1	-5.02	115.19	117.70
83	BS	6	DC	N3-C4-C5	-5.02	119.89	121.90
86	BV	37	DA	C5-C6-N1	-5.02	115.19	117.70
140	CW	27	DC	P-O3'-C3'	5.02	125.72	119.70
1	AA	192	DC	N3-C4-C5	-5.02	119.89	121.90
1	AA	897	DC	N3-C4-C5	-5.02	119.89	121.90
1	AA	1151	DA	C5-C6-N1	-5.02	115.19	117.70
1	AA	3138	DT	O4'-C1'-N1	5.02	111.51	108.00
1	AA	3405	DA	C5-C6-N1	-5.02	115.19	117.70
1	AA	4689	DA	P-O3'-C3'	5.02	125.72	119.70
1	AA	6815	DC	N3-C4-N4	5.02	121.51	118.00
1	AA	6826	DA	C5-C6-N1	-5.02	115.19	117.70
2	A0	29	DA	O4'-C1'-C2'	-5.02	101.89	105.90
7	A5	21	DA	C5-C6-N1	-5.02	115.19	117.70
13	AD	3	DA	C5-C6-N1	-5.02	115.19	117.70
17	AH	21	DC	N3-C4-C5	-5.02	119.89	121.90
18	AI	26	DC	N3-C4-C5	-5.02	119.89	121.90
34	AY	10	DC	N3-C4-N4	5.02	121.51	118.00
49	As	3	DC	N3-C4-C5	-5.02	119.89	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
52	Aw	13	DA	C5-C6-N1	-5.02	115.19	117.70
83	BS	45	DC	N3-C4-C5	-5.02	119.89	121.90
116	C6	34	DC	N3-C4-C5	-5.02	119.89	121.90
118	C8	12	DA	C5-C6-N6	-5.02	119.68	123.70
125	CH	40	DA	C5-C6-N1	-5.02	115.19	117.70
126	CI	33	DC	O4'-C1'-N1	5.02	111.51	108.00
1	AA	136	DC	N3-C4-C5	-5.02	119.89	121.90
1	AA	470	DC	N3-C4-N4	5.02	121.51	118.00
1	AA	1769	DC	O4'-C1'-C2'	-5.02	101.89	105.90
1	AA	2148	DT	O4'-C1'-N1	5.02	111.51	108.00
1	AA	2576	DC	O4'-C1'-C2'	-5.02	101.89	105.90
1	AA	2896	DC	N3-C4-C5	-5.02	119.89	121.90
1	AA	4103	DT	O4'-C1'-C2'	-5.02	101.89	105.90
1	AA	4316	DT	C3'-C2'-C1'	-5.02	96.48	102.50
1	AA	5023	DA	C5-C6-N1	-5.02	115.19	117.70
1	AA	5551	DT	O4'-C1'-N1	5.02	111.51	108.00
1	AA	6269	DA	O4'-C1'-N9	5.02	111.51	108.00
3	A1	20	DC	N3-C4-C5	-5.02	119.89	121.90
3	A1	30	DC	N3-C4-N4	5.02	121.51	118.00
18	AI	21	DC	O4'-C1'-N1	5.02	111.51	108.00
51	Av	6	DC	C2-N3-C4	5.02	122.41	119.90
61	B5	28	DC	N3-C4-C5	-5.02	119.89	121.90
67	BC	29	DC	N3-C4-C5	-5.02	119.89	121.90
67	BC	37	DA	C5-C6-N1	-5.02	115.19	117.70
69	BE	6	DA	C5-C6-N1	-5.02	115.19	117.70
69	BE	49	DA	C5-C6-N1	-5.02	115.19	117.70
94	Bd	14	DA	C5-C6-N1	-5.02	115.19	117.70
98	Bh	9	DG	C3'-C2'-C1'	-5.02	96.48	102.50
104	Bn	39	DA	C5-C6-N6	-5.02	119.69	123.70
113	C3	34	DC	N3-C4-C5	-5.02	119.89	121.90
119	CB	31	DA	C5-C6-N1	-5.02	115.19	117.70
1	AA	1397	DC	N3-C4-C5	-5.02	119.89	121.90
1	AA	1982	DA	C5-C6-N1	-5.02	115.19	117.70
1	AA	2381	DA	C5-C6-N1	-5.02	115.19	117.70
1	AA	6169	DA	C5-C6-N1	-5.02	115.19	117.70
1	AA	7121	DA	C5-C6-N1	-5.02	115.19	117.70
8	A6	27	DT	P-O5'-C5'	-5.02	112.87	120.90
13	AD	28	DC	C1'-O4'-C4'	-5.02	105.08	110.10
17	AH	30	DC	C1'-O4'-C4'	-5.02	105.08	110.10
24	AO	43	DC	N3-C4-C5	-5.02	119.89	121.90
40	Ag	34	DA	C5-C6-N1	-5.02	115.19	117.70
58	B2	2	DC	N3-C4-C5	-5.02	119.89	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
65	B9	41	DC	N3-C4-C5	-5.02	119.89	121.90
71	BG	43	DA	C5-C6-N1	-5.02	115.19	117.70
78	BN	44	DC	N3-C4-N4	5.02	121.51	118.00
92	Bb	3	DC	N3-C4-C5	-5.02	119.89	121.90
96	Bf	15	DC	N3-C4-C5	-5.02	119.89	121.90
103	Bm	45	DC	N3-C4-C5	-5.02	119.89	121.90
1	AA	114	DA	P-O3'-C3'	5.01	125.72	119.70
1	AA	292	DC	N3-C4-C5	-5.01	119.89	121.90
1	AA	897	DC	C1'-O4'-C4'	-5.01	105.08	110.10
1	AA	1095	DA	C5-C6-N1	-5.01	115.19	117.70
1	AA	1894	DA	C5-C6-N1	-5.01	115.19	117.70
1	AA	2167	DA	C5-C6-N1	-5.01	115.19	117.70
1	AA	3345	DA	C5-C6-N6	-5.01	119.69	123.70
1	AA	3496	DA	C5-C6-N1	-5.01	115.19	117.70
1	AA	4264	DA	C3'-C2'-C1'	-5.01	96.48	102.50
1	AA	4757	DC	N3-C4-C5	-5.01	119.89	121.90
1	AA	4866	DC	N3-C4-N4	5.01	121.51	118.00
1	AA	7120	DC	N3-C4-C5	-5.01	119.89	121.90
1	AA	7215	DA	C5-C6-N1	-5.01	115.19	117.70
10	A8	9	DA	C5-C6-N1	-5.01	115.19	117.70
25	AP	23	DA	C5-C6-N1	-5.01	115.19	117.70
34	AY	36	DA	C5-C6-N1	-5.01	115.19	117.70
35	AZ	27	DC	O4'-C1'-N1	5.01	111.51	108.00
39	Af	44	DA	C5-C6-N1	-5.01	115.19	117.70
40	Ag	6	DA	C5-C6-N6	-5.01	119.69	123.70
40	Ag	6	DA	O4'-C1'-N9	5.01	111.51	108.00
50	Au	23	DA	C5-C6-N1	-5.01	115.19	117.70
54	Ay	26	DA	C5-C6-N1	-5.01	115.19	117.70
69	BE	44	DA	C5-C6-N1	-5.01	115.19	117.70
86	BV	44	DG	O4'-C1'-C2'	-5.01	101.89	105.90
91	Ba	7	DA	O4'-C1'-N9	5.01	111.51	108.00
113	C3	1	DC	N3-C4-N4	5.01	121.51	118.00
122	CE	18	DA	C5-C6-N1	-5.01	115.19	117.70
128	CK	10	DA	C5-C6-N1	-5.01	115.19	117.70
136	CS	32	DA	C5-C6-N1	-5.01	115.19	117.70
150	Ch	35	DC	N3-C4-C5	-5.01	119.89	121.90
160	Cx	46	DC	N3-C4-N4	5.01	121.51	118.00
1	AA	327	DC	N3-C4-N4	5.01	121.51	118.00
1	AA	4830	DC	P-O3'-C3'	5.01	125.72	119.70
1	AA	4862	DA	C5-C6-N1	-5.01	115.19	117.70
24	AO	43	DC	N3-C4-N4	5.01	121.51	118.00
71	BG	23	DT	P-O3'-C3'	5.01	125.72	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	12	DT	P-O3'-C3'	5.01	125.71	119.70
1	AA	761	DG	C4-N9-C1'	-5.01	119.98	126.50
1	AA	840	DC	N3-C4-C5	-5.01	119.90	121.90
1	AA	914	DA	C5-C6-N1	-5.01	115.19	117.70
1	AA	1926	DC	N3-C4-C5	-5.01	119.90	121.90
1	AA	2239	DA	C5-C6-N1	-5.01	115.19	117.70
1	AA	3443	DC	C4'-C3'-C2'	-5.01	98.59	103.10
1	AA	3472	DC	N3-C4-N4	5.01	121.51	118.00
1	AA	3904	DC	N3-C4-N4	5.01	121.51	118.00
1	AA	4023	DA	C5-C6-N1	-5.01	115.19	117.70
1	AA	4126	DC	N3-C4-C5	-5.01	119.90	121.90
1	AA	4150	DC	N3-C4-C5	-5.01	119.89	121.90
1	AA	4748	DA	C5-C6-N1	-5.01	115.19	117.70
1	AA	4998	DC	N3-C4-C5	-5.01	119.89	121.90
1	AA	5083	DT	O4'-C1'-N1	5.01	111.51	108.00
1	AA	5119	DC	N3-C4-C5	-5.01	119.89	121.90
1	AA	6110	DC	N3-C4-C5	-5.01	119.89	121.90
1	AA	6327	DA	C5-C6-N1	-5.01	115.19	117.70
1	AA	6439	DA	C5-C6-N1	-5.01	115.19	117.70
10	A8	13	DA	C5-C6-N1	-5.01	115.19	117.70
24	AO	24	DC	O4'-C1'-N1	5.01	111.51	108.00
46	Am	11	DA	C5-C6-N1	-5.01	115.19	117.70
61	B5	9	DC	N3-C4-N4	5.01	121.51	118.00
68	BD	1	DG	C1'-O4'-C4'	-5.01	105.09	110.10
74	BJ	18	DT	O4'-C1'-N1	5.01	111.51	108.00
89	BY	14	DC	N3-C4-C5	-5.01	119.90	121.90
99	Bi	15	DC	N3-C4-C5	-5.01	119.89	121.90
105	Bo	38	DA	C5-C6-N1	-5.01	115.19	117.70
114	C4	26	DC	N3-C4-N4	5.01	121.51	118.00
127	CJ	33	DA	C5-C6-N6	-5.01	119.69	123.70
149	Cg	39	DC	N3-C4-C5	-5.01	119.90	121.90
1	AA	368	DC	N3-C4-N4	5.01	121.51	118.00
1	AA	851	DT	P-O3'-C3'	5.01	125.71	119.70
1	AA	1511	DA	C5-C6-N1	-5.01	115.19	117.70
1	AA	5283	DC	N3-C4-C5	-5.01	119.90	121.90
1	AA	5952	DT	P-O3'-C3'	5.01	125.71	119.70
13	AD	22	DA	C5-C6-N1	-5.01	115.19	117.70
17	AH	3	DA	O4'-C1'-C2'	-5.01	101.89	105.90
19	AJ	46	DC	N3-C4-C5	-5.01	119.90	121.90
24	AO	11	DC	O4'-C1'-N1	5.01	111.51	108.00
29	AT	12	DA	C5-C6-N1	-5.01	115.19	117.70
31	AV	26	DC	N3-C4-C5	-5.01	119.90	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	Af	14	DG	C4-N9-C1'	5.01	133.01	126.50
43	Aj	37	DA	C5-C6-N1	-5.01	115.19	117.70
44	Ak	46	DA	C5-C6-N1	-5.01	115.19	117.70
49	As	28	DA	C5-C6-N1	-5.01	115.19	117.70
49	As	40	DC	N3-C4-C5	-5.01	119.90	121.90
80	BP	64	DC	N3-C4-C5	-5.01	119.90	121.90
81	BQ	47	DC	N3-C4-N4	5.01	121.51	118.00
92	Bb	43	DA	P-O3'-C3'	5.01	125.71	119.70
99	Bi	8	DA	C5-C6-N1	-5.01	115.19	117.70
139	CV	23	DA	C5-C6-N1	-5.01	115.20	117.70
150	Ch	12	DC	N3-C4-C5	-5.01	119.90	121.90
161	Cy	2	DA	C5-C6-N1	-5.01	115.19	117.70
1	AA	1700	DC	N3-C4-C5	-5.01	119.90	121.90
1	AA	1740	DA	C5-C6-N1	-5.01	115.20	117.70
1	AA	3272	DC	O4'-C1'-C2'	-5.01	101.89	105.90
1	AA	5919	DC	N3-C4-C5	-5.01	119.90	121.90
1	AA	6852	DA	C5-C6-N1	-5.01	115.20	117.70
1	AA	6999	DA	C5-C6-N1	-5.01	115.20	117.70
1	AA	7211	DC	N3-C4-C5	-5.01	119.90	121.90
15	AF	36	DC	N3-C4-C5	-5.01	119.90	121.90
17	AH	30	DC	N3-C4-C5	-5.01	119.90	121.90
19	AJ	18	DA	P-O3'-C3'	5.01	125.71	119.70
24	AO	1	DC	N3-C4-N4	5.01	121.51	118.00
26	AQ	6	DC	O4'-C1'-C2'	-5.01	101.89	105.90
32	AW	19	DC	N3-C4-C5	-5.01	119.90	121.90
123	CF	27	DC	N3-C4-C5	-5.01	119.90	121.90
131	CN	36	DA	C5-C6-N1	-5.01	115.20	117.70
151	Ck	27	DA	P-O3'-C3'	5.01	125.71	119.70
159	Cw	29	DC	N3-C4-N4	5.01	121.50	118.00
161	Cy	54	DA	C5-C6-N1	-5.01	115.20	117.70
1	AA	969	DA	C5-C6-N1	-5.01	115.20	117.70
1	AA	2576	DC	N3-C4-C5	-5.01	119.90	121.90
1	AA	3223	DC	N3-C4-C5	-5.01	119.90	121.90
1	AA	3810	DG	O4'-C1'-C2'	-5.01	101.89	105.90
1	AA	6180	DC	N3-C4-C5	-5.01	119.90	121.90
1	AA	6990	DA	C5-C6-N6	-5.01	119.69	123.70
1	AA	7060	DC	N3-C4-C5	-5.01	119.90	121.90
12	AC	1	DA	O4'-C1'-N9	5.01	111.50	108.00
15	AF	15	DA	C5-C6-N1	-5.01	115.20	117.70
23	AN	12	DT	O4'-C1'-N1	5.01	111.50	108.00
23	AN	37	DC	O4'-C1'-C2'	-5.01	101.89	105.90
39	Af	11	DA	C5-C6-N6	-5.01	119.69	123.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
45	Al	25	DC	N3-C4-C5	-5.01	119.90	121.90
61	B5	21	DA	C5-C6-N1	-5.01	115.20	117.70
81	BQ	1	DC	N3-C4-N4	5.01	121.50	118.00
92	Bb	4	DA	C5-C6-N1	-5.01	115.20	117.70
125	CH	22	DG	C3'-C2'-C1'	-5.01	96.49	102.50
126	CI	23	DA	C5-C6-N1	-5.01	115.20	117.70
128	CK	12	DA	O4'-C1'-C2'	-5.01	101.89	105.90
161	Cy	51	DA	C5-C6-N1	-5.01	115.20	117.70
1	AA	2629	DC	N3-C4-C5	-5.00	119.90	121.90
1	AA	3179	DC	O4'-C1'-N1	5.00	111.50	108.00
1	AA	4111	DC	N3-C4-N4	5.00	121.50	118.00
3	A1	30	DC	N3-C4-C5	-5.00	119.90	121.90
67	BC	29	DC	O4'-C1'-C2'	-5.00	101.90	105.90
69	BE	46	DC	N3-C4-C5	-5.00	119.90	121.90
131	CN	11	DA	C5-C6-N1	-5.00	115.20	117.70
144	Cb	11	DA	C5-C6-N1	-5.00	115.20	117.70
1	AA	194	DA	C5-C6-N1	-5.00	115.20	117.70
1	AA	546	DC	N3-C4-N4	5.00	121.50	118.00
1	AA	2037	DA	C5-C6-N1	-5.00	115.20	117.70
1	AA	3092	DC	N3-C4-C5	-5.00	119.90	121.90
1	AA	4122	DA	C5-C6-N1	-5.00	115.20	117.70
1	AA	4499	DC	N3-C4-C5	-5.00	119.90	121.90
1	AA	5298	DG	P-O3'-C3'	5.00	125.70	119.70
1	AA	6035	DA	C5-C6-N1	-5.00	115.20	117.70
1	AA	6654	DT	O4'-C1'-C2'	-5.00	101.90	105.90
1	AA	7168	DA	C5-C6-N1	-5.00	115.20	117.70
27	AR	6	DA	C5-C6-N1	-5.00	115.20	117.70
42	Ai	41	DC	N3-C4-C5	-5.00	119.90	121.90
59	B3	19	DC	N3-C4-C5	-5.00	119.90	121.90
82	BR	19	DA	C5-C6-N1	-5.00	115.20	117.70
92	Bb	44	DA	C5-C6-N1	-5.00	115.20	117.70
96	Bf	41	DA	C5-C6-N1	-5.00	115.20	117.70
103	Bm	2	DA	O4'-C1'-N9	5.00	111.50	108.00
110	C0	4	DA	C5-C6-N1	-5.00	115.20	117.70
114	C4	13	DC	N3-C4-N4	5.00	121.50	118.00
145	Cc	22	DA	P-O3'-C3'	5.00	125.70	119.70
157	Cu	1	DA	C4-C5-C6	5.00	119.50	117.00
1	AA	1006	DC	N3-C4-C5	-5.00	119.90	121.90
1	AA	2648	DC	N3-C4-C5	-5.00	119.90	121.90
1	AA	3020	DA	C5-C6-N1	-5.00	115.20	117.70
1	AA	3058	DC	N3-C4-N4	5.00	121.50	118.00
1	AA	4337	DT	O4'-C1'-C2'	-5.00	101.90	105.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AA	4650	DC	N3-C4-C5	-5.00	119.90	121.90
1	AA	5391	DC	N3-C4-C5	-5.00	119.90	121.90
1	AA	6350	DA	C5-C6-N1	-5.00	115.20	117.70
1	AA	6425	DA	C5-C6-N1	-5.00	115.20	117.70
1	AA	6788	DA	C5-C6-N1	-5.00	115.20	117.70
15	AF	7	DC	N3-C4-C5	-5.00	119.90	121.90
19	AJ	34	DC	N3-C4-C5	-5.00	119.90	121.90
25	AP	5	DA	C5-C6-N1	-5.00	115.20	117.70
38	Ad	47	DG	C4-N9-C1'	5.00	133.00	126.50
41	Ah	7	DT	O4'-C1'-N1	5.00	111.50	108.00
43	Aj	20	DA	P-O5'-C5'	5.00	128.90	120.90
95	Be	34	DG	O4'-C1'-C2'	-5.00	101.90	105.90
112	C2	49	DA	C5-C6-N1	-5.00	115.20	117.70
118	C8	43	DA	C4'-C3'-C2'	-5.00	98.60	103.10
124	CG	3	DC	N3-C4-C5	-5.00	119.90	121.90
132	CO	7	DC	N3-C4-C5	-5.00	119.90	121.90
137	CT	25	DA	C5-C6-N6	-5.00	119.70	123.70
142	CY	21	DC	N3-C4-C5	-5.00	119.90	121.90
147	Ce	49	DC	N3-C4-C5	-5.00	119.90	121.90
162	Cz	36	DA	C5-C6-N1	-5.00	115.20	117.70
162	Cz	47	DC	N3-C4-N4	5.00	121.50	118.00

All (121) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	AA	89	DT	C3'
1	AA	186	DT	C3'
1	AA	437	DT	C3'
1	AA	506	DT	C3'
1	AA	826	DT	C3'
1	AA	1266	DT	C3'
1	AA	1426	DT	C3'
1	AA	1733	DT	C3'
1	AA	1970	DT	C3'
1	AA	2251	DT	C3'
1	AA	2465	DT	C3',C4'
1	AA	2553	DT	C3',C4'
1	AA	2787	DT	C3'
1	AA	3149	DT	C3'
1	AA	3528	DT	C3'
1	AA	3539	DT	C3'
1	AA	3768	DT	C3'

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Mol	Chain	Res	Type	Atom
1	AA	4288	DT	C3’
1	AA	4430	DT	C3’
1	AA	4730	DT	C3’
1	AA	4904	DT	C3’
1	AA	5064	DT	C3’
1	AA	5144	DT	C3’
1	AA	5266	DT	C3’
1	AA	6185	DT	C3’,C4’
1	AA	6492	DT	C3’
1	AA	6502	DT	C3’
1	AA	6703	DT	C3’
1	AA	6938	DT	C3’
1	AA	7108	DT	C1’
1	AA	7109	DT	C3’,C4’
1	AA	7153	DT	C3’
1	AA	7212	DT	C1’
1	AA	7216	DT	C1’,C4’
1	AA	7225	DT	C3’
3	A1	18	DT	C3’
15	AF	34	DT	C3’
17	AH	26	DT	C3’
18	AI	10	DT	C3’
23	AN	26	DT	C3’
24	AO	6	DT	C3’
24	AO	46	DT	C3’
26	AQ	14	DT	C3’
26	AQ	30	DT	C3’
29	AT	2	DT	C3’
30	AU	34	DT	C3’
31	AV	50	DT	C3’
34	AY	2	DT	C3’
35	AZ	4	DT	C3’
35	AZ	20	DT	C3’
36	Ab	27	DT	C3’
36	Ab	43	DT	C3’
41	Ah	6	DT	C3’
43	Aj	54	DT	C3’
45	Al	2	DT	C3’
47	An	14	DT	C3’
48	Ao	30	DT	C3’
50	Au	6	DT	C3’
52	Aw	10	DT	C3’

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Mol	Chain	Res	Type	Atom
59	B3	22	DT	C3’
60	B4	42	DT	C3’
61	B5	14	DT	C3’
62	B6	13	DT	C3’
65	B9	10	DT	C3’
66	BB	46	DT	C3’
70	BF	22	DT	C3’
74	BJ	18	DT	C3’,C4’
74	BJ	34	DT	C3’
76	BL	14	DT	C3’
81	BQ	22	DT	C3’
86	BV	38	DT	C3’,C4’
87	BW	13	DT	C3’
89	BY	34	DT	C3’
93	Bc	48	DT	C3’
94	Bd	54	DT	C3’
95	Be	10	DT	C3’
96	Bf	2	DT	C3’
97	Bg	2	DT	C3’
103	Bm	26	DT	C3’
105	Bo	14	DT	C3’
106	Bp	29	DT	C1’,C4’
112	C2	14	DT	C3’
113	C3	26	DT	C3’
115	C5	24	DT	C3’
115	C5	40	DT	C3’
115	C5	56	DT	C3’
120	CC	29	DT	C3’
120	CC	45	DT	C3’
121	CD	14	DT	C3’
121	CD	46	DT	C3’
122	CE	30	DT	C3’
126	CI	14	DT	C3’
128	CK	30	DT	C3’
129	CL	30	DT	C3’
132	CO	30	DT	C3’
135	CR	10	DT	C3’
135	CR	26	DT	C3’
137	CT	10	DT	C3’
137	CT	26	DT	C3’
140	CW	24	DT	C3’,C4’
140	CW	32	DT	C3’,C4’

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Mol	Chain	Res	Type	Atom
142	CY	14	DT	C3'
144	Cb	42	DT	C3'
145	Cc	56	DT	C3'
147	Ce	10	DT	C3'
147	Ce	25	DT	C1',C4'
147	Ce	42	DT	C3'
155	Cs	22	DT	C3'
156	Ct	18	DT	C3'
157	Cu	30	DT	C3'

All (919) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	A0	16	DG	Sidechain
2	A0	27	DG	Sidechain
2	A0	30	DG	Sidechain
2	A0	44	DT	Sidechain
2	A0	55	DA	Sidechain
2	A0	7	DG	Sidechain
3	A1	2	DG	Sidechain
3	A1	21	DG	Sidechain
3	A1	34	DG	Sidechain
3	A1	44	DG	Sidechain
4	A2	12	DA	Sidechain
4	A2	19	DG	Sidechain
6	A4	34	DT	Sidechain
6	A4	7	DG	Sidechain
7	A5	16	DG	Sidechain
7	A5	22	DA	Sidechain
7	A5	44	DT	Sidechain
7	A5	46	DG	Sidechain
8	A6	15	DA	Sidechain
8	A6	39	DG	Sidechain
8	A6	50	DA	Sidechain
8	A6	8	DT	Sidechain
9	A7	14	DG	Sidechain
9	A7	15	DG	Sidechain
9	A7	43	DA	Sidechain
10	A8	1	DT	Sidechain
10	A8	14	DG	Sidechain
10	A8	18	DG	Sidechain
10	A8	37	DA	Sidechain

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Mol	Chain	Res	Type	Group
10	A8	38	DA	Sidechain
1	AA	1041	DG	Sidechain
1	AA	1068	DA	Sidechain
1	AA	1077	DG	Sidechain
1	AA	1080	DT	Sidechain
1	AA	1084	DG	Sidechain
1	AA	1085	DG	Sidechain
1	AA	1094	DG	Sidechain
1	AA	1108	DG	Sidechain
1	AA	1124	DT	Sidechain
1	AA	1147	DA	Sidechain
1	AA	115	DG	Sidechain
1	AA	116	DG	Sidechain
1	AA	118	DA	Sidechain
1	AA	1188	DG	Sidechain
1	AA	1195	DT	Sidechain
1	AA	1201	DG	Sidechain
1	AA	1216	DG	Sidechain
1	AA	1247	DG	Sidechain
1	AA	1251	DG	Sidechain
1	AA	1252	DG	Sidechain
1	AA	126	DG	Sidechain
1	AA	1273	DG	Sidechain
1	AA	1282	DG	Sidechain
1	AA	1289	DG	Sidechain
1	AA	1291	DC	Sidechain
1	AA	1296	DT	Sidechain
1	AA	1323	DT	Sidechain
1	AA	1324	DT	Sidechain
1	AA	1336	DG	Sidechain
1	AA	1383	DA	Sidechain
1	AA	1389	DG	Sidechain
1	AA	1405	DG	Sidechain
1	AA	1414	DG	Sidechain
1	AA	1415	DG	Sidechain
1	AA	1429	DG	Sidechain
1	AA	1438	DG	Sidechain
1	AA	1453	DT	Sidechain
1	AA	1456	DG	Sidechain
1	AA	1458	DG	Sidechain
1	AA	1475	DT	Sidechain
1	AA	1488	DG	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	1509	DG	Sidechain
1	AA	1519	DG	Sidechain
1	AA	1535	DG	Sidechain
1	AA	1540	DG	Sidechain
1	AA	1561	DG	Sidechain
1	AA	1579	DG	Sidechain
1	AA	1619	DG	Sidechain
1	AA	1649	DG	Sidechain
1	AA	1672	DG	Sidechain
1	AA	1688	DG	Sidechain
1	AA	1715	DT	Sidechain
1	AA	1725	DG	Sidechain
1	AA	1752	DG	Sidechain
1	AA	1782	DG	Sidechain
1	AA	180	DG	Sidechain
1	AA	1821	DG	Sidechain
1	AA	1849	DG	Sidechain
1	AA	1863	DG	Sidechain
1	AA	1878	DT	Sidechain
1	AA	1895	DA	Sidechain
1	AA	1906	DG	Sidechain
1	AA	1908	DA	Sidechain
1	AA	191	DG	Sidechain
1	AA	1917	DT	Sidechain
1	AA	1928	DA	Sidechain
1	AA	1934	DG	Sidechain
1	AA	1939	DG	Sidechain
1	AA	1940	DG	Sidechain
1	AA	1945	DG	Sidechain
1	AA	1946	DA	Sidechain
1	AA	1972	DT	Sidechain
1	AA	2032	DG	Sidechain
1	AA	2039	DT	Sidechain
1	AA	209	DG	Sidechain
1	AA	210	DG	Sidechain
1	AA	2101	DG	Sidechain
1	AA	2149	DG	Sidechain
1	AA	2153	DG	Sidechain
1	AA	2158	DG	Sidechain
1	AA	2185	DT	Sidechain
1	AA	2213	DG	Sidechain
1	AA	2238	DG	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	2260	DG	Sidechain
1	AA	2276	DG	Sidechain
1	AA	2318	DA	Sidechain
1	AA	2323	DG	Sidechain
1	AA	2388	DG	Sidechain
1	AA	24	DG	Sidechain
1	AA	2424	DG	Sidechain
1	AA	2429	DG	Sidechain
1	AA	2441	DG	Sidechain
1	AA	2455	DG	Sidechain
1	AA	2475	DG	Sidechain
1	AA	2484	DG	Sidechain
1	AA	2505	DG	Sidechain
1	AA	2512	DG	Sidechain
1	AA	2520	DG	Sidechain
1	AA	2533	DG	Sidechain
1	AA	2537	DG	Sidechain
1	AA	2541	DA	Sidechain
1	AA	2568	DG	Sidechain
1	AA	2573	DG	Sidechain
1	AA	2602	DG	Sidechain
1	AA	2612	DG	Sidechain
1	AA	2618	DG	Sidechain
1	AA	2628	DG	Sidechain
1	AA	2638	DG	Sidechain
1	AA	266	DG	Sidechain
1	AA	2690	DT	Sidechain
1	AA	2707	DG	Sidechain
1	AA	2732	DA	Sidechain
1	AA	2776	DG	Sidechain
1	AA	2802	DA	Sidechain
1	AA	2831	DG	Sidechain
1	AA	2840	DG	Sidechain
1	AA	2849	DG	Sidechain
1	AA	285	DG	Sidechain
1	AA	2880	DT	Sidechain
1	AA	2881	DC	Sidechain
1	AA	2882	DG	Sidechain
1	AA	2929	DA	Sidechain
1	AA	2930	DG	Sidechain
1	AA	2957	DG	Sidechain
1	AA	2959	DG	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	2963	DG	Sidechain
1	AA	2965	DG	Sidechain
1	AA	2967	DT	Sidechain
1	AA	297	DG	Sidechain
1	AA	2972	DG	Sidechain
1	AA	2975	DG	Sidechain
1	AA	2981	DG	Sidechain
1	AA	2984	DG	Sidechain
1	AA	299	DG	Sidechain
1	AA	30	DG	Sidechain
1	AA	3002	DA	Sidechain
1	AA	3056	DG	Sidechain
1	AA	306	DG	Sidechain
1	AA	31	DG	Sidechain
1	AA	3123	DG	Sidechain
1	AA	3126	DG	Sidechain
1	AA	3136	DA	Sidechain
1	AA	3149	DT	Sidechain
1	AA	3250	DG	Sidechain
1	AA	3253	DG	Sidechain
1	AA	3276	DG	Sidechain
1	AA	3287	DT	Sidechain
1	AA	3292	DA	Sidechain
1	AA	3296	DA	Sidechain
1	AA	3309	DG	Sidechain
1	AA	3323	DT	Sidechain
1	AA	3357	DG	Sidechain
1	AA	3365	DG	Sidechain
1	AA	3372	DG	Sidechain
1	AA	3374	DT	Sidechain
1	AA	3400	DG	Sidechain
1	AA	3479	DG	Sidechain
1	AA	3513	DC	Sidechain
1	AA	3522	DG	Sidechain
1	AA	3537	DC	Sidechain
1	AA	3538	DT	Sidechain
1	AA	3565	DG	Sidechain
1	AA	3571	DG	Sidechain
1	AA	3581	DG	Sidechain
1	AA	3582	DG	Sidechain
1	AA	3585	DG	Sidechain
1	AA	360	DG	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	3608	DT	Sidechain
1	AA	3609	DG	Sidechain
1	AA	367	DG	Sidechain
1	AA	3674	DG	Sidechain
1	AA	3694	DG	Sidechain
1	AA	3696	DA	Sidechain
1	AA	3706	DA	Sidechain
1	AA	3735	DG	Sidechain
1	AA	3744	DG	Sidechain
1	AA	3795	DG	Sidechain
1	AA	3813	DG	Sidechain
1	AA	384	DG	Sidechain
1	AA	3843	DG	Sidechain
1	AA	3855	DG	Sidechain
1	AA	3879	DG	Sidechain
1	AA	3886	DG	Sidechain
1	AA	3888	DG	Sidechain
1	AA	3898	DG	Sidechain
1	AA	3900	DG	Sidechain
1	AA	3905	DT	Sidechain
1	AA	3921	DG	Sidechain
1	AA	3932	DG	Sidechain
1	AA	3942	DG	Sidechain
1	AA	3950	DG	Sidechain
1	AA	3959	DG	Sidechain
1	AA	3963	DG	Sidechain
1	AA	3993	DG	Sidechain
1	AA	3996	DG	Sidechain
1	AA	4001	DA	Sidechain
1	AA	4002	DG	Sidechain
1	AA	4011	DG	Sidechain
1	AA	4026	DG	Sidechain
1	AA	4032	DG	Sidechain
1	AA	4033	DG	Sidechain
1	AA	4035	DG	Sidechain
1	AA	4086	DG	Sidechain
1	AA	4089	DG	Sidechain
1	AA	4095	DG	Sidechain
1	AA	4096	DG	Sidechain
1	AA	4104	DG	Sidechain
1	AA	4143	DG	Sidechain
1	AA	4171	DG	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	420	DG	Sidechain
1	AA	4203	DG	Sidechain
1	AA	4218	DG	Sidechain
1	AA	4227	DG	Sidechain
1	AA	4231	DG	Sidechain
1	AA	4284	DG	Sidechain
1	AA	4287	DT	Sidechain
1	AA	4288	DT	Sidechain
1	AA	4290	DG	Sidechain
1	AA	4292	DG	Sidechain
1	AA	4336	DT	Sidechain
1	AA	4343	DC	Sidechain
1	AA	4349	DG	Sidechain
1	AA	4351	DG	Sidechain
1	AA	4358	DG	Sidechain
1	AA	4372	DG	Sidechain
1	AA	4381	DT	Sidechain
1	AA	4383	DT	Sidechain
1	AA	440	DG	Sidechain
1	AA	4404	DG	Sidechain
1	AA	4423	DG	Sidechain
1	AA	4430	DT	Sidechain
1	AA	4462	DG	Sidechain
1	AA	4478	DG	Sidechain
1	AA	448	DG	Sidechain
1	AA	4521	DA	Sidechain
1	AA	4523	DT	Sidechain
1	AA	4532	DG	Sidechain
1	AA	4536	DG	Sidechain
1	AA	454	DG	Sidechain
1	AA	4554	DG	Sidechain
1	AA	4568	DT	Sidechain
1	AA	4578	DT	Sidechain
1	AA	4582	DG	Sidechain
1	AA	4583	DG	Sidechain
1	AA	4584	DG	Sidechain
1	AA	4609	DT	Sidechain
1	AA	4628	DG	Sidechain
1	AA	472	DG	Sidechain
1	AA	473	DG	Sidechain
1	AA	4739	DA	Sidechain
1	AA	4758	DG	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	4788	DG	Sidechain
1	AA	4791	DG	Sidechain
1	AA	4803	DA	Sidechain
1	AA	4818	DG	Sidechain
1	AA	4850	DG	Sidechain
1	AA	4857	DG	Sidechain
1	AA	4879	DG	Sidechain
1	AA	4910	DG	Sidechain
1	AA	4926	DG	Sidechain
1	AA	4927	DG	Sidechain
1	AA	4952	DA	Sidechain
1	AA	4954	DA	Sidechain
1	AA	496	DG	Sidechain
1	AA	4960	DT	Sidechain
1	AA	4961	DG	Sidechain
1	AA	4965	DG	Sidechain
1	AA	4974	DG	Sidechain
1	AA	4977	DT	Sidechain
1	AA	4980	DG	Sidechain
1	AA	5034	DG	Sidechain
1	AA	506	DT	Sidechain
1	AA	5075	DT	Sidechain
1	AA	5088	DG	Sidechain
1	AA	509	DG	Sidechain
1	AA	5111	DG	Sidechain
1	AA	5127	DG	Sidechain
1	AA	5139	DG	Sidechain
1	AA	5158	DA	Sidechain
1	AA	5161	DG	Sidechain
1	AA	5216	DG	Sidechain
1	AA	5236	DT	Sidechain
1	AA	5244	DG	Sidechain
1	AA	5252	DT	Sidechain
1	AA	5256	DG	Sidechain
1	AA	5266	DT	Sidechain
1	AA	5287	DG	Sidechain
1	AA	529	DG	Sidechain
1	AA	5292	DT	Sidechain
1	AA	5295	DA	Sidechain
1	AA	5304	DA	Sidechain
1	AA	5328	DA	Sidechain
1	AA	5330	DA	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	5334	DG	Sidechain
1	AA	5344	DG	Sidechain
1	AA	5352	DG	Sidechain
1	AA	5361	DG	Sidechain
1	AA	537	DG	Sidechain
1	AA	5401	DA	Sidechain
1	AA	5467	DG	Sidechain
1	AA	547	DA	Sidechain
1	AA	5476	DG	Sidechain
1	AA	5479	DT	Sidechain
1	AA	5487	DG	Sidechain
1	AA	5488	DG	Sidechain
1	AA	549	DG	Sidechain
1	AA	5499	DG	Sidechain
1	AA	553	DG	Sidechain
1	AA	5534	DG	Sidechain
1	AA	5537	DG	Sidechain
1	AA	554	DG	Sidechain
1	AA	5550	DG	Sidechain
1	AA	5578	DT	Sidechain
1	AA	5611	DG	Sidechain
1	AA	5627	DC	Sidechain
1	AA	5631	DG	Sidechain
1	AA	5658	DG	Sidechain
1	AA	5674	DA	Sidechain
1	AA	5691	DT	Sidechain
1	AA	5697	DG	Sidechain
1	AA	5704	DG	Sidechain
1	AA	5706	DA	Sidechain
1	AA	5711	DT	Sidechain
1	AA	5727	DA	Sidechain
1	AA	5730	DT	Sidechain
1	AA	5736	DG	Sidechain
1	AA	5776	DG	Sidechain
1	AA	581	DG	Sidechain
1	AA	5811	DG	Sidechain
1	AA	5820	DG	Sidechain
1	AA	5853	DG	Sidechain
1	AA	5869	DG	Sidechain
1	AA	587	DG	Sidechain
1	AA	5889	DA	Sidechain
1	AA	5893	DG	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	5898	DT	Sidechain
1	AA	5899	DG	Sidechain
1	AA	5917	DG	Sidechain
1	AA	592	DC	Sidechain
1	AA	5954	DC	Sidechain
1	AA	5958	DT	Sidechain
1	AA	5962	DC	Sidechain
1	AA	5967	DA	Sidechain
1	AA	5970	DT	Sidechain
1	AA	5977	DG	Sidechain
1	AA	5979	DT	Sidechain
1	AA	5998	DT	Sidechain
1	AA	6	DG	Sidechain
1	AA	6009	DG	Sidechain
1	AA	6082	DT	Sidechain
1	AA	6085	DG	Sidechain
1	AA	6097	DG	Sidechain
1	AA	6103	DT	Sidechain
1	AA	6133	DA	Sidechain
1	AA	6164	DA	Sidechain
1	AA	6175	DG	Sidechain
1	AA	6195	DG	Sidechain
1	AA	623	DG	Sidechain
1	AA	6235	DG	Sidechain
1	AA	6250	DG	Sidechain
1	AA	6259	DG	Sidechain
1	AA	63	DC	Sidechain
1	AA	6300	DA	Sidechain
1	AA	6330	DG	Sidechain
1	AA	6334	DG	Sidechain
1	AA	6349	DG	Sidechain
1	AA	6352	DG	Sidechain
1	AA	6362	DG	Sidechain
1	AA	6364	DG	Sidechain
1	AA	6385	DG	Sidechain
1	AA	6416	DG	Sidechain
1	AA	6418	DG	Sidechain
1	AA	6451	DT	Sidechain
1	AA	6460	DG	Sidechain
1	AA	6509	DG	Sidechain
1	AA	6519	DG	Sidechain
1	AA	6527	DG	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	6547	DG	Sidechain
1	AA	6575	DA	Sidechain
1	AA	659	DG	Sidechain
1	AA	6600	DG	Sidechain
1	AA	6666	DG	Sidechain
1	AA	6670	DG	Sidechain
1	AA	6682	DG	Sidechain
1	AA	6685	DG	Sidechain
1	AA	6696	DG	Sidechain
1	AA	6700	DG	Sidechain
1	AA	6711	DT	Sidechain
1	AA	6712	DG	Sidechain
1	AA	6720	DT	Sidechain
1	AA	6733	DG	Sidechain
1	AA	6739	DG	Sidechain
1	AA	6767	DG	Sidechain
1	AA	6787	DG	Sidechain
1	AA	6790	DG	Sidechain
1	AA	6806	DG	Sidechain
1	AA	6809	DG	Sidechain
1	AA	6814	DG	Sidechain
1	AA	6838	DG	Sidechain
1	AA	6859	DG	Sidechain
1	AA	6860	DG	Sidechain
1	AA	6898	DG	Sidechain
1	AA	6909	DG	Sidechain
1	AA	691	DG	Sidechain
1	AA	6964	DG	Sidechain
1	AA	6972	DG	Sidechain
1	AA	700	DG	Sidechain
1	AA	7000	DG	Sidechain
1	AA	7002	DA	Sidechain
1	AA	7017	DG	Sidechain
1	AA	7026	DG	Sidechain
1	AA	7033	DG	Sidechain
1	AA	7042	DG	Sidechain
1	AA	707	DG	Sidechain
1	AA	7070	DG	Sidechain
1	AA	7074	DG	Sidechain
1	AA	7076	DG	Sidechain
1	AA	7124	DT	Sidechain
1	AA	714	DG	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	7145	DG	Sidechain
1	AA	7159	DG	Sidechain
1	AA	7170	DG	Sidechain
1	AA	7171	DG	Sidechain
1	AA	719	DG	Sidechain
1	AA	7202	DC	Sidechain
1	AA	7227	DG	Sidechain
1	AA	723	DG	Sidechain
1	AA	7234	DT	Sidechain
1	AA	724	DG	Sidechain
1	AA	730	DG	Sidechain
1	AA	731	DG	Sidechain
1	AA	740	DG	Sidechain
1	AA	753	DG	Sidechain
1	AA	763	DG	Sidechain
1	AA	765	DG	Sidechain
1	AA	778	DG	Sidechain
1	AA	779	DG	Sidechain
1	AA	800	DT	Sidechain
1	AA	842	DA	Sidechain
1	AA	847	DG	Sidechain
1	AA	895	DG	Sidechain
1	AA	903	DG	Sidechain
1	AA	910	DG	Sidechain
1	AA	933	DG	Sidechain
1	AA	943	DG	Sidechain
1	AA	944	DG	Sidechain
1	AA	971	DG	Sidechain
1	AA	994	DG	Sidechain
11	AB	30	DG	Sidechain
12	AC	19	DG	Sidechain
12	AC	2	DA	Sidechain
12	AC	23	DG	Sidechain
13	AD	10	DG	Sidechain
13	AD	44	DG	Sidechain
15	AF	10	DC	Sidechain
15	AF	30	DG	Sidechain
15	AF	38	DG	Sidechain
15	AF	47	DG	Sidechain
16	AG	23	DG	Sidechain
16	AG	26	DG	Sidechain
16	AG	8	DG	Sidechain

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Mol	Chain	Res	Type	Group
17	AH	27	DG	Sidechain
17	AH	28	DG	Sidechain
18	AI	18	DT	Sidechain
18	AI	35	DA	Sidechain
19	AJ	15	DA	Sidechain
19	AJ	16	DA	Sidechain
19	AJ	26	DG	Sidechain
19	AJ	48	DG	Sidechain
20	AK	18	DG	Sidechain
20	AK	19	DG	Sidechain
20	AK	24	DT	Sidechain
20	AK	26	DT	Sidechain
20	AK	34	DA	Sidechain
20	AK	49	DG	Sidechain
20	AK	50	DG	Sidechain
20	AK	60	DG	Sidechain
21	AL	22	DA	Sidechain
21	AL	27	DA	Sidechain
21	AL	32	DA	Sidechain
21	AL	45	DG	Sidechain
22	AM	45	DA	Sidechain
23	AN	14	DG	Sidechain
23	AN	39	DG	Sidechain
23	AN	44	DG	Sidechain
24	AO	45	DG	Sidechain
24	AO	46	DT	Sidechain
24	AO	47	DG	Sidechain
25	AP	29	DG	Sidechain
26	AQ	21	DC	Sidechain
26	AQ	38	DG	Sidechain
26	AQ	46	DG	Sidechain
26	AQ	47	DG	Sidechain
26	AQ	54	DA	Sidechain
26	AQ	56	DC	Sidechain
27	AR	52	DG	Sidechain
27	AR	58	DG	Sidechain
28	AS	34	DA	Sidechain
28	AS	43	DG	Sidechain
28	AS	6	DC	Sidechain
28	AS	8	DA	Sidechain
29	AT	25	DG	Sidechain
29	AT	36	DG	Sidechain

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Mol	Chain	Res	Type	Group
29	AT	37	DG	Sidechain
29	AT	42	DG	Sidechain
30	AU	18	DA	Sidechain
30	AU	26	DG	Sidechain
30	AU	34	DT	Sidechain
30	AU	42	DG	Sidechain
31	AV	10	DG	Sidechain
31	AV	25	DA	Sidechain
31	AV	34	DA	Sidechain
31	AV	48	DA	Sidechain
31	AV	52	DA	Sidechain
33	AX	16	DA	Sidechain
33	AX	33	DT	Sidechain
33	AX	7	DT	Sidechain
34	AY	13	DA	Sidechain
34	AY	14	DG	Sidechain
34	AY	5	DG	Sidechain
34	AY	7	DG	Sidechain
35	AZ	3	DG	Sidechain
35	AZ	35	DA	Sidechain
35	AZ	36	DG	Sidechain
35	AZ	8	DG	Sidechain
36	Ab	25	DG	Sidechain
36	Ab	3	DC	Sidechain
37	Ac	6	DA	Sidechain
37	Ac	63	DG	Sidechain
38	Ad	13	DC	Sidechain
38	Ad	6	DT	Sidechain
39	Af	18	DC	Sidechain
40	Ag	18	DG	Sidechain
41	Ah	14	DG	Sidechain
41	Ah	22	DG	Sidechain
41	Ah	30	DC	Sidechain
42	Ai	46	DG	Sidechain
43	Aj	14	DA	Sidechain
43	Aj	15	DA	Sidechain
43	Aj	20	DA	Sidechain
43	Aj	38	DA	Sidechain
43	Aj	62	DG	Sidechain
44	Ak	12	DA	Sidechain
44	Ak	15	DG	Sidechain
44	Ak	23	DG	Sidechain

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Mol	Chain	Res	Type	Group
44	Ak	30	DA	Sidechain
44	Ak	46	DA	Sidechain
44	Ak	6	DA	Sidechain
44	Ak	7	DG	Sidechain
45	Al	18	DA	Sidechain
45	Al	33	DA	Sidechain
45	Al	37	DG	Sidechain
45	Al	5	DC	Sidechain
46	Am	27	DG	Sidechain
46	Am	38	DT	Sidechain
47	An	17	DG	Sidechain
47	An	26	DG	Sidechain
47	An	30	DG	Sidechain
47	An	32	DG	Sidechain
48	Ao	3	DG	Sidechain
48	Ao	34	DT	Sidechain
49	As	10	DG	Sidechain
49	As	21	DT	Sidechain
49	As	26	DA	Sidechain
51	Av	14	DA	Sidechain
51	Av	29	DG	Sidechain
51	Av	30	DG	Sidechain
51	Av	34	DG	Sidechain
51	Av	4	DG	Sidechain
51	Av	41	DG	Sidechain
52	Aw	1	DG	Sidechain
52	Aw	45	DG	Sidechain
53	Ax	2	DG	Sidechain
53	Ax	30	DG	Sidechain
54	Ay	14	DA	Sidechain
55	Az	11	DG	Sidechain
55	Az	37	DG	Sidechain
55	Az	4	DG	Sidechain
56	B0	15	DG	Sidechain
56	B0	26	DA	Sidechain
56	B0	39	DG	Sidechain
56	B0	41	DA	Sidechain
56	B0	42	DA	Sidechain
56	B0	9	DG	Sidechain
57	B1	53	DG	Sidechain
58	B2	10	DG	Sidechain
58	B2	6	DA	Sidechain

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Mol	Chain	Res	Type	Group
59	B3	11	DG	Sidechain
60	B4	10	DA	Sidechain
60	B4	11	DG	Sidechain
60	B4	13	DG	Sidechain
60	B4	14	DG	Sidechain
60	B4	36	DA	Sidechain
61	B5	30	DG	Sidechain
61	B5	6	DT	Sidechain
62	B6	18	DG	Sidechain
62	B6	30	DG	Sidechain
62	B6	36	DA	Sidechain
62	B6	39	DT	Sidechain
62	B6	7	DG	Sidechain
63	B7	14	DG	Sidechain
63	B7	21	DG	Sidechain
63	B7	23	DG	Sidechain
63	B7	26	DA	Sidechain
63	B7	44	DT	Sidechain
65	B9	17	DG	Sidechain
65	B9	43	DT	Sidechain
65	B9	49	DG	Sidechain
66	BB	24	DG	Sidechain
66	BB	36	DG	Sidechain
66	BB	46	DT	Sidechain
67	BC	23	DG	Sidechain
68	BD	17	DG	Sidechain
68	BD	26	DG	Sidechain
68	BD	33	DA	Sidechain
68	BD	35	DG	Sidechain
69	BE	28	DG	Sidechain
69	BE	49	DA	Sidechain
69	BE	53	DG	Sidechain
70	BF	14	DA	Sidechain
70	BF	23	DT	Sidechain
71	BG	11	DG	Sidechain
71	BG	18	DA	Sidechain
71	BG	2	DA	Sidechain
71	BG	20	DT	Sidechain
71	BG	33	DC	Sidechain
71	BG	40	DG	Sidechain
71	BG	7	DA	Sidechain
72	BH	20	DG	Sidechain

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Mol	Chain	Res	Type	Group
72	BH	28	DG	Sidechain
73	BI	17	DT	Sidechain
73	BI	9	DA	Sidechain
74	BJ	21	DG	Sidechain
74	BJ	37	DG	Sidechain
75	BK	22	DA	Sidechain
76	BL	25	DG	Sidechain
76	BL	29	DA	Sidechain
76	BL	44	DA	Sidechain
76	BL	45	DG	Sidechain
76	BL	46	DC	Sidechain
77	BM	3	DT	Sidechain
78	BN	51	DG	Sidechain
79	BO	1	DA	Sidechain
79	BO	10	DG	Sidechain
79	BO	44	DT	Sidechain
79	BO	7	DG	Sidechain
79	BO	8	DC	Sidechain
79	BO	9	DG	Sidechain
80	BP	13	DG	Sidechain
80	BP	45	DG	Sidechain
81	BQ	18	DG	Sidechain
81	BQ	41	DG	Sidechain
82	BR	12	DT	Sidechain
82	BR	21	DG	Sidechain
82	BR	42	DG	Sidechain
83	BS	17	DT	Sidechain
83	BS	30	DG	Sidechain
83	BS	35	DG	Sidechain
83	BS	39	DG	Sidechain
83	BS	47	DC	Sidechain
84	BT	19	DG	Sidechain
84	BT	43	DG	Sidechain
84	BT	46	DG	Sidechain
85	BU	45	DG	Sidechain
86	BV	36	DG	Sidechain
87	BW	11	DG	Sidechain
87	BW	25	DG	Sidechain
87	BW	6	DG	Sidechain
88	BX	10	DG	Sidechain
88	BX	14	DG	Sidechain
88	BX	27	DG	Sidechain

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Mol	Chain	Res	Type	Group
88	BX	30	DA	Sidechain
88	BX	37	DA	Sidechain
88	BX	40	DA	Sidechain
88	BX	48	DG	Sidechain
89	BY	37	DA	Sidechain
89	BY	45	DG	Sidechain
90	BZ	11	DG	Sidechain
91	Ba	30	DG	Sidechain
91	Ba	32	DT	Sidechain
91	Ba	45	DC	Sidechain
92	Bb	20	DG	Sidechain
92	Bb	46	DT	Sidechain
93	Bc	25	DG	Sidechain
93	Bc	41	DG	Sidechain
93	Bc	47	DG	Sidechain
93	Bc	49	DT	Sidechain
96	Bf	13	DG	Sidechain
96	Bf	17	DA	Sidechain
96	Bf	21	DG	Sidechain
96	Bf	33	DG	Sidechain
97	Bg	35	DC	Sidechain
98	Bh	34	DG	Sidechain
98	Bh	38	DG	Sidechain
99	Bi	14	DG	Sidechain
99	Bi	24	DG	Sidechain
99	Bi	45	DG	Sidechain
100	Bj	34	DA	Sidechain
101	Bk	33	DG	Sidechain
101	Bk	39	DG	Sidechain
101	Bk	43	DG	Sidechain
101	Bk	9	DG	Sidechain
102	Bl	25	DG	Sidechain
102	Bl	40	DG	Sidechain
102	Bl	42	DG	Sidechain
103	Bm	25	DA	Sidechain
103	Bm	29	DG	Sidechain
103	Bm	33	DG	Sidechain
104	Bn	24	DG	Sidechain
104	Bn	25	DA	Sidechain
104	Bn	46	DT	Sidechain
104	Bn	50	DG	Sidechain
104	Bn	52	DG	Sidechain

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Mol	Chain	Res	Type	Group
105	Bo	26	DG	Sidechain
105	Bo	27	DA	Sidechain
105	Bo	62	DC	Sidechain
105	Bo	64	DA	Sidechain
105	Bo	8	DG	Sidechain
106	Bp	26	DT	Sidechain
106	Bp	29	DT	Sidechain
106	Bp	42	DG	Sidechain
106	Bp	45	DA	Sidechain
106	Bp	46	DG	Sidechain
106	Bp	47	DG	Sidechain
106	Bp	8	DG	Sidechain
107	Bq	26	DA	Sidechain
107	Bq	3	DG	Sidechain
107	Bq	55	DA	Sidechain
108	Br	39	DA	Sidechain
109	Bs	42	DG	Sidechain
111	C1	14	DG	Sidechain
112	C2	31	DA	Sidechain
112	C2	46	DG	Sidechain
113	C3	15	DG	Sidechain
113	C3	21	DG	Sidechain
113	C3	27	DA	Sidechain
113	C3	42	DG	Sidechain
114	C4	14	DG	Sidechain
114	C4	7	DG	Sidechain
115	C5	11	DG	Sidechain
115	C5	25	DG	Sidechain
115	C5	40	DT	Sidechain
116	C6	10	DA	Sidechain
116	C6	41	DG	Sidechain
116	C6	9	DG	Sidechain
117	C7	22	DT	Sidechain
117	C7	32	DG	Sidechain
117	C7	50	DG	Sidechain
117	C7	6	DA	Sidechain
118	C8	10	DG	Sidechain
118	C8	44	DG	Sidechain
118	C8	6	DG	Sidechain
119	CB	23	DG	Sidechain
119	CB	3	DG	Sidechain
119	CB	49	DG	Sidechain

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Mol	Chain	Res	Type	Group
120	CC	14	DG	Sidechain
120	CC	43	DG	Sidechain
120	CC	44	DA	Sidechain
121	CD	29	DG	Sidechain
121	CD	31	DG	Sidechain
121	CD	48	DA	Sidechain
122	CE	12	DA	Sidechain
122	CE	22	DG	Sidechain
123	CF	24	DT	Sidechain
123	CF	40	DA	Sidechain
124	CG	1	DG	Sidechain
124	CG	10	DG	Sidechain
124	CG	22	DG	Sidechain
124	CG	39	DG	Sidechain
125	CH	19	DG	Sidechain
125	CH	22	DG	Sidechain
125	CH	3	DG	Sidechain
125	CH	43	DG	Sidechain
126	CI	13	DA	Sidechain
126	CI	22	DG	Sidechain
126	CI	26	DG	Sidechain
126	CI	34	DG	Sidechain
127	CJ	19	DT	Sidechain
127	CJ	33	DA	Sidechain
127	CJ	40	DA	Sidechain
127	CJ	46	DG	Sidechain
127	CJ	57	DA	Sidechain
128	CK	13	DG	Sidechain
128	CK	18	DG	Sidechain
128	CK	20	DT	Sidechain
128	CK	23	DT	Sidechain
128	CK	38	DG	Sidechain
129	CL	18	DT	Sidechain
129	CL	24	DG	Sidechain
129	CL	32	DA	Sidechain
129	CL	35	DG	Sidechain
129	CL	4	DG	Sidechain
131	CN	33	DG	Sidechain
132	CO	13	DG	Sidechain
132	CO	14	DG	Sidechain
132	CO	18	DG	Sidechain
132	CO	29	DA	Sidechain

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Mol	Chain	Res	Type	Group
132	CO	44	DG	Sidechain
132	CO	46	DG	Sidechain
132	CO	6	DG	Sidechain
133	CP	20	DT	Sidechain
133	CP	23	DG	Sidechain
133	CP	52	DA	Sidechain
133	CP	56	DG	Sidechain
133	CP	7	DG	Sidechain
134	CQ	33	DC	Sidechain
136	CS	16	DG	Sidechain
136	CS	17	DG	Sidechain
136	CS	30	DT	Sidechain
136	CS	35	DG	Sidechain
137	CT	2	DT	Sidechain
137	CT	23	DT	Sidechain
137	CT	34	DG	Sidechain
137	CT	35	DG	Sidechain
137	CT	42	DG	Sidechain
138	CU	11	DG	Sidechain
139	CV	16	DG	Sidechain
139	CV	31	DG	Sidechain
139	CV	50	DG	Sidechain
140	CW	31	DT	Sidechain
140	CW	35	DG	Sidechain
141	CX	28	DG	Sidechain
141	CX	30	DT	Sidechain
141	CX	5	DG	Sidechain
143	CZ	11	DG	Sidechain
143	CZ	31	DG	Sidechain
143	CZ	36	DG	Sidechain
143	CZ	9	DA	Sidechain
144	Cb	10	DG	Sidechain
144	Cb	13	DG	Sidechain
145	Cc	1	DA	Sidechain
145	Cc	20	DG	Sidechain
145	Cc	51	DG	Sidechain
145	Cc	56	DT	Sidechain
145	Cc	62	DG	Sidechain
146	Cd	18	DA	Sidechain
146	Cd	22	DG	Sidechain
146	Cd	38	DG	Sidechain
147	Ce	4	DA	Sidechain

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Mol	Chain	Res	Type	Group
147	Ce	45	DG	Sidechain
147	Ce	5	DG	Sidechain
147	Ce	7	DG	Sidechain
148	Cf	46	DG	Sidechain
149	Cg	2	DA	Sidechain
149	Cg	32	DG	Sidechain
149	Cg	40	DA	Sidechain
149	Cg	8	DG	Sidechain
150	Ch	10	DA	Sidechain
150	Ch	30	DG	Sidechain
152	Cp	19	DG	Sidechain
152	Cp	24	DA	Sidechain
152	Cp	48	DG	Sidechain
153	Cq	11	DG	Sidechain
153	Cq	27	DG	Sidechain
153	Cq	32	DA	Sidechain
153	Cq	38	DC	Sidechain
153	Cq	6	DG	Sidechain
154	Cr	33	DG	Sidechain
154	Cr	7	DG	Sidechain
155	Cs	13	DG	Sidechain
155	Cs	15	DG	Sidechain
155	Cs	22	DT	Sidechain
155	Cs	24	DG	Sidechain
155	Cs	36	DG	Sidechain
155	Cs	47	DG	Sidechain
155	Cs	6	DA	Sidechain
155	Cs	7	DG	Sidechain
157	Cu	46	DG	Sidechain
157	Cu	49	DG	Sidechain
158	Cv	22	DG	Sidechain
158	Cv	32	DA	Sidechain
158	Cv	8	DG	Sidechain
159	Cw	12	DG	Sidechain
159	Cw	16	DG	Sidechain
159	Cw	5	DG	Sidechain
159	Cw	50	DG	Sidechain
159	Cw	7	DG	Sidechain
160	Cx	11	DG	Sidechain
160	Cx	32	DG	Sidechain
160	Cx	34	DG	Sidechain
160	Cx	45	DA	Sidechain

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Mol	Chain	Res	Type	Group
161	Cy	63	DG	Sidechain
161	Cy	7	DG	Sidechain
162	Cz	12	DG	Sidechain
162	Cz	20	DG	Sidechain
162	Cz	21	DG	Sidechain
162	Cz	22	DC	Sidechain
162	Cz	29	DT	Sidechain
162	Cz	4	DA	Sidechain

5.2 Too-close contacts

Due to software issues we are unable to calculate clashes - this section is therefore empty.

5.3 Torsion angles

5.3.1 Protein backbone

There are no protein molecules in this entry.

5.3.2 Protein sidechains

There are no protein molecules in this entry.

5.3.3 RNA

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates

There are no monosaccharides in this entry.

5.6 Ligand geometry

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
1	AA	23
15	AF	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AA	2465:DT	O3'	2466:DT	P	5.78
1	AA	6158:DC	O3'	6159:DA	P	3.30
1	AA	62:DT	O3'	63:DC	P	3.28
1	AA	590:DA	O3'	591:DA	P	3.28
1	AA	4430:DT	O3'	4431:DT	P	3.28
1	AA	143:DC	O3'	144:DA	P	3.21
1	AF	26:DA	O3'	27:DT	P	2.23
1	AA	3896:DT	O3'	3897:DG	P	2.22
1	AA	89:DT	O3'	90:DC	P	2.21
1	AA	4125:DG	O3'	4126:DC	P	2.10
1	AA	955:DG	O3'	956:DC	P	2.07
1	AA	3768:DT	O3'	3769:DC	P	1.99
1	AA	1506:DA	O3'	1507:DT	P	1.95
1	AA	1346:DT	O3'	1347:DA	P	1.93
1	AA	35:DC	O3'	36:DC	P	1.86
1	AA	2524:DA	O3'	2525:DT	P	1.82
1	AA	501:DC	O3'	502:DG	P	1.81
1	AA	511:DA	O3'	512:DC	P	1.34
1	AA	1084:DG	O3'	1085:DG	P	1.30
1	AA	4536:DG	O3'	4537:DT	P	1.29
1	AA	1618:DG	O3'	1619:DG	P	1.24
1	AA	186:DT	O3'	187:DT	P	0.99
1	AA	437:DT	O3'	438:DG	P	0.95
1	AA	3933:DA	O3'	3934:DT	P	0.67

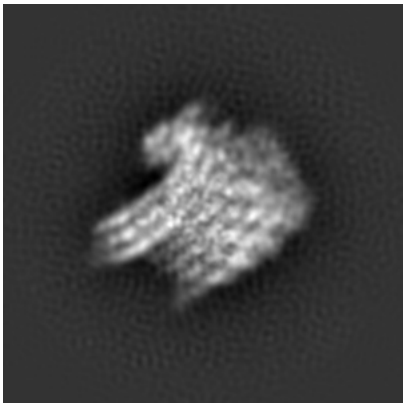
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-2210. These allow visual inspection of the internal detail of the map and identification of artifacts.

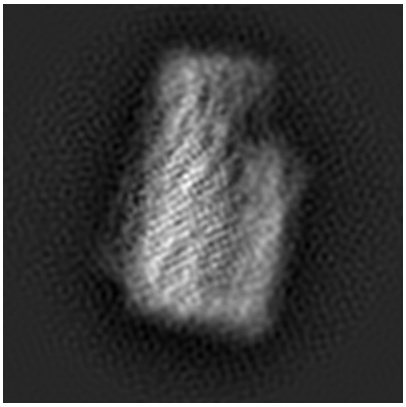
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

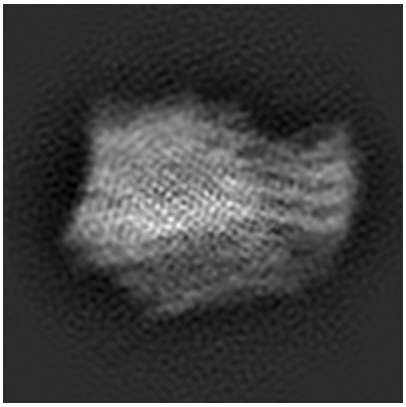
6.1.1 Primary map



X



Y

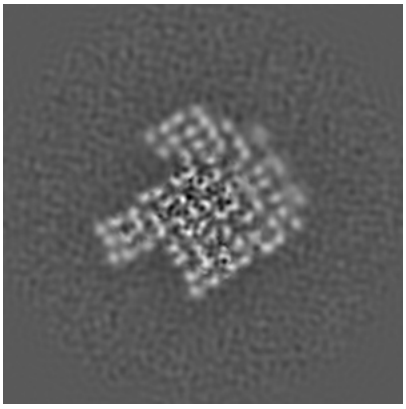


Z

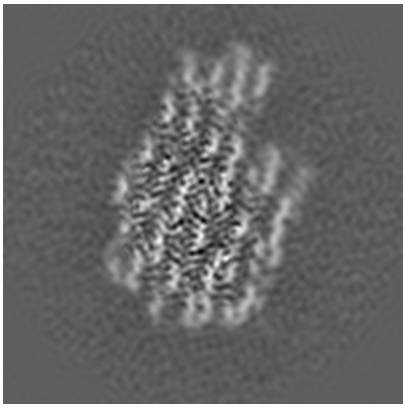
The images above show the map projected in three orthogonal directions.

6.2 Central slices

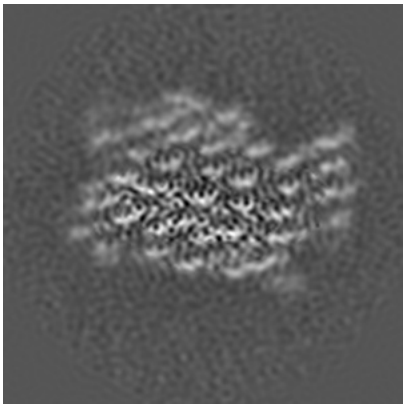
6.2.1 Primary map



X Index: 86



Y Index: 86

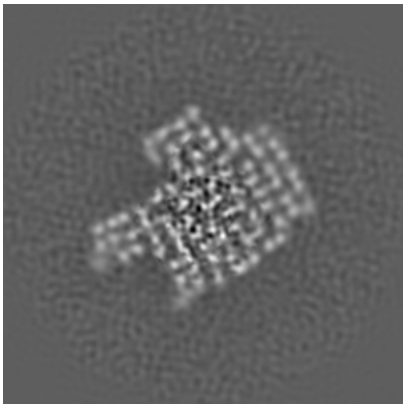


Z Index: 86

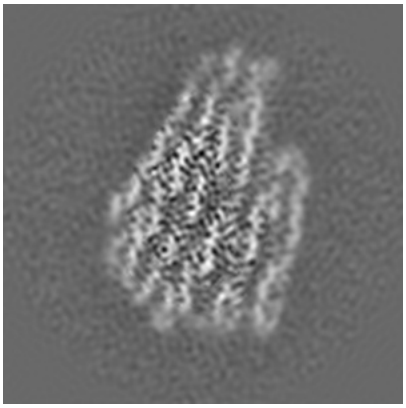
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

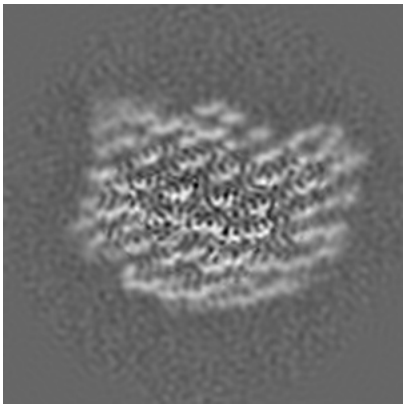
6.3.1 Primary map



X Index: 71



Y Index: 82

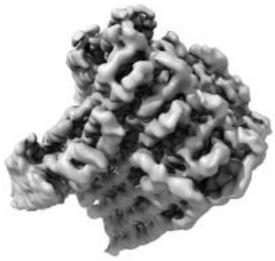


Z Index: 78

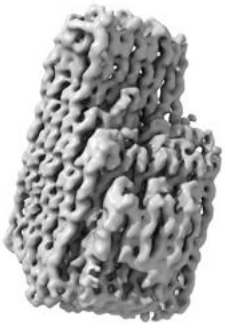
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal surface views (i)

6.4.1 Primary map



X



Y

Z

The images above show the 3D surface view of the map at the recommended contour level 0.1. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

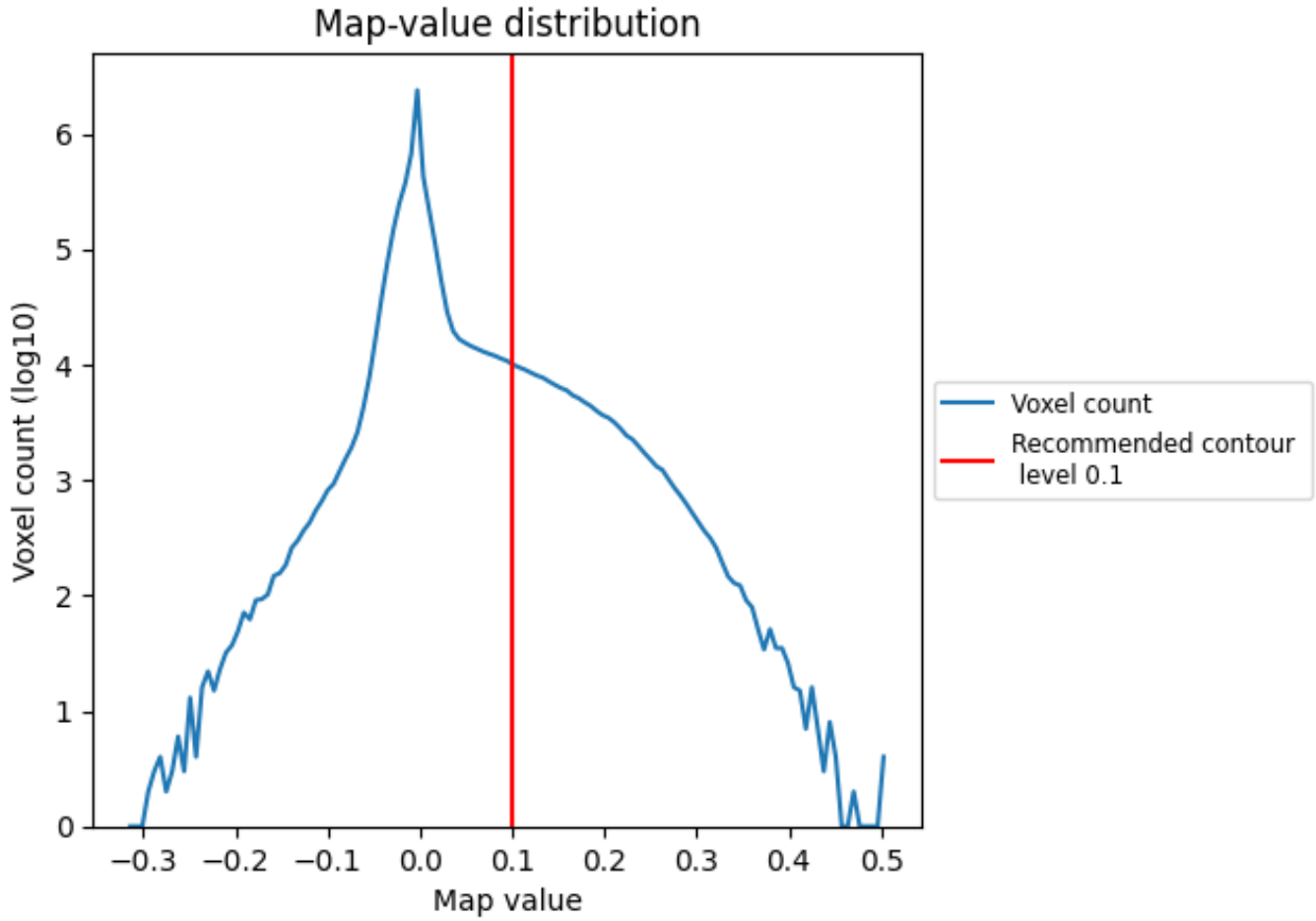
6.5 Mask visualisation (i)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis

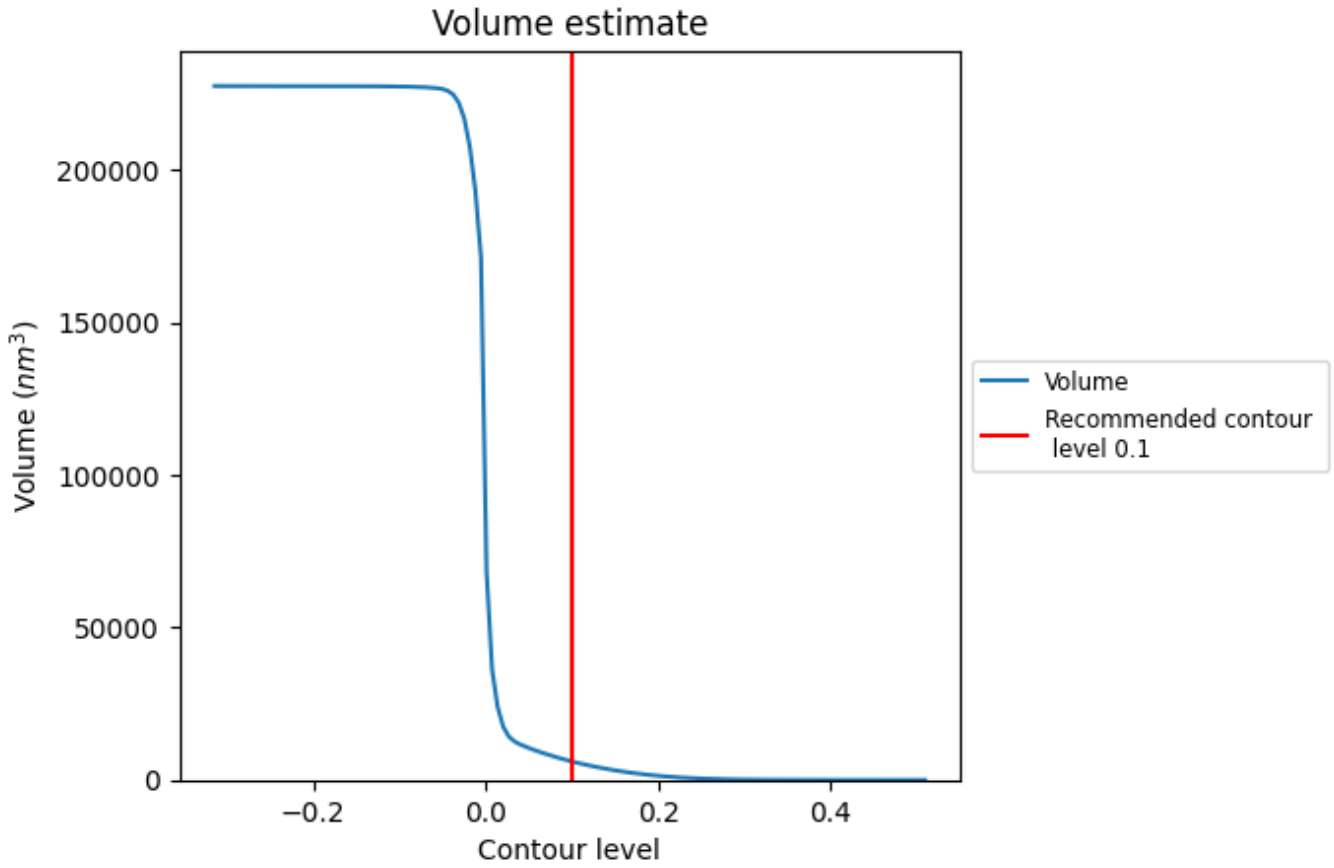
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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.

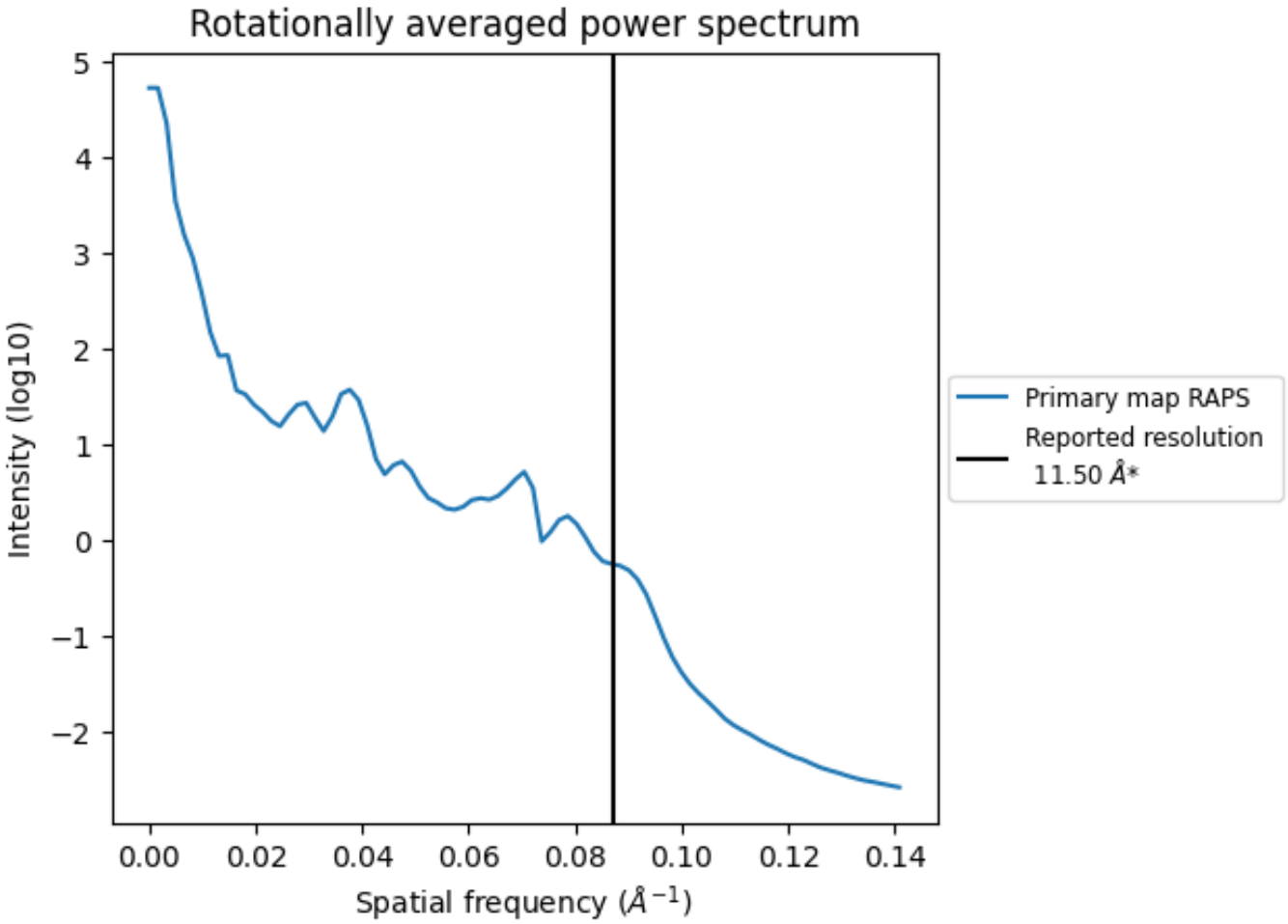
7.2 Volume estimate



The volume at the recommended contour level is 6064 nm^3; this corresponds to an approximate mass of 5477 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 0.087 Å^{-1}

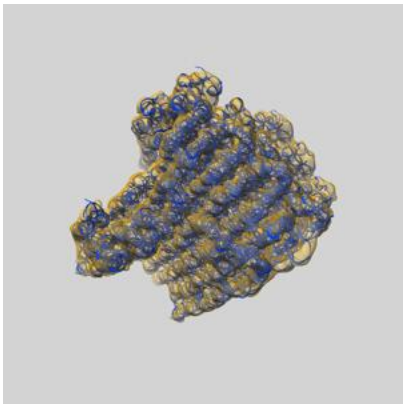
8 Fourier-Shell correlation (i)

This section was not generated. No FSC curve or half-maps provided.

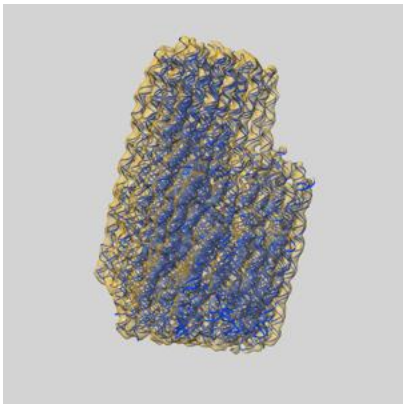
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-2210 and PDB model 4V5X. Per-residue inclusion information can be found in section 3 on page 33.

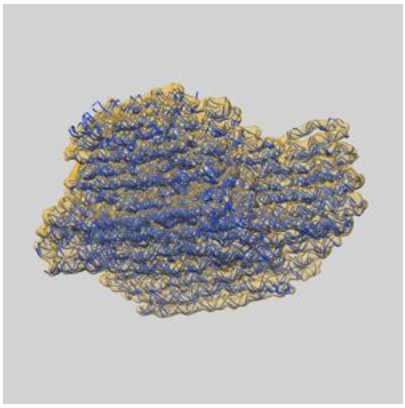
9.1 Map-model overlay



X



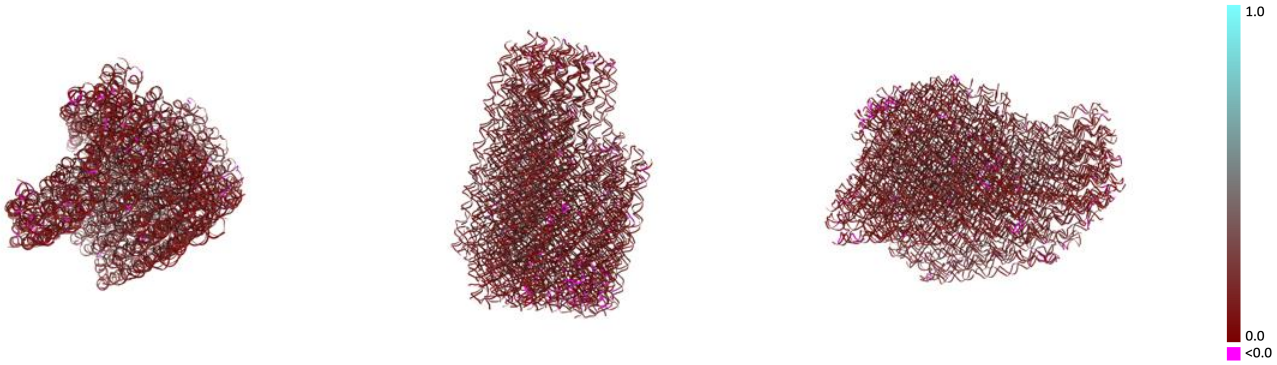
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.1 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.

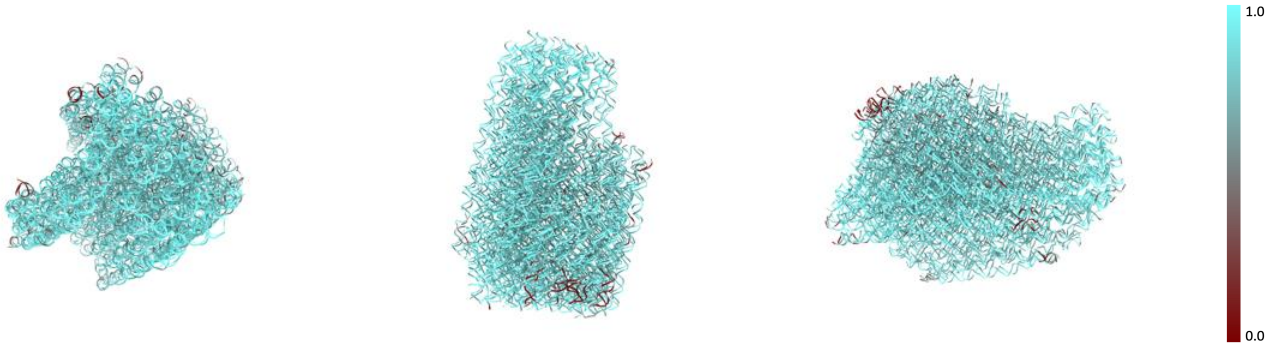
9.2 Q-score mapped to coordinate model (i)



X Y Z

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.

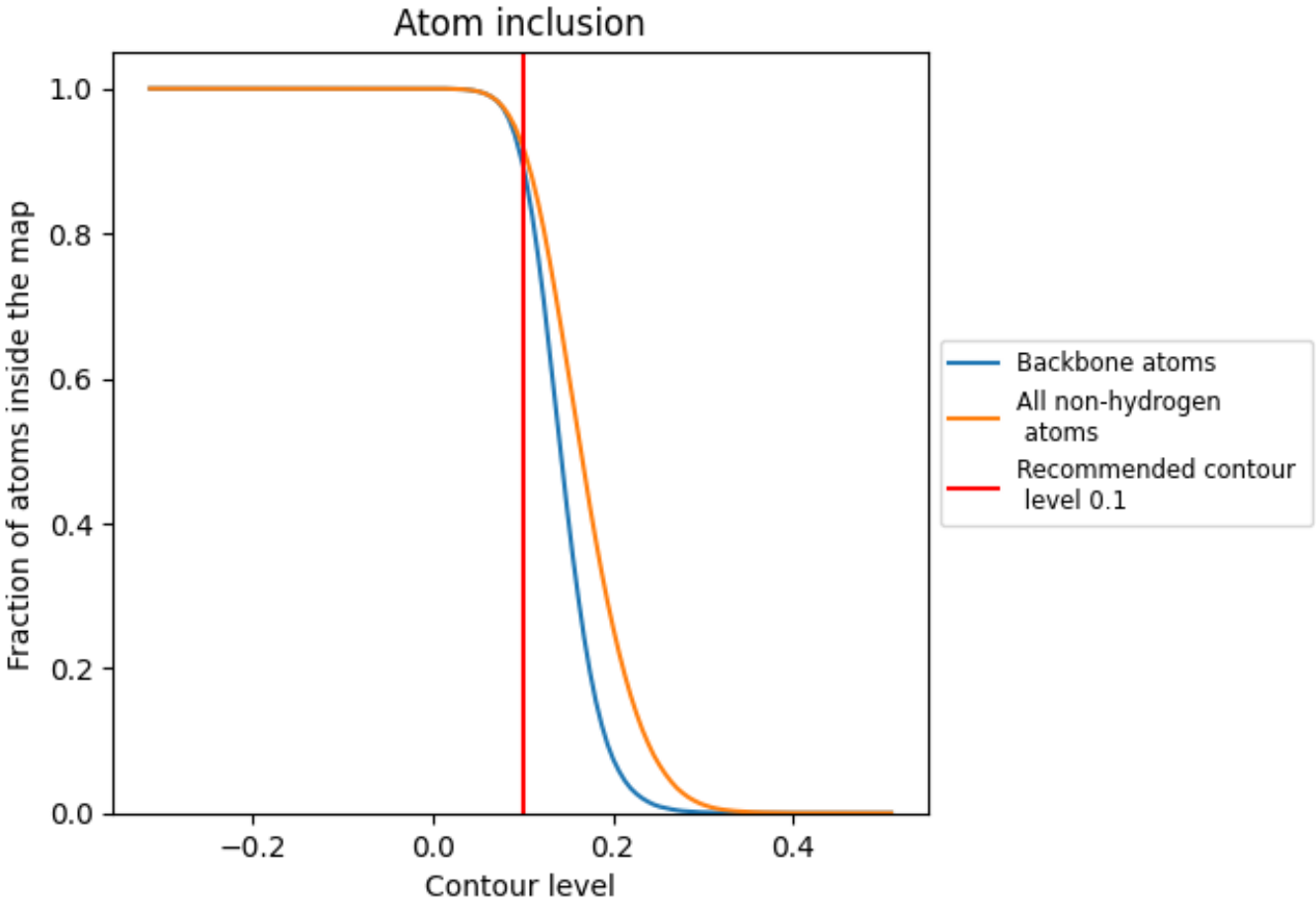
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

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 (0.1).

9.4 Atom inclusion (i)



At the recommended contour level, 89% of all backbone atoms, 92% 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 (0.1) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9200	0.1390
A0	0.9749	0.1650
A1	0.9729	0.1160
A2	0.9500	0.1680
A3	0.9812	0.1910
A4	0.9167	0.1090
A5	0.9784	0.1690
A6	0.9754	0.1390
A7	0.9571	0.1600
A8	0.9529	0.1710
AA	0.9191	0.1390
AB	0.9249	0.1300
AC	0.9849	0.1360
AD	0.9538	0.1260
AE	0.7834	0.1020
AF	0.9587	0.1230
AG	0.9606	0.1300
AH	0.9637	0.1260
AI	0.9607	0.1770
AJ	0.9651	0.1350
AK	0.9825	0.1950
AL	0.8991	0.1240
AM	0.9678	0.1610
AN	0.9649	0.1490
AO	0.9595	0.1310
AP	0.9813	0.1650
AQ	0.9629	0.1460
AR	0.8964	0.0980
AS	0.9685	0.1320
AT	0.9548	0.1490
AU	0.9700	0.1810
AV	0.9743	0.1680
AW	0.6690	0.0820
AX	0.9781	0.1860
AY	0.6636	0.1140

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Chain	Atom inclusion	Q-score
AZ	0.9510	0.1310
Ab	0.9746	0.1520
Ac	0.9471	0.1410
Ad	0.9530	0.1720
Af	0.9616	0.1480
Ag	0.9622	0.1400
Ah	0.9472	0.1490
Ai	0.9335	0.1140
Aj	0.9610	0.1830
Ak	0.9556	0.1720
Al	0.9315	0.1720
Am	0.9325	0.1580
An	0.9537	0.1620
Ao	0.9489	0.1940
As	0.9701	0.1700
Au	0.9896	0.1540
Av	0.9655	0.1540
Aw	0.9563	0.1800
Ax	0.9412	0.1190
Ay	0.7588	0.0960
Az	0.9308	0.1090
B0	0.9427	0.1420
B1	0.9522	0.1370
B2	0.9441	0.1720
B3	0.9477	0.1590
B4	0.8389	0.1140
B5	0.8946	0.1190
B6	0.9214	0.1270
B7	0.9496	0.1290
B8	0.8652	0.1230
B9	0.9012	0.1080
BB	0.9633	0.1340
BC	0.9624	0.1410
BD	0.9532	0.1370
BE	0.8994	0.1040
BF	0.9494	0.1520
BG	0.9364	0.1280
BH	0.7640	0.1060
BI	0.9210	0.1220
BJ	0.9201	0.1400
BK	0.9508	0.1780
BL	0.9420	0.1700

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Chain	Atom inclusion	Q-score
BM	0.9591	0.1590
BN	0.9175	0.1100
BO	0.9472	0.1490
BP	0.9369	0.1130
BQ	0.9526	0.1370
BR	0.8608	0.1210
BS	0.9452	0.1840
BT	0.9389	0.1130
BU	0.9311	0.1250
BV	0.9151	0.0910
BW	0.7952	0.1120
BX	0.9576	0.1220
BY	0.9506	0.1340
BZ	0.8977	0.1250
Ba	0.9012	0.1480
Bb	0.7875	0.1130
Bc	0.8591	0.1350
Bd	0.9151	0.1250
Be	0.8793	0.1320
Bf	0.9399	0.1310
Bg	0.8421	0.1060
Bh	0.9005	0.1280
Bi	0.7514	0.0910
Bj	0.9603	0.1380
Bk	0.8797	0.1160
Bl	0.8580	0.1270
Bm	0.9232	0.1150
Bn	0.7087	0.1140
Bo	0.6551	0.0850
Bp	0.8619	0.1140
Bq	0.8890	0.1020
Br	0.8374	0.1200
Bs	0.3912	0.0700
C0	0.7611	0.1340
C1	0.9399	0.1270
C2	0.9440	0.1860
C3	0.9688	0.1520
C4	0.8914	0.1190
C5	0.9529	0.1460
C6	0.8813	0.1630
C7	0.9413	0.1270
C8	0.9608	0.1770

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Chain	Atom inclusion	Q-score
CB	0.9494	0.1510
CC	0.9699	0.1600
CD	0.9675	0.1690
CE	0.9191	0.1720
CF	0.9346	0.1850
CG	0.9679	0.1290
CH	0.9574	0.1620
CI	0.9798	0.1260
CJ	0.9249	0.1290
CK	0.9501	0.2000
CL	0.9659	0.1410
CM	0.5356	0.0950
CN	0.7983	0.1110
CO	0.9487	0.1820
CP	0.9412	0.1300
CQ	0.9031	0.1200
CR	0.9598	0.1340
CS	0.9288	0.1260
CT	0.9532	0.1990
CU	0.9383	0.1320
CV	0.9719	0.1260
CW	0.9681	0.1130
CX	0.9417	0.1630
CY	0.9471	0.1500
CZ	0.8997	0.1370
Cb	0.9203	0.1760
Cc	0.9456	0.1060
Cd	0.9325	0.1100
Ce	0.9514	0.1410
Cf	0.8711	0.1170
Cg	0.9020	0.1130
Ch	0.9627	0.1550
Ck	0.8068	0.1020
Cp	0.9580	0.1620
Cq	0.9214	0.1390
Cr	0.9395	0.1120
Cs	0.9585	0.1400
Ct	0.9221	0.1240
Cu	0.9424	0.1600
Cv	0.9162	0.1130
Cw	0.9536	0.1240
Cx	0.9110	0.1090

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Chain	Atom inclusion	Q-score
Cy	0.9616	0.1480
Cz	0.9412	0.1430