



Full wwPDB NMR Structure Validation Report ⓘ

Jun 6, 2023 – 02:34 pm BST

PDB ID : 5MWQ
BMRB ID : 34087
Title : Biosynthetic engineered A21K-B31K-B32R human insulin monomer structure
in water/acetonitrile solution
Authors : Bocian, W.; Kozerski, L.
Deposited on : 2017-01-19

This is a Full wwPDB NMR Structure 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/NMRValidationReportHelp>

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:

MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
wwPDB-RCI : v_1n_11_5_13_A (Berjanski et al., 2005)
PANAV : Wang et al. (2010)
wwPDB-ShiftChecker : v1.2
BMRB Restraints Analysis : v1.2
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.33

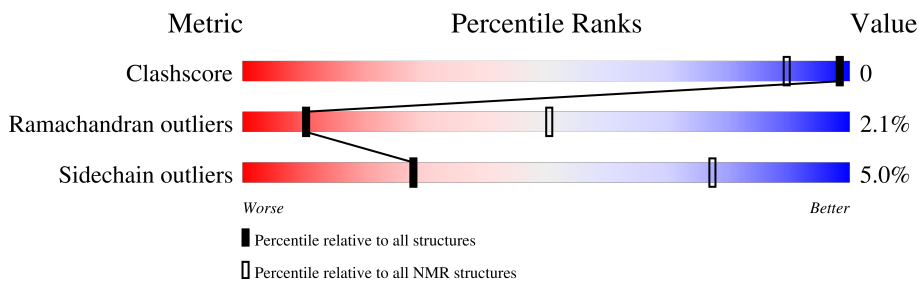
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLUTION NMR

The overall completeness of chemical shifts assignment is 52%.

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



Metric	Whole archive (#Entries)	NMR archive (#Entries)
Clashscore	158937	12864
Ramachandran outliers	154571	11451
Sidechain outliers	154315	11428

The table below summarises the geometric issues observed across the polymeric chains and their fit to the experimental data. The red, orange, yellow and green segments indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria. A cyan segment indicates the fraction of residues that are not part of the well-defined cores, and a grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$

Mol	Chain	Length	Quality of chain
1	A	21	
2	B	32	

2 Ensemble composition and analysis

This entry contains 20 models. Model 6 is the overall representative, medoid model (most similar to other models). The authors have identified model 1 as representative, based on the following criterion: *lowest energy*.

The following residues are included in the computation of the global validation metrics.

Well-defined (core) protein residues			
Well-defined core	Residue range (total)	Backbone RMSD (Å)	Medoid model
1	A:2-A:20, B:5-B:25 (40)	0.62	6

Ill-defined regions of proteins are excluded from the global statistics.

Ligands and non-protein polymers are included in the analysis.

The models can be grouped into 4 clusters and 3 single-model clusters were found.

Cluster number	Models
1	1, 2, 3, 4, 5, 6, 8, 12, 13, 16, 19
2	9, 18
3	7, 20
4	10, 11
Single-model clusters	14; 15; 17

3 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 840 atoms, of which 414 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Insulin.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	21	320	101	156	25	34	4	0

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	21	LYS	ASN	engineered mutation	UNP P01308

- Molecule 2 is a protein called Insulin.

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
2	B	32	520	170	258	46	44	2	0

There is a discrepancy between the modelled and reference sequences:

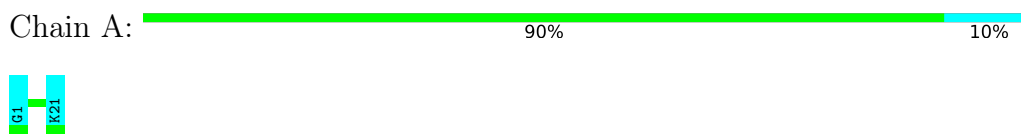
Chain	Residue	Modelled	Actual	Comment	Reference
B	31	LYS	ARG	engineered mutation	UNP P01308

4 Residue-property plots

4.1 Average score per residue in the NMR ensemble

These plots are provided for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic is the same as shown in the summary in section 1 of this report. The second graphic shows the sequence where residues are colour-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. Stretches of 2 or more consecutive residues without any outliers are shown as green connectors. Residues which are classified as ill-defined in the NMR ensemble, are shown in cyan with an underline colour-coded according to the previous scheme. Residues which were present in the experimental sample, but not modelled in the final structure are shown in grey.

- Molecule 1: Insulin



- Molecule 2: Insulin

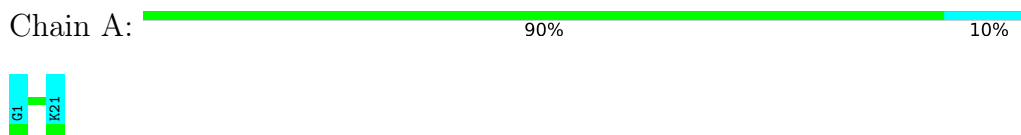


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

- Molecule 1: Insulin

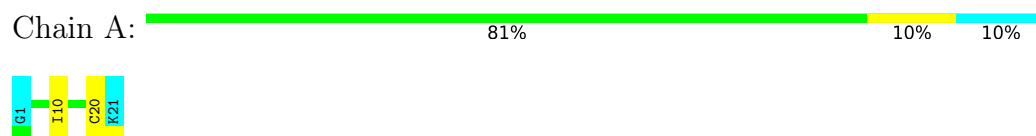


- Molecule 2: Insulin



4.2.2 Score per residue for model 2

- Molecule 1: Insulin

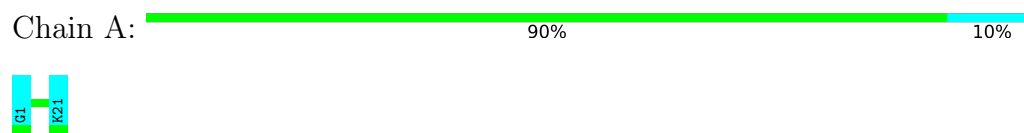


- Molecule 2: Insulin



4.2.3 Score per residue for model 3

- Molecule 1: Insulin

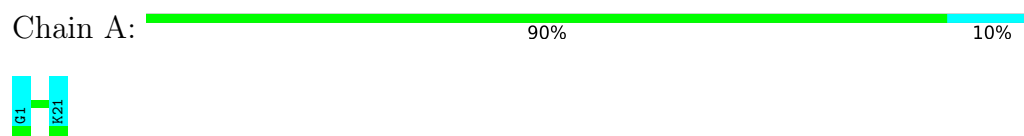


- Molecule 2: Insulin



4.2.4 Score per residue for model 4

- Molecule 1: Insulin

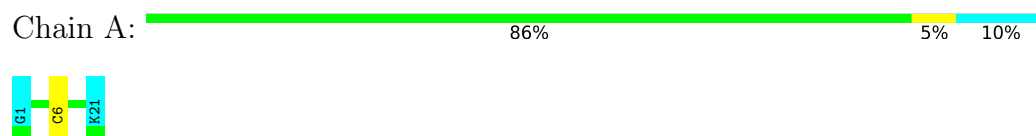


- Molecule 2: Insulin



4.2.5 Score per residue for model 5

- Molecule 1: Insulin

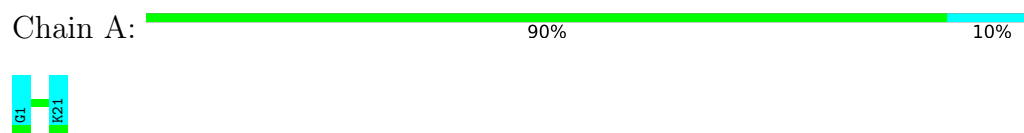


- Molecule 2: Insulin



4.2.6 Score per residue for model 6 (medoid)

- Molecule 1: Insulin

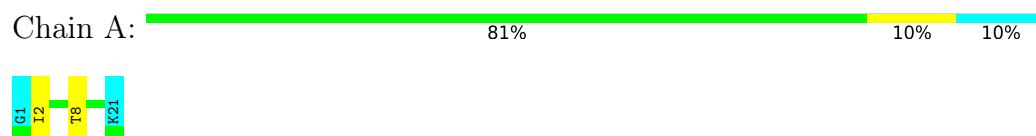


- Molecule 2: Insulin



4.2.7 Score per residue for model 7

- Molecule 1: Insulin




- Molecule 2: Insulin



4.2.8 Score per residue for model 8

- Molecule 1: Insulin

Chain A:  90% 10%




- Molecule 2: Insulin

Chain B:  53% 12% 34%



4.2.9 Score per residue for model 9

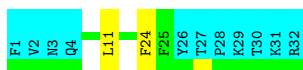
- Molecule 1: Insulin

Chain A:  90% 10%



- Molecule 2: Insulin

Chain B:  59% 6% 34%



4.2.10 Score per residue for model 10

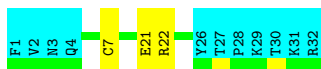
- Molecule 1: Insulin

Chain A:  76% 10% 5% 10%



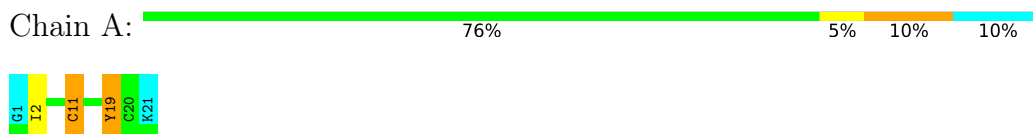
- Molecule 2: Insulin

Chain B:  56% 9% 34%



4.2.11 Score per residue for model 11

- Molecule 1: Insulin

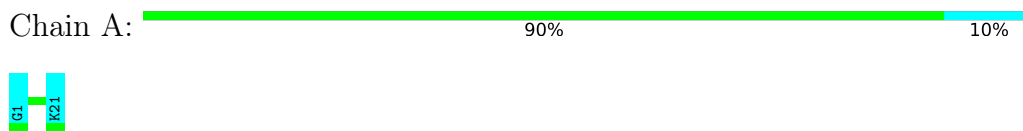


- Molecule 2: Insulin



4.2.12 Score per residue for model 12

- Molecule 1: Insulin

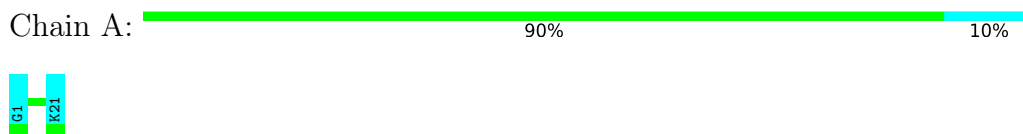


- Molecule 2: Insulin



4.2.13 Score per residue for model 13

- Molecule 1: Insulin

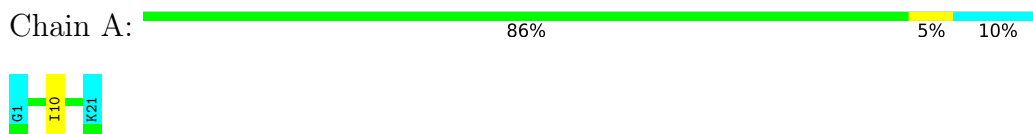


- Molecule 2: Insulin



4.2.14 Score per residue for model 14

- Molecule 1: Insulin

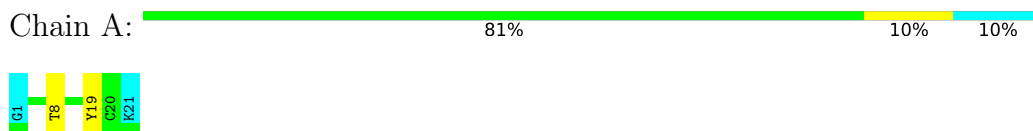


- Molecule 2: Insulin



4.2.15 Score per residue for model 15

- Molecule 1: Insulin

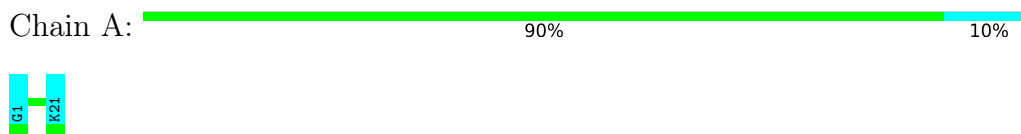


- Molecule 2: Insulin



4.2.16 Score per residue for model 16

- Molecule 1: Insulin

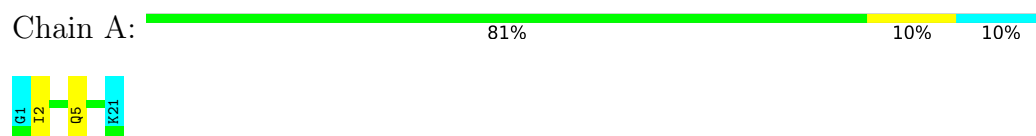


- Molecule 2: Insulin



4.2.17 Score per residue for model 17

- Molecule 1: Insulin

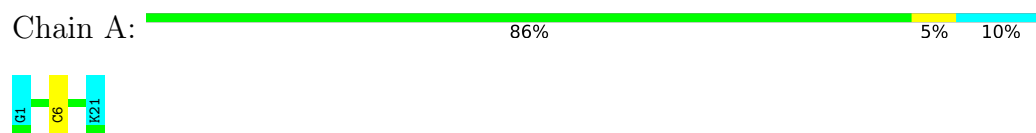


- Molecule 2: Insulin



4.2.18 Score per residue for model 18

- Molecule 1: Insulin

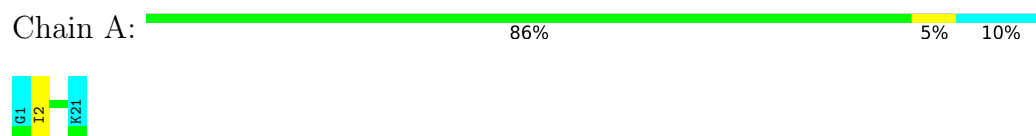


- Molecule 2: Insulin



4.2.19 Score per residue for model 19

- Molecule 1: Insulin




- Molecule 2: Insulin



4.2.20 Score per residue for model 20

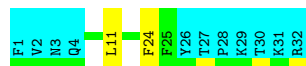
- Molecule 1: Insulin

Chain A:  81% 10% 10%



- Molecule 2: Insulin

Chain B:  59% 6% 34%



5 Refinement protocol and experimental data overview

The models were refined using the following method: *simulated annealing*.

Of the 25 calculated structures, 20 were deposited, based on the following criterion: *structures with the lowest energy*.

The following table shows the software used for structure solution, optimisation and refinement.

Software name	Classification	Version
DYANA	refinement	
Amber	structure calculation	14

The following table shows chemical shift validation statistics as aggregates over all chemical shift files. Detailed validation can be found in section 7 of this report.

Chemical shift file(s)	working_cs.cif
Number of chemical shift lists	1
Total number of shifts	363
Number of shifts mapped to atoms	363
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	52%

6 Model quality i

6.1 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 (average) 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	A	0.72±0.01	0±0/152 (0.0± 0.0%)	0.92±0.04	0±0/207 (0.0± 0.0%)
2	B	0.79±0.01	0±0/169 (0.0± 0.0%)	1.05±0.05	0±0/228 (0.2± 0.2%)
All	All	0.76	0/6420 (0.0%)	0.99	8/8700 (0.1%)

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	Planarity
1	A	0.0±0.0	0.2±0.4
2	B	0.0±0.0	0.1±0.3
All	All	0	6

There are no bond-length outliers.

All unique angle outliers are listed below. They are sorted according to the Z-score of the worst occurrence in the ensemble.

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)	Models	
								Worst	Total
2	B	22	ARG	NE-CZ-NH2	7.63	124.11	120.30	4	4
2	B	22	ARG	NE-CZ-NH1	6.57	123.59	120.30	16	4

There are no chirality outliers.

All unique planar outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Group	Models (Total)
1	A	19	TYR	Sidechain	4
2	B	22	ARG	Sidechain	2

6.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in each chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes averaged over the ensemble.

Mol	Chain	Non-H	H(model)	H(added)	Clashes
1	A	150	138	138	0±0
All	All	6280	5860	5860	2

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 0.

All unique clashes are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:2:ILE:HG23	1:A:19:TYR:CZ	0.46	2.45	10	2

6.3 Torsion angles [i](#)

6.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all NMR entries. The Analysed column shows the number of residues for which the backbone conformation was analysed and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	19/21 (90%)	19±1 (98±4%)	0±1 (2±4%)	0±0 (1±2%)	32	76
2	B	21/32 (66%)	19±1 (91±6%)	1±1 (6±5%)	1±1 (4±3%)	6	34
All	All	800/1060 (75%)	753 (94%)	30 (4%)	17 (2%)	10	50

All 4 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
2	B	24	PHE	8
2	B	23	GLY	7
1	A	20	CYS	1
1	A	11	CYS	1

6.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all NMR entries. The Analysed column shows the number of residues for which the sidechain conformation was analysed and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	19/20 (95%)	18±1 (97±3%)	1±1 (3±3%)	40	87
2	B	17/28 (61%)	16±1 (93±4%)	1±1 (7±4%)	19	68
All	All	720/960 (75%)	684 (95%)	36 (5%)	28	77

All 13 unique residues with a non-rotameric sidechain are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
2	B	11	LEU	13
2	B	22	ARG	3
2	B	24	PHE	3
1	A	2	ILE	3
1	A	5	GLN	3
1	A	10	ILE	2
1	A	6	CYS	2
1	A	8	THR	2
2	B	6	LEU	1
2	B	7	CYS	1
2	B	21	GLU	1
1	A	11	CYS	1
2	B	25	PHE	1

6.3.3 RNA [i](#)

There are no RNA molecules in this entry.

6.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

6.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.6 Ligand geometry [i](#)

There are no ligands in this entry.

6.7 Other polymers [i](#)

There are no such molecules in this entry.

6.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

7 Chemical shift validation i

The completeness of assignment taking into account all chemical shift lists is 52% for the well-defined parts and 50% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *KR14_ChemicalShift.txt*

7.1.1 Bookkeeping i

The following table shows the results of parsing the chemical shift list and reports the number of nuclei with statistically unusual chemical shifts.

Total number of shifts	363
Number of shifts mapped to atoms	363
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Number of shift outliers (ShiftChecker)	0

7.1.2 Chemical shift referencing i

No chemical shift referencing corrections were calculated (not enough data).

7.1.3 Completeness of resonance assignments i

The following table shows the completeness of the chemical shift assignments for the well-defined regions of the structure. The overall completeness is 52%, i.e. 276 atoms were assigned a chemical shift out of a possible 529. 0 out of 9 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	83/203 (41%)	83/83 (100%)	0/80 (0%)	0/40 (0%)
Sidechain	169/265 (64%)	169/175 (97%)	0/84 (0%)	0/6 (0%)
Aromatic	24/61 (39%)	24/30 (80%)	0/29 (0%)	0/2 (0%)
Overall	276/529 (52%)	276/288 (96%)	0/193 (0%)	0/48 (0%)

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 50%, i.e. 363 atoms were assigned a chemical shift out of a possible 723. 0 out of 10 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹ H	¹³ C	¹⁵ N
Backbone	105/267 (39%)	105/109 (96%)	0/106 (0%)	0/52 (0%)
Sidechain	230/376 (61%)	230/245 (94%)	0/117 (0%)	0/14 (0%)
Aromatic	28/80 (35%)	28/39 (72%)	0/39 (0%)	0/2 (0%)
Overall	363/723 (50%)	363/393 (92%)	0/262 (0%)	0/68 (0%)

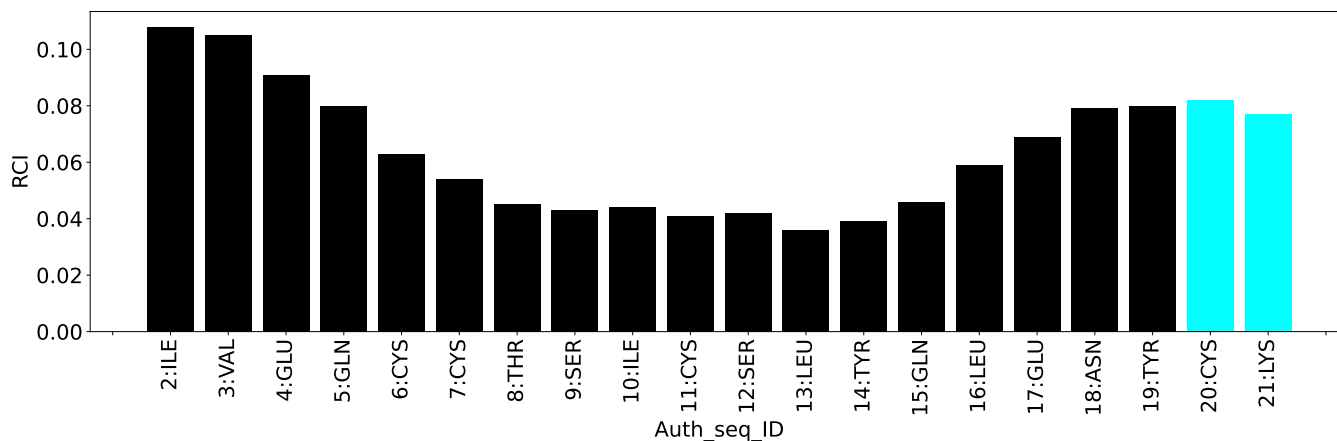
7.1.4 Statistically unusual chemical shifts [i](#)

There are no statistically unusual chemical shifts.

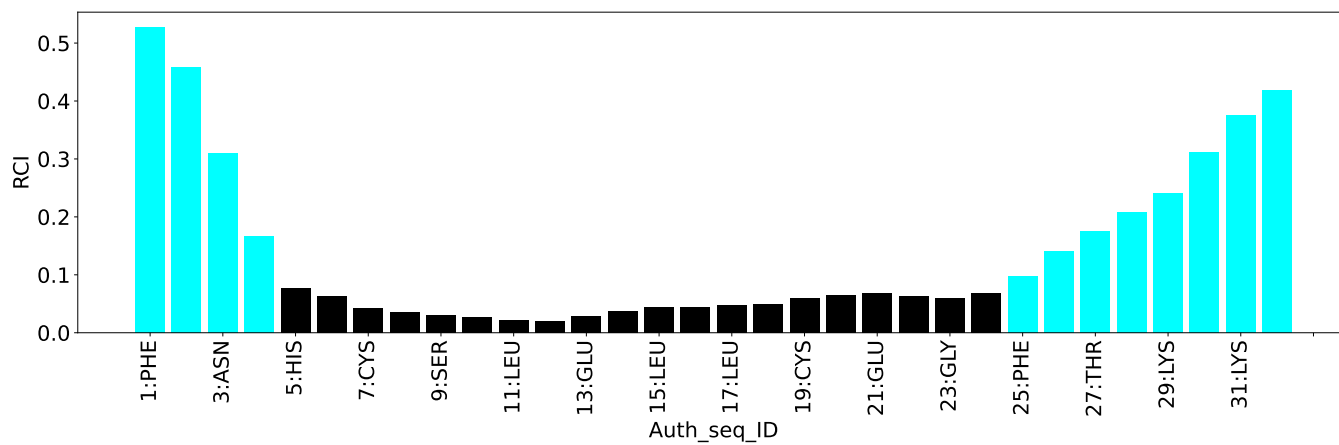
7.1.5 Random Coil Index (RCI) plots [i](#)

The image below reports *random coil index* values for the protein chains in the structure. The height of each bar gives a probability of a given residue to be disordered, as predicted from the available chemical shifts and the amino acid sequence. A value above 0.2 is an indication of significant predicted disorder. The colour of the bar shows whether the residue is in the well-defined core (black) or in the ill-defined residue ranges (cyan), as described in section 2 on ensemble composition. If well-defined core and ill-defined regions are not identified then it is shown as gray bars.

Random coil index (RCI) for chain A:



Random coil index (RCI) for chain B:



8 NMR restraints analysis

8.1 Conformationally restricting restraints

The following table provides the summary of experimentally observed NMR restraints in different categories. Restraints are classified into different categories based on the sequence separation of the atoms involved.

Description	Value
Total distance restraints	715
Intra-residue ($ i-j =0$)	219
Sequential ($ i-j =1$)	223
Medium range ($ i-j >1$ and $ i-j <5$)	156
Long range ($ i-j \geq 5$)	44
Inter-chain	73
Hydrogen bond restraints	0
Disulfide bond restraints	0
Total dihedral-angle restraints	166
Number of unmapped restraints	0
Number of restraints per residue	16.6
Number of long range restraints per residue ¹	0.8

¹Long range hydrogen bonds and disulfide bonds are counted as long range restraints while calculating the number of long range restraints per residue

8.2 Residual restraint violations

This section provides the overview of the restraint violations analysis. The violations are binned as small, medium and large violations based on its absolute value. Average number of violations per model is calculated by dividing the total number of violations in each bin by the size of the ensemble.

8.2.1 Average number of distance violations per model

Distance violations less than 0.1 Å are not included in the calculation.

Bins (Å)	Average number of violations per model	Max (Å)
0.1-0.2 (Small)	0.3	0.16
0.2-0.5 (Medium)	0.1	0.32
>0.5 (Large)	1.4	1.93

8.2.2 Average number of dihedral-angle violations per model [i](#)

Dihedral-angle violations less than 1° are not included in the calculation.

Bins (°)	Average number of violations per model	Max (°)
1.0-10.0 (Small)	8.9	9.9
10.0-20.0 (Medium)	2.2	20.0
>20.0 (Large)	25.8	105.0

9 Distance violation analysis [i](#)

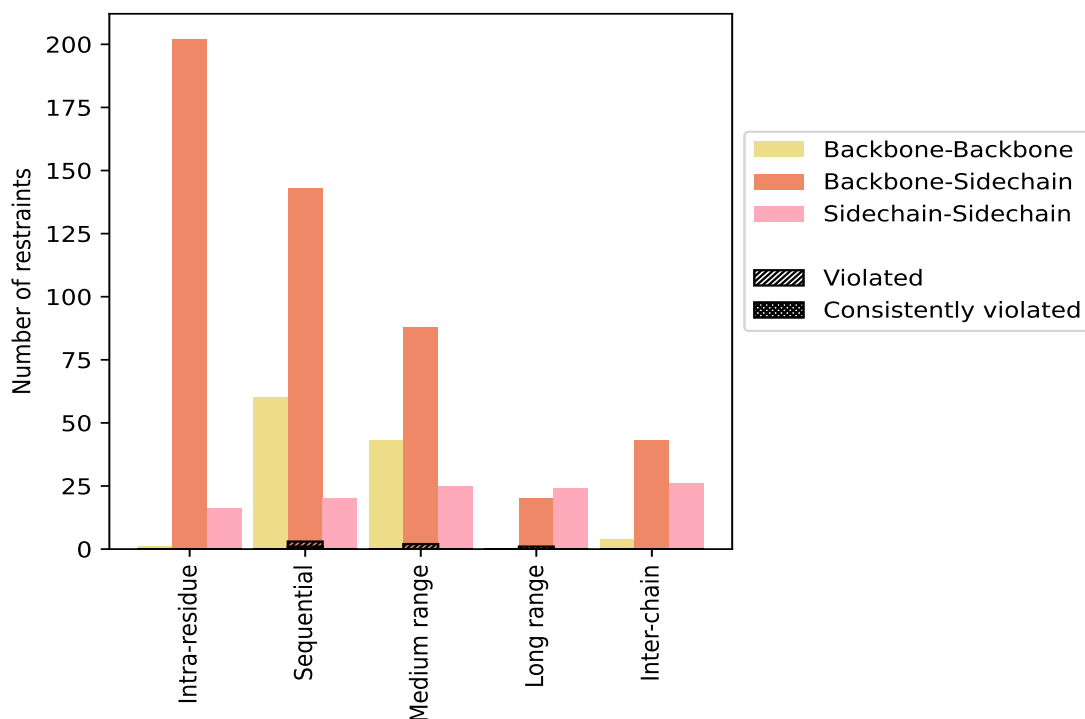
9.1 Summary of distance violations [i](#)

The following table shows the summary of distance violations in different restraint categories based on the sequence separation of the atoms involved. Each category is further sub-divided into three sub-categories based on the atoms involved. Violations less than 0.1 Å are not included in the statistics.

Restrains type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
Intra-residue ($i-j =0$)	219	30.6	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	1	0.1	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	202	28.3	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	16	2.2	0	0.0	0.0	0	0.0	0.0
Sequential ($i-j =1$)	223	31.2	3	1.3	0.4	1	0.4	0.1
Backbone-Backbone	60	8.4	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	143	20.0	3	2.1	0.4	1	0.7	0.1
Sidechain-Sidechain	20	2.8	0	0.0	0.0	0	0.0	0.0
Medium range ($i-j >1$ & $i-j <5$)	156	21.8	2	1.3	0.3	0	0.0	0.0
Backbone-Backbone	43	6.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	88	12.3	2	2.3	0.3	0	0.0	0.0
Sidechain-Sidechain	25	3.5	0	0.0	0.0	0	0.0	0.0
Long range ($i-j \geq 5$)	44	6.2	1	2.3	0.1	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	20	2.8	1	5.0	0.1	0	0.0	0.0
Sidechain-Sidechain	24	3.4	0	0.0	0.0	0	0.0	0.0
Inter-chain	73	10.2	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	4	0.6	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	43	6.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	26	3.6	0	0.0	0.0	0	0.0	0.0
Hydrogen bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Disulfide bond	0	0.0	0	0.0	0.0	0	0.0	0.0
Total	715	100.0	6	0.8	0.8	1	0.1	0.1
Backbone-Backbone	108	15.1	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	496	69.4	6	1.2	0.8	1	0.2	0.1
Sidechain-Sidechain	111	15.5	0	0.0	0.0	0	0.0	0.0

¹ percentage calculated with respect to the total number of distance restraints, ² percentage calculated with respect to the number of restraints in a particular restraint category, ³ violated in at least one model, ⁴ violated in all the models

9.1.1 Bar chart : Distribution of distance restraints and violations [i](#)



Violated and consistently violated restraints are shown using different hatch patterns in their respective categories. The hydrogen bonds and disulfid bonds are counted in their appropriate category on the x-axis

9.2 Distance violation statistics for each model [i](#)

The following table provides the distance violation statistics for each model in the ensemble. Violations less than 0.1 Å are not included in the statistics.

Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
1	0	1	0	0	0	1	1.3	1.3	0.0	1.3
2	0	1	0	0	0	1	1.55	1.55	0.0	1.55
3	0	2	1	0	0	3	0.77	1.63	0.63	0.53
4	0	1	1	0	0	2	0.87	0.88	0.01	0.87
5	0	1	0	0	0	1	1.53	1.53	0.0	1.53
6	0	1	0	0	0	1	1.43	1.43	0.0	1.43
7	0	2	1	0	0	3	0.66	0.84	0.13	0.62
8	0	2	0	1	0	3	0.78	1.55	0.55	0.52
9	0	1	0	0	0	1	1.52	1.52	0.0	1.52
10	0	1	1	0	0	2	1.01	1.85	0.84	1.01
11	0	1	0	0	0	1	1.93	1.93	0.0	1.93

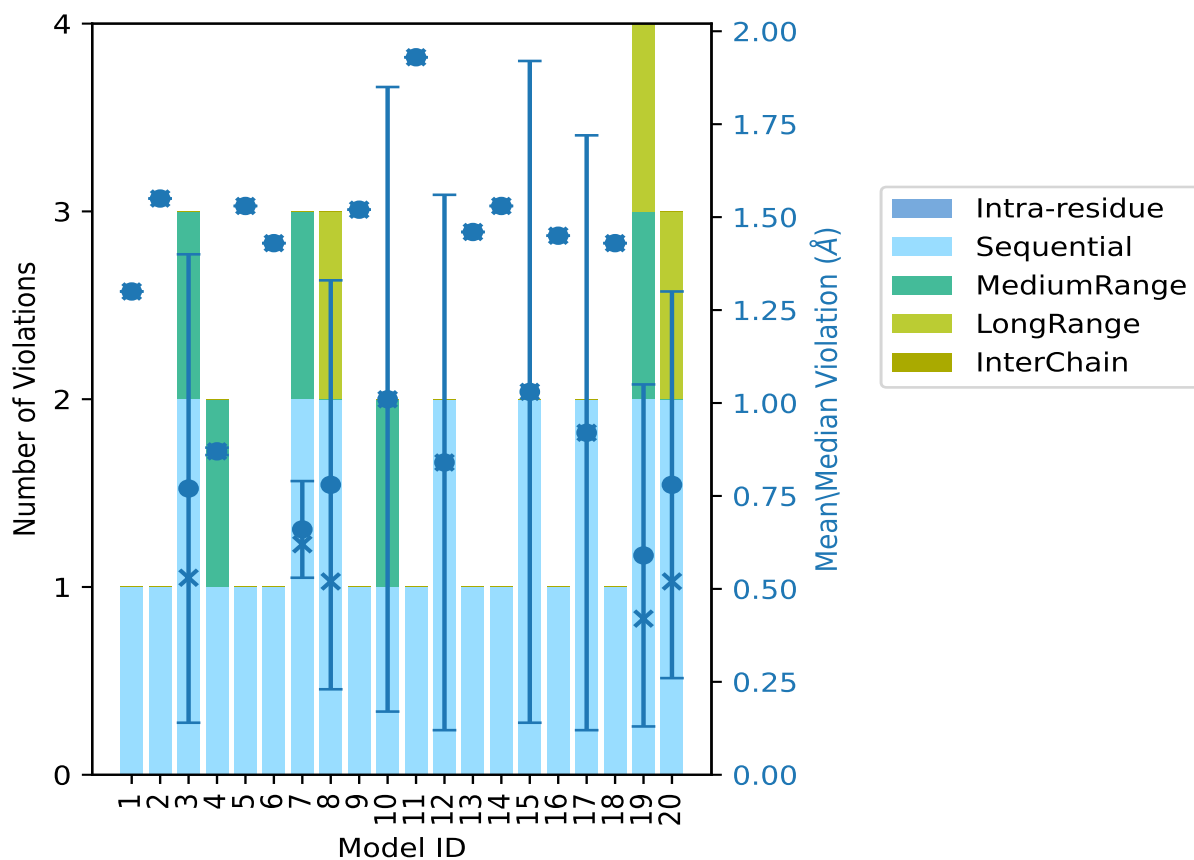
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Model ID	Number of violations						Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total				
12	0	2	0	0	0	2	0.84	1.55	0.72	0.84
13	0	1	0	0	0	1	1.46	1.46	0.0	1.46
14	0	1	0	0	0	1	1.53	1.53	0.0	1.53
15	0	2	0	0	0	2	1.03	1.93	0.89	1.03
16	0	1	0	0	0	1	1.45	1.45	0.0	1.45
17	0	2	0	0	0	2	0.92	1.72	0.8	0.92
18	0	1	0	0	0	1	1.43	1.43	0.0	1.43
19	0	2	1	1	0	4	0.59	1.35	0.46	0.42
20	0	2	0	1	0	3	0.78	1.5	0.52	0.52

¹Intra-residue restraints, ²Sequential restraints, ³Medium range restraints, ⁴Long range restraints, ⁵Inter-chain restraints, ⁶Standard deviation

9.2.1 Bar graph : Distance Violation statistics for each model [\(i\)](#)



The mean(dot), median(x) and the standard deviation are shown in blue with respect to the y axis on the right

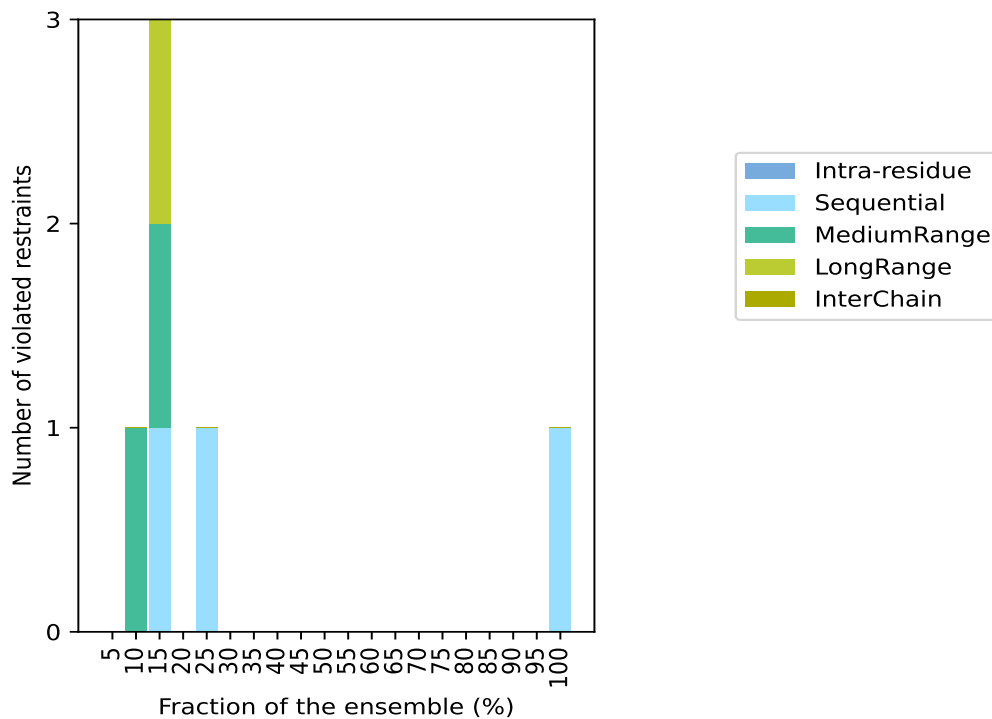
9.3 Distance violation statistics for the ensemble

Violation analysis may find that some restraints are violated in few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of the ensemble. In total, 709(IR:219, SQ:220, MR:154, LR:43, IC:73) restraints are not violated in the ensemble.

Number of violated restraints						Fraction of the ensemble	
IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵	Total	Count ⁶	%
0	0	0	0	0	0	1	5.0
0	0	1	0	0	1	2	10.0
0	1	1	1	0	3	3	15.0
0	0	0	0	0	0	4	20.0
0	1	0	0	0	1	5	25.0
0	0	0	0	0	0	6	30.0
0	0	0	0	0	0	7	35.0
0	0	0	0	0	0	8	40.0
0	0	0	0	0	0	9	45.0
0	0	0	0	0	0	10	50.0
0	0	0	0	0	0	11	55.0
0	0	0	0	0	0	12	60.0
0	0	0	0	0	0	13	65.0
0	0	0	0	0	0	14	70.0
0	0	0	0	0	0	15	75.0
0	0	0	0	0	0	16	80.0
0	0	0	0	0	0	17	85.0
0	0	0	0	0	0	18	90.0
0	0	0	0	0	0	19	95.0
0	1	0	0	0	1	20	100.0

¹Intra-residue restraints, ²Sequential restraints, ³Medium range restraints, ⁴Long range restraints, ⁵Inter-chain restraints, ⁶ Number of models with violations

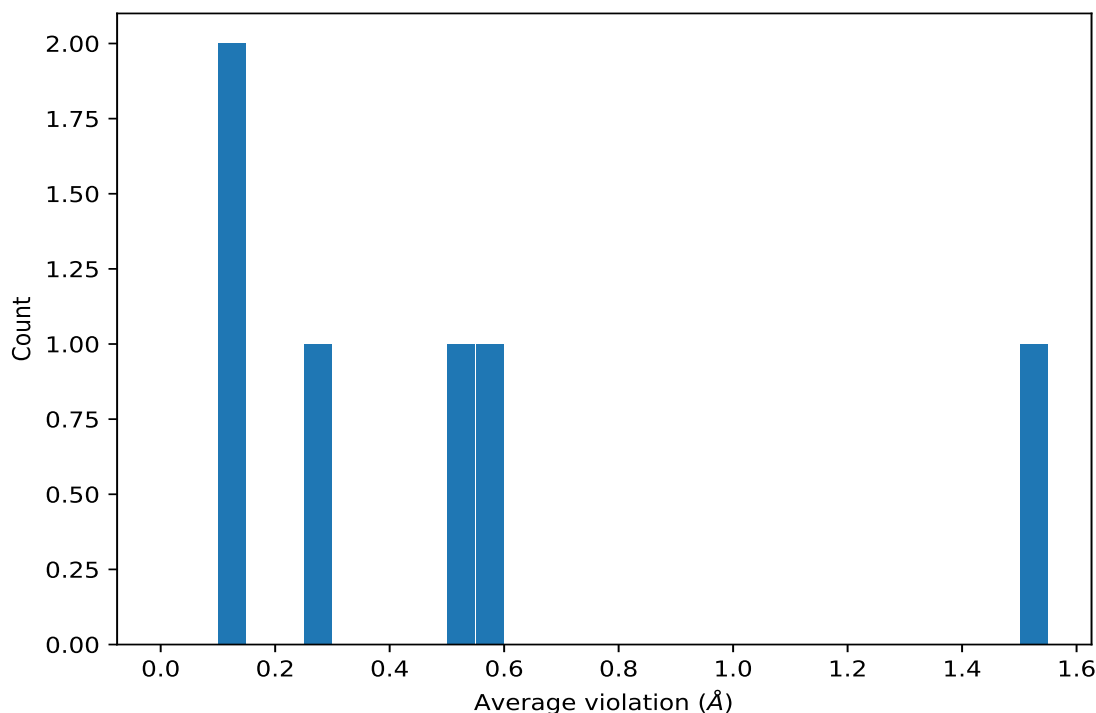
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



9.4 Most violated distance restraints in the ensemble [i](#)

9.4.1 Histogram : Distribution of mean distance violations [i](#)

The following histogram shows the distribution of the average value of the violation. The average is calculated for each restraint that is violated in more than one model over all the violated models in the ensemble



9.4.2 Table: Most violated distance restraints [i](#)

The following table provides the mean and the standard deviation of the violation for each restraint sorted by number of violated models and the mean value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint. Rows with same key represent combinatorial or ambiguous restraints and are counted as a single restraint.

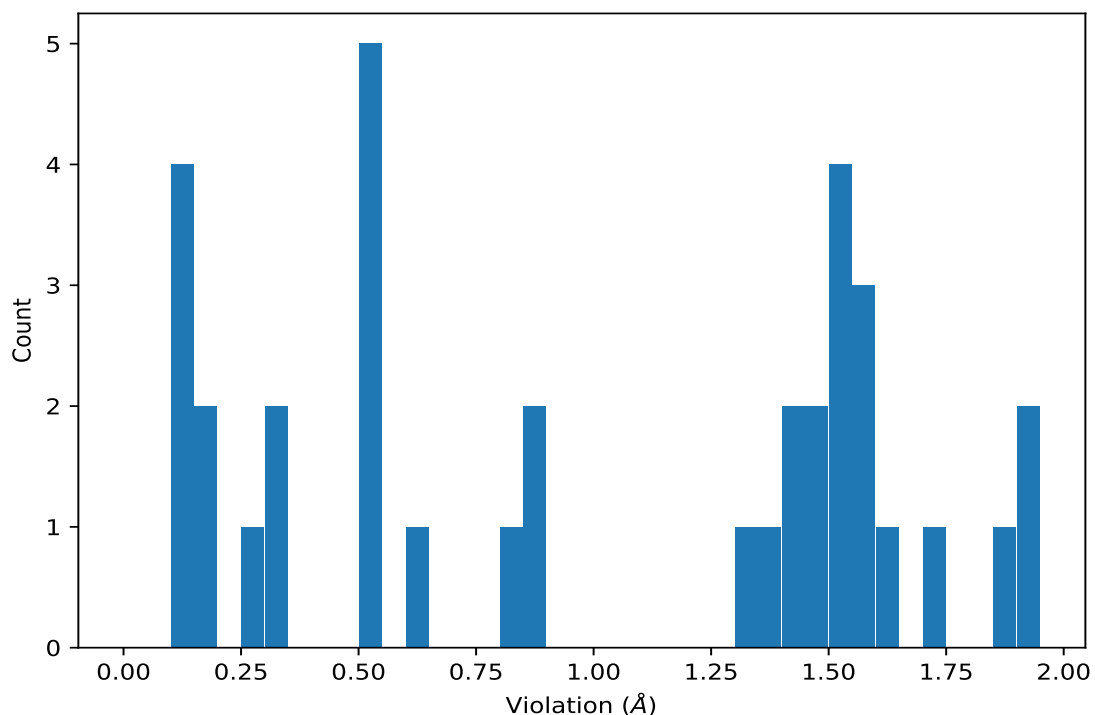
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,271)	2:B:9:SER:H	2:B:10:HIS:HD1	20	1.5	0.27	1.52
(1,210)	2:B:13:GLU:H	2:B:14:ALA:HB1	5	0.52	0.0	0.52
(1,470)	2:B:7:CYS:H	2:B:10:HIS:HD1	3	0.55	0.29	0.62
(1,376)	2:B:6:LEU:HA	2:B:14:ALA:HB1	3	0.3	0.02	0.31
(1,214)	2:B:14:ALA:HB1	2:B:15:LEU:H	3	0.12	0.01	0.12
(1,410)	2:B:11:LEU:HA	2:B:14:ALA:HB1	2	0.15	0.01	0.15

¹Number of violated models, ²Standard deviation

9.5 All violated distance restraints [i](#)

9.5.1 Histogram : Distribution of distance violations [i](#)

The following histogram shows the distribution of the absolute value of the violation for all violated restraints in the ensemble.



9.5.2 Table : All distance violations [i](#)

The following table lists the absolute value of the violation for each restraint in the ensemble sorted by its value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint. Rows with same key represent combinatorial or ambiguous restraints and are counted as a single restraint.

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,271)	2:B:9:SER:H	2:B:10:HIS:HD1	11	1.93
(1,271)	2:B:9:SER:H	2:B:10:HIS:HD1	15	1.93
(1,271)	2:B:9:SER:H	2:B:10:HIS:HD1	10	1.85
(1,271)	2:B:9:SER:H	2:B:10:HIS:HD1	17	1.72
(1,271)	2:B:9:SER:H	2:B:10:HIS:HD1	3	1.63
(1,271)	2:B:9:SER:H	2:B:10:HIS:HD1	2	1.55
(1,271)	2:B:9:SER:H	2:B:10:HIS:HD1	8	1.55
(1,271)	2:B:9:SER:H	2:B:10:HIS:HD1	12	1.55
(1,271)	2:B:9:SER:H	2:B:10:HIS:HD1	5	1.53
(1,271)	2:B:9:SER:H	2:B:10:HIS:HD1	14	1.53
(1,271)	2:B:9:SER:H	2:B:10:HIS:HD1	9	1.52
(1,271)	2:B:9:SER:H	2:B:10:HIS:HD1	20	1.5
(1,271)	2:B:9:SER:H	2:B:10:HIS:HD1	13	1.46
(1,271)	2:B:9:SER:H	2:B:10:HIS:HD1	16	1.45
(1,271)	2:B:9:SER:H	2:B:10:HIS:HD1	6	1.43
(1,271)	2:B:9:SER:H	2:B:10:HIS:HD1	18	1.43

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Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,271)	2:B:9:SER:H	2:B:10:HIS:HD1	19	1.35
(1,271)	2:B:9:SER:H	2:B:10:HIS:HD1	1	1.3
(1,271)	2:B:9:SER:H	2:B:10:HIS:HD1	4	0.88
(1,470)	2:B:7:CYS:H	2:B:10:HIS:HD1	4	0.86
(1,271)	2:B:9:SER:H	2:B:10:HIS:HD1	7	0.84
(1,470)	2:B:7:CYS:H	2:B:10:HIS:HD1	7	0.62
(1,210)	2:B:13:GLU:H	2:B:14:ALA:HB1	3	0.53
(1,210)	2:B:13:GLU:H	2:B:14:ALA:HB1	7	0.53
(1,210)	2:B:13:GLU:H	2:B:14:ALA:HB1	8	0.52
(1,210)	2:B:13:GLU:H	2:B:14:ALA:HB1	19	0.52
(1,210)	2:B:13:GLU:H	2:B:14:ALA:HB1	20	0.52
(1,376)	2:B:6:LEU:HA	2:B:14:ALA:HB1	19	0.32
(1,376)	2:B:6:LEU:HA	2:B:14:ALA:HB1	20	0.31
(1,376)	2:B:6:LEU:HA	2:B:14:ALA:HB1	8	0.27
(1,470)	2:B:7:CYS:H	2:B:10:HIS:HD1	10	0.16
(1,410)	2:B:11:LEU:HA	2:B:14:ALA:HB1	19	0.16
(1,410)	2:B:11:LEU:HA	2:B:14:ALA:HB1	3	0.14
(1,214)	2:B:14:ALA:HB1	2:B:15:LEU:H	15	0.14
(1,214)	2:B:14:ALA:HB1	2:B:15:LEU:H	12	0.12
(1,214)	2:B:14:ALA:HB1	2:B:15:LEU:H	17	0.11

10 Dihedral-angle violation analysis [i](#)

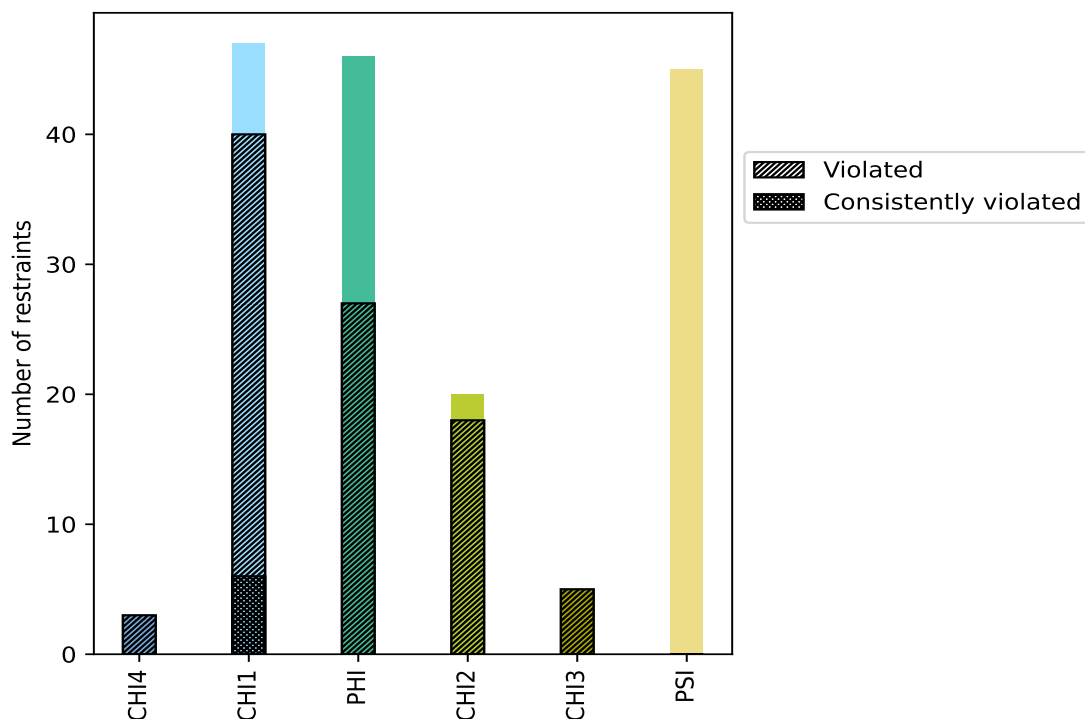
10.1 Summary of dihedral-angle violations [i](#)

The following table provides the summary of dihedral-angle violations in different dihedral-angle types. Violations less than 1° are not included in the calculation.

Angle type	Count	% ¹	Violated ³			Consistently Violated ⁴		
			Count	% ²	% ¹	Count	% ²	% ¹
CHI4	3	1.8	3	100.0	1.8	0	0.0	0.0
CHI1	47	28.3	40	85.1	24.1	6	12.8	3.6
PHI	46	27.7	27	58.7	16.3	0	0.0	0.0
CHI2	20	12.0	18	90.0	10.8	0	0.0	0.0
CHI3	5	3.0	5	100.0	3.0	0	0.0	0.0
PSI	45	27.1	0	0.0	0.0	0	0.0	0.0
Total	166	100.0	93	56.0	56.0	6	3.6	3.6

¹ percentage calculated with respect to total number of dihedral-angle restraints, ² percentage calculated with respect to number of restraints in a particular dihedral-angle type, ³ violated in at least one model, ⁴ violated in all the models

10.1.1 Bar chart : Distribution of dihedral-angles and violations [i](#)



Violated and consistently violated restraints are shown using different hatch patterns in their

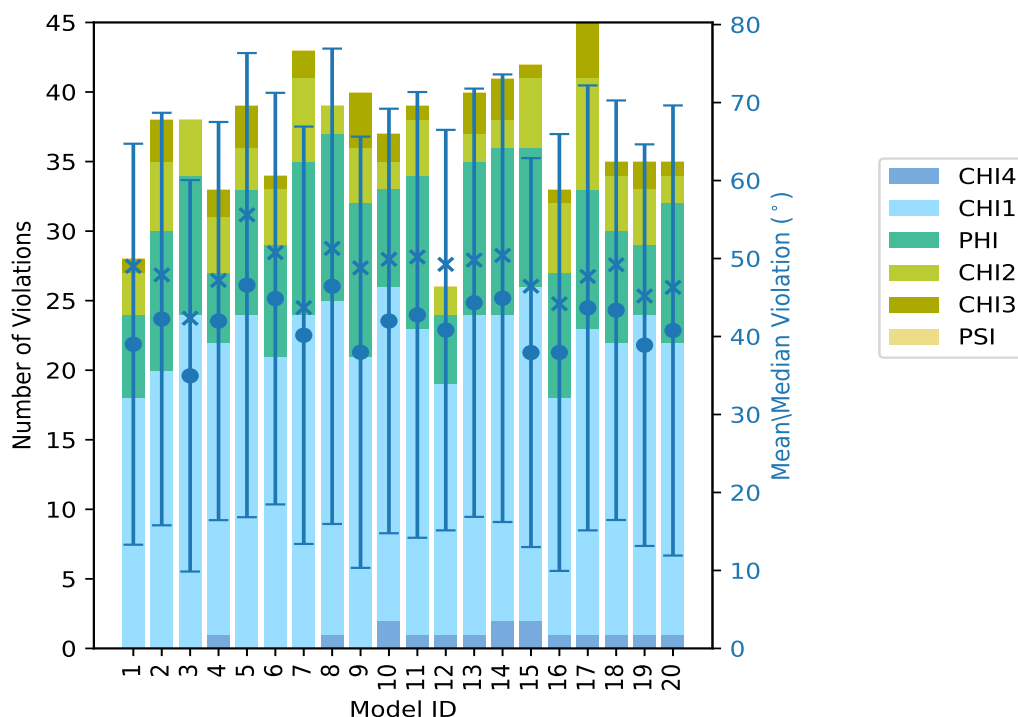
respective categories

10.2 Dihedral-angle violation statistics for each model

The following table provides the dihedral-angle violation statistics for each model in the ensemble. Violations less than 1° are not included in the statistics.

Model ID	Number of violations							Mean (°)	Max (°)	SD (°)	Median
	CHI4	CHI1	PHI	CHI2	CHI3	PSI	Total				
1	0	18	6	3	1	0	28	39.01	90.7	25.71	49.0
2	0	20	10	5	3	0	38	42.24	98.7	26.45	47.9
3	0	24	10	4	0	0	38	34.96	97.1	25.1	42.35
4	1	21	5	4	2	0	33	41.98	96.7	25.53	47.2
5	0	24	9	3	3	0	39	46.59	94.3	29.76	55.6
6	0	21	8	4	1	0	34	44.86	99.6	26.39	50.75
7	0	24	11	6	2	0	43	40.16	93.1	26.76	43.7
8	1	24	12	2	0	0	39	46.44	99.2	30.48	51.3
9	0	21	11	4	4	0	40	37.98	95.2	27.65	48.8
10	2	24	7	2	2	0	37	41.99	88.8	27.22	49.9
11	1	22	11	4	1	0	39	42.77	98.3	28.58	50.2
12	1	18	5	2	0	0	26	40.82	87.9	25.68	49.25
13	1	23	11	2	3	0	40	44.33	97.2	27.46	49.8
14	2	22	12	2	3	0	41	44.91	105.0	28.7	50.4
15	2	24	10	5	1	0	42	37.94	90.8	24.94	46.45
16	1	17	9	5	1	0	33	37.95	102.2	28.01	44.2
17	1	22	10	8	4	0	45	43.67	102.5	28.53	47.7
18	1	21	8	4	1	0	35	43.37	94.7	26.9	49.2
19	1	23	5	4	2	0	35	38.89	89.0	25.75	45.2
20	1	21	10	2	1	0	35	40.77	98.0	28.86	46.3

10.2.1 Bar graph : Dihedral violation statistics for each model [i](#)



The mean(dot),median(x) and the standard deviation are shown in blue with respect to the y axis on the right

10.3 Dihedral-angle violation statistics for the ensemble [i](#)

Violation analysis may find that some restraints are violated in very few models and some are violated in most of models. The following table provides this information as number of violated restraints for a given fraction of ensemble.

Number of violated restraints							Fraction of the ensemble	
CHI4	CHI1	PHI	CHI2	CHI3	PSI	Total	Count ¹	%
0	3	5	1	0	0	9	1	5.0
0	3	5	5	0	0	13	2	10.0
0	2	2	3	1	0	8	3	15.0
1	5	3	2	0	0	11	4	20.0
0	2	2	0	0	0	4	5	25.0
2	0	0	3	0	0	5	6	30.0
0	2	2	3	2	0	9	7	35.0
0	1	0	1	0	0	2	8	40.0
0	1	0	0	2	0	3	9	45.0
0	0	0	0	0	0	0	10	50.0
0	1	0	0	0	0	1	11	55.0

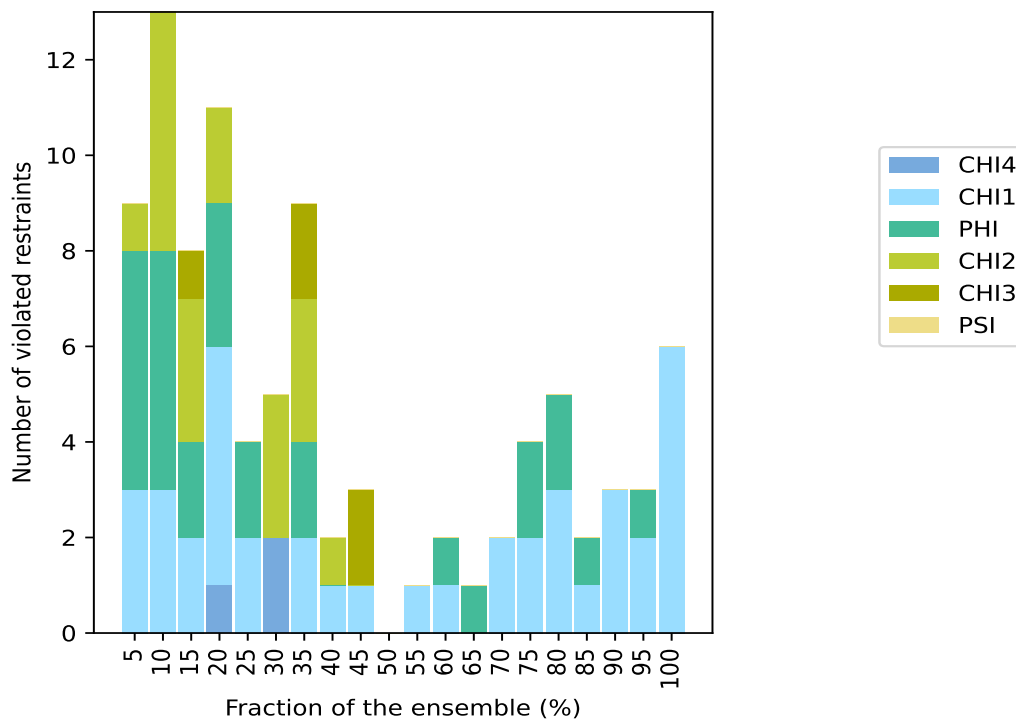
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Number of violated restraints							Fraction of the ensemble	
CHI4	CHI1	PHI	CHI2	CHI3	PSI	Total	Count ¹	%
0	1	1	0	0	0	2	12	60.0
0	0	1	0	0	0	1	13	65.0
0	2	0	0	0	0	2	14	70.0
0	2	2	0	0	0	4	15	75.0
0	3	2	0	0	0	5	16	80.0
0	1	1	0	0	0	2	17	85.0
0	3	0	0	0	0	3	18	90.0
0	2	1	0	0	0	3	19	95.0
0	6	0	0	0	0	6	20	100.0

¹ Number of models with violations

10.3.1 Bar graph : Dihedral-angle Violation statistics for the ensemble [i](#)

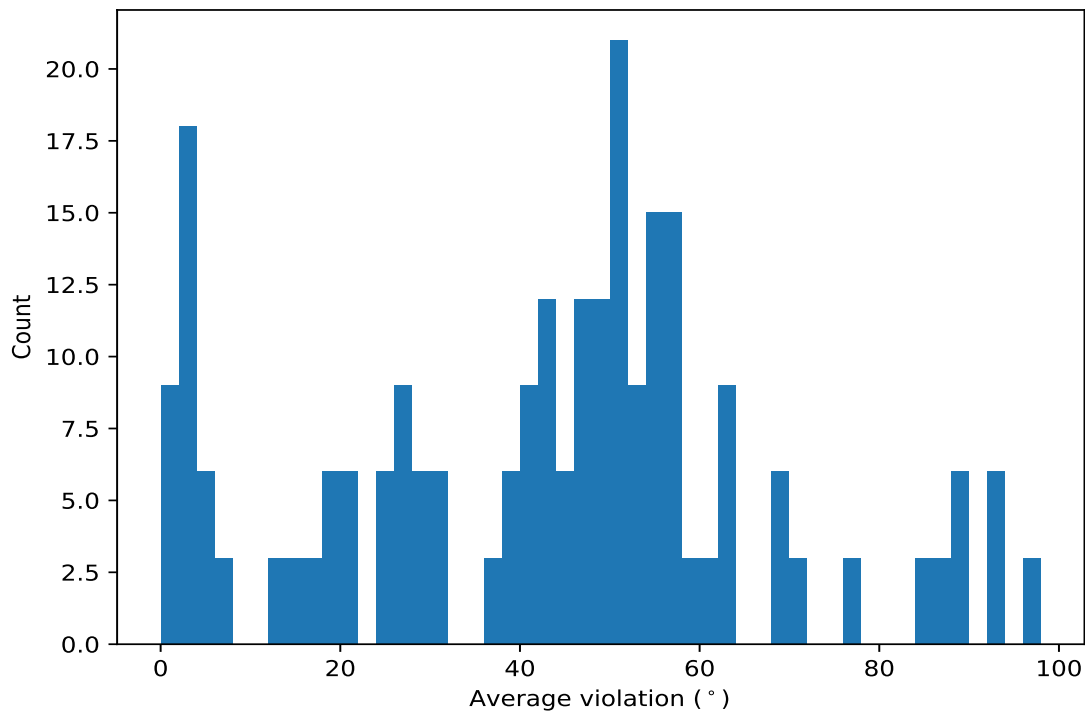


10.4 Most violated dihedral-angle restraints in the ensemble [i](#)

10.4.1 Histogram : Distribution of mean dihedral-angle violations [i](#)

The following histogram shows the distribution of the average value of the violation. The average is calculated for each restraint that is violated in more than one model over all the violated models

in the ensemble



10.4.2 Table: Most violated dihedral-angle restraints [i](#)

The following table provides the mean and the standard deviation of the violation for each restraint sorted by number of violated models and the mean value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint.

Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	20	51.86	9.39	53.4
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	20	51.86	9.39	53.4
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	20	51.86	9.39	53.4
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	20	48.88	3.57	49.35
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	20	48.88	3.57	49.35
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	20	48.88	3.57	49.35
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	20	48.22	5.5	49.0
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	20	48.22	5.5	49.0
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	20	48.22	5.5	49.0
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	20	43.28	8.96	45.05
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	20	43.28	8.96	45.05
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	20	43.28	8.96	45.05
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	20	20.49	5.57	20.0
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	20	20.49	5.57	20.0
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	20	20.49	5.57	20.0
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	20	16.2	2.71	16.2
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	20	16.2	2.71	16.2
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	20	16.2	2.71	16.2
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	19	57.6	8.07	59.1
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	19	57.6	8.07	59.1

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	19	57.6	8.07	59.1
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	19	52.98	2.01	52.5
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	19	52.98	2.01	52.5
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	19	52.98	2.01	52.5
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	19	6.49	2.77	6.2
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	19	6.49	2.77	6.2
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	19	6.49	2.77	6.2
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	18	50.94	4.84	51.1
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	18	50.94	4.84	51.1
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	18	50.94	4.84	51.1
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	18	41.29	22.74	52.25
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	18	41.29	22.74	52.25
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	18	41.29	22.74	52.25
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	18	40.11	10.71	40.65
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	18	40.11	10.71	40.65
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	18	40.11	10.71	40.65
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	17	51.79	16.24	56.6
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	17	51.79	16.24	56.6
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	17	51.79	16.24	56.6
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	17	2.65	1.13	2.3
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	17	2.65	1.13	2.3
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	17	2.65	1.13	2.3
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	16	92.52	4.74	90.5
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	16	92.52	4.74	90.5
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	16	92.52	4.74	90.5
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	16	69.24	5.36	69.15
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	16	69.24	5.36	69.15
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	16	69.24	5.36	69.15
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	16	49.36	2.02	49.0
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	16	49.36	2.02	49.0
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	16	49.36	2.02	49.0
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	16	39.62	11.01	44.5
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	16	39.62	11.01	44.5
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	16	39.62	11.01	44.5
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	16	3.8	1.49	3.75
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	16	3.8	1.49	3.75
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	16	3.8	1.49	3.75
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	15	71.53	7.25	71.8
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	15	71.53	7.25	71.8
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	15	71.53	7.25	71.8
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	15	57.79	16.02	60.2
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	15	57.79	16.02	60.2
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	15	57.79	16.02	60.2
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	15	3.65	2.55	2.7
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	15	3.65	2.55	2.7
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	15	3.65	2.55	2.7
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	15	2.63	0.61	2.6
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	15	2.63	0.61	2.6
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	15	2.63	0.61	2.6
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	14	57.14	7.07	59.85
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	14	57.14	7.07	59.85

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	14	57.14	7.07	59.85
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	14	27.05	28.66	3.15
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	14	27.05	28.66	3.15
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	14	27.05	28.66	3.15
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	13	4.39	2.02	3.8
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	13	4.39	2.02	3.8
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	13	4.39	2.02	3.8
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	12	57.93	40.51	89.1
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	12	57.93	40.51	89.1
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	12	57.93	40.51	89.1
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	12	43.18	34.88	45.8
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	12	43.18	34.88	45.8
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	12	43.18	34.88	45.8
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	11	55.05	8.32	53.4
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	11	55.05	8.32	53.4
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	11	55.05	8.32	53.4
(1,154)	2:B:27:THR:N	2:B:27:THR:CA	2:B:27:THR:CB	2:B:27:THR:OG1	9	87.78	1.97	88.2
(1,154)	2:B:27:THR:N	2:B:27:THR:CA	2:B:27:THR:CB	2:B:27:THR:OG1	9	87.78	1.97	88.2
(1,154)	2:B:27:THR:N	2:B:27:THR:CA	2:B:27:THR:CB	2:B:27:THR:OG1	9	87.78	1.97	88.2
(1,150)	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	2:B:22:ARG:NE	9	46.24	18.61	52.8
(1,150)	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	2:B:22:ARG:NE	9	46.24	18.61	52.8
(1,150)	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	2:B:22:ARG:NE	9	46.24	18.61	52.8
(1,157)	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	9	42.34	21.17	53.1
(1,157)	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	9	42.34	21.17	53.1
(1,157)	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	9	42.34	21.17	53.1
(1,159)	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:CB	2:B:30:THR:OG1	8	84.48	3.62	86.1
(1,159)	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:CB	2:B:30:THR:OG1	8	84.48	3.62	86.1
(1,159)	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:CB	2:B:30:THR:OG1	8	84.48	3.62	86.1
(1,127)	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	2:B:4:GLN:CD	8	29.98	27.06	25.0
(1,127)	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	2:B:4:GLN:CD	8	29.98	27.06	25.0
(1,127)	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	2:B:4:GLN:CD	8	29.98	27.06	25.0
(1,164)	2:B:32:ARG:N	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	7	62.99	6.19	62.1
(1,164)	2:B:32:ARG:N	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	7	62.99	6.19	62.1
(1,164)	2:B:32:ARG:N	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	7	62.99	6.19	62.1
(1,161)	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	7	62.36	3.26	61.9
(1,161)	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	7	62.36	3.26	61.9
(1,161)	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	7	62.36	3.26	61.9
(1,162)	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	7	57.94	2.7	58.5
(1,162)	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	7	57.94	2.7	58.5
(1,162)	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	7	57.94	2.7	58.5
(1,111)	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	1:A:15:GLN:CD	7	50.29	13.42	55.6
(1,111)	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	1:A:15:GLN:CD	7	50.29	13.42	55.6
(1,111)	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	1:A:15:GLN:CD	7	50.29	13.42	55.6
(1,148)	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	7	47.23	19.34	53.7
(1,148)	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	7	47.23	19.34	53.7
(1,148)	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	7	47.23	19.34	53.7
(1,135)	2:B:11:LEU:CA	2:B:11:LEU:CB	2:B:11:LEU:CG	2:B:11:LEU:CD1	7	45.1	8.08	41.9
(1,135)	2:B:11:LEU:CA	2:B:11:LEU:CB	2:B:11:LEU:CG	2:B:11:LEU:CD1	7	45.1	8.08	41.9
(1,135)	2:B:11:LEU:CA	2:B:11:LEU:CB	2:B:11:LEU:CG	2:B:11:LEU:CD1	7	45.1	8.08	41.9
(1,121)	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	7	27.63	28.02	6.1
(1,121)	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	7	27.63	28.02	6.1

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,121)	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	7	27.63	28.02	6.1
(1,37)	1:A:19:TYR:C	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:C	7	2.96	0.77	2.8
(1,37)	1:A:19:TYR:C	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:C	7	2.96	0.77	2.8
(1,37)	1:A:19:TYR:C	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:C	7	2.96	0.77	2.8
(1,7)	1:A:4:GLU:C	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:C	7	2.51	1.09	2.5
(1,7)	1:A:4:GLU:C	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:C	7	2.51	1.09	2.5
(1,7)	1:A:4:GLU:C	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:C	7	2.51	1.09	2.5
(1,163)	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	2:B:31:LYS:NZ	6	54.23	5.42	55.7
(1,163)	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	2:B:31:LYS:NZ	6	54.23	5.42	55.7
(1,163)	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	2:B:31:LYS:NZ	6	54.23	5.42	55.7
(1,165)	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	2:B:32:ARG:CD	6	50.08	25.6	60.15
(1,165)	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	2:B:32:ARG:CD	6	50.08	25.6	60.15
(1,165)	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	2:B:32:ARG:CD	6	50.08	25.6	60.15
(1,122)	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	1:A:21:LYS:NZ	6	45.32	16.49	53.55
(1,122)	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	1:A:21:LYS:NZ	6	45.32	16.49	53.55
(1,122)	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	1:A:21:LYS:NZ	6	45.32	16.49	53.55
(1,149)	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	6	37.2	23.9	45.65
(1,149)	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	6	37.2	23.9	45.65
(1,149)	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	6	37.2	23.9	45.65
(1,120)	1:A:21:LYS:CA	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	6	19.73	15.71	19.3
(1,120)	1:A:21:LYS:CA	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	6	19.73	15.71	19.3
(1,120)	1:A:21:LYS:CA	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	6	19.73	15.71	19.3
(1,39)	1:A:20:CYS:C	1:A:21:LYS:N	1:A:21:LYS:CA	1:A:21:LYS:C	5	60.12	44.4	95.2
(1,39)	1:A:20:CYS:C	1:A:21:LYS:N	1:A:21:LYS:CA	1:A:21:LYS:C	5	60.12	44.4	95.2
(1,39)	1:A:20:CYS:C	1:A:21:LYS:N	1:A:21:LYS:CA	1:A:21:LYS:C	5	60.12	44.4	95.2
(1,126)	2:B:4:GLN:N	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	5	52.36	7.1	54.1
(1,126)	2:B:4:GLN:N	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	5	52.36	7.1	54.1
(1,126)	2:B:4:GLN:N	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	5	52.36	7.1	54.1
(1,137)	2:B:13:GLU:N	2:B:13:GLU:CA	2:B:13:GLU:CB	2:B:13:GLU:CG	5	46.42	2.96	45.1
(1,137)	2:B:13:GLU:N	2:B:13:GLU:CA	2:B:13:GLU:CB	2:B:13:GLU:CG	5	46.42	2.96	45.1
(1,137)	2:B:13:GLU:N	2:B:13:GLU:CA	2:B:13:GLU:CB	2:B:13:GLU:CG	5	46.42	2.96	45.1
(1,87)	2:B:29:LYS:C	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:C	5	19.9	32.55	3.0
(1,87)	2:B:29:LYS:C	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:C	5	19.9	32.55	3.0
(1,87)	2:B:29:LYS:C	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:C	5	19.9	32.55	3.0
(1,89)	2:B:30:THR:C	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:C	4	68.35	38.08	90.15
(1,89)	2:B:30:THR:C	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:C	4	68.35	38.08	90.15
(1,89)	2:B:30:THR:C	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:C	4	68.35	38.08	90.15
(1,113)	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	1:A:16:LEU:CD1	4	62.72	12.76	68.05
(1,113)	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	1:A:16:LEU:CD1	4	62.72	12.76	68.05
(1,113)	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	1:A:16:LEU:CD1	4	62.72	12.76	68.05
(1,158)	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	2:B:29:LYS:NZ	4	55.08	4.06	53.5
(1,158)	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	2:B:29:LYS:NZ	4	55.08	4.06	53.5
(1,158)	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	2:B:29:LYS:NZ	4	55.08	4.06	53.5
(1,97)	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:CB	1:A:5:GLN:CG	4	54.05	4.44	53.35
(1,97)	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:CB	1:A:5:GLN:CG	4	54.05	4.44	53.35
(1,97)	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:CB	1:A:5:GLN:CG	4	54.05	4.44	53.35
(1,146)	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:CB	2:B:21:GLU:CG	4	46.35	23.98	58.9
(1,146)	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:CB	2:B:21:GLU:CG	4	46.35	23.98	58.9
(1,146)	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:CB	2:B:21:GLU:CG	4	46.35	23.98	58.9
(1,105)	1:A:11:CYS:N	1:A:11:CYS:CA	1:A:11:CYS:CB	1:A:11:CYS:SG	4	39.75	5.41	38.5
(1,105)	1:A:11:CYS:N	1:A:11:CYS:CA	1:A:11:CYS:CB	1:A:11:CYS:SG	4	39.75	5.41	38.5

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,105)	1:A:11:CYS:N	1:A:11:CYS:CA	1:A:11:CYS:CB	1:A:11:CYS:SG	4	39.75	5.41	38.5
(1,100)	1:A:7:CYS:N	1:A:7:CYS:CA	1:A:7:CYS:CB	1:A:7:CYS:SG	4	25.08	1.93	25.7
(1,100)	1:A:7:CYS:N	1:A:7:CYS:CA	1:A:7:CYS:CB	1:A:7:CYS:SG	4	25.08	1.93	25.7
(1,100)	1:A:7:CYS:N	1:A:7:CYS:CA	1:A:7:CYS:CB	1:A:7:CYS:SG	4	25.08	1.93	25.7
(1,147)	2:B:21:GLU:CA	2:B:21:GLU:CB	2:B:21:GLU:CG	2:B:21:GLU:CD	4	24.08	14.65	24.5
(1,147)	2:B:21:GLU:CA	2:B:21:GLU:CB	2:B:21:GLU:CG	2:B:21:GLU:CD	4	24.08	14.65	24.5
(1,147)	2:B:21:GLU:CA	2:B:21:GLU:CB	2:B:21:GLU:CG	2:B:21:GLU:CD	4	24.08	14.65	24.5
(1,152)	2:B:25:PHE:N	2:B:25:PHE:CA	2:B:25:PHE:CB	2:B:25:PHE:CG	4	13.95	4.09	13.25
(1,152)	2:B:25:PHE:N	2:B:25:PHE:CA	2:B:25:PHE:CB	2:B:25:PHE:CG	4	13.95	4.09	13.25
(1,152)	2:B:25:PHE:N	2:B:25:PHE:CA	2:B:25:PHE:CB	2:B:25:PHE:CG	4	13.95	4.09	13.25
(1,77)	2:B:21:GLU:C	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:C	4	5.72	2.89	6.4
(1,77)	2:B:21:GLU:C	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:C	4	5.72	2.89	6.4
(1,77)	2:B:21:GLU:C	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:C	4	5.72	2.89	6.4
(1,1)	1:A:1:GLY:C	1:A:2:ILE:N	1:A:2:ILE:CA	1:A:2:ILE:C	4	1.32	0.25	1.25
(1,1)	1:A:1:GLY:C	1:A:2:ILE:N	1:A:2:ILE:CA	1:A:2:ILE:C	4	1.32	0.25	1.25
(1,1)	1:A:1:GLY:C	1:A:2:ILE:N	1:A:2:ILE:CA	1:A:2:ILE:C	4	1.32	0.25	1.25
(1,85)	2:B:28:PRO:C	2:B:29:LYS:N	2:B:29:LYS:CA	2:B:29:LYS:C	3	89.8	9.99	88.8
(1,85)	2:B:28:PRO:C	2:B:29:LYS:N	2:B:29:LYS:CA	2:B:29:LYS:C	3	89.8	9.99	88.8
(1,85)	2:B:28:PRO:C	2:B:29:LYS:N	2:B:29:LYS:CA	2:B:29:LYS:C	3	89.8	9.99	88.8
(1,41)	2:B:1:PHE:C	2:B:2:VAL:N	2:B:2:VAL:CA	2:B:2:VAL:C	3	88.97	1.35	88.5
(1,41)	2:B:1:PHE:C	2:B:2:VAL:N	2:B:2:VAL:CA	2:B:2:VAL:C	3	88.97	1.35	88.5
(1,41)	2:B:1:PHE:C	2:B:2:VAL:N	2:B:2:VAL:CA	2:B:2:VAL:C	3	88.97	1.35	88.5
(1,124)	2:B:2:VAL:N	2:B:2:VAL:CA	2:B:2:VAL:CB	2:B:2:VAL:CG1	3	77.77	8.45	73.3
(1,124)	2:B:2:VAL:N	2:B:2:VAL:CA	2:B:2:VAL:CB	2:B:2:VAL:CG1	3	77.77	8.45	73.3
(1,124)	2:B:2:VAL:N	2:B:2:VAL:CA	2:B:2:VAL:CB	2:B:2:VAL:CG1	3	77.77	8.45	73.3
(1,104)	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	1:A:10:ILE:CD1	3	59.1	1.91	57.8
(1,104)	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	1:A:10:ILE:CD1	3	59.1	1.91	57.8
(1,104)	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	1:A:10:ILE:CD1	3	59.1	1.91	57.8
(1,166)	2:B:32:ARG:CB	2:B:32:ARG:CG	2:B:32:ARG:CD	2:B:32:ARG:NE	3	52.23	9.53	50.7
(1,166)	2:B:32:ARG:CB	2:B:32:ARG:CG	2:B:32:ARG:CD	2:B:32:ARG:NE	3	52.23	9.53	50.7
(1,166)	2:B:32:ARG:CB	2:B:32:ARG:CG	2:B:32:ARG:CD	2:B:32:ARG:NE	3	52.23	9.53	50.7
(1,106)	1:A:12:SER:N	1:A:12:SER:CA	1:A:12:SER:CB	1:A:12:SER:OG	3	50.17	12.38	56.9
(1,106)	1:A:12:SER:N	1:A:12:SER:CA	1:A:12:SER:CB	1:A:12:SER:OG	3	50.17	12.38	56.9
(1,106)	1:A:12:SER:N	1:A:12:SER:CA	1:A:12:SER:CB	1:A:12:SER:OG	3	50.17	12.38	56.9
(1,98)	1:A:5:GLN:CA	1:A:5:GLN:CB	1:A:5:GLN:CG	1:A:5:GLN:CD	3	30.1	7.84	25.8
(1,98)	1:A:5:GLN:CA	1:A:5:GLN:CB	1:A:5:GLN:CG	1:A:5:GLN:CD	3	30.1	7.84	25.8
(1,98)	1:A:5:GLN:CA	1:A:5:GLN:CB	1:A:5:GLN:CG	1:A:5:GLN:CD	3	30.1	7.84	25.8
(1,93)	1:A:2:ILE:CA	1:A:2:ILE:CB	1:A:2:ILE:CG1	1:A:2:ILE:CD1	3	21.9	14.11	29.7
(1,93)	1:A:2:ILE:CA	1:A:2:ILE:CB	1:A:2:ILE:CG1	1:A:2:ILE:CD1	3	21.9	14.11	29.7
(1,93)	1:A:2:ILE:CA	1:A:2:ILE:CB	1:A:2:ILE:CG1	1:A:2:ILE:CD1	3	21.9	14.11	29.7
(1,83)	2:B:25:PHE:C	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:C	2	97.75	4.45	97.75
(1,83)	2:B:25:PHE:C	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:C	2	97.75	4.45	97.75
(1,83)	2:B:25:PHE:C	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:C	2	97.75	4.45	97.75
(1,43)	2:B:2:VAL:C	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:C	2	93.35	1.65	93.35
(1,43)	2:B:2:VAL:C	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:C	2	93.35	1.65	93.35
(1,43)	2:B:2:VAL:C	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:C	2	93.35	1.65	93.35
(1,47)	2:B:4:GLN:C	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:C	2	55.95	49.05	55.95
(1,47)	2:B:4:GLN:C	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:C	2	55.95	49.05	55.95
(1,47)	2:B:4:GLN:C	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:C	2	55.95	49.05	55.95
(1,130)	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	2:B:6:LEU:CD1	2	51.35	24.05	51.35
(1,130)	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	2:B:6:LEU:CD1	2	51.35	24.05	51.35

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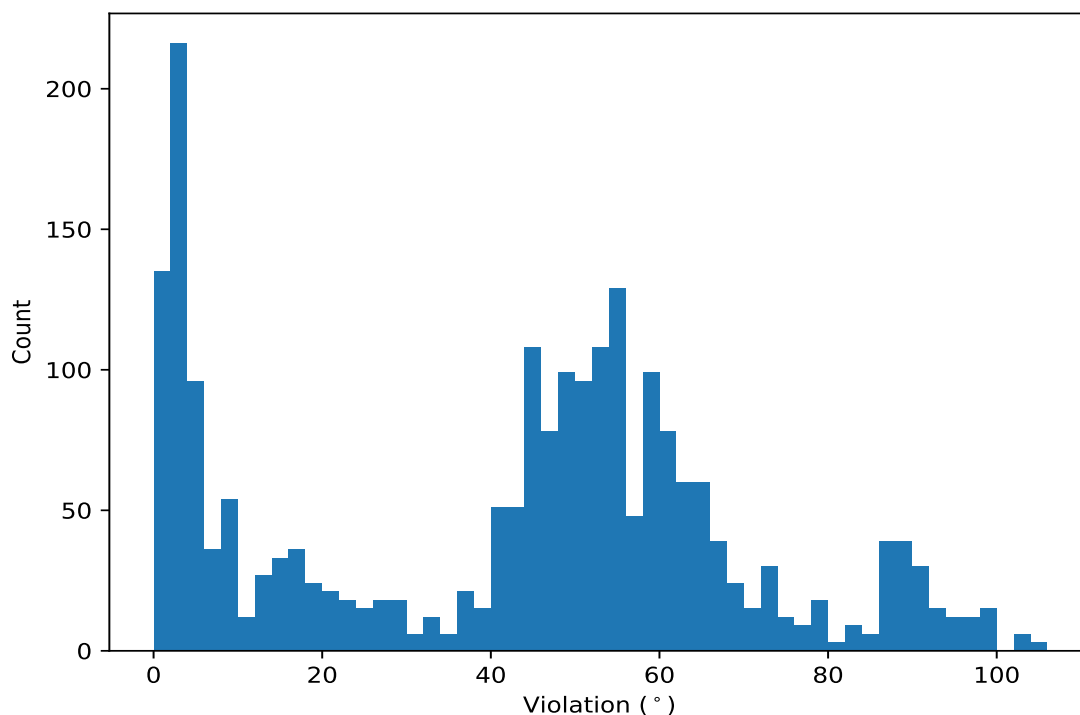
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,130)	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	2:B:6:LEU:CD1	2	51.35	24.05	51.35
(1,138)	2:B:13:GLU:CA	2:B:13:GLU:CB	2:B:13:GLU:CG	2:B:13:GLU:CD	2	49.25	0.45	49.25
(1,138)	2:B:13:GLU:CA	2:B:13:GLU:CB	2:B:13:GLU:CG	2:B:13:GLU:CD	2	49.25	0.45	49.25
(1,138)	2:B:13:GLU:CA	2:B:13:GLU:CB	2:B:13:GLU:CG	2:B:13:GLU:CD	2	49.25	0.45	49.25
(1,143)	2:B:17:LEU:CA	2:B:17:LEU:CB	2:B:17:LEU:CG	2:B:17:LEU:CD1	2	43.7	0.0	43.7
(1,143)	2:B:17:LEU:CA	2:B:17:LEU:CB	2:B:17:LEU:CG	2:B:17:LEU:CD1	2	43.7	0.0	43.7
(1,143)	2:B:17:LEU:CA	2:B:17:LEU:CB	2:B:17:LEU:CG	2:B:17:LEU:CD1	2	43.7	0.0	43.7
(1,115)	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	1:A:17:GLU:CD	2	41.45	0.25	41.45
(1,115)	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	1:A:17:GLU:CD	2	41.45	0.25	41.45
(1,115)	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	1:A:17:GLU:CD	2	41.45	0.25	41.45
(1,119)	1:A:21:LYS:N	1:A:21:LYS:CA	1:A:21:LYS:CB	1:A:21:LYS:CG	2	31.8	22.9	31.8
(1,119)	1:A:21:LYS:N	1:A:21:LYS:CA	1:A:21:LYS:CB	1:A:21:LYS:CG	2	31.8	22.9	31.8
(1,119)	1:A:21:LYS:N	1:A:21:LYS:CA	1:A:21:LYS:CB	1:A:21:LYS:CG	2	31.8	22.9	31.8
(1,155)	2:B:29:LYS:N	2:B:29:LYS:CA	2:B:29:LYS:CB	2:B:29:LYS:CG	2	28.65	26.75	28.65
(1,155)	2:B:29:LYS:N	2:B:29:LYS:CA	2:B:29:LYS:CB	2:B:29:LYS:CG	2	28.65	26.75	28.65
(1,155)	2:B:29:LYS:N	2:B:29:LYS:CA	2:B:29:LYS:CB	2:B:29:LYS:CG	2	28.65	26.75	28.65
(1,156)	2:B:29:LYS:CA	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	2	26.35	24.55	26.35
(1,156)	2:B:29:LYS:CA	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	2	26.35	24.55	26.35
(1,156)	2:B:29:LYS:CA	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	2	26.35	24.55	26.35
(1,92)	1:A:2:ILE:N	1:A:2:ILE:CA	1:A:2:ILE:CB	1:A:2:ILE:CG1	2	15.35	6.65	15.35
(1,92)	1:A:2:ILE:N	1:A:2:ILE:CA	1:A:2:ILE:CB	1:A:2:ILE:CG1	2	15.35	6.65	15.35
(1,92)	1:A:2:ILE:N	1:A:2:ILE:CA	1:A:2:ILE:CB	1:A:2:ILE:CG1	2	15.35	6.65	15.35
(1,25)	1:A:13:LEU:C	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:C	2	1.8	0.5	1.8
(1,25)	1:A:13:LEU:C	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:C	2	1.8	0.5	1.8
(1,25)	1:A:13:LEU:C	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:C	2	1.8	0.5	1.8
(1,55)	2:B:9:SER:C	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:C	2	1.2	0.0	1.2
(1,55)	2:B:9:SER:C	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:C	2	1.2	0.0	1.2
(1,55)	2:B:9:SER:C	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:C	2	1.2	0.0	1.2

¹ Number of violated models, ²Standard deviation, All angle values are in degree (°)

10.5 All violated dihedral-angle restraints [i](#)

10.5.1 Histogram : Distribution of violations [i](#)

The following histogram shows the distribution of the absolute value of the violation for all violated restraints in the ensemble.



10.5.2 Table: All violated dihedral-angle restraints [i](#)

The following table lists the absolute value of the violation for each restraint in the ensemble sorted by its value. The Key (restraint list ID, restraint ID) is the unique identifier for a given restraint.

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,47)	2:B:4:GLN:C	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:C	14	105.0
(1,47)	2:B:4:GLN:C	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:C	14	105.0
(1,47)	2:B:4:GLN:C	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:C	14	105.0
(1,85)	2:B:28:PRO:C	2:B:29:LYS:N	2:B:29:LYS:CA	2:B:29:LYS:C	17	102.5
(1,85)	2:B:28:PRO:C	2:B:29:LYS:N	2:B:29:LYS:CA	2:B:29:LYS:C	17	102.5
(1,85)	2:B:28:PRO:C	2:B:29:LYS:N	2:B:29:LYS:CA	2:B:29:LYS:C	17	102.5
(1,83)	2:B:25:PHE:C	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:C	16	102.2
(1,83)	2:B:25:PHE:C	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:C	16	102.2
(1,83)	2:B:25:PHE:C	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:C	16	102.2
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	6	99.6
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	6	99.6
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	6	99.6
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	8	99.2
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	8	99.2
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	8	99.2
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	2	98.7
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	2	98.7
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	2	98.7
(1,19)	1:A:10:ILE:C	1:A:11:CYS:N	1:A:11:CYS:CA	1:A:11:CYS:C	11	98.3
(1,19)	1:A:10:ILE:C	1:A:11:CYS:N	1:A:11:CYS:CA	1:A:11:CYS:C	11	98.3
(1,19)	1:A:10:ILE:C	1:A:11:CYS:N	1:A:11:CYS:CA	1:A:11:CYS:C	11	98.3

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	20	98.0
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	20	98.0
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	20	98.0
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	11	97.9
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	11	97.9
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	11	97.9
(1,39)	1:A:20:CYS:C	1:A:21:LYS:N	1:A:21:LYS:CA	1:A:21:LYS:C	13	97.2
(1,39)	1:A:20:CYS:C	1:A:21:LYS:N	1:A:21:LYS:CA	1:A:21:LYS:C	13	97.2
(1,39)	1:A:20:CYS:C	1:A:21:LYS:N	1:A:21:LYS:CA	1:A:21:LYS:C	13	97.2
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	3	97.1
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	3	97.1
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	3	97.1
(1,39)	1:A:20:CYS:C	1:A:21:LYS:N	1:A:21:LYS:CA	1:A:21:LYS:C	4	96.7
(1,39)	1:A:20:CYS:C	1:A:21:LYS:N	1:A:21:LYS:CA	1:A:21:LYS:C	4	96.7
(1,39)	1:A:20:CYS:C	1:A:21:LYS:N	1:A:21:LYS:CA	1:A:21:LYS:C	4	96.7
(1,39)	1:A:20:CYS:C	1:A:21:LYS:N	1:A:21:LYS:CA	1:A:21:LYS:C	9	95.2
(1,39)	1:A:20:CYS:C	1:A:21:LYS:N	1:A:21:LYS:CA	1:A:21:LYS:C	9	95.2
(1,39)	1:A:20:CYS:C	1:A:21:LYS:N	1:A:21:LYS:CA	1:A:21:LYS:C	9	95.2
(1,43)	2:B:2:VAL:C	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:C	6	95.0
(1,43)	2:B:2:VAL:C	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:C	6	95.0
(1,43)	2:B:2:VAL:C	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:C	6	95.0
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	18	94.7
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	18	94.7
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	18	94.7
(1,91)	2:B:31:LYS:C	2:B:32:ARG:N	2:B:32:ARG:CA	2:B:32:ARG:C	5	94.3
(1,91)	2:B:31:LYS:C	2:B:32:ARG:N	2:B:32:ARG:CA	2:B:32:ARG:C	5	94.3
(1,91)	2:B:31:LYS:C	2:B:32:ARG:N	2:B:32:ARG:CA	2:B:32:ARG:C	5	94.3
(1,83)	2:B:25:PHE:C	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:C	17	93.3
(1,83)	2:B:25:PHE:C	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:C	17	93.3
(1,83)	2:B:25:PHE:C	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:C	17	93.3
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	7	93.1
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	7	93.1
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	7	93.1
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	9	92.9
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	9	92.9
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	9	92.9
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	2	92.4
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	2	92.4
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	2	92.4
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	8	92.0
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	8	92.0
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	8	92.0
(1,43)	2:B:2:VAL:C	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:C	5	91.7
(1,43)	2:B:2:VAL:C	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:C	5	91.7
(1,43)	2:B:2:VAL:C	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:C	5	91.7
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	5	91.4
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	5	91.4
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	5	91.4
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	20	91.2
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	20	91.2
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	20	91.2

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,41)	2:B:1:PHE:C	2:B:2:VAL:N	2:B:2:VAL:CA	2:B:2:VAL:C	15	90.8
(1,41)	2:B:1:PHE:C	2:B:2:VAL:N	2:B:2:VAL:CA	2:B:2:VAL:C	15	90.8
(1,41)	2:B:1:PHE:C	2:B:2:VAL:N	2:B:2:VAL:CA	2:B:2:VAL:C	15	90.8
(1,89)	2:B:30:THR:C	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:C	17	90.7
(1,89)	2:B:30:THR:C	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:C	17	90.7
(1,89)	2:B:30:THR:C	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:C	17	90.7
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	1	90.7
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	1	90.7
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	1	90.7
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	17	90.3
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	17	90.3
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	17	90.3
(1,89)	2:B:30:THR:C	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:C	14	90.2
(1,89)	2:B:30:THR:C	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:C	14	90.2
(1,89)	2:B:30:THR:C	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:C	14	90.2
(1,89)	2:B:30:THR:C	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:C	8	90.1
(1,89)	2:B:30:THR:C	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:C	8	90.1
(1,89)	2:B:30:THR:C	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:C	8	90.1
(1,154)	2:B:27:THR:N	2:B:27:THR:CA	2:B:27:THR:CB	2:B:27:THR:OG1	20	90.0
(1,154)	2:B:27:THR:N	2:B:27:THR:CA	2:B:27:THR:CB	2:B:27:THR:OG1	20	90.0
(1,154)	2:B:27:THR:N	2:B:27:THR:CA	2:B:27:THR:CB	2:B:27:THR:OG1	20	90.0
(1,154)	2:B:27:THR:N	2:B:27:THR:CA	2:B:27:THR:CB	2:B:27:THR:OG1	5	89.9
(1,154)	2:B:27:THR:N	2:B:27:THR:CA	2:B:27:THR:CB	2:B:27:THR:OG1	5	89.9
(1,154)	2:B:27:THR:N	2:B:27:THR:CA	2:B:27:THR:CB	2:B:27:THR:OG1	5	89.9
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	13	89.7
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	13	89.7
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	13	89.7
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	7	89.6
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	7	89.6
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	7	89.6
(1,124)	2:B:2:VAL:N	2:B:2:VAL:CA	2:B:2:VAL:CB	2:B:2:VAL:CG1	13	89.6
(1,124)	2:B:2:VAL:N	2:B:2:VAL:CA	2:B:2:VAL:CB	2:B:2:VAL:CG1	13	89.6
(1,124)	2:B:2:VAL:N	2:B:2:VAL:CA	2:B:2:VAL:CB	2:B:2:VAL:CG1	13	89.6
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	5	89.5
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	5	89.5
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	5	89.5
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	17	89.3
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	17	89.3
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	17	89.3
(1,154)	2:B:27:THR:N	2:B:27:THR:CA	2:B:27:THR:CB	2:B:27:THR:OG1	7	89.1
(1,154)	2:B:27:THR:N	2:B:27:THR:CA	2:B:27:THR:CB	2:B:27:THR:OG1	7	89.1
(1,154)	2:B:27:THR:N	2:B:27:THR:CA	2:B:27:THR:CB	2:B:27:THR:OG1	7	89.1
(1,154)	2:B:27:THR:N	2:B:27:THR:CA	2:B:27:THR:CB	2:B:27:THR:OG1	19	89.0
(1,154)	2:B:27:THR:N	2:B:27:THR:CA	2:B:27:THR:CB	2:B:27:THR:OG1	19	89.0
(1,154)	2:B:27:THR:N	2:B:27:THR:CA	2:B:27:THR:CB	2:B:27:THR:OG1	19	89.0
(1,85)	2:B:28:PRO:C	2:B:29:LYS:N	2:B:29:LYS:CA	2:B:29:LYS:C	10	88.8
(1,85)	2:B:28:PRO:C	2:B:29:LYS:N	2:B:29:LYS:CA	2:B:29:LYS:C	10	88.8
(1,85)	2:B:28:PRO:C	2:B:29:LYS:N	2:B:29:LYS:CA	2:B:29:LYS:C	10	88.8
(1,159)	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:CB	2:B:30:THR:OG1	20	88.8
(1,159)	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:CB	2:B:30:THR:OG1	20	88.8
(1,159)	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:CB	2:B:30:THR:OG1	20	88.8

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	19	88.6
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	19	88.6
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	19	88.6
(1,41)	2:B:1:PHE:C	2:B:2:VAL:N	2:B:2:VAL:CA	2:B:2:VAL:C	13	88.5
(1,41)	2:B:1:PHE:C	2:B:2:VAL:N	2:B:2:VAL:CA	2:B:2:VAL:C	13	88.5
(1,41)	2:B:1:PHE:C	2:B:2:VAL:N	2:B:2:VAL:CA	2:B:2:VAL:C	13	88.5
(1,154)	2:B:27:THR:N	2:B:27:THR:CA	2:B:27:THR:CB	2:B:27:THR:OG1	1	88.2
(1,154)	2:B:27:THR:N	2:B:27:THR:CA	2:B:27:THR:CB	2:B:27:THR:OG1	1	88.2
(1,154)	2:B:27:THR:N	2:B:27:THR:CA	2:B:27:THR:CB	2:B:27:THR:OG1	1	88.2
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	12	87.9
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	12	87.9
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	12	87.9
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	16	87.6
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	16	87.6
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	16	87.6
(1,41)	2:B:1:PHE:C	2:B:2:VAL:N	2:B:2:VAL:CA	2:B:2:VAL:C	8	87.6
(1,41)	2:B:1:PHE:C	2:B:2:VAL:N	2:B:2:VAL:CA	2:B:2:VAL:C	8	87.6
(1,41)	2:B:1:PHE:C	2:B:2:VAL:N	2:B:2:VAL:CA	2:B:2:VAL:C	8	87.6
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	14	87.5
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	14	87.5
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	14	87.5
(1,159)	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:CB	2:B:30:THR:OG1	18	87.4
(1,159)	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:CB	2:B:30:THR:OG1	18	87.4
(1,159)	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:CB	2:B:30:THR:OG1	18	87.4
(1,154)	2:B:27:THR:N	2:B:27:THR:CA	2:B:27:THR:CB	2:B:27:THR:OG1	4	87.1
(1,154)	2:B:27:THR:N	2:B:27:THR:CA	2:B:27:THR:CB	2:B:27:THR:OG1	4	87.1
(1,154)	2:B:27:THR:N	2:B:27:THR:CA	2:B:27:THR:CB	2:B:27:THR:OG1	4	87.1
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	14	87.0
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	14	87.0
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	14	87.0
(1,154)	2:B:27:THR:N	2:B:27:THR:CA	2:B:27:THR:CB	2:B:27:THR:OG1	8	86.8
(1,154)	2:B:27:THR:N	2:B:27:THR:CA	2:B:27:THR:CB	2:B:27:THR:OG1	8	86.8
(1,154)	2:B:27:THR:N	2:B:27:THR:CA	2:B:27:THR:CB	2:B:27:THR:OG1	8	86.8
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	15	86.6
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	15	86.6
(1,75)	2:B:20:GLY:C	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:C	15	86.6
(1,154)	2:B:27:THR:N	2:B:27:THR:CA	2:B:27:THR:CB	2:B:27:THR:OG1	13	86.5
(1,154)	2:B:27:THR:N	2:B:27:THR:CA	2:B:27:THR:CB	2:B:27:THR:OG1	13	86.5
(1,154)	2:B:27:THR:N	2:B:27:THR:CA	2:B:27:THR:CB	2:B:27:THR:OG1	13	86.5
(1,159)	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:CB	2:B:30:THR:OG1	11	86.2
(1,159)	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:CB	2:B:30:THR:OG1	11	86.2
(1,159)	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:CB	2:B:30:THR:OG1	11	86.2
(1,159)	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:CB	2:B:30:THR:OG1	13	86.2
(1,159)	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:CB	2:B:30:THR:OG1	13	86.2
(1,159)	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:CB	2:B:30:THR:OG1	13	86.2
(1,159)	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:CB	2:B:30:THR:OG1	7	86.0
(1,159)	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:CB	2:B:30:THR:OG1	7	86.0
(1,159)	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:CB	2:B:30:THR:OG1	7	86.0
(1,87)	2:B:29:LYS:C	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:C	18	84.8
(1,87)	2:B:29:LYS:C	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:C	18	84.8
(1,87)	2:B:29:LYS:C	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:C	18	84.8

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	18	84.0
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	18	84.0
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	18	84.0
(1,159)	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:CB	2:B:30:THR:OG1	10	83.9
(1,159)	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:CB	2:B:30:THR:OG1	10	83.9
(1,159)	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:CB	2:B:30:THR:OG1	10	83.9
(1,154)	2:B:27:THR:N	2:B:27:THR:CA	2:B:27:THR:CB	2:B:27:THR:OG1	2	83.4
(1,154)	2:B:27:THR:N	2:B:27:THR:CA	2:B:27:THR:CB	2:B:27:THR:OG1	2	83.4
(1,154)	2:B:27:THR:N	2:B:27:THR:CA	2:B:27:THR:CB	2:B:27:THR:OG1	2	83.4
(1,131)	2:B:7:CYS:N	2:B:7:CYS:CA	2:B:7:CYS:CB	2:B:7:CYS:SG	10	82.4
(1,131)	2:B:7:CYS:N	2:B:7:CYS:CA	2:B:7:CYS:CB	2:B:7:CYS:SG	10	82.4
(1,131)	2:B:7:CYS:N	2:B:7:CYS:CA	2:B:7:CYS:CB	2:B:7:CYS:SG	10	82.4
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	10	80.8
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	10	80.8
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	10	80.8
(1,159)	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:CB	2:B:30:THR:OG1	12	79.3
(1,159)	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:CB	2:B:30:THR:OG1	12	79.3
(1,159)	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:CB	2:B:30:THR:OG1	12	79.3
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	5	79.2
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	5	79.2
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	5	79.2
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	14	78.8
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	14	78.8
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	14	78.8
(1,85)	2:B:28:PRO:C	2:B:29:LYS:N	2:B:29:LYS:CA	2:B:29:LYS:C	8	78.1
(1,85)	2:B:28:PRO:C	2:B:29:LYS:N	2:B:29:LYS:CA	2:B:29:LYS:C	8	78.1
(1,85)	2:B:28:PRO:C	2:B:29:LYS:N	2:B:29:LYS:CA	2:B:29:LYS:C	8	78.1
(1,165)	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	2:B:32:ARG:CD	11	78.0
(1,165)	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	2:B:32:ARG:CD	11	78.0
(1,165)	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	2:B:32:ARG:CD	11	78.0
(1,159)	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:CB	2:B:30:THR:OG1	8	78.0
(1,159)	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:CB	2:B:30:THR:OG1	8	78.0
(1,159)	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:CB	2:B:30:THR:OG1	8	78.0
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	3	76.8
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	3	76.8
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	3	76.8
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	8	76.4
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	8	76.4
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	8	76.4
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	5	76.0
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	5	76.0
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	5	76.0
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	4	75.6
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	4	75.6
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	4	75.6
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	8	75.6
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	8	75.6
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	8	75.6
(1,164)	2:B:32:ARG:N	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	11	75.4
(1,164)	2:B:32:ARG:N	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	11	75.4
(1,164)	2:B:32:ARG:N	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	11	75.4

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,130)	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	2:B:6:LEU:CD1	16	75.4
(1,130)	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	2:B:6:LEU:CD1	16	75.4
(1,130)	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	2:B:6:LEU:CD1	16	75.4
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	14	73.9
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	14	73.9
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	14	73.9
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	20	73.9
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	20	73.9
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	20	73.9
(1,113)	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	1:A:16:LEU:CD1	20	73.8
(1,113)	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	1:A:16:LEU:CD1	20	73.8
(1,113)	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	1:A:16:LEU:CD1	20	73.8
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	10	73.7
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	10	73.7
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	10	73.7
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	11	73.7
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	11	73.7
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	11	73.7
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	11	73.4
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	11	73.4
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	11	73.4
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	17	73.4
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	17	73.4
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	17	73.4
(1,124)	2:B:2:VAL:N	2:B:2:VAL:CA	2:B:2:VAL:CB	2:B:2:VAL:CG1	5	73.3
(1,124)	2:B:2:VAL:N	2:B:2:VAL:CA	2:B:2:VAL:CB	2:B:2:VAL:CG1	5	73.3
(1,124)	2:B:2:VAL:N	2:B:2:VAL:CA	2:B:2:VAL:CB	2:B:2:VAL:CG1	5	73.3
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	6	73.1
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	6	73.1
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	6	73.1
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	19	72.0
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	19	72.0
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	19	72.0
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	19	71.8
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	19	71.8
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	19	71.8
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	4	71.4
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	4	71.4
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	4	71.4
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	6	71.2
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	6	71.2
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	6	71.2
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	16	71.1
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	16	71.1
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	16	71.1
(1,124)	2:B:2:VAL:N	2:B:2:VAL:CA	2:B:2:VAL:CB	2:B:2:VAL:CG1	10	70.4
(1,124)	2:B:2:VAL:N	2:B:2:VAL:CA	2:B:2:VAL:CB	2:B:2:VAL:CG1	10	70.4
(1,124)	2:B:2:VAL:N	2:B:2:VAL:CA	2:B:2:VAL:CB	2:B:2:VAL:CG1	10	70.4
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	12	69.6
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	12	69.6
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	12	69.6

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	18	69.5
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	18	69.5
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	18	69.5
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	9	69.1
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	9	69.1
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	9	69.1
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	9	68.8
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	9	68.8
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	9	68.8
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	17	68.7
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	17	68.7
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	17	68.7
(1,150)	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	2:B:22:ARG:NE	5	68.5
(1,150)	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	2:B:22:ARG:NE	5	68.5
(1,150)	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	2:B:22:ARG:NE	5	68.5
(1,113)	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	1:A:16:LEU:CD1	17	68.3
(1,113)	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	1:A:16:LEU:CD1	17	68.3
(1,113)	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	1:A:16:LEU:CD1	17	68.3
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	2	68.2
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	2	68.2
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	2	68.2
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	2	67.9
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	2	67.9
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	2	67.9
(1,113)	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	1:A:16:LEU:CD1	7	67.8
(1,113)	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	1:A:16:LEU:CD1	7	67.8
(1,113)	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	1:A:16:LEU:CD1	7	67.8
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	10	67.8
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	10	67.8
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	10	67.8
(1,148)	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	9	67.3
(1,148)	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	9	67.3
(1,148)	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	9	67.3
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	4	67.3
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	4	67.3
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	4	67.3
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	3	67.3
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	3	67.3
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	3	67.3
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	19	67.2
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	19	67.2
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	19	67.2
(1,165)	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	2:B:32:ARG:CD	8	67.0
(1,165)	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	2:B:32:ARG:CD	8	67.0
(1,165)	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	2:B:32:ARG:CD	8	67.0
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	14	66.7
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	14	66.7
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	14	66.7
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	17	66.5
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	17	66.5
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	17	66.5

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,161)	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	8	66.2
(1,161)	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	8	66.2
(1,161)	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	8	66.2
(1,121)	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	2	66.2
(1,121)	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	2	66.2
(1,121)	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	2	66.2
(1,127)	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	2:B:4:GLN:CD	14	66.0
(1,127)	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	2:B:4:GLN:CD	14	66.0
(1,127)	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	2:B:4:GLN:CD	14	66.0
(1,161)	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	2	65.6
(1,161)	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	2	65.6
(1,161)	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	2	65.6
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	12	65.5
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	12	65.5
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	12	65.5
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	15	65.4
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	15	65.4
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	15	65.4
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	6	65.3
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	6	65.3
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	6	65.3
(1,161)	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	19	65.2
(1,161)	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	19	65.2
(1,161)	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	19	65.2
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	11	65.1
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	11	65.1
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	11	65.1
(1,164)	2:B:32:ARG:N	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	6	65.0
(1,164)	2:B:32:ARG:N	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	6	65.0
(1,164)	2:B:32:ARG:N	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	6	65.0
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	6	65.0
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	6	65.0
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	6	65.0
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	16	64.7
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	16	64.7
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	16	64.7
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	9	64.7
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	9	64.7
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	9	64.7
(1,135)	2:B:11:LEU:CA	2:B:11:LEU:CB	2:B:11:LEU:CG	2:B:11:LEU:CD1	15	64.7
(1,135)	2:B:11:LEU:CA	2:B:11:LEU:CB	2:B:11:LEU:CG	2:B:11:LEU:CD1	15	64.7
(1,135)	2:B:11:LEU:CA	2:B:11:LEU:CB	2:B:11:LEU:CG	2:B:11:LEU:CD1	15	64.7
(1,166)	2:B:32:ARG:CB	2:B:32:ARG:CG	2:B:32:ARG:CD	2:B:32:ARG:NE	11	64.6
(1,166)	2:B:32:ARG:CB	2:B:32:ARG:CG	2:B:32:ARG:CD	2:B:32:ARG:NE	11	64.6
(1,166)	2:B:32:ARG:CB	2:B:32:ARG:CG	2:B:32:ARG:CD	2:B:32:ARG:NE	11	64.6
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	2	64.6
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	2	64.6
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	2	64.6
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	3	64.5
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	3	64.5
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	3	64.5

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	3	64.5
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	3	64.5
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	3	64.5
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	14	64.5
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	14	64.5
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	14	64.5
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	14	64.3
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	14	64.3
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	14	64.3
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	6	64.3
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	6	64.3
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	6	64.3
(1,164)	2:B:32:ARG:N	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	12	64.0
(1,164)	2:B:32:ARG:N	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	12	64.0
(1,164)	2:B:32:ARG:N	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	12	64.0
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	10	64.0
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	10	64.0
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	10	64.0
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	14	63.8
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	14	63.8
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	14	63.8
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	2	63.7
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	2	63.7
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	2	63.7
(1,111)	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	1:A:15:GLN:CD	18	63.6
(1,111)	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	1:A:15:GLN:CD	18	63.6
(1,111)	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	1:A:15:GLN:CD	18	63.6
(1,149)	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	9	63.4
(1,149)	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	9	63.4
(1,149)	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	9	63.4
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	2	63.1
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	2	63.1
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	2	63.1
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	7	63.1
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	7	63.1
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	7	63.1
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	16	62.9
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	16	62.9
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	16	62.9
(1,126)	2:B:4:GLN:N	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	14	62.9
(1,126)	2:B:4:GLN:N	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	14	62.9
(1,126)	2:B:4:GLN:N	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	14	62.9
(1,148)	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	18	62.8
(1,148)	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	18	62.8
(1,148)	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	18	62.8
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	10	62.8
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	10	62.8
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	10	62.8
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	16	62.8
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	16	62.8
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	16	62.8

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,162)	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	17	62.7
(1,162)	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	17	62.7
(1,162)	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	17	62.7
(1,146)	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:CB	2:B:21:GLU:CG	14	62.7
(1,146)	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:CB	2:B:21:GLU:CG	14	62.7
(1,146)	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:CB	2:B:21:GLU:CG	14	62.7
(1,157)	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	5	62.5
(1,157)	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	5	62.5
(1,157)	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	5	62.5
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	6	62.5
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	6	62.5
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	6	62.5
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	8	62.5
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	8	62.5
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	8	62.5
(1,165)	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	2:B:32:ARG:CD	12	62.1
(1,165)	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	2:B:32:ARG:CD	12	62.1
(1,165)	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	2:B:32:ARG:CD	12	62.1
(1,164)	2:B:32:ARG:N	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	8	62.1
(1,164)	2:B:32:ARG:N	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	8	62.1
(1,164)	2:B:32:ARG:N	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	8	62.1
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	7	62.1
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	7	62.1
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	7	62.1
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	20	62.1
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	20	62.1
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	20	62.1
(1,161)	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	17	61.9
(1,161)	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	17	61.9
(1,161)	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	17	61.9
(1,158)	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	2:B:29:LYS:NZ	14	61.9
(1,158)	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	2:B:29:LYS:NZ	14	61.9
(1,158)	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	2:B:29:LYS:NZ	14	61.9
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	7	61.8
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	7	61.8
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	7	61.8
(1,104)	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	1:A:10:ILE:CD1	11	61.8
(1,104)	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	1:A:10:ILE:CD1	11	61.8
(1,104)	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	1:A:10:ILE:CD1	11	61.8
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	5	61.7
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	5	61.7
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	5	61.7
(1,164)	2:B:32:ARG:N	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	5	61.6
(1,164)	2:B:32:ARG:N	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	5	61.6
(1,164)	2:B:32:ARG:N	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	5	61.6
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	4	61.6
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	4	61.6
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	4	61.6
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	8	61.6
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	8	61.6
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	8	61.6

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	18	61.5
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	18	61.5
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	18	61.5
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	7	61.3
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	7	61.3
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	7	61.3
(1,150)	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	2:B:22:ARG:NE	6	61.3
(1,150)	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	2:B:22:ARG:NE	6	61.3
(1,150)	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	2:B:22:ARG:NE	6	61.3
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	18	61.3
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	18	61.3
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	18	61.3
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	10	61.0
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	10	61.0
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	10	61.0
(1,106)	1:A:12:SER:N	1:A:12:SER:CA	1:A:12:SER:CB	1:A:12:SER:OG	15	60.8
(1,106)	1:A:12:SER:N	1:A:12:SER:CA	1:A:12:SER:CB	1:A:12:SER:OG	15	60.8
(1,106)	1:A:12:SER:N	1:A:12:SER:CA	1:A:12:SER:CB	1:A:12:SER:OG	15	60.8
(1,161)	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	7	60.7
(1,161)	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	7	60.7
(1,161)	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	7	60.7
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	15	60.6
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	15	60.6
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	15	60.6
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	1	60.5
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	1	60.5
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	1	60.5
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	7	60.5
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	7	60.5
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	7	60.5
(1,97)	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:CB	1:A:5:GLN:CG	7	60.4
(1,97)	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:CB	1:A:5:GLN:CG	7	60.4
(1,97)	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:CB	1:A:5:GLN:CG	7	60.4
(1,161)	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	15	60.4
(1,161)	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	15	60.4
(1,161)	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	15	60.4
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	15	60.2
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	15	60.2
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	15	60.2
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	18	60.1
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	18	60.1
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	18	60.1
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	20	60.1
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	20	60.1
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	5	60.1
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	5	60.1
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	5	60.1
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	7	60.1
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	7	60.1
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	7	60.1

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	13	60.0
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	13	60.0
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	13	60.0
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	12	59.9
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	12	59.9
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	12	59.9
(1,111)	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	1:A:15:GLN:CD	16	59.9
(1,111)	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	1:A:15:GLN:CD	16	59.9
(1,111)	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	1:A:15:GLN:CD	16	59.9
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	15	59.9
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	15	59.9
(1,107)	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:CB	1:A:13:LEU:CG	15	59.9
(1,163)	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	2:B:31:LYS:NZ	8	59.8
(1,163)	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	2:B:31:LYS:NZ	8	59.8
(1,163)	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	2:B:31:LYS:NZ	8	59.8
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	5	59.8
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	5	59.8
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	5	59.8
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	5	59.7
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	5	59.7
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	5	59.7
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	4	59.6
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	4	59.6
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	4	59.6
(1,164)	2:B:32:ARG:N	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	9	59.5
(1,164)	2:B:32:ARG:N	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	9	59.5
(1,164)	2:B:32:ARG:N	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	9	59.5
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	10	59.4
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	10	59.4
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	10	59.4
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	3	59.4
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	3	59.4
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	3	59.4
(1,150)	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	2:B:22:ARG:NE	19	59.1
(1,150)	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	2:B:22:ARG:NE	19	59.1
(1,150)	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	2:B:22:ARG:NE	19	59.1
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	8	59.1
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	8	59.1
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	8	59.1
(1,162)	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	19	59.0
(1,162)	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	19	59.0
(1,162)	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	19	59.0
(1,149)	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	18	59.0
(1,149)	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	18	59.0
(1,149)	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	18	59.0
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	4	59.0
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	4	59.0
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	4	59.0
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	11	59.0
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	11	59.0
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	11	59.0

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,146)	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:CB	2:B:21:GLU:CG	5	58.9
(1,146)	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:CB	2:B:21:GLU:CG	5	58.9
(1,146)	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:CB	2:B:21:GLU:CG	5	58.9
(1,146)	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:CB	2:B:21:GLU:CG	17	58.9
(1,146)	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:CB	2:B:21:GLU:CG	17	58.9
(1,146)	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:CB	2:B:21:GLU:CG	17	58.9
(1,127)	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	2:B:4:GLN:CD	17	58.9
(1,127)	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	2:B:4:GLN:CD	17	58.9
(1,127)	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	2:B:4:GLN:CD	17	58.9
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	20	58.9
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	20	58.9
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	20	58.9
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	15	58.7
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	15	58.7
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	15	58.7
(1,121)	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	10	58.6
(1,121)	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	10	58.6
(1,121)	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	10	58.6
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	18	58.6
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	18	58.6
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	18	58.6
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	17	58.5
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	17	58.5
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	17	58.5
(1,162)	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	7	58.5
(1,162)	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	7	58.5
(1,162)	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	7	58.5
(1,162)	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	14	58.5
(1,162)	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	14	58.5
(1,162)	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	14	58.5
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	6	58.5
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	6	58.5
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	6	58.5
(1,165)	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	2:B:32:ARG:CD	9	58.2
(1,165)	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	2:B:32:ARG:CD	9	58.2
(1,165)	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	2:B:32:ARG:CD	9	58.2
(1,162)	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	20	58.2
(1,162)	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	20	58.2
(1,162)	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	20	58.2
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	5	58.2
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	5	58.2
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	5	58.2
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	11	58.2
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	11	58.2
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	11	58.2
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	13	58.1
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	13	58.1
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	13	58.1
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	3	58.0
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	3	58.0
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	3	58.0

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,157)	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	1	57.9
(1,157)	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	1	57.9
(1,157)	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	1	57.9
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	19	57.8
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	19	57.8
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	19	57.8
(1,104)	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	1:A:10:ILE:CD1	17	57.8
(1,104)	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	1:A:10:ILE:CD1	17	57.8
(1,104)	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	1:A:10:ILE:CD1	17	57.8
(1,104)	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	1:A:10:ILE:CD1	5	57.7
(1,104)	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	1:A:10:ILE:CD1	5	57.7
(1,104)	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	1:A:10:ILE:CD1	5	57.7
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	9	57.6
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	9	57.6
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	9	57.6
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	17	57.3
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	17	57.3
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	17	57.3
(1,163)	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	2:B:31:LYS:NZ	14	57.0
(1,163)	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	2:B:31:LYS:NZ	14	57.0
(1,163)	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	2:B:31:LYS:NZ	14	57.0
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	9	57.0
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	9	57.0
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	9	57.0
(1,106)	1:A:12:SER:N	1:A:12:SER:CA	1:A:12:SER:CB	1:A:12:SER:OG	5	56.9
(1,106)	1:A:12:SER:N	1:A:12:SER:CA	1:A:12:SER:CB	1:A:12:SER:OG	5	56.9
(1,106)	1:A:12:SER:N	1:A:12:SER:CA	1:A:12:SER:CB	1:A:12:SER:OG	5	56.9
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	1	56.8
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	1	56.8
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	1	56.8
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	1	56.7
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	1	56.7
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	1	56.7
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	3	56.6
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	3	56.6
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	3	56.6
(1,161)	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	6	56.5
(1,161)	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	6	56.5
(1,161)	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	6	56.5
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	14	56.5
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	14	56.5
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	14	56.5
(1,157)	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	2	56.3
(1,157)	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	2	56.3
(1,157)	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	2	56.3
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	12	56.0
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	12	56.0
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	12	56.0
(1,97)	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:CB	1:A:5:GLN:CG	6	55.9
(1,97)	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:CB	1:A:5:GLN:CG	6	55.9
(1,97)	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:CB	1:A:5:GLN:CG	6	55.9

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	20	55.9
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	20	55.9
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	20	55.9
(1,127)	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	2:B:4:GLN:CD	1	55.9
(1,127)	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	2:B:4:GLN:CD	1	55.9
(1,127)	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	2:B:4:GLN:CD	1	55.9
(1,163)	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	2:B:31:LYS:NZ	17	55.8
(1,163)	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	2:B:31:LYS:NZ	17	55.8
(1,163)	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	2:B:31:LYS:NZ	17	55.8
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	17	55.8
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	17	55.8
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	17	55.8
(1,126)	2:B:4:GLN:N	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	15	55.7
(1,126)	2:B:4:GLN:N	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	15	55.7
(1,126)	2:B:4:GLN:N	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	15	55.7
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	11	55.7
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	11	55.7
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	11	55.7
(1,111)	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	1:A:15:GLN:CD	6	55.7
(1,111)	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	1:A:15:GLN:CD	6	55.7
(1,111)	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	1:A:15:GLN:CD	6	55.7
(1,163)	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	2:B:31:LYS:NZ	13	55.6
(1,163)	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	2:B:31:LYS:NZ	13	55.6
(1,163)	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	2:B:31:LYS:NZ	13	55.6
(1,122)	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	1:A:21:LYS:NZ	10	55.6
(1,122)	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	1:A:21:LYS:NZ	10	55.6
(1,122)	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	1:A:21:LYS:NZ	10	55.6
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	4	55.6
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	4	55.6
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	4	55.6
(1,111)	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	1:A:15:GLN:CD	5	55.6
(1,111)	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	1:A:15:GLN:CD	5	55.6
(1,111)	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	1:A:15:GLN:CD	5	55.6
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	1	55.6
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	1	55.6
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	1	55.6
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	12	55.5
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	12	55.5
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	12	55.5
(1,155)	2:B:29:LYS:N	2:B:29:LYS:CA	2:B:29:LYS:CB	2:B:29:LYS:CG	8	55.4
(1,155)	2:B:29:LYS:N	2:B:29:LYS:CA	2:B:29:LYS:CB	2:B:29:LYS:CG	8	55.4
(1,155)	2:B:29:LYS:N	2:B:29:LYS:CA	2:B:29:LYS:CB	2:B:29:LYS:CG	8	55.4
(1,150)	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	2:B:22:ARG:NE	9	55.4
(1,150)	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	2:B:22:ARG:NE	9	55.4
(1,150)	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	2:B:22:ARG:NE	9	55.4
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	4	55.3
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	4	55.3
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	4	55.3
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	10	55.1
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	10	55.1
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	10	55.1

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	15	55.1
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	15	55.1
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	15	55.1
(1,162)	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	13	55.0
(1,162)	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	13	55.0
(1,162)	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	13	55.0
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	9	55.0
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	9	55.0
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	9	55.0
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	19	54.9
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	19	54.9
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	19	54.9
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	9	54.9
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	9	54.9
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	9	54.9
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	18	54.8
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	18	54.8
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	18	54.8
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	5	54.8
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	5	54.8
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	5	54.8
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	10	54.8
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	10	54.8
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	10	54.8
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	11	54.7
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	11	54.7
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	11	54.7
(1,119)	1:A:21:LYS:N	1:A:21:LYS:CA	1:A:21:LYS:CB	1:A:21:LYS:CG	13	54.7
(1,119)	1:A:21:LYS:N	1:A:21:LYS:CA	1:A:21:LYS:CB	1:A:21:LYS:CG	13	54.7
(1,119)	1:A:21:LYS:N	1:A:21:LYS:CA	1:A:21:LYS:CB	1:A:21:LYS:CG	13	54.7
(1,157)	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	14	54.6
(1,157)	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	14	54.6
(1,157)	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	14	54.6
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	8	54.6
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	8	54.6
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	8	54.6
(1,163)	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	2:B:31:LYS:NZ	15	54.5
(1,163)	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	2:B:31:LYS:NZ	15	54.5
(1,163)	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	2:B:31:LYS:NZ	15	54.5
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	4	54.5
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	4	54.5
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	4	54.5
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	5	54.4
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	5	54.4
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	5	54.4
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	16	54.4
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	16	54.4
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	16	54.4
(1,121)	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	13	54.4
(1,121)	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	13	54.4
(1,121)	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	13	54.4

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,148)	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	2	54.3
(1,148)	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	2	54.3
(1,148)	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	2	54.3
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	19	54.2
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	19	54.2
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	19	54.2
(1,158)	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	2:B:29:LYS:NZ	11	54.2
(1,158)	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	2:B:29:LYS:NZ	11	54.2
(1,158)	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	2:B:29:LYS:NZ	11	54.2
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	11	54.2
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	11	54.2
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	11	54.2
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	11	54.2
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	11	54.2
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	11	54.2
(1,122)	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	1:A:21:LYS:NZ	15	54.2
(1,122)	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	1:A:21:LYS:NZ	15	54.2
(1,122)	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	1:A:21:LYS:NZ	15	54.2
(1,126)	2:B:4:GLN:N	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	1	54.1
(1,126)	2:B:4:GLN:N	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	1	54.1
(1,126)	2:B:4:GLN:N	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	1	54.1
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	6	54.0
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	6	54.0
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	6	54.0
(1,122)	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	1:A:21:LYS:NZ	16	53.9
(1,122)	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	1:A:21:LYS:NZ	16	53.9
(1,122)	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	1:A:21:LYS:NZ	16	53.9
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	19	53.9
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	19	53.9
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	19	53.9
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	12	53.8
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	12	53.8
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	12	53.8
(1,162)	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	9	53.7
(1,162)	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	9	53.7
(1,162)	2:B:31:LYS:CB	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	9	53.7
(1,148)	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	13	53.7
(1,148)	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	13	53.7
(1,148)	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	13	53.7
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	14	53.7
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	14	53.7
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	14	53.7
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	13	53.6
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	13	53.6
(1,118)	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:CB	1:A:20:CYS:SG	13	53.6
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	2	53.4
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	2	53.4
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	2	53.4
(1,164)	2:B:32:ARG:N	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	3	53.3
(1,164)	2:B:32:ARG:N	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	3	53.3
(1,164)	2:B:32:ARG:N	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	3	53.3

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	7	53.3
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	7	53.3
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	7	53.3
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	13	53.2
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	13	53.2
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	13	53.2
(1,122)	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	1:A:21:LYS:NZ	20	53.2
(1,122)	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	1:A:21:LYS:NZ	20	53.2
(1,122)	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	1:A:21:LYS:NZ	20	53.2
(1,157)	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	13	53.1
(1,157)	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	13	53.1
(1,157)	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	13	53.1
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	11	53.1
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	11	53.1
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	11	53.1
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	3	53.1
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	3	53.1
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	3	53.1
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	18	53.0
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	18	53.0
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	18	53.0
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	19	53.0
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	19	53.0
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	19	53.0
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	1	52.9
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	1	52.9
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	1	52.9
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	6	52.9
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	6	52.9
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	6	52.9
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	17	52.9
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	17	52.9
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	17	52.9
(1,158)	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	2:B:29:LYS:NZ	18	52.8
(1,158)	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	2:B:29:LYS:NZ	18	52.8
(1,158)	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	2:B:29:LYS:NZ	18	52.8
(1,150)	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	2:B:22:ARG:NE	14	52.8
(1,150)	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	2:B:22:ARG:NE	14	52.8
(1,150)	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	2:B:22:ARG:NE	14	52.8
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	9	52.5
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	9	52.5
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	9	52.5
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	15	52.5
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	15	52.5
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	15	52.5
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	1	52.4
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	1	52.4
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	1	52.4
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	13	52.4
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	13	52.4
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	13	52.4

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	2	52.4
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	2	52.4
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	2	52.4
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	3	52.3
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	3	52.3
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	3	52.3
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	1	52.3
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	1	52.3
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	1	52.3
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	5	52.3
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	5	52.3
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	5	52.3
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	10	52.2
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	10	52.2
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	10	52.2
(1,111)	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	1:A:15:GLN:CD	1	52.2
(1,111)	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	1:A:15:GLN:CD	1	52.2
(1,111)	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	1:A:15:GLN:CD	1	52.2
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	7	52.1
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	7	52.1
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	7	52.1
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	8	52.0
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	8	52.0
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	8	52.0
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	18	52.0
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	18	52.0
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	18	52.0
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	2	52.0
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	2	52.0
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	2	52.0
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	2	51.9
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	2	51.9
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	2	51.9
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	20	51.8
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	20	51.8
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	20	51.8
(1,137)	2:B:13:GLU:N	2:B:13:GLU:CA	2:B:13:GLU:CB	2:B:13:GLU:CG	4	51.8
(1,137)	2:B:13:GLU:N	2:B:13:GLU:CA	2:B:13:GLU:CB	2:B:13:GLU:CG	4	51.8
(1,137)	2:B:13:GLU:N	2:B:13:GLU:CA	2:B:13:GLU:CB	2:B:13:GLU:CG	4	51.8
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	7	51.8
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	7	51.8
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	7	51.8
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	15	51.8
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	15	51.8
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	15	51.8
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	13	51.7
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	13	51.7
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	13	51.7
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	2	51.6
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	2	51.6
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	2	51.6

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	11	51.5
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	11	51.5
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	11	51.5
(1,158)	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	2:B:29:LYS:NZ	10	51.4
(1,158)	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	2:B:29:LYS:NZ	10	51.4
(1,158)	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	2:B:29:LYS:NZ	10	51.4
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	15	51.4
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	15	51.4
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	15	51.4
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	12	51.4
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	12	51.4
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	12	51.4
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	8	51.3
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	8	51.3
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	8	51.3
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	16	51.1
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	16	51.1
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	16	51.1
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	8	51.1
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	8	51.1
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	8	51.1
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	10	51.1
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	10	51.1
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	10	51.1
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	10	51.1
(1,156)	2:B:29:LYS:CA	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	6	50.9
(1,156)	2:B:29:LYS:CA	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	6	50.9
(1,156)	2:B:29:LYS:CA	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	6	50.9
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	3	50.9
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	3	50.9
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	3	50.9
(1,97)	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:CB	1:A:5:GLN:CG	12	50.8
(1,97)	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:CB	1:A:5:GLN:CG	12	50.8
(1,97)	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:CB	1:A:5:GLN:CG	12	50.8
(1,166)	2:B:32:ARG:CB	2:B:32:ARG:CG	2:B:32:ARG:CD	2:B:32:ARG:NE	2	50.7
(1,166)	2:B:32:ARG:CB	2:B:32:ARG:CG	2:B:32:ARG:CD	2:B:32:ARG:NE	2	50.7
(1,166)	2:B:32:ARG:CB	2:B:32:ARG:CG	2:B:32:ARG:CD	2:B:32:ARG:NE	2	50.7
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	12	50.7
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	12	50.7
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	12	50.7
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	6	50.6
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	6	50.6
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	6	50.6
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	3	50.6
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	3	50.6
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	3	50.6
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	16	50.5
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	16	50.5
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	16	50.5
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	14	50.4
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	14	50.4
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	14	50.4

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	16	50.2
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	16	50.2
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	16	50.2
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	11	50.2
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	11	50.2
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	11	50.2
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	8	50.2
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	8	50.2
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	8	50.2
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	13	50.2
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	13	50.2
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	13	50.2
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	15	50.1
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	15	50.1
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	15	50.1
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	6	50.1
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	6	50.1
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	6	50.1
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	6	50.0
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	6	50.0
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	6	50.0
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	13	50.0
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	13	50.0
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	13	50.0
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	13	50.0
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	18	49.9
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	18	49.9
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	18	49.9
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	10	49.9
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	10	49.9
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	10	49.9
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	17	49.8
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	17	49.8
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	17	49.8
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	4	49.8
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	4	49.8
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	4	49.8
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	11	49.8
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	11	49.8
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	11	49.8
(1,138)	2:B:13:GLU:CA	2:B:13:GLU:CB	2:B:13:GLU:CG	2:B:13:GLU:CD	15	49.7
(1,138)	2:B:13:GLU:CA	2:B:13:GLU:CB	2:B:13:GLU:CG	2:B:13:GLU:CD	15	49.7
(1,138)	2:B:13:GLU:CA	2:B:13:GLU:CB	2:B:13:GLU:CG	2:B:13:GLU:CD	15	49.7
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	13	49.6
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	13	49.6
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	13	49.6
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	7	49.6
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	7	49.6
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	7	49.6
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	9	49.5
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	9	49.5
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	9	49.5

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	1	49.4
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	1	49.4
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	1	49.4
(1,95)	1:A:4:GLU:N	1:A:4:GLU:CA	1:A:4:GLU:CB	1:A:4:GLU:CG	9	49.4
(1,95)	1:A:4:GLU:N	1:A:4:GLU:CA	1:A:4:GLU:CB	1:A:4:GLU:CG	9	49.4
(1,95)	1:A:4:GLU:N	1:A:4:GLU:CA	1:A:4:GLU:CB	1:A:4:GLU:CG	9	49.4
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	4	49.3
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	4	49.3
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	4	49.3
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	7	49.3
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	7	49.3
(1,139)	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:CB	2:B:15:LEU:CG	7	49.3
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	17	49.3
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	17	49.3
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	17	49.3
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	18	49.2
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	18	49.2
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	18	49.2
(1,97)	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:CB	1:A:5:GLN:CG	13	49.1
(1,97)	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:CB	1:A:5:GLN:CG	13	49.1
(1,97)	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:CB	1:A:5:GLN:CG	13	49.1
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	18	49.1
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	18	49.1
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	18	49.1
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	9	49.0
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	9	49.0
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	9	49.0
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	17	49.0
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	17	49.0
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	17	49.0
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	9	48.9
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	9	48.9
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	9	48.9
(1,138)	2:B:13:GLU:CA	2:B:13:GLU:CB	2:B:13:GLU:CG	2:B:13:GLU:CD	4	48.8
(1,138)	2:B:13:GLU:CA	2:B:13:GLU:CB	2:B:13:GLU:CG	2:B:13:GLU:CD	4	48.8
(1,138)	2:B:13:GLU:CA	2:B:13:GLU:CB	2:B:13:GLU:CG	2:B:13:GLU:CD	4	48.8
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	16	48.8
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	16	48.8
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	16	48.8
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	6	48.7
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	6	48.7
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	6	48.7
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	9	48.7
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	9	48.7
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	9	48.7
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	1	48.6
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	1	48.6
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	1	48.6
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	8	48.6
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	8	48.6
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	8	48.6

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	18	48.6
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	18	48.6
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	18	48.6
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	2	48.6
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	2	48.6
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	2	48.6
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	16	48.5
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	16	48.5
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	16	48.5
(1,105)	1:A:11:CYS:N	1:A:11:CYS:CA	1:A:11:CYS:CB	1:A:11:CYS:SG	14	48.2
(1,105)	1:A:11:CYS:N	1:A:11:CYS:CA	1:A:11:CYS:CB	1:A:11:CYS:SG	14	48.2
(1,105)	1:A:11:CYS:N	1:A:11:CYS:CA	1:A:11:CYS:CB	1:A:11:CYS:SG	14	48.2
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	20	48.1
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	20	48.1
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	20	48.1
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	10	48.0
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	10	48.0
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	10	48.0
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	15	48.0
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	15	48.0
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	15	48.0
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	19	47.9
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	19	47.9
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	19	47.9
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	12	47.8
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	12	47.8
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	12	47.8
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	4	47.8
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	4	47.8
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	4	47.8
(1,157)	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	17	47.7
(1,157)	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	17	47.7
(1,157)	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	17	47.7
(1,150)	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	2:B:22:ARG:NE	16	47.7
(1,150)	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	2:B:22:ARG:NE	16	47.7
(1,150)	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	2:B:22:ARG:NE	16	47.7
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	1	47.6
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	1	47.6
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	1	47.6
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	10	47.4
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	10	47.4
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	10	47.4
(1,137)	2:B:13:GLU:N	2:B:13:GLU:CA	2:B:13:GLU:CB	2:B:13:GLU:CG	15	47.3
(1,137)	2:B:13:GLU:N	2:B:13:GLU:CA	2:B:13:GLU:CB	2:B:13:GLU:CG	15	47.3
(1,137)	2:B:13:GLU:N	2:B:13:GLU:CA	2:B:13:GLU:CB	2:B:13:GLU:CG	15	47.3
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	12	47.3
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	12	47.3
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	12	47.3
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	20	47.3
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	20	47.3
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	20	47.3

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	19	47.2
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	19	47.2
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	19	47.2
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	19	47.2
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	19	47.2
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	19	47.2
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	2	47.2
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	2	47.2
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	2	47.2
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	4	47.2
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	4	47.2
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	4	47.2
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	6	47.0
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	6	47.0
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	6	47.0
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	7	46.9
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	7	46.9
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	7	46.9
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	3	46.8
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	3	46.8
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	3	46.8
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	20	46.6
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	20	46.6
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	20	46.6
(1,148)	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	20	46.4
(1,148)	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	20	46.4
(1,148)	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	20	46.4
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	20	46.3
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	20	46.3
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	20	46.3
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	14	46.2
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	14	46.2
(1,109)	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:CB	1:A:14:TYR:CG	14	46.2
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	11	46.1
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	11	46.1
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	11	46.1
(1,149)	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	17	46.1
(1,149)	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	17	46.1
(1,149)	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	17	46.1
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	20	46.1
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	20	46.1
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	20	46.1
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	4	46.1
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	4	46.1
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	4	46.1
(1,126)	2:B:4:GLN:N	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	17	46.1
(1,126)	2:B:4:GLN:N	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	17	46.1
(1,126)	2:B:4:GLN:N	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	17	46.1
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	1	45.9
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	1	45.9
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	1	45.9

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	13	45.9
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	13	45.9
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	13	45.9
(1,122)	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	1:A:21:LYS:NZ	19	45.9
(1,122)	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	1:A:21:LYS:NZ	19	45.9
(1,122)	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	1:A:21:LYS:NZ	19	45.9
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	17	45.8
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	17	45.8
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	17	45.8
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	7	45.7
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	7	45.7
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	7	45.7
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	15	45.6
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	15	45.6
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	15	45.6
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	13	45.5
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	13	45.5
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	13	45.5
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	14	45.5
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	14	45.5
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	14	45.5
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	14	45.4
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	14	45.4
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	14	45.4
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	5	45.3
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	5	45.3
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	5	45.3
(1,149)	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	19	45.2
(1,149)	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	19	45.2
(1,149)	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	19	45.2
(1,127)	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	2:B:4:GLN:CD	3	45.2
(1,127)	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	2:B:4:GLN:CD	3	45.2
(1,127)	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	2:B:4:GLN:CD	3	45.2
(1,137)	2:B:13:GLU:N	2:B:13:GLU:CA	2:B:13:GLU:CB	2:B:13:GLU:CG	3	45.1
(1,137)	2:B:13:GLU:N	2:B:13:GLU:CA	2:B:13:GLU:CB	2:B:13:GLU:CG	3	45.1
(1,137)	2:B:13:GLU:N	2:B:13:GLU:CA	2:B:13:GLU:CB	2:B:13:GLU:CG	3	45.1
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	14	45.1
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	14	45.1
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	14	45.1
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	13	45.0
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	13	45.0
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	13	45.0
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	19	45.0
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	19	45.0
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	19	45.0
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	10	44.9
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	10	44.9
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	10	44.9
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	6	44.8
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	6	44.8
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	6	44.8

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	4	44.7
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	4	44.7
(1,99)	1:A:6:CYS:N	1:A:6:CYS:CA	1:A:6:CYS:CB	1:A:6:CYS:SG	4	44.7
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	3	44.7
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	3	44.7
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	3	44.7
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	4	44.7
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	4	44.7
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	4	44.7
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	8	44.7
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	8	44.7
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	8	44.7
(1,111)	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	1:A:15:GLN:CD	2	44.7
(1,111)	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	1:A:15:GLN:CD	2	44.7
(1,111)	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	1:A:15:GLN:CD	2	44.7
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	9	44.6
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	9	44.6
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	9	44.6
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	15	44.5
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	15	44.5
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	15	44.5
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	4	44.4
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	4	44.4
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	4	44.4
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	8	44.4
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	8	44.4
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	8	44.4
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	3	44.4
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	3	44.4
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	3	44.4
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	11	44.3
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	11	44.3
(1,145)	2:B:19:CYS:N	2:B:19:CYS:CA	2:B:19:CYS:CB	2:B:19:CYS:SG	11	44.3
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	18	44.3
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	18	44.3
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	18	44.3
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	2	44.2
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	2	44.2
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	2	44.2
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	8	44.2
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	8	44.2
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	8	44.2
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	16	44.2
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	16	44.2
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	16	44.2
(1,137)	2:B:13:GLU:N	2:B:13:GLU:CA	2:B:13:GLU:CB	2:B:13:GLU:CG	13	44.1
(1,137)	2:B:13:GLU:N	2:B:13:GLU:CA	2:B:13:GLU:CB	2:B:13:GLU:CG	13	44.1
(1,137)	2:B:13:GLU:N	2:B:13:GLU:CA	2:B:13:GLU:CB	2:B:13:GLU:CG	13	44.1
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	8	44.1
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	8	44.1
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	8	44.1

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	11	44.0
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	11	44.0
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	11	44.0
(1,147)	2:B:21:GLU:CA	2:B:21:GLU:CB	2:B:21:GLU:CG	2:B:21:GLU:CD	4	43.8
(1,147)	2:B:21:GLU:CA	2:B:21:GLU:CB	2:B:21:GLU:CG	2:B:21:GLU:CD	4	43.8
(1,147)	2:B:21:GLU:CA	2:B:21:GLU:CB	2:B:21:GLU:CG	2:B:21:GLU:CD	4	43.8
(1,137)	2:B:13:GLU:N	2:B:13:GLU:CA	2:B:13:GLU:CB	2:B:13:GLU:CG	5	43.8
(1,137)	2:B:13:GLU:N	2:B:13:GLU:CA	2:B:13:GLU:CB	2:B:13:GLU:CG	5	43.8
(1,137)	2:B:13:GLU:N	2:B:13:GLU:CA	2:B:13:GLU:CB	2:B:13:GLU:CG	5	43.8
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	16	43.8
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	16	43.8
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	16	43.8
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	20	43.8
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	20	43.8
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	20	43.8
(1,143)	2:B:17:LEU:CA	2:B:17:LEU:CB	2:B:17:LEU:CG	2:B:17:LEU:CD1	7	43.7
(1,143)	2:B:17:LEU:CA	2:B:17:LEU:CB	2:B:17:LEU:CG	2:B:17:LEU:CD1	7	43.7
(1,143)	2:B:17:LEU:CA	2:B:17:LEU:CB	2:B:17:LEU:CG	2:B:17:LEU:CD1	7	43.7
(1,143)	2:B:17:LEU:CA	2:B:17:LEU:CB	2:B:17:LEU:CG	2:B:17:LEU:CD1	13	43.7
(1,143)	2:B:17:LEU:CA	2:B:17:LEU:CB	2:B:17:LEU:CG	2:B:17:LEU:CD1	13	43.7
(1,143)	2:B:17:LEU:CA	2:B:17:LEU:CB	2:B:17:LEU:CG	2:B:17:LEU:CD1	13	43.7
(1,150)	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	2:B:22:ARG:NE	17	43.6
(1,150)	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	2:B:22:ARG:NE	17	43.6
(1,150)	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	2:B:22:ARG:NE	17	43.6
(1,135)	2:B:11:LEU:CA	2:B:11:LEU:CB	2:B:11:LEU:CG	2:B:11:LEU:CD1	3	43.4
(1,135)	2:B:11:LEU:CA	2:B:11:LEU:CB	2:B:11:LEU:CG	2:B:11:LEU:CD1	3	43.4
(1,135)	2:B:11:LEU:CA	2:B:11:LEU:CB	2:B:11:LEU:CG	2:B:11:LEU:CD1	3	43.4
(1,135)	2:B:11:LEU:CA	2:B:11:LEU:CB	2:B:11:LEU:CG	2:B:11:LEU:CD1	13	43.2
(1,135)	2:B:11:LEU:CA	2:B:11:LEU:CB	2:B:11:LEU:CG	2:B:11:LEU:CD1	13	43.2
(1,135)	2:B:11:LEU:CA	2:B:11:LEU:CB	2:B:11:LEU:CG	2:B:11:LEU:CD1	13	43.2
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	17	43.1
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	17	43.1
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	17	43.1
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	2	43.0
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	2	43.0
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	2	43.0
(1,126)	2:B:4:GLN:N	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	7	43.0
(1,126)	2:B:4:GLN:N	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	7	43.0
(1,126)	2:B:4:GLN:N	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	7	43.0
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	14	43.0
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	14	43.0
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	14	43.0
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	9	42.8
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	9	42.8
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	9	42.8
(1,163)	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	2:B:31:LYS:NZ	12	42.7
(1,163)	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	2:B:31:LYS:NZ	12	42.7
(1,163)	2:B:31:LYS:CG	2:B:31:LYS:CD	2:B:31:LYS:CE	2:B:31:LYS:NZ	12	42.7
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	9	42.7
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	9	42.7
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	9	42.7

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	5	42.0
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	5	42.0
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	5	42.0
(1,148)	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	14	41.9
(1,148)	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	14	41.9
(1,148)	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	14	41.9
(1,135)	2:B:11:LEU:CA	2:B:11:LEU:CB	2:B:11:LEU:CG	2:B:11:LEU:CD1	19	41.9
(1,135)	2:B:11:LEU:CA	2:B:11:LEU:CB	2:B:11:LEU:CG	2:B:11:LEU:CD1	19	41.9
(1,135)	2:B:11:LEU:CA	2:B:11:LEU:CB	2:B:11:LEU:CG	2:B:11:LEU:CD1	19	41.9
(1,115)	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	1:A:17:GLU:CD	16	41.7
(1,115)	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	1:A:17:GLU:CD	16	41.7
(1,115)	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	1:A:17:GLU:CD	16	41.7
(1,135)	2:B:11:LEU:CA	2:B:11:LEU:CB	2:B:11:LEU:CG	2:B:11:LEU:CD1	4	41.5
(1,135)	2:B:11:LEU:CA	2:B:11:LEU:CB	2:B:11:LEU:CG	2:B:11:LEU:CD1	4	41.5
(1,135)	2:B:11:LEU:CA	2:B:11:LEU:CB	2:B:11:LEU:CG	2:B:11:LEU:CD1	4	41.5
(1,166)	2:B:32:ARG:CB	2:B:32:ARG:CG	2:B:32:ARG:CD	2:B:32:ARG:NE	18	41.4
(1,166)	2:B:32:ARG:CB	2:B:32:ARG:CG	2:B:32:ARG:CD	2:B:32:ARG:NE	18	41.4
(1,166)	2:B:32:ARG:CB	2:B:32:ARG:CG	2:B:32:ARG:CD	2:B:32:ARG:NE	18	41.4
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	3	41.3
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	3	41.3
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	3	41.3
(1,135)	2:B:11:LEU:CA	2:B:11:LEU:CB	2:B:11:LEU:CG	2:B:11:LEU:CD1	18	41.2
(1,135)	2:B:11:LEU:CA	2:B:11:LEU:CB	2:B:11:LEU:CG	2:B:11:LEU:CD1	18	41.2
(1,135)	2:B:11:LEU:CA	2:B:11:LEU:CB	2:B:11:LEU:CG	2:B:11:LEU:CD1	18	41.2
(1,115)	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	1:A:17:GLU:CD	7	41.2
(1,115)	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	1:A:17:GLU:CD	7	41.2
(1,115)	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	1:A:17:GLU:CD	7	41.2
(1,98)	1:A:5:GLN:CA	1:A:5:GLN:CB	1:A:5:GLN:CG	1:A:5:GLN:CD	16	41.1
(1,98)	1:A:5:GLN:CA	1:A:5:GLN:CB	1:A:5:GLN:CG	1:A:5:GLN:CD	16	41.1
(1,98)	1:A:5:GLN:CA	1:A:5:GLN:CB	1:A:5:GLN:CG	1:A:5:GLN:CD	16	41.1
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	17	41.1
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	17	41.1
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	17	41.1
(1,113)	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	1:A:16:LEU:CD1	15	41.0
(1,113)	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	1:A:16:LEU:CD1	15	41.0
(1,113)	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	1:A:16:LEU:CD1	15	41.0
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	19	40.9
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	19	40.9
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	19	40.9
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	6	40.4
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	6	40.4
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	6	40.4
(1,105)	1:A:11:CYS:N	1:A:11:CYS:CA	1:A:11:CYS:CB	1:A:11:CYS:SG	15	40.4
(1,105)	1:A:11:CYS:N	1:A:11:CYS:CA	1:A:11:CYS:CB	1:A:11:CYS:SG	15	40.4
(1,105)	1:A:11:CYS:N	1:A:11:CYS:CA	1:A:11:CYS:CB	1:A:11:CYS:SG	15	40.4
(1,157)	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	7	40.3
(1,157)	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	7	40.3
(1,157)	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	7	40.3
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	14	40.2
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	14	40.2
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	14	40.2

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	13	40.1
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	13	40.1
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	13	40.1
(1,135)	2:B:11:LEU:CA	2:B:11:LEU:CB	2:B:11:LEU:CG	2:B:11:LEU:CD1	10	39.8
(1,135)	2:B:11:LEU:CA	2:B:11:LEU:CB	2:B:11:LEU:CG	2:B:11:LEU:CD1	10	39.8
(1,135)	2:B:11:LEU:CA	2:B:11:LEU:CB	2:B:11:LEU:CG	2:B:11:LEU:CD1	10	39.8
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	20	39.7
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	20	39.7
(1,117)	1:A:19:TYR:N	1:A:19:TYR:CA	1:A:19:TYR:CB	1:A:19:TYR:CG	20	39.7
(1,120)	1:A:21:LYS:CA	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	2	39.0
(1,120)	1:A:21:LYS:CA	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	2	39.0
(1,120)	1:A:21:LYS:CA	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	2	39.0
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	10	38.6
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	10	38.6
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	10	38.6
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	7	38.0
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	7	38.0
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	7	38.0
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	17	37.9
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	17	37.9
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	17	37.9
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	9	37.9
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	9	37.9
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	9	37.9
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	2	37.8
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	2	37.8
(1,116)	1:A:18:ASN:N	1:A:18:ASN:CA	1:A:18:ASN:CB	1:A:18:ASN:CG	2	37.8
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	20	37.4
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	20	37.4
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	20	37.4
(1,120)	1:A:21:LYS:CA	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	12	36.7
(1,120)	1:A:21:LYS:CA	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	12	36.7
(1,120)	1:A:21:LYS:CA	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	12	36.7
(1,105)	1:A:11:CYS:N	1:A:11:CYS:CA	1:A:11:CYS:CB	1:A:11:CYS:SG	3	36.6
(1,105)	1:A:11:CYS:N	1:A:11:CYS:CA	1:A:11:CYS:CB	1:A:11:CYS:SG	3	36.6
(1,105)	1:A:11:CYS:N	1:A:11:CYS:CA	1:A:11:CYS:CB	1:A:11:CYS:SG	3	36.6
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	18	36.5
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	18	36.5
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	18	36.5
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	1	35.2
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	1	35.2
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	1	35.2
(1,165)	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	2:B:32:ARG:CD	2	34.1
(1,165)	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	2:B:32:ARG:CD	2	34.1
(1,165)	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	2:B:32:ARG:CD	2	34.1
(1,93)	1:A:2:ILE:CA	1:A:2:ILE:CB	1:A:2:ILE:CG1	1:A:2:ILE:CD1	7	33.9
(1,93)	1:A:2:ILE:CA	1:A:2:ILE:CB	1:A:2:ILE:CG1	1:A:2:ILE:CD1	7	33.9
(1,93)	1:A:2:ILE:CA	1:A:2:ILE:CB	1:A:2:ILE:CG1	1:A:2:ILE:CD1	7	33.9
(1,105)	1:A:11:CYS:N	1:A:11:CYS:CA	1:A:11:CYS:CB	1:A:11:CYS:SG	17	33.8
(1,105)	1:A:11:CYS:N	1:A:11:CYS:CA	1:A:11:CYS:CB	1:A:11:CYS:SG	17	33.8
(1,105)	1:A:11:CYS:N	1:A:11:CYS:CA	1:A:11:CYS:CB	1:A:11:CYS:SG	17	33.8

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	2	33.6
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	2	33.6
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	2	33.6
(1,106)	1:A:12:SER:N	1:A:12:SER:CA	1:A:12:SER:CB	1:A:12:SER:OG	19	32.8
(1,106)	1:A:12:SER:N	1:A:12:SER:CA	1:A:12:SER:CB	1:A:12:SER:OG	19	32.8
(1,106)	1:A:12:SER:N	1:A:12:SER:CA	1:A:12:SER:CB	1:A:12:SER:OG	19	32.8
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	5	31.6
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	5	31.6
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	5	31.6
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	15	30.0
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	15	30.0
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	15	30.0
(1,93)	1:A:2:ILE:CA	1:A:2:ILE:CB	1:A:2:ILE:CG1	1:A:2:ILE:CD1	17	29.7
(1,93)	1:A:2:ILE:CA	1:A:2:ILE:CB	1:A:2:ILE:CG1	1:A:2:ILE:CD1	17	29.7
(1,93)	1:A:2:ILE:CA	1:A:2:ILE:CB	1:A:2:ILE:CG1	1:A:2:ILE:CD1	17	29.7
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	13	29.5
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	13	29.5
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	13	29.5
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	11	29.5
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	11	29.5
(1,110)	1:A:15:GLN:N	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	11	29.5
(1,147)	2:B:21:GLU:CA	2:B:21:GLU:CB	2:B:21:GLU:CG	2:B:21:GLU:CD	3	29.3
(1,147)	2:B:21:GLU:CA	2:B:21:GLU:CB	2:B:21:GLU:CG	2:B:21:GLU:CD	3	29.3
(1,147)	2:B:21:GLU:CA	2:B:21:GLU:CB	2:B:21:GLU:CG	2:B:21:GLU:CD	3	29.3
(1,120)	1:A:21:LYS:CA	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	11	29.2
(1,120)	1:A:21:LYS:CA	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	11	29.2
(1,120)	1:A:21:LYS:CA	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	11	29.2
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	15	29.2
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	15	29.2
(1,112)	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:CB	1:A:16:LEU:CG	15	29.2
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	7	27.6
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	7	27.6
(1,129)	2:B:6:LEU:N	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	7	27.6
(1,130)	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	2:B:6:LEU:CD1	7	27.3
(1,130)	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	2:B:6:LEU:CD1	7	27.3
(1,130)	2:B:6:LEU:CA	2:B:6:LEU:CB	2:B:6:LEU:CG	2:B:6:LEU:CD1	7	27.3
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	15	26.9
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	15	26.9
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	15	26.9
(1,100)	1:A:7:CYS:N	1:A:7:CYS:CA	1:A:7:CYS:CB	1:A:7:CYS:SG	19	26.9
(1,100)	1:A:7:CYS:N	1:A:7:CYS:CA	1:A:7:CYS:CB	1:A:7:CYS:SG	19	26.9
(1,100)	1:A:7:CYS:N	1:A:7:CYS:CA	1:A:7:CYS:CB	1:A:7:CYS:SG	19	26.9
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	11	26.6
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	11	26.6
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	11	26.6
(1,100)	1:A:7:CYS:N	1:A:7:CYS:CA	1:A:7:CYS:CB	1:A:7:CYS:SG	18	26.5
(1,100)	1:A:7:CYS:N	1:A:7:CYS:CA	1:A:7:CYS:CB	1:A:7:CYS:SG	18	26.5
(1,100)	1:A:7:CYS:N	1:A:7:CYS:CA	1:A:7:CYS:CB	1:A:7:CYS:SG	18	26.5
(1,98)	1:A:5:GLN:CA	1:A:5:GLN:CB	1:A:5:GLN:CG	1:A:5:GLN:CD	20	25.8
(1,98)	1:A:5:GLN:CA	1:A:5:GLN:CB	1:A:5:GLN:CG	1:A:5:GLN:CD	20	25.8
(1,98)	1:A:5:GLN:CA	1:A:5:GLN:CB	1:A:5:GLN:CG	1:A:5:GLN:CD	20	25.8

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,100)	1:A:7:CYS:N	1:A:7:CYS:CA	1:A:7:CYS:CB	1:A:7:CYS:SG	3	24.9
(1,100)	1:A:7:CYS:N	1:A:7:CYS:CA	1:A:7:CYS:CB	1:A:7:CYS:SG	3	24.9
(1,100)	1:A:7:CYS:N	1:A:7:CYS:CA	1:A:7:CYS:CB	1:A:7:CYS:SG	3	24.9
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	2	24.5
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	2	24.5
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	2	24.5
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	3	24.3
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	3	24.3
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	3	24.3
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	6	24.2
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	6	24.2
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	6	24.2
(1,98)	1:A:5:GLN:CA	1:A:5:GLN:CB	1:A:5:GLN:CG	1:A:5:GLN:CD	17	23.4
(1,98)	1:A:5:GLN:CA	1:A:5:GLN:CB	1:A:5:GLN:CG	1:A:5:GLN:CD	17	23.4
(1,98)	1:A:5:GLN:CA	1:A:5:GLN:CB	1:A:5:GLN:CG	1:A:5:GLN:CD	17	23.4
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	9	22.6
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	9	22.6
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	9	22.6
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	18	22.2
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	18	22.2
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	18	22.2
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	4	22.2
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	4	22.2
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	4	22.2
(1,92)	1:A:2:ILE:N	1:A:2:ILE:CA	1:A:2:ILE:CB	1:A:2:ILE:CG1	3	22.0
(1,92)	1:A:2:ILE:N	1:A:2:ILE:CA	1:A:2:ILE:CB	1:A:2:ILE:CG1	3	22.0
(1,92)	1:A:2:ILE:N	1:A:2:ILE:CA	1:A:2:ILE:CB	1:A:2:ILE:CG1	3	22.0
(1,100)	1:A:7:CYS:N	1:A:7:CYS:CA	1:A:7:CYS:CB	1:A:7:CYS:SG	5	22.0
(1,100)	1:A:7:CYS:N	1:A:7:CYS:CA	1:A:7:CYS:CB	1:A:7:CYS:SG	5	22.0
(1,100)	1:A:7:CYS:N	1:A:7:CYS:CA	1:A:7:CYS:CB	1:A:7:CYS:SG	5	22.0
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	10	21.2
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	10	21.2
(1,133)	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:CB	2:B:10:HIS:CG	10	21.2
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	16	21.1
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	16	21.1
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	16	21.1
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	18	20.4
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	18	20.4
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	18	20.4
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	7	20.4
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	7	20.4
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	7	20.4
(1,152)	2:B:25:PHE:N	2:B:25:PHE:CA	2:B:25:PHE:CB	2:B:25:PHE:CG	12	20.3
(1,152)	2:B:25:PHE:N	2:B:25:PHE:CA	2:B:25:PHE:CB	2:B:25:PHE:CG	12	20.3
(1,152)	2:B:25:PHE:N	2:B:25:PHE:CA	2:B:25:PHE:CB	2:B:25:PHE:CG	12	20.3
(1,111)	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	1:A:15:GLN:CD	11	20.3
(1,111)	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	1:A:15:GLN:CD	11	20.3
(1,111)	1:A:15:GLN:CA	1:A:15:GLN:CB	1:A:15:GLN:CG	1:A:15:GLN:CD	11	20.3
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	7	20.0
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	7	20.0
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	7	20.0

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,147)	2:B:21:GLU:CA	2:B:21:GLU:CB	2:B:21:GLU:CG	2:B:21:GLU:CD	15	19.7
(1,147)	2:B:21:GLU:CA	2:B:21:GLU:CB	2:B:21:GLU:CG	2:B:21:GLU:CD	15	19.7
(1,147)	2:B:21:GLU:CA	2:B:21:GLU:CB	2:B:21:GLU:CG	2:B:21:GLU:CD	15	19.7
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	1	19.6
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	1	19.6
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	1	19.6
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	12	19.5
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	12	19.5
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	12	19.5
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	20	19.2
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	20	19.2
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	20	19.2
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	3	19.0
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	3	19.0
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	3	19.0
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	19	18.7
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	19	18.7
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	19	18.7
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	4	18.5
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	4	18.5
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	4	18.5
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	15	18.2
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	15	18.2
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	15	18.2
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	6	17.7
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	6	17.7
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	6	17.7
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	7	17.4
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	7	17.4
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	7	17.4
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	17	17.4
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	17	17.4
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	17	17.4
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	8	17.2
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	8	17.2
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	8	17.2
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	1	17.0
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	1	17.0
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	1	17.0
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	10	17.0
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	10	17.0
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	10	17.0
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	1	16.9
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	1	16.9
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	1	16.9
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	12	16.4
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	12	16.4
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	12	16.4
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	11	16.3
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	11	16.3
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	11	16.3

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	3	16.2
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	3	16.2
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	3	16.2
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	9	16.2
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	9	16.2
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	9	16.2
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	19	16.2
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	19	16.2
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	19	16.2
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	5	15.6
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	5	15.6
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	5	15.6
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	15	15.3
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	15	15.3
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	15	15.3
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	6	15.2
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	6	15.2
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	6	15.2
(1,150)	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	2:B:22:ARG:NE	4	15.1
(1,150)	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	2:B:22:ARG:NE	4	15.1
(1,150)	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	2:B:22:ARG:NE	4	15.1
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	10	14.9
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	10	14.9
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	10	14.9
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	14	14.8
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	14	14.8
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	14	14.8
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	5	14.8
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	5	14.8
(1,123)	2:B:1:PHE:N	2:B:1:PHE:CA	2:B:1:PHE:CB	2:B:1:PHE:CG	5	14.8
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	2	14.6
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	2	14.6
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	2	14.6
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	8	14.2
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	8	14.2
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	8	14.2
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	13	14.0
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	13	14.0
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	13	14.0
(1,152)	2:B:25:PHE:N	2:B:25:PHE:CA	2:B:25:PHE:CB	2:B:25:PHE:CG	16	14.0
(1,152)	2:B:25:PHE:N	2:B:25:PHE:CA	2:B:25:PHE:CB	2:B:25:PHE:CG	16	14.0
(1,152)	2:B:25:PHE:N	2:B:25:PHE:CA	2:B:25:PHE:CB	2:B:25:PHE:CG	16	14.0
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	10	13.9
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	10	13.9
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	10	13.9
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	11	13.9
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	11	13.9
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	11	13.9
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	20	13.2
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	20	13.2
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	20	13.2

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	19	12.7
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	19	12.7
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	19	12.7
(1,150)	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	2:B:22:ARG:NE	10	12.7
(1,150)	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	2:B:22:ARG:NE	10	12.7
(1,150)	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	2:B:22:ARG:NE	10	12.7
(1,152)	2:B:25:PHE:N	2:B:25:PHE:CA	2:B:25:PHE:CB	2:B:25:PHE:CG	19	12.5
(1,152)	2:B:25:PHE:N	2:B:25:PHE:CA	2:B:25:PHE:CB	2:B:25:PHE:CG	19	12.5
(1,152)	2:B:25:PHE:N	2:B:25:PHE:CA	2:B:25:PHE:CB	2:B:25:PHE:CG	19	12.5
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	7	12.5
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	7	12.5
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	7	12.5
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	16	12.1
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	16	12.1
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	16	12.1
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	14	12.1
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	14	12.1
(1,151)	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:CB	2:B:24:PHE:CG	14	12.1
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	5	11.3
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	5	11.3
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	5	11.3
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	14	10.8
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	14	10.8
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	14	10.8
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	6	10.5
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	6	10.5
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	6	10.5
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	17	10.1
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	17	10.1
(1,153)	2:B:26:TYR:N	2:B:26:TYR:CA	2:B:26:TYR:CB	2:B:26:TYR:CG	17	10.1
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	2	9.9
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	2	9.9
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	2	9.9
(1,120)	1:A:21:LYS:CA	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	9	9.4
(1,120)	1:A:21:LYS:CA	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	9	9.4
(1,120)	1:A:21:LYS:CA	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	9	9.4
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	14	9.3
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	14	9.3
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	14	9.3
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	15	9.1
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	15	9.1
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	15	9.1
(1,122)	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	1:A:21:LYS:NZ	4	9.1
(1,122)	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	1:A:21:LYS:NZ	4	9.1
(1,122)	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	1:A:21:LYS:NZ	4	9.1
(1,152)	2:B:25:PHE:N	2:B:25:PHE:CA	2:B:25:PHE:CB	2:B:25:PHE:CG	8	9.0
(1,152)	2:B:25:PHE:N	2:B:25:PHE:CA	2:B:25:PHE:CB	2:B:25:PHE:CG	8	9.0
(1,152)	2:B:25:PHE:N	2:B:25:PHE:CA	2:B:25:PHE:CB	2:B:25:PHE:CG	8	9.0
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	16	9.0
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	16	9.0
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	16	9.0

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	8	8.9
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	8	8.9
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	8	8.9
(1,119)	1:A:21:LYS:N	1:A:21:LYS:CA	1:A:21:LYS:CB	1:A:21:LYS:CG	19	8.9
(1,119)	1:A:21:LYS:N	1:A:21:LYS:CA	1:A:21:LYS:CB	1:A:21:LYS:CG	19	8.9
(1,119)	1:A:21:LYS:N	1:A:21:LYS:CA	1:A:21:LYS:CB	1:A:21:LYS:CG	19	8.9
(1,92)	1:A:2:ILE:N	1:A:2:ILE:CA	1:A:2:ILE:CB	1:A:2:ILE:CG1	19	8.7
(1,92)	1:A:2:ILE:N	1:A:2:ILE:CA	1:A:2:ILE:CB	1:A:2:ILE:CG1	19	8.7
(1,92)	1:A:2:ILE:N	1:A:2:ILE:CA	1:A:2:ILE:CB	1:A:2:ILE:CG1	19	8.7
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	1	8.7
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	1	8.7
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	1	8.7
(1,77)	2:B:21:GLU:C	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:C	7	8.6
(1,77)	2:B:21:GLU:C	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:C	7	8.6
(1,77)	2:B:21:GLU:C	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:C	7	8.6
(1,87)	2:B:29:LYS:C	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:C	20	8.4
(1,87)	2:B:29:LYS:C	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:C	20	8.4
(1,87)	2:B:29:LYS:C	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:C	20	8.4
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	3	8.3
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	3	8.3
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	3	8.3
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	3	8.3
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	3	8.3
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	3	8.3
(1,77)	2:B:21:GLU:C	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:C	11	8.2
(1,77)	2:B:21:GLU:C	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:C	11	8.2
(1,77)	2:B:21:GLU:C	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:C	11	8.2
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	13	8.0
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	13	8.0
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	13	8.0
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	20	8.0
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	20	8.0
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	20	8.0
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	13	7.9
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	13	7.9
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	13	7.9
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	20	7.8
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	20	7.8
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	20	7.8
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	20	7.6
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	20	7.6
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	20	7.6
(1,149)	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	10	7.5
(1,149)	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	10	7.5
(1,149)	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	10	7.5
(1,47)	2:B:4:GLN:C	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:C	11	6.9
(1,47)	2:B:4:GLN:C	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:C	11	6.9
(1,47)	2:B:4:GLN:C	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:C	11	6.9
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	7	6.6
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	7	6.6
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	7	6.6

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	12	6.6
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	12	6.6
(1,128)	2:B:5:HIS:N	2:B:5:HIS:CA	2:B:5:HIS:CB	2:B:5:HIS:CG	12	6.6
(1,39)	1:A:20:CYS:C	1:A:21:LYS:N	1:A:21:LYS:CA	1:A:21:LYS:C	2	6.5
(1,39)	1:A:20:CYS:C	1:A:21:LYS:N	1:A:21:LYS:CA	1:A:21:LYS:C	2	6.5
(1,39)	1:A:20:CYS:C	1:A:21:LYS:N	1:A:21:LYS:CA	1:A:21:LYS:C	2	6.5
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	16	6.2
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	16	6.2
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	16	6.2
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	18	6.2
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	18	6.2
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	18	6.2
(1,121)	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	17	6.1
(1,121)	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	17	6.1
(1,121)	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	17	6.1
(1,157)	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	15	6.0
(1,157)	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	15	6.0
(1,157)	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	15	6.0
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	16	5.9
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	16	5.9
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	16	5.9
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	10	5.9
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	10	5.9
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	10	5.9
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	20	5.7
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	20	5.7
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	20	5.7
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	2	5.7
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	2	5.7
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	2	5.7
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	7	5.6
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	7	5.6
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	7	5.6
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	1	5.5
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	1	5.5
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	1	5.5
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	12	5.4
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	12	5.4
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	12	5.4
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	16	5.4
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	16	5.4
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	16	5.4
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	9	5.3
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	9	5.3
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	9	5.3
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	4	5.1
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	4	5.1
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	4	5.1
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	8	5.1
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	8	5.1
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	8	5.1

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	9	5.1
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	9	5.1
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	9	5.1
(1,39)	1:A:20:CYS:C	1:A:21:LYS:N	1:A:21:LYS:CA	1:A:21:LYS:C	7	5.0
(1,39)	1:A:20:CYS:C	1:A:21:LYS:N	1:A:21:LYS:CA	1:A:21:LYS:C	7	5.0
(1,39)	1:A:20:CYS:C	1:A:21:LYS:N	1:A:21:LYS:CA	1:A:21:LYS:C	7	5.0
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	17	5.0
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	17	5.0
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	17	5.0
(1,146)	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:CB	2:B:21:GLU:CG	10	4.9
(1,146)	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:CB	2:B:21:GLU:CG	10	4.9
(1,146)	2:B:21:GLU:N	2:B:21:GLU:CA	2:B:21:GLU:CB	2:B:21:GLU:CG	10	4.9
(1,127)	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	2:B:4:GLN:CD	6	4.8
(1,127)	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	2:B:4:GLN:CD	6	4.8
(1,127)	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	2:B:4:GLN:CD	6	4.8
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	8	4.8
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	8	4.8
(1,125)	2:B:3:ASN:N	2:B:3:ASN:CA	2:B:3:ASN:CB	2:B:3:ASN:CG	8	4.8
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	15	4.8
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	15	4.8
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	15	4.8
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	10	4.7
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	10	4.7
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	10	4.7
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	19	4.7
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	19	4.7
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	19	4.7
(1,77)	2:B:21:GLU:C	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:C	15	4.6
(1,77)	2:B:21:GLU:C	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:C	15	4.6
(1,77)	2:B:21:GLU:C	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:C	15	4.6
(1,37)	1:A:19:TYR:C	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:C	9	4.5
(1,37)	1:A:19:TYR:C	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:C	9	4.5
(1,37)	1:A:19:TYR:C	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:C	9	4.5
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	9	4.5
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	9	4.5
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	9	4.5
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	3	4.4
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	3	4.4
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	3	4.4
(1,7)	1:A:4:GLU:C	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:C	18	4.3
(1,7)	1:A:4:GLU:C	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:C	18	4.3
(1,7)	1:A:4:GLU:C	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:C	18	4.3
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	15	4.2
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	15	4.2
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	15	4.2
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	1	4.2
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	1	4.2
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	1	4.2
(1,148)	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	17	4.2
(1,148)	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	17	4.2
(1,148)	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	17	4.2

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,121)	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	5	4.2
(1,121)	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	5	4.2
(1,121)	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	5	4.2
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	16	4.1
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	16	4.1
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	16	4.1
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	14	4.1
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	14	4.1
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	14	4.1
(1,127)	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	2:B:4:GLN:CD	18	4.0
(1,127)	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	2:B:4:GLN:CD	18	4.0
(1,127)	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	2:B:4:GLN:CD	18	4.0
(1,7)	1:A:4:GLU:C	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:C	14	3.8
(1,7)	1:A:4:GLU:C	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:C	14	3.8
(1,7)	1:A:4:GLU:C	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:C	14	3.8
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	2	3.8
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	2	3.8
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	2	3.8
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	12	3.8
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	12	3.8
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	12	3.8
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	3	3.8
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	3	3.8
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	3	3.8
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	7	3.7
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	7	3.7
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	7	3.7
(1,37)	1:A:19:TYR:C	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:C	6	3.6
(1,37)	1:A:19:TYR:C	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:C	6	3.6
(1,37)	1:A:19:TYR:C	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:C	6	3.6
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	5	3.6
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	5	3.6
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	5	3.6
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	18	3.5
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	18	3.5
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	18	3.5
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	6	3.5
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	6	3.5
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	6	3.5
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	18	3.5
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	18	3.5
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	18	3.5
(1,147)	2:B:21:GLU:CA	2:B:21:GLU:CB	2:B:21:GLU:CG	2:B:21:GLU:CD	16	3.5
(1,147)	2:B:21:GLU:CA	2:B:21:GLU:CB	2:B:21:GLU:CG	2:B:21:GLU:CD	16	3.5
(1,147)	2:B:21:GLU:CA	2:B:21:GLU:CB	2:B:21:GLU:CG	2:B:21:GLU:CD	16	3.5
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	20	3.4
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	20	3.4
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	20	3.4
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	3	3.4
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	3	3.4
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	3	3.4

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	11	3.4
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	11	3.4
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	11	3.4
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	1	3.4
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	1	3.4
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	1	3.4
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	19	3.3
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	19	3.3
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	19	3.3
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	5	3.3
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	5	3.3
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	5	3.3
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	6	3.3
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	6	3.3
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	6	3.3
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	12	3.3
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	12	3.3
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	12	3.3
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	15	3.3
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	15	3.3
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	15	3.3
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	14	3.1
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	14	3.1
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	14	3.1
(1,87)	2:B:29:LYS:C	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:C	2	3.0
(1,87)	2:B:29:LYS:C	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:C	2	3.0
(1,87)	2:B:29:LYS:C	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:C	2	3.0
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	11	3.0
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	11	3.0
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	11	3.0
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	14	3.0
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	14	3.0
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	14	3.0
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	15	3.0
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	15	3.0
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	15	3.0
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	20	2.9
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	20	2.9
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	20	2.9
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	6	2.9
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	6	2.9
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	6	2.9
(1,29)	1:A:15:GLN:C	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:C	15	2.9
(1,29)	1:A:15:GLN:C	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:C	15	2.9
(1,29)	1:A:15:GLN:C	1:A:16:LEU:N	1:A:16:LEU:CA	1:A:16:LEU:C	15	2.9
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	4	2.8
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	4	2.8
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	4	2.8
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	19	2.8
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	19	2.8
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	19	2.8

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	15	2.8
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	15	2.8
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	15	2.8
(1,37)	1:A:19:TYR:C	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:C	5	2.8
(1,37)	1:A:19:TYR:C	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:C	5	2.8
(1,37)	1:A:19:TYR:C	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:C	5	2.8
(1,37)	1:A:19:TYR:C	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:C	16	2.8
(1,37)	1:A:19:TYR:C	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:C	16	2.8
(1,37)	1:A:19:TYR:C	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:C	16	2.8
(1,127)	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	2:B:4:GLN:CD	19	2.8
(1,127)	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	2:B:4:GLN:CD	19	2.8
(1,127)	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	2:B:4:GLN:CD	19	2.8
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	12	2.8
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	12	2.8
(1,114)	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:CB	1:A:17:GLU:CG	12	2.8
(1,7)	1:A:4:GLU:C	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:C	2	2.7
(1,7)	1:A:4:GLU:C	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:C	2	2.7
(1,7)	1:A:4:GLU:C	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:C	2	2.7
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	18	2.7
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	18	2.7
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	18	2.7
(1,157)	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	9	2.7
(1,157)	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	9	2.7
(1,157)	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	2:B:29:LYS:CE	9	2.7
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	20	2.7
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	20	2.7
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	20	2.7
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	13	2.6
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	13	2.6
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	13	2.6
(1,37)	1:A:19:TYR:C	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:C	3	2.6
(1,37)	1:A:19:TYR:C	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:C	3	2.6
(1,37)	1:A:19:TYR:C	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:C	3	2.6
(1,7)	1:A:4:GLU:C	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:C	3	2.5
(1,7)	1:A:4:GLU:C	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:C	3	2.5
(1,7)	1:A:4:GLU:C	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:C	3	2.5
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	5	2.5
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	5	2.5
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	5	2.5
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	18	2.5
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	18	2.5
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	18	2.5
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	20	2.5
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	20	2.5
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	20	2.5
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	13	2.5
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	13	2.5
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	13	2.5
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	10	2.5
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	10	2.5
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	10	2.5

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	13	2.5
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	13	2.5
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	13	2.5
(1,89)	2:B:30:THR:C	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:C	10	2.4
(1,89)	2:B:30:THR:C	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:C	10	2.4
(1,89)	2:B:30:THR:C	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:C	10	2.4
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	16	2.4
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	16	2.4
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	16	2.4
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	5	2.4
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	5	2.4
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	5	2.4
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	4	2.3
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	4	2.3
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	4	2.3
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	13	2.3
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	13	2.3
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	13	2.3
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	14	2.3
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	14	2.3
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	14	2.3
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	17	2.3
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	17	2.3
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	17	2.3
(1,25)	1:A:13:LEU:C	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:C	20	2.3
(1,25)	1:A:13:LEU:C	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:C	20	2.3
(1,25)	1:A:13:LEU:C	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:C	20	2.3
(1,121)	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	4	2.3
(1,121)	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	4	2.3
(1,121)	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	4	2.3
(1,120)	1:A:21:LYS:CA	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	17	2.3
(1,120)	1:A:21:LYS:CA	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	17	2.3
(1,120)	1:A:21:LYS:CA	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	17	2.3
(1,87)	2:B:29:LYS:C	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:C	15	2.2
(1,87)	2:B:29:LYS:C	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:C	15	2.2
(1,87)	2:B:29:LYS:C	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:C	15	2.2
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	7	2.2
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	7	2.2
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	7	2.2
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	4	2.2
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	4	2.2
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	4	2.2
(1,37)	1:A:19:TYR:C	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:C	10	2.2
(1,37)	1:A:19:TYR:C	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:C	10	2.2
(1,37)	1:A:19:TYR:C	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:C	10	2.2
(1,37)	1:A:19:TYR:C	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:C	13	2.2
(1,37)	1:A:19:TYR:C	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:C	13	2.2
(1,37)	1:A:19:TYR:C	1:A:20:CYS:N	1:A:20:CYS:CA	1:A:20:CYS:C	13	2.2
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	5	2.2
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	5	2.2
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	5	2.2

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,127)	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	2:B:4:GLN:CD	2	2.2
(1,127)	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	2:B:4:GLN:CD	2	2.2
(1,127)	2:B:4:GLN:CA	2:B:4:GLN:CB	2:B:4:GLN:CG	2:B:4:GLN:CD	2	2.2
(1,93)	1:A:2:ILE:CA	1:A:2:ILE:CB	1:A:2:ILE:CG1	1:A:2:ILE:CD1	3	2.1
(1,93)	1:A:2:ILE:CA	1:A:2:ILE:CB	1:A:2:ILE:CG1	1:A:2:ILE:CD1	3	2.1
(1,93)	1:A:2:ILE:CA	1:A:2:ILE:CB	1:A:2:ILE:CG1	1:A:2:ILE:CD1	3	2.1
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	11	2.1
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	11	2.1
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	11	2.1
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	7	2.1
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	7	2.1
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	7	2.1
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	12	2.1
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	12	2.1
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	12	2.1
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	18	2.1
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	18	2.1
(1,160)	2:B:31:LYS:N	2:B:31:LYS:CA	2:B:31:LYS:CB	2:B:31:LYS:CG	18	2.1
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	2	2.0
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	2	2.0
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	2	2.0
(1,149)	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	4	2.0
(1,149)	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	4	2.0
(1,149)	2:B:22:ARG:CA	2:B:22:ARG:CB	2:B:22:ARG:CG	2:B:22:ARG:CD	4	2.0
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	3	1.9
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	3	1.9
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	3	1.9
(1,155)	2:B:29:LYS:N	2:B:29:LYS:CA	2:B:29:LYS:CB	2:B:29:LYS:CG	7	1.9
(1,155)	2:B:29:LYS:N	2:B:29:LYS:CA	2:B:29:LYS:CB	2:B:29:LYS:CG	7	1.9
(1,155)	2:B:29:LYS:N	2:B:29:LYS:CA	2:B:29:LYS:CB	2:B:29:LYS:CG	7	1.9
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	19	1.9
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	19	1.9
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	19	1.9
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	8	1.8
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	8	1.8
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	8	1.8
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	3	1.8
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	3	1.8
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	3	1.8
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	16	1.8
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	16	1.8
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	16	1.8
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	17	1.8
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	17	1.8
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	17	1.8
(1,156)	2:B:29:LYS:CA	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	9	1.8
(1,156)	2:B:29:LYS:CA	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	9	1.8
(1,156)	2:B:29:LYS:CA	2:B:29:LYS:CB	2:B:29:LYS:CG	2:B:29:LYS:CD	9	1.8
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	8	1.8
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	8	1.8
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	8	1.8

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,120)	1:A:21:LYS:CA	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	5	1.8
(1,120)	1:A:21:LYS:CA	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	5	1.8
(1,120)	1:A:21:LYS:CA	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	5	1.8
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	7	1.7
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	7	1.7
(1,67)	2:B:15:LEU:C	2:B:16:TYR:N	2:B:16:TYR:CA	2:B:16:TYR:C	7	1.7
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	9	1.7
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	9	1.7
(1,65)	2:B:14:ALA:C	2:B:15:LEU:N	2:B:15:LEU:CA	2:B:15:LEU:C	9	1.7
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	2	1.7
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	2	1.7
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	2	1.7
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	17	1.7
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	17	1.7
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	17	1.7
(1,1)	1:A:1:GLY:C	1:A:2:ILE:N	1:A:2:ILE:CA	1:A:2:ILE:C	3	1.7
(1,1)	1:A:1:GLY:C	1:A:2:ILE:N	1:A:2:ILE:CA	1:A:2:ILE:C	3	1.7
(1,1)	1:A:1:GLY:C	1:A:2:ILE:N	1:A:2:ILE:CA	1:A:2:ILE:C	3	1.7
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	1	1.6
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	1	1.6
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	1	1.6
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	8	1.6
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	8	1.6
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	8	1.6
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	9	1.6
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	9	1.6
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	9	1.6
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	10	1.6
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	10	1.6
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	10	1.6
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	17	1.6
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	17	1.6
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	17	1.6
(1,121)	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	9	1.6
(1,121)	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	9	1.6
(1,121)	1:A:21:LYS:CB	1:A:21:LYS:CG	1:A:21:LYS:CD	1:A:21:LYS:CE	9	1.6
(1,102)	1:A:9:SER:N	1:A:9:SER:CA	1:A:9:SER:CB	1:A:9:SER:OG	14	1.6
(1,102)	1:A:9:SER:N	1:A:9:SER:CA	1:A:9:SER:CB	1:A:9:SER:OG	14	1.6
(1,102)	1:A:9:SER:N	1:A:9:SER:CA	1:A:9:SER:CB	1:A:9:SER:OG	14	1.6
(1,77)	2:B:21:GLU:C	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:C	17	1.5
(1,77)	2:B:21:GLU:C	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:C	17	1.5
(1,77)	2:B:21:GLU:C	2:B:22:ARG:N	2:B:22:ARG:CA	2:B:22:ARG:C	17	1.5
(1,7)	1:A:4:GLU:C	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:C	19	1.5
(1,7)	1:A:4:GLU:C	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:C	19	1.5
(1,7)	1:A:4:GLU:C	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:C	19	1.5
(1,59)	2:B:11:LEU:C	2:B:12:VAL:N	2:B:12:VAL:CA	2:B:12:VAL:C	11	1.5
(1,59)	2:B:11:LEU:C	2:B:12:VAL:N	2:B:12:VAL:CA	2:B:12:VAL:C	11	1.5
(1,59)	2:B:11:LEU:C	2:B:12:VAL:N	2:B:12:VAL:CA	2:B:12:VAL:C	11	1.5
(1,7)	1:A:4:GLU:C	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:C	1	1.4
(1,7)	1:A:4:GLU:C	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:C	1	1.4
(1,7)	1:A:4:GLU:C	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:C	1	1.4

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,7)	1:A:4:GLU:C	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:C	8	1.4
(1,7)	1:A:4:GLU:C	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:C	8	1.4
(1,7)	1:A:4:GLU:C	1:A:5:GLN:N	1:A:5:GLN:CA	1:A:5:GLN:C	8	1.4
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	8	1.4
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	8	1.4
(1,3)	1:A:2:ILE:C	1:A:3:VAL:N	1:A:3:VAL:CA	1:A:3:VAL:C	8	1.4
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	6	1.4
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	6	1.4
(1,132)	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:CB	2:B:9:SER:OG	6	1.4
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	16	1.4
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	16	1.4
(1,103)	1:A:10:ILE:N	1:A:10:ILE:CA	1:A:10:ILE:CB	1:A:10:ILE:CG1	16	1.4
(1,1)	1:A:1:GLY:C	1:A:2:ILE:N	1:A:2:ILE:CA	1:A:2:ILE:C	7	1.4
(1,1)	1:A:1:GLY:C	1:A:2:ILE:N	1:A:2:ILE:CA	1:A:2:ILE:C	7	1.4
(1,1)	1:A:1:GLY:C	1:A:2:ILE:N	1:A:2:ILE:CA	1:A:2:ILE:C	7	1.4
(1,5)	1:A:3:VAL:C	1:A:4:GLU:N	1:A:4:GLU:CA	1:A:4:GLU:C	11	1.3
(1,5)	1:A:3:VAL:C	1:A:4:GLU:N	1:A:4:GLU:CA	1:A:4:GLU:C	11	1.3
(1,5)	1:A:3:VAL:C	1:A:4:GLU:N	1:A:4:GLU:CA	1:A:4:GLU:C	11	1.3
(1,25)	1:A:13:LEU:C	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:C	9	1.3
(1,25)	1:A:13:LEU:C	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:C	9	1.3
(1,25)	1:A:13:LEU:C	1:A:14:TYR:N	1:A:14:TYR:CA	1:A:14:TYR:C	9	1.3
(1,96)	1:A:4:GLU:CA	1:A:4:GLU:CB	1:A:4:GLU:CG	1:A:4:GLU:CD	14	1.2
(1,96)	1:A:4:GLU:CA	1:A:4:GLU:CB	1:A:4:GLU:CG	1:A:4:GLU:CD	14	1.2
(1,96)	1:A:4:GLU:CA	1:A:4:GLU:CB	1:A:4:GLU:CG	1:A:4:GLU:CD	14	1.2
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	11	1.2
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	11	1.2
(1,79)	2:B:23:GLY:C	2:B:24:PHE:N	2:B:24:PHE:CA	2:B:24:PHE:C	11	1.2
(1,55)	2:B:9:SER:C	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:C	9	1.2
(1,55)	2:B:9:SER:C	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:C	9	1.2
(1,55)	2:B:9:SER:C	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:C	9	1.2
(1,55)	2:B:9:SER:C	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:C	13	1.2
(1,55)	2:B:9:SER:C	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:C	13	1.2
(1,55)	2:B:9:SER:C	2:B:10:HIS:N	2:B:10:HIS:CA	2:B:10:HIS:C	13	1.2
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	11	1.2
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	11	1.2
(1,53)	2:B:8:GLY:C	2:B:9:SER:N	2:B:9:SER:CA	2:B:9:SER:C	11	1.2
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	15	1.2
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	15	1.2
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	15	1.2
(1,87)	2:B:29:LYS:C	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:C	17	1.1
(1,87)	2:B:29:LYS:C	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:C	17	1.1
(1,87)	2:B:29:LYS:C	2:B:30:THR:N	2:B:30:THR:CA	2:B:30:THR:C	17	1.1
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	13	1.1
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	13	1.1
(1,31)	1:A:16:LEU:C	1:A:17:GLU:N	1:A:17:GLU:CA	1:A:17:GLU:C	13	1.1
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	9	1.1
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	9	1.1
(1,23)	1:A:12:SER:C	1:A:13:LEU:N	1:A:13:LEU:CA	1:A:13:LEU:C	9	1.1
(1,165)	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	2:B:32:ARG:CD	1	1.1
(1,165)	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	2:B:32:ARG:CD	1	1.1
(1,165)	2:B:32:ARG:CA	2:B:32:ARG:CB	2:B:32:ARG:CG	2:B:32:ARG:CD	1	1.1

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Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,1)	1:A:1:GLY:C	1:A:2:ILE:N	1:A:2:ILE:CA	1:A:2:ILE:C	8	1.1
(1,1)	1:A:1:GLY:C	1:A:2:ILE:N	1:A:2:ILE:CA	1:A:2:ILE:C	8	1.1
(1,1)	1:A:1:GLY:C	1:A:2:ILE:N	1:A:2:ILE:CA	1:A:2:ILE:C	8	1.1
(1,1)	1:A:1:GLY:C	1:A:2:ILE:N	1:A:2:ILE:CA	1:A:2:ILE:C	14	1.1
(1,1)	1:A:1:GLY:C	1:A:2:ILE:N	1:A:2:ILE:CA	1:A:2:ILE:C	14	1.1
(1,1)	1:A:1:GLY:C	1:A:2:ILE:N	1:A:2:ILE:CA	1:A:2:ILE:C	14	1.1