



Full wwPDB NMR Structure Validation Report ⓘ

Dec 24, 2024 – 06:26 PM EST

PDB ID : 2LU5
BMRB ID : 18509
Title : Structure and chemical shifts of Cu(I),Zn(II) superoxide dismutase by solid-state NMR
Authors : Knight, M.J.; Pell, A.J.; Bertini, I.; Felli, I.C.; Gonnelli, L.; Pierattelli, R.; Herrmann, T.; Emsley, L.; Pintacuda, G.
Deposited on : 2012-06-08

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 : 20231227.v01 (using entries in the PDB archive December 27th 2023)
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) : 2.40

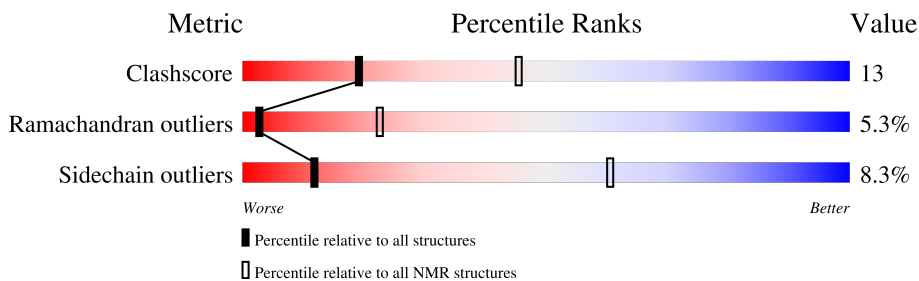
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

SOLID-STATE NMR

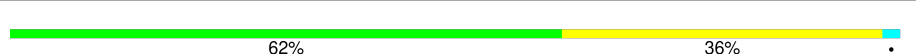
The overall completeness of chemical shifts assignment is 27%.

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	210492	14027
Ramachandran outliers	207382	12486
Sidechain outliers	206894	12463

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	153	 62% 36% .

2 Ensemble composition and analysis i

This entry contains 19 models. Model 14 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 target function*.

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:1-A:80, A:84-A:153 (150)	2.05	14

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 3 clusters and 12 single-model clusters were found.

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

3 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 2195 atoms, of which 1085 are hydrogens and 0 are deuteriums.

- Molecule 1 is a protein called Superoxide dismutase [Cu-Zn].

Mol	Chain	Residues	Atoms						Trace
			Total	C	H	N	O	S	
1	A	153	2194	679	1085	203	225	2	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	6	ALA	CYS	engineered mutation	UNP P00441
A	111	SER	CYS	engineered mutation	UNP P00441

- Molecule 2 is COPPER (II) ION (three-letter code: CU) (formula: Cu).

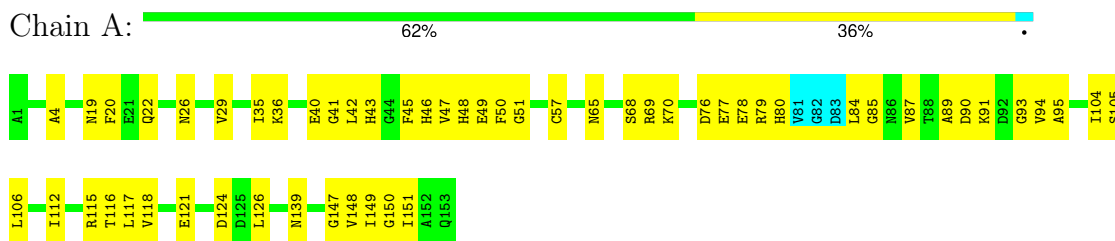
Mol	Chain	Residues	Atoms	
			Total	Cu
2	A	1	1	1

4 Residue-property plots [i](#)

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: Superoxide dismutase [Cu-Zn]

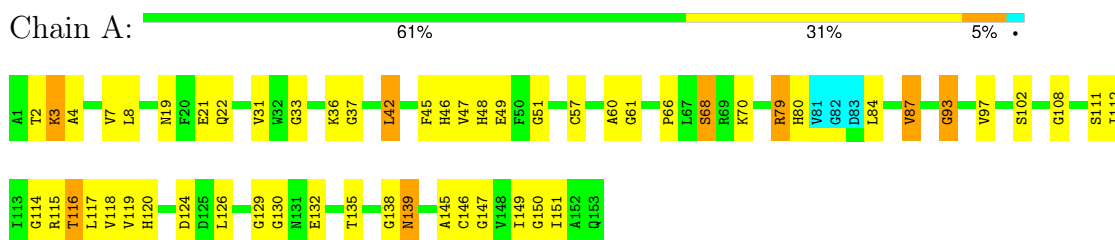


4.2 Scores per residue for each member of the ensemble

Colouring as in section 4.1 above.

4.2.1 Score per residue for model 1

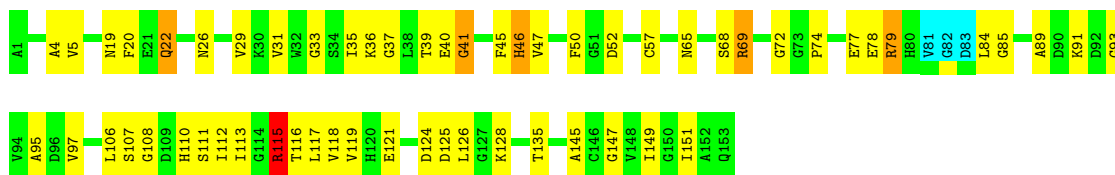
- Molecule 1: Superoxide dismutase [Cu-Zn]



4.2.2 Score per residue for model 2

- Molecule 1: Superoxide dismutase [Cu-Zn]





4.2.3 Score per residue for model 3

- Molecule 1: Superoxide dismutase [Cu-Zn]

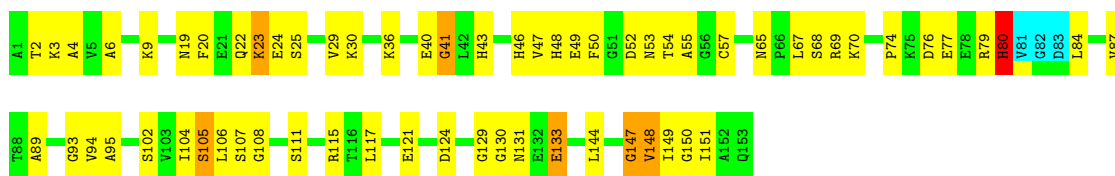
Chain A: 65% 29% 5%



4.2.4 Score per residue for model 4

- Molecule 1: Superoxide dismutase [Cu-Zn]

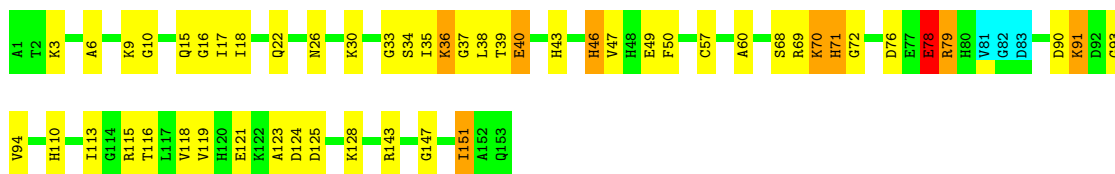
Chain A: 56% 37% 5%



4.2.5 Score per residue for model 5

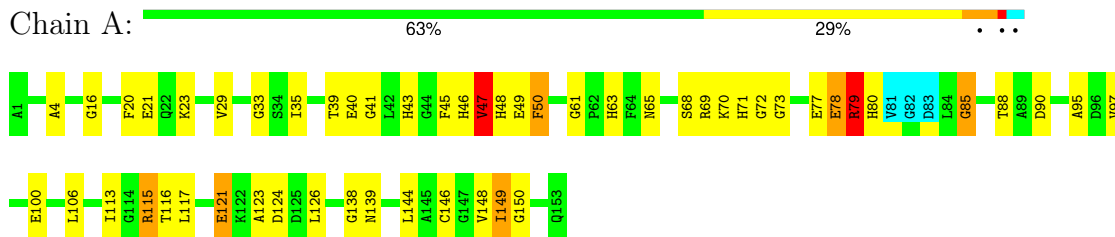
- Molecule 1: Superoxide dismutase [Cu-Zn]

Chain A: 64% 28% 5%



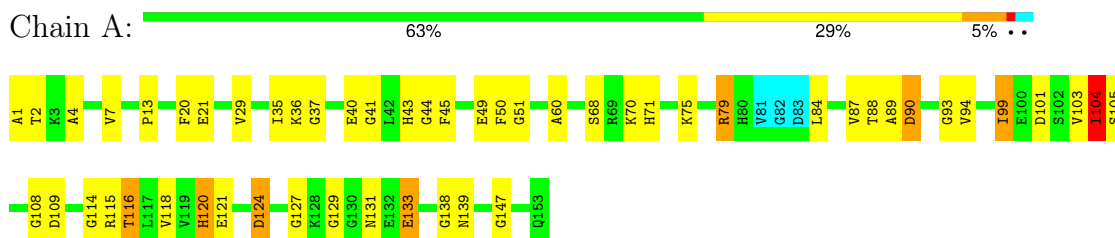
4.2.6 Score per residue for model 6

- Molecule 1: Superoxide dismutase [Cu-Zn]



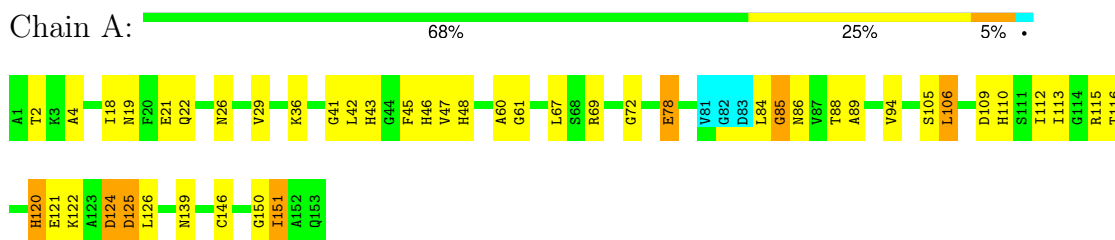
4.2.7 Score per residue for model 7

- Molecule 1: Superoxide dismutase [Cu-Zn]



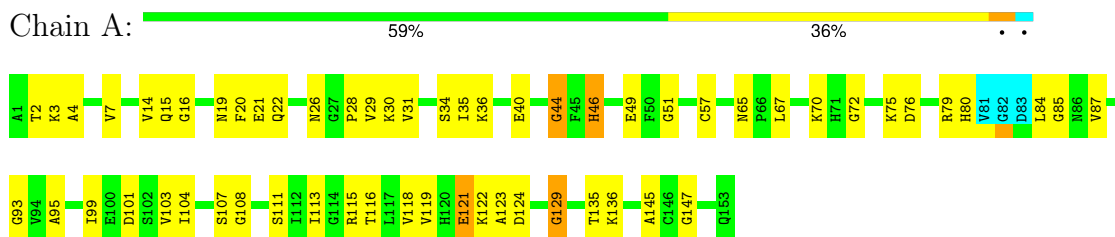
4.2.8 Score per residue for model 8

- Molecule 1: Superoxide dismutase [Cu-Zn]



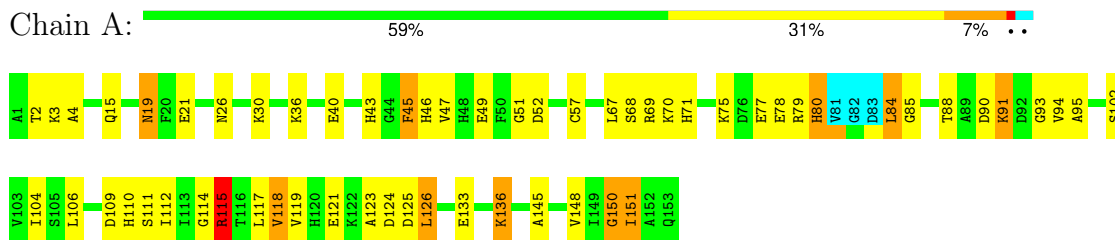
4.2.9 Score per residue for model 9

- Molecule 1: Superoxide dismutase [Cu-Zn]



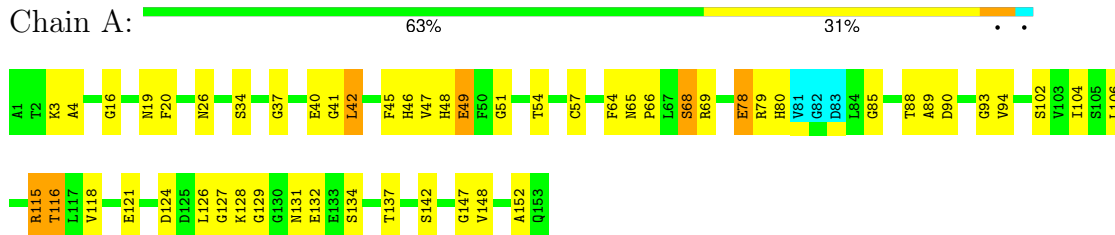
4.2.10 Score per residue for model 10

- Molecule 1: Superoxide dismutase [Cu-Zn]



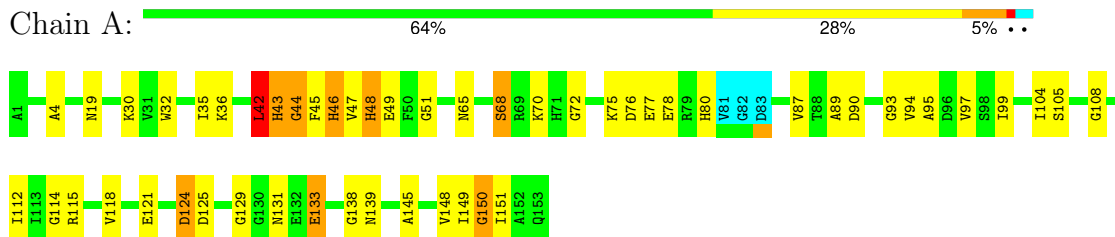
4.2.11 Score per residue for model 11

- Molecule 1: Superoxide dismutase [Cu-Zn]



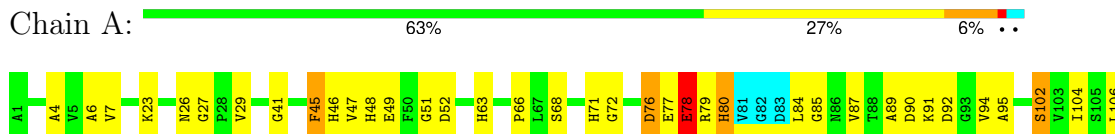
4.2.12 Score per residue for model 12

- Molecule 1: Superoxide dismutase [Cu-Zn]



4.2.13 Score per residue for model 13

- Molecule 1: Superoxide dismutase [Cu-Zn]

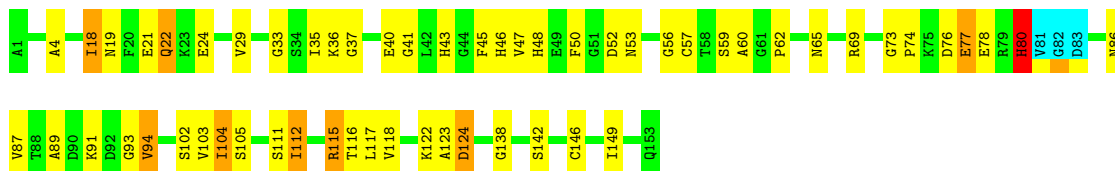




4.2.14 Score per residue for model 14 (medoid)

- Molecule 1: Superoxide dismutase [Cu-Zn]

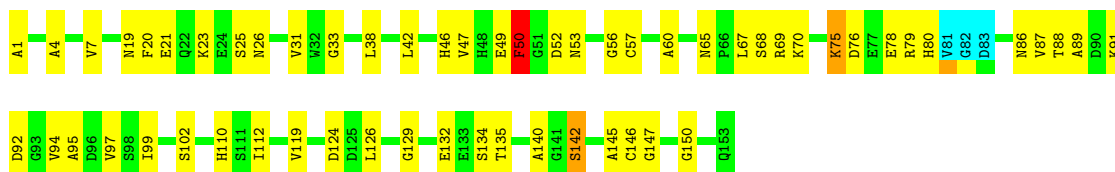
Chain A: 61% 31% 5% ...



4.2.15 Score per residue for model 15

- Molecule 1: Superoxide dismutase [Cu-Zn]

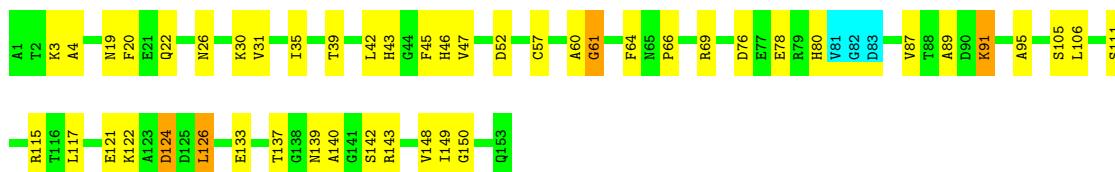
Chain A: 60% 36% ...



4.2.16 Score per residue for model 16

- Molecule 1: Superoxide dismutase [Cu-Zn]

Chain A: 67% 28% ...

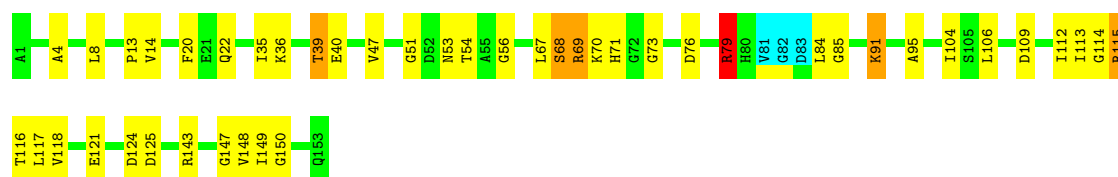


4.2.17 Score per residue for model 17

- Molecule 1: Superoxide dismutase [Cu-Zn]

Chain A: 69% 25% ...

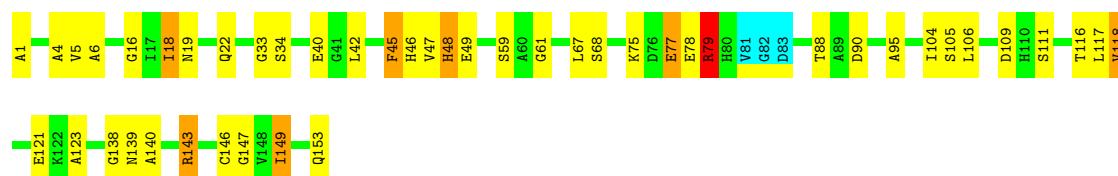




4.2.18 Score per residue for model 18

- Molecule 1: Superoxide dismutase [Cu-Zn]

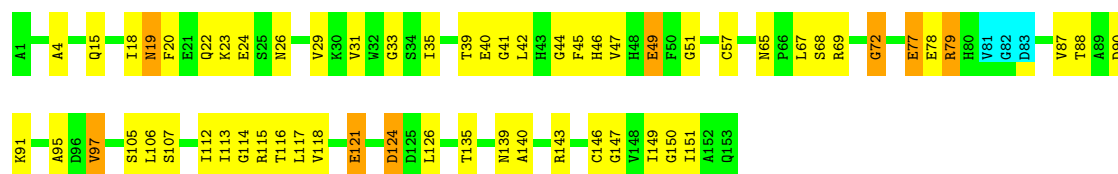
Chain A: 68% 25% 5% ..



4.2.19 Score per residue for model 19

- Molecule 1: Superoxide dismutase [Cu-Zn]

Chain A: 59% 34% 5% .



5 Refinement protocol and experimental data overview

The models were refined using the following method: *torsion angle dynamics*.

Of the 80 calculated structures, 19 were deposited, based on the following criterion: *target function*.

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

Software name	Classification	Version
CYANA	structure solution	
CNS	refinement	

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	517
Number of shifts mapped to atoms	517
Number of unparsed shifts	0
Number of shifts with mapping errors	0
Number of shifts with mapping warnings	0
Assignment completeness (well-defined parts)	27%

Note: This is a solid-state NMR structure, where hydrogen atoms are typically not assigned a chemical shift value, which may lead to lower completeness of assignment measure.

6 Model quality i

6.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section: CU

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	1.14±0.04	3±2/1108 (0.3± 0.1%)	0.93±0.03	3±1/1493 (0.2± 0.1%)
All	All	1.14	53/21052 (0.3%)	0.93	48/28367 (0.2%)

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

Mol	Chain	Chirality	Planarity
1	A	0.0±0.0	0.3±0.6
All	All	0	6

All unique bond 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(Å)	Ideal(Å)	Models	
								Worst	Total
1	A	138	GLY	C-O	9.85	1.39	1.23	18	2
1	A	118	VAL	C-O	7.93	1.38	1.23	18	5
1	A	45	PHE	C-O	6.48	1.35	1.23	18	3
1	A	108	GLY	N-CA	-6.38	1.36	1.46	4	2
1	A	150	GLY	N-CA	-6.37	1.36	1.46	12	4
1	A	150	GLY	CA-C	-6.19	1.42	1.51	16	5
1	A	46	HIS	C-O	5.90	1.34	1.23	9	3
1	A	105	SER	C-N	-5.73	1.20	1.34	18	2
1	A	37	GLY	N-CA	-5.71	1.37	1.46	5	1
1	A	106	LEU	N-CA	-5.64	1.35	1.46	8	2
1	A	139	ASN	C-O	5.62	1.34	1.23	7	3
1	A	108	GLY	CA-C	-5.55	1.43	1.51	7	1
1	A	78	GLU	CD-OE2	-5.47	1.19	1.25	13	1
1	A	145	ALA	N-CA	-5.46	1.35	1.46	13	1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)	Models	
								Worst	Total
1	A	107	SER	N-CA	-5.45	1.35	1.46	9	2
1	A	114	GLY	N-CA	-5.39	1.38	1.46	7	1
1	A	90	ASP	C-N	-5.38	1.21	1.34	7	1
1	A	105	SER	N-CA	-5.37	1.35	1.46	4	1
1	A	41	GLY	N-CA	-5.34	1.38	1.46	2	1
1	A	106	LEU	C-N	-5.33	1.21	1.34	8	1
1	A	114	GLY	CA-C	-5.32	1.43	1.51	7	1
1	A	140	ALA	C-O	5.31	1.33	1.23	15	1
1	A	68	SER	N-CA	-5.15	1.36	1.46	11	1
1	A	40	GLU	C-N	-5.15	1.23	1.33	2	1
1	A	124	ASP	CB-CG	5.14	1.62	1.51	13	1
1	A	85	GLY	N-CA	-5.13	1.38	1.46	17	1
1	A	147	GLY	N-CA	-5.12	1.38	1.46	2	1
1	A	115	ARG	NE-CZ	5.08	1.39	1.33	10	1
1	A	107	SER	C-N	-5.08	1.24	1.33	2	1
1	A	79	ARG	N-CA	-5.06	1.36	1.46	17	1
1	A	68	SER	CA-CB	-5.00	1.45	1.52	12	1

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
1	A	124	ASP	CB-CG-OD1	10.70	127.93	118.30	12	17
1	A	124	ASP	CB-CG-OD2	8.81	126.23	118.30	16	14
1	A	124	ASP	OD1-CG-OD2	-8.03	108.04	123.30	13	17

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	115	ARG	Sidechain	2
1	A	69	ARG	Sidechain	1
1	A	80	HIS	Peptide	1
1	A	45	PHE	Mainchain	1
1	A	79	ARG	Sidechain	1

6.2 Too-close contacts

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	1090	1069	1061	27±5
All	All	20729	20311	20157	512

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 13.

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

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:116:THR:HB	1:A:146:CYS:SG	0.77	2.19	6	3
1:A:60:ALA:HB2	1:A:116:THR:HB	0.76	1.57	7	1
1:A:87:VAL:HB	1:A:95:ALA:HB1	0.75	1.58	9	4
1:A:57:CYS:SG	1:A:143:ARG:HA	0.73	2.22	19	3
1:A:67:LEU:O	1:A:78:GLU:HA	0.71	1.86	10	1
1:A:41:GLY:HA3	1:A:89:ALA:O	0.70	1.86	13	5
1:A:57:CYS:SG	1:A:118:VAL:HG21	0.70	2.26	10	1
1:A:4:ALA:HB3	1:A:20:PHE:H	0.70	1.45	3	10
1:A:115:ARG:HD3	1:A:149:ILE:O	0.69	1.86	6	2
1:A:116:THR:HA	1:A:147:GLY:O	0.68	1.89	5	8
1:A:51:GLY:HA2	1:A:114:GLY:O	0.66	1.91	17	4
1:A:35:ILE:O	1:A:94:VAL:HA	0.65	1.92	5	4
1:A:36:LYS:HA	1:A:93:GLY:O	0.64	1.92	10	8
1:A:37:GLY:O	1:A:93:GLY:HA3	0.64	1.92	11	5
1:A:75:LYS:O	1:A:102:SER:HA	0.63	1.94	15	1
1:A:4:ALA:O	1:A:19:ASN:HA	0.63	1.94	8	9
1:A:110:HIS:HA	1:A:115:ARG:NE	0.63	2.08	10	1
1:A:143:ARG:HA	1:A:146:CYS:SG	0.62	2.35	18	1
1:A:43:HIS:O	1:A:123:ALA:HA	0.62	1.94	3	5
1:A:115:ARG:NH1	1:A:148:VAL:HB	0.62	2.10	6	1
1:A:67:LEU:O	1:A:79:ARG:HA	0.61	1.95	18	2
1:A:46:HIS:HB2	1:A:124:ASP:OD1	0.61	1.95	14	1
1:A:78:GLU:O	1:A:79:ARG:HG2	0.60	1.95	2	1
1:A:51:GLY:HA3	1:A:114:GLY:O	0.60	1.95	10	1
1:A:33:GLY:O	1:A:97:VAL:HB	0.60	1.97	1	2
1:A:48:HIS:CE1	1:A:60:ALA:HB3	0.60	2.31	8	1
1:A:117:LEU:HB3	1:A:149:ILE:HG21	0.60	1.74	17	2

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:68:SER:OG	1:A:76:ASP:HA	0.60	1.97	12	1
1:A:87:VAL:HG22	1:A:95:ALA:HB1	0.59	1.73	15	1
1:A:117:LEU:HD22	1:A:149:ILE:HB	0.59	1.72	16	1
1:A:40:GLU:HB3	1:A:90:ASP:C	0.59	2.18	10	2
1:A:57:CYS:HB2	1:A:60:ALA:HB3	0.59	1.73	16	3
1:A:39:THR:OG1	1:A:91:LYS:HA	0.59	1.97	17	2
1:A:68:SER:HA	1:A:79:ARG:O	0.59	1.98	1	4
1:A:79:ARG:NE	1:A:79:ARG:HA	0.59	2.13	13	1
1:A:46:HIS:CE1	1:A:85:GLY:HA3	0.58	2.34	6	1
1:A:72:GLY:HA3	1:A:80:HIS:C	0.58	2.19	6	1
1:A:118:VAL:HA	1:A:146:CYS:HB3	0.58	1.74	13	1
1:A:22:GLN:HG2	1:A:105:SER:O	0.57	1.99	16	1
1:A:46:HIS:HA	1:A:118:VAL:O	0.57	2.00	5	1
1:A:119:VAL:O	1:A:145:ALA:HB3	0.57	1.99	1	5
1:A:115:ARG:HD3	1:A:116:THR:N	0.57	2.15	11	1
1:A:115:ARG:O	1:A:115:ARG:HD2	0.57	2.00	6	1
1:A:115:ARG:O	1:A:148:VAL:HA	0.57	1.99	16	3
1:A:88:THR:O	1:A:95:ALA:HA	0.57	2.00	15	5
1:A:129:GLY:HA2	1:A:134:SER:O	0.57	2.00	15	1
1:A:47:VAL:HB	1:A:49:GLU:OE2	0.57	2.00	12	1
1:A:53:ASN:HB3	1:A:56:GLY:O	0.56	2.01	17	3
1:A:112:ILE:HG13	1:A:151:ILE:O	0.56	2.00	2	1
1:A:48:HIS:ND1	1:A:60:ALA:HB3	0.56	2.14	8	1
1:A:51:GLY:H	1:A:115:ARG:HD3	0.56	1.60	10	1
1:A:112:ILE:O	1:A:150:GLY:HA2	0.56	2.00	8	3
1:A:29:VAL:HG12	1:A:31:VAL:HG13	0.55	1.76	19	1
1:A:9:LYS:O	1:A:55:ALA:HA	0.55	2.01	4	1
1:A:7:VAL:O	1:A:147:GLY:HA3	0.55	2.01	7	4
1:A:48:HIS:CG	1:A:60:ALA:HB3	0.55	2.36	8	1
1:A:111:SER:HB3	1:A:115:ARG:CZ	0.55	2.31	1	1
1:A:2:THR:O	1:A:3:LYS:HD2	0.55	2.02	4	1
1:A:124:ASP:HA	1:A:139:ASN:O	0.55	2.02	8	1
1:A:131:ASN:HB3	1:A:133:GLU:OE1	0.55	2.02	7	3
1:A:18:ILE:HG22	1:A:33:GLY:HA3	0.55	1.78	14	2
1:A:2:THR:O	1:A:21:GLU:HB3	0.54	2.02	1	2
1:A:115:ARG:O	1:A:149:ILE:HG12	0.54	2.01	1	1
1:A:48:HIS:HB2	1:A:116:THR:O	0.54	2.02	13	1
1:A:43:HIS:HA	1:A:87:VAL:O	0.54	2.01	14	1
1:A:68:SER:HA	1:A:79:ARG:HB2	0.54	1.76	18	1
1:A:60:ALA:HB2	1:A:116:THR:CB	0.54	2.30	7	1
1:A:3:LYS:HG3	1:A:152:ALA:O	0.54	2.02	11	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:131:ASN:N	1:A:134:SER:HB2	0.54	2.17	11	1
1:A:115:ARG:O	1:A:149:ILE:HB	0.54	2.02	4	1
1:A:29:VAL:HG11	1:A:103:VAL:HG12	0.54	1.79	14	1
1:A:22:GLN:HG3	1:A:106:LEU:HB3	0.54	1.78	2	1
1:A:68:SER:HA	1:A:78:GLU:OE1	0.54	2.03	13	1
1:A:65:ASN:OD1	1:A:66:PRO:HD2	0.54	2.03	11	1
1:A:27:GLY:O	1:A:102:SER:HB3	0.54	2.02	13	1
1:A:111:SER:O	1:A:115:ARG:HD3	0.54	2.03	16	1
1:A:68:SER:O	1:A:80:HIS:HA	0.53	2.03	10	1
1:A:64:PHE:O	1:A:66:PRO:HD3	0.53	2.03	16	1
1:A:68:SER:HB2	1:A:79:ARG:O	0.53	2.02	5	1
1:A:115:ARG:HD2	1:A:115:ARG:N	0.53	2.19	1	1
1:A:128:LYS:O	1:A:128:LYS:HD3	0.53	2.04	5	1
1:A:45:PHE:CG	1:A:124:ASP:HB3	0.53	2.39	13	1
1:A:115:ARG:NH2	1:A:148:VAL:HG13	0.53	2.18	17	1
1:A:45:PHE:CE1	1:A:47:VAL:HB	0.53	2.39	2	1
1:A:57:CYS:SG	1:A:118:VAL:HG22	0.53	2.43	9	3
1:A:125:ASP:HB3	1:A:128:LYS:HB3	0.53	1.79	5	1
1:A:2:THR:O	1:A:21:GLU:HA	0.53	2.03	8	1
1:A:44:GLY:HA2	1:A:87:VAL:N	0.53	2.19	12	1
1:A:46:HIS:CB	1:A:119:VAL:HA	0.53	2.33	15	1
1:A:33:GLY:H	1:A:97:VAL:HG11	0.53	1.63	6	2
1:A:15:GLN:O	1:A:35:ILE:HA	0.52	2.03	5	2
1:A:16:GLY:HA2	1:A:34:SER:O	0.52	2.04	5	3
1:A:19:ASN:O	1:A:31:VAL:HB	0.52	2.03	16	2
1:A:76:ASP:HA	1:A:80:HIS:CG	0.52	2.39	16	1
1:A:1:ALA:HA	1:A:22:GLN:O	0.52	2.05	18	1
1:A:77:GLU:O	1:A:78:GLU:HB3	0.52	2.04	12	1
1:A:7:VAL:N	1:A:148:VAL:HG11	0.52	2.20	13	1
1:A:61:GLY:HA2	1:A:142:SER:HB3	0.52	1.82	16	1
1:A:35:ILE:HB	1:A:95:ALA:HB3	0.52	1.81	17	1
1:A:57:CYS:SG	1:A:142:SER:HA	0.52	2.45	15	2
1:A:5:VAL:HA	1:A:18:ILE:O	0.52	2.05	18	1
1:A:47:VAL:CB	1:A:117:LEU:HD23	0.52	2.35	16	1
1:A:6:ALA:HB2	1:A:149:ILE:HA	0.51	1.82	18	1
1:A:57:CYS:SG	1:A:116:THR:HB	0.51	2.45	2	1
1:A:6:ALA:HB3	1:A:18:ILE:H	0.51	1.64	5	2
1:A:45:PHE:O	1:A:124:ASP:HB3	0.51	2.05	7	1
1:A:22:GLN:HE21	1:A:106:LEU:HG	0.51	1.65	19	1
1:A:42:LEU:HD23	1:A:43:HIS:N	0.51	2.21	16	1
1:A:20:PHE:CE1	1:A:106:LEU:HG	0.51	2.40	4	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:42:LEU:HG	1:A:120:HIS:O	0.51	2.06	1	1
1:A:112:ILE:H	1:A:112:ILE:HD13	0.51	1.66	14	1
1:A:6:ALA:HA	1:A:148:VAL:O	0.51	2.06	4	1
1:A:80:HIS:NE2	1:A:105:SER:HB2	0.51	2.20	14	1
1:A:42:LEU:HD22	1:A:87:VAL:HB	0.51	1.82	16	1
1:A:69:ARG:N	1:A:79:ARG:HB2	0.51	2.21	17	1
1:A:51:GLY:HA2	1:A:115:ARG:N	0.51	2.21	7	1
1:A:87:VAL:CB	1:A:95:ALA:HB1	0.51	2.35	9	1
1:A:6:ALA:HA	1:A:148:VAL:HG21	0.51	1.83	13	1
1:A:68:SER:HA	1:A:77:GLU:OE1	0.51	2.06	19	1
1:A:42:LEU:HB2	1:A:123:ALA:HB2	0.50	1.84	18	1
1:A:118:VAL:HA	1:A:146:CYS:CB	0.50	2.36	13	1
1:A:73:GLY:O	1:A:77:GLU:HG3	0.50	2.07	14	1
1:A:49:GLU:OE1	1:A:49:GLU:HA	0.50	2.04	19	1
1:A:69:ARG:O	1:A:70:LYS:HB2	0.50	2.06	5	1
1:A:113:ILE:HA	1:A:150:GLY:HA3	0.50	1.83	19	1
1:A:51:GLY:N	1:A:115:ARG:HD3	0.50	2.22	19	2
1:A:84:LEU:HD23	1:A:85:GLY:N	0.50	2.21	13	2
1:A:72:GLY:HA3	1:A:80:HIS:O	0.50	2.07	12	1
1:A:46:HIS:CD2	1:A:117:LEU:HD12	0.50	2.41	3	1
1:A:89:ALA:HA	1:A:94:VAL:O	0.49	2.07	3	2
1:A:49:GLU:N	1:A:115:ARG:HD2	0.49	2.22	11	1
1:A:67:LEU:O	1:A:78:GLU:HB3	0.49	2.07	19	1
1:A:45:PHE:CG	1:A:84:LEU:HB3	0.49	2.42	8	1
1:A:113:ILE:HA	1:A:115:ARG:NH1	0.49	2.22	17	1
1:A:69:ARG:HB2	1:A:78:GLU:HA	0.49	1.83	11	1
1:A:9:LYS:HD3	1:A:10:GLY:N	0.49	2.21	5	1
1:A:80:HIS:CD2	1:A:126:LEU:HG	0.49	2.42	10	1
1:A:129:GLY:CA	1:A:135:THR:HA	0.49	2.36	15	1
1:A:46:HIS:CD2	1:A:126:LEU:HB2	0.49	2.43	19	1
1:A:49:GLU:CD	1:A:65:ASN:HB3	0.49	2.27	4	1
1:A:29:VAL:HG12	1:A:104:ILE:HG23	0.49	1.83	7	1
1:A:84:LEU:HD23	1:A:85:GLY:H	0.49	1.68	13	1
1:A:16:GLY:HA3	1:A:34:SER:O	0.49	2.07	9	2
1:A:99:ILE:H	1:A:99:ILE:HD13	0.49	1.67	7	1
1:A:121:GLU:O	1:A:122:LYS:HG2	0.49	2.08	8	1
1:A:70:LYS:CB	1:A:79:ARG:HB2	0.49	2.38	15	1
1:A:66:PRO:O	1:A:70:LYS:HA	0.48	2.08	1	1
1:A:38:LEU:HA	1:A:92:ASP:OD1	0.48	2.08	15	1
1:A:3:LYS:O	1:A:151:ILE:HG12	0.48	2.08	10	2
1:A:40:GLU:HG3	1:A:121:GLU:O	0.48	2.08	11	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:22:GLN:HG3	1:A:105:SER:C	0.48	2.29	19	1
1:A:48:HIS:O	1:A:115:ARG:HG3	0.48	2.09	8	1
1:A:49:GLU:HG3	1:A:109:ASP:OD1	0.48	2.09	10	1
1:A:49:GLU:HB3	1:A:109:ASP:OD2	0.48	2.08	3	1
1:A:51:GLY:HA2	1:A:115:ARG:HA	0.48	1.86	11	4
1:A:2:THR:C	1:A:21:GLU:HG3	0.48	2.28	9	1
1:A:124:ASP:OD2	1:A:140:ALA:HB2	0.48	2.09	19	1
1:A:117:LEU:HD22	1:A:148:VAL:O	0.48	2.09	13	1
1:A:22:GLN:CG	1:A:106:LEU:HB3	0.48	2.38	2	1
1:A:45:PHE:O	1:A:47:VAL:HG12	0.48	2.09	3	1
1:A:39:THR:HB	1:A:90:ASP:O	0.48	2.09	6	1
1:A:57:CYS:SG	1:A:118:VAL:HB	0.48	2.49	11	1
1:A:19:ASN:O	1:A:31:VAL:HA	0.47	2.09	1	3
1:A:24:GLU:H	1:A:24:GLU:CD	0.47	2.13	14	2
1:A:45:PHE:HB3	1:A:85:GLY:C	0.47	2.28	2	1
1:A:40:GLU:O	1:A:90:ASP:HA	0.47	2.09	11	1
1:A:51:GLY:HA3	1:A:115:ARG:HA	0.47	1.86	13	1
1:A:75:LYS:O	1:A:104:ILE:HG13	0.47	2.09	12	1
1:A:21:GLU:O	1:A:29:VAL:HG23	0.47	2.09	6	1
1:A:110:HIS:HB3	1:A:113:ILE:O	0.47	2.10	2	2
1:A:65:ASN:O	1:A:70:LYS:HA	0.47	2.09	6	2
1:A:69:ARG:HA	1:A:78:GLU:HA	0.47	1.86	8	1
1:A:33:GLY:O	1:A:97:VAL:HG22	0.47	2.09	19	1
1:A:35:ILE:HG22	1:A:95:ALA:HB2	0.47	1.87	2	1
1:A:68:SER:HA	1:A:80:HIS:HB3	0.47	1.87	4	1
1:A:111:SER:O	1:A:115:ARG:HG3	0.47	2.09	9	1
1:A:86:ASN:O	1:A:97:VAL:HA	0.47	2.10	15	1
1:A:28:PRO:HB3	1:A:101:ASP:N	0.47	2.24	9	1
1:A:117:LEU:HB3	1:A:149:ILE:CD1	0.47	2.40	13	1
1:A:46:HIS:CB	1:A:119:VAL:HB	0.47	2.39	5	1
1:A:75:LYS:C	1:A:105:SER:HB3	0.46	2.31	12	1
1:A:22:GLN:HA	1:A:104:ILE:O	0.46	2.10	14	1
1:A:44:GLY:HA2	1:A:85:GLY:O	0.46	2.10	9	1
1:A:57:CYS:O	1:A:142:SER:HB2	0.46	2.10	14	1
1:A:67:LEU:C	1:A:79:ARG:HB2	0.46	2.31	19	1
1:A:40:GLU:O	1:A:121:GLU:HB3	0.46	2.09	4	4
1:A:45:PHE:HA	1:A:85:GLY:O	0.46	2.09	11	1
1:A:117:LEU:HD13	1:A:149:ILE:HB	0.46	1.87	16	1
1:A:112:ILE:HG22	1:A:150:GLY:HA2	0.46	1.88	15	1
1:A:112:ILE:O	1:A:115:ARG:HG2	0.46	2.10	19	1
1:A:89:ALA:HB3	1:A:121:GLU:HG2	0.46	1.88	11	2

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:50:PHE:CD2	1:A:59:SER:HB3	0.46	2.45	14	1
1:A:21:GLU:O	1:A:29:VAL:HB	0.46	2.10	9	1
1:A:77:GLU:HB2	1:A:79:ARG:HD2	0.46	1.86	18	1
1:A:84:LEU:HD13	1:A:85:GLY:N	0.46	2.26	10	1
1:A:40:GLU:OE2	1:A:122:LYS:HG2	0.46	2.09	14	1
1:A:115:ARG:HD3	1:A:149:ILE:C	0.46	2.31	6	2
1:A:69:ARG:CB	1:A:78:GLU:HA	0.46	2.41	11	1
1:A:14:VAL:HA	1:A:36:LYS:O	0.46	2.11	9	2
1:A:35:ILE:H	1:A:95:ALA:HB3	0.46	1.70	16	1
1:A:69:ARG:C	1:A:78:GLU:HA	0.45	2.32	2	1
1:A:116:THR:HB	1:A:147:GLY:HA2	0.45	1.88	13	1
1:A:22:GLN:NE2	1:A:106:LEU:HG	0.45	2.26	19	1
1:A:42:LEU:HA	1:A:87:VAL:O	0.45	2.11	19	1
1:A:67:LEU:C	1:A:69:ARG:H	0.45	2.14	15	3
1:A:111:SER:O	1:A:115:ARG:HD2	0.45	2.11	14	1
1:A:117:LEU:O	1:A:146:CYS:HA	0.45	2.11	3	1
1:A:68:SER:HB2	1:A:79:ARG:C	0.45	2.32	5	1
1:A:42:LEU:CB	1:A:88:THR:HA	0.45	2.41	8	1
1:A:2:THR:O	1:A:21:GLU:HB2	0.45	2.12	10	1
1:A:45:PHE:CD1	1:A:45:PHE:O	0.45	2.70	13	1
1:A:72:GLY:HA2	1:A:77:GLU:CG	0.45	2.41	19	1
1:A:76:ASP:HB3	1:A:78:GLU:OE1	0.45	2.11	5	1
1:A:40:GLU:N	1:A:90:ASP:HA	0.45	2.27	18	2
1:A:49:GLU:OE2	1:A:64:PHE:HA	0.45	2.12	3	1
1:A:46:HIS:O	1:A:47:VAL:HG23	0.45	2.12	13	1
1:A:46:HIS:O	1:A:47:VAL:HG13	0.45	2.12	6	1
1:A:3:LYS:NZ	1:A:3:LYS:HB3	0.45	2.27	1	1
1:A:68:SER:HA	1:A:77:GLU:C	0.45	2.31	6	1
1:A:13:PRO:HB3	1:A:120:HIS:HA	0.45	1.88	7	1
1:A:4:ALA:HA	1:A:151:ILE:HA	0.45	1.88	19	4
1:A:23:LYS:HG3	1:A:24:GLU:H	0.45	1.72	4	1
1:A:121:GLU:H	1:A:121:GLU:CD	0.45	2.15	5	4
1:A:113:ILE:HA	1:A:115:ARG:NE	0.45	2.26	6	1
1:A:107:SER:O	1:A:112:ILE:HA	0.45	2.11	19	1
1:A:46:HIS:HB2	1:A:125:ASP:HA	0.44	1.89	2	1
1:A:54:THR:O	1:A:147:GLY:HA2	0.44	2.12	17	1
1:A:49:GLU:HB3	1:A:110:HIS:HB2	0.44	1.88	5	1
1:A:57:CYS:HB2	1:A:60:ALA:CB	0.44	2.42	5	1
1:A:116:THR:HG22	1:A:146:CYS:HB3	0.44	1.89	8	1
1:A:47:VAL:HG13	1:A:117:LEU:HA	0.44	1.90	1	1
1:A:110:HIS:CG	1:A:115:ARG:HG2	0.44	2.47	3	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:125:ASP:HB3	1:A:128:LYS:CB	0.44	2.43	5	1
1:A:120:HIS:CD2	1:A:124:ASP:HB2	0.44	2.48	8	1
1:A:22:GLN:HG3	1:A:105:SER:O	0.44	2.12	19	1
1:A:22:GLN:HG3	1:A:29:VAL:HG12	0.44	1.89	4	1
1:A:60:ALA:HB1	1:A:118:VAL:HG13	0.44	1.89	7	1
1:A:42:LEU:HB3	1:A:88:THR:HG22	0.44	1.89	19	1
1:A:88:THR:HA	1:A:121:GLU:OE1	0.44	2.12	7	1
1:A:40:GLU:HB3	1:A:91:LYS:N	0.44	2.28	10	1
1:A:21:GLU:O	1:A:104:ILE:HA	0.44	2.13	14	1
1:A:47:VAL:HA	1:A:117:LEU:HA	0.44	1.89	14	1
1:A:75:LYS:O	1:A:101:ASP:HA	0.44	2.13	7	1
1:A:133:GLU:O	1:A:136:LYS:HG3	0.44	2.13	10	1
1:A:68:SER:HA	1:A:79:ARG:C	0.44	2.33	17	1
1:A:115:ARG:HH21	1:A:148:VAL:HG13	0.44	1.72	17	1
1:A:45:PHE:CD1	1:A:85:GLY:HA3	0.44	2.48	2	1
1:A:116:THR:CB	1:A:147:GLY:HA2	0.44	2.43	13	1
1:A:124:ASP:OD2	1:A:140:ALA:HA	0.44	2.13	16	1
1:A:74:PRO:HA	1:A:84:LEU:HG	0.44	1.90	2	1
1:A:4:ALA:HB3	1:A:20:PHE:N	0.44	2.28	16	1
1:A:49:GLU:CG	1:A:60:ALA:HB2	0.43	2.43	1	1
1:A:40:GLU:O	1:A:121:GLU:HB2	0.43	2.13	6	1
1:A:22:GLN:HB2	1:A:106:LEU:HA	0.43	1.89	8	1
1:A:57:CYS:O	1:A:142:SER:HB3	0.43	2.13	11	1
1:A:39:THR:HB	1:A:91:LYS:HB3	0.43	1.90	16	1
1:A:48:HIS:NE2	1:A:65:ASN:HB2	0.43	2.28	4	1
1:A:1:ALA:O	1:A:21:GLU:HA	0.43	2.12	7	2
1:A:113:ILE:HD12	1:A:113:ILE:H	0.43	1.72	19	1
1:A:45:PHE:CE1	1:A:126:LEU:HA	0.43	2.48	6	1
1:A:112:ILE:O	1:A:149:ILE:HG22	0.43	2.13	13	1
1:A:46:HIS:CE1	1:A:138:GLY:HA3	0.43	2.47	1	1
1:A:49:GLU:CB	1:A:110:HIS:HB2	0.43	2.44	5	1
1:A:89:ALA:CB	1:A:121:GLU:HB3	0.43	2.43	8	1
1:A:48:HIS:NE2	1:A:118:VAL:HG23	0.43	2.29	12	1
1:A:126:LEU:HA	1:A:135:THR:O	0.43	2.14	2	1
1:A:38:LEU:HD23	1:A:39:THR:N	0.43	2.29	5	1
1:A:44:GLY:HA3	1:A:87:VAL:H	0.43	1.73	7	1
1:A:42:LEU:HA	1:A:88:THR:HA	0.43	1.89	11	1
1:A:42:LEU:O	1:A:43:HIS:HB2	0.43	2.13	12	1
1:A:48:HIS:CD2	1:A:118:VAL:HB	0.43	2.48	18	1
1:A:5:VAL:O	1:A:149:ILE:HA	0.43	2.14	2	1
1:A:50:PHE:HA	1:A:111:SER:OG	0.43	2.13	4	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:40:GLU:OE2	1:A:122:LYS:HD3	0.43	2.14	9	1
1:A:52:ASP:OD1	1:A:57:CYS:HA	0.43	2.13	14	1
1:A:129:GLY:HA2	1:A:135:THR:HA	0.43	1.91	15	1
1:A:39:THR:HA	1:A:91:LYS:N	0.43	2.29	19	1
1:A:57:CYS:N	1:A:146:CYS:SG	0.43	2.87	15	3
1:A:31:VAL:HG13	1:A:99:ILE:HG21	0.43	1.91	15	1
1:A:46:HIS:O	1:A:47:VAL:HB	0.43	2.13	5	1
1:A:79:ARG:NH1	1:A:80:HIS:HB2	0.43	2.29	6	1
1:A:65:ASN:HB3	1:A:68:SER:OG	0.43	2.14	2	1
1:A:110:HIS:HA	1:A:115:ARG:HE	0.43	1.72	10	1
1:A:115:ARG:HH11	1:A:115:ARG:CA	0.43	2.26	10	1
1:A:50:PHE:CZ	1:A:60:ALA:HA	0.43	2.49	15	1
1:A:89:ALA:CB	1:A:121:GLU:HB2	0.43	2.44	16	1
1:A:49:GLU:CB	1:A:108:GLY:HA2	0.42	2.43	12	1
1:A:7:VAL:H	1:A:148:VAL:HG11	0.42	1.74	13	1
1:A:117:LEU:HB3	1:A:149:ILE:CG2	0.42	2.44	6	2
1:A:4:ALA:CB	1:A:151:ILE:HA	0.42	2.44	13	1
1:A:117:LEU:HD12	1:A:117:LEU:N	0.42	2.28	16	1
1:A:90:ASP:CG	1:A:91:LYS:H	0.42	2.17	19	1
1:A:74:PRO:O	1:A:84:LEU:HD13	0.42	2.14	4	1
1:A:17:ILE:O	1:A:33:GLY:HA2	0.42	2.15	5	1
1:A:41:GLY:N	1:A:90:ASP:HA	0.42	2.29	7	1
1:A:42:LEU:HB3	1:A:87:VAL:O	0.42	2.14	16	1
1:A:104:ILE:HD12	1:A:105:SER:N	0.42	2.30	4	1
1:A:147:GLY:O	1:A:148:VAL:HG23	0.42	2.14	4	1
1:A:71:HIS:O	1:A:127:GLY:HA2	0.42	2.14	7	1
1:A:46:HIS:HB2	1:A:117:LEU:HD12	0.42	1.90	13	1
1:A:54:THR:HA	1:A:147:GLY:O	0.42	2.14	4	1
1:A:70:LYS:HE2	1:A:76:ASP:OD2	0.42	2.14	4	1
1:A:18:ILE:HG12	1:A:46:HIS:HE2	0.42	1.74	8	1
1:A:116:THR:CG2	1:A:146:CYS:HB3	0.42	2.44	8	1
1:A:68:SER:OG	1:A:80:HIS:HB2	0.42	2.15	13	1
1:A:68:SER:N	1:A:79:ARG:HB2	0.42	2.28	19	1
1:A:29:VAL:HG22	1:A:101:ASP:H	0.42	1.74	3	1
1:A:39:THR:HA	1:A:91:LYS:HA	0.42	1.89	5	1
1:A:29:VAL:HG23	1:A:102:SER:HA	0.42	1.91	13	1
1:A:50:PHE:N	1:A:115:ARG:HG3	0.42	2.29	5	1
1:A:90:ASP:OD2	1:A:91:LYS:HG2	0.42	2.14	3	1
1:A:129:GLY:HA3	1:A:135:THR:HA	0.42	1.90	9	1
1:A:134:SER:HA	1:A:137:THR:HG22	0.42	1.91	11	1
1:A:117:LEU:O	1:A:146:CYS:HB2	0.42	2.13	13	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:115:ARG:NE	1:A:150:GLY:HA3	0.42	2.30	6	1
1:A:59:SER:O	1:A:62:PRO:HD3	0.42	2.15	14	1
1:A:46:HIS:HB3	1:A:119:VAL:HB	0.42	1.90	5	1
1:A:49:GLU:O	1:A:50:PHE:HB2	0.42	2.15	6	1
1:A:84:LEU:H	1:A:103:VAL:HG11	0.42	1.74	9	1
1:A:42:LEU:HA	1:A:122:LYS:C	0.42	2.35	16	1
1:A:47:VAL:HB	1:A:63:HIS:CD2	0.41	2.50	6	1
1:A:79:ARG:O	1:A:80:HIS:HB2	0.41	2.15	4	1
1:A:57:CYS:HB2	1:A:60:ALA:HB2	0.41	1.92	5	1
1:A:2:THR:HA	1:A:21:GLU:HG3	0.41	1.92	10	1
1:A:103:VAL:C	1:A:105:SER:H	0.41	2.19	7	1
1:A:127:GLY:C	1:A:128:LYS:HD2	0.41	2.35	11	1
1:A:44:GLY:HA2	1:A:87:VAL:H	0.41	1.73	12	1
1:A:69:ARG:HA	1:A:79:ARG:H	0.41	1.75	2	1
1:A:41:GLY:N	1:A:90:ASP:HB3	0.41	2.31	6	1
1:A:21:GLU:HB2	1:A:29:VAL:HG23	0.41	1.91	8	1
1:A:106:LEU:HG	1:A:112:ILE:HG22	0.41	1.92	17	1
1:A:16:GLY:HA3	1:A:35:ILE:HD13	0.41	1.93	6	1
1:A:90:ASP:C	1:A:92:ASP:H	0.41	2.19	13	1
1:A:74:PRO:C	1:A:76:ASP:H	0.41	2.19	14	1
1:A:27:GLY:H	1:A:103:VAL:HG22	0.41	1.75	3	1
1:A:72:GLY:C	1:A:126:LEU:HB3	0.41	2.36	6	1
1:A:45:PHE:HB3	1:A:124:ASP:CB	0.41	2.45	10	1
1:A:68:SER:HB3	1:A:78:GLU:H	0.41	1.75	12	1
1:A:67:LEU:O	1:A:79:ARG:HB2	0.41	2.15	17	1
1:A:72:GLY:HA2	1:A:79:ARG:HB2	0.41	1.92	2	1
1:A:8:LEU:HB3	1:A:117:LEU:HD21	0.41	1.92	3	1
1:A:22:GLN:O	1:A:22:GLN:HG3	0.41	2.14	8	1
1:A:3:LYS:N	1:A:21:GLU:HG3	0.41	2.30	9	1
1:A:48:HIS:HB2	1:A:115:ARG:HB3	0.41	1.92	11	1
1:A:54:THR:HA	1:A:148:VAL:HG23	0.41	1.92	11	1
1:A:90:ASP:HB3	1:A:93:GLY:HA3	0.41	1.93	5	1
1:A:110:HIS:O	1:A:115:ARG:HB2	0.41	2.15	10	1
1:A:68:SER:HA	1:A:77:GLU:CD	0.41	2.35	19	1
1:A:108:GLY:HA3	1:A:111:SER:O	0.41	2.16	1	1
1:A:132:GLU:O	1:A:135:THR:HB	0.41	2.16	1	1
1:A:22:GLN:HA	1:A:29:VAL:HG12	0.41	1.92	2	1
1:A:65:ASN:HB2	1:A:109:ASP:OD2	0.41	2.15	3	1
1:A:69:ARG:HB3	1:A:79:ARG:HA	0.41	1.93	6	1
1:A:67:LEU:CB	1:A:109:ASP:HB2	0.41	2.46	8	1
1:A:16:GLY:HA3	1:A:35:ILE:HG22	0.41	1.93	9	1

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Clash(Å)	Distance(Å)	Models	
				Worst	Total
1:A:34:SER:HA	1:A:95:ALA:O	0.41	2.16	9	1
1:A:65:ASN:ND2	1:A:108:GLY:HA2	0.41	2.31	9	1
1:A:69:ARG:O	1:A:69:ARG:HD2	0.41	2.16	10	1
1:A:79:ARG:O	1:A:80:HIS:HB3	0.41	2.15	10	1
1:A:68:SER:CB	1:A:78:GLU:H	0.41	2.28	12	1
1:A:87:VAL:HB	1:A:95:ALA:CB	0.41	2.45	12	1
1:A:125:ASP:O	1:A:138:GLY:HA2	0.41	2.16	12	1
1:A:69:ARG:HB3	1:A:78:GLU:OE1	0.41	2.16	14	1
1:A:76:ASP:HB2	1:A:102:SER:O	0.41	2.16	14	1
1:A:39:THR:HB	1:A:91:LYS:CA	0.41	2.45	16	1
1:A:115:ARG:O	1:A:149:ILE:HG22	0.41	2.16	19	1
1:A:42:LEU:HD22	1:A:87:VAL:HG23	0.41	1.92	1	1
1:A:149:ILE:O	1:A:149:ILE:HG23	0.41	2.16	6	1
1:A:69:ARG:O	1:A:71:HIS:N	0.41	2.52	10	1
1:A:68:SER:HA	1:A:79:ARG:CB	0.41	2.45	18	1
1:A:118:VAL:HA	1:A:145:ALA:O	0.40	2.16	12	1
1:A:66:PRO:HB3	1:A:69:ARG:NH2	0.40	2.31	16	1
1:A:45:PHE:HB3	1:A:124:ASP:HB2	0.40	1.93	10	1
1:A:46:HIS:NE2	1:A:117:LEU:HG	0.40	2.30	10	1
1:A:32:TRP:HA	1:A:97:VAL:O	0.40	2.17	12	1
1:A:89:ALA:HB1	1:A:93:GLY:HA2	0.40	1.94	7	1
1:A:22:GLN:HB2	1:A:104:ILE:HB	0.40	1.93	9	1
1:A:45:PHE:CD2	1:A:124:ASP:HB3	0.40	2.51	13	1
1:A:118:VAL:HG22	1:A:140:ALA:HB3	0.40	1.92	18	1
1:A:47:VAL:HG22	1:A:117:LEU:CD1	0.40	2.45	4	1
1:A:53:ASN:O	1:A:147:GLY:HA3	0.40	2.16	4	1
1:A:115:ARG:NH1	1:A:150:GLY:HA3	0.40	2.32	17	1
1:A:126:LEU:HD12	1:A:135:THR:O	0.40	2.17	19	1

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	148/153 (97%)	113±4 (76±3%)	27±5 (19±3%)	8±3 (5±2%)	3	22

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
All	All	2812/2907 (97%)	2141 (76%)	522 (19%)	149 (5%)	3	22

All 42 unique Ramachandran outliers are listed below. They are sorted by the frequency of occurrence in the ensemble.

Mol	Chain	Res	Type	Models (Total)
1	A	26	ASN	10
1	A	61	GLY	6
1	A	79	ARG	6
1	A	80	HIS	6
1	A	129	GLY	6
1	A	139	ASN	6
1	A	52	ASP	6
1	A	94	VAL	6
1	A	78	GLU	6
1	A	50	PHE	5
1	A	77	GLU	5
1	A	70	LYS	5
1	A	91	LYS	5
1	A	111	SER	4
1	A	109	ASP	4
1	A	41	GLY	4
1	A	102	SER	4
1	A	47	VAL	4
1	A	104	ILE	4
1	A	76	ASP	4
1	A	42	LEU	3
1	A	23	LYS	3
1	A	71	HIS	3
1	A	72	GLY	3
1	A	44	GLY	3
1	A	68	SER	2
1	A	93	GLY	2
1	A	130	GLY	2
1	A	43	HIS	2
1	A	147	GLY	2
1	A	148	VAL	2
1	A	151	ILE	2
1	A	85	GLY	2
1	A	138	GLY	2
1	A	125	ASP	2
1	A	142	SER	2

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Models (Total)
1	A	51	GLY	1
1	A	123	ALA	1
1	A	126	LEU	1
1	A	90	ASP	1
1	A	63	HIS	1
1	A	73	GLY	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	115/117 (98%)	105±2 (92±2%)	10±2 (8±2%)	12	60
All	All	2185/2223 (98%)	2004 (92%)	181 (8%)	12	60

All 72 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)
1	A	115	ARG	7
1	A	49	GLU	7
1	A	78	GLU	6
1	A	30	LYS	6
1	A	22	GLN	5
1	A	48	HIS	5
1	A	126	LEU	5
1	A	121	GLU	5
1	A	79	ARG	5
1	A	45	PHE	4
1	A	84	LEU	4
1	A	116	THR	4
1	A	133	GLU	4
1	A	149	ILE	4
1	A	104	ILE	4
1	A	75	LYS	4
1	A	46	HIS	3
1	A	71	HIS	3
1	A	80	HIS	3

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Models (Total)
1	A	117	LEU	3
1	A	144	LEU	3
1	A	36	LYS	3
1	A	151	ILE	3
1	A	99	ILE	3
1	A	15	GLN	3
1	A	19	ASN	3
1	A	106	LEU	3
1	A	143	ARG	3
1	A	18	ILE	3
1	A	3	LYS	2
1	A	8	LEU	2
1	A	57	CYS	2
1	A	112	ILE	2
1	A	39	THR	2
1	A	110	HIS	2
1	A	25	SER	2
1	A	40	GLU	2
1	A	113	ILE	2
1	A	23	LYS	2
1	A	43	HIS	2
1	A	120	HIS	2
1	A	86	ASN	2
1	A	136	LYS	2
1	A	77	GLU	2
1	A	132	GLU	2
1	A	42	LEU	2
1	A	124	ASP	2
1	A	65	ASN	2
1	A	91	LYS	2
1	A	87	VAL	1
1	A	102	SER	1
1	A	118	VAL	1
1	A	128	LYS	1
1	A	119	VAL	1
1	A	47	VAL	1
1	A	100	GLU	1
1	A	125	ASP	1
1	A	67	LEU	1
1	A	66	PRO	1
1	A	76	ASP	1
1	A	142	SER	1

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Models (Total)
1	A	26	ASN	1
1	A	50	PHE	1
1	A	68	SER	1
1	A	137	THR	1
1	A	13	PRO	1
1	A	69	ARG	1
1	A	59	SER	1
1	A	153	GLN	1
1	A	24	GLU	1
1	A	35	ILE	1
1	A	97	VAL	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 oligosaccharides in this entry.

6.6 Ligand geometry [i](#)

Of 1 ligands modelled in this entry, 1 is monoatomic - leaving 0 for Mogul analysis.

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 27% for the well-defined parts and 27% for the entire structure.

7.1 Chemical shift list 1

File name: working_cs.cif

Chemical shift list name: *assigned_chem_shift_list_1*

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	517
Number of shifts mapped to atoms	517
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

The following table shows the suggested chemical shift referencing corrections.

Nucleus	# values	Correction \pm precision, ppm	Suggested action
$^{13}\text{C}_\alpha$	125	3.23 ± 0.19	Should be checked
$^{13}\text{C}_\beta$	0	—	None (insufficient data)
$^{13}\text{C}'$	120	3.47 ± 0.29	Should be applied
^{15}N	136	1.02 ± 0.47	Should be applied

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 27%, i.e. 508 atoms were assigned a chemical shift out of a possible 1863. 0 out of 22 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	^1H	^{13}C	^{15}N
Backbone	508/764 (66%)	134/319 (42%)	240/300 (80%)	134/145 (92%)
Sidechain	0/983 (0%)	0/638 (0%)	0/312 (0%)	0/33 (0%)

Continued on next page...

Continued from previous page...

	Total	¹H	¹³C	¹⁵N
Aromatic	0/116 (0%)	0/58 (0%)	0/41 (0%)	0/17 (0%)
Overall	508/1863 (27%)	134/1015 (13%)	240/653 (37%)	134/195 (69%)

Note: This is a solid-state NMR structure, where hydrogen atoms are typically not assigned a chemical shift value, which may lead to lower completeness of assignment measure.

The following table shows the completeness of the chemical shift assignments for the full structure. The overall completeness is 27%, i.e. 517 atoms were assigned a chemical shift out of a possible 1893. 0 out of 23 assigned methyl groups (LEU and VAL) were assigned stereospecifically.

	Total	¹H	¹³C	¹⁵N
Backbone	517/780 (66%)	136/326 (42%)	245/306 (80%)	136/148 (92%)
Sidechain	0/997 (0%)	0/647 (0%)	0/317 (0%)	0/33 (0%)
Aromatic	0/116 (0%)	0/58 (0%)	0/41 (0%)	0/17 (0%)
Overall	517/1893 (27%)	136/1031 (13%)	245/664 (37%)	136/198 (69%)

Note: This is a solid-state NMR structure, where hydrogen atoms are typically not assigned a chemical shift value, which may lead to lower completeness of assignment measure.

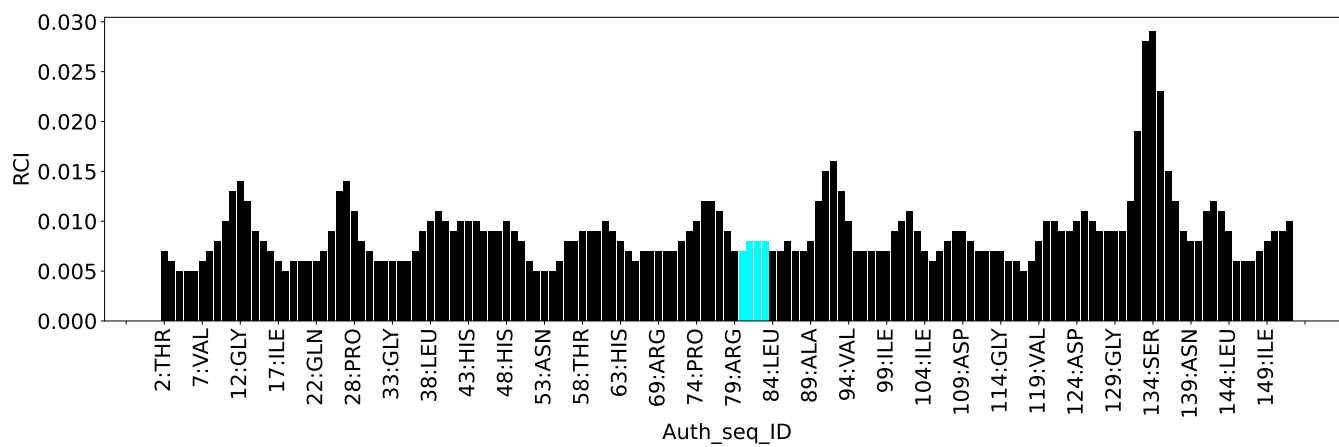
7.1.4 Statistically unusual chemical shifts [i](#)

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:



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	20826
Intra-residue ($ i-j =0$)	0
Sequential ($ i-j =1$)	1
Medium range ($ i-j >1$ and $ i-j <5$)	10922
Long range ($ i-j \geq 5$)	9524
Inter-chain	0
Hydrogen bond restraints	0
Disulfide bond restraints	1
Total dihedral-angle restraints	363
Number of unmapped restraints	0
Number of restraints per residue	137.6
Number of long range restraints per residue ¹	61.9

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)	40.2	0.2
0.2-0.5 (Medium)	39.5	0.5
>0.5 (Large)	42.1	2.81

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)	3.6	8.78
10.0-20.0 (Medium)	0.1	11.34
>20.0 (Large)	None	None

9 Distance violation analysis [i](#)

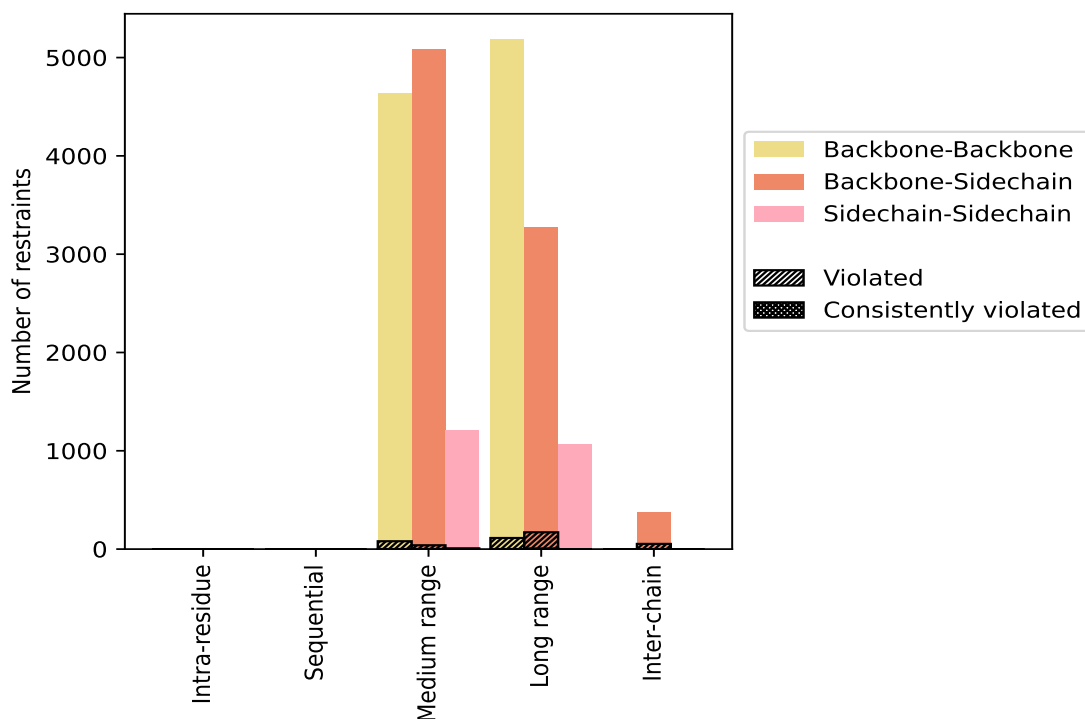
9.1 Summary of distance violations [i](#)

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 ($i-j =0$)	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sequential ($i-j =1$)	1	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	1	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Medium range ($i-j >1$ & $i-j <5$)	10922	52.4	127	1.2	0.6	2	0.0	0.0
Backbone-Backbone	4635	22.3	80	1.7	0.4	1	0.0	0.0
Backbone-Sidechain	5083	24.4	39	0.8	0.2	1	0.0	0.0
Sidechain-Sidechain	1204	5.8	8	0.7	0.0	0	0.0	0.0
Long range ($i-j \geq 5$)	9524	45.7	284	3.0	1.4	8	0.1	0.0
Backbone-Backbone	5186	24.9	113	2.2	0.5	1	0.0	0.0
Backbone-Sidechain	3273	15.7	171	5.2	0.8	7	0.2	0.0
Sidechain-Sidechain	1065	5.1	0	0.0	0.0	0	0.0	0.0
Inter-chain	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Backbone	0	0.0	0	0.0	0.0	0	0.0	0.0
Backbone-Sidechain	0	0.0	0	0.0	0.0	0	0.0	0.0
Sidechain-Sidechain	0	0.0	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	1	0.0	0	0.0	0.0	0	0.0	0.0
Total	20826	100.0	464	2.2	2.2	10	0.0	0.0
Backbone-Backbone	9822	47.2	193	2.0	0.9	2	0.0	0.0
Backbone-Sidechain	8734	41.9	263	3.0	1.3	8	0.1	0.0
Sidechain-Sidechain	2270	10.9	8	0.4	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	0	18	88	11	117	0.43	2.02	0.4	0.27
2	0	0	20	96	11	127	0.45	2.81	0.42	0.31
3	0	0	23	91	8	122	0.48	2.09	0.4	0.32
4	0	0	24	78	13	115	0.44	2.77	0.38	0.34
5	0	0	23	87	11	121	0.48	2.01	0.38	0.33
6	0	0	22	86	13	121	0.44	2.15	0.39	0.28
7	0	0	17	92	11	120	0.46	1.99	0.36	0.32
8	0	0	23	108	19	150	0.44	1.69	0.36	0.28
9	0	0	18	94	13	125	0.46	1.57	0.37	0.35
10	0	0	20	87	13	120	0.42	1.8	0.35	0.29

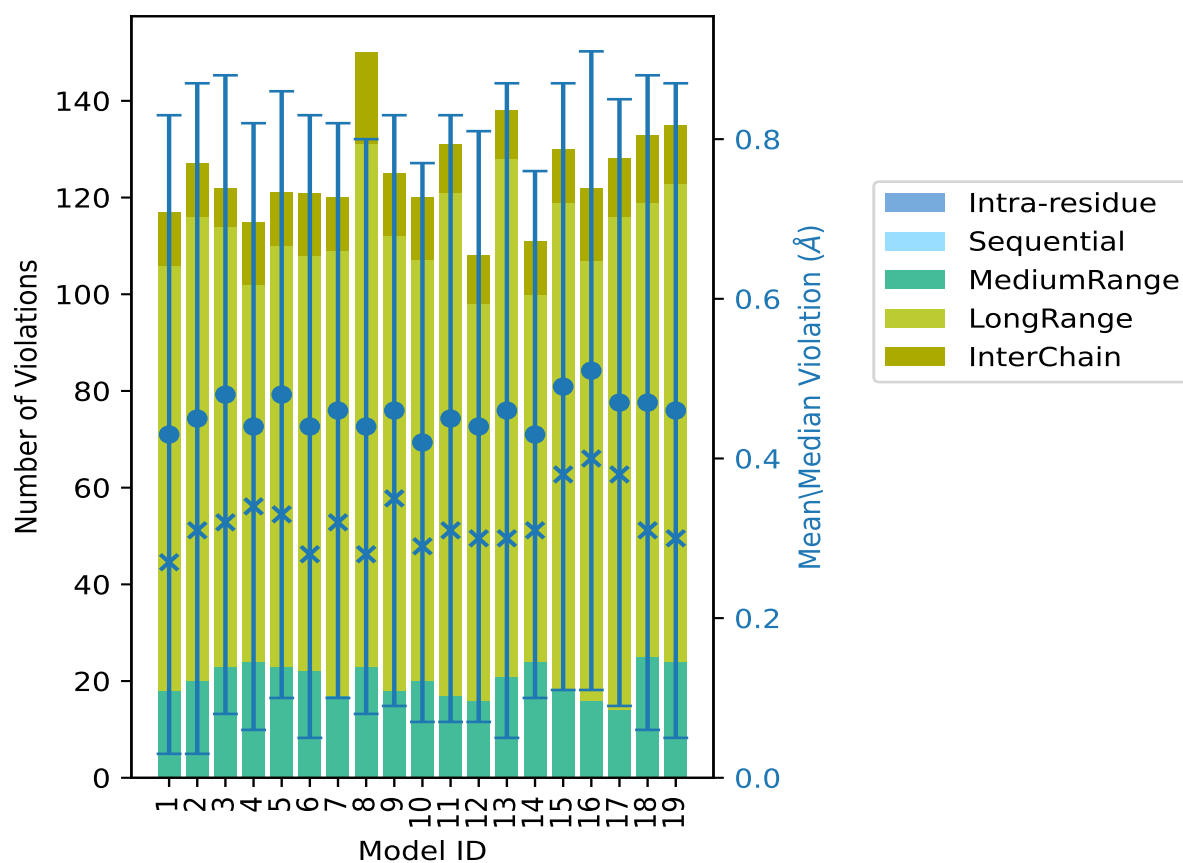
Continued on next page...

Continued from previous page...

Model ID	Number of violations					Total	Mean (Å)	Max (Å)	SD ⁶ (Å)	Median (Å)
	IR ¹	SQ ²	MR ³	LR ⁴	IC ⁵					
11	0	0	17	104	10	131	0.45	2.2	0.38	0.31
12	0	0	16	82	10	108	0.44	1.9	0.37	0.3
13	0	0	21	107	10	138	0.46	2.16	0.41	0.3
14	0	0	24	76	11	111	0.43	1.78	0.33	0.31
15	0	0	18	101	11	130	0.49	1.8	0.38	0.38
16	0	0	16	91	15	122	0.51	2.13	0.4	0.4
17	0	0	14	102	12	128	0.47	1.81	0.38	0.38
18	0	0	25	94	14	133	0.47	2.6	0.41	0.31
19	0	0	24	99	12	135	0.46	2.3	0.41	0.3

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

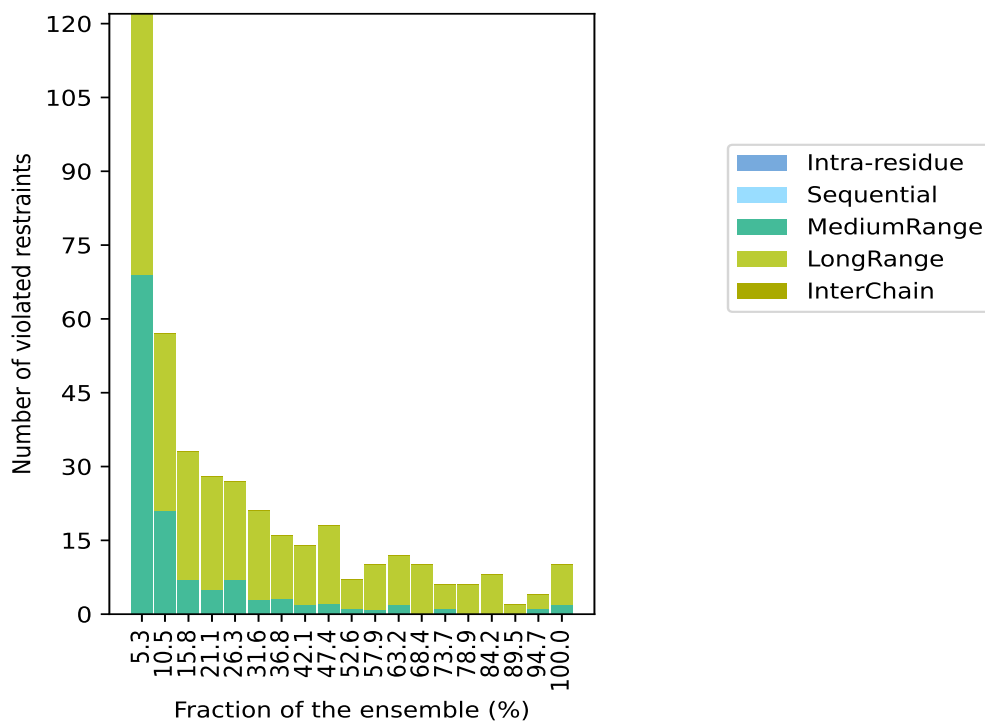
9.3 Distance violation statistics for the ensemble

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, 20036(IR:0, SQ:1, MR:10795, LR:9240, IC:0) 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	69	53	0	122	1	5.3
0	0	21	36	0	57	2	10.5
0	0	7	26	0	33	3	15.8
0	0	5	23	0	28	4	21.1
0	0	7	20	0	27	5	26.3
0	0	3	18	0	21	6	31.6
0	0	3	13	0	16	7	36.8
0	0	2	12	0	14	8	42.1
0	0	2	16	0	18	9	47.4
0	0	1	6	0	7	10	52.6
0	0	1	9	0	10	11	57.9
0	0	2	10	0	12	12	63.2
0	0	0	10	0	10	13	68.4
0	0	1	5	0	6	14	73.7
0	0	0	6	0	6	15	78.9
0	0	0	8	0	8	16	84.2
0	0	0	2	0	2	17	89.5
0	0	1	3	0	4	18	94.7
0	0	2	8	0	10	19	100.0

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

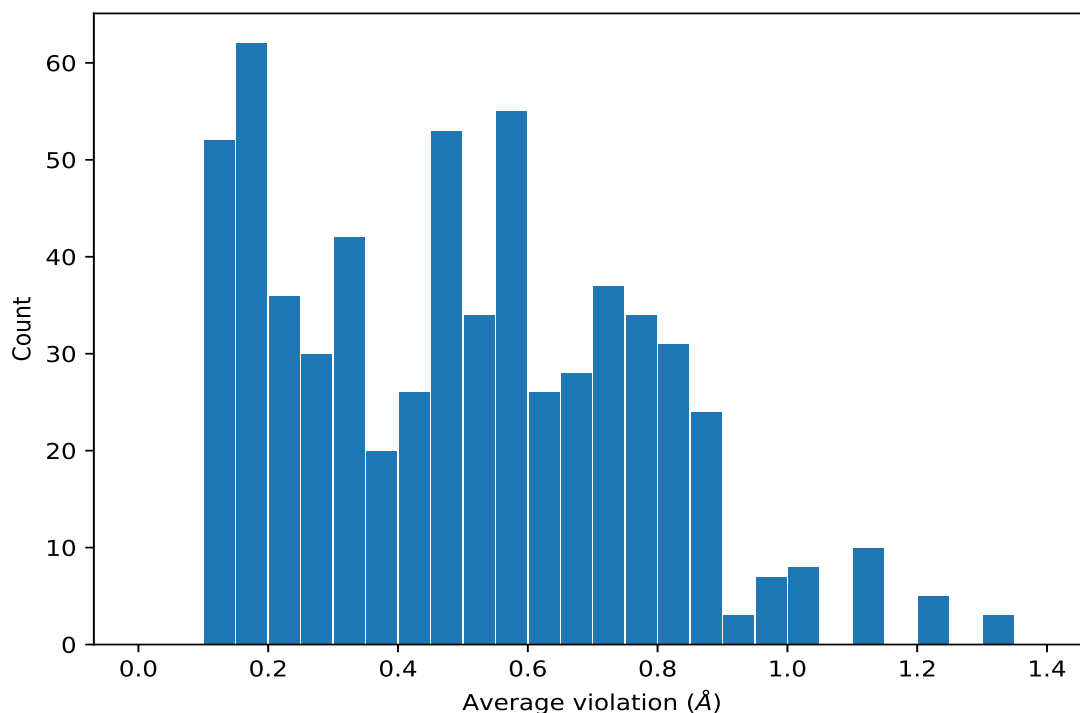
9.3.1 Bar graph : Distance violation statistics for the ensemble [i](#)



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)
(1,4480)	1:56:A:GLY:O	1:147:A:GLY:H	19	1.31	0.45	1.32
(1,4480)	1:56:A:GLY:O	1:146:A:CYS:H	19	1.31	0.45	1.32
(1,4480)	1:56:A:GLY:O	1:116:A:THR:H	19	1.31	0.45	1.32
(1,4589)	1:112:A:ILE:H	1:149:A:ILE:O	19	1.11	0.33	1.21
(1,4589)	1:112:A:ILE:H	1:151:A:ILE:O	19	1.11	0.33	1.21
(1,4589)	1:105:A:SER:O	1:112:A:ILE:H	19	1.11	0.33	1.21
(1,4589)	1:50:A:PHE:O	1:112:A:ILE:H	19	1.11	0.33	1.21
(1,4589)	1:104:A:ILE:O	1:112:A:ILE:H	19	1.11	0.33	1.21
(1,4589)	1:48:A:HIS:O	1:112:A:ILE:H	19	1.11	0.33	1.21
(1,4589)	1:49:A:GLU:O	1:112:A:ILE:H	19	1.11	0.33	1.21
(1,4436)	1:41:A:GLY:O	1:121:A:GLU:H	19	1.03	0.57	0.84
(1,4436)	1:41:A:GLY:O	1:91:A:LYS:H	19	1.03	0.57	0.84
(1,4436)	1:41:A:GLY:O	1:44:A:GLY:H	19	1.03	0.57	0.84
(1,4436)	1:41:A:GLY:O	1:94:A:VAL:H	19	1.03	0.57	0.84
(1,4484)	1:57:A:CYS:O	1:143:A:ARG:H	19	0.85	0.34	0.75
(1,4629)	1:57:A:CYS:O	1:143:A:ARG:H	19	0.81	0.31	0.75

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4629)	1:119:A:VAL:O	1:143:A:ARG:H	19	0.81	0.31	0.75
(1,4428)	1:39:A:THR:O	1:93:A:GLY:H	19	0.76	0.29	0.77
(1,4428)	1:39:A:THR:O	1:91:A:LYS:H	19	0.76	0.29	0.77
(1,4428)	1:39:A:THR:O	1:121:A:GLU:H	19	0.76	0.29	0.77
(1,4428)	1:39:A:THR:O	1:92:A:ASP:H	19	0.76	0.29	0.77
(1,4501)	1:75:A:LYS:H	1:85:A:GLY:O	19	0.75	0.36	0.71
(1,4501)	1:75:A:LYS:H	1:101:A:ASP:O	19	0.75	0.36	0.71
(1,4501)	1:75:A:LYS:H	1:102:A:SER:O	19	0.75	0.36	0.71
(1,4501)	1:75:A:LYS:H	1:84:A:LEU:O	19	0.75	0.36	0.71
(1,4501)	1:44:A:GLY:O	1:75:A:LYS:H	19	0.75	0.36	0.71
(1,4501)	1:75:A:LYS:H	1:100:A:GLU:O	19	0.75	0.36	0.71
(1,4501)	1:69:A:ARG:O	1:75:A:LYS:H	19	0.75	0.36	0.71
(1,91)	1:119:A:VAL:H	1:121:A:GLU:H	19	0.73	0.1	0.73
(1,91)	1:15:A:GLN:H	1:121:A:GLU:H	19	0.73	0.1	0.73
(1,91)	1:12:A:GLY:H	1:121:A:GLU:H	19	0.73	0.1	0.73
(1,4356)	1:10:A:GLY:O	1:14:A:VAL:H	19	0.57	0.34	0.5
(1,4356)	1:10:A:GLY:O	1:146:A:CYS:H	19	0.57	0.34	0.5
(1,28)	1:149:A:ILE:H	1:151:A:ILE:H	19	0.46	0.13	0.48
(1,28)	1:118:A:VAL:H	1:149:A:ILE:H	19	0.46	0.13	0.48
(1,4473)	1:54:A:THR:H	1:114:A:GLY:O	18	1.23	0.36	1.27
(1,4473)	1:7:A:VAL:O	1:54:A:THR:H	18	1.23	0.36	1.27
(1,4473)	1:54:A:THR:H	1:147:A:GLY:O	18	1.23	0.36	1.27
(1,4473)	1:54:A:THR:H	1:146:A:CYS:O	18	1.23	0.36	1.27
(1,4473)	1:54:A:THR:H	1:115:A:ARG:O	18	1.23	0.36	1.27
(1,4388)	1:2:A:THR:H	1:22:A:GLN:O	18	0.81	0.34	0.76
(1,4388)	1:22:A:GLN:O	1:29:A:VAL:H	18	0.81	0.34	0.76
(1,4388)	1:22:A:GLN:O	1:112:A:ILE:H	18	0.81	0.34	0.76
(1,4388)	1:22:A:GLN:O	1:105:A:SER:H	18	0.81	0.34	0.76
(3,371)	1:132:A:GLU:N	2:201:A:CU:CU	18	0.8	0.88	0.32
(1,4548)	1:86:A:ASN:H	1:96:A:ASP:O	18	0.76	0.37	0.74
(1,4548)	1:33:A:GLY:H	1:96:A:ASP:O	18	0.76	0.37	0.74
(1,4548)	1:35:A:ILE:H	1:96:A:ASP:O	18	0.76	0.37	0.74
(3,198)	1:143:A:ARG:C	2:201:A:CU:CU	18	0.57	0.5	0.37
(1,176)	1:86:A:ASN:H	1:88:A:THR:H	18	0.55	0.17	0.54
(1,4620)	1:42:A:LEU:H	1:120:A:HIS:O	17	0.89	0.51	0.73
(1,4620)	1:14:A:VAL:H	1:120:A:HIS:O	17	0.89	0.51	0.73
(1,4620)	1:45:A:PHE:H	1:120:A:HIS:O	17	0.89	0.51	0.73
(1,4620)	1:46:A:HIS:H	1:120:A:HIS:O	17	0.89	0.51	0.73
(1,4620)	1:44:A:GLY:H	1:120:A:HIS:O	17	0.89	0.51	0.73
(1,4536)	1:39:A:THR:H	1:92:A:ASP:O	17	0.81	0.35	0.92
(1,4536)	1:36:A:LYS:H	1:92:A:ASP:O	17	0.81	0.35	0.92
(1,4536)	1:40:A:GLU:H	1:92:A:ASP:O	17	0.81	0.35	0.92

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4537)	1:40:A:GLU:O	1:92:A:ASP:H	16	0.75	0.32	0.7
(1,4537)	1:38:A:LEU:O	1:92:A:ASP:H	16	0.75	0.32	0.7
(1,4537)	1:39:A:THR:O	1:92:A:ASP:H	16	0.75	0.32	0.7
(1,4576)	1:29:A:VAL:H	1:103:A:VAL:O	16	0.71	0.35	0.72
(1,4576)	1:22:A:GLN:H	1:103:A:VAL:O	16	0.71	0.35	0.72
(1,4576)	1:84:A:LEU:H	1:103:A:VAL:O	16	0.71	0.35	0.72
(1,4576)	1:21:A:GLU:H	1:103:A:VAL:O	16	0.71	0.35	0.72
(1,4576)	1:78:A:GLU:H	1:103:A:VAL:O	16	0.71	0.35	0.72
(1,4621)	1:44:A:GLY:O	1:120:A:HIS:H	16	0.7	0.34	0.66
(1,4621)	1:120:A:HIS:H	1:145:A:ALA:O	16	0.7	0.34	0.66
(1,4621)	1:45:A:PHE:O	1:120:A:HIS:H	16	0.7	0.34	0.66
(1,4621)	1:42:A:LEU:O	1:120:A:HIS:H	16	0.7	0.34	0.66
(1,4621)	1:46:A:HIS:O	1:120:A:HIS:H	16	0.7	0.34	0.66
(1,4584)	1:22:A:GLN:H	1:105:A:SER:O	16	0.67	0.36	0.72
(1,4584)	1:78:A:GLU:H	1:105:A:SER:O	16	0.67	0.36	0.72
(1,4584)	1:105:A:SER:O	1:112:A:ILE:H	16	0.67	0.36	0.72
(1,4584)	1:77:A:GLU:H	1:105:A:SER:O	16	0.67	0.36	0.72
(1,4584)	1:79:A:ARG:H	1:105:A:SER:O	16	0.67	0.36	0.72
(1,4584)	1:84:A:LEU:H	1:105:A:SER:O	16	0.67	0.36	0.72
(1,4625)	1:41:A:GLY:O	1:121:A:GLU:H	16	0.58	0.32	0.56
(1,4625)	1:38:A:LEU:O	1:121:A:GLU:H	16	0.58	0.32	0.56
(1,4625)	1:40:A:GLU:O	1:121:A:GLU:H	16	0.58	0.32	0.56
(1,4625)	1:121:A:GLU:H	1:144:A:LEU:O	16	0.58	0.32	0.56
(1,88)	1:15:A:GLN:H	1:35:A:ILE:H	16	0.39	0.15	0.32
(1,181)	1:18:A:ILE:H	1:150:A:GLY:H	16	0.27	0.07	0.26
(3,213)	1:10:A:GLY:C	2:201:A:CU:CU	16	0.18	0.05	0.18
(1,201)	1:16:A:GLY:H	1:34:A:SER:H	16	0.16	0.04	0.16
(1,4592)	1:113:A:ILE:O	1:149:A:ILE:H	15	1.01	0.24	1.12
(1,4592)	1:50:A:PHE:H	1:113:A:ILE:O	15	1.01	0.24	1.12
(1,4592)	1:113:A:ILE:O	1:151:A:ILE:H	15	1.01	0.24	1.12
(1,4592)	1:49:A:GLU:H	1:113:A:ILE:O	15	1.01	0.24	1.12
(1,4489)	1:67:A:LEU:H	1:79:A:ARG:O	15	0.82	0.55	0.62
(1,4489)	1:67:A:LEU:H	1:105:A:SER:O	15	0.82	0.55	0.62
(1,4489)	1:67:A:LEU:H	1:78:A:GLU:O	15	0.82	0.55	0.62
(1,4489)	1:49:A:GLU:O	1:67:A:LEU:H	15	0.82	0.55	0.62
(1,4580)	1:79:A:ARG:H	1:104:A:ILE:O	15	0.76	0.64	0.69
(1,4580)	1:22:A:GLN:H	1:104:A:ILE:O	15	0.76	0.64	0.69
(1,4580)	1:69:A:ARG:H	1:104:A:ILE:O	15	0.76	0.64	0.69
(1,4580)	1:76:A:ASP:H	1:104:A:ILE:O	15	0.76	0.64	0.69
(1,4580)	1:78:A:GLU:H	1:104:A:ILE:O	15	0.76	0.64	0.69
(1,4580)	1:77:A:GLU:H	1:104:A:ILE:O	15	0.76	0.64	0.69
(1,4508)	1:77:A:GLU:O	1:103:A:VAL:H	15	0.68	0.51	0.46

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4508)	1:77:A:GLU:O	1:104:A:ILE:H	15	0.68	0.51	0.46
(1,4508)	1:69:A:ARG:H	1:77:A:GLU:O	15	0.68	0.51	0.46
(1,4508)	1:77:A:GLU:O	1:102:A:SER:H	15	0.68	0.51	0.46
(1,4508)	1:77:A:GLU:O	1:84:A:LEU:H	15	0.68	0.51	0.46
(1,4479)	1:56:A:GLY:O	1:143:A:ARG:N	15	0.49	0.15	0.45
(1,4479)	1:56:A:GLY:O	1:147:A:GLY:N	15	0.49	0.15	0.45
(1,4479)	1:56:A:GLY:O	1:116:A:THR:N	15	0.49	0.15	0.45
(1,4479)	1:56:A:GLY:O	1:146:A:CYS:N	15	0.49	0.15	0.45
(1,26)	1:51:A:GLY:H	1:149:A:ILE:H	15	0.47	0.28	0.47
(1,26)	1:48:A:HIS:H	1:149:A:ILE:H	15	0.47	0.28	0.47
(1,4509)	1:68:A:SER:O	1:77:A:GLU:H	14	0.8	0.38	0.84
(1,4509)	1:77:A:GLU:H	1:102:A:SER:O	14	0.8	0.38	0.84
(1,4509)	1:77:A:GLU:H	1:101:A:ASP:O	14	0.8	0.38	0.84
(1,4509)	1:67:A:LEU:O	1:77:A:GLU:H	14	0.8	0.38	0.84
(1,4509)	1:77:A:GLU:H	1:104:A:ILE:O	14	0.8	0.38	0.84
(1,4509)	1:69:A:ARG:O	1:77:A:GLU:H	14	0.8	0.38	0.84
(1,4496)	1:69:A:ARG:O	1:77:A:GLU:H	14	0.71	0.42	0.64
(1,4496)	1:69:A:ARG:O	1:79:A:ARG:H	14	0.71	0.42	0.64
(1,4496)	1:69:A:ARG:O	1:78:A:GLU:H	14	0.71	0.42	0.64
(1,4496)	1:69:A:ARG:O	1:75:A:LYS:H	14	0.71	0.42	0.64
(1,12)	1:53:A:ASN:H	1:117:A:LEU:H	14	0.58	0.23	0.63
(1,12)	1:117:A:LEU:H	1:150:A:GLY:H	14	0.58	0.23	0.63
(1,12)	1:47:A:VAL:H	1:117:A:LEU:H	14	0.58	0.23	0.63
(1,4591)	1:113:A:ILE:O	1:150:A:GLY:N	14	0.47	0.18	0.4
(1,4591)	1:50:A:PHE:N	1:113:A:ILE:O	14	0.47	0.18	0.4
(1,4591)	1:113:A:ILE:O	1:151:A:ILE:N	14	0.47	0.18	0.4
(1,120)	1:3:A:LYS:H	1:151:A:ILE:H	14	0.45	0.2	0.48
(1,120)	1:149:A:ILE:H	1:151:A:ILE:H	14	0.45	0.2	0.48
(1,4404)	1:18:A:ILE:H	1:32:A:TRP:O	14	0.27	0.13	0.22
(1,4633)	1:119:A:VAL:O	1:144:A:LEU:H	13	0.97	0.62	0.71
(1,4633)	1:55:A:ALA:O	1:144:A:LEU:H	13	0.97	0.62	0.71
(1,4633)	1:9:A:LYS:O	1:144:A:LEU:H	13	0.97	0.62	0.71
(1,4464)	1:49:A:GLU:O	1:116:A:THR:H	13	0.77	0.5	0.59
(1,4464)	1:49:A:GLU:O	1:67:A:LEU:H	13	0.77	0.5	0.59
(1,4504)	1:76:A:ASP:O	1:103:A:VAL:H	13	0.67	0.34	0.64
(1,4504)	1:76:A:ASP:O	1:105:A:SER:H	13	0.67	0.34	0.64
(1,4504)	1:69:A:ARG:H	1:76:A:ASP:O	13	0.67	0.34	0.64
(1,4504)	1:76:A:ASP:O	1:104:A:ILE:H	13	0.67	0.34	0.64
(1,4504)	1:76:A:ASP:O	1:101:A:ASP:H	13	0.67	0.34	0.64
(1,4504)	1:76:A:ASP:O	1:102:A:SER:H	13	0.67	0.34	0.64
(1,4325)	1:2:A:THR:H	1:22:A:GLN:O	13	0.62	0.27	0.59
(1,4325)	1:2:A:THR:H	1:20:A:PHE:O	13	0.62	0.27	0.59

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4325)	1:2:A:THR:H	1:152:A:ALA:O	13	0.62	0.27	0.59
(1,169)	1:49:A:GLU:H	1:111:A:SER:H	13	0.6	0.32	0.55
(1,169)	1:49:A:GLU:H	1:83:A:ASP:H	13	0.6	0.32	0.55
(1,4547)	1:86:A:ASN:N	1:96:A:ASP:O	13	0.57	0.36	0.49
(1,4547)	1:33:A:GLY:N	1:96:A:ASP:O	13	0.57	0.36	0.49
(3,274)	1:120:A:HIS:C	2:201:A:CU:CU	13	0.32	0.2	0.25
(1,131)	1:50:A:PHE:H	1:60:A:ALA:H	13	0.24	0.1	0.23
(1,217)	1:87:A:VAL:H	1:122:A:LYS:H	13	0.24	0.1	0.19
(1,123)	1:22:A:GLN:H	1:106:A:LEU:H	13	0.2	0.07	0.17
(3,295)	1:9:A:LYS:N	2:201:A:CU:CU	13	0.18	0.06	0.16
(3,310)	1:31:A:VAL:N	2:201:A:CU:CU	13	0.17	0.05	0.17
(1,42)	1:19:A:ASN:H	1:31:A:VAL:H	13	0.15	0.03	0.15
(1,4505)	1:76:A:ASP:H	1:101:A:ASP:O	12	0.83	0.36	0.81
(1,4505)	1:76:A:ASP:H	1:102:A:SER:O	12	0.83	0.36	0.81
(1,4505)	1:76:A:ASP:H	1:84:A:LEU:O	12	0.83	0.36	0.81
(1,4505)	1:76:A:ASP:H	1:104:A:ILE:O	12	0.83	0.36	0.81
(1,4505)	1:76:A:ASP:H	1:100:A:GLU:O	12	0.83	0.36	0.81
(1,4529)	1:44:A:GLY:O	1:86:A:ASN:H	12	0.78	0.38	0.82
(1,4529)	1:86:A:ASN:H	1:96:A:ASP:O	12	0.78	0.38	0.82
(1,4529)	1:86:A:ASN:H	1:98:A:SER:O	12	0.78	0.38	0.82
(1,4529)	1:86:A:ASN:H	1:99:A:ILE:O	12	0.78	0.38	0.82
(1,4529)	1:86:A:ASN:H	1:97:A:VAL:O	12	0.78	0.38	0.82
(1,4577)	1:21:A:GLU:O	1:103:A:VAL:H	12	0.74	0.44	0.66
(1,4577)	1:76:A:ASP:O	1:103:A:VAL:H	12	0.74	0.44	0.66
(1,4577)	1:75:A:LYS:O	1:103:A:VAL:H	12	0.74	0.44	0.66
(1,4577)	1:77:A:GLU:O	1:103:A:VAL:H	12	0.74	0.44	0.66
(1,4577)	1:84:A:LEU:O	1:103:A:VAL:H	12	0.74	0.44	0.66
(1,4533)	1:40:A:GLU:O	1:91:A:LYS:H	12	0.62	0.37	0.73
(1,4533)	1:38:A:LEU:O	1:91:A:LYS:H	12	0.62	0.37	0.73
(1,4533)	1:41:A:GLY:O	1:91:A:LYS:H	12	0.62	0.37	0.73
(1,4405)	1:17:A:ILE:O	1:32:A:TRP:H	12	0.57	0.21	0.55
(1,4405)	1:18:A:ILE:O	1:32:A:TRP:H	12	0.57	0.21	0.55
(1,4405)	1:32:A:TRP:H	1:97:A:VAL:O	12	0.57	0.21	0.55
(1,4405)	1:32:A:TRP:H	1:98:A:SER:O	12	0.57	0.21	0.55
(1,4465)	1:49:A:GLU:H	1:116:A:THR:O	12	0.55	0.3	0.44
(1,4465)	1:49:A:GLU:H	1:67:A:LEU:O	12	0.55	0.3	0.44
(1,4512)	1:69:A:ARG:H	1:78:A:GLU:O	12	0.54	0.28	0.5
(1,4512)	1:78:A:GLU:O	1:105:A:SER:H	12	0.54	0.28	0.5
(1,4512)	1:68:A:SER:H	1:78:A:GLU:O	12	0.54	0.28	0.5
(1,4512)	1:67:A:LEU:H	1:78:A:GLU:O	12	0.54	0.28	0.5
(1,35)	1:43:A:HIS:H	1:45:A:PHE:H	12	0.34	0.15	0.31
(1,276)	1:47:A:VAL:H	1:85:A:GLY:H	12	0.34	0.15	0.33

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,276)	1:85:A:GLY:H	1:99:A:ILE:H	12	0.34	0.15	0.33
(1,4389)	1:2:A:THR:O	1:22:A:GLN:H	12	0.31	0.23	0.22
(1,4389)	1:22:A:GLN:H	1:103:A:VAL:O	12	0.31	0.23	0.22
(1,4389)	1:22:A:GLN:H	1:104:A:ILE:O	12	0.31	0.23	0.22
(1,4389)	1:22:A:GLN:H	1:105:A:SER:O	12	0.31	0.23	0.22
(3,84)	1:150:A:GLY:C	2:201:A:CU:CU	12	0.3	0.37	0.21
(3,319)	1:41:A:GLY:N	2:201:A:CU:CU	12	0.21	0.06	0.18
(2,156)	1:106:A:LEU:N	1:108:A:GLY:N	12	0.19	0.07	0.17
(1,43)	1:8:A:LEU:H	1:18:A:ILE:H	12	0.18	0.04	0.16
(1,4556)	1:86:A:ASN:H	1:98:A:SER:O	11	0.85	0.28	0.94
(1,4556)	1:31:A:VAL:H	1:98:A:SER:O	11	0.85	0.28	0.94
(1,4585)	1:76:A:ASP:O	1:105:A:SER:H	11	0.85	0.49	0.83
(1,4585)	1:77:A:GLU:O	1:105:A:SER:H	11	0.85	0.49	0.83
(1,4585)	1:21:A:GLU:O	1:105:A:SER:H	11	0.85	0.49	0.83
(1,4585)	1:79:A:ARG:O	1:105:A:SER:H	11	0.85	0.49	0.83
(1,4477)	1:55:A:ALA:H	1:146:A:CYS:O	11	0.72	0.27	0.62
(1,4477)	1:9:A:LYS:O	1:55:A:ALA:H	11	0.72	0.27	0.62
(1,4593)	1:113:A:ILE:H	1:151:A:ILE:O	11	0.58	0.3	0.51
(1,4593)	1:113:A:ILE:H	1:149:A:ILE:O	11	0.58	0.3	0.51
(1,4593)	1:50:A:PHE:O	1:113:A:ILE:H	11	0.58	0.3	0.51
(1,4593)	1:49:A:GLU:O	1:113:A:ILE:H	11	0.58	0.3	0.51
(1,98)	1:120:A:HIS:H	1:123:A:ALA:H	11	0.55	0.19	0.61
(1,98)	1:44:A:GLY:H	1:123:A:ALA:H	11	0.55	0.19	0.61
(1,4432)	1:40:A:GLU:O	1:121:A:GLU:H	11	0.51	0.38	0.31
(1,4432)	1:40:A:GLU:O	1:91:A:LYS:H	11	0.51	0.38	0.31
(1,50)	1:120:A:HIS:H	1:145:A:ALA:H	11	0.51	0.15	0.53
(1,50)	1:118:A:VAL:H	1:145:A:ALA:H	11	0.51	0.15	0.53
(1,4632)	1:121:A:GLU:H	1:144:A:LEU:O	11	0.47	0.24	0.37
(1,4632)	1:9:A:LYS:H	1:144:A:LEU:O	11	0.47	0.24	0.37
(1,4632)	1:119:A:VAL:H	1:144:A:LEU:O	11	0.47	0.24	0.37
(1,4632)	1:10:A:GLY:H	1:144:A:LEU:O	11	0.47	0.24	0.37
(1,4632)	1:14:A:VAL:H	1:144:A:LEU:O	11	0.47	0.24	0.37
(1,85)	1:8:A:LEU:H	1:15:A:GLN:H	11	0.42	0.14	0.45
(1,4355)	1:10:A:GLY:O	1:14:A:VAL:N	11	0.32	0.2	0.29
(1,4355)	1:10:A:GLY:O	1:145:A:ALA:N	11	0.32	0.2	0.29
(1,4355)	1:10:A:GLY:O	1:146:A:CYS:N	11	0.32	0.2	0.29
(1,4628)	1:57:A:CYS:H	1:143:A:ARG:O	10	0.85	0.38	0.8
(1,4628)	1:10:A:GLY:H	1:143:A:ARG:O	10	0.85	0.38	0.8
(1,4513)	1:78:A:GLU:H	1:105:A:SER:O	10	0.65	0.31	0.7
(1,4513)	1:68:A:SER:O	1:78:A:GLU:H	10	0.65	0.31	0.7
(1,4513)	1:78:A:GLU:H	1:102:A:SER:O	10	0.65	0.31	0.7
(1,4513)	1:78:A:GLU:H	1:103:A:VAL:O	10	0.65	0.31	0.7

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4513)	1:67:A:LEU:O	1:78:A:GLU:H	10	0.65	0.31	0.7
(1,4435)	1:41:A:GLY:O	1:91:A:LYS:N	10	0.57	0.44	0.46
(1,4435)	1:41:A:GLY:O	1:44:A:GLY:N	10	0.57	0.44	0.46
(1,4435)	1:41:A:GLY:O	1:121:A:GLU:N	10	0.57	0.44	0.46
(1,4481)	1:56:A:GLY:H	1:146:A:CYS:O	10	0.53	0.3	0.52
(1,4463)	1:49:A:GLU:O	1:116:A:THR:N	10	0.48	0.2	0.42
(1,4463)	1:49:A:GLU:O	1:114:A:GLY:N	10	0.48	0.2	0.42
(1,4463)	1:49:A:GLU:O	1:68:A:SER:N	10	0.48	0.2	0.42
(1,4463)	1:49:A:GLU:O	1:67:A:LEU:N	10	0.48	0.2	0.42
(1,63)	1:88:A:THR:H	1:90:A:ASP:H	10	0.45	0.25	0.4
(1,63)	1:41:A:GLY:H	1:90:A:ASP:H	10	0.45	0.25	0.4
(1,4660)	1:5:A:VAL:H	1:151:A:ILE:O	10	0.26	0.15	0.24
(1,4469)	1:50:A:PHE:H	1:116:A:THR:O	9	0.97	0.32	1.0
(1,4469)	1:50:A:PHE:H	1:114:A:GLY:O	9	0.97	0.32	1.0
(1,4469)	1:50:A:PHE:H	1:113:A:ILE:O	9	0.97	0.32	1.0
(1,4469)	1:50:A:PHE:H	1:112:A:ILE:O	9	0.97	0.32	1.0
(1,4521)	1:84:A:LEU:H	1:105:A:SER:O	9	0.87	0.45	0.9
(1,4521)	1:46:A:HIS:O	1:84:A:LEU:H	9	0.87	0.45	0.9
(1,4521)	1:84:A:LEU:H	1:103:A:VAL:O	9	0.87	0.45	0.9
(1,4521)	1:45:A:PHE:O	1:84:A:LEU:H	9	0.87	0.45	0.9
(1,4521)	1:84:A:LEU:H	1:101:A:ASP:O	9	0.87	0.45	0.9
(1,4521)	1:84:A:LEU:H	1:149:A:ILE:O	9	0.87	0.45	0.9
(1,4521)	1:84:A:LEU:H	1:98:A:SER:O	9	0.87	0.45	0.9
(1,4555)	1:31:A:VAL:N	1:98:A:SER:O	9	0.75	0.23	0.74
(1,4555)	1:86:A:ASN:N	1:98:A:SER:O	9	0.75	0.23	0.74
(1,4560)	1:31:A:VAL:H	1:99:A:ILE:O	9	0.72	0.28	0.7
(1,4560)	1:85:A:GLY:H	1:99:A:ILE:O	9	0.72	0.28	0.7
(1,4560)	1:86:A:ASN:H	1:99:A:ILE:O	9	0.72	0.28	0.7
(1,4492)	1:68:A:SER:O	1:78:A:GLU:H	9	0.63	0.22	0.55
(1,4492)	1:68:A:SER:O	1:79:A:ARG:H	9	0.63	0.22	0.55
(1,4401)	1:31:A:VAL:H	1:100:A:GLU:O	9	0.63	0.29	0.47
(1,4401)	1:31:A:VAL:H	1:97:A:VAL:O	9	0.63	0.29	0.47
(1,4401)	1:31:A:VAL:H	1:99:A:ILE:O	9	0.63	0.29	0.47
(1,4401)	1:31:A:VAL:H	1:98:A:SER:O	9	0.63	0.29	0.47
(1,4401)	1:21:A:GLU:O	1:31:A:VAL:H	9	0.63	0.29	0.47
(1,4581)	1:76:A:ASP:O	1:104:A:ILE:H	9	0.61	0.29	0.67
(1,4581)	1:75:A:LYS:O	1:104:A:ILE:H	9	0.61	0.29	0.67
(1,4581)	1:77:A:GLU:O	1:104:A:ILE:H	9	0.61	0.29	0.67
(1,4581)	1:21:A:GLU:O	1:104:A:ILE:H	9	0.61	0.29	0.67
(1,4532)	1:39:A:THR:H	1:91:A:LYS:O	9	0.57	0.17	0.57
(1,4532)	1:40:A:GLU:H	1:91:A:LYS:O	9	0.57	0.17	0.57
(1,4485)	1:57:A:CYS:H	1:117:A:LEU:O	9	0.56	0.19	0.57

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4485)	1:57:A:CYS:H	1:145:A:ALA:O	9	0.56	0.19	0.57
(1,4485)	1:57:A:CYS:H	1:143:A:ARG:O	9	0.56	0.19	0.57
(1,4485)	1:57:A:CYS:H	1:146:A:CYS:O	9	0.56	0.19	0.57
(1,4441)	1:42:A:LEU:H	1:121:A:GLU:O	9	0.56	0.47	0.42
(1,4441)	1:42:A:LEU:H	1:120:A:HIS:O	9	0.56	0.47	0.42
(1,107)	1:46:A:HIS:H	1:119:A:VAL:H	9	0.47	0.37	0.3
(1,107)	1:45:A:PHE:H	1:119:A:VAL:H	9	0.47	0.37	0.3
(1,16)	1:48:A:HIS:H	1:50:A:PHE:H	9	0.4	0.16	0.47
(1,16)	1:48:A:HIS:H	1:149:A:ILE:H	9	0.4	0.16	0.47
(1,4417)	1:15:A:GLN:O	1:35:A:ILE:H	9	0.24	0.08	0.25
(1,292)	1:37:A:GLY:H	1:39:A:THR:H	9	0.23	0.1	0.18
(3,236)	1:49:A:GLU:C	2:201:A:CU:CU	9	0.21	0.04	0.21
(1,143)	1:36:A:LYS:H	1:94:A:VAL:H	9	0.17	0.04	0.17
(3,1)	1:2:A:THR:C	2:201:A:CU:CU	9	0.17	0.03	0.17
(1,159)	1:49:A:GLU:H	1:118:A:VAL:H	9	0.15	0.04	0.17
(1,95)	1:9:A:LYS:H	1:145:A:ALA:H	9	0.14	0.03	0.14
(1,115)	1:20:A:PHE:H	1:151:A:ILE:H	9	0.14	0.02	0.13
(1,4559)	1:31:A:VAL:N	1:99:A:ILE:O	8	0.64	0.28	0.63
(1,4559)	1:85:A:GLY:N	1:99:A:ILE:O	8	0.64	0.28	0.63
(1,4559)	1:86:A:ASN:N	1:99:A:ILE:O	8	0.64	0.28	0.63
(1,4619)	1:42:A:LEU:N	1:120:A:HIS:O	8	0.55	0.25	0.6
(1,4619)	1:46:A:HIS:N	1:120:A:HIS:O	8	0.55	0.25	0.6
(1,4619)	1:44:A:GLY:N	1:120:A:HIS:O	8	0.55	0.25	0.6
(1,4433)	1:40:A:GLU:H	1:121:A:GLU:O	8	0.52	0.24	0.5
(1,4433)	1:40:A:GLU:H	1:91:A:LYS:O	8	0.52	0.24	0.5
(1,4444)	1:44:A:GLY:O	1:120:A:HIS:H	8	0.45	0.21	0.42
(1,4444)	1:44:A:GLY:O	1:86:A:ASN:H	8	0.45	0.21	0.42
(1,4444)	1:44:A:GLY:O	1:85:A:GLY:H	8	0.45	0.21	0.42
(1,4565)	1:29:A:VAL:O	1:100:A:GLU:H	8	0.45	0.39	0.3
(1,4565)	1:84:A:LEU:O	1:100:A:GLU:H	8	0.45	0.39	0.3
(1,4324)	1:2:A:THR:O	1:21:A:GLU:H	8	0.43	0.25	0.33
(1,4495)	1:69:A:ARG:O	1:78:A:GLU:N	8	0.41	0.28	0.29
(1,4495)	1:69:A:ARG:O	1:79:A:ARG:N	8	0.41	0.28	0.29
(1,4495)	1:69:A:ARG:O	1:75:A:LYS:N	8	0.41	0.28	0.29
(1,4429)	1:39:A:THR:H	1:91:A:LYS:O	8	0.39	0.16	0.43
(1,4429)	1:39:A:THR:H	1:92:A:ASP:O	8	0.39	0.16	0.43
(1,4552)	1:33:A:GLY:H	1:97:A:VAL:O	8	0.32	0.18	0.28
(1,48)	1:6:A:ALA:H	1:8:A:LEU:H	8	0.23	0.07	0.23
(1,271)	1:33:A:GLY:H	1:99:A:ILE:H	8	0.17	0.03	0.17
(1,211)	1:41:A:GLY:H	1:89:A:ALA:H	8	0.16	0.05	0.15
(1,198)	1:52:A:ASP:H	1:56:A:GLY:H	8	0.15	0.01	0.15
(1,38)	1:6:A:ALA:H	1:152:A:ALA:H	8	0.14	0.02	0.14

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4448)	1:45:A:PHE:O	1:118:A:VAL:H	7	0.84	0.38	0.81
(1,4448)	1:45:A:PHE:O	1:84:A:LEU:H	7	0.84	0.38	0.81
(1,4448)	1:45:A:PHE:O	1:120:A:HIS:H	7	0.84	0.38	0.81
(1,4448)	1:45:A:PHE:O	1:85:A:GLY:H	7	0.84	0.38	0.81
(1,4468)	1:50:A:PHE:O	1:116:A:THR:H	7	0.59	0.24	0.66
(1,4493)	1:68:A:SER:H	1:77:A:GLU:O	7	0.54	0.44	0.34
(1,4493)	1:68:A:SER:H	1:78:A:GLU:O	7	0.54	0.44	0.34
(1,4493)	1:68:A:SER:H	1:76:A:ASP:O	7	0.54	0.44	0.34
(1,4493)	1:68:A:SER:H	1:79:A:ARG:O	7	0.54	0.44	0.34
(1,4520)	1:84:A:LEU:O	1:99:A:ILE:H	7	0.5	0.31	0.35
(1,4520)	1:75:A:LYS:H	1:84:A:LEU:O	7	0.5	0.31	0.35
(1,4520)	1:46:A:HIS:H	1:84:A:LEU:O	7	0.5	0.31	0.35
(1,4520)	1:45:A:PHE:H	1:84:A:LEU:O	7	0.5	0.31	0.35
(1,4520)	1:20:A:PHE:H	1:84:A:LEU:O	7	0.5	0.31	0.35
(1,119)	1:45:A:PHE:H	1:84:A:LEU:H	7	0.41	0.22	0.39
(1,119)	1:46:A:HIS:H	1:84:A:LEU:H	7	0.41	0.22	0.39
(1,303)	1:69:A:ARG:H	1:82:A:GLY:H	7	0.38	0.22	0.43
(1,303)	1:49:A:GLU:H	1:82:A:GLY:H	7	0.38	0.22	0.43
(1,239)	1:131:A:ASN:H	1:138:A:GLY:H	7	0.28	0.14	0.22
(1,239)	1:68:A:SER:H	1:71:A:HIS:H	7	0.28	0.14	0.22
(1,234)	1:131:A:ASN:H	1:139:A:ASN:H	7	0.24	0.07	0.2
(1,157)	1:42:A:LEU:H	1:88:A:THR:H	7	0.2	0.03	0.18
(3,282)	1:142:A:SER:C	2:201:A:CU:CU	7	0.18	0.04	0.18
(3,253)	1:83:A:ASP:C	2:201:A:CU:CU	7	0.18	0.07	0.15
(1,141)	1:88:A:THR:H	1:94:A:VAL:H	7	0.15	0.05	0.14
(1,168)	1:88:A:THR:H	1:94:A:VAL:H	7	0.15	0.05	0.14
(1,232)	1:116:A:THR:H	1:148:A:VAL:H	7	0.14	0.04	0.13
(1,261)	1:129:A:GLY:H	1:136:A:LYS:H	7	0.14	0.04	0.12
(1,14)	1:46:A:HIS:H	1:48:A:HIS:H	7	0.13	0.03	0.13
(1,187)	1:46:A:HIS:H	1:48:A:HIS:H	7	0.13	0.03	0.13
(1,273)	1:27:A:GLY:H	1:105:A:SER:H	7	0.12	0.01	0.12
(1,4500)	1:75:A:LYS:O	1:101:A:ASP:H	6	0.66	0.35	0.52
(1,4500)	1:75:A:LYS:O	1:102:A:SER:H	6	0.66	0.35	0.52
(1,4500)	1:75:A:LYS:O	1:103:A:VAL:H	6	0.66	0.35	0.52
(1,4500)	1:69:A:ARG:H	1:75:A:LYS:O	6	0.66	0.35	0.52
(1,4500)	1:75:A:LYS:O	1:100:A:GLU:H	6	0.66	0.35	0.52
(1,4541)	1:38:A:LEU:O	1:93:A:GLY:H	6	0.58	0.34	0.5
(1,4541)	1:35:A:ILE:O	1:93:A:GLY:H	6	0.58	0.34	0.5
(1,4516)	1:67:A:LEU:H	1:79:A:ARG:O	6	0.5	0.31	0.39
(1,4516)	1:69:A:ARG:H	1:79:A:ARG:O	6	0.5	0.31	0.39
(1,4516)	1:68:A:SER:H	1:79:A:ARG:O	6	0.5	0.31	0.39
(1,4516)	1:79:A:ARG:O	1:105:A:SER:H	6	0.5	0.31	0.39

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4397)	1:21:A:GLU:O	1:30:A:LYS:H	6	0.47	0.16	0.53
(1,4397)	1:30:A:LYS:H	1:99:A:ILE:O	6	0.47	0.16	0.53
(1,36)	1:42:A:LEU:H	1:45:A:PHE:H	6	0.46	0.16	0.44
(1,36)	1:45:A:PHE:H	1:85:A:GLY:H	6	0.46	0.16	0.44
(1,4456)	1:47:A:VAL:O	1:118:A:VAL:H	6	0.44	0.36	0.32
(1,4569)	1:75:A:LYS:O	1:101:A:ASP:H	6	0.4	0.2	0.36
(1,4569)	1:29:A:VAL:O	1:101:A:ASP:H	6	0.4	0.2	0.36
(1,4561)	1:31:A:VAL:O	1:99:A:ILE:H	6	0.37	0.09	0.36
(1,4561)	1:86:A:ASN:O	1:99:A:ILE:H	6	0.37	0.09	0.36
(1,4497)	1:69:A:ARG:H	1:79:A:ARG:O	6	0.37	0.15	0.3
(1,4497)	1:69:A:ARG:H	1:78:A:GLU:O	6	0.37	0.15	0.3
(1,4497)	1:69:A:ARG:H	1:76:A:ASP:O	6	0.37	0.15	0.3
(1,4437)	1:41:A:GLY:H	1:121:A:GLU:O	6	0.35	0.12	0.32
(1,4551)	1:33:A:GLY:N	1:97:A:VAL:O	6	0.3	0.14	0.3
(1,4551)	1:86:A:ASN:N	1:97:A:VAL:O	6	0.3	0.14	0.3
(1,162)	1:67:A:LEU:H	1:70:A:LYS:H	6	0.23	0.08	0.24
(1,146)	1:67:A:LEU:H	1:109:A:ASP:H	6	0.23	0.08	0.24
(1,20)	1:89:A:ALA:H	1:95:A:ALA:H	6	0.22	0.1	0.22
(1,4596)	1:114:A:GLY:O	1:149:A:ILE:H	6	0.21	0.12	0.18
(3,194)	1:136:A:LYS:C	2:201:A:CU:CU	6	0.19	0.02	0.18
(1,4440)	1:42:A:LEU:O	1:44:A:GLY:H	6	0.16	0.06	0.15
(1,208)	1:34:A:SER:H	1:95:A:ALA:H	6	0.16	0.03	0.17
(1,249)	1:50:A:PHE:H	1:109:A:ASP:H	6	0.16	0.06	0.15
(1,195)	1:40:A:GLU:H	1:91:A:LYS:H	6	0.16	0.07	0.12
(1,4104)	1:142:A:SER:C	1:144:A:LEU:C	6	0.13	0.02	0.12
(1,1267)	1:39:A:THR:C	1:41:A:GLY:N	6	0.11	0.01	0.11
(1,4460)	1:48:A:HIS:O	1:118:A:VAL:H	5	0.91	0.37	0.94
(1,4460)	1:48:A:HIS:O	1:116:A:THR:H	5	0.91	0.37	0.94
(1,4460)	1:48:A:HIS:O	1:68:A:SER:H	5	0.91	0.37	0.94
(1,4488)	1:67:A:LEU:O	1:79:A:ARG:H	5	0.87	0.48	0.8
(1,4488)	1:49:A:GLU:H	1:67:A:LEU:O	5	0.87	0.48	0.8
(1,4488)	1:67:A:LEU:O	1:77:A:GLU:H	5	0.87	0.48	0.8
(1,4572)	1:29:A:VAL:H	1:102:A:SER:O	5	0.73	0.45	0.58
(1,4572)	1:77:A:GLU:H	1:102:A:SER:O	5	0.73	0.45	0.58
(1,4476)	1:55:A:ALA:O	1:146:A:CYS:H	5	0.71	0.19	0.75
(1,4503)	1:76:A:ASP:O	1:104:A:ILE:N	5	0.61	0.11	0.66
(1,4503)	1:76:A:ASP:O	1:101:A:ASP:N	5	0.61	0.11	0.66
(1,4503)	1:76:A:ASP:O	1:103:A:VAL:N	5	0.61	0.11	0.66
(1,4503)	1:76:A:ASP:O	1:105:A:SER:N	5	0.61	0.11	0.66
(1,84)	1:57:A:CYS:H	1:144:A:LEU:H	5	0.59	0.16	0.56
(1,84)	1:120:A:HIS:H	1:144:A:LEU:H	5	0.59	0.16	0.56
(1,4457)	1:47:A:VAL:H	1:118:A:VAL:O	5	0.56	0.17	0.58

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,11)	1:48:A:HIS:H	1:84:A:LEU:H	5	0.56	0.28	0.66
(1,11)	1:48:A:HIS:H	1:83:A:ASP:H	5	0.56	0.28	0.66
(1,4490)	1:67:A:LEU:N	1:77:A:GLU:O	5	0.5	0.13	0.46
(1,4490)	1:67:A:LEU:N	1:79:A:ARG:O	5	0.5	0.13	0.46
(1,4490)	1:67:A:LEU:N	1:78:A:GLU:O	5	0.5	0.13	0.46
(1,4575)	1:77:A:GLU:N	1:103:A:VAL:O	5	0.45	0.22	0.39
(1,4575)	1:79:A:ARG:N	1:103:A:VAL:O	5	0.45	0.22	0.39
(1,4575)	1:22:A:GLN:N	1:103:A:VAL:O	5	0.45	0.22	0.39
(1,4575)	1:84:A:LEU:N	1:103:A:VAL:O	5	0.45	0.22	0.39
(1,4575)	1:29:A:VAL:N	1:103:A:VAL:O	5	0.45	0.22	0.39
(1,4447)	1:45:A:PHE:O	1:118:A:VAL:N	5	0.4	0.13	0.35
(1,4447)	1:45:A:PHE:O	1:84:A:LEU:N	5	0.4	0.13	0.35
(1,4447)	1:45:A:PHE:O	1:86:A:ASN:N	5	0.4	0.13	0.35
(1,4400)	1:31:A:VAL:O	1:99:A:ILE:H	5	0.34	0.04	0.34
(1,4400)	1:31:A:VAL:O	1:100:A:GLU:H	5	0.34	0.04	0.34
(1,4357)	1:10:A:GLY:H	1:14:A:VAL:O	5	0.3	0.09	0.31
(1,4357)	1:10:A:GLY:H	1:144:A:LEU:O	5	0.3	0.09	0.31
(1,4357)	1:10:A:GLY:H	1:146:A:CYS:O	5	0.3	0.09	0.31
(1,4540)	1:36:A:LYS:H	1:93:A:GLY:O	5	0.28	0.1	0.25
(1,4424)	1:14:A:VAL:H	1:38:A:LEU:O	5	0.26	0.09	0.26
(1,4424)	1:38:A:LEU:O	1:93:A:GLY:H	5	0.26	0.09	0.26
(1,4424)	1:38:A:LEU:O	1:121:A:GLU:H	5	0.26	0.09	0.26
(1,267)	1:33:A:GLY:H	1:35:A:ILE:H	5	0.26	0.1	0.28
(1,2954)	1:105:A:SER:CA	1:107:A:SER:N	5	0.25	0.01	0.26
(3,144)	1:91:A:LYS:N	2:201:A:CU:CU	5	0.21	0.04	0.23
(1,135)	1:79:A:ARG:H	1:82:A:GLY:H	5	0.19	0.07	0.18
(1,118)	1:47:A:VAL:H	1:84:A:LEU:H	5	0.18	0.04	0.2
(1,49)	1:47:A:VAL:H	1:118:A:VAL:H	5	0.17	0.07	0.16
(1,191)	1:52:A:ASP:H	1:114:A:GLY:H	5	0.16	0.07	0.14
(1,129)	1:60:A:ALA:H	1:63:A:HIS:H	5	0.15	0.04	0.12
(1,1689)	1:57:A:CYS:CB	1:59:A:SER:CA	5	0.14	0.04	0.14
(3,187)	1:118:A:VAL:C	2:201:A:CU:CU	5	0.14	0.03	0.13
(1,161)	1:72:A:GLY:H	1:80:A:HIS:H	5	0.14	0.04	0.12
(1,252)	1:50:A:PHE:H	1:52:A:ASP:H	5	0.13	0.02	0.14
(1,73)	1:4:A:ALA:H	1:19:A:ASN:H	5	0.13	0.01	0.13
(1,112)	1:14:A:VAL:H	1:36:A:LYS:H	5	0.12	0.01	0.12
(1,4573)	1:77:A:GLU:O	1:102:A:SER:H	4	0.82	0.31	0.78
(1,4573)	1:75:A:LYS:O	1:102:A:SER:H	4	0.82	0.31	0.78
(1,4525)	1:45:A:PHE:O	1:85:A:GLY:H	4	0.72	0.09	0.69
(1,4525)	1:46:A:HIS:O	1:85:A:GLY:H	4	0.72	0.09	0.69
(1,4525)	1:44:A:GLY:O	1:85:A:GLY:H	4	0.72	0.09	0.69
(1,4525)	1:85:A:GLY:H	1:98:A:SER:O	4	0.72	0.09	0.69

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4510)	1:77:A:GLU:N	1:101:A:ASP:O	4	0.48	0.11	0.42
(1,4510)	1:68:A:SER:O	1:77:A:GLU:N	4	0.48	0.11	0.42
(1,4510)	1:67:A:LEU:O	1:77:A:GLU:N	4	0.48	0.11	0.42
(1,4510)	1:77:A:GLU:N	1:104:A:ILE:O	4	0.48	0.11	0.42
(1,4538)	1:39:A:THR:O	1:92:A:ASP:N	4	0.41	0.05	0.42
(1,4538)	1:40:A:GLU:O	1:92:A:ASP:N	4	0.41	0.05	0.42
(1,4538)	1:38:A:LEU:O	1:92:A:ASP:N	4	0.41	0.05	0.42
(1,4582)	1:76:A:ASP:O	1:104:A:ILE:N	4	0.41	0.22	0.37
(1,4582)	1:75:A:LYS:O	1:104:A:ILE:N	4	0.41	0.22	0.37
(1,4582)	1:21:A:GLU:O	1:104:A:ILE:N	4	0.41	0.22	0.37
(1,4582)	1:77:A:GLU:O	1:104:A:ILE:N	4	0.41	0.22	0.37
(1,4487)	1:49:A:GLU:N	1:67:A:LEU:O	4	0.38	0.07	0.36
(1,4487)	1:67:A:LEU:O	1:79:A:ARG:N	4	0.38	0.07	0.36
(1,4487)	1:67:A:LEU:O	1:77:A:GLU:N	4	0.38	0.07	0.36
(1,4470)	1:50:A:PHE:N	1:116:A:THR:O	4	0.34	0.16	0.28
(1,4470)	1:50:A:PHE:N	1:113:A:ILE:O	4	0.34	0.16	0.28
(1,4470)	1:50:A:PHE:N	1:114:A:GLY:O	4	0.34	0.16	0.28
(1,4530)	1:86:A:ASN:N	1:96:A:ASP:O	4	0.33	0.15	0.34
(1,4530)	1:44:A:GLY:O	1:86:A:ASN:N	4	0.33	0.15	0.34
(1,4530)	1:45:A:PHE:O	1:86:A:ASN:N	4	0.33	0.15	0.34
(1,4499)	1:75:A:LYS:O	1:103:A:VAL:N	4	0.31	0.15	0.26
(1,4499)	1:75:A:LYS:O	1:101:A:ASP:N	4	0.31	0.15	0.26
(1,4499)	1:75:A:LYS:O	1:102:A:SER:N	4	0.31	0.15	0.26
(1,4384)	1:21:A:GLU:O	1:30:A:LYS:H	4	0.29	0.19	0.23
(1,4384)	1:21:A:GLU:O	1:105:A:SER:H	4	0.29	0.19	0.23
(1,4384)	1:21:A:GLU:O	1:104:A:ILE:H	4	0.29	0.19	0.23
(1,4406)	1:18:A:ILE:O	1:32:A:TRP:N	4	0.29	0.12	0.28
(1,4406)	1:17:A:ILE:O	1:32:A:TRP:N	4	0.29	0.12	0.28
(1,4486)	1:57:A:CYS:N	1:116:A:THR:O	4	0.25	0.13	0.25
(1,4486)	1:57:A:CYS:N	1:146:A:CYS:O	4	0.25	0.13	0.25
(1,4486)	1:57:A:CYS:N	1:143:A:ARG:O	4	0.25	0.13	0.25
(1,4486)	1:57:A:CYS:N	1:145:A:ALA:O	4	0.25	0.13	0.25
(1,4557)	1:31:A:VAL:O	1:98:A:SER:H	4	0.25	0.1	0.26
(1,4557)	1:86:A:ASN:O	1:98:A:SER:H	4	0.25	0.1	0.26
(1,4586)	1:22:A:GLN:O	1:105:A:SER:N	4	0.25	0.1	0.24
(1,4586)	1:76:A:ASP:O	1:105:A:SER:N	4	0.25	0.1	0.24
(1,4586)	1:21:A:GLU:O	1:105:A:SER:N	4	0.25	0.1	0.24
(1,53)	1:48:A:HIS:H	1:118:A:VAL:H	4	0.24	0.05	0.22
(1,127)	1:70:A:LYS:H	1:78:A:GLU:H	4	0.24	0.11	0.2
(1,4634)	1:9:A:LYS:O	1:144:A:LEU:N	4	0.24	0.04	0.23
(1,4634)	1:55:A:ALA:O	1:144:A:LEU:N	4	0.24	0.04	0.23
(1,4634)	1:119:A:VAL:O	1:144:A:LEU:N	4	0.24	0.04	0.23

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,34)	1:34:A:SER:H	1:97:A:VAL:H	4	0.22	0.05	0.24
(1,137)	1:51:A:GLY:H	1:111:A:SER:H	4	0.2	0.05	0.21
(3,196)	1:139:A:ASN:C	2:201:A:CU:CU	4	0.18	0.07	0.18
(1,183)	1:51:A:GLY:H	1:110:A:HIS:H	4	0.18	0.05	0.18
(1,247)	1:37:A:GLY:H	1:39:A:THR:H	4	0.16	0.02	0.16
(1,1286)	1:40:A:GLU:CB	1:42:A:LEU:CB	4	0.14	0.03	0.14
(1,177)	1:124:A:ASP:H	1:126:A:LEU:H	4	0.14	0.03	0.13
(1,223)	1:51:A:GLY:H	1:114:A:GLY:H	4	0.14	0.03	0.13
(1,32)	1:52:A:ASP:H	1:149:A:ILE:H	4	0.13	0.04	0.12
(1,122)	1:42:A:LEU:H	1:124:A:ASP:H	4	0.12	0.02	0.12
(1,2034)	1:67:A:LEU:C	1:69:A:ARG:N	4	0.12	0.01	0.12
(1,976)	1:27:A:GLY:CA	1:30:A:LYS:CA	4	0.12	0.01	0.12
(1,4579)	1:78:A:GLU:N	1:104:A:ILE:O	3	1.11	0.66	0.65
(1,4579)	1:22:A:GLN:N	1:104:A:ILE:O	3	1.11	0.66	0.65
(1,4579)	1:79:A:ARG:N	1:104:A:ILE:O	3	1.11	0.66	0.65
(1,4564)	1:31:A:VAL:H	1:100:A:GLU:O	3	0.7	0.53	0.44
(1,4564)	1:76:A:ASP:H	1:100:A:GLU:O	3	0.7	0.53	0.44
(1,4564)	1:75:A:LYS:H	1:100:A:GLU:O	3	0.7	0.53	0.44
(1,4449)	1:45:A:PHE:H	1:120:A:HIS:O	3	0.59	0.46	0.43
(1,4449)	1:45:A:PHE:H	1:85:A:GLY:O	3	0.59	0.46	0.43
(1,4597)	1:114:A:GLY:H	1:151:A:ILE:O	3	0.58	0.4	0.43
(1,4597)	1:114:A:GLY:H	1:149:A:ILE:O	3	0.58	0.4	0.43
(1,4455)	1:47:A:VAL:O	1:118:A:VAL:N	3	0.56	0.39	0.47
(1,4455)	1:47:A:VAL:O	1:117:A:LEU:N	3	0.56	0.39	0.47
(1,4507)	1:69:A:ARG:N	1:77:A:GLU:O	3	0.52	0.17	0.63
(1,4507)	1:77:A:GLU:O	1:84:A:LEU:N	3	0.52	0.17	0.63
(1,4507)	1:68:A:SER:N	1:77:A:GLU:O	3	0.52	0.17	0.63
(1,4396)	1:21:A:GLU:H	1:30:A:LYS:O	3	0.51	0.14	0.5
(1,4511)	1:78:A:GLU:O	1:105:A:SER:N	3	0.48	0.28	0.5
(1,4511)	1:69:A:ARG:N	1:78:A:GLU:O	3	0.48	0.28	0.5
(1,4491)	1:68:A:SER:O	1:78:A:GLU:N	3	0.46	0.06	0.49
(1,4491)	1:68:A:SER:O	1:79:A:ARG:N	3	0.46	0.06	0.49
(1,4578)	1:75:A:LYS:O	1:103:A:VAL:N	3	0.36	0.24	0.28
(1,4578)	1:76:A:ASP:O	1:103:A:VAL:N	3	0.36	0.24	0.28
(1,4392)	1:29:A:VAL:O	1:101:A:ASP:H	3	0.33	0.17	0.27
(1,4392)	1:29:A:VAL:O	1:102:A:SER:H	3	0.33	0.17	0.27
(1,4443)	1:44:A:GLY:O	1:120:A:HIS:N	3	0.33	0.12	0.3
(1,4443)	1:44:A:GLY:O	1:85:A:GLY:N	3	0.33	0.12	0.3
(3,179)	1:46:A:HIS:C	2:201:A:CU:CU	3	0.3	0.07	0.34
(1,4568)	1:29:A:VAL:H	1:101:A:ASP:O	3	0.28	0.15	0.29
(1,4568)	1:75:A:LYS:H	1:101:A:ASP:O	3	0.28	0.15	0.29
(1,4626)	1:38:A:LEU:O	1:121:A:GLU:N	3	0.25	0.11	0.17

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4626)	1:40:A:GLU:O	1:121:A:GLU:N	3	0.25	0.11	0.17
(1,4626)	1:121:A:GLU:N	1:144:A:LEU:O	3	0.25	0.11	0.17
(3,137)	1:80:A:HIS:N	2:201:A:CU:CU	3	0.24	0.07	0.22
(1,2019)	1:67:A:LEU:CA	1:70:A:LYS:CA	3	0.21	0.07	0.17
(3,160)	1:113:A:ILE:N	2:201:A:CU:CU	3	0.21	0.05	0.24
(1,197)	1:52:A:ASP:H	1:148:A:VAL:H	3	0.19	0.07	0.22
(1,100)	1:46:A:HIS:H	1:83:A:ASP:H	3	0.18	0.06	0.22
(3,178)	1:45:A:PHE:C	2:201:A:CU:CU	3	0.18	0.04	0.2
(1,145)	1:115:A:ARG:H	1:117:A:LEU:H	3	0.17	0.01	0.16
(1,263)	1:27:A:GLY:H	1:102:A:SER:H	3	0.16	0.05	0.17
(3,241)	1:59:A:SER:C	2:201:A:CU:CU	3	0.16	0.05	0.13
(1,151)	1:89:A:ALA:H	1:94:A:VAL:H	3	0.15	0.05	0.12
(1,4427)	1:39:A:THR:O	1:91:A:LYS:N	3	0.15	0.01	0.16
(1,4427)	1:39:A:THR:O	1:93:A:GLY:N	3	0.15	0.01	0.16
(1,4427)	1:39:A:THR:O	1:92:A:ASP:N	3	0.15	0.01	0.16
(1,222)	1:72:A:GLY:H	1:127:A:GLY:H	3	0.15	0.03	0.13
(1,300)	1:72:A:GLY:H	1:127:A:GLY:H	3	0.15	0.03	0.13
(1,3292)	1:118:A:VAL:CB	1:120:A:HIS:CA	3	0.15	0.03	0.14
(1,977)	1:27:A:GLY:CA	1:30:A:LYS:CB	3	0.15	0.04	0.12
(3,202)	1:48:A:HIS:H	2:201:A:CU:CU	3	0.15	0.01	0.15
(1,116)	1:42:A:LEU:H	1:123:A:ALA:H	3	0.14	0.03	0.13
(3,134)	1:77:A:GLU:N	2:201:A:CU:CU	3	0.14	0.02	0.13
(3,281)	1:135:A:THR:C	2:201:A:CU:CU	3	0.14	0.03	0.14
(1,4515)	1:68:A:SER:N	1:79:A:ARG:O	3	0.13	0.03	0.12
(1,173)	1:73:A:GLY:H	1:126:A:LEU:H	3	0.13	0.01	0.14
(1,2975)	1:106:A:LEU:N	1:108:A:GLY:CA	3	0.13	0.02	0.13
(1,4107)	1:142:A:SER:C	1:145:A:ALA:CB	3	0.13	0.0	0.13
(1,64)	1:90:A:ASP:H	1:95:A:ALA:H	3	0.12	0.01	0.12
(1,262)	1:17:A:ILE:H	1:33:A:GLY:H	3	0.12	0.02	0.11
(1,280)	1:108:A:GLY:H	1:112:A:ILE:H	3	0.12	0.01	0.11
(1,4459)	1:48:A:HIS:O	1:118:A:VAL:N	2	0.78	0.26	0.78
(1,4459)	1:48:A:HIS:O	1:68:A:SER:N	2	0.78	0.26	0.78
(3,333)	1:72:A:GLY:N	2:201:A:CU:CU	2	0.68	0.57	0.68
(1,4616)	1:119:A:VAL:O	1:145:A:ALA:H	2	0.56	0.38	0.56
(1,4637)	1:119:A:VAL:O	1:145:A:ALA:H	2	0.56	0.38	0.56
(1,4528)	1:86:A:ASN:O	1:97:A:VAL:H	2	0.54	0.2	0.54
(1,4528)	1:44:A:GLY:H	1:86:A:ASN:O	2	0.54	0.2	0.54
(1,4583)	1:105:A:SER:O	1:112:A:ILE:N	2	0.5	0.1	0.5
(1,182)	1:7:A:VAL:H	1:150:A:GLY:H	2	0.48	0.24	0.48
(1,4498)	1:69:A:ARG:N	1:78:A:GLU:O	2	0.46	0.0	0.46
(1,4498)	1:69:A:ARG:N	1:79:A:ARG:O	2	0.46	0.0	0.46
(1,4452)	1:46:A:HIS:O	1:85:A:GLY:H	2	0.46	0.23	0.46

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(1,4452)	1:46:A:HIS:O	1:118:A:VAL:H	2	0.46	0.23	0.46
(1,79)	1:119:A:VAL:H	1:144:A:LEU:H	2	0.44	0.16	0.44
(1,160)	1:70:A:LYS:H	1:80:A:HIS:H	2	0.44	0.26	0.44
(1,4402)	1:31:A:VAL:N	1:100:A:GLU:O	2	0.43	0.3	0.43
(1,4402)	1:31:A:VAL:N	1:99:A:ILE:O	2	0.43	0.3	0.43
(1,4590)	1:112:A:ILE:N	1:149:A:ILE:O	2	0.38	0.1	0.38
(1,132)	1:40:A:GLU:H	1:92:A:ASP:H	2	0.35	0.06	0.35
(1,4522)	1:45:A:PHE:O	1:84:A:LEU:N	2	0.35	0.0	0.35
(1,4522)	1:46:A:HIS:O	1:84:A:LEU:N	2	0.35	0.0	0.35
(1,96)	1:15:A:GLN:H	1:38:A:LEU:H	2	0.34	0.2	0.34
(1,4526)	1:46:A:HIS:O	1:85:A:GLY:N	2	0.34	0.19	0.34
(1,4526)	1:44:A:GLY:O	1:85:A:GLY:N	2	0.34	0.19	0.34
(1,294)	1:37:A:GLY:H	1:40:A:GLU:H	2	0.32	0.02	0.32
(1,4502)	1:68:A:SER:O	1:75:A:LYS:N	2	0.32	0.16	0.32
(1,4502)	1:44:A:GLY:O	1:75:A:LYS:N	2	0.32	0.16	0.32
(1,4506)	1:76:A:ASP:N	1:101:A:ASP:O	2	0.3	0.01	0.3
(1,4506)	1:76:A:ASP:N	1:84:A:LEU:O	2	0.3	0.01	0.3
(1,4348)	1:8:A:LEU:O	1:14:A:VAL:H	2	0.24	0.01	0.24
(1,4348)	1:8:A:LEU:O	1:16:A:GLY:H	2	0.24	0.01	0.24
(1,4475)	1:10:A:GLY:N	1:55:A:ALA:O	2	0.23	0.08	0.23
(1,4475)	1:55:A:ALA:O	1:143:A:ARG:N	2	0.23	0.08	0.23
(1,4387)	1:2:A:THR:N	1:22:A:GLN:O	2	0.22	0.11	0.22
(1,4108)	1:142:A:SER:C	1:145:A:ALA:C	2	0.22	0.1	0.22
(1,220)	1:72:A:GLY:H	1:78:A:GLU:H	2	0.21	0.01	0.21
(3,265)	1:100:A:GLU:C	2:201:A:CU:CU	2	0.2	0.09	0.2
(3,159)	1:112:A:ILE:N	2:201:A:CU:CU	2	0.2	0.05	0.2
(1,117)	1:76:A:ASP:H	1:78:A:GLU:H	2	0.2	0.02	0.2
(1,289)	1:116:A:THR:H	1:147:A:GLY:H	2	0.2	0.01	0.2
(1,138)	1:72:A:GLY:H	1:79:A:ARG:H	2	0.18	0.05	0.18
(1,139)	1:69:A:ARG:H	1:78:A:GLU:H	2	0.18	0.04	0.18
(1,218)	1:72:A:GLY:H	1:79:A:ARG:H	2	0.18	0.05	0.18
(3,203)	1:63:A:HIS:H	2:201:A:CU:CU	2	0.18	0.01	0.18
(1,4445)	1:42:A:LEU:O	1:44:A:GLY:H	2	0.18	0.06	0.18
(3,195)	1:138:A:GLY:C	2:201:A:CU:CU	2	0.17	0.03	0.17
(3,182)	1:62:A:PRO:C	2:201:A:CU:CU	2	0.17	0.01	0.17
(3,193)	1:128:A:LYS:C	2:201:A:CU:CU	2	0.17	0.01	0.17
(2,10700)	1:86:A:ASN:C	1:89:A:ALA:C	2	0.16	0.06	0.16
(1,4514)	1:67:A:LEU:O	1:78:A:GLU:N	2	0.16	0.04	0.16
(1,235)	1:116:A:THR:H	1:118:A:VAL:H	2	0.16	0.03	0.16
(1,3480)	1:126:A:LEU:CA	1:128:A:LYS:C	2	0.16	0.02	0.16
(2,158)	1:107:A:SER:N	1:109:A:ASP:N	2	0.16	0.02	0.16
(1,2064)	1:68:A:SER:CB	1:70:A:LYS:C	2	0.16	0.04	0.16

Continued on next page...

Continued from previous page...

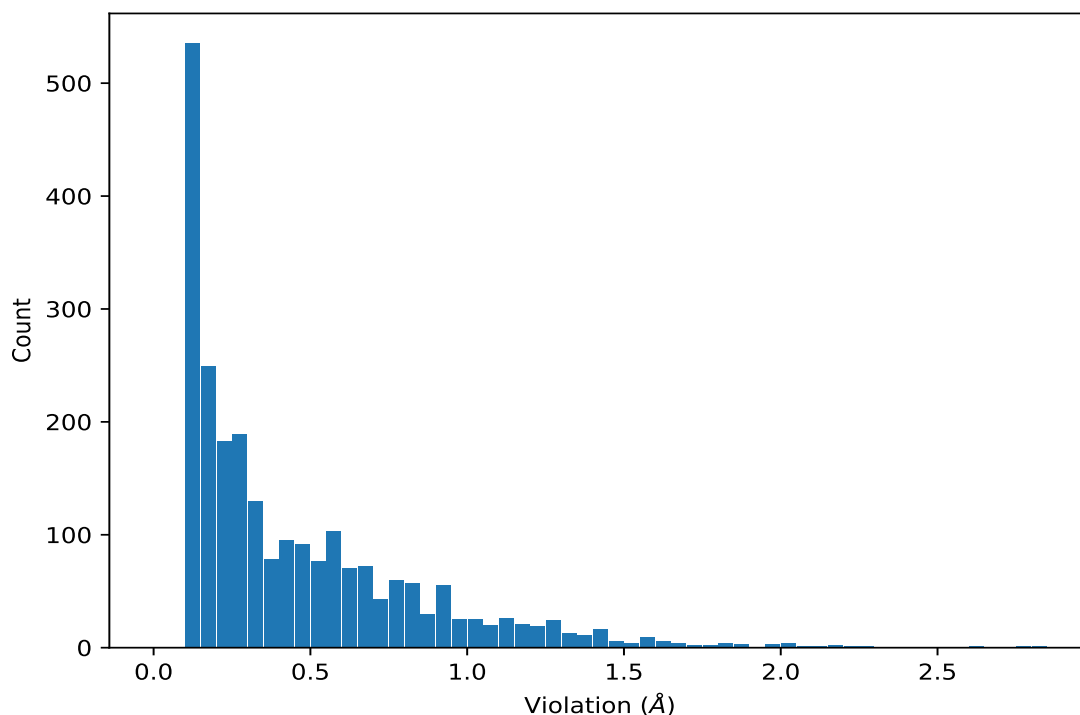
Key	Atom-1	Atom-2	Models ¹	Mean (Å)	SD ¹ (Å)	Median (Å)
(2,10545)	1:86:A:ASN:N	1:89:A:ALA:C	2	0.16	0.04	0.16
(1,75)	1:35:A:ILE:H	1:97:A:VAL:H	2	0.15	0.0	0.15
(2,10616)	1:86:A:ASN:CB	1:89:A:ALA:C	2	0.15	0.03	0.15
(3,95)	1:12:A:GLY:N	2:201:A:CU:CU	2	0.14	0.03	0.14
(1,133)	1:70:A:LYS:H	1:78:A:GLU:H	2	0.14	0.01	0.14
(1,2974)	1:105:A:SER:C	1:109:A:ASP:N	2	0.14	0.02	0.14
(1,130)	1:53:A:ASN:H	1:60:A:ALA:H	2	0.14	0.04	0.14
(1,174)	1:53:A:ASN:H	1:57:A:CYS:H	2	0.14	0.02	0.14
(1,23)	1:23:A:LYS:H	1:106:A:LEU:H	2	0.13	0.01	0.13
(1,1296)	1:40:A:GLU:C	1:42:A:LEU:CB	2	0.13	0.01	0.13
(1,2576)	1:90:A:ASP:CB	1:92:A:ASP:CG	2	0.13	0.02	0.13
(1,251)	1:111:A:SER:H	1:115:A:ARG:H	2	0.12	0.01	0.12
(1,1099)	1:31:A:VAL:C	1:34:A:SER:CB	2	0.12	0.01	0.12
(1,236)	1:60:A:ALA:H	1:116:A:THR:H	2	0.12	0.0	0.12
(1,603)	1:13:A:PRO:CD	1:15:A:GLN:N	2	0.12	0.0	0.12
(1,255)	1:42:A:LEU:H	1:44:A:GLY:H	2	0.12	0.0	0.12
(1,266)	1:33:A:GLY:H	1:97:A:VAL:H	2	0.12	0.0	0.12
(1,219)	1:72:A:GLY:H	1:80:A:HIS:H	2	0.11	0.01	0.11
(1,3940)	1:136:A:LYS:CG	1:138:A:GLY:C	2	0.11	0.01	0.11
(2,1237)	1:4:A:ALA:CB	1:8:A:LEU:CA	2	0.11	0.01	0.11
(1,111)	1:17:A:ILE:H	1:33:A:GLY:H	2	0.11	0.0	0.11
(1,1314)	1:41:A:GLY:C	1:43:A:HIS:CB	2	0.11	0.0	0.11

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)
(1,4580)	1:22:A:GLN:H	1:104:A:ILE:O	2	2.81
(1,4436)	1:41:A:GLY:O	1:44:A:GLY:H	4	2.77
(3,371)	1:132:A:GLU:N	2:201:A:CU:CU	18	2.6
(3,371)	1:132:A:GLU:N	2:201:A:CU:CU	19	2.3
(3,198)	1:143:A:ARG:C	2:201:A:CU:CU	11	2.2
(1,4508)	1:77:A:GLU:O	1:84:A:LEU:H	13	2.16
(3,371)	1:132:A:GLU:N	2:201:A:CU:CU	6	2.15
(3,371)	1:132:A:GLU:N	2:201:A:CU:CU	16	2.13
(1,4496)	1:69:A:ARG:O	1:77:A:GLU:H	3	2.09
(1,4579)	1:22:A:GLN:N	1:104:A:ILE:O	2	2.04
(1,4480)	1:56:A:GLY:O	1:147:A:GLY:H	1	2.02
(1,4633)	1:119:A:VAL:O	1:144:A:LEU:H	18	2.01
(1,4436)	1:41:A:GLY:O	1:91:A:LYS:H	5	2.01
(1,4464)	1:49:A:GLU:O	1:116:A:THR:H	7	1.99
(1,4489)	1:67:A:LEU:H	1:79:A:ARG:O	16	1.97
(1,4633)	1:9:A:LYS:O	1:144:A:LEU:H	13	1.96

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4480)	1:56:A:GLY:O	1:146:A:CYS:H	12	1.9
(1,4620)	1:46:A:HIS:H	1:120:A:HIS:O	16	1.89
(1,4489)	1:67:A:LEU:H	1:105:A:SER:O	6	1.85
(1,4435)	1:41:A:GLY:O	1:44:A:GLY:N	4	1.82
(1,4473)	1:54:A:THR:H	1:146:A:CYS:O	17	1.81
(1,4473)	1:54:A:THR:H	1:147:A:GLY:O	15	1.8
(1,4388)	1:2:A:THR:H	1:22:A:GLN:O	10	1.8
(1,4480)	1:56:A:GLY:O	1:146:A:CYS:H	14	1.78
(1,4509)	1:77:A:GLU:H	1:104:A:ILE:O	15	1.75
(3,371)	1:132:A:GLU:N	2:201:A:CU:CU	1	1.74
(1,4505)	1:76:A:ASP:H	1:101:A:ASP:O	19	1.73
(1,4621)	1:42:A:LEU:O	1:120:A:HIS:H	19	1.69
(1,4620)	1:42:A:LEU:H	1:120:A:HIS:O	8	1.69
(1,4585)	1:21:A:GLU:O	1:105:A:SER:H	13	1.69
(1,4480)	1:56:A:GLY:O	1:147:A:GLY:H	18	1.66
(1,4473)	1:54:A:THR:H	1:147:A:GLY:O	3	1.65
(1,4633)	1:119:A:VAL:O	1:144:A:LEU:H	11	1.63
(1,4480)	1:56:A:GLY:O	1:146:A:CYS:H	6	1.63
(1,4577)	1:84:A:LEU:O	1:103:A:VAL:H	17	1.62
(1,4521)	1:46:A:HIS:O	1:84:A:LEU:H	15	1.62
(1,4488)	1:67:A:LEU:O	1:79:A:ARG:H	5	1.61
(1,4480)	1:56:A:GLY:O	1:146:A:CYS:H	10	1.59
(1,4473)	1:54:A:THR:H	1:114:A:GLY:O	8	1.59
(1,4585)	1:21:A:GLU:O	1:105:A:SER:H	17	1.58
(1,4589)	1:112:A:ILE:H	1:149:A:ILE:O	9	1.57
(1,4448)	1:45:A:PHE:O	1:120:A:HIS:H	15	1.57
(1,4460)	1:48:A:HIS:O	1:68:A:SER:H	17	1.56
(1,4356)	1:10:A:GLY:O	1:146:A:CYS:H	7	1.56
(1,4629)	1:57:A:CYS:O	1:143:A:ARG:H	13	1.55
(1,4484)	1:57:A:CYS:O	1:143:A:ARG:H	13	1.55
(1,4589)	1:112:A:ILE:H	1:151:A:ILE:O	3	1.52
(3,84)	1:150:A:GLY:C	2:201:A:CU:CU	8	1.5
(1,4633)	1:55:A:ALA:O	1:144:A:LEU:H	6	1.5
(1,4521)	1:84:A:LEU:H	1:98:A:SER:O	19	1.5
(1,4628)	1:10:A:GLY:H	1:143:A:ARG:O	14	1.48
(1,4628)	1:57:A:CYS:H	1:143:A:ARG:O	15	1.48
(1,4620)	1:42:A:LEU:H	1:120:A:HIS:O	1	1.48
(1,4548)	1:33:A:GLY:H	1:96:A:ASP:O	2	1.47
(1,4620)	1:42:A:LEU:H	1:120:A:HIS:O	9	1.46
(1,4493)	1:68:A:SER:H	1:79:A:ARG:O	12	1.46
(1,4480)	1:56:A:GLY:O	1:146:A:CYS:H	17	1.45
(1,4473)	1:54:A:THR:H	1:114:A:GLY:O	9	1.45

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4469)	1:50:A:PHE:H	1:116:A:THR:O	3	1.45
(1,4441)	1:42:A:LEU:H	1:121:A:GLU:O	9	1.45
(1,4436)	1:41:A:GLY:O	1:94:A:VAL:H	10	1.45
(1,4572)	1:77:A:GLU:H	1:102:A:SER:O	9	1.44
(1,4564)	1:31:A:VAL:H	1:100:A:GLU:O	9	1.44
(1,4489)	1:67:A:LEU:H	1:79:A:ARG:O	11	1.44
(1,4529)	1:86:A:ASN:H	1:98:A:SER:O	9	1.42
(1,4500)	1:75:A:LYS:O	1:100:A:GLU:H	11	1.42
(1,4469)	1:50:A:PHE:H	1:116:A:THR:O	17	1.42
(1,4589)	1:112:A:ILE:H	1:149:A:ILE:O	18	1.41
(1,4565)	1:84:A:LEU:O	1:100:A:GLU:H	7	1.41
(1,4501)	1:75:A:LYS:H	1:84:A:LEU:O	13	1.41
(1,4436)	1:41:A:GLY:O	1:44:A:GLY:H	15	1.41
(1,107)	1:46:A:HIS:H	1:119:A:VAL:H	7	1.41
(1,4464)	1:49:A:GLU:O	1:116:A:THR:H	8	1.4
(1,4548)	1:33:A:GLY:H	1:96:A:ASP:O	18	1.39
(1,4589)	1:48:A:HIS:O	1:112:A:ILE:H	11	1.38
(1,4560)	1:31:A:VAL:H	1:99:A:ILE:O	1	1.38
(1,4480)	1:56:A:GLY:O	1:147:A:GLY:H	2	1.37
(1,4484)	1:57:A:CYS:O	1:143:A:ARG:H	2	1.36
(1,4484)	1:57:A:CYS:O	1:143:A:ARG:H	3	1.36
(1,4473)	1:54:A:THR:H	1:114:A:GLY:O	16	1.36
(1,4473)	1:7:A:VAL:O	1:54:A:THR:H	18	1.36
(1,4589)	1:105:A:SER:O	1:112:A:ILE:H	5	1.35
(1,4584)	1:105:A:SER:O	1:112:A:ILE:H	5	1.35
(1,4501)	1:75:A:LYS:H	1:85:A:GLY:O	11	1.34
(1,4480)	1:56:A:GLY:O	1:147:A:GLY:H	7	1.33
(1,4589)	1:112:A:ILE:H	1:149:A:ILE:O	12	1.32
(1,4536)	1:36:A:LYS:H	1:92:A:ASP:O	19	1.32
(1,4501)	1:75:A:LYS:H	1:85:A:GLY:O	1	1.32
(1,4480)	1:56:A:GLY:O	1:147:A:GLY:H	3	1.32
(1,4480)	1:56:A:GLY:O	1:116:A:THR:H	8	1.32
(1,4473)	1:54:A:THR:H	1:114:A:GLY:O	1	1.32
(1,4576)	1:29:A:VAL:H	1:103:A:VAL:O	18	1.31
(1,4480)	1:56:A:GLY:O	1:147:A:GLY:H	15	1.31
(1,4592)	1:113:A:ILE:O	1:151:A:ILE:H	13	1.3
(1,4577)	1:75:A:LYS:O	1:103:A:VAL:H	13	1.3
(1,4436)	1:41:A:GLY:O	1:94:A:VAL:H	8	1.3
(1,4589)	1:112:A:ILE:H	1:149:A:ILE:O	1	1.29
(1,4547)	1:33:A:GLY:N	1:96:A:ASP:O	2	1.29
(3,198)	1:143:A:ARG:C	2:201:A:CU:CU	3	1.28
(1,4473)	1:54:A:THR:H	1:146:A:CYS:O	10	1.28

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4441)	1:42:A:LEU:H	1:121:A:GLU:O	16	1.28
(1,4432)	1:40:A:GLU:O	1:91:A:LYS:H	5	1.28
(1,4593)	1:113:A:ILE:H	1:149:A:ILE:O	5	1.27
(1,4592)	1:113:A:ILE:O	1:149:A:ILE:H	1	1.27
(1,4589)	1:112:A:ILE:H	1:151:A:ILE:O	15	1.27
(1,4585)	1:76:A:ASP:O	1:105:A:SER:H	5	1.27
(1,4559)	1:31:A:VAL:N	1:99:A:ILE:O	1	1.27
(1,4537)	1:38:A:LEU:O	1:92:A:ASP:H	18	1.27
(1,4504)	1:76:A:ASP:O	1:105:A:SER:H	12	1.27
(3,333)	1:72:A:GLY:N	2:201:A:CU:CU	6	1.26
(1,4592)	1:113:A:ILE:O	1:149:A:ILE:H	12	1.26
(1,4589)	1:112:A:ILE:H	1:149:A:ILE:O	8	1.26
(1,4480)	1:56:A:GLY:O	1:146:A:CYS:H	13	1.26
(1,4620)	1:42:A:LEU:H	1:120:A:HIS:O	15	1.25
(1,4533)	1:40:A:GLU:O	1:91:A:LYS:H	10	1.25
(1,4480)	1:56:A:GLY:O	1:147:A:GLY:H	9	1.25
(1,4473)	1:54:A:THR:H	1:114:A:GLY:O	12	1.25
(1,4432)	1:40:A:GLU:O	1:91:A:LYS:H	10	1.25
(1,4428)	1:39:A:THR:O	1:91:A:LYS:H	3	1.25
(1,26)	1:48:A:HIS:H	1:149:A:ILE:H	17	1.25
(1,4629)	1:57:A:CYS:O	1:143:A:ARG:H	16	1.24
(1,4576)	1:84:A:LEU:H	1:103:A:VAL:O	17	1.24
(1,4547)	1:33:A:GLY:N	1:96:A:ASP:O	18	1.24
(1,4541)	1:38:A:LEU:O	1:93:A:GLY:H	13	1.24
(1,4536)	1:36:A:LYS:H	1:92:A:ASP:O	16	1.24
(1,4489)	1:67:A:LEU:H	1:79:A:ARG:O	9	1.24
(1,4484)	1:57:A:CYS:O	1:143:A:ARG:H	16	1.24
(1,4480)	1:56:A:GLY:O	1:147:A:GLY:H	19	1.24
(1,169)	1:49:A:GLU:H	1:111:A:SER:H	12	1.24
(1,4633)	1:119:A:VAL:O	1:144:A:LEU:H	15	1.23
(1,4573)	1:75:A:LYS:O	1:102:A:SER:H	13	1.23
(1,4509)	1:68:A:SER:O	1:77:A:GLU:H	9	1.23
(1,4537)	1:38:A:LEU:O	1:92:A:ASP:H	6	1.22
(1,4536)	1:39:A:THR:H	1:92:A:ASP:O	1	1.22
(1,4449)	1:45:A:PHE:H	1:85:A:GLY:O	19	1.22
(1,4625)	1:41:A:GLY:O	1:121:A:GLU:H	11	1.21
(1,4589)	1:112:A:ILE:H	1:149:A:ILE:O	19	1.21
(1,4504)	1:76:A:ASP:O	1:104:A:ILE:H	19	1.21
(1,4473)	1:54:A:THR:H	1:114:A:GLY:O	19	1.21
(1,4592)	1:113:A:ILE:O	1:151:A:ILE:H	10	1.2
(1,4537)	1:38:A:LEU:O	1:92:A:ASP:H	17	1.2
(1,4501)	1:44:A:GLY:O	1:75:A:LYS:H	6	1.2

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4388)	1:22:A:GLN:O	1:112:A:ILE:H	13	1.2
(1,4629)	1:119:A:VAL:O	1:143:A:ARG:H	3	1.19
(1,4592)	1:113:A:ILE:O	1:151:A:ILE:H	19	1.19
(1,4589)	1:104:A:ILE:O	1:112:A:ILE:H	10	1.19
(1,4401)	1:21:A:GLU:O	1:31:A:VAL:H	15	1.19
(1,4325)	1:2:A:THR:H	1:20:A:PHE:O	9	1.19
(1,4585)	1:77:A:GLU:O	1:105:A:SER:H	6	1.18
(1,4576)	1:84:A:LEU:H	1:103:A:VAL:O	14	1.18
(1,4548)	1:86:A:ASN:H	1:96:A:ASP:O	6	1.18
(1,4456)	1:47:A:VAL:O	1:118:A:VAL:H	16	1.18
(1,4508)	1:77:A:GLU:O	1:104:A:ILE:H	19	1.17
(1,4464)	1:49:A:GLU:O	1:116:A:THR:H	4	1.17
(3,198)	1:143:A:ARG:C	2:201:A:CU:CU	7	1.16
(1,4633)	1:55:A:ALA:O	1:144:A:LEU:H	12	1.16
(1,4629)	1:57:A:CYS:O	1:143:A:ARG:H	15	1.16
(1,4529)	1:86:A:ASN:H	1:98:A:SER:O	18	1.16
(1,4484)	1:57:A:CYS:O	1:143:A:ARG:H	15	1.16
(1,4477)	1:55:A:ALA:H	1:146:A:CYS:O	16	1.16
(1,4625)	1:38:A:LEU:O	1:121:A:GLU:H	8	1.15
(1,4577)	1:21:A:GLU:O	1:103:A:VAL:H	11	1.15
(1,4556)	1:86:A:ASN:H	1:98:A:SER:O	17	1.15
(1,4529)	1:86:A:ASN:H	1:98:A:SER:O	17	1.15
(1,4436)	1:41:A:GLY:O	1:91:A:LYS:H	12	1.15
(1,4589)	1:112:A:ILE:H	1:149:A:ILE:O	14	1.14
(1,4469)	1:50:A:PHE:H	1:116:A:THR:O	19	1.14
(1,4620)	1:44:A:GLY:H	1:120:A:HIS:O	19	1.13
(1,4597)	1:114:A:GLY:H	1:151:A:ILE:O	2	1.13
(1,4592)	1:50:A:PHE:H	1:113:A:ILE:O	11	1.13
(1,4581)	1:21:A:GLU:O	1:104:A:ILE:H	13	1.13
(1,4473)	1:54:A:THR:H	1:115:A:ARG:O	7	1.13
(1,4469)	1:50:A:PHE:H	1:113:A:ILE:O	11	1.13
(1,4448)	1:45:A:PHE:O	1:85:A:GLY:H	19	1.13
(1,4428)	1:39:A:THR:O	1:93:A:GLY:H	6	1.13
(1,4620)	1:42:A:LEU:H	1:120:A:HIS:O	2	1.12
(1,4592)	1:50:A:PHE:H	1:113:A:ILE:O	8	1.12
(1,4592)	1:113:A:ILE:O	1:151:A:ILE:H	14	1.12
(1,4536)	1:36:A:LYS:H	1:92:A:ASP:O	8	1.12
(1,4505)	1:76:A:ASP:H	1:102:A:SER:O	5	1.12
(1,4488)	1:49:A:GLU:H	1:67:A:LEU:O	8	1.12
(1,4465)	1:49:A:GLU:H	1:67:A:LEU:O	8	1.12
(1,4388)	1:2:A:THR:H	1:22:A:GLN:O	17	1.12
(1,4513)	1:78:A:GLU:H	1:102:A:SER:O	11	1.1

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4480)	1:56:A:GLY:O	1:147:A:GLY:H	16	1.1
(1,4477)	1:55:A:ALA:H	1:146:A:CYS:O	19	1.1
(1,4584)	1:84:A:LEU:H	1:105:A:SER:O	10	1.09
(1,4556)	1:31:A:VAL:H	1:98:A:SER:O	11	1.09
(1,4536)	1:36:A:LYS:H	1:92:A:ASP:O	5	1.09
(1,4388)	1:2:A:THR:H	1:22:A:GLN:O	8	1.09
(1,4325)	1:2:A:THR:H	1:22:A:GLN:O	8	1.09
(1,4537)	1:39:A:THR:O	1:92:A:ASP:H	7	1.08
(1,4455)	1:47:A:VAL:O	1:118:A:VAL:N	16	1.08
(1,4428)	1:39:A:THR:O	1:93:A:GLY:H	2	1.08
(1,4428)	1:39:A:THR:O	1:92:A:ASP:H	7	1.08
(1,4584)	1:79:A:ARG:H	1:105:A:SER:O	9	1.07
(1,4572)	1:77:A:GLU:H	1:102:A:SER:O	13	1.07
(1,4556)	1:31:A:VAL:H	1:98:A:SER:O	18	1.07
(1,4508)	1:77:A:GLU:O	1:104:A:ILE:H	2	1.07
(1,4428)	1:39:A:THR:O	1:93:A:GLY:H	1	1.07
(1,4619)	1:42:A:LEU:N	1:120:A:HIS:O	2	1.06
(1,4580)	1:78:A:GLU:H	1:104:A:ILE:O	15	1.06
(1,4556)	1:86:A:ASN:H	1:98:A:SER:O	4	1.06
(1,4548)	1:33:A:GLY:H	1:96:A:ASP:O	3	1.06
(1,4548)	1:86:A:ASN:H	1:96:A:ASP:O	7	1.06
(1,4428)	1:39:A:THR:O	1:91:A:LYS:H	18	1.05
(1,4556)	1:31:A:VAL:H	1:98:A:SER:O	14	1.04
(1,4529)	1:86:A:ASN:H	1:96:A:ASP:O	8	1.04
(1,4508)	1:77:A:GLU:O	1:102:A:SER:H	11	1.04
(1,4589)	1:105:A:SER:O	1:112:A:ILE:H	13	1.03
(1,4589)	1:49:A:GLU:O	1:112:A:ILE:H	16	1.03
(1,4584)	1:105:A:SER:O	1:112:A:ILE:H	13	1.03
(1,4555)	1:86:A:ASN:N	1:98:A:SER:O	4	1.03
(1,4459)	1:48:A:HIS:O	1:68:A:SER:N	17	1.03
(1,4433)	1:40:A:GLU:H	1:121:A:GLU:O	8	1.03
(1,4628)	1:57:A:CYS:H	1:143:A:ARG:O	5	1.02
(1,4580)	1:79:A:ARG:H	1:104:A:ILE:O	16	1.02
(1,4573)	1:77:A:GLU:O	1:102:A:SER:H	9	1.02
(1,4509)	1:68:A:SER:O	1:77:A:GLU:H	3	1.02
(1,4473)	1:54:A:THR:H	1:114:A:GLY:O	11	1.02
(1,4436)	1:41:A:GLY:O	1:121:A:GLU:H	19	1.02
(1,4428)	1:39:A:THR:O	1:91:A:LYS:H	17	1.02
(1,4628)	1:57:A:CYS:H	1:143:A:ARG:O	1	1.01
(1,4536)	1:36:A:LYS:H	1:92:A:ASP:O	4	1.01
(1,4504)	1:69:A:ARG:H	1:76:A:ASP:O	6	1.01
(1,4516)	1:67:A:LEU:H	1:79:A:ARG:O	3	1.0

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4512)	1:69:A:ARG:H	1:78:A:GLU:O	2	1.0
(1,4508)	1:69:A:ARG:H	1:77:A:GLU:O	14	1.0
(1,4505)	1:76:A:ASP:H	1:101:A:ASP:O	13	1.0
(1,4492)	1:68:A:SER:O	1:79:A:ARG:H	17	1.0
(1,4469)	1:50:A:PHE:H	1:112:A:ILE:O	13	1.0
(1,4629)	1:57:A:CYS:O	1:143:A:ARG:H	7	0.99
(1,4629)	1:57:A:CYS:O	1:143:A:ARG:H	10	0.99
(1,4533)	1:38:A:LEU:O	1:91:A:LYS:H	15	0.99
(1,4505)	1:76:A:ASP:H	1:101:A:ASP:O	1	0.99
(1,4484)	1:57:A:CYS:O	1:143:A:ARG:H	7	0.99
(1,4484)	1:57:A:CYS:O	1:143:A:ARG:H	10	0.99
(1,4464)	1:49:A:GLU:O	1:116:A:THR:H	5	0.99
(1,4405)	1:18:A:ILE:O	1:32:A:TRP:H	13	0.99
(1,169)	1:49:A:GLU:H	1:83:A:ASP:H	6	0.99
(1,4592)	1:49:A:GLU:H	1:113:A:ILE:O	17	0.98
(1,4584)	1:22:A:GLN:H	1:105:A:SER:O	16	0.98
(1,4580)	1:79:A:ARG:H	1:104:A:ILE:O	3	0.98
(1,4537)	1:40:A:GLU:O	1:92:A:ASP:H	12	0.98
(1,4480)	1:56:A:GLY:O	1:147:A:GLY:H	5	0.98
(1,4389)	1:22:A:GLN:H	1:105:A:SER:O	16	0.98
(1,4520)	1:84:A:LEU:O	1:99:A:ILE:H	3	0.97
(1,4495)	1:69:A:ARG:O	1:78:A:GLU:N	3	0.97
(1,4481)	1:56:A:GLY:H	1:146:A:CYS:O	16	0.97
(1,4436)	1:41:A:GLY:O	1:91:A:LYS:H	3	0.97
(1,4632)	1:9:A:LYS:H	1:144:A:LEU:O	18	0.96
(1,4555)	1:86:A:ASN:N	1:98:A:SER:O	17	0.96
(1,4536)	1:40:A:GLU:H	1:92:A:ASP:O	10	0.96
(1,4533)	1:38:A:LEU:O	1:91:A:LYS:H	5	0.96
(1,4505)	1:76:A:ASP:H	1:101:A:ASP:O	6	0.96
(1,4473)	1:54:A:THR:H	1:146:A:CYS:O	6	0.96
(3,198)	1:143:A:ARG:C	2:201:A:CU:CU	4	0.95
(1,4580)	1:79:A:ARG:H	1:104:A:ILE:O	1	0.95
(1,4580)	1:77:A:GLU:H	1:104:A:ILE:O	18	0.95
(1,4577)	1:75:A:LYS:O	1:103:A:VAL:H	7	0.95
(1,4536)	1:36:A:LYS:H	1:92:A:ASP:O	9	0.95
(1,4509)	1:77:A:GLU:H	1:104:A:ILE:O	18	0.95
(1,4501)	1:75:A:LYS:H	1:101:A:ASP:O	2	0.95
(1,4489)	1:67:A:LEU:H	1:78:A:GLU:O	10	0.95
(1,4476)	1:55:A:ALA:O	1:146:A:CYS:H	5	0.95
(1,4473)	1:7:A:VAL:O	1:54:A:THR:H	2	0.95
(1,4460)	1:48:A:HIS:O	1:116:A:THR:H	11	0.95
(1,4401)	1:31:A:VAL:H	1:100:A:GLU:O	1	0.95

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4388)	1:2:A:THR:H	1:22:A:GLN:O	11	0.95
(1,4356)	1:10:A:GLY:O	1:14:A:VAL:H	4	0.95
(1,4356)	1:10:A:GLY:O	1:14:A:VAL:H	11	0.95
(1,4637)	1:119:A:VAL:O	1:145:A:ALA:H	12	0.94
(1,4629)	1:57:A:CYS:O	1:143:A:ARG:H	5	0.94
(1,4616)	1:119:A:VAL:O	1:145:A:ALA:H	12	0.94
(1,4592)	1:113:A:ILE:O	1:151:A:ILE:H	9	0.94
(1,4576)	1:84:A:LEU:H	1:103:A:VAL:O	4	0.94
(1,4556)	1:31:A:VAL:H	1:98:A:SER:O	3	0.94
(1,4548)	1:86:A:ASN:H	1:96:A:ASP:O	15	0.94
(1,4547)	1:33:A:GLY:N	1:96:A:ASP:O	3	0.94
(1,4521)	1:84:A:LEU:H	1:103:A:VAL:O	4	0.94
(1,4520)	1:20:A:PHE:H	1:84:A:LEU:O	18	0.94
(1,4501)	1:75:A:LYS:H	1:102:A:SER:O	12	0.94
(1,4492)	1:68:A:SER:O	1:79:A:ARG:H	16	0.94
(1,4484)	1:57:A:CYS:O	1:143:A:ARG:H	5	0.94
(1,4477)	1:55:A:ALA:H	1:146:A:CYS:O	5	0.94
(1,4460)	1:48:A:HIS:O	1:118:A:VAL:H	1	0.94
(1,4388)	1:2:A:THR:H	1:22:A:GLN:O	4	0.94
(1,4621)	1:45:A:PHE:O	1:120:A:HIS:H	5	0.93
(1,4621)	1:42:A:LEU:O	1:120:A:HIS:H	10	0.93
(1,4513)	1:68:A:SER:O	1:78:A:GLU:H	5	0.93
(1,4621)	1:45:A:PHE:O	1:120:A:HIS:H	7	0.92
(1,4555)	1:31:A:VAL:N	1:98:A:SER:O	11	0.92
(1,4555)	1:31:A:VAL:N	1:98:A:SER:O	14	0.92
(1,4536)	1:39:A:THR:H	1:92:A:ASP:O	3	0.92
(1,4509)	1:68:A:SER:O	1:77:A:GLU:H	8	0.92
(1,176)	1:86:A:ASN:H	1:88:A:THR:H	7	0.92
(1,169)	1:49:A:GLU:H	1:83:A:ASP:H	13	0.92
(1,91)	1:119:A:VAL:H	1:121:A:GLU:H	3	0.92
(1,4625)	1:38:A:LEU:O	1:121:A:GLU:H	2	0.91
(1,4529)	1:86:A:ASN:H	1:98:A:SER:O	12	0.91
(1,4481)	1:56:A:GLY:H	1:146:A:CYS:O	5	0.91
(1,4356)	1:10:A:GLY:O	1:14:A:VAL:H	5	0.91
(1,4324)	1:2:A:THR:O	1:21:A:GLU:H	19	0.91
(1,4592)	1:50:A:PHE:H	1:113:A:ILE:O	6	0.9
(1,4521)	1:84:A:LEU:H	1:101:A:ASP:O	17	0.9
(1,4521)	1:84:A:LEU:H	1:149:A:ILE:O	18	0.9
(1,4509)	1:68:A:SER:O	1:77:A:GLU:H	2	0.9
(1,4494)	1:68:A:SER:N	1:76:A:ASP:O	12	0.9
(1,4405)	1:18:A:ILE:O	1:32:A:TRP:H	18	0.9
(1,4356)	1:10:A:GLY:O	1:146:A:CYS:H	16	0.9

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,12)	1:117:A:LEU:H	1:150:A:GLY:H	4	0.9
(1,4621)	1:120:A:HIS:H	1:145:A:ALA:O	6	0.89
(1,4576)	1:21:A:GLU:H	1:103:A:VAL:O	7	0.89
(1,4537)	1:38:A:LEU:O	1:92:A:ASP:H	10	0.89
(1,4533)	1:41:A:GLY:O	1:91:A:LYS:H	17	0.89
(1,4513)	1:67:A:LEU:O	1:78:A:GLU:H	18	0.89
(1,4496)	1:69:A:ARG:O	1:79:A:ARG:H	5	0.89
(1,4465)	1:49:A:GLU:H	1:116:A:THR:O	14	0.89
(1,4436)	1:41:A:GLY:O	1:91:A:LYS:H	17	0.89
(1,4576)	1:21:A:GLU:H	1:103:A:VAL:O	11	0.88
(1,4512)	1:69:A:ARG:H	1:78:A:GLU:O	14	0.88
(1,4509)	1:67:A:LEU:O	1:77:A:GLU:H	10	0.88
(1,120)	1:149:A:ILE:H	1:151:A:ILE:H	5	0.88
(1,12)	1:117:A:LEU:H	1:150:A:GLY:H	8	0.88
(1,4577)	1:76:A:ASP:O	1:103:A:VAL:H	14	0.87
(1,4556)	1:31:A:VAL:H	1:98:A:SER:O	12	0.87
(1,4548)	1:33:A:GLY:H	1:96:A:ASP:O	11	0.87
(1,4504)	1:76:A:ASP:O	1:104:A:ILE:H	8	0.87
(1,4477)	1:55:A:ALA:H	1:146:A:CYS:O	8	0.87
(1,4473)	1:54:A:THR:H	1:146:A:CYS:O	14	0.87
(1,4468)	1:50:A:PHE:O	1:116:A:THR:H	19	0.87
(1,4464)	1:49:A:GLU:O	1:116:A:THR:H	9	0.87
(1,4444)	1:44:A:GLY:O	1:85:A:GLY:H	18	0.87
(1,4388)	1:22:A:GLN:O	1:29:A:VAL:H	9	0.87
(1,11)	1:48:A:HIS:H	1:83:A:ASP:H	12	0.87
(1,4598)	1:114:A:GLY:N	1:151:A:ILE:O	2	0.86
(1,4536)	1:39:A:THR:H	1:92:A:ASP:O	2	0.86
(1,4525)	1:45:A:PHE:O	1:85:A:GLY:H	16	0.86
(1,4468)	1:50:A:PHE:O	1:116:A:THR:H	1	0.86
(1,91)	1:119:A:VAL:H	1:121:A:GLU:H	2	0.86
(1,91)	1:119:A:VAL:H	1:121:A:GLU:H	14	0.86
(1,4576)	1:78:A:GLU:H	1:103:A:VAL:O	13	0.85
(1,4513)	1:78:A:GLU:H	1:103:A:VAL:O	13	0.85
(1,4496)	1:69:A:ARG:O	1:79:A:ARG:H	10	0.85
(1,4493)	1:68:A:SER:H	1:78:A:GLU:O	19	0.85
(1,4484)	1:57:A:CYS:O	1:143:A:ARG:H	8	0.85
(1,4355)	1:10:A:GLY:O	1:146:A:CYS:N	16	0.85
(1,12)	1:117:A:LEU:H	1:150:A:GLY:H	3	0.85
(1,4593)	1:113:A:ILE:H	1:149:A:ILE:O	3	0.84
(1,4585)	1:76:A:ASP:O	1:105:A:SER:H	2	0.84
(1,4512)	1:69:A:ARG:H	1:78:A:GLU:O	13	0.84
(1,4481)	1:56:A:GLY:H	1:146:A:CYS:O	19	0.84

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4476)	1:55:A:ALA:O	1:146:A:CYS:H	2	0.84
(1,4436)	1:41:A:GLY:O	1:91:A:LYS:H	18	0.84
(1,4428)	1:39:A:THR:O	1:93:A:GLY:H	12	0.84
(1,4401)	1:31:A:VAL:H	1:99:A:ILE:O	7	0.84
(1,176)	1:86:A:ASN:H	1:88:A:THR:H	15	0.84
(1,91)	1:12:A:GLY:H	1:121:A:GLU:H	8	0.84
(1,91)	1:119:A:VAL:H	1:121:A:GLU:H	9	0.84
(1,4592)	1:113:A:ILE:O	1:151:A:ILE:H	15	0.83
(1,4585)	1:21:A:GLU:O	1:105:A:SER:H	11	0.83
(1,4560)	1:31:A:VAL:H	1:99:A:ILE:O	19	0.83
(1,4505)	1:76:A:ASP:H	1:102:A:SER:O	3	0.83
(1,4501)	1:75:A:LYS:H	1:100:A:GLU:O	17	0.83
(1,4492)	1:68:A:SER:O	1:79:A:ARG:H	15	0.83
(1,4477)	1:55:A:ALA:H	1:146:A:CYS:O	7	0.83
(1,4465)	1:49:A:GLU:H	1:116:A:THR:O	15	0.83
(1,4448)	1:45:A:PHE:O	1:84:A:LEU:H	7	0.83
(1,169)	1:49:A:GLU:H	1:83:A:ASP:H	3	0.83
(1,26)	1:51:A:GLY:H	1:149:A:ILE:H	8	0.83
(1,4625)	1:38:A:LEU:O	1:121:A:GLU:H	3	0.82
(1,4581)	1:77:A:GLU:O	1:104:A:ILE:H	6	0.82
(1,4533)	1:41:A:GLY:O	1:91:A:LYS:H	6	0.82
(1,4529)	1:44:A:GLY:O	1:86:A:ASN:H	3	0.82
(1,4529)	1:86:A:ASN:H	1:96:A:ASP:O	4	0.82
(1,4489)	1:67:A:LEU:H	1:78:A:GLU:O	8	0.82
(1,4469)	1:50:A:PHE:H	1:116:A:THR:O	1	0.82
(1,4436)	1:41:A:GLY:O	1:91:A:LYS:H	6	0.82
(1,84)	1:57:A:CYS:H	1:144:A:LEU:H	16	0.82
(3,274)	1:120:A:HIS:C	2:201:A:CU:CU	19	0.81
(1,4589)	1:112:A:ILE:H	1:149:A:ILE:O	4	0.81
(1,4516)	1:67:A:LEU:H	1:79:A:ARG:O	19	0.81
(1,4511)	1:69:A:ARG:N	1:78:A:GLU:O	14	0.81
(1,4489)	1:67:A:LEU:H	1:79:A:ARG:O	2	0.81
(1,4448)	1:45:A:PHE:O	1:118:A:VAL:H	3	0.81
(1,4388)	1:2:A:THR:H	1:22:A:GLN:O	6	0.81
(1,4628)	1:57:A:CYS:H	1:143:A:ARG:O	11	0.8
(1,4628)	1:57:A:CYS:H	1:143:A:ARG:O	16	0.8
(1,4580)	1:22:A:GLN:H	1:104:A:ILE:O	6	0.8
(1,4548)	1:86:A:ASN:H	1:96:A:ASP:O	1	0.8
(1,4536)	1:39:A:THR:H	1:92:A:ASP:O	15	0.8
(1,4509)	1:67:A:LEU:O	1:77:A:GLU:H	12	0.8
(1,4488)	1:67:A:LEU:O	1:77:A:GLU:H	12	0.8
(1,4485)	1:57:A:CYS:H	1:145:A:ALA:O	5	0.8

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4485)	1:57:A:CYS:H	1:143:A:ARG:O	11	0.8
(1,4485)	1:57:A:CYS:H	1:143:A:ARG:O	16	0.8
(1,4457)	1:47:A:VAL:H	1:118:A:VAL:O	17	0.8
(1,11)	1:48:A:HIS:H	1:84:A:LEU:H	2	0.8
(1,4629)	1:119:A:VAL:O	1:143:A:ARG:H	8	0.79
(1,4584)	1:78:A:GLU:H	1:105:A:SER:O	4	0.79
(1,4581)	1:21:A:GLU:O	1:104:A:ILE:H	9	0.79
(1,4575)	1:29:A:VAL:N	1:103:A:VAL:O	18	0.79
(1,4560)	1:31:A:VAL:H	1:99:A:ILE:O	2	0.79
(1,4533)	1:40:A:GLU:O	1:91:A:LYS:H	18	0.79
(1,4532)	1:39:A:THR:H	1:91:A:LYS:O	18	0.79
(1,4513)	1:78:A:GLU:H	1:105:A:SER:O	4	0.79
(1,4505)	1:76:A:ASP:H	1:84:A:LEU:O	11	0.79
(1,4465)	1:49:A:GLU:H	1:116:A:THR:O	4	0.79
(1,4441)	1:42:A:LEU:H	1:121:A:GLU:O	1	0.79
(1,4436)	1:41:A:GLY:O	1:91:A:LYS:H	13	0.79
(1,4436)	1:41:A:GLY:O	1:91:A:LYS:H	14	0.79
(1,4428)	1:39:A:THR:O	1:93:A:GLY:H	14	0.79
(1,98)	1:120:A:HIS:H	1:123:A:ALA:H	16	0.79
(1,91)	1:119:A:VAL:H	1:121:A:GLU:H	16	0.79
(1,4621)	1:120:A:HIS:H	1:145:A:ALA:O	9	0.78
(1,4591)	1:50:A:PHE:N	1:113:A:ILE:O	8	0.78
(1,4591)	1:113:A:ILE:O	1:151:A:ILE:N	14	0.78
(1,4548)	1:86:A:ASN:H	1:96:A:ASP:O	19	0.78
(1,4512)	1:78:A:GLU:O	1:105:A:SER:H	4	0.78
(1,4504)	1:76:A:ASP:O	1:103:A:VAL:H	18	0.78
(1,4465)	1:49:A:GLU:H	1:116:A:THR:O	13	0.78
(1,91)	1:119:A:VAL:H	1:121:A:GLU:H	5	0.78
(1,63)	1:88:A:THR:H	1:90:A:ASP:H	4	0.78
(1,4629)	1:119:A:VAL:O	1:143:A:ARG:H	2	0.77
(1,4620)	1:42:A:LEU:H	1:120:A:HIS:O	4	0.77
(1,4593)	1:50:A:PHE:O	1:113:A:ILE:H	7	0.77
(1,4593)	1:49:A:GLU:O	1:113:A:ILE:H	17	0.77
(1,4556)	1:86:A:ASN:H	1:98:A:SER:O	5	0.77
(1,4464)	1:49:A:GLU:O	1:116:A:THR:H	1	0.77
(1,4463)	1:49:A:GLU:O	1:116:A:THR:N	4	0.77
(1,4428)	1:39:A:THR:O	1:93:A:GLY:H	11	0.77
(1,176)	1:86:A:ASN:H	1:88:A:THR:H	14	0.77
(1,91)	1:119:A:VAL:H	1:121:A:GLU:H	13	0.77
(1,4621)	1:46:A:HIS:O	1:120:A:HIS:H	15	0.76
(1,4592)	1:113:A:ILE:O	1:151:A:ILE:H	16	0.76
(1,4532)	1:39:A:THR:H	1:91:A:LYS:O	6	0.76

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4521)	1:84:A:LEU:H	1:105:A:SER:O	1	0.76
(1,4496)	1:69:A:ARG:O	1:77:A:GLU:H	1	0.76
(1,4436)	1:41:A:GLY:O	1:121:A:GLU:H	9	0.76
(1,4388)	1:2:A:THR:H	1:22:A:GLN:O	3	0.76
(1,4324)	1:2:A:THR:O	1:21:A:GLU:H	2	0.76
(1,120)	1:3:A:LYS:H	1:151:A:ILE:H	10	0.76
(1,98)	1:44:A:GLY:H	1:123:A:ALA:H	15	0.76
(1,4629)	1:57:A:CYS:O	1:143:A:ARG:H	14	0.75
(1,4629)	1:57:A:CYS:O	1:143:A:ARG:H	18	0.75
(1,4589)	1:112:A:ILE:H	1:151:A:ILE:O	6	0.75
(1,4556)	1:86:A:ASN:H	1:98:A:SER:O	10	0.75
(1,4529)	1:86:A:ASN:H	1:98:A:SER:O	10	0.75
(1,4519)	1:84:A:LEU:O	1:99:A:ILE:N	3	0.75
(1,4501)	1:75:A:LYS:H	1:101:A:ASP:O	8	0.75
(1,4496)	1:69:A:ARG:O	1:78:A:GLU:H	7	0.75
(1,4484)	1:57:A:CYS:O	1:143:A:ARG:H	14	0.75
(1,4484)	1:57:A:CYS:O	1:143:A:ARG:H	18	0.75
(1,4479)	1:56:A:GLY:O	1:116:A:THR:N	8	0.75
(1,4476)	1:55:A:ALA:O	1:146:A:CYS:H	16	0.75
(1,4388)	1:2:A:THR:H	1:22:A:GLN:O	5	0.75
(1,4325)	1:2:A:THR:H	1:20:A:PHE:O	6	0.75
(1,91)	1:15:A:GLN:H	1:121:A:GLU:H	7	0.75
(1,4589)	1:105:A:SER:O	1:112:A:ILE:H	17	0.74
(1,4584)	1:105:A:SER:O	1:112:A:ILE:H	17	0.74
(1,4581)	1:76:A:ASP:O	1:104:A:ILE:H	5	0.74
(1,4555)	1:31:A:VAL:N	1:98:A:SER:O	3	0.74
(1,4528)	1:86:A:ASN:O	1:97:A:VAL:H	9	0.74
(1,4503)	1:76:A:ASP:O	1:104:A:ILE:N	8	0.74
(1,4495)	1:69:A:ARG:O	1:78:A:GLU:N	7	0.74
(1,4490)	1:67:A:LEU:N	1:79:A:ARG:O	9	0.74
(1,4388)	1:2:A:THR:H	1:22:A:GLN:O	19	0.74
(1,176)	1:86:A:ASN:H	1:88:A:THR:H	19	0.74
(1,169)	1:49:A:GLU:H	1:83:A:ASP:H	14	0.74
(1,63)	1:41:A:GLY:H	1:90:A:ASP:H	9	0.74
(1,4621)	1:45:A:PHE:O	1:120:A:HIS:H	18	0.73
(1,4620)	1:42:A:LEU:H	1:120:A:HIS:O	5	0.73
(1,4576)	1:22:A:GLN:H	1:103:A:VAL:O	19	0.73
(1,4559)	1:31:A:VAL:N	1:99:A:ILE:O	19	0.73
(1,4541)	1:35:A:ILE:O	1:93:A:GLY:H	18	0.73
(1,4504)	1:76:A:ASP:O	1:103:A:VAL:H	16	0.73
(1,4501)	1:75:A:LYS:H	1:101:A:ASP:O	19	0.73
(1,4402)	1:31:A:VAL:N	1:99:A:ILE:O	7	0.73

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,91)	1:119:A:VAL:H	1:121:A:GLU:H	4	0.73
(1,91)	1:119:A:VAL:H	1:121:A:GLU:H	19	0.73
(3,274)	1:120:A:HIS:C	2:201:A:CU:CU	14	0.72
(1,4584)	1:77:A:GLU:H	1:105:A:SER:O	6	0.72
(1,4582)	1:77:A:GLU:O	1:104:A:ILE:N	6	0.72
(1,4560)	1:31:A:VAL:H	1:99:A:ILE:O	6	0.72
(1,4529)	1:86:A:ASN:H	1:99:A:ILE:O	14	0.72
(1,4473)	1:7:A:VAL:O	1:54:A:THR:H	5	0.72
(1,4435)	1:41:A:GLY:O	1:44:A:GLY:N	15	0.72
(1,192)	1:88:A:THR:H	1:122:A:LYS:H	15	0.72
(1,182)	1:7:A:VAL:H	1:150:A:GLY:H	13	0.72
(1,119)	1:46:A:HIS:H	1:84:A:LEU:H	2	0.72
(1,91)	1:119:A:VAL:H	1:121:A:GLU:H	1	0.72
(1,50)	1:120:A:HIS:H	1:145:A:ALA:H	18	0.72
(1,36)	1:42:A:LEU:H	1:45:A:PHE:H	7	0.72
(1,4633)	1:119:A:VAL:O	1:144:A:LEU:H	9	0.71
(1,4584)	1:22:A:GLN:H	1:105:A:SER:O	14	0.71
(1,4563)	1:29:A:VAL:N	1:100:A:GLU:O	9	0.71
(1,4555)	1:86:A:ASN:N	1:98:A:SER:O	5	0.71
(1,4537)	1:38:A:LEU:O	1:92:A:ASP:H	16	0.71
(1,4501)	1:75:A:LYS:H	1:102:A:SER:O	3	0.71
(1,4463)	1:49:A:GLU:O	1:116:A:THR:N	5	0.71
(1,63)	1:41:A:GLY:H	1:90:A:ASP:H	8	0.71
(1,4632)	1:10:A:GLY:H	1:144:A:LEU:O	16	0.7
(1,4591)	1:113:A:ILE:O	1:150:A:GLY:N	13	0.7
(1,4576)	1:29:A:VAL:H	1:103:A:VAL:O	2	0.7
(1,4569)	1:75:A:LYS:O	1:101:A:ASP:H	15	0.7
(1,4560)	1:85:A:GLY:H	1:99:A:ILE:O	8	0.7
(1,4537)	1:38:A:LEU:O	1:92:A:ASP:H	8	0.7
(1,4468)	1:50:A:PHE:O	1:116:A:THR:H	9	0.7
(1,4463)	1:49:A:GLU:O	1:114:A:GLY:N	7	0.7
(1,160)	1:70:A:LYS:H	1:80:A:HIS:H	2	0.7
(1,63)	1:88:A:THR:H	1:90:A:ASP:H	16	0.7
(1,12)	1:117:A:LEU:H	1:150:A:GLY:H	17	0.7
(1,12)	1:117:A:LEU:H	1:150:A:GLY:H	19	0.7
(1,4620)	1:14:A:VAL:H	1:120:A:HIS:O	7	0.69
(1,4580)	1:69:A:ARG:H	1:104:A:ILE:O	8	0.69
(1,4548)	1:33:A:GLY:H	1:96:A:ASP:O	17	0.69
(1,4537)	1:40:A:GLU:O	1:92:A:ASP:H	1	0.69
(1,4525)	1:44:A:GLY:O	1:85:A:GLY:H	3	0.69
(1,4525)	1:46:A:HIS:O	1:85:A:GLY:H	18	0.69
(1,4481)	1:56:A:GLY:H	1:146:A:CYS:O	8	0.69

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4452)	1:46:A:HIS:O	1:85:A:GLY:H	18	0.69
(1,4396)	1:21:A:GLU:H	1:30:A:LYS:O	9	0.69
(1,119)	1:45:A:PHE:H	1:84:A:LEU:H	4	0.69
(1,88)	1:15:A:GLN:H	1:35:A:ILE:H	16	0.69
(1,4633)	1:119:A:VAL:O	1:144:A:LEU:H	17	0.68
(1,4632)	1:121:A:GLU:H	1:144:A:LEU:O	10	0.68
(1,4625)	1:121:A:GLU:H	1:144:A:LEU:O	10	0.68
(1,4619)	1:42:A:LEU:N	1:120:A:HIS:O	4	0.68
(1,4578)	1:75:A:LYS:O	1:103:A:VAL:N	13	0.68
(1,4537)	1:38:A:LEU:O	1:92:A:ASP:H	19	0.68
(1,4521)	1:46:A:HIS:O	1:84:A:LEU:H	11	0.68
(1,4503)	1:76:A:ASP:O	1:103:A:VAL:N	18	0.68
(1,98)	1:120:A:HIS:H	1:123:A:ALA:H	13	0.68
(1,91)	1:119:A:VAL:H	1:121:A:GLU:H	12	0.68
(1,85)	1:8:A:LEU:H	1:15:A:GLN:H	2	0.68
(1,84)	1:57:A:CYS:H	1:144:A:LEU:H	5	0.68
(1,35)	1:43:A:HIS:H	1:45:A:PHE:H	15	0.68
(1,4660)	1:5:A:VAL:H	1:151:A:ILE:O	13	0.67
(1,4629)	1:57:A:CYS:O	1:143:A:ARG:H	11	0.67
(1,4581)	1:21:A:GLU:O	1:104:A:ILE:H	17	0.67
(1,4533)	1:41:A:GLY:O	1:91:A:LYS:H	7	0.67
(1,4512)	1:69:A:ARG:H	1:78:A:GLU:O	17	0.67
(1,4510)	1:77:A:GLU:N	1:104:A:ILE:O	15	0.67
(1,4501)	1:69:A:ARG:O	1:75:A:LYS:H	9	0.67
(1,4496)	1:69:A:ARG:O	1:75:A:LYS:H	9	0.67
(1,4484)	1:57:A:CYS:O	1:143:A:ARG:H	11	0.67
(1,4479)	1:56:A:GLY:O	1:147:A:GLY:N	18	0.67
(1,4469)	1:50:A:PHE:H	1:114:A:GLY:O	10	0.67
(1,4436)	1:41:A:GLY:O	1:91:A:LYS:H	7	0.67
(1,4432)	1:40:A:GLU:O	1:121:A:GLU:H	9	0.67
(1,91)	1:119:A:VAL:H	1:121:A:GLU:H	17	0.67
(1,12)	1:117:A:LEU:H	1:150:A:GLY:H	2	0.67
(1,12)	1:117:A:LEU:H	1:150:A:GLY:H	16	0.67
(1,4577)	1:21:A:GLU:O	1:103:A:VAL:H	12	0.66
(1,4503)	1:76:A:ASP:O	1:103:A:VAL:N	16	0.66
(1,4479)	1:56:A:GLY:O	1:143:A:ARG:N	14	0.66
(1,4468)	1:50:A:PHE:O	1:116:A:THR:H	12	0.66
(1,4401)	1:31:A:VAL:H	1:100:A:GLU:O	2	0.66
(1,11)	1:48:A:HIS:H	1:83:A:ASP:H	13	0.66
(1,4625)	1:41:A:GLY:O	1:121:A:GLU:H	16	0.65
(1,4579)	1:78:A:GLU:N	1:104:A:ILE:O	18	0.65
(1,4577)	1:21:A:GLU:O	1:103:A:VAL:H	3	0.65

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4560)	1:31:A:VAL:H	1:99:A:ILE:O	18	0.65
(1,4496)	1:69:A:ARG:O	1:78:A:GLU:H	14	0.65
(1,4447)	1:45:A:PHE:O	1:86:A:ASN:N	15	0.65
(1,4436)	1:41:A:GLY:O	1:121:A:GLU:H	16	0.65
(1,4388)	1:2:A:THR:H	1:22:A:GLN:O	14	0.65
(1,4325)	1:2:A:THR:H	1:152:A:ALA:O	11	0.65
(1,4325)	1:2:A:THR:H	1:22:A:GLN:O	14	0.65
(1,98)	1:44:A:GLY:H	1:123:A:ALA:H	7	0.65
(1,88)	1:15:A:GLN:H	1:35:A:ILE:H	4	0.65
(1,50)	1:120:A:HIS:H	1:145:A:ALA:H	12	0.65
(1,26)	1:51:A:GLY:H	1:149:A:ILE:H	16	0.65
(1,4579)	1:79:A:ARG:N	1:104:A:ILE:O	3	0.64
(1,4565)	1:84:A:LEU:O	1:100:A:GLU:H	17	0.64
(1,4559)	1:31:A:VAL:N	1:99:A:ILE:O	2	0.64
(1,4559)	1:31:A:VAL:N	1:99:A:ILE:O	6	0.64
(1,4537)	1:40:A:GLU:O	1:92:A:ASP:H	3	0.64
(1,4507)	1:68:A:SER:N	1:77:A:GLU:O	14	0.64
(1,4504)	1:76:A:ASP:O	1:101:A:ASP:H	13	0.64
(1,4496)	1:69:A:ARG:O	1:79:A:ARG:H	17	0.64
(1,4469)	1:50:A:PHE:H	1:114:A:GLY:O	8	0.64
(1,4457)	1:47:A:VAL:H	1:118:A:VAL:O	14	0.64
(1,4448)	1:45:A:PHE:O	1:85:A:GLY:H	17	0.64
(1,4428)	1:39:A:THR:O	1:91:A:LYS:H	13	0.64
(1,4405)	1:17:A:ILE:O	1:32:A:TRP:H	1	0.64
(1,4356)	1:10:A:GLY:O	1:14:A:VAL:H	3	0.64
(1,303)	1:69:A:ARG:H	1:82:A:GLY:H	12	0.64
(1,276)	1:47:A:VAL:H	1:85:A:GLY:H	4	0.64
(1,107)	1:45:A:PHE:H	1:119:A:VAL:H	11	0.64
(1,98)	1:120:A:HIS:H	1:123:A:ALA:H	5	0.64
(1,4569)	1:75:A:LYS:O	1:101:A:ASP:H	2	0.63
(1,4548)	1:33:A:GLY:H	1:96:A:ASP:O	5	0.63
(1,4525)	1:85:A:GLY:H	1:98:A:SER:O	15	0.63
(1,4509)	1:77:A:GLU:H	1:101:A:ASP:O	13	0.63
(1,4507)	1:77:A:GLU:O	1:84:A:LEU:N	13	0.63
(1,4500)	1:75:A:LYS:O	1:101:A:ASP:H	2	0.63
(1,4488)	1:67:A:LEU:O	1:79:A:ARG:H	2	0.63
(1,4479)	1:56:A:GLY:O	1:146:A:CYS:N	17	0.63
(1,4405)	1:18:A:ILE:O	1:32:A:TRP:H	8	0.63
(1,4397)	1:21:A:GLU:O	1:30:A:LYS:H	18	0.63
(1,91)	1:119:A:VAL:H	1:121:A:GLU:H	11	0.63
(1,88)	1:15:A:GLN:H	1:35:A:ILE:H	8	0.63
(1,50)	1:120:A:HIS:H	1:145:A:ALA:H	6	0.63

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,28)	1:149:A:ILE:H	1:151:A:ILE:H	12	0.63
(1,26)	1:48:A:HIS:H	1:149:A:ILE:H	15	0.63
(1,16)	1:48:A:HIS:H	1:50:A:PHE:H	16	0.63
(1,4628)	1:57:A:CYS:H	1:143:A:ARG:O	8	0.62
(1,4620)	1:42:A:LEU:H	1:120:A:HIS:O	14	0.62
(1,4619)	1:42:A:LEU:N	1:120:A:HIS:O	7	0.62
(1,4593)	1:113:A:ILE:H	1:151:A:ILE:O	16	0.62
(1,4584)	1:22:A:GLN:H	1:105:A:SER:O	11	0.62
(1,4559)	1:31:A:VAL:N	1:99:A:ILE:O	18	0.62
(1,4555)	1:31:A:VAL:N	1:98:A:SER:O	12	0.62
(1,4541)	1:38:A:LEU:O	1:93:A:GLY:H	7	0.62
(1,4532)	1:39:A:THR:H	1:91:A:LYS:O	12	0.62
(1,4513)	1:67:A:LEU:O	1:78:A:GLU:H	15	0.62
(1,4492)	1:68:A:SER:O	1:79:A:ARG:H	4	0.62
(1,4489)	1:67:A:LEU:H	1:79:A:ARG:O	4	0.62
(1,4485)	1:57:A:CYS:H	1:143:A:ARG:O	8	0.62
(1,4477)	1:55:A:ALA:H	1:146:A:CYS:O	18	0.62
(1,4476)	1:55:A:ALA:O	1:146:A:CYS:H	19	0.62
(1,4325)	1:2:A:THR:H	1:20:A:PHE:O	10	0.62
(1,91)	1:119:A:VAL:H	1:121:A:GLU:H	10	0.62
(1,4632)	1:121:A:GLU:H	1:144:A:LEU:O	19	0.61
(1,4625)	1:121:A:GLU:H	1:144:A:LEU:O	19	0.61
(1,4619)	1:46:A:HIS:N	1:120:A:HIS:O	15	0.61
(1,4536)	1:39:A:THR:H	1:92:A:ASP:O	14	0.61
(1,4532)	1:39:A:THR:H	1:91:A:LYS:O	7	0.61
(1,4505)	1:76:A:ASP:H	1:102:A:SER:O	7	0.61
(1,4463)	1:49:A:GLU:O	1:68:A:SER:N	8	0.61
(1,4433)	1:40:A:GLU:H	1:121:A:GLU:O	16	0.61
(1,4433)	1:40:A:GLU:H	1:121:A:GLU:O	19	0.61
(1,4429)	1:39:A:THR:H	1:91:A:LYS:O	7	0.61
(1,4428)	1:39:A:THR:O	1:91:A:LYS:H	4	0.61
(1,4405)	1:18:A:ILE:O	1:32:A:TRP:H	2	0.61
(1,303)	1:49:A:GLU:H	1:82:A:GLY:H	17	0.61
(1,176)	1:86:A:ASN:H	1:88:A:THR:H	9	0.61
(1,98)	1:120:A:HIS:H	1:123:A:ALA:H	12	0.61
(1,91)	1:119:A:VAL:H	1:121:A:GLU:H	6	0.61
(1,79)	1:119:A:VAL:H	1:144:A:LEU:H	6	0.61
(1,28)	1:149:A:ILE:H	1:151:A:ILE:H	17	0.61
(1,28)	1:149:A:ILE:H	1:151:A:ILE:H	18	0.61
(1,4629)	1:57:A:CYS:O	1:143:A:ARG:H	9	0.6
(1,4619)	1:42:A:LEU:N	1:120:A:HIS:O	14	0.6
(1,4583)	1:105:A:SER:O	1:112:A:ILE:N	10	0.6

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4576)	1:29:A:VAL:H	1:103:A:VAL:O	15	0.6
(1,4555)	1:86:A:ASN:N	1:98:A:SER:O	10	0.6
(1,4497)	1:69:A:ARG:H	1:79:A:ARG:O	13	0.6
(1,4484)	1:57:A:CYS:O	1:143:A:ARG:H	9	0.6
(1,4479)	1:56:A:GLY:O	1:147:A:GLY:N	19	0.6
(1,4470)	1:50:A:PHE:N	1:113:A:ILE:O	11	0.6
(1,4460)	1:48:A:HIS:O	1:116:A:THR:H	18	0.6
(1,4397)	1:21:A:GLU:O	1:30:A:LYS:H	8	0.6
(1,4384)	1:21:A:GLU:O	1:30:A:LYS:H	8	0.6
(1,176)	1:86:A:ASN:H	1:88:A:THR:H	16	0.6
(1,107)	1:46:A:HIS:H	1:119:A:VAL:H	5	0.6
(1,36)	1:42:A:LEU:H	1:45:A:PHE:H	18	0.6
(1,28)	1:149:A:ILE:H	1:151:A:ILE:H	4	0.6
(1,16)	1:48:A:HIS:H	1:50:A:PHE:H	18	0.6
(1,4629)	1:57:A:CYS:O	1:143:A:ARG:H	6	0.59
(1,4621)	1:120:A:HIS:H	1:145:A:ALA:O	2	0.59
(1,4575)	1:77:A:GLU:N	1:103:A:VAL:O	4	0.59
(1,4560)	1:86:A:ASN:H	1:99:A:ILE:O	15	0.59
(1,4547)	1:33:A:GLY:N	1:96:A:ASP:O	17	0.59
(1,4489)	1:49:A:GLU:O	1:67:A:LEU:H	15	0.59
(1,4484)	1:57:A:CYS:O	1:143:A:ARG:H	6	0.59
(1,4477)	1:55:A:ALA:H	1:146:A:CYS:O	15	0.59
(1,4464)	1:49:A:GLU:O	1:67:A:LEU:H	15	0.59
(1,4388)	1:2:A:THR:H	1:22:A:GLN:O	16	0.59
(1,4325)	1:2:A:THR:H	1:20:A:PHE:O	13	0.59
(1,176)	1:86:A:ASN:H	1:88:A:THR:H	8	0.59
(1,120)	1:149:A:ILE:H	1:151:A:ILE:H	9	0.59
(1,50)	1:120:A:HIS:H	1:145:A:ALA:H	19	0.59
(1,28)	1:149:A:ILE:H	1:151:A:ILE:H	9	0.59
(1,12)	1:53:A:ASN:H	1:117:A:LEU:H	1	0.59
(1,4625)	1:38:A:LEU:O	1:121:A:GLU:H	9	0.58
(1,4585)	1:76:A:ASP:O	1:105:A:SER:H	3	0.58
(1,4572)	1:77:A:GLU:H	1:102:A:SER:O	5	0.58
(1,4512)	1:78:A:GLU:O	1:105:A:SER:H	7	0.58
(1,4509)	1:77:A:GLU:H	1:102:A:SER:O	5	0.58
(1,4508)	1:69:A:ARG:H	1:77:A:GLU:O	12	0.58
(1,4504)	1:76:A:ASP:O	1:105:A:SER:H	3	0.58
(1,4496)	1:69:A:ARG:O	1:79:A:ARG:H	15	0.58
(1,4457)	1:47:A:VAL:H	1:118:A:VAL:O	16	0.58
(1,4436)	1:41:A:GLY:O	1:91:A:LYS:H	2	0.58
(1,4436)	1:41:A:GLY:O	1:91:A:LYS:H	11	0.58
(1,4388)	1:2:A:THR:H	1:22:A:GLN:O	7	0.58

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4325)	1:2:A:THR:H	1:22:A:GLN:O	7	0.58
(1,91)	1:119:A:VAL:H	1:121:A:GLU:H	18	0.58
(1,28)	1:118:A:VAL:H	1:149:A:ILE:H	19	0.58
(1,12)	1:117:A:LEU:H	1:150:A:GLY:H	5	0.58
(1,4621)	1:44:A:GLY:O	1:120:A:HIS:H	3	0.57
(1,4621)	1:44:A:GLY:O	1:120:A:HIS:H	16	0.57
(1,4592)	1:113:A:ILE:O	1:151:A:ILE:H	18	0.57
(1,4581)	1:75:A:LYS:O	1:104:A:ILE:H	3	0.57
(1,4552)	1:33:A:GLY:H	1:97:A:VAL:O	13	0.57
(1,4548)	1:33:A:GLY:H	1:96:A:ASP:O	9	0.57
(1,4547)	1:33:A:GLY:N	1:96:A:ASP:O	5	0.57
(1,4532)	1:40:A:GLU:H	1:91:A:LYS:O	11	0.57
(1,4532)	1:39:A:THR:H	1:91:A:LYS:O	15	0.57
(1,4532)	1:39:A:THR:H	1:91:A:LYS:O	17	0.57
(1,4509)	1:69:A:ARG:O	1:77:A:GLU:H	16	0.57
(1,4485)	1:57:A:CYS:H	1:146:A:CYS:O	15	0.57
(1,4477)	1:9:A:LYS:O	1:55:A:ALA:H	3	0.57
(1,4448)	1:45:A:PHE:O	1:118:A:VAL:H	5	0.57
(1,4444)	1:44:A:GLY:O	1:120:A:HIS:H	3	0.57
(1,4444)	1:44:A:GLY:O	1:120:A:HIS:H	16	0.57
(1,4433)	1:40:A:GLU:H	1:91:A:LYS:O	11	0.57
(1,4429)	1:39:A:THR:H	1:91:A:LYS:O	15	0.57
(1,4405)	1:17:A:ILE:O	1:32:A:TRP:H	7	0.57
(1,303)	1:49:A:GLU:H	1:82:A:GLY:H	4	0.57
(1,176)	1:86:A:ASN:H	1:88:A:THR:H	6	0.57
(1,26)	1:51:A:GLY:H	1:149:A:ILE:H	10	0.57
(1,4620)	1:45:A:PHE:H	1:120:A:HIS:O	11	0.56
(1,4592)	1:50:A:PHE:H	1:113:A:ILE:O	4	0.56
(1,4591)	1:113:A:ILE:O	1:150:A:GLY:N	11	0.56
(1,4559)	1:86:A:ASN:N	1:99:A:ILE:O	15	0.56
(1,4504)	1:76:A:ASP:O	1:102:A:SER:H	14	0.56
(1,4499)	1:75:A:LYS:O	1:101:A:ASP:N	11	0.56
(1,4481)	1:56:A:GLY:H	1:146:A:CYS:O	7	0.56
(1,4479)	1:56:A:GLY:O	1:147:A:GLY:N	3	0.56
(1,4437)	1:41:A:GLY:H	1:121:A:GLU:O	15	0.56
(1,4435)	1:41:A:GLY:O	1:91:A:LYS:N	12	0.56
(1,4428)	1:39:A:THR:O	1:91:A:LYS:H	9	0.56
(1,4392)	1:29:A:VAL:O	1:101:A:ASP:H	7	0.56
(1,4325)	1:2:A:THR:H	1:20:A:PHE:O	15	0.56
(1,169)	1:49:A:GLU:H	1:111:A:SER:H	19	0.56
(1,85)	1:8:A:LEU:H	1:15:A:GLN:H	9	0.56
(1,84)	1:120:A:HIS:H	1:144:A:LEU:H	15	0.56

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,84)	1:57:A:CYS:H	1:144:A:LEU:H	19	0.56
(1,50)	1:120:A:HIS:H	1:145:A:ALA:H	16	0.56
(1,35)	1:43:A:HIS:H	1:45:A:PHE:H	14	0.56
(1,28)	1:149:A:ILE:H	1:151:A:ILE:H	16	0.56
(1,4561)	1:31:A:VAL:O	1:99:A:ILE:H	8	0.55
(1,4551)	1:33:A:GLY:N	1:97:A:VAL:O	13	0.55
(1,4520)	1:75:A:LYS:H	1:84:A:LEU:O	5	0.55
(1,4501)	1:75:A:LYS:H	1:84:A:LEU:O	5	0.55
(1,4501)	1:75:A:LYS:H	1:101:A:ASP:O	18	0.55
(1,4492)	1:68:A:SER:O	1:79:A:ARG:H	14	0.55
(1,4428)	1:39:A:THR:O	1:121:A:GLU:H	5	0.55
(1,4397)	1:21:A:GLU:O	1:30:A:LYS:H	14	0.55
(1,4356)	1:10:A:GLY:O	1:14:A:VAL:H	15	0.55
(1,169)	1:49:A:GLU:H	1:83:A:ASP:H	5	0.55
(1,169)	1:49:A:GLU:H	1:111:A:SER:H	8	0.55
(1,85)	1:8:A:LEU:H	1:15:A:GLN:H	4	0.55
(1,4629)	1:57:A:CYS:O	1:143:A:ARG:H	4	0.54
(1,4625)	1:121:A:GLU:H	1:144:A:LEU:O	14	0.54
(1,4547)	1:86:A:ASN:N	1:96:A:ASP:O	11	0.54
(1,4537)	1:38:A:LEU:O	1:92:A:ASP:H	9	0.54
(1,4505)	1:76:A:ASP:H	1:101:A:ASP:O	2	0.54
(1,4501)	1:75:A:LYS:H	1:84:A:LEU:O	14	0.54
(1,4484)	1:57:A:CYS:O	1:143:A:ARG:H	4	0.54
(1,4464)	1:49:A:GLU:O	1:116:A:THR:H	2	0.54
(1,4405)	1:18:A:ILE:O	1:32:A:TRP:H	15	0.54
(1,4405)	1:17:A:ILE:O	1:32:A:TRP:H	19	0.54
(1,176)	1:86:A:ASN:H	1:88:A:THR:H	5	0.54
(1,120)	1:3:A:LYS:H	1:151:A:ILE:H	18	0.54
(1,96)	1:15:A:GLN:H	1:38:A:LEU:H	9	0.54
(1,88)	1:15:A:GLN:H	1:35:A:ILE:H	7	0.54
(1,28)	1:149:A:ILE:H	1:151:A:ILE:H	1	0.54
(1,4659)	1:5:A:VAL:N	1:151:A:ILE:O	13	0.53
(1,4625)	1:40:A:GLU:O	1:121:A:GLU:H	4	0.53
(1,4591)	1:113:A:ILE:O	1:150:A:GLY:N	1	0.53
(1,4580)	1:76:A:ASP:H	1:104:A:ILE:O	12	0.53
(1,4573)	1:75:A:LYS:O	1:102:A:SER:H	14	0.53
(1,4530)	1:44:A:GLY:O	1:86:A:ASN:N	9	0.53
(1,4513)	1:78:A:GLU:H	1:102:A:SER:O	17	0.53
(1,4505)	1:76:A:ASP:H	1:104:A:ILE:O	12	0.53
(1,4500)	1:75:A:LYS:O	1:102:A:SER:H	14	0.53
(1,4497)	1:69:A:ARG:H	1:78:A:GLU:O	19	0.53
(1,4479)	1:56:A:GLY:O	1:147:A:GLY:N	7	0.53

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4456)	1:47:A:VAL:O	1:118:A:VAL:H	1	0.53
(1,4435)	1:41:A:GLY:O	1:121:A:GLU:N	5	0.53
(1,4432)	1:40:A:GLU:O	1:121:A:GLU:H	4	0.53
(1,4404)	1:18:A:ILE:H	1:32:A:TRP:O	12	0.53
(1,4404)	1:18:A:ILE:H	1:32:A:TRP:O	16	0.53
(1,4356)	1:10:A:GLY:O	1:14:A:VAL:H	8	0.53
(1,4356)	1:10:A:GLY:O	1:14:A:VAL:H	14	0.53
(1,176)	1:86:A:ASN:H	1:88:A:THR:H	13	0.53
(1,91)	1:15:A:GLN:H	1:121:A:GLU:H	15	0.53
(1,50)	1:120:A:HIS:H	1:145:A:ALA:H	13	0.53
(1,4577)	1:75:A:LYS:O	1:103:A:VAL:H	8	0.52
(1,4526)	1:46:A:HIS:O	1:85:A:GLY:N	18	0.52
(1,4500)	1:75:A:LYS:O	1:103:A:VAL:H	8	0.52
(1,4490)	1:67:A:LEU:N	1:77:A:GLU:O	6	0.52
(1,4464)	1:49:A:GLU:O	1:116:A:THR:H	11	0.52
(1,4459)	1:48:A:HIS:O	1:118:A:VAL:N	1	0.52
(1,4457)	1:47:A:VAL:H	1:118:A:VAL:O	4	0.52
(1,4593)	1:113:A:ILE:H	1:151:A:ILE:O	2	0.51
(1,4582)	1:21:A:GLU:O	1:104:A:ILE:N	13	0.51
(1,4573)	1:75:A:LYS:O	1:102:A:SER:H	12	0.51
(1,4552)	1:33:A:GLY:H	1:97:A:VAL:O	15	0.51
(1,4552)	1:33:A:GLY:H	1:97:A:VAL:O	19	0.51
(1,4513)	1:68:A:SER:O	1:78:A:GLU:H	9	0.51
(1,4500)	1:75:A:LYS:O	1:102:A:SER:H	5	0.51
(1,4491)	1:68:A:SER:O	1:78:A:GLU:N	14	0.51
(1,4397)	1:30:A:LYS:H	1:99:A:ILE:O	11	0.51
(1,4355)	1:10:A:GLY:O	1:14:A:VAL:N	5	0.51
(1,176)	1:86:A:ASN:H	1:88:A:THR:H	17	0.51
(1,4633)	1:119:A:VAL:O	1:144:A:LEU:H	7	0.5
(1,4629)	1:57:A:CYS:O	1:143:A:ARG:H	1	0.5
(1,4629)	1:57:A:CYS:O	1:143:A:ARG:H	19	0.5
(1,4591)	1:50:A:PHE:N	1:113:A:ILE:O	6	0.5
(1,4589)	1:112:A:ILE:H	1:151:A:ILE:O	2	0.5
(1,4577)	1:84:A:LEU:O	1:103:A:VAL:H	10	0.5
(1,4560)	1:85:A:GLY:H	1:99:A:ILE:O	13	0.5
(1,4532)	1:39:A:THR:H	1:91:A:LYS:O	13	0.5
(1,4516)	1:68:A:SER:H	1:79:A:ARG:O	8	0.5
(1,4511)	1:69:A:ARG:N	1:78:A:GLU:O	13	0.5
(1,4501)	1:75:A:LYS:H	1:102:A:SER:O	4	0.5
(1,4484)	1:57:A:CYS:O	1:143:A:ARG:H	1	0.5
(1,4484)	1:57:A:CYS:O	1:143:A:ARG:H	19	0.5
(1,4443)	1:44:A:GLY:O	1:120:A:HIS:N	16	0.5

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4429)	1:39:A:THR:H	1:91:A:LYS:O	13	0.5
(1,4405)	1:18:A:ILE:O	1:32:A:TRP:H	6	0.5
(1,4396)	1:21:A:GLU:H	1:30:A:LYS:O	13	0.5
(1,4388)	1:2:A:THR:H	1:22:A:GLN:O	12	0.5
(1,4356)	1:10:A:GLY:O	1:14:A:VAL:H	10	0.5
(1,4325)	1:2:A:THR:H	1:22:A:GLN:O	12	0.5
(1,276)	1:85:A:GLY:H	1:99:A:ILE:H	16	0.5
(1,98)	1:120:A:HIS:H	1:123:A:ALA:H	18	0.5
(1,50)	1:120:A:HIS:H	1:145:A:ALA:H	4	0.5
(1,4621)	1:44:A:GLY:O	1:120:A:HIS:H	17	0.49
(1,4620)	1:42:A:LEU:H	1:120:A:HIS:O	3	0.49
(1,4576)	1:29:A:VAL:H	1:103:A:VAL:O	1	0.49
(1,4548)	1:33:A:GLY:H	1:96:A:ASP:O	14	0.49
(1,4547)	1:33:A:GLY:N	1:96:A:ASP:O	9	0.49
(1,4508)	1:77:A:GLU:O	1:102:A:SER:H	17	0.49
(1,4503)	1:76:A:ASP:O	1:105:A:SER:N	19	0.49
(1,4493)	1:68:A:SER:H	1:76:A:ASP:O	9	0.49
(1,4491)	1:68:A:SER:O	1:79:A:ARG:N	4	0.49
(1,4487)	1:67:A:LEU:O	1:79:A:ARG:N	5	0.49
(1,4477)	1:55:A:ALA:H	1:146:A:CYS:O	2	0.49
(1,4463)	1:49:A:GLU:O	1:67:A:LEU:N	15	0.49
(1,4460)	1:48:A:HIS:O	1:116:A:THR:H	10	0.49
(1,4428)	1:39:A:THR:O	1:91:A:LYS:H	8	0.49
(1,4428)	1:39:A:THR:O	1:91:A:LYS:H	16	0.49
(1,239)	1:131:A:ASN:H	1:138:A:GLY:H	17	0.49
(1,120)	1:3:A:LYS:H	1:151:A:ILE:H	12	0.49
(1,98)	1:120:A:HIS:H	1:123:A:ALA:H	9	0.49
(1,16)	1:48:A:HIS:H	1:50:A:PHE:H	3	0.49
(1,4632)	1:121:A:GLU:H	1:144:A:LEU:O	1	0.48
(1,4590)	1:112:A:ILE:N	1:149:A:ILE:O	15	0.48
(1,4517)	1:67:A:LEU:O	1:79:A:ARG:H	3	0.48
(1,4502)	1:44:A:GLY:O	1:75:A:LYS:N	6	0.48
(1,4492)	1:68:A:SER:O	1:79:A:ARG:H	10	0.48
(1,4469)	1:50:A:PHE:H	1:116:A:THR:O	16	0.48
(1,4435)	1:41:A:GLY:O	1:91:A:LYS:N	17	0.48
(1,4388)	1:2:A:THR:H	1:22:A:GLN:O	18	0.48
(1,239)	1:131:A:ASN:H	1:138:A:GLY:H	10	0.48
(1,120)	1:149:A:ILE:H	1:151:A:ILE:H	11	0.48
(1,120)	1:149:A:ILE:H	1:151:A:ILE:H	14	0.48
(1,98)	1:44:A:GLY:H	1:123:A:ALA:H	3	0.48
(1,88)	1:15:A:GLN:H	1:35:A:ILE:H	13	0.48
(1,85)	1:8:A:LEU:H	1:15:A:GLN:H	5	0.48

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,28)	1:149:A:ILE:H	1:151:A:ILE:H	11	0.48
(1,28)	1:149:A:ILE:H	1:151:A:ILE:H	14	0.48
(1,4628)	1:57:A:CYS:H	1:143:A:ARG:O	10	0.47
(1,4538)	1:38:A:LEU:O	1:92:A:ASP:N	6	0.47
(1,4537)	1:38:A:LEU:O	1:92:A:ASP:H	4	0.47
(1,4536)	1:39:A:THR:H	1:92:A:ASP:O	17	0.47
(1,4496)	1:69:A:ARG:O	1:79:A:ARG:H	11	0.47
(1,4496)	1:69:A:ARG:O	1:78:A:GLU:H	19	0.47
(1,4495)	1:69:A:ARG:O	1:75:A:LYS:N	9	0.47
(1,4492)	1:68:A:SER:O	1:78:A:GLU:H	3	0.47
(1,4489)	1:67:A:LEU:H	1:79:A:ARG:O	1	0.47
(1,4481)	1:56:A:GLY:H	1:146:A:CYS:O	15	0.47
(1,4455)	1:47:A:VAL:O	1:118:A:VAL:N	1	0.47
(1,4429)	1:39:A:THR:H	1:92:A:ASP:O	17	0.47
(1,4401)	1:31:A:VAL:H	1:100:A:GLU:O	18	0.47
(1,4388)	1:22:A:GLN:O	1:105:A:SER:H	15	0.47
(1,120)	1:149:A:ILE:H	1:151:A:ILE:H	6	0.47
(1,119)	1:45:A:PHE:H	1:84:A:LEU:H	1	0.47
(1,85)	1:8:A:LEU:H	1:15:A:GLN:H	3	0.47
(1,28)	1:149:A:ILE:H	1:151:A:ILE:H	6	0.47
(1,26)	1:48:A:HIS:H	1:149:A:ILE:H	2	0.47
(1,26)	1:48:A:HIS:H	1:149:A:ILE:H	6	0.47
(1,26)	1:48:A:HIS:H	1:149:A:ILE:H	11	0.47
(1,16)	1:48:A:HIS:H	1:50:A:PHE:H	10	0.47
(1,16)	1:48:A:HIS:H	1:149:A:ILE:H	11	0.47
(1,12)	1:117:A:LEU:H	1:150:A:GLY:H	12	0.47
(3,371)	1:132:A:GLU:N	2:201:A:CU:CU	15	0.46
(1,4580)	1:22:A:GLN:H	1:104:A:ILE:O	10	0.46
(1,4576)	1:29:A:VAL:H	1:103:A:VAL:O	8	0.46
(1,4568)	1:29:A:VAL:H	1:101:A:ASP:O	1	0.46
(1,4508)	1:69:A:ARG:H	1:77:A:GLU:O	5	0.46
(1,4503)	1:76:A:ASP:O	1:101:A:ASP:N	13	0.46
(1,4498)	1:69:A:ARG:N	1:79:A:ARG:O	13	0.46
(1,4498)	1:69:A:ARG:N	1:78:A:GLU:O	19	0.46
(1,4490)	1:67:A:LEU:N	1:79:A:ARG:O	16	0.46
(1,4437)	1:41:A:GLY:H	1:121:A:GLU:O	6	0.46
(1,4389)	1:22:A:GLN:H	1:104:A:ILE:O	10	0.46
(1,270)	1:56:A:GLY:H	1:148:A:VAL:H	4	0.46
(1,176)	1:86:A:ASN:H	1:88:A:THR:H	1	0.46
(1,50)	1:120:A:HIS:H	1:145:A:ALA:H	17	0.46
(1,36)	1:45:A:PHE:H	1:85:A:GLY:H	10	0.46
(3,184)	1:82:A:GLY:C	2:201:A:CU:CU	11	0.45

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4628)	1:57:A:CYS:H	1:143:A:ARG:O	19	0.45
(1,4608)	1:48:A:HIS:H	1:117:A:LEU:O	4	0.45
(1,4596)	1:114:A:GLY:O	1:149:A:ILE:H	16	0.45
(1,4548)	1:35:A:ILE:H	1:96:A:ASP:O	13	0.45
(1,4540)	1:36:A:LYS:H	1:93:A:GLY:O	15	0.45
(1,4490)	1:67:A:LEU:N	1:78:A:GLU:O	15	0.45
(1,4489)	1:67:A:LEU:H	1:79:A:ARG:O	17	0.45
(1,4485)	1:57:A:CYS:H	1:143:A:ARG:O	19	0.45
(1,4479)	1:56:A:GLY:O	1:147:A:GLY:N	10	0.45
(1,4456)	1:47:A:VAL:O	1:118:A:VAL:H	17	0.45
(1,4435)	1:41:A:GLY:O	1:121:A:GLU:N	8	0.45
(1,4428)	1:39:A:THR:O	1:92:A:ASP:H	15	0.45
(1,4406)	1:18:A:ILE:O	1:32:A:TRP:N	2	0.45
(1,4404)	1:18:A:ILE:H	1:32:A:TRP:O	9	0.45
(1,181)	1:18:A:ILE:H	1:150:A:GLY:H	13	0.45
(1,85)	1:8:A:LEU:H	1:15:A:GLN:H	13	0.45
(1,26)	1:51:A:GLY:H	1:149:A:ILE:H	3	0.45
(1,4633)	1:119:A:VAL:O	1:144:A:LEU:H	4	0.44
(1,4629)	1:57:A:CYS:O	1:143:A:ARG:H	17	0.44
(1,4620)	1:42:A:LEU:H	1:120:A:HIS:O	17	0.44
(1,4564)	1:76:A:ASP:H	1:100:A:GLU:O	17	0.44
(1,4548)	1:33:A:GLY:H	1:96:A:ASP:O	12	0.44
(1,4536)	1:40:A:GLU:H	1:92:A:ASP:O	13	0.44
(1,4510)	1:77:A:GLU:N	1:101:A:ASP:O	18	0.44
(1,4505)	1:76:A:ASP:H	1:100:A:GLU:O	17	0.44
(1,4492)	1:68:A:SER:O	1:78:A:GLU:H	19	0.44
(1,4484)	1:57:A:CYS:O	1:143:A:ARG:H	17	0.44
(1,4479)	1:56:A:GLY:O	1:147:A:GLY:N	16	0.44
(1,4468)	1:50:A:PHE:O	1:116:A:THR:H	13	0.44
(1,4465)	1:49:A:GLU:H	1:116:A:THR:O	5	0.44
(1,4465)	1:49:A:GLU:H	1:116:A:THR:O	10	0.44
(1,4465)	1:49:A:GLU:H	1:116:A:THR:O	12	0.44
(1,4444)	1:44:A:GLY:O	1:86:A:ASN:H	15	0.44
(1,4441)	1:42:A:LEU:H	1:121:A:GLU:O	8	0.44
(1,4433)	1:40:A:GLU:H	1:121:A:GLU:O	4	0.44
(1,4405)	1:32:A:TRP:H	1:98:A:SER:O	16	0.44
(1,4395)	1:30:A:LYS:O	1:99:A:ILE:N	9	0.44
(1,4357)	1:10:A:GLY:H	1:146:A:CYS:O	16	0.44
(1,4356)	1:10:A:GLY:O	1:14:A:VAL:H	17	0.44
(1,276)	1:85:A:GLY:H	1:99:A:ILE:H	15	0.44
(1,169)	1:49:A:GLU:H	1:83:A:ASP:H	10	0.44
(1,28)	1:149:A:ILE:H	1:151:A:ILE:H	7	0.44

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,371)	1:132:A:GLU:N	2:201:A:CU:CU	7	0.43
(1,4597)	1:114:A:GLY:H	1:149:A:ILE:O	5	0.43
(1,4593)	1:113:A:ILE:H	1:149:A:ILE:O	8	0.43
(1,4591)	1:113:A:ILE:O	1:151:A:ILE:N	16	0.43
(1,4585)	1:76:A:ASP:O	1:105:A:SER:H	10	0.43
(1,4584)	1:22:A:GLN:H	1:105:A:SER:O	15	0.43
(1,4559)	1:85:A:GLY:N	1:99:A:ILE:O	8	0.43
(1,4504)	1:76:A:ASP:O	1:105:A:SER:H	10	0.43
(1,4449)	1:45:A:PHE:H	1:85:A:GLY:O	7	0.43
(1,4433)	1:40:A:GLU:H	1:121:A:GLU:O	6	0.43
(1,4389)	1:22:A:GLN:H	1:105:A:SER:O	15	0.43
(1,4356)	1:10:A:GLY:O	1:14:A:VAL:H	2	0.43
(1,4324)	1:2:A:THR:O	1:21:A:GLU:H	4	0.43
(1,303)	1:49:A:GLU:H	1:82:A:GLY:H	9	0.43
(1,176)	1:86:A:ASN:H	1:88:A:THR:H	10	0.43
(1,131)	1:50:A:PHE:H	1:60:A:ALA:H	4	0.43
(1,36)	1:45:A:PHE:H	1:85:A:GLY:H	15	0.43
(1,4625)	1:40:A:GLU:O	1:121:A:GLU:H	17	0.42
(1,4538)	1:39:A:THR:O	1:92:A:ASP:N	17	0.42
(1,4512)	1:69:A:ARG:H	1:78:A:GLU:O	18	0.42
(1,4441)	1:42:A:LEU:H	1:120:A:HIS:O	18	0.42
(1,4432)	1:40:A:GLU:O	1:121:A:GLU:H	17	0.42
(1,181)	1:18:A:ILE:H	1:150:A:GLY:H	5	0.42
(1,176)	1:86:A:ASN:H	1:88:A:THR:H	11	0.42
(1,131)	1:50:A:PHE:H	1:60:A:ALA:H	7	0.42
(1,63)	1:41:A:GLY:H	1:90:A:ASP:H	3	0.42
(1,35)	1:43:A:HIS:H	1:45:A:PHE:H	11	0.42
(3,274)	1:120:A:HIS:C	2:201:A:CU:CU	4	0.41
(3,198)	1:143:A:ARG:C	2:201:A:CU:CU	8	0.41
(3,198)	1:143:A:ARG:C	2:201:A:CU:CU	9	0.41
(1,4621)	1:44:A:GLY:O	1:120:A:HIS:H	1	0.41
(1,4593)	1:113:A:ILE:H	1:149:A:ILE:O	18	0.41
(1,4547)	1:33:A:GLY:N	1:96:A:ASP:O	14	0.41
(1,4538)	1:40:A:GLU:O	1:92:A:ASP:N	12	0.41
(1,4510)	1:68:A:SER:O	1:77:A:GLU:N	3	0.41
(1,4508)	1:69:A:ARG:H	1:77:A:GLU:O	3	0.41
(1,4496)	1:69:A:ARG:O	1:79:A:ARG:H	13	0.41
(1,4489)	1:67:A:LEU:H	1:79:A:ARG:O	7	0.41
(1,4476)	1:55:A:ALA:O	1:146:A:CYS:H	8	0.41
(1,4473)	1:54:A:THR:H	1:147:A:GLY:O	13	0.41
(1,4464)	1:49:A:GLU:O	1:116:A:THR:H	6	0.41
(1,4444)	1:44:A:GLY:O	1:120:A:HIS:H	1	0.41

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4401)	1:31:A:VAL:H	1:100:A:GLU:O	6	0.41
(1,276)	1:47:A:VAL:H	1:85:A:GLY:H	12	0.41
(1,217)	1:87:A:VAL:H	1:122:A:LYS:H	9	0.41
(1,176)	1:86:A:ASN:H	1:88:A:THR:H	3	0.41
(1,132)	1:40:A:GLU:H	1:92:A:ASP:H	16	0.41
(1,50)	1:120:A:HIS:H	1:145:A:ALA:H	11	0.41
(1,28)	1:118:A:VAL:H	1:149:A:ILE:H	5	0.41
(1,12)	1:53:A:ASN:H	1:117:A:LEU:H	9	0.41
(1,4628)	1:57:A:CYS:H	1:143:A:ARG:O	7	0.4
(1,4626)	1:38:A:LEU:O	1:121:A:GLU:N	8	0.4
(1,4621)	1:44:A:GLY:O	1:120:A:HIS:H	4	0.4
(1,4583)	1:105:A:SER:O	1:112:A:ILE:N	13	0.4
(1,4576)	1:29:A:VAL:H	1:103:A:VAL:O	6	0.4
(1,4569)	1:29:A:VAL:O	1:101:A:ASP:H	19	0.4
(1,4512)	1:69:A:ARG:H	1:78:A:GLU:O	15	0.4
(1,4510)	1:67:A:LEU:O	1:77:A:GLU:N	12	0.4
(1,4508)	1:69:A:ARG:H	1:77:A:GLU:O	8	0.4
(1,4487)	1:67:A:LEU:O	1:77:A:GLU:N	12	0.4
(1,4486)	1:57:A:CYS:N	1:146:A:CYS:O	16	0.4
(1,4481)	1:56:A:GLY:H	1:146:A:CYS:O	3	0.4
(1,4479)	1:56:A:GLY:O	1:147:A:GLY:N	2	0.4
(1,4444)	1:44:A:GLY:O	1:120:A:HIS:H	4	0.4
(1,4435)	1:41:A:GLY:O	1:121:A:GLU:N	10	0.4
(1,4401)	1:31:A:VAL:H	1:98:A:SER:O	8	0.4
(1,267)	1:33:A:GLY:H	1:35:A:ILE:H	7	0.4
(1,217)	1:87:A:VAL:H	1:122:A:LYS:H	1	0.4
(1,180)	1:114:A:GLY:H	1:150:A:GLY:H	13	0.4
(1,127)	1:70:A:LYS:H	1:78:A:GLU:H	11	0.4
(3,198)	1:143:A:ARG:C	2:201:A:CU:CU	17	0.39
(1,4621)	1:45:A:PHE:O	1:120:A:HIS:H	11	0.39
(1,4586)	1:76:A:ASP:O	1:105:A:SER:N	2	0.39
(1,4585)	1:21:A:GLU:O	1:105:A:SER:H	7	0.39
(1,4575)	1:84:A:LEU:N	1:103:A:VAL:O	17	0.39
(1,4561)	1:31:A:VAL:O	1:99:A:ILE:H	1	0.39
(1,4541)	1:38:A:LEU:O	1:93:A:GLY:H	17	0.39
(1,4536)	1:39:A:THR:H	1:92:A:ASP:O	18	0.39
(1,4505)	1:76:A:ASP:H	1:101:A:ASP:O	15	0.39
(1,4501)	1:75:A:LYS:H	1:101:A:ASP:O	16	0.39
(1,4447)	1:45:A:PHE:O	1:118:A:VAL:N	3	0.39
(1,4429)	1:39:A:THR:H	1:92:A:ASP:O	18	0.39
(1,4424)	1:38:A:LEU:O	1:93:A:GLY:H	17	0.39
(1,4400)	1:31:A:VAL:O	1:99:A:ILE:H	1	0.39

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,292)	1:37:A:GLY:H	1:39:A:THR:H	8	0.39
(1,119)	1:46:A:HIS:H	1:84:A:LEU:H	17	0.39
(3,371)	1:132:A:GLU:N	2:201:A:CU:CU	11	0.38
(3,198)	1:143:A:ARG:C	2:201:A:CU:CU	14	0.38
(1,4629)	1:57:A:CYS:O	1:143:A:ARG:H	12	0.38
(1,4591)	1:113:A:ILE:O	1:151:A:ILE:N	15	0.38
(1,4591)	1:113:A:ILE:O	1:151:A:ILE:N	18	0.38
(1,4584)	1:22:A:GLN:H	1:105:A:SER:O	1	0.38
(1,4581)	1:77:A:GLU:O	1:104:A:ILE:H	18	0.38
(1,4551)	1:86:A:ASN:N	1:97:A:VAL:O	15	0.38
(1,4548)	1:33:A:GLY:H	1:96:A:ASP:O	10	0.38
(1,4547)	1:33:A:GLY:N	1:96:A:ASP:O	12	0.38
(1,4508)	1:77:A:GLU:O	1:104:A:ILE:H	18	0.38
(1,4485)	1:57:A:CYS:H	1:117:A:LEU:O	7	0.38
(1,4484)	1:57:A:CYS:O	1:143:A:ARG:H	12	0.38
(1,4479)	1:56:A:GLY:O	1:147:A:GLY:N	5	0.38
(1,4468)	1:50:A:PHE:O	1:116:A:THR:H	10	0.38
(1,4417)	1:15:A:GLN:O	1:35:A:ILE:H	8	0.38
(1,292)	1:37:A:GLY:H	1:39:A:THR:H	16	0.38
(1,276)	1:47:A:VAL:H	1:85:A:GLY:H	9	0.38
(3,252)	1:79:A:ARG:C	2:201:A:CU:CU	8	0.37
(3,198)	1:143:A:ARG:C	2:201:A:CU:CU	2	0.37
(3,198)	1:143:A:ARG:C	2:201:A:CU:CU	6	0.37
(1,4632)	1:10:A:GLY:H	1:144:A:LEU:O	15	0.37
(1,4591)	1:113:A:ILE:O	1:150:A:GLY:N	9	0.37
(1,4591)	1:113:A:ILE:O	1:150:A:GLY:N	19	0.37
(1,4561)	1:31:A:VAL:O	1:99:A:ILE:H	7	0.37
(1,4552)	1:33:A:GLY:H	1:97:A:VAL:O	6	0.37
(1,4492)	1:68:A:SER:O	1:79:A:ARG:H	18	0.37
(1,4491)	1:68:A:SER:O	1:78:A:GLU:N	19	0.37
(1,4485)	1:57:A:CYS:H	1:117:A:LEU:O	1	0.37
(1,4479)	1:56:A:GLY:O	1:143:A:ARG:N	1	0.37
(1,4479)	1:56:A:GLY:O	1:147:A:GLY:N	15	0.37
(1,4405)	1:32:A:TRP:H	1:97:A:VAL:O	9	0.37
(1,4401)	1:31:A:VAL:H	1:100:A:GLU:O	19	0.37
(1,4400)	1:31:A:VAL:O	1:99:A:ILE:H	7	0.37
(1,4397)	1:21:A:GLU:O	1:30:A:LYS:H	9	0.37
(1,4356)	1:10:A:GLY:O	1:14:A:VAL:H	9	0.37
(1,4355)	1:10:A:GLY:O	1:14:A:VAL:N	3	0.37
(1,4324)	1:2:A:THR:O	1:21:A:GLU:H	15	0.37
(1,176)	1:86:A:ASN:H	1:88:A:THR:H	4	0.37
(1,123)	1:22:A:GLN:H	1:106:A:LEU:H	3	0.37

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,88)	1:15:A:GLN:H	1:35:A:ILE:H	5	0.37
(1,85)	1:8:A:LEU:H	1:15:A:GLN:H	14	0.37
(1,63)	1:88:A:THR:H	1:90:A:ASP:H	19	0.37
(1,35)	1:43:A:HIS:H	1:45:A:PHE:H	12	0.37
(1,4632)	1:9:A:LYS:H	1:144:A:LEU:O	2	0.36
(1,4632)	1:10:A:GLY:H	1:144:A:LEU:O	17	0.36
(1,4580)	1:22:A:GLN:H	1:104:A:ILE:O	9	0.36
(1,4557)	1:86:A:ASN:O	1:98:A:SER:H	17	0.36
(1,4556)	1:31:A:VAL:H	1:98:A:SER:O	9	0.36
(1,4509)	1:77:A:GLU:H	1:102:A:SER:O	14	0.36
(1,4496)	1:69:A:ARG:O	1:79:A:ARG:H	18	0.36
(1,4486)	1:57:A:CYS:N	1:143:A:ARG:O	19	0.36
(1,4477)	1:55:A:ALA:H	1:146:A:CYS:O	1	0.36
(1,4463)	1:49:A:GLU:O	1:116:A:THR:N	2	0.36
(1,4389)	1:22:A:GLN:H	1:104:A:ILE:O	9	0.36
(1,4356)	1:10:A:GLY:O	1:14:A:VAL:H	19	0.36
(1,4355)	1:10:A:GLY:O	1:14:A:VAL:N	4	0.36
(1,146)	1:67:A:LEU:H	1:109:A:ASP:H	3	0.36
(1,120)	1:149:A:ILE:H	1:151:A:ILE:H	8	0.36
(1,35)	1:43:A:HIS:H	1:45:A:PHE:H	2	0.36
(1,28)	1:149:A:ILE:H	1:151:A:ILE:H	8	0.36
(1,16)	1:48:A:HIS:H	1:50:A:PHE:H	8	0.36
(3,198)	1:143:A:ARG:C	2:201:A:CU:CU	1	0.35
(3,179)	1:46:A:HIS:C	2:201:A:CU:CU	9	0.35
(1,4620)	1:42:A:LEU:H	1:120:A:HIS:O	6	0.35
(1,4565)	1:29:A:VAL:O	1:100:A:GLU:H	11	0.35
(1,4530)	1:44:A:GLY:O	1:86:A:ASN:N	4	0.35
(1,4522)	1:46:A:HIS:O	1:84:A:LEU:N	15	0.35
(1,4522)	1:45:A:PHE:O	1:84:A:LEU:N	17	0.35
(1,4520)	1:84:A:LEU:O	1:99:A:ILE:H	4	0.35
(1,4477)	1:55:A:ALA:H	1:146:A:CYS:O	11	0.35
(1,4474)	1:54:A:THR:N	1:114:A:GLY:O	8	0.35
(1,4447)	1:45:A:PHE:O	1:84:A:LEU:N	17	0.35
(1,4433)	1:40:A:GLU:H	1:121:A:GLU:O	2	0.35
(1,4417)	1:15:A:GLN:O	1:35:A:ILE:H	13	0.35
(1,4406)	1:18:A:ILE:O	1:32:A:TRP:N	6	0.35
(1,162)	1:67:A:LEU:H	1:70:A:LYS:H	14	0.35
(1,119)	1:46:A:HIS:H	1:84:A:LEU:H	18	0.35
(1,98)	1:120:A:HIS:H	1:123:A:ALA:H	1	0.35
(1,48)	1:6:A:ALA:H	1:8:A:LEU:H	9	0.35
(1,28)	1:149:A:ILE:H	1:151:A:ILE:H	2	0.35
(3,274)	1:120:A:HIS:C	2:201:A:CU:CU	2	0.34

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,274)	1:120:A:HIS:C	2:201:A:CU:CU	10	0.34
(3,198)	1:143:A:ARG:C	2:201:A:CU:CU	10	0.34
(3,179)	1:46:A:HIS:C	2:201:A:CU:CU	4	0.34
(1,4660)	1:5:A:VAL:H	1:151:A:ILE:O	3	0.34
(1,4561)	1:31:A:VAL:O	1:99:A:ILE:H	6	0.34
(1,4538)	1:39:A:THR:O	1:92:A:ASP:N	18	0.34
(1,4528)	1:44:A:GLY:H	1:86:A:ASN:O	11	0.34
(1,4521)	1:45:A:PHE:O	1:84:A:LEU:H	14	0.34
(1,4493)	1:68:A:SER:H	1:77:A:GLU:O	6	0.34
(1,4401)	1:31:A:VAL:H	1:97:A:VAL:O	4	0.34
(1,4400)	1:31:A:VAL:O	1:99:A:ILE:H	6	0.34
(1,4396)	1:21:A:GLU:H	1:30:A:LYS:O	12	0.34
(1,4388)	1:2:A:THR:H	1:22:A:GLN:O	2	0.34
(1,4356)	1:10:A:GLY:O	1:14:A:VAL:H	6	0.34
(1,4325)	1:2:A:THR:H	1:22:A:GLN:O	2	0.34
(1,294)	1:37:A:GLY:H	1:40:A:GLU:H	10	0.34
(1,276)	1:47:A:VAL:H	1:85:A:GLY:H	11	0.34
(1,217)	1:87:A:VAL:H	1:122:A:LYS:H	7	0.34
(1,107)	1:46:A:HIS:H	1:119:A:VAL:H	15	0.34
(1,50)	1:118:A:VAL:H	1:145:A:ALA:H	5	0.34
(1,20)	1:89:A:ALA:H	1:95:A:ALA:H	16	0.34
(3,371)	1:132:A:GLU:N	2:201:A:CU:CU	14	0.33
(3,198)	1:143:A:ARG:C	2:201:A:CU:CU	16	0.33
(3,137)	1:80:A:HIS:N	2:201:A:CU:CU	13	0.33
(2,156)	1:106:A:LEU:N	1:108:A:GLY:N	5	0.33
(1,4627)	1:57:A:CYS:N	1:143:A:ARG:O	7	0.33
(1,4569)	1:29:A:VAL:O	1:101:A:ASP:H	8	0.33
(1,4547)	1:33:A:GLY:N	1:96:A:ASP:O	10	0.33
(1,4501)	1:75:A:LYS:H	1:102:A:SER:O	10	0.33
(1,4496)	1:69:A:ARG:O	1:79:A:ARG:H	4	0.33
(1,4490)	1:67:A:LEU:N	1:79:A:ARG:O	11	0.33
(1,4464)	1:49:A:GLU:O	1:116:A:THR:H	10	0.33
(1,4463)	1:49:A:GLU:O	1:116:A:THR:N	6	0.33
(1,4448)	1:45:A:PHE:O	1:118:A:VAL:H	10	0.33
(1,4387)	1:2:A:THR:N	1:22:A:GLN:O	9	0.33
(1,4326)	1:2:A:THR:N	1:22:A:GLN:O	9	0.33
(1,239)	1:131:A:ASN:H	1:138:A:GLY:H	5	0.33
(1,234)	1:131:A:ASN:H	1:139:A:ASN:H	11	0.33
(1,120)	1:149:A:ILE:H	1:151:A:ILE:H	13	0.33
(1,88)	1:15:A:GLN:H	1:35:A:ILE:H	1	0.33
(1,85)	1:8:A:LEU:H	1:15:A:GLN:H	17	0.33
(1,28)	1:149:A:ILE:H	1:151:A:ILE:H	13	0.33

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,20)	1:89:A:ALA:H	1:95:A:ALA:H	2	0.33
(3,371)	1:132:A:GLU:N	2:201:A:CU:CU	10	0.32
(3,295)	1:9:A:LYS:N	2:201:A:CU:CU	12	0.32
(1,4620)	1:42:A:LEU:H	1:120:A:HIS:O	12	0.32
(1,4619)	1:44:A:GLY:N	1:120:A:HIS:O	17	0.32
(1,4593)	1:113:A:ILE:H	1:149:A:ILE:O	11	0.32
(1,4581)	1:76:A:ASP:O	1:104:A:ILE:H	2	0.32
(1,4565)	1:29:A:VAL:O	1:100:A:GLU:H	10	0.32
(1,4561)	1:31:A:VAL:O	1:99:A:ILE:H	15	0.32
(1,4560)	1:86:A:ASN:H	1:99:A:ILE:O	16	0.32
(1,4557)	1:31:A:VAL:O	1:98:A:SER:H	3	0.32
(1,4537)	1:38:A:LEU:O	1:92:A:ASP:H	11	0.32
(1,4530)	1:45:A:PHE:O	1:86:A:ASN:N	14	0.32
(1,4508)	1:77:A:GLU:O	1:103:A:VAL:H	1	0.32
(1,4500)	1:69:A:ARG:H	1:75:A:LYS:O	9	0.32
(1,4497)	1:69:A:ARG:H	1:78:A:GLU:O	8	0.32
(1,4495)	1:69:A:ARG:O	1:79:A:ARG:N	11	0.32
(1,4487)	1:49:A:GLU:N	1:67:A:LEU:O	8	0.32
(1,4479)	1:56:A:GLY:O	1:143:A:ARG:N	12	0.32
(1,4447)	1:45:A:PHE:O	1:84:A:LEU:N	7	0.32
(1,4437)	1:41:A:GLY:H	1:121:A:GLU:O	17	0.32
(1,4435)	1:41:A:GLY:O	1:91:A:LYS:N	18	0.32
(1,4428)	1:39:A:THR:O	1:91:A:LYS:H	19	0.32
(1,4404)	1:18:A:ILE:H	1:32:A:TRP:O	11	0.32
(1,4400)	1:31:A:VAL:O	1:99:A:ILE:H	15	0.32
(1,4357)	1:10:A:GLY:H	1:14:A:VAL:O	5	0.32
(1,4108)	1:142:A:SER:C	1:145:A:ALA:C	13	0.32
(1,276)	1:47:A:VAL:H	1:85:A:GLY:H	10	0.32
(1,276)	1:47:A:VAL:H	1:85:A:GLY:H	19	0.32
(1,234)	1:131:A:ASN:H	1:139:A:ASN:H	15	0.32
(1,217)	1:87:A:VAL:H	1:122:A:LYS:H	16	0.32
(1,195)	1:40:A:GLU:H	1:91:A:LYS:H	7	0.32
(1,88)	1:15:A:GLN:H	1:35:A:ILE:H	14	0.32
(1,84)	1:57:A:CYS:H	1:144:A:LEU:H	7	0.32
(1,53)	1:48:A:HIS:H	1:118:A:VAL:H	11	0.32
(1,35)	1:43:A:HIS:H	1:45:A:PHE:H	5	0.32
(1,11)	1:48:A:HIS:H	1:83:A:ASP:H	16	0.32
(3,319)	1:41:A:GLY:N	2:201:A:CU:CU	19	0.31
(3,198)	1:143:A:ARG:C	2:201:A:CU:CU	12	0.31
(1,4625)	1:38:A:LEU:O	1:121:A:GLU:H	5	0.31
(1,4589)	1:50:A:PHE:O	1:112:A:ILE:H	7	0.31
(1,4585)	1:21:A:GLU:O	1:105:A:SER:H	18	0.31

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4577)	1:75:A:LYS:O	1:103:A:VAL:H	16	0.31
(1,4576)	1:29:A:VAL:H	1:103:A:VAL:O	16	0.31
(1,4540)	1:36:A:LYS:H	1:93:A:GLY:O	3	0.31
(1,4537)	1:40:A:GLU:O	1:92:A:ASP:H	2	0.31
(1,4533)	1:40:A:GLU:O	1:91:A:LYS:H	11	0.31
(1,4512)	1:67:A:LEU:H	1:78:A:GLU:O	19	0.31
(1,4509)	1:77:A:GLU:H	1:101:A:ASP:O	6	0.31
(1,4493)	1:68:A:SER:H	1:79:A:ARG:O	13	0.31
(1,4489)	1:67:A:LEU:H	1:78:A:GLU:O	19	0.31
(1,4487)	1:67:A:LEU:O	1:79:A:ARG:N	2	0.31
(1,4475)	1:55:A:ALA:O	1:143:A:ARG:N	2	0.31
(1,4464)	1:49:A:GLU:O	1:116:A:THR:H	19	0.31
(1,4437)	1:41:A:GLY:H	1:121:A:GLU:O	9	0.31
(1,4432)	1:40:A:GLU:O	1:91:A:LYS:H	11	0.31
(1,4384)	1:21:A:GLU:O	1:105:A:SER:H	18	0.31
(1,4357)	1:10:A:GLY:H	1:14:A:VAL:O	14	0.31
(1,4325)	1:2:A:THR:H	1:20:A:PHE:O	17	0.31
(1,2019)	1:67:A:LEU:CA	1:70:A:LYS:CA	15	0.31
(1,294)	1:37:A:GLY:H	1:40:A:GLU:H	5	0.31
(1,267)	1:33:A:GLY:H	1:35:A:ILE:H	1	0.31
(1,181)	1:18:A:ILE:H	1:150:A:GLY:H	11	0.31
(1,176)	1:86:A:ASN:H	1:88:A:THR:H	2	0.31
(1,123)	1:22:A:GLN:H	1:106:A:LEU:H	17	0.31
(1,88)	1:15:A:GLN:H	1:35:A:ILE:H	9	0.31
(1,85)	1:8:A:LEU:H	1:15:A:GLN:H	8	0.31
(1,63)	1:41:A:GLY:H	1:90:A:ASP:H	13	0.31
(3,319)	1:41:A:GLY:N	2:201:A:CU:CU	12	0.3
(3,310)	1:31:A:VAL:N	2:201:A:CU:CU	8	0.3
(3,265)	1:100:A:GLU:C	2:201:A:CU:CU	15	0.3
(2,156)	1:106:A:LEU:N	1:108:A:GLY:N	17	0.3
(1,4634)	1:55:A:ALA:O	1:144:A:LEU:N	11	0.3
(1,4625)	1:40:A:GLU:O	1:121:A:GLU:H	15	0.3
(1,4591)	1:50:A:PHE:N	1:113:A:ILE:O	4	0.3
(1,4575)	1:22:A:GLN:N	1:103:A:VAL:O	14	0.3
(1,4572)	1:29:A:VAL:H	1:102:A:SER:O	3	0.3
(1,4551)	1:86:A:ASN:N	1:97:A:VAL:O	19	0.3
(1,4506)	1:76:A:ASP:N	1:84:A:LEU:O	11	0.3
(1,4470)	1:50:A:PHE:N	1:114:A:GLY:O	13	0.3
(1,4463)	1:49:A:GLU:O	1:116:A:THR:N	10	0.3
(1,4447)	1:45:A:PHE:O	1:84:A:LEU:N	19	0.3
(1,4443)	1:44:A:GLY:O	1:120:A:HIS:N	1	0.3
(1,4437)	1:41:A:GLY:H	1:121:A:GLU:O	18	0.3

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4432)	1:40:A:GLU:O	1:121:A:GLU:H	15	0.3
(1,4355)	1:10:A:GLY:O	1:145:A:ALA:N	7	0.3
(1,234)	1:131:A:ASN:H	1:139:A:ASN:H	7	0.3
(1,191)	1:52:A:ASP:H	1:114:A:GLY:H	7	0.3
(1,181)	1:18:A:ILE:H	1:150:A:GLY:H	2	0.3
(1,181)	1:18:A:ILE:H	1:150:A:GLY:H	10	0.3
(1,120)	1:3:A:LYS:H	1:151:A:ILE:H	7	0.3
(1,107)	1:45:A:PHE:H	1:119:A:VAL:H	13	0.3
(1,88)	1:15:A:GLN:H	1:35:A:ILE:H	3	0.3
(1,88)	1:15:A:GLN:H	1:35:A:ILE:H	18	0.3
(1,49)	1:47:A:VAL:H	1:118:A:VAL:H	16	0.3
(1,35)	1:43:A:HIS:H	1:45:A:PHE:H	6	0.3
(1,16)	1:48:A:HIS:H	1:50:A:PHE:H	19	0.3
(3,319)	1:41:A:GLY:N	2:201:A:CU:CU	10	0.29
(3,253)	1:83:A:ASP:C	2:201:A:CU:CU	11	0.29
(1,4633)	1:119:A:VAL:O	1:144:A:LEU:H	10	0.29
(1,4584)	1:22:A:GLN:H	1:105:A:SER:O	7	0.29
(1,4568)	1:75:A:LYS:H	1:101:A:ASP:O	15	0.29
(1,4551)	1:33:A:GLY:N	1:97:A:VAL:O	6	0.29
(1,4541)	1:38:A:LEU:O	1:93:A:GLY:H	8	0.29
(1,4508)	1:77:A:GLU:O	1:102:A:SER:H	7	0.29
(1,4506)	1:76:A:ASP:N	1:101:A:ASP:O	19	0.29
(1,4501)	1:75:A:LYS:H	1:101:A:ASP:O	15	0.29
(1,4485)	1:57:A:CYS:H	1:146:A:CYS:O	10	0.29
(1,4355)	1:10:A:GLY:O	1:14:A:VAL:N	10	0.29
(1,4324)	1:2:A:THR:O	1:21:A:GLU:H	3	0.29
(1,292)	1:37:A:GLY:H	1:39:A:THR:H	9	0.29
(1,162)	1:67:A:LEU:H	1:70:A:LYS:H	15	0.29
(1,132)	1:40:A:GLU:H	1:92:A:ASP:H	4	0.29
(1,107)	1:46:A:HIS:H	1:119:A:VAL:H	3	0.29
(1,88)	1:15:A:GLN:H	1:35:A:ILE:H	2	0.29
(1,36)	1:45:A:PHE:H	1:85:A:GLY:H	8	0.29
(3,282)	1:142:A:SER:C	2:201:A:CU:CU	9	0.28
(3,274)	1:120:A:HIS:C	2:201:A:CU:CU	17	0.28
(3,253)	1:83:A:ASP:C	2:201:A:CU:CU	13	0.28
(3,236)	1:49:A:GLU:C	2:201:A:CU:CU	7	0.28
(3,196)	1:139:A:ASN:C	2:201:A:CU:CU	16	0.28
(3,84)	1:150:A:GLY:C	2:201:A:CU:CU	10	0.28
(1,4578)	1:75:A:LYS:O	1:103:A:VAL:N	8	0.28
(1,4572)	1:77:A:GLU:H	1:102:A:SER:O	11	0.28
(1,4520)	1:45:A:PHE:H	1:84:A:LEU:O	16	0.28
(1,4516)	1:69:A:ARG:H	1:79:A:ARG:O	6	0.28

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4512)	1:69:A:ARG:H	1:78:A:GLU:O	6	0.28
(1,4509)	1:77:A:GLU:H	1:102:A:SER:O	11	0.28
(1,4507)	1:69:A:ARG:N	1:77:A:GLU:O	11	0.28
(1,4504)	1:69:A:ARG:H	1:76:A:ASP:O	9	0.28
(1,4499)	1:75:A:LYS:O	1:103:A:VAL:N	8	0.28
(1,4497)	1:69:A:ARG:H	1:79:A:ARG:O	6	0.28
(1,4497)	1:69:A:ARG:H	1:76:A:ASP:O	9	0.28
(1,4465)	1:49:A:GLU:H	1:116:A:THR:O	1	0.28
(1,4465)	1:49:A:GLU:H	1:116:A:THR:O	2	0.28
(1,4457)	1:47:A:VAL:H	1:118:A:VAL:O	19	0.28
(1,4435)	1:41:A:GLY:O	1:91:A:LYS:N	6	0.28
(1,4400)	1:31:A:VAL:O	1:100:A:GLU:H	8	0.28
(1,267)	1:33:A:GLY:H	1:35:A:ILE:H	2	0.28
(1,217)	1:87:A:VAL:H	1:122:A:LYS:H	17	0.28
(1,181)	1:18:A:ILE:H	1:150:A:GLY:H	1	0.28
(1,181)	1:18:A:ILE:H	1:150:A:GLY:H	15	0.28
(1,176)	1:86:A:ASN:H	1:88:A:THR:H	12	0.28
(1,169)	1:49:A:GLU:H	1:111:A:SER:H	17	0.28
(1,135)	1:79:A:ARG:H	1:82:A:GLY:H	18	0.28
(1,131)	1:50:A:PHE:H	1:60:A:ALA:H	10	0.28
(1,131)	1:50:A:PHE:H	1:60:A:ALA:H	14	0.28
(1,123)	1:22:A:GLN:H	1:106:A:LEU:H	8	0.28
(1,79)	1:119:A:VAL:H	1:144:A:LEU:H	18	0.28
(1,48)	1:6:A:ALA:H	1:8:A:LEU:H	3	0.28
(1,34)	1:34:A:SER:H	1:97:A:VAL:H	6	0.28
(1,28)	1:149:A:ILE:H	1:151:A:ILE:H	15	0.28
(1,26)	1:51:A:GLY:H	1:149:A:ILE:H	1	0.28
(1,26)	1:51:A:GLY:H	1:149:A:ILE:H	18	0.28
(1,20)	1:89:A:ALA:H	1:95:A:ALA:H	8	0.28
(3,213)	1:10:A:GLY:C	2:201:A:CU:CU	15	0.27
(3,198)	1:143:A:ARG:C	2:201:A:CU:CU	19	0.27
(3,197)	1:140:A:ALA:C	2:201:A:CU:CU	15	0.27
(3,144)	1:91:A:LYS:N	2:201:A:CU:CU	16	0.27
(2,156)	1:106:A:LEU:N	1:108:A:GLY:N	10	0.27
(1,4590)	1:112:A:ILE:N	1:149:A:ILE:O	13	0.27
(1,4586)	1:21:A:GLU:O	1:105:A:SER:N	5	0.27
(1,4565)	1:84:A:LEU:O	1:100:A:GLU:H	15	0.27
(1,4556)	1:86:A:ASN:H	1:98:A:SER:O	2	0.27
(1,4504)	1:76:A:ASP:O	1:102:A:SER:H	17	0.27
(1,4428)	1:39:A:THR:O	1:93:A:GLY:H	10	0.27
(1,4424)	1:14:A:VAL:H	1:38:A:LEU:O	7	0.27
(1,4392)	1:29:A:VAL:O	1:102:A:SER:H	15	0.27

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2954)	1:105:A:SER:CA	1:107:A:SER:N	18	0.27
(1,276)	1:47:A:VAL:H	1:85:A:GLY:H	6	0.27
(1,249)	1:50:A:PHE:H	1:109:A:ASP:H	3	0.27
(1,242)	1:91:A:LYS:H	1:93:A:GLY:H	13	0.27
(1,217)	1:87:A:VAL:H	1:122:A:LYS:H	8	0.27
(1,181)	1:18:A:ILE:H	1:150:A:GLY:H	18	0.27
(1,169)	1:49:A:GLU:H	1:111:A:SER:H	1	0.27
(1,162)	1:67:A:LEU:H	1:70:A:LYS:H	8	0.27
(1,135)	1:79:A:ARG:H	1:82:A:GLY:H	1	0.27
(1,131)	1:50:A:PHE:H	1:60:A:ALA:H	3	0.27
(1,120)	1:149:A:ILE:H	1:151:A:ILE:H	3	0.27
(1,88)	1:15:A:GLN:H	1:35:A:ILE:H	6	0.27
(1,60)	1:3:A:LYS:H	1:22:A:GLN:H	9	0.27
(1,36)	1:42:A:LEU:H	1:45:A:PHE:H	13	0.27
(1,28)	1:149:A:ILE:H	1:151:A:ILE:H	3	0.27
(1,26)	1:51:A:GLY:H	1:149:A:ILE:H	19	0.27
(3,371)	1:132:A:GLU:N	2:201:A:CU:CU	17	0.26
(3,319)	1:41:A:GLY:N	2:201:A:CU:CU	5	0.26
(3,236)	1:49:A:GLU:C	2:201:A:CU:CU	13	0.26
(3,198)	1:143:A:ARG:C	2:201:A:CU:CU	13	0.26
(3,198)	1:143:A:ARG:C	2:201:A:CU:CU	18	0.26
(3,84)	1:150:A:GLY:C	2:201:A:CU:CU	1	0.26
(1,4660)	1:5:A:VAL:H	1:151:A:ILE:O	5	0.26
(1,4660)	1:5:A:VAL:H	1:151:A:ILE:O	11	0.26
(1,4632)	1:10:A:GLY:H	1:144:A:LEU:O	8	0.26
(1,4619)	1:42:A:LEU:N	1:120:A:HIS:O	6	0.26
(1,4619)	1:42:A:LEU:N	1:120:A:HIS:O	12	0.26
(1,4580)	1:22:A:GLN:H	1:104:A:ILE:O	4	0.26
(1,4537)	1:38:A:LEU:O	1:92:A:ASP:H	5	0.26
(1,4536)	1:39:A:THR:H	1:92:A:ASP:O	6	0.26
(1,4533)	1:40:A:GLU:O	1:91:A:LYS:H	12	0.26
(1,4529)	1:86:A:ASN:H	1:97:A:VAL:O	16	0.26
(1,4470)	1:50:A:PHE:N	1:116:A:THR:O	19	0.26
(1,4432)	1:40:A:GLU:O	1:91:A:LYS:H	16	0.26
(1,4429)	1:39:A:THR:H	1:92:A:ASP:O	6	0.26
(1,4424)	1:38:A:LEU:O	1:121:A:GLU:H	13	0.26
(1,4424)	1:38:A:LEU:O	1:121:A:GLU:H	18	0.26
(1,4417)	1:15:A:GLN:O	1:35:A:ILE:H	1	0.26
(1,4389)	1:22:A:GLN:H	1:104:A:ILE:O	4	0.26
(1,4357)	1:10:A:GLY:H	1:144:A:LEU:O	8	0.26
(1,4324)	1:2:A:THR:O	1:21:A:GLU:H	9	0.26
(1,2954)	1:105:A:SER:CA	1:107:A:SER:N	7	0.26

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2954)	1:105:A:SER:CA	1:107:A:SER:N	8	0.26
(1,197)	1:52:A:ASP:H	1:148:A:VAL:H	11	0.26
(1,181)	1:18:A:ILE:H	1:150:A:GLY:H	9	0.26
(1,181)	1:18:A:ILE:H	1:150:A:GLY:H	12	0.26
(1,143)	1:36:A:LYS:H	1:94:A:VAL:H	9	0.26
(1,137)	1:51:A:GLY:H	1:111:A:SER:H	10	0.26
(1,127)	1:70:A:LYS:H	1:78:A:GLU:H	9	0.26
(1,48)	1:6:A:ALA:H	1:8:A:LEU:H	10	0.26
(3,295)	1:9:A:LYS:N	2:201:A:CU:CU	17	0.25
(3,274)	1:120:A:HIS:C	2:201:A:CU:CU	1	0.25
(3,213)	1:10:A:GLY:C	2:201:A:CU:CU	16	0.25
(3,160)	1:113:A:ILE:N	2:201:A:CU:CU	3	0.25
(3,159)	1:112:A:ILE:N	2:201:A:CU:CU	7	0.25
(3,1)	1:2:A:THR:C	2:201:A:CU:CU	9	0.25
(1,4634)	1:9:A:LYS:O	1:144:A:LEU:N	13	0.25
(1,4633)	1:119:A:VAL:O	1:144:A:LEU:H	2	0.25
(1,4593)	1:113:A:ILE:H	1:149:A:ILE:O	14	0.25
(1,4591)	1:113:A:ILE:O	1:150:A:GLY:N	12	0.25
(1,4565)	1:29:A:VAL:O	1:100:A:GLU:H	14	0.25
(1,4561)	1:86:A:ASN:O	1:99:A:ILE:H	16	0.25
(1,4540)	1:36:A:LYS:H	1:93:A:GLY:O	13	0.25
(1,4495)	1:69:A:ARG:O	1:78:A:GLU:N	14	0.25
(1,4480)	1:56:A:GLY:O	1:146:A:CYS:H	4	0.25
(1,4463)	1:49:A:GLU:O	1:116:A:THR:N	11	0.25
(1,4440)	1:42:A:LEU:O	1:44:A:GLY:H	4	0.25
(1,4417)	1:15:A:GLN:O	1:35:A:ILE:H	7	0.25
(1,4417)	1:15:A:GLN:O	1:35:A:ILE:H	10	0.25
(1,4404)	1:18:A:ILE:H	1:32:A:TRP:O	10	0.25
(1,4348)	1:8:A:LEU:O	1:14:A:VAL:H	13	0.25
(1,4324)	1:2:A:THR:O	1:21:A:GLU:H	11	0.25
(1,2874)	1:102:A:SER:CB	1:105:A:SER:C	11	0.25
(1,182)	1:7:A:VAL:H	1:150:A:GLY:H	5	0.25
(1,170)	1:69:A:ARG:H	1:80:A:HIS:H	12	0.25
(1,168)	1:88:A:THR:H	1:94:A:VAL:H	15	0.25
(1,157)	1:42:A:LEU:H	1:88:A:THR:H	11	0.25
(1,146)	1:67:A:LEU:H	1:109:A:ASP:H	5	0.25
(1,141)	1:88:A:THR:H	1:94:A:VAL:H	15	0.25
(1,107)	1:46:A:HIS:H	1:119:A:VAL:H	8	0.25
(1,88)	1:15:A:GLN:H	1:35:A:ILE:H	11	0.25
(1,88)	1:15:A:GLN:H	1:35:A:ILE:H	12	0.25
(1,88)	1:15:A:GLN:H	1:35:A:ILE:H	17	0.25
(1,53)	1:48:A:HIS:H	1:118:A:VAL:H	10	0.25

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,48)	1:6:A:ALA:H	1:8:A:LEU:H	18	0.25
(1,43)	1:8:A:LEU:H	1:18:A:ILE:H	15	0.25
(1,35)	1:43:A:HIS:H	1:45:A:PHE:H	17	0.25
(1,24)	1:21:A:GLU:H	1:30:A:LYS:H	9	0.25
(1,12)	1:117:A:LEU:H	1:150:A:GLY:H	10	0.25
(3,371)	1:132:A:GLU:N	2:201:A:CU:CU	2	0.24
(3,371)	1:132:A:GLU:N	2:201:A:CU:CU	8	0.24
(3,236)	1:49:A:GLU:C	2:201:A:CU:CU	2	0.24
(3,160)	1:113:A:ILE:N	2:201:A:CU:CU	2	0.24
(3,84)	1:150:A:GLY:C	2:201:A:CU:CU	12	0.24
(1,4660)	1:5:A:VAL:H	1:151:A:ILE:O	10	0.24
(1,4633)	1:119:A:VAL:O	1:144:A:LEU:H	19	0.24
(1,4625)	1:40:A:GLU:O	1:121:A:GLU:H	18	0.24
(1,4580)	1:22:A:GLN:H	1:104:A:ILE:O	5	0.24
(1,4555)	1:86:A:ASN:N	1:98:A:SER:O	18	0.24
(1,4540)	1:36:A:LYS:H	1:93:A:GLY:O	8	0.24
(1,4508)	1:77:A:GLU:O	1:104:A:ILE:H	16	0.24
(1,4445)	1:42:A:LEU:O	1:44:A:GLY:H	8	0.24
(1,4440)	1:42:A:LEU:O	1:44:A:GLY:H	8	0.24
(1,4432)	1:40:A:GLU:O	1:121:A:GLU:H	18	0.24
(1,4389)	1:22:A:GLN:H	1:104:A:ILE:O	5	0.24
(1,4356)	1:10:A:GLY:O	1:14:A:VAL:H	1	0.24
(1,4356)	1:10:A:GLY:O	1:14:A:VAL:H	18	0.24
(1,2954)	1:105:A:SER:CA	1:107:A:SER:N	6	0.24
(1,218)	1:72:A:GLY:H	1:79:A:ARG:H	9	0.24
(1,183)	1:51:A:GLY:H	1:110:A:HIS:H	3	0.24
(1,157)	1:42:A:LEU:H	1:88:A:THR:H	8	0.24
(1,157)	1:42:A:LEU:H	1:88:A:THR:H	10	0.24
(1,146)	1:67:A:LEU:H	1:109:A:ASP:H	11	0.24
(1,146)	1:67:A:LEU:H	1:109:A:ASP:H	16	0.24
(1,138)	1:72:A:GLY:H	1:79:A:ARG:H	9	0.24
(1,131)	1:50:A:PHE:H	1:60:A:ALA:H	18	0.24
(1,123)	1:22:A:GLN:H	1:106:A:LEU:H	16	0.24
(1,35)	1:43:A:HIS:H	1:45:A:PHE:H	4	0.24
(1,34)	1:34:A:SER:H	1:97:A:VAL:H	15	0.24
(1,19)	1:125:A:ASP:H	1:139:A:ASN:H	15	0.24
(3,310)	1:31:A:VAL:N	2:201:A:CU:CU	1	0.23
(3,305)	1:20:A:PHE:N	2:201:A:CU:CU	9	0.23
(3,295)	1:9:A:LYS:N	2:201:A:CU:CU	4	0.23
(3,295)	1:9:A:LYS:N	2:201:A:CU:CU	18	0.23
(3,241)	1:59:A:SER:C	2:201:A:CU:CU	7	0.23
(3,213)	1:10:A:GLY:C	2:201:A:CU:CU	7	0.23

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,213)	1:10:A:GLY:C	2:201:A:CU:CU	13	0.23
(3,194)	1:136:A:LYS:C	2:201:A:CU:CU	14	0.23
(3,144)	1:91:A:LYS:N	2:201:A:CU:CU	8	0.23
(3,144)	1:91:A:LYS:N	2:201:A:CU:CU	19	0.23
(1,4660)	1:5:A:VAL:H	1:151:A:ILE:O	7	0.23
(1,4585)	1:79:A:ARG:O	1:105:A:SER:H	9	0.23
(1,4582)	1:75:A:LYS:O	1:104:A:ILE:N	3	0.23
(1,4547)	1:86:A:ASN:N	1:96:A:ASP:O	1	0.23
(1,4520)	1:46:A:HIS:H	1:84:A:LEU:O	15	0.23
(1,4516)	1:79:A:ARG:O	1:105:A:SER:H	9	0.23
(1,4499)	1:75:A:LYS:O	1:102:A:SER:N	14	0.23
(1,4495)	1:69:A:ARG:O	1:78:A:GLU:N	19	0.23
(1,4489)	1:67:A:LEU:H	1:79:A:ARG:O	5	0.23
(1,4479)	1:56:A:GLY:O	1:143:A:ARG:N	6	0.23
(1,4463)	1:49:A:GLU:O	1:116:A:THR:N	1	0.23
(1,4452)	1:46:A:HIS:O	1:118:A:VAL:H	11	0.23
(1,4441)	1:42:A:LEU:H	1:121:A:GLU:O	2	0.23
(1,4417)	1:15:A:GLN:O	1:35:A:ILE:H	11	0.23
(1,4404)	1:18:A:ILE:H	1:32:A:TRP:O	13	0.23
(1,4404)	1:18:A:ILE:H	1:32:A:TRP:O	14	0.23
(1,4348)	1:8:A:LEU:O	1:16:A:GLY:H	5	0.23
(1,2954)	1:105:A:SER:CA	1:107:A:SER:N	3	0.23
(1,293)	1:119:A:VAL:H	1:141:A:GLY:H	15	0.23
(1,211)	1:41:A:GLY:H	1:89:A:ALA:H	8	0.23
(1,181)	1:18:A:ILE:H	1:150:A:GLY:H	8	0.23
(1,181)	1:18:A:ILE:H	1:150:A:GLY:H	19	0.23
(1,151)	1:89:A:ALA:H	1:94:A:VAL:H	9	0.23
(1,139)	1:69:A:ARG:H	1:78:A:GLU:H	17	0.23
(1,137)	1:51:A:GLY:H	1:111:A:SER:H	5	0.23
(1,131)	1:50:A:PHE:H	1:60:A:ALA:H	8	0.23
(1,129)	1:60:A:ALA:H	1:63:A:HIS:H	12	0.23
(1,123)	1:22:A:GLN:H	1:106:A:LEU:H	7	0.23
(1,85)	1:8:A:LEU:H	1:15:A:GLN:H	16	0.23
(1,34)	1:34:A:SER:H	1:97:A:VAL:H	19	0.23
(3,310)	1:31:A:VAL:N	2:201:A:CU:CU	2	0.22
(3,236)	1:49:A:GLU:C	2:201:A:CU:CU	8	0.22
(3,178)	1:45:A:PHE:C	2:201:A:CU:CU	18	0.22
(3,137)	1:80:A:HIS:N	2:201:A:CU:CU	6	0.22
(3,84)	1:150:A:GLY:C	2:201:A:CU:CU	13	0.22
(3,40)	1:66:A:PRO:C	2:201:A:CU:CU	7	0.22
(2,10700)	1:86:A:ASN:C	1:89:A:ALA:C	17	0.22
(1,4664)	1:5:A:VAL:H	1:152:A:ALA:O	7	0.22

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4632)	1:14:A:VAL:H	1:144:A:LEU:O	14	0.22
(1,4596)	1:114:A:GLY:O	1:149:A:ILE:H	10	0.22
(1,4548)	1:33:A:GLY:H	1:96:A:ASP:O	4	0.22
(1,4547)	1:86:A:ASN:N	1:96:A:ASP:O	6	0.22
(1,4541)	1:38:A:LEU:O	1:93:A:GLY:H	19	0.22
(1,4512)	1:69:A:ARG:H	1:78:A:GLU:O	11	0.22
(1,4480)	1:56:A:GLY:O	1:116:A:THR:H	11	0.22
(1,4404)	1:18:A:ILE:H	1:32:A:TRP:O	4	0.22
(1,4404)	1:18:A:ILE:H	1:32:A:TRP:O	5	0.22
(1,4404)	1:18:A:ILE:H	1:32:A:TRP:O	15	0.22
(1,4325)	1:2:A:THR:H	1:20:A:PHE:O	18	0.22
(1,271)	1:33:A:GLY:H	1:99:A:ILE:H	19	0.22
(1,261)	1:129:A:GLY:H	1:136:A:LYS:H	15	0.22
(1,239)	1:131:A:ASN:H	1:138:A:GLY:H	7	0.22
(1,220)	1:72:A:GLY:H	1:78:A:GLU:H	6	0.22
(1,197)	1:52:A:ASP:H	1:148:A:VAL:H	7	0.22
(1,181)	1:18:A:ILE:H	1:150:A:GLY:H	14	0.22
(1,162)	1:67:A:LEU:H	1:70:A:LYS:H	4	0.22
(1,120)	1:3:A:LYS:H	1:151:A:ILE:H	1	0.22
(1,118)	1:47:A:VAL:H	1:84:A:LEU:H	3	0.22
(1,107)	1:46:A:HIS:H	1:119:A:VAL:H	19	0.22
(1,100)	1:46:A:HIS:H	1:83:A:ASP:H	3	0.22
(1,100)	1:46:A:HIS:H	1:83:A:ASP:H	15	0.22
(1,85)	1:8:A:LEU:H	1:15:A:GLN:H	7	0.22
(1,43)	1:8:A:LEU:H	1:18:A:ILE:H	3	0.22
(1,12)	1:47:A:VAL:H	1:117:A:LEU:H	14	0.22
(3,371)	1:132:A:GLU:N	2:201:A:CU:CU	3	0.21
(3,236)	1:49:A:GLU:C	2:201:A:CU:CU	5	0.21
(3,213)	1:10:A:GLY:C	2:201:A:CU:CU	8	0.21
(3,213)	1:10:A:GLY:C	2:201:A:CU:CU	10	0.21
(3,213)	1:10:A:GLY:C	2:201:A:CU:CU	18	0.21
(3,196)	1:139:A:ASN:C	2:201:A:CU:CU	7	0.21
(3,84)	1:150:A:GLY:C	2:201:A:CU:CU	4	0.21
(3,84)	1:150:A:GLY:C	2:201:A:CU:CU	16	0.21
(1,4634)	1:119:A:VAL:O	1:144:A:LEU:N	15	0.21
(1,4593)	1:113:A:ILE:H	1:149:A:ILE:O	13	0.21
(1,4565)	1:29:A:VAL:O	1:100:A:GLU:H	3	0.21
(1,4564)	1:75:A:LYS:H	1:100:A:GLU:O	7	0.21
(1,4559)	1:86:A:ASN:N	1:99:A:ILE:O	16	0.21
(1,4557)	1:31:A:VAL:O	1:98:A:SER:H	9	0.21
(1,4535)	1:40:A:GLU:N	1:92:A:ASP:O	13	0.21
(1,4529)	1:44:A:GLY:O	1:86:A:ASN:H	5	0.21

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4514)	1:67:A:LEU:O	1:78:A:GLU:N	18	0.21
(1,4501)	1:75:A:LYS:H	1:100:A:GLU:O	7	0.21
(1,4417)	1:15:A:GLN:O	1:35:A:ILE:H	15	0.21
(1,4406)	1:17:A:ILE:O	1:32:A:TRP:N	18	0.21
(1,4404)	1:18:A:ILE:H	1:32:A:TRP:O	18	0.21
(1,4086)	1:142:A:SER:CA	1:145:A:ALA:CB	4	0.21
(1,1689)	1:57:A:CYS:CB	1:59:A:SER:CA	8	0.21
(1,1278)	1:40:A:GLU:CA	1:42:A:LEU:CB	19	0.21
(1,977)	1:27:A:GLY:CA	1:30:A:LYS:CB	9	0.21
(1,263)	1:27:A:GLY:H	1:102:A:SER:H	2	0.21
(1,211)	1:41:A:GLY:H	1:89:A:ALA:H	19	0.21
(1,201)	1:16:A:GLY:H	1:34:A:SER:H	15	0.21
(1,169)	1:49:A:GLU:H	1:83:A:ASP:H	7	0.21
(1,118)	1:47:A:VAL:H	1:84:A:LEU:H	10	0.21
(1,117)	1:76:A:ASP:H	1:78:A:GLU:H	7	0.21
(1,103)	1:77:A:GLU:H	1:79:A:ARG:H	13	0.21
(1,48)	1:6:A:ALA:H	1:8:A:LEU:H	16	0.21
(1,48)	1:6:A:ALA:H	1:8:A:LEU:H	19	0.21
(1,43)	1:8:A:LEU:H	1:18:A:ILE:H	16	0.21
(1,43)	1:8:A:LEU:H	1:18:A:ILE:H	17	0.21
(1,35)	1:43:A:HIS:H	1:45:A:PHE:H	10	0.21
(1,35)	1:43:A:HIS:H	1:45:A:PHE:H	19	0.21
(3,319)	1:41:A:GLY:N	2:201:A:CU:CU	3	0.2
(3,310)	1:31:A:VAL:N	2:201:A:CU:CU	10	0.2
(3,274)	1:120:A:HIS:C	2:201:A:CU:CU	18	0.2
(3,232)	1:40:A:GLU:C	2:201:A:CU:CU	15	0.2
(3,213)	1:10:A:GLY:C	2:201:A:CU:CU	2	0.2
(3,195)	1:138:A:GLY:C	2:201:A:CU:CU	18	0.2
(3,179)	1:46:A:HIS:C	2:201:A:CU:CU	12	0.2
(3,178)	1:45:A:PHE:C	2:201:A:CU:CU	10	0.2
(1,4613)	1:47:A:VAL:O	1:118:A:VAL:H	10	0.2
(1,4596)	1:114:A:GLY:O	1:149:A:ILE:H	9	0.2
(1,4586)	1:76:A:ASP:O	1:105:A:SER:N	10	0.2
(1,4584)	1:22:A:GLN:H	1:105:A:SER:O	3	0.2
(1,4576)	1:22:A:GLN:H	1:103:A:VAL:O	3	0.2
(1,4495)	1:69:A:ARG:O	1:79:A:ARG:N	4	0.2
(1,4465)	1:49:A:GLU:H	1:116:A:THR:O	9	0.2
(1,4456)	1:47:A:VAL:O	1:118:A:VAL:H	10	0.2
(1,4443)	1:44:A:GLY:O	1:85:A:GLY:N	4	0.2
(1,4389)	1:22:A:GLN:H	1:103:A:VAL:O	3	0.2
(1,4355)	1:10:A:GLY:O	1:145:A:ALA:N	11	0.2
(1,303)	1:49:A:GLU:H	1:82:A:GLY:H	19	0.2

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,292)	1:37:A:GLY:H	1:39:A:THR:H	4	0.2
(1,289)	1:116:A:THR:H	1:147:A:GLY:H	4	0.2
(1,234)	1:131:A:ASN:H	1:139:A:ASN:H	14	0.2
(1,232)	1:116:A:THR:H	1:148:A:VAL:H	6	0.2
(1,232)	1:116:A:THR:H	1:148:A:VAL:H	10	0.2
(1,220)	1:72:A:GLY:H	1:78:A:GLU:H	10	0.2
(1,208)	1:34:A:SER:H	1:95:A:ALA:H	12	0.2
(1,201)	1:16:A:GLY:H	1:34:A:SER:H	5	0.2
(1,201)	1:16:A:GLY:H	1:34:A:SER:H	6	0.2
(1,201)	1:16:A:GLY:H	1:34:A:SER:H	13	0.2
(1,171)	1:57:A:CYS:H	1:147:A:GLY:H	12	0.2
(1,159)	1:49:A:GLU:H	1:118:A:VAL:H	4	0.2
(1,159)	1:49:A:GLU:H	1:118:A:VAL:H	14	0.2
(1,146)	1:67:A:LEU:H	1:109:A:ASP:H	19	0.2
(1,131)	1:50:A:PHE:H	1:60:A:ALA:H	2	0.2
(1,118)	1:47:A:VAL:H	1:84:A:LEU:H	5	0.2
(1,95)	1:9:A:LYS:H	1:145:A:ALA:H	12	0.2
(1,63)	1:88:A:THR:H	1:90:A:ASP:H	11	0.2
(1,53)	1:48:A:HIS:H	1:118:A:VAL:H	18	0.2
(1,42)	1:19:A:ASN:H	1:31:A:VAL:H	6	0.2
(3,319)	1:41:A:GLY:N	2:201:A:CU:CU	16	0.19
(3,310)	1:31:A:VAL:N	2:201:A:CU:CU	6	0.19
(3,295)	1:9:A:LYS:N	2:201:A:CU:CU	14	0.19
(3,282)	1:142:A:SER:C	2:201:A:CU:CU	8	0.19
(3,282)	1:142:A:SER:C	2:201:A:CU:CU	16	0.19
(3,274)	1:120:A:HIS:C	2:201:A:CU:CU	8	0.19
(3,274)	1:120:A:HIS:C	2:201:A:CU:CU	11	0.19
(3,203)	1:63:A:HIS:H	2:201:A:CU:CU	5	0.19
(3,198)	1:143:A:ARG:C	2:201:A:CU:CU	5	0.19
(3,194)	1:136:A:LYS:C	2:201:A:CU:CU	10	0.19
(3,194)	1:136:A:LYS:C	2:201:A:CU:CU	16	0.19
(2,10545)	1:86:A:ASN:N	1:89:A:ALA:C	17	0.19
(2,156)	1:106:A:LEU:N	1:108:A:GLY:N	13	0.19
(2,156)	1:106:A:LEU:N	1:108:A:GLY:N	14	0.19
(1,4597)	1:114:A:GLY:H	1:151:A:ILE:O	6	0.19
(1,4591)	1:113:A:ILE:O	1:150:A:GLY:N	10	0.19
(1,4577)	1:76:A:ASP:O	1:103:A:VAL:H	4	0.19
(1,4552)	1:33:A:GLY:H	1:97:A:VAL:O	1	0.19
(1,4493)	1:68:A:SER:H	1:79:A:ARG:O	15	0.19
(1,4488)	1:67:A:LEU:O	1:79:A:ARG:H	11	0.19
(1,4481)	1:56:A:GLY:H	1:146:A:CYS:O	2	0.19
(1,4470)	1:50:A:PHE:N	1:116:A:THR:O	1	0.19

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4468)	1:50:A:PHE:O	1:116:A:THR:H	14	0.19
(1,4456)	1:47:A:VAL:O	1:118:A:VAL:H	8	0.19
(1,4444)	1:44:A:GLY:O	1:85:A:GLY:H	9	0.19
(1,4432)	1:40:A:GLU:O	1:91:A:LYS:H	19	0.19
(1,4035)	1:141:A:GLY:N	1:144:A:LEU:CB	13	0.19
(1,3292)	1:118:A:VAL:CB	1:120:A:HIS:CA	14	0.19
(1,2064)	1:68:A:SER:CB	1:70:A:LYS:C	17	0.19
(1,1286)	1:40:A:GLU:CB	1:42:A:LEU:CB	19	0.19
(1,300)	1:72:A:GLY:H	1:127:A:GLY:H	8	0.19
(1,289)	1:116:A:THR:H	1:147:A:GLY:H	13	0.19
(1,271)	1:33:A:GLY:H	1:99:A:ILE:H	1	0.19
(1,271)	1:33:A:GLY:H	1:99:A:ILE:H	6	0.19
(1,235)	1:116:A:THR:H	1:118:A:VAL:H	3	0.19
(1,222)	1:72:A:GLY:H	1:127:A:GLY:H	8	0.19
(1,217)	1:87:A:VAL:H	1:122:A:LYS:H	5	0.19
(1,211)	1:41:A:GLY:H	1:89:A:ALA:H	2	0.19
(1,208)	1:34:A:SER:H	1:95:A:ALA:H	7	0.19
(1,201)	1:16:A:GLY:H	1:34:A:SER:H	12	0.19
(1,187)	1:46:A:HIS:H	1:48:A:HIS:H	5	0.19
(1,181)	1:18:A:ILE:H	1:150:A:GLY:H	7	0.19
(1,181)	1:18:A:ILE:H	1:150:A:GLY:H	16	0.19
(1,169)	1:49:A:GLU:H	1:111:A:SER:H	4	0.19
(1,161)	1:72:A:GLY:H	1:80:A:HIS:H	1	0.19
(1,145)	1:115:A:ARG:H	1:117:A:LEU:H	7	0.19
(1,143)	1:36:A:LYS:H	1:94:A:VAL:H	4	0.19
(1,137)	1:51:A:GLY:H	1:111:A:SER:H	18	0.19
(1,131)	1:50:A:PHE:H	1:60:A:ALA:H	13	0.19
(1,53)	1:48:A:HIS:H	1:118:A:VAL:H	17	0.19
(1,49)	1:47:A:VAL:H	1:118:A:VAL:H	4	0.19
(1,43)	1:8:A:LEU:H	1:18:A:ILE:H	8	0.19
(1,32)	1:52:A:ASP:H	1:149:A:ILE:H	6	0.19
(1,28)	1:118:A:VAL:H	1:149:A:ILE:H	10	0.19
(1,17)	1:48:A:HIS:H	1:116:A:THR:H	11	0.19
(1,14)	1:46:A:HIS:H	1:48:A:HIS:H	5	0.19
(1,12)	1:117:A:LEU:H	1:150:A:GLY:H	18	0.19
(1,5)	1:20:A:PHE:H	1:152:A:ALA:H	15	0.19
(3,319)	1:41:A:GLY:N	2:201:A:CU:CU	13	0.18
(3,310)	1:31:A:VAL:N	2:201:A:CU:CU	16	0.18
(3,295)	1:9:A:LYS:N	2:201:A:CU:CU	10	0.18
(3,282)	1:142:A:SER:C	2:201:A:CU:CU	17	0.18
(3,274)	1:120:A:HIS:C	2:201:A:CU:CU	6	0.18
(3,236)	1:49:A:GLU:C	2:201:A:CU:CU	4	0.18

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,236)	1:49:A:GLU:C	2:201:A:CU:CU	15	0.18
(3,203)	1:63:A:HIS:H	2:201:A:CU:CU	16	0.18
(3,194)	1:136:A:LYS:C	2:201:A:CU:CU	7	0.18
(3,193)	1:128:A:LYS:C	2:201:A:CU:CU	4	0.18
(3,187)	1:118:A:VAL:C	2:201:A:CU:CU	2	0.18
(3,182)	1:62:A:PRO:C	2:201:A:CU:CU	19	0.18
(3,181)	1:60:A:ALA:C	2:201:A:CU:CU	6	0.18
(3,144)	1:91:A:LYS:N	2:201:A:CU:CU	15	0.18
(3,95)	1:12:A:GLY:N	2:201:A:CU:CU	7	0.18
(3,1)	1:2:A:THR:C	2:201:A:CU:CU	1	0.18
(3,1)	1:2:A:THR:C	2:201:A:CU:CU	15	0.18
(2,10616)	1:86:A:ASN:CB	1:89:A:ALA:C	8	0.18
(2,156)	1:106:A:LEU:N	1:108:A:GLY:N	7	0.18
(1,4637)	1:119:A:VAL:O	1:145:A:ALA:H	13	0.18
(1,4634)	1:9:A:LYS:O	1:144:A:LEU:N	18	0.18
(1,4616)	1:119:A:VAL:O	1:145:A:ALA:H	13	0.18
(1,4580)	1:22:A:GLN:H	1:104:A:ILE:O	17	0.18
(1,4576)	1:22:A:GLN:H	1:103:A:VAL:O	12	0.18
(1,4569)	1:75:A:LYS:O	1:101:A:ASP:H	18	0.18
(1,4551)	1:33:A:GLY:N	1:97:A:VAL:O	1	0.18
(1,4533)	1:40:A:GLU:O	1:91:A:LYS:H	13	0.18
(1,4532)	1:39:A:THR:H	1:91:A:LYS:O	2	0.18
(1,4515)	1:68:A:SER:N	1:79:A:ARG:O	19	0.18
(1,4497)	1:69:A:ARG:H	1:79:A:ARG:O	1	0.18
(1,4441)	1:42:A:LEU:H	1:121:A:GLU:O	5	0.18
(1,4429)	1:39:A:THR:H	1:91:A:LYS:O	2	0.18
(1,4389)	1:2:A:THR:O	1:22:A:GLN:H	1	0.18
(1,4389)	1:22:A:GLN:H	1:104:A:ILE:O	17	0.18
(1,4356)	1:10:A:GLY:O	1:14:A:VAL:H	12	0.18
(1,4355)	1:10:A:GLY:O	1:14:A:VAL:N	2	0.18
(1,4355)	1:10:A:GLY:O	1:14:A:VAL:N	15	0.18
(1,292)	1:37:A:GLY:H	1:39:A:THR:H	3	0.18
(1,271)	1:33:A:GLY:H	1:99:A:ILE:H	2	0.18
(1,267)	1:33:A:GLY:H	1:35:A:ILE:H	4	0.18
(1,249)	1:50:A:PHE:H	1:109:A:ASP:H	7	0.18
(1,247)	1:37:A:GLY:H	1:39:A:THR:H	3	0.18
(1,223)	1:51:A:GLY:H	1:114:A:GLY:H	10	0.18
(1,217)	1:87:A:VAL:H	1:122:A:LYS:H	10	0.18
(1,208)	1:34:A:SER:H	1:95:A:ALA:H	3	0.18
(1,201)	1:16:A:GLY:H	1:34:A:SER:H	16	0.18
(1,201)	1:16:A:GLY:H	1:34:A:SER:H	18	0.18
(1,183)	1:51:A:GLY:H	1:110:A:HIS:H	6	0.18

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,181)	1:18:A:ILE:H	1:150:A:GLY:H	3	0.18
(1,177)	1:124:A:ASP:H	1:126:A:LEU:H	19	0.18
(1,168)	1:88:A:THR:H	1:94:A:VAL:H	14	0.18
(1,161)	1:72:A:GLY:H	1:80:A:HIS:H	13	0.18
(1,157)	1:42:A:LEU:H	1:88:A:THR:H	5	0.18
(1,157)	1:42:A:LEU:H	1:88:A:THR:H	19	0.18
(1,143)	1:36:A:LYS:H	1:94:A:VAL:H	11	0.18
(1,143)	1:36:A:LYS:H	1:94:A:VAL:H	12	0.18
(1,141)	1:88:A:THR:H	1:94:A:VAL:H	14	0.18
(1,135)	1:79:A:ARG:H	1:82:A:GLY:H	10	0.18
(1,131)	1:50:A:PHE:H	1:60:A:ALA:H	11	0.18
(1,123)	1:22:A:GLN:H	1:106:A:LEU:H	18	0.18
(1,117)	1:76:A:ASP:H	1:78:A:GLU:H	19	0.18
(1,116)	1:42:A:LEU:H	1:123:A:ALA:H	9	0.18
(1,42)	1:19:A:ASN:H	1:31:A:VAL:H	4	0.18
(1,38)	1:6:A:ALA:H	1:152:A:ALA:H	2	0.18
(3,319)	1:41:A:GLY:N	2:201:A:CU:CU	4	0.17
(3,319)	1:41:A:GLY:N	2:201:A:CU:CU	11	0.17
(3,319)	1:41:A:GLY:N	2:201:A:CU:CU	14	0.17
(3,310)	1:31:A:VAL:N	2:201:A:CU:CU	3	0.17
(3,281)	1:135:A:THR:C	2:201:A:CU:CU	18	0.17
(3,253)	1:83:A:ASP:C	2:201:A:CU:CU	18	0.17
(3,244)	1:67:A:LEU:C	2:201:A:CU:CU	4	0.17
(3,213)	1:10:A:GLY:C	2:201:A:CU:CU	5	0.17
(3,213)	1:10:A:GLY:C	2:201:A:CU:CU	14	0.17
(3,194)	1:136:A:LYS:C	2:201:A:CU:CU	17	0.17
(3,187)	1:118:A:VAL:C	2:201:A:CU:CU	17	0.17
(3,132)	1:75:A:LYS:N	2:201:A:CU:CU	8	0.17
(3,84)	1:150:A:GLY:C	2:201:A:CU:CU	11	0.17
(3,1)	1:2:A:THR:C	2:201:A:CU:CU	5	0.17
(3,1)	1:2:A:THR:C	2:201:A:CU:CU	6	0.17
(2,158)	1:107:A:SER:N	1:109:A:ASP:N	3	0.17
(1,4660)	1:5:A:VAL:H	1:151:A:ILE:O	2	0.17
(1,4626)	1:40:A:GLU:O	1:121:A:GLU:N	2	0.17
(1,4626)	1:121:A:GLU:N	1:144:A:LEU:O	14	0.17
(1,4584)	1:22:A:GLN:H	1:105:A:SER:O	19	0.17
(1,4582)	1:76:A:ASP:O	1:104:A:ILE:N	2	0.17
(1,4575)	1:79:A:ARG:N	1:103:A:VAL:O	13	0.17
(1,4569)	1:29:A:VAL:O	1:101:A:ASP:H	17	0.17
(1,4548)	1:33:A:GLY:H	1:96:A:ASP:O	8	0.17
(1,4521)	1:46:A:HIS:O	1:84:A:LEU:H	3	0.17
(1,4467)	1:50:A:PHE:O	1:116:A:THR:N	13	0.17

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4437)	1:41:A:GLY:H	1:121:A:GLU:O	4	0.17
(1,4392)	1:29:A:VAL:O	1:101:A:ASP:H	17	0.17
(1,4389)	1:22:A:GLN:H	1:105:A:SER:O	19	0.17
(1,3480)	1:126:A:LEU:CA	1:128:A:LYS:C	6	0.17
(1,2187)	1:74:A:PRO:CD	1:76:A:ASP:CB	14	0.17
(1,2019)	1:67:A:LEU:CA	1:70:A:LYS:CA	14	0.17
(1,1914)	1:65:A:ASN:N	1:68:A:SER:C	5	0.17
(1,292)	1:37:A:GLY:H	1:39:A:THR:H	2	0.17
(1,276)	1:85:A:GLY:H	1:99:A:ILE:H	13	0.17
(1,263)	1:27:A:GLY:H	1:102:A:SER:H	16	0.17
(1,261)	1:129:A:GLY:H	1:136:A:LYS:H	11	0.17
(1,247)	1:37:A:GLY:H	1:39:A:THR:H	2	0.17
(1,239)	1:131:A:ASN:H	1:138:A:GLY:H	14	0.17
(1,234)	1:131:A:ASN:H	1:139:A:ASN:H	8	0.17
(1,234)	1:131:A:ASN:H	1:139:A:ASN:H	10	0.17
(1,225)	1:114:A:GLY:H	1:150:A:GLY:H	2	0.17
(1,198)	1:52:A:ASP:H	1:56:A:GLY:H	7	0.17
(1,198)	1:52:A:ASP:H	1:56:A:GLY:H	12	0.17
(1,183)	1:51:A:GLY:H	1:110:A:HIS:H	14	0.17
(1,160)	1:70:A:LYS:H	1:80:A:HIS:H	16	0.17
(1,159)	1:49:A:GLU:H	1:118:A:VAL:H	2	0.17
(1,159)	1:49:A:GLU:H	1:118:A:VAL:H	7	0.17
(1,159)	1:49:A:GLU:H	1:118:A:VAL:H	10	0.17
(1,157)	1:42:A:LEU:H	1:88:A:THR:H	12	0.17
(1,157)	1:42:A:LEU:H	1:88:A:THR:H	13	0.17
(1,143)	1:36:A:LYS:H	1:94:A:VAL:H	3	0.17
(1,130)	1:53:A:ASN:H	1:60:A:ALA:H	8	0.17
(1,123)	1:22:A:GLN:H	1:106:A:LEU:H	2	0.17
(1,123)	1:22:A:GLN:H	1:106:A:LEU:H	11	0.17
(1,115)	1:20:A:PHE:H	1:151:A:ILE:H	8	0.17
(1,115)	1:20:A:PHE:H	1:151:A:ILE:H	18	0.17
(1,107)	1:46:A:HIS:H	1:119:A:VAL:H	9	0.17
(1,50)	1:120:A:HIS:H	1:145:A:ALA:H	10	0.17
(1,43)	1:8:A:LEU:H	1:18:A:ILE:H	6	0.17
(1,42)	1:19:A:ASN:H	1:31:A:VAL:H	11	0.17
(1,42)	1:19:A:ASN:H	1:31:A:VAL:H	14	0.17
(1,42)	1:19:A:ASN:H	1:31:A:VAL:H	16	0.17
(1,26)	1:48:A:HIS:H	1:149:A:ILE:H	14	0.17
(3,371)	1:132:A:GLU:N	2:201:A:CU:CU	4	0.16
(3,310)	1:31:A:VAL:N	2:201:A:CU:CU	15	0.16
(3,295)	1:9:A:LYS:N	2:201:A:CU:CU	6	0.16
(3,221)	1:21:A:GLU:C	2:201:A:CU:CU	9	0.16

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(3,213)	1:10:A:GLY:C	2:201:A:CU:CU	17	0.16
(3,202)	1:48:A:HIS:H	2:201:A:CU:CU	8	0.16
(3,194)	1:136:A:LYS:C	2:201:A:CU:CU	8	0.16
(3,193)	1:128:A:LYS:C	2:201:A:CU:CU	9	0.16
(3,182)	1:62:A:PRO:C	2:201:A:CU:CU	1	0.16
(3,144)	1:91:A:LYS:N	2:201:A:CU:CU	12	0.16
(3,137)	1:80:A:HIS:N	2:201:A:CU:CU	14	0.16
(3,134)	1:77:A:GLU:N	2:201:A:CU:CU	15	0.16
(3,84)	1:150:A:GLY:C	2:201:A:CU:CU	14	0.16
(3,46)	1:74:A:PRO:C	2:201:A:CU:CU	8	0.16
(2,156)	1:106:A:LEU:N	1:108:A:GLY:N	11	0.16
(1,4552)	1:33:A:GLY:H	1:97:A:VAL:O	7	0.16
(1,4536)	1:39:A:THR:H	1:92:A:ASP:O	12	0.16
(1,4520)	1:46:A:HIS:H	1:84:A:LEU:O	7	0.16
(1,4516)	1:67:A:LEU:H	1:79:A:ARG:O	13	0.16
(1,4513)	1:67:A:LEU:O	1:78:A:GLU:H	14	0.16
(1,4502)	1:68:A:SER:O	1:75:A:LYS:N	9	0.16
(1,4489)	1:67:A:LEU:H	1:79:A:ARG:O	13	0.16
(1,4453)	1:46:A:HIS:H	1:84:A:LEU:O	7	0.16
(1,4440)	1:42:A:LEU:O	1:44:A:GLY:H	17	0.16
(1,4435)	1:41:A:GLY:O	1:91:A:LYS:N	3	0.16
(1,4433)	1:40:A:GLU:H	1:91:A:LYS:O	3	0.16
(1,4429)	1:39:A:THR:H	1:92:A:ASP:O	12	0.16
(1,4427)	1:39:A:THR:O	1:93:A:GLY:N	11	0.16
(1,4427)	1:39:A:THR:O	1:92:A:ASP:N	14	0.16
(1,4356)	1:10:A:GLY:O	1:14:A:VAL:H	13	0.16
(1,4104)	1:142:A:SER:C	1:144:A:LEU:C	2	0.16
(1,4104)	1:142:A:SER:C	1:144:A:LEU:C	8	0.16
(1,2974)	1:105:A:SER:C	1:109:A:ASP:N	8	0.16
(1,2019)	1:67:A:LEU:CA	1:70:A:LYS:CA	18	0.16
(1,292)	1:37:A:GLY:H	1:39:A:THR:H	19	0.16
(1,271)	1:33:A:GLY:H	1:99:A:ILE:H	18	0.16
(1,252)	1:50:A:PHE:H	1:52:A:ASP:H	10	0.16
(1,243)	1:39:A:THR:H	1:93:A:GLY:H	5	0.16
(1,239)	1:131:A:ASN:H	1:138:A:GLY:H	8	0.16
(1,234)	1:131:A:ASN:H	1:139:A:ASN:H	2	0.16
(1,217)	1:87:A:VAL:H	1:122:A:LYS:H	14	0.16
(1,208)	1:34:A:SER:H	1:95:A:ALA:H	1	0.16
(1,201)	1:16:A:GLY:H	1:34:A:SER:H	4	0.16
(1,198)	1:52:A:ASP:H	1:56:A:GLY:H	10	0.16
(1,198)	1:52:A:ASP:H	1:56:A:GLY:H	19	0.16
(1,172)	1:86:A:ASN:H	1:98:A:SER:H	9	0.16

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,164)	1:115:A:ARG:H	1:151:A:ILE:H	7	0.16
(1,145)	1:115:A:ARG:H	1:117:A:LEU:H	6	0.16
(1,145)	1:115:A:ARG:H	1:117:A:LEU:H	17	0.16
(1,144)	1:115:A:ARG:H	1:151:A:ILE:H	7	0.16
(1,143)	1:36:A:LYS:H	1:94:A:VAL:H	5	0.16
(1,129)	1:60:A:ALA:H	1:63:A:HIS:H	14	0.16
(1,115)	1:20:A:PHE:H	1:151:A:ILE:H	19	0.16
(1,49)	1:47:A:VAL:H	1:118:A:VAL:H	12	0.16
(1,43)	1:8:A:LEU:H	1:18:A:ILE:H	1	0.16
(1,43)	1:8:A:LEU:H	1:18:A:ILE:H	2	0.16
(1,43)	1:8:A:LEU:H	1:18:A:ILE:H	4	0.16
(1,42)	1:19:A:ASN:H	1:31:A:VAL:H	8	0.16
(1,38)	1:6:A:ALA:H	1:152:A:ALA:H	3	0.16
(1,35)	1:43:A:HIS:H	1:45:A:PHE:H	1	0.16
(1,26)	1:48:A:HIS:H	1:149:A:ILE:H	13	0.16
(1,16)	1:48:A:HIS:H	1:149:A:ILE:H	13	0.16
(1,16)	1:48:A:HIS:H	1:50:A:PHE:H	14	0.16
(3,371)	1:132:A:GLU:N	2:201:A:CU:CU	9	0.15
(3,371)	1:132:A:GLU:N	2:201:A:CU:CU	13	0.15
(3,282)	1:142:A:SER:C	2:201:A:CU:CU	4	0.15
(3,282)	1:142:A:SER:C	2:201:A:CU:CU	18	0.15
(3,274)	1:120:A:HIS:C	2:201:A:CU:CU	9	0.15
(3,253)	1:83:A:ASP:C	2:201:A:CU:CU	5	0.15
(3,236)	1:49:A:GLU:C	2:201:A:CU:CU	12	0.15
(3,236)	1:49:A:GLU:C	2:201:A:CU:CU	17	0.15
(3,202)	1:48:A:HIS:H	2:201:A:CU:CU	13	0.15
(3,159)	1:112:A:ILE:N	2:201:A:CU:CU	5	0.15
(3,150)	1:97:A:VAL:N	2:201:A:CU:CU	16	0.15
(3,135)	1:78:A:GLU:N	2:201:A:CU:CU	1	0.15
(3,1)	1:2:A:THR:C	2:201:A:CU:CU	10	0.15
(2,156)	1:106:A:LEU:N	1:108:A:GLY:N	2	0.15
(2,156)	1:106:A:LEU:N	1:108:A:GLY:N	9	0.15
(1,4660)	1:5:A:VAL:H	1:151:A:ILE:O	19	0.15
(1,4625)	1:40:A:GLU:O	1:121:A:GLU:H	6	0.15
(1,4621)	1:45:A:PHE:O	1:120:A:HIS:H	13	0.15
(1,4596)	1:114:A:GLY:O	1:149:A:ILE:H	15	0.15
(1,4584)	1:22:A:GLN:H	1:105:A:SER:O	12	0.15
(1,4577)	1:77:A:GLU:O	1:103:A:VAL:H	9	0.15
(1,4574)	1:77:A:GLU:O	1:102:A:SER:N	9	0.15
(1,4552)	1:33:A:GLY:H	1:97:A:VAL:O	2	0.15
(1,4540)	1:36:A:LYS:H	1:93:A:GLY:O	17	0.15
(1,4533)	1:40:A:GLU:O	1:91:A:LYS:H	2	0.15

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4529)	1:86:A:ASN:H	1:98:A:SER:O	13	0.15
(1,4526)	1:44:A:GLY:O	1:85:A:GLY:N	3	0.15
(1,4508)	1:77:A:GLU:O	1:103:A:VAL:H	9	0.15
(1,4499)	1:75:A:LYS:O	1:102:A:SER:N	5	0.15
(1,4481)	1:56:A:GLY:H	1:146:A:CYS:O	18	0.15
(1,4475)	1:10:A:GLY:N	1:55:A:ALA:O	16	0.15
(1,4465)	1:49:A:GLU:H	1:116:A:THR:O	6	0.15
(1,4444)	1:44:A:GLY:O	1:86:A:ASN:H	2	0.15
(1,4441)	1:42:A:LEU:H	1:121:A:GLU:O	19	0.15
(1,4432)	1:40:A:GLU:O	1:121:A:GLU:H	6	0.15
(1,4397)	1:21:A:GLU:O	1:30:A:LYS:H	17	0.15
(1,4389)	1:22:A:GLN:H	1:105:A:SER:O	12	0.15
(1,4384)	1:21:A:GLU:O	1:30:A:LYS:H	17	0.15
(1,4357)	1:10:A:GLY:H	1:14:A:VAL:O	15	0.15
(1,3027)	1:108:A:GLY:CA	1:110:A:HIS:N	7	0.15
(1,3001)	1:107:A:SER:N	1:109:A:ASP:CA	3	0.15
(1,2975)	1:106:A:LEU:N	1:108:A:GLY:CA	4	0.15
(1,2973)	1:105:A:SER:C	1:108:A:GLY:C	18	0.15
(1,2576)	1:90:A:ASP:CB	1:92:A:ASP:CG	18	0.15
(1,2010)	1:67:A:LEU:N	1:70:A:LYS:CA	14	0.15
(1,1689)	1:57:A:CYS:CB	1:59:A:SER:CA	11	0.15
(1,271)	1:33:A:GLY:H	1:99:A:ILE:H	13	0.15
(1,261)	1:129:A:GLY:H	1:136:A:LYS:H	6	0.15
(1,249)	1:50:A:PHE:H	1:109:A:ASP:H	17	0.15
(1,223)	1:51:A:GLY:H	1:114:A:GLY:H	12	0.15
(1,211)	1:41:A:GLY:H	1:89:A:ALA:H	13	0.15
(1,201)	1:16:A:GLY:H	1:34:A:SER:H	8	0.15
(1,201)	1:16:A:GLY:H	1:34:A:SER:H	14	0.15
(1,187)	1:46:A:HIS:H	1:48:A:HIS:H	13	0.15
(1,174)	1:53:A:ASN:H	1:57:A:CYS:H	16	0.15
(1,162)	1:67:A:LEU:H	1:70:A:LYS:H	18	0.15
(1,133)	1:70:A:LYS:H	1:78:A:GLU:H	8	0.15
(1,127)	1:70:A:LYS:H	1:78:A:GLU:H	8	0.15
(1,123)	1:22:A:GLN:H	1:106:A:LEU:H	19	0.15
(1,118)	1:47:A:VAL:H	1:84:A:LEU:H	11	0.15
(1,115)	1:20:A:PHE:H	1:151:A:ILE:H	12	0.15
(1,95)	1:9:A:LYS:H	1:145:A:ALA:H	2	0.15
(1,95)	1:9:A:LYS:H	1:145:A:ALA:H	6	0.15
(1,95)	1:9:A:LYS:H	1:145:A:ALA:H	17	0.15
(1,86)	1:11:A:ASP:H	1:144:A:LEU:H	15	0.15
(1,75)	1:35:A:ILE:H	1:97:A:VAL:H	8	0.15
(1,75)	1:35:A:ILE:H	1:97:A:VAL:H	16	0.15

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,73)	1:4:A:ALA:H	1:19:A:ASN:H	18	0.15
(1,63)	1:41:A:GLY:H	1:90:A:ASP:H	2	0.15
(1,48)	1:6:A:ALA:H	1:8:A:LEU:H	11	0.15
(1,43)	1:8:A:LEU:H	1:18:A:ILE:H	13	0.15
(1,42)	1:19:A:ASN:H	1:31:A:VAL:H	2	0.15
(1,42)	1:19:A:ASN:H	1:31:A:VAL:H	5	0.15
(1,42)	1:19:A:ASN:H	1:31:A:VAL:H	15	0.15
(1,34)	1:34:A:SER:H	1:97:A:VAL:H	16	0.15
(1,26)	1:51:A:GLY:H	1:149:A:ILE:H	4	0.15
(1,20)	1:89:A:ALA:H	1:95:A:ALA:H	10	0.15
(1,20)	1:89:A:ALA:H	1:95:A:ALA:H	19	0.15
(1,14)	1:46:A:HIS:H	1:48:A:HIS:H	13	0.15
(3,371)	1:132:A:GLU:N	2:201:A:CU:CU	12	0.14
(3,319)	1:41:A:GLY:N	2:201:A:CU:CU	9	0.14
(3,319)	1:41:A:GLY:N	2:201:A:CU:CU	18	0.14
(3,310)	1:31:A:VAL:N	2:201:A:CU:CU	11	0.14
(3,295)	1:9:A:LYS:N	2:201:A:CU:CU	1	0.14
(3,295)	1:9:A:LYS:N	2:201:A:CU:CU	8	0.14
(3,295)	1:9:A:LYS:N	2:201:A:CU:CU	9	0.14
(3,282)	1:142:A:SER:C	2:201:A:CU:CU	6	0.14
(3,281)	1:135:A:THR:C	2:201:A:CU:CU	6	0.14
(3,274)	1:120:A:HIS:C	2:201:A:CU:CU	16	0.14
(3,213)	1:10:A:GLY:C	2:201:A:CU:CU	1	0.14
(3,213)	1:10:A:GLY:C	2:201:A:CU:CU	19	0.14
(3,196)	1:139:A:ASN:C	2:201:A:CU:CU	1	0.14
(3,195)	1:138:A:GLY:C	2:201:A:CU:CU	6	0.14
(3,1)	1:2:A:THR:C	2:201:A:CU:CU	17	0.14
(2,6884)	1:31:A:VAL:CB	1:35:A:ILE:CD1	18	0.14
(2,158)	1:107:A:SER:N	1:109:A:ASP:N	7	0.14
(1,4533)	1:40:A:GLU:O	1:91:A:LYS:H	3	0.14
(1,4504)	1:76:A:ASP:O	1:103:A:VAL:H	1	0.14
(1,4486)	1:57:A:CYS:N	1:145:A:ALA:O	5	0.14
(1,4455)	1:47:A:VAL:O	1:117:A:LEU:N	17	0.14
(1,4442)	1:42:A:LEU:N	1:121:A:GLU:O	18	0.14
(1,4406)	1:17:A:ILE:O	1:32:A:TRP:N	15	0.14
(1,4404)	1:18:A:ILE:H	1:32:A:TRP:O	19	0.14
(1,4385)	1:2:A:THR:O	1:21:A:GLU:H	12	0.14
(1,4324)	1:2:A:THR:O	1:21:A:GLU:H	12	0.14
(1,3697)	1:132:A:GLU:CB	1:136:A:LYS:N	15	0.14
(1,3480)	1:126:A:LEU:CA	1:128:A:LYS:C	11	0.14
(1,3292)	1:118:A:VAL:CB	1:120:A:HIS:CA	4	0.14
(1,2972)	1:105:A:SER:C	1:108:A:GLY:CA	1	0.14

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,2042)	1:67:A:LEU:C	1:70:A:LYS:CB	12	0.14
(1,2034)	1:67:A:LEU:C	1:69:A:ARG:N	15	0.14
(1,2005)	1:66:A:PRO:C	1:70:A:LYS:CA	19	0.14
(1,2004)	1:66:A:PRO:C	1:70:A:LYS:N	19	0.14
(1,1689)	1:57:A:CYS:CB	1:59:A:SER:CA	3	0.14
(1,1296)	1:40:A:GLU:C	1:42:A:LEU:CB	3	0.14
(1,1286)	1:40:A:GLU:CB	1:42:A:LEU:CB	11	0.14
(1,1267)	1:39:A:THR:C	1:41:A:GLY:N	3	0.14
(1,1151)	1:34:A:SER:CA	1:36:A:LYS:CB	15	0.14
(1,1062)	1:30:A:LYS:CB	1:32:A:TRP:CB	12	0.14
(1,976)	1:27:A:GLY:CA	1:30:A:LYS:CA	6	0.14
(1,292)	1:37:A:GLY:H	1:39:A:THR:H	5	0.14
(1,271)	1:33:A:GLY:H	1:99:A:ILE:H	7	0.14
(1,262)	1:17:A:ILE:H	1:33:A:GLY:H	2	0.14
(1,252)	1:50:A:PHE:H	1:52:A:ASP:H	11	0.14
(1,252)	1:50:A:PHE:H	1:52:A:ASP:H	16	0.14
(1,249)	1:50:A:PHE:H	1:109:A:ASP:H	5	0.14
(1,247)	1:37:A:GLY:H	1:39:A:THR:H	5	0.14
(1,232)	1:116:A:THR:H	1:148:A:VAL:H	16	0.14
(1,228)	1:114:A:GLY:H	1:116:A:THR:H	5	0.14
(1,217)	1:87:A:VAL:H	1:122:A:LYS:H	12	0.14
(1,211)	1:41:A:GLY:H	1:89:A:ALA:H	1	0.14
(1,198)	1:52:A:ASP:H	1:56:A:GLY:H	8	0.14
(1,198)	1:52:A:ASP:H	1:56:A:GLY:H	16	0.14
(1,198)	1:52:A:ASP:H	1:56:A:GLY:H	17	0.14
(1,191)	1:52:A:ASP:H	1:114:A:GLY:H	9	0.14
(1,191)	1:52:A:ASP:H	1:114:A:GLY:H	13	0.14
(1,187)	1:46:A:HIS:H	1:48:A:HIS:H	18	0.14
(1,178)	1:112:A:ILE:H	1:115:A:ARG:H	6	0.14
(1,177)	1:124:A:ASP:H	1:126:A:LEU:H	2	0.14
(1,173)	1:73:A:GLY:H	1:126:A:LEU:H	2	0.14
(1,173)	1:73:A:GLY:H	1:126:A:LEU:H	10	0.14
(1,168)	1:88:A:THR:H	1:94:A:VAL:H	13	0.14
(1,168)	1:88:A:THR:H	1:94:A:VAL:H	17	0.14
(1,159)	1:49:A:GLU:H	1:118:A:VAL:H	8	0.14
(1,143)	1:36:A:LYS:H	1:94:A:VAL:H	10	0.14
(1,141)	1:88:A:THR:H	1:94:A:VAL:H	13	0.14
(1,141)	1:88:A:THR:H	1:94:A:VAL:H	17	0.14
(1,139)	1:69:A:ARG:H	1:78:A:GLU:H	8	0.14
(1,123)	1:22:A:GLN:H	1:106:A:LEU:H	1	0.14
(1,123)	1:22:A:GLN:H	1:106:A:LEU:H	15	0.14
(1,122)	1:42:A:LEU:H	1:124:A:ASP:H	12	0.14

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,122)	1:42:A:LEU:H	1:124:A:ASP:H	13	0.14
(1,120)	1:3:A:LYS:H	1:151:A:ILE:H	16	0.14
(1,119)	1:45:A:PHE:H	1:84:A:LEU:H	9	0.14
(1,119)	1:46:A:HIS:H	1:84:A:LEU:H	19	0.14
(1,112)	1:14:A:VAL:H	1:36:A:LYS:H	4	0.14
(1,101)	1:45:A:PHE:H	1:47:A:VAL:H	17	0.14
(1,95)	1:9:A:LYS:H	1:145:A:ALA:H	3	0.14
(1,47)	1:6:A:ALA:H	1:20:A:PHE:H	16	0.14
(1,38)	1:6:A:ALA:H	1:152:A:ALA:H	6	0.14
(1,38)	1:6:A:ALA:H	1:152:A:ALA:H	16	0.14
(1,23)	1:23:A:LYS:H	1:106:A:LEU:H	2	0.14
(1,14)	1:46:A:HIS:H	1:48:A:HIS:H	18	0.14
(3,310)	1:31:A:VAL:N	2:201:A:CU:CU	4	0.13
(3,253)	1:83:A:ASP:C	2:201:A:CU:CU	8	0.13
(3,241)	1:59:A:SER:C	2:201:A:CU:CU	5	0.13
(3,213)	1:10:A:GLY:C	2:201:A:CU:CU	4	0.13
(3,202)	1:48:A:HIS:H	2:201:A:CU:CU	16	0.13
(3,187)	1:118:A:VAL:C	2:201:A:CU:CU	19	0.13
(3,183)	1:81:A:VAL:C	2:201:A:CU:CU	6	0.13
(3,160)	1:113:A:ILE:N	2:201:A:CU:CU	5	0.13
(3,155)	1:105:A:SER:N	2:201:A:CU:CU	8	0.13
(3,134)	1:77:A:GLU:N	2:201:A:CU:CU	9	0.13
(3,84)	1:150:A:GLY:C	2:201:A:CU:CU	19	0.13
(3,1)	1:2:A:THR:C	2:201:A:CU:CU	2	0.13
(3,1)	1:2:A:THR:C	2:201:A:CU:CU	12	0.13
(2,8807)	1:41:A:GLY:CA	1:44:A:GLY:CA	13	0.13
(2,6957)	1:31:A:VAL:CG2	1:35:A:ILE:CG1	1	0.13
(2,156)	1:106:A:LEU:N	1:108:A:GLY:N	4	0.13
(1,4586)	1:22:A:GLN:O	1:105:A:SER:N	17	0.13
(1,4571)	1:77:A:GLU:N	1:102:A:SER:O	13	0.13
(1,4551)	1:33:A:GLY:N	1:97:A:VAL:O	7	0.13
(1,4512)	1:68:A:SER:H	1:78:A:GLU:O	8	0.13
(1,4511)	1:78:A:GLU:O	1:105:A:SER:N	4	0.13
(1,4493)	1:68:A:SER:H	1:78:A:GLU:O	8	0.13
(1,4440)	1:42:A:LEU:O	1:44:A:GLY:H	12	0.13
(1,4427)	1:39:A:THR:O	1:91:A:LYS:N	1	0.13
(1,4405)	1:32:A:TRP:H	1:97:A:VAL:O	3	0.13
(1,4404)	1:18:A:ILE:H	1:32:A:TRP:O	7	0.13
(1,4402)	1:31:A:VAL:N	1:100:A:GLU:O	18	0.13
(1,4107)	1:142:A:SER:C	1:145:A:ALA:CB	4	0.13
(1,4107)	1:142:A:SER:C	1:145:A:ALA:CB	8	0.13
(1,4104)	1:142:A:SER:C	1:144:A:LEU:C	10	0.13

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,3900)	1:135:A:THR:CB	1:137:A:THR:CB	11	0.13
(1,2975)	1:106:A:LEU:N	1:108:A:GLY:CA	10	0.13
(1,2887)	1:103:A:VAL:N	1:105:A:SER:CA	4	0.13
(1,2332)	1:79:A:ARG:C	1:81:A:VAL:N	18	0.13
(1,2054)	1:68:A:SER:CA	1:70:A:LYS:CB	5	0.13
(1,1958)	1:65:A:ASN:C	1:69:A:ARG:CB	11	0.13
(1,1702)	1:57:A:CYS:C	1:60:A:ALA:N	8	0.13
(1,1286)	1:40:A:GLU:CB	1:42:A:LEU:CB	8	0.13
(1,1099)	1:31:A:VAL:C	1:34:A:SER:CB	15	0.13
(1,356)	1:3:A:LYS:CA	1:5:A:VAL:CB	8	0.13
(1,300)	1:72:A:GLY:H	1:127:A:GLY:H	1	0.13
(1,300)	1:72:A:GLY:H	1:127:A:GLY:H	11	0.13
(1,297)	1:73:A:GLY:H	1:77:A:GLU:H	18	0.13
(1,292)	1:37:A:GLY:H	1:39:A:THR:H	1	0.13
(1,280)	1:108:A:GLY:H	1:112:A:ILE:H	16	0.13
(1,273)	1:27:A:GLY:H	1:105:A:SER:H	5	0.13
(1,273)	1:27:A:GLY:H	1:105:A:SER:H	10	0.13
(1,271)	1:33:A:GLY:H	1:99:A:ILE:H	15	0.13
(1,267)	1:33:A:GLY:H	1:35:A:ILE:H	13	0.13
(1,252)	1:50:A:PHE:H	1:52:A:ASP:H	18	0.13
(1,251)	1:111:A:SER:H	1:115:A:ARG:H	3	0.13
(1,247)	1:37:A:GLY:H	1:39:A:THR:H	1	0.13
(1,235)	1:116:A:THR:H	1:118:A:VAL:H	16	0.13
(1,232)	1:116:A:THR:H	1:148:A:VAL:H	2	0.13
(1,232)	1:116:A:THR:H	1:148:A:VAL:H	18	0.13
(1,222)	1:72:A:GLY:H	1:127:A:GLY:H	1	0.13
(1,222)	1:72:A:GLY:H	1:127:A:GLY:H	11	0.13
(1,218)	1:72:A:GLY:H	1:79:A:ARG:H	1	0.13
(1,217)	1:87:A:VAL:H	1:122:A:LYS:H	2	0.13
(1,217)	1:87:A:VAL:H	1:122:A:LYS:H	4	0.13
(1,205)	1:11:A:ASP:H	1:145:A:ALA:H	14	0.13
(1,201)	1:16:A:GLY:H	1:34:A:SER:H	17	0.13
(1,201)	1:16:A:GLY:H	1:34:A:SER:H	19	0.13
(1,198)	1:52:A:ASP:H	1:56:A:GLY:H	6	0.13
(1,195)	1:40:A:GLU:H	1:91:A:LYS:H	13	0.13
(1,195)	1:40:A:GLU:H	1:91:A:LYS:H	17	0.13
(1,189)	1:89:A:ALA:H	1:122:A:LYS:H	12	0.13
(1,187)	1:46:A:HIS:H	1:48:A:HIS:H	1	0.13
(1,168)	1:88:A:THR:H	1:94:A:VAL:H	1	0.13
(1,159)	1:49:A:GLU:H	1:118:A:VAL:H	5	0.13
(1,141)	1:88:A:THR:H	1:94:A:VAL:H	1	0.13
(1,138)	1:72:A:GLY:H	1:79:A:ARG:H	1	0.13

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,134)	1:68:A:SER:H	1:79:A:ARG:H	17	0.13
(1,133)	1:70:A:LYS:H	1:78:A:GLU:H	17	0.13
(1,131)	1:50:A:PHE:H	1:60:A:ALA:H	15	0.13
(1,131)	1:50:A:PHE:H	1:60:A:ALA:H	19	0.13
(1,128)	1:68:A:SER:H	1:79:A:ARG:H	17	0.13
(1,127)	1:70:A:LYS:H	1:78:A:GLU:H	17	0.13
(1,123)	1:22:A:GLN:H	1:106:A:LEU:H	12	0.13
(1,116)	1:42:A:LEU:H	1:123:A:ALA:H	13	0.13
(1,115)	1:20:A:PHE:H	1:151:A:ILE:H	1	0.13
(1,115)	1:20:A:PHE:H	1:151:A:ILE:H	2	0.13
(1,115)	1:20:A:PHE:H	1:151:A:ILE:H	7	0.13
(1,112)	1:14:A:VAL:H	1:36:A:LYS:H	5	0.13
(1,96)	1:15:A:GLN:H	1:38:A:LEU:H	19	0.13
(1,92)	1:3:A:LYS:H	1:21:A:GLU:H	8	0.13
(1,73)	1:4:A:ALA:H	1:19:A:ASN:H	15	0.13
(1,73)	1:4:A:ALA:H	1:19:A:ASN:H	17	0.13
(1,67)	1:7:A:VAL:H	1:149:A:ILE:H	13	0.13
(1,64)	1:90:A:ASP:H	1:95:A:ALA:H	7	0.13
(1,42)	1:19:A:ASN:H	1:31:A:VAL:H	10	0.13
(1,38)	1:6:A:ALA:H	1:152:A:ALA:H	11	0.13
(1,14)	1:46:A:HIS:H	1:48:A:HIS:H	1	0.13
(1,11)	1:48:A:HIS:H	1:83:A:ASP:H	8	0.13
(3,367)	1:121:A:GLU:N	2:201:A:CU:CU	19	0.12
(3,295)	1:9:A:LYS:N	2:201:A:CU:CU	15	0.12
(3,213)	1:10:A:GLY:C	2:201:A:CU:CU	3	0.12
(3,187)	1:118:A:VAL:C	2:201:A:CU:CU	18	0.12
(3,178)	1:45:A:PHE:C	2:201:A:CU:CU	3	0.12
(3,134)	1:77:A:GLU:N	2:201:A:CU:CU	18	0.12
(3,84)	1:150:A:GLY:C	2:201:A:CU:CU	3	0.12
(2,10616)	1:86:A:ASN:CB	1:89:A:ALA:C	13	0.12
(2,10545)	1:86:A:ASN:N	1:89:A:ALA:C	12	0.12
(2,8659)	1:40:A:GLU:CB	1:42:A:LEU:C	19	0.12
(2,1684)	1:6:A:ALA:CB	1:9:A:LYS:C	18	0.12
(2,1237)	1:4:A:ALA:CB	1:8:A:LEU:CA	3	0.12
(2,156)	1:106:A:LEU:N	1:108:A:GLY:N	16	0.12
(1,4660)	1:5:A:VAL:H	1:151:A:ILE:O	4	0.12
(1,4632)	1:119:A:VAL:H	1:144:A:LEU:O	5	0.12
(1,4625)	1:41:A:GLY:O	1:121:A:GLU:H	1	0.12
(1,4624)	1:42:A:LEU:H	1:121:A:GLU:O	6	0.12
(1,4620)	1:45:A:PHE:H	1:120:A:HIS:O	18	0.12
(1,4596)	1:114:A:GLY:O	1:149:A:ILE:H	13	0.12
(1,4565)	1:29:A:VAL:O	1:100:A:GLU:H	5	0.12

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4552)	1:33:A:GLY:H	1:97:A:VAL:O	18	0.12
(1,4547)	1:33:A:GLY:N	1:96:A:ASP:O	4	0.12
(1,4530)	1:86:A:ASN:N	1:96:A:ASP:O	8	0.12
(1,4515)	1:68:A:SER:N	1:79:A:ARG:O	8	0.12
(1,4514)	1:67:A:LEU:O	1:78:A:GLU:N	13	0.12
(1,4449)	1:45:A:PHE:H	1:120:A:HIS:O	18	0.12
(1,4441)	1:42:A:LEU:H	1:121:A:GLU:O	6	0.12
(1,4436)	1:41:A:GLY:O	1:121:A:GLU:H	1	0.12
(1,4424)	1:38:A:LEU:O	1:93:A:GLY:H	12	0.12
(1,4417)	1:15:A:GLN:O	1:35:A:ILE:H	6	0.12
(1,4404)	1:18:A:ILE:H	1:32:A:TRP:O	17	0.12
(1,4387)	1:2:A:THR:N	1:22:A:GLN:O	10	0.12
(1,4355)	1:10:A:GLY:O	1:14:A:VAL:N	6	0.12
(1,4108)	1:142:A:SER:C	1:145:A:ALA:C	4	0.12
(1,4107)	1:142:A:SER:C	1:145:A:ALA:CB	10	0.12
(1,4106)	1:142:A:SER:C	1:145:A:ALA:CA	13	0.12
(1,4104)	1:142:A:SER:C	1:144:A:LEU:C	6	0.12
(1,4104)	1:142:A:SER:C	1:144:A:LEU:C	16	0.12
(1,3940)	1:136:A:LYS:CG	1:138:A:GLY:C	3	0.12
(1,3921)	1:135:A:THR:C	1:138:A:GLY:C	14	0.12
(1,3516)	1:126:A:LEU:C	1:129:A:GLY:C	9	0.12
(1,3292)	1:118:A:VAL:CB	1:120:A:HIS:CA	2	0.12
(1,2974)	1:105:A:SER:C	1:109:A:ASP:N	18	0.12
(1,2872)	1:102:A:SER:CB	1:105:A:SER:CA	4	0.12
(1,2760)	1:98:A:SER:CB	1:100:A:GLU:CB	12	0.12
(1,2155)	1:72:A:GLY:C	1:74:A:PRO:C	5	0.12
(1,2064)	1:68:A:SER:CB	1:70:A:LYS:C	10	0.12
(1,2044)	1:67:A:LEU:C	1:70:A:LYS:C	10	0.12
(1,2034)	1:67:A:LEU:C	1:69:A:ARG:N	4	0.12
(1,2034)	1:67:A:LEU:C	1:69:A:ARG:N	14	0.12
(1,1824)	1:62:A:PRO:CD	1:64:A:PHE:CA	18	0.12
(1,1308)	1:41:A:GLY:CA	1:43:A:HIS:CB	19	0.12
(1,1296)	1:40:A:GLU:C	1:42:A:LEU:CB	2	0.12
(1,1099)	1:31:A:VAL:C	1:34:A:SER:CB	5	0.12
(1,977)	1:27:A:GLY:CA	1:30:A:LYS:CB	14	0.12
(1,976)	1:27:A:GLY:CA	1:30:A:LYS:CA	7	0.12
(1,604)	1:13:A:PRO:CD	1:15:A:GLN:CA	15	0.12
(1,603)	1:13:A:PRO:CD	1:15:A:GLN:N	4	0.12
(1,603)	1:13:A:PRO:CD	1:15:A:GLN:N	14	0.12
(1,303)	1:69:A:ARG:H	1:82:A:GLY:H	2	0.12
(1,276)	1:47:A:VAL:H	1:85:A:GLY:H	1	0.12
(1,273)	1:27:A:GLY:H	1:105:A:SER:H	3	0.12

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,273)	1:27:A:GLY:H	1:105:A:SER:H	13	0.12
(1,273)	1:27:A:GLY:H	1:105:A:SER:H	19	0.12
(1,266)	1:33:A:GLY:H	1:97:A:VAL:H	8	0.12
(1,261)	1:129:A:GLY:H	1:136:A:LYS:H	9	0.12
(1,261)	1:129:A:GLY:H	1:136:A:LYS:H	16	0.12
(1,256)	1:42:A:LEU:H	1:44:A:GLY:H	8	0.12
(1,255)	1:42:A:LEU:H	1:44:A:GLY:H	8	0.12
(1,251)	1:111:A:SER:H	1:115:A:ARG:H	11	0.12
(1,248)	1:40:A:GLU:H	1:93:A:GLY:H	16	0.12
(1,239)	1:68:A:SER:H	1:71:A:HIS:H	9	0.12
(1,236)	1:60:A:ALA:H	1:116:A:THR:H	6	0.12
(1,236)	1:60:A:ALA:H	1:116:A:THR:H	7	0.12
(1,219)	1:72:A:GLY:H	1:80:A:HIS:H	19	0.12
(1,216)	1:87:A:VAL:H	1:89:A:ALA:H	13	0.12
(1,211)	1:41:A:GLY:H	1:89:A:ALA:H	14	0.12
(1,208)	1:34:A:SER:H	1:95:A:ALA:H	11	0.12
(1,208)	1:34:A:SER:H	1:95:A:ALA:H	13	0.12
(1,207)	1:17:A:ILE:H	1:34:A:SER:H	11	0.12
(1,201)	1:16:A:GLY:H	1:34:A:SER:H	7	0.12
(1,201)	1:16:A:GLY:H	1:34:A:SER:H	10	0.12
(1,195)	1:40:A:GLU:H	1:91:A:LYS:H	2	0.12
(1,195)	1:40:A:GLU:H	1:91:A:LYS:H	14	0.12
(1,191)	1:52:A:ASP:H	1:114:A:GLY:H	10	0.12
(1,191)	1:52:A:ASP:H	1:114:A:GLY:H	16	0.12
(1,187)	1:46:A:HIS:H	1:48:A:HIS:H	2	0.12
(1,177)	1:124:A:ASP:H	1:126:A:LEU:H	14	0.12
(1,174)	1:53:A:ASN:H	1:57:A:CYS:H	8	0.12
(1,162)	1:67:A:LEU:H	1:70:A:LYS:H	19	0.12
(1,161)	1:72:A:GLY:H	1:80:A:HIS:H	19	0.12
(1,151)	1:89:A:ALA:H	1:94:A:VAL:H	19	0.12
(1,143)	1:36:A:LYS:H	1:94:A:VAL:H	17	0.12
(1,137)	1:51:A:GLY:H	1:111:A:SER:H	15	0.12
(1,135)	1:79:A:ARG:H	1:82:A:GLY:H	7	0.12
(1,131)	1:50:A:PHE:H	1:60:A:ALA:H	16	0.12
(1,129)	1:60:A:ALA:H	1:63:A:HIS:H	6	0.12
(1,129)	1:60:A:ALA:H	1:63:A:HIS:H	18	0.12
(1,123)	1:22:A:GLN:H	1:106:A:LEU:H	14	0.12
(1,115)	1:20:A:PHE:H	1:151:A:ILE:H	4	0.12
(1,112)	1:14:A:VAL:H	1:36:A:LYS:H	9	0.12
(1,112)	1:14:A:VAL:H	1:36:A:LYS:H	15	0.12
(1,95)	1:9:A:LYS:H	1:145:A:ALA:H	1	0.12
(1,95)	1:9:A:LYS:H	1:145:A:ALA:H	10	0.12

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,95)	1:9:A:LYS:H	1:145:A:ALA:H	14	0.12
(1,73)	1:4:A:ALA:H	1:19:A:ASN:H	4	0.12
(1,73)	1:4:A:ALA:H	1:19:A:ASN:H	8	0.12
(1,64)	1:90:A:ASP:H	1:95:A:ALA:H	12	0.12
(1,48)	1:6:A:ALA:H	1:8:A:LEU:H	12	0.12
(1,43)	1:8:A:LEU:H	1:18:A:ILE:H	5	0.12
(1,42)	1:19:A:ASN:H	1:31:A:VAL:H	1	0.12
(1,38)	1:6:A:ALA:H	1:152:A:ALA:H	1	0.12
(1,38)	1:6:A:ALA:H	1:152:A:ALA:H	4	0.12
(1,32)	1:52:A:ASP:H	1:149:A:ILE:H	17	0.12
(1,23)	1:23:A:LYS:H	1:106:A:LEU:H	9	0.12
(1,14)	1:46:A:HIS:H	1:48:A:HIS:H	2	0.12
(3,333)	1:72:A:GLY:N	2:201:A:CU:CU	11	0.11
(3,310)	1:31:A:VAL:N	2:201:A:CU:CU	5	0.11
(3,310)	1:31:A:VAL:N	2:201:A:CU:CU	13	0.11
(3,310)	1:31:A:VAL:N	2:201:A:CU:CU	17	0.11
(3,295)	1:9:A:LYS:N	2:201:A:CU:CU	2	0.11
(3,279)	1:133:A:GLU:C	2:201:A:CU:CU	18	0.11
(3,265)	1:100:A:GLU:C	2:201:A:CU:CU	8	0.11
(3,253)	1:83:A:ASP:C	2:201:A:CU:CU	10	0.11
(3,241)	1:59:A:SER:C	2:201:A:CU:CU	11	0.11
(3,196)	1:139:A:ASN:C	2:201:A:CU:CU	14	0.11
(3,187)	1:118:A:VAL:C	2:201:A:CU:CU	14	0.11
(3,157)	1:109:A:ASP:N	2:201:A:CU:CU	8	0.11
(3,95)	1:12:A:GLY:N	2:201:A:CU:CU	16	0.11
(3,84)	1:150:A:GLY:C	2:201:A:CU:CU	9	0.11
(2,10792)	1:87:A:VAL:CG1	1:89:A:ALA:CA	10	0.11
(2,10700)	1:86:A:ASN:C	1:89:A:ALA:C	14	0.11
(2,8661)	1:40:A:GLU:CB	1:43:A:HIS:CA	19	0.11
(2,4104)	1:18:A:ILE:CB	1:21:A:GLU:C	7	0.11
(2,902)	1:3:A:LYS:CA	1:19:A:ASN:CA	11	0.11
(2,156)	1:106:A:LEU:N	1:108:A:GLY:N	3	0.11
(1,4660)	1:5:A:VAL:H	1:151:A:ILE:O	8	0.11
(1,4596)	1:114:A:GLY:O	1:149:A:ILE:H	11	0.11
(1,4581)	1:21:A:GLU:O	1:104:A:ILE:H	11	0.11
(1,4580)	1:22:A:GLN:H	1:104:A:ILE:O	7	0.11
(1,4578)	1:76:A:ASP:O	1:103:A:VAL:N	11	0.11
(1,4557)	1:86:A:ASN:O	1:98:A:SER:H	5	0.11
(1,4495)	1:69:A:ARG:O	1:79:A:ARG:N	13	0.11
(1,4486)	1:57:A:CYS:N	1:116:A:THR:O	8	0.11
(1,4461)	1:48:A:HIS:H	1:116:A:THR:O	18	0.11
(1,4445)	1:42:A:LEU:O	1:44:A:GLY:H	6	0.11

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4440)	1:42:A:LEU:O	1:44:A:GLY:H	6	0.11
(1,4417)	1:15:A:GLN:O	1:35:A:ILE:H	12	0.11
(1,4389)	1:22:A:GLN:H	1:104:A:ILE:O	7	0.11
(1,4384)	1:21:A:GLU:O	1:104:A:ILE:H	11	0.11
(1,4355)	1:10:A:GLY:O	1:14:A:VAL:N	8	0.11
(1,4104)	1:142:A:SER:C	1:144:A:LEU:C	18	0.11
(1,3918)	1:135:A:THR:C	1:137:A:THR:C	15	0.11
(1,3831)	1:134:A:SER:N	1:137:A:THR:CB	19	0.11
(1,3298)	1:118:A:VAL:CG2	1:120:A:HIS:CA	2	0.11
(1,3003)	1:107:A:SER:N	1:109:A:ASP:C	6	0.11
(1,2892)	1:103:A:VAL:CA	1:105:A:SER:CA	6	0.11
(1,2583)	1:90:A:ASP:C	1:92:A:ASP:N	13	0.11
(1,2576)	1:90:A:ASP:CB	1:92:A:ASP:CG	6	0.11
(1,2052)	1:68:A:SER:CA	1:70:A:LYS:N	5	0.11
(1,2046)	1:68:A:SER:N	1:70:A:LYS:CA	15	0.11
(1,2034)	1:67:A:LEU:C	1:69:A:ARG:N	19	0.11
(1,2013)	1:67:A:LEU:CA	1:69:A:ARG:N	12	0.11
(1,2008)	1:67:A:LEU:N	1:69:A:ARG:CG	1	0.11
(1,1717)	1:58:A:THR:CA	1:60:A:ALA:C	9	0.11
(1,1689)	1:57:A:CYS:CB	1:59:A:SER:CA	4	0.11
(1,1689)	1:57:A:CYS:CB	1:59:A:SER:CA	5	0.11
(1,1314)	1:41:A:GLY:C	1:43:A:HIS:CB	3	0.11
(1,1286)	1:40:A:GLU:CB	1:42:A:LEU:CB	6	0.11
(1,1267)	1:39:A:THR:C	1:41:A:GLY:N	1	0.11
(1,1267)	1:39:A:THR:C	1:41:A:GLY:N	2	0.11
(1,1267)	1:39:A:THR:C	1:41:A:GLY:N	14	0.11
(1,1267)	1:39:A:THR:C	1:41:A:GLY:N	16	0.11
(1,977)	1:27:A:GLY:CA	1:30:A:LYS:CB	5	0.11
(1,976)	1:27:A:GLY:CA	1:30:A:LYS:CA	3	0.11
(1,976)	1:27:A:GLY:CA	1:30:A:LYS:CA	10	0.11
(1,766)	1:19:A:ASN:CA	1:21:A:GLU:CB	18	0.11
(1,303)	1:69:A:ARG:H	1:82:A:GLY:H	11	0.11
(1,301)	1:73:A:GLY:H	1:127:A:GLY:H	19	0.11
(1,280)	1:108:A:GLY:H	1:112:A:ILE:H	1	0.11
(1,280)	1:108:A:GLY:H	1:112:A:ILE:H	12	0.11
(1,276)	1:47:A:VAL:H	1:85:A:GLY:H	3	0.11
(1,266)	1:33:A:GLY:H	1:97:A:VAL:H	13	0.11
(1,262)	1:17:A:ILE:H	1:33:A:GLY:H	9	0.11
(1,255)	1:42:A:LEU:H	1:44:A:GLY:H	9	0.11
(1,249)	1:50:A:PHE:H	1:109:A:ASP:H	6	0.11
(1,246)	1:9:A:LYS:H	1:146:A:CYS:H	4	0.11
(1,223)	1:51:A:GLY:H	1:114:A:GLY:H	11	0.11

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,223)	1:51:A:GLY:H	1:114:A:GLY:H	19	0.11
(1,217)	1:87:A:VAL:H	1:122:A:LYS:H	3	0.11
(1,211)	1:41:A:GLY:H	1:89:A:ALA:H	16	0.11
(1,195)	1:40:A:GLU:H	1:91:A:LYS:H	12	0.11
(1,187)	1:46:A:HIS:H	1:48:A:HIS:H	7	0.11
(1,183)	1:51:A:GLY:H	1:110:A:HIS:H	1	0.11
(1,177)	1:124:A:ASP:H	1:126:A:LEU:H	9	0.11
(1,173)	1:73:A:GLY:H	1:126:A:LEU:H	12	0.11
(1,168)	1:88:A:THR:H	1:94:A:VAL:H	10	0.11
(1,161)	1:72:A:GLY:H	1:80:A:HIS:H	11	0.11
(1,151)	1:89:A:ALA:H	1:94:A:VAL:H	4	0.11
(1,141)	1:88:A:THR:H	1:94:A:VAL:H	10	0.11
(1,129)	1:60:A:ALA:H	1:63:A:HIS:H	19	0.11
(1,122)	1:42:A:LEU:H	1:124:A:ASP:H	19	0.11
(1,118)	1:47:A:VAL:H	1:84:A:LEU:H	6	0.11
(1,116)	1:42:A:LEU:H	1:123:A:ALA:H	1	0.11
(1,111)	1:17:A:ILE:H	1:33:A:GLY:H	9	0.11
(1,98)	1:44:A:GLY:H	1:123:A:ALA:H	11	0.11
(1,95)	1:9:A:LYS:H	1:145:A:ALA:H	8	0.11
(1,64)	1:90:A:ASP:H	1:95:A:ALA:H	18	0.11
(1,63)	1:88:A:THR:H	1:90:A:ASP:H	1	0.11
(1,52)	1:21:A:GLU:H	1:32:A:TRP:H	13	0.11
(1,49)	1:47:A:VAL:H	1:118:A:VAL:H	17	0.11
(1,49)	1:47:A:VAL:H	1:118:A:VAL:H	19	0.11
(1,43)	1:8:A:LEU:H	1:18:A:ILE:H	14	0.11
(1,42)	1:19:A:ASN:H	1:31:A:VAL:H	17	0.11
(1,38)	1:6:A:ALA:H	1:152:A:ALA:H	5	0.11
(1,32)	1:52:A:ASP:H	1:149:A:ILE:H	2	0.11
(1,14)	1:46:A:HIS:H	1:48:A:HIS:H	7	0.11
(3,295)	1:9:A:LYS:N	2:201:A:CU:CU	7	0.1
(3,281)	1:135:A:THR:C	2:201:A:CU:CU	19	0.1
(3,253)	1:83:A:ASP:C	2:201:A:CU:CU	2	0.1
(3,234)	1:42:A:LEU:C	2:201:A:CU:CU	19	0.1
(3,213)	1:10:A:GLY:C	2:201:A:CU:CU	12	0.1
(3,143)	1:90:A:ASP:N	2:201:A:CU:CU	10	0.1
(3,133)	1:76:A:ASP:N	2:201:A:CU:CU	17	0.1
(2,1237)	1:4:A:ALA:CB	1:8:A:LEU:CA	15	0.1
(2,101)	1:67:A:LEU:N	1:70:A:LYS:N	14	0.1
(1,4568)	1:29:A:VAL:H	1:101:A:ASP:O	2	0.1
(1,4515)	1:68:A:SER:N	1:79:A:ARG:O	3	0.1
(1,4513)	1:68:A:SER:O	1:78:A:GLU:H	8	0.1
(1,4481)	1:56:A:GLY:H	1:146:A:CYS:O	11	0.1

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,4464)	1:49:A:GLU:O	1:116:A:THR:H	13	0.1
(1,4456)	1:47:A:VAL:O	1:118:A:VAL:H	9	0.1
(1,4440)	1:42:A:LEU:O	1:44:A:GLY:H	2	0.1
(1,4360)	1:10:A:GLY:H	1:14:A:VAL:O	7	0.1
(1,3940)	1:136:A:LYS:CG	1:138:A:GLY:C	2	0.1
(1,2976)	1:106:A:LEU:N	1:108:A:GLY:C	13	0.1
(1,2975)	1:106:A:LEU:N	1:108:A:GLY:CA	5	0.1
(1,1967)	1:66:A:PRO:CD	1:68:A:SER:N	9	0.1
(1,1314)	1:41:A:GLY:C	1:43:A:HIS:CB	10	0.1
(1,1267)	1:39:A:THR:C	1:41:A:GLY:N	9	0.1
(1,273)	1:27:A:GLY:H	1:105:A:SER:H	9	0.1
(1,273)	1:27:A:GLY:H	1:105:A:SER:H	12	0.1
(1,263)	1:27:A:GLY:H	1:102:A:SER:H	7	0.1
(1,262)	1:17:A:ILE:H	1:33:A:GLY:H	6	0.1
(1,261)	1:129:A:GLY:H	1:136:A:LYS:H	1	0.1
(1,261)	1:129:A:GLY:H	1:136:A:LYS:H	7	0.1
(1,252)	1:50:A:PHE:H	1:52:A:ASP:H	14	0.1
(1,249)	1:50:A:PHE:H	1:109:A:ASP:H	8	0.1
(1,232)	1:116:A:THR:H	1:148:A:VAL:H	3	0.1
(1,232)	1:116:A:THR:H	1:148:A:VAL:H	9	0.1
(1,219)	1:72:A:GLY:H	1:80:A:HIS:H	17	0.1
(1,211)	1:41:A:GLY:H	1:89:A:ALA:H	11	0.1
(1,201)	1:16:A:GLY:H	1:34:A:SER:H	1	0.1
(1,201)	1:16:A:GLY:H	1:34:A:SER:H	3	0.1
(1,199)	1:52:A:ASP:H	1:149:A:ILE:H	11	0.1
(1,197)	1:52:A:ASP:H	1:148:A:VAL:H	1	0.1
(1,187)	1:46:A:HIS:H	1:48:A:HIS:H	19	0.1
(1,185)	1:20:A:PHE:H	1:150:A:GLY:H	3	0.1
(1,168)	1:88:A:THR:H	1:94:A:VAL:H	3	0.1
(1,161)	1:72:A:GLY:H	1:80:A:HIS:H	17	0.1
(1,159)	1:49:A:GLU:H	1:118:A:VAL:H	12	0.1
(1,159)	1:49:A:GLU:H	1:118:A:VAL:H	16	0.1
(1,146)	1:67:A:LEU:H	1:109:A:ASP:H	14	0.1
(1,143)	1:36:A:LYS:H	1:94:A:VAL:H	2	0.1
(1,141)	1:88:A:THR:H	1:94:A:VAL:H	3	0.1
(1,135)	1:79:A:ARG:H	1:82:A:GLY:H	17	0.1
(1,130)	1:53:A:ASN:H	1:60:A:ALA:H	5	0.1
(1,122)	1:42:A:LEU:H	1:124:A:ASP:H	8	0.1
(1,115)	1:20:A:PHE:H	1:151:A:ILE:H	11	0.1
(1,112)	1:14:A:VAL:H	1:36:A:LYS:H	6	0.1
(1,111)	1:17:A:ILE:H	1:33:A:GLY:H	6	0.1
(1,100)	1:46:A:HIS:H	1:83:A:ASP:H	12	0.1

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Model ID	Violation (Å)
(1,55)	1:96:A:ASP:H	1:98:A:SER:H	9	0.1
(1,42)	1:19:A:ASN:H	1:31:A:VAL:H	19	0.1
(1,32)	1:52:A:ASP:H	1:149:A:ILE:H	11	0.1
(1,20)	1:89:A:ALA:H	1:95:A:ALA:H	1	0.1
(1,14)	1:46:A:HIS:H	1:48:A:HIS:H	19	0.1
(1,6)	1:125:A:ASP:H	1:127:A:GLY:H	6	0.1

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

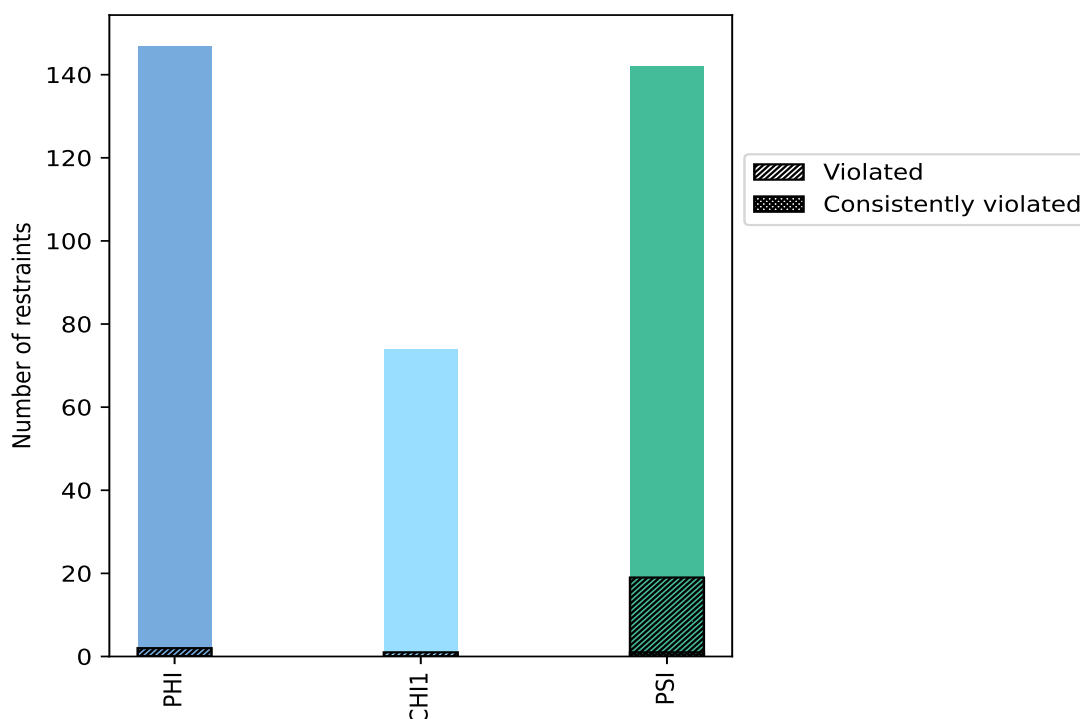
10.1 Summary of dihedral-angle violations [i](#)

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
PHI	147	40.5	2	1.4	0.6	0	0.0	0.0
CHI1	74	20.4	1	1.4	0.3	0	0.0	0.0
PSI	142	39.1	19	13.4	5.2	1	0.7	0.3
Total	363	100.0	22	6.1	6.1	1	0.3	0.3

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](#)



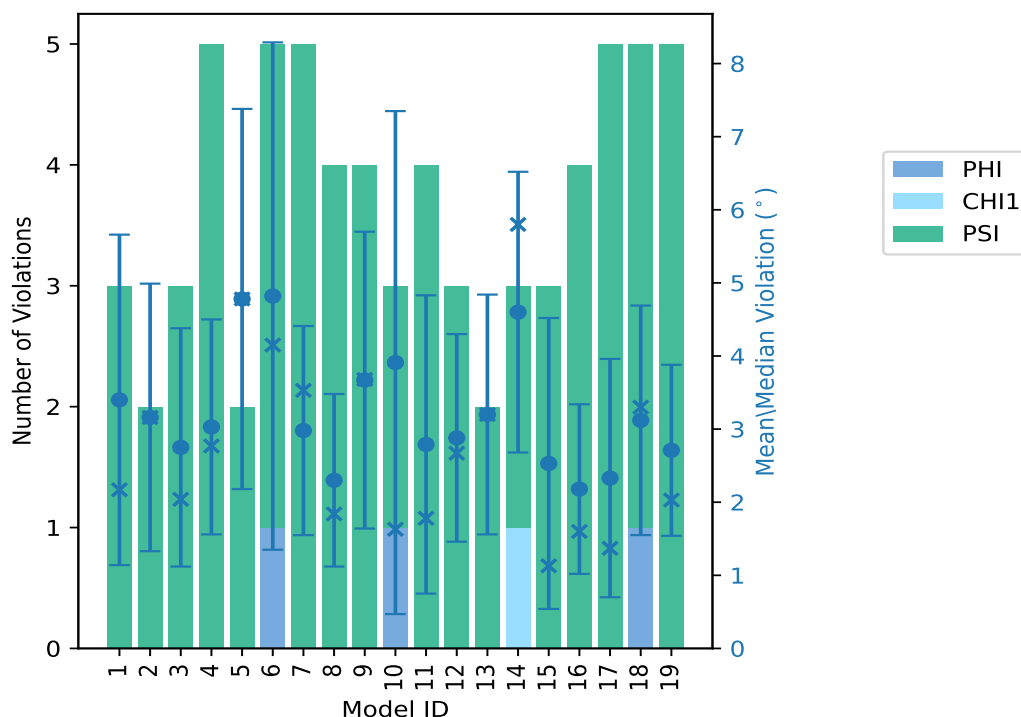
Violated and consistently violated restraints are shown using different hatch patterns in their respective categories

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 (°)
	PHI	CHI1	PSI	Total				
1	0	0	3	3	3.4	6.56	2.26	2.17
2	0	0	2	2	3.16	4.98	1.83	3.16
3	0	0	3	3	2.75	5.01	1.63	2.04
4	0	0	5	5	3.03	5.2	1.47	2.77
5	0	0	2	2	4.78	7.39	2.6	4.78
6	1	0	4	5	4.82	11.34	3.47	4.15
7	0	0	5	5	2.98	4.97	1.43	3.53
8	0	0	4	4	2.3	4.3	1.18	1.84
9	0	0	4	4	3.67	5.79	2.03	3.68
10	1	0	2	3	3.91	8.78	3.44	1.63
11	0	0	4	4	2.79	6.29	2.04	1.78
12	0	0	3	3	2.88	4.72	1.42	2.67
13	0	0	2	2	3.2	4.84	1.64	3.2
14	0	1	2	3	4.6	6.1	1.92	5.8
15	0	0	3	3	2.53	5.35	1.99	1.13
16	0	0	4	4	2.18	4.17	1.16	1.6
17	0	0	5	5	2.33	5.47	1.63	1.37
18	1	0	4	5	3.12	5.81	1.57	3.3
19	0	0	5	5	2.71	4.37	1.17	2.03

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	
PHI	CHI1	PSI	Total	Count ¹	%
1	1	8	10	1	5.3
1	0	2	3	2	10.5
0	0	4	4	3	15.8
0	0	1	1	4	21.1
0	0	2	2	5	26.3
0	0	0	0	6	31.6
0	0	0	0	7	36.8
0	0	0	0	8	42.1
0	0	1	1	9	47.4
0	0	0	0	10	52.6
0	0	0	0	11	57.9

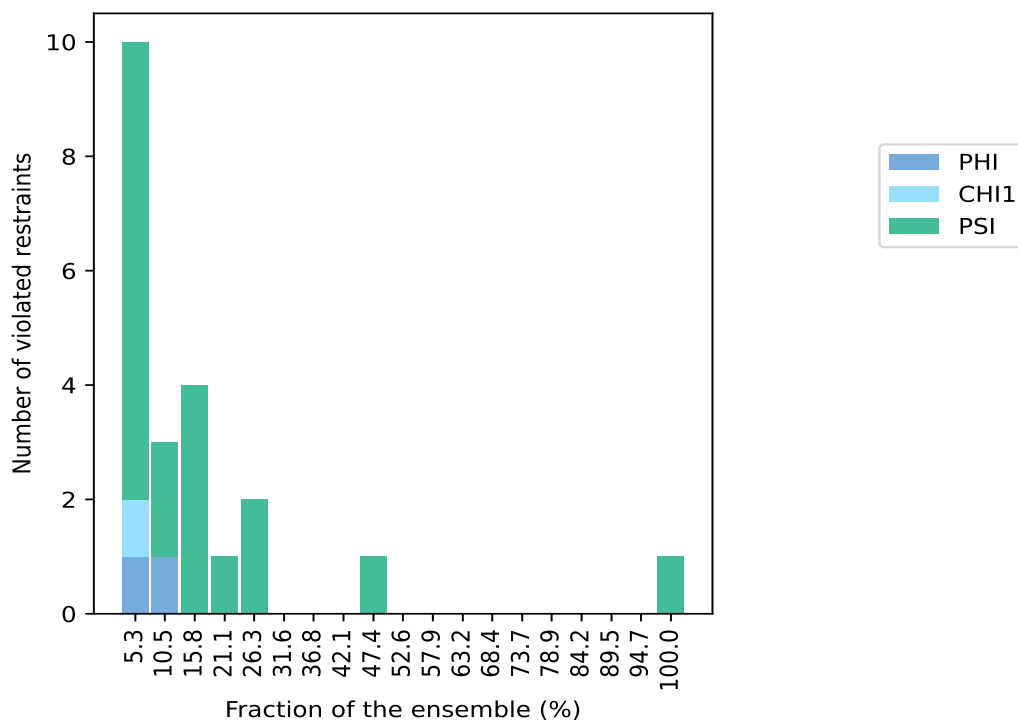
Continued on next page...

Continued from previous page...

Number of violated restraints				Fraction of the ensemble	
PHI	CHI1	PSI	Total	Count ¹	%
0	0	0	0	12	63.2
0	0	0	0	13	68.4
0	0	0	0	14	73.7
0	0	0	0	15	78.9
0	0	0	0	16	84.2
0	0	0	0	17	89.5
0	0	0	0	18	94.7
0	0	1	1	19	100.0

¹ Number of models with violations

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

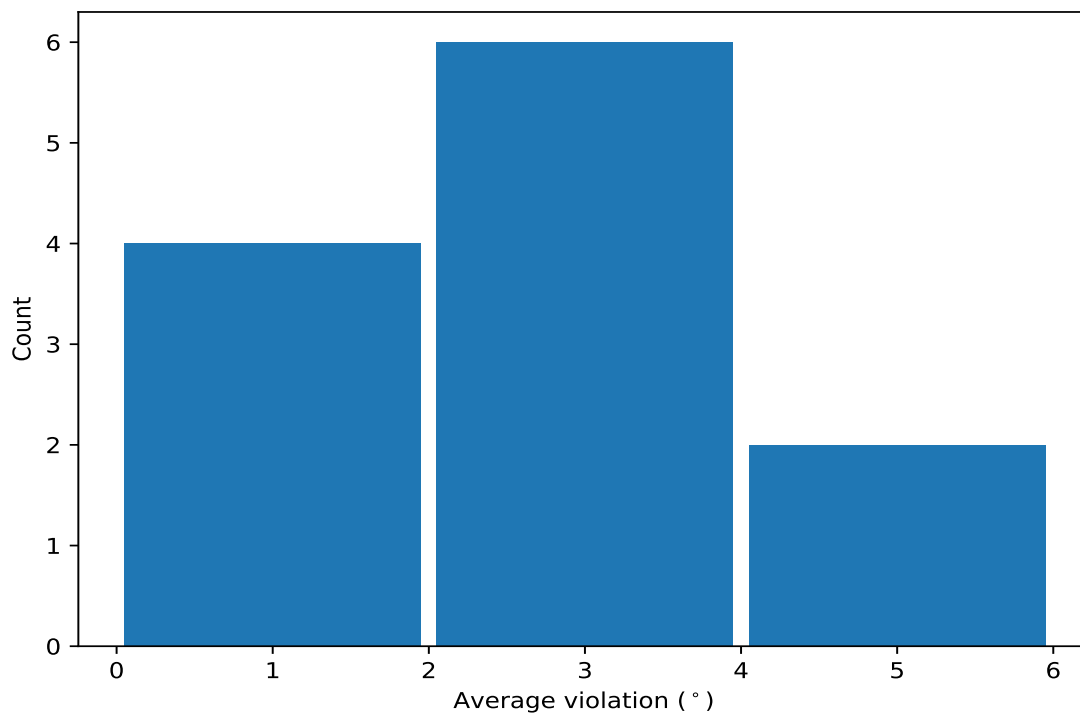


10.4 Most violated dihedral-angle restraints in the ensemble [i](#)

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.

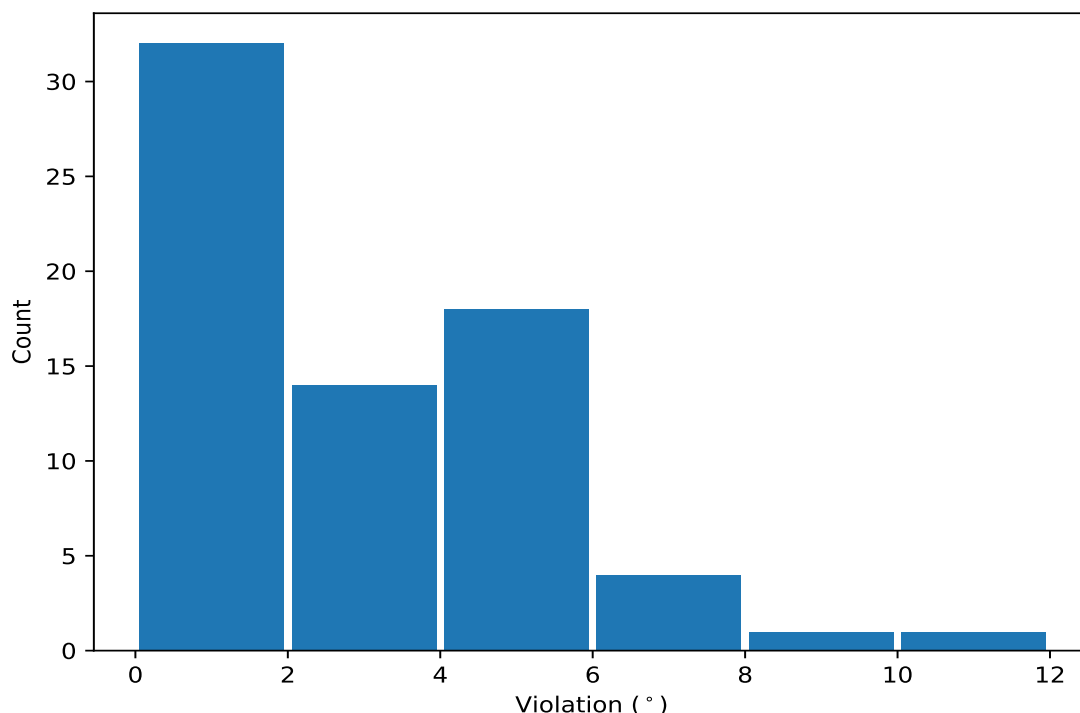
Key	Atom-1	Atom-2	Atom-3	Atom-4	Models ¹	Mean	SD ²	Median
(1,355)	1:37:A:GLY:N	1:37:A:GLY:CA	1:37:A:GLY:C	1:38:A:LEU:N	19	5.47	1.14	5.2
(1,361)	1:108:A:GLY:N	1:108:A:GLY:CA	1:108:A:GLY:C	1:109:A:ASP:N	9	2.13	0.83	1.75
(1,358)	1:41:A:GLY:N	1:41:A:GLY:CA	1:41:A:GLY:C	1:42:A:LEU:N	5	2.11	0.95	1.91
(1,98)	1:42:A:LEU:N	1:42:A:LEU:CA	1:42:A:LEU:C	1:43:A:HIS:N	5	1.47	0.26	1.33
(1,157)	1:68:A:SER:N	1:68:A:SER:CA	1:68:A:SER:C	1:69:A:ARG:N	4	4.88	4.13	3.46
(1,251)	1:109:A:ASP:N	1:109:A:ASP:CA	1:109:A:ASP:C	1:110:A:HIS:N	3	2.03	1.06	1.33
(1,357)	1:10:A:GLY:N	1:10:A:GLY:CA	1:10:A:GLY:C	1:11:A:ASP:N	3	2.01	0.54	2.03
(1,359)	1:56:A:GLY:N	1:56:A:GLY:CA	1:56:A:GLY:C	1:57:A:CYS:N	3	1.72	0.23	1.65
(1,163)	1:70:A:LYS:N	1:70:A:LYS:CA	1:70:A:LYS:C	1:71:A:HIS:N	3	1.64	0.54	1.53
(1,142)	1:60:A:ALA:C	1:61:A:GLY:N	1:61:A:GLY:CA	1:61:A:GLY:C	2	3.88	0.5	3.88
(1,290)	1:124:A:ASP:N	1:124:A:ASP:CA	1:124:A:ASP:C	1:125:A:ASP:N	2	2.28	1.02	2.28
(1,363)	1:150:A:GLY:N	1:150:A:GLY:CA	1:150:A:GLY:C	1:151:A:ILE:N	2	1.2	0.17	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 (°)
(1,157)	1:68:A:SER:N	1:68:A:SER:CA	1:68:A:SER:C	1:69:A:ARG:N	6	11.34
(1,355)	1:37:A:GLY:N	1:37:A:GLY:CA	1:37:A:GLY:C	1:38:A:LEU:N	10	8.78
(1,355)	1:37:A:GLY:N	1:37:A:GLY:CA	1:37:A:GLY:C	1:38:A:LEU:N	5	7.39
(1,355)	1:37:A:GLY:N	1:37:A:GLY:CA	1:37:A:GLY:C	1:38:A:LEU:N	1	6.56
(1,355)	1:37:A:GLY:N	1:37:A:GLY:CA	1:37:A:GLY:C	1:38:A:LEU:N	11	6.29
(1,113)	1:48:A:HIS:N	1:48:A:HIS:CA	1:48:A:HIS:CB	1:48:A:HIS:CG	14	6.1
(1,355)	1:37:A:GLY:N	1:37:A:GLY:CA	1:37:A:GLY:C	1:38:A:LEU:N	18	5.81
(1,355)	1:37:A:GLY:N	1:37:A:GLY:CA	1:37:A:GLY:C	1:38:A:LEU:N	14	5.8
(1,355)	1:37:A:GLY:N	1:37:A:GLY:CA	1:37:A:GLY:C	1:38:A:LEU:N	9	5.79
(1,157)	1:68:A:SER:N	1:68:A:SER:CA	1:68:A:SER:C	1:69:A:ARG:N	9	5.62
(1,355)	1:37:A:GLY:N	1:37:A:GLY:CA	1:37:A:GLY:C	1:38:A:LEU:N	17	5.47
(1,355)	1:37:A:GLY:N	1:37:A:GLY:CA	1:37:A:GLY:C	1:38:A:LEU:N	15	5.35
(1,355)	1:37:A:GLY:N	1:37:A:GLY:CA	1:37:A:GLY:C	1:38:A:LEU:N	4	5.2
(1,355)	1:37:A:GLY:N	1:37:A:GLY:CA	1:37:A:GLY:C	1:38:A:LEU:N	3	5.01

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,355)	1:37:A:GLY:N	1:37:A:GLY:CA	1:37:A:GLY:C	1:38:A:LEU:N	2	4.98
(1,355)	1:37:A:GLY:N	1:37:A:GLY:CA	1:37:A:GLY:C	1:38:A:LEU:N	7	4.97
(1,355)	1:37:A:GLY:N	1:37:A:GLY:CA	1:37:A:GLY:C	1:38:A:LEU:N	13	4.84
(1,355)	1:37:A:GLY:N	1:37:A:GLY:CA	1:37:A:GLY:C	1:38:A:LEU:N	12	4.72
(1,142)	1:60:A:ALA:C	1:61:A:GLY:N	1:61:A:GLY:CA	1:61:A:GLY:C	6	4.38
(1,355)	1:37:A:GLY:N	1:37:A:GLY:CA	1:37:A:GLY:C	1:38:A:LEU:N	19	4.37
(1,355)	1:37:A:GLY:N	1:37:A:GLY:CA	1:37:A:GLY:C	1:38:A:LEU:N	8	4.3
(1,355)	1:37:A:GLY:N	1:37:A:GLY:CA	1:37:A:GLY:C	1:38:A:LEU:N	16	4.17
(1,187)	1:80:A:HIS:N	1:80:A:HIS:CA	1:80:A:HIS:C	1:81:A:VAL:N	4	4.17
(1,355)	1:37:A:GLY:N	1:37:A:GLY:CA	1:37:A:GLY:C	1:38:A:LEU:N	6	4.15
(1,358)	1:41:A:GLY:N	1:41:A:GLY:CA	1:41:A:GLY:C	1:42:A:LEU:N	19	3.87
(1,361)	1:108:A:GLY:N	1:108:A:GLY:CA	1:108:A:GLY:C	1:109:A:ASP:N	7	3.68
(1,251)	1:109:A:ASP:N	1:109:A:ASP:CA	1:109:A:ASP:C	1:110:A:HIS:N	7	3.53
(1,142)	1:60:A:ALA:C	1:61:A:GLY:N	1:61:A:GLY:CA	1:61:A:GLY:C	18	3.38
(1,290)	1:124:A:ASP:N	1:124:A:ASP:CA	1:124:A:ASP:C	1:125:A:ASP:N	18	3.3
(1,361)	1:108:A:GLY:N	1:108:A:GLY:CA	1:108:A:GLY:C	1:109:A:ASP:N	6	3.22
(1,361)	1:108:A:GLY:N	1:108:A:GLY:CA	1:108:A:GLY:C	1:109:A:ASP:N	4	2.77
(1,357)	1:10:A:GLY:N	1:10:A:GLY:CA	1:10:A:GLY:C	1:11:A:ASP:N	12	2.67
(1,163)	1:70:A:LYS:N	1:70:A:LYS:CA	1:70:A:LYS:C	1:71:A:HIS:N	17	2.35
(1,360)	1:85:A:GLY:N	1:85:A:GLY:CA	1:85:A:GLY:C	1:86:A:ASN:N	5	2.18
(1,358)	1:41:A:GLY:N	1:41:A:GLY:CA	1:41:A:GLY:C	1:42:A:LEU:N	1	2.17
(1,123)	1:52:A:ASP:N	1:52:A:ASP:CA	1:52:A:ASP:C	1:53:A:ASN:N	11	2.09
(1,359)	1:56:A:GLY:N	1:56:A:GLY:CA	1:56:A:GLY:C	1:57:A:CYS:N	3	2.04
(1,357)	1:10:A:GLY:N	1:10:A:GLY:CA	1:10:A:GLY:C	1:11:A:ASP:N	19	2.03
(1,358)	1:41:A:GLY:N	1:41:A:GLY:CA	1:41:A:GLY:C	1:42:A:LEU:N	8	1.91
(1,98)	1:42:A:LEU:N	1:42:A:LEU:CA	1:42:A:LEU:C	1:43:A:HIS:N	14	1.89
(1,361)	1:108:A:GLY:N	1:108:A:GLY:CA	1:108:A:GLY:C	1:109:A:ASP:N	8	1.77
(1,178)	1:77:A:GLU:N	1:77:A:GLU:CA	1:77:A:GLU:C	1:78:A:GLU:N	18	1.76
(1,361)	1:108:A:GLY:N	1:108:A:GLY:CA	1:108:A:GLY:C	1:109:A:ASP:N	9	1.75
(1,361)	1:108:A:GLY:N	1:108:A:GLY:CA	1:108:A:GLY:C	1:109:A:ASP:N	16	1.73
(1,256)	1:111:A:SER:N	1:111:A:SER:CA	1:111:A:SER:C	1:112:A:ILE:N	7	1.69
(1,55)	1:23:A:LYS:N	1:23:A:LYS:CA	1:23:A:LYS:C	1:24:A:GLU:N	4	1.69
(1,359)	1:56:A:GLY:N	1:56:A:GLY:CA	1:56:A:GLY:C	1:57:A:CYS:N	19	1.65
(1,361)	1:108:A:GLY:N	1:108:A:GLY:CA	1:108:A:GLY:C	1:109:A:ASP:N	19	1.63
(1,98)	1:42:A:LEU:N	1:42:A:LEU:CA	1:42:A:LEU:C	1:43:A:HIS:N	10	1.63
(1,208)	1:90:A:ASP:N	1:90:A:ASP:CA	1:90:A:ASP:C	1:91:A:LYS:N	13	1.55
(1,163)	1:70:A:LYS:N	1:70:A:LYS:CA	1:70:A:LYS:C	1:71:A:HIS:N	9	1.53
(1,359)	1:56:A:GLY:N	1:56:A:GLY:CA	1:56:A:GLY:C	1:57:A:CYS:N	16	1.48
(1,358)	1:41:A:GLY:N	1:41:A:GLY:CA	1:41:A:GLY:C	1:42:A:LEU:N	11	1.47
(1,361)	1:108:A:GLY:N	1:108:A:GLY:CA	1:108:A:GLY:C	1:109:A:ASP:N	1	1.46
(1,363)	1:150:A:GLY:N	1:150:A:GLY:CA	1:150:A:GLY:C	1:151:A:ILE:N	17	1.37
(1,357)	1:10:A:GLY:N	1:10:A:GLY:CA	1:10:A:GLY:C	1:11:A:ASP:N	16	1.34
(1,251)	1:109:A:ASP:N	1:109:A:ASP:CA	1:109:A:ASP:C	1:110:A:HIS:N	18	1.33
(1,121)	1:50:A:PHE:C	1:51:A:GLY:N	1:51:A:GLY:CA	1:51:A:GLY:C	10	1.33
(1,98)	1:42:A:LEU:N	1:42:A:LEU:CA	1:42:A:LEU:C	1:43:A:HIS:N	2	1.33
(1,98)	1:42:A:LEU:N	1:42:A:LEU:CA	1:42:A:LEU:C	1:43:A:HIS:N	4	1.33
(1,157)	1:68:A:SER:N	1:68:A:SER:CA	1:68:A:SER:C	1:69:A:ARG:N	11	1.3
(1,290)	1:124:A:ASP:N	1:124:A:ASP:CA	1:124:A:ASP:C	1:125:A:ASP:N	17	1.26
(1,157)	1:68:A:SER:N	1:68:A:SER:CA	1:68:A:SER:C	1:69:A:ARG:N	12	1.26
(1,251)	1:109:A:ASP:N	1:109:A:ASP:CA	1:109:A:ASP:C	1:110:A:HIS:N	8	1.22
(1,175)	1:76:A:ASP:N	1:76:A:ASP:CA	1:76:A:ASP:C	1:77:A:GLU:N	3	1.2

Continued on next page...

Continued from previous page...

Key	Atom-1	Atom-2	Atom-3	Atom-4	Model ID	Violation (°)
(1,98)	1:42:A:LEU:N	1:42:A:LEU:CA	1:42:A:LEU:C	1:43:A:HIS:N	17	1.18
(1,358)	1:41:A:GLY:N	1:41:A:GLY:CA	1:41:A:GLY:C	1:42:A:LEU:N	15	1.13
(1,361)	1:108:A:GLY:N	1:108:A:GLY:CA	1:108:A:GLY:C	1:109:A:ASP:N	15	1.12
(1,163)	1:70:A:LYS:N	1:70:A:LYS:CA	1:70:A:LYS:C	1:71:A:HIS:N	7	1.04
(1,363)	1:150:A:GLY:N	1:150:A:GLY:CA	1:150:A:GLY:C	1:151:A:ILE:N	6	1.03