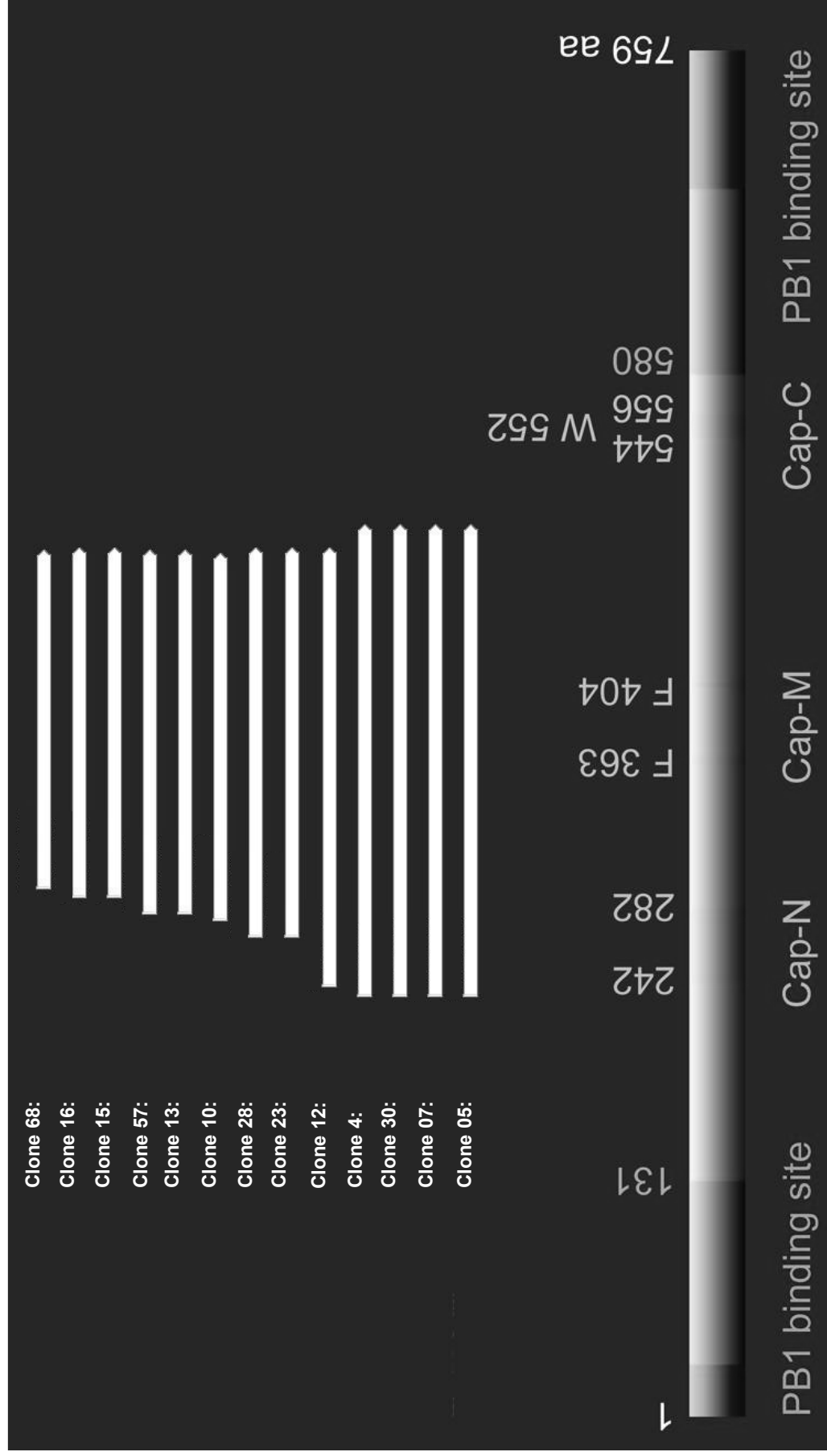


Figure 1



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Figure 2

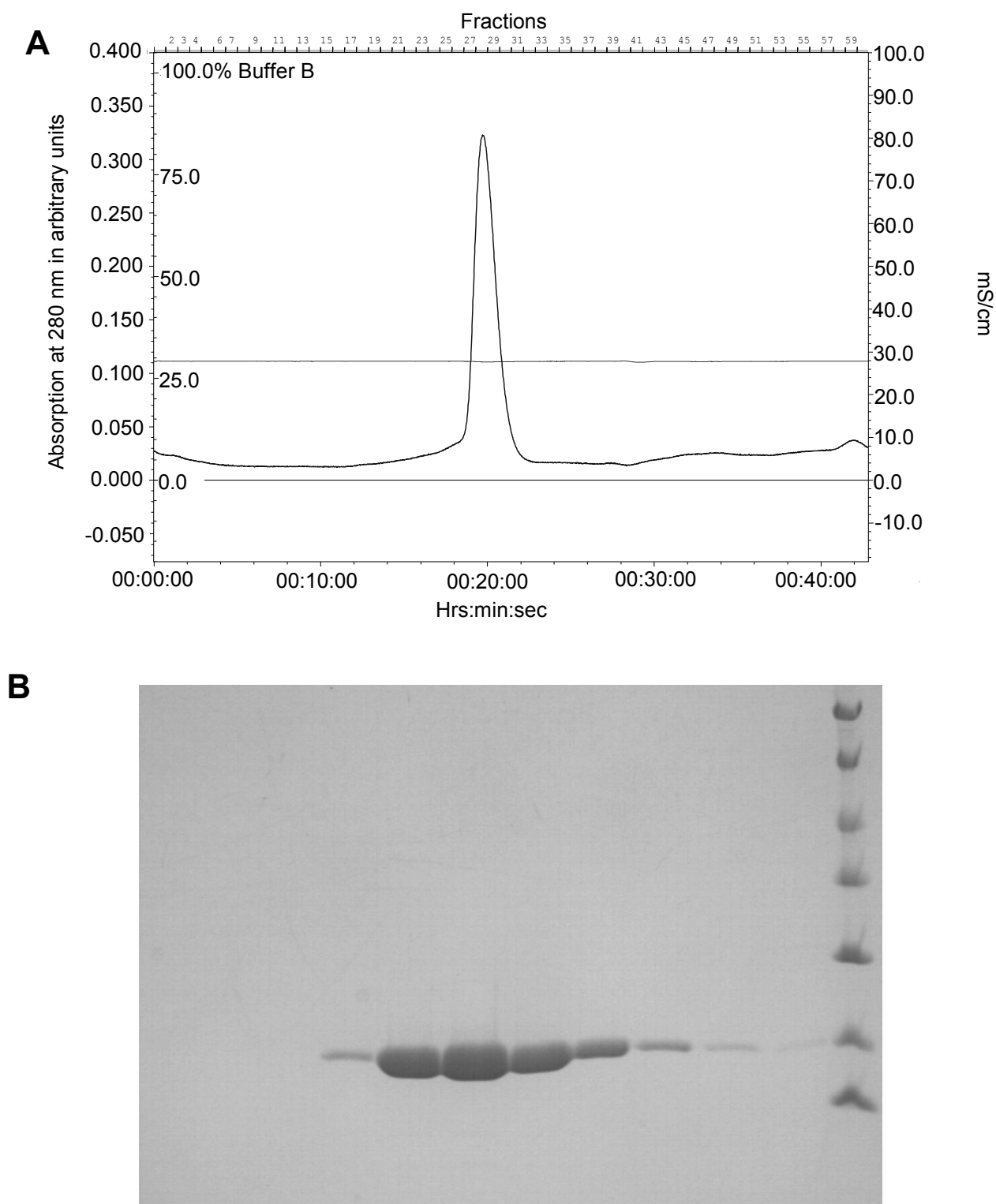
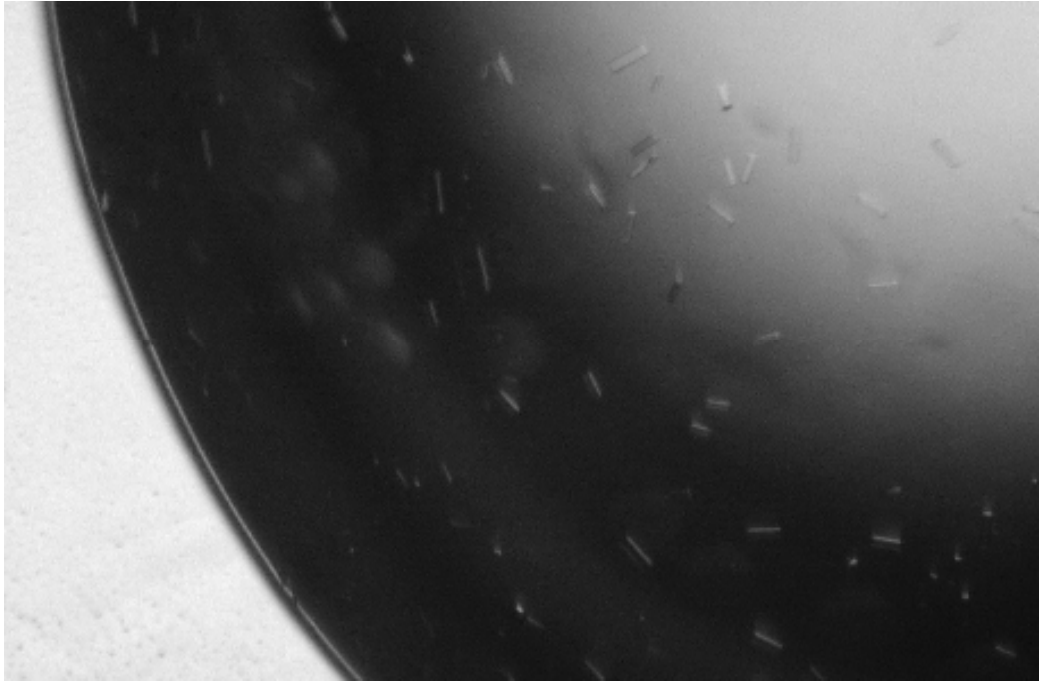


Figure 3

A



B

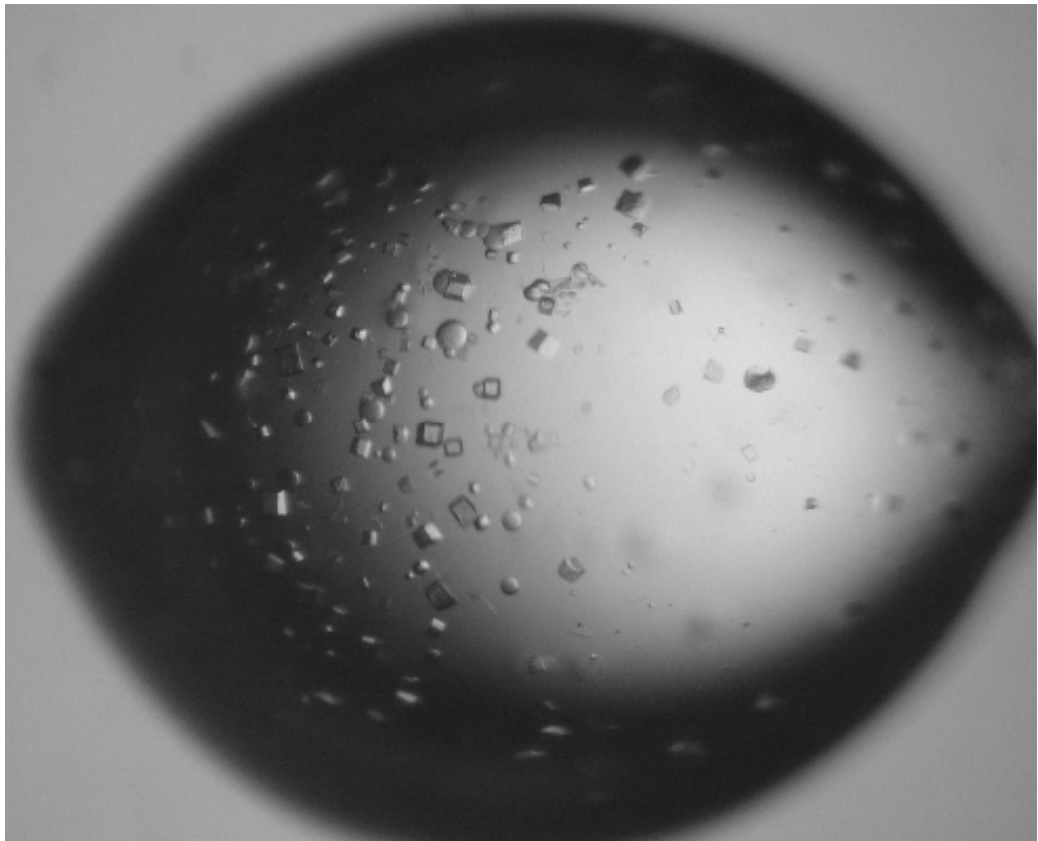


Figure 4

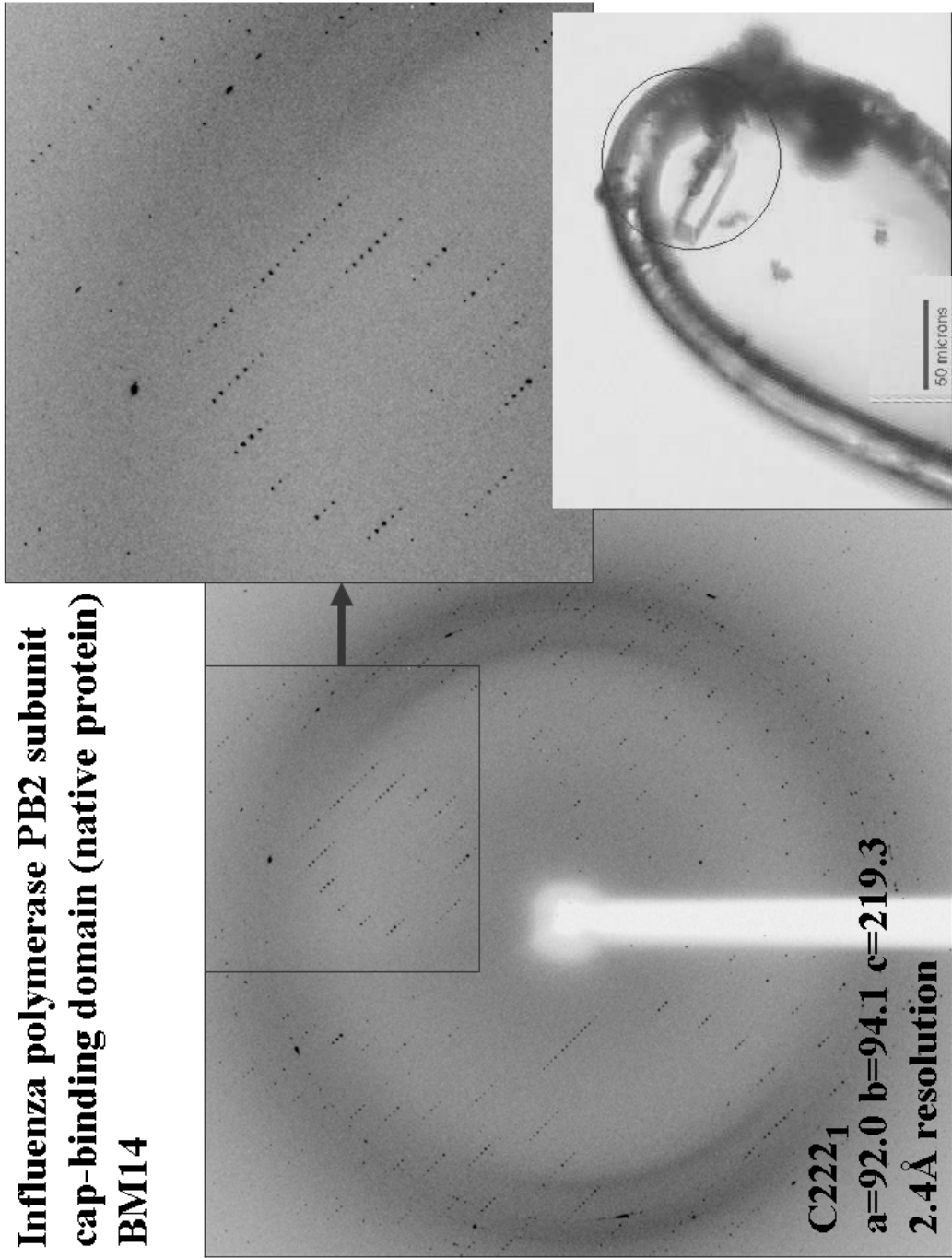


Figure 5

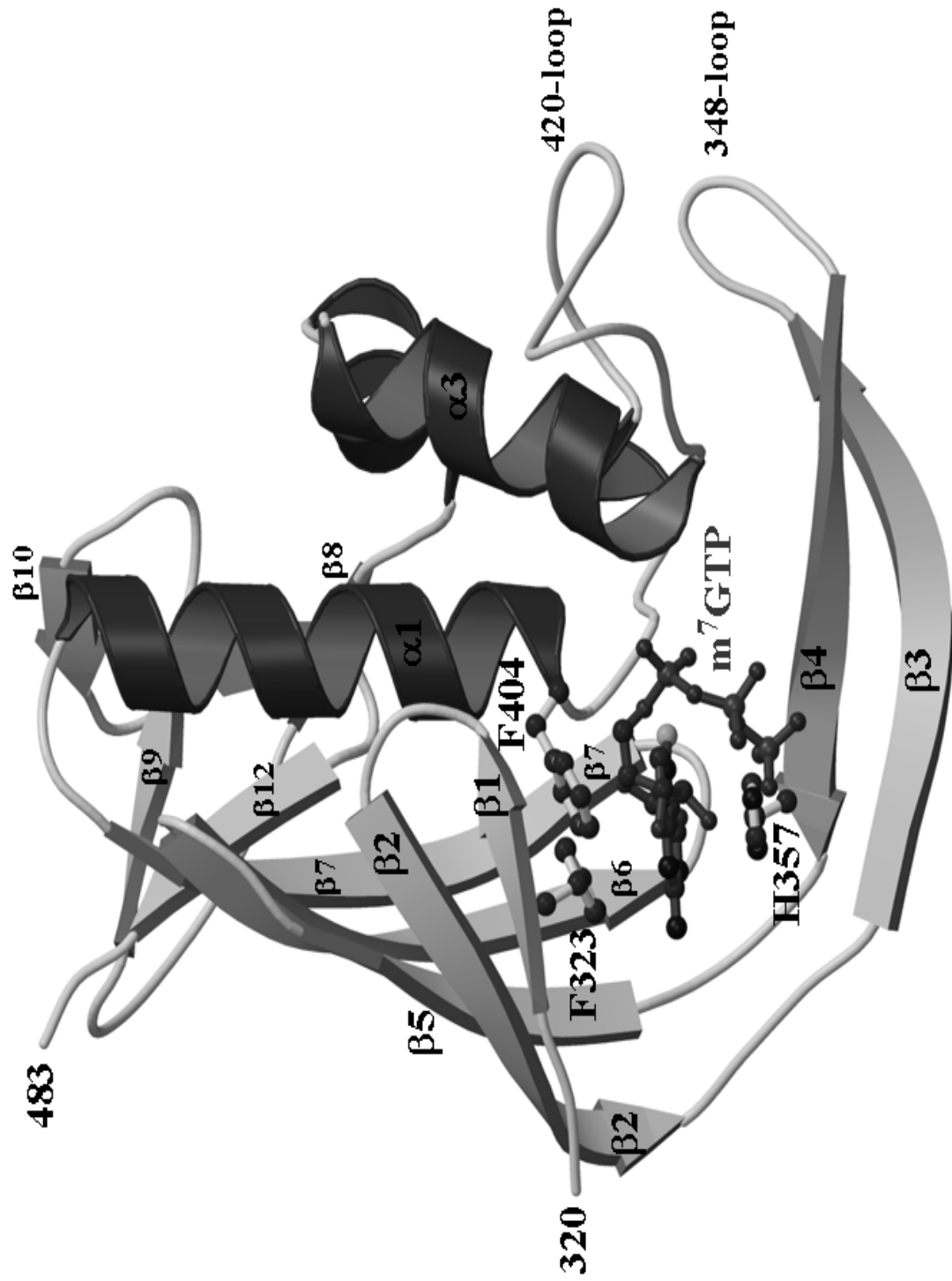


Figure 6

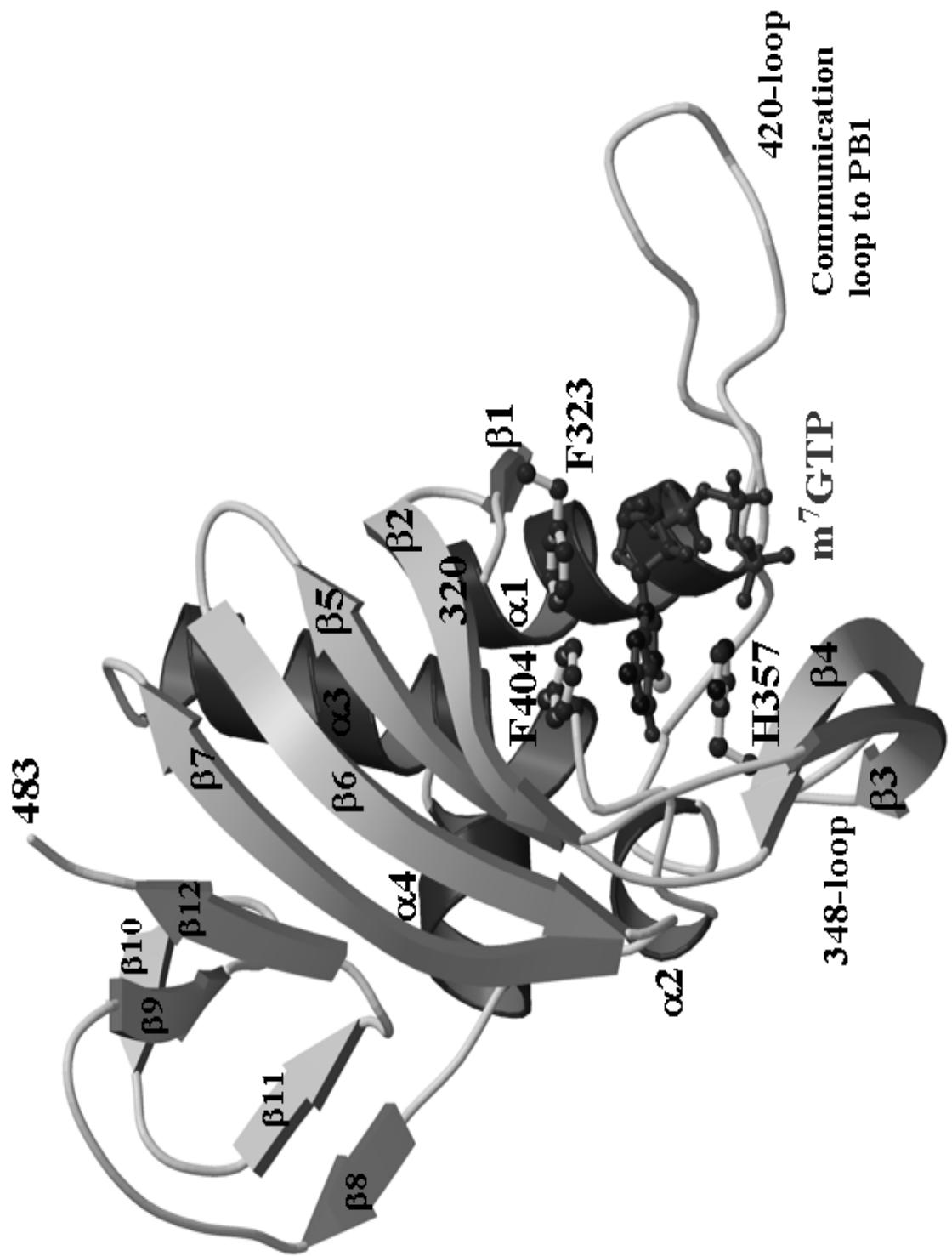


Figure 7

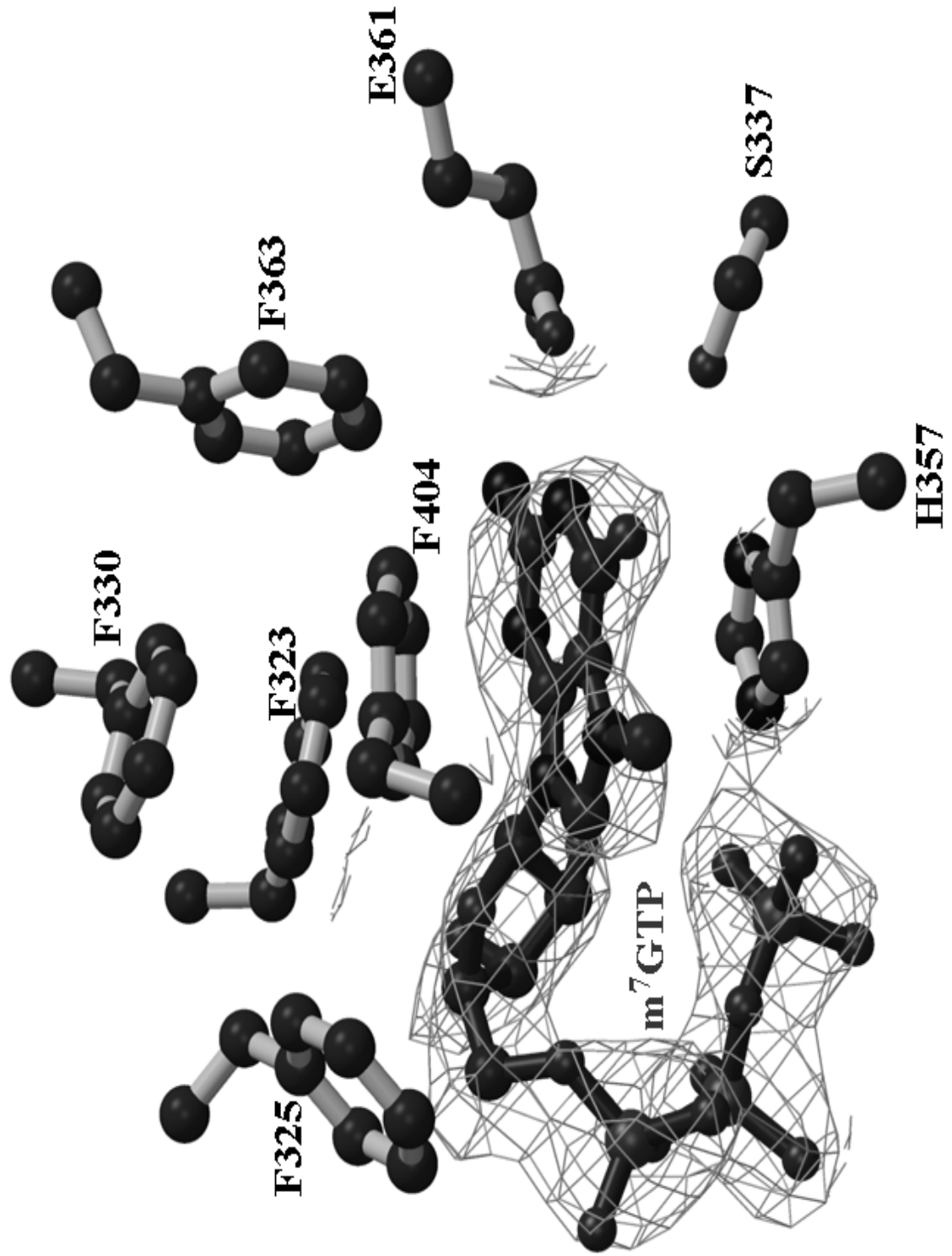


Figure 8

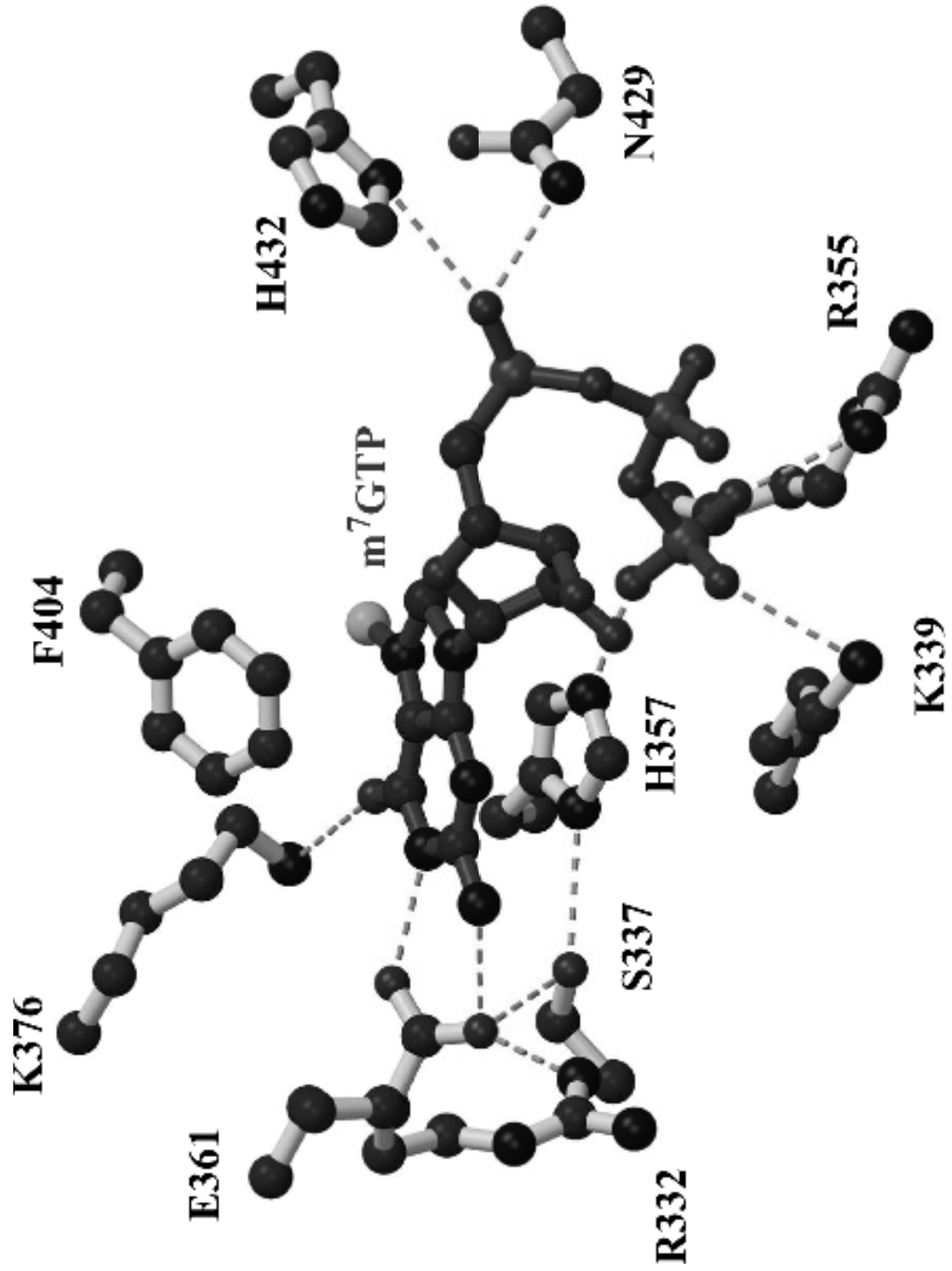


Figure 9

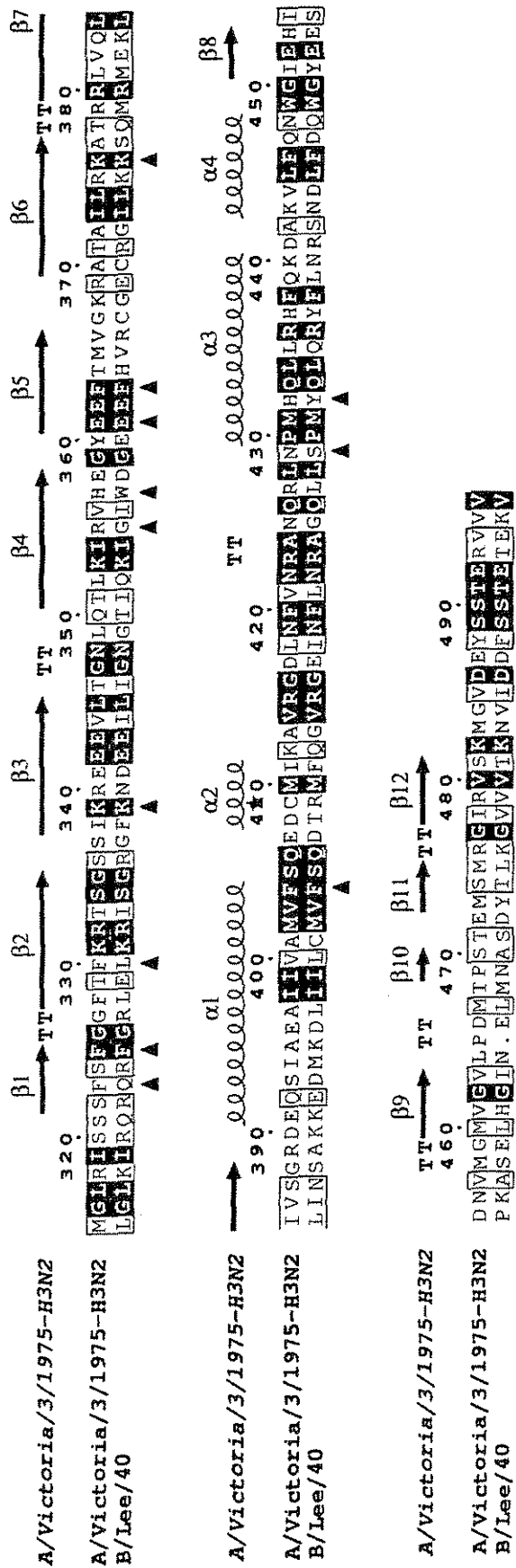


Figure 10

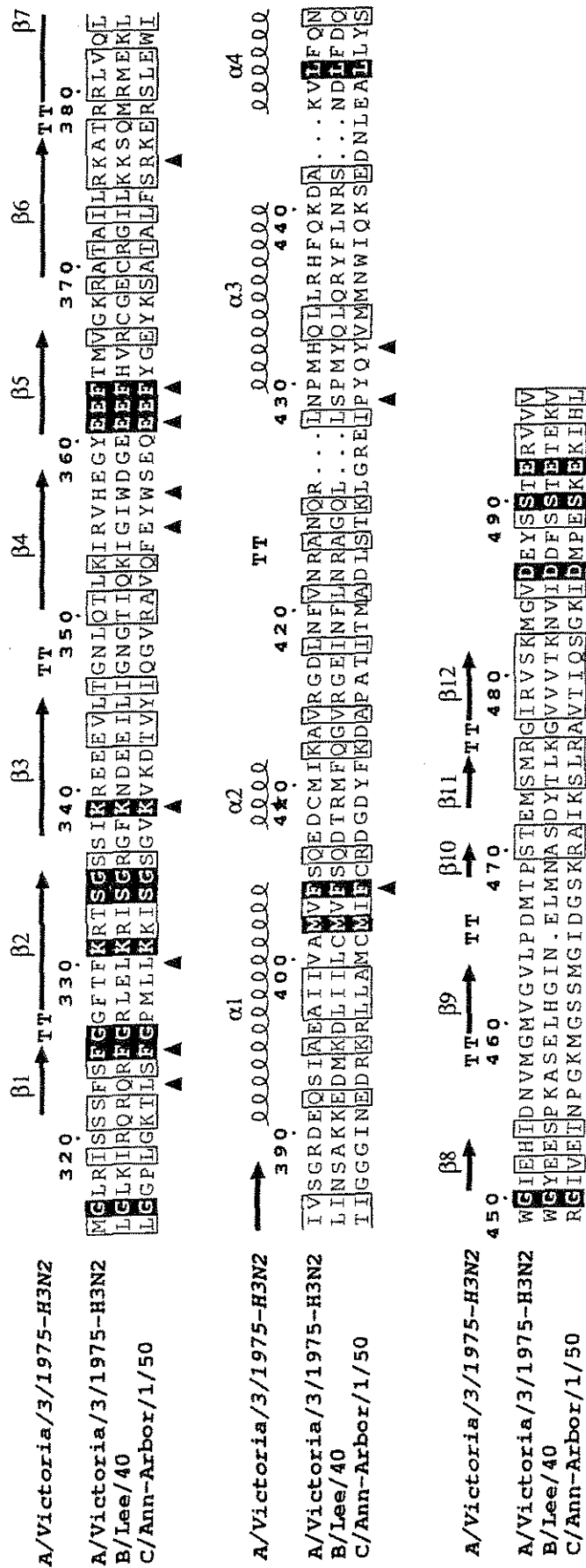


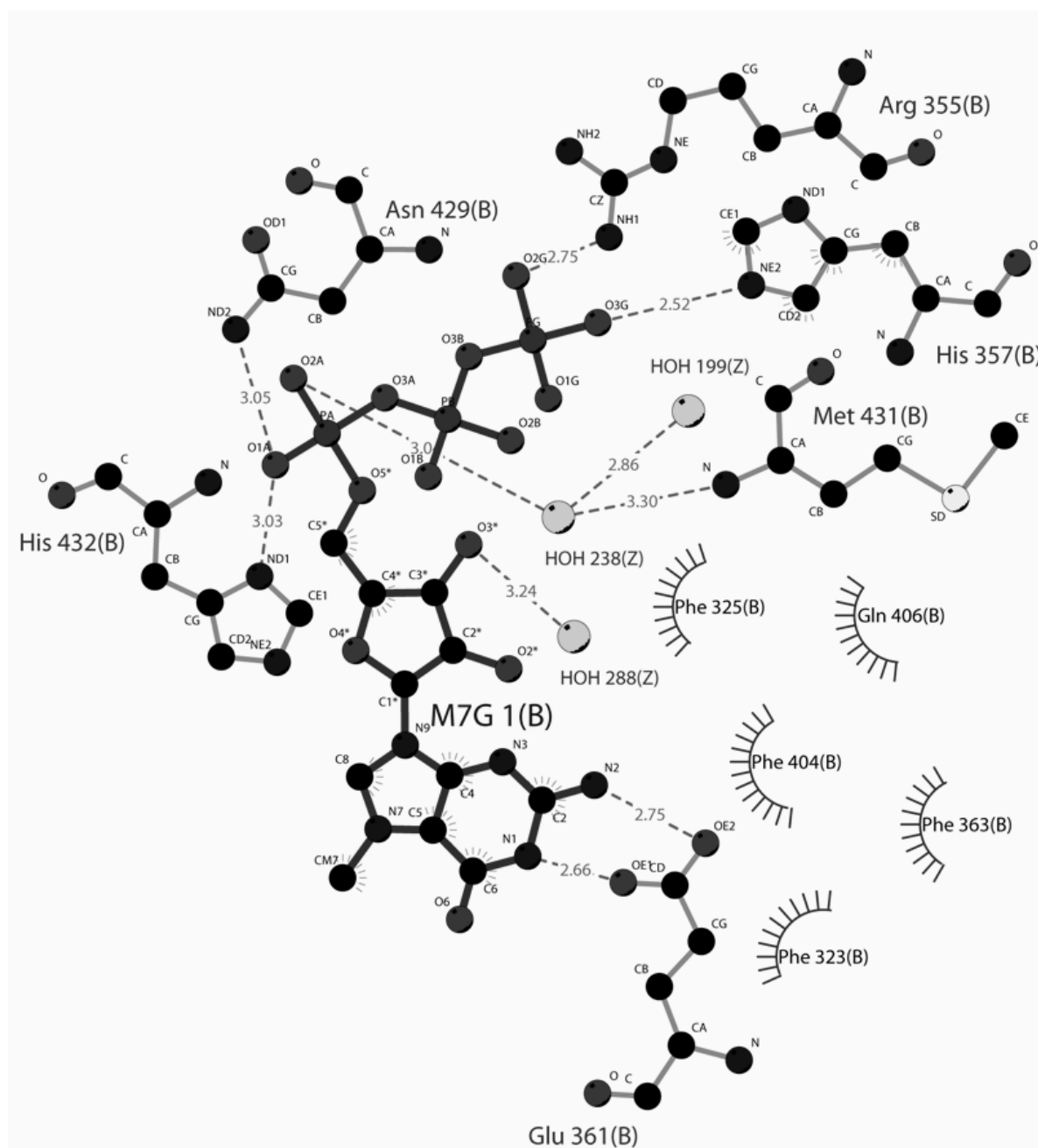
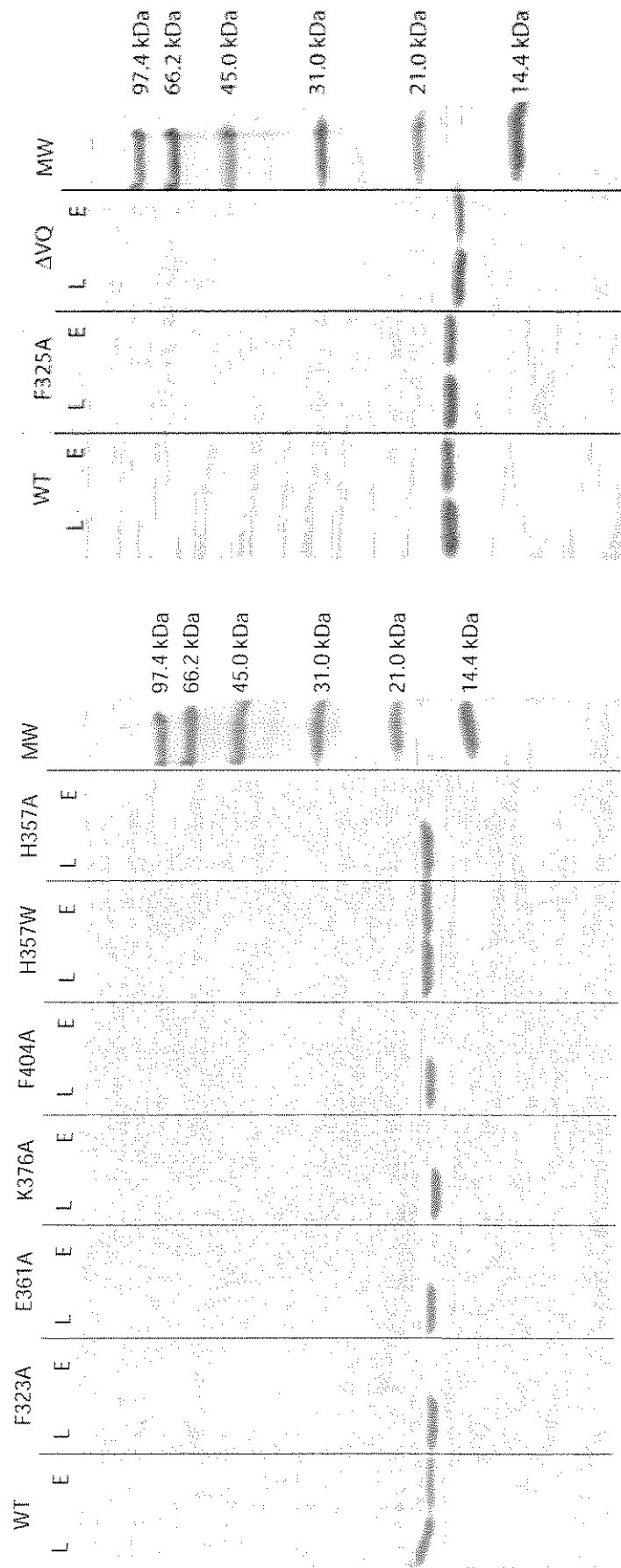
Figure 11

Figure 12



L= Loaded fractions, E= Eluted fractions

Figure 13

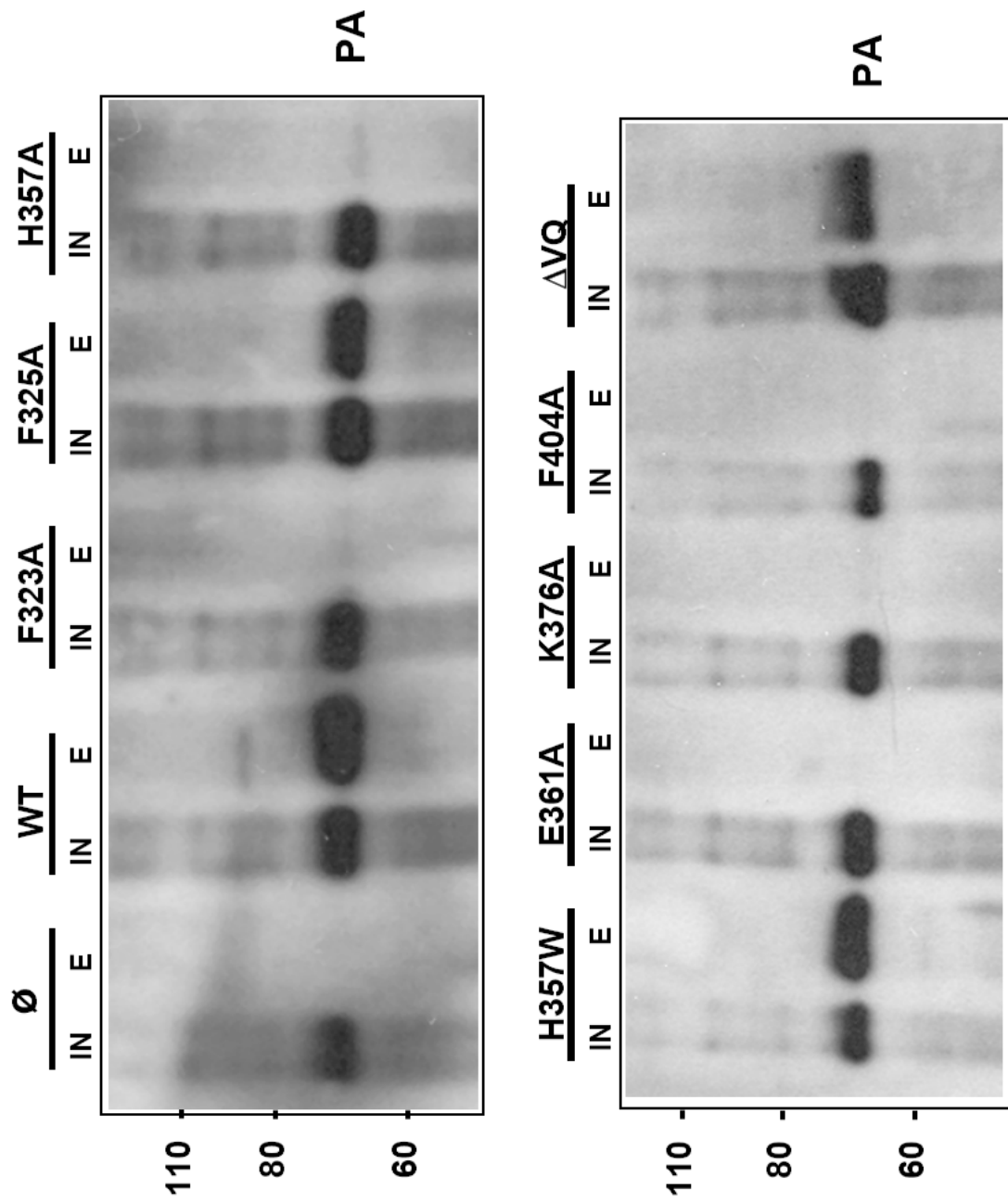


Figure 14

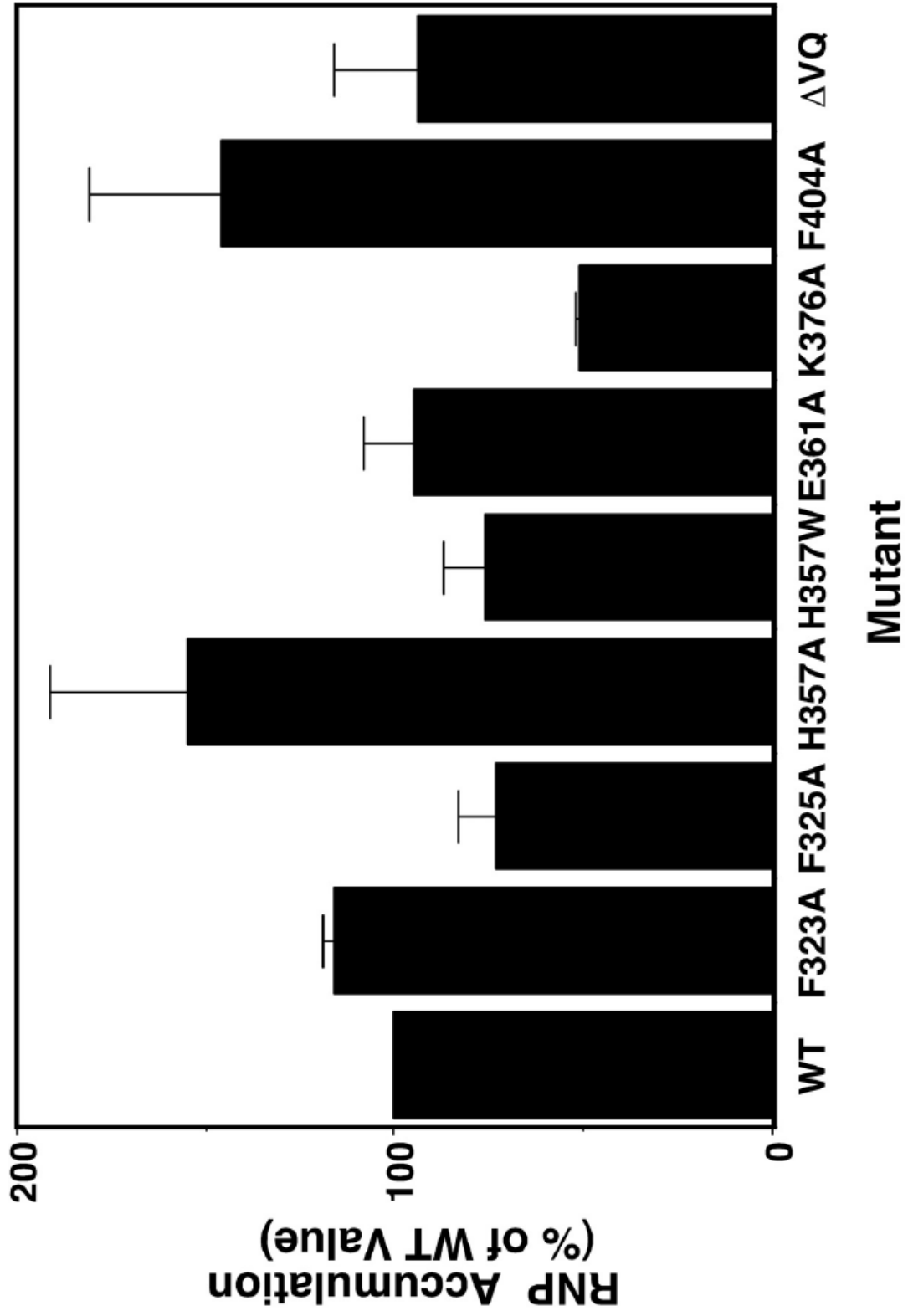


Figure 15

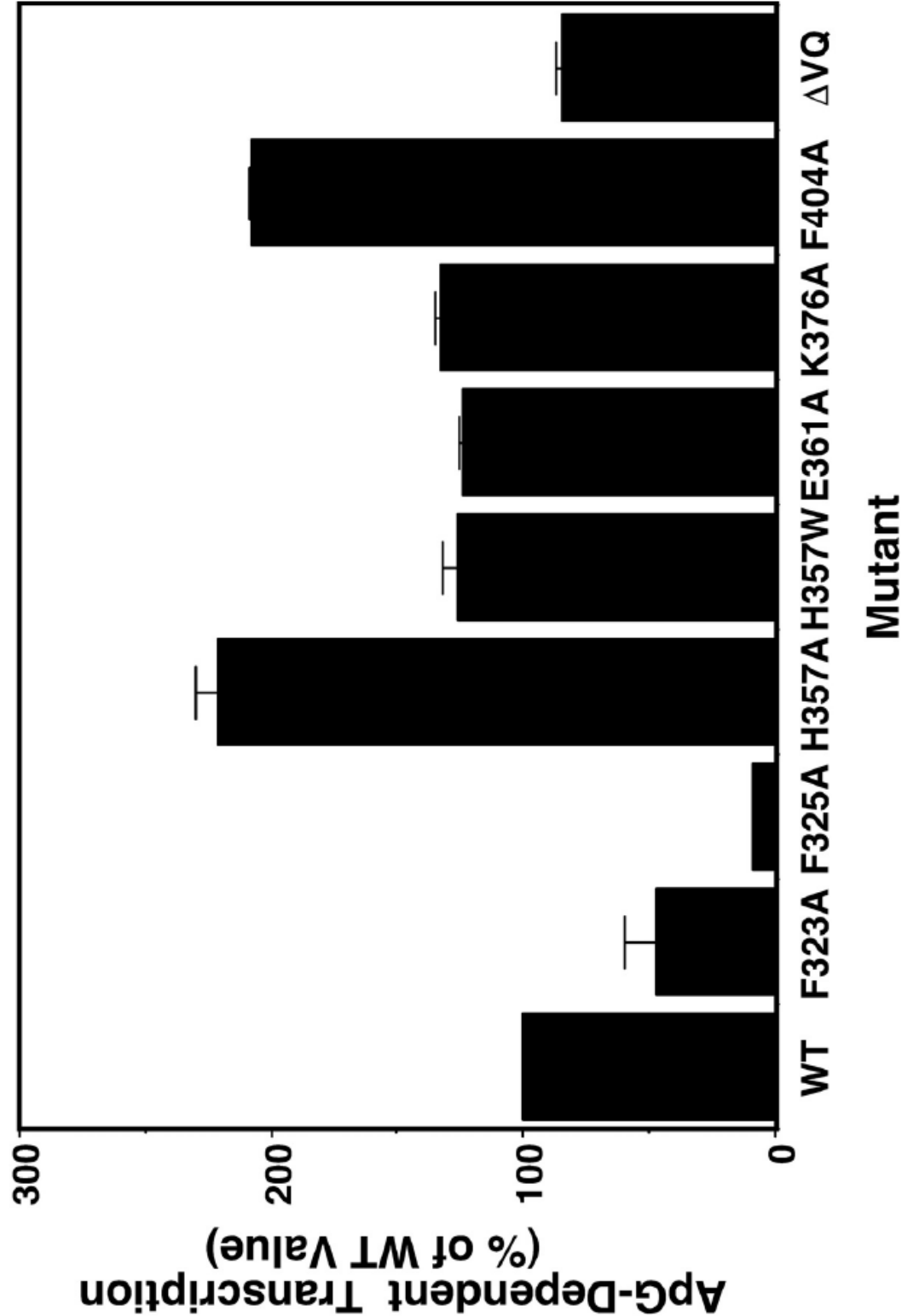


Figure 16

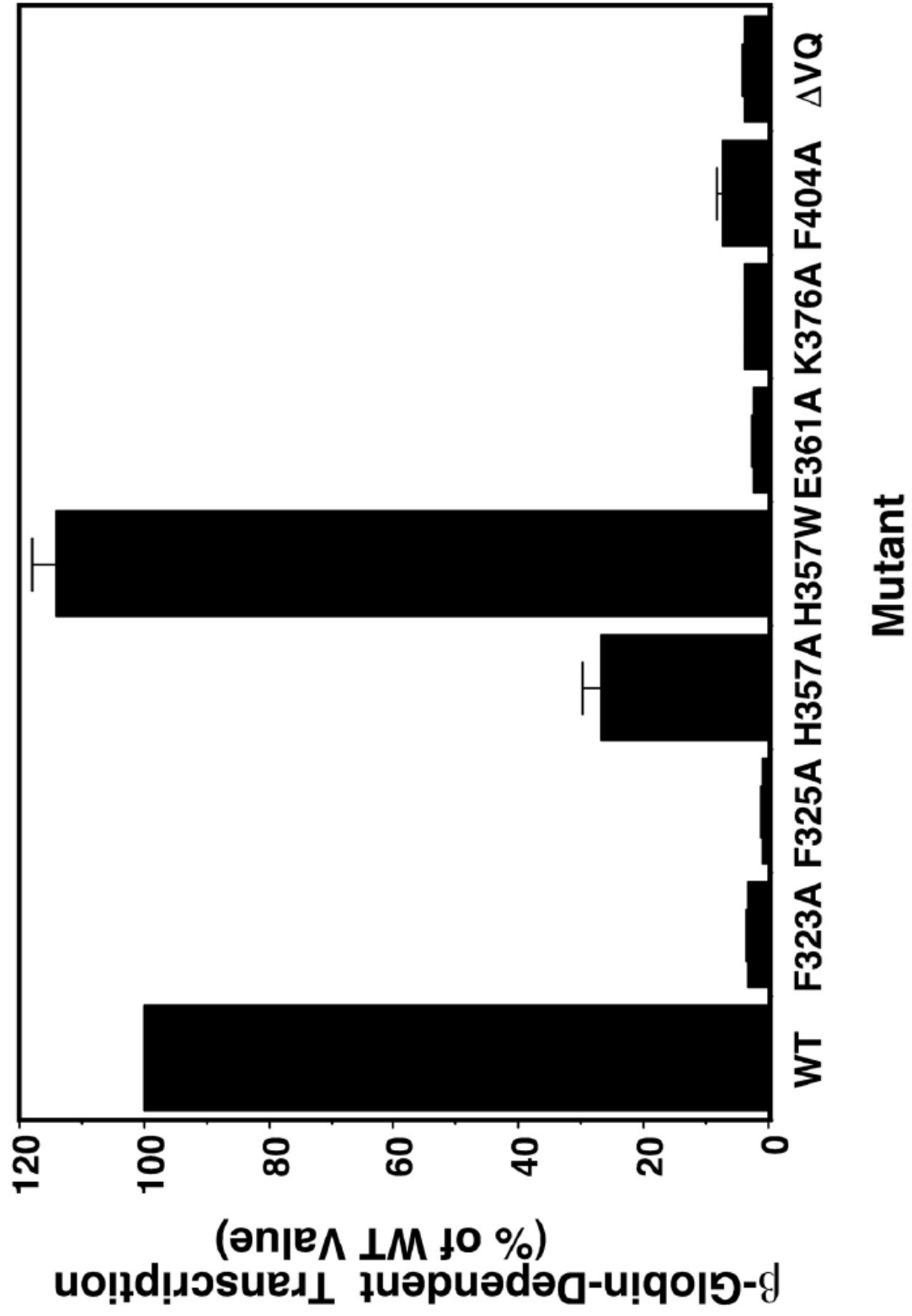


Figure 17

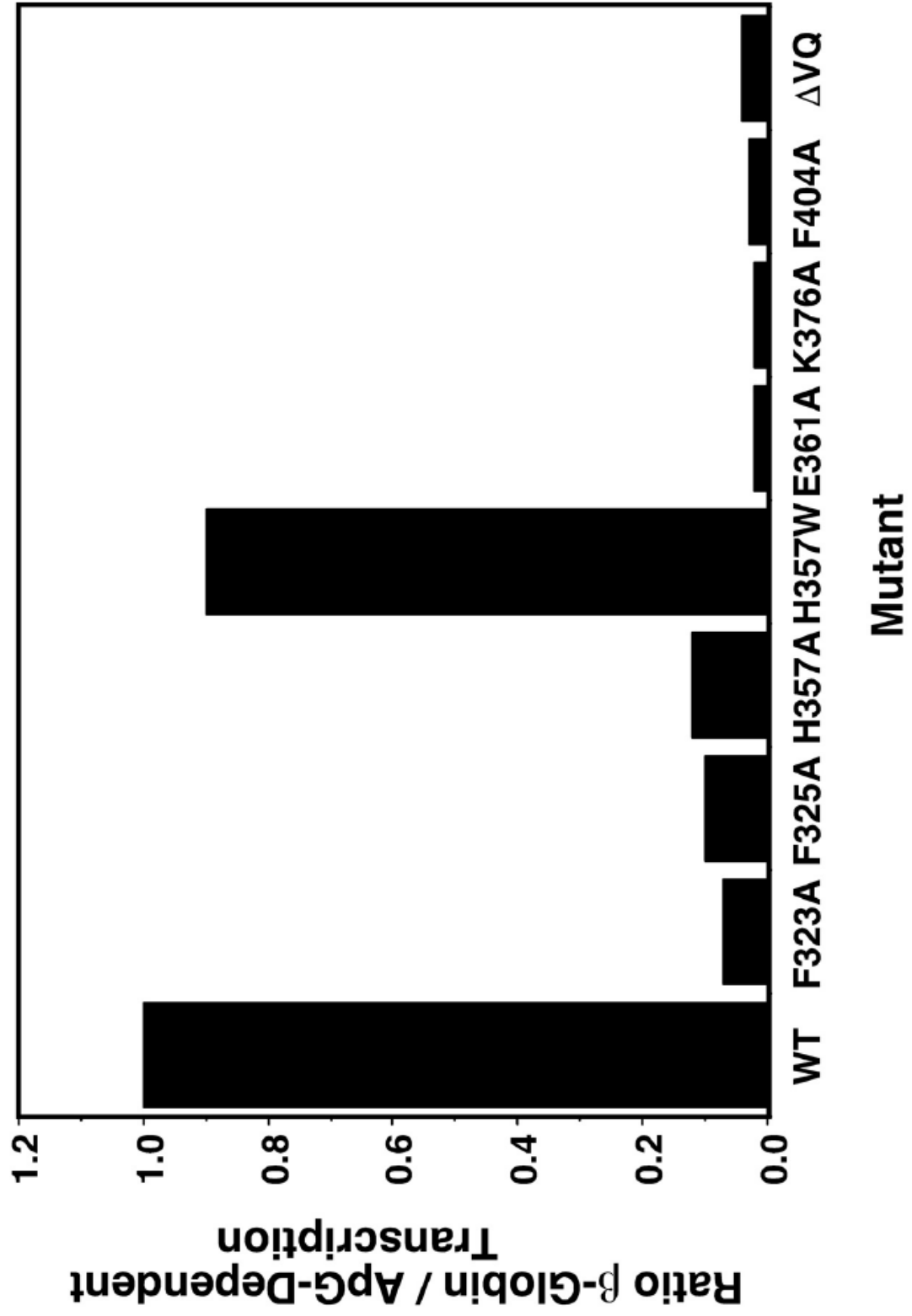


Figure 18

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HEADER      ----                      XX-XXX-XX   xxxx
COMPND      --REMARK    3
REMARK      3 REFINEMENT.
REMARK      3   PROGRAM      : REFMAC 5.2.0019
REMARK      3   AUTHORS      : MURSHUDOV,VAGIN,DODSON
REMARK      3
REMARK      3   REFINEMENT TARGET : MAXIMUM LIKELIHOOD
REMARK      3
REMARK      3 DATA USED IN REFINEMENT.
REMARK      3 RESOLUTION RANGE HIGH (ANGSTROMS) : 2.30
REMARK      3 RESOLUTION RANGE LOW (ANGSTROMS) : 29.53
REMARK      3 DATA CUTOFF (SIGMA(F)) : NONE
REMARK      3 COMPLETENESS FOR RANGE (%) : 99.65
REMARK      3 NUMBER OF REFLECTIONS : 40781
REMARK      3
REMARK      3 FIT TO DATA USED IN REFINEMENT.
REMARK      3 CROSS-VALIDATION METHOD : THROUGHOUT
REMARK      3 FREE R VALUE TEST SET SELECTION : RANDOM
REMARK      3 R VALUE (WORKING + TEST SET) : 0.18859
REMARK      3 R VALUE (WORKING SET) : 0.18611
REMARK      3 FREE R VALUE : 0.23465
REMARK      3 FREE R VALUE TEST SET SIZE (%) : 5.0
REMARK      3 FREE R VALUE TEST SET COUNT : 2165
REMARK      3
REMARK      3 FIT IN THE HIGHEST RESOLUTION BIN.
REMARK      3 TOTAL NUMBER OF BINS USED : 20
REMARK      3 BIN RESOLUTION RANGE HIGH : 2.300
REMARK      3 BIN RESOLUTION RANGE LOW : 2.360
REMARK      3 REFLECTION IN BIN (WORKING SET) : 2984
REMARK      3 BIN COMPLETENESS (WORKING+TEST) (%) : 98.55
REMARK      3 BIN R VALUE (WORKING SET) : 0.250
REMARK      3 BIN FREE R VALUE SET COUNT : 148
REMARK      3 BIN FREE R VALUE : 0.312
REMARK      3
REMARK      3 NUMBER OF NON-HYDROGEN ATOMS USED IN REFINEMENT.
REMARK      3 ALL ATOMS : 6926
REMARK      3
REMARK      3 B VALUES.
REMARK      3 FROM WILSON PLOT (A**2) : NULL
REMARK      3 MEAN B VALUE (OVERALL, A**2) : 32.465
REMARK      3 OVERALL ANISOTROPIC B VALUE.
REMARK      3 B11 (A**2) : 0.44
REMARK      3 B22 (A**2) : 0.68
REMARK      3 B33 (A**2) : -1.12
REMARK      3 B12 (A**2) : 0.00
REMARK      3 B13 (A**2) : 0.00
REMARK      3 B23 (A**2) : 0.00
REMARK      3
REMARK      3 ESTIMATED OVERALL COORDINATE ERROR.
REMARK      3 ESU BASED ON R VALUE (A) : 0.317
REMARK      3 ESU BASED ON FREE R VALUE (A) : 0.227
REMARK      3 ESU BASED ON MAXIMUM LIKELIHOOD (A) : 0.160
REMARK      3 ESU FOR B VALUES BASED ON MAXIMUM LIKELIHOOD (A**2) : 13.245
REMARK      3
REMARK      3 CORRELATION COEFFICIENTS.
REMARK      3 CORRELATION COEFFICIENT FO-FC : 0.946
REMARK      3 CORRELATION COEFFICIENT FO-FC FREE : 0.920
REMARK      3
REMARK      3 RMS DEVIATIONS FROM IDEAL VALUES COUNT RMS WEIGHT
REMARK      3 BOND LENGTHS REFINED ATOMS (A) : 6764 ; 0.013 ; 0.022
REMARK      3 BOND ANGLES REFINED ATOMS (DEGREES) : 9116 ; 1.519 ; 1.987
REMARK      3 TORSION ANGLES, PERIOD 1 (DEGREES) : 823 ; 6.267 ; 5.000
REMARK      3 TORSION ANGLES, PERIOD 2 (DEGREES) : 297 ; 35.379 ; 23.199
REMARK      3 TORSION ANGLES, PERIOD 3 (DEGREES) : 1291 ; 16.121 ; 15.000
REMARK      3 TORSION ANGLES, PERIOD 4 (DEGREES) : 62 ; 18.647 ; 15.000
REMARK      3 CHIRAL-CENTER RESTRAINTS (A**3) : 1027 ; 0.093 ; 0.200
REMARK      3 GENERAL PLANES REFINED ATOMS (A) : 4923 ; 0.005 ; 0.020

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Figure 18 (continued)

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REMARK 3 NON-BONDED CONTACTS REFINED ATOMS (A): 2631 ; 0.200 ; 0.200
REMARK 3 NON-BONDED TORSION REFINED ATOMS (A): 4496 ; 0.292 ; 0.200
REMARK 3 H-BOND (X...Y) REFINED ATOMS (A): 321 ; 0.173 ; 0.200
REMARK 3 SYMMETRY VDW REFINED ATOMS (A): 124 ; 0.333 ; 0.200
REMARK 3 SYMMETRY H-BOND REFINED ATOMS (A): 17 ; 0.205 ; 0.200
REMARK 3
REMARK 3 ISOTROPIC THERMAL FACTOR RESTRAINTS. COUNT RMS WEIGHT
REMARK 3 MAIN-CHAIN BOND REFINED ATOMS (A**2): 4221 ; 0.728 ; 1.500
REMARK 3 MAIN-CHAIN ANGLE REFINED ATOMS (A**2): 6577 ; 1.124 ; 2.000
REMARK 3 SIDE-CHAIN BOND REFINED ATOMS (A**2): 2920 ; 2.095 ; 3.000
REMARK 3 SIDE-CHAIN ANGLE REFINED ATOMS (A**2): 2539 ; 3.232 ; 4.500
REMARK 3
REMARK 3 NCS RESTRAINTS STATISTICS
REMARK 3 NUMBER OF DIFFERENT NCS GROUPS : 1
REMARK 3
REMARK 3 NCS GROUP NUMBER : 1
REMARK 3 CHAIN NAMES : B D E A
REMARK 3 NUMBER OF COMPONENTS NCS GROUP : 9
REMARK 3 COMPONENT C SSSEQI TO C SSSEQI CODE
REMARK 3 1 B 323 B 330 1
REMARK 3 1 D 323 D 330 1
REMARK 3 1 E 323 E 330 1
REMARK 3 1 A 323 A 330 1
REMARK 3 2 B 333 B 340 1
REMARK 3 2 D 333 D 340 1
REMARK 3 2 E 333 E 340 1
REMARK 3 2 A 333 A 340 1
REMARK 3 3 B 350 B 368 1
REMARK 3 3 D 350 D 368 1
REMARK 3 3 E 350 E 368 1
REMARK 3 3 A 350 A 368 1
REMARK 3 4 B 370 B 389 1
REMARK 3 4 D 370 D 389 1
REMARK 3 4 E 370 E 389 1
REMARK 3 4 A 370 A 389 1
REMARK 3 5 B 393 B 407 1
REMARK 3 5 D 393 D 407 1
REMARK 3 5 E 393 E 407 1
REMARK 3 5 A 393 A 407 1
REMARK 3 6 B 411 B 420 1
REMARK 3 6 D 411 D 420 1
REMARK 3 6 E 411 E 420 1
REMARK 3 6 A 411 A 420 1
REMARK 3 7 B 428 B 434 1
REMARK 3 7 D 428 D 434 1
REMARK 3 7 E 428 E 434 1
REMARK 3 7 A 428 A 434 1
REMARK 3 8 B 443 B 451 1
REMARK 3 8 D 443 D 451 1
REMARK 3 8 E 443 E 451 1
REMARK 3 8 A 443 A 451 1
REMARK 3 9 B 455 B 482 1
REMARK 3 9 D 455 D 482 1
REMARK 3 9 E 455 E 482 1
REMARK 3 9 A 455 A 482 1
REMARK 3
REMARK 3 GROUP CHAIN COUNT RMS WEIGHT
REMARK 3 TIGHT POSITIONAL 1 B (A): 965 ; 0.05 ; 0.05
REMARK 3 TIGHT POSITIONAL 1 D (A): 965 ; 0.04 ; 0.05
REMARK 3 TIGHT POSITIONAL 1 E (A): 965 ; 0.05 ; 0.05
REMARK 3 TIGHT POSITIONAL 1 A (A): 965 ; 0.06 ; 0.05
REMARK 3 TIGHT THERMAL 1 B (A**2): 965 ; 1.46 ; 5.00
REMARK 3 TIGHT THERMAL 1 D (A**2): 965 ; 1.42 ; 5.00
REMARK 3 TIGHT THERMAL 1 E (A**2): 965 ; 1.17 ; 5.00
REMARK 3 TIGHT THERMAL 1 A (A**2): 965 ; 1.46 ; 5.00
REMARK 3
REMARK 3
REMARK 3 TLS DETAILS
REMARK 3 NUMBER OF TLS GROUPS : 5
REMARK 3 ATOM RECORD CONTAINS SUM OF TLS AND RESIDUAL B FACTORS
REMARK 3 ANISOU RECORD CONTAINS SUM OF TLS AND RESIDUAL U FACTORS
REMARK 3

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Figure 18 (continued)

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REMARK 3 TLS GROUP : 1
REMARK 3 NUMBER OF COMPONENTS GROUP : 2
REMARK 3 COMPONENTS C SSSEQI TO C SSSEQI
REMARK 3 RESIDUE RANGE : A 320 A 483
REMARK 3 RESIDUE RANGE : A 1 A 1
REMARK 3 ORIGIN FOR THE GROUP (A): 35.1410 19.8550 -23.4970
REMARK 3 T TENSOR
REMARK 3 T11: -0.1550 T22: -0.1929
REMARK 3 T33: -0.1067 T12: 0.0176
REMARK 3 T13: -0.0298 T23: 0.0184
REMARK 3 L TENSOR
REMARK 3 L11: 2.3533 L22: 1.7075
REMARK 3 L33: 2.2571 L12: 0.0348
REMARK 3 L13: -0.0773 L23: 0.5035
REMARK 3 S TENSOR
REMARK 3 S11: 0.0055 S12: 0.1725 S13: 0.1938
REMARK 3 S21: -0.0821 S22: 0.0154 S23: -0.0549
REMARK 3 S31: 0.0216 S32: 0.1221 S33: -0.0208
REMARK 3
REMARK 3 TLS GROUP : 2
REMARK 3 NUMBER OF COMPONENTS GROUP : 2
REMARK 3 COMPONENTS C SSSEQI TO C SSSEQI
REMARK 3 RESIDUE RANGE : B 320 B 483
REMARK 3 RESIDUE RANGE : B 1 B 1
REMARK 3 ORIGIN FOR THE GROUP (A): 12.4750 -3.5580 -19.4120
REMARK 3 T TENSOR
REMARK 3 T11: -0.1896 T22: -0.1182
REMARK 3 T33: -0.0978 T12: -0.0381
REMARK 3 T13: -0.0171 T23: -0.0637
REMARK 3 L TENSOR
REMARK 3 L11: 1.9172 L22: 2.6126
REMARK 3 L33: 3.6260 L12: 0.0348
REMARK 3 L13: -0.2423 L23: -0.1860
REMARK 3 S TENSOR
REMARK 3 S11: -0.0729 S12: 0.1999 S13: -0.0806
REMARK 3 S21: -0.0771 S22: 0.0269 S23: 0.2153
REMARK 3 S31: 0.1325 S32: -0.3438 S33: 0.0460
REMARK 3
REMARK 3 TLS GROUP : 3
REMARK 3 NUMBER OF COMPONENTS GROUP : 2
REMARK 3 COMPONENTS C SSSEQI TO C SSSEQI
REMARK 3 RESIDUE RANGE : D 319 D 483
REMARK 3 RESIDUE RANGE : D 1 D 1
REMARK 3 ORIGIN FOR THE GROUP (A): 58.8840 -3.4260 -19.4800
REMARK 3 T TENSOR
REMARK 3 T11: -0.2007 T22: -0.1084
REMARK 3 T33: -0.1629 T12: 0.0008
REMARK 3 T13: 0.0350 T23: -0.0105
REMARK 3 L TENSOR
REMARK 3 L11: 2.5312 L22: 3.5830
REMARK 3 L33: 2.7686 L12: -0.2516
REMARK 3 L13: -0.0723 L23: 0.1658
REMARK 3 S TENSOR
REMARK 3 S11: 0.0281 S12: 0.3485 S13: -0.0276
REMARK 3 S21: -0.3438 S22: -0.1013 S23: -0.1815
REMARK 3 S31: 0.0548 S32: -0.1509 S33: 0.0732
REMARK 3
REMARK 3 TLS GROUP : 4
REMARK 3 NUMBER OF COMPONENTS GROUP : 2
REMARK 3 COMPONENTS C SSSEQI TO C SSSEQI
REMARK 3 RESIDUE RANGE : E 320 E 483
REMARK 3 RESIDUE RANGE : E 1 E 1
REMARK 3 ORIGIN FOR THE GROUP (A): 35.6570 -25.9320 -15.2800
REMARK 3 T TENSOR
REMARK 3 T11: -0.0768 T22: -0.2139
REMARK 3 T33: -0.0804 T12: -0.0233
REMARK 3 T13: 0.0636 T23: -0.0476
REMARK 3 L TENSOR
REMARK 3 L11: 3.7194 L22: 2.4929
REMARK 3 L33: 2.9822 L12: 0.6274
REMARK 3 L13: 0.2948 L23: 1.0025

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Figure 18 (continued)

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REMARK 3 S TENSOR
REMARK 3 S11: -0.0484 S12: 0.3196 S13: -0.2371
REMARK 3 S21: -0.1986 S22: 0.0864 S23: -0.0561
REMARK 3 S31: 0.1208 S32: 0.1243 S33: -0.0380
REMARK 3
REMARK 3 TLS GROUP : 5
REMARK 3 NUMBER OF COMPONENTS GROUP : 2
REMARK 3 COMPONENTS C SSSEQUI TO C SSSEQUI
REMARK 3 RESIDUE RANGE : F 322 F 483
REMARK 3 RESIDUE RANGE : F 1 F 1
REMARK 3 ORIGIN FOR THE GROUP (A): 29.6550 -7.6170 -50.4960
REMARK 3 T TENSOR
REMARK 3 T11: 0.0277 T22: 0.2406
REMARK 3 T33: -0.1217 T12: 0.0164
REMARK 3 T13: -0.0146 T23: -0.0766
REMARK 3 L TENSOR
REMARK 3 L11: 2.4339 L22: 4.7601
REMARK 3 L33: 4.8718 L12: 0.4947
REMARK 3 L13: -0.0699 L23: 1.5231
REMARK 3 S TENSOR
REMARK 3 S11: -0.0489 S12: 0.5805 S13: -0.1649
REMARK 3 S21: -0.2269 S22: 0.0375 S23: -0.0293
REMARK 3 S31: 0.2872 S32: 0.3181 S33: 0.0114
REMARK 3
REMARK 3 BULK SOLVENT MODELLING.
REMARK 3 METHOD USED : MASK
REMARK 3 PARAMETERS FOR MASK CALCULATION
REMARK 3 VDW PROBE RADIUS : 1.40
REMARK 3 ION PROBE RADIUS : 0.80
REMARK 3 SHRINKAGE RADIUS : 0.80
REMARK 3
REMARK 3 OTHER REFINEMENT REMARKS:
REMARK 3 HYDROGENS HAVE BEEN ADDED IN THE RIDING POSITIONS
REMARK 3
LINK VAL B 421 ALA B 424 gap
LINK ASN E 422 ARG E 427 gap
LINK ASN F 422 gap
CRYST1 92.200 94.440 220.400 90.00 90.00 90.00 C 2 2 21
SCALE1 0.010846 0.000000 0.000000 0.000000
SCALE2 0.000000 0.010589 0.000000 0.000000
SCALE3 0.000000 0.000000 0.004537 0.000000
ATOM 1 N SER A 320 54.724 26.969 -16.114 1.00 49.27 N
ANISOU 1 N SER A 320 4119 7020 7581 -643 -576 -957 N
ATOM 2 CA SER A 320 53.387 26.747 -16.772 1.00 47.48 C
ANISOU 2 CA SER A 320 4127 6616 7296 -583 -499 -811 C
ATOM 3 CB SER A 320 52.263 27.451 -15.989 1.00 46.88 C
ANISOU 3 CB SER A 320 4227 6364 7221 -625 -539 -825 C
ATOM 4 OG SER A 320 51.912 26.737 -14.806 1.00 47.95 O
ANISOU 4 OG SER A 320 4428 6550 7242 -485 -673 -881 O
ATOM 5 C SER A 320 53.375 27.229 -18.230 1.00 47.12 C
ANISOU 5 C SER A 320 4085 6503 7314 -693 -330 -697 C
ATOM 6 O SER A 320 54.163 28.116 -18.614 1.00 48.38 O
ANISOU 6 O SER A 320 4111 6684 7588 -870 -256 -724 O
ATOM 7 N SER A 321 52.500 26.617 -19.034 1.00 44.78 N
ANISOU 7 N SER A 321 3940 6137 6937 -592 -270 -571 N
ATOM 8 CA SER A 321 52.188 27.123 -20.378 1.00 43.99 C
ANISOU 8 CA SER A 321 3899 5951 6864 -686 -122 -442 C
ATOM 9 CB SER A 321 52.645 26.139 -21.481 1.00 44.33 C
ANISOU 9 CB SER A 321 3883 6132 6831 -594 -42 -388 C
ATOM 10 OG SER A 321 51.642 25.165 -21.790 1.00 44.54 O
ANISOU 10 OG SER A 321 4074 6110 6740 -434 -58 -318 O
ATOM 11 C SER A 321 50.674 27.446 -20.489 1.00 41.02 C
ANISOU 11 C SER A 321 3753 5371 6461 -667 -116 -344 C
ATOM 12 O SER A 321 49.828 26.667 -20.050 1.00 38.76 O
ANISOU 12 O SER A 321 3585 5058 6085 -525 -186 -338 O
ATOM 13 N SER A 322 50.365 28.608 -21.063 1.00 39.94 N
ANISOU 13 N SER A 322 3672 5093 6409 -814 -31 -267 N
ATOM 14 CA SER A 322 48.990 29.066 -21.192 1.00 37.50 C
ANISOU 14 CA SER A 322 3558 4592 6098 -798 -28 -177 C
ATOM 15 CB SER A 322 48.780 30.408 -20.502 1.00 38.36 C

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Figure 18 (continued)

ANISOU	15	CB	SER A 322	3699	4533	6342	-928	-45	-227	C
ATOM	16	OG	SER A 322	48.807	30.236	-19.105	1.00	41.26		O
ANISOU	16	OG	SER A 322	4040	4932	6704	-882	-161	-379	O
ATOM	17	C	SER A 322	48.540	29.176	-22.627	1.00	35.90		C
ANISOU	17	C	SER A 322	3439	4343	5858	-813	81	-11	C
ATOM	18	O	SER A 322	49.323	29.452	-23.543	1.00	36.92		O
ANISOU	18	O	SER A 322	3488	4535	6006	-912	183	47	O
ATOM	19	N	PHE A 323	47.261	28.915	-22.811	1.00	32.90		N
ANISOU	19	N	PHE A 323	3216	3870	5414	-714	56	62	N
ATOM	20	CA	PHE A 323	46.611	29.195	-24.077	1.00	31.70		C
ANISOU	20	CA	PHE A 323	3167	3652	5224	-726	134	223	C
ATOM	21	CB	PHE A 323	46.730	28.032	-25.092	1.00	30.07		C
ANISOU	21	CB	PHE A 323	2953	3600	4872	-634	177	274	C
ATOM	22	CG	PHE A 323	46.322	26.714	-24.552	1.00	27.72		C
ANISOU	22	CG	PHE A 323	2678	3371	4481	-474	93	196	C
ATOM	23	CD1	PHE A 323	45.030	26.271	-24.707	1.00	25.75		C
ANISOU	23	CD1	PHE A 323	2566	3057	4162	-378	53	245	C
ATOM	24	CE1	PHE A 323	44.642	25.070	-24.196	1.00	24.05		C
ANISOU	24	CE1	PHE A 323	2380	2888	3871	-251	-15	180	C
ATOM	25	CZ	PHE A 323	45.541	24.275	-23.524	1.00	24.93		C
ANISOU	25	CZ	PHE A 323	2397	3105	3969	-195	-52	76	C
ATOM	26	CE2	PHE A 323	46.840	24.686	-23.357	1.00	25.71		C
ANISOU	26	CE2	PHE A 323	2350	3285	4133	-269	-26	23	C
ATOM	27	CD2	PHE A 323	47.234	25.908	-23.874	1.00	28.00		C
ANISOU	27	CD2	PHE A 323	2597	3536	4504	-418	51	77	C
ATOM	28	C	PHE A 323	45.163	29.568	-23.830	1.00	29.89		C
ANISOU	28	C	PHE A 323	3093	3256	5008	-667	82	270	C
ATOM	29	O	PHE A 323	44.616	29.366	-22.743	1.00	29.10		O
ANISOU	29	O	PHE A 323	3023	3117	4917	-600	-3	175	O
ATOM	30	N	SER A 324	44.553	30.095	-24.867	1.00	29.85		N
ANISOU	30	N	SER A 324	3182	3167	4994	-688	135	420	N
ATOM	31	CA	SER A 324	43.159	30.471	-24.844	1.00	30.29		C
ANISOU	31	CA	SER A 324	3369	3076	5062	-621	90	481	C
ATOM	32	CB	SER A 324	43.035	31.897	-25.367	1.00	32.34		C
ANISOU	32	CB	SER A 324	3691	3160	5436	-725	143	602	C
ATOM	33	OG	SER A 324	41.869	32.520	-24.855	1.00	36.69		O
ANISOU	33	OG	SER A 324	4337	3538	6064	-667	84	602	O
ATOM	34	C	SER A 324	42.357	29.507	-25.724	1.00	28.87		C
ANISOU	34	C	SER A 324	3257	2982	4731	-505	81	560	C
ATOM	35	O	SER A 324	42.760	29.221	-26.855	1.00	29.40		O
ANISOU	35	O	SER A 324	3315	3147	4709	-524	146	648	O
ATOM	36	N	PHE A 325	41.252	28.971	-25.199	1.00	26.88		N
ANISOU	36	N	PHE A 325	3064	2706	4445	-394	5	517	N
ATOM	37	CA	PHE A 325	40.371	28.148	-25.992	1.00	25.57		C
ANISOU	37	CA	PHE A 325	2960	2603	4153	-299	-13	580	C
ATOM	38	CB	PHE A 325	40.776	26.659	-25.905	1.00	24.87		C
ANISOU	38	CB	PHE A 325	2828	2671	3952	-233	-24	493	C
ATOM	39	CG	PHE A 325	39.944	25.733	-26.769	1.00	23.25		C
ANISOU	39	CG	PHE A 325	2684	2533	3617	-152	-40	535	C
ATOM	40	CD1	PHE A 325	40.003	25.815	-28.165	1.00	25.46		C
ANISOU	40	CD1	PHE A 325	2990	2876	3809	-171	12	645	C
ATOM	41	CE1	PHE A 325	39.243	24.954	-28.976	1.00	23.62		C
ANISOU	41	CE1	PHE A 325	2810	2717	3447	-102	-11	664	C
ATOM	42	CZ	PHE A 325	38.430	23.990	-28.377	1.00	23.09		C
ANISOU	42	CZ	PHE A 325	2768	2648	3358	-24	-79	576	C
ATOM	43	CE2	PHE A 325	38.359	23.916	-26.980	1.00	19.84		C
ANISOU	43	CE2	PHE A 325	2336	2168	3036	-9	-119	485	C
ATOM	44	CD2	PHE A 325	39.118	24.773	-26.195	1.00	20.21		C
ANISOU	44	CD2	PHE A 325	2332	2156	3190	-67	-102	463	C
ATOM	45	C	PHE A 325	38.945	28.342	-25.493	1.00	25.59		C
ANISOU	45	C	PHE A 325	3035	2502	4189	-224	-81	574	C
ATOM	46	O	PHE A 325	38.673	28.189	-24.307	1.00	24.95		O
ANISOU	46	O	PHE A 325	2941	2388	4150	-195	-126	462	O
ATOM	47	N	GLY A 326	38.032	28.646	-26.416	1.00	25.94		N
ANISOU	47	N	GLY A 326	3147	2510	4200	-188	-90	693	N
ATOM	48	CA	GLY A 326	36.612	28.725	-26.111	1.00	25.17		C
ANISOU	48	CA	GLY A 326	3096	2344	4125	-103	-155	690	C
ATOM	49	C	GLY A 326	36.229	29.790	-25.105	1.00	26.10		C
ANISOU	49	C	GLY A 326	3221	2299	4397	-108	-174	641	C
ATOM	50	O	GLY A 326	35.223	29.646	-24.422	1.00	25.44		O
ANISOU	50	O	GLY A 326	3144	2187	4334	-38	-220	574	O

Figure 18 (continued)

ATOM	51	N	GLY	A	327	37.027	30.862	-25.017	1.00	27.43		N
ANISOU	51	N	GLY	A	327	3385	2361	4675	-198	-132	664	N
ATOM	52	CA	GLY	A	327	36.814	31.912	-24.021	1.00	27.22		C
ANISOU	52	CA	GLY	A	327	3367	2168	4806	-214	-145	590	C
ATOM	53	C	GLY	A	327	37.405	31.621	-22.645	1.00	26.92		C
ANISOU	53	C	GLY	A	327	3269	2165	4793	-247	-155	409	C
ATOM	54	O	GLY	A	327	37.162	32.382	-21.694	1.00	27.56		O
ANISOU	54	O	GLY	A	327	3357	2128	4986	-254	-170	314	O
ATOM	55	N	PHE	A	328	38.164	30.521	-22.524	1.00	25.21		N
ANISOU	55	N	PHE	A	328	2998	2113	4470	-258	-153	357	N
ATOM	56	CA	PHE	A	328	38.854	30.196	-21.271	1.00	24.27		C
ANISOU	56	CA	PHE	A	328	2818	2049	4354	-284	-175	202	C
ATOM	57	CB	PHE	A	328	38.420	28.823	-20.748	1.00	21.36		C
ANISOU	57	CB	PHE	A	328	2450	1807	3859	-193	-216	141	C
ATOM	58	CG	PHE	A	328	37.002	28.783	-20.278	1.00	21.75		C
ANISOU	58	CG	PHE	A	328	2552	1805	3906	-115	-245	118	C
ATOM	59	CD1	PHE	A	328	36.703	28.945	-18.927	1.00	20.12		C
ANISOU	59	CD1	PHE	A	328	2344	1576	3724	-103	-269	-11	C
ATOM	60	CE1	PHE	A	328	35.409	28.928	-18.474	1.00	18.66		C
ANISOU	60	CE1	PHE	A	328	2192	1359	3539	-36	-280	-42	C
ATOM	61	CZ	PHE	A	328	34.350	28.706	-19.370	1.00	19.24		C
ANISOU	61	CZ	PHE	A	328	2291	1424	3594	24	-280	54	C
ATOM	62	CE2	PHE	A	328	34.621	28.534	-20.739	1.00	19.65		C
ANISOU	62	CE2	PHE	A	328	2351	1500	3614	16	-271	184	C
ATOM	63	CD2	PHE	A	328	35.943	28.578	-21.186	1.00	20.82		C
ANISOU	63	CD2	PHE	A	328	2476	1679	3755	-53	-247	216	C
ATOM	64	C	PHE	A	328	40.359	30.228	-21.450	1.00	24.86		C
ANISOU	64	C	PHE	A	328	2812	2194	4438	-383	-140	189	C
ATOM	65	O	PHE	A	328	40.866	29.801	-22.489	1.00	25.40		O
ANISOU	65	O	PHE	A	328	2860	2349	4442	-398	-98	278	O
ATOM	66	N	THR	A	329	41.061	30.721	-20.433	1.00	25.87		N
ANISOU	66	N	THR	A	329	2885	2302	4643	-451	-157	64	N
ATOM	67	CA	THR	A	329	42.516	30.587	-20.320	1.00	26.02		C
ANISOU	67	CA	THR	A	329	2793	2427	4668	-537	-143	9	C
ATOM	68	CB	THR	A	329	43.119	31.743	-19.510	1.00	27.28		C
ANISOU	68	CB	THR	A	329	2908	2490	4967	-657	-149	-100	C
ATOM	69	OG1	THR	A	329	42.778	32.984	-20.135	1.00	28.71		O
ANISOU	69	OG1	THR	A	329	3154	2479	5276	-731	-95	-9	O
ATOM	70	CG2	THR	A	329	44.634	31.634	-19.423	1.00	28.51		C
ANISOU	70	CG2	THR	A	329	2923	2773	5137	-755	-139	-164	C
ATOM	71	C	THR	A	329	42.803	29.250	-19.623	1.00	25.30		C
ANISOU	71	C	THR	A	329	2656	2504	4453	-448	-202	-77	C
ATOM	72	O	THR	A	329	42.381	29.020	-18.481	1.00	24.62		O
ANISOU	72	O	THR	A	329	2591	2422	4339	-397	-263	-177	O
ATOM	73	N	PHE	A	330	43.508	28.370	-20.328	1.00	25.13		N
ANISOU	73	N	PHE	A	330	2578	2617	4353	-425	-178	-34	N
ATOM	74	CA	PHE	A	330	44.004	27.109	-19.781	1.00	23.76		C
ANISOU	74	CA	PHE	A	330	2354	2594	4080	-338	-231	-105	C
ATOM	75	CB	PHE	A	330	44.025	26.057	-20.885	1.00	22.27		C
ANISOU	75	CB	PHE	A	330	2176	2492	3794	-266	-193	-21	C
ATOM	76	CG	PHE	A	330	42.680	25.488	-21.239	1.00	20.53		C
ANISOU	76	CG	PHE	A	330	2078	2221	3502	-181	-200	43	C
ATOM	77	CD1	PHE	A	330	42.392	24.145	-20.983	1.00	19.04		C
ANISOU	77	CD1	PHE	A	330	1924	2097	3213	-73	-240	19	C
ATOM	78	CE1	PHE	A	330	41.140	23.599	-21.356	1.00	18.69		C
ANISOU	78	CE1	PHE	A	330	1982	2010	3110	-15	-244	70	C
ATOM	79	CZ	PHE	A	330	40.183	24.409	-21.969	1.00	16.45		C
ANISOU	79	CZ	PHE	A	330	1753	1636	2861	-47	-219	144	C
ATOM	80	CE2	PHE	A	330	40.483	25.735	-22.229	1.00	17.52		C
ANISOU	80	CE2	PHE	A	330	1861	1702	3092	-134	-185	180	C
ATOM	81	CD2	PHE	A	330	41.712	26.267	-21.870	1.00	18.89		C
ANISOU	81	CD2	PHE	A	330	1947	1901	3330	-209	-170	131	C
ATOM	82	C	PHE	A	330	45.442	27.334	-19.342	1.00	25.60		C
ANISOU	82	C	PHE	A	330	2443	2923	4362	-411	-244	-196	C
ATOM	83	O	PHE	A	330	46.220	27.886	-20.103	1.00	26.69		O
ANISOU	83	O	PHE	A	330	2504	3075	4562	-509	-176	-160	O
ATOM	84	N	LYS	A	331	45.798	26.952	-18.116	1.00	26.58		N
ANISOU	84	N	LYS	A	331	2524	3119	4455	-370	-331	-311	N
ATOM	85	CA	LYS	A	331	47.198	26.814	-17.729	1.00	28.34		C
ANISOU	85	CA	LYS	A	331	2589	3483	4695	-400	-366	-401	C
ATOM	86	CB	LYS	A	331	47.576	27.791	-16.597	1.00	29.96		C

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Figure 18 (continued)

ANISOU	86	CB	LYS A 331	2740	3665	4978	-499	-424	-533	C
ATOM	87	CG	LYS A 331	46.950	29.141	-16.805	1.00	33.02		C
ANISOU	87	CG	LYS A 331	3199	3864	5484	-618	-366	-514	C
ATOM	88	CD	LYS A 331	47.691	30.310	-16.166	1.00	36.96		C
ANISOU	88	CD	LYS A 331	3609	4328	6108	-772	-384	-641	C
ATOM	89	CE	LYS A 331	46.932	31.614	-16.487	1.00	38.10		C
ANISOU	89	CE	LYS A 331	3856	4240	6381	-869	-318	-602	C
ATOM	90	NZ	LYS A 331	45.453	31.490	-16.098	1.00	35.18		N
ANISOU	90	NZ	LYS A 331	3643	3766	5958	-754	-340	-582	N
ATOM	91	C	LYS A 331	47.426	25.382	-17.285	1.00	27.41		C
ANISOU	91	C	LYS A 331	2461	3496	4457	-247	-438	-423	C
ATOM	92	O	LYS A 331	46.686	24.886	-16.436	1.00	26.89		O
ANISOU	92	O	LYS A 331	2493	3409	4316	-163	-502	-440	O
ATOM	93	N	ARG A 332	48.430	24.719	-17.857	1.00	27.61		N
ANISOU	93	N	ARG A 332	2371	3651	4467	-207	-422	-419	N
ATOM	94	CA	ARG A 332	48.758	23.355	-17.455	1.00	27.40		C
ANISOU	94	CA	ARG A 332	2331	3735	4345	-47	-494	-440	C
ATOM	95	CB	ARG A 332	49.602	22.651	-18.535	1.00	28.32		C
ANISOU	95	CB	ARG A 332	2347	3958	4456	6	-433	-413	C
ATOM	96	CG	ARG A 332	49.838	21.151	-18.250	1.00	27.07		C
ANISOU	96	CG	ARG A 332	2199	3876	4209	196	-503	-424	C
ATOM	97	CD	ARG A 332	50.442	20.434	-19.426	1.00	28.72		C
ANISOU	97	CD	ARG A 332	2338	4163	4411	261	-425	-404	C
ATOM	98	NE	ARG A 332	51.692	21.044	-19.875	1.00	33.91		N
ANISOU	98	NE	ARG A 332	2788	4950	5147	174	-371	-457	N
ATOM	99	CZ	ARG A 332	52.274	20.789	-21.043	1.00	34.89		C
ANISOU	99	CZ	ARG A 332	2824	5156	5276	178	-265	-445	C
ATOM	100	NH1	ARG A 332	51.722	19.917	-21.900	1.00	36.69		N
ANISOU	100	NH1	ARG A 332	3162	5348	5430	273	-212	-393	N
ATOM	101	NH2	ARG A 332	53.401	21.404	-21.362	1.00	33.49		N
ANISOU	101	NH2	ARG A 332	2447	5104	5173	80	-208	-495	N
ATOM	102	C	ARG A 332	49.478	23.325	-16.100	1.00	28.09		C
ANISOU	102	C	ARG A 332	2332	3923	4419	-22	-617	-552	C
ATOM	103	O	ARG A 332	50.525	23.979	-15.940	1.00	29.61		O
ANISOU	103	O	ARG A 332	2361	4203	4686	-112	-631	-634	O
ATOM	104	N	THR A 333	48.919	22.570	-15.143	1.00	26.95		N
ANISOU	104	N	THR A 333	2293	3774	4172	91	-705	-554	N
ATOM	105	CA	THR A 333	49.474	22.450	-13.787	1.00	27.54		C
ANISOU	105	CA	THR A 333	2315	3954	4195	133	-836	-647	C
ATOM	106	CB	THR A 333	48.388	22.724	-12.718	1.00	27.54		C
ANISOU	106	CB	THR A 333	2466	3874	4125	122	-877	-663	C
ATOM	107	OG1	THR A 333	47.269	21.862	-12.950	1.00	25.80		O
ANISOU	107	OG1	THR A 333	2413	3561	3829	209	-841	-558	O
ATOM	108	CG2	THR A 333	47.898	24.155	-12.811	1.00	27.45		C
ANISOU	108	CG2	THR A 333	2468	3750	4212	-40	-814	-706	C
ATOM	109	C	THR A 333	50.166	21.106	-13.487	1.00	28.06		C
ANISOU	109	C	THR A 333	2339	4142	4179	311	-925	-636	C
ATOM	110	O	THR A 333	50.964	21.028	-12.549	1.00	29.37		O
ANISOU	110	O	THR A 333	2410	4438	4313	352	-1042	-713	O
ATOM	111	N	SER A 334	49.860	20.070	-14.277	1.00	27.10		N
ANISOU	111	N	SER A 334	2292	3978	4028	420	-875	-547	N
ATOM	112	CA	SER A 334	50.480	18.728	-14.162	1.00	27.68		C
ANISOU	112	CA	SER A 334	2343	4130	4045	606	-945	-529	C
ATOM	113	CB	SER A 334	49.626	17.789	-13.327	1.00	26.96		C
ANISOU	113	CB	SER A 334	2442	3966	3835	718	-1011	-462	C
ATOM	114	OG	SER A 334	50.099	17.727	-12.010	1.00	30.72		O
ANISOU	114	OG	SER A 334	2890	4542	4239	772	-1148	-505	O
ATOM	115	C	SER A 334	50.552	18.102	-15.525	1.00	26.76		C
ANISOU	115	C	SER A 334	2220	3985	3963	656	-843	-480	C
ATOM	116	O	SER A 334	49.729	18.424	-16.392	1.00	25.27		O
ANISOU	116	O	SER A 334	2118	3691	3794	573	-735	-429	O
ATOM	117	N	GLY A 335	51.514	17.201	-15.702	1.00	27.29		N
ANISOU	117	N	GLY A 335	2187	4150	4033	801	-881	-502	N
ATOM	118	CA	GLY A 335	51.543	16.328	-16.851	1.00	27.54		C
ANISOU	118	CA	GLY A 335	2237	4152	4073	890	-798	-470	C
ATOM	119	C	GLY A 335	52.108	16.996	-18.081	1.00	28.17		C
ANISOU	119	C	GLY A 335	2172	4300	4230	785	-672	-502	C
ATOM	120	O	GLY A 335	52.658	18.070	-18.002	1.00	28.84		O
ANISOU	120	O	GLY A 335	2118	4461	4377	651	-657	-549	O
ATOM	121	N	SER A 336	51.966	16.334	-19.225	1.00	29.01		N
ANISOU	121	N	SER A 336	2317	4378	4327	841	-577	-478	N

Figure 18 (continued)

ATOM	122	CA	SER	A	336	52.594	16.734	-20.488	1.00	29.82	
ANISOU	122	CA	SER	A	336	2284	4572	4476	770	-446	-503
ATOM	123	CB	SER	A	336	54.095	16.434	-20.467	1.00	31.95	
ANISOU	123	CB	SER	A	336	2316	5026	4798	861	-468	-597
ATOM	124	OG	SER	A	336	54.337	15.074	-20.142	1.00	33.68	
ANISOU	124	OG	SER	A	336	2566	5243	4988	1088	-549	-616
ATOM	125	C	SER	A	336	51.901	15.920	-21.579	1.00	29.25	
ANISOU	125	C	SER	A	336	2348	4417	4348	830	-360	-463
ATOM	126	O	SER	A	336	51.086	15.038	-21.269	1.00	29.76	
ANISOU	126	O	SER	A	336	2585	4361	4362	927	-411	-428
ATOM	127	N	SER	A	337	52.166	16.233	-22.844	1.00	28.72	
ANISOU	127	N	SER	A	337	2213	4414	4284	760	-226	-467
ATOM	128	CA	SER	A	337	51.555	15.491	-23.941	1.00	27.37	
ANISOU	128	CA	SER	A	337	2163	4189	4047	811	-146	-447
ATOM	129	CB	SER	A	337	50.107	15.923	-24.208	1.00	25.82	
ANISOU	129	CB	SER	A	337	2159	3849	3801	703	-126	-356
ATOM	130	OG	SER	A	337	49.993	17.233	-24.736	1.00	25.02	
ANISOU	130	OG	SER	A	337	2022	3769	3717	524	-47	-301
ATOM	131	C	SER	A	337	52.380	15.600	-25.197	1.00	28.77	
ANISOU	131	C	SER	A	337	2201	4511	4219	786	-9	-489
ATOM	132	O	SER	A	337	53.165	16.538	-25.354	1.00	29.57	
ANISOU	132	O	SER	A	337	2138	4728	4370	669	48	-499
ATOM	133	N	ILE	A	338	52.232	14.601	-26.062	1.00	28.60	
ANISOU	133	N	ILE	A	338	2243	4486	4138	894	46	-524
ATOM	134	CA	ILE	A	338	52.744	14.661	-27.433	1.00	29.37	
ANISOU	134	CA	ILE	A	338	2253	4715	4191	862	197	-558
ATOM	135	CB	ILE	A	338	53.684	13.470	-27.745	1.00	30.62	
ANISOU	135	CB	ILE	A	338	2306	4969	4358	1060	220	-684
ATOM	136	CG1	ILE	A	338	52.951	12.126	-27.567	1.00	28.62	
ANISOU	136	CG1	ILE	A	338	2242	4558	4076	1227	144	-711
ATOM	137	CD1	ILE	A	338	53.801	10.890	-27.901	1.00	31.84	
ANISOU	137	CD1	ILE	A	338	2573	5023	4504	1443	164	-841
ATOM	138	CG2	ILE	A	338	54.936	13.557	-26.869	1.00	29.51	
ANISOU	138	CG2	ILE	A	338	1946	4947	4320	1128	157	-748
ATOM	139	C	ILE	A	338	51.544	14.715	-28.383	1.00	29.43	
ANISOU	139	C	ILE	A	338	2448	4638	4097	787	257	-490
ATOM	140	O	ILE	A	338	50.421	14.456	-27.965	1.00	27.50	
ANISOU	140	O	ILE	A	338	2379	4237	3831	796	177	-443
ATOM	141	N	LYS	A	339	51.768	15.077	-29.643	1.00	32.18	
ANISOU	141	N	LYS	A	339	2753	5101	4374	708	395	-484
ATOM	142	CA	LYS	A	339	50.659	15.264	-30.588	1.00	32.96	
ANISOU	142	CA	LYS	A	339	3017	5146	4361	628	443	-410
ATOM	143	CB	LYS	A	339	50.689	16.636	-31.277	1.00	33.66	
ANISOU	143	CB	LYS	A	339	3068	5303	4417	436	542	-299
ATOM	144	CG	LYS	A	339	50.626	17.879	-30.433	1.00	35.13	
ANISOU	144	CG	LYS	A	339	3225	5418	4704	302	495	-209
ATOM	145	CD	LYS	A	339	50.839	19.070	-31.356	1.00	39.41	
ANISOU	145	CD	LYS	A	339	3730	6034	5211	126	622	-105
ATOM	146	CE	LYS	A	339	51.214	20.330	-30.602	1.00	43.35	
ANISOU	146	CE	LYS	A	339	4145	6489	5837	-18	608	-49
ATOM	147	NZ	LYS	A	339	51.747	21.354	-31.562	1.00	47.40	
ANISOU	147	NZ	LYS	A	339	4590	7093	6327	-188	758	41
ATOM	148	C	LYS	A	339	50.829	14.249	-31.693	1.00	34.82	
ANISOU	148	C	LYS	A	339	3269	5464	4496	730	526	-506
ATOM	149	O	LYS	A	339	51.942	13.867	-32.033	1.00	35.45	
ANISOU	149	O	LYS	A	339	3198	5686	4586	804	603	-605
ATOM	150	N	ARG	A	340	49.708	13.859	-32.287	1.00	34.88	
ANISOU	150	N	ARG	A	340	3453	5392	4405	727	514	-488
ATOM	151	CA	ARG	A	340	49.725	12.999	-33.446	1.00	37.31	
ANISOU	151	CA	ARG	A	340	3799	5779	4597	798	594	-585
ATOM	152	CB	ARG	A	340	49.722	11.545	-32.981	1.00	37.81	
ANISOU	152	CB	ARG	A	340	3918	5738	4710	985	522	-715
ATOM	153	CG	ARG	A	340	49.740	10.518	-34.090	1.00	41.11	
ANISOU	153	CG	ARG	A	340	4385	6209	5025	1077	596	-851
ATOM	154	CD	ARG	A	340	49.106	9.264	-33.574	1.00	44.08	
ANISOU	154	CD	ARG	A	340	4906	6391	5449	1202	493	-927
ATOM	155	NE	ARG	A	340	49.351	8.129	-34.448	1.00	49.69	
ANISOU	155	NE	ARG	A	340	5647	7130	6103	1325	557	-1096
ATOM	156	CZ	ARG	A	340	48.735	6.956	-34.322	1.00	52.03	
ANISOU	156	CZ	ARG	A	340	6093	7254	6423	1418	492	-1183
ATOM	157	NH1	ARG	A	340	47.836	6.774	-33.353	1.00	51.49	

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Figure 18 (continued)

ANISOU	157	NH1	ARG	A	340	6152	6986	6426	1395	368	-1102	N
ATOM	158	NH2	ARG	A	340	49.013	5.967	-35.163	1.00	53.54		N
ANISOU	158	NH2	ARG	A	340	6308	7469	6565	1528	558	-1356	N
ATOM	159	C	ARG	A	340	48.494	13.280	-34.318	1.00	36.74		C
ANISOU	159	C	ARG	A	340	3889	5680	4391	701	601	-510	C
ATOM	160	O	ARG	A	340	47.381	13.418	-33.808	1.00	35.04		O
ANISOU	160	O	ARG	A	340	3799	5317	4196	663	499	-439	O
ATOM	161	N	GLU	A	341	48.689	13.298	-35.631	1.00	38.65		N
ANISOU	161	N	GLU	A	341	4121	6076	4488	670	720	-537	N
ATOM	162	CA	GLU	A	341	47.613	13.581	-36.585	1.00	38.96		C
ANISOU	162	CA	GLU	A	341	4300	6129	4373	584	724	-467	C
ATOM	163	CB	GLU	A	341	48.207	14.150	-37.884	1.00	41.11		C
ANISOU	163	CB	GLU	A	341	4510	6619	4490	505	881	-436	C
ATOM	164	CG	GLU	A	341	47.223	14.984	-38.717	1.00	44.93		C
ANISOU	164	CG	GLU	A	341	5114	7131	4828	380	878	-285	C
ATOM	165	CD	GLU	A	341	47.713	16.411	-38.966	1.00	50.98		C
ANISOU	165	CD	GLU	A	341	5809	7976	5584	232	968	-111	C
ATOM	166	OE1	GLU	A	341	48.843	16.587	-39.478	1.00	53.24		O
ANISOU	166	OE1	GLU	A	341	5969	8430	5831	202	1115	-135	O
ATOM	167	OE2	GLU	A	341	46.961	17.362	-38.638	1.00	52.85		O
ANISOU	167	OE2	GLU	A	341	6117	8101	5863	142	896	49	O
ATOM	168	C	GLU	A	341	46.793	12.331	-36.867	1.00	38.09		C
ANISOU	168	C	GLU	A	341	4327	5941	4204	678	662	-589	C
ATOM	169	O	GLU	A	341	47.339	11.310	-37.253	1.00	39.85		O
ANISOU	169	O	GLU	A	341	4528	6213	4402	792	712	-749	O
ATOM	170	N	GLU	A	342	45.486	12.415	-36.661	1.00	36.22		N
ANISOU	170	N	GLU	A	342	4225	5579	3958	630	556	-523	N
ATOM	171	CA	GLU	A	342	44.583	11.283	-36.867	1.00	35.81		C
ANISOU	171	CA	GLU	A	342	4305	5437	3866	688	488	-634	C
ATOM	172	CB	GLU	A	342	44.147	10.658	-35.531	1.00	34.01		C
ANISOU	172	CB	GLU	A	342	4129	4994	3799	747	372	-653	C
ATOM	173	CG	GLU	A	342	45.206	9.806	-34.803	1.00	36.13		C
ANISOU	173	CG	GLU	A	342	4330	5210	4188	889	381	-758	C
ATOM	174	CD	GLU	A	342	44.743	9.377	-33.407	1.00	35.59		C
ANISOU	174	CD	GLU	A	342	4326	4936	4262	929	264	-729	C
ATOM	175	OE1	GLU	A	342	45.588	9.256	-32.489	1.00	36.85		O
ANISOU	175	OE1	GLU	A	342	4407	5063	4532	1012	245	-731	O
ATOM	176	OE2	GLU	A	342	43.515	9.182	-33.211	1.00	38.13		O
ANISOU	176	OE2	GLU	A	342	4771	5140	4578	874	190	-700	O
ATOM	177	C	GLU	A	342	43.348	11.764	-37.613	1.00	34.67		C
ANISOU	177	C	GLU	A	342	4264	5320	3589	586	446	-553	C
ATOM	178	O	GLU	A	342	42.952	12.925	-37.477	1.00	33.00		O
ANISOU	178	O	GLU	A	342	4047	5109	3382	490	423	-388	O
ATOM	179	N	GLU	A	343	42.744	10.866	-38.396	1.00	34.97		N
ANISOU	179	N	GLU	A	343	4394	5378	3515	612	430	-675	N
ATOM	180	CA	GLU	A	343	41.458	11.149	-39.027	1.00	34.95		C
ANISOU	180	CA	GLU	A	343	4487	5398	3393	529	359	-621	C
ATOM	181	CB	GLU	A	343	41.400	10.673	-40.480	1.00	36.90		C
ANISOU	181	CB	GLU	A	343	4778	5818	3423	531	413	-733	C
ATOM	182	CG	GLU	A	343	42.297	11.448	-41.402	1.00	40.28		C
ANISOU	182	CG	GLU	A	343	5137	6463	3706	499	544	-666	C
ATOM	183	CD	GLU	A	343	42.120	11.051	-42.851	1.00	46.55		C
ANISOU	183	CD	GLU	A	343	5988	7449	4252	492	592	-767	C
ATOM	184	OE1	GLU	A	343	42.201	9.829	-43.156	1.00	49.23		O
ANISOU	184	OE1	GLU	A	343	6363	7781	4562	569	603	-985	O
ATOM	185	OE2	GLU	A	343	41.906	11.965	-43.686	1.00	47.82		O
ANISOU	185	OE2	GLU	A	343	6164	7764	4241	412	616	-627	O
ATOM	186	C	GLU	A	343	40.331	10.521	-38.238	1.00	33.33		C
ANISOU	186	C	GLU	A	343	4367	5004	3293	529	234	-656	C
ATOM	187	O	GLU	A	343	40.314	9.306	-37.987	1.00	33.83		O
ANISOU	187	O	GLU	A	343	4478	4963	3412	597	215	-808	O
ATOM	188	N	VAL	A	344	39.377	11.366	-37.868	1.00	31.66		N
ANISOU	188	N	VAL	A	344	4174	4745	3110	451	153	-512	N
ATOM	189	CA	VAL	A	344	38.220	10.946	-37.086	1.00	29.70		C
ANISOU	189	CA	VAL	A	344	3988	4336	2960	430	43	-524	C
ATOM	190	CB	VAL	A	344	38.219	11.619	-35.676	1.00	27.60		C
ANISOU	190	CB	VAL	A	344	3682	3937	2866	420	8	-403	C
ATOM	191	CG1	VAL	A	344	39.536	11.354	-34.968	1.00	27.04		C
ANISOU	191	CG1	VAL	A	344	3551	3828	2895	497	68	-437	C
ATOM	192	CG2	VAL	A	344	38.006	13.082	-35.781	1.00	26.27		C
ANISOU	192	CG2	VAL	A	344	3472	3829	2680	354	3	-231	C

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Figure 18 (continued)

ATOM	193	C	VAL	A	344	36.924	11.195	-37.880	1.00	29.93	
ANISOU	193	C	VAL	A	344	4067	4436	2869	358	-34	-498
ATOM	194	O	VAL	A	344	36.926	11.910	-38.891	1.00	30.08	
ANISOU	194	O	VAL	A	344	4076	4615	2736	327	-12	-427
ATOM	195	N	LEU	A	345	35.842	10.556	-37.454	1.00	29.10	
ANISOU	195	N	LEU	A	345	4013	4220	2824	331	-122	-559
ATOM	196	CA	LEU	A	345	34.564	10.639	-38.170	1.00	29.46	
ANISOU	196	CA	LEU	A	345	4088	4339	2767	267	-210	-564
ATOM	197	CB	LEU	A	345	34.148	9.271	-38.665	1.00	30.37	
ANISOU	197	CB	LEU	A	345	4269	4435	2834	260	-234	-769
ATOM	198	CG	LEU	A	345	34.852	8.751	-39.913	1.00	33.75	
ANISOU	198	CG	LEU	A	345	4723	5011	3089	297	-167	-900
ATOM	199	CD1	LEU	A	345	35.036	7.242	-39.784	1.00	35.77	
ANISOU	199	CD1	LEU	A	345	5045	5139	3408	333	-149	-1117
ATOM	200	CD2	LEU	A	345	34.081	9.105	-41.171	1.00	33.10	
ANISOU	200	CD2	LEU	A	345	4653	5125	2797	243	-226	-900
ATOM	201	C	LEU	A	345	33.486	11.170	-37.248	1.00	27.67	
ANISOU	201	C	LEU	A	345	3841	4009	2661	219	-296	-463
ATOM	202	O	LEU	A	345	33.301	10.630	-36.166	1.00	27.33	
ANISOU	202	O	LEU	A	345	3812	3808	2766	218	-308	-498
ATOM	203	N	THR	A	346	32.793	12.229	-37.663	1.00	27.06	
ANISOU	203	N	THR	A	346	3734	4024	2522	186	-351	-335
ATOM	204	CA	THR	A	346	31.706	12.815	-36.857	1.00	25.51	
ANISOU	204	CA	THR	A	346	3504	3749	2440	153	-431	-248
ATOM	205	CB	THR	A	346	31.306	14.244	-37.367	1.00	25.70	
ANISOU	205	CB	THR	A	346	3492	3871	2401	152	-474	-71
ATOM	206	OG1	THR	A	346	30.535	14.151	-38.575	1.00	27.06	
ANISOU	206	OG1	THR	A	346	3676	4199	2405	136	-550	-97
ATOM	207	CG2	THR	A	346	32.515	15.135	-37.609	1.00	24.02	
ANISOU	207	CG2	THR	A	346	3273	3699	2154	177	-384	49
ATOM	208	C	THR	A	346	30.457	11.896	-36.816	1.00	26.38	
ANISOU	208	C	THR	A	346	3628	3829	2568	101	-515	-371
ATOM	209	O	THR	A	346	30.402	10.882	-37.518	1.00	27.44	
ANISOU	209	O	THR	A	346	3805	4004	2616	84	-521	-521
ATOM	210	N	GLY	A	347	29.450	12.255	-36.016	1.00	25.61	
ANISOU	210	N	GLY	A	347	3486	3661	2583	68	-575	-320
ATOM	211	CA	GLY	A	347	28.142	11.586	-36.109	1.00	25.17	
ANISOU	211	CA	GLY	A	347	3414	3613	2535	0	-659	-421
ATOM	212	C	GLY	A	347	27.442	11.653	-37.467	1.00	26.55	
ANISOU	212	C	GLY	A	347	3572	3975	2541	-19	-747	-458
ATOM	213	O	GLY	A	347	26.559	10.833	-37.753	1.00	27.47	
ANISOU	213	O	GLY	A	347	3681	4117	2641	-85	-811	-591
ATOM	214	N	ASN	A	348	27.812	12.630	-38.302	1.00	26.51	
ANISOU	214	N	ASN	A	348	3561	4103	2408	31	-754	-337
ATOM	215	CA	ASN	A	348	27.340	12.690	-39.715	1.00	27.47	
ANISOU	215	CA	ASN	A	348	3685	4430	2323	26	-835	-360
ATOM	216	CB	ASN	A	348	27.036	14.128	-40.155	1.00	27.65	
ANISOU	216	CB	ASN	A	348	3670	4556	2281	75	-894	-155
ATOM	217	CG	ASN	A	348	25.936	14.197	-41.212	1.00	30.51	
ANISOU	217	CG	ASN	A	348	3999	5108	2487	66	-1036	-172
ATOM	218	OD1	ASN	A	348	25.056	13.330	-41.277	1.00	32.90	
ANISOU	218	OD1	ASN	A	348	4267	5438	2795	8	-1112	-331
ATOM	219	ND2	ASN	A	348	26.001	15.206	-42.070	1.00	30.49	
ANISOU	219	ND2	ASN	A	348	4008	5240	2337	120	-1076	-9
ATOM	220	C	ASN	A	348	28.300	12.039	-40.715	1.00	28.41	
ANISOU	220	C	ASN	A	348	3879	4646	2270	37	-769	-462
ATOM	221	O	ASN	A	348	28.092	12.120	-41.927	1.00	29.94	
ANISOU	221	O	ASN	A	348	4087	5027	2260	37	-821	-478
ATOM	222	N	LEU	A	349	29.339	11.376	-40.203	1.00	27.99	
ANISOU	222	N	LEU	A	349	3869	4473	2293	53	-657	-538
ATOM	223	CA	LEU	A	349	30.311	10.650	-41.043	1.00	29.00	
ANISOU	223	CA	LEU	A	349	4058	4676	2284	77	-577	-664
ATOM	224	CB	LEU	A	349	29.602	9.567	-41.884	1.00	30.71	
ANISOU	224	CB	LEU	A	349	4309	4973	2386	27	-646	-875
ATOM	225	CG	LEU	A	349	28.751	8.531	-41.136	1.00	30.08	
ANISOU	225	CG	LEU	A	349	4234	4731	2466	-42	-696	-1020
ATOM	226	CD1	LEU	A	349	28.022	7.598	-42.085	1.00	30.19	
ANISOU	226	CD1	LEU	A	349	4274	4842	2357	-109	-773	-1229
ATOM	227	CD2	LEU	A	349	29.637	7.731	-40.222	1.00	29.27	
ANISOU	227	CD2	LEU	A	349	4181	4417	2521	-10	-593	-1087
ATOM	228	C	LEU	A	349	31.195	11.574	-41.914	1.00	29.53	

Figure 18 (continued)

ANISOU	228	C	LEU	A	349	4130	4907	2185	121	-512	-535	C
ATOM	229	O	LEU	A	349	31.589	11.202	-43.025	1.00	31.24		O
ANISOU	229	O	LEU	A	349	4386	5279	2206	128	-480	-624	O
ATOM	230	N	GLN	A	350	31.500	12.768	-41.395	1.00	28.82		N
ANISOU	230	N	GLN	A	350	4003	4776	2171	141	-485	-330	N
ATOM	231	CA	GLN	A	350	32.430	13.729	-42.020	1.00	30.27		C
ANISOU	231	CA	GLN	A	350	4189	5072	2238	164	-402	-180	C
ATOM	232	CB	GLN	A	350	31.967	15.164	-41.722	1.00	29.66		C
ANISOU	232	CB	GLN	A	350	4082	4968	2219	164	-454	54	C
ATOM	233	CG	GLN	A	350	32.811	16.292	-42.325	1.00	30.58		C
ANISOU	233	CG	GLN	A	350	4211	5174	2234	167	-373	242	C
ATOM	234	CD	GLN	A	350	32.356	17.682	-41.883	1.00	30.94		C
ANISOU	234	CD	GLN	A	350	4238	5137	2382	172	-423	464	C
ATOM	235	OE1	GLN	A	350	31.407	17.830	-41.095	1.00	28.70		O
ANISOU	235	OE1	GLN	A	350	3920	4739	2246	182	-518	470	O
ATOM	236	NE2	GLN	A	350	33.032	18.708	-42.394	1.00	31.65		N
ANISOU	236	NE2	GLN	A	350	4350	5278	2397	161	-353	643	N
ATOM	237	C	GLN	A	350	33.826	13.515	-41.457	1.00	29.30		C
ANISOU	237	C	GLN	A	350	4053	4868	2210	193	-262	-209	C
ATOM	238	O	GLN	A	350	33.975	13.375	-40.257	1.00	27.88		O
ANISOU	238	O	GLN	A	350	3848	4515	2231	203	-253	-217	O
ATOM	239	N	THR	A	351	34.832	13.499	-42.315	1.00	30.89		N
ANISOU	239	N	THR	A	351	4265	5208	2262	207	-156	-226	N
ATOM	240	CA	THR	A	351	36.226	13.364	-41.880	1.00	31.43		C
ANISOU	240	CA	THR	A	351	4295	5233	2412	241	-21	-254	C
ATOM	241	CB	THR	A	351	37.120	12.811	-43.019	1.00	33.11		C
ANISOU	241	CB	THR	A	351	4522	5629	2431	264	91	-373	C
ATOM	242	OG1	THR	A	351	36.598	11.543	-43.428	1.00	32.96		O
ANISOU	242	OG1	THR	A	351	4555	5620	2346	282	42	-592	O
ATOM	243	CG2	THR	A	351	38.567	12.622	-42.553	1.00	34.11		C
ANISOU	243	CG2	THR	A	351	4582	5723	2657	309	229	-418	C
ATOM	244	C	THR	A	351	36.792	14.669	-41.370	1.00	31.33		C
ANISOU	244	C	THR	A	351	4233	5181	2492	220	30	-48	C
ATOM	245	O	THR	A	351	36.719	15.702	-42.065	1.00	32.56		O
ANISOU	245	O	THR	A	351	4400	5442	2531	184	38	119	O
ATOM	246	N	LEU	A	352	37.338	14.623	-40.153	1.00	30.61		N
ANISOU	246	N	LEU	A	352	4091	4933	2605	240	57	-57	N
ATOM	247	CA	LEU	A	352	38.103	15.732	-39.588	1.00	30.88		C
ANISOU	247	CA	LEU	A	352	4065	4923	2744	215	120	94	C
ATOM	248	CB	LEU	A	352	37.467	16.248	-38.296	1.00	28.81		C
ANISOU	248	CB	LEU	A	352	3790	4476	2680	205	35	169	C
ATOM	249	CG	LEU	A	352	36.033	16.805	-38.295	1.00	28.66		C
ANISOU	249	CG	LEU	A	352	3809	4417	2663	183	-86	262	C
ATOM	250	CD1	LEU	A	352	35.625	17.143	-36.864	1.00	26.74		C
ANISOU	250	CD1	LEU	A	352	3538	3992	2629	184	-138	291	C
ATOM	251	CD2	LEU	A	352	35.847	18.027	-39.226	1.00	29.78		C
ANISOU	251	CD2	LEU	A	352	3972	4656	2686	149	-86	449	C
ATOM	252	C	LEU	A	352	39.550	15.297	-39.350	1.00	32.06		C
ANISOU	252	C	LEU	A	352	4145	5094	2942	250	241	5	C
ATOM	253	O	LEU	A	352	39.807	14.219	-38.805	1.00	31.91		O
ANISOU	253	O	LEU	A	352	4119	5002	3003	313	237	-151	O
ATOM	254	N	LYS	A	353	40.489	16.127	-39.790	1.00	33.85		N
ANISOU	254	N	LYS	A	353	4320	5423	3120	208	350	105	N
ATOM	255	CA	LYS	A	353	41.898	15.963	-39.470	1.00	34.96		C
ANISOU	255	CA	LYS	A	353	4358	5594	3332	230	465	43	C
ATOM	256	CB	LYS	A	353	42.735	16.484	-40.626	1.00	37.50		C
ANISOU	256	CB	LYS	A	353	4644	6115	3488	179	606	104	C
ATOM	257	CG	LYS	A	353	44.133	15.905	-40.717	1.00	41.91		C
ANISOU	257	CG	LYS	A	353	5091	6777	4055	224	740	-29	C
ATOM	258	CD	LYS	A	353	44.876	16.499	-41.917	1.00	48.11		C
ANISOU	258	CD	LYS	A	353	5841	7780	4658	151	894	45	C
ATOM	259	CE	LYS	A	353	45.805	15.477	-42.553	1.00	51.72		C
ANISOU	259	CE	LYS	A	353	6232	8401	5018	228	1016	-154	C
ATOM	260	NZ	LYS	A	353	46.301	15.930	-43.897	1.00	55.83		N
ANISOU	260	NZ	LYS	A	353	6745	9164	5305	155	1168	-93	N
ATOM	261	C	LYS	A	353	42.176	16.775	-38.212	1.00	33.47		C
ANISOU	261	C	LYS	A	353	4107	5260	3349	199	442	138	C
ATOM	262	O	LYS	A	353	42.115	18.008	-38.238	1.00	33.44		O
ANISOU	262	O	LYS	A	353	4099	5242	3365	118	453	305	O
ATOM	263	N	ILE	A	354	42.447	16.075	-37.110	1.00	32.36		N
ANISOU	263	N	ILE	A	354	3930	5007	3360	266	404	30	N

Figure 18 (continued)

ATOM	264	CA	ILE	A	354	42.806	16.720	-35.842	1.00	31.37		C
ANISOU	264	CA	ILE	A	354	3738	4762	3418	245	377	87	C
ATOM	265	CB	ILE	A	354	41.737	16.490	-34.731	1.00	29.39		C
ANISOU	265	CB	ILE	A	354	3552	4334	3280	270	247	81	C
ATOM	266	CG1	ILE	A	354	41.620	15.001	-34.379	1.00	28.30		C
ANISOU	266	CG1	ILE	A	354	3451	4143	3159	368	206	-78	C
ATOM	267	CD1	ILE	A	354	40.879	14.705	-33.055	1.00	28.35		C
ANISOU	267	CD1	ILE	A	354	3501	3978	3294	389	104	-86	C
ATOM	268	CG2	ILE	A	354	40.373	17.085	-35.158	1.00	29.30		C
ANISOU	268	CG2	ILE	A	354	3629	4293	3209	219	176	185	C
ATOM	269	C	ILE	A	354	44.170	16.257	-35.328	1.00	31.76		C
ANISOU	269	C	ILE	A	354	3668	4847	3552	301	442	-15	C
ATOM	270	O	ILE	A	354	44.603	15.135	-35.611	1.00	32.13		O
ANISOU	270	O	ILE	A	354	3703	4946	3559	394	471	-157	O
ATOM	271	N	ARG	A	355	44.834	17.127	-34.571	1.00	31.99		N
ANISOU	271	N	ARG	A	355	3606	4847	3703	249	457	49	N
ATOM	272	CA	ARG	A	355	46.027	16.753	-33.847	1.00	32.46		C
ANISOU	272	CA	ARG	A	355	3536	4929	3866	306	483	-44	C
ATOM	273	CB	ARG	A	355	46.987	17.948	-33.720	1.00	34.26		C
ANISOU	273	CB	ARG	A	355	3637	5219	4163	198	559	35	C
ATOM	274	CG	ARG	A	355	47.656	18.288	-35.032	1.00	39.00		C
ANISOU	274	CG	ARG	A	355	4181	5997	4639	132	708	67	C
ATOM	275	CD	ARG	A	355	48.600	19.431	-34.872	1.00	45.77		C
ANISOU	275	CD	ARG	A	355	4910	6902	5578	6	790	144	C
ATOM	276	NE	ARG	A	355	48.574	20.333	-36.023	1.00	52.25		N
ANISOU	276	NE	ARG	A	355	5764	7806	6284	-123	901	284	N
ATOM	277	CZ	ARG	A	355	49.146	21.539	-36.057	1.00	56.14		C
ANISOU	277	CZ	ARG	A	355	6188	8307	6837	-272	980	398	C
ATOM	278	NH1	ARG	A	355	49.801	22.023	-34.996	1.00	55.45		N
ANISOU	278	NH1	ARG	A	355	5982	8157	6928	-320	956	369	N
ATOM	279	NH2	ARG	A	355	49.061	22.269	-37.166	1.00	58.73		N
ANISOU	279	NH2	ARG	A	355	6571	8703	7040	-381	1083	542	N
ATOM	280	C	ARG	A	355	45.608	16.213	-32.488	1.00	29.93		C
ANISOU	280	C	ARG	A	355	3252	4453	3666	379	359	-91	C
ATOM	281	O	ARG	A	355	45.187	16.959	-31.616	1.00	28.02		O
ANISOU	281	O	ARG	A	355	3025	4108	3513	324	295	-17	O
ATOM	282	N	VAL	A	356	45.705	14.897	-32.339	1.00	28.99		N
ANISOU	282	N	VAL	A	356	3158	4313	3543	504	331	-216	N
ATOM	283	CA	VAL	A	356	45.350	14.233	-31.098	1.00	27.31		C
ANISOU	283	CA	VAL	A	356	2994	3955	3426	581	223	-254	C
ATOM	284	CB	VAL	A	356	45.003	12.746	-31.341	1.00	27.54		C
ANISOU	284	CB	VAL	A	356	3118	3930	3417	695	198	-368	C
ATOM	285	CG1	VAL	A	356	44.842	11.989	-30.014	1.00	27.23		C
ANISOU	285	CG1	VAL	A	356	3128	3741	3479	780	99	-394	C
ATOM	286	CG2	VAL	A	356	43.732	12.634	-32.157	1.00	26.35		C
ANISOU	286	CG2	VAL	A	356	3094	3753	3164	637	186	-350	C
ATOM	287	C	VAL	A	356	46.460	14.367	-30.058	1.00	26.67		C
ANISOU	287	C	VAL	A	356	2786	3889	3460	624	204	-279	C
ATOM	288	O	VAL	A	356	47.604	14.038	-30.324	1.00	28.57		O
ANISOU	288	O	VAL	A	356	2907	4239	3708	689	263	-354	O
ATOM	289	N	HIS	A	357	46.128	14.879	-28.884	1.00	25.43		N
ANISOU	289	N	HIS	A	357	2642	3635	3385	590	121	-224	N
ATOM	290	CA	HIS	A	357	47.107	14.993	-27.808	1.00	25.05		C
ANISOU	290	CA	HIS	A	357	2478	3607	3433	631	79	-254	C
ATOM	291	CB	HIS	A	357	46.849	16.229	-26.954	1.00	23.90		C
ANISOU	291	CB	HIS	A	357	2315	3412	3353	517	36	-177	C
ATOM	292	CG	HIS	A	357	47.266	17.509	-27.615	1.00	24.64		C
ANISOU	292	CG	HIS	A	357	2322	3585	3457	380	123	-117	C
ATOM	293	ND1	HIS	A	357	48.390	18.216	-27.235	1.00	25.54		N
ANISOU	293	ND1	HIS	A	357	2277	3779	3648	325	146	-136	N
ATOM	294	CE1	HIS	A	357	48.507	19.290	-27.995	1.00	24.49		C
ANISOU	294	CE1	HIS	A	357	2110	3684	3511	188	235	-62	C
ATOM	295	NE2	HIS	A	357	47.505	19.300	-28.857	1.00	25.00		N
ANISOU	295	NE2	HIS	A	357	2307	3703	3488	167	263	9	N
ATOM	296	CD2	HIS	A	357	46.725	18.191	-28.652	1.00	22.30		C
ANISOU	296	CD2	HIS	A	357	2077	3296	3100	282	192	-34	C
ATOM	297	C	HIS	A	357	47.122	13.716	-26.984	1.00	25.08		C
ANISOU	297	C	HIS	A	357	2536	3529	3463	781	-5	-319	C
ATOM	298	O	HIS	A	357	46.079	13.215	-26.573	1.00	24.14		O
ANISOU	298	O	HIS	A	357	2561	3280	3330	795	-66	-297	O
ATOM	299	N	GLU	A	358	48.322	13.175	-26.778	1.00	25.97		N

Figure 18 (continued)

ANISOU	299	N	GLU	A	358	2530	3722	3616	895	-6	-397	N
ATOM	300	CA	GLU	A	358	48.492	11.913	-26.065	1.00	25.43		C
ANISOU	300	CA	GLU	A	358	2512	3575	3577	1062	-86	-451	C
ATOM	301	CB	GLU	A	358	49.224	10.905	-26.939	1.00	26.70		C
ANISOU	301	CB	GLU	A	358	2626	3796	3722	1198	-23	-558	C
ATOM	302	CG	GLU	A	358	48.506	10.641	-28.264	1.00	26.20		C
ANISOU	302	CG	GLU	A	358	2661	3726	3567	1151	64	-583	C
ATOM	303	CD	GLU	A	358	49.340	9.852	-29.243	1.00	28.06		C
ANISOU	303	CD	GLU	A	358	2826	4059	3777	1267	151	-709	C
ATOM	304	OE1	GLU	A	358	50.595	9.994	-29.261	1.00	27.40		O
ANISOU	304	OE1	GLU	A	358	2558	4117	3735	1329	192	-763	O
ATOM	305	OE2	GLU	A	358	48.730	9.082	-30.014	1.00	28.42		O
ANISOU	305	OE2	GLU	A	358	2993	4046	3760	1295	181	-767	O
ATOM	306	C	GLU	A	358	49.233	12.107	-24.751	1.00	25.42		C
ANISOU	306	C	GLU	A	358	2416	3596	3646	1113	-180	-446	C
ATOM	307	O	GLU	A	358	50.317	12.638	-24.734	1.00	25.81		O
ANISOU	307	O	GLU	A	358	2285	3785	3737	1107	-159	-481	O
ATOM	308	N	GLY	A	359	48.608	11.697	-23.651	1.00	24.36		N
ANISOU	308	N	GLY	A	359	2405	3335	3518	1152	-283	-403	N
ATOM	309	CA	GLY	A	359	49.203	11.836	-22.335	1.00	23.73		C
ANISOU	309	CA	GLY	A	359	2258	3280	3476	1204	-388	-394	C
ATOM	310	C	GLY	A	359	48.271	12.445	-21.311	1.00	22.21		C
ANISOU	310	C	GLY	A	359	2168	3005	3267	1103	-452	-318	C
ATOM	311	O	GLY	A	359	47.324	13.163	-21.653	1.00	21.39		O
ANISOU	311	O	GLY	A	359	2131	2854	3144	965	-404	-274	O
ATOM	312	N	TYR	A	360	48.535	12.139	-20.049	1.00	22.42		N
ANISOU	312	N	TYR	A	360	2206	3018	3293	1183	-562	-305	N
ATOM	313	CA	TYR	A	360	47.836	12.761	-18.939	1.00	22.10		C
ANISOU	313	CA	TYR	A	360	2238	2934	3226	1096	-623	-252	C
ATOM	314	CB	TYR	A	360	48.072	11.966	-17.646	1.00	23.09		C
ANISOU	314	CB	TYR	A	360	2423	3034	3318	1228	-745	-227	C
ATOM	315	CG	TYR	A	360	47.620	12.724	-16.422	1.00	22.63		C
ANISOU	315	CG	TYR	A	360	2399	2981	3217	1141	-809	-196	C
ATOM	316	CD1	TYR	A	360	46.261	12.802	-16.094	1.00	21.89		C
ANISOU	316	CD1	TYR	A	360	2469	2771	3076	1053	-784	-137	C
ATOM	317	CE1	TYR	A	360	45.826	13.516	-14.980	1.00	22.60		C
ANISOU	317	CE1	TYR	A	360	2589	2877	3121	976	-829	-125	C
ATOM	318	CZ	TYR	A	360	46.759	14.181	-14.201	1.00	23.69		C
ANISOU	318	CZ	TYR	A	360	2599	3145	3259	979	-908	-177	C
ATOM	319	OH	TYR	A	360	46.326	14.889	-13.103	1.00	24.72		O
ANISOU	319	OH	TYR	A	360	2764	3296	3335	903	-950	-184	O
ATOM	320	CE2	TYR	A	360	48.122	14.118	-14.506	1.00	23.39		C
ANISOU	320	CE2	TYR	A	360	2391	3226	3272	1057	-943	-234	C
ATOM	321	CD2	TYR	A	360	48.543	13.397	-15.617	1.00	21.33		C
ANISOU	321	CD2	TYR	A	360	2094	2952	3059	1140	-889	-241	C
ATOM	322	C	TYR	A	360	48.232	14.229	-18.731	1.00	21.86		C
ANISOU	322	C	TYR	A	360	2068	3007	3231	959	-615	-276	C
ATOM	323	O	TYR	A	360	49.413	14.553	-18.673	1.00	23.34		O
ANISOU	323	O	TYR	A	360	2082	3326	3462	981	-634	-333	O
ATOM	324	N	GLU	A	361	47.237	15.100	-18.598	1.00	21.04		N
ANISOU	324	N	GLU	A	361	2037	2837	3118	821	-587	-239	N
ATOM	325	CA	GLU	A	361	47.450	16.524	-18.288	1.00	21.68		C
ANISOU	325	CA	GLU	A	361	2021	2973	3244	684	-582	-262	C
ATOM	326	CB	GLU	A	361	47.406	17.391	-19.552	1.00	20.98		C
ANISOU	326	CB	GLU	A	361	1876	2893	3201	564	-469	-250	C
ATOM	327	CG	GLU	A	361	48.599	17.217	-20.468	1.00	24.43		C
ANISOU	327	CG	GLU	A	361	2161	3450	3670	596	-412	-291	C
ATOM	328	CD	GLU	A	361	48.413	17.894	-21.813	1.00	22.96		C
ANISOU	328	CD	GLU	A	361	1960	3269	3496	484	-289	-254	C
ATOM	329	OE1	GLU	A	361	47.351	17.715	-22.440	1.00	20.90		O
ANISOU	329	OE1	GLU	A	361	1833	2919	3188	469	-249	-198	O
ATOM	330	OE2	GLU	A	361	49.338	18.607	-22.238	1.00	26.07		O
ANISOU	330	OE2	GLU	A	361	2204	3762	3940	408	-232	-278	O
ATOM	331	C	GLU	A	361	46.384	17.031	-17.332	1.00	20.41		C
ANISOU	331	C	GLU	A	361	1975	2727	3053	614	-618	-235	C
ATOM	332	O	GLU	A	361	45.240	16.587	-17.379	1.00	19.53		O
ANISOU	332	O	GLU	A	361	2009	2512	2900	617	-599	-184	O
ATOM	333	N	GLU	A	362	46.774	17.961	-16.476	1.00	21.16		N
ANISOU	333	N	GLU	A	362	1994	2876	3172	547	-666	-282	N
ATOM	334	CA	GLU	A	362	45.841	18.688	-15.628	1.00	22.46		C
ANISOU	334	CA	GLU	A	362	2243	2974	3317	465	-683	-283	C

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Figure 18 (continued)

ATOM	335	CB	GLU	A	362	46.105	18.430	-14.141	1.00	22.93		C
ANISOU	335	CB	GLU	A	362	2317	3092	3304	522	-796	-319	C
ATOM	336	CG	GLU	A	362	45.054	19.016	-13.191	1.00	23.73		C
ANISOU	336	CG	GLU	A	362	2522	3135	3361	454	-803	-328	C
ATOM	337	CD	GLU	A	362	45.445	18.797	-11.736	1.00	26.51		C
ANISOU	337	CD	GLU	A	362	2881	3575	3616	507	-916	-369	C
ATOM	338	OE1	GLU	A	362	44.878	17.909	-11.080	1.00	31.01		O
ANISOU	338	OE1	GLU	A	362	3579	4121	4081	581	-946	-311	O
ATOM	339	OE2	GLU	A	362	46.357	19.496	-11.254	1.00	32.87		O
ANISOU	339	OE2	GLU	A	362	3562	4482	4446	471	-977	-458	O
ATOM	340	C	GLU	A	362	45.923	20.184	-15.927	1.00	22.18		C
ANISOU	340	C	GLU	A	362	2128	2929	3372	317	-633	-319	C
ATOM	341	O	GLU	A	362	47.018	20.735	-16.087	1.00	23.04		O
ANISOU	341	O	GLU	A	362	2089	3123	3544	271	-636	-371	O
ATOM	342	N	PHE	A	363	44.759	20.825	-15.996	1.00	21.18		N
ANISOU	342	N	PHE	A	363	2095	2693	3259	243	-588	-290	N
ATOM	343	CA	PHE	A	363	44.646	22.260	-16.286	1.00	21.78		C
ANISOU	343	CA	PHE	A	363	2129	2714	3431	111	-538	-309	C
ATOM	344	CB	PHE	A	363	44.028	22.491	-17.691	1.00	20.64		C
ANISOU	344	CB	PHE	A	363	2025	2495	3323	74	-443	-220	C
ATOM	345	CG	PHE	A	363	44.832	21.911	-18.837	1.00	21.21		C
ANISOU	345	CG	PHE	A	363	2029	2642	3388	104	-397	-186	C
ATOM	346	CD1	PHE	A	363	45.831	22.663	-19.453	1.00	20.96		C
ANISOU	346	CD1	PHE	A	363	1874	2663	3429	19	-346	-195	C
ATOM	347	CE1	PHE	A	363	46.570	22.150	-20.514	1.00	21.38		C
ANISOU	347	CE1	PHE	A	363	1855	2803	3465	45	-287	-172	C
ATOM	348	CZ	PHE	A	363	46.313	20.885	-20.998	1.00	18.73		C
ANISOU	348	CZ	PHE	A	363	1579	2489	3048	163	-284	-150	C
ATOM	349	CE2	PHE	A	363	45.316	20.123	-20.407	1.00	20.47		C
ANISOU	349	CE2	PHE	A	363	1932	2638	3209	242	-340	-139	C
ATOM	350	CD2	PHE	A	363	44.570	20.637	-19.319	1.00	18.91		C
ANISOU	350	CD2	PHE	A	363	1799	2365	3021	209	-392	-151	C
ATOM	351	C	PHE	A	363	43.738	22.994	-15.315	1.00	21.72		C
ANISOU	351	C	PHE	A	363	2196	2632	3426	65	-558	-349	C
ATOM	352	O	PHE	A	363	42.737	22.439	-14.830	1.00	20.51		O
ANISOU	352	O	PHE	A	363	2152	2441	3199	117	-569	-326	O
ATOM	353	N	THR	A	364	44.060	24.266	-15.070	1.00	22.89		N
ANISOU	353	N	THR	A	364	2282	2752	3664	-41	-553	-414	N
ATOM	354	CA	THR	A	364	43.032	25.177	-14.615	1.00	23.63		C
ANISOU	354	CA	THR	A	364	2449	2733	3796	-93	-534	-443	C
ATOM	355	CB	THR	A	364	43.500	26.176	-13.539	1.00	25.43		C
ANISOU	355	CB	THR	A	364	2624	2968	4069	-171	-580	-577	C
ATOM	356	OG1	THR	A	364	44.450	27.087	-14.102	1.00	29.67		O
ANISOU	356	OG1	THR	A	364	3054	3489	4730	-281	-554	-601	O
ATOM	357	CG2	THR	A	364	44.117	25.466	-12.315	1.00	24.74		C
ANISOU	357	CG2	THR	A	364	2509	3025	3866	-111	-682	-657	C
ATOM	358	C	THR	A	364	42.480	25.903	-15.855	1.00	23.68		C
ANISOU	358	C	THR	A	364	2479	2620	3896	-148	-448	-357	C
ATOM	359	O	THR	A	364	43.224	26.192	-16.803	1.00	23.87		O
ANISOU	359	O	THR	A	364	2436	2655	3980	-201	-406	-313	O
ATOM	360	N	MSE	A	365	41.172	26.145	-15.860	1.00	22.96		N
ANISOU	360	N	MSE	A	365	2483	2430	3811	-130	-423	-327	N
ATOM	361	CA	MSE	A	365	40.493	26.940	-16.879	1.00	23.90		C
ANISOU	361	CA	MSE	A	365	2637	2429	4017	-165	-361	-246	C
ATOM	362	CB	MSE	A	365	39.333	26.162	-17.525	1.00	22.98		C
ANISOU	362	CB	MSE	A	365	2597	2301	3833	-88	-343	-155	C
ATOM	363	CG	MSE	A	365	39.696	24.837	-18.242	1.00	23.11		C
ANISOU	363	CG	MSE	A	365	2611	2416	3753	-32	-341	-95	C
ATOM	364	SE	MSE	A	365	38.160	23.718	-18.667	0.90	26.48		SE
ANISOU	364	SE	MSE	A	365	3137	2833	4091	49	-336	-31	SE
ATOM	365	CE	MSE	A	365	37.026	25.011	-19.510	1.00	21.85		C
ANISOU	365	CE	MSE	A	365	2574	2128	3599	18	-301	38	C
ATOM	366	C	MSE	A	365	39.916	28.149	-16.156	1.00	23.45		C
ANISOU	366	C	MSE	A	365	2605	2254	4051	-209	-361	-322	C
ATOM	367	O	MSE	A	365	39.223	27.994	-15.148	1.00	23.44		O
ANISOU	367	O	MSE	A	365	2645	2258	4002	-167	-386	-396	O
ATOM	368	N	VAL	A	366	40.215	29.346	-16.654	1.00	23.42		N
ANISOU	368	N	VAL	A	366	2581	2139	4177	-293	-326	-306	N
ATOM	369	CA	VAL	A	366	39.691	30.586	-16.090	1.00	23.54		C
ANISOU	369	CA	VAL	A	366	2629	2009	4308	-331	-319	-382	C
ATOM	370	CB	VAL	A	366	40.833	31.452	-15.443	1.00	25.39		C

Figure 18 (continued)

ANISOU	370	CB	VAL	A	366	2793	2224	4631	-448	-336	-505	C
ATOM	371	CG1	VAL	A	366	40.312	32.803	-14.943	1.00	25.44		C
ANISOU	371	CG1	VAL	A	366	2842	2047	4776	-492	-323	-594	C
ATOM	372	CG2	VAL	A	366	41.533	30.678	-14.298	1.00	25.91		C
ANISOU	372	CG2	VAL	A	366	2801	2461	4582	-433	-406	-628	C
ATOM	373	C	VAL	A	366	38.916	31.393	-17.163	1.00	24.02		C
ANISOU	373	C	VAL	A	366	2745	1911	4469	-329	-270	-260	C
ATOM	374	O	VAL	A	366	39.498	31.895	-18.140	1.00	24.09		O
ANISOU	374	O	VAL	A	366	2741	1868	4545	-398	-232	-164	O
ATOM	375	N	GLY	A	367	37.609	31.524	-16.962	1.00	23.61		N
ANISOU	375	N	GLY	A	367	2753	1792	4425	-248	-271	-262	N
ATOM	376	CA	GLY	A	367	36.782	32.410	-17.779	1.00	25.53		C
ANISOU	376	CA	GLY	A	367	3047	1876	4776	-223	-244	-164	C
ATOM	377	C	GLY	A	367	36.277	33.660	-17.044	1.00	27.40		C
ANISOU	377	C	GLY	A	367	3313	1940	5157	-225	-240	-269	C
ATOM	378	O	GLY	A	367	36.620	33.896	-15.876	1.00	28.05		O
ANISOU	378	O	GLY	A	367	3375	2032	5251	-261	-254	-435	O
ATOM	379	N	LYS	A	368	35.459	34.461	-17.728	1.00	28.02		N
ANISOU	379	N	LYS	A	368	3442	1863	5342	-177	-225	-178	N
ATOM	380	CA	LYS	A	368	34.815	35.621	-17.111	1.00	30.01		C
ANISOU	380	CA	LYS	A	368	3727	1931	5744	-146	-219	-276	C
ATOM	381	CB	LYS	A	368	34.065	36.473	-18.152	1.00	31.76		C
ANISOU	381	CB	LYS	A	368	4007	1974	6086	-83	-211	-125	C
ATOM	382	CG	LYS	A	368	34.947	37.212	-19.147	1.00	36.76		C
ANISOU	382	CG	LYS	A	368	4677	2481	6808	-185	-185	20	C
ATOM	383	CD	LYS	A	368	34.052	37.959	-20.123	1.00	43.28		C
ANISOU	383	CD	LYS	A	368	5574	3141	7729	-94	-190	186	C
ATOM	384	CE	LYS	A	368	34.692	38.098	-21.504	1.00	48.10		C
ANISOU	384	CE	LYS	A	368	6224	3733	8319	-165	-165	410	C
ATOM	385	NZ	LYS	A	368	33.990	39.150	-22.301	1.00	50.85		N
ANISOU	385	NZ	LYS	A	368	6662	3864	8792	-92	-174	569	N
ATOM	386	C	LYS	A	368	33.837	35.243	-15.977	1.00	28.59		C
ANISOU	386	C	LYS	A	368	3533	1823	5507	-54	-230	-427	C
ATOM	387	O	LYS	A	368	33.803	35.912	-14.963	1.00	28.78		O
ANISOU	387	O	LYS	A	368	3561	1774	5601	-66	-224	-594	O
ATOM	388	N	ARG	A	369	33.047	34.184	-16.141	1.00	26.59		N
ANISOU	388	N	ARG	A	369	3264	1712	5126	28	-239	-377	N
ATOM	389	CA	ARG	A	369	32.032	33.851	-15.117	1.00	25.86		C
ANISOU	389	CA	ARG	A	369	3155	1690	4982	105	-231	-507	C
ATOM	390	CB	ARG	A	369	30.615	34.105	-15.636	1.00	26.07		C
ANISOU	390	CB	ARG	A	369	3177	1657	5072	225	-227	-447	C
ATOM	391	CG	ARG	A	369	30.370	35.495	-16.189	1.00	28.17		C
ANISOU	391	CG	ARG	A	369	3477	1696	5532	264	-228	-403	C
ATOM	392	CD	ARG	A	369	28.865	35.741	-16.363	1.00	30.60		C
ANISOU	392	CD	ARG	A	369	3757	1968	5902	411	-232	-393	C
ATOM	393	NE	ARG	A	369	28.465	36.887	-15.535	1.00	37.04		N
ANISOU	393	NE	ARG	A	369	4580	2621	6871	463	-207	-550	N
ATOM	394	CZ	ARG	A	369	27.527	36.892	-14.591	1.00	37.12		C
ANISOU	394	CZ	ARG	A	369	4542	2678	6882	543	-176	-709	C
ATOM	395	NH1	ARG	A	369	26.793	35.818	-14.317	1.00	34.10		N
ANISOU	395	NH1	ARG	A	369	4097	2499	6360	575	-163	-727	N
ATOM	396	NH2	ARG	A	369	27.296	38.024	-13.941	1.00	43.52		N
ANISOU	396	NH2	ARG	A	369	5369	3322	7847	590	-151	-856	N
ATOM	397	C	ARG	A	369	32.135	32.449	-14.526	1.00	23.85		C
ANISOU	397	C	ARG	A	369	2878	1646	4537	96	-238	-539	C
ATOM	398	O	ARG	A	369	31.300	32.046	-13.716	1.00	22.65		O
ANISOU	398	O	ARG	A	369	2714	1571	4319	145	-220	-626	O
ATOM	399	N	ALA	A	370	33.158	31.705	-14.934	1.00	23.31		N
ANISOU	399	N	ALA	A	370	2805	1669	4383	35	-258	-466	N
ATOM	400	CA	ALA	A	370	33.390	30.376	-14.395	1.00	22.66		C
ANISOU	400	CA	ALA	A	370	2715	1763	4132	32	-271	-485	C
ATOM	401	CB	ALA	A	370	32.551	29.299	-15.160	1.00	21.26		C
ANISOU	401	CB	ALA	A	370	2543	1663	3872	89	-268	-369	C
ATOM	402	C	ALA	A	370	34.875	30.034	-14.427	1.00	22.52		C
ANISOU	402	C	ALA	A	370	2679	1811	4069	-42	-299	-476	C
ATOM	403	O	ALA	A	370	35.619	30.550	-15.262	1.00	23.04		O
ANISOU	403	O	ALA	A	370	2730	1812	4213	-93	-297	-408	O
ATOM	404	N	THR	A	371	35.290	29.169	-13.503	1.00	22.37		N
ANISOU	404	N	THR	A	371	2656	1925	3920	-44	-324	-542	N
ATOM	405	CA	THR	A	371	36.622	28.573	-13.512	1.00	22.86		C
ANISOU	405	CA	THR	A	371	2686	2083	3918	-84	-362	-529	C

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Figure 18 (continued)

ATOM	406	CB	THR	A	371	37.577	29.196	-12.446	1.00	24.26		C
ANISOU	406	CB	THR	A	371	2826	2283	4108	-147	-400	-676	C
ATOM	407	OG1	THR	A	371	37.179	28.782	-11.144	1.00	27.06		O
ANISOU	407	OG1	THR	A	371	3210	2727	4343	-114	-419	-776	O
ATOM	408	CG2	THR	A	371	37.597	30.704	-12.518	1.00	22.87		C
ANISOU	408	CG2	THR	A	371	2640	1949	4099	-210	-377	-743	C
ATOM	409	C	THR	A	371	36.510	27.054	-13.335	1.00	21.90		C
ANISOU	409	C	THR	A	371	2588	2092	3640	-29	-380	-480	C
ATOM	410	O	THR	A	371	35.451	26.546	-12.967	1.00	22.77		O
ANISOU	410	O	THR	A	371	2742	2223	3688	15	-360	-478	O
ATOM	411	N	ALA	A	372	37.576	26.312	-13.616	1.00	21.17		N
ANISOU	411	N	ALA	A	372	2467	2082	3493	-32	-413	-439	N
ATOM	412	CA	ALA	A	372	37.495	24.865	-13.505	1.00	19.77		C
ANISOU	412	CA	ALA	A	372	2327	1997	3186	28	-430	-386	C
ATOM	413	CB	ALA	A	372	36.796	24.241	-14.737	1.00	18.33		C
ANISOU	413	CB	ALA	A	372	2174	1784	3006	59	-394	-271	C
ATOM	414	C	ALA	A	372	38.835	24.237	-13.308	1.00	19.97		C
ANISOU	414	C	ALA	A	372	2310	2121	3156	39	-484	-393	C
ATOM	415	O	ALA	A	372	39.853	24.849	-13.608	1.00	20.79		O
ANISOU	415	O	ALA	A	372	2337	2231	3330	-8	-497	-419	O
ATOM	416	N	ILE	A	373	38.816	23.010	-12.789	1.00	19.57		N
ANISOU	416	N	ILE	A	373	2308	2144	2983	102	-514	-368	N
ATOM	417	CA	ILE	A	373	39.963	22.112	-12.831	1.00	19.72		C
ANISOU	417	CA	ILE	A	373	2295	2249	2948	151	-568	-345	C
ATOM	418	CB	ILE	A	373	40.416	21.607	-11.444	1.00	20.88		C
ANISOU	418	CB	ILE	A	373	2464	2493	2978	193	-643	-394	C
ATOM	419	CG1	ILE	A	373	40.502	22.762	-10.432	1.00	22.57		C
ANISOU	419	CG1	ILE	A	373	2645	2729	3201	130	-667	-517	C
ATOM	420	CD1	ILE	A	373	40.936	22.348	-8.989	1.00	22.21		C
ANISOU	420	CD1	ILE	A	373	2624	2805	3011	169	-752	-574	C
ATOM	421	CG2	ILE	A	373	41.764	20.932	-11.585	1.00	18.66		C
ANISOU	421	CG2	ILE	A	373	2115	2300	2676	252	-710	-381	C
ATOM	422	C	ILE	A	373	39.645	20.919	-13.691	1.00	18.62		C
ANISOU	422	C	ILE	A	373	2207	2092	2774	209	-544	-246	C
ATOM	423	O	ILE	A	373	38.635	20.253	-13.476	1.00	18.19		O
ANISOU	423	O	ILE	A	373	2241	2007	2662	231	-522	-209	O
ATOM	424	N	LEU	A	374	40.530	20.643	-14.656	1.00	18.68		N
ANISOU	424	N	LEU	A	374	2154	2125	2818	229	-542	-216	N
ATOM	425	CA	LEU	A	374	40.328	19.586	-15.652	1.00	16.99		C
ANISOU	425	CA	LEU	A	374	1981	1892	2582	281	-514	-144	C
ATOM	426	CB	LEU	A	374	40.251	20.197	-17.064	1.00	15.29		C
ANISOU	426	CB	LEU	A	374	1724	1644	2441	233	-453	-108	C
ATOM	427	CG	LEU	A	374	40.219	19.251	-18.265	1.00	15.44		C
ANISOU	427	CG	LEU	A	374	1766	1665	2434	277	-421	-57	C
ATOM	428	CD1	LEU	A	374	38.992	18.305	-18.302	1.00	14.91		C
ANISOU	428	CD1	LEU	A	374	1810	1543	2313	303	-413	-24	C
ATOM	429	CD2	LEU	A	374	40.303	20.021	-19.573	1.00	16.74		C
ANISOU	429	CD2	LEU	A	374	1884	1827	2651	222	-365	-20	C
ATOM	430	C	LEU	A	374	41.486	18.592	-15.607	1.00	17.53		C
ANISOU	430	C	LEU	A	374	2018	2033	2611	368	-562	-144	C
ATOM	431	O	LEU	A	374	42.663	19.008	-15.663	1.00	18.31		O
ANISOU	431	O	LEU	A	374	2004	2204	2748	365	-586	-185	O
ATOM	432	N	ARG	A	375	41.161	17.302	-15.495	1.00	16.74		N
ANISOU	432	N	ARG	A	375	2010	1906	2444	445	-575	-102	N
ATOM	433	CA	ARG	A	375	42.128	16.231	-15.749	1.00	17.32		C
ANISOU	433	CA	ARG	A	375	2066	2016	2497	550	-609	-93	C
ATOM	434	CB	ARG	A	375	42.224	15.233	-14.612	1.00	17.75		C
ANISOU	434	CB	ARG	A	375	2205	2070	2469	639	-680	-69	C
ATOM	435	CG	ARG	A	375	43.006	15.772	-13.443	1.00	18.20		C
ANISOU	435	CG	ARG	A	375	2196	2225	2493	651	-761	-113	C
ATOM	436	CD	ARG	A	375	42.926	14.833	-12.281	1.00	20.67		C
ANISOU	436	CD	ARG	A	375	2618	2538	2698	734	-831	-66	C
ATOM	437	NE	ARG	A	375	43.721	15.319	-11.164	1.00	22.34		N
ANISOU	437	NE	ARG	A	375	2762	2868	2856	753	-925	-115	N
ATOM	438	CZ	ARG	A	375	43.603	14.892	-9.911	1.00	24.36		C
ANISOU	438	CZ	ARG	A	375	3108	3157	2992	799	-993	-83	C
ATOM	439	NH1	ARG	A	375	42.718	13.955	-9.595	1.00	26.04		N
ANISOU	439	NH1	ARG	A	375	3486	3280	3130	822	-967	10	N
ATOM	440	NH2	ARG	A	375	44.383	15.409	-8.971	1.00	27.64		N
ANISOU	440	NH2	ARG	A	375	3448	3702	3353	812	-1089	-144	N
ATOM	441	C	ARG	A	375	41.742	15.522	-17.009	1.00	17.19		C

Figure 18 (continued)

ANISOU	441	C	ARG A 375	2092	1945	2495	569	-551	-62	C
ATOM	442	O	ARG A 375	40.566	15.227	-17.252	1.00	16.68		O
ANISOU	442	O	ARG A 375	2122	1802	2414	533	-514	-29	O
ATOM	443	N	LYS A 376	42.743	15.264	-17.830	1.00	17.94		N
ANISOU	443	N	LYS A 376	2106	2093	2619	621	-540	-83	N
ATOM	444	CA	LYS A 376	42.484	14.748	-19.154	1.00	18.80		C
ANISOU	444	CA	LYS A 376	2238	2172	2732	630	-477	-75	C
ATOM	445	CB	LYS A 376	42.485	15.948	-20.089	1.00	19.04		C
ANISOU	445	CB	LYS A 376	2186	2243	2804	530	-415	-73	C
ATOM	446	CG	LYS A 376	42.472	15.657	-21.514	1.00	22.12		C
ANISOU	446	CG	LYS A 376	2573	2649	3183	532	-351	-70	C
ATOM	447	CD	LYS A 376	43.216	16.738	-22.249	1.00	25.06		C
ANISOU	447	CD	LYS A 376	2826	3105	3592	464	-298	-68	C
ATOM	448	CE	LYS A 376	43.015	16.490	-23.721	1.00	26.93		C
ANISOU	448	CE	LYS A 376	3079	3367	3787	456	-227	-54	C
ATOM	449	NZ	LYS A 376	43.691	15.264	-24.120	1.00	27.50		N
ANISOU	449	NZ	LYS A 376	3143	3478	3828	566	-218	-111	N
ATOM	450	C	LYS A 376	43.569	13.729	-19.486	1.00	19.24		C
ANISOU	450	C	LYS A 376	2256	2266	2787	756	-493	-106	C
ATOM	451	O	LYS A 376	44.650	13.770	-18.915	1.00	20.06		O
ANISOU	451	O	LYS A 376	2269	2448	2907	818	-543	-135	O
ATOM	452	N	ALA A 377	43.257	12.766	-20.348	1.00	19.46		N
ANISOU	452	N	ALA A 377	2354	2239	2799	802	-456	-112	N
ATOM	453	CA	ALA A 377	44.251	11.822	-20.856	1.00	20.59		C
ANISOU	453	CA	ALA A 377	2459	2411	2953	930	-454	-160	C
ATOM	454	CB	ALA A 377	44.120	10.473	-20.155	1.00	20.90		C
ANISOU	454	CB	ALA A 377	2623	2340	2977	1047	-512	-144	C
ATOM	455	C	ALA A 377	44.003	11.728	-22.371	1.00	20.76		C
ANISOU	455	C	ALA A 377	2480	2447	2962	897	-367	-192	C
ATOM	456	O	ALA A 377	43.249	12.533	-22.902	1.00	20.64		O
ANISOU	456	O	ALA A 377	2473	2438	2933	780	-325	-163	O
ATOM	457	N	THR A 378	44.622	10.780	-23.061	1.00	22.11		N
ANISOU	457	N	THR A 378	2642	2627	3133	1005	-342	-253	N
ATOM	458	CA	THR A 378	44.428	10.601	-24.505	1.00	22.78		C
ANISOU	458	CA	THR A 378	2731	2741	3183	981	-260	-299	C
ATOM	459	CB	THR A 378	45.231	9.415	-25.017	1.00	23.45		C
ANISOU	459	CB	THR A 378	2808	2825	3277	1131	-241	-389	C
ATOM	460	OG1	THR A 378	46.575	9.539	-24.551	1.00	23.66		O
ANISOU	460	OG1	THR A 378	2689	2950	3349	1227	-263	-415	O
ATOM	461	CG2	THR A 378	45.203	9.355	-26.561	1.00	23.42		C
ANISOU	461	CG2	THR A 378	2787	2895	3216	1103	-145	-456	C
ATOM	462	C	THR A 378	42.959	10.423	-24.902	1.00	22.92		C
ANISOU	462	C	THR A 378	2886	2662	3160	891	-249	-274	C
ATOM	463	O	THR A 378	42.361	9.373	-24.664	1.00	23.13		O
ANISOU	463	O	THR A 378	3038	2563	3187	929	-277	-288	O
ATOM	464	N	ARG A 379	42.395	11.464	-25.505	1.00	23.07		N
ANISOU	464	N	ARG A 379	2878	2739	3150	770	-213	-235	N
ATOM	465	CA	ARG A 379	41.001	11.461	-25.957	1.00	23.17		C
ANISOU	465	CA	ARG A 379	2988	2693	3123	683	-211	-213	C
ATOM	466	CB	ARG A 379	40.838	10.623	-27.240	1.00	23.76		C
ANISOU	466	CB	ARG A 379	3108	2781	3137	707	-169	-291	C
ATOM	467	CG	ARG A 379	41.771	11.029	-28.390	1.00	23.77		C
ANISOU	467	CG	ARG A 379	3011	2933	3089	720	-95	-325	C
ATOM	468	CD	ARG A 379	41.330	10.371	-29.694	1.00	25.40		C
ANISOU	468	CD	ARG A 379	3277	3169	3207	718	-57	-401	C
ATOM	469	NE	ARG A 379	40.022	10.902	-30.106	1.00	24.50		N
ANISOU	469	NE	ARG A 379	3216	3051	3041	606	-80	-347	N
ATOM	470	CZ	ARG A 379	39.252	10.392	-31.059	1.00	24.10		C
ANISOU	470	CZ	ARG A 379	3232	3014	2911	577	-79	-404	C
ATOM	471	NH1	ARG A 379	39.641	9.323	-31.758	1.00	25.54		N
ANISOU	471	NH1	ARG A 379	3449	3204	3050	644	-47	-530	N
ATOM	472	NH2	ARG A 379	38.099	10.974	-31.317	1.00	22.39		N
ANISOU	472	NH2	ARG A 379	3041	2808	2658	485	-115	-345	N
ATOM	473	C	ARG A 379	40.061	10.981	-24.854	1.00	23.18		C
ANISOU	473	C	ARG A 379	3094	2563	3150	668	-268	-182	C
ATOM	474	O	ARG A 379	39.189	10.137	-25.092	1.00	24.70		O
ANISOU	474	O	ARG A 379	3388	2671	3327	652	-272	-208	O
ATOM	475	N	ARG A 380	40.242	11.534	-23.654	1.00	22.60		N
ANISOU	475	N	ARG A 380	2994	2481	3113	663	-306	-133	N
ATOM	476	CA	ARG A 380	39.482	11.149	-22.465	1.00	22.87		C
ANISOU	476	CA	ARG A 380	3120	2413	3156	648	-350	-96	C

Figure 18 (continued)

ATOM	477	CB	ARG	A	380	40.063	9.888	-21.829	1.00	23.67		C
ANISOU	477	CB	ARG	A	380	3291	2436	3267	763	-386	-109	C
ATOM	478	CG	ARG	A	380	39.313	9.349	-20.612	1.00	25.57		C
ANISOU	478	CG	ARG	A	380	3648	2566	3499	747	-421	-54	C
ATOM	479	CD	ARG	A	380	40.092	8.171	-20.021	1.00	30.01		C
ANISOU	479	CD	ARG	A	380	4280	3051	4071	882	-464	-48	C
ATOM	480	NE	ARG	A	380	39.887	8.025	-18.572	1.00	39.22		N
ANISOU	480	NE	ARG	A	380	5520	4172	5211	888	-512	30	N
ATOM	481	CZ	ARG	A	380	40.796	7.522	-17.733	1.00	40.49		C
ANISOU	481	CZ	ARG	A	380	5699	4323	5363	1013	-577	62	C
ATOM	482	NH1	ARG	A	380	41.968	7.110	-18.193	1.00	43.42		N
ANISOU	482	NH1	ARG	A	380	6006	4723	5768	1149	-600	15	N
ATOM	483	NH2	ARG	A	380	40.537	7.434	-16.435	1.00	42.81		N
ANISOU	483	NH2	ARG	A	380	6069	4590	5607	1008	-619	141	N
ATOM	484	C	ARG	A	380	39.490	12.279	-21.455	1.00	21.00		C
ANISOU	484	C	ARG	A	380	2828	2214	2937	601	-375	-50	C
ATOM	485	O	ARG	A	380	40.551	12.775	-21.067	1.00	20.79		O
ANISOU	485	O	ARG	A	380	2713	2256	2929	638	-393	-57	O
ATOM	486	N	LEU	A	381	38.288	12.705	-21.066	1.00	19.70		N
ANISOU	486	N	LEU	A	381	2706	2009	2769	514	-373	-18	N
ATOM	487	CA	LEU	A	381	38.090	13.567	-19.904	1.00	18.41		C
ANISOU	487	CA	LEU	A	381	2522	1857	2616	475	-396	9	C
ATOM	488	CB	LEU	A	381	36.745	14.289	-19.985	1.00	16.88		C
ANISOU	488	CB	LEU	A	381	2337	1645	2433	380	-372	26	C
ATOM	489	CG	LEU	A	381	36.469	15.343	-18.928	1.00	17.01		C
ANISOU	489	CG	LEU	A	381	2323	1675	2467	338	-382	32	C
ATOM	490	CD1	LEU	A	381	35.655	16.492	-19.499	1.00	12.78		C
ANISOU	490	CD1	LEU	A	381	1738	1145	1973	273	-356	41	C
ATOM	491	CD2	LEU	A	381	35.764	14.667	-17.749	1.00	15.08		C
ANISOU	491	CD2	LEU	A	381	2164	1384	2181	330	-388	44	C
ATOM	492	C	LEU	A	381	38.123	12.638	-18.694	1.00	18.24		C
ANISOU	492	C	LEU	A	381	2589	1780	2564	525	-433	27	C
ATOM	493	O	LEU	A	381	37.296	11.748	-18.564	1.00	17.60		O
ANISOU	493	O	LEU	A	381	2610	1616	2464	509	-422	44	O
ATOM	494	N	VAL	A	382	39.085	12.854	-17.814	1.00	18.87		N
ANISOU	494	N	VAL	A	382	2628	1907	2635	580	-480	26	N
ATOM	495	CA	VAL	A	382	39.212	12.031	-16.604	1.00	19.46		C
ANISOU	495	CA	VAL	A	382	2791	1944	2660	640	-528	61	C
ATOM	496	CB	VAL	A	382	40.671	11.956	-16.074	1.00	19.74		C
ANISOU	496	CB	VAL	A	382	2760	2052	2688	749	-598	48	C
ATOM	497	CG1	VAL	A	382	40.736	11.203	-14.743	1.00	20.37		C
ANISOU	497	CG1	VAL	A	382	2942	2102	2697	814	-661	104	C
ATOM	498	CG2	VAL	A	382	41.561	11.303	-17.093	1.00	19.70		C
ANISOU	498	CG2	VAL	A	382	2711	2051	2723	843	-593	16	C
ATOM	499	C	VAL	A	382	38.274	12.584	-15.548	1.00	19.47		C
ANISOU	499	C	VAL	A	382	2832	1944	2622	558	-521	84	C
ATOM	500	O	VAL	A	382	37.472	11.840	-14.971	1.00	19.89		O
ANISOU	500	O	VAL	A	382	2999	1928	2631	538	-507	128	O
ATOM	501	N	GLN	A	383	38.362	13.885	-15.307	1.00	18.92		N
ANISOU	501	N	GLN	A	383	2671	1946	2571	507	-521	49	N
ATOM	502	CA	GLN	A	383	37.483	14.517	-14.335	1.00	20.00		C
ANISOU	502	CA	GLN	A	383	2833	2091	2675	436	-506	46	C
ATOM	503	CB	GLN	A	383	37.874	14.122	-12.908	1.00	21.18		C
ANISOU	503	CB	GLN	A	383	3042	2275	2732	481	-560	66	C
ATOM	504	CG	GLN	A	383	36.899	14.605	-11.894	1.00	28.38		C
ANISOU	504	CG	GLN	A	383	3993	3203	3587	409	-528	59	C
ATOM	505	CD	GLN	A	383	36.981	13.887	-10.544	1.00	37.43		C
ANISOU	505	CD	GLN	A	383	5244	4372	4605	445	-564	109	C
ATOM	506	OE1	GLN	A	383	38.033	13.320	-10.146	1.00	36.64		O
ANISOU	506	OE1	GLN	A	383	5163	4301	4457	540	-643	139	O
ATOM	507	NE2	GLN	A	383	35.848	13.911	-9.823	1.00	39.52		N
ANISOU	507	NE2	GLN	A	383	5575	4633	4808	372	-503	122	N
ATOM	508	C	GLN	A	383	37.476	16.041	-14.523	1.00	18.54		C
ANISOU	508	C	GLN	A	383	2542	1952	2551	374	-491	-8	C
ATOM	509	O	GLN	A	383	38.482	16.611	-14.934	1.00	18.67		O
ANISOU	509	O	GLN	A	383	2468	2013	2613	390	-513	-37	O
ATOM	510	N	LEU	A	384	36.330	16.663	-14.252	1.00	16.78		N
ANISOU	510	N	LEU	A	384	2330	1708	2337	305	-448	-21	N
ATOM	511	CA	LEU	A	384	36.156	18.111	-14.349	1.00	16.11		C
ANISOU	511	CA	LEU	A	384	2165	1634	2321	254	-431	-70	C
ATOM	512	CB	LEU	A	384	35.379	18.478	-15.633	1.00	14.20		C

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Figure 18 (continued)

ANISOU	512	CB	LEU A 384	1897	1346	2153	221	-387	-47	C
ATOM	513	CG	LEU A 384	35.100	19.947	-15.893	1.00	15.78		C
ANISOU	513	CG	LEU A 384	2031	1526	2439	180	-369	-75	C
ATOM	514	CD1	LEU A 384	36.401	20.725	-16.207	1.00	10.81		C
ANISOU	514	CD1	LEU A 384	1330	915	1863	174	-391	-92	C
ATOM	515	CD2	LEU A 384	34.054	20.107	-16.999	1.00	14.91		C
ANISOU	515	CD2	LEU A 384	1914	1378	2373	164	-338	-36	C
ATOM	516	C	LEU A 384	35.367	18.584	-13.150	1.00	16.11		C
ANISOU	516	C	LEU A 384	2191	1646	2283	219	-413	-111	C
ATOM	517	O	LEU A 384	34.264	18.059	-12.911	1.00	16.54		O
ANISOU	517	O	LEU A 384	2303	1680	2301	197	-371	-89	O
ATOM	518	N	ILE A 385	35.903	19.575	-12.422	1.00	16.23		N
ANISOU	518	N	ILE A 385	2159	1700	2309	206	-439	-182	N
ATOM	519	CA	ILE A 385	35.136	20.337	-11.409	1.00	17.22		C
ANISOU	519	CA	ILE A 385	2291	1838	2415	170	-411	-252	C
ATOM	520	CB	ILE A 385	35.776	20.285	-9.974	1.00	19.18		C
ANISOU	520	CB	ILE A 385	2565	2173	2549	183	-460	-306	C
ATOM	521	CG1	ILE A 385	36.149	18.859	-9.636	1.00	21.06		C
ANISOU	521	CG1	ILE A 385	2884	2446	2673	236	-496	-222	C
ATOM	522	CD1	ILE A 385	37.060	18.725	-8.443	1.00	25.03		C
ANISOU	522	CD1	ILE A 385	3405	3048	3060	273	-575	-251	C
ATOM	523	CG2	ILE A 385	34.780	20.792	-8.871	1.00	18.63		C
ANISOU	523	CG2	ILE A 385	2525	2131	2421	148	-410	-379	C
ATOM	524	C	ILE A 385	35.022	21.812	-11.817	1.00	17.38		C
ANISOU	524	C	ILE A 385	2235	1809	2560	134	-392	-315	C
ATOM	525	O	ILE A 385	36.038	22.477	-12.052	1.00	16.35		O
ANISOU	525	O	ILE A 385	2047	1678	2489	122	-428	-346	O
ATOM	526	N	VAL A 386	33.788	22.308	-11.888	1.00	17.59		N
ANISOU	526	N	VAL A 386	2260	1791	2632	116	-336	-334	N
ATOM	527	CA	VAL A 386	33.497	23.673	-12.328	1.00	17.46		C
ANISOU	527	CA	VAL A 386	2187	1700	2747	99	-317	-379	C
ATOM	528	CB	VAL A 386	32.501	23.721	-13.521	1.00	17.32		C
ANISOU	528	CB	VAL A 386	2153	1623	2805	111	-285	-308	C
ATOM	529	CG1	VAL A 386	32.435	25.126	-14.121	1.00	14.48		C
ANISOU	529	CG1	VAL A 386	1746	1168	2586	108	-281	-322	C
ATOM	530	CG2	VAL A 386	32.875	22.722	-14.622	1.00	14.00		C
ANISOU	530	CG2	VAL A 386	1747	1216	2356	121	-303	-206	C
ATOM	531	C	VAL A 386	32.924	24.512	-11.181	1.00	19.48		C
ANISOU	531	C	VAL A 386	2439	1958	3003	89	-289	-498	C
ATOM	532	O	VAL A 386	32.052	24.065	-10.400	1.00	19.17		O
ANISOU	532	O	VAL A 386	2432	1971	2882	93	-248	-524	O
ATOM	533	N	SER A 387	33.434	25.741	-11.087	1.00	20.06		N
ANISOU	533	N	SER A 387	2475	1975	3174	69	-304	-576	N
ATOM	534	CA	SER A 387	32.894	26.762	-10.198	1.00	20.65		C
ANISOU	534	CA	SER A 387	2541	2021	3286	64	-273	-709	C
ATOM	535	CB	SER A 387	34.004	27.197	-9.236	1.00	21.25		C
ANISOU	535	CB	SER A 387	2612	2141	3321	26	-322	-822	C
ATOM	536	OG	SER A 387	33.536	28.081	-8.225	1.00	25.92		O
ANISOU	536	OG	SER A 387	3205	2723	3922	20	-293	-979	O
ATOM	537	C	SER A 387	32.403	27.938	-11.076	1.00	20.74		C
ANISOU	537	C	SER A 387	2515	1887	3478	75	-250	-705	C
ATOM	538	O	SER A 387	33.153	28.448	-11.920	1.00	20.93		O
ANISOU	538	O	SER A 387	2521	1834	3597	50	-277	-654	O
ATOM	539	N	GLY A 388	31.171	28.394	-10.876	1.00	20.37		N
ANISOU	539	N	GLY A 388	2457	1802	3480	115	-199	-755	N
ATOM	540	CA	GLY A 388	30.607	29.375	-11.771	1.00	20.03		C
ANISOU	540	CA	GLY A 388	2385	1621	3603	151	-188	-725	C
ATOM	541	C	GLY A 388	29.641	30.315	-11.094	1.00	21.29		C
ANISOU	541	C	GLY A 388	2524	1722	3843	198	-142	-856	C
ATOM	542	O	GLY A 388	29.139	30.030	-10.008	1.00	20.82		O
ANISOU	542	O	GLY A 388	2464	1757	3689	204	-100	-961	O
ATOM	543	N	LYS A 389	29.391	31.447	-11.743	1.00	22.34		N
ANISOU	543	N	LYS A 389	2643	1697	4149	235	-144	-847	N
ATOM	544	CA	LYS A 389	28.404	32.440	-11.252	1.00	23.74		C
ANISOU	544	CA	LYS A 389	2793	1788	4438	308	-101	-972	C
ATOM	545	CB	LYS A 389	28.635	33.761	-11.940	1.00	24.80		C
ANISOU	545	CB	LYS A 389	2942	1708	4771	330	-123	-951	C
ATOM	546	CG	LYS A 389	29.884	34.437	-11.447	1.00	28.40		C
ANISOU	546	CG	LYS A 389	3437	2087	5267	239	-141	-1042	C
ATOM	547	CD	LYS A 389	30.035	35.791	-12.096	1.00	35.05		C
ANISOU	547	CD	LYS A 389	4306	2688	6324	250	-150	-1019	C

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Figure 18 (continued)

ATOM	548	CE	LYS	A	389	31.177	36.562	-11.441	1.00	41.60		C
ANISOU	548	CE	LYS	A	389	5164	3432	7212	145	-160	-1153	C
ATOM	549	NZ	LYS	A	389	31.822	37.562	-12.391	1.00	47.46		N
ANISOU	549	NZ	LYS	A	389	5944	3955	8136	93	-174	-1054	N
ATOM	550	C	LYS	A	389	26.964	32.018	-11.437	1.00	23.29		C
ANISOU	550	C	LYS	A	389	2680	1796	4372	389	-64	-947	C
ATOM	551	O	LYS	A	389	26.103	32.459	-10.703	1.00	24.56		O
ANISOU	551	O	LYS	A	389	2804	1962	4567	446	-11	-1079	O
ATOM	552	N	ASP	A	390	26.725	31.102	-12.371	1.00	22.47		N
ANISOU	552	N	ASP	A	390	2563	1759	4214	388	-89	-794	N
ATOM	553	CA	ASP	A	390	25.370	30.703	-12.704	1.00	23.07		C
ANISOU	553	CA	ASP	A	390	2569	1900	4296	454	-66	-765	C
ATOM	554	CB	ASP	A	390	24.663	31.853	-13.445	1.00	24.00		C
ANISOU	554	CB	ASP	A	390	2644	1876	4601	562	-88	-743	C
ATOM	555	CG	ASP	A	390	25.432	32.299	-14.704	1.00	24.13		C
ANISOU	555	CG	ASP	A	390	2712	1766	4691	555	-157	-587	C
ATOM	556	OD1	ASP	A	390	25.404	31.534	-15.677	1.00	25.37		O
ANISOU	556	OD1	ASP	A	390	2865	1991	4783	541	-195	-449	O
ATOM	557	OD2	ASP	A	390	26.078	33.378	-14.716	1.00	18.12		O
ANISOU	557	OD2	ASP	A	390	1997	842	4045	553	-168	-605	O
ATOM	558	C	ASP	A	390	25.431	29.453	-13.563	1.00	21.82		C
ANISOU	558	C	ASP	A	390	2416	1838	4036	412	-98	-618	C
ATOM	559	O	ASP	A	390	26.473	29.107	-14.095	1.00	21.61		O
ANISOU	559	O	ASP	A	390	2445	1800	3967	359	-140	-529	O
ATOM	560	N	GLU	A	391	24.289	28.816	-13.752	1.00	22.29		N
ANISOU	560	N	GLU	A	391	2410	1991	4069	437	-77	-602	N
ATOM	561	CA	GLU	A	391	24.220	27.543	-14.442	1.00	21.52		C
ANISOU	561	CA	GLU	A	391	2317	1987	3871	387	-99	-494	C
ATOM	562	CB	GLU	A	391	22.839	26.928	-14.190	1.00	22.15		C
ANISOU	562	CB	GLU	A	391	2309	2181	3927	393	-50	-536	C
ATOM	563	CG	GLU	A	391	22.286	26.000	-15.243	1.00	24.99		C
ANISOU	563	CG	GLU	A	391	2632	2607	4255	372	-88	-439	C
ATOM	564	CD	GLU	A	391	20.751	25.986	-15.206	1.00	33.67		C
ANISOU	564	CD	GLU	A	391	3596	3789	5407	410	-56	-495	C
ATOM	565	OE1	GLU	A	391	20.154	25.746	-14.111	1.00	34.20		O
ANISOU	565	OE1	GLU	A	391	3622	3935	5438	379	35	-596	O
ATOM	566	OE2	GLU	A	391	20.138	26.247	-16.270	1.00	38.52		O
ANISOU	566	OE2	GLU	A	391	4139	4401	6095	472	-121	-439	O
ATOM	567	C	GLU	A	391	24.611	27.602	-15.922	1.00	20.48		C
ANISOU	567	C	GLU	A	391	2204	1800	3778	403	-176	-352	C
ATOM	568	O	GLU	A	391	25.229	26.686	-16.401	1.00	19.95		O
ANISOU	568	O	GLU	A	391	2183	1778	3619	346	-199	-277	O
ATOM	569	N	GLN	A	392	24.288	28.689	-16.609	1.00	21.46		N
ANISOU	569	N	GLN	A	392	2299	1824	4031	484	-212	-317	N
ATOM	570	CA	GLN	A	392	24.666	28.910	-18.002	1.00	23.52		C
ANISOU	570	CA	GLN	A	392	2587	2032	4318	502	-281	-172	C
ATOM	571	CB	GLN	A	392	23.926	30.147	-18.557	1.00	24.65		C
ANISOU	571	CB	GLN	A	392	2688	2067	4610	617	-317	-138	C
ATOM	572	CG	GLN	A	392	24.537	30.860	-19.769	1.00	28.63		C
ANISOU	572	CG	GLN	A	392	3252	2461	5164	639	-376	13	C
ATOM	573	CD	GLN	A	392	24.305	32.416	-19.753	1.00	30.83		C
ANISOU	573	CD	GLN	A	392	3540	2551	5624	735	-387	15	C
ATOM	574	OE1	GLN	A	392	25.010	33.190	-19.035	1.00	34.80		O
ANISOU	574	OE1	GLN	A	392	4092	2924	6205	705	-349	-58	O
ATOM	575	NE2	GLN	A	392	23.321	32.867	-20.548	1.00	33.14		N
ANISOU	575	NE2	GLN	A	392	3784	2821	5985	853	-447	94	N
ATOM	576	C	GLN	A	392	26.188	29.017	-18.189	1.00	22.62		C
ANISOU	576	C	GLN	A	392	2561	1858	4175	433	-289	-120	C
ATOM	577	O	GLN	A	392	26.726	28.443	-19.125	1.00	21.91		O
ANISOU	577	O	GLN	A	392	2503	1807	4016	398	-319	-17	O
ATOM	578	N	SER	A	393	26.877	29.730	-17.295	1.00	22.81		N
ANISOU	578	N	SER	A	393	2615	1801	4249	409	-260	-206	N
ATOM	579	CA	SER	A	393	28.347	29.794	-17.315	1.00	21.99		C
ANISOU	579	CA	SER	A	393	2570	1664	4121	331	-264	-183	C
ATOM	580	CB	SER	A	393	28.857	30.874	-16.346	1.00	23.44		C
ANISOU	580	CB	SER	A	393	2770	1738	4397	313	-242	-300	C
ATOM	581	OG	SER	A	393	28.140	32.078	-16.569	1.00	25.29		O
ANISOU	581	OG	SER	A	393	2992	1830	4786	390	-243	-305	O
ATOM	582	C	SER	A	393	29.011	28.464	-16.993	1.00	20.66		C
ANISOU	582	C	SER	A	393	2422	1626	3801	265	-259	-189	C
ATOM	583	O	SER	A	393	30.049	28.132	-17.552	1.00	19.87		O

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Figure 18 (continued)

ANISOU	583	O	SER A 393	2350	1542	3659	219	-276	-122	O
ATOM	584	N	ILE A 394	28.422	27.713	-16.073	1.00	20.77		N
ANISOU	584	N	ILE A 394	2422	1732	3737	263	-230	-268	N
ATOM	585	CA	ILE A 394	28.889	26.369	-15.747	1.00	19.11		C
ANISOU	585	CA	ILE A 394	2244	1630	3386	214	-227	-260	C
ATOM	586	CB	ILE A 394	28.139	25.782	-14.497	1.00	19.85		C
ANISOU	586	CB	ILE A 394	2333	1806	3402	206	-179	-352	C
ATOM	587	CG1	ILE A 394	28.509	26.606	-13.259	1.00	20.43		C
ANISOU	587	CG1	ILE A 394	2415	1856	3490	201	-158	-477	C
ATOM	588	CD1	ILE A 394	27.499	26.518	-12.109	1.00	22.75		C
ANISOU	588	CD1	ILE A 394	2688	2218	3738	210	-93	-583	C
ATOM	589	CG2	ILE A 394	28.435	24.278	-14.274	1.00	15.59		C
ANISOU	589	CG2	ILE A 394	1843	1358	2723	163	-177	-313	C
ATOM	590	C	ILE A 394	28.784	25.474	-16.977	1.00	18.68		C
ANISOU	590	C	ILE A 394	2195	1619	3284	212	-254	-148	C
ATOM	591	O	ILE A 394	29.760	24.825	-17.311	1.00	17.57		O
ANISOU	591	O	ILE A 394	2090	1507	3080	182	-270	-104	O
ATOM	592	N	ALA A 395	27.630	25.500	-17.663	1.00	19.22		N
ANISOU	592	N	ALA A 395	2220	1695	3386	250	-262	-113	N
ATOM	593	CA	ALA A 395	27.401	24.738	-18.901	1.00	19.01		C
ANISOU	593	CA	ALA A 395	2194	1718	3313	248	-295	-23	C
ATOM	594	CB	ALA A 395	25.980	24.956	-19.419	1.00	18.56		C
ANISOU	594	CB	ALA A 395	2065	1683	3305	297	-314	-13	C
ATOM	595	C	ALA A 395	28.416	25.074	-19.990	1.00	19.20		C
ANISOU	595	C	ALA A 395	2250	1706	3340	245	-327	70	C
ATOM	596	O	ALA A 395	28.898	24.171	-20.671	1.00	18.93		O
ANISOU	596	O	ALA A 395	2244	1727	3223	220	-339	115	O
ATOM	597	N	GLU A 396	28.719	26.364	-20.157	1.00	20.22		N
ANISOU	597	N	GLU A 396	2377	1739	3567	267	-332	96	N
ATOM	598	CA	GLU A 396	29.710	26.818	-21.142	1.00	21.09		C
ANISOU	598	CA	GLU A 396	2517	1810	3684	247	-345	193	C
ATOM	599	CB	GLU A 396	29.807	28.341	-21.147	1.00	22.89		C
ANISOU	599	CB	GLU A 396	2749	1899	4047	266	-343	216	C
ATOM	600	CG	GLU A 396	28.607	29.009	-21.787	1.00	27.44		C
ANISOU	600	CG	GLU A 396	3306	2429	4693	349	-378	278	C
ATOM	601	CD	GLU A 396	28.571	30.513	-21.606	1.00	31.59		C
ANISOU	601	CD	GLU A 396	3844	2785	5373	385	-375	287	C
ATOM	602	OE1	GLU A 396	29.466	31.075	-20.945	1.00	37.15		O
ANISOU	602	OE1	GLU A 396	4573	3406	6136	328	-342	230	O
ATOM	603	OE2	GLU A 396	27.632	31.141	-22.145	1.00	34.90		O
ANISOU	603	OE2	GLU A 396	4250	3151	5862	473	-412	349	O
ATOM	604	C	GLU A 396	31.090	26.181	-20.894	1.00	19.62		C
ANISOU	604	C	GLU A 396	2357	1667	3430	186	-325	174	C
ATOM	605	O	GLU A 396	31.755	25.774	-21.820	1.00	19.19		O
ANISOU	605	O	GLU A 396	2317	1657	3319	166	-327	242	O
ATOM	606	N	ALA A 397	31.480	26.093	-19.631	1.00	18.63		N
ANISOU	606	N	ALA A 397	2231	1543	3306	164	-309	75	N
ATOM	607	CA	ALA A 397	32.722	25.456	-19.210	1.00	18.01		C
ANISOU	607	CA	ALA A 397	2163	1517	3164	125	-305	44	C
ATOM	608	CB	ALA A 397	32.994	25.795	-17.741	1.00	17.36		C
ANISOU	608	CB	ALA A 397	2076	1422	3099	108	-300	-69	C
ATOM	609	C	ALA A 397	32.768	23.936	-19.457	1.00	16.96		C
ANISOU	609	C	ALA A 397	2052	1477	2914	133	-311	60	C
ATOM	610	O	ALA A 397	33.775	23.398	-19.924	1.00	17.05		O
ANISOU	610	O	ALA A 397	2067	1532	2880	123	-313	85	O
ATOM	611	N	ILE A 398	31.668	23.250	-19.152	1.00	17.13		N
ANISOU	611	N	ILE A 398	2086	1526	2898	151	-309	38	N
ATOM	612	CA	ILE A 398	31.536	21.827	-19.422	1.00	15.91		C
ANISOU	612	CA	ILE A 398	1963	1430	2651	150	-312	51	C
ATOM	613	CB	ILE A 398	30.199	21.264	-18.834	1.00	17.18		C
ANISOU	613	CB	ILE A 398	2128	1608	2792	144	-297	15	C
ATOM	614	CG1	ILE A 398	30.119	21.527	-17.326	1.00	16.13		C
ANISOU	614	CG1	ILE A 398	2000	1471	2657	136	-271	-57	C
ATOM	615	CD1	ILE A 398	28.779	21.236	-16.716	1.00	16.58		C
ANISOU	615	CD1	ILE A 398	2043	1553	2705	121	-235	-95	C
ATOM	616	CG2	ILE A 398	30.022	19.747	-19.155	1.00	13.67		C
ANISOU	616	CG2	ILE A 398	1729	1199	2267	127	-297	27	C
ATOM	617	C	ILE A 398	31.671	21.562	-20.922	1.00	16.07		C
ANISOU	617	C	ILE A 398	1985	1475	2647	156	-326	121	C
ATOM	618	O	ILE A 398	32.434	20.686	-21.326	1.00	16.26		O
ANISOU	618	O	ILE A 398	2034	1535	2609	157	-326	128	O

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Figure 18 (continued)

ATOM	619	N	ILE	A	399	30.963	22.335	-21.741	1.00	16.42		N
ANISOU	619	N	ILE	A	399	2003	1502	2734	169	-339	169	N
ATOM	620	CA	ILE	A	399	31.042	22.212	-23.210	1.00	16.68		C
ANISOU	620	CA	ILE	A	399	2040	1574	2722	175	-356	243	C
ATOM	621	CB	ILE	A	399	30.128	23.237	-23.951	1.00	17.23		C
ANISOU	621	CB	ILE	A	399	2083	1621	2843	205	-385	310	C
ATOM	622	CG1	ILE	A	399	28.652	22.926	-23.683	1.00	16.60		C
ANISOU	622	CG1	ILE	A	399	1968	1565	2776	225	-410	268	C
ATOM	623	CD1	ILE	A	399	27.669	24.079	-24.032	1.00	17.54		C
ANISOU	623	CD1	ILE	A	399	2040	1648	2976	281	-446	315	C
ATOM	624	CG2	ILE	A	399	30.379	23.228	-25.492	1.00	18.27		C
ANISOU	624	CG2	ILE	A	399	2231	1807	2903	209	-404	401	C
ATOM	625	C	ILE	A	399	32.467	22.321	-23.722	1.00	17.17		C
ANISOU	625	C	ILE	A	399	2111	1650	2761	159	-335	277	C
ATOM	626	O	ILE	A	399	32.926	21.437	-24.454	1.00	17.83		O
ANISOU	626	O	ILE	A	399	2214	1798	2764	160	-329	282	O
ATOM	627	N	VAL	A	400	33.152	23.398	-23.336	1.00	16.69		N
ANISOU	627	N	VAL	A	400	2033	1534	2776	141	-318	289	N
ATOM	628	CA	VAL	A	400	34.542	23.641	-23.732	1.00	16.70		C
ANISOU	628	CA	VAL	A	400	2020	1553	2773	109	-288	316	C
ATOM	629	CB	VAL	A	400	35.026	25.034	-23.221	1.00	16.70		C
ANISOU	629	CB	VAL	A	400	1997	1463	2887	69	-273	321	C
ATOM	630	CG1	VAL	A	400	36.523	25.234	-23.427	1.00	15.47		C
ANISOU	630	CG1	VAL	A	400	1803	1337	2737	16	-236	327	C
ATOM	631	CG2	VAL	A	400	34.216	26.116	-23.893	1.00	16.90		C
ANISOU	631	CG2	VAL	A	400	2039	1410	2973	79	-281	410	C
ATOM	632	C	VAL	A	400	35.510	22.529	-23.314	1.00	15.98		C
ANISOU	632	C	VAL	A	400	1922	1527	2623	114	-279	252	C
ATOM	633	O	VAL	A	400	36.327	22.104	-24.112	1.00	17.42		O
ANISOU	633	O	VAL	A	400	2094	1773	2753	112	-256	272	O
ATOM	634	N	ALA	A	401	35.406	22.061	-22.079	1.00	16.30		N
ANISOU	634	N	ALA	A	401	1971	1556	2666	128	-297	178	N
ATOM	635	CA	ALA	A	401	36.199	20.909	-21.593	1.00	16.28		C
ANISOU	635	CA	ALA	A	401	1976	1604	2606	155	-305	128	C
ATOM	636	CB	ALA	A	401	35.953	20.689	-20.091	1.00	14.87		C
ANISOU	636	CB	ALA	A	401	1817	1404	2428	165	-328	68	C
ATOM	637	C	ALA	A	401	35.896	19.628	-22.378	1.00	16.82		C
ANISOU	637	C	ALA	A	401	2088	1709	2596	188	-304	136	C
ATOM	638	O	ALA	A	401	36.802	18.869	-22.684	1.00	18.03		O
ANISOU	638	O	ALA	A	401	2236	1907	2709	218	-296	118	O
ATOM	639	N	MSE	A	402	34.624	19.373	-22.681	1.00	17.03		N
ANISOU	639	N	MSE	A	402	2147	1717	2604	183	-313	147	N
ATOM	640	CA	MSE	A	402	34.253	18.142	-23.412	1.00	17.44		C
ANISOU	640	CA	MSE	A	402	2244	1796	2588	199	-316	135	C
ATOM	641	CB	MSE	A	402	32.737	17.935	-23.431	1.00	16.42		C
ANISOU	641	CB	MSE	A	402	2133	1649	2458	176	-333	130	C
ATOM	642	CG	MSE	A	402	32.140	17.462	-22.125	1.00	16.29		C
ANISOU	642	CG	MSE	A	402	2144	1590	2456	163	-332	92	C
ATOM	643	SE	MSE	A	402	30.183	17.395	-22.251	0.90	20.12		SE
ANISOU	643	SE	MSE	A	402	2609	2079	2958	119	-340	80	SE
ATOM	644	CE	MSE	A	402	29.774	16.578	-20.532	1.00	14.21		C
ANISOU	644	CE	MSE	A	402	1909	1287	2202	87	-307	39	C
ATOM	645	C	MSE	A	402	34.797	18.137	-24.843	1.00	17.04		C
ANISOU	645	C	MSE	A	402	2179	1807	2487	205	-298	163	C
ATOM	646	O	MSE	A	402	35.297	17.114	-25.295	1.00	17.79		O
ANISOU	646	O	MSE	A	402	2299	1933	2528	233	-288	126	O
ATOM	647	N	VAL	A	403	34.697	19.277	-25.541	1.00	17.61		N
ANISOU	647	N	VAL	A	403	2220	1894	2576	182	-292	230	N
ATOM	648	CA	VAL	A	403	35.335	19.465	-26.866	1.00	17.49		C
ANISOU	648	CA	VAL	A	403	2194	1951	2500	177	-261	275	C
ATOM	649	CB	VAL	A	403	34.977	20.843	-27.538	1.00	18.05		C
ANISOU	649	CB	VAL	A	403	2252	2014	2593	149	-261	380	C
ATOM	650	CG1	VAL	A	403	35.759	21.042	-28.835	1.00	15.38		C
ANISOU	650	CG1	VAL	A	403	1909	1761	2174	132	-215	441	C
ATOM	651	CG2	VAL	A	403	33.475	20.963	-27.819	1.00	18.29		C
ANISOU	651	CG2	VAL	A	403	2302	2033	2616	162	-316	405	C
ATOM	652	C	VAL	A	403	36.880	19.322	-26.774	1.00	18.33		C
ANISOU	652	C	VAL	A	403	2259	2096	2607	184	-216	250	C
ATOM	653	O	VAL	A	403	37.496	18.607	-27.563	1.00	18.16		O
ANISOU	653	O	VAL	A	403	2238	2149	2515	207	-185	224	O
ATOM	654	N	PHE	A	404	37.482	20.014	-25.804	1.00	18.22		N

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Figure 18 (continued)

ANISOU	654	N	PHE	A	404	2203	2042	2676	166	-213	246	N
ATOM	655	CA	PHE	A	404	38.935	20.002	-25.606	1.00	18.45		C
ANISOU	655	CA	PHE	A	404	2167	2120	2724	167	-180	215	C
ATOM	656	CB	PHE	A	404	39.279	20.946	-24.451	1.00	18.40		C
ANISOU	656	CB	PHE	A	404	2118	2060	2815	130	-197	203	C
ATOM	657	CG	PHE	A	404	40.743	21.047	-24.167	1.00	16.27		C
ANISOU	657	CG	PHE	A	404	1758	1850	2576	119	-176	163	C
ATOM	658	CD1	PHE	A	404	41.538	21.926	-24.884	1.00	17.08		C
ANISOU	658	CD1	PHE	A	404	1794	1990	2708	49	-116	207	C
ATOM	659	CE1	PHE	A	404	42.921	22.016	-24.616	1.00	21.24		C
ANISOU	659	CE1	PHE	A	404	2210	2589	3271	29	-94	157	C
ATOM	660	CZ	PHE	A	404	43.501	21.222	-23.619	1.00	19.15		C
ANISOU	660	CZ	PHE	A	404	1905	2364	3009	98	-148	68	C
ATOM	661	CE2	PHE	A	404	42.718	20.351	-22.893	1.00	18.17		C
ANISOU	661	CE2	PHE	A	404	1866	2192	2846	176	-211	40	C
ATOM	662	CD2	PHE	A	404	41.325	20.260	-23.180	1.00	17.63		C
ANISOU	662	CD2	PHE	A	404	1906	2047	2745	177	-217	86	C
ATOM	663	C	PHE	A	404	39.518	18.593	-25.332	1.00	18.68		C
ANISOU	663	C	PHE	A	404	2200	2187	2710	241	-190	135	C
ATOM	664	O	PHE	A	404	40.673	18.296	-25.683	1.00	18.92		O
ANISOU	664	O	PHE	A	404	2170	2292	2727	266	-154	105	O
ATOM	665	N	SER	A	405	38.712	17.745	-24.692	1.00	18.21		N
ANISOU	665	N	SER	A	405	2210	2070	2638	277	-233	102	N
ATOM	666	CA	SER	A	405	39.091	16.363	-24.380	1.00	18.68		C
ANISOU	666	CA	SER	A	405	2304	2127	2668	352	-249	41	C
ATOM	667	CB	SER	A	405	38.012	15.723	-23.496	1.00	18.57		C
ANISOU	667	CB	SER	A	405	2375	2027	2653	356	-290	32	C
ATOM	668	OG	SER	A	405	36.849	15.381	-24.246	1.00	16.66		O
ANISOU	668	OG	SER	A	405	2188	1765	2376	326	-287	37	O
ATOM	669	C	SER	A	405	39.340	15.491	-25.619	1.00	20.09		C
ANISOU	669	C	SER	A	405	2498	2356	2779	391	-214	8	C
ATOM	670	O	SER	A	405	40.066	14.496	-25.533	1.00	21.25		O
ANISOU	670	O	SER	A	405	2648	2509	2916	468	-213	-50	O
ATOM	671	N	GLN	A	406	38.723	15.866	-26.758	1.00	20.26		N
ANISOU	671	N	GLN	A	406	2533	2414	2751	345	-190	41	N
ATOM	672	CA	GLN	A	406	38.832	15.162	-28.048	1.00	20.05		C
ANISOU	672	CA	GLN	A	406	2527	2454	2636	368	-155	2	C
ATOM	673	CB	GLN	A	406	40.290	15.095	-28.531	1.00	19.99		C
ANISOU	673	CB	GLN	A	406	2441	2542	2612	409	-93	-31	C
ATOM	674	CG	GLN	A	406	40.906	16.472	-28.726	1.00	20.76		C
ANISOU	674	CG	GLN	A	406	2452	2702	2734	342	-49	46	C
ATOM	675	CD	GLN	A	406	42.332	16.414	-29.196	1.00	20.39		C
ANISOU	675	CD	GLN	A	406	2306	2766	2674	366	24	9	C
ATOM	676	OE1	GLN	A	406	43.147	15.693	-28.645	1.00	19.25		O
ANISOU	676	OE1	GLN	A	406	2117	2630	2566	444	17	-66	O
ATOM	677	NE2	GLN	A	406	42.640	17.179	-30.233	1.00	22.01		N
ANISOU	677	NE2	GLN	A	406	2474	3065	2824	301	97	68	N
ATOM	678	C	GLN	A	406	38.164	13.777	-28.045	1.00	20.64		C
ANISOU	678	C	GLN	A	406	2691	2466	2684	406	-184	-74	C
ATOM	679	O	GLN	A	406	38.465	12.937	-28.887	1.00	22.16		O
ANISOU	679	O	GLN	A	406	2906	2696	2817	445	-157	-144	O
ATOM	680	N	GLU	A	407	37.248	13.554	-27.111	1.00	20.37		N
ANISOU	680	N	GLU	A	407	2710	2337	2695	385	-231	-65	N
ATOM	681	CA	GLU	A	407	36.556	12.268	-26.951	1.00	21.29		C
ANISOU	681	CA	GLU	A	407	2916	2369	2805	396	-254	-125	C
ATOM	682	CB	GLU	A	407	35.638	12.293	-25.718	1.00	19.97		C
ANISOU	682	CB	GLU	A	407	2786	2110	2691	355	-289	-92	C
ATOM	683	CG	GLU	A	407	36.371	12.188	-24.373	1.00	21.49		C
ANISOU	683	CG	GLU	A	407	2982	2253	2931	404	-301	-73	C
ATOM	684	CD	GLU	A	407	35.649	11.292	-23.352	1.00	21.16		C
ANISOU	684	CD	GLU	A	407	3033	2101	2906	391	-321	-72	C
ATOM	685	OE1	GLU	A	407	34.688	10.585	-23.711	1.00	21.26		O
ANISOU	685	OE1	GLU	A	407	3107	2062	2909	342	-319	-101	O
ATOM	686	OE2	GLU	A	407	36.071	11.267	-22.189	1.00	20.34		O
ANISOU	686	OE2	GLU	A	407	2943	1965	2820	424	-339	-43	O
ATOM	687	C	GLU	A	407	35.725	11.866	-28.158	1.00	22.08		C
ANISOU	687	C	GLU	A	407	3052	2504	2835	357	-256	-169	C
ATOM	688	O	GLU	A	407	35.066	12.694	-28.765	1.00	20.70		O
ANISOU	688	O	GLU	A	407	2846	2394	2624	304	-267	-123	O
ATOM	689	N	ASP	A	408	35.720	10.573	-28.461	1.00	23.34		N
ANISOU	689	N	ASP	A	408	3280	2611	2976	386	-253	-261	N

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Figure 18 (continued)

ATOM	690	CA	ASP	A	408	34.928	10.035	-29.544	1.00	24.61		C
ANISOU	690	CA	ASP	A	408	3481	2801	3068	344	-263	-332	C
ATOM	691	CB	ASP	A	408	35.160	8.530	-29.658	1.00	25.59		C
ANISOU	691	CB	ASP	A	408	3692	2830	3202	388	-253	-449	C
ATOM	692	CG	ASP	A	408	34.396	7.913	-30.801	1.00	27.72		C
ANISOU	692	CG	ASP	A	408	4003	3131	3397	336	-265	-551	C
ATOM	693	OD1	ASP	A	408	34.710	8.279	-31.958	1.00	31.59		O
ANISOU	693	OD1	ASP	A	408	4457	3762	3786	347	-246	-579	O
ATOM	694	OD2	ASP	A	408	33.492	7.066	-30.549	1.00	28.73		O
ANISOU	694	OD2	ASP	A	408	4201	3151	3564	276	-293	-607	O
ATOM	695	C	ASP	A	408	33.427	10.347	-29.389	1.00	24.65		C
ANISOU	695	C	ASP	A	408	3488	2793	3084	249	-310	-301	C
ATOM	696	O	ASP	A	408	32.784	10.796	-30.342	1.00	24.93		O
ANISOU	696	O	ASP	A	408	3495	2927	3051	207	-333	-299	O
ATOM	697	N	ACYS	A	409	32.869	10.126	-28.205	0.70	24.72		N
ANISOU	697	N	ACYS	A	409	3524	2697	3172	218	-325	-276	N
ATOM	698	N	BCYS	A	409	32.906	10.105	-28.182	0.30	24.11		N
ANISOU	698	N	BCYS	A	409	3448	2617	3096	220	-324	-276	N
ATOM	699	CA	ACYS	A	409	31.430	10.317	-28.021	0.70	25.22		C
ANISOU	699	CA	ACYS	A	409	3572	2756	3254	128	-359	-264	C
ATOM	700	CA	BCYS	A	409	31.506	10.359	-27.816	0.30	23.92		C
ANISOU	700	CA	BCYS	A	409	3408	2580	3101	132	-355	-254	C
ATOM	701	CB	ACYS	A	409	30.961	9.730	-26.681	0.70	25.40		C
ANISOU	701	CB	ACYS	A	409	3644	2652	3353	91	-351	-253	C
ATOM	702	CB	BCYS	A	409	31.313	10.176	-26.307	0.30	23.45		C
ANISOU	702	CB	BCYS	A	409	3378	2413	3118	117	-345	-213	C
ATOM	703	SG	ACYS	A	409	31.124	10.858	-25.325	0.70	28.09		S
ANISOU	703	SG	ACYS	A	409	3936	2990	3746	108	-341	-150	S
ATOM	704	SG	BCYS	A	409	31.533	8.502	-25.712	0.30	24.62		S
ANISOU	704	SG	BCYS	A	409	3655	2400	3300	125	-326	-269	S
ATOM	705	C	ACYS	A	409	31.016	11.792	-28.173	0.70	23.86		C
ANISOU	705	C	ACYS	A	409	3310	2680	3076	114	-379	-177	C
ATOM	706	C	BCYS	A	409	31.060	11.762	-28.191	0.30	23.24		C
ANISOU	706	C	BCYS	A	409	3233	2600	2995	116	-378	-179	C
ATOM	707	O	ACYS	A	409	29.841	12.089	-28.420	0.70	23.73		O
ANISOU	707	O	ACYS	A	409	3255	2703	3058	58	-417	-174	O
ATOM	708	O	BCYS	A	409	29.914	11.985	-28.591	0.30	23.42		O
ANISOU	708	O	BCYS	A	409	3222	2670	3007	61	-417	-184	O
ATOM	709	N	MSE	A	410	31.991	12.696	-28.033	1.00	22.71		N
ANISOU	709	N	MSE	A	410	3128	2566	2936	166	-357	-110	N
ATOM	710	CA	MSE	A	410	31.811	14.092	-28.382	1.00	21.64		C
ANISOU	710	CA	MSE	A	410	2925	2503	2796	162	-370	-25	C
ATOM	711	CB	MSE	A	410	32.941	14.929	-27.770	1.00	21.38		C
ANISOU	711	CB	MSE	A	410	2860	2456	2807	198	-336	34	C
ATOM	712	CG	MSE	A	410	32.895	16.431	-28.071	1.00	19.41		C
ANISOU	712	CG	MSE	A	410	2554	2246	2573	190	-339	129	C
ATOM	713	SE	MSE	A	410	33.826	17.055	-29.687	0.90	23.28		SE
ANISOU	713	SE	MSE	A	410	3027	2856	2961	199	-303	190	SE
ATOM	714	CE	MSE	A	410	35.627	16.334	-29.341	1.00	17.42		C
ANISOU	714	CE	MSE	A	410	2275	2120	2226	242	-234	125	C
ATOM	715	C	MSE	A	410	31.762	14.285	-29.903	1.00	22.99		C
ANISOU	715	C	MSE	A	410	3085	2788	2861	162	-383	-21	C
ATOM	716	O	MSE	A	410	30.839	14.974	-30.405	1.00	23.49		O
ANISOU	716	O	MSE	A	410	3115	2908	2904	140	-429	26	O
ATOM	717	N	ILE	A	411	32.750	13.711	-30.616	1.00	22.18		N
ANISOU	717	N	ILE	A	411	3009	2728	2689	195	-345	-69	N
ATOM	718	CA	ILE	A	411	32.822	13.744	-32.071	1.00	23.23		C
ANISOU	718	CA	ILE	A	411	3145	2987	2693	196	-344	-80	C
ATOM	719	CB	ILE	A	411	34.201	13.201	-32.577	1.00	24.59		C
ANISOU	719	CB	ILE	A	411	3332	3203	2809	246	-273	-138	C
ATOM	720	CG1	ILE	A	411	35.271	14.295	-32.388	1.00	26.32		C
ANISOU	720	CG1	ILE	A	411	3493	3453	3056	263	-219	-38	C
ATOM	721	CD1	ILE	A	411	36.666	13.790	-32.234	1.00	28.71		C
ANISOU	721	CD1	ILE	A	411	3775	3761	3371	318	-151	-95	C
ATOM	722	CG2	ILE	A	411	34.171	12.852	-34.050	1.00	25.93		C
ANISOU	722	CG2	ILE	A	411	3524	3504	2824	243	-266	-195	C
ATOM	723	C	ILE	A	411	31.610	13.049	-32.705	1.00	23.32		C
ANISOU	723	C	ILE	A	411	3181	3033	2646	153	-406	-158	C
ATOM	724	O	ILE	A	411	31.080	13.526	-33.698	1.00	23.80		O
ANISOU	724	O	ILE	A	411	3225	3207	2611	139	-447	-126	O
ATOM	725	N	LYS	A	412	31.150	11.948	-32.095	1.00	22.39		N

Figure 18 (continued)

ANISOU	725	N	LYS	A	412	3103	2816	2587	126	-417	-254	N
ATOM	726	CA	LYS	A	412	30.008	11.189	-32.619	1.00	22.44		C
ANISOU	726	CA	LYS	A	412	3126	2844	2557	64	-473	-349	C
ATOM	727	CB	LYS	A	412	30.065	9.720	-32.145	1.00	22.70		C
ANISOU	727	CB	LYS	A	412	3236	2744	2644	43	-450	-472	C
ATOM	728	CG	LYS	A	412	31.201	8.920	-32.768	1.00	22.92		C
ANISOU	728	CG	LYS	A	412	3324	2769	2614	105	-401	-564	C
ATOM	729	CD	LYS	A	412	31.025	8.761	-34.293	1.00	21.99		C
ANISOU	729	CD	LYS	A	412	3210	2800	2346	92	-424	-649	C
ATOM	730	CE	LYS	A	412	32.028	7.811	-34.909	1.00	25.65		C
ANISOU	730	CE	LYS	A	412	3734	3256	2754	152	-367	-778	C
ATOM	731	NZ	LYS	A	412	33.428	8.304	-34.688	1.00	27.17		N
ANISOU	731	NZ	LYS	A	412	3899	3468	2955	246	-293	-708	N
ATOM	732	C	LYS	A	412	28.666	11.875	-32.299	1.00	21.94		C
ANISOU	732	C	LYS	A	412	2995	2803	2540	14	-538	-292	C
ATOM	733	O	LYS	A	412	27.630	11.557	-32.849	1.00	22.69		O
ANISOU	733	O	LYS	A	412	3067	2958	2597	-40	-599	-352	O
ATOM	734	N	ALA	A	413	28.709	12.869	-31.427	1.00	21.22		N
ANISOU	734	N	ALA	A	413	2860	2671	2530	36	-525	-183	N
ATOM	735	CA	ALA	A	413	27.536	13.650	-31.085	1.00	20.92		C
ANISOU	735	CA	ALA	A	413	2747	2655	2548	13	-576	-129	C
ATOM	736	CB	ALA	A	413	27.649	14.219	-29.668	1.00	18.88		C
ANISOU	736	CB	ALA	A	413	2470	2294	2409	26	-537	-70	C
ATOM	737	C	ALA	A	413	27.248	14.752	-32.097	1.00	21.86		C
ANISOU	737	C	ALA	A	413	2818	2897	2593	49	-633	-41	C
ATOM	738	O	ALA	A	413	26.187	15.379	-32.051	1.00	22.85		O
ANISOU	738	O	ALA	A	413	2871	3058	2752	48	-693	-4	O
ATOM	739	N	VAL	A	414	28.175	14.991	-33.014	1.00	22.39		N
ANISOU	739	N	VAL	A	414	2922	3032	2556	85	-611	-4	N
ATOM	740	CA	VAL	A	414	27.955	15.974	-34.070	1.00	23.35		C
ANISOU	740	CA	VAL	A	414	3019	3272	2581	117	-662	98	C
ATOM	741	CB	VAL	A	414	29.231	16.231	-34.885	1.00	23.82		C
ANISOU	741	CB	VAL	A	414	3127	3392	2531	144	-600	150	C
ATOM	742	CG1	VAL	A	414	28.916	17.030	-36.162	1.00	23.49		C
ANISOU	742	CG1	VAL	A	414	3084	3492	2348	165	-656	255	C
ATOM	743	CG2	VAL	A	414	30.269	16.960	-34.029	1.00	21.14		C
ANISOU	743	CG2	VAL	A	414	2786	2952	2296	164	-520	231	C
ATOM	744	C	VAL	A	414	26.807	15.533	-34.993	1.00	25.52		C
ANISOU	744	C	VAL	A	414	3267	3670	2760	90	-761	34	C
ATOM	745	O	VAL	A	414	26.724	14.372	-35.386	1.00	26.20		O
ANISOU	745	O	VAL	A	414	3384	3785	2785	46	-766	-102	O
ATOM	746	N	ARG	A	415	25.914	16.474	-35.297	1.00	26.58		N
ANISOU	746	N	ARG	A	415	3339	3868	2891	121	-844	127	N
ATOM	747	CA	ARG	A	415	24.812	16.243	-36.203	1.00	29.14		C
ANISOU	747	CA	ARG	A	415	3617	4335	3118	109	-958	83	C
ATOM	748	CB	ARG	A	415	23.449	16.436	-35.494	1.00	29.44		C
ANISOU	748	CB	ARG	A	415	3545	4355	3286	99	-1027	62	C
ATOM	749	CG	ARG	A	415	23.141	15.430	-34.381	1.00	29.25		C
ANISOU	749	CG	ARG	A	415	3504	4222	3388	18	-974	-70	C
ATOM	750	CD	ARG	A	415	23.007	14.000	-34.895	1.00	29.56		C
ANISOU	750	CD	ARG	A	415	3579	4300	3352	-70	-985	-236	C
ATOM	751	NE	ARG	A	415	22.856	13.082	-33.769	1.00	29.80		N
ANISOU	751	NE	ARG	A	415	3621	4194	3510	-150	-917	-331	N
ATOM	752	CZ	ARG	A	415	23.825	12.317	-33.266	1.00	28.42		C
ANISOU	752	CZ	ARG	A	415	3546	3892	3360	-167	-824	-374	C
ATOM	753	NH1	ARG	A	415	25.038	12.351	-33.797	1.00	29.21		N
ANISOU	753	NH1	ARG	A	415	3727	3996	3374	-111	-782	-347	N
ATOM	754	NH2	ARG	A	415	23.574	11.513	-32.230	1.00	25.27		N
ANISOU	754	NH2	ARG	A	415	3164	3367	3070	-239	-772	-438	N
ATOM	755	C	ARG	A	415	24.940	17.199	-37.386	1.00	30.32		C
ANISOU	755	C	ARG	A	415	3784	4614	3121	172	-1013	223	C
ATOM	756	O	ARG	A	415	25.119	18.400	-37.205	1.00	30.57		O
ANISOU	756	O	ARG	A	415	3812	4599	3205	231	-1007	381	O
ATOM	757	N	GLY	A	416	24.846	16.660	-38.592	1.00	31.60		N
ANISOU	757	N	GLY	A	416	3973	4936	3096	156	-1066	164	N
ATOM	758	CA	GLY	A	416	25.049	17.449	-39.795	1.00	32.75		C
ANISOU	758	CA	GLY	A	416	4156	5224	3063	209	-1110	301	C
ATOM	759	C	GLY	A	416	26.516	17.725	-40.084	1.00	32.51		C
ANISOU	759	C	GLY	A	416	4216	5174	2960	216	-984	379	C
ATOM	760	O	GLY	A	416	27.397	17.335	-39.318	1.00	30.64		O
ANISOU	760	O	GLY	A	416	4002	4814	2824	191	-871	323	O

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Figure 18 (continued)

ATOM	761	N	ASP	A	417	26.766	18.388	-41.211	1.00	34.28		N
ANISOU	761	N	ASP	A	417	4487	5534	3002	249	-1005	511	N
ATOM	762	CA	ASP	A	417	28.113	18.751	-41.645	1.00	35.22		C
ANISOU	762	CA	ASP	A	417	4682	5669	3032	244	-879	601	C
ATOM	763	CB	ASP	A	417	28.165	18.916	-43.173	1.00	37.33		C
ANISOU	763	CB	ASP	A	417	5008	6157	3018	256	-915	671	C
ATOM	764	CG	ASP	A	417	28.224	17.574	-43.905	1.00	40.79		C
ANISOU	764	CG	ASP	A	417	5468	6743	3286	216	-916	453	C
ATOM	765	OD1	ASP	A	417	28.476	16.530	-43.243	1.00	40.15		O
ANISOU	765	OD1	ASP	A	417	5373	6567	3315	180	-861	264	O
ATOM	766	OD2	ASP	A	417	28.023	17.556	-45.146	1.00	44.28		O
ANISOU	766	OD2	ASP	A	417	5951	7394	3481	223	-973	470	O
ATOM	767	C	ASP	A	417	28.588	20.023	-40.949	1.00	34.37		C
ANISOU	767	C	ASP	A	417	4575	5408	3075	269	-821	788	C
ATOM	768	O	ASP	A	417	27.782	20.865	-40.553	1.00	33.70		O
ANISOU	768	O	ASP	A	417	4453	5250	3100	314	-901	893	O
ATOM	769	N	LEU	A	418	29.902	20.142	-40.795	1.00	34.15		N
ANISOU	769	N	LEU	A	418	4581	5331	3061	239	-680	814	N
ATOM	770	CA	LEU	A	418	30.506	21.331	-40.188	1.00	34.32		C
ANISOU	770	CA	LEU	A	418	4607	5210	3223	240	-613	976	C
ATOM	771	CB	LEU	A	418	31.439	20.937	-39.032	1.00	32.56		C
ANISOU	771	CB	LEU	A	418	4354	4852	3167	206	-504	872	C
ATOM	772	CG	LEU	A	418	30.818	20.136	-37.877	1.00	32.15		C
ANISOU	772	CG	LEU	A	418	4251	4695	3270	212	-546	713	C
ATOM	773	CD1	LEU	A	418	31.869	19.758	-36.847	1.00	32.10		C
ANISOU	773	CD1	LEU	A	418	4227	4578	3390	188	-444	632	C
ATOM	774	CD2	LEU	A	418	29.674	20.910	-37.221	1.00	32.15		C
ANISOU	774	CD2	LEU	A	418	4210	4598	3407	247	-640	782	C
ATOM	775	C	LEU	A	418	31.217	22.207	-41.237	1.00	36.42		C
ANISOU	775	C	LEU	A	418	4940	5563	3335	227	-553	1165	C
ATOM	776	O	LEU	A	418	32.148	21.768	-41.919	1.00	36.22		O
ANISOU	776	O	LEU	A	418	4945	5656	3162	188	-454	1130	O
ATOM	777	N	ASN	A	419	30.740	23.444	-41.374	1.00	38.22		N
ANISOU	777	N	ASN	A	419	5193	5731	3598	263	-611	1367	N
ATOM	778	CA	ASN	A	419	31.215	24.360	-42.413	1.00	40.94		C
ANISOU	778	CA	ASN	A	419	5619	6147	3791	250	-570	1584	C
ATOM	779	CB	ASN	A	419	30.272	24.322	-43.627	1.00	42.84		C
ANISOU	779	CB	ASN	A	419	5901	6577	3800	306	-702	1654	C
ATOM	780	CG	ASN	A	419	30.365	23.011	-44.413	1.00	43.28		C
ANISOU	780	CG	ASN	A	419	5958	6853	3634	281	-699	1469	C
ATOM	781	OD1	ASN	A	419	31.429	22.652	-44.933	1.00	42.07		O
ANISOU	781	OD1	ASN	A	419	5839	6798	3349	224	-567	1436	O
ATOM	782	ND2	ASN	A	419	29.243	22.307	-44.522	1.00	41.71		N
ANISOU	782	ND2	ASN	A	419	5716	6735	3396	320	-841	1339	N
ATOM	783	C	ASN	A	419	31.355	25.811	-41.928	1.00	41.80		C
ANISOU	783	C	ASN	A	419	5754	6059	4070	255	-549	1788	C
ATOM	784	O	ASN	A	419	31.184	26.739	-42.727	1.00	43.13		O
ANISOU	784	O	ASN	A	419	5997	6247	4142	277	-579	2006	O
ATOM	785	N	PHE	A	420	31.654	25.990	-40.633	1.00	40.43		N
ANISOU	785	N	PHE	A	420	5526	5694	4142	235	-501	1717	N
ATOM	786	CA	PHE	A	420	31.813	27.317	-40.017	1.00	41.44		C
ANISOU	786	CA	PHE	A	420	5674	5609	4463	231	-477	1867	C
ATOM	787	CB	PHE	A	420	31.969	27.229	-38.484	1.00	38.75		C
ANISOU	787	CB	PHE	A	420	5258	5093	4371	217	-448	1720	C
ATOM	788	CG	PHE	A	420	30.717	26.787	-37.763	1.00	38.53		C
ANISOU	788	CG	PHE	A	420	5167	5033	4438	296	-567	1596	C
ATOM	789	CD1	PHE	A	420	30.638	25.508	-37.189	1.00	35.77		C
ANISOU	789	CD1	PHE	A	420	4757	4741	4094	283	-566	1382	C
ATOM	790	CE1	PHE	A	420	29.480	25.098	-36.517	1.00	35.30		C
ANISOU	790	CE1	PHE	A	420	4636	4656	4121	336	-660	1273	C
ATOM	791	CZ	PHE	A	420	28.390	25.961	-36.410	1.00	36.31		C
ANISOU	791	CZ	PHE	A	420	4745	4716	4335	416	-759	1362	C
ATOM	792	CE2	PHE	A	420	28.453	27.236	-36.976	1.00	37.91		C
ANISOU	792	CE2	PHE	A	420	5009	4854	4542	452	-773	1570	C
ATOM	793	CD2	PHE	A	420	29.615	27.647	-37.648	1.00	38.57		C
ANISOU	793	CD2	PHE	A	420	5173	4948	4536	385	-676	1694	C
ATOM	794	C	PHE	A	420	32.985	28.099	-40.621	1.00	43.58		C
ANISOU	794	C	PHE	A	420	6013	5871	4673	144	-345	2038	C
ATOM	795	O	PHE	A	420	34.016	27.544	-40.971	1.00	43.69		O
ANISOU	795	O	PHE	A	420	6017	6000	4582	67	-227	1979	O
ATOM	796	N	VAL	A	421	32.815	29.402	-40.734	1.00	46.01		N

Figure 18 (continued)

ANISOU	796	N	VAL	A	421	6388	6035	5060	155	-361	2250	N
ATOM	797	CA	VAL	A	421	33.827	30.281	-41.275	1.00	48.42		C
ANISOU	797	CA	VAL	A	421	6767	6301	5331	58	-235	2439	C
ATOM	798	CB	VAL	A	421	33.415	30.657	-42.715	1.00	50.72		C
ANISOU	798	CB	VAL	A	421	7168	6727	5375	95	-285	2662	C
ATOM	799	CG1	VAL	A	421	33.405	32.139	-42.946	1.00	53.63		C
ANISOU	799	CG1	VAL	A	421	7644	6908	5824	89	-278	2939	C
ATOM	800	CG2	VAL	A	421	34.260	29.882	-43.738	1.00	50.83		C
ANISOU	800	CG2	VAL	A	421	7196	6999	5117	16	-175	2634	C
ATOM	801	C	VAL	A	421	33.969	31.474	-40.304	1.00	49.05		C
ANISOU	801	C	VAL	A	421	6856	6092	5690	35	-213	2513	C
ATOM	802	O	VAL	A	421	33.147	31.634	-39.405	1.00	48.40		O
ANISOU	802	O	VAL	A	421	6734	5873	5784	117	-308	2435	O
ATOM	803	N	ASN	A	422	35.019	32.281	-40.431	1.00	50.78		N
ANISOU	803	N	ASN	A	422	7118	6220	5956	-86	-79	2641	N
ATOM	804	CA	ASN	A	422	35.104	33.500	-39.619	1.00	51.41		C
ANISOU	804	CA	ASN	A	422	7224	6012	6298	-114	-65	2718	C
ATOM	805	CB	ASN	A	422	36.417	33.548	-38.825	1.00	50.54		C
ANISOU	805	CB	ASN	A	422	7039	5832	6330	-263	80	2603	C
ATOM	806	CG	ASN	A	422	37.651	33.599	-39.710	1.00	53.01		C
ANISOU	806	CG	ASN	A	422	7370	6272	6500	-410	242	2706	C
ATOM	807	OD1	ASN	A	422	38.708	33.120	-39.316	1.00	54.15		O
ANISOU	807	OD1	ASN	A	422	7415	6486	6672	-510	351	2564	O
ATOM	808	ND2	ASN	A	422	37.536	34.195	-40.891	1.00	54.93		N
ANISOU	808	ND2	ASN	A	422	7734	6550	6586	-424	260	2956	N
ATOM	809	C	ASN	A	422	34.855	34.791	-40.412	1.00	54.51		C
ANISOU	809	C	ASN	A	422	7760	6272	6679	-107	-77	3020	C
ATOM	810	O	ASN	A	422	34.565	34.742	-41.619	1.00	55.83		O
ANISOU	810	O	ASN	A	422	8008	6590	6613	-71	-108	3185	O
ATOM	811	N	ARG	A	423	34.971	35.936	-39.726	1.00	55.63		N
ANISOU	811	N	ARG	A	423	7940	6128	7070	-139	-56	3090	N
ATOM	812	CA	ARG	A	423	34.778	37.275	-40.329	1.00	58.60		C
ANISOU	812	CA	ARG	A	423	8467	6310	7489	-134	-63	3384	C
ATOM	813	CB	ARG	A	423	35.154	38.368	-39.309	1.00	59.00		C
ANISOU	813	CB	ARG	A	423	8531	6029	7855	-205	-10	3374	C
ATOM	814	CG	ARG	A	423	35.137	39.808	-39.824	1.00	63.01		C
ANISOU	814	CG	ARG	A	423	9207	6282	8454	-228	9	3672	C
ATOM	815	CD	ARG	A	423	35.119	40.813	-38.669	1.00	63.11		C
ANISOU	815	CD	ARG	A	423	9229	5943	8808	-243	11	3608	C
ATOM	816	NE	ARG	A	423	35.372	42.173	-39.147	1.00	69.55		N
ANISOU	816	NE	ARG	A	423	10211	6488	9728	-310	65	3886	N
ATOM	817	CZ	ARG	A	423	35.212	43.291	-38.432	1.00	71.04		C
ANISOU	817	CZ	ARG	A	423	10463	6323	10208	-303	54	3903	C
ATOM	818	NH1	ARG	A	423	34.780	43.251	-37.173	1.00	69.69		N
ANISOU	818	NH1	ARG	A	423	10195	6035	10247	-226	-8	3649	N
ATOM	819	NH2	ARG	A	423	35.491	44.463	-38.983	1.00	73.29		N
ANISOU	819	NH2	ARG	A	423	10914	6362	10570	-377	112	4175	N
ATOM	820	C	ARG	A	423	35.554	37.441	-41.644	1.00	60.66		C
ANISOU	820	C	ARG	A	423	8824	6708	7516	-250	52	3610	C
ATOM	821	O	ARG	A	423	34.991	37.878	-42.656	1.00	63.13		O
ANISOU	821	O	ARG	A	423	9263	7049	7676	-176	-13	3852	O
ATOM	822	N	ALA	A	424	36.833	37.059	-41.619	1.00	60.09		N
ANISOU	822	N	ALA	A	424	8685	6740	7406	-424	220	3525	N
ATOM	823	CA	ALA	A	424	37.733	37.087	-42.782	1.00	61.86		C
ANISOU	823	CA	ALA	A	424	8968	7132	7403	-560	366	3695	C
ATOM	824	CB	ALA	A	424	39.184	37.099	-42.313	1.00	61.84		C
ANISOU	824	CB	ALA	A	424	8869	7119	7507	-766	558	3590	C
ATOM	825	C	ALA	A	424	37.525	35.953	-43.803	1.00	61.47		C
ANISOU	825	C	ALA	A	424	8907	7435	7014	-498	342	3661	C
ATOM	826	O	ALA	A	424	38.302	35.834	-44.758	1.00	63.06		O
ANISOU	826	O	ALA	A	424	9142	7818	7001	-608	476	3765	O
ATOM	827	N	ASN	A	425	36.503	35.117	-43.583	1.00	59.19		N
ANISOU	827	N	ASN	A	425	8565	7245	6681	-334	181	3501	N
ATOM	828	CA	ASN	A	425	36.066	34.070	-44.533	1.00	58.70		C
ANISOU	828	CA	ASN	A	425	8501	7493	6310	-257	119	3455	C
ATOM	829	CB	ASN	A	425	35.834	34.650	-45.946	1.00	61.60		C
ANISOU	829	CB	ASN	A	425	9027	7961	6417	-245	108	3760	C
ATOM	830	CG	ASN	A	425	35.025	33.719	-46.851	1.00	61.89		C
ANISOU	830	CG	ASN	A	425	9073	8290	6153	-127	-18	3714	C
ATOM	831	OD1	ASN	A	425	34.099	33.032	-46.410	1.00	60.11		O
ANISOU	831	OD1	ASN	A	425	8770	8100	5969	-2	-169	3531	O

Figure 18 (continued)

ATOM	832	ND2	ASN	A	425	35.377	33.700	-48.125	1.00	65.09	N
ANISOU	832	ND2	ASN	A	425	9572	8911	6249	-176	49	3875
ATOM	833	C	ASN	A	425	36.992	32.848	-44.543	1.00	56.85	C
ANISOU	833	C	ASN	A	425	8150	7489	5962	-338	240	3221
ATOM	834	O	ASN	A	425	37.088	32.101	-45.516	1.00	57.64	O
ANISOU	834	O	ASN	A	425	8263	7855	5782	-333	263	3202
ATOM	835	N	GLN	A	426	37.662	32.653	-43.424	1.00	54.65	N
ANISOU	835	N	GLN	A	426	7757	7103	5906	-403	310	3033
ATOM	836	CA	GLN	A	426	38.574	31.539	-43.259	1.00	52.90	C
ANISOU	836	CA	GLN	A	426	7412	7061	5626	-461	416	2803
ATOM	837	CB	GLN	A	426	39.823	31.999	-42.501	1.00	53.02	C
ANISOU	837	CB	GLN	A	426	7345	6954	5845	-609	567	2761
ATOM	838	CG	GLN	A	426	40.496	33.214	-43.170	1.00	57.14	C
ANISOU	838	CG	GLN	A	426	7957	7403	6350	-755	700	3030
ATOM	839	CD	GLN	A	426	41.953	33.340	-42.795	1.00	59.04	C
ANISOU	839	CD	GLN	A	426	8085	7648	6699	-930	886	2958
ATOM	840	OE1	GLN	A	426	42.294	33.478	-41.614	1.00	58.44	O
ANISOU	840	OE1	GLN	A	426	7913	7417	6874	-964	882	2816
ATOM	841	NE2	GLN	A	426	42.825	33.277	-43.793	1.00	60.49	N
ANISOU	841	NE2	GLN	A	426	8269	8028	6687	-1044	1051	3047
ATOM	842	C	GLN	A	426	37.859	30.413	-42.543	1.00	49.11	C
ANISOU	842	C	GLN	A	426	6847	6621	5192	-339	290	2547
ATOM	843	O	GLN	A	426	37.235	30.626	-41.508	1.00	47.36	O
ANISOU	843	O	GLN	A	426	6597	6214	5183	-278	192	2479
ATOM	844	N	ARG	A	427	37.920	29.226	-43.133	1.00	48.00	N
ANISOU	844	N	ARG	A	427	6674	6721	4843	-307	298	2408
ATOM	845	CA	ARG	A	427	37.341	28.025	-42.550	1.00	45.29	C
ANISOU	845	CA	ARG	A	427	6256	6425	4525	-212	198	2160
ATOM	846	CB	ARG	A	427	37.621	26.831	-43.471	1.00	45.82	C
ANISOU	846	CB	ARG	A	427	6312	6763	4335	-202	242	2034
ATOM	847	CG	ARG	A	427	37.173	25.507	-42.909	1.00	43.52	C
ANISOU	847	CG	ARG	A	427	5952	6510	4074	-124	162	1771
ATOM	848	CD	ARG	A	427	37.185	24.344	-43.919	1.00	44.50	C
ANISOU	848	CD	ARG	A	427	6088	6884	3937	-97	174	1641
ATOM	849	NE	ARG	A	427	36.589	23.168	-43.281	1.00	42.09	N
ANISOU	849	NE	ARG	A	427	5732	6558	3701	-26	80	1406
ATOM	850	CZ	ARG	A	427	35.305	22.813	-43.382	1.00	41.80	C
ANISOU	850	CZ	ARG	A	427	5721	6535	3625	43	-78	1366
ATOM	851	NH1	ARG	A	427	34.472	23.522	-44.138	1.00	40.53	N
ANISOU	851	NH1	ARG	A	427	5630	6425	3343	70	-173	1541
ATOM	852	NH2	ARG	A	427	34.859	21.734	-42.737	1.00	38.54	N
ANISOU	852	NH2	ARG	A	427	5262	6088	3294	83	-141	1153
ATOM	853	C	ARG	A	427	37.941	27.795	-41.156	1.00	42.92	C
ANISOU	853	C	ARG	A	427	5846	5984	4476	-242	239	1985
ATOM	854	O	ARG	A	427	39.158	27.682	-41.033	1.00	43.19	O
ANISOU	854	O	ARG	A	427	5815	6060	4536	-330	378	1932
ATOM	855	N	LEU	A	428	37.109	27.762	-40.111	1.00	40.68	N
ANISOU	855	N	LEU	A	428	5537	5548	4373	-169	120	1900
ATOM	856	CA	LEU	A	428	37.620	27.491	-38.771	1.00	38.47	C
ANISOU	856	CA	LEU	A	428	5162	5153	4302	-189	146	1733
ATOM	857	CB	LEU	A	428	36.507	27.485	-37.706	1.00	37.16	C
ANISOU	857	CB	LEU	A	428	4983	4836	4300	-103	12	1656
ATOM	858	CG	LEU	A	428	35.520	28.644	-37.563	1.00	38.47	C
ANISOU	858	CG	LEU	A	428	5210	4834	4572	-57	-80	1807
ATOM	859	CD1	LEU	A	428	34.640	28.465	-36.331	1.00	36.49	C
ANISOU	859	CD1	LEU	A	428	4911	4461	4493	17	-177	1674
ATOM	860	CD2	LEU	A	428	36.231	29.983	-37.520	1.00	40.33	C
ANISOU	860	CD2	LEU	A	428	5484	4917	4922	-147	4	1968
ATOM	861	C	LEU	A	428	38.327	26.130	-38.791	1.00	37.36	C
ANISOU	861	C	LEU	A	428	4947	5175	4073	-187	206	1533
ATOM	862	O	LEU	A	428	37.927	25.217	-39.528	1.00	37.44	O
ANISOU	862	O	LEU	A	428	4980	5342	3905	-134	173	1466
ATOM	863	N	ASN	A	429	39.393	26.000	-38.005	1.00	36.22	N
ANISOU	863	N	ASN	A	429	4713	4996	4055	-240	291	1432
ATOM	864	CA	ASN	A	429	40.027	24.699	-37.838	1.00	35.15	C
ANISOU	864	CA	ASN	A	429	4501	4981	3874	-209	331	1232
ATOM	865	CB	ASN	A	429	41.422	24.797	-37.154	1.00	35.29	C
ANISOU	865	CB	ASN	A	429	4406	4986	4018	-278	438	1162
ATOM	866	CG	ASN	A	429	41.376	25.137	-35.654	1.00	34.45	C
ANISOU	866	CG	ASN	A	429	4253	4696	4142	-277	377	1100
ATOM	867	OD1	ASN	A	429	40.351	25.025	-34.971	1.00	33.81	O

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Figure 18 (continued)

ANISOU	867	OD1	ASN	A	429	4210	4506	4130	-211	263	1066	O
ATOM	868	ND2	ASN	A	429	42.531	25.532	-35.132	1.00	32.90		N
ANISOU	868	ND2	ASN	A	429	3961	4484	4057	-356	458	1073	N
ATOM	869	C	ASN	A	429	39.062	23.680	-37.199	1.00	32.57		C
ANISOU	869	C	ASN	A	429	4181	4618	3577	-107	207	1081	C
ATOM	870	O	ASN	A	429	38.051	24.074	-36.619	1.00	31.85		O
ANISOU	870	O	ASN	A	429	4121	4399	3582	-74	105	1113	O
ATOM	871	N	PRO	A	430	39.325	22.378	-37.376	1.00	31.96		N
ANISOU	871	N	PRO	A	430	4076	4654	3413	-60	223	919	N
ATOM	872	CA	PRO	A	430	38.489	21.306	-36.827	1.00	30.42		C
ANISOU	872	CA	PRO	A	430	3895	4422	3243	19	122	773	C
ATOM	873	CB	PRO	A	430	39.374	20.073	-36.998	1.00	30.52		C
ANISOU	873	CB	PRO	A	430	3865	4539	3194	51	191	608	C
ATOM	874	CG	PRO	A	430	40.115	20.354	-38.256	1.00	32.63		C
ANISOU	874	CG	PRO	A	430	4130	4972	3296	8	302	673	C
ATOM	875	CD	PRO	A	430	40.439	21.822	-38.174	1.00	33.57		C
ANISOU	875	CD	PRO	A	430	4239	5029	3487	-78	346	859	C
ATOM	876	C	PRO	A	430	38.030	21.452	-35.362	1.00	28.84		C
ANISOU	876	C	PRO	A	430	3672	4045	3243	38	48	733	C
ATOM	877	O	PRO	A	430	36.844	21.250	-35.072	1.00	28.54		O
ANISOU	877	O	PRO	A	430	3669	3949	3226	76	-51	715	O
ATOM	878	N	MSE	A	431	38.938	21.798	-34.454	1.00	27.42		N
ANISOU	878	N	MSE	A	431	3425	3793	3198	8	97	713	N
ATOM	879	CA	MSE	A	431	38.573	21.963	-33.044	1.00	25.88		C
ANISOU	879	CA	MSE	A	431	3213	3450	3172	23	33	670	C
ATOM	880	CB	MSE	A	431	39.832	22.116	-32.159	1.00	25.62		C
ANISOU	880	CB	MSE	A	431	3094	3390	3252	-8	89	615	C
ATOM	881	CG	MSE	A	431	40.705	20.833	-32.079	1.00	26.44		C
ANISOU	881	CG	MSE	A	431	3147	3586	3315	45	124	475	C
ATOM	882	SE	MSE	A	431	39.842	19.246	-31.234	0.90	30.28		SE
ANISOU	882	SE	MSE	A	431	3685	4010	3809	150	26	327	SE
ATOM	883	CE	MSE	A	431	39.652	20.084	-29.473	1.00	25.02		C
ANISOU	883	CE	MSE	A	431	2993	3190	3324	126	-33	340	C
ATOM	884	C	MSE	A	431	37.575	23.100	-32.781	1.00	25.36		C
ANISOU	884	C	MSE	A	431	3187	3264	3186	9	-30	783	C
ATOM	885	O	MSE	A	431	36.673	22.960	-31.939	1.00	24.38		O
ANISOU	885	O	MSE	A	431	3073	3052	3140	47	-107	735	O
ATOM	886	N	HIS	A	432	37.743	24.212	-33.483	1.00	26.43		N
ANISOU	886	N	HIS	A	432	3345	3391	3306	-42	7	933	N
ATOM	887	CA	HIS	A	432	36.804	25.342	-33.406	1.00	27.85		C
ANISOU	887	CA	HIS	A	432	3573	3450	3560	-37	-53	1055	C
ATOM	888	CB	HIS	A	432	37.483	26.636	-33.864	1.00	29.15		C
ANISOU	888	CB	HIS	A	432	3755	3560	3759	-119	20	1213	C
ATOM	889	CG	HIS	A	432	38.458	27.164	-32.859	1.00	31.05		C
ANISOU	889	CG	HIS	A	432	3933	3702	4163	-191	77	1164	C
ATOM	890	ND1	HIS	A	432	39.711	26.614	-32.671	1.00	31.07		N
ANISOU	890	ND1	HIS	A	432	3853	3795	4157	-238	156	1070	N
ATOM	891	CE1	HIS	A	432	40.338	27.277	-31.714	1.00	33.02		C
ANISOU	891	CE1	HIS	A	432	4046	3937	4562	-300	177	1035	C
ATOM	892	NE2	HIS	A	432	39.529	28.221	-31.255	1.00	32.01		N
ANISOU	892	NE2	HIS	A	432	3972	3642	4547	-295	121	1094	N
ATOM	893	CD2	HIS	A	432	38.348	28.170	-31.956	1.00	32.70		C
ANISOU	893	CD2	HIS	A	432	4141	3736	4548	-220	58	1179	C
ATOM	894	C	HIS	A	432	35.510	25.078	-34.165	1.00	27.83		C
ANISOU	894	C	HIS	A	432	3625	3502	3447	29	-143	1098	C
ATOM	895	O	HIS	A	432	34.466	25.587	-33.800	1.00	28.93		O
ANISOU	895	O	HIS	A	432	3780	3549	3665	73	-223	1134	O
ATOM	896	N	GLN	A	433	35.608	24.283	-35.217	1.00	28.16		N
ANISOU	896	N	GLN	A	433	3686	3705	3308	38	-128	1081	N
ATOM	897	CA	GLN	A	433	34.467	23.712	-35.940	1.00	29.30		C
ANISOU	897	CA	GLN	A	433	3866	3942	3324	95	-220	1070	C
ATOM	898	CB	GLN	A	433	35.053	22.746	-36.985	1.00	30.36		C
ANISOU	898	CB	GLN	A	433	4014	4260	3263	84	-165	1008	C
ATOM	899	CG	GLN	A	433	34.400	22.595	-38.320	1.00	34.65		C
ANISOU	899	CG	GLN	A	433	4611	4954	3599	106	-217	1065	C
ATOM	900	CD	GLN	A	433	34.134	23.881	-39.054	1.00	37.03		C
ANISOU	900	CD	GLN	A	433	4967	5253	3848	101	-235	1288	C
ATOM	901	OE1	GLN	A	433	32.987	24.307	-39.137	1.00	38.30		O
ANISOU	901	OE1	GLN	A	433	5148	5383	4022	154	-351	1359	O
ATOM	902	NE2	GLN	A	433	35.176	24.486	-39.632	1.00	38.30		N
ANISOU	902	NE2	GLN	A	433	5153	5454	3945	38	-121	1405	N

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Figure 18 (continued)

ATOM	903	C	GLN	A	433	33.551	22.973	-34.938	1.00	27.21		C
ANISOU	903	C	GLN	A	433	3569	3614	3155	140	-301	930	C
ATOM	904	O	GLN	A	433	32.367	23.270	-34.843	1.00	26.79		O
ANISOU	904	O	GLN	A	433	3518	3526	3136	182	-393	960	O
ATOM	905	N	LEU	A	434	34.134	22.047	-34.166	1.00	25.47		N
ANISOU	905	N	LEU	A	434	3317	3379	2983	132	-261	785	N
ATOM	906	CA	LEU	A	434	33.444	21.324	-33.076	1.00	23.90		C
ANISOU	906	CA	LEU	A	434	3095	3107	2877	157	-313	662	C
ATOM	907	CB	LEU	A	434	34.364	20.255	-32.466	1.00	21.96		C
ANISOU	907	CB	LEU	A	434	2834	2862	2649	154	-258	530	C
ATOM	908	CG	LEU	A	434	34.764	19.139	-33.439	1.00	23.59		C
ANISOU	908	CG	LEU	A	434	3064	3192	2709	164	-230	450	C
ATOM	909	CD1	LEU	A	434	35.976	18.335	-32.918	1.00	20.60		C
ANISOU	909	CD1	LEU	A	434	2659	2806	2361	179	-162	347	C
ATOM	910	CD2	LEU	A	434	33.550	18.247	-33.779	1.00	19.71		C
ANISOU	910	CD2	LEU	A	434	2602	2734	2153	179	-308	372	C
ATOM	911	C	LEU	A	434	32.955	22.243	-31.952	1.00	23.68		C
ANISOU	911	C	LEU	A	434	3044	2938	3017	164	-342	696	C
ATOM	912	O	LEU	A	434	31.826	22.090	-31.488	1.00	22.82		O
ANISOU	912	O	LEU	A	434	2922	2795	2954	191	-409	658	O
ATOM	913	N	LEU	A	435	33.830	23.153	-31.512	1.00	23.88		N
ANISOU	913	N	LEU	A	435	3056	2886	3130	132	-286	752	N
ATOM	914	CA	LEU	A	435	33.499	24.163	-30.507	1.00	25.30		C
ANISOU	914	CA	LEU	A	435	3221	2926	3468	134	-304	776	C
ATOM	915	CB	LEU	A	435	34.675	25.123	-30.289	1.00	25.47		C
ANISOU	915	CB	LEU	A	435	3231	2880	3567	76	-233	832	C
ATOM	916	CG	LEU	A	435	34.639	26.078	-29.094	1.00	25.12		C
ANISOU	916	CG	LEU	A	435	3169	2684	3693	62	-237	814	C
ATOM	917	CD1	LEU	A	435	34.703	25.341	-27.754	1.00	24.17		C
ANISOU	917	CD1	LEU	A	435	3012	2549	3622	73	-247	664	C
ATOM	918	CD2	LEU	A	435	35.784	27.023	-29.203	1.00	25.51		C
ANISOU	918	CD2	LEU	A	435	3211	2680	3803	-15	-167	880	C
ATOM	919	C	LEU	A	435	32.245	24.976	-30.853	1.00	27.05		C
ANISOU	919	C	LEU	A	435	3458	3104	3717	181	-377	868	C
ATOM	920	O	LEU	A	435	31.290	25.013	-30.067	1.00	27.13		O
ANISOU	920	O	LEU	A	435	3441	3056	3810	219	-426	813	O
ATOM	921	N	ARG	A	436	32.256	25.645	-32.008	1.00	29.13		N
ANISOU	921	N	ARG	A	436	3760	3400	3908	183	-382	1011	N
ATOM	922	CA	ARG	A	436	31.117	26.464	-32.400	1.00	30.76		C
ANISOU	922	CA	ARG	A	436	3982	3566	4140	248	-463	1117	C
ATOM	923	CB	ARG	A	436	31.376	27.299	-33.659	1.00	33.08		C
ANISOU	923	CB	ARG	A	436	4340	3883	4346	244	-457	1307	C
ATOM	924	CG	ARG	A	436	32.474	28.404	-33.560	1.00	40.00		C
ANISOU	924	CG	ARG	A	436	5252	4636	5311	174	-367	1413	C
ATOM	925	CD	ARG	A	436	32.607	29.153	-32.189	1.00	47.23		C
ANISOU	925	CD	ARG	A	436	6140	5358	6447	160	-347	1351	C
ATOM	926	NE	ARG	A	436	34.019	29.442	-31.860	1.00	51.94		N
ANISOU	926	NE	ARG	A	436	6729	5911	7097	53	-242	1339	N
ATOM	927	CZ	ARG	A	436	34.460	30.070	-30.761	1.00	55.22		C
ANISOU	927	CZ	ARG	A	436	7119	6181	7681	10	-211	1275	C
ATOM	928	NH1	ARG	A	436	33.623	30.495	-29.823	1.00	56.84		N
ANISOU	928	NH1	ARG	A	436	7313	6263	8019	70	-265	1212	N
ATOM	929	NH2	ARG	A	436	35.766	30.280	-30.592	1.00	56.92		N
ANISOU	929	NH2	ARG	A	436	7311	6387	7930	-96	-122	1262	N
ATOM	930	C	ARG	A	436	29.860	25.608	-32.560	1.00	29.85		C
ANISOU	930	C	ARG	A	436	3833	3546	3961	304	-554	1040	C
ATOM	931	O	ARG	A	436	28.781	26.041	-32.179	1.00	29.79		O
ANISOU	931	O	ARG	A	436	3791	3486	4041	365	-622	1042	O
ATOM	932	N	HIS	A	437	30.000	24.397	-33.106	1.00	28.56		N
ANISOU	932	N	HIS	A	437	3672	3522	3657	280	-551	961	N
ATOM	933	CA	HIS	A	437	28.855	23.524	-33.256	1.00	27.62		C
ANISOU	933	CA	HIS	A	437	3517	3491	3485	308	-633	872	C
ATOM	934	CB	HIS	A	437	29.238	22.173	-33.872	1.00	26.97		C
ANISOU	934	CB	HIS	A	437	3455	3538	3253	269	-613	771	C
ATOM	935	CG	HIS	A	437	28.094	21.203	-33.939	1.00	24.96		C
ANISOU	935	CG	HIS	A	437	3163	3358	2963	273	-691	657	C
ATOM	936	ND1	HIS	A	437	27.096	21.289	-34.889	1.00	23.43		N
ANISOU	936	ND1	HIS	A	437	2950	3277	2675	305	-793	694	N
ATOM	937	CE1	HIS	A	437	26.222	20.315	-34.704	1.00	23.02		C
ANISOU	937	CE1	HIS	A	437	2852	3273	2623	283	-843	560	C
ATOM	938	NE2	HIS	A	437	26.611	19.602	-33.660	1.00	24.74		N

Figure 18 (continued)

ANISOU	938	NE2	HIS	A	437	3071	3399	2929	238	-771	453	N
ATOM	939	CD2	HIS	A	437	27.787	20.134	-33.169	1.00	22.63		C
ANISOU	939	CD2	HIS	A	437	2844	3039	2717	240	-683	510	C
ATOM	940	C	HIS	A	437	28.175	23.327	-31.894	1.00	26.83		C
ANISOU	940	C	HIS	A	437	3359	3302	3534	317	-643	763	C
ATOM	941	O	HIS	A	437	26.971	23.545	-31.765	1.00	27.43		O
ANISOU	941	O	HIS	A	437	3383	3382	3658	363	-717	757	O
ATOM	942	N	PHE	A	438	28.958	22.972	-30.878	1.00	25.29		N
ANISOU	942	N	PHE	A	438	3167	3035	3407	276	-569	682	N
ATOM	943	CA	PHE	A	438	28.394	22.684	-29.559	1.00	24.57		C
ANISOU	943	CA	PHE	A	438	3034	2877	3426	274	-566	579	C
ATOM	944	CB	PHE	A	438	29.261	21.668	-28.812	1.00	22.50		C
ANISOU	944	CB	PHE	A	438	2794	2601	3155	227	-502	477	C
ATOM	945	CG	PHE	A	438	29.231	20.302	-29.427	1.00	20.80		C
ANISOU	945	CG	PHE	A	438	2601	2477	2826	203	-510	405	C
ATOM	946	CD1	PHE	A	438	28.021	19.574	-29.486	1.00	20.00		C
ANISOU	946	CD1	PHE	A	438	2472	2420	2708	192	-562	337	C
ATOM	947	CE1	PHE	A	438	27.970	18.314	-30.056	1.00	18.22		C
ANISOU	947	CE1	PHE	A	438	2274	2260	2389	160	-571	256	C
ATOM	948	CZ	PHE	A	438	29.155	17.745	-30.605	1.00	20.73		C
ANISOU	948	CZ	PHE	A	438	2649	2605	2624	156	-525	238	C
ATOM	949	CE2	PHE	A	438	30.357	18.468	-30.569	1.00	17.04		C
ANISOU	949	CE2	PHE	A	438	2194	2113	2167	174	-469	308	C
ATOM	950	CD2	PHE	A	438	30.383	19.739	-29.965	1.00	19.46		C
ANISOU	950	CD2	PHE	A	438	2473	2349	2573	188	-464	392	C
ATOM	951	C	PHE	A	438	28.046	23.929	-28.731	1.00	25.24		C
ANISOU	951	C	PHE	A	438	3090	2842	3658	311	-567	615	C
ATOM	952	O	PHE	A	438	27.189	23.875	-27.871	1.00	24.41		O
ANISOU	952	O	PHE	A	438	2936	2710	3630	328	-580	543	O
ATOM	953	N	GLN	A	439	28.691	25.057	-29.040	1.00	27.21		N
ANISOU	953	N	GLN	A	439	3372	3021	3947	320	-548	723	N
ATOM	954	CA	GLN	A	439	28.316	26.353	-28.476	1.00	28.57		C
ANISOU	954	CA	GLN	A	439	3530	3062	4264	365	-557	766	C
ATOM	955	CB	GLN	A	439	29.395	27.400	-28.724	1.00	29.66		C
ANISOU	955	CB	GLN	A	439	3721	3102	4446	335	-509	870	C
ATOM	956	CG	GLN	A	439	30.531	27.306	-27.690	1.00	30.49		C
ANISOU	956	CG	GLN	A	439	3826	3151	4608	264	-433	781	C
ATOM	957	CD	GLN	A	439	31.679	28.234	-27.997	1.00	34.96		C
ANISOU	957	CD	GLN	A	439	4429	3638	5214	207	-379	871	C
ATOM	958	OE1	GLN	A	439	31.762	28.782	-29.090	1.00	38.23		O
ANISOU	958	OE1	GLN	A	439	4884	4053	5587	208	-383	1013	O
ATOM	959	NE2	GLN	A	439	32.570	28.423	-27.029	1.00	35.77		N
ANISOU	959	NE2	GLN	A	439	4515	3679	5395	149	-329	791	N
ATOM	960	C	GLN	A	439	26.934	26.813	-28.925	1.00	29.99		C
ANISOU	960	C	GLN	A	439	3669	3257	4470	454	-644	815	C
ATOM	961	O	GLN	A	439	26.223	27.399	-28.120	1.00	30.12		O
ANISOU	961	O	GLN	A	439	3639	3192	4612	505	-655	772	O
ATOM	962	N	LYS	A	440	26.528	26.494	-30.162	1.00	31.18		N
ANISOU	962	N	LYS	A	440	3825	3525	4496	477	-708	887	N
ATOM	963	CA	LYS	A	440	25.142	26.739	-30.603	1.00	33.51		C
ANISOU	963	CA	LYS	A	440	4058	3873	4799	568	-811	916	C
ATOM	964	CB	LYS	A	440	24.983	26.655	-32.140	1.00	35.28		C
ANISOU	964	CB	LYS	A	440	4316	4227	4864	593	-887	1034	C
ATOM	965	CG	LYS	A	440	25.813	27.704	-32.903	1.00	37.77		C
ANISOU	965	CG	LYS	A	440	4728	4471	5152	603	-867	1220	C
ATOM	966	CD	LYS	A	440	25.401	27.909	-34.364	1.00	39.08		C
ANISOU	966	CD	LYS	A	440	4927	4756	5164	659	-961	1367	C
ATOM	967	CE	LYS	A	440	26.117	29.152	-34.913	1.00	43.76		C
ANISOU	967	CE	LYS	A	440	5623	5235	5768	670	-931	1574	C
ATOM	968	NZ	LYS	A	440	25.782	29.513	-36.329	1.00	47.40		N
ANISOU	968	NZ	LYS	A	440	6140	5801	6067	730	-1019	1756	N
ATOM	969	C	LYS	A	440	24.114	25.822	-29.905	1.00	32.70		C
ANISOU	969	C	LYS	A	440	3858	3844	4721	562	-831	761	C
ATOM	970	O	LYS	A	440	23.029	26.285	-29.495	1.00	33.55		O
ANISOU	970	O	LYS	A	440	3882	3936	4931	635	-876	735	O
ATOM	971	N	ASP	A	441	24.440	24.539	-29.780	1.00	30.72		N
ANISOU	971	N	ASP	A	441	3617	3671	4384	475	-794	659	N
ATOM	972	CA	ASP	A	441	23.533	23.580	-29.155	1.00	30.83		C
ANISOU	972	CA	ASP	A	441	3554	3747	4415	443	-800	522	C
ATOM	973	CB	ASP	A	441	22.400	23.160	-30.119	1.00	33.58		C
ANISOU	973	CB	ASP	A	441	3830	4241	4688	466	-905	515	C

Figure 18 (continued)

ATOM	974	CG	ASP	A	441	21.496	22.044	-29.536	1.00	36.33		C
ANISOU	974	CG	ASP	A	441	4094	4658	5053	398	-900	365	C
ATOM	975	OD1	ASP	A	441	20.945	22.224	-28.422	1.00	37.04		O
ANISOU	975	OD1	ASP	A	441	4116	4697	5259	402	-859	301	O
ATOM	976	OD2	ASP	A	441	21.344	20.987	-30.206	1.00	39.15		O
ANISOU	976	OD2	ASP	A	441	4455	5117	5303	335	-932	308	O
ATOM	977	C	ASP	A	441	24.280	22.357	-28.620	1.00	28.33		C
ANISOU	977	C	ASP	A	441	3285	3430	4047	345	-724	424	C
ATOM	978	O	ASP	A	441	24.976	21.649	-29.360	1.00	27.35		O
ANISOU	978	O	ASP	A	441	3222	3360	3809	305	-718	428	O
ATOM	979	N	ALA	A	442	24.125	22.122	-27.320	1.00	26.96		N
ANISOU	979	N	ALA	A	442	3088	3198	3956	316	-666	338	N
ATOM	980	CA	ALA	A	442	24.818	21.037	-26.645	1.00	24.82		C
ANISOU	980	CA	ALA	A	442	2872	2908	3650	240	-598	261	C
ATOM	981	CB	ALA	A	442	25.668	21.599	-25.523	1.00	23.21		C
ANISOU	981	CB	ALA	A	442	2703	2600	3517	243	-531	259	C
ATOM	982	C	ALA	A	442	23.960	19.870	-26.145	1.00	24.67		C
ANISOU	982	C	ALA	A	442	2817	2932	3624	175	-587	156	C
ATOM	983	O	ALA	A	442	24.488	19.030	-25.378	1.00	25.14		O
ANISOU	983	O	ALA	A	442	2932	2949	3670	120	-527	105	O
ATOM	984	N	LYS	A	443	22.691	19.779	-26.585	1.00	24.95		N
ANISOU	984	N	LYS	A	443	2761	3052	3668	177	-646	129	N
ATOM	985	CA	LYS	A	443	21.742	18.689	-26.217	1.00	25.03		C
ANISOU	985	CA	LYS	A	443	2718	3111	3680	93	-634	28	C
ATOM	986	CB	LYS	A	443	20.371	18.874	-26.875	1.00	27.31		C
ANISOU	986	CB	LYS	A	443	2874	3514	3986	110	-718	6	C
ATOM	987	CG	LYS	A	443	19.531	19.967	-26.291	1.00	31.52		C
ANISOU	987	CG	LYS	A	443	3294	4049	4632	188	-724	14	C
ATOM	988	CD	LYS	A	443	18.276	20.175	-27.156	1.00	38.16		C
ANISOU	988	CD	LYS	A	443	3995	5022	5481	230	-832	4	C
ATOM	989	CE	LYS	A	443	17.658	21.570	-26.901	1.00	44.11		C
ANISOU	989	CE	LYS	A	443	4650	5761	6348	365	-863	48	C
ATOM	990	NZ	LYS	A	443	16.692	21.975	-27.987	1.00	44.43		N
ANISOU	990	NZ	LYS	A	443	4575	5926	6381	450	-1000	80	N
ATOM	991	C	LYS	A	443	22.191	17.276	-26.526	1.00	23.86		C
ANISOU	991	C	LYS	A	443	2652	2965	3449	5	-617	-26	C
ATOM	992	O	LYS	A	443	22.087	16.413	-25.659	1.00	22.54		O
ANISOU	992	O	LYS	A	443	2510	2753	3301	-71	-554	-86	O
ATOM	993	N	VAL	A	444	22.654	17.043	-27.761	1.00	23.85		N
ANISOU	993	N	VAL	A	444	2695	3013	3353	17	-669	-5	N
ATOM	994	CA	VAL	A	444	23.079	15.707	-28.183	1.00	23.44		C
ANISOU	994	CA	VAL	A	444	2724	2958	3226	-53	-656	-74	C
ATOM	995	CB	VAL	A	444	23.278	15.593	-29.728	1.00	24.08		C
ANISOU	995	CB	VAL	A	444	2823	3139	3186	-33	-728	-69	C
ATOM	996	CG1	VAL	A	444	23.640	14.169	-30.129	1.00	23.87		C
ANISOU	996	CG1	VAL	A	444	2877	3100	3093	-104	-710	-171	C
ATOM	997	CG2	VAL	A	444	22.026	16.031	-30.447	1.00	24.33		C
ANISOU	997	CG2	VAL	A	444	2743	3297	3206	-20	-828	-70	C
ATOM	998	C	VAL	A	444	24.327	15.306	-27.408	1.00	22.67		C
ANISOU	998	C	VAL	A	444	2733	2748	3133	-54	-574	-66	C
ATOM	999	O	VAL	A	444	24.445	14.151	-26.968	1.00	24.02		O
ANISOU	999	O	VAL	A	444	2963	2860	3303	-117	-534	-131	O
ATOM	1000	N	LEU	A	445	25.228	16.270	-27.203	1.00	20.80		N
ANISOU	1000	N	LEU	A	445	2516	2477	2910	16	-553	14	N
ATOM	1001	CA	LEU	A	445	26.470	16.029	-26.491	1.00	19.22		C
ANISOU	1001	CA	LEU	A	445	2395	2194	2715	28	-491	22	C
ATOM	1002	CB	LEU	A	445	27.355	17.284	-26.540	1.00	18.43		C
ANISOU	1002	CB	LEU	A	445	2290	2081	2632	92	-482	107	C
ATOM	1003	CG	LEU	A	445	28.698	17.335	-25.788	1.00	16.91		C
ANISOU	1003	CG	LEU	A	445	2147	1823	2456	111	-430	119	C
ATOM	1004	CD1	LEU	A	445	29.714	16.292	-26.272	1.00	15.64		C
ANISOU	1004	CD1	LEU	A	445	2050	1668	2225	114	-410	86	C
ATOM	1005	CD2	LEU	A	445	29.301	18.716	-25.861	1.00	17.13		C
ANISOU	1005	CD2	LEU	A	445	2149	1839	2522	148	-425	195	C
ATOM	1006	C	LEU	A	445	26.221	15.634	-25.038	1.00	19.21		C
ANISOU	1006	C	LEU	A	445	2405	2118	2774	-10	-439	-11	C
ATOM	1007	O	LEU	A	445	26.803	14.665	-24.554	1.00	20.41		O
ANISOU	1007	O	LEU	A	445	2635	2211	2909	-32	-404	-39	O
ATOM	1008	N	PHE	A	446	25.386	16.416	-24.350	1.00	18.58		N
ANISOU	1008	N	PHE	A	446	2252	2045	2761	-8	-434	-3	N
ATOM	1009	CA	PHE	A	446	25.072	16.215	-22.948	1.00	17.93		C

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Figure 18 (continued)

ANISOU	1009	CA	PHE	A	446	2174	1919	2722	-43	-376	-31	C
ATOM	1010	CB	PHE	A	446	24.302	17.424	-22.372	1.00	18.01		C
ANISOU	1010	CB	PHE	A	446	2089	1949	2806	-10	-370	-27	C
ATOM	1011	CG	PHE	A	446	25.186	18.610	-21.966	1.00	17.40		C
ANISOU	1011	CG	PHE	A	446	2025	1826	2762	59	-363	15	C
ATOM	1012	CD1	PHE	A	446	26.531	18.664	-22.307	1.00	16.25		C
ANISOU	1012	CD1	PHE	A	446	1946	1647	2580	85	-369	55	C
ATOM	1013	CE1	PHE	A	446	27.333	19.740	-21.958	1.00	16.45		C
ANISOU	1013	CE1	PHE	A	446	1974	1630	2646	127	-361	84	C
ATOM	1014	CZ	PHE	A	446	26.800	20.806	-21.285	1.00	17.43		C
ANISOU	1014	CZ	PHE	A	446	2046	1728	2849	153	-350	69	C
ATOM	1015	CE2	PHE	A	446	25.447	20.791	-20.941	1.00	21.09		C
ANISOU	1015	CE2	PHE	A	446	2441	2224	3346	147	-342	25	C
ATOM	1016	CD2	PHE	A	446	24.639	19.701	-21.302	1.00	18.75		C
ANISOU	1016	CD2	PHE	A	446	2128	1987	3008	97	-348	2	C
ATOM	1017	C	PHE	A	446	24.270	14.927	-22.727	1.00	18.39		C
ANISOU	1017	C	PHE	A	446	2246	1974	2768	-139	-353	-89	C
ATOM	1018	O	PHE	A	446	24.607	14.160	-21.843	1.00	18.65		O
ANISOU	1018	O	PHE	A	446	2357	1942	2788	-177	-302	-95	O
ATOM	1019	N	GLN	A	447	23.240	14.694	-23.545	1.00	18.81		N
ANISOU	1019	N	GLN	A	447	2227	2095	2824	-180	-394	-128	N
ATOM	1020	CA	GLN	A	447	22.379	13.508	-23.457	1.00	19.67		C
ANISOU	1020	CA	GLN	A	447	2333	2203	2937	-294	-374	-195	C
ATOM	1021	CB	GLN	A	447	21.108	13.676	-24.326	1.00	19.41		C
ANISOU	1021	CB	GLN	A	447	2168	2284	2922	-326	-437	-243	C
ATOM	1022	CG	GLN	A	447	20.183	14.825	-23.916	1.00	20.98		C
ANISOU	1022	CG	GLN	A	447	2223	2556	3190	-282	-442	-234	C
ATOM	1023	CD	GLN	A	447	19.493	14.638	-22.559	1.00	23.91		C
ANISOU	1023	CD	GLN	A	447	2554	2915	3616	-353	-348	-267	C
ATOM	1024	OE1	GLN	A	447	19.925	13.841	-21.725	1.00	20.75		O
ANISOU	1024	OE1	GLN	A	447	2258	2433	3195	-418	-273	-264	O
ATOM	1025	NE2	GLN	A	447	18.419	15.397	-22.335	1.00	26.39		N
ANISOU	1025	NE2	GLN	A	447	2715	3316	3997	-331	-350	-295	N
ATOM	1026	C	GLN	A	447	23.084	12.169	-23.771	1.00	20.15		C
ANISOU	1026	C	GLN	A	447	2524	2184	2950	-339	-364	-221	C
ATOM	1027	O	GLN	A	447	22.659	11.125	-23.307	1.00	21.51		O
ANISOU	1027	O	GLN	A	447	2739	2297	3136	-437	-322	-259	O
ATOM	1028	N	ASN	A	448	24.170	12.210	-24.531	1.00	20.43		N
ANISOU	1028	N	ASN	A	448	2621	2207	2934	-265	-396	-202	N
ATOM	1029	CA	ASN	A	448	24.872	11.006	-24.958	1.00	22.00		C
ANISOU	1029	CA	ASN	A	448	2933	2333	3092	-282	-391	-242	C
ATOM	1030	CB	ASN	A	448	25.032	10.974	-26.496	1.00	22.08		C
ANISOU	1030	CB	ASN	A	448	2930	2422	3036	-256	-453	-284	C
ATOM	1031	CG	ASN	A	448	23.720	10.673	-27.209	1.00	23.31		C
ANISOU	1031	CG	ASN	A	448	3009	2660	3190	-343	-504	-359	C
ATOM	1032	OD1	ASN	A	448	23.280	9.533	-27.269	1.00	24.47		O
ANISOU	1032	OD1	ASN	A	448	3195	2755	3349	-439	-495	-443	O
ATOM	1033	ND2	ASN	A	448	23.088	11.703	-27.735	1.00	23.68		N
ANISOU	1033	ND2	ASN	A	448	2941	2828	3226	-310	-563	-330	N
ATOM	1034	C	ASN	A	448	26.213	10.800	-24.295	1.00	21.90		C
ANISOU	1034	C	ASN	A	448	3021	2230	3070	-213	-353	-198	C
ATOM	1035	O	ASN	A	448	26.856	9.772	-24.513	1.00	23.82		O
ANISOU	1035	O	ASN	A	448	3361	2395	3293	-206	-344	-230	O
ATOM	1036	N	TRP	A	449	26.606	11.740	-23.448	1.00	22.09		N
ANISOU	1036	N	TRP	A	449	3019	2260	3112	-160	-334	-133	N
ATOM	1037	CA	TRP	A	449	27.908	11.699	-22.745	1.00	22.12		C
ANISOU	1037	CA	TRP	A	449	3095	2205	3105	-89	-313	-92	C
ATOM	1038	CB	TRP	A	449	28.184	13.060	-22.066	1.00	21.28		C
ANISOU	1038	CB	TRP	A	449	2925	2138	3020	-41	-308	-42	C
ATOM	1039	CG	TRP	A	449	29.534	13.158	-21.367	1.00	21.14		C
ANISOU	1039	CG	TRP	A	449	2955	2087	2990	28	-301	-10	C
ATOM	1040	CD1	TRP	A	449	29.786	12.971	-20.040	1.00	20.23		C
ANISOU	1040	CD1	TRP	A	449	2886	1931	2868	31	-278	10	C
ATOM	1041	NE1	TRP	A	449	31.129	13.124	-19.779	1.00	19.99		N
ANISOU	1041	NE1	TRP	A	449	2874	1899	2823	107	-295	28	N
ATOM	1042	CE2	TRP	A	449	31.780	13.406	-20.950	1.00	20.43		C
ANISOU	1042	CE2	TRP	A	449	2892	1990	2881	146	-314	19	C
ATOM	1043	CD2	TRP	A	449	30.800	13.453	-21.976	1.00	19.62		C
ANISOU	1043	CD2	TRP	A	449	2757	1916	2781	100	-319	1	C
ATOM	1044	CE3	TRP	A	449	31.205	13.729	-23.288	1.00	18.99		C
ANISOU	1044	CE3	TRP	A	449	2646	1890	2681	125	-335	-3	C

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Figure 18 (continued)

ATOM	1045	CZ3	TRP	A	449	32.565	13.992	-23.531	1.00	20.81		C
ANISOU	1045	CZ3	TRP	A	449	2865	2143	2899	187	-331	10	C
ATOM	1046	CH2	TRP	A	449	33.515	13.972	-22.478	1.00	18.26		C
ANISOU	1046	CH2	TRP	A	449	2554	1793	2591	230	-327	19	C
ATOM	1047	CZ2	TRP	A	449	33.141	13.677	-21.188	1.00	18.76		C
ANISOU	1047	CZ2	TRP	A	449	2659	1805	2663	215	-327	25	C
ATOM	1048	C	TRP	A	449	28.112	10.540	-21.757	1.00	22.76		C
ANISOU	1048	C	TRP	A	449	3285	2175	3186	-114	-275	-87	C
ATOM	1049	O	TRP	A	449	29.253	10.071	-21.571	1.00	24.65		O
ANISOU	1049	O	TRP	A	449	3599	2358	3407	-44	-278	-71	O
ATOM	1050	N	GLY	A	450	27.057	10.056	-21.115	1.00	22.54		N
ANISOU	1050	N	GLY	A	450	3270	2117	3179	-211	-240	-94	N
ATOM	1051	CA	GLY	A	450	27.269	9.021	-20.083	1.00	21.83		C
ANISOU	1051	CA	GLY	A	450	3301	1913	3081	-237	-199	-61	C
ATOM	1052	C	GLY	A	450	26.923	9.581	-18.715	1.00	21.43		C
ANISOU	1052	C	GLY	A	450	3233	1890	3018	-259	-155	-11	C
ATOM	1053	O	GLY	A	450	27.192	10.758	-18.436	1.00	20.21		O
ANISOU	1053	O	GLY	A	450	3005	1815	2860	-202	-167	1	O
ATOM	1054	N	ILE	A	451	26.284	8.751	-17.889	1.00	21.10		N
ANISOU	1054	N	ILE	A	451	3262	1784	2970	-352	-98	14	N
ATOM	1055	CA	ILE	A	451	25.818	9.147	-16.578	1.00	20.69		C
ANISOU	1055	CA	ILE	A	451	3202	1772	2887	-392	-39	54	C
ATOM	1056	CB	ILE	A	451	24.237	9.164	-16.503	1.00	21.84		C
ANISOU	1056	CB	ILE	A	451	3255	1973	3069	-531	24	13	C
ATOM	1057	CG1	ILE	A	451	23.720	10.086	-15.389	1.00	20.59		C
ANISOU	1057	CG1	ILE	A	451	3025	1914	2885	-542	83	19	C
ATOM	1058	CD1	ILE	A	451	23.706	11.556	-15.790	1.00	19.64		C
ANISOU	1058	CD1	ILE	A	451	2765	1897	2800	-456	40	-28	C
ATOM	1059	CG2	ILE	A	451	23.649	7.766	-16.361	1.00	22.44		C
ANISOU	1059	CG2	ILE	A	451	3427	1942	3156	-663	78	26	C
ATOM	1060	C	ILE	A	451	26.458	8.155	-15.621	1.00	22.07		C
ANISOU	1060	C	ILE	A	451	3539	1838	3008	-382	-18	134	C
ATOM	1061	O	ILE	A	451	26.781	7.044	-16.013	1.00	22.36		O
ANISOU	1061	O	ILE	A	451	3682	1753	3060	-385	-30	146	O
ATOM	1062	N	GLU	A	452	26.683	8.553	-14.378	1.00	22.05		N
ANISOU	1062	N	GLU	A	452	3565	1877	2938	-359	8	187	N
ATOM	1063	CA	GLU	A	452	27.397	7.691	-13.451	1.00	23.30		C
ANISOU	1063	CA	GLU	A	452	3882	1946	3025	-326	10	280	C
ATOM	1064	CB	GLU	A	452	28.909	8.005	-13.455	1.00	22.10		C
ANISOU	1064	CB	GLU	A	452	3748	1802	2846	-164	-79	296	C
ATOM	1065	CG	GLU	A	452	29.322	9.401	-12.931	1.00	21.20		C
ANISOU	1065	CG	GLU	A	452	3532	1826	2696	-103	-103	268	C
ATOM	1066	CD	GLU	A	452	30.841	9.593	-12.871	1.00	22.68		C
ANISOU	1066	CD	GLU	A	452	3732	2026	2861	37	-190	281	C
ATOM	1067	OE1	GLU	A	452	31.592	8.596	-12.982	1.00	27.30		O
ANISOU	1067	OE1	GLU	A	452	4414	2519	3440	105	-229	328	O
ATOM	1068	OE2	GLU	A	452	31.303	10.728	-12.689	1.00	23.21		O
ANISOU	1068	OE2	GLU	A	452	3706	2189	2922	81	-220	240	O
ATOM	1069	C	GLU	A	452	26.827	7.884	-12.057	1.00	24.23		C
ANISOU	1069	C	GLU	A	452	4026	2124	3057	-392	85	331	C
ATOM	1070	O	GLU	A	452	26.298	8.943	-11.755	1.00	22.41		O
ANISOU	1070	O	GLU	A	452	3678	2018	2819	-412	115	279	O
ATOM	1071	N	HIS	A	453	26.937	6.859	-11.220	1.00	26.35		N
ANISOU	1071	N	HIS	A	453	4453	2300	3257	-423	117	434	N
ATOM	1072	CA	HIS	A	453	26.636	7.037	-9.814	1.00	29.05		C
ANISOU	1072	CA	HIS	A	453	4843	2716	3480	-466	183	497	C
ATOM	1073	CB	HIS	A	453	26.420	5.688	-9.121	1.00	31.54		C
ANISOU	1073	CB	HIS	A	453	5346	2900	3737	-546	242	627	C
ATOM	1074	CG	HIS	A	453	25.586	5.793	-7.881	1.00	37.83		C
ANISOU	1074	CG	HIS	A	453	6167	3786	4420	-660	356	679	C
ATOM	1075	ND1	HIS	A	453	26.069	5.479	-6.623	1.00	42.46		N
ANISOU	1075	ND1	HIS	A	453	6901	4383	4849	-627	364	804	N
ATOM	1076	CE1	HIS	A	453	25.122	5.697	-5.727	1.00	45.28		C
ANISOU	1076	CE1	HIS	A	453	7243	4847	5115	-752	487	817	C
ATOM	1077	NE2	HIS	A	453	24.054	6.168	-6.351	1.00	44.67		N
ANISOU	1077	NE2	HIS	A	453	6999	4830	5145	-855	557	700	N
ATOM	1078	CD2	HIS	A	453	24.320	6.241	-7.697	1.00	40.72		C
ANISOU	1078	CD2	HIS	A	453	6418	4258	4796	-798	469	618	C
ATOM	1079	C	HIS	A	453	27.767	7.838	-9.144	1.00	28.67		C
ANISOU	1079	C	HIS	A	453	4790	2760	3345	-324	106	504	C
ATOM	1080	O	HIS	A	453	28.940	7.782	-9.559	1.00	28.14		O

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Figure 18 (continued)

ANISOU	1080	O	HIS	A	453	4741	2654	3297	-194	5	509	O
ATOM	1081	N	ILE	A	454	27.423	8.618	-8.132	1.00	29.08		N
ANISOU	1081	N	ILE	A	454	4802	2945	3304	-350	154	488	N
ATOM	1082	CA	ILE	A	454	28.448	9.403	-7.440	1.00	28.83		C
ANISOU	1082	CA	ILE	A	454	4760	3009	3183	-232	78	475	C
ATOM	1083	CB	ILE	A	454	28.400	10.945	-7.822	1.00	27.51		C
ANISOU	1083	CB	ILE	A	454	4412	2956	3086	-201	60	334	C
ATOM	1084	CG1	ILE	A	454	27.220	11.666	-7.174	1.00	27.31		C
ANISOU	1084	CG1	ILE	A	454	4309	3040	3029	-292	168	268	C
ATOM	1085	CD1	ILE	A	454	27.215	13.162	-7.375	1.00	25.56		C
ANISOU	1085	CD1	ILE	A	454	3937	2905	2872	-246	148	138	C
ATOM	1086	CG2	ILE	A	454	28.360	11.131	-9.313	1.00	26.45		C
ANISOU	1086	CG2	ILE	A	454	4180	2762	3106	-186	25	277	C
ATOM	1087	C	ILE	A	454	28.381	9.208	-5.937	1.00	30.68		C
ANISOU	1087	C	ILE	A	454	5104	3314	3238	-258	123	553	C
ATOM	1088	O	ILE	A	454	27.341	8.876	-5.395	1.00	32.05		O
ANISOU	1088	O	ILE	A	454	5312	3505	3359	-381	239	587	O
ATOM	1089	N	ASP	A	455	29.506	9.410	-5.269	1.00	32.23		N
ANISOU	1089	N	ASP	A	455	5348	3565	3333	-144	29	580	N
ATOM	1090	CA	ASP	A	455	29.570	9.458	-3.811	1.00	34.84		C
ANISOU	1090	CA	ASP	A	455	5769	4006	3465	-149	49	635	C
ATOM	1091	CB	ASP	A	455	30.984	9.101	-3.357	1.00	36.54		C
ANISOU	1091	CB	ASP	A	455	6075	4220	3587	-3	-92	712	C
ATOM	1092	CG	ASP	A	455	31.449	7.732	-3.876	1.00	40.61		C
ANISOU	1092	CG	ASP	A	455	6722	4552	4157	51	-140	845	C
ATOM	1093	OD1	ASP	A	455	30.664	6.746	-3.860	1.00	45.61		O
ANISOU	1093	OD1	ASP	A	455	7471	5067	4792	-46	-50	945	O
ATOM	1094	OD2	ASP	A	455	32.617	7.641	-4.302	1.00	44.13		O
ANISOU	1094	OD2	ASP	A	455	7150	4967	4651	190	-265	841	O
ATOM	1095	C	ASP	A	455	29.193	10.845	-3.264	1.00	34.43		C
ANISOU	1095	C	ASP	A	455	5588	4124	3368	-173	89	493	C
ATOM	1096	O	ASP	A	455	29.396	11.863	-3.913	1.00	33.12		O
ANISOU	1096	O	ASP	A	455	5280	3987	3318	-134	49	366	O
ATOM	1097	N	ASN	A	456	28.616	10.872	-2.073	1.00	36.47		N
ANISOU	1097	N	ASN	A	456	5907	4491	3459	-241	178	516	N
ATOM	1098	CA	ASN	A	456	28.410	12.114	-1.357	1.00	36.78		C
ANISOU	1098	CA	ASN	A	456	5852	4697	3426	-245	209	376	C
ATOM	1099	CB	ASN	A	456	27.498	11.878	-0.155	1.00	38.76		C
ANISOU	1099	CB	ASN	A	456	6179	5058	3489	-349	349	415	C
ATOM	1100	CG	ASN	A	456	26.107	11.425	-0.555	1.00	39.81		C
ANISOU	1100	CG	ASN	A	456	6277	5142	3709	-491	505	433	C
ATOM	1101	OD1	ASN	A	456	25.486	11.995	-1.468	1.00	37.31		O
ANISOU	1101	OD1	ASN	A	456	5803	4798	3573	-513	535	321	O
ATOM	1102	ND2	ASN	A	456	25.598	10.397	0.136	1.00	39.68		N
ANISOU	1102	ND2	ASN	A	456	6402	5117	3558	-591	604	578	N
ATOM	1103	C	ASN	A	456	29.751	12.683	-0.903	1.00	36.67		C
ANISOU	1103	C	ASN	A	456	5840	4760	3333	-121	63	333	C
ATOM	1104	O	ASN	A	456	30.413	12.110	-0.036	1.00	37.97		O
ANISOU	1104	O	ASN	A	456	6134	4970	3323	-74	2	435	O
ATOM	1105	N	VAL	A	457	30.161	13.779	-1.535	1.00	35.06		N
ANISOU	1105	N	VAL	A	457	5490	4565	3266	-71	2	190	N
ATOM	1106	CA	VAL	A	457	31.320	14.556	-1.101	1.00	34.96		C
ANISOU	1106	CA	VAL	A	457	5441	4642	3201	18	-121	106	C
ATOM	1107	CB	VAL	A	457	32.418	14.572	-2.196	1.00	33.72		C
ANISOU	1107	CB	VAL	A	457	5219	4392	3202	106	-247	107	C
ATOM	1108	CG1	VAL	A	457	33.621	15.370	-1.740	1.00	33.63		C
ANISOU	1108	CG1	VAL	A	457	5151	4481	3146	179	-372	14	C
ATOM	1109	CG2	VAL	A	457	32.816	13.127	-2.554	1.00	35.71		C
ANISOU	1109	CG2	VAL	A	457	5589	4533	3446	151	-290	281	C
ATOM	1110	C	VAL	A	457	30.848	15.978	-0.779	1.00	34.15		C
ANISOU	1110	C	VAL	A	457	5219	4633	3121	-16	-68	-85	C
ATOM	1111	O	VAL	A	457	30.251	16.622	-1.639	1.00	32.78		O
ANISOU	1111	O	VAL	A	457	4932	4395	3126	-42	-17	-167	O
ATOM	1112	N	MSE	A	458	31.088	16.452	0.451	1.00	35.25		N
ANISOU	1112	N	MSE	A	458	5390	4923	3079	-11	-81	-157	N
ATOM	1113	CA	MSE	A	458	30.699	17.815	0.846	1.00	34.91		C
ANISOU	1113	CA	MSE	A	458	5246	4964	3055	-34	-32	-361	C
ATOM	1114	CB	MSE	A	458	30.871	18.047	2.353	1.00	37.58		C
ANISOU	1114	CB	MSE	A	458	5655	5487	3136	-39	-33	-424	C
ATOM	1115	CG	MSE	A	458	30.252	19.378	2.825	1.00	36.62		C
ANISOU	1115	CG	MSE	A	458	5440	5445	3030	-71	49	-651	C

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Figure 18 (continued)

ATOM	1116	SE	MSE A 458	30.457	19.706	4.676	0.90	40.81	SE
ANISOU	1116	SE	MSE A 458	6058	6227	3221	-80	51	SE
ATOM	1117	CE	MSE A 458	29.473	21.279	4.926	1.00	43.27	C
ANISOU	1117	CE	MSE A 458	6238	6576	3626	-113	185	C
ATOM	1118	C	MSE A 458	31.466	18.877	0.071	1.00	33.44	C
ANISOU	1118	C	MSE A 458	4933	4714	3057	13	-127	C
ATOM	1119	O	MSE A 458	32.657	18.724	-0.155	1.00	34.08	O
ANISOU	1119	O	MSE A 458	5016	4783	3152	71	-259	O
ATOM	1120	N	GLY A 459	30.783	19.943	-0.342	1.00	32.49	N
ANISOU	1120	N	GLY A 459	4703	4553	3090	-12	-57	N
ATOM	1121	CA	GLY A 459	31.402	21.007	-1.139	1.00	31.36	C
ANISOU	1121	CA	GLY A 459	4449	4324	3141	18	-129	C
ATOM	1122	C	GLY A 459	31.266	20.849	-2.641	1.00	30.19	C
ANISOU	1122	C	GLY A 459	4243	4025	3204	28	-132	C
ATOM	1123	O	GLY A 459	31.810	21.635	-3.395	1.00	28.91	O
ANISOU	1123	O	GLY A 459	4001	3786	3198	47	-186	O
ATOM	1124	N	MSE A 460	30.504	19.844	-3.079	1.00	30.67	N
ANISOU	1124	N	MSE A 460	4344	4046	3265	4	-68	N
ATOM	1125	CA	MSE A 460	30.479	19.418	-4.475	1.00	30.71	C
ANISOU	1125	CA	MSE A 460	4316	3927	3427	14	-86	C
ATOM	1126	CB	MSE A 460	31.612	18.422	-4.661	1.00	30.18	C
ANISOU	1126	CB	MSE A 460	4321	3842	3305	58	-185	C
ATOM	1127	CG	MSE A 460	32.091	18.176	-6.021	1.00	31.46	C
ANISOU	1127	CG	MSE A 460	4442	3899	3611	88	-234	C
ATOM	1128	SE	MSE A 460	33.476	16.771	-5.852	0.90	37.35	SE
ANISOU	1128	SE	MSE A 460	5293	4649	4248	165	-348	SE
ATOM	1129	CE	MSE A 460	34.825	17.837	-4.917	1.00	35.43	C
ANISOU	1129	CE	MSE A 460	4991	4531	3939	209	-461	C
ATOM	1130	C	MSE A 460	29.152	18.715	-4.753	1.00	28.46	C
ANISOU	1130	C	MSE A 460	4042	3618	3154	-41	24	C
ATOM	1131	O	MSE A 460	28.575	18.079	-3.850	1.00	28.50	O
ANISOU	1131	O	MSE A 460	4120	3694	3015	-88	97	O
ATOM	1132	N	VAL A 461	28.671	18.840	-5.989	1.00	25.91	N
ANISOU	1132	N	VAL A 461	3643	3204	2995	-44	34	N
ATOM	1133	CA	VAL A 461	27.446	18.159	-6.436	1.00	25.77	C
ANISOU	1133	CA	VAL A 461	3614	3165	3014	-103	121	C
ATOM	1134	CB	VAL A 461	26.129	19.057	-6.389	1.00	26.21	C
ANISOU	1134	CB	VAL A 461	3552	3258	3149	-125	217	C
ATOM	1135	CG1	VAL A 461	25.667	19.320	-4.974	1.00	28.85	C
ANISOU	1135	CG1	VAL A 461	3904	3710	3347	-154	306	C
ATOM	1136	CG2	VAL A 461	26.293	20.405	-7.139	1.00	25.60	C
ANISOU	1136	CG2	VAL A 461	3368	3122	3236	-60	167	C
ATOM	1137	C	VAL A 461	27.621	17.605	-7.849	1.00	24.27	C
ANISOU	1137	C	VAL A 461	3411	2873	2939	-92	69	C
ATOM	1138	O	VAL A 461	28.436	18.099	-8.633	1.00	22.83	O
ANISOU	1138	O	VAL A 461	3191	2640	2843	-37	-10	O
ATOM	1139	N	GLY A 462	26.837	16.583	-8.174	1.00	23.87	N
ANISOU	1139	N	GLY A 462	3388	2795	2886	-154	122	N
ATOM	1140	CA	GLY A 462	26.661	16.169	-9.564	1.00	21.99	C
ANISOU	1140	CA	GLY A 462	3116	2478	2763	-158	90	C
ATOM	1141	C	GLY A 462	25.731	17.096	-10.366	1.00	21.21	C
ANISOU	1141	C	GLY A 462	2876	2387	2797	-156	109	C
ATOM	1142	O	GLY A 462	25.023	17.917	-9.803	1.00	21.23	O
ANISOU	1142	O	GLY A 462	2805	2448	2813	-158	166	O
ATOM	1143	N	VAL A 463	25.746	16.937	-11.686	1.00	19.62	N
ANISOU	1143	N	VAL A 463	2639	2130	2686	-142	58	N
ATOM	1144	CA	VAL A 463	24.947	17.731	-12.581	1.00	19.75	C
ANISOU	1144	CA	VAL A 463	2533	2153	2820	-125	52	C
ATOM	1145	CB	VAL A 463	25.767	18.971	-13.157	1.00	19.50	C
ANISOU	1145	CB	VAL A 463	2461	2085	2865	-37	-19	C
ATOM	1146	CG1	VAL A 463	26.906	18.526	-14.079	1.00	18.45	C
ANISOU	1146	CG1	VAL A 463	2382	1899	2729	-11	-93	C
ATOM	1147	CG2	VAL A 463	24.903	19.884	-13.892	1.00	20.87	C
ANISOU	1147	CG2	VAL A 463	2520	2259	3151	-5	-26	C
ATOM	1148	C	VAL A 463	24.402	16.803	-13.675	1.00	19.21	C
ANISOU	1148	C	VAL A 463	2454	2061	2785	-173	38	C
ATOM	1149	O	VAL A 463	25.117	15.975	-14.245	1.00	17.34	O
ANISOU	1149	O	VAL A 463	2295	1770	2523	-173	-6	O
ATOM	1150	N	LEU A 464	23.113	16.938	-13.952	1.00	20.10	N
ANISOU	1150	N	LEU A 464	2460	2221	2955	-211	75	N
ATOM	1151	CA	LEU A 464	22.451	16.147	-14.993	1.00	20.06	C

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Figure 18 (continued)

ANISOU	1151	CA	LEU	A	464	2423	2214	2986	-267	55	-179	C
ATOM	1152	CB	LEU	A	464	20.978	15.896	-14.611	1.00	20.50		C
ANISOU	1152	CB	LEU	A	464	2379	2345	3065	-356	136	-228	C
ATOM	1153	CG	LEU	A	464	20.640	15.224	-13.271	1.00	20.46		C
ANISOU	1153	CG	LEU	A	464	2432	2366	2978	-451	249	-224	C
ATOM	1154	CD1	LEU	A	464	19.137	15.006	-13.119	1.00	21.72		C
ANISOU	1154	CD1	LEU	A	464	2461	2614	3178	-551	334	-280	C
ATOM	1155	CD2	LEU	A	464	21.359	13.932	-13.071	1.00	18.35		C
ANISOU	1155	CD2	LEU	A	464	2330	2012	2629	-510	252	-143	C
ATOM	1156	C	LEU	A	464	22.547	16.908	-16.326	1.00	19.95		C
ANISOU	1156	C	LEU	A	464	2335	2196	3048	-190	-34	-178	C
ATOM	1157	O	LEU	A	464	22.865	18.083	-16.323	1.00	19.98		O
ANISOU	1157	O	LEU	A	464	2302	2195	3096	-107	-60	-189	O
ATOM	1158	N	PRO	A	465	22.308	16.229	-17.470	1.00	20.59		N
ANISOU	1158	N	PRO	A	465	2409	2275	3140	-222	-82	-163	N
ATOM	1159	CA	PRO	A	465	22.309	16.897	-18.783	1.00	21.07		C
ANISOU	1159	CA	PRO	A	465	2405	2352	3247	-154	-167	-151	C
ATOM	1160	CB	PRO	A	465	21.839	15.803	-19.740	1.00	21.49		C
ANISOU	1160	CB	PRO	A	465	2459	2425	3283	-226	-198	-161	C
ATOM	1161	CG	PRO	A	465	22.268	14.552	-19.122	1.00	20.52		C
ANISOU	1161	CG	PRO	A	465	2456	2236	3104	-304	-147	-152	C
ATOM	1162	CD	PRO	A	465	22.139	14.772	-17.616	1.00	21.10		C
ANISOU	1162	CD	PRO	A	465	2542	2310	3163	-323	-62	-154	C
ATOM	1163	C	PRO	A	465	21.445	18.147	-18.919	1.00	22.58		C
ANISOU	1163	C	PRO	A	465	2460	2598	3522	-89	-184	-180	C
ATOM	1164	O	PRO	A	465	21.848	19.088	-19.645	1.00	22.93		O
ANISOU	1164	O	PRO	A	465	2489	2623	3600	-1	-247	-143	O
ATOM	1165	N	ASP	A	466	20.288	18.182	-18.246	1.00	23.41		N
ANISOU	1165	N	ASP	A	466	2467	2765	3663	-127	-125	-240	N
ATOM	1166	CA	ASP	A	466	19.484	19.423	-18.181	1.00	24.48		C
ANISOU	1166	CA	ASP	A	466	2467	2944	3890	-41	-132	-280	C
ATOM	1167	CB	ASP	A	466	17.987	19.137	-17.935	1.00	25.77		C
ANISOU	1167	CB	ASP	A	466	2481	3214	4096	-97	-86	-353	C
ATOM	1168	CG	ASP	A	466	17.711	18.432	-16.596	1.00	27.78		C
ANISOU	1168	CG	ASP	A	466	2762	3494	4300	-205	43	-396	C
ATOM	1169	OD1	ASP	A	466	18.616	18.350	-15.739	1.00	29.82		O
ANISOU	1169	OD1	ASP	A	466	3148	3692	4490	-212	88	-374	O
ATOM	1170	OD2	ASP	A	466	16.564	17.962	-16.383	1.00	29.01		O
ANISOU	1170	OD2	ASP	A	466	2805	3739	4477	-288	100	-451	O
ATOM	1171	C	ASP	A	466	20.026	20.476	-17.185	1.00	24.43		C
ANISOU	1171	C	ASP	A	466	2490	2886	3906	30	-90	-302	C
ATOM	1172	O	ASP	A	466	19.377	21.498	-16.948	1.00	24.93		O
ANISOU	1172	O	ASP	A	466	2453	2967	4054	106	-80	-352	O
ATOM	1173	N	MSE	A	467	21.206	20.210	-16.610	1.00	24.00		N
ANISOU	1173	N	MSE	A	467	2568	2770	3780	9	-70	-275	N
ATOM	1174	CA	MSE	A	467	21.905	21.152	-15.710	1.00	24.32		C
ANISOU	1174	CA	MSE	A	467	2648	2764	3829	63	-45	-305	C
ATOM	1175	CB	MSE	A	467	22.058	22.557	-16.331	1.00	24.10		C
ANISOU	1175	CB	MSE	A	467	2574	2675	3907	171	-105	-297	C
ATOM	1176	CG	MSE	A	467	23.071	22.602	-17.472	1.00	23.28		C
ANISOU	1176	CG	MSE	A	467	2537	2512	3797	191	-185	-203	C
ATOM	1177	SE	MSE	A	467	24.823	21.862	-16.977	0.90	26.00		SE
ANISOU	1177	SE	MSE	A	467	3030	2817	4031	137	-179	-170	SE
ATOM	1178	CE	MSE	A	467	25.294	23.125	-15.564	1.00	22.62		C
ANISOU	1178	CE	MSE	A	467	2609	2344	3643	172	-138	-259	C
ATOM	1179	C	MSE	A	467	21.320	21.226	-14.313	1.00	25.38		C
ANISOU	1179	C	MSE	A	467	2754	2951	3936	34	55	-390	C
ATOM	1180	O	MSE	A	467	21.736	22.059	-13.507	1.00	26.95		O
ANISOU	1180	O	MSE	A	467	2972	3126	4141	78	79	-444	O
ATOM	1181	N	THR	A	468	20.388	20.320	-14.021	1.00	25.59		N
ANISOU	1181	N	THR	A	468	2740	3056	3927	-51	119	-408	N
ATOM	1182	CA	THR	A	468	19.830	20.146	-12.684	1.00	25.97		C
ANISOU	1182	CA	THR	A	468	2773	3176	3917	-106	235	-475	C
ATOM	1183	CB	THR	A	468	18.559	19.255	-12.705	1.00	27.06		C
ANISOU	1183	CB	THR	A	468	2822	3405	4054	-209	304	-491	C
ATOM	1184	OG1	THR	A	468	17.500	19.937	-13.395	1.00	30.40		O
ANISOU	1184	OG1	THR	A	468	3070	3880	4602	-149	278	-546	O
ATOM	1185	CG2	THR	A	468	18.066	18.937	-11.284	1.00	30.00		C
ANISOU	1185	CG2	THR	A	468	3200	3861	4340	-288	444	-541	C
ATOM	1186	C	THR	A	468	20.882	19.520	-11.783	1.00	24.91		C
ANISOU	1186	C	THR	A	468	2799	3016	3650	-153	260	-435	C

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Figure 18 (continued)

ATOM	1187	O	THR A 468	21.500	18.510	-12.160	1.00	23.50	
ANISOU	1187	O	THR A 468	2721	2793	3415	-201	223	-351
ATOM	1188	N	PRO A 469	21.109	20.120	-10.592	1.00	25.19	
ANISOU	1188	N	PRO A 469	2858	3082	3631	-131	315	-501
ATOM	1189	CA	PRO A 469	22.089	19.534	-9.669	1.00	24.77	
ANISOU	1189	CA	PRO A 469	2952	3026	3434	-167	326	-461
ATOM	1190	CB	PRO A 469	22.210	20.588	-8.551	1.00	24.83	
ANISOU	1190	CB	PRO A 469	2946	3078	3409	-120	369	-571
ATOM	1191	CG	PRO A 469	20.960	21.302	-8.583	1.00	26.70	
ANISOU	1191	CG	PRO A 469	3035	3365	3743	-94	434	-668
ATOM	1192	CD	PRO A 469	20.505	21.340	-10.031	1.00	25.78	
ANISOU	1192	CD	PRO A 469	2830	3197	3768	-64	364	-622
ATOM	1193	C	PRO A 469	21.549	18.221	-9.098	1.00	25.27	
ANISOU	1193	C	PRO A 469	3071	3142	3390	-285	412	-407
ATOM	1194	O	PRO A 469	20.345	18.033	-8.949	1.00	25.16	
ANISOU	1194	O	PRO A 469	2965	3199	3396	-348	501	-444
ATOM	1195	N	SER A 470	22.455	17.313	-8.793	1.00	24.98	
ANISOU	1195	N	SER A 470	3182	3064	3245	-314	385	-316
ATOM	1196	CA	SER A 470	22.073	16.051	-8.215	1.00	25.82	
ANISOU	1196	CA	SER A 470	3375	3189	3248	-425	463	-243
ATOM	1197	CB	SER A 470	21.885	14.999	-9.301	1.00	25.56	
ANISOU	1197	CB	SER A 470	3359	3073	3278	-482	430	-169
ATOM	1198	OG	SER A 470	21.558	13.741	-8.711	1.00	26.57	
ANISOU	1198	OG	SER A 470	3590	3189	3315	-600	509	-90
ATOM	1199	C	SER A 470	23.142	15.585	-7.255	1.00	25.97	
ANISOU	1199	C	SER A 470	3556	3199	3112	-413	444	-175
ATOM	1200	O	SER A 470	24.333	15.726	-7.510	1.00	24.16	
ANISOU	1200	O	SER A 470	3385	2915	2880	-333	339	-148
ATOM	1201	N	THR A 471	22.695	15.018	-6.149	1.00	27.91	
ANISOU	1201	N	THR A 471	3869	3513	3224	-495	547	-143
ATOM	1202	CA	THR A 471	23.597	14.451	-5.161	1.00	29.38	
ANISOU	1202	CA	THR A 471	4221	3704	3238	-487	529	-57
ATOM	1203	CB	THR A 471	23.171	14.821	-3.704	1.00	30.73	
ANISOU	1203	CB	THR A 471	4408	4020	3246	-523	638	-106
ATOM	1204	OG1	THR A 471	21.791	14.497	-3.513	1.00	33.75	
ANISOU	1204	OG1	THR A 471	4724	4465	3636	-644	787	-120
ATOM	1205	CG2	THR A 471	23.366	16.340	-3.446	1.00	32.23	
ANISOU	1205	CG2	THR A 471	4493	4284	3469	-432	612	-268
ATOM	1206	C	THR A 471	23.718	12.925	-5.361	1.00	29.30	
ANISOU	1206	C	THR A 471	4350	3591	3193	-555	530	94
ATOM	1207	O	THR A 471	24.416	12.246	-4.615	1.00	30.80	
ANISOU	1207	O	THR A 471	4695	3763	3244	-545	509	197
ATOM	1208	N	GLU A 472	23.057	12.397	-6.388	1.00	28.16	
ANISOU	1208	N	GLU A 472	4152	3371	3176	-619	544	105
ATOM	1209	CA	GLU A 472	22.982	10.945	-6.598	1.00	28.80	
ANISOU	1209	CA	GLU A 472	4360	3336	3246	-706	563	226
ATOM	1210	CB	GLU A 472	21.524	10.456	-6.513	1.00	30.19	
ANISOU	1210	CB	GLU A 472	4475	3546	3451	-873	704	218
ATOM	1211	CG	GLU A 472	20.831	10.674	-5.152	1.00	34.77	
ANISOU	1211	CG	GLU A 472	5053	4266	3892	-953	848	212
ATOM	1212	CD	GLU A 472	19.477	11.392	-5.276	1.00	40.82	
ANISOU	1212	CD	GLU A 472	5606	5160	4744	-1019	952	79
ATOM	1213	OE1	GLU A 472	18.438	10.760	-5.008	1.00	43.43	
ANISOU	1213	OE1	GLU A 472	5909	5526	5067	-1176	1085	99
ATOM	1214	OE2	GLU A 472	19.441	12.599	-5.641	1.00	42.85	
ANISOU	1214	OE2	GLU A 472	5717	5482	5083	-914	904	-45
ATOM	1215	C	GLU A 472	23.616	10.535	-7.934	1.00	26.87	
ANISOU	1215	C	GLU A 472	4128	2959	3124	-647	448	242
ATOM	1216	O	GLU A 472	24.293	9.534	-8.021	1.00	26.79	
ANISOU	1216	O	GLU A 472	4261	2832	3087	-633	404	339
ATOM	1217	N	MSE A 473	23.414	11.334	-8.971	1.00	25.30	
ANISOU	1217	N	MSE A 473	3780	2780	3052	-603	399	145
ATOM	1218	CA	MSE A 473	23.895	10.993	-10.300	1.00	23.42	
ANISOU	1218	CA	MSE A 473	3540	2442	2915	-559	305	147
ATOM	1219	CB	MSE A 473	22.729	10.564	-11.227	1.00	24.39	
ANISOU	1219	CB	MSE A 473	3575	2550	3143	-667	341	105
ATOM	1220	CG	MSE A 473	21.879	9.393	-10.755	1.00	22.32	
ANISOU	1220	CG	MSE A 473	3383	2245	2854	-828	445	157
ATOM	1221	SE	MSE A 473	22.758	7.582	-10.747	0.90	27.95	SE
ANISOU	1221	SE	MSE A 473	4356	2738	3528	-855	419	296
ATOM	1222	CE	MSE A 473	23.101	7.399	-12.636	1.00	20.44	

Figure 18 (continued)

ANISOU	1222	CE	MSE	A	473	3347	1704	2713	-798	301	216	C
ATOM	1223	C	MSE	A	473	24.575	12.199	-10.916	1.00	22.43		C
ANISOU	1223	C	MSE	A	473	3320	2354	2848	-433	214	81	C
ATOM	1224	O	MSE	A	473	24.300	13.376	-10.550	1.00	22.03		O
ANISOU	1224	O	MSE	A	473	3168	2395	2807	-401	232	9	O
ATOM	1225	N	SER	A	474	25.430	11.929	-11.891	1.00	20.89		N
ANISOU	1225	N	SER	A	474	3156	2083	2699	-366	125	99	N
ATOM	1226	CA	SER	A	474	26.072	13.028	-12.627	1.00	19.23		C
ANISOU	1226	CA	SER	A	474	2857	1900	2551	-266	47	49	C
ATOM	1227	CB	SER	A	474	27.291	13.535	-11.840	1.00	18.96		C
ANISOU	1227	CB	SER	A	474	2868	1886	2448	-177	2	61	C
ATOM	1228	OG	SER	A	474	27.784	14.746	-12.377	1.00	16.50		O
ANISOU	1228	OG	SER	A	474	2462	1603	2203	-107	-50	7	O
ATOM	1229	C	SER	A	474	26.509	12.576	-14.024	1.00	18.90		C
ANISOU	1229	C	SER	A	474	2818	1792	2572	-236	-19	56	C
ATOM	1230	O	SER	A	474	26.803	11.396	-14.234	1.00	17.99		O
ANISOU	1230	O	SER	A	474	2805	1592	2438	-253	-27	99	O
ATOM	1231	N	MSE	A	475	26.581	13.518	-14.969	1.00	18.62		N
ANISOU	1231	N	MSE	A	475	2681	1790	2605	-186	-65	13	N
ATOM	1232	CA	MSE	A	475	27.294	13.281	-16.212	1.00	19.11		C
ANISOU	1232	CA	MSE	A	475	2751	1815	2697	-138	-129	20	C
ATOM	1233	CB	MSE	A	475	27.395	14.576	-17.035	1.00	19.24		C
ANISOU	1233	CB	MSE	A	475	2658	1880	2771	-84	-169	-7	C
ATOM	1234	CG	MSE	A	475	26.060	14.982	-17.637	1.00	19.93		C
ANISOU	1234	CG	MSE	A	475	2644	2015	2915	-127	-159	-41	C
ATOM	1235	SE	MSE	A	475	26.115	16.409	-18.957	0.90	21.44		SE
ANISOU	1235	SE	MSE	A	475	2727	2246	3173	-52	-225	-41	SE
ATOM	1236	CE	MSE	A	475	26.632	17.884	-17.856	1.00	18.53		C
ANISOU	1236	CE	MSE	A	475	2330	1873	2838	6	-208	-53	C
ATOM	1237	C	MSE	A	475	28.676	12.781	-15.867	1.00	18.97		C
ANISOU	1237	C	MSE	A	475	2830	1750	2629	-68	-163	61	C
ATOM	1238	O	MSE	A	475	29.338	13.335	-14.995	1.00	18.37		O
ANISOU	1238	O	MSE	A	475	2759	1703	2518	-23	-174	68	O
ATOM	1239	N	ARG	A	476	29.102	11.717	-16.541	1.00	19.82		N
ANISOU	1239	N	ARG	A	476	3007	1787	2736	-55	-185	76	N
ATOM	1240	CA	ARG	A	476	30.380	11.052	-16.273	1.00	20.30		C
ANISOU	1240	CA	ARG	A	476	3158	1796	2760	27	-221	112	C
ATOM	1241	CB	ARG	A	476	30.630	10.005	-17.344	1.00	20.86		C
ANISOU	1241	CB	ARG	A	476	3281	1790	2855	42	-238	98	C
ATOM	1242	CG	ARG	A	476	32.003	9.337	-17.254	1.00	24.78		C
ANISOU	1242	CG	ARG	A	476	3849	2233	3333	153	-279	122	C
ATOM	1243	CD	ARG	A	476	32.373	8.494	-18.498	1.00	24.21		C
ANISOU	1243	CD	ARG	A	476	3807	2100	3292	190	-293	77	C
ATOM	1244	NE	ARG	A	476	31.927	9.009	-19.813	1.00	28.63		N
ANISOU	1244	NE	ARG	A	476	4278	2724	3877	152	-291	14	N
ATOM	1245	CZ	ARG	A	476	32.680	9.734	-20.648	1.00	28.25		C
ANISOU	1245	CZ	ARG	A	476	4147	2758	3829	211	-311	-11	C
ATOM	1246	NH1	ARG	A	476	33.921	10.119	-20.292	1.00	26.44		N
ANISOU	1246	NH1	ARG	A	476	3889	2565	3593	303	-333	8	N
ATOM	1247	NH2	ARG	A	476	32.181	10.089	-21.830	1.00	24.34		N
ANISOU	1247	NH2	ARG	A	476	3593	2320	3336	173	-310	-52	N
ATOM	1248	C	ARG	A	476	31.621	11.984	-16.096	1.00	19.03		C
ANISOU	1248	C	ARG	A	476	2942	1696	2591	121	-269	108	C
ATOM	1249	O	ARG	A	476	32.010	12.709	-17.012	1.00	16.62		O
ANISOU	1249	O	ARG	A	476	2556	1432	2328	149	-291	79	O
ATOM	1250	N	GLY	A	477	32.221	11.942	-14.899	1.00	18.74		N
ANISOU	1250	N	GLY	A	477	2952	1671	2495	159	-285	140	N
ATOM	1251	CA	GLY	A	477	33.429	12.703	-14.578	1.00	17.97		C
ANISOU	1251	CA	GLY	A	477	2803	1637	2389	236	-337	126	C
ATOM	1252	C	GLY	A	477	33.226	14.205	-14.333	1.00	17.20		C
ANISOU	1252	C	GLY	A	477	2603	1614	2317	207	-329	77	C
ATOM	1253	O	GLY	A	477	34.210	14.931	-14.151	1.00	15.87		O
ANISOU	1253	O	GLY	A	477	2380	1495	2157	250	-370	52	O
ATOM	1254	N	ILE	A	478	31.964	14.675	-14.355	1.00	16.13		N
ANISOU	1254	N	ILE	A	478	2436	1485	2208	135	-277	56	N
ATOM	1255	CA	ILE	A	478	31.645	16.097	-14.197	1.00	15.15		C
ANISOU	1255	CA	ILE	A	478	2221	1406	2129	118	-266	4	C
ATOM	1256	CB	ILE	A	478	30.602	16.635	-15.259	1.00	15.06		C
ANISOU	1256	CB	ILE	A	478	2137	1385	2200	83	-240	-12	C
ATOM	1257	CG1	ILE	A	478	30.870	16.165	-16.718	1.00	12.67		C
ANISOU	1257	CG1	ILE	A	478	1829	1058	1927	99	-266	15	C

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Figure 18 (continued)

ATOM	1258	CD1	ILE	A	478	32.254	16.479	-17.326	1.00	8.92		C
ANISOU	1258	CD1	ILE	A	478	1332	591	1465	154	-306	24	C
ATOM	1259	CG2	ILE	A	478	30.433	18.171	-15.129	1.00	15.73		C
ANISOU	1259	CG2	ILE	A	478	2137	1489	2350	90	-237	-59	C
ATOM	1260	C	ILE	A	478	31.087	16.390	-12.800	1.00	16.26		C
ANISOU	1260	C	ILE	A	478	2381	1587	2209	87	-228	-24	C
ATOM	1261	O	ILE	A	478	30.163	15.703	-12.334	1.00	16.78		O
ANISOU	1261	O	ILE	A	478	2496	1650	2231	35	-175	-4	O
ATOM	1262	N	ARG	A	479	31.657	17.401	-12.128	1.00	16.30		N
ANISOU	1262	N	ARG	A	479	2348	1635	2210	108	-251	-77	N
ATOM	1263	CA	ARG	A	479	31.158	17.854	-10.825	1.00	16.29		C
ANISOU	1263	CA	ARG	A	479	2357	1689	2145	82	-213	-129	C
ATOM	1264	CB	ARG	A	479	32.041	17.347	-9.667	1.00	17.20		C
ANISOU	1264	CB	ARG	A	479	2549	1855	2130	110	-254	-112	C
ATOM	1265	CG	ARG	A	479	32.242	15.837	-9.578	1.00	17.87		C
ANISOU	1265	CG	ARG	A	479	2744	1910	2135	125	-266	-8	C
ATOM	1266	CD	ARG	A	479	30.940	15.106	-9.170	1.00	19.88		C
ANISOU	1266	CD	ARG	A	479	3064	2151	2338	51	-176	33	C
ATOM	1267	NE	ARG	A	479	31.198	13.695	-8.923	1.00	22.90		N
ANISOU	1267	NE	ARG	A	479	3575	2483	2644	61	-187	138	N
ATOM	1268	CZ	ARG	A	479	31.224	12.743	-9.866	1.00	24.84		C
ANISOU	1268	CZ	ARG	A	479	3860	2631	2948	66	-195	193	C
ATOM	1269	NH1	ARG	A	479	30.991	13.014	-11.161	1.00	21.80		N
ANISOU	1269	NH1	ARG	A	479	3392	2208	2681	57	-195	153	N
ATOM	1270	NH2	ARG	A	479	31.452	11.491	-9.507	1.00	27.04		N
ANISOU	1270	NH2	ARG	A	479	4270	2843	3162	80	-203	287	N
ATOM	1271	C	ARG	A	479	31.081	19.369	-10.792	1.00	16.55		C
ANISOU	1271	C	ARG	A	479	2300	1729	2259	85	-209	-222	C
ATOM	1272	O	ARG	A	479	31.858	20.053	-11.462	1.00	16.48		O
ANISOU	1272	O	ARG	A	479	2240	1691	2330	108	-255	-234	O
ATOM	1273	N	VAL	A	480	30.163	19.894	-9.992	1.00	17.45		N
ANISOU	1273	N	VAL	A	480	2396	1878	2356	59	-149	-289	N
ATOM	1274	CA	VAL	A	480	30.056	21.335	-9.776	1.00	17.94		C
ANISOU	1274	CA	VAL	A	480	2387	1932	2497	69	-142	-394	C
ATOM	1275	CB	VAL	A	480	28.637	21.841	-10.120	1.00	17.22		C
ANISOU	1275	CB	VAL	A	480	2229	1821	2494	62	-74	-429	C
ATOM	1276	CG1	VAL	A	480	28.491	23.277	-9.739	1.00	18.86		C
ANISOU	1276	CG1	VAL	A	480	2378	2004	2783	87	-61	-546	C
ATOM	1277	CG2	VAL	A	480	28.341	21.649	-11.590	1.00	16.12		C
ANISOU	1277	CG2	VAL	A	480	2051	1622	2451	72	-96	-352	C
ATOM	1278	C	VAL	A	480	30.431	21.686	-8.330	1.00	19.46		C
ANISOU	1278	C	VAL	A	480	2611	2200	2583	64	-140	-483	C
ATOM	1279	O	VAL	A	480	29.897	21.106	-7.379	1.00	20.11		O
ANISOU	1279	O	VAL	A	480	2745	2355	2539	41	-90	-485	O
ATOM	1280	N	SER	A	481	31.353	22.635	-8.168	1.00	20.47		N
ANISOU	1280	N	SER	A	481	2707	2315	2754	77	-194	-558	N
ATOM	1281	CA	SER	A	481	31.759	23.081	-6.858	1.00	22.30		C
ANISOU	1281	CA	SER	A	481	2960	2626	2887	70	-207	-666	C
ATOM	1282	CB	SER	A	481	33.078	23.835	-6.956	1.00	22.36		C
ANISOU	1282	CB	SER	A	481	2929	2614	2953	72	-292	-723	C
ATOM	1283	OG	SER	A	481	33.419	24.393	-5.699	1.00	24.36		O
ANISOU	1283	OG	SER	A	481	3192	2948	3117	58	-312	-855	O
ATOM	1284	C	SER	A	481	30.670	23.933	-6.189	1.00	24.56		C
ANISOU	1284	C	SER	A	481	3218	2926	3189	60	-123	-791	C
ATOM	1285	O	SER	A	481	30.019	24.767	-6.836	1.00	23.76		O
ANISOU	1285	O	SER	A	481	3052	2737	3240	74	-89	-829	O
ATOM	1286	N	LYS	A	482	30.448	23.692	-4.903	1.00	27.48		N
ANISOU	1286	N	LYS	A	482	3637	3408	3395	45	-89	-850	N
ATOM	1287	CA	LYS	A	482	29.583	24.554	-4.094	1.00	31.02		C
ANISOU	1287	CA	LYS	A	482	4056	3893	3836	41	-6	-1002	C
ATOM	1288	CB	LYS	A	482	28.838	23.725	-3.047	1.00	32.27		C
ANISOU	1288	CB	LYS	A	482	4275	4186	3798	12	78	-988	C
ATOM	1289	CG	LYS	A	482	27.735	22.854	-3.618	1.00	32.74		C
ANISOU	1289	CG	LYS	A	482	4325	4232	3881	-11	159	-873	C
ATOM	1290	CD	LYS	A	482	27.113	22.055	-2.499	1.00	40.38		C
ANISOU	1290	CD	LYS	A	482	5361	5334	4646	-60	252	-853	C
ATOM	1291	CE	LYS	A	482	25.586	22.137	-2.501	1.00	43.54		C
ANISOU	1291	CE	LYS	A	482	5686	5766	5094	-88	391	-897	C
ATOM	1292	NZ	LYS	A	482	25.001	21.133	-1.548	1.00	47.71		N
ANISOU	1292	NZ	LYS	A	482	6289	6419	5421	-161	493	-835	N
ATOM	1293	C	LYS	A	482	30.357	25.666	-3.391	1.00	33.07		C

Figure 18 (continued)

ANISOU	1293	C	LYS	A	482	4304	4164	4099	42	-55	-1167	C
ATOM	1294	O	LYS	A	482	29.775	26.460	-2.686	1.00	34.72		O
ANISOU	1294	O	LYS	A	482	4492	4396	4304	45	7	-1320	O
ATOM	1295	N	MSE	A	483	31.670	25.718	-3.556	1.00	34.66		N
ANISOU	1295	N	MSE	A	483	4509	4352	4306	37	-163	-1151	N
ATOM	1296	CA	MSE	A	483	32.448	26.793	-2.918	1.00	37.65		C
ANISOU	1296	CA	MSE	A	483	4866	4739	4700	19	-216	-1322	C
ATOM	1297	CB	MSE	A	483	33.914	26.410	-2.812	1.00	37.80		C
ANISOU	1297	CB	MSE	A	483	4893	4819	4650	7	-340	-1286	C
ATOM	1298	CG	MSE	A	483	34.138	25.073	-2.119	1.00	39.83		C
ANISOU	1298	CG	MSE	A	483	5231	5224	4679	26	-372	-1178	C
ATOM	1299	SE	MSE	A	483	33.330	25.128	-0.344	0.90	47.98		SE
ANISOU	1299	SE	MSE	A	483	6338	6432	5460	13	-299	-1311	SE
ATOM	1300	CE	MSE	A	483	34.165	26.683	0.484	1.00	37.03		C
ANISOU	1300	CE	MSE	A	483	4897	5079	4093	-21	-371	-1592	C
ATOM	1301	C	MSE	A	483	32.325	28.052	-3.738	1.00	38.73		C
ANISOU	1301	C	MSE	A	483	4933	4704	5077	19	-203	-1393	C
ATOM	1302	O	MSE	A	483	32.588	27.979	-4.960	1.00	38.53		O
ANISOU	1302	O	MSE	A	483	4879	4574	5187	23	-229	-1272	O
ATOM	1303	OXT	MSE	A	483	31.982	29.121	-3.192	1.00	40.68		O
ANISOU	1303	OXT	MSE	A	483	5163	4914	5380	17	-166	-1568	O
ATOM	1304	N	SER	B	320	6.053	17.488	-14.523	1.00	52.35		N
ANISOU	1304	N	SER	B	320	7545	5144	7203	2251	154	-336	N
ATOM	1305	CA	SER	B	320	6.175	16.006	-14.678	1.00	50.09		C
ANISOU	1305	CA	SER	B	320	6969	5155	6909	2037	116	-339	C
ATOM	1306	CB	SER	B	320	5.622	15.284	-13.442	1.00	49.98		C
ANISOU	1306	CB	SER	B	320	6809	5295	6886	2058	243	-458	C
ATOM	1307	OG	SER	B	320	6.227	14.008	-13.284	1.00	47.08		O
ANISOU	1307	OG	SER	B	320	6311	5089	6488	1786	217	-488	O
ATOM	1308	C	SER	B	320	5.493	15.472	-15.958	1.00	50.02		C
ANISOU	1308	C	SER	B	320	6692	5379	6934	2091	11	-208	C
ATOM	1309	O	SER	B	320	4.593	16.118	-16.530	1.00	52.10		O
ANISOU	1309	O	SER	B	320	6909	5650	7236	2351	-17	-120	O
ATOM	1310	N	SER	B	321	5.933	14.292	-16.391	1.00	47.01		N
ANISOU	1310	N	SER	B	321	6145	5184	6533	1852	-52	-200	N
ATOM	1311	CA	SER	B	321	5.467	13.682	-17.637	1.00	46.52		C
ANISOU	1311	CA	SER	B	321	5861	5338	6476	1841	-166	-97	C
ATOM	1312	CB	SER	B	321	6.558	13.805	-18.715	1.00	45.54		C
ANISOU	1312	CB	SER	B	321	5887	5120	6297	1664	-270	-17	C
ATOM	1313	OG	SER	B	321	6.312	12.943	-19.816	1.00	45.99		O
ANISOU	1313	OG	SER	B	321	5744	5402	6326	1586	-373	48	O
ATOM	1314	C	SER	B	321	5.048	12.212	-17.426	1.00	44.12		C
ANISOU	1314	C	SER	B	321	5267	5313	6185	1707	-153	-150	C
ATOM	1315	O	SER	B	321	5.732	11.476	-16.721	1.00	42.89		O
ANISOU	1315	O	SER	B	321	5134	5155	6007	1511	-100	-235	O
ATOM	1316	N	SER	B	322	3.928	11.813	-18.037	1.00	43.82		N
ANISOU	1316	N	SER	B	322	4963	5507	6179	1810	-209	-96	N
ATOM	1317	CA	SER	B	322	3.371	10.454	-17.924	1.00	42.09		C
ANISOU	1317	CA	SER	B	322	4461	5551	5981	1676	-201	-140	C
ATOM	1318	CB	SER	B	322	2.114	10.463	-17.059	1.00	43.94		C
ANISOU	1318	CB	SER	B	322	4489	5924	6284	1855	-88	-176	C
ATOM	1319	OG	SER	B	322	2.445	10.678	-15.713	1.00	46.56		O
ANISOU	1319	OG	SER	B	322	4969	6115	6605	1864	69	-271	O
ATOM	1320	C	SER	B	322	2.996	9.800	-19.256	1.00	40.57		C
ANISOU	1320	C	SER	B	322	4083	5563	5770	1602	-354	-68	C
ATOM	1321	O	SER	B	322	2.599	10.477	-20.210	1.00	42.21		O
ANISOU	1321	O	SER	B	322	4284	5791	5965	1754	-465	32	O
ATOM	1322	N	PHE	B	323	3.081	8.475	-19.284	1.00	36.89		N
ANISOU	1322	N	PHE	B	323	3479	5243	5295	1374	-362	-122	N
ATOM	1323	CA	PHE	B	323	2.551	7.663	-20.374	1.00	36.10		C
ANISOU	1323	CA	PHE	B	323	3178	5364	5176	1279	-495	-90	C
ATOM	1324	CB	PHE	B	323	3.513	7.627	-21.574	1.00	34.59		C
ANISOU	1324	CB	PHE	B	323	3153	5104	4888	1159	-613	-44	C
ATOM	1325	CG	PHE	B	323	4.919	7.274	-21.200	1.00	30.95		C
ANISOU	1325	CG	PHE	B	323	2900	4468	4391	973	-541	-102	C
ATOM	1326	CD1	PHE	B	323	5.340	5.953	-21.231	1.00	26.79		C
ANISOU	1326	CD1	PHE	B	323	2326	4009	3845	748	-533	-173	C
ATOM	1327	CE1	PHE	B	323	6.630	5.629	-20.870	1.00	28.42		C
ANISOU	1327	CE1	PHE	B	323	2700	4071	4027	608	-472	-218	C
ATOM	1328	CZ	PHE	B	323	7.524	6.648	-20.464	1.00	28.42		C
ANISOU	1328	CZ	PHE	B	323	2907	3870	4021	662	-426	-198	C

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Figure 18 (continued)

ATOM	1329	CE2	PHE	B	323	7.088	7.988	-20.442	1.00	27.51		C
ANISOU	1329	CE2	PHE	B	323	2862	3668	3922	862	-434	-134	C
ATOM	1330	CD2	PHE	B	323	5.813	8.277	-20.801	1.00	27.06		C
ANISOU	1330	CD2	PHE	B	323	2650	3742	3890	1028	-486	--86	C
ATOM	1331	C	PHE	B	323	2.265	6.253	-19.873	1.00	35.08		C
ANISOU	1331	C	PHE	B	323	2870	5383	5074	1071	-439	-175	C
ATOM	1332	O	PHE	B	323	2.618	5.888	-18.744	1.00	33.74		O
ANISOU	1332	O	PHE	B	323	2759	5134	4925	997	-303	-245	O
ATOM	1333	N	SER	B	324	1.618	5.474	-20.725	1.00	35.51		N
ANISOU	1333	N	SER	B	324	2724	5647	5120	971	-553	-167	N
ATOM	1334	CA	SER	B	324	1.270	4.093	-20.446	1.00	35.61		C
ANISOU	1334	CA	SER	B	324	2576	5797	5160	747	-521	-240	C
ATOM	1335	CB	SER	B	324	-0.200	3.869	-20.791	1.00	38.02		C
ANISOU	1335	CB	SER	B	324	2544	6381	5520	785	-594	-217	C
ATOM	1336	OG	SER	B	324	-0.802	2.894	-19.960	1.00	41.46		O
ANISOU	1336	OG	SER	B	324	2800	6931	6024	634	-483	-279	O
ATOM	1337	C	SER	B	324	2.182	3.210	-21.320	1.00	33.97		C
ANISOU	1337	C	SER	B	324	2498	5542	4866	521	-606	-273	C
ATOM	1338	O	SER	B	324	2.389	3.498	-22.500	1.00	34.44		O
ANISOU	1338	O	SER	B	324	2615	5622	4850	539	-742	-227	O
ATOM	1339	N	PHE	B	325	2.760	2.167	-20.734	1.00	31.78		N
ANISOU	1339	N	PHE	B	325	2289	5194	4592	327	-518	-348	N
ATOM	1340	CA	PHE	B	325	3.513	1.176	-21.491	1.00	29.85		C
ANISOU	1340	CA	PHE	B	325	2148	4915	4278	124	-577	-395	C
ATOM	1341	CB	PHE	B	325	4.972	1.610	-21.693	1.00	28.12		C
ANISOU	1341	CB	PHE	B	325	2192	4498	3995	143	-561	-383	C
ATOM	1342	CG	PHE	B	325	5.770	0.673	-22.571	1.00	26.86		C
ANISOU	1342	CG	PHE	B	325	2137	4311	3757	-27	-608	-429	C
ATOM	1343	CD1	PHE	B	325	5.458	0.518	-23.931	1.00	28.72		C
ANISOU	1343	CD1	PHE	B	325	2340	4663	3908	-68	-746	-422	C
ATOM	1344	CE1	PHE	B	325	6.190	-0.356	-24.743	1.00	28.43		C
ANISOU	1344	CE1	PHE	B	325	2420	4597	3784	-214	-772	-481	C
ATOM	1345	CZ	PHE	B	325	7.263	-1.082	-24.196	1.00	26.96		C
ANISOU	1345	CZ	PHE	B	325	2368	4261	3612	-302	-660	-539	C
ATOM	1346	CE2	PHE	B	325	7.581	-0.933	-22.850	1.00	23.52		C
ANISOU	1346	CE2	PHE	B	325	1951	3720	3265	-259	-543	-533	C
ATOM	1347	CD2	PHE	B	325	6.831	-0.057	-22.045	1.00	25.04		C
ANISOU	1347	CD2	PHE	B	325	2043	3944	3527	-131	-518	-483	C
ATOM	1348	C	PHE	B	325	3.456	-0.162	-20.770	1.00	29.26		C
ANISOU	1348	C	PHE	B	325	2036	4838	4242	-75	-486	-471	C
ATOM	1349	O	PHE	B	325	3.759	-0.239	-19.586	1.00	27.73		O
ANISOU	1349	O	PHE	B	325	1904	4545	4086	-67	-351	-485	O
ATOM	1350	N	GLY	B	326	3.028	-1.202	-21.487	1.00	30.19		N
ANISOU	1350	N	GLY	B	326	2067	5063	4339	-256	-565	-518	N
ATOM	1351	CA	GLY	B	326	2.970	-2.562	-20.950	1.00	30.07		C
ANISOU	1351	CA	GLY	B	326	2049	5020	4356	-471	-488	-587	C
ATOM	1352	C	GLY	B	326	2.057	-2.782	-19.754	1.00	31.33		C
ANISOU	1352	C	GLY	B	326	2041	5253	4609	-494	-364	-580	C
ATOM	1353	O	GLY	B	326	2.288	-3.706	-18.964	1.00	30.80		O
ANISOU	1353	O	GLY	B	326	2046	5095	4563	-632	-253	-612	O
ATOM	1354	N	GLY	B	327	1.029	-1.938	-19.624	1.00	32.09		N
ANISOU	1354	N	GLY	B	327	1922	5515	4756	-348	-374	-531	N
ATOM	1355	CA	GLY	B	327	0.118	-1.987	-18.486	1.00	33.34		C
ANISOU	1355	CA	GLY	B	327	1900	5769	4998	-337	-231	-519	C
ATOM	1356	C	GLY	B	327	0.542	-1.183	-17.265	1.00	31.95		C
ANISOU	1356	C	GLY	B	327	1846	5467	4829	-154	-76	-495	C
ATOM	1357	O	GLY	B	327	-0.117	-1.257	-16.216	1.00	33.59		O
ANISOU	1357	O	GLY	B	327	1940	5738	5083	-142	73	-490	O
ATOM	1358	N	PHE	B	328	1.609	-0.399	-17.411	1.00	29.32		N
ANISOU	1358	N	PHE	B	328	1738	4962	4439	-22	-107	-482	N
ATOM	1359	CA	PHE	B	328	2.156	0.428	-16.338	1.00	28.13		C
ANISOU	1359	CA	PHE	B	328	1744	4669	4277	135	12	-473	C
ATOM	1360	CB	PHE	B	328	3.628	0.057	-16.050	1.00	25.60		C
ANISOU	1360	CB	PHE	B	328	1698	4135	3894	50	27	-499	C
ATOM	1361	CG	PHE	B	328	3.793	-1.258	-15.358	1.00	25.59		C
ANISOU	1361	CG	PHE	B	328	1733	4099	3890	-141	113	-529	C
ATOM	1362	CD1	PHE	B	328	3.840	-1.329	-13.968	1.00	25.50		C
ANISOU	1362	CD1	PHE	B	328	1790	4033	3866	-125	261	-531	C
ATOM	1363	CE1	PHE	B	328	3.965	-2.559	-13.319	1.00	24.09		C
ANISOU	1363	CE1	PHE	B	328	1665	3812	3675	-297	342	-539	C
ATOM	1364	CZ	PHE	B	328	4.054	-3.706	-14.047	1.00	24.40		C

Figure 18 (continued)

ANISOU	1364	CZ	PHE	B	328	1699	3843	3728	-482	279	-556	C
ATOM	1365	CE2	PHE	B	328	4.005	-3.655	-15.450	1.00	25.53		C
ANISOU	1365	CE2	PHE	B	328	1777	4043	3882	-505	132	-574	C
ATOM	1366	CD2	PHE	B	328	3.876	-2.433	-16.092	1.00	24.35		C
ANISOU	1366	CD2	PHE	B	328	1565	3954	3731	-335	49	-556	C
ATOM	1367	C	PHE	B	328	2.093	1.894	-16.718	1.00	28.62		C
ANISOU	1367	C	PHE	B	328	1826	4711	4336	382	-44	-429	C
ATOM	1368	O	PHE	B	328	2.399	2.262	-17.854	1.00	28.17		O
ANISOU	1368	O	PHE	B	328	1811	4646	4248	412	-185	-399	O
ATOM	1369	N	THR	B	329	1.690	2.727	-15.760	1.00	29.74		N
ANISOU	1369	N	THR	B	329	1959	4837	4502	563	74	-425	N
ATOM	1370	CA	THR	B	329	1.801	4.169	-15.900	1.00	29.75		C
ANISOU	1370	CA	THR	B	329	2059	4747	4498	808	49	-391	C
ATOM	1371	CB	THR	B	329	0.751	4.914	-15.031	1.00	32.29		C
ANISOU	1371	CB	THR	B	329	2253	5145	4871	1029	182	-390	C
ATOM	1372	OG1	THR	B	329	-0.576	4.482	-15.374	1.00	31.53		O
ANISOU	1372	OG1	THR	B	329	1818	5316	4846	1033	168	-364	O
ATOM	1373	CG2	THR	B	329	0.846	6.411	-15.230	1.00	31.75		C
ANISOU	1373	CG2	THR	B	329	2316	4948	4799	1297	153	-356	C
ATOM	1374	C	THR	B	329	3.223	4.532	-15.485	1.00	28.41		C
ANISOU	1374	C	THR	B	329	2200	4331	4263	781	67	-416	C
ATOM	1375	O	THR	B	329	3.629	4.259	-14.350	1.00	29.14		O
ANISOU	1375	O	THR	B	329	2399	4343	4330	729	183	-463	O
ATOM	1376	N	PHE	B	330	3.995	5.073	-16.429	1.00	27.40		N
ANISOU	1376	N	PHE	B	330	2210	4099	4102	796	-52	-380	N
ATOM	1377	CA	PHE	B	330	5.301	5.664	-16.167	1.00	25.35		C
ANISOU	1377	CA	PHE	B	330	2219	3620	3794	784	-48	-393	C
ATOM	1378	CB	PHE	B	330	6.178	5.570	-17.410	1.00	24.18		C
ANISOU	1378	CB	PHE	B	330	2153	3429	3605	684	-174	-355	C
ATOM	1379	CG	PHE	B	330	6.737	4.194	-17.671	1.00	21.46		C
ANISOU	1379	CG	PHE	B	330	1782	3132	3238	468	-193	-390	C
ATOM	1380	CD1	PHE	B	330	8.110	3.963	-17.574	1.00	18.03		C
ANISOU	1380	CD1	PHE	B	330	1514	2572	2767	358	-191	-410	C
ATOM	1381	CE1	PHE	B	330	8.642	2.682	-17.836	1.00	18.22		C
ANISOU	1381	CE1	PHE	B	330	1523	2625	2773	192	-201	-442	C
ATOM	1382	CZ	PHE	B	330	7.787	1.630	-18.182	1.00	18.84		C
ANISOU	1382	CZ	PHE	B	330	1451	2841	2869	110	-215	-462	C
ATOM	1383	CE2	PHE	B	330	6.396	1.859	-18.267	1.00	18.39		C
ANISOU	1383	CE2	PHE	B	330	1214	2923	2849	186	-226	-444	C
ATOM	1384	CD2	PHE	B	330	5.895	3.134	-18.019	1.00	20.38		C
ANISOU	1384	CD2	PHE	B	330	1457	3165	3123	377	-214	-404	C
ATOM	1385	C	PHE	B	330	5.142	7.118	-15.831	1.00	27.08		C
ANISOU	1385	C	PHE	B	330	2554	3714	4019	1002	-15	-376	C
ATOM	1386	O	PHE	B	330	4.443	7.841	-16.532	1.00	28.76		O
ANISOU	1386	O	PHE	B	330	2699	3969	4258	1167	-72	-316	O
ATOM	1387	N	LYS	B	331	5.795	7.544	-14.756	1.00	27.03		N
ANISOU	1387	N	LYS	B	331	2738	3549	3983	1008	70	-432	N
ATOM	1388	CA	LYS	B	331	5.856	8.956	-14.420	1.00	29.58		C
ANISOU	1388	CA	LYS	B	331	3242	3697	4301	1189	100	-435	C
ATOM	1389	CB	LYS	B	331	5.064	9.247	-13.135	1.00	30.49		C
ANISOU	1389	CB	LYS	B	331	3344	3823	4419	1336	253	-500	C
ATOM	1390	CG	LYS	B	331	5.276	10.638	-12.593	1.00	34.42		C
ANISOU	1390	CG	LYS	B	331	4088	4096	4893	1503	301	-536	C
ATOM	1391	CD	LYS	B	331	4.335	10.970	-11.437	1.00	37.48		C
ANISOU	1391	CD	LYS	B	331	4452	4511	5276	1692	469	-604	C
ATOM	1392	CE	LYS	B	331	4.357	12.470	-11.157	1.00	44.58		C
ANISOU	1392	CE	LYS	B	331	5601	5174	6164	1907	508	-635	C
ATOM	1393	NZ	LYS	B	331	3.272	12.887	-10.223	1.00	50.24		N
ANISOU	1393	NZ	LYS	B	331	6274	5932	6884	2152	684	-696	N
ATOM	1394	C	LYS	B	331	7.324	9.355	-14.298	1.00	28.10		C
ANISOU	1394	C	LYS	B	331	3311	3304	4062	1062	61	-456	C
ATOM	1395	O	LYS	B	331	8.037	8.798	-13.466	1.00	27.89		O
ANISOU	1395	O	LYS	B	331	3352	3249	3997	924	98	-517	O
ATOM	1396	N	ARG	B	332	7.787	10.293	-15.132	1.00	28.13		N
ANISOU	1396	N	ARG	B	332	3451	3172	4064	1099	-16	-397	N
ATOM	1397	CA	ARG	B	332	9.184	10.755	-15.057	1.00	27.45		C
ANISOU	1397	CA	ARG	B	332	3590	2899	3940	958	-50	-412	C
ATOM	1398	CB	ARG	B	332	9.671	11.403	-16.367	1.00	27.67		C
ANISOU	1398	CB	ARG	B	332	3703	2846	3966	939	-143	-313	C
ATOM	1399	CG	ARG	B	332	11.213	11.679	-16.389	1.00	27.23		C
ANISOU	1399	CG	ARG	B	332	3826	2642	3879	736	-173	-321	C

Figure 18 (continued)

ATOM	1400	CD	ARG	B	332	11.712	12.014	-17.789	1.00	28.39		C
ANISOU	1400	CD	ARG	B	332	4015	2763	4011	677	-245	-212	C
ATOM	1401	NE	ARG	B	332	11.084	13.243	-18.288	1.00	31.78		N
ANISOU	1401	NE	ARG	B	332	4571	3058	4448	859	-260	-132	N
ATOM	1402	CZ	ARG	B	332	11.095	13.644	-19.557	1.00	31.92		C
ANISOU	1402	CZ	ARG	B	332	4626	3063	4438	881	-322	-10	C
ATOM	1403	NH1	ARG	B	332	11.702	12.900	-20.497	1.00	29.06		N
ANISOU	1403	NH1	ARG	B	332	4180	2829	4034	723	-365	33	N
ATOM	1404	NH2	ARG	B	332	10.480	14.783	-19.881	1.00	27.89		N
ANISOU	1404	NH2	ARG	B	332	4251	2412	3935	1075	-335	69	N
ATOM	1405	C	ARG	B	332	9.449	11.702	-13.890	1.00	28.06		C
ANISOU	1405	C	ARG	B	332	3890	2780	3993	1015	19	-492	C
ATOM	1406	O	ARG	B	332	8.854	12.786	-13.811	1.00	29.26		O
ANISOU	1406	O	ARG	B	332	4150	2809	4160	1208	53	-486	O
ATOM	1407	N	THR	B	333	10.387	11.304	-13.020	1.00	26.57		N
ANISOU	1407	N	THR	B	333	3782	2555	3757	850	30	-566	N
ATOM	1408	CA	THR	B	333	10.701	12.072	-11.806	1.00	27.14		C
ANISOU	1408	CA	THR	B	333	4076	2459	3779	868	83	-664	C
ATOM	1409	CB	THR	B	333	10.605	11.185	-10.551	1.00	26.57		C
ANISOU	1409	CB	THR	B	333	3954	2494	3648	824	153	-747	C
ATOM	1410	OG1	THR	B	333	11.447	10.029	-10.706	1.00	26.24		O
ANISOU	1410	OG1	THR	B	333	3808	2566	3597	626	88	-725	O
ATOM	1411	CG2	THR	B	333	9.165	10.725	-10.341	1.00	27.09		C
ANISOU	1411	CG2	THR	B	333	3835	2720	3738	992	259	-741	C
ATOM	1412	C	THR	B	333	12.062	12.825	-11.844	1.00	26.96		C
ANISOU	1412	C	THR	B	333	4273	2240	3731	703	8	-680	C
ATOM	1413	O	THR	B	333	12.273	13.724	-11.056	1.00	27.63		O
ANISOU	1413	O	THR	B	333	4577	2144	3775	722	33	-758	O
ATOM	1414	N	SER	B	334	12.957	12.454	-12.768	1.00	25.38		N
ANISOU	1414	N	SER	B	334	4008	2081	3552	536	-76	-610	N
ATOM	1415	CA	SER	B	334	14.274	13.108	-12.964	1.00	25.51		C
ANISOU	1415	CA	SER	B	334	4182	1950	3561	351	-143	-605	C
ATOM	1416	CB	SER	B	334	15.373	12.428	-12.171	1.00	24.37		C
ANISOU	1416	CB	SER	B	334	4014	1868	3377	157	-184	-671	C
ATOM	1417	OG	SER	B	334	15.537	13.002	-10.926	1.00	29.53		O
ANISOU	1417	OG	SER	B	334	4850	2400	3971	145	-173	-780	O
ATOM	1418	C	SER	B	334	14.705	12.915	-14.375	1.00	24.24		C
ANISOU	1418	C	SER	B	334	3928	1847	3436	271	-195	-492	C
ATOM	1419	O	SER	B	334	14.323	11.934	-15.016	1.00	22.59		O
ANISOU	1419	O	SER	B	334	3521	1822	3240	295	-199	-445	O
ATOM	1420	N	GLY	B	335	15.562	13.811	-14.833	1.00	24.97		N
ANISOU	1420	N	GLY	B	335	4172	1782	3533	151	-230	-453	N
ATOM	1421	CA	GLY	B	335	16.223	13.648	-16.116	1.00	24.84		C
ANISOU	1421	CA	GLY	B	335	4086	1821	3529	33	-264	-347	C
ATOM	1422	C	GLY	B	335	15.352	14.058	-17.286	1.00	25.60		C
ANISOU	1422	C	GLY	B	335	4192	1905	3631	188	-262	-234	C
ATOM	1423	O	GLY	B	335	14.281	14.625	-17.106	1.00	27.00		O
ANISOU	1423	O	GLY	B	335	4436	2007	3818	395	-241	-231	O
ATOM	1424	N	SER	B	336	15.838	13.762	-18.487	1.00	25.43		N
ANISOU	1424	N	SER	B	336	4099	1967	3594	95	-285	-138	N
ATOM	1425	CA	SER	B	336	15.225	14.169	-19.749	1.00	26.34		C
ANISOU	1425	CA	SER	B	336	4242	2078	3686	207	-303	-11	C
ATOM	1426	CB	SER	B	336	15.484	15.656	-20.048	1.00	28.83		C
ANISOU	1426	CB	SER	B	336	4827	2128	3998	202	-299	68	C
ATOM	1427	OG	SER	B	336	16.856	16.025	-19.901	1.00	30.57		O
ANISOU	1427	OG	SER	B	336	5147	2245	4224	-53	-286	57	O
ATOM	1428	C	SER	B	336	15.816	13.280	-20.832	1.00	25.42		C
ANISOU	1428	C	SER	B	336	3985	2145	3531	81	-316	46	C
ATOM	1429	O	SER	B	336	16.779	12.541	-20.571	1.00	23.98		O
ANISOU	1429	O	SER	B	336	3706	2050	3355	-85	-301	-9	O
ATOM	1430	N	SER	B	337	15.231	13.301	-22.031	1.00	25.43		N
ANISOU	1430	N	SER	B	337	3968	2213	3481	171	-346	151	N
ATOM	1431	CA	SER	B	337	15.828	12.576	-23.140	1.00	24.60		C
ANISOU	1431	CA	SER	B	337	3774	2261	3312	52	-346	201	C
ATOM	1432	CB	SER	B	337	15.457	11.084	-23.140	1.00	23.13		C
ANISOU	1432	CB	SER	B	337	3365	2304	3120	64	-359	122	C
ATOM	1433	OG	SER	B	337	14.075	10.828	-23.373	1.00	25.51		O
ANISOU	1433	OG	SER	B	337	3581	2702	3411	240	-413	131	O
ATOM	1434	C	SER	B	337	15.505	13.216	-24.460	1.00	26.16		C
ANISOU	1434	C	SER	B	337	4078	2434	3427	115	-376	348	C
ATOM	1435	O	SER	B	337	14.583	14.017	-24.556	1.00	27.15		O

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Figure 18 (continued)

ANISOU	1435	O	SER	B	337	4301	2463	3552	294	-417	413	O
ATOM	1436	N	ILE	B	338	16.325	12.882	-25.455	1.00	26.35		N
ANISOU	1436	N	ILE	B	338	4093	2544	3376	-27	-349	404	N
ATOM	1437	CA	ILE	B	338	16.075	13.222	-26.849	1.00	27.55		C
ANISOU	1437	CA	ILE	B	338	4332	2727	3410	14	-377	545	C
ATOM	1438	CB	ILE	B	338	17.191	14.129	-27.454	1.00	28.81		C
ANISOU	1438	CB	ILE	B	338	4678	2747	3523	-152	-306	660	C
ATOM	1439	CG1	ILE	B	338	18.579	13.472	-27.383	1.00	26.68		C
ANISOU	1439	CG1	ILE	B	338	4302	2568	3268	-384	-214	597	C
ATOM	1440	CD1	ILE	B	338	19.665	14.286	-28.122	1.00	28.93		C
ANISOU	1440	CD1	ILE	B	338	4733	2760	3499	-571	-128	723	C
ATOM	1441	CG2	ILE	B	338	17.170	15.486	-26.777	1.00	29.60		C
ANISOU	1441	CG2	ILE	B	338	4987	2564	3694	-128	-302	701	C
ATOM	1442	C	ILE	B	338	15.884	11.899	-27.586	1.00	26.88		C
ANISOU	1442	C	ILE	B	338	4074	2894	3245	3	-398	501	C
ATOM	1443	O	ILE	B	338	16.186	10.856	-27.040	1.00	24.81		O
ANISOU	1443	O	ILE	B	338	3658	2737	3031	-63	-370	378	O
ATOM	1444	N	LYS	B	339	15.351	11.936	-28.800	1.00	29.34		N
ANISOU	1444	N	LYS	B	339	4428	3294	3428	73	-455	600	N
ATOM	1445	CA	LYS	B	339	15.109	10.715	-29.550	1.00	29.97		C
ANISOU	1445	CA	LYS	B	339	4375	3601	3413	56	-486	546	C
ATOM	1446	CB	LYS	B	339	13.657	10.595	-30.002	1.00	31.00		C
ANISOU	1446	CB	LYS	B	339	4446	3844	3489	232	-625	574	C
ATOM	1447	CG	LYS	B	339	12.575	10.731	-28.976	1.00	33.08		C
ANISOU	1447	CG	LYS	B	339	4606	4083	3882	388	-683	524	C
ATOM	1448	CD	LYS	B	339	11.246	10.804	-29.743	1.00	39.25		C
ANISOU	1448	CD	LYS	B	339	5331	4998	4584	558	-828	596	C
ATOM	1449	CE	LYS	B	339	10.060	11.092	-28.864	1.00	42.38		C
ANISOU	1449	CE	LYS	B	339	5609	5391	5103	748	-881	574	C
ATOM	1450	NZ	LYS	B	339	8.914	11.502	-29.728	1.00	47.09		N
ANISOU	1450	NZ	LYS	B	339	6177	6097	5618	936	-1030	689	N
ATOM	1451	C	LYS	B	339	15.927	10.747	-30.817	1.00	31.76		C
ANISOU	1451	C	LYS	B	339	4705	3878	3485	-58	-431	632	C
ATOM	1452	O	LYS	B	339	16.135	11.812	-31.422	1.00	33.75		O
ANISOU	1452	O	LYS	B	339	5140	4018	3664	-59	-419	782	O
ATOM	1453	N	ARG	B	340	16.350	9.566	-31.237	1.00	31.26		N
ANISOU	1453	N	ARG	B	340	4539	3977	3361	-146	-389	540	N
ATOM	1454	CA	ARG	B	340	16.998	9.401	-32.494	1.00	33.42		C
ANISOU	1454	CA	ARG	B	340	4895	4340	3462	-234	-327	598	C
ATOM	1455	CB	ARG	B	340	18.495	9.339	-32.275	1.00	33.24		C
ANISOU	1455	CB	ARG	B	340	4857	4283	3488	-401	-164	576	C
ATOM	1456	CG	ARG	B	340	19.324	9.305	-33.537	1.00	37.60		C
ANISOU	1456	CG	ARG	B	340	5499	4922	3866	-502	-54	648	C
ATOM	1457	CD	ARG	B	340	20.659	8.729	-33.170	1.00	40.36		C
ANISOU	1457	CD	ARG	B	340	5728	5314	4294	-636	100	564	C
ATOM	1458	NE	ARG	B	340	21.646	8.866	-34.226	1.00	47.19		N
ANISOU	1458	NE	ARG	B	340	6660	6250	5019	-750	249	643	N
ATOM	1459	CZ	ARG	B	340	22.821	8.236	-34.223	1.00	50.98		C
ANISOU	1459	CZ	ARG	B	340	7018	6824	5528	-847	401	575	C
ATOM	1460	NH1	ARG	B	340	23.142	7.436	-33.197	1.00	49.64		N
ANISOU	1460	NH1	ARG	B	340	6666	6673	5521	-835	403	436	N
ATOM	1461	NH2	ARG	B	340	23.677	8.409	-35.235	1.00	52.82		N
ANISOU	1461	NH2	ARG	B	340	7309	7137	5623	-947	557	654	N
ATOM	1462	C	ARG	B	340	16.484	8.111	-33.093	1.00	33.37		C
ANISOU	1462	C	ARG	B	340	4794	4530	3355	-214	-380	492	C
ATOM	1463	O	ARG	B	340	16.559	7.042	-32.483	1.00	31.57		O
ANISOU	1463	O	ARG	B	340	4424	4358	3211	-242	-359	344	O
ATOM	1464	N	GLU	B	341	15.934	8.230	-34.287	1.00	35.28		N
ANISOU	1464	N	GLU	B	341	5133	4866	3405	-168	-458	572	N
ATOM	1465	CA	GLU	B	341	15.436	7.081	-34.986	1.00	35.48		C
ANISOU	1465	CA	GLU	B	341	5103	5074	3304	-171	-522	469	C
ATOM	1466	CB	GLU	B	341	14.512	7.527	-36.105	1.00	37.67		C
ANISOU	1466	CB	GLU	B	341	5486	5442	3384	-83	-672	584	C
ATOM	1467	CG	GLU	B	341	14.003	6.403	-36.917	1.00	39.18		C
ANISOU	1467	CG	GLU	B	341	5645	5825	3415	-110	-756	475	C
ATOM	1468	CD	GLU	B	341	12.728	6.772	-37.589	1.00	43.97		C
ANISOU	1468	CD	GLU	B	341	6272	6540	3896	5	-971	563	C
ATOM	1469	OE1	GLU	B	341	12.775	7.040	-38.814	1.00	45.83		O
ANISOU	1469	OE1	GLU	B	341	6670	6857	3888	4	-1010	659	O
ATOM	1470	OE2	GLU	B	341	11.690	6.807	-36.876	1.00	44.98		O
ANISOU	1470	OE2	GLU	B	341	6245	6681	4165	102	-1097	541	O

Figure 18 (continued)

ATOM	1471	C	GLU	B	341	16.615	6.290	-35.516	1.00	35.17		C
ANISOU	1471	C	GLU	B	341	5086	5099	3177	-298	-363	393	C
ATOM	1472	O	GLU	B	341	17.472	6.835	-36.209	1.00	37.32		O
ANISOU	1472	O	GLU	B	341	5483	5357	3339	-362	-251	492	O
ATOM	1473	N	GLU	B	342	16.644	5.013	-35.154	1.00	33.75		N
ANISOU	1473	N	GLU	B	342	4787	4983	3052	-329	-342	219	N
ATOM	1474	CA	GLU	B	342	17.705	4.076	-35.501	1.00	33.58		C
ANISOU	1474	CA	GLU	B	342	4763	5018	2979	-412	-187	115	C
ATOM	1475	CB	GLU	B	342	18.534	3.739	-34.259	1.00	32.29		C
ANISOU	1475	CB	GLU	B	342	4466	4768	3036	-442	-80	40	C
ATOM	1476	CG	GLU	B	342	19.606	4.754	-33.977	1.00	34.89		C
ANISOU	1476	CG	GLU	B	342	4812	5012	3434	-500	36	153	C
ATOM	1477	CD	GLU	B	342	20.496	4.362	-32.851	1.00	37.32		C
ANISOU	1477	CD	GLU	B	342	4979	5269	3931	-536	124	77	C
ATOM	1478	OE1	GLU	B	342	20.843	5.278	-32.069	1.00	41.51		O
ANISOU	1478	OE1	GLU	B	342	5491	5694	4587	-569	129	148	O
ATOM	1479	OE2	GLU	B	342	20.843	3.159	-32.724	1.00	37.32		O
ANISOU	1479	OE2	GLU	B	342	4900	5327	3954	-527	180	-53	O
ATOM	1480	C	GLU	B	342	17.091	2.790	-35.997	1.00	33.24		C
ANISOU	1480	C	GLU	B	342	4709	5088	2833	-414	-253	-36	C
ATOM	1481	O	GLU	B	342	15.936	2.497	-35.709	1.00	32.03		O
ANISOU	1481	O	GLU	B	342	4490	4961	2718	-376	-409	-82	O
ATOM	1482	N	GLU	B	343	17.874	2.026	-36.750	1.00	33.79		N
ANISOU	1482	N	GLU	B	343	4844	5224	2771	-463	-125	-118	N
ATOM	1483	CA	GLU	B	343	17.505	0.666	-37.091	1.00	33.29		C
ANISOU	1483	CA	GLU	B	343	4790	5227	2632	-481	-154	-296	C
ATOM	1484	CB	GLU	B	343	17.416	0.491	-38.604	1.00	36.07		C
ANISOU	1484	CB	GLU	B	343	5318	5705	2683	-507	-163	-306	C
ATOM	1485	CG	GLU	B	343	16.227	1.164	-39.223	1.00	38.05		C
ANISOU	1485	CG	GLU	B	343	5629	6034	2792	-482	-375	-205	C
ATOM	1486	CD	GLU	B	343	16.323	1.206	-40.720	1.00	44.38		C
ANISOU	1486	CD	GLU	B	343	6631	6962	3270	-507	-371	-179	C
ATOM	1487	OE1	GLU	B	343	17.386	1.640	-41.255	1.00	46.93		O
ANISOU	1487	OE1	GLU	B	343	7056	7285	3489	-524	-186	-100	O
ATOM	1488	OE2	GLU	B	343	15.327	0.808	-41.360	1.00	46.73		O
ANISOU	1488	OE2	GLU	B	343	6979	7369	3409	-518	-553	-236	O
ATOM	1489	C	GLU	B	343	18.493	-0.319	-36.484	1.00	31.64		C
ANISOU	1489	C	GLU	B	343	4511	4962	2549	-492	10	-426	C
ATOM	1490	O	GLU	B	343	19.706	-0.165	-36.609	1.00	31.47		O
ANISOU	1490	O	GLU	B	343	4491	4938	2528	-499	188	-397	O
ATOM	1491	N	VAL	B	344	17.937	-1.331	-35.831	1.00	30.29		N
ANISOU	1491	N	VAL	B	344	4273	4751	2484	-492	-54	-560	N
ATOM	1492	CA	VAL	B	344	18.689	-2.310	-35.054	1.00	28.25		C
ANISOU	1492	CA	VAL	B	344	3947	4413	2372	-477	67	-673	C
ATOM	1493	CB	VAL	B	344	18.436	-2.166	-33.514	1.00	26.46		C
ANISOU	1493	CB	VAL	B	344	3570	4085	2396	-456	14	-647	C
ATOM	1494	CG1	VAL	B	344	18.841	-0.786	-33.009	1.00	25.57		C
ANISOU	1494	CG1	VAL	B	344	3398	3945	2372	-442	27	-489	C
ATOM	1495	CG2	VAL	B	344	16.977	-2.489	-33.150	1.00	24.38		C
ANISOU	1495	CG2	VAL	B	344	3272	3821	2170	-479	-160	-691	C
ATOM	1496	C	VAL	B	344	18.313	-3.718	-35.484	1.00	28.72		C
ANISOU	1496	C	VAL	B	344	4091	4473	2347	-501	54	-854	C
ATOM	1497	O	VAL	B	344	17.259	-3.928	-36.106	1.00	29.90		O
ANISOU	1497	O	VAL	B	344	4309	4683	2368	-553	-89	-899	O
ATOM	1498	N	LEU	B	345	19.158	-4.685	-35.122	1.00	27.67		N
ANISOU	1498	N	LEU	B	345	3954	4268	2292	-464	195	-959	N
ATOM	1499	CA	LEU	B	345	19.009	-6.054	-35.598	1.00	28.06		C
ANISOU	1499	CA	LEU	B	345	4127	4281	2253	-479	220	-1141	C
ATOM	1500	CB	LEU	B	345	20.251	-6.481	-36.379	1.00	28.98		C
ANISOU	1500	CB	LEU	B	345	4335	4421	2254	-413	431	-1204	C
ATOM	1501	CG	LEU	B	345	20.407	-5.803	-37.751	1.00	30.75		C
ANISOU	1501	CG	LEU	B	345	4677	4787	2220	-439	469	-1154	C
ATOM	1502	CD1	LEU	B	345	21.733	-6.157	-38.415	1.00	30.52		C
ANISOU	1502	CD1	LEU	B	345	4708	4796	2093	-363	717	-1205	C
ATOM	1503	CD2	LEU	B	345	19.278	-6.215	-38.670	1.00	32.27		C
ANISOU	1503	CD2	LEU	B	345	5033	5030	2199	-522	316	-1251	C
ATOM	1504	C	LEU	B	345	18.720	-6.985	-34.436	1.00	27.04		C
ANISOU	1504	C	LEU	B	345	3939	4015	2320	-476	193	-1220	C
ATOM	1505	O	LEU	B	345	19.387	-6.910	-33.389	1.00	25.76		O
ANISOU	1505	O	LEU	B	345	3661	3784	2342	-410	262	-1167	O
ATOM	1506	N	THR	B	346	17.695	-7.823	-34.588	1.00	26.96		N

Figure 18 (continued)

ANISOU	1506	N	THR	B	346	4007	3970	2268	-562	81	-1336	N
ATOM	1507	CA	THR	B	346	17.350	-8.749	-33.512	1.00	26.28		C
ANISOU	1507	CA	THR	B	346	3888	3741	2355	-582	62	-1403	C
ATOM	1508	CB	THR	B	346	15.887	-9.268	-33.635	1.00	26.91		C
ANISOU	1508	CB	THR	B	346	4000	3826	2400	-731	-111	-1483	C
ATOM	1509	OG1	THR	B	346	15.764	-10.147	-34.762	1.00	25.20		O
ANISOU	1509	OG1	THR	B	346	3979	3603	1992	-799	-110	-1646	O
ATOM	1510	CG2	THR	B	346	14.906	-8.098	-33.746	1.00	25.10		C
ANISOU	1510	CG2	THR	B	346	3644	3748	2145	-775	-277	-1361	C
ATOM	1511	C	THR	B	346	18.348	-9.919	-33.460	1.00	27.87		C
ANISOU	1511	C	THR	B	346	4198	3808	2581	-499	229	-1520	C
ATOM	1512	O	THR	B	346	19.239	-10.033	-34.325	1.00	29.40		O
ANISOU	1512	O	THR	B	346	4483	4038	2650	-427	363	-1567	O
ATOM	1513	N	GLY	B	347	18.192	-10.779	-32.459	1.00	27.20		N
ANISOU	1513	N	GLY	B	347	4111	3571	2653	-499	231	-1563	N
ATOM	1514	CA	GLY	B	347	18.936	-12.031	-32.387	1.00	29.00		C
ANISOU	1514	CA	GLY	B	347	4473	3639	2908	-413	367	-1680	C
ATOM	1515	C	GLY	B	347	18.678	-12.996	-33.546	1.00	32.22		C
ANISOU	1515	C	GLY	B	347	5117	3994	3132	-473	388	-1868	C
ATOM	1516	O	GLY	B	347	19.373	-14.017	-33.671	1.00	33.15		O
ANISOU	1516	O	GLY	B	347	5381	3967	3245	-376	523	-1981	O
ATOM	1517	N	ASN	B	348	17.675	-12.677	-34.381	1.00	32.97		N
ANISOU	1517	N	ASN	B	348	5255	4201	3069	-625	248	-1904	N
ATOM	1518	CA	ASN	B	348	17.405	-13.400	-35.631	1.00	35.54		C
ANISOU	1518	CA	ASN	B	348	5814	4519	3172	-705	242	-2083	C
ATOM	1519	CB	ASN	B	348	15.971	-13.938	-35.629	1.00	36.61		C
ANISOU	1519	CB	ASN	B	348	5999	4622	3290	-925	51	-2171	C
ATOM	1520	CG	ASN	B	348	15.795	-15.108	-36.571	1.00	39.61		C
ANISOU	1520	CG	ASN	B	348	6662	4895	3493	-1018	63	-2399	C
ATOM	1521	OD1	ASN	B	348	16.626	-16.016	-36.596	1.00	43.16		O
ANISOU	1521	OD1	ASN	B	348	7285	5163	3950	-910	232	-2509	O
ATOM	1522	ND2	ASN	B	348	14.725	-15.085	-37.373	1.00	40.71		N
ANISOU	1522	ND2	ASN	B	348	6855	5147	3464	-1211	-120	-2476	N
ATOM	1523	C	ASN	B	348	17.667	-12.572	-36.916	1.00	36.61		C
ANISOU	1523	C	ASN	B	348	5990	4852	3067	-687	255	-2062	C
ATOM	1524	O	ASN	B	348	17.122	-12.874	-37.983	1.00	38.05		O
ANISOU	1524	O	ASN	B	348	6341	5088	3030	-793	181	-2183	O
ATOM	1525	N	LEU	B	349	18.513	-11.541	-36.785	1.00	35.54		N
ANISOU	1525	N	LEU	B	349	5710	4822	2971	-566	347	-1905	N
ATOM	1526	CA	LEU	B	349	18.816	-10.526	-37.819	1.00	36.28		C
ANISOU	1526	CA	LEU	B	349	5813	5105	2868	-550	371	-1824	C
ATOM	1527	CB	LEU	B	349	19.731	-11.063	-38.920	1.00	38.60		C
ANISOU	1527	CB	LEU	B	349	6300	5411	2954	-470	564	-1949	C
ATOM	1528	CG	LEU	B	349	21.223	-11.340	-38.716	1.00	39.26		C
ANISOU	1528	CG	LEU	B	349	6348	5448	3121	-285	826	-1953	C
ATOM	1529	CD1	LEU	B	349	21.879	-11.427	-40.098	1.00	42.73		C
ANISOU	1529	CD1	LEU	B	349	6964	5987	3283	-234	995	-2038	C
ATOM	1530	CD2	LEU	B	349	21.941	-10.323	-37.866	1.00	36.33		C
ANISOU	1530	CD2	LEU	B	349	5719	5139	2944	-211	877	-1751	C
ATOM	1531	C	LEU	B	349	17.624	-9.803	-38.446	1.00	36.73		C
ANISOU	1531	C	LEU	B	349	5872	5311	2775	-684	152	-1771	C
ATOM	1532	O	LEU	B	349	17.698	-9.335	-39.579	1.00	38.72		O
ANISOU	1532	O	LEU	B	349	6228	5696	2787	-694	154	-1759	O
ATOM	1533	N	GLN	B	350	16.522	-9.716	-37.721	1.00	35.55		N
ANISOU	1533	N	GLN	B	350	5604	5147	2756	-777	-33	-1735	N
ATOM	1534	CA	GLN	B	350	15.386	-8.965	-38.230	1.00	36.17		C
ANISOU	1534	CA	GLN	B	350	5639	5385	2719	-874	-250	-1664	C
ATOM	1535	CB	GLN	B	350	14.078	-9.409	-37.570	1.00	35.38		C
ANISOU	1535	CB	GLN	B	350	5441	5259	2744	-1005	-437	-1706	C
ATOM	1536	CG	GLN	B	350	12.839	-8.730	-38.162	1.00	37.56		C
ANISOU	1536	CG	GLN	B	350	5649	5725	2896	-1094	-678	-1646	C
ATOM	1537	CD	GLN	B	350	11.541	-9.112	-37.450	1.00	37.75		C
ANISOU	1537	CD	GLN	B	350	5522	5756	3067	-1225	-850	-1674	C
ATOM	1538	OE1	GLN	B	350	11.541	-9.925	-36.534	1.00	37.89		O
ANISOU	1538	OE1	GLN	B	350	5514	5620	3264	-1269	-784	-1742	O
ATOM	1539	NE2	GLN	B	350	10.433	-8.514	-37.872	1.00	38.46		N
ANISOU	1539	NE2	GLN	B	350	5505	6031	3077	-1284	-1067	-1612	N
ATOM	1540	C	GLN	B	350	15.641	-7.495	-37.930	1.00	34.39		C
ANISOU	1540	C	GLN	B	350	5259	5249	2560	-786	-250	-1441	C
ATOM	1541	O	GLN	B	350	15.987	-7.132	-36.801	1.00	32.10		O
ANISOU	1541	O	GLN	B	350	4817	4883	2495	-722	-194	-1348	O

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Figure 18 (continued)

ATOM	1542	N	THR	B	351	15.480	-6.654	-38.937	1.00	35.51	
ANISOU	1542	N	THR	B	351	5460	5538	2492	-786	-314	-1357
ATOM	1543	CA	THR	B	351	15.638	-5.218	-38.753	1.00	35.15	
ANISOU	1543	CA	THR	B	351	5308	5556	2491	-715	-325	-1141
ATOM	1544	CB	THR	B	351	15.876	-4.493	-40.090	1.00	36.33	
ANISOU	1544	CB	THR	B	351	5605	5840	2357	-703	-319	-1061
ATOM	1545	OG1	THR	B	351	17.037	-5.035	-40.720	1.00	36.38	
ANISOU	1545	OG1	THR	B	351	5755	5831	2237	-677	-97	-1150
ATOM	1546	CG2	THR	B	351	16.109	-3.013	-39.855	1.00	35.19	
ANISOU	1546	CG2	THR	B	351	5379	5719	2273	-636	-312	-830
ATOM	1547	C	THR	B	351	14.428	-4.602	-38.066	1.00	34.79	
ANISOU	1547	C	THR	B	351	5095	5543	2579	-732	-530	-1043
ATOM	1548	O	THR	B	351	13.297	-4.781	-38.513	1.00	36.32	
ANISOU	1548	O	THR	B	351	5289	5835	2677	-804	-723	-1083
ATOM	1549	N	LEU	B	352	14.669	-3.878	-36.979	1.00	33.75	
ANISOU	1549	N	LEU	B	352	4817	5341	2667	-663	-487	-922
ATOM	1550	CA	LEU	B	352	13.622	-3.070	-36.344	1.00	34.12	
ANISOU	1550	CA	LEU	B	352	4710	5420	2832	-640	-648	-808
ATOM	1551	CB	LEU	B	352	13.362	-3.513	-34.889	1.00	32.44	
ANISOU	1551	CB	LEU	B	352	4345	5100	2881	-645	-632	-847
ATOM	1552	CG	LEU	B	352	12.886	-4.942	-34.597	1.00	32.96	
ANISOU	1552	CG	LEU	B	352	4408	5119	2994	-749	-654	-1020
ATOM	1553	CD1	LEU	B	352	12.818	-5.103	-33.090	1.00	32.72	
ANISOU	1553	CD1	LEU	B	352	4242	4977	3214	-731	-607	-1006
ATOM	1554	CD2	LEU	B	352	11.534	-5.282	-35.237	1.00	34.08	
ANISOU	1554	CD2	LEU	B	352	4529	5392	3028	-855	-857	-1081
ATOM	1555	C	LEU	B	352	13.996	-1.589	-36.370	1.00	33.77	
ANISOU	1555	C	LEU	B	352	4660	5383	2790	-547	-626	-610
ATOM	1556	O	LEU	B	352	15.095	-1.217	-35.983	1.00	33.03	
ANISOU	1556	O	LEU	B	352	4572	5204	2773	-512	-465	-558
ATOM	1557	N	LYS	B	353	13.074	-0.753	-36.832	1.00	35.44	
ANISOU	1557	N	LYS	B	353	4859	5692	2916	-511	-793	-499
ATOM	1558	CA	LYS	B	353	13.235	0.694	-36.758	1.00	35.60	
ANISOU	1558	CA	LYS	B	353	4887	5683	2957	-416	-792	-303
ATOM	1559	CB	LYS	B	353	12.510	1.355	-37.917	1.00	37.98	
ANISOU	1559	CB	LYS	B	353	5277	6118	3036	-378	-955	-195
ATOM	1560	CG	LYS	B	353	12.989	2.760	-38.252	1.00	40.38	
ANISOU	1560	CG	LYS	B	353	5690	6373	3280	-298	-911	12
ATOM	1561	CD	LYS	B	353	12.251	3.271	-39.513	1.00	47.52	
ANISOU	1561	CD	LYS	B	353	6709	7420	3925	-254	-1086	121
ATOM	1562	CE	LYS	B	353	13.174	4.063	-40.450	1.00	51.30	
ANISOU	1562	CE	LYS	B	353	7408	7878	4205	-253	-970	266
ATOM	1563	NZ	LYS	B	353	12.550	4.327	-41.795	1.00	55.38	
ANISOU	1563	NZ	LYS	B	353	8074	8553	4416	-224	-1134	354
ATOM	1564	C	LYS	B	353	12.636	1.177	-35.441	1.00	34.34	
ANISOU	1564	C	LYS	B	353	4557	5448	3042	-351	-841	-254
ATOM	1565	O	LYS	B	353	11.425	1.077	-35.231	1.00	34.90	
ANISOU	1565	O	LYS	B	353	4510	5595	3155	-331	-997	-267
ATOM	1566	N	ILE	B	354	13.478	1.693	-34.559	1.00	32.69	
ANISOU	1566	N	ILE	B	354	4329	5103	2987	-322	-706	-204
ATOM	1567	CA	ILE	B	354	13.045	2.177	-33.262	1.00	31.87	
ANISOU	1567	CA	ILE	B	354	4097	4914	3098	-258	-726	-169
ATOM	1568	CB	ILE	B	354	13.522	1.253	-32.057	1.00	29.83	
ANISOU	1568	CB	ILE	B	354	3748	4568	3018	-309	-619	-293
ATOM	1569	CG1	ILE	B	354	15.045	1.231	-31.936	1.00	29.97	
ANISOU	1569	CG1	ILE	B	354	3830	4502	3055	-342	-447	-296
ATOM	1570	CD1	ILE	B	354	15.560	0.674	-30.576	1.00	28.39	
ANISOU	1570	CD1	ILE	B	354	3540	4204	3043	-353	-362	-368
ATOM	1571	CG2	ILE	B	354	12.948	-0.182	-32.167	1.00	28.73	
ANISOU	1571	CG2	ILE	B	354	3563	4495	2859	-389	-663	-447
ATOM	1572	C	ILE	B	354	13.526	3.621	-33.042	1.00	32.17	
ANISOU	1572	C	ILE	B	354	4202	4845	3176	-186	-681	-10
ATOM	1573	O	ILE	B	354	14.521	4.069	-33.643	1.00	32.57	
ANISOU	1573	O	ILE	B	354	4377	4863	3134	-221	-582	57
ATOM	1574	N	ARG	B	355	12.815	4.352	-32.186	1.00	31.65	
ANISOU	1574	N	ARG	B	355	4061	4720	3243	-91	-742	48
ATOM	1575	CA	ARG	B	355	13.288	5.641	-31.749	1.00	32.09	
ANISOU	1575	CA	ARG	B	355	4195	4629	3367	-34	-689	170
ATOM	1576	CB	ARG	B	355	12.149	6.642	-31.605	1.00	34.12	
ANISOU	1576	CB	ARG	B	355	4439	4870	3656	122	-811	276
ATOM	1577	CG	ARG	B	355	11.544	7.019	-32.964	1.00	40.68	

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Figure 18 (continued)

ANISOU	1577	CG	ARG	B	355	5351	5813	4294	184	-940	384	C
ATOM	1578	CD	ARG	B	355	10.425	7.984	-32.784	1.00	49.99		C
ANISOU	1578	CD	ARG	B	355	6500	6978	5518	372	-1063	495	C
ATOM	1579	NE	ARG	B	355	9.347	7.782	-33.751	1.00	57.85		N
ANISOU	1579	NE	ARG	B	355	7438	8169	6374	442	-1246	533	N
ATOM	1580	CZ	ARG	B	355	8.140	8.351	-33.661	1.00	61.98		C
ANISOU	1580	CZ	ARG	B	355	7861	8751	6936	624	-1388	610	C
ATOM	1581	NH1	ARG	B	355	7.842	9.147	-32.628	1.00	61.47		N
ANISOU	1581	NH1	ARG	B	355	7761	8550	7045	765	-1346	648	N
ATOM	1582	NH2	ARG	B	355	7.220	8.116	-34.599	1.00	64.39		N
ANISOU	1582	NH2	ARG	B	355	8099	9264	7103	672	-1573	644	N
ATOM	1583	C	ARG	B	355	14.040	5.442	-30.452	1.00	29.39		C
ANISOU	1583	C	ARG	B	355	3795	4172	3199	-82	-573	96	C
ATOM	1584	O	ARG	B	355	13.448	5.166	-29.416	1.00	29.13		O
ANISOU	1584	O	ARG	B	355	3651	4123	3296	-44	-595	33	O
ATOM	1585	N	VAL	B	356	15.361	5.534	-30.531	1.00	27.06		N
ANISOU	1585	N	VAL	B	356	3568	3818	2896	-173	-448	106	N
ATOM	1586	CA	VAL	B	356	16.203	5.352	-29.374	1.00	24.71		C
ANISOU	1586	CA	VAL	B	356	3213	3431	2745	-225	-354	44	C
ATOM	1587	CB	VAL	B	356	17.660	4.989	-29.781	1.00	24.66		C
ANISOU	1587	CB	VAL	B	356	3228	3443	2701	-334	-221	27	C
ATOM	1588	CG1	VAL	B	356	18.584	4.978	-28.570	1.00	22.93		C
ANISOU	1588	CG1	VAL	B	356	2938	3141	2632	-383	-149	-14	C
ATOM	1589	CG2	VAL	B	356	17.691	3.637	-30.499	1.00	24.39		C
ANISOU	1589	CG2	VAL	B	356	3163	3532	2572	-358	-198	-77	C
ATOM	1590	C	VAL	B	356	16.195	6.627	-28.548	1.00	24.03		C
ANISOU	1590	C	VAL	B	356	3178	3194	2758	-182	-360	122	C
ATOM	1591	O	VAL	B	356	16.500	7.679	-29.070	1.00	25.01		O
ANISOU	1591	O	VAL	B	356	3429	3245	2830	-189	-348	238	O
ATOM	1592	N	HIS	B	357	15.853	6.512	-27.266	1.00	21.94		N
ANISOU	1592	N	HIS	B	357	2836	2873	2626	-144	-371	56	N
ATOM	1593	CA	HIS	B	357	15.871	7.643	-26.336	1.00	21.71		C
ANISOU	1593	CA	HIS	B	357	2873	2687	2689	-106	-368	97	C
ATOM	1594	CB	HIS	B	357	14.798	7.476	-25.251	1.00	20.79		C
ANISOU	1594	CB	HIS	B	357	2672	2563	2663	2	-412	33	C
ATOM	1595	CG	HIS	B	357	13.410	7.756	-25.737	1.00	21.75		C
ANISOU	1595	CG	HIS	B	357	2767	2747	2751	144	-503	82	C
ATOM	1596	ND1	HIS	B	357	12.706	8.884	-25.371	1.00	23.54		N
ANISOU	1596	ND1	HIS	B	357	3056	2871	3017	287	-534	145	N
ATOM	1597	CE1	HIS	B	357	11.530	8.882	-25.974	1.00	22.53		C
ANISOU	1597	CE1	HIS	B	357	2858	2853	2849	411	-626	188	C
ATOM	1598	NE2	HIS	B	357	11.450	7.797	-26.723	1.00	23.39		N
ANISOU	1598	NE2	HIS	B	357	2873	3128	2886	329	-662	148	N
ATOM	1599	CD2	HIS	B	357	12.613	7.077	-26.595	1.00	22.62		C
ANISOU	1599	CD2	HIS	B	357	2792	3016	2786	170	-577	78	C
ATOM	1600	C	HIS	B	357	17.247	7.801	-25.708	1.00	20.95		C
ANISOU	1600	C	HIS	B	357	2796	2511	2655	-232	-283	74	C
ATOM	1601	O	HIS	B	357	17.824	6.843	-25.188	1.00	18.76		O
ANISOU	1601	O	HIS	B	357	2417	2290	2421	-290	-244	-15	O
ATOM	1602	N	GLU	B	358	17.764	9.024	-25.773	1.00	21.60		N
ANISOU	1602	N	GLU	B	358	3009	2459	2740	-276	-262	161	N
ATOM	1603	CA	GLU	B	358	19.132	9.306	-25.328	1.00	21.12		C
ANISOU	1603	CA	GLU	B	358	2957	2337	2730	-429	-192	153	C
ATOM	1604	CB	GLU	B	358	19.907	9.942	-26.477	1.00	22.08		C
ANISOU	1604	CB	GLU	B	358	3175	2446	2769	-535	-131	268	C
ATOM	1605	CG	GLU	B	358	20.023	9.004	-27.665	1.00	22.15		C
ANISOU	1605	CG	GLU	B	358	3121	2631	2664	-539	-93	272	C
ATOM	1606	CD	GLU	B	358	20.615	9.629	-28.884	1.00	24.08		C
ANISOU	1606	CD	GLU	B	358	3477	2879	2794	-626	-23	397	C
ATOM	1607	OE1	GLU	B	358	20.524	10.875	-29.048	1.00	23.87		O
ANISOU	1607	OE1	GLU	B	358	3613	2702	2753	-643	-34	513	O
ATOM	1608	OE2	GLU	B	358	21.157	8.845	-29.705	1.00	25.65		O
ANISOU	1608	OE2	GLU	B	358	3616	3224	2907	-671	52	379	O
ATOM	1609	C	GLU	B	358	19.112	10.217	-24.111	1.00	21.14		C
ANISOU	1609	C	GLU	B	358	3040	2167	2824	-430	-215	132	C
ATOM	1610	O	GLU	B	358	18.544	11.303	-24.159	1.00	21.17		O
ANISOU	1610	O	GLU	B	358	3194	2027	2822	-362	-242	198	O
ATOM	1611	N	GLY	B	359	19.685	9.752	-23.008	1.00	20.16		N
ANISOU	1611	N	GLY	B	359	2830	2055	2773	-490	-208	36	N
ATOM	1612	CA	GLY	B	359	19.778	10.572	-21.819	1.00	20.57		C
ANISOU	1612	CA	GLY	B	359	2974	1953	2890	-512	-231	-3	C

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Figure 18 (continued)

ATOM	1613	C	GLY	B	359	19.326	9.821	-20.596	1.00	19.73	C	
ANISOU	1613	C	GLY	B	359	2783	1889	2826	-437	-258	-113	C
ATOM	1614	O	GLY	B	359	18.499	8.922	-20.689	1.00	19.63	O	
ANISOU	1614	O	GLY	B	359	2676	1982	2800	-330	-265	-142	O
ATOM	1615	N	TYR	B	360	19.863	10.218	-19.445	1.00	19.73	N	
ANISOU	1615	N	TYR	B	360	2828	1801	2865	-508	-274	-174	N
ATOM	1616	CA	TYR	B	360	19.483	9.673	-18.153	1.00	18.62	C	
ANISOU	1616	CA	TYR	B	360	2650	1681	2744	-445	-296	-271	C
ATOM	1617	CB	TYR	B	360	20.482	10.115	-17.053	1.00	19.15	C	
ANISOU	1617	CB	TYR	B	360	2770	1677	2830	-579	-329	-331	C
ATOM	1618	CG	TYR	B	360	19.942	9.873	-15.646	1.00	18.18	C	
ANISOU	1618	CG	TYR	B	360	2679	1534	2694	-499	-350	-425	C
ATOM	1619	CD1	TYR	B	360	19.945	8.585	-15.104	1.00	16.45	C	
ANISOU	1619	CD1	TYR	B	360	2326	1457	2469	-465	-354	-465	C
ATOM	1620	CE1	TYR	B	360	19.438	8.342	-13.850	1.00	19.36	C	
ANISOU	1620	CE1	TYR	B	360	2735	1814	2805	-398	-359	-536	C
ATOM	1621	CZ	TYR	B	360	18.885	9.395	-13.126	1.00	19.45	C	
ANISOU	1621	CZ	TYR	B	360	2920	1679	2790	-350	-353	-585	C
ATOM	1622	OH	TYR	B	360	18.382	9.138	-11.873	1.00	18.88	O	
ANISOU	1622	OH	TYR	B	360	2897	1608	2666	-282	-339	-658	O
ATOM	1623	CE2	TYR	B	360	18.840	10.677	-13.657	1.00	18.02	C	
ANISOU	1623	CE2	TYR	B	360	2881	1343	2625	-365	-349	-557	C
ATOM	1624	CD2	TYR	B	360	19.353	10.902	-14.916	1.00	17.40	C	
ANISOU	1624	CD2	TYR	B	360	2762	1269	2579	-442	-351	-469	C
ATOM	1625	C	TYR	B	360	18.049	10.089	-17.759	1.00	19.14	C	
ANISOU	1625	C	TYR	B	360	2798	1672	2803	-267	-294	-288	C
ATOM	1626	O	TYR	B	360	17.680	11.247	-17.870	1.00	21.05	O	
ANISOU	1626	O	TYR	B	360	3194	1761	3044	-218	-294	-255	O
ATOM	1627	N	GLU	B	361	17.263	9.137	-17.275	1.00	18.20	N	
ANISOU	1627	N	GLU	B	361	2574	1657	2683	-169	-284	-337	N
ATOM	1628	CA	GLU	B	361	15.899	9.416	-16.844	1.00	19.16	C	
ANISOU	1628	CA	GLU	B	361	2724	1749	2806	0	-265	-357	C
ATOM	1629	CB	GLU	B	361	14.901	9.154	-17.981	1.00	18.69	C	
ANISOU	1629	CB	GLU	B	361	2575	1784	2741	107	-272	-291	C
ATOM	1630	CG	GLU	B	361	14.816	10.226	-19.056	1.00	20.04	C	
ANISOU	1630	CG	GLU	B	361	2852	1865	2895	146	-296	-193	C
ATOM	1631	CD	GLU	B	361	13.917	9.795	-20.203	1.00	22.31	C	
ANISOU	1631	CD	GLU	B	361	3033	2288	3154	236	-330	-129	C
ATOM	1632	OE1	GLU	B	361	14.066	8.623	-20.652	1.00	20.60	O	
ANISOU	1632	OE1	GLU	B	361	2685	2224	2919	163	-336	-149	O
ATOM	1633	OE2	GLU	B	361	13.064	10.618	-20.659	1.00	23.98	O	
ANISOU	1633	OE2	GLU	B	361	3300	2452	3359	383	-357	-61	O
ATOM	1634	C	GLU	B	361	15.557	8.512	-15.689	1.00	17.64	C	
ANISOU	1634	C	GLU	B	361	2458	1633	2612	27	-240	-437	C
ATOM	1635	O	GLU	B	361	15.996	7.369	-15.651	1.00	17.76	O	
ANISOU	1635	O	GLU	B	361	2363	1760	2626	-43	-244	-451	O
ATOM	1636	N	GLU	B	362	14.776	9.020	-14.758	1.00	18.34	N	
ANISOU	1636	N	GLU	B	362	2620	1655	2692	137	-205	-484	N
ATOM	1637	CA	GLU	B	362	14.217	8.208	-13.690	1.00	18.97	C	
ANISOU	1637	CA	GLU	B	362	2638	1816	2755	180	-158	-546	C
ATOM	1638	CB	GLU	B	362	14.698	8.683	-12.317	1.00	18.78	C	
ANISOU	1638	CB	GLU	B	362	2764	1691	2682	150	-150	-626	C
ATOM	1639	CG	GLU	B	362	14.269	7.780	-11.129	1.00	19.81	C	
ANISOU	1639	CG	GLU	B	362	2854	1908	2765	175	-96	-679	C
ATOM	1640	CD	GLU	B	362	14.658	8.416	-9.769	1.00	23.89	C	
ANISOU	1640	CD	GLU	B	362	3556	2321	3202	160	-92	-765	C
ATOM	1641	OE1	GLU	B	362	15.700	8.061	-9.173	1.00	27.64	O	
ANISOU	1641	OE1	GLU	B	362	4065	2806	3630	38	-156	-790	O
ATOM	1642	OE2	GLU	B	362	13.946	9.338	-9.332	1.00	31.97	O	
ANISOU	1642	OE2	GLU	B	362	4699	3247	4203	278	-32	-811	O
ATOM	1643	C	GLU	B	362	12.692	8.261	-13.751	1.00	19.33	C	
ANISOU	1643	C	GLU	B	362	2608	1916	2818	350	-102	-537	C
ATOM	1644	O	GLU	B	362	12.130	9.347	-13.924	1.00	21.05	O	
ANISOU	1644	O	GLU	B	362	2908	2040	3049	476	-89	-521	O
ATOM	1645	N	PHE	B	363	12.053	7.096	-13.591	1.00	18.10	N	
ANISOU	1645	N	PHE	B	363	2298	1909	2669	352	-67	-544	N
ATOM	1646	CA	PHE	B	363	10.603	6.935	-13.598	1.00	19.56	C	
ANISOU	1646	CA	PHE	B	363	2355	2196	2881	481	-10	-536	C
ATOM	1647	CB	PHE	B	363	10.160	6.097	-14.830	1.00	18.76	C	
ANISOU	1647	CB	PHE	B	363	2078	2239	2813	443	-60	-483	C
ATOM	1648	CG	PHE	B	363	10.538	6.710	-16.149	1.00	20.16	C	

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Figure 18 (continued)

ANISOU	1648	CG	PHE	B	363	2290	2378	2990	445	-145	-419	C
ATOM	1649	CD1	PHE	B	363	9.671	7.585	-16.786	1.00	20.57		C
ANISOU	1649	CD1	PHE	B	363	2324	2434	3060	595	-170	-365	C
ATOM	1650	CE1	PHE	B	363	10.005	8.145	-17.991	1.00	22.34		C
ANISOU	1650	CE1	PHE	B	363	2603	2620	3264	598	-247	-290	C
ATOM	1651	CZ	PHE	B	363	11.229	7.855	-18.587	1.00	17.85		C
ANISOU	1651	CZ	PHE	B	363	2100	2021	2662	440	-280	-275	C
ATOM	1652	CE2	PHE	B	363	12.100	6.988	-17.975	1.00	18.88		C
ANISOU	1652	CE2	PHE	B	363	2224	2160	2789	301	-251	-336	C
ATOM	1653	CD2	PHE	B	363	11.761	6.407	-16.760	1.00	18.78		C
ANISOU	1653	CD2	PHE	B	363	2166	2175	2793	306	-193	-403	C
ATOM	1654	C	PHE	B	363	10.104	6.182	-12.366	1.00	19.99		C
ANISOU	1654	C	PHE	B	363	2365	2319	2910	480	83	-588	C
ATOM	1655	O	PHE	B	363	10.813	5.318	-11.820	1.00	19.21		O
ANISOU	1655	O	PHE	B	363	2290	2232	2778	360	82	-608	O
ATOM	1656	N	THR	B	364	8.874	6.490	-11.950	1.00	21.40		N
ANISOU	1656	N	THR	B	364	2475	2551	3103	622	169	-600	N
ATOM	1657	CA	THR	B	364	8.094	5.540	-11.194	1.00	22.37		C
ANISOU	1657	CA	THR	B	364	2478	2803	3219	605	268	-619	C
ATOM	1658	CB	THR	B	364	7.228	6.189	-10.082	1.00	24.65		C
ANISOU	1658	CB	THR	B	364	2799	3088	3478	761	405	-666	C
ATOM	1659	OG1	THR	B	364	6.244	7.069	-10.672	1.00	29.54		O
ANISOU	1659	OG1	THR	B	364	3325	3737	4161	950	417	-641	O
ATOM	1660	CG2	THR	B	364	8.077	6.917	-9.090	1.00	20.46		C
ANISOU	1660	CG2	THR	B	364	2522	2392	2860	769	420	-732	C
ATOM	1661	C	THR	B	364	7.200	4.826	-12.190	1.00	23.57		C
ANISOU	1661	C	THR	B	364	2398	3119	3440	586	242	-570	C
ATOM	1662	O	THR	B	364	6.734	5.447	-13.162	1.00	24.92		O
ANISOU	1662	O	THR	B	364	2497	3317	3654	681	180	-530	O
ATOM	1663	N	MSE	B	365	6.990	3.527	-11.962	1.00	23.51		N
ANISOU	1663	N	MSE	B	365	2289	3210	3433	455	278	-570	N
ATOM	1664	CA	MSE	B	365	6.070	2.707	-12.758	1.00	25.28		C
ANISOU	1664	CA	MSE	B	365	2293	3596	3716	395	258	-541	C
ATOM	1665	CB	MSE	B	365	6.777	1.479	-13.354	1.00	23.17		C
ANISOU	1665	CB	MSE	B	365	2037	3323	3443	205	188	-537	C
ATOM	1666	CG	MSE	B	365	7.959	1.767	-14.260	1.00	23.72		C
ANISOU	1666	CG	MSE	B	365	2224	3295	3494	180	74	-527	C
ATOM	1667	SE	MSE	B	365	9.006	0.180	-14.677	0.90	24.85		SE
ANISOU	1667	SE	MSE	B	365	2418	3405	3619	-17	33	-540	SE
ATOM	1668	CE	MSE	B	365	7.640	-1.058	-15.246	1.00	20.54		C
ANISOU	1668	CE	MSE	B	365	1672	3014	3117	-135	41	-548	C
ATOM	1669	C	MSE	B	365	4.961	2.217	-11.835	1.00	26.07		C
ANISOU	1669	C	MSE	B	365	2259	3817	3829	397	400	-552	C
ATOM	1670	O	MSE	B	365	5.252	1.610	-10.808	1.00	25.95		O
ANISOU	1670	O	MSE	B	365	2332	3765	3763	319	488	-569	O
ATOM	1671	N	VAL	B	366	3.699	2.486	-12.183	1.00	27.59		N
ANISOU	1671	N	VAL	B	366	2234	4164	4084	489	424	-533	N
ATOM	1672	CA	VAL	B	366	2.565	2.042	-11.348	1.00	29.18		C
ANISOU	1672	CA	VAL	B	366	2265	4513	4308	484	578	-537	C
ATOM	1673	CB	VAL	B	366	1.807	3.257	-10.708	1.00	31.18		C
ANISOU	1673	CB	VAL	B	366	2482	4797	4568	737	692	-550	C
ATOM	1674	CG1	VAL	B	366	0.547	2.816	-9.890	1.00	31.65		C
ANISOU	1674	CG1	VAL	B	366	2322	5048	4655	741	877	-550	C
ATOM	1675	CG2	VAL	B	366	2.757	4.071	-9.830	1.00	29.76		C
ANISOU	1675	CG2	VAL	B	366	2601	4409	4296	827	734	-597	C
ATOM	1676	C	VAL	B	366	1.630	1.113	-12.138	1.00	30.40		C
ANISOU	1676	C	VAL	B	366	2151	4861	4538	349	536	-511	C
ATOM	1677	O	VAL	B	366	1.042	1.529	-13.138	1.00	31.27		O
ANISOU	1677	O	VAL	B	366	2097	5082	4703	424	432	-486	O
ATOM	1678	N	GLY	B	367	1.533	-0.147	-11.709	1.00	30.76		N
ANISOU	1678	N	GLY	B	367	2170	4939	4578	139	604	-513	N
ATOM	1679	CA	GLY	B	367	0.588	-1.110	-12.303	1.00	32.91		C
ANISOU	1679	CA	GLY	B	367	2196	5388	4921	-34	581	-500	C
ATOM	1680	C	GLY	B	367	-0.498	-1.517	-11.325	1.00	35.94		C
ANISOU	1680	C	GLY	B	367	2401	5920	5333	-85	771	-488	C
ATOM	1681	O	GLY	B	367	-0.558	-0.986	-10.220	1.00	37.15		O
ANISOU	1681	O	GLY	B	367	2625	6048	5442	44	925	-491	O
ATOM	1682	N	LYS	B	368	-1.356	-2.458	-11.722	1.00	37.73		N
ANISOU	1682	N	LYS	B	368	2403	6306	5626	-285	766	-478	N
ATOM	1683	CA	LYS	B	368	-2.392	-2.977	-10.842	1.00	40.82		C
ANISOU	1683	CA	LYS	B	368	2606	6852	6051	-385	959	-457	C

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Figure 18 (continued)

ATOM	1684	CB	LYS	B	368	-3.379	-3.863	-11.614	1.00	43.14		C
ANISOU	1684	CB	LYS	B	368	2608	7343	6439	-618	896	-451	C
ATOM	1685	CG	LYS	B	368	-4.224	-3.164	-12.650	1.00	46.39		C
ANISOU	1685	CG	LYS	B	368	2718	7976	6933	-496	753	-448	C
ATOM	1686	CD	LYS	B	368	-5.098	-4.196	-13.325	1.00	53.87		C
ANISOU	1686	CD	LYS	B	368	3403	9110	7957	-784	679	-454	C
ATOM	1687	CE	LYS	B	368	-5.442	-3.835	-14.770	1.00	56.62		C
ANISOU	1687	CE	LYS	B	368	3572	9602	8340	-740	427	-464	C
ATOM	1688	NZ	LYS	B	368	-6.644	-4.642	-15.228	1.00	62.56		N
ANISOU	1688	NZ	LYS	B	368	3968	10621	9180	-997	377	-470	N
ATOM	1689	C	LYS	B	368	-1.811	-3.784	-9.679	1.00	40.22		C
ANISOU	1689	C	LYS	B	368	2770	6621	5891	-521	1112	-444	C
ATOM	1690	O	LYS	B	368	-2.325	-3.708	-8.559	1.00	41.54		O
ANISOU	1690	O	LYS	B	368	2901	6854	6028	-488	1318	-424	O
ATOM	1691	N	ARG	B	369	-0.739	-4.539	-9.950	1.00	38.40		N
ANISOU	1691	N	ARG	B	369	2787	6190	5615	-656	1015	-452	N
ATOM	1692	CA	ARG	B	369	-0.231	-5.556	-9.020	1.00	38.59		C
ANISOU	1692	CA	ARG	B	369	3028	6068	5567	-815	1127	-423	C
ATOM	1693	CB	ARG	B	369	-0.483	-6.952	-9.606	1.00	39.39		C
ANISOU	1693	CB	ARG	B	369	3090	6155	5723	-1113	1085	-417	C
ATOM	1694	CG	ARG	B	369	-1.889	-7.506	-9.367	1.00	43.61		C
ANISOU	1694	CG	ARG	B	369	3344	6893	6331	-1301	1219	-390	C
ATOM	1695	CD	ARG	B	369	-2.166	-8.798	-10.162	1.00	45.50		C
ANISOU	1695	CD	ARG	B	369	3542	7112	6635	-1617	1138	-405	C
ATOM	1696	NE	ARG	B	369	-2.734	-8.513	-11.485	1.00	50.50		N
ANISOU	1696	NE	ARG	B	369	3925	7913	7351	-1634	956	-457	N
ATOM	1697	CZ	ARG	B	369	-2.076	-8.625	-12.642	1.00	51.55		C
ANISOU	1697	CZ	ARG	B	369	4162	7949	7474	-1642	750	-512	C
ATOM	1698	NH1	ARG	B	369	-0.809	-9.053	-12.673	1.00	49.87		N
ANISOU	1698	NH1	ARG	B	369	4281	7475	7191	-1634	707	-525	N
ATOM	1699	NH2	ARG	B	369	-2.696	-8.327	-13.783	1.00	52.31		N
ANISOU	1699	NH2	ARG	B	369	4025	8226	7624	-1654	588	-550	N
ATOM	1700	C	ARG	B	369	1.251	-5.377	-8.622	1.00	35.98		C
ANISOU	1700	C	ARG	B	369	3036	5502	5132	-717	1074	-428	C
ATOM	1701	O	ARG	B	369	1.835	-6.216	-7.915	1.00	36.25		O
ANISOU	1701	O	ARG	B	369	3277	5399	5097	-821	1132	-395	O
ATOM	1702	N	ALA	B	370	1.852	-4.282	-9.083	1.00	33.63		N
ANISOU	1702	N	ALA	B	370	2790	5164	4825	-519	958	-462	N
ATOM	1703	CA	ALA	B	370	3.242	-3.951	-8.791	1.00	31.07		C
ANISOU	1703	CA	ALA	B	370	2741	4650	4415	-426	890	-472	C
ATOM	1704	CB	ALA	B	370	4.209	-4.861	-9.590	1.00	29.47		C
ANISOU	1704	CB	ALA	B	370	2663	4314	4222	-553	754	-475	C
ATOM	1705	C	ALA	B	370	3.536	-2.485	-9.087	1.00	30.13		C
ANISOU	1705	C	ALA	B	370	2633	4522	4291	-205	816	-506	C
ATOM	1706	O	ALA	B	370	2.837	-1.834	-9.869	1.00	30.45		O
ANISOU	1706	O	ALA	B	370	2489	4676	4403	-120	767	-516	O
ATOM	1707	N	THR	B	371	4.577	-1.968	-8.447	1.00	29.21		N
ANISOU	1707	N	THR	B	371	2743	4267	4088	-115	802	-520	N
ATOM	1708	CA	THR	B	371	5.070	-0.623	-8.712	1.00	28.42		C
ANISOU	1708	CA	THR	B	371	2713	4108	3978	60	723	-553	C
ATOM	1709	CB	THR	B	371	4.594	0.442	-7.657	1.00	29.87		C
ANISOU	1709	CB	THR	B	371	2940	4307	4103	233	854	-584	C
ATOM	1710	OG1	THR	B	371	5.182	0.139	-6.396	1.00	31.90		O
ANISOU	1710	OG1	THR	B	371	3400	4485	4238	197	929	-590	O
ATOM	1711	CG2	THR	B	371	3.077	0.486	-7.506	1.00	29.41		C
ANISOU	1711	CG2	THR	B	371	2640	4434	4101	284	995	-575	C
ATOM	1712	C	THR	B	371	6.587	-0.709	-8.730	1.00	26.74		C
ANISOU	1712	C	THR	B	371	2715	3734	3710	26	611	-559	C
ATOM	1713	O	THR	B	371	7.167	-1.696	-8.278	1.00	27.73		O
ANISOU	1713	O	THR	B	371	2942	3802	3791	-84	618	-537	O
ATOM	1714	N	ALA	B	372	7.245	0.306	-9.262	1.00	24.71		N
ANISOU	1714	N	ALA	B	372	2524	3405	3458	120	509	-581	N
ATOM	1715	CA	ALA	B	372	8.691	0.260	-9.366	1.00	22.74		C
ANISOU	1715	CA	ALA	B	372	2435	3033	3172	78	402	-584	C
ATOM	1716	CB	ALA	B	372	9.123	-0.612	-10.575	1.00	20.88		C
ANISOU	1716	CB	ALA	B	372	2138	2802	2995	-29	305	-563	C
ATOM	1717	C	ALA	B	372	9.313	1.651	-9.455	1.00	21.47		C
ANISOU	1717	C	ALA	B	372	2381	2784	2993	183	338	-614	C
ATOM	1718	O	ALA	B	372	8.644	2.637	-9.767	1.00	22.51		O
ANISOU	1718	O	ALA	B	372	2465	2931	3157	299	353	-625	O
ATOM	1719	N	ILE	B	373	10.596	1.712	-9.160	1.00	20.23		N

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Figure 18 (continued)

ANISOU	1719	N	ILE	B	373	2368	2532	2787	140	265	-623	N
ATOM	1720	CA	ILE	B	373	11.406	2.858	-9.509	1.00	20.10		C
ANISOU	1720	CA	ILE	B	373	2445	2422	2770	176	179	-644	C
ATOM	1721	CB	ILE	B	373	12.105	3.494	-8.281	1.00	20.66		C
ANISOU	1721	CB	ILE	B	373	2702	2404	2743	188	175	-692	C
ATOM	1722	CG1	ILE	B	373	11.114	3.705	-7.131	1.00	21.48		C
ANISOU	1722	CG1	ILE	B	373	2853	2532	2776	274	308	-730	C
ATOM	1723	CD1	ILE	B	373	11.724	4.339	-5.870	1.00	23.57		C
ANISOU	1723	CD1	ILE	B	373	3331	2712	2913	284	306	-794	C
ATOM	1724	CG2	ILE	B	373	12.777	4.814	-8.687	1.00	20.73		C
ANISOU	1724	CG2	ILE	B	373	2810	2302	2764	207	96	-719	C
ATOM	1725	C	ILE	B	373	12.440	2.357	-10.494	1.00	18.98		C
ANISOU	1725	C	ILE	B	373	2275	2270	2668	84	75	-613	C
ATOM	1726	O	ILE	B	373	13.084	1.346	-10.229	1.00	18.45		O
ANISOU	1726	O	ILE	B	373	2219	2210	2582	9	57	-599	O
ATOM	1727	N	LEU	B	374	12.551	3.049	-11.633	1.00	19.11		N
ANISOU	1727	N	LEU	B	374	2259	2268	2733	102	18	-597	N
ATOM	1728	CA	LEU	B	374	13.487	2.723	-12.716	1.00	17.96		C
ANISOU	1728	CA	LEU	B	374	2084	2123	2617	26	-60	-569	C
ATOM	1729	CB	LEU	B	374	12.712	2.403	-14.002	1.00	17.80		C
ANISOU	1729	CB	LEU	B	374	1942	2182	2641	33	-70	-541	C
ATOM	1730	CG	LEU	B	374	13.468	2.237	-15.313	1.00	17.37		C
ANISOU	1730	CG	LEU	B	374	1867	2137	2597	-24	-132	-516	C
ATOM	1731	CD1	LEU	B	374	14.387	1.025	-15.269	1.00	16.31		C
ANISOU	1731	CD1	LEU	B	374	1730	2011	2458	-107	-135	-527	C
ATOM	1732	CD2	LEU	B	374	12.488	2.104	-16.488	1.00	19.06		C
ANISOU	1732	CD2	LEU	B	374	1980	2438	2824	-4	-153	-495	C
ATOM	1733	C	LEU	B	374	14.409	3.901	-12.991	1.00	18.14		C
ANISOU	1733	C	LEU	B	374	2200	2055	2636	17	-119	-567	C
ATOM	1734	O	LEU	B	374	13.919	5.035	-13.178	1.00	17.76		O
ANISOU	1734	O	LEU	B	374	2202	1951	2595	91	-114	-565	O
ATOM	1735	N	ARG	B	375	15.721	3.625	-12.989	1.00	16.95		N
ANISOU	1735	N	ARG	B	375	2072	1891	2478	-71	-171	-564	N
ATOM	1736	CA	ARG	B	375	16.705	4.489	-13.602	1.00	17.47		C
ANISOU	1736	CA	ARG	B	375	2179	1903	2558	-127	-225	-546	C
ATOM	1737	CB	ARG	B	375	17.892	4.764	-12.677	1.00	18.12		C
ANISOU	1737	CB	ARG	B	375	2329	1943	2611	-204	-277	-574	C
ATOM	1738	CG	ARG	B	375	17.604	5.831	-11.648	1.00	18.30		C
ANISOU	1738	CG	ARG	B	375	2500	1865	2590	-178	-276	-625	C
ATOM	1739	CD	ARG	B	375	18.705	5.872	-10.626	1.00	17.52		C
ANISOU	1739	CD	ARG	B	375	2459	1755	2442	-267	-347	-663	C
ATOM	1740	NE	ARG	B	375	18.396	6.839	-9.574	1.00	20.93		N
ANISOU	1740	NE	ARG	B	375	3063	2084	2807	-248	-345	-733	N
ATOM	1741	CZ	ARG	B	375	18.996	6.901	-8.392	1.00	22.13		C
ANISOU	1741	CZ	ARG	B	375	3304	2227	2876	-303	-404	-787	C
ATOM	1742	NH1	ARG	B	375	19.955	6.037	-8.075	1.00	23.45		N
ANISOU	1742	NH1	ARG	B	375	3389	2494	3028	-370	-480	-765	N
ATOM	1743	NH2	ARG	B	375	18.629	7.827	-7.528	1.00	24.29		N
ANISOU	1743	NH2	ARG	B	375	3760	2394	3076	-279	-390	-865	N
ATOM	1744	C	ARG	B	375	17.209	3.921	-14.913	1.00	17.41		C
ANISOU	1744	C	ARG	B	375	2079	1958	2578	-175	-238	-505	C
ATOM	1745	O	ARG	B	375	17.554	2.747	-15.016	1.00	17.68		O
ANISOU	1745	O	ARG	B	375	2043	2057	2618	-198	-232	-507	O
ATOM	1746	N	LYS	B	376	17.327	4.788	-15.899	1.00	17.92		N
ANISOU	1746	N	LYS	B	376	2167	1990	2651	-187	-251	-466	N
ATOM	1747	CA	LYS	B	376	17.635	4.368	-17.233	1.00	18.44		C
ANISOU	1747	CA	LYS	B	376	2166	2121	2718	-219	-249	-427	C
ATOM	1748	CB	LYS	B	376	16.313	4.249	-17.956	1.00	19.30		C
ANISOU	1748	CB	LYS	B	376	2242	2274	2816	-141	-242	-411	C
ATOM	1749	CG	LYS	B	376	16.410	4.111	-19.385	1.00	24.35		C
ANISOU	1749	CG	LYS	B	376	2854	2971	3426	-163	-251	-371	C
ATOM	1750	CD	LYS	B	376	15.233	4.725	-20.053	1.00	25.52		C
ANISOU	1750	CD	LYS	B	376	3010	3132	3554	-79	-279	-330	C
ATOM	1751	CE	LYS	B	376	15.262	4.220	-21.479	1.00	24.91		C
ANISOU	1751	CE	LYS	B	376	2899	3145	3419	-111	-296	-304	C
ATOM	1752	NZ	LYS	B	376	16.403	4.826	-22.153	1.00	24.23		N
ANISOU	1752	NZ	LYS	B	376	2885	3021	3302	-176	-279	-252	N
ATOM	1753	C	LYS	B	376	18.551	5.421	-17.892	1.00	18.68		C
ANISOU	1753	C	LYS	B	376	2253	2098	2746	-293	-262	-380	C
ATOM	1754	O	LYS	B	376	18.550	6.582	-17.503	1.00	19.26		O
ANISOU	1754	O	LYS	B	376	2432	2063	2823	-300	-277	-372	O

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Figure 18 (continued)

ATOM	1755	N	ALA	B	377	19.344	5.004	-18.873	1.00	18.41	N	
ANISOU	1755	N	ALA	B	377	2158	2132	2704	-354	-244	-351	N
ATOM	1756	CA	ALA	B	377	20.187	5.927	-19.633	1.00	19.30	C	
ANISOU	1756	CA	ALA	B	377	2313	2213	2809	-443	-234	-292	C
ATOM	1757	CB	ALA	B	377	21.642	5.877	-19.139	1.00	18.88	C	
ANISOU	1757	CB	ALA	B	377	2200	2184	2791	-557	-236	-304	C
ATOM	1758	C	ALA	B	377	20.043	5.447	-21.070	1.00	19.24	C	
ANISOU	1758	C	ALA	B	377	2269	2292	2751	-429	-199	-253	C
ATOM	1759	O	ALA	B	377	19.145	4.641	-21.328	1.00	18.97	O	
ANISOU	1759	O	ALA	B	377	2199	2314	2694	-354	-205	-280	O
ATOM	1760	N	THR	B	378	20.885	5.930	-21.991	1.00	19.58	N	
ANISOU	1760	N	THR	B	378	2326	2348	2766	-514	-160	-192	N
ATOM	1761	CA	THR	B	378	20.812	5.546	-23.409	1.00	19.32	C	
ANISOU	1761	CA	THR	B	378	2285	2401	2653	-506	-118	-155	C
ATOM	1762	CB	THR	B	378	21.861	6.284	-24.233	1.00	20.34	C	
ANISOU	1762	CB	THR	B	378	2444	2534	2751	-620	-56	-76	C
ATOM	1763	OG1	THR	B	378	21.768	7.684	-23.973	1.00	20.74	O	
ANISOU	1763	OG1	THR	B	378	2618	2442	2819	-665	-85	-11	O
ATOM	1764	CG2	THR	B	378	21.664	6.025	-25.717	1.00	20.00	C	
ANISOU	1764	CG2	THR	B	378	2433	2574	2591	-603	-11	-31	C
ATOM	1765	C	THR	B	378	21.001	4.033	-23.613	1.00	19.30	C	
ANISOU	1765	C	THR	B	378	2178	2513	2641	-474	-84	-227	C
ATOM	1766	O	THR	B	378	22.120	3.502	-23.476	1.00	19.32	O	
ANISOU	1766	O	THR	B	378	2096	2570	2676	-516	-33	-250	O
ATOM	1767	N	ARG	B	379	19.914	3.359	-23.968	1.00	18.79	N	
ANISOU	1767	N	ARG	B	379	2122	2483	2535	-401	-113	-261	N
ATOM	1768	CA	ARG	B	379	19.921	1.918	-24.208	1.00	19.22	C	
ANISOU	1768	CA	ARG	B	379	2121	2610	2572	-377	-84	-338	C
ATOM	1769	CB	ARG	B	379	20.587	1.584	-25.568	1.00	20.01	C	
ANISOU	1769	CB	ARG	B	379	2232	2791	2579	-405	-10	-331	C
ATOM	1770	CG	ARG	B	379	19.959	2.282	-26.762	1.00	21.05	C	
ANISOU	1770	CG	ARG	B	379	2454	2950	2595	-411	-34	-267	C
ATOM	1771	CD	ARG	B	379	20.376	1.641	-28.060	1.00	20.86	C	
ANISOU	1771	CD	ARG	B	379	2459	3018	2448	-427	38	-291	C
ATOM	1772	NE	ARG	B	379	19.805	0.291	-28.188	1.00	21.07	N	
ANISOU	1772	NE	ARG	B	379	2478	3077	2449	-392	21	-402	N
ATOM	1773	CZ	ARG	B	379	20.169	-0.608	-29.110	1.00	21.75	C	
ANISOU	1773	CZ	ARG	B	379	2601	3225	2438	-392	91	-469	C
ATOM	1774	NH1	ARG	B	379	21.092	-0.337	-30.021	1.00	20.29	N	
ANISOU	1774	NH1	ARG	B	379	2446	3100	2163	-415	195	-434	N
ATOM	1775	NH2	ARG	B	379	19.594	-1.797	-29.126	1.00	22.67	N	
ANISOU	1775	NH2	ARG	B	379	2735	3336	2542	-377	67	-576	N
ATOM	1776	C	ARG	B	379	20.589	1.159	-23.045	1.00	19.24	C	
ANISOU	1776	C	ARG	B	379	2052	2596	2663	-368	-69	-390	C
ATOM	1777	O	ARG	B	379	21.432	0.291	-23.257	1.00	18.60	O	
ANISOU	1777	O	ARG	B	379	1921	2560	2586	-362	-11	-424	O
ATOM	1778	N	ARG	B	380	20.187	1.503	-21.816	1.00	20.13	N	
ANISOU	1778	N	ARG	B	380	2170	2643	2835	-353	-120	-395	N
ATOM	1779	CA	ARG	B	380	20.790	0.946	-20.598	1.00	20.31	C	
ANISOU	1779	CA	ARG	B	380	2146	2650	2921	-343	-125	-427	C
ATOM	1780	CB	ARG	B	380	22.100	1.697	-20.262	1.00	21.34	C	
ANISOU	1780	CB	ARG	B	380	2237	2785	3086	-409	-126	-393	C
ATOM	1781	CG	ARG	B	380	22.872	1.156	-19.087	1.00	24.13	C	
ANISOU	1781	CG	ARG	B	380	2528	3150	3490	-396	-155	-417	C
ATOM	1782	CD	ARG	B	380	24.060	2.071	-18.796	1.00	33.52	C	
ANISOU	1782	CD	ARG	B	380	3664	4360	4713	-492	-179	-385	C
ATOM	1783	NE	ARG	B	380	24.427	2.050	-17.376	1.00	40.26	N	
ANISOU	1783	NE	ARG	B	380	4504	5201	5593	-496	-257	-405	N
ATOM	1784	CZ	ARG	B	380	25.066	3.030	-16.744	1.00	41.26	C	
ANISOU	1784	CZ	ARG	B	380	4631	5311	5736	-597	-318	-398	C
ATOM	1785	NH1	ARG	B	380	25.427	4.118	-17.419	1.00	44.00	N	
ANISOU	1785	NH1	ARG	B	380	4992	5636	6088	-711	-298	-363	N
ATOM	1786	NH2	ARG	B	380	25.345	2.919	-15.441	1.00	40.13	N	
ANISOU	1786	NH2	ARG	B	380	4489	5166	5591	-596	-403	-425	N
ATOM	1787	C	ARG	B	380	19.822	1.058	-19.448	1.00	18.92	C	
ANISOU	1787	C	ARG	B	380	2007	2415	2767	-309	-171	-445	C
ATOM	1788	O	ARG	B	380	19.320	2.129	-19.164	1.00	19.53	O	
ANISOU	1788	O	ARG	B	380	2136	2442	2844	-309	-199	-423	O
ATOM	1789	N	LEU	B	381	19.535	-0.060	-18.802	1.00	19.03	N	
ANISOU	1789	N	LEU	B	381	2006	2427	2796	-274	-165	-485	N
ATOM	1790	CA	LEU	B	381	18.844	-0.036	-17.509	1.00	18.96	C	

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Figure 18 (continued)

ANISOU	1790	CA	LEU	B	381	2029	2373	2800	-249	-186	-498	C
ATOM	1791	CB	LEU	B	381	18.117	-1.356	-17.258	1.00	18.22		C
ANISOU	1791	CB	LEU	B	381	1933	2281	2708	-229	-160	-529	C
ATOM	1792	CG	LEU	B	381	17.277	-1.567	-16.000	1.00	18.70		C
ANISOU	1792	CG	LEU	B	381	2025	2311	2770	-212	-152	-535	C
ATOM	1793	CD1	LEU	B	381	16.073	-2.493	-16.303	1.00	16.19		C
ANISOU	1793	CD1	LEU	B	381	1688	2009	2454	-232	-118	-558	C
ATOM	1794	CD2	LEU	B	381	18.121	-2.129	-14.860	1.00	18.01		C
ANISOU	1794	CD2	LEU	B	381	1969	2193	2680	-196	-161	-527	C
ATOM	1795	C	LEU	B	381	19.942	0.175	-16.476	1.00	18.78		C
ANISOU	1795	C	LEU	B	381	2006	2334	2794	-262	-216	-491	C
ATOM	1796	O	LEU	B	381	20.876	-0.627	-16.374	1.00	18.28		O
ANISOU	1796	O	LEU	B	381	1898	2301	2747	-252	-214	-491	O
ATOM	1797	N	VAL	B	382	19.839	1.265	-15.730	1.00	19.29		N
ANISOU	1797	N	VAL	B	382	2125	2353	2851	-279	-250	-489	N
ATOM	1798	CA	VAL	B	382	20.836	1.563	-14.675	1.00	19.54		C
ANISOU	1798	CA	VAL	B	382	2167	2377	2881	-314	-304	-493	C
ATOM	1799	CB	VAL	B	382	20.934	3.093	-14.380	1.00	20.23		C
ANISOU	1799	CB	VAL	B	382	2332	2395	2958	-372	-341	-498	C
ATOM	1800	CG1	VAL	B	382	21.928	3.397	-13.238	1.00	19.44		C
ANISOU	1800	CG1	VAL	B	382	2249	2295	2842	-433	-418	-518	C
ATOM	1801	CG2	VAL	B	382	21.319	3.844	-15.652	1.00	20.85		C
ANISOU	1801	CG2	VAL	B	382	2392	2472	3060	-431	-323	-459	C
ATOM	1802	C	VAL	B	382	20.465	0.761	-13.431	1.00	19.16		C
ANISOU	1802	C	VAL	B	382	2157	2320	2803	-264	-312	-511	C
ATOM	1803	O	VAL	B	382	21.273	0.005	-12.911	1.00	20.08		O
ANISOU	1803	O	VAL	B	382	2241	2469	2918	-251	-343	-500	O
ATOM	1804	N	GLN	B	383	19.221	0.890	-12.992	1.00	18.96		N
ANISOU	1804	N	GLN	B	383	2195	2258	2752	-228	-275	-528	N
ATOM	1805	CA	GLN	B	383	18.755	0.178	-11.818	1.00	19.44		C
ANISOU	1805	CA	GLN	B	383	2306	2311	2769	-193	-258	-534	C
ATOM	1806	CB	GLN	B	383	19.339	0.796	-10.539	1.00	20.96		C
ANISOU	1806	CB	GLN	B	383	2581	2483	2901	-208	-319	-552	C
ATOM	1807	CG	GLN	B	383	18.988	0.003	-9.318	1.00	28.70		C
ANISOU	1807	CG	GLN	B	383	3630	3464	3810	-172	-301	-545	C
ATOM	1808	CD	GLN	B	383	19.917	0.256	-8.142	1.00	38.33		C
ANISOU	1808	CD	GLN	B	383	4920	4691	4951	-190	-395	-552	C
ATOM	1809	OE1	GLN	B	383	20.549	1.348	-8.009	1.00	37.76		O
ANISOU	1809	OE1	GLN	B	383	4873	4607	4867	-246	-467	-588	O
ATOM	1810	NE2	GLN	B	383	20.021	-0.768	-7.272	1.00	39.52		N
ANISOU	1810	NE2	GLN	B	383	5116	4861	5041	-153	-403	-515	N
ATOM	1811	C	GLN	B	383	17.247	0.146	-11.767	1.00	17.86		C
ANISOU	1811	C	GLN	B	383	2121	2104	2562	-158	-184	-546	C
ATOM	1812	O	GLN	B	383	16.598	1.075	-12.243	1.00	16.03		O
ANISOU	1812	O	GLN	B	383	1886	1860	2344	-140	-169	-556	O
ATOM	1813	N	LEU	B	384	16.709	-0.958	-11.236	1.00	17.13		N
ANISOU	1813	N	LEU	B	384	2036	2020	2452	-149	-135	-536	N
ATOM	1814	CA	LEU	B	384	15.291	-1.124	-11.035	1.00	17.71		C
ANISOU	1814	CA	LEU	B	384	2096	2111	2521	-135	-54	-542	C
ATOM	1815	CB	LEU	B	384	14.719	-2.032	-12.141	1.00	17.64		C
ANISOU	1815	CB	LEU	B	384	2001	2134	2568	-172	-28	-537	C
ATOM	1816	CG	LEU	B	384	13.218	-2.392	-12.135	1.00	17.32		C
ANISOU	1816	CG	LEU	B	384	1897	2141	2542	-192	47	-541	C
ATOM	1817	CD1	LEU	B	384	12.346	-1.239	-12.603	1.00	13.70		C
ANISOU	1817	CD1	LEU	B	384	1367	1735	2105	-139	48	-553	C
ATOM	1818	CD2	LEU	B	384	12.974	-3.626	-12.969	1.00	18.57		C
ANISOU	1818	CD2	LEU	B	384	2013	2307	2737	-267	54	-544	C
ATOM	1819	C	LEU	B	384	14.984	-1.751	-9.669	1.00	18.33		C
ANISOU	1819	C	LEU	B	384	2251	2179	2533	-132	-1	-529	C
ATOM	1820	O	LEU	B	384	15.530	-2.822	-9.331	1.00	18.89		O
ANISOU	1820	O	LEU	B	384	2361	2229	2587	-149	-12	-496	O
ATOM	1821	N	ILE	B	385	14.075	-1.135	-8.921	1.00	18.21		N
ANISOU	1821	N	ILE	B	385	2267	2178	2475	-99	66	-548	N
ATOM	1822	CA	ILE	B	385	13.525	-1.725	-7.689	1.00	19.18		C
ANISOU	1822	CA	ILE	B	385	2460	2308	2520	-101	151	-530	C
ATOM	1823	CB	ILE	B	385	13.787	-0.844	-6.427	1.00	20.69		C
ANISOU	1823	CB	ILE	B	385	2787	2478	2597	-54	150	-561	C
ATOM	1824	CG1	ILE	B	385	15.258	-0.466	-6.346	1.00	21.44		C
ANISOU	1824	CG1	ILE	B	385	2946	2535	2668	-67	10	-570	C
ATOM	1825	CD1	ILE	B	385	15.488	0.659	-5.362	1.00	26.55		C
ANISOU	1825	CD1	ILE	B	385	3726	3152	3211	-43	-15	-628	C

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Figure 18 (continued)

ATOM	1826	CG2	ILE	B	385	13.366	-1.580	-5.128	1.00	19.88	
ANISOU	1826	CG2	ILE	B	385	2782	2389	2383	-62	240	-529
ATOM	1827	C	ILE	B	385	12.005	-1.915	-7.850	1.00	19.64	
ANISOU	1827	C	ILE	B	385	2419	2430	2616	-108	271	-529
ATOM	1828	O	ILE	B	385	11.281	-0.951	-8.157	1.00	18.63	
ANISOU	1828	O	ILE	B	385	2224	2339	2517	-49	299	-561
ATOM	1829	N	VAL	B	386	11.540	-3.146	-7.645	1.00	20.36	
ANISOU	1829	N	VAL	B	386	2497	2531	2708	-181	338	-489
ATOM	1830	CA	VAL	B	386	10.150	-3.524	-7.836	1.00	21.66	
ANISOU	1830	CA	VAL	B	386	2538	2772	2919	-229	446	-483
ATOM	1831	CB	VAL	B	386	9.994	-4.733	-8.805	1.00	21.60	
ANISOU	1831	CB	VAL	B	386	2463	2755	2991	-344	426	-466
ATOM	1832	CG1	VAL	B	386	8.493	-5.016	-9.111	1.00	20.69	
ANISOU	1832	CG1	VAL	B	386	2180	2746	2934	-422	516	-468
ATOM	1833	CG2	VAL	B	386	10.748	-4.499	-10.055	1.00	20.40	
ANISOU	1833	CG2	VAL	B	386	2279	2580	2894	-326	304	-494
ATOM	1834	C	VAL	B	386	9.522	-3.950	-6.522	1.00	24.28	
ANISOU	1834	C	VAL	B	386	2935	3125	3166	-253	584	-450
ATOM	1835	O	VAL	B	386	10.124	-4.709	-5.755	1.00	24.69	
ANISOU	1835	O	VAL	B	386	3130	3109	3141	-286	588	-403
ATOM	1836	N	SER	B	387	8.292	-3.476	-6.306	1.00	26.04	
ANISOU	1836	N	SER	B	387	3043	3448	3401	-229	700	-466
ATOM	1837	CA	SER	B	387	7.460	-3.856	-5.191	1.00	28.34	
ANISOU	1837	CA	SER	B	387	3353	3793	3620	-262	868	-434
ATOM	1838	CB	SER	B	387	7.142	-2.619	-4.362	1.00	28.84	
ANISOU	1838	CB	SER	B	387	3457	3899	3602	-119	947	-482
ATOM	1839	OG	SER	B	387	6.509	-2.975	-3.165	1.00	32.36	
ANISOU	1839	OG	SER	B	387	3957	4394	3942	-143	1122	-451
ATOM	1840	C	SER	B	387	6.204	-4.454	-5.815	1.00	30.08	
ANISOU	1840	C	SER	B	387	3358	4122	3947	-367	949	-418
ATOM	1841	O	SER	B	387	5.597	-3.846	-6.691	1.00	30.62	
ANISOU	1841	O	SER	B	387	3245	4280	4109	-323	915	-454
ATOM	1842	N	GLY	B	388	5.827	-5.658	-5.406	1.00	31.67	
ANISOU	1842	N	GLY	B	388	3582	4316	4136	-517	1043	-359
ATOM	1843	CA	GLY	B	388	4.716	-6.338	-6.053	1.00	33.63	
ANISOU	1843	CA	GLY	B	388	3625	4660	4491	-666	1099	-348
ATOM	1844	C	GLY	B	388	3.996	-7.304	-5.157	1.00	36.39	
ANISOU	1844	C	GLY	B	388	3994	5032	4800	-818	1277	-279
ATOM	1845	O	GLY	B	388	4.534	-7.712	-4.131	1.00	36.83	
ANISOU	1845	O	GLY	B	388	4267	4991	4736	-821	1336	-224
ATOM	1846	N	LYS	B	389	2.775	-7.660	-5.557	1.00	39.31	
ANISOU	1846	N	LYS	B	389	4131	5538	5266	-952	1358	-276
ATOM	1847	CA	LYS	B	389	1.905	-8.546	-4.799	1.00	42.59	
ANISOU	1847	CA	LYS	B	389	4517	6004	5664	-1134	1549	-207
ATOM	1848	CB	LYS	B	389	0.455	-8.392	-5.270	1.00	45.19	
ANISOU	1848	CB	LYS	B	389	4495	6563	6111	-1219	1629	-227
ATOM	1849	CG	LYS	B	389	-0.202	-7.040	-4.873	1.00	47.63	
ANISOU	1849	CG	LYS	B	389	4629	7059	6410	-998	1722	-262
ATOM	1850	CD	LYS	B	389	-1.671	-6.960	-5.309	1.00	49.06	
ANISOU	1850	CD	LYS	B	389	4426	7496	6718	-1071	1803	-268
ATOM	1851	CE	LYS	B	389	-2.366	-5.751	-4.683	1.00	52.41	
ANISOU	1851	CE	LYS	B	389	4699	8096	7120	-834	1950	-290
ATOM	1852	NZ	LYS	B	389	-3.530	-5.319	-5.518	1.00	55.24	
ANISOU	1852	NZ	LYS	B	389	4659	8702	7629	-803	1926	-313
ATOM	1853	C	LYS	B	389	2.346	-10.017	-4.832	1.00	42.90	
ANISOU	1853	C	LYS	B	389	4742	5859	5697	-1341	1534	-147
ATOM	1854	O	LYS	B	389	2.093	-10.748	-3.870	1.00	44.63	
ANISOU	1854	O	LYS	B	389	5079	6036	5842	-1458	1691	-62
ATOM	1855	N	ASP	B	390	3.002	-10.448	-5.926	1.00	41.86	
ANISOU	1855	N	ASP	B	390	4658	5610	5637	-1378	1356	-187
ATOM	1856	CA	ASP	B	390	3.552	-11.836	-6.076	1.00	42.33	
ANISOU	1856	CA	ASP	B	390	4930	5455	5698	-1538	1326	-145
ATOM	1857	CB	ASP	B	390	2.436	-12.859	-6.342	1.00	44.76	
ANISOU	1857	CB	ASP	B	390	5124	5793	6090	-1829	1420	-127
ATOM	1858	CG	ASP	B	390	1.592	-12.508	-7.561	1.00	44.57	
ANISOU	1858	CG	ASP	B	390	4794	5948	6194	-1903	1333	-218
ATOM	1859	OD1	ASP	B	390	2.129	-11.946	-8.525	1.00	43.20	
ANISOU	1859	OD1	ASP	B	390	4586	5778	6050	-1774	1162	-293
ATOM	1860	OD2	ASP	B	390	0.384	-12.797	-7.556	1.00	46.53	
ANISOU	1860	OD2	ASP	B	390	4828	6344	6507	-2095	1432	-208
ATOM	1861	C	ASP	B	390	4.666	-11.971	-7.140	1.00	40.43	

Figure 18 (continued)

ANISOU	1861	C	ASP	B	390	4791	5075	5495	-1464	1126	-205	C
ATOM	1862	O	ASP	B	390	4.998	-10.988	-7.788	1.00	39.18		O
ANISOU	1862	O	ASP	B	390	4534	4994	5360	-1312	1011	-272	O
ATOM	1863	N	GLU	B	391	5.221	-13.178	-7.325	1.00	40.63		N
ANISOU	1863	N	GLU	B	391	5020	4893	5525	-1566	1099	-179	N
ATOM	1864	CA	GLU	B	391	6.313	-13.425	-8.304	1.00	39.14		C
ANISOU	1864	CA	GLU	B	391	4939	4566	5365	-1487	939	-236	C
ATOM	1865	CB	GLU	B	391	6.913	-14.847	-8.174	1.00	40.09		C
ANISOU	1865	CB	GLU	B	391	5332	4428	5474	-1569	953	-186	C
ATOM	1866	CG	GLU	B	391	8.099	-14.930	-7.176	1.00	40.49		C
ANISOU	1866	CG	GLU	B	391	5615	4348	5420	-1384	945	-95	C
ATOM	1867	CD	GLU	B	391	8.475	-16.353	-6.733	1.00	43.04		C
ANISOU	1867	CD	GLU	B	391	6221	4416	5717	-1454	995	-5	C
ATOM	1868	OE1	GLU	B	391	8.222	-17.326	-7.492	1.00	45.74		O
ANISOU	1868	OE1	GLU	B	391	6626	4619	6135	-1610	998	-44	O
ATOM	1869	OE2	GLU	B	391	9.052	-16.495	-5.615	1.00	44.91		O
ANISOU	1869	OE2	GLU	B	391	6636	4581	5848	-1347	1025	106	O
ATOM	1870	C	GLU	B	391	5.964	-13.106	-9.762	1.00	38.03		C
ANISOU	1870	C	GLU	B	391	4609	4525	5316	-1529	824	-347	C
ATOM	1871	O	GLU	B	391	6.794	-12.544	-10.477	1.00	36.08		O
ANISOU	1871	O	GLU	B	391	4365	4273	5069	-1380	701	-400	O
ATOM	1872	N	GLN	B	392	4.750	-13.463	-10.192	1.00	39.60		N
ANISOU	1872	N	GLN	B	392	4640	4822	5583	-1740	863	-375	N
ATOM	1873	CA	GLN	B	392	4.252	-13.121	-11.535	1.00	38.76		C
ANISOU	1873	CA	GLN	B	392	4333	4849	5544	-1791	743	-474	C
ATOM	1874	CB	GLN	B	392	2.892	-13.797	-11.814	1.00	42.01		C
ANISOU	1874	CB	GLN	B	392	4577	5357	6027	-2076	791	-493	C
ATOM	1875	CG	GLN	B	392	2.290	-13.588	-13.235	1.00	44.80		C
ANISOU	1875	CG	GLN	B	392	4722	5861	6437	-2162	643	-595	C
ATOM	1876	CD	GLN	B	392	3.258	-13.942	-14.391	1.00	51.20		C
ANISOU	1876	CD	GLN	B	392	5712	6521	7222	-2125	497	-682	C
ATOM	1877	OE1	GLN	B	392	4.031	-14.910	-14.311	1.00	53.93		O
ANISOU	1877	OE1	GLN	B	392	6326	6621	7545	-2163	520	-686	O
ATOM	1878	NE2	GLN	B	392	3.209	-13.147	-15.476	1.00	51.38		N
ANISOU	1878	NE2	GLN	B	392	5589	6692	7241	-2037	355	-747	N
ATOM	1879	C	GLN	B	392	4.181	-11.602	-11.782	1.00	36.21		C
ANISOU	1879	C	GLN	B	392	3816	4724	5219	-1585	678	-496	C
ATOM	1880	O	GLN	B	392	4.634	-11.118	-12.828	1.00	34.96		O
ANISOU	1880	O	GLN	B	392	3629	4588	5067	-1495	542	-558	O
ATOM	1881	N	SER	B	393	3.649	-10.860	-10.813	1.00	34.95		N
ANISOU	1881	N	SER	B	393	3549	4690	5041	-1504	785	-445	N
ATOM	1882	CA	SER	B	393	3.519	-9.411	-10.941	1.00	33.17		C
ANISOU	1882	CA	SER	B	393	3168	4622	4815	-1299	742	-464	C
ATOM	1883	CB	SER	B	393	2.667	-8.847	-9.825	1.00	34.13		C
ANISOU	1883	CB	SER	B	393	3167	4880	4919	-1250	901	-417	C
ATOM	1884	OG	SER	B	393	1.467	-9.579	-9.745	1.00	38.87		O
ANISOU	1884	OG	SER	B	393	3599	5590	5579	-1467	999	-399	O
ATOM	1885	C	SER	B	393	4.865	-8.711	-10.949	1.00	30.03		C
ANISOU	1885	C	SER	B	393	2939	4115	4358	-1091	657	-471	C
ATOM	1886	O	SER	B	393	5.056	-7.742	-11.689	1.00	28.60		O
ANISOU	1886	O	SER	B	393	2679	3999	4189	-962	554	-508	O
ATOM	1887	N	ILE	B	394	5.786	-9.209	-10.124	1.00	28.74		N
ANISOU	1887	N	ILE	B	394	3005	3789	4128	-1066	696	-428	N
ATOM	1888	CA	ILE	B	394	7.140	-8.694	-10.082	1.00	26.95		C
ANISOU	1888	CA	ILE	B	394	2927	3464	3849	-898	609	-432	C
ATOM	1889	CB	ILE	B	394	7.945	-9.231	-8.866	1.00	27.07		C
ANISOU	1889	CB	ILE	B	394	3165	3341	3778	-867	665	-365	C
ATOM	1890	CG1	ILE	B	394	7.375	-8.668	-7.560	1.00	27.49		C
ANISOU	1890	CG1	ILE	B	394	3213	3475	3757	-823	791	-323	C
ATOM	1891	CD1	ILE	B	394	7.721	-9.498	-6.320	1.00	30.31		C
ANISOU	1891	CD1	ILE	B	394	3780	3722	4015	-857	877	-236	C
ATOM	1892	CG2	ILE	B	394	9.424	-8.817	-8.994	1.00	25.51		C
ANISOU	1892	CG2	ILE	B	394	3088	3060	3545	-716	547	-374	C
ATOM	1893	C	ILE	B	394	7.863	-8.944	-11.412	1.00	25.54		C
ANISOU	1893	C	ILE	B	394	2774	3223	3709	-900	476	-486	C
ATOM	1894	O	ILE	B	394	8.505	-8.056	-11.939	1.00	24.61		O
ANISOU	1894	O	ILE	B	394	2639	3128	3585	-774	387	-513	O
ATOM	1895	N	ALA	B	395	7.737	-10.156	-11.945	1.00	26.28		N
ANISOU	1895	N	ALA	B	395	2921	3231	3834	-1051	474	-504	N
ATOM	1896	CA	ALA	B	395	8.278	-10.524	-13.247	1.00	25.51		C
ANISOU	1896	CA	ALA	B	395	2857	3077	3758	-1069	369	-571	C

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Figure 18 (continued)

ATOM	1897	CB	ALA	B	395	8.021	-12.026	-13.536	1.00	26.45	C	
ANISOU	1897	CB	ALA	B	395	3085	3062	3901	-1258	400	-593	C
ATOM	1898	C	ALA	B	395	7.733	-9.662	-14.399	1.00	24.95	C	
ANISOU	1898	C	ALA	B	395	2600	3169	3712	-1056	277	-628	C
ATOM	1899	O	ALA	B	395	8.500	-9.203	-15.243	1.00	22.82	O	
ANISOU	1899	O	ALA	B	395	2354	2893	3424	-962	190	-660	O
ATOM	1900	N	GLU	B	396	6.413	-9.463	-14.442	1.00	26.63	N	
ANISOU	1900	N	GLU	B	396	2622	3534	3962	-1148	299	-631	N
ATOM	1901	CA	GLU	B	396	5.790	-8.559	-15.438	1.00	27.37	C	
ANISOU	1901	CA	GLU	B	396	2521	3803	4073	-1108	201	-664	C
ATOM	1902	CB	GLU	B	396	4.277	-8.475	-15.213	1.00	29.22	C	
ANISOU	1902	CB	GLU	B	396	2520	4221	4361	-1205	245	-652	C
ATOM	1903	CG	GLU	B	396	3.527	-9.794	-15.523	1.00	32.18	C	
ANISOU	1903	CG	GLU	B	396	2860	4592	4773	-1475	256	-688	C
ATOM	1904	CD	GLU	B	396	2.066	-9.807	-15.029	1.00	35.39	C	
ANISOU	1904	CD	GLU	B	396	3014	5189	5242	-1595	335	-660	C
ATOM	1905	OE1	GLU	B	396	1.642	-8.836	-14.337	1.00	37.14	O	
ANISOU	1905	OE1	GLU	B	396	3100	5536	5475	-1443	406	-611	O
ATOM	1906	OE2	GLU	B	396	1.350	-10.800	-15.323	1.00	36.33	O	
ANISOU	1906	OE2	GLU	B	396	3073	5331	5402	-1846	335	-690	O
ATOM	1907	C	GLU	B	396	6.422	-7.145	-15.460	1.00	25.68	C	
ANISOU	1907	C	GLU	B	396	2306	3621	3832	-885	157	-642	C
ATOM	1908	O	GLU	B	396	6.720	-6.591	-16.526	1.00	25.72	O	
ANISOU	1908	O	GLU	B	396	2290	3663	3819	-824	51	-666	O
ATOM	1909	N	ALA	B	397	6.661	-6.577	-14.284	1.00	24.70	N	
ANISOU	1909	N	ALA	B	397	2225	3468	3690	-776	239	-596	N
ATOM	1910	CA	ALA	B	397	7.333	-5.290	-14.153	1.00	22.65	C	
ANISOU	1910	CA	ALA	B	397	2004	3200	3402	-591	205	-582	C
ATOM	1911	CB	ALA	B	397	7.298	-4.867	-12.714	1.00	23.05	C	
ANISOU	1911	CB	ALA	B	397	2103	3231	3422	-516	311	-548	C
ATOM	1912	C	ALA	B	397	8.789	-5.313	-14.662	1.00	21.56	C	
ANISOU	1912	C	ALA	B	397	2019	2943	3231	-547	131	-594	C
ATOM	1913	O	ALA	B	397	9.232	-4.375	-15.328	1.00	21.06	O	
ANISOU	1913	O	ALA	B	397	1949	2897	3156	-455	60	-597	O
ATOM	1914	N	ILE	B	398	9.536	-6.365	-14.321	1.00	20.90	N	
ANISOU	1914	N	ILE	B	398	2071	2737	3132	-604	158	-592	N
ATOM	1915	CA	ILE	B	398	10.913	-6.523	-14.788	1.00	20.40	C	
ANISOU	1915	CA	ILE	B	398	2124	2579	3048	-554	103	-603	C
ATOM	1916	CB	ILE	B	398	11.619	-7.735	-14.116	1.00	20.53	C	
ANISOU	1916	CB	ILE	B	398	2288	2459	3053	-583	148	-585	C
ATOM	1917	CG1	ILE	B	398	11.713	-7.536	-12.597	1.00	20.53	C	
ANISOU	1917	CG1	ILE	B	398	2348	2434	3017	-534	206	-527	C
ATOM	1918	CD1	ILE	B	398	12.047	-8.805	-11.842	1.00	22.94	C	
ANISOU	1918	CD1	ILE	B	398	2798	2613	3304	-574	257	-485	C
ATOM	1919	CG2	ILE	B	398	13.040	-7.930	-14.677	1.00	20.38	C	
ANISOU	1919	CG2	ILE	B	398	2352	2365	3024	-509	97	-598	C
ATOM	1920	C	ILE	B	398	10.967	-6.589	-16.325	1.00	20.24	C	
ANISOU	1920	C	ILE	B	398	2065	2595	3029	-586	28	-652	C
ATOM	1921	O	ILE	B	398	11.740	-5.886	-16.951	1.00	20.94	O	
ANISOU	1921	O	ILE	B	398	2167	2693	3098	-509	-23	-654	O
ATOM	1922	N	ILE	B	399	10.109	-7.406	-16.920	1.00	21.51	N	
ANISOU	1922	N	ILE	B	399	2184	2784	3204	-714	22	-692	N
ATOM	1923	CA	ILE	B	399	10.015	-7.555	-18.364	1.00	20.76	C	
ANISOU	1923	CA	ILE	B	399	2067	2736	3085	-764	-55	-750	C
ATOM	1924	CB	ILE	B	399	8.910	-8.566	-18.768	1.00	21.63	C	
ANISOU	1924	CB	ILE	B	399	2131	2876	3211	-946	-65	-802	C
ATOM	1925	CG1	ILE	B	399	9.288	-9.984	-18.311	1.00	22.66	C	
ANISOU	1925	CG1	ILE	B	399	2424	2832	3354	-1040	7	-825	C
ATOM	1926	CD1	ILE	B	399	8.135	-11.012	-18.342	1.00	22.92	C	
ANISOU	1926	CD1	ILE	B	399	2427	2865	3418	-1259	24	-864	C
ATOM	1927	CG2	ILE	B	399	8.658	-8.506	-20.279	1.00	19.65	C	
ANISOU	1927	CG2	ILE	B	399	1844	2714	2910	-995	-171	-865	C
ATOM	1928	C	ILE	B	399	9.770	-6.221	-19.068	1.00	21.46	C	
ANISOU	1928	C	ILE	B	399	2050	2953	3152	-676	-131	-730	C
ATOM	1929	O	ILE	B	399	10.477	-5.901	-20.019	1.00	21.12	O	
ANISOU	1929	O	ILE	B	399	2054	2908	3061	-632	-180	-743	O
ATOM	1930	N	VAL	B	400	8.760	-5.470	-18.605	1.00	22.28	N	
ANISOU	1930	N	VAL	B	400	2017	3161	3287	-643	-129	-693	N
ATOM	1931	CA	VAL	B	400	8.423	-4.134	-19.122	1.00	21.58	C	
ANISOU	1931	CA	VAL	B	400	1838	3175	3186	-529	-194	-658	C
ATOM	1932	CB	VAL	B	400	7.122	-3.570	-18.448	1.00	22.39	C	

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Figure 18 (continued)

ANISOU	1932	CB	VAL	B	400	1773	3394	3339	-487	-166	-626	C
ATOM	1933	CG1	VAL	B	400	6.830	-2.142	-18.873	1.00	21.87		C
ANISOU	1933	CG1	VAL	B	400	1642	3400	3267	-328	-226	-580	C
ATOM	1934	CG2	VAL	B	400	5.918	-4.465	-18.794	1.00	22.46		C
ANISOU	1934	CG2	VAL	B	400	1633	3525	3378	-639	-188	-659	C
ATOM	1935	C	VAL	B	400	9.588	-3.144	-19.029	1.00	20.81		C
ANISOU	1935	C	VAL	B	400	1846	2997	3063	-403	-194	-622	C
ATOM	1936	O	VAL	B	400	9.846	-2.400	-19.974	1.00	21.60		O
ANISOU	1936	O	VAL	B	400	1956	3127	3125	-349	-261	-603	O
ATOM	1937	N	ALA	B	401	10.301	-3.154	-17.909	1.00	20.61		N
ANISOU	1937	N	ALA	B	401	1904	2873	3052	-370	-125	-610	N
ATOM	1938	CA	ALA	B	401	11.458	-2.262	-17.687	1.00	19.84		C
ANISOU	1938	CA	ALA	B	401	1899	2702	2937	-283	-131	-583	C
ATOM	1939	CB	ALA	B	401	11.879	-2.301	-16.225	1.00	19.17		C
ANISOU	1939	CB	ALA	B	401	1879	2544	2860	-259	-68	-573	C
ATOM	1940	C	ALA	B	401	12.637	-2.629	-18.608	1.00	19.90		C
ANISOU	1940	C	ALA	B	401	1979	2670	2913	-310	-158	-597	C
ATOM	1941	O	ALA	B	401	13.278	-1.758	-19.177	1.00	18.35		O
ANISOU	1941	O	ALA	B	401	1809	2471	2693	-267	-189	-571	O
ATOM	1942	N	MSE	B	402	12.894	-3.931	-18.781	1.00	20.40		N
ANISOU	1942	N	MSE	B	402	2079	2699	2974	-381	-136	-638	N
ATOM	1943	CA	MSE	B	402	13.954	-4.385	-19.707	1.00	20.55		C
ANISOU	1943	CA	MSE	B	402	2161	2687	2958	-388	-140	-664	C
ATOM	1944	CB	MSE	B	402	14.214	-5.888	-19.546	1.00	21.32		C
ANISOU	1944	CB	MSE	B	402	2329	2705	3066	-438	-96	-712	C
ATOM	1945	CG	MSE	B	402	14.859	-6.269	-18.205	1.00	19.84		C
ANISOU	1945	CG	MSE	B	402	2193	2430	2916	-395	-51	-679	C
ATOM	1946	SE	MSE	B	402	15.005	-8.198	-18.086	0.90	23.84		SE
ANISOU	1946	SE	MSE	B	402	2821	2801	3435	-446	4	-723	SE
ATOM	1947	CE	MSE	B	402	16.111	-8.378	-16.488	1.00	20.10		C
ANISOU	1947	CE	MSE	B	402	2411	2243	2983	-338	29	-648	C
ATOM	1948	C	MSE	B	402	13.680	-4.012	-21.179	1.00	20.87		C
ANISOU	1948	C	MSE	B	402	2183	2810	2939	-405	-194	-677	C
ATOM	1949	O	MSE	B	402	14.567	-3.492	-21.882	1.00	21.13		O
ANISOU	1949	O	MSE	B	402	2248	2848	2930	-371	-196	-660	O
ATOM	1950	N	VAL	B	403	12.449	-4.240	-21.642	1.00	20.78		N
ANISOU	1950	N	VAL	B	403	2109	2873	2913	-463	-241	-701	N
ATOM	1951	CA	VAL	B	403	12.053	-3.857	-22.988	1.00	19.97		C
ANISOU	1951	CA	VAL	B	403	1987	2866	2733	-475	-317	-705	C
ATOM	1952	CB	VAL	B	403	10.621	-4.369	-23.365	1.00	21.28		C
ANISOU	1952	CB	VAL	B	403	2060	3133	2892	-566	-386	-744	C
ATOM	1953	CG1	VAL	B	403	10.175	-3.778	-24.723	1.00	21.74		C
ANISOU	1953	CG1	VAL	B	403	2093	3315	2853	-556	-494	-730	C
ATOM	1954	CG2	VAL	B	403	10.574	-5.860	-23.429	1.00	19.64		C
ANISOU	1954	CG2	VAL	B	403	1912	2867	2684	-694	-358	-835	C
ATOM	1955	C	VAL	B	403	12.131	-2.338	-23.143	1.00	19.26		C
ANISOU	1955	C	VAL	B	403	1877	2811	2630	-375	-351	-621	C
ATOM	1956	O	VAL	B	403	12.691	-1.835	-24.114	1.00	18.91		O
ANISOU	1956	O	VAL	B	403	1888	2786	2512	-354	-371	-595	O
ATOM	1957	N	PHE	B	404	11.588	-1.610	-22.163	1.00	18.84		N
ANISOU	1957	N	PHE	B	404	1763	2752	2642	-312	-343	-577	N
ATOM	1958	CA	PHE	B	404	11.582	-0.161	-22.194	1.00	18.40		C
ANISOU	1958	CA	PHE	B	404	1716	2693	2584	-208	-369	-502	C
ATOM	1959	CB	PHE	B	404	10.817	0.351	-20.968	1.00	18.31		C
ANISOU	1959	CB	PHE	B	404	1642	2669	2645	-138	-339	-486	C
ATOM	1960	CG	PHE	B	404	10.743	1.833	-20.875	1.00	18.13		C
ANISOU	1960	CG	PHE	B	404	1654	2608	2627	-16	-355	-420	C
ATOM	1961	CD1	PHE	B	404	9.712	2.526	-21.510	1.00	21.57		C
ANISOU	1961	CD1	PHE	B	404	2019	3125	3050	75	-424	-372	C
ATOM	1962	CE1	PHE	B	404	9.623	3.911	-21.415	1.00	19.89		C
ANISOU	1962	CE1	PHE	B	404	1867	2845	2845	209	-433	-306	C
ATOM	1963	CZ	PHE	B	404	10.559	4.622	-20.695	1.00	19.02		C
ANISOU	1963	CZ	PHE	B	404	1892	2583	2751	222	-377	-301	C
ATOM	1964	CE2	PHE	B	404	11.600	3.964	-20.055	1.00	17.62		C
ANISOU	1964	CE2	PHE	B	404	1765	2349	2583	115	-323	-353	C
ATOM	1965	CD2	PHE	B	404	11.686	2.554	-20.149	1.00	18.96		C
ANISOU	1965	CD2	PHE	B	404	1868	2590	2748	11	-311	-406	C
ATOM	1966	C	PHE	B	404	13.000	0.452	-22.282	1.00	17.86		C
ANISOU	1966	C	PHE	B	404	1756	2534	2495	-193	-334	-470	C
ATOM	1967	O	PHE	B	404	13.187	1.520	-22.880	1.00	18.45		O
ANISOU	1967	O	PHE	B	404	1877	2601	2533	-147	-362	-406	O

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Figure 18 (continued)

ATOM	1968	N	SER	B	405	13.981	-0.215	-21.670	1.00	17.56	
ANISOU	1968	N	SER	B	405	1754	2433	2485	-234	-273	-506
ATOM	1969	CA	SER	B	405	15.373	0.264	-21.614	1.00	17.50	
ANISOU	1969	CA	SER	B	405	1807	2365	2476	-236	-240	-480
ATOM	1970	CB	SER	B	405	16.229	-0.605	-20.689	1.00	17.20	
ANISOU	1970	CB	SER	B	405	1772	2280	2483	-256	-192	-518
ATOM	1971	OG	SER	B	405	16.462	-1.911	-21.262	1.00	20.67	
ANISOU	1971	OG	SER	B	405	2216	2738	2901	-289	-164	-571
ATOM	1972	C	SER	B	405	16.025	0.316	-22.998	1.00	17.94	
ANISOU	1972	C	SER	B	405	1898	2462	2456	-265	-235	-464
ATOM	1973	O	SER	B	405	16.989	1.044	-23.203	1.00	18.90	
ANISOU	1973	O	SER	B	405	2055	2558	2568	-275	-210	-418
ATOM	1974	N	GLN	B	406	15.494	-0.461	-23.935	1.00	18.28	
ANISOU	1974	N	GLN	B	406	1937	2573	2437	-291	-256	-504
ATOM	1975	CA	GLN	B	406	16.000	-0.549	-25.304	1.00	19.28	
ANISOU	1975	CA	GLN	B	406	2116	2752	2458	-318	-243	-503
ATOM	1976	CB	GLN	B	406	15.955	0.817	-25.999	1.00	19.35	
ANISOU	1976	CB	GLN	B	406	2167	2777	2406	-291	-278	-404
ATOM	1977	CG	GLN	B	406	14.532	1.352	-26.113	1.00	20.49	
ANISOU	1977	CG	GLN	B	406	2281	2965	2539	-240	-379	-367
ATOM	1978	CD	GLN	B	406	14.456	2.710	-26.785	1.00	22.34	
ANISOU	1978	CD	GLN	B	406	2584	3192	2713	-188	-418	-254
ATOM	1979	OE1	GLN	B	406	15.224	3.623	-26.471	1.00	20.91	
ANISOU	1979	OE1	GLN	B	406	2462	2918	2562	-184	-372	-193
ATOM	1980	NE2	GLN	B	406	13.519	2.849	-27.714	1.00	20.46	
ANISOU	1980	NE2	GLN	B	406	2345	3047	2383	-154	-512	-221
ATOM	1981	C	GLN	B	406	17.374	-1.207	-25.426	1.00	19.38	
ANISOU	1981	C	GLN	B	406	2150	2743	2469	-335	-149	-539
ATOM	1982	O	GLN	B	406	18.039	-1.028	-26.432	1.00	21.03	
ANISOU	1982	O	GLN	B	406	2400	2994	2595	-348	-107	-522
ATOM	1983	N	GLU	B	407	17.781	-1.976	-24.415	1.00	18.80	
ANISOU	1983	N	GLU	B	407	2049	2614	2481	-325	-113	-581
ATOM	1984	CA	GLU	B	407	19.109	-2.576	-24.370	1.00	19.09	
ANISOU	1984	CA	GLU	B	407	2080	2636	2537	-307	-30	-605
ATOM	1985	CB	GLU	B	407	19.365	-3.321	-23.048	1.00	18.52	
ANISOU	1985	CB	GLU	B	407	1981	2495	2561	-275	-21	-629
ATOM	1986	CG	GLU	B	407	19.622	-2.433	-21.859	1.00	18.23	
ANISOU	1986	CG	GLU	B	407	1904	2432	2593	-268	-55	-571
ATOM	1987	CD	GLU	B	407	20.657	-2.959	-20.879	1.00	20.08	
ANISOU	1987	CD	GLU	B	407	2101	2638	2890	-228	-36	-571
ATOM	1988	OE1	GLU	B	407	21.347	-3.968	-21.157	1.00	24.36	
ANISOU	1988	OE1	GLU	B	407	2638	3181	3437	-183	17	-605
ATOM	1989	OE2	GLU	B	407	20.803	-2.340	-19.816	1.00	15.98	
ANISOU	1989	OE2	GLU	B	407	1565	2098	2410	-232	-77	-538
ATOM	1990	C	GLU	B	407	19.347	-3.519	-25.533	1.00	20.61	
ANISOU	1990	C	GLU	B	407	2328	2862	2643	-309	25	-675
ATOM	1991	O	GLU	B	407	18.464	-4.263	-25.933	1.00	20.40	
ANISOU	1991	O	GLU	B	407	2351	2831	2570	-338	-7	-741
ATOM	1992	N	ASP	B	408	20.557	-3.455	-26.078	1.00	21.85	
ANISOU	1992	N	ASP	B	408	2473	3056	2773	-287	113	-666
ATOM	1993	CA	ASP	B	408	20.990	-4.385	-27.121	1.00	23.75	
ANISOU	1993	CA	ASP	B	408	2775	3323	2925	-264	199	-744
ATOM	1994	CB	ASP	B	408	22.417	-4.035	-27.600	1.00	24.31	
ANISOU	1994	CB	ASP	B	408	2792	3464	2982	-234	316	-708
ATOM	1995	CG	ASP	B	408	22.868	-4.897	-28.750	1.00	28.24	
ANISOU	1995	CG	ASP	B	408	3363	3999	3369	-193	429	-792
ATOM	1996	OD1	ASP	B	408	22.218	-4.835	-29.818	1.00	30.42	
ANISOU	1996	OD1	ASP	B	408	3745	4314	3501	-240	412	-821
ATOM	1997	OD2	ASP	B	408	23.858	-5.658	-28.585	1.00	29.98	
ANISOU	1997	OD2	ASP	B	408	3540	4212	3639	-103	531	-834
ATOM	1998	C	ASP	B	408	20.919	-5.851	-26.691	1.00	23.93	
ANISOU	1998	C	ASP	B	408	2843	3258	2993	-219	222	-841
ATOM	1999	O	ASP	B	408	20.644	-6.717	-27.523	1.00	26.33	
ANISOU	1999	O	ASP	B	408	3249	3545	3209	-226	252	-934
ATOM	2000	N	ACYS	B	409	21.157	-6.152	-25.422	0.50	23.03	
ANISOU	2000	N	ACYS	B	409	2677	3074	2999	-178	208	-820
ATOM	2001	N	BCYS	B	409	21.192	-6.118	-25.410	0.50	23.70	
ANISOU	2001	N	BCYS	B	409	2758	3161	3085	-177	209	-817
ATOM	2002	CA	ACYS	B	409	21.117	-7.552	-25.013	0.50	23.05	
ANISOU	2002	CA	ACYS	B	409	2751	2969	3040	-130	237	-894
ATOM	2003	CA	BCYS	B	409	21.114	-7.471	-24.832	0.50	24.45	

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Figure 18 (continued)

ANISOU	2003	CA	BCYS	B	409	2916	3144	3231	-129	228	-883	C
ATOM	2004	CB	ACYS	B	409	21.870	-7.779	-23.708	0.50	22.54		C
ANISOU	2004	CB	ACYS	B	409	2619	2853	3090	-46	240	-844	C
ATOM	2005	CB	BCYS	B	409	21.537	-7.471	-23.355	0.50	23.66		C
ANISOU	2005	CB	BCYS	B	409	2747	2996	3247	-76	201	-820	C
ATOM	2006	SG	ACYS	B	409	20.881	-7.846	-22.247	0.50	20.66		S
ANISOU	2006	SG	ACYS	B	409	2393	2533	2922	-91	150	-805	S
ATOM	2007	SG	BCYS	B	409	23.267	-7.970	-23.032	0.50	30.51		S
ANISOU	2007	SG	BCYS	B	409	3537	3875	4180	76	284	-802	S
ATOM	2008	C	ACYS	B	409	19.678	-8.084	-24.950	0.50	23.04		C
ANISOU	2008	C	ACYS	B	409	2832	2904	3018	-222	165	-946	C
ATOM	2009	C	BCYS	B	409	19.704	-8.048	-24.956	0.50	23.79		C
ANISOU	2009	C	BCYS	B	409	2924	3003	3114	-220	166	-944	C
ATOM	2010	O	ACYS	B	409	19.462	-9.292	-25.088	0.50	23.63		O
ANISOU	2010	O	ACYS	B	409	3015	2881	3084	-225	195	-1031	O
ATOM	2011	O	BCYS	B	409	19.535	-9.243	-25.224	0.50	24.43		O
ANISOU	2011	O	BCYS	B	409	3115	2992	3174	-221	200	-1033	O
ATOM	2012	N	MSE	B	410	18.715	-7.174	-24.763	1.00	22.13		N
ANISOU	2012	N	MSE	B	410	2663	2845	2900	-296	77	-895	N
ATOM	2013	CA	MSE	B	410	17.291	-7.506	-24.815	1.00	22.65		C
ANISOU	2013	CA	MSE	B	410	2756	2901	2947	-395	4	-935	C
ATOM	2014	CB	MSE	B	410	16.469	-6.363	-24.180	1.00	22.12		C
ANISOU	2014	CB	MSE	B	410	2589	2896	2920	-418	-73	-851	C
ATOM	2015	CG	MSE	B	410	14.919	-6.489	-24.305	1.00	23.37		C
ANISOU	2015	CG	MSE	B	410	2717	3098	3064	-513	-154	-876	C
ATOM	2016	SE	MSE	B	410	14.089	-5.800	-25.963	0.90	26.60		SE
ANISOU	2016	SE	MSE	B	410	3114	3662	3331	-562	-257	-885	SE
ATOM	2017	CE	MSE	B	410	14.915	-4.026	-25.917	1.00	18.43		C
ANISOU	2017	CE	MSE	B	410	2040	2665	2297	-451	-245	-752	C
ATOM	2018	C	MSE	B	410	16.832	-7.795	-26.261	1.00	24.21		C
ANISOU	2018	C	MSE	B	410	3030	3154	3015	-459	-18	-1015	C
ATOM	2019	O	MSE	B	410	16.097	-8.758	-26.507	1.00	26.05		O
ANISOU	2019	O	MSE	B	410	3337	3340	3223	-543	-42	-1103	O
ATOM	2020	N	ILE	B	411	17.279	-6.966	-27.209	1.00	23.73		N
ANISOU	2020	N	ILE	B	411	2964	3190	2862	-434	-10	-984	N
ATOM	2021	CA	ILE	B	411	16.968	-7.127	-28.621	1.00	24.58		C
ANISOU	2021	CA	ILE	B	411	3159	3368	2813	-484	-31	-1049	C
ATOM	2022	CB	ILE	B	411	17.364	-5.833	-29.388	1.00	25.91		C
ANISOU	2022	CB	ILE	B	411	3303	3651	2892	-455	-32	-956	C
ATOM	2023	CG1	ILE	B	411	16.275	-4.775	-29.197	1.00	25.08		C
ANISOU	2023	CG1	ILE	B	411	3119	3612	2799	-483	-161	-866	C
ATOM	2024	CD1	ILE	B	411	16.743	-3.369	-29.342	1.00	27.19		C
ANISOU	2024	CD1	ILE	B	411	3355	3923	3051	-438	-154	-740	C
ATOM	2025	CG2	ILE	B	411	17.488	-6.094	-30.859	1.00	27.26		C
ANISOU	2025	CG2	ILE	B	411	3593	3891	2874	-479	-9	-1022	C
ATOM	2026	C	ILE	B	411	17.630	-8.389	-29.207	1.00	25.31		C
ANISOU	2026	C	ILE	B	411	3387	3383	2845	-464	69	-1174	C
ATOM	2027	O	ILE	B	411	17.036	-9.078	-30.020	1.00	25.74		O
ANISOU	2027	O	ILE	B	411	3553	3436	2793	-541	34	-1280	O
ATOM	2028	N	LYS	B	412	18.851	-8.695	-28.771	1.00	24.46		N
ANISOU	2028	N	LYS	B	412	3273	3215	2808	-354	188	-1167	N
ATOM	2029	CA	LYS	B	412	19.531	-9.938	-29.166	1.00	25.83		C
ANISOU	2029	CA	LYS	B	412	3574	3291	2950	-290	300	-1283	C
ATOM	2030	CB	LYS	B	412	21.037	-9.850	-28.886	1.00	25.21		C
ANISOU	2030	CB	LYS	B	412	3423	3220	2935	-138	430	-1237	C
ATOM	2031	CG	LYS	B	412	21.773	-8.806	-29.742	1.00	23.92		C
ANISOU	2031	CG	LYS	B	412	3193	3213	2684	-119	493	-1176	C
ATOM	2032	CD	LYS	B	412	21.678	-9.165	-31.220	1.00	22.65		C
ANISOU	2032	CD	LYS	B	412	3183	3097	2327	-142	550	-1280	C
ATOM	2033	CE	LYS	B	412	22.511	-8.236	-32.094	1.00	20.84		C
ANISOU	2033	CE	LYS	B	412	2906	3018	1995	-121	647	-1213	C
ATOM	2034	NZ	LYS	B	412	21.948	-6.857	-32.071	1.00	20.43		N
ANISOU	2034	NZ	LYS	B	412	2781	3055	1928	-215	534	-1081	N
ATOM	2035	C	LYS	B	412	18.949	-11.213	-28.536	1.00	26.84		C
ANISOU	2035	C	LYS	B	412	3802	3249	3147	-329	281	-1365	C
ATOM	2036	O	LYS	B	412	19.226	-12.299	-29.012	1.00	28.99		O
ANISOU	2036	O	LYS	B	412	4229	3413	3371	-300	355	-1482	O
ATOM	2037	N	ALA	B	413	18.131	-11.068	-27.497	1.00	26.02		N
ANISOU	2037	N	ALA	B	413	3625	3115	3145	-398	193	-1304	N
ATOM	2038	CA	ALA	B	413	17.459	-12.202	-26.858	1.00	27.44		C
ANISOU	2038	CA	ALA	B	413	3899	3138	3389	-471	177	-1361	C

Figure 18 (continued)

ATOM	2039	CB	ALA	B	413	17.107	-11.851	-25.376	1.00	25.11	C	
ANISOU	2039	CB	ALA	B	413	3488	2823	3229	-476	137	-1246	C
ATOM	2040	C	ALA	B	413	16.215	-12.670	-27.635	1.00	29.24	C	
ANISOU	2040	C	ALA	B	413	4212	3372	3526	-653	93	-1466	C
ATOM	2041	O	ALA	B	413	15.635	-13.725	-27.336	1.00	30.83	O	
ANISOU	2041	O	ALA	B	413	4521	3433	3761	-753	87	-1536	O
ATOM	2042	N	VAL	B	414	15.801	-11.893	-28.634	1.00	30.33	N	
ANISOU	2042	N	VAL	B	414	4307	3674	3544	-707	19	-1472	N
ATOM	2043	CA	VAL	B	414	14.651	-12.269	-29.456	1.00	31.87	C	
ANISOU	2043	CA	VAL	B	414	4563	3912	3634	-882	-88	-1572	C
ATOM	2044	CB	VAL	B	414	14.201	-11.126	-30.389	1.00	31.88	C	
ANISOU	2044	CB	VAL	B	414	4477	4127	3508	-905	-194	-1526	C
ATOM	2045	CG1	VAL	B	414	13.206	-11.626	-31.408	1.00	31.91	C	
ANISOU	2045	CG1	VAL	B	414	4563	4190	3369	-1074	-313	-1646	C
ATOM	2046	CG2	VAL	B	414	13.590	-10.006	-29.588	1.00	28.46	C	
ANISOU	2046	CG2	VAL	B	414	3837	3799	3177	-893	-273	-1380	C
ATOM	2047	C	VAL	B	414	14.958	-13.532	-30.257	1.00	35.11	C	
ANISOU	2047	C	VAL	B	414	5209	4187	3946	-914	-25	-1742	C
ATOM	2048	O	VAL	B	414	16.029	-13.670	-30.835	1.00	35.73	O	
ANISOU	2048	O	VAL	B	414	5385	4238	3952	-784	89	-1784	O
ATOM	2049	N	ARG	B	415	14.009	-14.465	-30.261	1.00	37.91	N	
ANISOU	2049	N	ARG	B	415	5655	4449	4300	-1095	-89	-1844	N
ATOM	2050	CA	ARG	B	415	14.141	-15.699	-31.006	1.00	40.89	C	
ANISOU	2050	CA	ARG	B	415	6289	4669	4580	-1157	-43	-2026	C
ATOM	2051	CB	ARG	B	415	14.084	-16.913	-30.063	1.00	42.00	C	
ANISOU	2051	CB	ARG	B	415	6555	4547	4856	-1201	23	-2063	C
ATOM	2052	CG	ARG	B	415	15.271	-17.043	-29.108	1.00	41.66	C	
ANISOU	2052	CG	ARG	B	415	6513	4373	4942	-969	167	-1969	C
ATOM	2053	CD	ARG	B	415	16.615	-17.211	-29.848	1.00	43.44	C	
ANISOU	2053	CD	ARG	B	415	6857	4564	5085	-754	304	-2032	C
ATOM	2054	NE	ARG	B	415	17.736	-17.257	-28.906	1.00	44.27	N	
ANISOU	2054	NE	ARG	B	415	6911	4587	5323	-528	418	-1927	N
ATOM	2055	CZ	ARG	B	415	18.535	-16.226	-28.622	1.00	44.39	C	
ANISOU	2055	CZ	ARG	B	415	6727	4761	5378	-377	446	-1798	C
ATOM	2056	NH1	ARG	B	415	18.363	-15.052	-29.226	1.00	42.41	N	
ANISOU	2056	NH1	ARG	B	415	6333	4736	5045	-419	386	-1752	N
ATOM	2057	NH2	ARG	B	415	19.524	-16.371	-27.736	1.00	42.84	N	
ANISOU	2057	NH2	ARG	B	415	6481	4495	5301	-187	528	-1712	N
ATOM	2058	C	ARG	B	415	13.024	-15.753	-32.047	1.00	42.87	C	
ANISOU	2058	C	ARG	B	415	6576	5039	4676	-1373	-200	-2134	C
ATOM	2059	O	ARG	B	415	11.836	-15.538	-31.722	1.00	43.41	O	
ANISOU	2059	O	ARG	B	415	6496	5203	4795	-1543	-339	-2096	O
ATOM	2060	N	GLY	B	416	13.414	-16.003	-33.295	1.00	43.58	N	
ANISOU	2060	N	GLY	B	416	6847	5143	4569	-1359	-179	-2265	N
ATOM	2061	CA	GLY	B	416	12.471	-16.015	-34.399	1.00	44.83	C	
ANISOU	2061	CA	GLY	B	416	7057	5437	4540	-1552	-342	-2373	C
ATOM	2062	C	GLY	B	416	12.035	-14.620	-34.801	1.00	43.68	C	
ANISOU	2062	C	GLY	B	416	6698	5579	4320	-1531	-474	-2238	C
ATOM	2063	O	GLY	B	416	12.426	-13.636	-34.182	1.00	40.62	O	
ANISOU	2063	O	GLY	B	416	6131	5266	4039	-1383	-433	-2066	O
ATOM	2064	N	ASP	B	417	11.220	-14.550	-35.849	1.00	45.98	N	
ANISOU	2064	N	ASP	B	417	7025	6022	4422	-1682	-641	-2318	N
ATOM	2065	CA	ASP	B	417	10.713	-13.285	-36.381	1.00	46.13	C	
ANISOU	2065	CA	ASP	B	417	6873	6313	4341	-1660	-791	-2193	C
ATOM	2066	CB	ASP	B	417	10.301	-13.462	-37.856	1.00	49.03	C	
ANISOU	2066	CB	ASP	B	417	7403	6811	4417	-1778	-927	-2325	C
ATOM	2067	CG	ASP	B	417	11.490	-13.487	-38.803	1.00	49.91	C	
ANISOU	2067	CG	ASP	B	417	7750	6890	4322	-1638	-771	-2389	C
ATOM	2068	OD1	ASP	B	417	12.611	-13.144	-38.380	1.00	49.40	O	
ANISOU	2068	OD1	ASP	B	417	7671	6752	4348	-1440	-575	-2299	O
ATOM	2069	OD2	ASP	B	417	11.303	-13.843	-39.981	1.00	54.40	O	
ANISOU	2069	OD2	ASP	B	417	8515	7522	4632	-1731	-844	-2530	O
ATOM	2070	C	ASP	B	417	9.534	-12.731	-35.573	1.00	45.38	C	
ANISOU	2070	C	ASP	B	417	6492	6343	4409	-1743	-943	-2070	C
ATOM	2071	O	ASP	B	417	8.746	-13.487	-34.982	1.00	46.51	O	
ANISOU	2071	O	ASP	B	417	6586	6417	4670	-1916	-994	-2131	O
ATOM	2072	N	LEU	B	418	9.403	-11.409	-35.575	1.00	44.04	N	
ANISOU	2072	N	LEU	B	418	6141	6353	4239	-1621	-1007	-1897	N
ATOM	2073	CA	LEU	B	418	8.293	-10.755	-34.905	1.00	43.53	C	
ANISOU	2073	CA	LEU	B	418	5799	6428	4311	-1656	-1143	-1777	C
ATOM	2074	CB	LEU	B	418	8.810	-9.653	-33.980	1.00	40.59	C	

Figure 18 (continued)

ANISOU	2074	CB	LEU	B	418	5283	6046	4093	-1450	-1042	-1589	C
ATOM	2075	CG	LEU	B	418	9.808	-10.051	-32.878	1.00	38.75		C
ANISOU	2075	CG	LEU	B	418	5100	5593	4029	-1362	-833	-1577	C
ATOM	2076	CD1	LEU	B	418	10.306	-8.834	-32.112	1.00	35.47		C
ANISOU	2076	CD1	LEU	B	418	4554	5196	3728	-1178	-766	-1401	C
ATOM	2077	CD2	LEU	B	418	9.250	-11.068	-31.915	1.00	39.40		C
ANISOU	2077	CD2	LEU	B	418	5149	5552	4270	-1500	-811	-1642	C
ATOM	2078	C	LEU	B	418	7.241	-10.235	-35.898	1.00	45.84		C
ANISOU	2078	C	LEU	B	418	6001	6978	4439	-1735	-1384	-1763	C
ATOM	2079	O	LEU	B	418	7.535	-9.394	-36.757	1.00	46.01		O
ANISOU	2079	O	LEU	B	418	6071	7120	4290	-1621	-1431	-1691	O
ATOM	2080	N	ASN	B	419	6.020	-10.759	-35.773	1.00	47.64		N
ANISOU	2080	N	ASN	B	419	6094	7293	4714	-1936	-1539	-1827	N
ATOM	2081	CA	ASN	B	419	4.923	-10.448	-36.687	1.00	50.61		C
ANISOU	2081	CA	ASN	B	419	6358	7932	4940	-2038	-1799	-1833	C
ATOM	2082	CB	ASN	B	419	4.793	-11.549	-37.747	1.00	53.52		C
ANISOU	2082	CB	ASN	B	419	6955	8284	5095	-2259	-1891	-2052	C
ATOM	2083	CG	ASN	B	419	5.967	-11.586	-38.713	1.00	54.69		C
ANISOU	2083	CG	ASN	B	419	7420	8348	5013	-2152	-1783	-2116	C
ATOM	2084	OD1	ASN	B	419	6.257	-10.605	-39.409	1.00	55.78		O
ANISOU	2084	OD1	ASN	B	419	7577	8623	4994	-1997	-1823	-2005	O
ATOM	2085	ND2	ASN	B	419	6.645	-12.728	-38.767	1.00	55.63		N
ANISOU	2085	ND2	ASN	B	419	7797	8235	5105	-2228	-1634	-2293	N
ATOM	2086	C	ASN	B	419	3.565	-10.242	-35.997	1.00	51.57		C
ANISOU	2086	C	ASN	B	419	6141	8219	5233	-2130	-1940	-1764	C
ATOM	2087	O	ASN	B	419	2.515	-10.554	-36.574	1.00	54.24		O
ANISOU	2087	O	ASN	B	419	6375	8743	5492	-2316	-2156	-1834	O
ATOM	2088	N	PHE	B	420	3.590	-9.705	-34.776	1.00	49.62		N
ANISOU	2088	N	PHE	B	420	5719	7922	5214	-1998	-1820	-1630	N
ATOM	2089	CA	PHE	B	420	2.373	-9.504	-33.976	1.00	50.02		C
ANISOU	2089	CA	PHE	B	420	5439	8121	5445	-2058	-1900	-1560	C
ATOM	2090	CB	PHE	B	420	2.712	-9.101	-32.538	1.00	47.52		C
ANISOU	2090	CB	PHE	B	420	5026	7673	5357	-1910	-1701	-1445	C
ATOM	2091	CG	PHE	B	420	3.276	-10.218	-31.721	1.00	47.20		C
ANISOU	2091	CG	PHE	B	420	5137	7373	5425	-2025	-1514	-1537	C
ATOM	2092	CD1	PHE	B	420	4.620	-10.241	-31.399	1.00	44.34		C
ANISOU	2092	CD1	PHE	B	420	4992	6786	5070	-1880	-1326	-1527	C
ATOM	2093	CE1	PHE	B	420	5.152	-11.271	-30.647	1.00	43.10		C
ANISOU	2093	CE1	PHE	B	420	4980	6389	5008	-1957	-1165	-1597	C
ATOM	2094	CZ	PHE	B	420	4.344	-12.302	-30.207	1.00	45.97		C
ANISOU	2094	CZ	PHE	B	420	5299	6709	5458	-2199	-1177	-1678	C
ATOM	2095	CE2	PHE	B	420	2.993	-12.306	-30.516	1.00	48.22		C
ANISOU	2095	CE2	PHE	B	420	5362	7217	5743	-2379	-1352	-1696	C
ATOM	2096	CD2	PHE	B	420	2.461	-11.261	-31.273	1.00	49.98		C
ANISOU	2096	CD2	PHE	B	420	5411	7705	5873	-2283	-1527	-1627	C
ATOM	2097	C	PHE	B	420	1.406	-8.507	-34.584	1.00	51.27		C
ANISOU	2097	C	PHE	B	420	5363	8585	5534	-1978	-2129	-1452	C
ATOM	2098	O	PHE	B	420	1.809	-7.486	-35.147	1.00	50.92		O
ANISOU	2098	O	PHE	B	420	5373	8599	5374	-1767	-2166	-1341	O
ATOM	2099	N	VAL	B	421	0.124	-8.817	-34.417	1.00	53.07		N
ANISOU	2099	N	VAL	B	421	5320	9003	5842	-2148	-2275	-1475	N
ATOM	2100	CA	VAL	B	421	-0.949	-8.217	-35.197	1.00	55.35		C
ANISOU	2100	CA	VAL	B	421	5378	9617	6037	-2138	-2546	-1417	C
ATOM	2101	CB	VAL	B	421	-1.320	-9.170	-36.362	1.00	58.38		C
ANISOU	2101	CB	VAL	B	421	5876	10095	6212	-2420	-2749	-1597	C
ATOM	2102	CG1	VAL	B	421	-2.801	-9.548	-36.346	1.00	62.13		C
ANISOU	2102	CG1	VAL	B	421	6005	10842	6760	-2651	-2962	-1635	C
ATOM	2103	CG2	VAL	B	421	-0.857	-8.594	-37.696	1.00	59.48		C
ANISOU	2103	CG2	VAL	B	421	6222	10317	6062	-2293	-2882	-1575	C
ATOM	2104	C	VAL	B	421	-2.181	-7.818	-34.375	1.00	55.75		C
ANISOU	2104	C	VAL	B	421	5010	9876	6297	-2121	-2603	-1318	C
ATOM	2105	O	VAL	B	421	-2.233	-7.998	-33.161	1.00	53.74		O
ANISOU	2105	O	VAL	B	421	4650	9514	6255	-2128	-2419	-1295	O
ATOM	2106	N	ALA	B	424	-8.330	-7.054	-34.316	1.00	83.41		N
ANISOU	2106	N	ALA	B	424	6624	14886	10180	-2373	-3433	-1118	N
ATOM	2107	CA	ALA	B	424	-8.109	-5.823	-35.078	1.00	83.39		C
ANISOU	2107	CA	ALA	B	424	6684	14974	10028	-2016	-3575	-972	C
ATOM	2108	CB	ALA	B	424	-7.502	-4.750	-34.179	1.00	80.03		C
ANISOU	2108	CB	ALA	B	424	6321	14356	9729	-1638	-3328	-816	C
ATOM	2109	C	ALA	B	424	-7.235	-6.044	-36.325	1.00	83.09		C
ANISOU	2109	C	ALA	B	424	7065	14815	9689	-2072	-3692	-1054	C

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Figure 18 (continued)

ATOM	2110	O	ALA	B	424	-7.422	-5.385	-37.357	1.00	84.69	
ANISOU	2110	O	ALA	B	424	7275	15205	9698	-1925	-3931	-976
ATOM	2111	N	ASN	B	425	-6.283	-6.973	-36.206	1.00	81.03	
ANISOU	2111	N	ASN	B	425	7157	14244	9387	-2271	-3512	-1204
ATOM	2112	CA	ASN	B	425	-5.300	-7.305	-37.262	1.00	80.26	
ANISOU	2112	CA	ASN	B	425	7495	13986	9016	-2326	-3549	-1305
ATOM	2113	CB	ASN	B	425	-5.987	-7.797	-38.555	1.00	84.45	
ANISOU	2113	CB	ASN	B	425	8001	14775	9309	-2559	-3886	-1417
ATOM	2114	CG	ASN	B	425	-5.041	-8.595	-39.454	1.00	84.90	
ANISOU	2114	CG	ASN	B	425	8524	14628	9108	-2728	-3870	-1597
ATOM	2115	OD1	ASN	B	425	-4.463	-9.623	-39.028	1.00	84.50	
ANISOU	2115	OD1	ASN	B	425	8690	14300	9116	-2930	-3673	-1754
ATOM	2116	ND2	ASN	B	425	-4.880	-8.118	-40.700	1.00	86.24	
ANISOU	2116	ND2	ASN	B	425	8858	14929	8980	-2630	-4069	-1569
ATOM	2117	C	ASN	B	425	-4.251	-6.211	-37.547	1.00	77.13	
ANISOU	2117	C	ASN	B	425	7357	13442	8505	-1975	-3451	-1163
ATOM	2118	O	ASN	B	425	-3.579	-6.224	-38.607	1.00	77.12	
ANISOU	2118	O	ASN	B	425	7668	13393	8242	-1971	-3519	-1205
ATOM	2119	N	GLN	B	426	-4.098	-5.287	-36.579	1.00	74.28	
ANISOU	2119	N	GLN	B	426	6881	13003	8337	-1698	-3278	-1003
ATOM	2120	CA	GLN	B	426	-3.150	-4.184	-36.730	1.00	71.77	
ANISOU	2120	CA	GLN	B	426	6789	12536	7944	-1383	-3177	-858
ATOM	2121	CB	GLN	B	426	-3.642	-2.945	-35.979	1.00	71.41	
ANISOU	2121	CB	GLN	B	426	6489	12565	8078	-1069	-3143	-660
ATOM	2122	CG	GLN	B	426	-4.259	-1.900	-36.902	1.00	75.93	
ANISOU	2122	CG	GLN	B	426	6956	13384	8510	-844	-3402	-501
ATOM	2123	CD	GLN	B	426	-5.489	-1.238	-36.301	1.00	79.00	
ANISOU	2123	CD	GLN	B	426	6914	14008	9093	-664	-3487	-379
ATOM	2124	OE1	GLN	B	426	-5.395	-0.480	-35.325	1.00	77.23	
ANISOU	2124	OE1	GLN	B	426	6622	13667	9055	-431	-3303	-275
ATOM	2125	NE2	GLN	B	426	-6.657	-1.526	-36.882	1.00	82.04	
ANISOU	2125	NE2	GLN	B	426	7000	14737	9434	-772	-3766	-397
ATOM	2126	C	GLN	B	426	-1.744	-4.552	-36.272	1.00	67.70	
ANISOU	2126	C	GLN	B	426	6612	11664	7446	-1398	-2889	-925
ATOM	2127	O	GLN	B	426	-1.531	-4.823	-35.079	1.00	65.90	
ANISOU	2127	O	GLN	B	426	6334	11273	7433	-1414	-2675	-943
ATOM	2128	N	ARG	B	427	-0.793	-4.546	-37.212	1.00	66.20	
ANISOU	2128	N	ARG	B	427	6756	11371	7026	-1382	-2882	-954
ATOM	2129	CA	ARG	B	427	0.612	-4.844	-36.900	1.00	62.42	
ANISOU	2129	CA	ARG	B	427	6586	10583	6550	-1372	-2617	-1008
ATOM	2130	CB	ARG	B	427	1.461	-4.982	-38.166	1.00	63.31	
ANISOU	2130	CB	ARG	B	427	7032	10653	6369	-1395	-2643	-1064
ATOM	2131	CG	ARG	B	427	2.893	-5.323	-37.824	1.00	60.44	
ANISOU	2131	CG	ARG	B	427	6941	9997	6027	-1376	-2363	-1121
ATOM	2132	CD	ARG	B	427	3.839	-5.274	-38.987	1.00	62.17	
ANISOU	2132	CD	ARG	B	427	7475	10176	5972	-1350	-2335	-1148
ATOM	2133	NE	ARG	B	427	5.192	-5.498	-38.488	1.00	60.41	
ANISOU	2133	NE	ARG	B	427	7440	9693	5819	-1299	-2053	-1179
ATOM	2134	CZ	ARG	B	427	5.789	-6.686	-38.435	1.00	61.00	
ANISOU	2134	CZ	ARG	B	427	7681	9608	5886	-1440	-1921	-1360
ATOM	2135	NH1	ARG	B	427	5.165	-7.770	-38.880	1.00	62.69	
ANISOU	2135	NH1	ARG	B	427	7932	9872	6017	-1663	-2042	-1538
ATOM	2136	NH2	ARG	B	427	7.015	-6.789	-37.940	1.00	59.05	
ANISOU	2136	NH2	ARG	B	427	7568	9150	5718	-1357	-1675	-1364
ATOM	2137	C	ARG	B	427	1.276	-3.851	-35.925	1.00	58.46	
ANISOU	2137	C	ARG	B	427	6084	9911	6216	-1119	-2409	-857
ATOM	2138	O	ARG	B	427	1.461	-2.673	-36.244	1.00	58.25	
ANISOU	2138	O	ARG	B	427	6093	9913	6128	-892	-2441	-697
ATOM	2139	N	LEU	B	428	1.661	-4.365	-34.758	1.00	55.08	
ANISOU	2139	N	LEU	B	428	5646	9295	5987	-1171	-2200	-912
ATOM	2140	CA	LEU	B	428	2.179	-3.563	-33.637	1.00	51.23	
ANISOU	2140	CA	LEU	B	428	5136	8653	5678	-972	-2010	-796
ATOM	2141	CB	LEU	B	428	2.409	-4.453	-32.403	1.00	49.31	
ANISOU	2141	CB	LEU	B	428	4870	8241	5623	-1094	-1820	-888
ATOM	2142	CG	LEU	B	428	1.337	-5.465	-31.970	1.00	49.76	
ANISOU	2142	CG	LEU	B	428	4722	8398	5786	-1320	-1873	-988
ATOM	2143	CD1	LEU	B	428	1.713	-6.150	-30.667	1.00	44.96	
ANISOU	2143	CD1	LEU	B	428	4138	7589	5355	-1393	-1657	-1034
ATOM	2144	CD2	LEU	B	428	-0.032	-4.799	-31.836	1.00	52.31	
ANISOU	2144	CD2	LEU	B	428	4701	8986	6189	-1248	-2023	-893
ATOM	2145	C	LEU	B	428	3.472	-2.848	-33.998	1.00	48.96	

Figure 18 (continued)

ANISOU	2145	C	LEU B 428	5109	8206	5286	-819	-1897	-722	C
ATOM	2146	O	LEU B 428	4.238	-3.337	-34.840	1.00	49.40		O
ANISOU	2146	O	LEU B 428	5395	8205	5171	-902	-1877	-801	O
ATOM	2147	N	ASN B 429	3.711	-1.694	-33.375	1.00	46.41		N
ANISOU	2147	N	ASN B 429	4755	7813	5065	-605	-1817	-577	N
ATOM	2148	CA	ASN B 429	4.977	-1.001	-33.559	1.00	43.84		C
ANISOU	2148	CA	ASN B 429	4661	7322	4674	-490	-1689	-503	C
ATOM	2149	CB	ASN B 429	4.911	0.478	-33.085	1.00	43.47		C
ANISOU	2149	CB	ASN B 429	4569	7235	4712	-252	-1670	-326	C
ATOM	2150	CG	ASN B 429	4.794	0.641	-31.557	1.00	42.88		C
ANISOU	2150	CG	ASN B 429	4363	7053	4876	-193	-1534	-322	C
ATOM	2151	OD1	ASN B 429	4.994	-0.294	-30.774	1.00	42.00		O
ANISOU	2151	OD1	ASN B 429	4224	6868	4867	-321	-1425	-433	O
ATOM	2152	ND2	ASN B 429	4.489	1.865	-31.133	1.00	43.80		N
ANISOU	2152	ND2	ASN B 429	4425	7149	5068	13	-1537	-190	N
ATOM	2153	C	ASN B 429	6.117	-1.831	-32.934	1.00	40.62		C
ANISOU	2153	C	ASN B 429	4391	6708	4334	-590	-1479	-612	C
ATOM	2154	O	ASN B 429	5.847	-2.720	-32.118	1.00	40.12		O
ANISOU	2154	O	ASN B 429	4238	6603	4402	-701	-1423	-708	O
ATOM	2155	N	PRO B 430	7.376	-1.594	-33.358	1.00	38.69		N
ANISOU	2155	N	PRO B 430	4362	6345	3995	-554	-1365	-592	N
ATOM	2156	CA	PRO B 430	8.524	-2.378	-32.884	1.00	36.44		C
ANISOU	2156	CA	PRO B 430	4197	5886	3762	-622	-1177	-688	C
ATOM	2157	CB	PRO B 430	9.721	-1.573	-33.388	1.00	36.11		C
ANISOU	2157	CB	PRO B 430	4322	5772	3625	-531	-1078	-599	C
ATOM	2158	CG	PRO B 430	9.217	-1.000	-34.683	1.00	38.86		C
ANISOU	2158	CG	PRO B 430	4726	6273	3765	-501	-1232	-528	C
ATOM	2159	CD	PRO B 430	7.784	-0.603	-34.373	1.00	39.49		C
ANISOU	2159	CD	PRO B 430	4600	6481	3923	-451	-1407	-472	C
ATOM	2160	C	PRO B 430	8.614	-2.593	-31.371	1.00	34.07		C
ANISOU	2160	C	PRO B 430	3795	5462	3688	-612	-1058	-701	C
ATOM	2161	O	PRO B 430	8.953	-3.700	-30.951	1.00	33.84		O
ANISOU	2161	O	PRO B 430	3804	5342	3711	-716	-973	-815	O
ATOM	2162	N	MSE B 431	8.323	-1.571	-30.566	1.00	32.32		N
ANISOU	2162	N	MSE B 431	3467	5227	3587	-484	-1051	-588	N
ATOM	2163	CA	MSE B 431	8.460	-1.693	-29.110	1.00	30.33		C
ANISOU	2163	CA	MSE B 431	3144	4860	3520	-467	-933	-597	C
ATOM	2164	CB	MSE B 431	8.410	-0.314	-28.423	1.00	30.13		C
ANISOU	2164	CB	MSE B 431	3074	4793	3580	-299	-911	-470	C
ATOM	2165	CG	MSE B 431	9.687	0.570	-28.662	1.00	28.94		C
ANISOU	2165	CG	MSE B 431	3090	4524	3381	-227	-832	-394	C
ATOM	2166	SE	MSE B 431	11.365	-0.168	-27.993	0.90	30.04		SE
ANISOU	2166	SE	MSE B 431	3345	4495	3575	-303	-647	-469	SE
ATOM	2167	CE	MSE B 431	10.912	-0.117	-26.095	1.00	24.52		C
ANISOU	2167	CE	MSE B 431	2526	3717	3074	-261	-588	-475	C
ATOM	2168	C	MSE B 431	7.432	-2.651	-28.519	1.00	30.68		C
ANISOU	2168	C	MSE B 431	3039	4964	3655	-580	-963	-679	C
ATOM	2169	O	MSE B 431	7.735	-3.405	-27.597	1.00	29.00		O
ANISOU	2169	O	MSE B 431	2836	4642	3540	-644	-854	-738	O
ATOM	2170	N	HIS B 432	6.223	-2.634	-29.071	1.00	32.59		N
ANISOU	2170	N	HIS B 432	3139	5384	3859	-612	-1115	-677	N
ATOM	2171	CA	HIS B 432	5.147	-3.532	-28.631	1.00	33.91		C
ANISOU	2171	CA	HIS B 432	3137	5640	4109	-754	-1154	-751	C
ATOM	2172	CB	HIS B 432	3.767	-2.933	-28.954	1.00	36.00		C
ANISOU	2172	CB	HIS B 432	3166	6133	4378	-703	-1318	-688	C
ATOM	2173	CG	HIS B 432	3.389	-1.817	-28.034	1.00	37.73		C
ANISOU	2173	CG	HIS B 432	3252	6360	4722	-503	-1267	-573	C
ATOM	2174	ND1	HIS B 432	3.912	-0.546	-28.149	1.00	38.20		N
ANISOU	2174	ND1	HIS B 432	3408	6352	4753	-297	-1254	-461	N
ATOM	2175	CE1	HIS B 432	3.416	0.220	-27.191	1.00	39.33		C
ANISOU	2175	CE1	HIS B 432	3427	6494	5023	-146	-1198	-394	C
ATOM	2176	NE2	HIS B 432	2.611	-0.513	-26.443	1.00	40.30		N
ANISOU	2176	NE2	HIS B 432	3363	6697	5252	-246	-1161	-453	N
ATOM	2177	CD2	HIS B 432	2.578	-1.793	-26.950	1.00	40.85		C
ANISOU	2177	CD2	HIS B 432	3447	6806	5268	-481	-1207	-560	C
ATOM	2178	C	HIS B 432	5.320	-4.919	-29.218	1.00	33.99		C
ANISOU	2178	C	HIS B 432	3258	5618	4040	-966	-1169	-895	C
ATOM	2179	O	HIS B 432	4.875	-5.903	-28.645	1.00	34.07		O
ANISOU	2179	O	HIS B 432	3212	5601	4134	-1120	-1134	-973	O
ATOM	2180	N	GLN B 433	5.985	-4.971	-30.363	1.00	34.16		N
ANISOU	2180	N	GLN B 433	3456	5630	3893	-972	-1208	-928	N

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Figure 18 (continued)

ATOM	2181	CA	GLN	B	433	6.441	-6.214	-30.990	1.00	35.06	C	
ANISOU	2181	CA	GLN	B	433	3747	5667	3907	-1135	-1189	-1076	C
ATOM	2182	CB	GLN	B	433	7.210	-5.810	-32.268	1.00	35.84	C	
ANISOU	2182	CB	GLN	B	433	4029	5789	3799	-1070	-1217	-1069	C
ATOM	2183	CG	GLN	B	433	7.217	-6.698	-33.462	1.00	39.05	C	
ANISOU	2183	CG	GLN	B	433	4591	6231	4014	-1213	-1290	-1208	C
ATOM	2184	CD	GLN	B	433	5.848	-7.071	-33.976	1.00	42.97	C	
ANISOU	2184	CD	GLN	B	433	4958	6913	4453	-1371	-1501	-1267	C
ATOM	2185	OE1	GLN	B	433	5.439	-8.218	-33.828	1.00	44.60	O	
ANISOU	2185	OE1	GLN	B	433	5176	7077	4694	-1566	-1513	-1404	O
ATOM	2186	NE2	GLN	B	433	5.138	-6.124	-34.603	1.00	44.73	N	
ANISOU	2186	NE2	GLN	B	433	5063	7344	4587	-1294	-1676	-1164	N
ATOM	2187	C	GLN	B	433	7.344	-6.960	-29.970	1.00	32.64	C	
ANISOU	2187	C	GLN	B	433	3545	5136	3721	-1150	-995	-1123	C
ATOM	2188	O	GLN	B	433	7.122	-8.135	-29.653	1.00	33.52	O	
ANISOU	2188	O	GLN	B	433	3691	5166	3879	-1305	-963	-1228	O
ATOM	2189	N	LEU	B	434	8.341	-6.245	-29.452	1.00	30.05	N	
ANISOU	2189	N	LEU	B	434	3268	4710	3441	-990	-877	-1037	N
ATOM	2190	CA	LEU	B	434	9.293	-6.738	-28.427	1.00	28.11	C	
ANISOU	2190	CA	LEU	B	434	3102	4275	3305	-960	-710	-1051	C
ATOM	2191	CB	LEU	B	434	10.386	-5.685	-28.177	1.00	24.78	C	
ANISOU	2191	CB	LEU	B	434	2718	3801	2896	-791	-627	-949	C
ATOM	2192	CG	LEU	B	434	11.320	-5.482	-29.364	1.00	25.69	C	
ANISOU	2192	CG	LEU	B	434	2976	3925	2859	-752	-609	-959	C
ATOM	2193	CD1	LEU	B	434	12.113	-4.184	-29.212	1.00	22.35	C	
ANISOU	2193	CD1	LEU	B	434	2551	3492	2449	-617	-559	-833	C
ATOM	2194	CD2	LEU	B	434	12.245	-6.705	-29.605	1.00	21.91	C	
ANISOU	2194	CD2	LEU	B	434	2655	3326	2345	-797	-500	-1079	C
ATOM	2195	C	LEU	B	434	8.644	-7.100	-27.082	1.00	27.61	C	
ANISOU	2195	C	LEU	B	434	2919	4169	3404	-1009	-667	-1038	C
ATOM	2196	O	LEU	B	434	8.945	-8.142	-26.504	1.00	27.00	O	
ANISOU	2196	O	LEU	B	434	2924	3952	3382	-1083	-579	-1101	O
ATOM	2197	N	LEU	B	435	7.790	-6.207	-26.587	1.00	27.73	N	
ANISOU	2197	N	LEU	B	435	2752	4297	3485	-949	-716	-950	N
ATOM	2198	CA	LEU	B	435	7.020	-6.426	-25.375	1.00	28.98	C	
ANISOU	2198	CA	LEU	B	435	2775	4458	3779	-991	-669	-930	C
ATOM	2199	CB	LEU	B	435	6.102	-5.222	-25.124	1.00	28.92	C	
ANISOU	2199	CB	LEU	B	435	2567	4606	3816	-876	-730	-833	C
ATOM	2200	CG	LEU	B	435	5.273	-5.249	-23.842	1.00	32.08	C	
ANISOU	2200	CG	LEU	B	435	2806	5035	4346	-886	-657	-802	C
ATOM	2201	CD1	LEU	B	435	6.159	-5.150	-22.588	1.00	31.09	C	
ANISOU	2201	CD1	LEU	B	435	2790	4739	4284	-805	-505	-770	C
ATOM	2202	CD2	LEU	B	435	4.251	-4.124	-23.876	1.00	32.55	C	
ANISOU	2202	CD2	LEU	B	435	2657	5276	4437	-759	-732	-723	C
ATOM	2203	C	LEU	B	435	6.201	-7.743	-25.431	1.00	30.18	C	
ANISOU	2203	C	LEU	B	435	2897	4620	3949	-1216	-695	-1029	C
ATOM	2204	O	LEU	B	435	6.344	-8.595	-24.548	1.00	29.89	O	
ANISOU	2204	O	LEU	B	435	2917	4450	3988	-1295	-589	-1055	O
ATOM	2205	N	ARG	B	436	5.363	-7.905	-26.462	1.00	31.87	N	
ANISOU	2205	N	ARG	B	436	3035	4987	4086	-1327	-841	-1079	N
ATOM	2206	CA	ARG	B	436	4.545	-9.104	-26.599	1.00	34.36	C	
ANISOU	2206	CA	ARG	B	436	3319	5321	4414	-1575	-884	-1182	C
ATOM	2207	CB	ARG	B	436	3.584	-9.014	-27.800	1.00	37.45	C	
ANISOU	2207	CB	ARG	B	436	3591	5932	4704	-1679	-1087	-1225	C
ATOM	2208	CG	ARG	B	436	2.381	-8.053	-27.651	1.00	42.59	C	
ANISOU	2208	CG	ARG	B	436	3929	6839	5416	-1610	-1192	-1127	C
ATOM	2209	CD	ARG	B	436	1.953	-7.793	-26.187	1.00	48.03	C	
ANISOU	2209	CD	ARG	B	436	4449	7521	6280	-1555	-1056	-1045	C
ATOM	2210	NE	ARG	B	436	0.516	-8.001	-26.006	1.00	55.04	N	
ANISOU	2210	NE	ARG	B	436	5043	8622	7247	-1697	-1128	-1046	N
ATOM	2211	CZ	ARG	B	436	-0.097	-8.150	-24.827	1.00	58.20	C	
ANISOU	2211	CZ	ARG	B	436	5280	9046	7789	-1739	-1005	-1006	C
ATOM	2212	NH1	ARG	B	436	0.594	-8.108	-23.690	1.00	57.05	N	
ANISOU	2212	NH1	ARG	B	436	5256	8713	7706	-1645	-815	-964	N
ATOM	2213	NH2	ARG	B	436	-1.419	-8.336	-24.784	1.00	60.68	N	
ANISOU	2213	NH2	ARG	B	436	5297	9587	8172	-1880	-1073	-1007	N
ATOM	2214	C	ARG	B	436	5.378	-10.388	-26.679	1.00	33.35	C	
ANISOU	2214	C	ARG	B	436	3452	4963	4256	-1688	-796	-1293	C
ATOM	2215	O	ARG	B	436	4.996	-11.405	-26.118	1.00	33.93	O	
ANISOU	2215	O	ARG	B	436	3548	4941	4401	-1862	-742	-1344	O
ATOM	2216	N	HIS	B	437	6.510	-10.333	-27.376	1.00	31.27	N	

Figure 18 (continued)

ANISOU	2216	N	HIS	B	437	3388	4606	3887	-1584	-771	-1325	N
ATOM	2217	CA	HIS	B	437	7.375	-11.493	-27.486	1.00	30.46		C
ANISOU	2217	CA	HIS	B	437	3535	4282	3755	-1640	-676	-1429	C
ATOM	2218	CB	HIS	B	437	8.585	-11.176	-28.355	1.00	29.42		C
ANISOU	2218	CB	HIS	B	437	3569	4112	3499	-1490	-645	-1449	C
ATOM	2219	CG	HIS	B	437	9.604	-12.270	-28.367	1.00	29.25		C
ANISOU	2219	CG	HIS	B	437	3789	3861	3463	-1483	-520	-1543	C
ATOM	2220	ND1	HIS	B	437	9.469	-13.411	-29.135	1.00	30.43		N
ANISOU	2220	ND1	HIS	B	437	4121	3919	3524	-1636	-540	-1701	N
ATOM	2221	CE1	HIS	B	437	10.511	-14.195	-28.937	1.00	30.95		C
ANISOU	2221	CE1	HIS	B	437	4388	3767	3605	-1556	-401	-1752	C
ATOM	2222	NE2	HIS	B	437	11.318	-13.608	-28.068	1.00	28.06		N
ANISOU	2222	NE2	HIS	B	437	3956	3372	3333	-1368	-306	-1628	N
ATOM	2223	CD2	HIS	B	437	10.769	-12.407	-27.692	1.00	28.33		C
ANISOU	2223	CD2	HIS	B	437	3765	3589	3411	-1332	-377	-1504	C
ATOM	2224	C	HIS	B	437	7.870	-11.985	-26.129	1.00	28.91		C
ANISOU	2224	C	HIS	B	437	3395	3896	3694	-1603	-520	-1385	C
ATOM	2225	O	HIS	B	437	7.863	-13.189	-25.851	1.00	29.06		O
ANISOU	2225	O	HIS	B	437	3551	3745	3744	-1735	-462	-1459	O
ATOM	2226	N	PHE	B	438	8.358	-11.040	-25.329	1.00	26.73		N
ANISOU	2226	N	PHE	B	438	3039	3636	3480	-1419	-459	-1264	N
ATOM	2227	CA	PHE	B	438	8.937	-11.304	-24.028	1.00	25.80		C
ANISOU	2227	CA	PHE	B	438	2974	3366	3465	-1349	-329	-1204	C
ATOM	2228	CB	PHE	B	438	9.963	-10.216	-23.649	1.00	23.35		C
ANISOU	2228	CB	PHE	B	438	2648	3063	3161	-1126	-284	-1110	C
ATOM	2229	CG	PHE	B	438	11.265	-10.342	-24.421	1.00	22.62		C
ANISOU	2229	CG	PHE	B	438	2709	2894	2992	-1025	-250	-1151	C
ATOM	2230	CD1	PHE	B	438	11.950	-11.575	-24.458	1.00	24.84		C
ANISOU	2230	CD1	PHE	B	438	3175	2995	3269	-1043	-173	-1228	C
ATOM	2231	CE1	PHE	B	438	13.122	-11.730	-25.196	1.00	23.69		C
ANISOU	2231	CE1	PHE	B	438	3151	2795	3054	-935	-123	-1274	C
ATOM	2232	CZ	PHE	B	438	13.623	-10.638	-25.892	1.00	23.06		C
ANISOU	2232	CZ	PHE	B	438	3011	2846	2905	-836	-146	-1233	C
ATOM	2233	CE2	PHE	B	438	12.934	-9.427	-25.889	1.00	20.07		C
ANISOU	2233	CE2	PHE	B	438	2476	2627	2525	-836	-232	-1152	C
ATOM	2234	CD2	PHE	B	438	11.757	-9.288	-25.168	1.00	20.56		C
ANISOU	2234	CD2	PHE	B	438	2415	2738	2659	-917	-286	-1115	C
ATOM	2235	C	PHE	B	438	7.911	-11.559	-22.925	1.00	27.49		C
ANISOU	2235	C	PHE	B	438	3066	3597	3782	-1462	-296	-1158	C
ATOM	2236	O	PHE	B	438	8.232	-12.211	-21.936	1.00	27.88		O
ANISOU	2236	O	PHE	B	438	3210	3490	3892	-1471	-192	-1132	O
ATOM	2237	N	GLN	B	439	6.680	-11.078	-23.096	1.00	29.49		N
ANISOU	2237	N	GLN	B	439	3108	4045	4051	-1546	-381	-1143	N
ATOM	2238	CA	GLN	B	439	5.604	-11.431	-22.158	1.00	31.31		C
ANISOU	2238	CA	GLN	B	439	3202	4318	4377	-1685	-336	-1111	C
ATOM	2239	CB	GLN	B	439	4.397	-10.507	-22.312	1.00	31.66		C
ANISOU	2239	CB	GLN	B	439	2958	4625	4445	-1684	-425	-1067	C
ATOM	2240	CG	GLN	B	439	4.664	-9.127	-21.740	1.00	31.16		C
ANISOU	2240	CG	GLN	B	439	2805	4631	4404	-1437	-393	-961	C
ATOM	2241	CD	GLN	B	439	3.554	-8.135	-21.987	1.00	35.12		C
ANISOU	2241	CD	GLN	B	439	3041	5378	4926	-1380	-482	-914	C
ATOM	2242	OE1	GLN	B	439	2.791	-8.271	-22.941	1.00	39.50		O
ANISOU	2242	OE1	GLN	B	439	3478	6083	5446	-1486	-616	-957	O
ATOM	2243	NE2	GLN	B	439	3.451	-7.121	-21.115	1.00	33.78		N
ANISOU	2243	NE2	GLN	B	439	2777	5251	4808	-1202	-413	-827	N
ATOM	2244	C	GLN	B	439	5.233	-12.903	-22.334	1.00	33.82		C
ANISOU	2244	C	GLN	B	439	3637	4511	4701	-1941	-324	-1206	C
ATOM	2245	O	GLN	B	439	4.854	-13.575	-21.370	1.00	33.96		O
ANISOU	2245	O	GLN	B	439	3667	4441	4794	-2059	-225	-1176	O
ATOM	2246	N	LYS	B	440	5.402	-13.399	-23.562	1.00	35.41		N
ANISOU	2246	N	LYS	B	440	3956	4685	4812	-2025	-415	-1321	N
ATOM	2247	CA	LYS	B	440	5.169	-14.800	-23.882	1.00	38.51		C
ANISOU	2247	CA	LYS	B	440	4517	4922	5193	-2267	-412	-1437	C
ATOM	2248	CB	LYS	B	440	5.054	-14.997	-25.392	1.00	40.39		C
ANISOU	2248	CB	LYS	B	440	4818	5225	5302	-2360	-556	-1571	C
ATOM	2249	CG	LYS	B	440	3.714	-14.593	-25.976	1.00	42.28		C
ANISOU	2249	CG	LYS	B	440	4794	5744	5525	-2519	-721	-1588	C
ATOM	2250	CD	LYS	B	440	3.577	-15.162	-27.360	1.00	46.14		C
ANISOU	2250	CD	LYS	B	440	5410	6249	5872	-2677	-861	-1746	C
ATOM	2251	CE	LYS	B	440	3.177	-16.611	-27.299	1.00	48.55		C
ANISOU	2251	CE	LYS	B	440	5873	6370	6205	-2981	-837	-1868	C

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Figure 18 (continued)

ATOM	2252	NZ	LYS	B	440	3.494	-17.274	-28.574	1.00	52.80	N	
ANISOU	2252	NZ	LYS	B	440	6658	6823	6582	-3080	-924	-2045	N
ATOM	2253	C	LYS	B	440	6.248	-15.714	-23.330	1.00	38.27	C	
ANISOU	2253	C	LYS	B	440	4773	4586	5181	-2209	-273	-1446	C
ATOM	2254	O	LYS	B	440	5.963	-16.802	-22.818	1.00	39.92	O	
ANISOU	2254	O	LYS	B	440	5104	4621	5443	-2385	-203	-1469	O
ATOM	2255	N	ASP	B	441	7.490	-15.259	-23.433	1.00	37.00	N	
ANISOU	2255	N	ASP	B	441	4716	4363	4979	-1961	-233	-1420	N
ATOM	2256	CA	ASP	B	441	8.646	-16.065	-23.061	1.00	36.98	C	
ANISOU	2256	CA	ASP	B	441	4970	4096	4985	-1856	-118	-1430	C
ATOM	2257	CB	ASP	B	441	9.051	-17.038	-24.186	1.00	39.34	C	
ANISOU	2257	CB	ASP	B	441	5510	4241	5196	-1921	-132	-1587	C
ATOM	2258	CG	ASP	B	441	10.054	-18.065	-23.712	1.00	41.85	C	
ANISOU	2258	CG	ASP	B	441	6096	4260	5544	-1824	-5	-1598	C
ATOM	2259	OD1	ASP	B	441	10.678	-17.827	-22.647	1.00	45.44	O	
ANISOU	2259	OD1	ASP	B	441	6535	4664	6067	-1657	74	-1472	O
ATOM	2260	OD2	ASP	B	441	10.223	-19.107	-24.371	1.00	44.75	O	
ANISOU	2260	OD2	ASP	B	441	6700	4440	5864	-1905	13	-1729	O
ATOM	2261	C	ASP	B	441	9.820	-15.187	-22.699	1.00	33.68	C	
ANISOU	2261	C	ASP	B	441	4532	3698	4566	-1573	-72	-1339	C
ATOM	2262	O	ASP	B	441	10.467	-14.624	-23.570	1.00	33.22	O	
ANISOU	2262	O	ASP	B	441	4476	3713	4433	-1450	-108	-1370	O
ATOM	2263	N	ALA	B	442	10.076	-15.111	-21.398	1.00	31.93	N	
ANISOU	2263	N	ALA	B	442	4298	3412	4421	-1490	9	-1227	N
ATOM	2264	CA	ALA	B	442	11.092	-14.273	-20.794	1.00	29.34	C	
ANISOU	2264	CA	ALA	B	442	3931	3110	4105	-1256	44	-1131	C
ATOM	2265	CB	ALA	B	442	10.565	-13.725	-19.499	1.00	28.01	C	
ANISOU	2265	CB	ALA	B	442	3635	3010	3996	-1252	75	-1017	C
ATOM	2266	C	ALA	B	442	12.362	-15.072	-20.530	1.00	29.14	C	
ANISOU	2266	C	ALA	B	442	4112	2874	4085	-1118	122	-1131	C
ATOM	2267	O	ALA	B	442	13.360	-14.523	-20.065	1.00	28.18	O	
ANISOU	2267	O	ALA	B	442	3967	2766	3973	-928	144	-1060	O
ATOM	2268	N	LYS	B	443	12.312	-16.375	-20.791	1.00	30.53	N	
ANISOU	2268	N	LYS	B	443	4490	2851	4260	-1214	161	-1209	N
ATOM	2269	CA	LYS	B	443	13.417	-17.281	-20.437	1.00	30.65	C	
ANISOU	2269	CA	LYS	B	443	4716	2636	4292	-1068	243	-1199	C
ATOM	2270	CB	LYS	B	443	13.107	-18.727	-20.819	1.00	32.70	C	
ANISOU	2270	CB	LYS	B	443	5223	2653	4549	-1211	284	-1301	C
ATOM	2271	CG	LYS	B	443	12.149	-19.457	-19.915	1.00	34.47	C	
ANISOU	2271	CG	LYS	B	443	5515	2754	4829	-1415	319	-1250	C
ATOM	2272	CD	LYS	B	443	11.797	-20.833	-20.531	1.00	39.27	C	
ANISOU	2272	CD	LYS	B	443	6384	3113	5426	-1597	346	-1379	C
ATOM	2273	CE	LYS	B	443	10.531	-21.410	-19.929	1.00	42.83	C	
ANISOU	2273	CE	LYS	B	443	6847	3503	5925	-1897	362	-1351	C
ATOM	2274	NZ	LYS	B	443	9.967	-22.468	-20.802	1.00	49.83	N	
ANISOU	2274	NZ	LYS	B	443	7928	4218	6787	-2143	348	-1509	N
ATOM	2275	C	LYS	B	443	14.752	-16.877	-21.049	1.00	29.07	C	
ANISOU	2275	C	LYS	B	443	4516	2473	4056	-835	255	-1220	C
ATOM	2276	O	LYS	B	443	15.765	-16.817	-20.355	1.00	28.19	O	
ANISOU	2276	O	LYS	B	443	4414	2317	3978	-643	293	-1137	O
ATOM	2277	N	VAL	B	444	14.760	-16.582	-22.341	1.00	28.47	N	
ANISOU	2277	N	VAL	B	444	4419	2495	3904	-857	219	-1324	N
ATOM	2278	CA	VAL	B	444	15.989	-16.171	-23.001	1.00	27.62	C	
ANISOU	2278	CA	VAL	B	444	4298	2443	3753	-657	251	-1342	C
ATOM	2279	CB	VAL	B	444	15.844	-16.164	-24.546	1.00	29.10	C	
ANISOU	2279	CB	VAL	B	444	4535	2697	3822	-721	229	-1480	C
ATOM	2280	CG1	VAL	B	444	17.165	-15.772	-25.210	1.00	27.34	C	
ANISOU	2280	CG1	VAL	B	444	4300	2538	3551	-514	294	-1491	C
ATOM	2281	CG2	VAL	B	444	15.361	-17.547	-25.079	1.00	29.33	C	
ANISOU	2281	CG2	VAL	B	444	4809	2521	3814	-859	251	-1625	C
ATOM	2282	C	VAL	B	444	16.469	-14.798	-22.492	1.00	26.53	C	
ANISOU	2282	C	VAL	B	444	3944	2494	3640	-540	221	-1220	C
ATOM	2283	O	VAL	B	444	17.678	-14.605	-22.233	1.00	26.44	O	
ANISOU	2283	O	VAL	B	444	3908	2485	3653	-353	265	-1171	O
ATOM	2284	N	LEU	B	445	15.527	-13.866	-22.343	1.00	24.58	N	
ANISOU	2284	N	LEU	B	445	3544	2404	3392	-651	144	-1177	N
ATOM	2285	CA	LEU	B	445	15.783	-12.541	-21.821	1.00	23.69	C	
ANISOU	2285	CA	LEU	B	445	3257	2443	3302	-569	112	-1072	C
ATOM	2286	CB	LEU	B	445	14.471	-11.724	-21.792	1.00	22.83	C	
ANISOU	2286	CB	LEU	B	445	3011	2476	3188	-699	34	-1048	C
ATOM	2287	CG	LEU	B	445	14.528	-10.302	-21.202	1.00	20.40	C	

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Figure 18 (continued)

ANISOU	2287	CG	LEU	B	445	2549	2300	2903	-624	1	-949	C
ATOM	2288	CD1	LEU	B	445	15.452	-9.445	-22.022	1.00	20.80		C
ANISOU	2288	CD1	LEU	B	445	2565	2433	2905	-525	-8	-942	C
ATOM	2289	CD2	LEU	B	445	13.139	-9.660	-21.107	1.00	21.01		C
ANISOU	2289	CD2	LEU	B	445	2499	2498	2987	-724	-59	-929	C
ATOM	2290	C	LEU	B	445	16.386	-12.568	-20.405	1.00	23.63		C
ANISOU	2290	C	LEU	B	445	3244	2369	3367	-464	143	-970	C
ATOM	2291	O	LEU	B	445	17.378	-11.894	-20.145	1.00	23.04		O
ANISOU	2291	O	LEU	B	445	3098	2354	3304	-332	144	-914	O
ATOM	2292	N	PHE	B	446	15.749	-13.322	-19.503	1.00	24.55		N
ANISOU	2292	N	PHE	B	446	3434	2372	3522	-540	163	-944	N
ATOM	2293	CA	PHE	B	446	16.165	-13.405	-18.103	1.00	24.13		C
ANISOU	2293	CA	PHE	B	446	3400	2257	3510	-456	185	-840	C
ATOM	2294	CB	PHE	B	446	15.065	-14.052	-17.240	1.00	24.76		C
ANISOU	2294	CB	PHE	B	446	3545	2251	3610	-600	213	-806	C
ATOM	2295	CG	PHE	B	446	13.941	-13.121	-16.834	1.00	24.29		C
ANISOU	2295	CG	PHE	B	446	3329	2348	3552	-706	187	-774	C
ATOM	2296	CD1	PHE	B	446	13.834	-11.833	-17.342	1.00	23.90		C
ANISOU	2296	CD1	PHE	B	446	3118	2476	3486	-675	130	-782	C
ATOM	2297	CE1	PHE	B	446	12.781	-10.995	-16.975	1.00	24.51		C
ANISOU	2297	CE1	PHE	B	446	3058	2686	3570	-740	113	-754	C
ATOM	2298	CZ	PHE	B	446	11.834	-11.441	-16.088	1.00	25.45		C
ANISOU	2298	CZ	PHE	B	446	3177	2782	3710	-847	166	-718	C
ATOM	2299	CE2	PHE	B	446	11.922	-12.724	-15.582	1.00	26.97		C
ANISOU	2299	CE2	PHE	B	446	3531	2804	3914	-908	228	-704	C
ATOM	2300	CD2	PHE	B	446	12.973	-13.555	-15.954	1.00	26.27		C
ANISOU	2300	CD2	PHE	B	446	3601	2560	3821	-831	232	-730	C
ATOM	2301	C	PHE	B	446	17.483	-14.179	-17.956	1.00	24.88		C
ANISOU	2301	C	PHE	B	446	3609	2223	3621	-283	225	-826	C
ATOM	2302	O	PHE	B	446	18.356	-13.744	-17.220	1.00	24.61		O
ANISOU	2302	O	PHE	B	446	3518	2231	3603	-148	207	-746	O
ATOM	2303	N	GLN	B	447	17.622	-15.313	-18.650	1.00	26.27		N
ANISOU	2303	N	GLN	B	447	3944	2245	3792	-281	275	-907	N
ATOM	2304	CA	GLN	B	447	18.836	-16.149	-18.568	1.00	27.60		C
ANISOU	2304	CA	GLN	B	447	4228	2275	3983	-85	326	-899	C
ATOM	2305	CB	GLN	B	447	18.612	-17.566	-19.132	1.00	29.38		C
ANISOU	2305	CB	GLN	B	447	4694	2267	4204	-123	392	-993	C
ATOM	2306	CG	GLN	B	447	17.510	-18.396	-18.464	1.00	30.32		C
ANISOU	2306	CG	GLN	B	447	4963	2215	4340	-306	406	-972	C
ATOM	2307	CD	GLN	B	447	17.823	-18.852	-17.033	1.00	33.13		C
ANISOU	2307	CD	GLN	B	447	5407	2450	4733	-211	422	-829	C
ATOM	2308	OE1	GLN	B	447	18.625	-18.249	-16.326	1.00	34.35		O
ANISOU	2308	OE1	GLN	B	447	5450	2708	4895	-47	387	-731	O
ATOM	2309	NE2	GLN	B	447	17.167	-19.921	-16.603	1.00	33.37		N
ANISOU	2309	NE2	GLN	B	447	5644	2258	4776	-332	469	-814	N
ATOM	2310	C	GLN	B	447	20.092	-15.516	-19.196	1.00	27.69		C
ANISOU	2310	C	GLN	B	447	4114	2418	3988	88	332	-910	C
ATOM	2311	O	GLN	B	447	21.206	-15.860	-18.819	1.00	28.70		O
ANISOU	2311	O	GLN	B	447	4248	2505	4150	282	355	-863	O
ATOM	2312	N	ASN	B	448	19.912	-14.574	-20.117	1.00	28.11		N
ANISOU	2312	N	ASN	B	448	4044	2639	3997	20	310	-961	N
ATOM	2313	CA	ASN	B	448	21.036	-13.924	-20.791	1.00	28.81		C
ANISOU	2313	CA	ASN	B	448	4012	2863	4073	147	333	-967	C
ATOM	2314	CB	ASN	B	448	20.855	-13.960	-22.313	1.00	30.00		C
ANISOU	2314	CB	ASN	B	448	4206	3050	4141	92	375	-1087	C
ATOM	2315	CG	ASN	B	448	21.087	-15.348	-22.884	1.00	33.62		C
ANISOU	2315	CG	ASN	B	448	4871	3323	4581	157	462	-1194	C
ATOM	2316	OD1	ASN	B	448	22.214	-15.833	-22.902	1.00	36.46		O
ANISOU	2316	OD1	ASN	B	448	5249	3635	4969	354	538	-1194	O
ATOM	2317	ND2	ASN	B	448	20.022	-16.002	-23.324	1.00	35.23		N
ANISOU	2317	ND2	ASN	B	448	5229	3417	4739	-5	449	-1287	N
ATOM	2318	C	ASN	B	448	21.345	-12.521	-20.310	1.00	27.59		C
ANISOU	2318	C	ASN	B	448	3659	2892	3933	147	269	-877	C
ATOM	2319	O	ASN	B	448	22.364	-11.957	-20.700	1.00	28.46		O
ANISOU	2319	O	ASN	B	448	3654	3115	4046	238	290	-863	O
ATOM	2320	N	TRP	B	449	20.496	-11.979	-19.431	1.00	27.14		N
ANISOU	2320	N	TRP	B	449	3567	2857	3886	45	203	-819	N
ATOM	2321	CA	TRP	B	449	20.598	-10.569	-18.976	1.00	25.11		C
ANISOU	2321	CA	TRP	B	449	3159	2749	3634	23	140	-751	C
ATOM	2322	CB	TRP	B	449	19.384	-10.193	-18.115	1.00	23.06		C
ANISOU	2322	CB	TRP	B	449	2904	2486	3374	-89	95	-715	C

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Figure 18 (continued)

ATOM	2323	CG	TRP	B	449	19.356	-8.762	-17.660	1.00	22.27	
ANISOU	2323	CG	TRP	B	449	2686	2504	3269	-109	39	-663
ATOM	2324	CD1	TRP	B	449	19.742	-8.290	-16.438	1.00	20.41	
ANISOU	2324	CD1	TRP	B	449	2424	2285	3047	-68	-1	-596
ATOM	2325	NE1	TRP	B	449	19.559	-6.921	-16.377	1.00	20.85	
ANISOU	2325	NE1	TRP	B	449	2400	2431	3090	-109	-42	-580
ATOM	2326	CE2	TRP	B	449	19.051	-6.475	-17.580	1.00	20.31	
ANISOU	2326	CE2	TRP	B	449	2300	2412	3004	-163	-32	-620
ATOM	2327	CD2	TRP	B	449	18.911	-7.599	-18.423	1.00	20.86	
ANISOU	2327	CD2	TRP	B	449	2430	2431	3064	-171	12	-676
ATOM	2328	CE3	TRP	B	449	18.388	-7.415	-19.723	1.00	22.46	
ANISOU	2328	CE3	TRP	B	449	2627	2683	3225	-229	16	-727
ATOM	2329	CZ3	TRP	B	449	18.032	-6.099	-20.146	1.00	19.45	
ANISOU	2329	CZ3	TRP	B	449	2176	2397	2819	-261	-26	-701
ATOM	2330	CH2	TRP	B	449	18.184	-5.005	-19.271	1.00	20.17	
ANISOU	2330	CH2	TRP	B	449	2218	2512	2935	-242	-59	-641
ATOM	2331	CZ2	TRP	B	449	18.683	-5.166	-17.992	1.00	19.60	
ANISOU	2331	CZ2	TRP	B	449	2154	2396	2896	-202	-64	-609
ATOM	2332	C	TRP	B	449	21.897	-10.183	-18.247	1.00	25.56	
ANISOU	2332	C	TRP	B	449	3119	2864	3729	148	117	-678
ATOM	2333	O	TRP	B	449	22.382	-9.027	-18.344	1.00	25.79	
ANISOU	2333	O	TRP	B	449	3020	3020	3758	135	84	-649
ATOM	2334	N	GLY	B	450	22.478	-11.120	-17.510	1.00	25.38	
ANISOU	2334	N	GLY	B	450	3157	2749	3739	265	124	-642
ATOM	2335	CA	GLY	B	450	23.632	-10.745	-16.694	1.00	23.99	
ANISOU	2335	CA	GLY	B	450	2870	2652	3595	375	71	-565
ATOM	2336	C	GLY	B	450	23.294	-10.879	-15.215	1.00	22.88	
ANISOU	2336	C	GLY	B	450	2794	2456	3443	373	4	-488
ATOM	2337	O	GLY	B	450	22.203	-10.500	-14.778	1.00	21.96	
ANISOU	2337	O	GLY	B	450	2726	2323	3294	250	-10	-485
ATOM	2338	N	ILE	B	451	24.230	-11.444	-14.467	1.00	23.43	
ANISOU	2338	N	ILE	B	451	2862	2506	3532	521	-32	-423
ATOM	2339	CA	ILE	B	451	24.085	-11.705	-13.026	1.00	23.62	
ANISOU	2339	CA	ILE	B	451	2972	2480	3523	547	-99	-335
ATOM	2340	CB	ILE	B	451	24.108	-13.262	-12.731	1.00	25.59	
ANISOU	2340	CB	ILE	B	451	3405	2536	3781	668	-54	-296
ATOM	2341	CG1	ILE	B	451	23.397	-13.628	-11.415	1.00	23.95	
ANISOU	2341	CG1	ILE	B	451	3355	2232	3512	625	-81	-211
ATOM	2342	CD1	ILE	B	451	21.902	-13.753	-11.539	1.00	21.00	
ANISOU	2342	CD1	ILE	B	451	3094	1771	3115	435	-5	-253
ATOM	2343	CG2	ILE	B	451	25.512	-13.822	-12.743	1.00	26.15	
ANISOU	2343	CG2	ILE	B	451	3411	2625	3899	895	-78	-254
ATOM	2344	C	ILE	B	451	25.203	-10.957	-12.295	1.00	23.68	
ANISOU	2344	C	ILE	B	451	2829	2639	3529	616	-211	-274
ATOM	2345	O	ILE	B	451	26.284	-10.721	-12.867	1.00	24.64	
ANISOU	2345	O	ILE	B	451	2790	2871	3701	694	-221	-284
ATOM	2346	N	GLU	B	452	24.948	-10.545	-11.062	1.00	22.87	
ANISOU	2346	N	GLU	B	452	2770	2558	3363	573	-294	-217
ATOM	2347	CA	GLU	B	452	25.953	-9.818	-10.284	1.00	23.14	
ANISOU	2347	CA	GLU	B	452	2678	2738	3377	610	-425	-170
ATOM	2348	CB	GLU	B	452	25.784	-8.289	-10.406	1.00	22.01	
ANISOU	2348	CB	GLU	B	452	2434	2709	3218	450	-462	-223
ATOM	2349	CG	GLU	B	452	24.512	-7.724	-9.739	1.00	20.85	
ANISOU	2349	CG	GLU	B	452	2420	2510	2993	324	-449	-239
ATOM	2350	CD	GLU	B	452	24.217	-6.272	-10.076	1.00	22.01	
ANISOU	2350	CD	GLU	B	452	2499	2725	3137	190	-457	-300
ATOM	2351	OE1	GLU	B	452	25.104	-5.613	-10.663	1.00	27.18	
ANISOU	2351	OE1	GLU	B	452	3010	3475	3841	169	-493	-317
ATOM	2352	OE2	GLU	B	452	23.097	-5.773	-9.748	1.00	23.75	
ANISOU	2352	OE2	GLU	B	452	2812	2904	3310	108	-421	-326
ATOM	2353	C	GLU	B	452	25.850	-10.194	-8.828	1.00	24.13	
ANISOU	2353	C	GLU	B	452	2934	2823	3413	655	-507	-83
ATOM	2354	O	GLU	B	452	24.765	-10.560	-8.354	1.00	23.91	
ANISOU	2354	O	GLU	B	452	3081	2678	3325	593	-450	-69
ATOM	2355	N	AHIS	B	453	26.975	-10.085	-8.119	0.50	25.47	
ANISOU	2355	N	AHIS	B	453	3010	3104	3564	753	-642	-21
ATOM	2356	N	BHIS	B	453	26.985	-10.127	-8.136	0.50	25.61	
ANISOU	2356	N	BHIS	B	453	3029	3119	3584	758	-640	-20
ATOM	2357	CA	AHIS	B	453	27.020	-10.189	-6.668	0.50	26.91	
ANISOU	2357	CA	AHIS	B	453	3303	3295	3629	785	-756	64
ATOM	2358	CA	BHIS	B	453	27.023	-10.168	-6.690	0.50	27.08	

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Figure 18 (continued)

ANISOU	2358	CA	BHIS	B	453	3319	3317	3651	783	-755	61	C
ATOM	2359	CB	AHIS	B	453	28.450	-10.463	-6.189	0.50	28.79		C
ANISOU	2359	CB	AHIS	B	453	3408	3656	3874	952	-909	143	C
ATOM	2360	CB	BHIS	B	453	28.476	-10.182	-6.188	0.50	29.00		C
ANISOU	2360	CB	BHIS	B	453	3408	3713	3899	919	-922	129	C
ATOM	2361	CG	AHIS	B	453	28.526	-10.925	-4.767	0.50	30.03		C
ANISOU	2361	CG	AHIS	B	453	3716	3797	3897	1033	-1027	254	C
ATOM	2362	CG	BHIS	B	453	29.316	-11.302	-6.740	0.50	30.90		C
ANISOU	2362	CG	BHIS	B	453	3578	3926	4237	1140	-898	180	C
ATOM	2363	ND1	AHIS	B	453	29.035	-10.142	-3.753	0.50	30.65		N
ANISOU	2363	ND1	AHIS	B	453	3748	4029	3869	987	-1204	274	N
ATOM	2364	ND1	BHIS	B	453	29.448	-12.521	-6.107	0.50	32.82		N
ANISOU	2364	ND1	BHIS	B	453	3973	4053	4444	1327	-921	290	N
ATOM	2365	CE1	AHIS	B	453	28.956	-10.802	-2.613	0.50	31.81		C
ANISOU	2365	CE1	AHIS	B	453	4076	4127	3883	1080	-1278	384	C
ATOM	2366	CE1	BHIS	B	453	30.259	-13.295	-6.810	0.50	33.79		C
ANISOU	2366	CE1	BHIS	B	453	3997	4166	4676	1525	-885	307	C
ATOM	2367	NE2	AHIS	B	453	28.403	-11.980	-2.849	0.50	31.22		N
ANISOU	2367	NE2	AHIS	B	453	4168	3857	3836	1177	-1145	441	N
ATOM	2368	NE2	BHIS	B	453	30.665	-12.623	-7.871	0.50	32.37		N
ANISOU	2368	NE2	BHIS	B	453	3598	4108	4594	1462	-832	212	N
ATOM	2369	CD2	AHIS	B	453	28.125	-12.081	-4.187	0.50	29.97		C
ANISOU	2369	CD2	AHIS	B	453	3930	3629	3828	1144	-992	352	C
ATOM	2370	CD2	BHIS	B	453	30.092	-11.374	-7.852	0.50	31.63		C
ANISOU	2370	CD2	BHIS	B	453	3473	4089	4457	1217	-845	138	C
ATOM	2371	C	AHIS	B	453	26.479	-8.902	-6.033	0.50	26.48		C
ANISOU	2371	C	AHIS	B	453	3268	3310	3482	609	-804	15	C
ATOM	2372	C	BHIS	B	453	26.269	-8.928	-6.168	0.50	26.24		C
ANISOU	2372	C	BHIS	B	453	3253	3258	3458	595	-774	5	C
ATOM	2373	O	AHIS	B	453	26.801	-7.795	-6.474	0.50	26.15		O
ANISOU	2373	O	AHIS	B	453	3082	3376	3477	510	-837	-54	O
ATOM	2374	O	BHIS	B	453	26.205	-7.888	-6.829	0.50	25.07		O
ANISOU	2374	O	BHIS	B	453	2993	3176	3357	478	-757	-78	O
ATOM	2375	N	ILE	B	454	25.653	-9.052	-5.003	1.00	27.27		N
ANISOU	2375	N	ILE	B	454	3565	3340	3458	574	-794	52	N
ATOM	2376	CA	ILE	B	454	24.998	-7.895	-4.372	1.00	27.11		C
ANISOU	2376	CA	ILE	B	454	3599	3362	3338	428	-809	-5	C
ATOM	2377	CB	ILE	B	454	23.458	-7.972	-4.438	1.00	26.13		C
ANISOU	2377	CB	ILE	B	454	3614	3124	3189	336	-643	-36	C
ATOM	2378	CG1	ILE	B	454	22.894	-9.039	-3.497	1.00	26.52		C
ANISOU	2378	CG1	ILE	B	454	3869	3071	3135	383	-593	61	C
ATOM	2379	CD1	ILE	B	454	21.346	-8.995	-3.430	1.00	25.42		C
ANISOU	2379	CD1	ILE	B	454	3835	2857	2966	266	-427	30	C
ATOM	2380	CG2	ILE	B	454	22.973	-8.138	-5.878	1.00	24.81		C
ANISOU	2380	CG2	ILE	B	454	3361	2901	3162	300	-521	-96	C
ATOM	2381	C	ILE	B	454	25.494	-7.622	-2.952	1.00	29.39		C
ANISOU	2381	C	ILE	B	454	3966	3732	3468	447	-963	45	C
ATOM	2382	O	ILE	B	454	26.002	-8.522	-2.286	1.00	30.77		O
ANISOU	2382	O	ILE	B	454	4208	3900	3584	574	-1039	150	O
ATOM	2383	N	ASP	B	455	25.404	-6.364	-2.524	1.00	30.94		N
ANISOU	2383	N	ASP	B	455	4162	4002	3593	326	-1021	-33	N
ATOM	2384	CA	ASP	B	455	25.620	-6.005	-1.121	1.00	33.96		C
ANISOU	2384	CA	ASP	B	455	4670	4448	3787	311	-1152	-13	C
ATOM	2385	CB	ASP	B	455	25.973	-4.520	-0.989	1.00	35.01		C
ANISOU	2385	CB	ASP	B	455	4741	4672	3890	174	-1250	-124	C
ATOM	2386	CG	ASP	B	455	27.250	-4.149	-1.740	1.00	38.55		C
ANISOU	2386	CG	ASP	B	455	4937	5236	4473	156	-1370	-141	C
ATOM	2387	OD1	ASP	B	455	28.218	-4.942	-1.722	1.00	41.76		O
ANISOU	2387	OD1	ASP	B	455	5228	5723	4918	276	-1471	-55	O
ATOM	2388	OD2	ASP	B	455	27.285	-3.060	-2.363	1.00	42.88		O
ANISOU	2388	OD2	ASP	B	455	5401	5798	5094	27	-1354	-234	O
ATOM	2389	C	ASP	B	455	24.357	-6.303	-0.319	1.00	33.96		C
ANISOU	2389	C	ASP	B	455	4908	4349	3646	293	-1024	10	C
ATOM	2390	O	ASP	B	455	23.262	-6.210	-0.836	1.00	32.87		O
ANISOU	2390	O	ASP	B	455	4798	4127	3563	235	-851	-36	O
ATOM	2391	N	ASN	B	456	24.516	-6.670	0.945	1.00	36.21		N
ANISOU	2391	N	ASN	B	456	5355	4657	3744	343	-1109	87	N
ATOM	2392	CA	ASN	B	456	23.386	-6.753	1.864	1.00	36.87		C
ANISOU	2392	CA	ASN	B	456	5670	4678	3659	306	-986	102	C
ATOM	2393	CB	ASN	B	456	23.798	-7.463	3.160	1.00	39.34		C
ANISOU	2393	CB	ASN	B	456	6165	5017	3764	394	-1096	229	C

Figure 18 (continued)

ATOM	2394	CG	ASN	B	456	24.239	-8.874	2.934	1.00	41.30		C
ANISOU	2394	CG	ASN	B	456	6415	5195	4082	538	-1111	377	C
ATOM	2395	OD1	ASN	B	456	23.568	-9.643	2.250	1.00	44.21		O
ANISOU	2395	OD1	ASN	B	456	6797	5430	4570	545	-942	407	O
ATOM	2396	ND2	ASN	B	456	25.373	-9.238	3.516	1.00	45.13		N
ANISOU	2396	ND2	ASN	B	456	6893	5765	4491	658	-1320	471	N
ATOM	2397	C	ASN	B	456	22.849	-5.350	2.191	1.00	35.93		C
ANISOU	2397	C	ASN	B	456	5597	4597	3458	185	-957	-37	C
ATOM	2398	O	ASN	B	456	23.527	-4.564	2.854	1.00	36.85		O
ANISOU	2398	O	ASN	B	456	5741	4804	3458	149	-1118	-88	O
ATOM	2399	N	VAL	B	457	21.652	-5.044	1.700	1.00	34.16		N
ANISOU	2399	N	VAL	B	457	5380	4302	3299	127	-759	-100	N
ATOM	2400	CA	VAL	B	457	20.941	-3.805	2.045	1.00	33.91		C
ANISOU	2400	CA	VAL	B	457	5421	4277	3188	49	-691	-223	C
ATOM	2401	CB	VAL	B	457	20.748	-2.905	0.801	1.00	32.48		C
ANISOU	2401	CB	VAL	B	457	5070	4073	3197	-6	-646	-327	C
ATOM	2402	CG1	VAL	B	457	20.040	-1.606	1.166	1.00	32.79		C
ANISOU	2402	CG1	VAL	B	457	5203	4095	3159	-56	-577	-451	C
ATOM	2403	CG2	VAL	B	457	22.108	-2.600	0.143	1.00	33.09		C
ANISOU	2403	CG2	VAL	B	457	4980	4206	3385	-23	-828	-340	C
ATOM	2404	C	VAL	B	457	19.575	-4.186	2.625	1.00	33.78		C
ANISOU	2404	C	VAL	B	457	5553	4211	3070	49	-478	-196	C
ATOM	2405	O	VAL	B	457	18.791	-4.831	1.940	1.00	32.79		O
ANISOU	2405	O	VAL	B	457	5360	4029	3068	45	-328	-158	O
ATOM	2406	N	MSE	B	458	19.303	-3.798	3.876	1.00	34.81		N
ANISOU	2406	N	MSE	B	458	5882	4374	2971	43	-464	-218	N
ATOM	2407	CA	MSE	B	458	18.039	-4.135	4.545	1.00	35.03		C
ANISOU	2407	CA	MSE	B	458	6051	4379	2879	40	-244	-187	C
ATOM	2408	CB	MSE	B	458	18.056	-3.708	6.020	1.00	37.27		C
ANISOU	2408	CB	MSE	B	458	6581	4716	2866	45	-267	-210	C
ATOM	2409	CG	MSE	B	458	16.872	-4.222	6.828	1.00	37.38		C
ANISOU	2409	CG	MSE	B	458	6752	4723	2726	45	-30	-149	C
ATOM	2410	SE	MSE	B	458	16.820	-3.511	8.603	0.90	41.33		SE
ANISOU	2410	SE	MSE	B	458	7579	5297	2828	55	-30	-211	SE
ATOM	2411	CE	MSE	B	458	15.420	-4.680	9.317	1.00	44.38		C
ANISOU	2411	CE	MSE	B	458	8103	5675	3084	45	298	-58	C
ATOM	2412	C	MSE	B	458	16.868	-3.480	3.818	1.00	33.79		C
ANISOU	2412	C	MSE	B	458	5784	4197	2856	10	-53	-282	C
ATOM	2413	O	MSE	B	458	16.995	-2.362	3.336	1.00	32.16		O
ANISOU	2413	O	MSE	B	458	5505	3991	2722	-1	-98	-401	O
ATOM	2414	N	GLY	B	459	15.744	-4.194	3.715	1.00	34.01		N
ANISOU	2414	N	GLY	B	459	5796	4205	2922	-6	153	-221	N
ATOM	2415	CA	GLY	B	459	14.570	-3.680	2.991	1.00	33.33		C
ANISOU	2415	CA	GLY	B	459	5569	4123	2974	-25	328	-296	C
ATOM	2416	C	GLY	B	459	14.548	-4.009	1.501	1.00	31.85		C
ANISOU	2416	C	GLY	B	459	5161	3902	3041	-49	307	-289	C
ATOM	2417	O	GLY	B	459	13.682	-3.523	0.781	1.00	30.68		O
ANISOU	2417	O	GLY	B	459	4875	3768	3012	-57	409	-348	O
ATOM	2418	N	MSE	B	460	15.478	-4.860	1.057	1.00	31.24		N
ANISOU	2418	N	MSE	B	460	5054	3784	3033	-50	177	-214	N
ATOM	2419	CA	MSE	B	460	15.677	-5.150	-0.354	1.00	31.07		C
ANISOU	2419	CA	MSE	B	460	4850	3729	3225	-65	137	-221	C
ATOM	2420	CB	MSE	B	460	16.629	-4.100	-0.868	1.00	30.09		C
ANISOU	2420	CB	MSE	B	460	4650	3629	3156	-42	-20	-303	C
ATOM	2421	CG	MSE	B	460	16.615	-3.833	-2.309	1.00	32.45		C
ANISOU	2421	CG	MSE	B	460	4767	3917	3643	-59	-30	-347	C
ATOM	2422	SE	MSE	B	460	17.913	-2.375	-2.609	0.90	34.00		SE
ANISOU	2422	SE	MSE	B	460	4919	4140	3859	-59	-219	-436	SE
ATOM	2423	CE	MSE	B	460	16.991	-0.929	-1.707	1.00	33.99		C
ANISOU	2423	CE	MSE	B	460	5050	4135	3729	-54	-133	-542	C
ATOM	2424	C	MSE	B	460	16.331	-6.512	-0.539	1.00	28.84		C
ANISOU	2424	C	MSE	B	460	4594	3383	2980	-52	79	-112	C
ATOM	2425	O	MSE	B	460	17.138	-6.910	0.282	1.00	30.15		O
ANISOU	2425	O	MSE	B	460	4884	3544	3026	-3	-19	-42	O
ATOM	2426	N	VAL	B	461	16.008	-7.206	-1.624	1.00	27.09		N
ANISOU	2426	N	VAL	B	461	4265	3111	2918	-87	131	-100	N
ATOM	2427	CA	VAL	B	461	16.671	-8.480	-1.957	1.00	26.80		C
ANISOU	2427	CA	VAL	B	461	4263	2984	2937	-58	81	-14	C
ATOM	2428	CB	VAL	B	461	15.830	-9.766	-1.561	1.00	27.65		C
ANISOU	2428	CB	VAL	B	461	4497	2994	3014	-121	226	84	C
ATOM	2429	CG1	VAL	B	461	15.820	-9.957	-0.084	1.00	30.27		C

Figure 18 (continued)

ANISOU	2429	CG1	VAL	B	461	5027	3330	3145	-99	248	174	C
ATOM	2430	CG2	VAL	B	461	14.394	-9.726	-2.097	1.00	27.50		C
ANISOU	2430	CG2	VAL	B	461	4380	2992	3077	-246	392	36	C
ATOM	2431	C	VAL	B	461	17.010	-8.528	-3.436	1.00	24.89		C
ANISOU	2431	C	VAL	B	461	3858	2724	2874	-57	39	-71	C
ATOM	2432	O	VAL	B	461	16.458	-7.760	-4.216	1.00	22.95		O
ANISOU	2432	O	VAL	B	461	3485	2528	2709	-103	75	-156	O
ATOM	2433	N	GLY	B	462	17.912	-9.440	-3.809	1.00	24.45		N
ANISOU	2433	N	GLY	B	462	3821	2599	2872	11	-31	-19	N
ATOM	2434	CA	GLY	B	462	18.142	-9.764	-5.208	1.00	23.12		C
ANISOU	2434	CA	GLY	B	462	3536	2394	2854	12	-34	-67	C
ATOM	2435	C	GLY	B	462	17.109	-10.760	-5.728	1.00	23.17		C
ANISOU	2435	C	GLY	B	462	3586	2297	2922	-82	97	-61	C
ATOM	2436	O	GLY	B	462	16.340	-11.359	-4.962	1.00	23.84		O
ANISOU	2436	O	GLY	B	462	3793	2324	2942	-146	191	2	O
ATOM	2437	N	VAL	B	463	17.080	-10.925	-7.043	1.00	22.89		N
ANISOU	2437	N	VAL	B	463	3453	2241	3003	-108	105	-129	N
ATOM	2438	CA	VAL	B	463	16.154	-11.866	-7.677	1.00	23.22		C
ANISOU	2438	CA	VAL	B	463	3530	2185	3106	-220	206	-145	C
ATOM	2439	CB	VAL	B	463	14.824	-11.131	-8.120	1.00	22.55		C
ANISOU	2439	CB	VAL	B	463	3313	2204	3052	-353	274	-216	C
ATOM	2440	CG1	VAL	B	463	15.089	-10.058	-9.145	1.00	20.58		C
ANISOU	2440	CG1	VAL	B	463	2902	2062	2857	-321	205	-302	C
ATOM	2441	CG2	VAL	B	463	13.796	-12.107	-8.634	1.00	23.79		C
ANISOU	2441	CG2	VAL	B	463	3493	2283	3263	-503	366	-230	C
ATOM	2442	C	VAL	B	463	16.893	-12.591	-8.810	1.00	22.85		C
ANISOU	2442	C	VAL	B	463	3485	2051	3146	-163	174	-184	C
ATOM	2443	O	VAL	B	463	17.576	-11.960	-9.618	1.00	21.88		O
ANISOU	2443	O	VAL	B	463	3242	2006	3066	-101	110	-243	O
ATOM	2444	N	LEU	B	464	16.772	-13.917	-8.835	1.00	24.48		N
ANISOU	2444	N	LEU	B	464	3847	2086	3370	-184	230	-147	N
ATOM	2445	CA	LEU	B	464	17.398	-14.757	-9.860	1.00	24.70		C
ANISOU	2445	CA	LEU	B	464	3920	1996	3469	-121	225	-193	C
ATOM	2446	CB	LEU	B	464	17.692	-16.167	-9.278	1.00	26.50		C
ANISOU	2446	CB	LEU	B	464	4383	2003	3684	-60	262	-101	C
ATOM	2447	CG	LEU	B	464	18.614	-16.282	-8.045	1.00	27.20		C
ANISOU	2447	CG	LEU	B	464	4556	2079	3698	112	196	31	C
ATOM	2448	CD1	LEU	B	464	18.909	-17.751	-7.716	1.00	26.95		C
ANISOU	2448	CD1	LEU	B	464	4774	1800	3666	194	234	122	C
ATOM	2449	CD2	LEU	B	464	19.925	-15.482	-8.186	1.00	25.91		C
ANISOU	2449	CD2	LEU	B	464	4231	2069	3545	291	74	17	C
ATOM	2450	C	LEU	B	464	16.470	-14.848	-11.075	1.00	24.29		C
ANISOU	2450	C	LEU	B	464	3811	1943	3475	-279	275	-305	C
ATOM	2451	O	LEU	B	464	15.296	-14.566	-10.935	1.00	23.51		O
ANISOU	2451	O	LEU	B	464	3661	1902	3369	-438	321	-317	O
ATOM	2452	N	PRO	B	465	16.996	-15.222	-12.270	1.00	25.25		N
ANISOU	2452	N	PRO	B	465	3932	2015	3645	-232	265	-388	N
ATOM	2453	CA	PRO	B	465	16.120	-15.432	-13.438	1.00	25.68		C
ANISOU	2453	CA	PRO	B	465	3964	2062	3731	-391	297	-499	C
ATOM	2454	CB	PRO	B	465	17.050	-16.084	-14.460	1.00	25.85		C
ANISOU	2454	CB	PRO	B	465	4061	1984	3778	-277	298	-570	C
ATOM	2455	CG	PRO	B	465	18.388	-15.510	-14.133	1.00	24.55		C
ANISOU	2455	CG	PRO	B	465	3812	1904	3610	-63	245	-516	C
ATOM	2456	CD	PRO	B	465	18.421	-15.441	-12.622	1.00	25.27		C
ANISOU	2456	CD	PRO	B	465	3945	1989	3669	-26	225	-389	C
ATOM	2457	C	PRO	B	465	14.846	-16.281	-13.209	1.00	28.21		C
ANISOU	2457	C	PRO	B	465	4391	2269	4059	-603	369	-498	C
ATOM	2458	O	PRO	B	465	13.803	-15.960	-13.790	1.00	27.91		O
ANISOU	2458	O	PRO	B	465	4244	2328	4033	-771	372	-565	O
ATOM	2459	N	ASP	B	466	14.925	-17.337	-12.388	1.00	30.80		N
ANISOU	2459	N	ASP	B	466	4922	2403	4379	-599	424	-415	N
ATOM	2460	CA	ASP	B	466	13.752	-18.159	-12.058	1.00	33.52		C
ANISOU	2460	CA	ASP	B	466	5376	2631	4730	-825	507	-396	C
ATOM	2461	CB	ASP	B	466	14.126	-19.605	-11.623	1.00	35.98		C
ANISOU	2461	CB	ASP	B	466	5985	2643	5044	-799	566	-329	C
ATOM	2462	CG	ASP	B	466	14.980	-19.668	-10.343	1.00	37.63		C
ANISOU	2462	CG	ASP	B	466	6297	2804	5198	-600	556	-174	C
ATOM	2463	OD1	ASP	B	466	15.185	-18.631	-9.683	1.00	38.27		O
ANISOU	2463	OD1	ASP	B	466	6230	3080	5230	-519	509	-123	O
ATOM	2464	OD2	ASP	B	466	15.460	-20.776	-9.985	1.00	41.34		O
ANISOU	2464	OD2	ASP	B	466	7013	3029	5664	-519	587	-101	O

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Figure 18 (continued)

ATOM	2465	C	ASP B 466	12.853	-17.487	-11.009	1.00	33.70		C
ANISOU	2465	C	ASP B 466	5289	2800	4716	-926	547	-316	C
ATOM	2466	O	ASP B 466	11.911	-18.095	-10.495	1.00	35.21		O
ANISOU	2466	O	ASP B 466	5552	2920	4904	-1111	636	-270	O
ATOM	2467	N	MSE B 467	13.146	-16.229	-10.700	1.00	32.05		N
ANISOU	2467	N	MSE B 467	4911	2790	4475	-810	493	-302	N
ATOM	2468	CA	MSE B 467	12.363	-15.426	-9.749	1.00	32.32		C
ANISOU	2468	CA	MSE B 467	4839	2978	4464	-867	537	-247	C
ATOM	2469	CB	MSE B 467	10.852	-15.367	-10.098	1.00	33.45		C
ANISOU	2469	CB	MSE B 467	4846	3217	4648	-1096	603	-295	C
ATOM	2470	CG	MSE B 467	10.480	-14.569	-11.341	1.00	34.23		C
ANISOU	2470	CG	MSE B 467	4734	3476	4798	-1122	530	-411	C
ATOM	2471	SE	MSE B 467	11.051	-12.703	-11.393	0.90	35.66		SE
ANISOU	2471	SE	MSE B 467	4726	3873	4950	-913	438	-429	SE
ATOM	2472	CE	MSE B 467	10.370	-12.081	-9.735	1.00	33.79		C
ANISOU	2472	CE	MSE B 467	4462	3731	4645	-908	538	-336	C
ATOM	2473	C	MSE B 467	12.545	-15.812	-8.285	1.00	32.77		C
ANISOU	2473	C	MSE B 467	5059	2956	4437	-824	593	-111	C
ATOM	2474	O	MSE B 467	11.814	-15.332	-7.424	1.00	33.07		O
ANISOU	2474	O	MSE B 467	5047	3099	4420	-886	661	-63	O
ATOM	2475	N	THR B 468	13.511	-16.674	-8.005	1.00	33.28		N
ANISOU	2475	N	THR B 468	5323	2840	4482	-705	569	-45	N
ATOM	2476	CA	THR B 468	13.885	-16.983	-6.629	1.00	33.89		C
ANISOU	2476	CA	THR B 468	5568	2851	4457	-623	589	98	C
ATOM	2477	CB	THR B 468	14.768	-18.251	-6.562	1.00	35.34		C
ANISOU	2477	CB	THR B 468	5996	2785	4646	-509	572	172	C
ATOM	2478	OG1	THR B 468	13.977	-19.388	-6.930	1.00	37.79		O
ANISOU	2478	OG1	THR B 468	6452	2897	5009	-697	675	166	O
ATOM	2479	CG2	THR B 468	15.313	-18.475	-5.164	1.00	36.57		C
ANISOU	2479	CG2	THR B 468	6321	2896	4679	-382	556	334	C
ATOM	2480	C	THR B 468	14.591	-15.751	-6.022	1.00	32.35		C
ANISOU	2480	C	THR B 468	5263	2840	4187	-460	495	111	C
ATOM	2481	O	THR B 468	15.453	-15.146	-6.652	1.00	30.75		O
ANISOU	2481	O	THR B 468	4946	2713	4024	-334	390	46	O
ATOM	2482	N	PRO B 469	14.192	-15.361	-4.801	1.00	32.67		N
ANISOU	2482	N	PRO B 469	5345	2955	4113	-481	542	189	N
ATOM	2483	CA	PRO B 469	14.887	-14.289	-4.133	1.00	31.19		C
ANISOU	2483	CA	PRO B 469	5102	2914	3836	-342	447	195	C
ATOM	2484	CB	PRO B 469	13.971	-13.957	-2.953	1.00	32.02		C
ANISOU	2484	CB	PRO B 469	5259	3094	3815	-428	558	252	C
ATOM	2485	CG	PRO B 469	13.209	-15.162	-2.692	1.00	35.33		C
ANISOU	2485	CG	PRO B 469	5828	3365	4231	-568	694	337	C
ATOM	2486	CD	PRO B 469	13.071	-15.891	-4.001	1.00	34.33		C
ANISOU	2486	CD	PRO B 469	5660	3121	4262	-648	695	268	C
ATOM	2487	C	PRO B 469	16.256	-14.732	-3.650	1.00	31.84		C
ANISOU	2487	C	PRO B 469	5312	2920	3863	-153	327	282	C
ATOM	2488	O	PRO B 469	16.421	-15.890	-3.258	1.00	34.25		O
ANISOU	2488	O	PRO B 469	5817	3054	4141	-128	356	388	O
ATOM	2489	N	SER B 470	17.223	-13.819	-3.690	1.00	30.20		N
ANISOU	2489	N	SER B 470	4990	2841	3645	-24	191	241	N
ATOM	2490	CA	SER B 470	18.571	-14.100	-3.234	1.00	30.87		C
ANISOU	2490	CA	SER B 470	5139	2908	3684	161	53	318	C
ATOM	2491	CB	SER B 470	19.482	-14.433	-4.402	1.00	29.68		C
ANISOU	2491	CB	SER B 470	4890	2716	3672	269	-11	267	C
ATOM	2492	OG	SER B 470	20.792	-14.608	-3.929	1.00	30.33		O
ANISOU	2492	OG	SER B 470	4987	2820	3717	461	-149	343	O
ATOM	2493	C	SER B 470	19.131	-12.899	-2.510	1.00	30.64		C
ANISOU	2493	C	SER B 470	5033	3057	3553	216	-65	302	C
ATOM	2494	O	SER B 470	18.928	-11.761	-2.930	1.00	29.05		O
ANISOU	2494	O	SER B 470	4674	2979	3385	159	-76	194	O
ATOM	2495	N	THR B 471	19.865	-13.168	-1.437	1.00	32.50		N
ANISOU	2495	N	THR B 471	5393	3296	3659	329	-164	411	N
ATOM	2496	CA	THR B 471	20.614	-12.129	-0.716	1.00	32.89		C
ANISOU	2496	CA	THR B 471	5386	3511	3599	384	-315	395	C
ATOM	2497	CB	THR B 471	20.490	-12.340	0.813	1.00	34.91		C
ANISOU	2497	CB	THR B 471	5860	3771	3632	403	-333	511	C
ATOM	2498	OG1	THR B 471	20.876	-13.675	1.140	1.00	37.72		O
ANISOU	2498	OG1	THR B 471	6384	3985	3961	514	-348	662	O
ATOM	2499	CG2	THR B 471	19.028	-12.160	1.273	1.00	34.90		C
ANISOU	2499	CG2	THR B 471	5958	3753	3549	246	-138	495	C
ATOM	2500	C	THR B 471	22.099	-12.082	-1.145	1.00	32.75		C

Figure 18 (continued)

ANISOU	2500	C	THR	B	471	5227	3559	3656	534	-494	396	C
ATOM	2501	O	THR	B	471	22.890	-11.337	-0.583	1.00	34.16		O
ANISOU	2501	O	THR	B	471	5345	3877	3756	575	-648	389	O
ATOM	2502	N	GLU	B	472	22.465	-12.869	-2.157	1.00	31.92		N
ANISOU	2502	N	GLU	B	472	5064	3360	3702	609	-467	396	N
ATOM	2503	CA	GLU	B	472	23.861	-12.976	-2.589	1.00	31.44		C
ANISOU	2503	CA	GLU	B	472	4859	3365	3724	773	-605	407	C
ATOM	2504	CB	GLU	B	472	24.370	-14.411	-2.376	1.00	33.51		C
ANISOU	2504	CB	GLU	B	472	5266	3476	3992	956	-618	540	C
ATOM	2505	CG	GLU	B	472	24.422	-14.846	-0.927	1.00	37.90		C
ANISOU	2505	CG	GLU	B	472	6031	4005	4363	1022	-691	691	C
ATOM	2506	CD	GLU	B	472	23.763	-16.204	-0.707	1.00	44.50		C
ANISOU	2506	CD	GLU	B	472	7139	4591	5179	1042	-560	804	C
ATOM	2507	OE1	GLU	B	472	24.485	-17.177	-0.350	1.00	46.85		O
ANISOU	2507	OE1	GLU	B	472	7556	4788	5457	1242	-630	939	O
ATOM	2508	OE2	GLU	B	472	22.521	-16.302	-0.892	1.00	44.38		O
ANISOU	2508	OE2	GLU	B	472	7216	4477	5169	856	-389	762	O
ATOM	2509	C	GLU	B	472	24.062	-12.542	-4.036	1.00	28.34		C
ANISOU	2509	C	GLU	B	472	4255	3014	3498	741	-565	283	C
ATOM	2510	O	GLU	B	472	25.024	-11.859	-4.337	1.00	27.47		O
ANISOU	2510	O	GLU	B	472	3954	3050	3434	785	-672	244	O
ATOM	2511	N	MSE	B	473	23.145	-12.942	-4.916	1.00	26.75		N
ANISOU	2511	N	MSE	B	473	4093	2693	3379	652	-412	224	N
ATOM	2512	CA	MSE	B	473	23.244	-12.649	-6.358	1.00	25.55		C
ANISOU	2512	CA	MSE	B	473	3777	2567	3364	621	-362	111	C
ATOM	2513	CB	MSE	B	473	23.499	-13.920	-7.189	1.00	25.85		C
ANISOU	2513	CB	MSE	B	473	3877	2448	3495	728	-290	117	C
ATOM	2514	CG	MSE	B	473	24.655	-14.796	-6.777	1.00	28.02		C
ANISOU	2514	CG	MSE	B	473	4194	2678	3776	959	-368	220	C
ATOM	2515	SE	MSE	B	473	26.394	-14.027	-6.988	0.90	30.87		SE
ANISOU	2515	SE	MSE	B	473	4253	3284	4190	1120	-526	214	SE
ATOM	2516	CE	MSE	B	473	26.496	-13.771	-8.933	1.00	22.35		C
ANISOU	2516	CE	MSE	B	473	2999	2234	3260	1079	-399	59	C
ATOM	2517	C	MSE	B	473	21.954	-12.044	-6.864	1.00	23.67		C
ANISOU	2517	C	MSE	B	473	3524	2330	3138	431	-255	20	C
ATOM	2518	O	MSE	B	473	20.913	-12.197	-6.250	1.00	23.75		O
ANISOU	2518	O	MSE	B	473	3657	2283	3082	333	-183	45	O
ATOM	2519	N	SER	B	474	22.018	-11.384	-8.012	1.00	23.00		N
ANISOU	2519	N	SER	B	474	3283	2317	3138	384	-240	-79	N
ATOM	2520	CA	SER	B	474	20.815	-10.819	-8.621	1.00	21.94		C
ANISOU	2520	CA	SER	B	474	3118	2194	3023	228	-154	-159	C
ATOM	2521	CB	SER	B	474	20.425	-9.496	-7.949	1.00	20.28		C
ANISOU	2521	CB	SER	B	474	2863	2099	2745	152	-190	-179	C
ATOM	2522	OG	SER	B	474	19.094	-9.121	-8.284	1.00	20.72		O
ANISOU	2522	OG	SER	B	474	2910	2154	2809	30	-97	-231	O
ATOM	2523	C	SER	B	474	21.036	-10.602	-10.103	1.00	22.22		C
ANISOU	2523	C	SER	B	474	3031	2262	3151	217	-130	-246	C
ATOM	2524	O	SER	B	474	22.178	-10.392	-10.544	1.00	22.87		O
ANISOU	2524	O	SER	B	474	3006	2412	3273	308	-185	-253	O
ATOM	2525	N	MSE	B	475	19.942	-10.646	-10.871	1.00	22.60		N
ANISOU	2525	N	MSE	B	475	3085	2278	3225	101	-49	-308	N
ATOM	2526	CA	MSE	B	475	19.951	-10.117	-12.224	1.00	22.94		C
ANISOU	2526	CA	MSE	B	475	3014	2384	3318	64	-37	-391	C
ATOM	2527	CB	MSE	B	475	18.539	-10.126	-12.829	1.00	21.81		C
ANISOU	2527	CB	MSE	B	475	2880	2226	3181	-76	26	-446	C
ATOM	2528	CG	MSE	B	475	18.108	-11.548	-13.200	1.00	24.19		C
ANISOU	2528	CG	MSE	B	475	3308	2381	3504	-112	93	-465	C
ATOM	2529	SE	MSE	B	475	16.546	-11.727	-14.313	0.90	27.36		SE
ANISOU	2529	SE	MSE	B	475	3688	2786	3921	-305	143	-557	SE
ATOM	2530	CE	MSE	B	475	15.247	-11.070	-13.061	1.00	18.34		C
ANISOU	2530	CE	MSE	B	475	2500	1718	2750	-406	169	-500	C
ATOM	2531	C	MSE	B	475	20.526	-8.725	-12.161	1.00	22.17		C
ANISOU	2531	C	MSE	B	475	2788	2424	3212	70	-108	-396	C
ATOM	2532	O	MSE	B	475	20.131	-7.953	-11.287	1.00	21.81		O
ANISOU	2532	O	MSE	B	475	2749	2419	3118	30	-137	-377	O
ATOM	2533	N	ARG	B	476	21.484	-8.425	-13.055	1.00	22.25		N
ANISOU	2533	N	ARG	B	476	2693	2497	3262	116	-127	-422	N
ATOM	2534	CA	ARG	B	476	22.159	-7.132	-13.117	1.00	22.50		C
ANISOU	2534	CA	ARG	B	476	2605	2648	3297	98	-188	-424	C
ATOM	2535	CB	ARG	B	476	23.037	-7.065	-14.384	1.00	22.64		C
ANISOU	2535	CB	ARG	B	476	2515	2725	3361	130	-162	-454	C

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Figure 18 (continued)

ATOM	2536	CG	ARG	B	476	23.641	-5.664	-14.657	1.00	24.65	
ANISOU	2536	CG	ARG	B	476	2649	3092	3623	68	-205	-454
ATOM	2537	CD	ARG	B	476	24.241	-5.462	-16.092	1.00	25.76	
ANISOU	2537	CD	ARG	B	476	2697	3299	3792	63	-145	-481
ATOM	2538	NE	ARG	B	476	23.541	-6.128	-17.231	1.00	27.18	
ANISOU	2538	NE	ARG	B	476	2943	3428	3957	63	-58	-533
ATOM	2539	CZ	ARG	B	476	22.619	-5.553	-18.020	1.00	27.94	
ANISOU	2539	CZ	ARG	B	476	3071	3528	4018	-25	-39	-562
ATOM	2540	NH1	ARG	B	476	22.175	-4.295	-17.792	1.00	26.67	
ANISOU	2540	NH1	ARG	B	476	2896	3395	3843	-102	-85	-540
ATOM	2541	NH2	ARG	B	476	22.108	-6.250	-19.027	1.00	19.87	
ANISOU	2541	NH2	ARG	B	476	2107	2475	2969	-28	19	-615
ATOM	2542	C	ARG	B	476	21.228	-5.892	-12.998	1.00	21.11	
ANISOU	2542	C	ARG	B	476	2425	2504	3091	-6	-197	-447
ATOM	2543	O	ARG	B	476	20.346	-5.675	-13.836	1.00	20.87	
ANISOU	2543	O	ARG	B	476	2391	2470	3068	-64	-149	-485
ATOM	2544	N	GLY	B	477	21.432	-5.093	-11.949	1.00	21.59	
ANISOU	2544	N	GLY	B	477	2495	2597	3111	-19	-262	-426
ATOM	2545	CA	GLY	B	477	20.682	-3.845	-11.726	1.00	20.28	
ANISOU	2545	CA	GLY	B	477	2344	2444	2916	-89	-267	-452
ATOM	2546	C	GLY	B	477	19.265	-4.001	-11.186	1.00	19.95	
ANISOU	2546	C	GLY	B	477	2384	2360	2837	-110	-204	-459
ATOM	2547	O	GLY	B	477	18.600	-2.995	-10.954	1.00	20.31	
ANISOU	2547	O	GLY	B	477	2442	2415	2859	-137	-196	-482
ATOM	2548	N	ILE	B	478	18.805	-5.242	-10.986	1.00	19.45	
ANISOU	2548	N	ILE	B	478	2374	2245	2770	-98	-152	-437
ATOM	2549	CA	ILE	B	478	17.425	-5.543	-10.523	1.00	17.96	
ANISOU	2549	CA	ILE	B	478	2239	2031	2556	-143	-73	-436
ATOM	2550	CB	ILE	B	478	16.747	-6.700	-11.323	1.00	18.46	
ANISOU	2550	CB	ILE	B	478	2303	2046	2665	-189	-7	-446
ATOM	2551	CG1	ILE	B	478	17.035	-6.649	-12.849	1.00	16.97	
ANISOU	2551	CG1	ILE	B	478	2037	1879	2532	-198	-24	-493
ATOM	2552	CD1	ILE	B	478	16.569	-5.382	-13.592	1.00	12.97	
ANISOU	2552	CD1	ILE	B	478	1440	1453	2034	-221	-43	-526
ATOM	2553	CG2	ILE	B	478	15.216	-6.762	-11.010	1.00	18.15	
ANISOU	2553	CG2	ILE	B	478	2259	2020	2616	-267	75	-451
ATOM	2554	C	ILE	B	478	17.351	-5.901	-9.018	1.00	18.54	
ANISOU	2554	C	ILE	B	478	2425	2075	2545	-124	-62	-387
ATOM	2555	O	ILE	B	478	18.093	-6.760	-8.523	1.00	18.41	
ANISOU	2555	O	ILE	B	478	2476	2015	2504	-76	-93	-336
ATOM	2556	N	ARG	B	479	16.435	-5.252	-8.299	1.00	18.71	
ANISOU	2556	N	ARG	B	479	2473	2124	2512	-148	-11	-398
ATOM	2557	CA	ARG	B	479	16.205	-5.537	-6.881	1.00	19.06	
ANISOU	2557	CA	ARG	B	479	2640	2153	2450	-139	24	-354
ATOM	2558	CB	ARG	B	479	16.835	-4.454	-5.980	1.00	19.31	
ANISOU	2558	CB	ARG	B	479	2727	2220	2388	-100	-54	-375
ATOM	2559	CG	ARG	B	479	18.364	-4.281	-6.108	1.00	17.90	
ANISOU	2559	CG	ARG	B	479	2524	2056	2221	-65	-199	-368
ATOM	2560	CD	ARG	B	479	19.159	-5.504	-5.595	1.00	20.83	
ANISOU	2560	CD	ARG	B	479	2956	2400	2558	-12	-249	-287
ATOM	2561	NE	ARG	B	479	20.603	-5.259	-5.641	1.00	22.94	
ANISOU	2561	NE	ARG	B	479	3160	2718	2838	31	-392	-279
ATOM	2562	CZ	ARG	B	479	21.370	-5.399	-6.728	1.00	22.88	
ANISOU	2562	CZ	ARG	B	479	3022	2729	2941	52	-425	-288
ATOM	2563	NH1	ARG	B	479	20.850	-5.826	-7.888	1.00	18.51	
ANISOU	2563	NH1	ARG	B	479	2416	2135	2482	38	-335	-309
ATOM	2564	NH2	ARG	B	479	22.673	-5.109	-6.657	1.00	21.36	
ANISOU	2564	NH2	ARG	B	479	2746	2610	2759	82	-549	-278
ATOM	2565	C	ARG	B	479	14.714	-5.617	-6.625	1.00	19.99	
ANISOU	2565	C	ARG	B	479	2751	2287	2555	-193	157	-358
ATOM	2566	O	ARG	B	479	13.908	-5.004	-7.352	1.00	19.57	
ANISOU	2566	O	ARG	B	479	2588	2283	2564	-214	195	-407
ATOM	2567	N	VAL	B	480	14.344	-6.383	-5.600	1.00	20.85	
ANISOU	2567	N	VAL	B	480	2971	2367	2583	-214	231	-299
ATOM	2568	CA	VAL	B	480	12.969	-6.481	-5.147	1.00	21.50	
ANISOU	2568	CA	VAL	B	480	3043	2486	2640	-275	379	-291
ATOM	2569	CB	VAL	B	480	12.437	-7.952	-5.221	1.00	22.40	
ANISOU	2569	CB	VAL	B	480	3194	2531	2785	-375	465	-227
ATOM	2570	CG1	VAL	B	480	11.090	-8.086	-4.576	1.00	22.44	
ANISOU	2570	CG1	VAL	B	480	3183	2592	2754	-458	630	-204
ATOM	2571	CG2	VAL	B	480	12.380	-8.430	-6.680	1.00	20.69	

Figure 18 (continued)

ANISOU	2571	CG2	VAL	B	480	2869	2287	2705	-430	428	-266	C
ATOM	2572	C	VAL	B	480	12.858	-5.880	-3.738	1.00	23.73		C
ANISOU	2572	C	VAL	B	480	3442	2803	2771	-231	424	-282	C
ATOM	2573	O	VAL	B	480	13.635	-6.213	-2.833	1.00	23.83		O
ANISOU	2573	O	VAL	B	480	3604	2779	2670	-198	372	-230	O
ATOM	2574	N	SER	B	481	11.899	-4.968	-3.571	1.00	24.34		N
ANISOU	2574	N	SER	B	481	3455	2956	2838	-217	517	-336	N
ATOM	2575	CA	SER	B	481	11.641	-4.340	-2.293	1.00	26.50		C
ANISOU	2575	CA	SER	B	481	3846	3264	2958	-169	590	-350	C
ATOM	2576	CB	SER	B	481	10.803	-3.087	-2.498	1.00	26.56		C
ANISOU	2576	CB	SER	B	481	3755	3338	2998	-108	659	-436	C
ATOM	2577	OG	SER	B	481	10.413	-2.542	-1.251	1.00	29.55		O
ANISOU	2577	OG	SER	B	481	4258	3749	3221	-56	765	-461	O
ATOM	2578	C	SER	B	481	10.922	-5.271	-1.311	1.00	29.41		C
ANISOU	2578	C	SER	B	481	4304	3643	3226	-230	745	-270	C
ATOM	2579	O	SER	B	481	10.009	-6.006	-1.679	1.00	29.10		O
ANISOU	2579	O	SER	B	481	4167	3623	3266	-319	857	-233	O
ATOM	2580	N	LYS	B	482	11.350	-5.230	-0.054	1.00	32.28		N
ANISOU	2580	N	LYS	B	482	4862	3998	3405	-194	747	-241	N
ATOM	2581	CA	LYS	B	482	10.679	-5.956	1.007	1.00	36.48		C
ANISOU	2581	CA	LYS	B	482	5512	4545	3803	-246	910	-159	C
ATOM	2582	CB	LYS	B	482	11.708	-6.552	1.973	1.00	37.56		C
ANISOU	2582	CB	LYS	B	482	5882	4620	3770	-223	813	-72	C
ATOM	2583	CG	LYS	B	482	12.493	-7.739	1.427	1.00	39.17		C
ANISOU	2583	CG	LYS	B	482	6106	4718	4059	-250	700	19	C
ATOM	2584	CD	LYS	B	482	13.494	-8.227	2.457	1.00	46.13		C
ANISOU	2584	CD	LYS	B	482	7211	5556	4762	-192	592	114	C
ATOM	2585	CE	LYS	B	482	13.409	-9.749	2.690	1.00	50.34		C
ANISOU	2585	CE	LYS	B	482	7871	5976	5278	-245	653	267	C
ATOM	2586	NZ	LYS	B	482	14.542	-10.223	3.564	1.00	55.51		N
ANISOU	2586	NZ	LYS	B	482	8732	6587	5770	-151	505	373	N
ATOM	2587	C	LYS	B	482	9.701	-5.045	1.766	1.00	39.13		C
ANISOU	2587	C	LYS	B	482	5851	4981	4035	-202	1082	-221	C
ATOM	2588	O	LYS	B	482	9.060	-5.500	2.711	1.00	41.48		O
ANISOU	2588	O	LYS	B	482	6242	5315	4202	-242	1250	-160	O
ATOM	2589	N	MSE	B	483	9.603	-3.764	1.371	1.00	39.66		N
ANISOU	2589	N	MSE	B	483	5832	5082	4154	-113	1050	-338	N
ATOM	2590	CA	MSE	B	483	8.689	-2.788	2.016	1.00	42.78		C
ANISOU	2590	CA	MSE	B	483	6232	5558	4464	-32	1217	-416	C
ATOM	2591	CB	MSE	B	483	9.114	-1.322	1.779	1.00	42.34		C
ANISOU	2591	CB	MSE	B	483	6198	5470	4417	85	1113	-544	C
ATOM	2592	CG	MSE	B	483	10.519	-0.958	2.191	1.00	42.80		C
ANISOU	2592	CG	MSE	B	483	6451	5447	4363	95	911	-575	C
ATOM	2593	SE	MSE	B	483	10.790	-1.343	4.076	0.90	53.78		SE
ANISOU	2593	SE	MSE	B	483	8155	6858	5420	89	969	-539	SE
ATOM	2594	CE	MSE	B	483	9.681	-0.017	5.008	1.00	43.83		C
ANISOU	2594	CE	MSE	B	483	6998	5650	4003	213	1203	-680	C
ATOM	2595	C	MSE	B	483	7.253	-2.929	1.531	1.00	44.09		C
ANISOU	2595	C	MSE	B	483	6165	5828	4760	-57	1407	-409	C
ATOM	2596	O	MSE	B	483	7.028	-2.888	0.312	1.00	43.61		O
ANISOU	2596	O	MSE	B	483	5899	5777	4893	-73	1342	-423	O
ATOM	2597	OXT	MSE	B	483	6.311	-3.041	2.339	1.00	46.48		O
ANISOU	2597	OXT	MSE	B	483	6471	6220	4971	-61	1623	-390	O
ATOM	2598	N	ILE	D	319	63.442	-23.655	-17.970	1.00	53.76		N
ANISOU	2598	N	ILE	D	319	7685	4667	8075	274	727	-949	N
ATOM	2599	CA	ILE	D	319	62.501	-23.137	-16.919	1.00	52.62		C
ANISOU	2599	CA	ILE	D	319	7506	4623	7863	88	628	-790	C
ATOM	2600	CB	ILE	D	319	62.826	-23.727	-15.487	1.00	53.65		C
ANISOU	2600	CB	ILE	D	319	7709	4559	8116	134	561	-578	C
ATOM	2601	CG1	ILE	D	319	61.736	-23.378	-14.463	1.00	53.18		C
ANISOU	2601	CG1	ILE	D	319	7660	4578	7969	-75	499	-438	C
ATOM	2602	CD1	ILE	D	319	61.719	-24.322	-13.234	1.00	55.09		C
ANISOU	2602	CD1	ILE	D	319	8066	4566	8299	-89	460	-258	C
ATOM	2603	CG2	ILE	D	319	64.206	-23.306	-14.994	1.00	52.60		C
ANISOU	2603	CG2	ILE	D	319	7451	4467	8067	373	525	-452	C
ATOM	2604	C	ILE	D	319	62.352	-21.605	-16.916	1.00	49.28		C
ANISOU	2604	C	ILE	D	319	6892	4530	7301	56	600	-732	C
ATOM	2605	O	ILE	D	319	61.237	-21.097	-16.682	1.00	48.90		O
ANISOU	2605	O	ILE	D	319	6817	4614	7147	-127	555	-712	O
ATOM	2606	N	SER	D	320	63.458	-20.898	-17.210	1.00	47.45		N
ANISOU	2606	N	SER	D	320	6524	4418	7087	232	634	-713	N

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Figure 18 (continued)

ATOM	2607	CA	SER	D	320	63.576	-19.403	-17.245	1.00	43.82		C
ANISOU	2607	CA	SER	D	320	5886	4238	6528	231	618	-650	C
ATOM	2608	CB	SER	D	320	62.853	-18.783	-18.463	1.00	43.61		C
ANISOU	2608	CB	SER	D	320	5846	4391	6332	139	666	-791	C
ATOM	2609	OG	SER	D	320	62.411	-19.771	-19.397	1.00	46.63		O
ANISOU	2609	OG	SER	D	320	6378	4652	6686	96	715	-975	O
ATOM	2610	C	SER	D	320	63.164	-18.674	-15.938	1.00	40.81		C
ANISOU	2610	C	SER	D	320	5444	3950	6114	147	509	-475	C
ATOM	2611	O	SER	D	320	62.342	-17.737	-15.963	1.00	39.35		O
ANISOU	2611	O	SER	D	320	5199	3949	5803	29	485	-470	O
ATOM	2612	N	SER	D	321	63.744	-19.096	-14.810	1.00	38.96		N
ANISOU	2612	N	SER	D	321	5233	3587	5982	223	441	-336	N
ATOM	2613	CA	SER	D	321	63.435	-18.492	-13.514	1.00	35.41		C
ANISOU	2613	CA	SER	D	321	4761	3214	5478	159	341	-177	C
ATOM	2614	CB	SER	D	321	63.252	-19.571	-12.458	1.00	37.05		C
ANISOU	2614	CB	SER	D	321	5133	3209	5736	139	291	-64	C
ATOM	2615	OG	SER	D	321	64.485	-20.151	-12.113	1.00	39.50		O
ANISOU	2615	OG	SER	D	321	5449	3370	6187	334	243	7	O
ATOM	2616	C	SER	D	321	64.454	-17.445	-13.030	1.00	33.02		C
ANISOU	2616	C	SER	D	321	4299	3045	5202	275	271	-86	C
ATOM	2617	O	SER	D	321	64.263	-16.842	-11.978	1.00	31.66		O
ANISOU	2617	O	SER	D	321	4115	2947	4966	231	181	25	O
ATOM	2618	N	SER	D	322	65.501	-17.202	-13.829	1.00	31.16		N
ANISOU	2618	N	SER	D	322	3939	2845	5057	410	324	-145	N
ATOM	2619	CA	SER	D	322	66.656	-16.427	-13.420	1.00	28.20		C
ANISOU	2619	CA	SER	D	322	3392	2555	4768	525	259	-67	C
ATOM	2620	CB	SER	D	322	67.515	-17.350	-12.575	1.00	30.48		C
ANISOU	2620	CB	SER	D	322	3710	2670	5202	669	164	29	C
ATOM	2621	OG	SER	D	322	68.312	-16.682	-11.683	1.00	28.82		O
ANISOU	2621	OG	SER	D	322	3373	2534	5042	733	26	137	O
ATOM	2622	C	SER	D	322	67.425	-16.050	-14.688	1.00	27.21		C
ANISOU	2622	C	SER	D	322	3127	2506	4706	610	390	-168	C
ATOM	2623	O	SER	D	322	67.831	-16.930	-15.437	1.00	28.51		O
ANISOU	2623	O	SER	D	322	3324	2557	4949	708	491	-255	O
ATOM	2624	N	PHE	D	323	67.651	-14.758	-14.921	1.00	24.48		N
ANISOU	2624	N	PHE	D	323	2638	2339	4326	576	402	-155	N
ATOM	2625	CA	PHE	D	323	68.250	-14.299	-16.169	1.00	24.11		C
ANISOU	2625	CA	PHE	D	323	2478	2379	4303	627	556	-233	C
ATOM	2626	CB	PHE	D	323	67.335	-14.608	-17.378	1.00	23.01		C
ANISOU	2626	CB	PHE	D	323	2478	2256	4010	561	682	-365	C
ATOM	2627	CG	PHE	D	323	65.905	-14.146	-17.190	1.00	21.13		C
ANISOU	2627	CG	PHE	D	323	2340	2096	3593	393	614	-364	C
ATOM	2628	CD1	PHE	D	323	65.509	-12.883	-17.609	1.00	18.06		C
ANISOU	2628	CD1	PHE	D	323	1896	1878	3090	321	629	-351	C
ATOM	2629	CE1	PHE	D	323	64.229	-12.463	-17.415	1.00	18.85		C
ANISOU	2629	CE1	PHE	D	323	2060	2050	3052	195	564	-350	C
ATOM	2630	CZ	PHE	D	323	63.312	-13.289	-16.768	1.00	18.75		C
ANISOU	2630	CZ	PHE	D	323	2157	1953	3016	115	496	-360	C
ATOM	2631	CE2	PHE	D	323	63.706	-14.538	-16.339	1.00	19.68		C
ANISOU	2631	CE2	PHE	D	323	2346	1892	3241	165	489	-361	C
ATOM	2632	CD2	PHE	D	323	64.977	-14.960	-16.567	1.00	18.81		C
ANISOU	2632	CD2	PHE	D	323	2185	1700	3264	312	540	-365	C
ATOM	2633	C	PHE	D	323	68.551	-12.810	-16.119	1.00	23.35		C
ANISOU	2633	C	PHE	D	323	2228	2449	4195	574	541	-174	C
ATOM	2634	O	PHE	D	323	68.114	-12.092	-15.213	1.00	22.75		O
ANISOU	2634	O	PHE	D	323	2155	2426	4064	488	412	-101	O
ATOM	2635	N	SER	D	324	69.271	-12.361	-17.128	1.00	24.41		N
ANISOU	2635	N	SER	D	324	2245	2654	4374	623	689	-212	N
ATOM	2636	CA	SER	D	324	69.624	-10.980	-17.324	1.00	25.05		C
ANISOU	2636	CA	SER	D	324	2189	2868	4460	566	717	-160	C
ATOM	2637	CB	SER	D	324	71.102	-10.908	-17.645	1.00	26.25		C
ANISOU	2637	CB	SER	D	324	2123	3028	4822	674	816	-146	C
ATOM	2638	OG	SER	D	324	71.632	-9.664	-17.257	1.00	30.85		O
ANISOU	2638	OG	SER	D	324	2540	3694	5489	607	763	-65	O
ATOM	2639	C	SER	D	324	68.774	-10.395	-18.480	1.00	24.43		C
ANISOU	2639	C	SER	D	324	2213	2890	4180	485	840	-211	C
ATOM	2640	O	SER	D	324	68.616	-11.018	-19.533	1.00	26.03		O
ANISOU	2640	O	SER	D	324	2506	3084	4301	525	976	-305	O
ATOM	2641	N	PHE	D	325	68.185	-9.219	-18.275	1.00	22.46		N
ANISOU	2641	N	PHE	D	325	1967	2727	3838	380	779	-155	N
ATOM	2642	CA	PHE	D	325	67.496	-8.549	-19.370	1.00	21.87		C

Figure 18 (continued)

ANISOU	2642	CA	PHE	D	325	1975	2750	3586	326	877	-178	C
ATOM	2643	CB	PHE	D	325	66.033	-9.046	-19.505	1.00	20.62		C
ANISOU	2643	CB	PHE	D	325	1995	2598	3243	268	813	-247	C
ATOM	2644	CG	PHE	D	325	65.292	-8.433	-20.664	1.00	20.13		C
ANISOU	2644	CG	PHE	D	325	2019	2644	2985	231	879	-274	C
ATOM	2645	CD1	PHE	D	325	65.624	-8.761	-21.981	1.00	21.66		C
ANISOU	2645	CD1	PHE	D	325	2270	2870	3090	285	1038	-341	C
ATOM	2646	CE1	PHE	D	325	64.947	-8.172	-23.059	1.00	22.94		C
ANISOU	2646	CE1	PHE	D	325	2536	3141	3041	260	1079	-353	C
ATOM	2647	CZ	PHE	D	325	63.902	-7.259	-22.812	1.00	21.18		C
ANISOU	2647	CZ	PHE	D	325	2337	2986	2723	190	953	-296	C
ATOM	2648	CE2	PHE	D	325	63.581	-6.933	-21.498	1.00	16.68		C
ANISOU	2648	CE2	PHE	D	325	1694	2379	2264	142	816	-240	C
ATOM	2649	CD2	PHE	D	325	64.266	-7.516	-20.443	1.00	17.35		C
ANISOU	2649	CD2	PHE	D	325	1699	2364	2528	156	782	-231	C
ATOM	2650	C	PHE	D	325	67.564	-7.047	-19.143	1.00	21.28		C
ANISOU	2650	C	PHE	D	325	1823	2743	3519	255	845	-83	C
ATOM	2651	O	PHE	D	325	67.193	-6.571	-18.081	1.00	20.40		O
ANISOU	2651	O	PHE	D	325	1704	2620	3427	202	694	-41	O
ATOM	2652	N	GLY	D	326	68.068	-6.315	-20.129	1.00	22.68		N
ANISOU	2652	N	GLY	D	326	1956	2980	3681	255	996	-51	N
ATOM	2653	CA	GLY	D	326	68.092	-4.857	-20.077	1.00	21.89		C
ANISOU	2653	CA	GLY	D	326	1812	2918	3589	180	986	43	C
ATOM	2654	C	GLY	D	326	68.926	-4.267	-18.972	1.00	21.89		C
ANISOU	2654	C	GLY	D	326	1648	2871	3799	145	884	102	C
ATOM	2655	O	GLY	D	326	68.699	-3.141	-18.549	1.00	22.59		O
ANISOU	2655	O	GLY	D	326	1733	2957	3894	70	809	157	O
ATOM	2656	N	GLY	D	327	69.900	-5.022	-18.502	1.00	23.39		N
ANISOU	2656	N	GLY	D	327	1704	3016	4166	204	868	84	N
ATOM	2657	CA	GLY	D	327	70.839	-4.538	-17.493	1.00	23.14		C
ANISOU	2657	CA	GLY	D	327	1492	2951	4348	176	749	131	C
ATOM	2658	C	GLY	D	327	70.329	-4.854	-16.096	1.00	21.75		C
ANISOU	2658	C	GLY	D	327	1381	2731	4150	171	514	118	C
ATOM	2659	O	GLY	D	327	70.892	-4.379	-15.118	1.00	22.68		O
ANISOU	2659	O	GLY	D	327	1397	2828	4394	138	366	145	O
ATOM	2660	N	PHE	D	328	69.279	-5.678	-16.009	1.00	19.65		N
ANISOU	2660	N	PHE	D	328	1290	2454	3722	196	483	75	N
ATOM	2661	CA	PHE	D	328	68.706	-6.111	-14.734	1.00	17.83		C
ANISOU	2661	CA	PHE	D	328	1149	2184	3442	190	299	73	C
ATOM	2662	CB	PHE	D	328	67.233	-5.642	-14.619	1.00	15.94		C
ANISOU	2662	CB	PHE	D	328	1072	1982	3001	117	271	59	C
ATOM	2663	CG	PHE	D	328	67.092	-4.187	-14.431	1.00	14.33		C
ANISOU	2663	CG	PHE	D	328	847	1811	2787	46	236	88	C
ATOM	2664	CD1	PHE	D	328	67.017	-3.642	-13.141	1.00	16.78		C
ANISOU	2664	CD1	PHE	D	328	1171	2101	3102	9	76	98	C
ATOM	2665	CE1	PHE	D	328	66.918	-2.239	-12.944	1.00	15.67		C
ANISOU	2665	CE1	PHE	D	328	1024	1962	2966	-54	42	109	C
ATOM	2666	CZ	PHE	D	328	66.886	-1.387	-14.054	1.00	15.40		C
ANISOU	2666	CZ	PHE	D	328	971	1944	2938	-80	169	134	C
ATOM	2667	CE2	PHE	D	328	66.986	-1.913	-15.341	1.00	14.72		C
ANISOU	2667	CE2	PHE	D	328	873	1892	2828	-43	329	144	C
ATOM	2668	CD2	PHE	D	328	67.088	-3.328	-15.522	1.00	15.45		C
ANISOU	2668	CD2	PHE	D	328	971	1989	2910	21	362	108	C
ATOM	2669	C	PHE	D	328	68.769	-7.623	-14.575	1.00	18.64		C
ANISOU	2669	C	PHE	D	328	1303	2216	3563	279	290	46	C
ATOM	2670	O	PHE	D	328	68.507	-8.386	-15.522	1.00	20.76		O
ANISOU	2670	O	PHE	D	328	1636	2471	3780	318	422	-9	O
ATOM	2671	N	THR	D	329	69.112	-8.074	-13.376	1.00	18.73		N
ANISOU	2671	N	THR	D	329	1307	2172	3639	313	128	82	N
ATOM	2672	CA	THR	D	329	69.005	-9.486	-13.040	1.00	18.53		C
ANISOU	2672	CA	THR	D	329	1375	2049	3615	390	97	78	C
ATOM	2673	CB	THR	D	329	70.023	-9.885	-11.931	1.00	20.11		C
ANISOU	2673	CB	THR	D	329	1490	2190	3961	478	-77	142	C
ATOM	2674	OG1	THR	D	329	71.364	-9.562	-12.341	1.00	19.13		O
ANISOU	2674	OG1	THR	D	329	1128	2092	4050	544	-48	144	O
ATOM	2675	CG2	THR	D	329	69.932	-11.382	-11.615	1.00	18.59		C
ANISOU	2675	CG2	THR	D	329	1418	1867	3778	573	-104	159	C
ATOM	2676	C	THR	D	329	67.566	-9.736	-12.566	1.00	17.59		C
ANISOU	2676	C	THR	D	329	1460	1922	3302	307	61	73	C
ATOM	2677	O	THR	D	329	67.134	-9.147	-11.597	1.00	17.15		O
ANISOU	2677	O	THR	D	329	1450	1898	3166	247	-52	110	O

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Figure 18 (continued)

ATOM	2678	N	PHE	D	330	66.827	-10.592	-13.275	1.00	17.78		N
ANISOU	2678	N	PHE	D	330	1597	1907	3254	299	165	17	N
ATOM	2679	CA	PHE	D	330	65.483	-11.015	-12.896	1.00	16.15		C
ANISOU	2679	CA	PHE	D	330	1553	1684	2900	211	149	7	C
ATOM	2680	CB	PHE	D	330	64.639	-11.297	-14.140	1.00	15.29		C
ANISOU	2680	CB	PHE	D	330	1503	1600	2706	164	276	-89	C
ATOM	2681	CG	PHE	D	330	64.137	-10.053	-14.865	1.00	14.68		C
ANISOU	2681	CG	PHE	D	330	1379	1664	2533	108	322	-115	C
ATOM	2682	CD1	PHE	D	330	62.776	-9.790	-14.933	1.00	13.44		C
ANISOU	2682	CD1	PHE	D	330	1289	1576	2242	15	315	-144	C
ATOM	2683	CE1	PHE	D	330	62.297	-8.658	-15.616	1.00	12.28		C
ANISOU	2683	CE1	PHE	D	330	1106	1548	2011	-11	342	-157	C
ATOM	2684	CZ	PHE	D	330	63.203	-7.777	-16.224	1.00	10.41		C
ANISOU	2684	CZ	PHE	D	330	787	1349	1819	38	392	-129	C
ATOM	2685	CE2	PHE	D	330	64.553	-8.017	-16.140	1.00	10.15		C
ANISOU	2685	CE2	PHE	D	330	674	1255	1926	107	417	-102	C
ATOM	2686	CD2	PHE	D	330	65.026	-9.161	-15.481	1.00	11.56		C
ANISOU	2686	CD2	PHE	D	330	868	1328	2197	152	376	-101	C
ATOM	2687	C	PHE	D	330	65.588	-12.317	-12.123	1.00	18.49		C
ANISOU	2687	C	PHE	D	330	1952	1835	3239	255	88	51	C
ATOM	2688	O	PHE	D	330	66.310	-13.222	-12.529	1.00	19.07		O
ANISOU	2688	O	PHE	D	330	2014	1802	3429	356	126	32	O
ATOM	2689	N	LYS	D	331	64.871	-12.417	-11.004	1.00	18.87		N
ANISOU	2689	N	LYS	D	331	2112	1869	3190	188	7	114	N
ATOM	2690	CA	LYS	D	331	64.775	-13.663	-10.273	1.00	19.84		C
ANISOU	2690	CA	LYS	D	331	2374	1841	3323	209	-35	177	C
ATOM	2691	CB	LYS	D	331	65.564	-13.571	-8.961	1.00	21.52		C
ANISOU	2691	CB	LYS	D	331	2594	2030	3554	282	-199	293	C
ATOM	2692	CG	LYS	D	331	67.070	-13.465	-9.152	1.00	23.54		C
ANISOU	2692	CG	LYS	D	331	2684	2273	3989	429	-270	302	C
ATOM	2693	CD	LYS	D	331	67.817	-13.640	-7.837	1.00	30.28		C
ANISOU	2693	CD	LYS	D	331	3560	3083	4861	514	-470	419	C
ATOM	2694	CE	LYS	D	331	69.326	-13.743	-8.063	1.00	32.87		C
ANISOU	2694	CE	LYS	D	331	3692	3387	5410	673	-546	426	C
ATOM	2695	NZ	LYS	D	331	70.045	-13.890	-6.766	1.00	36.55		N
ANISOU	2695	NZ	LYS	D	331	4174	3826	5889	762	-782	540	N
ATOM	2696	C	LYS	D	331	63.317	-13.898	-9.984	1.00	19.36		C
ANISOU	2696	C	LYS	D	331	2445	1788	3123	64	15	174	C
ATOM	2697	O	LYS	D	331	62.675	-13.085	-9.342	1.00	18.88		O
ANISOU	2697	O	LYS	D	331	2391	1836	2946	-11	-10	198	O
ATOM	2698	N	ARG	D	332	62.778	-15.009	-10.461	1.00	19.97		N
ANISOU	2698	N	ARG	D	332	2620	1747	3223	20	93	133	N
ATOM	2699	CA	ARG	D	332	61.355	-15.290	-10.281	1.00	19.72		C
ANISOU	2699	CA	ARG	D	332	2679	1723	3091	-141	152	120	C
ATOM	2700	CB	ARG	D	332	60.867	-16.358	-11.279	1.00	20.07		C
ANISOU	2700	CB	ARG	D	332	2784	1649	3191	-199	239	17	C
ATOM	2701	CG	ARG	D	332	59.346	-16.450	-11.354	1.00	20.01		C
ANISOU	2701	CG	ARG	D	332	2804	1695	3106	-388	297	-30	C
ATOM	2702	CD	ARG	D	332	58.875	-17.327	-12.504	1.00	20.70		C
ANISOU	2702	CD	ARG	D	332	2929	1692	3243	-458	356	-169	C
ATOM	2703	NE	ARG	D	332	59.269	-18.715	-12.316	1.00	22.45		N
ANISOU	2703	NE	ARG	D	332	3301	1656	3571	-438	369	-145	N
ATOM	2704	CZ	ARG	D	332	59.397	-19.590	-13.307	1.00	25.52		C
ANISOU	2704	CZ	ARG	D	332	3753	1907	4035	-430	408	-274	C
ATOM	2705	NH1	ARG	D	332	59.137	-19.233	-14.566	1.00	25.47		N
ANISOU	2705	NH1	ARG	D	332	3678	2016	3984	-447	433	-436	N
ATOM	2706	NH2	ARG	D	332	59.748	-20.829	-13.035	1.00	27.36		N
ANISOU	2706	NH2	ARG	D	332	4137	1879	4378	-401	419	-243	N
ATOM	2707	C	ARG	D	332	61.108	-15.726	-8.841	1.00	20.88		C
ANISOU	2707	C	ARG	D	332	2961	1796	3175	-177	105	260	C
ATOM	2708	O	ARG	D	332	61.801	-16.602	-8.331	1.00	21.02		O
ANISOU	2708	O	ARG	D	332	3078	1652	3257	-95	52	348	O
ATOM	2709	N	THR	D	333	60.149	-15.078	-8.180	1.00	20.24		N
ANISOU	2709	N	THR	D	333	2890	1838	2964	-284	127	286	N
ATOM	2710	CA	THR	D	333	59.820	-15.426	-6.778	1.00	21.32		C
ANISOU	2710	CA	THR	D	333	3176	1927	2997	-328	111	423	C
ATOM	2711	CB	THR	D	333	59.888	-14.174	-5.876	1.00	20.56		C
ANISOU	2711	CB	THR	D	333	3051	1993	2767	-301	47	456	C
ATOM	2712	OG1	THR	D	333	59.095	-13.132	-6.468	1.00	19.68		O
ANISOU	2712	OG1	THR	D	333	2807	2049	2621	-363	113	346	O
ATOM	2713	CG2	THR	D	333	61.342	-13.644	-5.770	1.00	21.41		C

Figure 18 (continued)

ANISOU	2713	CG2	THR	D	333	3092	2109	2933	-143	-107	471	C
ATOM	2714	C	THR	D	333	58.450	-16.124	-6.612	1.00	22.28		C
ANISOU	2714	C	THR	D	333	3381	2007	3077	-508	241	434	C
ATOM	2715	O	THR	D	333	58.187	-16.719	-5.565	1.00	24.07		O
ANISOU	2715	O	THR	D	333	3763	2148	3232	-557	263	564	O
ATOM	2716	N	SER	D	334	57.595	-16.054	-7.636	1.00	21.08		N
ANISOU	2716	N	SER	D	334	3124	1916	2968	-609	321	305	N
ATOM	2717	CA	SER	D	334	56.275	-16.727	-7.644	1.00	22.78		C
ANISOU	2717	CA	SER	D	334	3368	2099	3187	-801	437	290	C
ATOM	2718	CB	SER	D	334	55.169	-15.774	-7.203	1.00	22.34		C
ANISOU	2718	CB	SER	D	334	3214	2251	3025	-891	506	277	C
ATOM	2719	OG	SER	D	334	54.919	-15.851	-5.848	1.00	26.42		O
ANISOU	2719	OG	SER	D	334	3849	2761	3430	-928	557	413	O
ATOM	2720	C	SER	D	334	55.889	-17.081	-9.055	1.00	21.71		C
ANISOU	2720	C	SER	D	334	3148	1948	3153	-862	459	131	C
ATOM	2721	O	SER	D	334	56.317	-16.426	-9.985	1.00	20.94		O
ANISOU	2721	O	SER	D	334	2944	1944	3068	-771	412	32	O
ATOM	2722	N	GLY	D	335	55.021	-18.077	-9.193	1.00	23.23		N
ANISOU	2722	N	GLY	D	335	3391	2027	3407	-1030	533	108	N
ATOM	2723	CA	GLY	D	335	54.375	-18.411	-10.458	1.00	21.87		C
ANISOU	2723	CA	GLY	D	335	3139	1860	3310	-1132	543	-62	C
ATOM	2724	C	GLY	D	335	55.276	-19.178	-11.397	1.00	22.97		C
ANISOU	2724	C	GLY	D	335	3362	1826	3539	-1040	501	-149	C
ATOM	2725	O	GLY	D	335	56.339	-19.683	-10.997	1.00	21.77		O
ANISOU	2725	O	GLY	D	335	3331	1510	3430	-910	477	-63	O
ATOM	2726	N	SER	D	336	54.833	-19.252	-12.651	1.00	23.39		N
ANISOU	2726	N	SER	D	336	3346	1924	3615	-1097	487	-326	N
ATOM	2727	CA	SER	D	336	55.445	-20.058	-13.689	1.00	25.47		C
ANISOU	2727	CA	SER	D	336	3699	2029	3950	-1039	472	-454	C
ATOM	2728	CB	SER	D	336	55.193	-21.560	-13.460	1.00	28.08		C
ANISOU	2728	CB	SER	D	336	4201	2067	4403	-1165	513	-454	C
ATOM	2729	OG	SER	D	336	53.803	-21.892	-13.365	1.00	31.54		O
ANISOU	2729	OG	SER	D	336	4597	2519	4869	-1418	545	-493	O
ATOM	2730	C	SER	D	336	54.844	-19.634	-15.019	1.00	25.72		C
ANISOU	2730	C	SER	D	336	3625	2220	3926	-1088	437	-644	C
ATOM	2731	O	SER	D	336	53.847	-18.912	-15.056	1.00	25.59		O
ANISOU	2731	O	SER	D	336	3468	2403	3851	-1187	417	-664	O
ATOM	2732	N	SER	D	337	55.464	-20.046	-16.117	1.00	26.46		N
ANISOU	2732	N	SER	D	337	3787	2238	4029	-1003	427	-783	N
ATOM	2733	CA	SER	D	337	54.928	-19.730	-17.429	1.00	27.34		C
ANISOU	2733	CA	SER	D	337	3839	2495	4056	-1043	381	-965	C
ATOM	2734	CB	SER	D	337	55.383	-18.344	-17.922	1.00	25.38		C
ANISOU	2734	CB	SER	D	337	3476	2488	3680	-890	361	-946	C
ATOM	2735	OG	SER	D	337	56.780	-18.297	-18.126	1.00	26.90		O
ANISOU	2735	OG	SER	D	337	3722	2614	3884	-694	409	-919	O
ATOM	2736	C	SER	D	337	55.239	-20.809	-18.446	1.00	29.10		C
ANISOU	2736	C	SER	D	337	4212	2533	4312	-1040	389	-1148	C
ATOM	2737	O	SER	D	337	56.117	-21.653	-18.247	1.00	29.85		O
ANISOU	2737	O	SER	D	337	4444	2396	4503	-947	441	-1131	O
ATOM	2738	N	ILE	D	338	54.459	-20.799	-19.515	1.00	30.44		N
ANISOU	2738	N	ILE	D	338	4360	2804	4402	-1139	325	-1328	N
ATOM	2739	CA	ILE	D	338	54.760	-21.558	-20.713	1.00	32.19		C
ANISOU	2739	CA	ILE	D	338	4726	2912	4591	-1113	322	-1541	C
ATOM	2740	CB	ILE	D	338	53.644	-22.589	-21.052	1.00	34.45		C
ANISOU	2740	CB	ILE	D	338	5075	3071	4942	-1359	255	-1712	C
ATOM	2741	CG1	ILE	D	338	52.280	-21.909	-21.249	1.00	34.10		C
ANISOU	2741	CG1	ILE	D	338	4845	3281	4832	-1530	140	-1749	C
ATOM	2742	CD1	ILE	D	338	51.154	-22.880	-21.685	1.00	36.18		C
ANISOU	2742	CD1	ILE	D	338	5133	3442	5171	-1794	50	-1941	C
ATOM	2743	CG2	ILE	D	338	53.582	-23.654	-19.966	1.00	35.56		C
ANISOU	2743	CG2	ILE	D	338	5308	2920	5282	-1470	315	-1615	C
ATOM	2744	C	ILE	D	338	55.002	-20.549	-21.828	1.00	31.93		C
ANISOU	2744	C	ILE	D	338	4641	3126	4363	-988	294	-1615	C
ATOM	2745	O	ILE	D	338	54.712	-19.381	-21.647	1.00	30.28		O
ANISOU	2745	O	ILE	D	338	4282	3147	4075	-964	258	-1510	O
ATOM	2746	N	LYS	D	339	55.566	-20.983	-22.950	1.00	35.00		N
ANISOU	2746	N	LYS	D	339	5170	3459	4671	-897	324	-1788	N
ATOM	2747	CA	LYS	D	339	55.850	-20.096	-24.079	1.00	36.41		C
ANISOU	2747	CA	LYS	D	339	5338	3859	4637	-776	321	-1851	C
ATOM	2748	CB	LYS	D	339	57.326	-20.142	-24.495	1.00	36.95		C
ANISOU	2748	CB	LYS	D	339	5494	3859	4687	-549	472	-1853	C

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Figure 18 (continued)

ATOM	2749	CG	LYS	D	339	58.378	-19.987	-23.447	1.00	37.74	C	
ANISOU	2749	CG	LYS	D	339	5523	3868	4948	-415	568	-1657	C
ATOM	2750	CD	LYS	D	339	59.724	-20.262	-24.109	1.00	42.28	C	
ANISOU	2750	CD	LYS	D	339	6178	4366	5520	-206	718	-1721	C
ATOM	2751	CE	LYS	D	339	60.861	-20.353	-23.116	1.00	43.49	C	
ANISOU	2751	CE	LYS	D	339	6261	4395	5869	-62	795	-1556	C
ATOM	2752	NZ	LYS	D	339	62.013	-21.010	-23.793	1.00	46.57	N	
ANISOU	2752	NZ	LYS	D	339	6738	4653	6302	127	942	-1667	N
ATOM	2753	C	LYS	D	339	55.092	-20.560	-25.307	1.00	39.56	C	
ANISOU	2753	C	LYS	D	339	5843	4294	4893	-881	222	-2099	C
ATOM	2754	O	LYS	D	339	54.885	-21.757	-25.525	1.00	41.85	O	
ANISOU	2754	O	LYS	D	339	6273	4373	5255	-979	208	-2268	O
ATOM	2755	N	ARG	D	340	54.750	-19.599	-26.148	1.00	40.34	N	
ANISOU	2755	N	ARG	D	340	5894	4653	4779	-847	148	-2123	N
ATOM	2756	CA	ARG	D	340	54.128	-19.873	-27.426	1.00	43.61	C	
ANISOU	2756	CA	ARG	D	340	6421	5149	5002	-912	32	-2354	C
ATOM	2757	CB	ARG	D	340	52.616	-19.731	-27.273	1.00	44.40	C	
ANISOU	2757	CB	ARG	D	340	6374	5372	5123	-1124	-171	-2385	C
ATOM	2758	CG	ARG	D	340	51.801	-20.062	-28.490	1.00	48.83	C	
ANISOU	2758	CG	ARG	D	340	7023	6024	5507	-1227	-350	-2632	C
ATOM	2759	CD	ARG	D	340	50.478	-19.350	-28.366	1.00	52.29	C	
ANISOU	2759	CD	ARG	D	340	7237	6693	5939	-1353	-548	-2586	C
ATOM	2760	NE	ARG	D	340	49.496	-19.823	-29.329	1.00	58.76	N	
ANISOU	2760	NE	ARG	D	340	8095	7584	6649	-1504	-768	-2830	N
ATOM	2761	CZ	ARG	D	340	48.306	-19.252	-29.509	1.00	62.04	C	
ANISOU	2761	CZ	ARG	D	340	8317	8227	7030	-1600	-982	-2837	C
ATOM	2762	NH1	ARG	D	340	47.964	-18.181	-28.792	1.00	60.08	N	
ANISOU	2762	NH1	ARG	D	340	7836	8142	6848	-1546	-980	-2613	N
ATOM	2763	NH2	ARG	D	340	47.457	-19.748	-30.409	1.00	66.38	N	
ANISOU	2763	NH2	ARG	D	340	8900	8838	7483	-1742	-1208	-3077	N
ATOM	2764	C	ARG	D	340	54.699	-18.825	-28.379	1.00	43.42	C	
ANISOU	2764	C	ARG	D	340	6432	5344	4723	-731	75	-2320	C
ATOM	2765	O	ARG	D	340	54.666	-17.628	-28.079	1.00	41.49	O	
ANISOU	2765	O	ARG	D	340	6042	5281	4442	-669	66	-2130	O
ATOM	2766	N	GLU	D	341	55.293	-19.272	-29.480	1.00	45.77	N	
ANISOU	2766	N	GLU	D	341	6935	5607	4850	-638	147	-2495	N
ATOM	2767	CA	GLU	D	341	55.826	-18.341	-30.477	1.00	46.72	C	
ANISOU	2767	CA	GLU	D	341	7119	5932	4699	-477	212	-2464	C
ATOM	2768	CB	GLU	D	341	56.762	-19.062	-31.453	1.00	49.50	C	
ANISOU	2768	CB	GLU	D	341	7709	6182	4915	-352	375	-2651	C
ATOM	2769	CG	GLU	D	341	57.526	-18.146	-32.413	1.00	51.74	C	
ANISOU	2769	CG	GLU	D	341	8071	6657	4932	-174	514	-2591	C
ATOM	2770	CD	GLU	D	341	58.919	-18.672	-32.742	1.00	55.51	C	
ANISOU	2770	CD	GLU	D	341	8666	6998	5426	1	793	-2654	C
ATOM	2771	OE1	GLU	D	341	59.022	-19.726	-33.415	1.00	59.55	O	
ANISOU	2771	OE1	GLU	D	341	9387	7379	5861	12	832	-2909	O
ATOM	2772	OE2	GLU	D	341	59.911	-18.027	-32.326	1.00	54.92	O	
ANISOU	2772	OE2	GLU	D	341	8468	6945	5454	128	973	-2457	O
ATOM	2773	C	GLU	D	341	54.668	-17.653	-31.202	1.00	47.34	C	
ANISOU	2773	C	GLU	D	341	7175	6260	4552	-555	-12	-2501	C
ATOM	2774	O	GLU	D	341	53.755	-18.308	-31.666	1.00	49.11	O	
ANISOU	2774	O	GLU	D	341	7462	6479	4718	-696	-188	-2701	O
ATOM	2775	N	GLU	D	342	54.698	-16.327	-31.260	1.00	46.37	N	
ANISOU	2775	N	GLU	D	342	6952	6343	4322	-463	-17	-2304	N
ATOM	2776	CA	GLU	D	342	53.581	-15.557	-31.814	1.00	48.18	C	
ANISOU	2776	CA	GLU	D	342	7130	6809	4367	-510	-246	-2296	C
ATOM	2777	CB	GLU	D	342	52.718	-14.978	-30.691	1.00	45.85	C	
ANISOU	2777	CB	GLU	D	342	6568	6567	4287	-600	-362	-2136	C
ATOM	2778	CG	GLU	D	342	51.598	-15.878	-30.201	1.00	49.03	C	
ANISOU	2778	CG	GLU	D	342	6868	6895	4866	-815	-524	-2272	C
ATOM	2779	CD	GLU	D	342	50.813	-15.233	-29.079	1.00	48.12	C	
ANISOU	2779	CD	GLU	D	342	6483	6849	4951	-882	-591	-2102	C
ATOM	2780	OE1	GLU	D	342	50.844	-15.791	-27.956	1.00	52.42	O	
ANISOU	2780	OE1	GLU	D	342	6943	7228	5746	-975	-507	-2058	O
ATOM	2781	OE2	GLU	D	342	50.194	-14.158	-29.301	1.00	51.11	O	
ANISOU	2781	OE2	GLU	D	342	6748	7440	5233	-829	-716	-2007	O
ATOM	2782	C	GLU	D	342	54.051	-14.407	-32.683	1.00	47.55	C	
ANISOU	2782	C	GLU	D	342	7135	6921	4011	-343	-190	-2174	C
ATOM	2783	O	GLU	D	342	55.108	-13.831	-32.436	1.00	45.79	O	
ANISOU	2783	O	GLU	D	342	6900	6671	3827	-217	22	-2008	O
ATOM	2784	N	GLU	D	343	53.237	-14.060	-33.674	1.00	49.19	N	

Figure 18 (continued)

ANISOU	2784	N	GLU	D	343	7421	7319	3949	-350	-391	-2247	N
ATOM	2785	CA	GLU	D	343	53.517	-12.924	-34.539	1.00	49.57		C
ANISOU	2785	CA	GLU	D	343	7571	7555	3708	-200	-366	-2109	C
ATOM	2786	CB	GLU	D	343	53.181	-13.255	-35.991	1.00	53.34		C
ANISOU	2786	CB	GLU	D	343	8304	8158	3805	-185	-494	-2308	C
ATOM	2787	CG	GLU	D	343	53.423	-14.707	-36.327	1.00	57.34		C
ANISOU	2787	CG	GLU	D	343	8979	8503	4305	-258	-446	-2603	C
ATOM	2788	CD	GLU	D	343	54.110	-14.904	-37.652	1.00	62.14		C
ANISOU	2788	CD	GLU	D	343	9908	9165	4538	-141	-320	-2734	C
ATOM	2789	OE1	GLU	D	343	53.678	-14.282	-38.648	1.00	66.06		O
ANISOU	2789	OE1	GLU	D	343	10542	9875	4684	-85	-464	-2723	O
ATOM	2790	OE2	GLU	D	343	55.074	-15.699	-37.694	1.00	62.92		O
ANISOU	2790	OE2	GLU	D	343	10127	9092	4688	-95	-77	-2850	O
ATOM	2791	C	GLU	D	343	52.733	-11.701	-34.073	1.00	47.50		C
ANISOU	2791	C	GLU	D	343	7105	7439	3503	-187	-523	-1896	C
ATOM	2792	O	GLU	D	343	51.494	-11.696	-34.101	1.00	48.59		O
ANISOU	2792	O	GLU	D	343	7137	7683	3642	-274	-791	-1960	O
ATOM	2793	N	VAL	D	344	53.461	-10.674	-33.637	1.00	44.51		N
ANISOU	2793	N	VAL	D	344	6664	7057	3190	-77	-355	-1653	N
ATOM	2794	CA	VAL	D	344	52.851	-9.406	-33.207	1.00	42.32		C
ANISOU	2794	CA	VAL	D	344	6222	6892	2967	-33	-471	-1441	C
ATOM	2795	CB	VAL	D	344	53.315	-8.974	-31.787	1.00	38.72		C
ANISOU	2795	CB	VAL	D	344	5564	6310	2839	-38	-329	-1273	C
ATOM	2796	CG1	VAL	D	344	52.789	-9.950	-30.744	1.00	37.84		C
ANISOU	2796	CG1	VAL	D	344	5295	6085	2998	-187	-384	-1388	C
ATOM	2797	CG2	VAL	D	344	54.852	-8.867	-31.698	1.00	37.43		C
ANISOU	2797	CG2	VAL	D	344	5480	6029	2712	42	-33	-1181	C
ATOM	2798	C	VAL	D	344	53.142	-8.313	-34.227	1.00	43.10		C
ANISOU	2798	C	VAL	D	344	6482	7128	2765	114	-449	-1292	C
ATOM	2799	O	VAL	D	344	54.177	-8.360	-34.880	1.00	43.50		O
ANISOU	2799	O	VAL	D	344	6721	7153	2653	187	-238	-1280	O
ATOM	2800	N	LEU	D	345	52.223	-7.349	-34.352	1.00	43.51		N
ANISOU	2800	N	LEU	D	345	6459	7320	2751	163	-657	-1172	N
ATOM	2801	CA	LEU	D	345	52.330	-6.227	-35.300	1.00	45.05		C
ANISOU	2801	CA	LEU	D	345	6817	7642	2659	308	-675	-998	C
ATOM	2802	CB	LEU	D	345	51.020	-6.033	-36.060	1.00	47.61		C
ANISOU	2802	CB	LEU	D	345	7160	8159	2770	333	-1020	-1052	C
ATOM	2803	CG	LEU	D	345	50.743	-6.475	-37.488	1.00	51.69		C
ANISOU	2803	CG	LEU	D	345	7938	8822	2881	358	-1172	-1200	C
ATOM	2804	CD1	LEU	D	345	49.400	-5.893	-37.870	1.00	52.98		C
ANISOU	2804	CD1	LEU	D	345	8021	9173	2935	408	-1542	-1167	C
ATOM	2805	CD2	LEU	D	345	51.809	-6.018	-38.456	1.00	52.76		C
ANISOU	2805	CD2	LEU	D	345	8377	8975	2694	479	-945	-1081	C
ATOM	2806	C	LEU	D	345	52.638	-4.914	-34.591	1.00	43.02		C
ANISOU	2806	C	LEU	D	345	6443	7334	2567	390	-577	-726	C
ATOM	2807	O	LEU	D	345	51.867	-4.483	-33.736	1.00	41.31		O
ANISOU	2807	O	LEU	D	345	6010	7119	2567	375	-711	-671	O
ATOM	2808	N	THR	D	346	53.739	-4.270	-34.977	1.00	43.51		N
ANISOU	2808	N	THR	D	346	6654	7353	2525	471	-339	-564	N
ATOM	2809	CA	THR	D	346	54.144	-3.000	-34.387	1.00	42.63		C
ANISOU	2809	CA	THR	D	346	6463	7169	2566	535	-233	-311	C
ATOM	2810	CB	THR	D	346	55.658	-2.699	-34.549	1.00	42.01		C
ANISOU	2810	CB	THR	D	346	6490	6988	2482	557	105	-189	C
ATOM	2811	OG1	THR	D	346	55.892	-2.121	-35.833	1.00	44.89		O
ANISOU	2811	OG1	THR	D	346	7110	7447	2499	650	159	-72	O
ATOM	2812	CG2	THR	D	346	56.495	-3.942	-34.379	1.00	40.99		C
ANISOU	2812	CG2	THR	D	346	6357	6779	2440	484	289	-371	C
ATOM	2813	C	THR	D	346	53.350	-1.816	-34.938	1.00	44.91		C
ANISOU	2813	C	THR	D	346	6813	7567	2686	654	-424	-137	C
ATOM	2814	O	THR	D	346	52.564	-1.953	-35.884	1.00	47.19		O
ANISOU	2814	O	THR	D	346	7219	8008	2701	699	-638	-198	O
ATOM	2815	N	GLY	D	347	53.580	-0.657	-34.312	1.00	44.77		N
ANISOU	2815	N	GLY	D	347	6714	7455	2839	706	-353	76	N
ATOM	2816	CA	GLY	D	347	52.914	0.595	-34.643	1.00	47.06		C
ANISOU	2816	CA	GLY	D	347	7049	7795	3037	837	-509	273	C
ATOM	2817	C	GLY	D	347	53.311	1.122	-35.999	1.00	50.85		C
ANISOU	2817	C	GLY	D	347	7832	8341	3149	933	-452	421	C
ATOM	2818	O	GLY	D	347	52.763	2.128	-36.458	1.00	53.05		O
ANISOU	2818	O	GLY	D	347	8198	8660	3297	1060	-596	601	O
ATOM	2819	N	ASN	D	348	54.272	0.453	-36.638	1.00	51.99		N
ANISOU	2819	N	ASN	D	348	8144	8489	3120	885	-232	354	N

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Figure 18 (continued)

ATOM	2820	CA	ASN	D	348	54.607	0.740	-38.029	1.00	55.74	C
ANISOU	2820	CA	ASN	D	348	8937	9058	3184	967	-164	458
ATOM	2821	CB	ASN	D	348	56.043	1.273	-38.165	1.00	56.17	C
ANISOU	2821	CB	ASN	D	348	9099	8991	3252	953	220	639
ATOM	2822	CG	ASN	D	348	56.246	2.063	-39.453	1.00	61.46	C
ANISOU	2822	CG	ASN	D	348	10094	9733	3527	1057	289	857
ATOM	2823	OD1	ASN	D	348	55.428	2.921	-39.808	1.00	64.89	O
ANISOU	2823	OD1	ASN	D	348	10617	10214	3824	1167	67	1018
ATOM	2824	ND2	ASN	D	348	57.326	1.760	-40.175	1.00	64.62	N
ANISOU	2824	ND2	ASN	D	348	10677	10143	3734	1033	603	867
ATOM	2825	C	ASN	D	348	54.350	-0.455	-38.966	1.00	57.47	C
ANISOU	2825	C	ASN	D	348	9315	9429	3090	945	-253	215
ATOM	2826	O	ASN	D	348	54.970	-0.582	-40.028	1.00	59.79	O
ANISOU	2826	O	ASN	D	348	9882	9784	3050	980	-93	233
ATOM	2827	N	LEU	D	349	53.412	-1.315	-38.557	1.00	56.20	N
ANISOU	2827	N	LEU	D	349	8987	9325	3042	880	-504	-17
ATOM	2828	CA	LEU	D	349	52.992	-2.499	-39.333	1.00	57.58	C
ANISOU	2828	CA	LEU	D	349	9285	9625	2966	836	-647	-288
ATOM	2829	CB	LEU	D	349	52.211	-2.097	-40.591	1.00	61.54	C
ANISOU	2829	CB	LEU	D	349	10023	10324	3035	950	-912	-241
ATOM	2830	CG	LEU	D	349	50.920	-1.293	-40.393	1.00	62.61	C
ANISOU	2830	CG	LEU	D	349	10006	10547	3235	1033	-1273	-131
ATOM	2831	CD1	LEU	D	349	50.097	-1.301	-41.692	1.00	66.68	C
ANISOU	2831	CD1	LEU	D	349	10749	11283	3304	1126	-1593	-171
ATOM	2832	CD2	LEU	D	349	50.089	-1.802	-39.206	1.00	59.33	C
ANISOU	2832	CD2	LEU	D	349	9218	10095	3228	926	-1441	-291
ATOM	2833	C	LEU	D	349	54.118	-3.484	-39.668	1.00	56.92	C
ANISOU	2833	C	LEU	D	349	9346	9481	2800	775	-347	-445
ATOM	2834	O	LEU	D	349	54.078	-4.191	-40.669	1.00	59.54	O
ANISOU	2834	O	LEU	D	349	9905	9914	2802	781	-383	-615
ATOM	2835	N	GLN	D	350	55.114	-3.533	-38.799	1.00	53.58	N
ANISOU	2835	N	GLN	D	350	8781	8890	2685	724	-60	-398
ATOM	2836	CA	GLN	D	350	56.191	-4.499	-38.940	1.00	52.62	C
ANISOU	2836	CA	GLN	D	350	8734	8692	2566	681	227	-551
ATOM	2837	CB	GLN	D	350	57.506	-3.890	-38.472	1.00	51.26	C
ANISOU	2837	CB	GLN	D	350	8493	8390	2594	694	581	-356
ATOM	2838	CG	GLN	D	350	58.701	-4.803	-38.614	1.00	50.19	C
ANISOU	2838	CG	GLN	D	350	8402	8179	2489	677	898	-492
ATOM	2839	CD	GLN	D	350	59.992	-4.205	-38.068	1.00	48.94	C
ANISOU	2839	CD	GLN	D	350	8115	7899	2580	676	1225	-304
ATOM	2840	OE1	GLN	D	350	60.012	-3.105	-37.519	1.00	43.94	O
ANISOU	2840	OE1	GLN	D	350	7366	7218	2111	672	1213	-78
ATOM	2841	NE2	GLN	D	350	61.086	-4.936	-38.238	1.00	49.94	N
ANISOU	2841	NE2	GLN	D	350	8258	7972	2745	684	1516	-409
ATOM	2842	C	GLN	D	350	55.865	-5.750	-38.123	1.00	50.95	C
ANISOU	2842	C	GLN	D	350	8341	8395	2625	565	135	-811
ATOM	2843	O	GLN	D	350	55.432	-5.662	-36.975	1.00	47.85	O
ANISOU	2843	O	GLN	D	350	7690	7924	2565	503	31	-786
ATOM	2844	N	THR	D	351	56.049	-6.915	-38.728	1.00	52.61	N
ANISOU	2844	N	THR	D	351	8702	8610	2676	537	178	-1062
ATOM	2845	CA	THR	D	351	55.779	-8.175	-38.044	1.00	51.53	C
ANISOU	2845	CA	THR	D	351	8435	8362	2782	422	105	-1310
ATOM	2846	CB	THR	D	351	55.468	-9.299	-39.050	1.00	54.66	C
ANISOU	2846	CB	THR	D	351	9064	8813	2891	395	11	-1608
ATOM	2847	OG1	THR	D	351	54.324	-8.936	-39.833	1.00	58.05	O
ANISOU	2847	OG1	THR	D	351	9596	9433	3026	407	-315	-1629
ATOM	2848	CG2	THR	D	351	55.210	-10.608	-38.356	1.00	53.78	C
ANISOU	2848	CG2	THR	D	351	8837	8552	3047	266	-52	-1856
ATOM	2849	C	THR	D	351	56.988	-8.559	-37.210	1.00	49.24	C
ANISOU	2849	C	THR	D	351	8023	7884	2800	411	412	-1292
ATOM	2850	O	THR	D	351	58.117	-8.534	-37.699	1.00	50.66	O
ANISOU	2850	O	THR	D	351	8325	8042	2884	486	705	-1256
ATOM	2851	N	LEU	D	352	56.742	-8.897	-35.949	1.00	46.43	N
ANISOU	2851	N	LEU	D	352	7422	7404	2813	322	345	-1309
ATOM	2852	CA	LEU	D	352	57.770	-9.440	-35.074	1.00	44.39	C
ANISOU	2852	CA	LEU	D	352	7042	6963	2860	309	574	-1318
ATOM	2853	CB	LEU	D	352	58.010	-8.535	-33.873	1.00	41.23	C
ANISOU	2853	CB	LEU	D	352	6404	6502	2761	301	608	-1090
ATOM	2854	CG	LEU	D	352	58.524	-7.106	-34.038	1.00	41.08	C
ANISOU	2854	CG	LEU	D	352	6381	6541	2689	379	724	-827
ATOM	2855	CD1	LEU	D	352	58.549	-6.426	-32.663	1.00	36.89	C

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Figure 18 (continued)

ANISOU	2855	CD1	LEU	D	352	5605	5920	2491	342	695	-670	C
ATOM	2856	CD2	LEU	D	352	59.892	-7.044	-34.742	1.00	42.81		C
ANISOU	2856	CD2	LEU	D	352	6718	6745	2804	456	1049	-782	C
ATOM	2857	C	LEU	D	352	57.361	-10.814	-34.566	1.00	44.29		C
ANISOU	2857	C	LEU	D	352	6985	6825	3018	206	476	-1554	C
ATOM	2858	O	LEU	D	352	56.238	-11.002	-34.099	1.00	43.77		O
ANISOU	2858	O	LEU	D	352	6813	6774	3042	103	230	-1608	O
ATOM	2859	N	LYS	D	353	58.278	-11.768	-34.669	1.00	44.79		N
ANISOU	2859	N	LYS	D	353	7127	6756	3136	236	681	-1689	N
ATOM	2860	CA	LYS	D	353	58.073	-13.104	-34.159	1.00	45.15		C
ANISOU	2860	CA	LYS	D	353	7153	6632	3369	151	628	-1896	C
ATOM	2861	CB	LYS	D	353	58.797	-14.122	-35.043	1.00	47.86		C
ANISOU	2861	CB	LYS	D	353	7721	6897	3567	219	805	-2118	C
ATOM	2862	CG	LYS	D	353	58.258	-15.538	-34.984	1.00	49.96		C
ANISOU	2862	CG	LYS	D	353	8068	7007	3906	117	685	-2393	C
ATOM	2863	CD	LYS	D	353	59.022	-16.428	-35.977	1.00	54.00		C
ANISOU	2863	CD	LYS	D	353	8834	7446	4239	215	880	-2623	C
ATOM	2864	CE	LYS	D	353	58.155	-17.546	-36.539	1.00	59.44		C
ANISOU	2864	CE	LYS	D	353	9711	8070	4806	104	687	-2938	C
ATOM	2865	NZ	LYS	D	353	58.831	-18.247	-37.687	1.00	64.80		N
ANISOU	2865	NZ	LYS	D	353	10681	8712	5227	217	872	-3177	N
ATOM	2866	C	LYS	D	353	58.643	-13.117	-32.754	1.00	42.12		C
ANISOU	2866	C	LYS	D	353	6545	6092	3366	139	721	-1761	C
ATOM	2867	O	LYS	D	353	59.852	-13.025	-32.567	1.00	41.20		O
ANISOU	2867	O	LYS	D	353	6392	5905	3356	236	956	-1680	O
ATOM	2868	N	ILE	D	354	57.766	-13.202	-31.758	1.00	40.54		N
ANISOU	2868	N	ILE	D	354	6187	5851	3365	21	534	-1732	N
ATOM	2869	CA	ILE	D	354	58.192	-13.268	-30.366	1.00	38.30		C
ANISOU	2869	CA	ILE	D	354	5716	5424	3411	2	591	-1611	C
ATOM	2870	CB	ILE	D	354	57.745	-12.007	-29.553	1.00	36.18		C
ANISOU	2870	CB	ILE	D	354	5261	5254	3233	-19	498	-1388	C
ATOM	2871	CG1	ILE	D	354	56.211	-11.875	-29.518	1.00	36.29		C
ANISOU	2871	CG1	ILE	D	354	5222	5374	3193	-132	243	-1432	C
ATOM	2872	CD1	ILE	D	354	55.700	-10.892	-28.478	1.00	34.52		C
ANISOU	2872	CD1	ILE	D	354	4800	5199	3117	-155	163	-1250	C
ATOM	2873	CG2	ILE	D	354	58.399	-10.725	-30.109	1.00	35.98		C
ANISOU	2873	CG2	ILE	D	354	5252	5350	3070	93	613	-1218	C
ATOM	2874	C	ILE	D	354	57.669	-14.549	-29.696	1.00	38.61		C
ANISOU	2874	C	ILE	D	354	5744	5289	3636	-119	500	-1757	C
ATOM	2875	O	ILE	D	354	56.645	-15.128	-30.109	1.00	40.64		O
ANISOU	2875	O	ILE	D	354	6070	5566	3808	-231	333	-1922	O
ATOM	2876	N	ARG	D	355	58.383	-15.004	-28.679	1.00	36.91		N
ANISOU	2876	N	ARG	D	355	5447	4900	3678	-99	603	-1695	N
ATOM	2877	CA	ARG	D	355	57.871	-16.064	-27.832	1.00	37.02		C
ANISOU	2877	CA	ARG	D	355	5439	4735	3891	-219	522	-1768	C
ATOM	2878	CB	ARG	D	355	58.994	-16.964	-27.340	1.00	37.88		C
ANISOU	2878	CB	ARG	D	355	5582	4617	4194	-134	680	-1782	C
ATOM	2879	CG	ARG	D	355	59.574	-17.833	-28.449	1.00	45.02		C
ANISOU	2879	CG	ARG	D	355	6685	5434	4986	-48	798	-1993	C
ATOM	2880	CD	ARG	D	355	60.668	-18.706	-27.904	1.00	52.28		C
ANISOU	2880	CD	ARG	D	355	7615	6120	6130	61	947	-1997	C
ATOM	2881	NE	ARG	D	355	61.771	-18.840	-28.849	1.00	59.10		N
ANISOU	2881	NE	ARG	D	355	8572	6983	6901	238	1156	-2087	N
ATOM	2882	CZ	ARG	D	355	62.978	-19.295	-28.524	1.00	61.64		C
ANISOU	2882	CZ	ARG	D	355	8855	7157	7409	394	1324	-2061	C
ATOM	2883	NH1	ARG	D	355	63.241	-19.653	-27.265	1.00	59.91		N
ANISOU	2883	NH1	ARG	D	355	8522	6776	7463	396	1281	-1939	N
ATOM	2884	NH2	ARG	D	355	63.920	-19.396	-29.461	1.00	64.91		N
ANISOU	2884	NH2	ARG	D	355	9340	7592	7731	555	1536	-2157	N
ATOM	2885	C	ARG	D	355	57.115	-15.449	-26.673	1.00	33.46		C
ANISOU	2885	C	ARG	D	355	4803	4335	3576	-315	404	-1608	C
ATOM	2886	O	ARG	D	355	57.717	-14.849	-25.782	1.00	30.78		O
ANISOU	2886	O	ARG	D	355	4346	3982	3366	-256	470	-1430	O
ATOM	2887	N	VAL	D	356	55.792	-15.577	-26.725	1.00	33.25		N
ANISOU	2887	N	VAL	D	356	4744	4375	3512	-463	229	-1682	N
ATOM	2888	CA	VAL	D	356	54.908	-14.994	-25.724	1.00	31.29		C
ANISOU	2888	CA	VAL	D	356	4314	4199	3375	-555	127	-1554	C
ATOM	2889	CB	VAL	D	356	53.495	-14.774	-26.281	1.00	32.47		C
ANISOU	2889	CB	VAL	D	356	4410	4515	3413	-668	-69	-1643	C
ATOM	2890	CG1	VAL	D	356	52.532	-14.347	-25.167	1.00	31.15		C
ANISOU	2890	CG1	VAL	D	356	4036	4403	3395	-768	-146	-1532	C

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Figure 18 (continued)

ATOM	2891	CG2	VAL	D	356	53.522	-13.735	-27.416	1.00	32.66		C
ANISOU	2891	CG2	VAL	D	356	4479	4746	3184	-550	-115	-1624	C
ATOM	2892	C	VAL	D	356	54.883	-15.895	-24.485	1.00	30.33		C
ANISOU	2892	C	VAL	D	356	4157	3876	3491	-651	160	-1525	C
ATOM	2893	O	VAL	D	356	54.610	-17.084	-24.580	1.00	31.63		O
ANISOU	2893	O	VAL	D	356	4413	3886	3719	-754	142	-1666	O
ATOM	2894	N	HIS	D	357	55.229	-15.330	-23.330	1.00	27.89		N
ANISOU	2894	N	HIS	D	357	3738	3555	3304	-612	211	-1339	N
ATOM	2895	CA	HIS	D	357	55.108	-16.067	-22.055	1.00	27.09		C
ANISOU	2895	CA	HIS	D	357	3613	3286	3396	-703	233	-1277	C
ATOM	2896	CB	HIS	D	357	56.157	-15.624	-21.051	1.00	24.13		C
ANISOU	2896	CB	HIS	D	357	3198	2855	3116	-585	320	-1100	C
ATOM	2897	CG	HIS	D	357	57.530	-16.091	-21.397	1.00	23.18		C
ANISOU	2897	CG	HIS	D	357	3173	2605	3030	-441	426	-1120	C
ATOM	2898	ND1	HIS	D	357	58.182	-17.076	-20.684	1.00	23.15		N
ANISOU	2898	ND1	HIS	D	357	3234	2380	3180	-414	478	-1092	N
ATOM	2899	CE1	HIS	D	357	59.360	-17.313	-21.233	1.00	21.17		C
ANISOU	2899	CE1	HIS	D	357	3036	2061	2946	-261	573	-1129	C
ATOM	2900	NE2	HIS	D	357	59.496	-16.511	-22.275	1.00	25.10		N
ANISOU	2900	NE2	HIS	D	357	3515	2730	3291	-203	603	-1175	N
ATOM	2901	CD2	HIS	D	357	58.363	-15.742	-22.405	1.00	21.56		C
ANISOU	2901	CD2	HIS	D	357	3005	2457	2728	-310	501	-1165	C
ATOM	2902	C	HIS	D	357	53.706	-15.975	-21.470	1.00	27.09		C
ANISOU	2902	C	HIS	D	357	3488	3362	3441	-872	137	-1264	C
ATOM	2903	O	HIS	D	357	53.151	-14.887	-21.336	1.00	26.76		O
ANISOU	2903	O	HIS	D	357	3314	3507	3346	-858	85	-1189	O
ATOM	2904	N	GLU	D	358	53.130	-17.135	-21.179	1.00	28.20		N
ANISOU	2904	N	GLU	D	358	3673	3353	3691	-1033	123	-1343	N
ATOM	2905	CA	GLU	D	358	51.766	-17.230	-20.704	1.00	28.28		C
ANISOU	2905	CA	GLU	D	358	3553	3425	3768	-1223	54	-1351	C
ATOM	2906	CB	GLU	D	358	50.984	-18.208	-21.581	1.00	31.17		C
ANISOU	2906	CB	GLU	D	358	3968	3736	4138	-1389	-39	-1564	C
ATOM	2907	CG	GLU	D	358	50.973	-17.773	-23.047	1.00	32.95		C
ANISOU	2907	CG	GLU	D	358	4233	4120	4167	-1309	-143	-1709	C
ATOM	2908	CD	GLU	D	358	50.303	-18.740	-23.964	1.00	39.33		C
ANISOU	2908	CD	GLU	D	358	5118	4872	4954	-1465	-257	-1944	C
ATOM	2909	OE1	GLU	D	358	50.379	-19.974	-23.732	1.00	41.30		O
ANISOU	2909	OE1	GLU	D	358	5483	4874	5336	-1583	-213	-2029	O
ATOM	2910	OE2	GLU	D	358	49.688	-18.254	-24.939	1.00	42.18		O
ANISOU	2910	OE2	GLU	D	358	5432	5432	5161	-1467	-405	-2049	O
ATOM	2911	C	GLU	D	358	51.790	-17.669	-19.252	1.00	27.36		C
ANISOU	2911	C	GLU	D	358	3429	3163	3804	-1292	145	-1208	C
ATOM	2912	O	GLU	D	358	52.383	-18.677	-18.925	1.00	29.08		O
ANISOU	2912	O	GLU	D	358	3791	3148	4112	-1304	210	-1203	O
ATOM	2913	N	GLY	D	359	51.167	-16.892	-18.380	1.00	25.52		N
ANISOU	2913	N	GLY	D	359	3044	3064	3587	-1322	155	-1086	N
ATOM	2914	CA	GLY	D	359	51.052	-17.255	-16.979	1.00	24.48		C
ANISOU	2914	CA	GLY	D	359	2916	2823	3560	-1399	247	-946	C
ATOM	2915	C	GLY	D	359	51.467	-16.139	-16.057	1.00	22.50		C
ANISOU	2915	C	GLY	D	359	2608	2681	3262	-1265	290	-781	C
ATOM	2916	O	GLY	D	359	52.317	-15.309	-16.401	1.00	21.03		O
ANISOU	2916	O	GLY	D	359	2431	2564	2997	-1090	271	-754	O
ATOM	2917	N	TYR	D	360	50.879	-16.137	-14.865	1.00	22.56		N
ANISOU	2917	N	TYR	D	360	2564	2692	3315	-1355	359	-674	N
ATOM	2918	CA	TYR	D	360	51.277	-15.220	-13.807	1.00	20.82		C
ANISOU	2918	CA	TYR	D	360	2328	2542	3042	-1243	405	-527	C
ATOM	2919	CB	TYR	D	360	50.251	-15.243	-12.659	1.00	21.78		C
ANISOU	2919	CB	TYR	D	360	2374	2709	3191	-1377	496	-447	C
ATOM	2920	CG	TYR	D	360	50.774	-14.552	-11.417	1.00	21.58		C
ANISOU	2920	CG	TYR	D	360	2399	2706	3092	-1269	551	-301	C
ATOM	2921	CD1	TYR	D	360	50.769	-13.146	-11.321	1.00	18.96		C
ANISOU	2921	CD1	TYR	D	360	1967	2554	2682	-1140	525	-292	C
ATOM	2922	CE1	TYR	D	360	51.265	-12.515	-10.199	1.00	20.05		C
ANISOU	2922	CE1	TYR	D	360	2168	2704	2746	-1049	560	-185	C
ATOM	2923	CZ	TYR	D	360	51.801	-13.280	-9.164	1.00	20.65		C
ANISOU	2923	CZ	TYR	D	360	2411	2630	2805	-1074	608	-71	C
ATOM	2924	OH	TYR	D	360	52.295	-12.687	-8.034	1.00	19.63		O
ANISOU	2924	OH	TYR	D	360	2362	2519	2577	-986	619	26	O
ATOM	2925	CE2	TYR	D	360	51.829	-14.661	-9.238	1.00	22.70		C
ANISOU	2925	CE2	TYR	D	360	2775	2709	3141	-1186	635	-54	C
ATOM	2926	CD2	TYR	D	360	51.320	-15.292	-10.365	1.00	21.83		C

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Figure 18 (continued)

ANISOU	2926	CD2	TYR	D	360	2601	2570	3125	-1287	613	-175	C
ATOM	2927	C	TYR	D	360	52.662	-15.527	-13.249	1.00	19.75		C
ANISOU	2927	C	TYR	D	360	2358	2241	2906	-1119	426	-426	C
ATOM	2928	O	TYR	D	360	52.983	-16.691	-12.914	1.00	20.71		O
ANISOU	2928	O	TYR	D	360	2617	2153	3097	-1174	460	-393	O
ATOM	2929	N	GLU	D	361	53.461	-14.477	-13.117	1.00	17.95		N
ANISOU	2929	N	GLU	D	361	2109	2098	2614	-955	398	-371	N
ATOM	2930	CA	GLU	D	361	54.818	-14.564	-12.568	1.00	18.25		C
ANISOU	2930	CA	GLU	D	361	2255	2018	2660	-823	391	-276	C
ATOM	2931	CB	GLU	D	361	55.857	-14.727	-13.665	1.00	17.09		C
ANISOU	2931	CB	GLU	D	361	2139	1814	2541	-707	361	-349	C
ATOM	2932	CG	GLU	D	361	55.906	-16.074	-14.343	1.00	20.73		C
ANISOU	2932	CG	GLU	D	361	2703	2101	3074	-760	379	-440	C
ATOM	2933	CD	GLU	D	361	56.874	-16.096	-15.496	1.00	21.89		C
ANISOU	2933	CD	GLU	D	361	2870	2225	3221	-630	377	-530	C
ATOM	2934	OE1	GLU	D	361	56.789	-15.177	-16.334	1.00	21.96		O
ANISOU	2934	OE1	GLU	D	361	2796	2400	3148	-588	360	-586	O
ATOM	2935	OE2	GLU	D	361	57.713	-17.035	-15.572	1.00	26.64		O
ANISOU	2935	OE2	GLU	D	361	3576	2639	3905	-563	403	-540	O
ATOM	2936	C	GLU	D	361	55.166	-13.305	-11.787	1.00	17.71		C
ANISOU	2936	C	GLU	D	361	2137	2068	2522	-724	371	-189	C
ATOM	2937	O	GLU	D	361	54.783	-12.180	-12.189	1.00	17.20		O
ANISOU	2937	O	GLU	D	361	1959	2166	2408	-690	352	-229	O
ATOM	2938	N	GLU	D	362	55.904	-13.489	-10.694	1.00	18.09		N
ANISOU	2938	N	GLU	D	362	2281	2027	2567	-671	363	-75	N
ATOM	2939	CA	GLU	D	362	56.464	-12.367	-9.950	1.00	19.15		C
ANISOU	2939	CA	GLU	D	362	2393	2245	2638	-572	319	-10	C
ATOM	2940	CB	GLU	D	362	55.949	-12.359	-8.507	1.00	19.27		C
ANISOU	2940	CB	GLU	D	362	2482	2271	2569	-627	354	85	C
ATOM	2941	CG	GLU	D	362	56.310	-11.107	-7.717	1.00	21.42		C
ANISOU	2941	CG	GLU	D	362	2741	2644	2753	-541	306	118	C
ATOM	2942	CD	GLU	D	362	55.912	-11.248	-6.250	1.00	24.81		C
ANISOU	2942	CD	GLU	D	362	3289	3073	3065	-584	348	211	C
ATOM	2943	OE1	GLU	D	362	54.919	-10.639	-5.837	1.00	34.00		O
ANISOU	2943	OE1	GLU	D	362	4411	4356	4153	-632	428	187	O
ATOM	2944	OE2	GLU	D	362	56.557	-12.014	-5.516	1.00	32.91		O
ANISOU	2944	OE2	GLU	D	362	4457	3979	4069	-565	309	311	O
ATOM	2945	C	GLU	D	362	57.976	-12.433	-9.968	1.00	17.74		C
ANISOU	2945	C	GLU	D	362	2250	1975	2515	-438	247	30	C
ATOM	2946	O	GLU	D	362	58.543	-13.501	-9.839	1.00	19.01		O
ANISOU	2946	O	GLU	D	362	2502	1982	2740	-416	238	69	O
ATOM	2947	N	PHE	D	363	58.617	-11.277	-10.154	1.00	17.84		N
ANISOU	2947	N	PHE	D	363	2179	2078	2521	-348	198	20	N
ATOM	2948	CA	PHE	D	363	60.073	-11.175	-10.225	1.00	17.84		C
ANISOU	2948	CA	PHE	D	363	2159	2019	2600	-229	133	50	C
ATOM	2949	CB	PHE	D	363	60.525	-10.817	-11.655	1.00	17.34		C
ANISOU	2949	CB	PHE	D	363	1999	1994	2594	-179	169	-29	C
ATOM	2950	CG	PHE	D	363	60.204	-11.851	-12.684	1.00	18.26		C
ANISOU	2950	CG	PHE	D	363	2152	2047	2738	-208	236	-108	C
ATOM	2951	CD1	PHE	D	363	61.094	-12.897	-12.951	1.00	19.62		C
ANISOU	2951	CD1	PHE	D	363	2369	2076	3010	-138	249	-114	C
ATOM	2952	CE1	PHE	D	363	60.784	-13.856	-13.898	1.00	20.76		C
ANISOU	2952	CE1	PHE	D	363	2571	2145	3172	-165	312	-211	C
ATOM	2953	CZ	PHE	D	363	59.597	-13.776	-14.610	1.00	18.79		C
ANISOU	2953	CZ	PHE	D	363	2323	1978	2839	-274	341	-302	C
ATOM	2954	CE2	PHE	D	363	58.711	-12.738	-14.363	1.00	20.21		C
ANISOU	2954	CE2	PHE	D	363	2433	2315	2932	-338	317	-284	C
ATOM	2955	CD2	PHE	D	363	59.020	-11.769	-13.412	1.00	17.87		C
ANISOU	2955	CD2	PHE	D	363	2089	2080	2620	-298	276	-189	C
ATOM	2956	C	PHE	D	363	60.584	-10.065	-9.329	1.00	17.94		C
ANISOU	2956	C	PHE	D	363	2144	2096	2575	-182	50	99	C
ATOM	2957	O	PHE	D	363	59.915	-9.014	-9.174	1.00	17.61		O
ANISOU	2957	O	PHE	D	363	2069	2165	2459	-214	62	73	O
ATOM	2958	N	THR	D	364	61.774	-10.269	-8.775	1.00	17.84		N
ANISOU	2958	N	THR	D	364	2142	2012	2625	-100	-43	160	N
ATOM	2959	CA	THR	D	364	62.589	-9.144	-8.386	1.00	18.22		C
ANISOU	2959	CA	THR	D	364	2116	2116	2692	-50	-138	169	C
ATOM	2960	CB	THR	D	364	63.421	-9.390	-7.113	1.00	18.94		C
ANISOU	2960	CB	THR	D	364	2269	2152	2775	5	-284	251	C
ATOM	2961	OG1	THR	D	364	64.333	-10.460	-7.344	1.00	22.11		O
ANISOU	2961	OG1	THR	D	364	2655	2441	3304	89	-317	293	O

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Figure 18 (continued)

ATOM	2962	CG2	THR	D	364	62.554	-9.703	-5.942	1.00	18.12		C
ANISOU	2962	CG2	THR	D	364	2332	2049	2504	-49	-289	306	C
ATOM	2963	C	THR	D	364	63.528	-8.805	-9.555	1.00	18.43		C
ANISOU	2963	C	THR	D	364	1999	2147	2858	8	-112	128	C
ATOM	2964	O	THR	D	364	63.977	-9.703	-10.275	1.00	19.45		O
ANISOU	2964	O	THR	D	364	2108	2205	3076	54	-61	116	O
ATOM	2965	N	MSE	D	365	63.759	-7.504	-9.770	1.00	17.63		N
ANISOU	2965	N	MSE	D	365	1808	2119	2769	0	-126	104	N
ATOM	2966	CA	MSE	D	365	64.730	-7.023	-10.747	1.00	18.41		C
ANISOU	2966	CA	MSE	D	365	1769	2226	2998	40	-88	87	C
ATOM	2967	CB	MSE	D	365	64.077	-6.068	-11.759	1.00	17.25		C
ANISOU	2967	CB	MSE	D	365	1596	2157	2801	0	10	46	C
ATOM	2968	CG	MSE	D	365	62.868	-6.645	-12.487	1.00	16.17		C
ANISOU	2968	CG	MSE	D	365	1532	2052	2561	-32	102	1	C
ATOM	2969	SE	MSE	D	365	61.845	-5.313	-13.450	0.90	20.72		SE
ANISOU	2969	SE	MSE	D	365	2093	2738	3041	-63	163	-30	SE
ATOM	2970	CE	MSE	D	365	63.243	-4.311	-14.263	1.00	11.76		C
ANISOU	2970	CE	MSE	D	365	852	1592	2023	-26	207	8	C
ATOM	2971	C	MSE	D	365	65.810	-6.262	-9.991	1.00	17.87		C
ANISOU	2971	C	MSE	D	365	1615	2153	3021	59	-218	116	C
ATOM	2972	O	MSE	D	365	65.495	-5.340	-9.241	1.00	17.57		O
ANISOU	2972	O	MSE	D	365	1614	2147	2913	15	-292	109	O
ATOM	2973	N	VAL	D	366	67.068	-6.639	-10.196	1.00	18.01		N
ANISOU	2973	N	VAL	D	366	1510	2130	3203	125	-245	137	N
ATOM	2974	CA	VAL	D	366	68.202	-5.950	-9.570	1.00	18.86		C
ANISOU	2974	CA	VAL	D	366	1492	2239	3436	133	-384	156	C
ATOM	2975	CB	VAL	D	366	68.942	-6.864	-8.537	1.00	20.54		C
ANISOU	2975	CB	VAL	D	366	1707	2397	3701	214	-553	207	C
ATOM	2976	CG1	VAL	D	366	70.186	-6.172	-7.928	1.00	20.97		C
ANISOU	2976	CG1	VAL	D	366	1598	2466	3905	220	-731	215	C
ATOM	2977	CG2	VAL	D	366	67.976	-7.296	-7.406	1.00	21.86		C
ANISOU	2977	CG2	VAL	D	366	2095	2550	3660	195	-633	237	C
ATOM	2978	C	VAL	D	366	69.171	-5.358	-10.585	1.00	19.08		C
ANISOU	2978	C	VAL	D	366	1324	2284	3643	133	-294	147	C
ATOM	2979	O	VAL	D	366	69.843	-6.084	-11.309	1.00	19.34		O
ANISOU	2979	O	VAL	D	366	1258	2296	3796	205	-204	151	O
ATOM	2980	N	GLY	D	367	69.241	-4.027	-10.623	1.00	19.12		N
ANISOU	2980	N	GLY	D	367	1279	2316	3670	51	-305	134	N
ATOM	2981	CA	GLY	D	367	70.244	-3.316	-11.436	1.00	20.13		C
ANISOU	2981	CA	GLY	D	367	1215	2451	3984	23	-221	144	C
ATOM	2982	C	GLY	D	367	71.337	-2.617	-10.640	1.00	21.77		C
ANISOU	2982	C	GLY	D	367	1266	2642	4363	-22	-391	146	C
ATOM	2983	O	GLY	D	367	71.408	-2.757	-9.417	1.00	21.83		O
ANISOU	2983	O	GLY	D	367	1322	2639	4334	-13	-599	136	O
ATOM	2984	N	LYS	D	368	72.214	-1.887	-11.335	1.00	22.99		N
ANISOU	2984	N	LYS	D	368	1233	2797	4706	-78	-304	160	N
ATOM	2985	CA	LYS	D	368	73.258	-1.124	-10.655	1.00	25.77		C
ANISOU	2985	CA	LYS	D	368	1410	3130	5252	-153	-467	150	C
ATOM	2986	CB	LYS	D	368	74.267	-0.536	-11.644	1.00	27.60		C
ANISOU	2986	CB	LYS	D	368	1403	3363	5721	-218	-307	181	C
ATOM	2987	CG	LYS	D	368	75.163	-1.558	-12.320	1.00	33.38		C
ANISOU	2987	CG	LYS	D	368	1937	4132	6613	-110	-181	206	C
ATOM	2988	CD	LYS	D	368	76.116	-0.834	-13.239	1.00	40.97		C
ANISOU	2988	CD	LYS	D	368	2663	5104	7802	-196	4	241	C
ATOM	2989	CE	LYS	D	368	76.457	-1.646	-14.479	1.00	44.55		C
ANISOU	2989	CE	LYS	D	368	3032	5601	8293	-92	283	264	C
ATOM	2990	NZ	LYS	D	368	77.644	-1.037	-15.172	1.00	45.91		N
ANISOU	2990	NZ	LYS	D	368	2915	5795	8735	-172	454	304	N
ATOM	2991	C	LYS	D	368	72.654	0.026	-9.845	1.00	24.40		C
ANISOU	2991	C	LYS	D	368	1379	2920	4973	-257	-603	106	C
ATOM	2992	O	LYS	D	368	73.146	0.344	-8.779	1.00	25.32		O
ANISOU	2992	O	LYS	D	368	1457	3020	5142	-295	-829	68	O
ATOM	2993	N	ARG	D	369	71.581	0.624	-10.361	1.00	22.61		N
ANISOU	2993	N	ARG	D	369	1320	2680	4592	-289	-471	106	N
ATOM	2994	CA	ARG	D	369	71.084	1.898	-9.820	1.00	22.72		C
ANISOU	2994	CA	ARG	D	369	1450	2637	4547	-381	-553	61	C
ATOM	2995	CB	ARG	D	369	71.284	3.026	-10.839	1.00	23.23		C
ANISOU	2995	CB	ARG	D	369	1454	2643	4728	-474	-393	99	C
ATOM	2996	CG	ARG	D	369	72.739	3.461	-11.079	1.00	25.22		C
ANISOU	2996	CG	ARG	D	369	1448	2862	5272	-572	-395	123	C
ATOM	2997	CD	ARG	D	369	72.724	4.978	-11.254	1.00	27.02		C

Figure 18 (continued)

ANISOU	2997	CD	ARG	D	369	1710	2974	5581	-711	-368	125	C
ATOM	2998	NE	ARG	D	369	73.878	5.516	-10.578	1.00	30.88		N
ANISOU	2998	NE	ARG	D	369	2013	3410	6311	-834	-535	79	N
ATOM	2999	CZ	ARG	D	369	73.901	6.588	-9.811	1.00	32.41		C
ANISOU	2999	CZ	ARG	D	369	2268	3495	6550	-948	-695	3	C
ATOM	3000	NH1	ARG	D	369	72.814	7.329	-9.581	1.00	27.48		N
ANISOU	3000	NH1	ARG	D	369	1898	2792	5751	-941	-698	-36	N
ATOM	3001	NH2	ARG	D	369	75.066	6.923	-9.282	1.00	37.95		N
ANISOU	3001	NH2	ARG	D	369	2761	4164	7495	-1068	-857	-43	N
ATOM	3002	C	ARG	D	369	69.625	1.847	-9.399	1.00	21.13		C
ANISOU	3002	C	ARG	D	369	1494	2450	4083	-335	-554	28	C
ATOM	3003	O	ARG	D	369	69.083	2.830	-8.934	1.00	21.50		O
ANISOU	3003	O	ARG	D	369	1657	2450	4063	-381	-605	-21	O
ATOM	3004	N	ALA	D	370	68.982	0.695	-9.556	1.00	20.31		N
ANISOU	3004	N	ALA	D	370	1467	2407	3845	-245	-491	48	N
ATOM	3005	CA	ALA	D	370	67.568	0.560	-9.210	1.00	19.37		C
ANISOU	3005	CA	ALA	D	370	1545	2315	3499	-211	-469	22	C
ATOM	3006	CB	ALA	D	370	66.677	1.149	-10.287	1.00	17.08		C
ANISOU	3006	CB	ALA	D	370	1309	2033	3150	-214	-301	37	C
ATOM	3007	C	ALA	D	370	67.248	-0.884	-9.014	1.00	19.29		C
ANISOU	3007	C	ALA	D	370	1584	2348	3395	-138	-463	43	C
ATOM	3008	O	ALA	D	370	67.922	-1.742	-9.573	1.00	19.71		O
ANISOU	3008	O	ALA	D	370	1534	2404	3548	-97	-417	79	O
ATOM	3009	N	THR	D	371	66.236	-1.151	-8.200	1.00	19.16		N
ANISOU	3009	N	THR	D	371	1728	2356	3196	-124	-499	19	N
ATOM	3010	CA	THR	D	371	65.719	-2.493	-8.036	1.00	20.02		C
ANISOU	3010	CA	THR	D	371	1913	2488	3207	-77	-468	48	C
ATOM	3011	CB	THR	D	371	66.139	-3.157	-6.702	1.00	20.97		C
ANISOU	3011	CB	THR	D	371	2102	2591	3274	-49	-635	69	C
ATOM	3012	OG1	THR	D	371	65.494	-2.487	-5.624	1.00	23.31		O
ANISOU	3012	OG1	THR	D	371	2538	2908	3410	-79	-706	26	O
ATOM	3013	CG2	THR	D	371	67.641	-3.122	-6.488	1.00	21.86		C
ANISOU	3013	CG2	THR	D	371	2068	2673	3565	-30	-782	86	C
ATOM	3014	C	THR	D	371	64.184	-2.423	-8.121	1.00	19.54		C
ANISOU	3014	C	THR	D	371	1975	2472	2979	-89	-363	23	C
ATOM	3015	O	THR	D	371	63.586	-1.359	-8.003	1.00	19.86		O
ANISOU	3015	O	THR	D	371	2053	2526	2966	-111	-349	-18	O
ATOM	3016	N	ALA	D	372	63.528	-3.552	-8.324	1.00	19.12		N
ANISOU	3016	N	ALA	D	372	1973	2435	2858	-76	-288	43	N
ATOM	3017	CA	ALA	D	372	62.076	-3.489	-8.455	1.00	17.32		C
ANISOU	3017	CA	ALA	D	372	1816	2263	2502	-99	-191	15	C
ATOM	3018	CB	ALA	D	372	61.686	-3.097	-9.920	1.00	17.05		C
ANISOU	3018	CB	ALA	D	372	1709	2262	2508	-97	-82	-3	C
ATOM	3019	C	ALA	D	372	61.442	-4.786	-8.072	1.00	16.39		C
ANISOU	3019	C	ALA	D	372	1780	2143	2304	-114	-155	40	C
ATOM	3020	O	ALA	D	372	62.117	-5.809	-7.986	1.00	17.78		O
ANISOU	3020	O	ALA	D	372	1965	2259	2533	-92	-189	83	O
ATOM	3021	N	ILE	D	373	60.138	-4.749	-7.838	1.00	16.26		N
ANISOU	3021	N	ILE	D	373	1816	2184	2177	-149	-81	16	N
ATOM	3022	CA	ILE	D	373	59.332	-5.958	-7.815	1.00	14.85		C
ANISOU	3022	CA	ILE	D	373	1687	2003	1950	-195	-6	35	C
ATOM	3023	CB	ILE	D	373	58.647	-6.199	-6.451	1.00	17.21		C
ANISOU	3023	CB	ILE	D	373	2106	2321	2113	-231	8	63	C
ATOM	3024	CG1	ILE	D	373	59.646	-6.124	-5.278	1.00	14.71		C
ANISOU	3024	CG1	ILE	D	373	1885	1957	1748	-191	-121	110	C
ATOM	3025	CD1	ILE	D	373	58.992	-6.294	-3.900	1.00	16.18		C
ANISOU	3025	CD1	ILE	D	373	2225	2170	1751	-219	-97	142	C
ATOM	3026	CG2	ILE	D	373	57.892	-7.565	-6.465	1.00	14.20		C
ANISOU	3026	CG2	ILE	D	373	1774	1909	1713	-304	99	100	C
ATOM	3027	C	ILE	D	373	58.275	-5.853	-8.918	1.00	15.49		C
ANISOU	3027	C	ILE	D	373	1695	2153	2037	-225	90	-18	C
ATOM	3028	O	ILE	D	373	57.564	-4.846	-9.013	1.00	14.66		O
ANISOU	3028	O	ILE	D	373	1549	2123	1896	-214	114	-57	O
ATOM	3029	N	LEU	D	374	58.168	-6.910	-9.725	1.00	15.28		N
ANISOU	3029	N	LEU	D	374	1656	2094	2054	-255	132	-25	N
ATOM	3030	CA	LEU	D	374	57.294	-6.952	-10.890	1.00	14.84		C
ANISOU	3030	CA	LEU	D	374	1534	2103	2000	-285	188	-85	C
ATOM	3031	CB	LEU	D	374	58.116	-7.089	-12.188	1.00	13.81		C
ANISOU	3031	CB	LEU	D	374	1370	1943	1933	-240	188	-107	C
ATOM	3032	CG	LEU	D	374	57.391	-7.325	-13.533	1.00	16.12		C
ANISOU	3032	CG	LEU	D	374	1628	2295	2201	-265	224	-176	C

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Figure 18 (continued)

ATOM	3033	CD1	LEU	D	374	56.508	-6.147	-13.943	1.00	14.16		C
ANISOU	3033	CD1	LEU	D	374	1315	2168	1897	-246	213	-194	C
ATOM	3034	CD2	LEU	D	374	58.355	-7.620	-14.697	1.00	15.29		C
ANISOU	3034	CD2	LEU	D	374	1528	2150	2131	-214	248	-197	C
ATOM	3035	C	LEU	D	374	56.317	-8.127	-10.796	1.00	15.20		C
ANISOU	3035	C	LEU	D	374	1607	2138	2030	-383	243	-101	C
ATOM	3036	O	LEU	D	374	56.725	-9.266	-10.606	1.00	15.35		O
ANISOU	3036	O	LEU	D	374	1699	2048	2084	-411	248	-74	O
ATOM	3037	N	ARG	D	375	55.028	-7.827	-10.911	1.00	15.31		N
ANISOU	3037	N	ARG	D	375	1554	2256	2009	-434	284	-144	N
ATOM	3038	CA	ARG	D	375	54.040	-8.841	-11.218	1.00	16.30		C
ANISOU	3038	CA	ARG	D	375	1656	2386	2152	-547	331	-184	C
ATOM	3039	CB	ARG	D	375	52.876	-8.773	-10.272	1.00	17.01		C
ANISOU	3039	CB	ARG	D	375	1708	2548	2207	-621	404	-172	C
ATOM	3040	CG	ARG	D	375	53.151	-9.446	-8.924	1.00	16.88		C
ANISOU	3040	CG	ARG	D	375	1823	2439	2152	-666	454	-83	C
ATOM	3041	CD	ARG	D	375	52.036	-9.111	-7.966	1.00	17.47		C
ANISOU	3041	CD	ARG	D	375	1859	2613	2166	-719	557	-71	C
ATOM	3042	NE	ARG	D	375	52.301	-9.670	-6.649	1.00	20.64		N
ANISOU	3042	NE	ARG	D	375	2417	2937	2488	-755	610	28	N
ATOM	3043	CZ	ARG	D	375	51.689	-9.306	-5.525	1.00	21.86		C
ANISOU	3043	CZ	ARG	D	375	2602	3163	2540	-771	710	60	C
ATOM	3044	NH1	ARG	D	375	50.773	-8.327	-5.513	1.00	20.93		N
ANISOU	3044	NH1	ARG	D	375	2351	3193	2408	-742	774	-10	N
ATOM	3045	NH2	ARG	D	375	52.012	-9.927	-4.411	1.00	23.29		N
ANISOU	3045	NH2	ARG	D	375	2960	3266	2625	-803	749	164	N
ATOM	3046	C	ARG	D	375	53.565	-8.716	-12.664	1.00	17.05		C
ANISOU	3046	C	ARG	D	375	1663	2555	2260	-548	300	-271	C
ATOM	3047	O	ARG	D	375	53.246	-7.633	-13.155	1.00	16.83		O
ANISOU	3047	O	ARG	D	375	1557	2634	2204	-481	270	-291	O
ATOM	3048	N	LYS	D	376	53.476	-9.856	-13.325	1.00	18.24		N
ANISOU	3048	N	LYS	D	376	1844	2640	2446	-624	301	-323	N
ATOM	3049	CA	LYS	D	376	53.192	-9.905	-14.723	1.00	18.60		C
ANISOU	3049	CA	LYS	D	376	1849	2743	2477	-625	256	-416	C
ATOM	3050	CB	LYS	D	376	54.542	-10.061	-15.399	1.00	19.02		C
ANISOU	3050	CB	LYS	D	376	1990	2707	2528	-534	251	-415	C
ATOM	3051	CG	LYS	D	376	54.498	-10.388	-16.778	1.00	22.27		C
ANISOU	3051	CG	LYS	D	376	2419	3141	2901	-532	226	-511	C
ATOM	3052	CD	LYS	D	376	55.680	-11.228	-17.131	1.00	21.43		C
ANISOU	3052	CD	LYS	D	376	2420	2893	2831	-488	267	-529	C
ATOM	3053	CE	LYS	D	376	55.706	-11.320	-18.640	1.00	23.94		C
ANISOU	3053	CE	LYS	D	376	2773	3260	3065	-460	255	-635	C
ATOM	3054	NZ	LYS	D	376	54.576	-12.148	-19.074	1.00	23.78		N
ANISOU	3054	NZ	LYS	D	376	2758	3250	3028	-589	205	-754	N
ATOM	3055	C	LYS	D	376	52.271	-11.109	-14.980	1.00	20.06		C
ANISOU	3055	C	LYS	D	376	2022	2897	2704	-780	261	-496	C
ATOM	3056	O	LYS	D	376	52.290	-12.068	-14.216	1.00	21.47		O
ANISOU	3056	O	LYS	D	376	2269	2952	2938	-868	315	-463	O
ATOM	3057	N	ALA	D	377	51.449	-11.038	-16.025	1.00	20.56		N
ANISOU	3057	N	ALA	D	377	2002	3067	2743	-817	196	-596	N
ATOM	3058	CA	ALA	D	377	50.654	-12.164	-16.502	1.00	22.62		C
ANISOU	3058	CA	ALA	D	377	2249	3295	3051	-974	171	-703	C
ATOM	3059	CB	ALA	D	377	49.141	-12.016	-16.103	1.00	22.84		C
ANISOU	3059	CB	ALA	D	377	2091	3455	3132	-1095	166	-725	C
ATOM	3060	C	ALA	D	377	50.830	-12.200	-18.012	1.00	23.29		C
ANISOU	3060	C	ALA	D	377	2371	3421	3056	-931	81	-817	C
ATOM	3061	O	ALA	D	377	51.732	-11.531	-18.538	1.00	22.97		O
ANISOU	3061	O	ALA	D	377	2392	3399	2935	-785	78	-786	O
ATOM	3062	N	THR	D	378	49.995	-12.969	-18.713	1.00	24.81		N
ANISOU	3062	N	THR	D	378	2534	3628	3263	-1062	10	-949	N
ATOM	3063	CA	THR	D	378	50.084	-13.071	-20.188	1.00	25.87		C
ANISOU	3063	CA	THR	D	378	2732	3812	3286	-1028	-90	-1078	C
ATOM	3064	CB	THR	D	378	49.044	-14.046	-20.745	1.00	27.81		C
ANISOU	3064	CB	THR	D	378	2938	4058	3571	-1214	-185	-1242	C
ATOM	3065	OG1	THR	D	378	49.107	-15.264	-19.991	1.00	28.15		O
ANISOU	3065	OG1	THR	D	378	3047	3892	3755	-1360	-97	-1250	O
ATOM	3066	CG2	THR	D	378	49.290	-14.336	-22.254	1.00	28.26		C
ANISOU	3066	CG2	THR	D	378	3122	4136	3481	-1179	-287	-1397	C
ATOM	3067	C	THR	D	378	49.972	-11.709	-20.898	1.00	25.13		C
ANISOU	3067	C	THR	D	378	2574	3913	3059	-881	-169	-1044	C
ATOM	3068	O	THR	D	378	48.904	-11.120	-20.958	1.00	26.17		O

Figure 18 (continued)

ANISOU	3068	O	THR	D	378	2548	4203	3193	-898	-259	-1050	O
ATOM	3069	N	ARG	D	379	51.091	-11.219	-21.423	1.00	24.75		N
ANISOU	3069	N	ARG	D	379	2648	3846	2911	-733	-128	-998	N
ATOM	3070	CA	ARG	D	379	51.137	-9.937	-22.140	1.00	24.06		C
ANISOU	3070	CA	ARG	D	379	2543	3907	2692	-591	-183	-941	C
ATOM	3071	CB	ARG	D	379	50.530	-10.069	-23.546	1.00	25.58		C
ANISOU	3071	CB	ARG	D	379	2771	4219	2730	-599	-324	-1065	C
ATOM	3072	CG	ARG	D	379	51.184	-11.136	-24.401	1.00	26.56		C
ANISOU	3072	CG	ARG	D	379	3077	4242	2772	-629	-295	-1197	C
ATOM	3073	CD	ARG	D	379	50.803	-11.005	-25.880	1.00	28.25		C
ANISOU	3073	CD	ARG	D	379	3373	4594	2766	-594	-431	-1303	C
ATOM	3074	NE	ARG	D	379	51.357	-9.774	-26.432	1.00	26.17		N
ANISOU	3074	NE	ARG	D	379	3166	4426	2352	-423	-403	-1173	N
ATOM	3075	CZ	ARG	D	379	51.005	-9.218	-27.587	1.00	26.90		C
ANISOU	3075	CZ	ARG	D	379	3324	4670	2228	-349	-523	-1189	C
ATOM	3076	NH1	ARG	D	379	50.097	-9.774	-28.377	1.00	26.03		N
ANISOU	3076	NH1	ARG	D	379	3225	4654	2011	-425	-705	-1348	N
ATOM	3077	NH2	ARG	D	379	51.574	-8.084	-27.945	1.00	25.85		N
ANISOU	3077	NH2	ARG	D	379	3250	4588	1983	-203	-467	-1038	N
ATOM	3078	C	ARG	D	379	50.451	-8.817	-21.339	1.00	23.81		C
ANISOU	3078	C	ARG	D	379	2351	3979	2718	-548	-204	-834	C
ATOM	3079	O	ARG	D	379	49.654	-8.062	-21.877	1.00	24.12		O
ANISOU	3079	O	ARG	D	379	2303	4167	2693	-496	-315	-835	O
ATOM	3080	N	ARG	D	380	50.796	-8.719	-20.055	1.00	23.74		N
ANISOU	3080	N	ARG	D	380	2316	3884	2821	-555	-101	-746	N
ATOM	3081	CA	ARG	D	380	50.201	-7.776	-19.126	1.00	24.65		C
ANISOU	3081	CA	ARG	D	380	2301	4071	2994	-517	-90	-664	C
ATOM	3082	CB	ARG	D	380	48.866	-8.319	-18.591	1.00	25.94		C
ANISOU	3082	CB	ARG	D	380	2307	4296	3251	-653	-110	-725	C
ATOM	3083	CG	ARG	D	380	48.090	-7.378	-17.662	1.00	27.73		C
ANISOU	3083	CG	ARG	D	380	2381	4618	3538	-606	-79	-663	C
ATOM	3084	CD	ARG	D	380	46.845	-8.116	-17.110	1.00	32.70		C
ANISOU	3084	CD	ARG	D	380	2844	5302	4279	-768	-57	-724	C
ATOM	3085	NE	ARG	D	380	46.470	-7.643	-15.763	1.00	41.53		N
ANISOU	3085	NE	ARG	D	380	3880	6440	5461	-757	67	-655	N
ATOM	3086	CZ	ARG	D	380	45.818	-8.377	-14.862	1.00	44.62		C
ANISOU	3086	CZ	ARG	D	380	4194	6818	5941	-906	173	-660	C
ATOM	3087	NH1	ARG	D	380	45.450	-9.626	-15.147	1.00	47.78		N
ANISOU	3087	NH1	ARG	D	380	4579	7169	6405	-1093	162	-728	N
ATOM	3088	NH2	ARG	D	380	45.534	-7.858	-13.668	1.00	46.02		N
ANISOU	3088	NH2	ARG	D	380	4324	7025	6138	-874	301	-598	N
ATOM	3089	C	ARG	D	380	51.163	-7.516	-17.970	1.00	22.17		C
ANISOU	3089	C	ARG	D	380	2048	3640	2735	-477	23	-562	C
ATOM	3090	O	ARG	D	380	51.649	-8.448	-17.344	1.00	22.38		O
ANISOU	3090	O	ARG	D	380	2142	3543	2819	-550	89	-560	O
ATOM	3091	N	LEU	D	381	51.447	-6.242	-17.712	1.00	20.15		N
ANISOU	3091	N	LEU	D	381	1778	3415	2461	-357	30	-478	N
ATOM	3092	CA	LEU	D	381	52.122	-5.824	-16.482	1.00	18.33		C
ANISOU	3092	CA	LEU	D	381	1581	3101	2282	-326	104	-398	C
ATOM	3093	CB	LEU	D	381	52.866	-4.501	-16.698	1.00	16.65		C
ANISOU	3093	CB	LEU	D	381	1404	2880	2041	-197	98	-324	C
ATOM	3094	CG	LEU	D	381	53.665	-3.909	-15.562	1.00	16.21		C
ANISOU	3094	CG	LEU	D	381	1388	2738	2032	-163	142	-259	C
ATOM	3095	CD1	LEU	D	381	54.864	-3.126	-16.123	1.00	15.32		C
ANISOU	3095	CD1	LEU	D	381	1337	2566	1918	-87	146	-198	C
ATOM	3096	CD2	LEU	D	381	52.771	-3.029	-14.664	1.00	13.19		C
ANISOU	3096	CD2	LEU	D	381	938	2411	1663	-126	146	-254	C
ATOM	3097	C	LEU	D	381	51.003	-5.675	-15.465	1.00	18.54		C
ANISOU	3097	C	LEU	D	381	1498	3193	2353	-368	130	-404	C
ATOM	3098	O	LEU	D	381	50.041	-4.942	-15.713	1.00	18.05		O
ANISOU	3098	O	LEU	D	381	1322	3249	2289	-319	87	-421	O
ATOM	3099	N	VAL	D	382	51.092	-6.417	-14.358	1.00	18.79		N
ANISOU	3099	N	VAL	D	382	1564	3152	2425	-454	205	-387	N
ATOM	3100	CA	VAL	D	382	50.030	-6.373	-13.333	1.00	19.66		C
ANISOU	3100	CA	VAL	D	382	1578	3326	2564	-508	270	-388	C
ATOM	3101	CB	VAL	D	382	49.864	-7.734	-12.561	1.00	20.30		C
ANISOU	3101	CB	VAL	D	382	1704	3327	2682	-664	351	-380	C
ATOM	3102	CG1	VAL	D	382	48.932	-7.592	-11.345	1.00	21.28		C
ANISOU	3102	CG1	VAL	D	382	1755	3516	2814	-713	462	-358	C
ATOM	3103	CG2	VAL	D	382	49.384	-8.852	-13.492	1.00	18.12		C
ANISOU	3103	CG2	VAL	D	382	1390	3040	2452	-790	311	-458	C

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Figure 18 (continued)

ATOM	3104	C	VAL	D	382	50.355	-5.218	-12.398	1.00	20.00	
ANISOU	3104	C	VAL	D	382	1654	3367	2580	-399	305	-336
ATOM	3105	O	VAL	D	382	49.503	-4.363	-12.132	1.00	20.34	
ANISOU	3105	O	VAL	D	382	1594	3506	2628	-338	324	-353
ATOM	3106	N	GLN	D	383	51.602	-5.188	-11.930	1.00	20.10	
ANISOU	3106	N	GLN	D	383	1804	3265	2570	-368	305	-282
ATOM	3107	CA	GLN	D	383	52.076	-4.128	-11.044	1.00	20.46	
ANISOU	3107	CA	GLN	D	383	1903	3285	2586	-280	314	-249
ATOM	3108	CB	GLN	D	383	51.440	-4.281	-9.645	1.00	22.14	
ANISOU	3108	CB	GLN	D	383	2130	3523	2758	-323	407	-245
ATOM	3109	CG	GLN	D	383	51.782	-3.166	-8.701	1.00	27.86	
ANISOU	3109	CG	GLN	D	383	2924	4230	3430	-231	413	-242
ATOM	3110	CD	GLN	D	383	50.784	-2.962	-7.567	1.00	35.94	
ANISOU	3110	CD	GLN	D	383	3931	5330	4396	-236	530	-267
ATOM	3111	OE1	GLN	D	383	50.146	-3.921	-7.057	1.00	37.23	
ANISOU	3111	OE1	GLN	D	383	4080	5526	4539	-341	628	-250
ATOM	3112	NE2	GLN	D	383	50.628	-1.688	-7.167	1.00	36.75	
ANISOU	3112	NE2	GLN	D	383	4039	5450	4475	-122	537	-310
ATOM	3113	C	GLN	D	383	53.600	-4.104	-10.977	1.00	18.47	
ANISOU	3113	C	GLN	D	383	1765	2914	2337	-249	266	-202
ATOM	3114	O	GLN	D	383	54.256	-5.122	-11.078	1.00	18.25	
ANISOU	3114	O	GLN	D	383	1793	2812	2329	-299	259	-182
ATOM	3115	N	LEU	D	384	54.153	-2.908	-10.828	1.00	18.23	
ANISOU	3115	N	LEU	D	384	1759	2860	2309	-163	230	-190
ATOM	3116	CA	LEU	D	384	55.575	-2.690	-10.666	1.00	16.87	
ANISOU	3116	CA	LEU	D	384	1658	2587	2165	-139	179	-151
ATOM	3117	CB	LEU	D	384	56.164	-2.192	-11.983	1.00	16.08	
ANISOU	3117	CB	LEU	D	384	1525	2473	2113	-96	154	-135
ATOM	3118	CG	LEU	D	384	57.662	-1.872	-12.075	1.00	16.83	
ANISOU	3118	CG	LEU	D	384	1646	2475	2275	-79	119	-94
ATOM	3119	CD1	LEU	D	384	58.510	-3.146	-12.068	1.00	11.98	
ANISOU	3119	CD1	LEU	D	384	1046	1808	1697	-114	119	-78
ATOM	3120	CD2	LEU	D	384	57.896	-1.065	-13.332	1.00	12.84	
ANISOU	3120	CD2	LEU	D	384	1111	1973	1792	-36	133	-69
ATOM	3121	C	LEU	D	384	55.832	-1.650	-9.567	1.00	17.39	
ANISOU	3121	C	LEU	D	384	1779	2622	2207	-96	154	-158
ATOM	3122	O	LEU	D	384	55.240	-0.552	-9.591	1.00	18.03	
ANISOU	3122	O	LEU	D	384	1836	2732	2282	-36	164	-189
ATOM	3123	N	ILE	D	385	56.704	-1.988	-8.617	1.00	16.14	
ANISOU	3123	N	ILE	D	385	1702	2399	2032	-119	109	-136
ATOM	3124	CA	ILE	D	385	57.217	-1.037	-7.649	1.00	16.77	
ANISOU	3124	CA	ILE	D	385	1850	2434	2086	-88	49	-157
ATOM	3125	CB	ILE	D	385	56.942	-1.448	-6.168	1.00	17.93	
ANISOU	3125	CB	ILE	D	385	2109	2597	2105	-110	57	-164
ATOM	3126	CG1	ILE	D	385	55.479	-1.806	-6.000	1.00	19.43	
ANISOU	3126	CG1	ILE	D	385	2275	2882	2226	-129	188	-183
ATOM	3127	CD1	ILE	D	385	55.134	-2.472	-4.673	1.00	20.09	
ANISOU	3127	CD1	ILE	D	385	2475	2988	2170	-170	242	-163
ATOM	3128	CG2	ILE	D	385	57.252	-0.256	-5.217	1.00	17.45	
ANISOU	3128	CG2	ILE	D	385	2135	2503	1991	-68	-6	-224
ATOM	3129	C	ILE	D	385	58.712	-0.916	-7.838	1.00	16.33	
ANISOU	3129	C	ILE	D	385	1790	2292	2123	-90	-48	-125
ATOM	3130	O	ILE	D	385	59.401	-1.917	-7.778	1.00	15.60	
ANISOU	3130	O	ILE	D	385	1701	2171	2056	-114	-80	-82
ATOM	3131	N	VAL	D	386	59.193	0.302	-8.082	1.00	16.79	
ANISOU	3131	N	VAL	D	386	1830	2302	2249	-66	-89	-145
ATOM	3132	CA	VAL	D	386	60.628	0.573	-8.316	1.00	16.53	
ANISOU	3132	CA	VAL	D	386	1754	2189	2338	-85	-170	-117
ATOM	3133	CB	VAL	D	386	60.864	1.322	-9.646	1.00	16.12	
ANISOU	3133	CB	VAL	D	386	1628	2110	2389	-76	-119	-88
ATOM	3134	CG1	VAL	D	386	62.343	1.365	-9.984	1.00	15.54	
ANISOU	3134	CG1	VAL	D	386	1475	1971	2459	-111	-161	-48
ATOM	3135	CG2	VAL	D	386	60.077	0.665	-10.776	1.00	15.17	
ANISOU	3135	CG2	VAL	D	386	1471	2064	2228	-55	-21	-62
ATOM	3136	C	VAL	D	386	61.267	1.429	-7.207	1.00	18.00	
ANISOU	3136	C	VAL	D	386	2001	2310	2527	-99	-288	-165
ATOM	3137	O	VAL	D	386	60.688	2.436	-6.757	1.00	17.63	
ANISOU	3137	O	VAL	D	386	2022	2246	2432	-78	-286	-229
ATOM	3138	N	SER	D	387	62.475	1.024	-6.818	1.00	17.98	
ANISOU	3138	N	SER	D	387	1968	2271	2593	-128	-398	-143
ATOM	3139	CA	SER	D	387	63.295	1.740	-5.874	1.00	19.91	

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Figure 18 (continued)

ANISOU	3139	CA	SER	D	387	2246	2456	2863	-157	-549	-194	C
ATOM	3140	CB	SER	D	387	63.525	0.862	-4.642	1.00	20.75		C
ANISOU	3140	CB	SER	D	387	2441	2593	2848	-148	-662	-190	C
ATOM	3141	OG	SER	D	387	64.138	1.637	-3.629	1.00	26.41		O
ANISOU	3141	OG	SER	D	387	3222	3268	3545	-174	-828	-263	O
ATOM	3142	C	SER	D	387	64.614	2.081	-6.601	1.00	19.75		C
ANISOU	3142	C	SER	D	387	2073	2372	3058	-200	-595	-160	C
ATOM	3143	O	SER	D	387	65.205	1.226	-7.243	1.00	19.61		O
ANISOU	3143	O	SER	D	387	1949	2374	3129	-192	-563	-95	O
ATOM	3144	N	GLY	D	388	65.045	3.336	-6.558	1.00	20.44		N
ANISOU	3144	N	GLY	D	388	2147	2377	3242	-249	-648	-207	N
ATOM	3145	CA	GLY	D	388	66.169	3.760	-7.373	1.00	20.71		C
ANISOU	3145	CA	GLY	D	388	2024	2350	3495	-310	-644	-164	C
ATOM	3146	C	GLY	D	388	66.910	4.945	-6.819	1.00	22.28		C
ANISOU	3146	C	GLY	D	388	2212	2442	3810	-396	-776	-233	C
ATOM	3147	O	GLY	D	388	66.412	5.643	-5.960	1.00	22.74		O
ANISOU	3147	O	GLY	D	388	2413	2458	3769	-398	-850	-326	O
ATOM	3148	N	LYS	D	389	68.118	5.162	-7.318	1.00	23.01		N
ANISOU	3148	N	LYS	D	389	2130	2489	4124	-474	-798	-195	N
ATOM	3149	CA	LYS	D	389	68.973	6.226	-6.823	1.00	25.51		C
ANISOU	3149	CA	LYS	D	389	2401	2696	4597	-588	-939	-262	C
ATOM	3150	CB	LYS	D	389	70.436	5.931	-7.166	1.00	27.03		C
ANISOU	3150	CB	LYS	D	389	2339	2893	5036	-662	-988	-213	C
ATOM	3151	CG	LYS	D	389	71.016	4.768	-6.405	1.00	29.16		C
ANISOU	3151	CG	LYS	D	389	2536	3261	5282	-606	-1149	-218	C
ATOM	3152	CD	LYS	D	389	72.475	4.525	-6.778	1.00	33.37		C
ANISOU	3152	CD	LYS	D	389	2779	3803	6095	-662	-1193	-174	C
ATOM	3153	CE	LYS	D	389	73.170	3.650	-5.740	1.00	38.88		C
ANISOU	3153	CE	LYS	D	389	3409	4571	6792	-609	-1439	-199	C
ATOM	3154	NZ	LYS	D	389	74.315	2.871	-6.313	1.00	42.89		N
ANISOU	3154	NZ	LYS	D	389	3629	5130	7536	-578	-1414	-125	N
ATOM	3155	C	LYS	D	389	68.574	7.622	-7.336	1.00	25.27		C
ANISOU	3155	C	LYS	D	389	2446	2528	4627	-643	-846	-275	C
ATOM	3156	O	LYS	D	389	68.815	8.616	-6.671	1.00	27.52		O
ANISOU	3156	O	LYS	D	389	2792	2696	4970	-722	-969	-371	O
ATOM	3157	N	ASP	D	390	67.957	7.673	-8.502	1.00	23.52		N
ANISOU	3157	N	ASP	D	390	2238	2314	4385	-594	-643	-180	N
ATOM	3158	CA	ASP	D	390	67.627	8.899	-9.203	1.00	24.41		C
ANISOU	3158	CA	ASP	D	390	2418	2292	4565	-626	-538	-147	C
ATOM	3159	CB	ASP	D	390	68.851	9.494	-9.933	1.00	25.90		C
ANISOU	3159	CB	ASP	D	390	2446	2380	5014	-767	-487	-72	C
ATOM	3160	CG	ASP	D	390	69.523	8.504	-10.892	1.00	26.86		C
ANISOU	3160	CG	ASP	D	390	2382	2621	5204	-760	-358	41	C
ATOM	3161	OD1	ASP	D	390	69.057	8.339	-12.046	1.00	26.07		O
ANISOU	3161	OD1	ASP	D	390	2311	2561	5035	-701	-169	145	O
ATOM	3162	OD2	ASP	D	390	70.541	7.906	-10.494	1.00	27.91		O
ANISOU	3162	OD2	ASP	D	390	2341	2805	5458	-807	-451	19	O
ATOM	3163	C	ASP	D	390	66.538	8.541	-10.190	1.00	23.04		C
ANISOU	3163	C	ASP	D	390	2310	2197	4248	-508	-363	-61	C
ATOM	3164	O	ASP	D	390	66.326	7.369	-10.478	1.00	20.52		O
ANISOU	3164	O	ASP	D	390	1944	2019	3834	-443	-313	-25	O
ATOM	3165	N	GLU	D	391	65.854	9.559	-10.695	1.00	24.31		N
ANISOU	3165	N	GLU	D	391	2582	2254	4399	-480	-285	-32	N
ATOM	3166	CA	GLU	D	391	64.698	9.375	-11.545	1.00	25.09		C
ANISOU	3166	CA	GLU	D	391	2753	2426	4353	-357	-161	37	C
ATOM	3167	CB	GLU	D	391	63.893	10.685	-11.645	1.00	25.59		C
ANISOU	3167	CB	GLU	D	391	2964	2345	4414	-303	-142	33	C
ATOM	3168	CG	GLU	D	391	63.654	11.247	-13.044	1.00	29.26		C
ANISOU	3168	CG	GLU	D	391	3463	2757	4898	-269	-8	185	C
ATOM	3169	CD	GLU	D	391	63.469	12.790	-13.016	1.00	31.73		C
ANISOU	3169	CD	GLU	D	391	3910	2836	5312	-270	-16	194	C
ATOM	3170	OE1	GLU	D	391	63.085	13.318	-11.941	1.00	37.16		O
ANISOU	3170	OE1	GLU	D	391	4684	3437	5996	-243	-114	56	O
ATOM	3171	OE2	GLU	D	391	63.683	13.469	-14.057	1.00	34.98		O
ANISOU	3171	OE2	GLU	D	391	4359	3140	5793	-292	83	339	O
ATOM	3172	C	GLU	D	391	65.058	8.781	-12.903	1.00	24.24		C
ANISOU	3172	C	GLU	D	391	2553	2399	4260	-360	-18	171	C
ATOM	3173	O	GLU	D	391	64.273	8.010	-13.468	1.00	22.69		O
ANISOU	3173	O	GLU	D	391	2374	2332	3915	-266	47	200	O
ATOM	3174	N	GLN	D	392	66.247	9.114	-13.408	1.00	24.93		N
ANISOU	3174	N	GLN	D	392	2538	2412	4524	-473	36	242	N

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Figure 18 (continued)

ATOM	3175	CA	GLN	D	392	66.743	8.484	-14.629	1.00	25.44		C
ANISOU	3175	CA	GLN	D	392	2508	2561	4595	-478	192	356	C
ATOM	3176	CB	GLN	D	392	68.044	9.130	-15.089	1.00	27.83		C
ANISOU	3176	CB	GLN	D	392	2695	2758	5122	-620	273	435	C
ATOM	3177	CG	GLN	D	392	68.528	8.613	-16.433	1.00	30.48		C
ANISOU	3177	CG	GLN	D	392	2956	3178	5449	-617	479	558	C
ATOM	3178	CD	GLN	D	392	69.873	9.190	-16.862	1.00	32.38		C
ANISOU	3178	CD	GLN	D	392	3046	3328	5929	-770	593	641	C
ATOM	3179	OE1	GLN	D	392	70.866	9.160	-16.120	1.00	34.05		O
ANISOU	3179	OE1	GLN	D	392	3083	3509	6346	-874	503	579	O
ATOM	3180	NE2	GLN	D	392	69.915	9.682	-18.098	1.00	36.39		N
ANISOU	3180	NE2	GLN	D	392	3617	3803	6407	-787	796	790	N
ATOM	3181	C	GLN	D	392	66.861	6.952	-14.515	1.00	23.36		C
ANISOU	3181	C	GLN	D	392	2153	2465	4257	-425	183	315	C
ATOM	3182	O	GLN	D	392	66.428	6.241	-15.420	1.00	22.71		O
ANISOU	3182	O	GLN	D	392	2091	2487	4051	-353	291	361	O
ATOM	3183	N	SER	D	393	67.396	6.449	-13.399	1.00	22.65		N
ANISOU	3183	N	SER	D	393	1984	2391	4230	-455	43	226	N
ATOM	3184	CA	SER	D	393	67.491	5.002	-13.124	1.00	21.47		C
ANISOU	3184	CA	SER	D	393	1772	2367	4020	-396	13	192	C
ATOM	3185	CB	SER	D	393	68.327	4.756	-11.883	1.00	21.62		C
ANISOU	3185	CB	SER	D	393	1702	2368	4143	-443	-165	121	C
ATOM	3186	OG	SER	D	393	69.540	5.423	-12.049	1.00	27.86		O
ANISOU	3186	OG	SER	D	393	2342	3083	5162	-552	-165	148	O
ATOM	3187	C	SER	D	393	66.148	4.332	-12.909	1.00	19.41		C
ANISOU	3187	C	SER	D	393	1642	2192	3542	-296	-2	151	C
ATOM	3188	O	SER	D	393	65.985	3.151	-13.253	1.00	18.62		O
ANISOU	3188	O	SER	D	393	1522	2183	3368	-242	46	156	O
ATOM	3189	N	ILE	D	394	65.218	5.075	-12.314	1.00	18.26		N
ANISOU	3189	N	ILE	D	394	1621	2007	3310	-275	-63	103	N
ATOM	3190	CA	ILE	D	394	63.857	4.613	-12.104	1.00	17.01		C
ANISOU	3190	CA	ILE	D	394	1563	1931	2968	-189	-60	64	C
ATOM	3191	CB	ILE	D	394	63.049	5.528	-11.111	1.00	17.01		C
ANISOU	3191	CB	ILE	D	394	1678	1876	2909	-165	-137	-15	C
ATOM	3192	CG1	ILE	D	394	63.665	5.443	-9.702	1.00	17.08		C
ANISOU	3192	CG1	ILE	D	394	1698	1854	2938	-213	-281	-98	C
ATOM	3193	CD1	ILE	D	394	63.245	6.554	-8.715	1.00	19.53		C
ANISOU	3193	CD1	ILE	D	394	2130	2075	3217	-209	-359	-197	C
ATOM	3194	CG2	ILE	D	394	61.591	5.140	-11.069	1.00	15.94		C
ANISOU	3194	CG2	ILE	D	394	1608	1838	2612	-76	-97	-43	C
ATOM	3195	C	ILE	D	394	63.185	4.408	-13.442	1.00	16.42		C
ANISOU	3195	C	ILE	D	394	1505	1922	2813	-134	66	130	C
ATOM	3196	O	ILE	D	394	62.597	3.330	-13.682	1.00	17.30		O
ANISOU	3196	O	ILE	D	394	1618	2138	2819	-93	94	116	O
ATOM	3197	N	ALA	D	395	63.298	5.400	-14.315	1.00	16.91		N
ANISOU	3197	N	ALA	D	395	1588	1917	2920	-141	135	204	N
ATOM	3198	CA	ALA	D	395	62.780	5.347	-15.687	1.00	17.37		C
ANISOU	3198	CA	ALA	D	395	1681	2033	2883	-86	242	282	C
ATOM	3199	CB	ALA	D	395	63.094	6.656	-16.431	1.00	18.96		C
ANISOU	3199	CB	ALA	D	395	1932	2120	3153	-106	307	386	C
ATOM	3200	C	ALA	D	395	63.322	4.179	-16.485	1.00	17.20		C
ANISOU	3200	C	ALA	D	395	1596	2104	2837	-93	329	304	C
ATOM	3201	O	ALA	D	395	62.559	3.518	-17.161	1.00	17.12		O
ANISOU	3201	O	ALA	D	395	1624	2193	2688	-37	361	297	O
ATOM	3202	N	GLU	D	396	64.642	3.945	-16.431	1.00	18.24		N
ANISOU	3202	N	GLU	D	396	1621	2199	3109	-159	365	321	N
ATOM	3203	CA	GLU	D	396	65.268	2.754	-17.052	1.00	19.05		C
ANISOU	3203	CA	GLU	D	396	1650	2376	3211	-147	455	320	C
ATOM	3204	CB	GLU	D	396	66.786	2.709	-16.793	1.00	19.83		C
ANISOU	3204	CB	GLU	D	396	1592	2423	3518	-212	479	336	C
ATOM	3205	CG	GLU	D	396	67.552	3.855	-17.468	1.00	25.11		C
ANISOU	3205	CG	GLU	D	396	2219	3017	4306	-286	591	433	C
ATOM	3206	CD	GLU	D	396	69.015	4.000	-17.021	1.00	27.94		C
ANISOU	3206	CD	GLU	D	396	2381	3319	4915	-376	586	439	C
ATOM	3207	OE1	GLU	D	396	69.468	3.298	-16.076	1.00	34.31		O
ANISOU	3207	OE1	GLU	D	396	3089	4143	5805	-369	459	366	O
ATOM	3208	OE2	GLU	D	396	69.726	4.828	-17.643	1.00	32.70		O
ANISOU	3208	OE2	GLU	D	396	2925	3862	5638	-458	709	525	O
ATOM	3209	C	GLU	D	396	64.601	1.433	-16.628	1.00	16.89		C
ANISOU	3209	C	GLU	D	396	1399	2181	2836	-97	395	236	C
ATOM	3210	O	GLU	D	396	64.337	0.594	-17.467	1.00	17.29		O

Figure 18 (continued)

ANISOU	3210	O	GLU	D	396	1477	2301	2790	-57	470	225	O
ATOM	3211	N	ALA	D	397	64.318	1.260	-15.340	1.00	16.42		N
ANISOU	3211	N	ALA	D	397	1346	2104	2788	-105	265	178	N
ATOM	3212	CA	ALA	D	397	63.635	0.071	-14.829	1.00	15.26		C
ANISOU	3212	CA	ALA	D	397	1236	2012	2549	-75	218	117	C
ATOM	3213	CB	ALA	D	397	63.668	0.033	-13.291	1.00	15.13		C
ANISOU	3213	CB	ALA	D	397	1230	1961	2557	-95	85	78	C
ATOM	3214	C	ALA	D	397	62.215	-0.057	-15.320	1.00	15.97		C
ANISOU	3214	C	ALA	D	397	1408	2176	2484	-43	238	95	C
ATOM	3215	O	ALA	D	397	61.786	-1.172	-15.654	1.00	16.45		O
ANISOU	3215	O	ALA	D	397	1487	2289	2476	-32	262	58	O
ATOM	3216	N	ILE	D	398	61.462	1.059	-15.321	1.00	16.01		N
ANISOU	3216	N	ILE	D	398	1457	2178	2446	-26	217	108	N
ATOM	3217	CA	ILE	D	398	60.095	1.065	-15.859	1.00	16.25		C
ANISOU	3217	CA	ILE	D	398	1533	2291	2348	19	219	92	C
ATOM	3218	CB	ILE	D	398	59.352	2.440	-15.637	1.00	16.90		C
ANISOU	3218	CB	ILE	D	398	1654	2346	2422	64	182	109	C
ATOM	3219	CG1	ILE	D	398	59.198	2.757	-14.154	1.00	16.25		C
ANISOU	3219	CG1	ILE	D	398	1581	2218	2376	53	117	51	C
ATOM	3220	CD1	ILE	D	398	58.939	4.211	-13.831	1.00	17.39		C
ANISOU	3220	CD1	ILE	D	398	1771	2278	2557	94	91	55	C
ATOM	3221	CG2	ILE	D	398	57.975	2.398	-16.248	1.00	15.79		C
ANISOU	3221	CG2	ILE	D	398	1524	2306	2169	127	170	95	C
ATOM	3222	C	ILE	D	398	60.089	0.658	-17.357	1.00	16.35		C
ANISOU	3222	C	ILE	D	398	1563	2365	2282	40	294	120	C
ATOM	3223	O	ILE	D	398	59.343	-0.227	-17.770	1.00	16.18		O
ANISOU	3223	O	ILE	D	398	1555	2424	2169	47	288	69	O
ATOM	3224	N	ILE	D	399	60.961	1.269	-18.152	1.00	16.83		N
ANISOU	3224	N	ILE	D	399	1632	2386	2379	41	371	196	N
ATOM	3225	CA	ILE	D	399	61.094	0.870	-19.567	1.00	16.97		C
ANISOU	3225	CA	ILE	D	399	1691	2465	2293	64	463	222	C
ATOM	3226	CB	ILE	D	399	62.227	1.668	-20.302	1.00	18.12		C
ANISOU	3226	CB	ILE	D	399	1838	2552	2495	49	584	328	C
ATOM	3227	CG1	ILE	D	399	61.855	3.147	-20.442	1.00	16.73		C
ANISOU	3227	CG1	ILE	D	399	1724	2317	2315	67	562	423	C
ATOM	3228	CD1	ILE	D	399	63.062	4.110	-20.649	1.00	18.57		C
ANISOU	3228	CD1	ILE	D	399	1936	2437	2683	8	667	531	C
ATOM	3229	CG2	ILE	D	399	62.537	1.045	-21.698	1.00	17.41		C
ANISOU	3229	CG2	ILE	D	399	1800	2535	2278	75	713	340	C
ATOM	3230	C	ILE	D	399	61.312	-0.653	-19.738	1.00	16.98		C
ANISOU	3230	C	ILE	D	399	1675	2507	2269	53	495	138	C
ATOM	3231	O	ILE	D	399	60.592	-1.306	-20.497	1.00	17.78		O
ANISOU	3231	O	ILE	D	399	1832	2687	2237	73	491	87	O
ATOM	3232	N	VAL	D	400	62.307	-1.207	-19.045	1.00	16.61		N
ANISOU	3232	N	VAL	D	400	1556	2398	2359	26	512	120	N
ATOM	3233	CA	VAL	D	400	62.608	-2.659	-19.102	1.00	15.36		C
ANISOU	3233	CA	VAL	D	400	1388	2241	2209	32	541	46	C
ATOM	3234	CB	VAL	D	400	63.878	-2.999	-18.262	1.00	16.29		C
ANISOU	3234	CB	VAL	D	400	1403	2277	2508	26	542	57	C
ATOM	3235	CG1	VAL	D	400	64.115	-4.500	-18.195	1.00	13.50		C
ANISOU	3235	CG1	VAL	D	400	1055	1897	2178	53	557	-12	C
ATOM	3236	CG2	VAL	D	400	65.116	-2.244	-18.837	1.00	13.64		C
ANISOU	3236	CG2	VAL	D	400	986	1920	2278	24	654	130	C
ATOM	3237	C	VAL	D	400	61.412	-3.538	-18.702	1.00	15.40		C
ANISOU	3237	C	VAL	D	400	1440	2279	2133	16	456	-35	C
ATOM	3238	O	VAL	D	400	61.069	-4.500	-19.408	1.00	16.47		O
ANISOU	3238	O	VAL	D	400	1626	2443	2188	19	485	-105	O
ATOM	3239	N	ALA	D	401	60.759	-3.208	-17.597	1.00	14.49		N
ANISOU	3239	N	ALA	D	401	1311	2156	2037	-10	363	-33	N
ATOM	3240	CA	ALA	D	401	59.557	-3.930	-17.183	1.00	14.67		C
ANISOU	3240	CA	ALA	D	401	1359	2218	1996	-43	305	-97	C
ATOM	3241	CB	ALA	D	401	59.103	-3.452	-15.809	1.00	13.69		C
ANISOU	3241	CB	ALA	D	401	1219	2081	1904	-63	238	-82	C
ATOM	3242	C	ALA	D	401	58.398	-3.848	-18.208	1.00	15.39		C
ANISOU	3242	C	ALA	D	401	1478	2411	1958	-37	291	-135	C
ATOM	3243	O	ALA	D	401	57.713	-4.818	-18.452	1.00	16.06		O
ANISOU	3243	O	ALA	D	401	1579	2526	1997	-76	274	-209	O
ATOM	3244	N	MSE	D	402	58.174	-2.688	-18.801	1.00	16.28		N
ANISOU	3244	N	MSE	D	402	1597	2569	2018	10	285	-82	N
ATOM	3245	CA	MSE	D	402	57.144	-2.553	-19.841	1.00	18.26		C
ANISOU	3245	CA	MSE	D	402	1875	2926	2137	36	243	-106	C

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Figure 18 (continued)

ATOM	3246	CB	MSE	D	402	56.928	-1.071	-20.204	1.00	18.49		C
ANISOU	3246	CB	MSE	D	402	1919	2974	2132	108	222	-14	C
ATOM	3247	CG	MSE	D	402	56.199	-0.248	-19.135	1.00	17.60		C
ANISOU	3247	CG	MSE	D	402	1749	2850	2087	130	160	-1	C
ATOM	3248	SE	MSE	D	402	56.146	1.624	-19.687	0.90	22.98		SE
ANISOU	3248	SE	MSE	D	402	2485	3496	2753	237	146	125	SE
ATOM	3249	CE	MSE	D	402	55.076	2.410	-18.255	1.00	21.33		C
ANISOU	3249	CE	MSE	D	402	2203	3271	2632	282	78	86	C
ATOM	3250	C	MSE	D	402	57.429	-3.401	-21.105	1.00	17.59		C
ANISOU	3250	C	MSE	D	402	1861	2875	1947	35	288	-158	C
ATOM	3251	O	MSE	D	402	56.527	-4.090	-21.622	1.00	17.86		O
ANISOU	3251	O	MSE	D	402	1912	2982	1891	9	226	-245	O
ATOM	3252	N	VAL	D	403	58.675	-3.365	-21.578	1.00	17.04		N
ANISOU	3252	N	VAL	D	403	1828	2753	1894	59	399	-117	N
ATOM	3253	CA	VAL	D	403	59.106	-4.194	-22.698	1.00	17.23		C
ANISOU	3253	CA	VAL	D	403	1930	2797	1818	71	477	-179	C
ATOM	3254	CB	VAL	D	403	60.556	-3.848	-23.174	1.00	18.02		C
ANISOU	3254	CB	VAL	D	403	2039	2850	1958	109	637	-106	C
ATOM	3255	CG1	VAL	D	403	61.044	-4.814	-24.226	1.00	17.77		C
ANISOU	3255	CG1	VAL	D	403	2091	2834	1828	135	747	-191	C
ATOM	3256	CG2	VAL	D	403	60.625	-2.412	-23.711	1.00	17.84		C
ANISOU	3256	CG2	VAL	D	403	2047	2857	1873	143	665	26	C
ATOM	3257	C	VAL	D	403	58.943	-5.683	-22.346	1.00	17.40		C
ANISOU	3257	C	VAL	D	403	1955	2774	1884	20	460	-304	C
ATOM	3258	O	VAL	D	403	58.320	-6.447	-23.087	1.00	17.38		O
ANISOU	3258	O	VAL	D	403	2019	2816	1768	-1	427	-409	O
ATOM	3259	N	PHE	D	404	59.463	-6.068	-21.187	1.00	16.85		N
ANISOU	3259	N	PHE	D	404	1821	2605	1975	-4	468	-290	N
ATOM	3260	CA	PHE	D	404	59.430	-7.453	-20.709	1.00	16.94		C
ANISOU	3260	CA	PHE	D	404	1850	2535	2053	-47	459	-377	C
ATOM	3261	CB	PHE	D	404	60.112	-7.514	-19.346	1.00	15.89		C
ANISOU	3261	CB	PHE	D	404	1652	2303	2081	-48	451	-311	C
ATOM	3262	CG	PHE	D	404	60.205	-8.886	-18.770	1.00	14.98		C
ANISOU	3262	CG	PHE	D	404	1571	2077	2043	-77	445	-364	C
ATOM	3263	CD1	PHE	D	404	61.249	-9.757	-19.143	1.00	15.77		C
ANISOU	3263	CD1	PHE	D	404	1698	2082	2212	-16	525	-400	C
ATOM	3264	CE1	PHE	D	404	61.321	-11.039	-18.585	1.00	17.63		C
ANISOU	3264	CE1	PHE	D	404	1984	2185	2531	-30	513	-438	C
ATOM	3265	CZ	PHE	D	404	60.388	-11.449	-17.653	1.00	16.05		C
ANISOU	3265	CZ	PHE	D	404	1812	1951	2336	-121	435	-426	C
ATOM	3266	CE2	PHE	D	404	59.342	-10.569	-17.262	1.00	17.50		C
ANISOU	3266	CE2	PHE	D	404	1951	2250	2448	-190	374	-393	C
ATOM	3267	CD2	PHE	D	404	59.283	-9.297	-17.818	1.00	13.88		C
ANISOU	3267	CD2	PHE	D	404	1438	1917	1919	-156	374	-367	C
ATOM	3268	C	PHE	D	404	58.010	-8.031	-20.605	1.00	17.76		C
ANISOU	3268	C	PHE	D	404	1967	2679	2102	-130	361	-459	C
ATOM	3269	O	PHE	D	404	57.797	-9.247	-20.769	1.00	17.49		O
ANISOU	3269	O	PHE	D	404	1986	2584	2073	-180	361	-559	O
ATOM	3270	N	SER	D	405	57.052	-7.151	-20.315	1.00	18.09		N
ANISOU	3270	N	SER	D	405	1951	2814	2110	-146	283	-420	N
ATOM	3271	CA	SER	D	405	55.637	-7.523	-20.129	1.00	19.11		C
ANISOU	3271	CA	SER	D	405	2039	3005	2216	-228	193	-487	C
ATOM	3272	CB	SER	D	405	54.863	-6.332	-19.573	1.00	18.78		C
ANISOU	3272	CB	SER	D	405	1906	3051	2179	-203	138	-418	C
ATOM	3273	OG	SER	D	405	54.618	-5.349	-20.582	1.00	21.57		O
ANISOU	3273	OG	SER	D	405	2269	3504	2423	-125	96	-388	O
ATOM	3274	C	SER	D	405	54.985	-8.034	-21.418	1.00	20.52		C
ANISOU	3274	C	SER	D	405	2267	3260	2268	-254	138	-600	C
ATOM	3275	O	SER	D	405	54.015	-8.769	-21.350	1.00	21.91		O
ANISOU	3275	O	SER	D	405	2413	3456	2458	-351	72	-689	O
ATOM	3276	N	GLN	D	406	55.571	-7.670	-22.566	1.00	21.23		N
ANISOU	3276	N	GLN	D	406	2441	3390	2236	-175	172	-596	N
ATOM	3277	CA	GLN	D	406	55.127	-8.012	-23.897	1.00	22.62		C
ANISOU	3277	CA	GLN	D	406	2703	3650	2242	-175	117	-699	C
ATOM	3278	CB	GLN	D	406	55.211	-9.513	-24.125	1.00	23.49		C
ANISOU	3278	CB	GLN	D	406	2891	3667	2369	-252	136	-852	C
ATOM	3279	CG	GLN	D	406	56.607	-10.072	-23.936	1.00	22.07		C
ANISOU	3279	CG	GLN	D	406	2774	3339	2271	-202	291	-842	C
ATOM	3280	CD	GLN	D	406	56.648	-11.573	-24.102	1.00	23.20		C
ANISOU	3280	CD	GLN	D	406	3007	3356	2451	-264	309	-996	C
ATOM	3281	OE1	GLN	D	406	55.795	-12.289	-23.567	1.00	21.91		O

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Figure 18 (continued)

ANISOU	3281	OE1	GLN	D	406	2815	3144	2366	-382	229	-1058	O
ATOM	3282	NE2	GLN	D	406	57.631	-12.062	-24.863	1.00	22.17		N
ANISOU	3282	NE2	GLN	D	406	2989	3163	2270	-186	426	-1061	N
ATOM	3283	C	GLN	D	406	53.732	-7.462	-24.252	1.00	24.34		C
ANISOU	3283	C	GLN	D	406	2853	4022	2375	-190	-45	-716	C
ATOM	3284	O	GLN	D	406	53.072	-8.002	-25.126	1.00	26.35		O
ANISOU	3284	O	GLN	D	406	3151	4349	2512	-230	-144	-835	O
ATOM	3285	N	GLU	D	407	53.301	-6.400	-23.576	1.00	23.86		N
ANISOU	3285	N	GLU	D	407	2683	4006	2376	-150	-80	-607	N
ATOM	3286	CA	GLU	D	407	51.981	-5.796	-23.788	1.00	25.52		C
ANISOU	3286	CA	GLU	D	407	2793	4360	2543	-134	-232	-609	C
ATOM	3287	CB	GLU	D	407	51.717	-4.639	-22.799	1.00	24.44		C
ANISOU	3287	CB	GLU	D	407	2544	4227	2515	-71	-223	-490	C
ATOM	3288	CG	GLU	D	407	51.472	-5.060	-21.360	1.00	25.08		C
ANISOU	3288	CG	GLU	D	407	2519	4243	2767	-157	-170	-504	C
ATOM	3289	CD	GLU	D	407	50.431	-4.211	-20.650	1.00	25.93		C
ANISOU	3289	CD	GLU	D	407	2476	4430	2946	-117	-219	-468	C
ATOM	3290	OE1	GLU	D	407	49.823	-3.328	-21.282	1.00	30.67		O
ANISOU	3290	OE1	GLU	D	407	3037	5131	3485	-17	-316	-436	O
ATOM	3291	OE2	GLU	D	407	50.193	-4.445	-19.455	1.00	24.61		O
ANISOU	3291	OE2	GLU	D	407	2235	4224	2892	-177	-157	-471	O
ATOM	3292	C	GLU	D	407	51.805	-5.244	-25.195	1.00	26.98		C
ANISOU	3292	C	GLU	D	407	3072	4661	2517	-44	-322	-598	C
ATOM	3293	O	GLU	D	407	52.719	-4.653	-25.768	1.00	26.51		O
ANISOU	3293	O	GLU	D	407	3136	4577	2359	43	-236	-508	O
ATOM	3294	N	ASP	D	408	50.596	-5.404	-25.710	1.00	29.10		N
ANISOU	3294	N	ASP	D	408	3273	5062	2720	-68	-498	-681	N
ATOM	3295	CA	ASP	D	408	50.199	-4.853	-27.013	1.00	31.78		C
ANISOU	3295	CA	ASP	D	408	3697	5539	2839	27	-637	-666	C
ATOM	3296	CB	ASP	D	408	48.762	-5.265	-27.372	1.00	34.18		C
ANISOU	3296	CB	ASP	D	408	3873	5992	3124	-31	-866	-792	C
ATOM	3297	CG	ASP	D	408	48.348	-4.814	-28.781	1.00	39.52		C
ANISOU	3297	CG	ASP	D	408	4655	6821	3538	70	-1048	-789	C
ATOM	3298	OD1	ASP	D	408	49.101	-5.101	-29.741	1.00	40.65		O
ANISOU	3298	OD1	ASP	D	408	5022	6953	3469	91	-999	-816	O
ATOM	3299	OD2	ASP	D	408	47.267	-4.173	-28.920	1.00	42.45		O
ANISOU	3299	OD2	ASP	D	408	4889	7328	3911	139	-1240	-758	O
ATOM	3300	C	ASP	D	408	50.353	-3.342	-27.114	1.00	30.90		C
ANISOU	3300	C	ASP	D	408	3607	5449	2686	185	-631	-478	C
ATOM	3301	O	ASP	D	408	50.746	-2.852	-28.164	1.00	32.78		O
ANISOU	3301	O	ASP	D	408	4008	5725	2721	275	-638	-408	O
ATOM	3302	N	ACYS	D	409	50.067	-2.594	-26.052	0.50	29.14		N
ANISOU	3302	N	ACYS	D	409	3243	5189	2642	219	-609	-394	N
ATOM	3303	N	BCYS	D	409	50.023	-2.637	-26.028	0.50	29.40		N
ANISOU	3303	N	BCYS	D	409	3268	5224	2679	214	-613	-401	N
ATOM	3304	CA	ACYS	D	409	50.211	-1.138	-26.143	0.50	29.02		C
ANISOU	3304	CA	ACYS	D	409	3266	5159	2603	370	-605	-222	C
ATOM	3305	CA	BCYS	D	409	50.202	-1.188	-25.910	0.50	29.33		C
ANISOU	3305	CA	BCYS	D	409	3279	5184	2680	356	-592	-230	C
ATOM	3306	CB	ACYS	D	409	49.420	-0.405	-25.050	0.50	28.83		C
ANISOU	3306	CB	ACYS	D	409	3056	5130	2766	418	-640	-186	C
ATOM	3307	CB	BCYS	D	409	49.874	-0.714	-24.481	0.50	28.22		C
ANISOU	3307	CB	BCYS	D	409	2976	4982	2765	357	-546	-204	C
ATOM	3308	SG	ACYS	D	409	50.276	-0.105	-23.502	0.50	27.27		S
ANISOU	3308	SG	ACYS	D	409	2828	4756	2776	378	-445	-139	S
ATOM	3309	SG	BCYS	D	409	48.105	-0.436	-24.090	0.50	33.35		S
ANISOU	3309	SG	BCYS	D	409	3379	5779	3515	404	-720	-257	S
ATOM	3310	C	ACYS	D	409	51.667	-0.658	-26.204	0.50	27.74		C
ANISOU	3310	C	ACYS	D	409	3260	4860	2420	395	-416	-104	C
ATOM	3311	C	BCYS	D	409	51.624	-0.756	-26.258	0.50	28.09		C
ANISOU	3311	C	BCYS	D	409	3304	4913	2455	389	-423	-117	C
ATOM	3312	O	ACYS	D	409	51.933	0.433	-26.730	0.50	28.22		O
ANISOU	3312	O	ACYS	D	409	3420	4902	2398	505	-407	42	O
ATOM	3313	O	BCYS	D	409	51.824	0.197	-27.026	0.50	28.90		O
ANISOU	3313	O	BCYS	D	409	3525	5025	2431	499	-434	14	O
ATOM	3314	N	MSE	D	410	52.594	-1.466	-25.672	1.00	25.88		N
ANISOU	3314	N	MSE	D	410	3037	4523	2272	295	-268	-161	N
ATOM	3315	CA	MSE	D	410	54.024	-1.213	-25.835	1.00	24.44		C
ANISOU	3315	CA	MSE	D	410	2971	4231	2082	304	-88	-74	C
ATOM	3316	CB	MSE	D	410	54.833	-2.065	-24.854	1.00	22.88		C
ANISOU	3316	CB	MSE	D	410	2718	3922	2054	208	32	-139	C

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Figure 18 (continued)

ATOM	3317	CG	MSE	D	410	56.350	-1.955	-24.998	1.00	21.58		C
ANISOU	3317	CG	MSE	D	410	2626	3656	1917	211	213	-70	C
ATOM	3318	SE	MSE	D	410	57.152	-3.307	-26.167	0.90	25.86		SE
ANISOU	3318	SE	MSE	D	410	3301	4215	2311	188	331	-187	SE
ATOM	3319	CE	MSE	D	410	56.323	-4.892	-25.393	1.00	24.10		C
ANISOU	3319	CE	MSE	D	410	2993	3974	2189	79	226	-383	C
ATOM	3320	C	MSE	D	410	54.468	-1.456	-27.290	1.00	26.13		C
ANISOU	3320	C	MSE	D	410	3363	4505	2058	335	-51	-73	C
ATOM	3321	O	MSE	D	410	55.180	-0.626	-27.871	1.00	26.11		O
ANISOU	3321	O	MSE	D	410	3474	4473	1973	398	47	65	O
ATOM	3322	N	ILE	D	411	54.017	-2.573	-27.865	1.00	26.59		N
ANISOU	3322	N	ILE	D	411	3456	4644	2004	284	-125	-229	N
ATOM	3323	CA	ILE	D	411	54.312	-2.938	-29.242	1.00	28.85		C
ANISOU	3323	CA	ILE	D	411	3929	5002	2031	313	-103	-269	C
ATOM	3324	CB	ILE	D	411	53.870	-4.398	-29.528	1.00	29.45		C
ANISOU	3324	CB	ILE	D	411	4020	5117	2054	221	-180	-493	C
ATOM	3325	CG1	ILE	D	411	54.922	-5.354	-28.950	1.00	30.86		C
ANISOU	3325	CG1	ILE	D	411	4192	5151	2384	152	9	-568	C
ATOM	3326	CD1	ILE	D	411	54.414	-6.711	-28.627	1.00	33.71		C
ANISOU	3326	CD1	ILE	D	411	4508	5477	2824	40	-62	-761	C
ATOM	3327	CG2	ILE	D	411	53.748	-4.648	-31.007	1.00	32.12		C
ANISOU	3327	CG2	ILE	D	411	4558	5571	2076	263	-237	-560	C
ATOM	3328	C	ILE	D	411	53.726	-1.918	-30.235	1.00	30.57		C
ANISOU	3328	C	ILE	D	411	4252	5336	2025	427	-227	-151	C
ATOM	3329	O	ILE	D	411	54.376	-1.536	-31.219	1.00	31.47		O
ANISOU	3329	O	ILE	D	411	4553	5470	1935	489	-128	-62	O
ATOM	3330	N	LYS	D	412	52.501	-1.477	-29.956	1.00	30.42		N
ANISOU	3330	N	LYS	D	412	4112	5395	2052	462	-436	-143	N
ATOM	3331	CA	LYS	D	412	51.861	-0.437	-30.741	1.00	32.14		C
ANISOU	3331	CA	LYS	D	412	4405	5709	2097	595	-584	-13	C
ATOM	3332	CB	LYS	D	412	50.356	-0.417	-30.473	1.00	32.55		C
ANISOU	3332	CB	LYS	D	412	4273	5878	2215	618	-846	-83	C
ATOM	3333	CG	LYS	D	412	49.618	-1.672	-30.980	1.00	35.49		C
ANISOU	3333	CG	LYS	D	412	4615	6379	2489	522	-1011	-302	C
ATOM	3334	CD	LYS	D	412	49.784	-1.869	-32.495	1.00	37.96		C
ANISOU	3334	CD	LYS	D	412	5179	6799	2444	570	-1080	-323	C
ATOM	3335	CE	LYS	D	412	48.933	-3.010	-33.017	1.00	41.23		C
ANISOU	3335	CE	LYS	D	412	5565	7342	2760	474	-1290	-557	C
ATOM	3336	NZ	LYS	D	412	49.410	-4.347	-32.577	1.00	40.94		N
ANISOU	3336	NZ	LYS	D	412	5511	7204	2841	307	-1155	-748	N
ATOM	3337	C	LYS	D	412	52.488	0.954	-30.564	1.00	31.37		C
ANISOU	3337	C	LYS	D	412	4368	5501	2052	689	-464	219	C
ATOM	3338	O	LYS	D	412	52.263	1.832	-31.384	1.00	34.17		O
ANISOU	3338	O	LYS	D	412	4853	5899	2228	808	-535	364	O
ATOM	3339	N	ALA	D	413	53.283	1.145	-29.513	1.00	28.83		N
ANISOU	3339	N	ALA	D	413	3961	5027	1966	633	-291	254	N
ATOM	3340	CA	ALA	D	413	54.009	2.413	-29.275	1.00	28.38		C
ANISOU	3340	CA	ALA	D	413	3958	4834	1993	687	-162	453	C
ATOM	3341	CB	ALA	D	413	54.311	2.582	-27.805	1.00	25.93		C
ANISOU	3341	CB	ALA	D	413	3482	4390	1981	626	-91	433	C
ATOM	3342	C	ALA	D	413	55.295	2.553	-30.097	1.00	29.23		C
ANISOU	3342	C	ALA	D	413	4248	4891	1969	672	54	557	C
ATOM	3343	O	ALA	D	413	55.935	3.610	-30.084	1.00	29.28		O
ANISOU	3343	O	ALA	D	413	4316	4781	2026	698	170	734	O
ATOM	3344	N	VAL	D	414	55.681	1.491	-30.803	1.00	29.64		N
ANISOU	3344	N	VAL	D	414	4382	5018	1860	624	122	442	N
ATOM	3345	CA	VAL	D	414	56.838	1.555	-31.696	1.00	31.53		C
ANISOU	3345	CA	VAL	D	414	4796	5239	1947	622	349	527	C
ATOM	3346	CB	VAL	D	414	57.244	0.153	-32.204	1.00	31.72		C
ANISOU	3346	CB	VAL	D	414	4872	5330	1851	568	433	337	C
ATOM	3347	CG1	VAL	D	414	58.299	0.242	-33.322	1.00	32.64		C
ANISOU	3347	CG1	VAL	D	414	5189	5463	1751	592	677	419	C
ATOM	3348	CG2	VAL	D	414	57.755	-0.679	-31.067	1.00	26.96		C
ANISOU	3348	CG2	VAL	D	414	4084	4628	1532	474	509	207	C
ATOM	3349	C	VAL	D	414	56.567	2.486	-32.871	1.00	34.97		C
ANISOU	3349	C	VAL	D	414	5447	5737	2103	730	311	706	C
ATOM	3350	O	VAL	D	414	55.529	2.404	-33.514	1.00	37.43		O
ANISOU	3350	O	VAL	D	414	5833	6183	2206	804	94	673	O
ATOM	3351	N	ARG	D	415	57.504	3.384	-33.133	1.00	37.13		N
ANISOU	3351	N	ARG	D	415	5819	5909	2380	735	517	905	N
ATOM	3352	CA	ARG	D	415	57.422	4.265	-34.293	1.00	41.20		C

Figure 18 (continued)

ANISOU	3352	CA	ARG	D	415	6579	6461	2613	830	529	1110	C
ATOM	3353	CB	ARG	D	415	57.470	5.732	-33.856	1.00	41.42		C
ANISOU	3353	CB	ARG	D	415	6605	6324	2807	867	539	1341	C
ATOM	3354	CG	ARG	D	415	56.268	6.184	-33.006	1.00	40.12		C
ANISOU	3354	CG	ARG	D	415	6292	6136	2814	940	267	1312	C
ATOM	3355	CD	ARG	D	415	54.948	6.139	-33.791	1.00	40.78		C
ANISOU	3355	CD	ARG	D	415	6465	6391	2638	1079	-17	1301	C
ATOM	3356	NE	ARG	D	415	53.810	6.480	-32.938	1.00	40.08		N
ANISOU	3356	NE	ARG	D	415	6189	6295	2746	1151	-253	1252	N
ATOM	3357	CZ	ARG	D	415	53.013	5.596	-32.344	1.00	38.46		C
ANISOU	3357	CZ	ARG	D	415	5779	6195	2639	1117	-410	1034	C
ATOM	3358	NH1	ARG	D	415	53.202	4.298	-32.529	1.00	38.97		N
ANISOU	3358	NH1	ARG	D	415	5819	6364	2626	1012	-379	843	N
ATOM	3359	NH2	ARG	D	415	52.011	6.011	-31.573	1.00	36.41		N
ANISOU	3359	NH2	ARG	D	415	5342	5928	2563	1190	-586	1008	N
ATOM	3360	C	ARG	D	415	58.551	3.952	-35.281	1.00	43.98		C
ANISOU	3360	C	ARG	D	415	7110	6845	2756	796	815	1153	C
ATOM	3361	O	ARG	D	415	59.724	3.892	-34.899	1.00	43.78		O
ANISOU	3361	O	ARG	D	415	6999	6716	2919	706	1074	1170	O
ATOM	3362	N	GLY	D	416	58.191	3.744	-36.545	1.00	47.07		N
ANISOU	3362	N	GLY	D	416	7743	7387	2756	874	766	1163	N
ATOM	3363	CA	GLY	D	416	59.167	3.367	-37.555	1.00	50.12		C
ANISOU	3363	CA	GLY	D	416	8322	7829	2894	856	1047	1180	C
ATOM	3364	C	GLY	D	416	59.585	1.904	-37.482	1.00	49.71		C
ANISOU	3364	C	GLY	D	416	8192	7833	2861	793	1140	902	C
ATOM	3365	O	GLY	D	416	59.098	1.128	-36.639	1.00	47.48		O
ANISOU	3365	O	GLY	D	416	7713	7542	2783	750	976	701	O
ATOM	3366	N	ASP	D	417	60.483	1.527	-38.386	1.00	52.34		N
ANISOU	3366	N	ASP	D	417	8692	8219	2976	793	1417	896	N
ATOM	3367	CA	ASP	D	417	60.963	0.150	-38.487	1.00	52.48		C
ANISOU	3367	CA	ASP	D	417	8681	8279	2981	761	1539	635	C
ATOM	3368	CB	ASP	D	417	61.397	-0.171	-39.931	1.00	56.31		C
ANISOU	3368	CB	ASP	D	417	9473	8894	3029	820	1741	619	C
ATOM	3369	CG	ASP	D	417	60.213	-0.435	-40.865	1.00	59.32		C
ANISOU	3369	CG	ASP	D	417	10103	9446	2990	899	1447	528	C
ATOM	3370	OD1	ASP	D	417	59.072	-0.585	-40.386	1.00	59.62		O
ANISOU	3370	OD1	ASP	D	417	10036	9508	3109	898	1092	434	O
ATOM	3371	OD2	ASP	D	417	60.426	-0.508	-42.095	1.00	65.27		O
ANISOU	3371	OD2	ASP	D	417	11157	10319	3324	961	1571	544	O
ATOM	3372	C	ASP	D	417	62.098	-0.116	-37.495	1.00	49.99		C
ANISOU	3372	C	ASP	D	417	8103	7818	3073	676	1773	604	C
ATOM	3373	O	ASP	D	417	62.852	0.793	-37.130	1.00	49.00		O
ANISOU	3373	O	ASP	D	417	7885	7587	3145	634	1948	804	O
ATOM	3374	N	LEU	D	418	62.205	-1.370	-37.064	1.00	48.76		N
ANISOU	3374	N	LEU	D	418	7831	7652	3045	649	1760	353	N
ATOM	3375	CA	LEU	D	418	63.263	-1.792	-36.159	1.00	47.10		C
ANISOU	3375	CA	LEU	D	418	7377	7317	3201	592	1951	302	C
ATOM	3376	CB	LEU	D	418	62.671	-2.523	-34.951	1.00	43.74		C
ANISOU	3376	CB	LEU	D	418	6747	6820	3051	545	1712	135	C
ATOM	3377	CG	LEU	D	418	61.641	-1.770	-34.088	1.00	41.30		C
ANISOU	3377	CG	LEU	D	418	6331	6480	2881	518	1426	222	C
ATOM	3378	CD1	LEU	D	418	61.103	-2.653	-32.963	1.00	38.43		C
ANISOU	3378	CD1	LEU	D	418	5787	6060	2756	466	1240	45	C
ATOM	3379	CD2	LEU	D	418	62.198	-0.471	-33.502	1.00	40.54		C
ANISOU	3379	CD2	LEU	D	418	6125	6279	2999	488	1516	456	C
ATOM	3380	C	LEU	D	418	64.314	-2.643	-36.873	1.00	49.82		C
ANISOU	3380	C	LEU	D	418	7792	7692	3447	625	2264	186	C
ATOM	3381	O	LEU	D	418	64.020	-3.727	-37.397	1.00	50.62		O
ANISOU	3381	O	LEU	D	418	8020	7854	3358	665	2228	-37	O
ATOM	3382	N	ASN	D	419	65.543	-2.131	-36.890	1.00	51.58		N
ANISOU	3382	N	ASN	D	419	7923	7863	3811	605	2578	331	N
ATOM	3383	CA	ASN	D	419	66.641	-2.741	-37.637	1.00	55.38		C
ANISOU	3383	CA	ASN	D	419	8453	8383	4204	650	2935	258	C
ATOM	3384	CB	ASN	D	419	66.810	-2.036	-38.993	1.00	59.00		C
ANISOU	3384	CB	ASN	D	419	9195	8957	4265	688	3148	420	C
ATOM	3385	CG	ASN	D	419	65.665	-2.308	-39.945	1.00	61.70		C
ANISOU	3385	CG	ASN	D	419	9864	9436	4145	756	2933	329	C
ATOM	3386	OD1	ASN	D	419	65.411	-3.454	-40.327	1.00	65.31		O
ANISOU	3386	OD1	ASN	D	419	10428	9949	4440	806	2887	70	O
ATOM	3387	ND2	ASN	D	419	64.978	-1.249	-40.352	1.00	63.31		N
ANISOU	3387	ND2	ASN	D	419	10234	9687	4135	763	2791	539	N

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Figure 18 (continued)

ATOM	3388	C	ASN	D	419	67.967	-2.719	-36.875	1.00	55.20		C
ANISOU	3388	C	ASN	D	419	8127	8253	4594	607	3178	304	C
ATOM	3389	O	ASN	D	419	69.023	-2.657	-37.482	1.00	57.94		O
ANISOU	3389	O	ASN	D	419	8467	8629	4917	625	3529	357	O
ATOM	3390	N	PHE	D	420	67.907	-2.779	-35.544	1.00	53.13		N
ANISOU	3390	N	PHE	D	420	7606	7875	4704	552	2988	281	N
ATOM	3391	CA	PHE	D	420	69.109	-2.716	-34.699	1.00	52.97		C
ANISOU	3391	CA	PHE	D	420	7276	7755	5095	508	3151	324	C
ATOM	3392	CB	PHE	D	420	68.768	-2.606	-33.210	1.00	49.23		C
ANISOU	3392	CB	PHE	D	420	6582	7166	4956	444	2866	319	C
ATOM	3393	CG	PHE	D	420	68.193	-1.287	-32.813	1.00	47.59		C
ANISOU	3393	CG	PHE	D	420	6385	6920	4777	366	2702	511	C
ATOM	3394	CD1	PHE	D	420	66.832	-1.155	-32.549	1.00	44.55		C
ANISOU	3394	CD1	PHE	D	420	6113	6548	4267	372	2390	485	C
ATOM	3395	CE1	PHE	D	420	66.292	0.070	-32.189	1.00	42.45		C
ANISOU	3395	CE1	PHE	D	420	5858	6235	4036	326	2247	653	C
ATOM	3396	CZ	PHE	D	420	67.108	1.173	-32.079	1.00	44.31		C
ANISOU	3396	CZ	PHE	D	420	6013	6391	4434	255	2405	848	C
ATOM	3397	CE2	PHE	D	420	68.467	1.060	-32.333	1.00	47.66		C
ANISOU	3397	CE2	PHE	D	420	6314	6802	4991	223	2712	881	C
ATOM	3398	CD2	PHE	D	420	69.007	-0.170	-32.699	1.00	48.65		C
ANISOU	3398	CD2	PHE	D	420	6408	6994	5082	287	2863	713	C
ATOM	3399	C	PHE	D	420	70.044	-3.885	-34.897	1.00	55.24		C
ANISOU	3399	C	PHE	D	420	7475	8045	5470	588	3382	148	C
ATOM	3400	O	PHE	D	420	69.616	-5.017	-35.139	1.00	55.65		O
ANISOU	3400	O	PHE	D	420	7645	8113	5387	664	3310	-68	O
ATOM	3401	N	VAL	D	421	71.326	-3.572	-34.740	1.00	57.63		N
ANISOU	3401	N	VAL	D	421	7549	8317	6030	565	3651	242	N
ATOM	3402	CA	VAL	D	421	72.446	-4.448	-35.036	1.00	60.77		C
ANISOU	3402	CA	VAL	D	421	7821	8726	6542	654	3948	120	C
ATOM	3403	CB	VAL	D	421	73.166	-3.930	-36.322	1.00	64.47		C
ANISOU	3403	CB	VAL	D	421	8404	9304	6788	666	4360	236	C
ATOM	3404	CG1	VAL	D	421	74.630	-4.300	-36.367	1.00	67.05		C
ANISOU	3404	CG1	VAL	D	421	8458	9632	7386	714	4721	208	C
ATOM	3405	CG2	VAL	D	421	72.428	-4.388	-37.580	1.00	66.03		C
ANISOU	3405	CG2	VAL	D	421	8997	9617	6475	754	4400	126	C
ATOM	3406	C	VAL	D	421	73.361	-4.471	-33.799	1.00	60.35		C
ANISOU	3406	C	VAL	D	421	7378	8567	6985	619	3924	144	C
ATOM	3407	O	VAL	D	421	73.403	-3.496	-33.045	1.00	58.87		O
ANISOU	3407	O	VAL	D	421	7042	8323	7003	501	3800	305	O
ATOM	3408	N	ASN	D	422	74.043	-5.593	-33.555	1.00	62.10		N
ANISOU	3408	N	ASN	D	422	7446	8752	7397	728	4012	-23	N
ATOM	3409	CA	ASN	D	422	75.069	-5.636	-32.502	1.00	62.56		C
ANISOU	3409	CA	ASN	D	422	7120	8730	7918	718	4012	6	C
ATOM	3410	CB	ASN	D	422	75.045	-6.970	-31.720	1.00	61.54		C
ANISOU	3410	CB	ASN	D	422	6907	8505	7969	834	3835	-189	C
ATOM	3411	CG	ASN	D	422	75.460	-8.203	-32.559	1.00	64.42		C
ANISOU	3411	CG	ASN	D	422	7361	8885	8231	1012	4080	-391	C
ATOM	3412	OD1	ASN	D	422	75.195	-9.336	-32.147	1.00	63.87		O
ANISOU	3412	OD1	ASN	D	422	7329	8720	8219	1110	3933	-561	O
ATOM	3413	ND2	ASN	D	422	76.118	-7.995	-33.700	1.00	67.10		N
ANISOU	3413	ND2	ASN	D	422	7740	9330	8425	1055	4460	-372	N
ATOM	3414	C	ASN	D	422	76.469	-5.287	-33.033	1.00	66.36		C
ANISOU	3414	C	ASN	D	422	7376	9270	8567	724	4415	91	C
ATOM	3415	O	ASN	D	422	76.626	-4.987	-34.223	1.00	69.23		O
ANISOU	3415	O	ASN	D	422	7905	9734	8666	733	4718	140	O
ATOM	3416	N	ARG	D	423	77.475	-5.324	-32.158	1.00	67.11		N
ANISOU	3416	N	ARG	D	423	7093	9311	9095	719	4419	113	N
ATOM	3417	CA	ARG	D	423	78.878	-5.054	-32.539	1.00	71.12		C
ANISOU	3417	CA	ARG	D	423	7306	9875	9840	720	4794	183	C
ATOM	3418	CB	ARG	D	423	79.805	-5.272	-31.338	1.00	70.83		C
ANISOU	3418	CB	ARG	D	423	6839	9769	10305	731	4668	172	C
ATOM	3419	CG	ARG	D	423	81.105	-4.524	-31.468	1.00	75.85		C
ANISOU	3419	CG	ARG	D	423	7115	10456	11248	641	4957	306	C
ATOM	3420	CD	ARG	D	423	82.094	-4.875	-30.379	1.00	78.88		C
ANISOU	3420	CD	ARG	D	423	7053	10793	12126	681	4832	269	C
ATOM	3421	NE	ARG	D	423	83.449	-4.480	-30.778	1.00	83.39		N
ANISOU	3421	NE	ARG	D	423	7254	11442	12987	644	5197	346	N
ATOM	3422	CZ	ARG	D	423	84.346	-3.929	-29.962	1.00	85.30		C
ANISOU	3422	CZ	ARG	D	423	7077	11667	13667	531	5116	429	C
ATOM	3423	NH1	ARG	D	423	84.039	-3.684	-28.689	1.00	83.30		N

Figure 18 (continued)

ANISOU	3423	NH1	ARG	D	423	6747	11320	13584	452	4676	442	N
ATOM	3424	NH2	ARG	D	423	85.547	-3.606	-30.420	1.00	88.44		N
ANISOU	3424	NH2	ARG	D	423	7128	12146	14328	490	5478	494	N
ATOM	3425	C	ARG	D	423	79.401	-5.843	-33.761	1.00	74.67		C
ANISOU	3425	C	ARG	D	423	7845	10417	10109	882	5200	61	C
ATOM	3426	O	ARG	D	423	80.280	-5.369	-34.493	1.00	78.15		O
ANISOU	3426	O	ARG	D	423	8167	10945	10580	855	5588	155	O
ATOM	3427	N	ALA	D	424	78.849	-7.036	-33.971	1.00	74.34		N
ANISOU	3427	N	ALA	D	424	8018	10348	9879	1042	5120	-153	N
ATOM	3428	CA	ALA	D	424	79.275	-7.945	-35.036	1.00	77.50		C
ANISOU	3428	CA	ALA	D	424	8532	10811	10104	1222	5468	-322	C
ATOM	3429	CB	ALA	D	424	79.327	-9.375	-34.497	1.00	77.08		C
ANISOU	3429	CB	ALA	D	424	8426	10642	10219	1410	5328	-554	C
ATOM	3430	C	ALA	D	424	78.429	-7.881	-36.329	1.00	78.58		C
ANISOU	3430	C	ALA	D	424	9131	11043	9682	1227	5589	-362	C
ATOM	3431	O	ALA	D	424	78.708	-8.612	-37.287	1.00	81.61		O
ANISOU	3431	O	ALA	D	424	9666	11484	9858	1375	5881	-520	O
ATOM	3432	N	ASN	D	425	77.396	-7.032	-36.340	1.00	76.24		N
ANISOU	3432	N	ASN	D	425	9062	10762	9143	1081	5352	-230	N
ATOM	3433	CA	ASN	D	425	76.541	-6.773	-37.531	1.00	77.06		C
ANISOU	3433	CA	ASN	D	425	9601	10971	8708	1070	5413	-224	C
ATOM	3434	CB	ASN	D	425	77.382	-6.619	-38.817	1.00	81.53		C
ANISOU	3434	CB	ASN	D	425	10245	11670	9062	1128	5927	-191	C
ATOM	3435	CG	ASN	D	425	76.892	-5.487	-39.721	1.00	82.66		C
ANISOU	3435	CG	ASN	D	425	10683	11919	8803	1017	6017	23	C
ATOM	3436	OD1	ASN	D	425	75.842	-4.884	-39.484	1.00	79.73		O
ANISOU	3436	OD1	ASN	D	425	10484	11524	8284	921	5681	122	O
ATOM	3437	ND2	ASN	D	425	77.670	-5.189	-40.763	1.00	87.19		N
ANISOU	3437	ND2	ASN	D	425	11314	12609	9204	1038	6484	104	N
ATOM	3438	C	ASN	D	425	75.343	-7.727	-37.759	1.00	75.53		C
ANISOU	3438	C	ASN	D	425	9745	10754	8199	1149	5142	-450	C
ATOM	3439	O	ASN	D	425	74.857	-7.888	-38.889	1.00	77.60		O
ANISOU	3439	O	ASN	D	425	10357	11113	8012	1196	5244	-527	O
ATOM	3440	N	GLN	D	426	74.866	-8.349	-36.685	1.00	72.05		N
ANISOU	3440	N	GLN	D	426	9203	10184	7987	1153	4795	-555	N
ATOM	3441	CA	GLN	D	426	73.650	-9.164	-36.756	1.00	70.27		C
ANISOU	3441	CA	GLN	D	426	9262	9919	7517	1181	4501	-748	C
ATOM	3442	CB	GLN	D	426	73.803	-10.451	-35.941	1.00	69.42		C
ANISOU	3442	CB	GLN	D	426	9024	9655	7697	1280	4372	-950	C
ATOM	3443	CG	GLN	D	426	74.946	-11.353	-36.387	1.00	73.99		C
ANISOU	3443	CG	GLN	D	426	9510	10209	8392	1461	4723	-1107	C
ATOM	3444	CD	GLN	D	426	75.603	-12.085	-35.226	1.00	74.03		C
ANISOU	3444	CD	GLN	D	426	9200	10055	8872	1543	4632	-1157	C
ATOM	3445	OE1	GLN	D	426	75.551	-11.640	-34.081	1.00	71.79		O
ANISOU	3445	OE1	GLN	D	426	8697	9713	8868	1449	4387	-1016	O
ATOM	3446	NE2	GLN	D	426	76.238	-13.210	-35.525	1.00	76.73		N
ANISOU	3446	NE2	GLN	D	426	9532	10324	9297	1733	4831	-1361	N
ATOM	3447	C	GLN	D	426	72.469	-8.361	-36.228	1.00	66.34		C
ANISOU	3447	C	GLN	D	426	8844	9421	6942	1033	4126	-613	C
ATOM	3448	O	GLN	D	426	72.648	-7.428	-35.444	1.00	64.20		O
ANISOU	3448	O	GLN	D	426	8361	9122	6912	930	4038	-414	O
ATOM	3449	N	ARG	D	427	71.267	-8.715	-36.673	1.00	65.24		N
ANISOU	3449	N	ARG	D	427	9004	9310	6472	1027	3906	-733	N
ATOM	3450	CA	ARG	D	427	70.051	-8.191	-36.069	1.00	61.55		C
ANISOU	3450	CA	ARG	D	427	8583	8831	5972	913	3523	-653	C
ATOM	3451	CB	ARG	D	427	68.814	-8.575	-36.886	1.00	62.29		C
ANISOU	3451	CB	ARG	D	427	9018	9000	5650	917	3336	-797	C
ATOM	3452	CG	ARG	D	427	68.261	-7.481	-37.795	1.00	64.44		C
ANISOU	3452	CG	ARG	D	427	9512	9421	5551	879	3327	-631	C
ATOM	3453	CD	ARG	D	427	66.962	-7.945	-38.473	1.00	65.91		C
ANISOU	3453	CD	ARG	D	427	10000	9683	5358	883	3067	-794	C
ATOM	3454	NE	ARG	D	427	65.923	-8.303	-37.500	1.00	66.69		N
ANISOU	3454	NE	ARG	D	427	10003	9701	5634	809	2687	-872	N
ATOM	3455	CZ	ARG	D	427	64.760	-7.663	-37.349	1.00	67.25		C
ANISOU	3455	CZ	ARG	D	427	10120	9829	5603	741	2381	-785	C
ATOM	3456	NH1	ARG	D	427	64.467	-6.631	-38.135	1.00	69.18		N
ANISOU	3456	NH1	ARG	D	427	10527	10201	5557	750	2385	-613	N
ATOM	3457	NH2	ARG	D	427	63.886	-8.059	-36.414	1.00	63.74		N
ANISOU	3457	NH2	ARG	D	427	9559	9311	5349	671	2080	-864	N
ATOM	3458	C	ARG	D	427	69.909	-8.721	-34.642	1.00	57.19		C
ANISOU	3458	C	ARG	D	427	7803	8128	5798	883	3273	-704	C

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Figure 18 (continued)

ATOM	3459	O	ARG	D	427	70.103	-9.914	-34.377	1.00	57.69		O
ANISOU	3459	O	ARG	D	427	7840	8092	5987	959	3269	-894	O
ATOM	3460	N	LEU	D	428	69.595	-7.815	-33.724	1.00	52.80		N
ANISOU	3460	N	LEU	D	428	7098	7547	5418	778	3076	-527	N
ATOM	3461	CA	LEU	D	428	69.144	-8.185	-32.399	1.00	48.04		C
ANISOU	3461	CA	LEU	D	428	6348	6827	5079	732	2792	-559	C
ATOM	3462	CB	LEU	D	428	68.918	-6.930	-31.545	1.00	45.72		C
ANISOU	3462	CB	LEU	D	428	5911	6527	4933	622	2636	-347	C
ATOM	3463	CG	LEU	D	428	70.023	-5.875	-31.426	1.00	45.49		C
ANISOU	3463	CG	LEU	D	428	5686	6505	5093	586	2834	-153	C
ATOM	3464	CD1	LEU	D	428	69.597	-4.802	-30.425	1.00	41.45		C
ANISOU	3464	CD1	LEU	D	428	5066	5948	4733	475	2612	4	C
ATOM	3465	CD2	LEU	D	428	71.353	-6.491	-31.016	1.00	45.37		C
ANISOU	3465	CD2	LEU	D	428	5422	6426	5391	651	3013	-200	C
ATOM	3466	C	LEU	D	428	67.846	-8.982	-32.525	1.00	46.17		C
ANISOU	3466	C	LEU	D	428	6321	6580	4642	717	2547	-732	C
ATOM	3467	O	LEU	D	428	67.099	-8.802	-33.495	1.00	46.00		O
ANISOU	3467	O	LEU	D	428	6533	6665	4279	710	2512	-766	O
ATOM	3468	N	ASN	D	429	67.587	-9.863	-31.556	1.00	43.68		N
ANISOU	3468	N	ASN	D	429	5922	6137	4538	708	2374	-834	N
ATOM	3469	CA	ASN	D	429	66.288	-10.534	-31.500	1.00	42.36		C
ANISOU	3469	CA	ASN	D	429	5910	5947	4237	654	2121	-976	C
ATOM	3470	CB	ASN	D	429	66.290	-11.755	-30.550	1.00	41.80		C
ANISOU	3470	CB	ASN	D	429	5766	5699	4415	662	2019	-1102	C
ATOM	3471	CG	ASN	D	429	66.394	-11.396	-29.062	1.00	40.02		C
ANISOU	3471	CG	ASN	D	429	5314	5396	4495	608	1878	-956	C
ATOM	3472	OD1	ASN	D	429	66.177	-10.270	-28.644	1.00	40.08		O
ANISOU	3472	OD1	ASN	D	429	5232	5473	4524	542	1798	-792	O
ATOM	3473	ND2	ASN	D	429	66.713	-12.395	-28.251	1.00	41.75		N
ANISOU	3473	ND2	ASN	D	429	5463	5458	4943	644	1840	-1024	N
ATOM	3474	C	ASN	D	429	65.147	-9.524	-31.230	1.00	39.73		C
ANISOU	3474	C	ASN	D	429	5590	5701	3805	548	1883	-849	C
ATOM	3475	O	ASN	D	429	65.412	-8.410	-30.755	1.00	37.87		O
ANISOU	3475	O	ASN	D	429	5221	5490	3678	516	1887	-655	O
ATOM	3476	N	PRO	D	430	63.894	-9.878	-31.600	1.00	39.17		N
ANISOU	3476	N	PRO	D	430	5679	5677	3529	497	1681	-965	N
ATOM	3477	CA	PRO	D	430	62.734	-8.984	-31.432	1.00	37.02		C
ANISOU	3477	CA	PRO	D	430	5410	5497	3159	420	1451	-863	C
ATOM	3478	CB	PRO	D	430	61.553	-9.913	-31.669	1.00	37.39		C
ANISOU	3478	CB	PRO	D	430	5577	5550	3079	364	1242	-1062	C
ATOM	3479	CG	PRO	D	430	62.081	-10.877	-32.687	1.00	40.79		C
ANISOU	3479	CG	PRO	D	430	6190	5964	3346	432	1404	-1251	C
ATOM	3480	CD	PRO	D	430	63.507	-11.136	-32.276	1.00	40.91		C
ANISOU	3480	CD	PRO	D	430	6084	5865	3594	513	1659	-1213	C
ATOM	3481	C	PRO	D	430	62.622	-8.261	-30.087	1.00	33.75		C
ANISOU	3481	C	PRO	D	430	4783	5029	3011	363	1338	-704	C
ATOM	3482	O	PRO	D	430	62.364	-7.059	-30.075	1.00	33.39		O
ANISOU	3482	O	PRO	D	430	4712	5054	2922	350	1292	-543	O
ATOM	3483	N	MSE	D	431	62.848	-8.958	-28.971	1.00	31.86		N
ANISOU	3483	N	MSE	D	431	4412	4658	3035	338	1298	-746	N
ATOM	3484	CA	MSE	D	431	62.743	-8.348	-27.632	1.00	28.73		C
ANISOU	3484	CA	MSE	D	431	3838	4212	2866	286	1187	-615	C
ATOM	3485	CB	MSE	D	431	62.750	-9.420	-26.522	1.00	27.66		C
ANISOU	3485	CB	MSE	D	431	3625	3936	2949	257	1113	-693	C
ATOM	3486	CG	MSE	D	431	61.493	-10.315	-26.470	1.00	27.35		C
ANISOU	3486	CG	MSE	D	431	3673	3880	2840	179	946	-835	C
ATOM	3487	SE	MSE	D	431	59.849	-9.332	-26.102	0.90	31.03		SE
ANISOU	3487	SE	MSE	D	431	4095	4475	3220	81	709	-763	SE
ATOM	3488	CE	MSE	D	431	60.279	-8.893	-24.268	1.00	22.81		C
ANISOU	3488	CE	MSE	D	431	2865	3332	2469	58	684	-614	C
ATOM	3489	C	MSE	D	431	63.805	-7.287	-27.358	1.00	28.34		C
ANISOU	3489	C	MSE	D	431	3663	4159	2948	313	1319	-441	C
ATOM	3490	O	MSE	D	431	63.527	-6.285	-26.719	1.00	26.80		O
ANISOU	3490	O	MSE	D	431	3388	3975	2822	271	1226	-314	O
ATOM	3491	N	HIS	D	432	65.023	-7.514	-27.840	1.00	30.47		N
ANISOU	3491	N	HIS	D	432	3907	4407	3264	380	1540	-445	N
ATOM	3492	CA	HIS	D	432	66.103	-6.525	-27.751	1.00	31.28		C
ANISOU	3492	CA	HIS	D	432	3877	4513	3497	388	1692	-287	C
ATOM	3493	CB	HIS	D	432	67.466	-7.225	-27.838	1.00	32.69		C
ANISOU	3493	CB	HIS	D	432	3946	4634	3841	464	1905	-335	C
ATOM	3494	CG	HIS	D	432	67.822	-7.950	-26.579	1.00	33.74		C

Figure 18 (continued)

ANISOU	3494	CG	HIS	D	432	3924	4646	4251	475	1799	-373	C
ATOM	3495	ND1	HIS	D	432	67.295	-9.184	-26.261	1.00	34.66		N
ANISOU	3495	ND1	HIS	D	432	4117	4682	4371	496	1690	-514	N
ATOM	3496	CE1	HIS	D	432	67.748	-9.561	-25.077	1.00	34.47		C
ANISOU	3496	CE1	HIS	D	432	3947	4553	4597	508	1603	-490	C
ATOM	3497	NE2	HIS	D	432	68.534	-8.608	-24.606	1.00	33.88		N
ANISOU	3497	NE2	HIS	D	432	3695	4499	4680	491	1632	-354	N
ATOM	3498	CD2	HIS	D	432	68.587	-7.583	-25.521	1.00	33.50		C
ANISOU	3498	CD2	HIS	D	432	3682	4555	4490	461	1760	-279	C
ATOM	3499	C	HIS	D	432	65.961	-5.388	-28.772	1.00	32.02		C
ANISOU	3499	C	HIS	D	432	4081	4712	3373	380	1782	-166	C
ATOM	3500	O	HIS	D	432	66.410	-4.265	-28.541	1.00	31.60		O
ANISOU	3500	O	HIS	D	432	3939	4650	3418	343	1831	-4	O
ATOM	3501	N	GLN	D	433	65.317	-5.703	-29.889	1.00	33.25		N
ANISOU	3501	N	GLN	D	433	4447	4957	3229	412	1790	-247	N
ATOM	3502	CA	GLN	D	433	64.893	-4.737	-30.897	1.00	34.81		C
ANISOU	3502	CA	GLN	D	433	4806	5264	3155	417	1816	-136	C
ATOM	3503	CB	GLN	D	433	64.124	-5.526	-31.969	1.00	37.14		C
ANISOU	3503	CB	GLN	D	433	5332	5652	3127	458	1766	-297	C
ATOM	3504	CG	GLN	D	433	64.229	-5.159	-33.425	1.00	40.17		C
ANISOU	3504	CG	GLN	D	433	5942	6157	3166	513	1917	-256	C
ATOM	3505	CD	GLN	D	433	65.636	-4.990	-33.941	1.00	42.73		C
ANISOU	3505	CD	GLN	D	433	6242	6477	3518	553	2269	-184	C
ATOM	3506	OE1	GLN	D	433	66.081	-3.868	-34.122	1.00	42.34		O
ANISOU	3506	OE1	GLN	D	433	6173	6441	3473	532	2393	22	O
ATOM	3507	NE2	GLN	D	433	66.331	-6.095	-34.227	1.00	44.78		N
ANISOU	3507	NE2	GLN	D	433	6506	6712	3797	612	2445	-355	N
ATOM	3508	C	GLN	D	433	63.985	-3.705	-30.188	1.00	33.00		C
ANISOU	3508	C	GLN	D	433	4532	5029	2979	363	1591	-12	C
ATOM	3509	O	GLN	D	433	64.238	-2.508	-30.244	1.00	33.66		O
ANISOU	3509	O	GLN	D	433	4602	5106	3081	347	1644	167	O
ATOM	3510	N	LEU	D	434	62.956	-4.188	-29.488	1.00	30.54		N
ANISOU	3510	N	LEU	D	434	4191	4705	2709	334	1355	-111	N
ATOM	3511	CA	LEU	D	434	62.019	-3.349	-28.723	1.00	28.54		C
ANISOU	3511	CA	LEU	D	434	3877	4447	2519	298	1147	-27	C
ATOM	3512	CB	LEU	D	434	60.860	-4.193	-28.170	1.00	26.57		C
ANISOU	3512	CB	LEU	D	434	3605	4209	2281	263	932	-173	C
ATOM	3513	CG	LEU	D	434	59.960	-4.841	-29.225	1.00	28.19		C
ANISOU	3513	CG	LEU	D	434	3969	4522	2219	278	838	-304	C
ATOM	3514	CD1	LEU	D	434	59.179	-6.004	-28.622	1.00	25.09		C
ANISOU	3514	CD1	LEU	D	434	3526	4099	1908	213	690	-476	C
ATOM	3515	CD2	LEU	D	434	59.035	-3.808	-29.879	1.00	26.55		C
ANISOU	3515	CD2	LEU	D	434	3849	4430	1809	316	706	-203	C
ATOM	3516	C	LEU	D	434	62.664	-2.581	-27.568	1.00	27.04		C
ANISOU	3516	C	LEU	D	434	3514	4152	2609	258	1167	91	C
ATOM	3517	O	LEU	D	434	62.423	-1.387	-27.390	1.00	25.53		O
ANISOU	3517	O	LEU	D	434	3318	3948	2436	251	1119	227	O
ATOM	3518	N	LEU	D	435	63.462	-3.285	-26.775	1.00	26.54		N
ANISOU	3518	N	LEU	D	435	3318	4005	2760	239	1220	31	N
ATOM	3519	CA	LEU	D	435	64.256	-2.688	-25.702	1.00	26.16		C
ANISOU	3519	CA	LEU	D	435	3103	3862	2975	200	1234	119	C
ATOM	3520	CB	LEU	D	435	65.092	-3.789	-25.043	1.00	25.47		C
ANISOU	3520	CB	LEU	D	435	2895	3705	3077	208	1276	27	C
ATOM	3521	CG	LEU	D	435	65.725	-3.556	-23.679	1.00	24.89		C
ANISOU	3521	CG	LEU	D	435	2647	3540	3271	171	1207	70	C
ATOM	3522	CD1	LEU	D	435	64.682	-3.442	-22.582	1.00	20.95		C
ANISOU	3522	CD1	LEU	D	435	2152	3019	2787	132	993	52	C
ATOM	3523	CD2	LEU	D	435	66.673	-4.719	-23.380	1.00	26.46		C
ANISOU	3523	CD2	LEU	D	435	2748	3683	3624	217	1274	-9	C
ATOM	3524	C	LEU	D	435	65.136	-1.488	-26.142	1.00	27.72		C
ANISOU	3524	C	LEU	D	435	3277	4043	3215	183	1392	280	C
ATOM	3525	O	LEU	D	435	65.062	-0.432	-25.523	1.00	27.64		O
ANISOU	3525	O	LEU	D	435	3216	3976	3311	140	1321	381	O
ATOM	3526	N	ARG	D	436	65.954	-1.635	-27.191	1.00	30.12		N
ANISOU	3526	N	ARG	D	436	3621	4384	3438	211	1617	302	N
ATOM	3527	CA	ARG	D	436	66.820	-0.532	-27.661	1.00	32.34		C
ANISOU	3527	CA	ARG	D	436	3877	4644	3766	175	1803	469	C
ATOM	3528	CB	ARG	D	436	67.825	-0.970	-28.749	1.00	34.74		C
ANISOU	3528	CB	ARG	D	436	4200	5003	3997	211	2095	466	C
ATOM	3529	CG	ARG	D	436	68.788	-2.119	-28.428	1.00	38.82		C
ANISOU	3529	CG	ARG	D	436	4552	5499	4700	249	2201	339	C

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Figure 18 (continued)

ATOM	3530	CD	ARG	D	436	69.651	-1.978	-27.166	1.00	45.47		C
ANISOU	3530	CD	ARG	D	436	5125	6244	5908	197	2148	361	C
ATOM	3531	NE	ARG	D	436	70.087	-3.302	-26.682	1.00	50.46		N
ANISOU	3531	NE	ARG	D	436	5647	6850	6677	269	2131	214	N
ATOM	3532	CZ	ARG	D	436	70.128	-3.695	-25.402	1.00	51.20		C
ANISOU	3532	CZ	ARG	D	436	5607	6868	6978	261	1938	168	C
ATOM	3533	NH1	ARG	D	436	69.776	-2.873	-24.420	1.00	50.06		N
ANISOU	3533	NH1	ARG	D	436	5415	6676	6930	180	1748	238	N
ATOM	3534	NH2	ARG	D	436	70.533	-4.928	-25.097	1.00	53.27		N
ANISOU	3534	NH2	ARG	D	436	5801	7095	7346	344	1938	52	N
ATOM	3535	C	ARG	D	436	66.028	0.663	-28.204	1.00	32.58		C
ANISOU	3535	C	ARG	D	436	4070	4692	3616	169	1749	610	C
ATOM	3536	O	ARG	D	436	66.482	1.801	-28.113	1.00	33.26		O
ANISOU	3536	O	ARG	D	436	4125	4705	3810	112	1815	763	O
ATOM	3537	N	HIS	D	437	64.874	0.396	-28.813	1.00	32.38		N
ANISOU	3537	N	HIS	D	437	4222	4757	3325	230	1627	560	N
ATOM	3538	CA	HIS	D	437	63.992	1.447	-29.316	1.00	32.23		C
ANISOU	3538	CA	HIS	D	437	4358	4760	3127	257	1533	689	C
ATOM	3539	CB	HIS	D	437	62.776	0.835	-29.996	1.00	32.33		C
ANISOU	3539	CB	HIS	D	437	4528	4902	2856	329	1377	588	C
ATOM	3540	CG	HIS	D	437	61.792	1.845	-30.505	1.00	32.58		C
ANISOU	3540	CG	HIS	D	437	4705	4969	2705	384	1241	716	C
ATOM	3541	ND1	HIS	D	437	62.005	2.587	-31.652	1.00	33.44		N
ANISOU	3541	ND1	HIS	D	437	5004	5109	2594	423	1364	882	N
ATOM	3542	CE1	HIS	D	437	60.975	3.389	-31.850	1.00	32.84		C
ANISOU	3542	CE1	HIS	D	437	5028	5050	2399	489	1178	978	C
ATOM	3543	NE2	HIS	D	437	60.100	3.192	-30.877	1.00	31.03		N
ANISOU	3543	NE2	HIS	D	437	4663	4812	2316	493	955	869	N
ATOM	3544	CD2	HIS	D	437	60.589	2.233	-30.023	1.00	28.67		C
ANISOU	3544	CD2	HIS	D	437	4193	4482	2217	419	996	711	C
ATOM	3545	C	HIS	D	437	63.529	2.367	-28.191	1.00	31.00		C
ANISOU	3545	C	HIS	D	437	4111	4501	3166	224	1360	750	C
ATOM	3546	O	HIS	D	437	63.642	3.606	-28.303	1.00	31.79		O
ANISOU	3546	O	HIS	D	437	4259	4524	3297	208	1393	917	O
ATOM	3547	N	PHE	D	438	63.015	1.763	-27.119	1.00	28.21		N
ANISOU	3547	N	PHE	D	438	3643	4136	2938	213	1191	616	N
ATOM	3548	CA	PHE	D	438	62.438	2.523	-26.020	1.00	27.04		C
ANISOU	3548	CA	PHE	D	438	3427	3908	2940	198	1026	640	C
ATOM	3549	CB	PHE	D	438	61.377	1.704	-25.284	1.00	24.52		C
ANISOU	3549	CB	PHE	D	438	3057	3643	2616	215	836	490	C
ATOM	3550	CG	PHE	D	438	60.176	1.379	-26.140	1.00	23.90		C
ANISOU	3550	CG	PHE	D	438	3093	3692	2294	282	727	446	C
ATOM	3551	CD1	PHE	D	438	59.391	2.399	-26.676	1.00	23.65		C
ANISOU	3551	CD1	PHE	D	438	3161	3687	2138	351	643	555	C
ATOM	3552	CE1	PHE	D	438	58.280	2.110	-27.459	1.00	24.54		C
ANISOU	3552	CE1	PHE	D	438	3360	3932	2032	417	509	512	C
ATOM	3553	CZ	PHE	D	438	57.941	0.772	-27.715	1.00	25.28		C
ANISOU	3553	CZ	PHE	D	438	3448	4125	2034	392	465	343	C
ATOM	3554	CE2	PHE	D	438	58.734	-0.261	-27.196	1.00	23.25		C
ANISOU	3554	CE2	PHE	D	438	3113	3818	1903	320	569	233	C
ATOM	3555	CD2	PHE	D	438	59.836	0.052	-26.416	1.00	22.04		C
ANISOU	3555	CD2	PHE	D	438	2868	3543	1964	276	694	292	C
ATOM	3556	C	PHE	D	438	63.462	3.158	-25.072	1.00	27.33		C
ANISOU	3556	C	PHE	D	438	3326	3806	3251	116	1082	694	C
ATOM	3557	O	PHE	D	438	63.182	4.188	-24.467	1.00	27.54		O
ANISOU	3557	O	PHE	D	438	3351	3740	3375	103	998	758	O
ATOM	3558	N	GLN	D	439	64.639	2.551	-24.975	1.00	27.93		N
ANISOU	3558	N	GLN	D	439	3289	3867	3455	69	1218	661	N
ATOM	3559	CA	GLN	D	439	65.790	3.129	-24.318	1.00	28.89		C
ANISOU	3559	CA	GLN	D	439	3266	3877	3835	-18	1287	717	C
ATOM	3560	CB	GLN	D	439	66.920	2.062	-24.200	1.00	29.69		C
ANISOU	3560	CB	GLN	D	439	3213	4002	4067	-32	1401	637	C
ATOM	3561	CG	GLN	D	439	66.621	0.950	-23.141	1.00	26.15		C
ANISOU	3561	CG	GLN	D	439	2686	3563	3686	-6	1239	487	C
ATOM	3562	CD	GLN	D	439	67.662	-0.160	-23.094	1.00	28.79		C
ANISOU	3562	CD	GLN	D	439	2888	3909	4142	14	1338	414	C
ATOM	3563	OE1	GLN	D	439	68.317	-0.497	-24.104	1.00	32.54		O
ANISOU	3563	OE1	GLN	D	439	3363	4430	4572	44	1542	425	O
ATOM	3564	NE2	GLN	D	439	67.822	-0.748	-21.912	1.00	28.30		N
ANISOU	3564	NE2	GLN	D	439	2720	3805	4230	12	1198	340	N
ATOM	3565	C	GLN	D	439	66.284	4.385	-25.045	1.00	31.94		C

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Figure 18 (continued)

ANISOU	3565	C	GLN	D	439	3715	4193	4229	-65	1434	895	C
ATOM	3566	O	GLN	D	439	66.781	5.320	-24.410	1.00	32.63		O
ANISOU	3566	O	GLN	D	439	3727	4152	4519	-149	1421	959	O
ATOM	3567	N	LYS	D	440	66.162	4.415	-26.374	1.00	34.31		N
ANISOU	3567	N	LYS	D	440	4167	4567	4301	-18	1575	976	N
ATOM	3568	CA	LYS	D	440	66.529	5.601	-27.135	1.00	37.03		C
ANISOU	3568	CA	LYS	D	440	4613	4841	4618	-60	1725	1173	C
ATOM	3569	CB	LYS	D	440	66.617	5.319	-28.642	1.00	39.69		C
ANISOU	3569	CB	LYS	D	440	5117	5293	4672	-5	1921	1245	C
ATOM	3570	CG	LYS	D	440	67.882	4.548	-29.032	1.00	43.01		C
ANISOU	3570	CG	LYS	D	440	5411	5768	5163	-42	2176	1205	C
ATOM	3571	CD	LYS	D	440	68.388	4.877	-30.420	1.00	49.43		C
ANISOU	3571	CD	LYS	D	440	6372	6631	5777	-42	2461	1354	C
ATOM	3572	CE	LYS	D	440	69.683	4.104	-30.681	1.00	52.40		C
ANISOU	3572	CE	LYS	D	440	6580	7061	6271	-70	2732	1294	C
ATOM	3573	NZ	LYS	D	440	70.294	4.407	-32.006	1.00	56.62		N
ANISOU	3573	NZ	LYS	D	440	7243	7651	6617	-78	3064	1439	N
ATOM	3574	C	LYS	D	440	65.556	6.741	-26.849	1.00	36.89		C
ANISOU	3574	C	LYS	D	440	4715	4726	4575	-33	1555	1259	C
ATOM	3575	O	LYS	D	440	65.993	7.846	-26.543	1.00	37.86		O
ANISOU	3575	O	LYS	D	440	4824	4692	4869	-113	1589	1372	O
ATOM	3576	N	ASP	D	441	64.250	6.442	-26.917	1.00	35.37		N
ANISOU	3576	N	ASP	D	441	4626	4620	4192	79	1370	1193	N
ATOM	3577	CA	ASP	D	441	63.183	7.396	-26.655	1.00	34.86		C
ANISOU	3577	CA	ASP	D	441	4660	4486	4100	145	1196	1252	C
ATOM	3578	CB	ASP	D	441	62.914	8.221	-27.913	1.00	37.92		C
ANISOU	3578	CB	ASP	D	441	5267	4866	4275	207	1267	1450	C
ATOM	3579	CG	ASP	D	441	61.804	9.261	-27.730	1.00	40.30		C
ANISOU	3579	CG	ASP	D	441	5676	5081	4554	307	1084	1529	C
ATOM	3580	OD1	ASP	D	441	61.425	9.618	-26.576	1.00	39.22		O
ANISOU	3580	OD1	ASP	D	441	5443	4850	4609	306	947	1449	O
ATOM	3581	OD2	ASP	D	441	61.301	9.721	-28.784	1.00	45.16		O
ANISOU	3581	OD2	ASP	D	441	6486	5729	4944	401	1080	1674	O
ATOM	3582	C	ASP	D	441	61.900	6.717	-26.136	1.00	32.31		C
ANISOU	3582	C	ASP	D	441	4311	4270	3697	235	971	1096	C
ATOM	3583	O	ASP	D	441	61.199	6.013	-26.871	1.00	32.02		O
ANISOU	3583	O	ASP	D	441	4348	4382	3436	310	920	1048	O
ATOM	3584	N	ALA	D	442	61.576	6.945	-24.867	1.00	29.74		N
ANISOU	3584	N	ALA	D	442	3881	3867	3552	220	839	1014	N
ATOM	3585	CA	ALA	D	442	60.377	6.300	-24.287	1.00	27.57		C
ANISOU	3585	CA	ALA	D	442	3558	3693	3225	289	658	871	C
ATOM	3586	CB	ALA	D	442	60.695	5.663	-22.929	1.00	24.90		C
ANISOU	3586	CB	ALA	D	442	3063	3329	3068	217	615	728	C
ATOM	3587	C	ALA	D	442	59.104	7.154	-24.217	1.00	27.63		C
ANISOU	3587	C	ALA	D	442	3630	3685	3182	404	506	909	C
ATOM	3588	O	ALA	D	442	58.109	6.710	-23.648	1.00	27.53		O
ANISOU	3588	O	ALA	D	442	3547	3753	3160	452	372	793	O
ATOM	3589	N	LYS	D	443	59.122	8.344	-24.818	1.00	29.38		N
ANISOU	3589	N	LYS	D	443	3983	3804	3377	452	535	1077	N
ATOM	3590	CA	LYS	D	443	57.985	9.293	-24.817	1.00	30.50		C
ANISOU	3590	CA	LYS	D	443	4196	3903	3492	591	395	1137	C
ATOM	3591	CB	LYS	D	443	58.290	10.528	-25.671	1.00	33.67		C
ANISOU	3591	CB	LYS	D	443	4779	4162	3853	630	465	1361	C
ATOM	3592	CG	LYS	D	443	59.229	11.526	-25.065	1.00	36.65		C
ANISOU	3592	CG	LYS	D	443	5167	4298	4461	529	567	1432	C
ATOM	3593	CD	LYS	D	443	59.650	12.550	-26.133	1.00	45.40		C
ANISOU	3593	CD	LYS	D	443	6473	5274	5503	538	680	1678	C
ATOM	3594	CE	LYS	D	443	60.962	13.265	-25.747	1.00	47.82		C
ANISOU	3594	CE	LYS	D	443	6766	5359	6046	363	843	1750	C
ATOM	3595	NZ	LYS	D	443	61.530	14.054	-26.889	1.00	50.87		N
ANISOU	3595	NZ	LYS	D	443	7337	5634	6356	332	1010	2003	N
ATOM	3596	C	LYS	D	443	56.646	8.725	-25.307	1.00	30.23		C
ANISOU	3596	C	LYS	D	443	4154	4060	3271	716	235	1077	C
ATOM	3597	O	LYS	D	443	55.631	8.934	-24.669	1.00	29.75		O
ANISOU	3597	O	LYS	D	443	4018	4015	3270	802	100	1008	O
ATOM	3598	N	VAL	D	444	56.638	8.041	-26.453	1.00	30.26		N
ANISOU	3598	N	VAL	D	444	4234	4210	3051	726	252	1098	N
ATOM	3599	CA	VAL	D	444	55.407	7.466	-26.998	1.00	29.10		C
ANISOU	3599	CA	VAL	D	444	4078	4254	2725	825	78	1029	C
ATOM	3600	CB	VAL	D	444	55.585	6.963	-28.484	1.00	31.06		C
ANISOU	3600	CB	VAL	D	444	4485	4636	2681	840	109	1084	C

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Figure 18 (continued)

ATOM	3601	CG1	VAL	D	444	54.288	6.421	-29.035	1.00	29.96		C
ANISOU	3601	CG1	VAL	D	444	4330	4691	2363	934	-109	999	C
ATOM	3602	CG2	VAL	D	444	56.115	8.078	-29.394	1.00	30.95		C
ANISOU	3602	CG2	VAL	D	444	4684	4520	2557	891	208	1324	C
ATOM	3603	C	VAL	D	444	54.875	6.360	-26.079	1.00	27.62		C
ANISOU	3603	C	VAL	D	444	3699	4166	2629	768	3	815	C
ATOM	3604	O	VAL	D	444	53.680	6.285	-25.819	1.00	27.97		O
ANISOU	3604	O	VAL	D	444	3650	4300	2679	844	-156	743	O
ATOM	3605	N	LEU	D	445	55.788	5.542	-25.567	1.00	25.93		N
ANISOU	3605	N	LEU	D	445	3422	3927	2503	636	126	725	N
ATOM	3606	CA	LEU	D	445	55.501	4.447	-24.647	1.00	23.92		C
ANISOU	3606	CA	LEU	D	445	3016	3731	2341	563	89	546	C
ATOM	3607	CB	LEU	D	445	56.804	3.645	-24.334	1.00	21.91		C
ANISOU	3607	CB	LEU	D	445	2738	3423	2166	439	243	496	C
ATOM	3608	CG	LEU	D	445	56.751	2.511	-23.313	1.00	20.89		C
ANISOU	3608	CG	LEU	D	445	2483	3313	2143	358	226	342	C
ATOM	3609	CD1	LEU	D	445	55.801	1.381	-23.778	1.00	20.54		C
ANISOU	3609	CD1	LEU	D	445	2418	3414	1973	353	132	220	C
ATOM	3610	CD2	LEU	D	445	58.144	1.953	-22.982	1.00	18.80		C
ANISOU	3610	CD2	LEU	D	445	2194	2968	1982	270	365	327	C
ATOM	3611	C	LEU	D	445	54.862	4.932	-23.354	1.00	23.22		C
ANISOU	3611	C	LEU	D	445	2811	3585	2427	587	19	499	C
ATOM	3612	O	LEU	D	445	53.820	4.424	-22.965	1.00	24.32		O
ANISOU	3612	O	LEU	D	445	2843	3827	2571	605	-83	395	O
ATOM	3613	N	PHE	D	446	55.525	5.867	-22.678	1.00	22.66		N
ANISOU	3613	N	PHE	D	446	2760	3351	2500	576	85	565	N
ATOM	3614	CA	PHE	D	446	55.043	6.489	-21.438	1.00	21.33		C
ANISOU	3614	CA	PHE	D	446	2518	3103	2482	609	39	517	C
ATOM	3615	CB	PHE	D	446	56.138	7.400	-20.838	1.00	20.56		C
ANISOU	3615	CB	PHE	D	446	2473	2806	2534	555	124	577	C
ATOM	3616	CG	PHE	D	446	57.229	6.646	-20.076	1.00	19.42		C
ANISOU	3616	CG	PHE	D	446	2266	2630	2484	414	198	502	C
ATOM	3617	CD1	PHE	D	446	57.332	5.253	-20.143	1.00	17.40		C
ANISOU	3617	CD1	PHE	D	446	1945	2496	2168	352	213	418	C
ATOM	3618	CE1	PHE	D	446	58.339	4.559	-19.453	1.00	20.22		C
ANISOU	3618	CE1	PHE	D	446	2246	2816	2619	249	265	363	C
ATOM	3619	CZ	PHE	D	446	59.301	5.271	-18.691	1.00	19.91		C
ANISOU	3619	CZ	PHE	D	446	2198	2633	2733	192	291	386	C
ATOM	3620	CE2	PHE	D	446	59.217	6.678	-18.646	1.00	19.69		C
ANISOU	3620	CE2	PHE	D	446	2236	2480	2765	229	279	458	C
ATOM	3621	CD2	PHE	D	446	58.186	7.346	-19.330	1.00	18.60		C
ANISOU	3621	CD2	PHE	D	446	2170	2362	2535	345	240	519	C
ATOM	3622	C	PHE	D	446	53.719	7.274	-21.629	1.00	22.61		C
ANISOU	3622	C	PHE	D	446	2672	3302	2617	769	-82	546	C
ATOM	3623	O	PHE	D	446	52.788	7.129	-20.834	1.00	21.26		O
ANISOU	3623	O	PHE	D	446	2384	3189	2505	810	-143	444	O
ATOM	3624	N	GLN	D	447	53.634	8.092	-22.683	1.00	24.31		N
ANISOU	3624	N	GLN	D	447	3009	3485	2743	868	-111	691	N
ATOM	3625	CA	GLN	D	447	52.434	8.923	-22.930	1.00	26.58		C
ANISOU	3625	CA	GLN	D	447	3294	3792	3015	1051	-242	741	C
ATOM	3626	CB	GLN	D	447	52.727	10.052	-23.948	1.00	28.74		C
ANISOU	3626	CB	GLN	D	447	3759	3946	3215	1147	-240	948	C
ATOM	3627	CG	GLN	D	447	53.822	11.037	-23.521	1.00	28.97		C
ANISOU	3627	CG	GLN	D	447	3898	3721	3387	1085	-109	1039	C
ATOM	3628	CD	GLN	D	447	53.417	11.958	-22.367	1.00	31.94		C
ANISOU	3628	CD	GLN	D	447	4237	3939	3959	1160	-136	984	C
ATOM	3629	OE1	GLN	D	447	52.467	11.685	-21.632	1.00	31.98		O
ANISOU	3629	OE1	GLN	D	447	4103	4036	4012	1229	-210	849	O
ATOM	3630	NE2	GLN	D	447	54.147	13.060	-22.209	1.00	32.72		N
ANISOU	3630	NE2	GLN	D	447	4465	3791	4174	1139	-64	1083	N
ATOM	3631	C	GLN	D	447	51.172	8.138	-23.353	1.00	27.31		C
ANISOU	3631	C	GLN	D	447	3261	4112	3003	1115	-388	657	C
ATOM	3632	O	GLN	D	447	50.059	8.620	-23.205	1.00	28.77		O
ANISOU	3632	O	GLN	D	447	3359	4341	3230	1259	-502	646	O
ATOM	3633	N	ASN	D	448	51.353	6.919	-23.839	1.00	27.07		N
ANISOU	3633	N	ASN	D	448	3210	4218	2855	1005	-385	585	N
ATOM	3634	CA	ASN	D	448	50.262	6.088	-24.336	1.00	27.76		C
ANISOU	3634	CA	ASN	D	448	3189	4515	2844	1027	-531	492	C
ATOM	3635	CB	ASN	D	448	50.574	5.642	-25.776	1.00	28.82		C
ANISOU	3635	CB	ASN	D	448	3470	4742	2740	1014	-568	545	C
ATOM	3636	CG	ASN	D	448	50.346	6.749	-26.784	1.00	28.94		C

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Figure 18 (continued)

ANISOU	3636	CG	ASN	D	448	3635	4738	2623	1181	-656	726	C
ATOM	3637	OD1	ASN	D	448	49.218	7.083	-27.082	1.00	31.76		O
ANISOU	3637	OD1	ASN	D	448	3924	5192	2950	1320	-840	738	O
ATOM	3638	ND2	ASN	D	448	51.414	7.321	-27.300	1.00	26.91		N
ANISOU	3638	ND2	ASN	D	448	3577	4353	2295	1168	-523	876	N
ATOM	3639	C	ASN	D	448	49.972	4.866	-23.458	1.00	27.61		C
ANISOU	3639	C	ASN	D	448	3000	4579	2912	892	-508	312	C
ATOM	3640	O	ASN	D	448	49.042	4.091	-23.740	1.00	28.34		O
ANISOU	3640	O	ASN	D	448	2973	4834	2960	874	-623	214	O
ATOM	3641	N	TRP	D	449	50.740	4.720	-22.378	1.00	26.08		N
ANISOU	3641	N	TRP	D	449	2795	4267	2845	793	-369	274	N
ATOM	3642	CA	TRP	D	449	50.617	3.569	-21.487	1.00	26.10		C
ANISOU	3642	CA	TRP	D	449	2678	4318	2922	661	-326	133	C
ATOM	3643	CB	TRP	D	449	51.844	3.464	-20.552	1.00	22.77		C
ANISOU	3643	CB	TRP	D	449	2311	3748	2592	562	-183	131	C
ATOM	3644	CG	TRP	D	449	51.796	2.288	-19.626	1.00	22.86		C
ANISOU	3644	CG	TRP	D	449	2234	3788	2662	436	-140	15	C
ATOM	3645	CD1	TRP	D	449	51.346	2.273	-18.330	1.00	19.13		C
ANISOU	3645	CD1	TRP	D	449	1674	3305	2290	418	-109	-46	C
ATOM	3646	NE1	TRP	D	449	51.479	1.021	-17.799	1.00	18.46		N
ANISOU	3646	NE1	TRP	D	449	1555	3239	2218	288	-65	-120	N
ATOM	3647	CE2	TRP	D	449	52.025	0.180	-18.738	1.00	19.96		C
ANISOU	3647	CE2	TRP	D	449	1806	3444	2335	226	-70	-126	C
ATOM	3648	CD2	TRP	D	449	52.254	0.945	-19.905	1.00	22.60		C
ANISOU	3648	CD2	TRP	D	449	2219	3784	2585	316	-109	-47	C
ATOM	3649	CE3	TRP	D	449	52.810	0.315	-21.036	1.00	22.07		C
ANISOU	3649	CE3	TRP	D	449	2239	3740	2407	283	-102	-46	C
ATOM	3650	CZ3	TRP	D	449	53.121	-1.038	-20.960	1.00	20.32		C
ANISOU	3650	CZ3	TRP	D	449	2018	3518	2186	172	-64	-135	C
ATOM	3651	CH2	TRP	D	449	52.904	-1.767	-19.775	1.00	19.50		C
ANISOU	3651	CH2	TRP	D	449	1836	3385	2187	86	-36	-201	C
ATOM	3652	CZ2	TRP	D	449	52.368	-1.173	-18.652	1.00	19.23		C
ANISOU	3652	CZ2	TRP	D	449	1723	3343	2240	108	-34	-191	C
ATOM	3653	C	TRP	D	449	49.301	3.488	-20.696	1.00	26.80		C
ANISOU	3653	C	TRP	D	449	2575	4500	3107	694	-385	42	C
ATOM	3654	O	TRP	D	449	48.820	2.383	-20.387	1.00	28.17		O
ANISOU	3654	O	TRP	D	449	2636	4768	3300	585	-389	-67	O
ATOM	3655	N	GLY	D	450	48.724	4.626	-20.338	1.00	27.01		N
ANISOU	3655	N	GLY	D	450	2562	4494	3209	839	-413	84	N
ATOM	3656	CA	GLY	D	450	47.550	4.564	-19.465	1.00	26.85		C
ANISOU	3656	CA	GLY	D	450	2343	4561	3298	873	-423	-10	C
ATOM	3657	C	GLY	D	450	47.850	5.155	-18.104	1.00	26.36		C
ANISOU	3657	C	GLY	D	450	2299	4371	3347	887	-298	-33	C
ATOM	3658	O	GLY	D	450	48.936	4.913	-17.524	1.00	24.35		O
ANISOU	3658	O	GLY	D	450	2156	4003	3095	777	-201	-34	O
ATOM	3659	N	ILE	D	451	46.877	5.919	-17.597	1.00	26.86		N
ANISOU	3659	N	ILE	D	451	2250	4457	3500	1030	-308	-60	N
ATOM	3660	CA	ILE	D	451	47.001	6.664	-16.348	1.00	26.37		C
ANISOU	3660	CA	ILE	D	451	2221	4274	3526	1082	-198	-98	C
ATOM	3661	CB	ILE	D	451	46.969	8.237	-16.581	1.00	27.89		C
ANISOU	3661	CB	ILE	D	451	2507	4318	3770	1289	-238	-20	C
ATOM	3662	CG1	ILE	D	451	47.657	9.008	-15.440	1.00	25.93		C
ANISOU	3662	CG1	ILE	D	451	2392	3875	3584	1293	-129	-57	C
ATOM	3663	CD1	ILE	D	451	49.176	9.125	-15.584	1.00	21.81		C
ANISOU	3663	CD1	ILE	D	451	2069	3187	3030	1167	-106	13	C
ATOM	3664	CG2	ILE	D	451	45.544	8.748	-16.801	1.00	27.64		C
ANISOU	3664	CG2	ILE	D	451	2298	4397	3809	1490	-315	-36	C
ATOM	3665	C	ILE	D	451	45.874	6.181	-15.432	1.00	27.18		C
ANISOU	3665	C	ILE	D	451	2116	4514	3696	1077	-132	-215	C
ATOM	3666	O	ILE	D	451	44.791	5.803	-15.904	1.00	28.28		O
ANISOU	3666	O	ILE	D	451	2060	4822	3862	1110	-204	-243	O
ATOM	3667	N	GLU	D	452	46.130	6.140	-14.131	1.00	26.29		N
ANISOU	3667	N	GLU	D	452	2042	4341	3606	1022	4	-283	N
ATOM	3668	CA	GLU	D	452	45.061	5.692	-13.194	1.00	27.65		C
ANISOU	3668	CA	GLU	D	452	2028	4647	3830	1011	109	-385	C
ATOM	3669	CB	GLU	D	452	45.256	4.198	-12.798	1.00	26.19		C
ANISOU	3669	CB	GLU	D	452	1818	4538	3597	781	176	-418	C
ATOM	3670	CG	GLU	D	452	46.647	3.878	-12.149	1.00	24.41		C
ANISOU	3670	CG	GLU	D	452	1815	4166	3293	656	231	-398	C
ATOM	3671	CD	GLU	D	452	46.830	2.423	-11.743	1.00	24.76		C
ANISOU	3671	CD	GLU	D	452	1852	4259	3296	455	291	-414	C

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Figure 18 (continued)

ATOM	3672	OE1	GLU	D	452	45.888	1.618	-11.901	1.00	31.91	
ANISOU	3672	OE1	GLU	D	452	2587	5300	4236	384	309	-448
ATOM	3673	OE2	GLU	D	452	47.908	2.057	-11.253	1.00	23.36	
ANISOU	3673	OE2	GLU	D	452	1834	3978	3064	366	315	-392
ATOM	3674	C	GLU	D	452	45.042	6.574	-11.949	1.00	27.37	
ANISOU	3674	C	GLU	D	452	2061	4513	3825	1111	234	-449
ATOM	3675	O	GLU	D	452	46.052	7.169	-11.604	1.00	26.55	
ANISOU	3675	O	GLU	D	452	2164	4236	3690	1111	242	-433
ATOM	3676	N	AHIS	D	453	43.898	6.648	-11.278	0.50	29.37	
ANISOU	3676	N	AHIS	D	453	2137	4881	4142	1189	336	-532
ATOM	3677	N	BHIS	D	453	43.885	6.656	-11.308	0.50	29.06	
ANISOU	3677	N	BHIS	D	453	2095	4843	4104	1192	332	-531
ATOM	3678	CA	AHIS	D	453	43.836	7.247	-9.942	0.50	30.28	
ANISOU	3678	CA	AHIS	D	453	2326	4928	4250	1259	493	-622
ATOM	3679	CA	BHIS	D	453	43.774	7.182	-9.955	0.50	29.69	
ANISOU	3679	CA	BHIS	D	453	2237	4868	4178	1254	495	-623
ATOM	3680	CB	AHIS	D	453	42.418	7.692	-9.572	0.50	32.76	
ANISOU	3680	CB	AHIS	D	453	2411	5367	4670	1432	592	-703
ATOM	3681	CB	BHIS	D	453	42.302	7.269	-9.541	0.50	31.70	
ANISOU	3681	CB	BHIS	D	453	2229	5287	4527	1371	609	-705
ATOM	3682	CG	AHIS	D	453	42.349	8.492	-8.302	0.50	34.48	
ANISOU	3682	CG	AHIS	D	453	2734	5498	4869	1546	757	-810
ATOM	3683	CG	BHIS	D	453	41.496	8.296	-10.288	0.50	33.06	
ANISOU	3683	CG	BHIS	D	453	2263	5469	4828	1622	512	-693
ATOM	3684	ND1AHIS	D	453	41.699	8.043	-7.170	0.50	37.07		
ANISOU	3684	ND1AHIS	D	453	2974	5946	5164	1508	969	-904	
ATOM	3685	ND1BHIS	D	453	40.830	8.013	-11.463	0.50	33.68		
ANISOU	3685	ND1BHIS	D	453	2135	5683	4978	1653	357	-636	
ATOM	3686	CE1AHIS	D	453	41.803	8.950	-6.214	0.50	37.81		
ANISOU	3686	CE1AHIS	D	453	3219	5928	5219	1638	1082	-1002	
ATOM	3687	CE1BHIS	D	453	40.176	9.092	-11.868	0.50	34.95		
ANISOU	3687	CE1BHIS	D	453	2210	5823	5246	1913	285	-627	
ATOM	3688	NE2AHIS	D	453	42.505	9.967	-6.682	0.50	37.40		
ANISOU	3688	NE2AHIS	D	453	3344	5671	5195	1747	942	-976	
ATOM	3689	NE2BHIS	D	453	40.397	10.065	-11.001	0.50	33.44		
ANISOU	3689	NE2BHIS	D	453	2168	5472	5067	2049	403	-686	
ATOM	3690	CD2AHIS	D	453	42.863	9.704	-7.982	0.50	34.66		
ANISOU	3690	CD2AHIS	D	453	2960	5318	4892	1690	748	-845	
ATOM	3691	CD2BHIS	D	453	41.208	9.589	-9.998	0.50	33.77		
ANISOU	3691	CD2BHIS	D	453	2392	5449	4990	1865	542	-736	
ATOM	3692	C	AHIS	D	453	44.368	6.267	-8.900	0.50	29.31	
ANISOU	3692	C	AHIS	D	453	2300	4818	4018	1058	615	-655
ATOM	3693	C	BHIS	D	453	44.521	6.231	-8.998	0.50	28.61	
ANISOU	3693	C	BHIS	D	453	2231	4715	3923	1044	596	-643
ATOM	3694	O	AHIS	D	453	44.077	5.067	-8.933	0.50	29.41	
ANISOU	3694	O	AHIS	D	453	2203	4957	4013	899	649	-643
ATOM	3695	O	BHIS	D	453	44.536	5.005	-9.196	0.50	27.91	
ANISOU	3695	O	BHIS	D	453	2079	4722	3805	868	596	-612
ATOM	3696	N	ILE	D	454	45.164	6.783	-7.978	1.00	28.76	
ANISOU	3696	N	ILE	D	454	2449	4605	3874	1063	667	-695
ATOM	3697	CA	ILE	D	454	45.777	5.937	-6.964	1.00	28.13	
ANISOU	3697	CA	ILE	D	454	2498	4524	3669	893	751	-712
ATOM	3698	CB	ILE	D	454	47.332	5.999	-7.018	1.00	26.26	
ANISOU	3698	CB	ILE	D	454	2490	4116	3371	803	634	-662
ATOM	3699	CG1	ILE	D	454	47.890	7.250	-6.344	1.00	24.68	
ANISOU	3699	CG1	ILE	D	454	2478	3746	3152	906	625	-733
ATOM	3700	CD1	ILE	D	454	49.392	7.303	-6.398	1.00	25.66	
ANISOU	3700	CD1	ILE	D	454	2783	3717	3249	801	503	-689
ATOM	3701	CG2	ILE	D	454	47.826	5.855	-8.457	1.00	23.15	
ANISOU	3701	CG2	ILE	D	454	2062	3692	3042	772	483	-559
ATOM	3702	C	ILE	D	454	45.222	6.230	-5.576	1.00	30.71	
ANISOU	3702	C	ILE	D	454	2860	4884	3925	953	938	-822
ATOM	3703	O	ILE	D	454	44.661	7.306	-5.345	1.00	32.07	
ANISOU	3703	O	ILE	D	454	3011	5025	4150	1141	991	-901
ATOM	3704	N	ASP	D	455	45.333	5.234	-4.691	1.00	32.26	
ANISOU	3704	N	ASP	D	455	3111	5146	4000	800	1047	-821
ATOM	3705	CA	ASP	D	455	45.106	5.380	-3.250	1.00	34.47	
ANISOU	3705	CA	ASP	D	455	3507	5446	4142	822	1227	-911
ATOM	3706	CB	ASP	D	455	44.729	4.030	-2.628	1.00	35.56	
ANISOU	3706	CB	ASP	D	455	3602	5719	4189	648	1374	-865
ATOM	3707	CG	ASP	D	455	43.446	3.430	-3.228	1.00	39.76	

Figure 18 (continued)

ANISOU	3707	CG	ASP	D	455	3816	6426	4866	618	1465	-844	C
ATOM	3708	OD1	ASP	D	455	42.493	4.181	-3.532	1.00	42.46		O
ANISOU	3708	OD1	ASP	D	455	3961	6837	5333	779	1511	-908	O
ATOM	3709	OD2	ASP	D	455	43.394	2.189	-3.401	1.00	44.22		O
ANISOU	3709	OD2	ASP	D	455	4320	7051	5432	431	1479	-765	O
ATOM	3710	C	ASP	D	455	46.372	5.899	-2.568	1.00	34.03		C
ANISOU	3710	C	ASP	D	455	3751	5221	3959	814	1139	-945	C
ATOM	3711	O	ASP	D	455	47.494	5.599	-2.992	1.00	31.59		O
ANISOU	3711	O	ASP	D	455	3543	4815	3646	712	975	-870	O
ATOM	3712	N	ASN	D	456	46.191	6.679	-1.505	1.00	36.31		N
ANISOU	3712	N	ASN	D	456	4174	5475	4146	921	1248	-1069	N
ATOM	3713	CA	ASN	D	456	47.306	7.068	-0.637	1.00	36.72		C
ANISOU	3713	CA	ASN	D	456	4519	5389	4046	891	1168	-1127	C
ATOM	3714	CB	ASN	D	456	46.871	8.172	0.341	1.00	39.40		C
ANISOU	3714	CB	ASN	D	456	4986	5683	4301	1056	1292	-1302	C
ATOM	3715	CG	ASN	D	456	46.475	9.447	-0.357	1.00	40.47		C
ANISOU	3715	CG	ASN	D	456	5043	5708	4625	1250	1255	-1367	C
ATOM	3716	OD1	ASN	D	456	47.200	9.934	-1.227	1.00	42.70		O
ANISOU	3716	OD1	ASN	D	456	5348	5842	5034	1246	1067	-1312	O
ATOM	3717	ND2	ASN	D	456	45.322	9.995	0.010	1.00	40.50		N
ANISOU	3717	ND2	ASN	D	456	4954	5779	4655	1427	1445	-1475	N
ATOM	3718	C	ASN	D	456	47.813	5.870	0.159	1.00	36.38		C
ANISOU	3718	C	ASN	D	456	4600	5409	3814	717	1191	-1062	C
ATOM	3719	O	ASN	D	456	47.117	5.374	1.047	1.00	39.46		O
ANISOU	3719	O	ASN	D	456	5005	5924	4065	698	1387	-1084	O
ATOM	3720	N	VAL	D	457	49.004	5.398	-0.170	1.00	34.18		N
ANISOU	3720	N	VAL	D	457	4405	5046	3536	597	1001	-974	N
ATOM	3721	CA	VAL	D	457	49.676	4.338	0.582	1.00	33.74		C
ANISOU	3721	CA	VAL	D	457	4497	5014	3310	455	975	-903	C
ATOM	3722	CB	VAL	D	457	49.883	3.059	-0.286	1.00	32.28		C
ANISOU	3722	CB	VAL	D	457	4179	4866	3220	319	921	-748	C
ATOM	3723	CG1	VAL	D	457	50.617	1.967	0.500	1.00	32.61		C
ANISOU	3723	CG1	VAL	D	457	4387	4904	3098	195	883	-661	C
ATOM	3724	CG2	VAL	D	457	48.541	2.522	-0.807	1.00	33.51		C
ANISOU	3724	CG2	VAL	D	457	4097	5162	3471	308	1091	-717	C
ATOM	3725	C	VAL	D	457	51.031	4.904	1.032	1.00	32.68		C
ANISOU	3725	C	VAL	D	457	4580	4731	3105	444	773	-949	C
ATOM	3726	O	VAL	D	457	51.822	5.334	0.185	1.00	30.77		O
ANISOU	3726	O	VAL	D	457	4297	4375	3018	437	604	-926	O
ATOM	3727	N	MSE	D	458	51.279	4.935	2.348	1.00	33.57		N
ANISOU	3727	N	MSE	D	458	4921	4852	2984	440	792	-1018	N
ATOM	3728	CA	MSE	D	458	52.542	5.460	2.892	1.00	33.03		C
ANISOU	3728	CA	MSE	D	458	5058	4656	2837	420	576	-1082	C
ATOM	3729	CB	MSE	D	458	52.509	5.541	4.421	1.00	35.52		C
ANISOU	3729	CB	MSE	D	458	5638	5013	2845	439	627	-1182	C
ATOM	3730	CG	MSE	D	458	53.711	6.288	5.016	1.00	34.66		C
ANISOU	3730	CG	MSE	D	458	5739	4772	2659	428	383	-1294	C
ATOM	3731	SE	MSE	D	458	53.851	6.197	6.940	0.90	39.03		SE
ANISOU	3731	SE	MSE	D	458	6670	5394	2765	437	388	-1406	SE
ATOM	3732	CE	MSE	D	458	55.169	7.548	7.238	1.00	40.64		C
ANISOU	3732	CE	MSE	D	458	7044	5395	3003	434	59	-1605	C
ATOM	3733	C	MSE	D	458	53.711	4.597	2.449	1.00	31.60		C
ANISOU	3733	C	MSE	D	458	4852	4434	2721	297	378	-943	C
ATOM	3734	O	MSE	D	458	53.591	3.367	2.390	1.00	31.80		O
ANISOU	3734	O	MSE	D	458	4832	4541	2711	221	428	-811	O
ATOM	3735	N	GLY	D	459	54.833	5.231	2.119	1.00	30.97		N
ANISOU	3735	N	GLY	D	459	4791	4220	2755	277	165	-973	N
ATOM	3736	CA	GLY	D	459	56.032	4.514	1.643	1.00	29.96		C
ANISOU	3736	CA	GLY	D	459	4609	4050	2725	178	-21	-853	C
ATOM	3737	C	GLY	D	459	56.149	4.354	0.118	1.00	28.53		C
ANISOU	3737	C	GLY	D	459	4203	3839	2800	157	-25	-754	C
ATOM	3738	O	GLY	D	459	57.067	3.695	-0.379	1.00	27.21		O
ANISOU	3738	O	GLY	D	459	3968	3645	2726	88	-141	-656	O
ATOM	3739	N	MSE	D	460	55.240	4.983	-0.620	1.00	28.31		N
ANISOU	3739	N	MSE	D	460	4064	3815	2879	230	96	-784	N
ATOM	3740	CA	MSE	D	460	55.042	4.734	-2.044	1.00	28.35		C
ANISOU	3740	CA	MSE	D	460	3874	3830	3069	225	124	-688	C
ATOM	3741	CB	MSE	D	460	54.078	3.573	-2.174	1.00	27.77		C
ANISOU	3741	CB	MSE	D	460	3709	3898	2944	200	267	-617	C
ATOM	3742	CG	MSE	D	460	54.112	2.810	-3.436	1.00	30.07		C
ANISOU	3742	CG	MSE	D	460	3842	4216	3368	152	259	-511	C

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Figure 18 (continued)

ATOM	3743	SE	MSE	D	460	52.689	1.457	-3.282	0.90	33.52	SE
ANISOU	3743	SE	MSE	D	460	4185	4819	3732	100	451	SE
ATOM	3744	CE	MSE	D	460	53.605	0.285	-1.992	1.00	34.15	C
ANISOU	3744	CE	MSE	D	460	4467	4874	3636	-1	401	C
ATOM	3745	C	MSE	D	460	54.378	5.961	-2.667	1.00	26.69	C
ANISOU	3745	C	MSE	D	460	3605	3566	2972	333	177	C
ATOM	3746	O	MSE	D	460	53.553	6.615	-2.027	1.00	27.88	O
ANISOU	3746	O	MSE	D	460	3813	3730	3051	427	275	O
ATOM	3747	N	VAL	D	461	54.750	6.277	-3.901	1.00	24.21	N
ANISOU	3747	N	VAL	D	461	3187	3185	2826	331	120	N
ATOM	3748	CA	VAL	D	461	54.111	7.350	-4.657	1.00	23.60	C
ANISOU	3748	CA	VAL	D	461	3055	3051	2861	443	159	C
ATOM	3749	CB	VAL	D	461	54.973	8.683	-4.716	1.00	24.29	C
ANISOU	3749	CB	VAL	D	461	3246	2931	3053	454	54	C
ATOM	3750	CG1	VAL	D	461	54.919	9.441	-3.418	1.00	26.49	C
ANISOU	3750	CG1	VAL	D	461	3693	3135	3236	497	49	C
ATOM	3751	CG2	VAL	D	461	56.409	8.417	-5.145	1.00	21.55	C
ANISOU	3751	CG2	VAL	D	461	2887	2510	2790	322	-73	C
ATOM	3752	C	VAL	D	461	53.857	6.895	-6.082	1.00	21.54	C
ANISOU	3752	C	VAL	D	461	2635	2848	2701	440	169	C
ATOM	3753	O	VAL	D	461	54.504	5.950	-6.569	1.00	20.30	O
ANISOU	3753	O	VAL	D	461	2431	2727	2556	340	127	O
ATOM	3754	N	GLY	D	462	52.960	7.610	-6.757	1.00	21.64	N
ANISOU	3754	N	GLY	D	462	2577	2862	2782	561	213	N
ATOM	3755	CA	GLY	D	462	52.766	7.470	-8.213	1.00	20.05	C
ANISOU	3755	CA	GLY	D	462	2259	2696	2664	580	191	C
ATOM	3756	C	GLY	D	462	53.780	8.244	-9.042	1.00	19.20	C
ANISOU	3756	C	GLY	D	462	2210	2429	2656	563	109	C
ATOM	3757	O	GLY	D	462	54.540	9.061	-8.544	1.00	19.52	O
ANISOU	3757	O	GLY	D	462	2363	2313	2739	543	65	O
ATOM	3758	N	VAL	D	463	53.780	8.004	-10.337	1.00	18.47	N
ANISOU	3758	N	VAL	D	463	2045	2375	2599	563	93	N
ATOM	3759	CA	VAL	D	463	54.761	8.620	-11.196	1.00	18.33	C
ANISOU	3759	CA	VAL	D	463	2080	2223	2662	531	49	C
ATOM	3760	CB	VAL	D	463	56.088	7.738	-11.343	1.00	18.13	C
ANISOU	3760	CB	VAL	D	463	2045	2200	2645	374	27	C
ATOM	3761	CG1	VAL	D	463	55.844	6.407	-12.051	1.00	15.46	C
ANISOU	3761	CG1	VAL	D	463	1612	2021	2239	337	52	C
ATOM	3762	CG2	VAL	D	463	57.144	8.490	-12.103	1.00	18.20	C
ANISOU	3762	CG2	VAL	D	463	2096	2063	2755	329	12	C
ATOM	3763	C	VAL	D	463	54.076	8.889	-12.517	1.00	18.79	C
ANISOU	3763	C	VAL	D	463	2091	2324	2726	630	47	C
ATOM	3764	O	VAL	D	463	53.343	8.039	-13.061	1.00	18.59	O
ANISOU	3764	O	VAL	D	463	1963	2463	2636	645	53	O
ATOM	3765	N	LEU	D	464	54.245	10.107	-12.999	1.00	19.85	N
ANISOU	3765	N	LEU	D	464	2307	2300	2934	701	29	N
ATOM	3766	CA	LEU	D	464	53.639	10.532	-14.258	1.00	20.22	C
ANISOU	3766	CA	LEU	D	464	2344	2365	2972	816	9	C
ATOM	3767	CB	LEU	D	464	53.298	12.015	-14.196	1.00	21.24	C
ANISOU	3767	CB	LEU	D	464	2572	2308	3190	958	-6	C
ATOM	3768	CG	LEU	D	464	52.392	12.555	-13.082	1.00	21.78	C
ANISOU	3768	CG	LEU	D	464	2634	2349	3293	1085	11	C
ATOM	3769	CD1	LEU	D	464	52.192	14.033	-13.307	1.00	21.48	C
ANISOU	3769	CD1	LEU	D	464	2714	2089	3357	1234	-8	C
ATOM	3770	CD2	LEU	D	464	51.033	11.835	-13.039	1.00	19.48	C
ANISOU	3770	CD2	LEU	D	464	2173	2290	2938	1184	22	C
ATOM	3771	C	LEU	D	464	54.600	10.221	-15.434	1.00	20.13	C
ANISOU	3771	C	LEU	D	464	2363	2346	2938	720	16	C
ATOM	3772	O	LEU	D	464	55.774	9.957	-15.215	1.00	19.34	O
ANISOU	3772	O	LEU	D	464	2286	2186	2877	580	42	O
ATOM	3773	N	PRO	D	465	54.096	10.203	-16.684	1.00	21.70	N
ANISOU	3773	N	PRO	D	465	2556	2622	3065	799	-8	N
ATOM	3774	CA	PRO	D	465	54.985	9.992	-17.845	1.00	22.57	C
ANISOU	3774	CA	PRO	D	465	2723	2726	3126	722	25	C
ATOM	3775	CB	PRO	D	465	54.069	10.254	-19.037	1.00	23.86	C
ANISOU	3775	CB	PRO	D	465	2910	2970	3187	865	-34	C
ATOM	3776	CG	PRO	D	465	52.699	9.890	-18.550	1.00	23.05	C
ANISOU	3776	CG	PRO	D	465	2677	3013	3067	968	-105	C
ATOM	3777	CD	PRO	D	465	52.675	10.307	-17.092	1.00	22.87	C
ANISOU	3777	CD	PRO	D	465	2637	2889	3164	965	-71	C
ATOM	3778	C	PRO	D	465	56.248	10.874	-17.928	1.00	25.04	C

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Figure 18 (continued)

ANISOU	3778	C	PRO	D	465	3145	2825	3544	637	84	529	C
ATOM	3779	O	PRO	D	465	57.278	10.395	-18.414	1.00	25.30		O
ANISOU	3779	O	PRO	D	465	3176	2867	3570	517	149	583	O
ATOM	3780	N	ASP	D	466	56.170	12.133	-17.480	1.00	26.78		N
ANISOU	3780	N	ASP	D	466	3452	2849	3874	696	69	538	N
ATOM	3781	CA	ASP	D	466	57.344	13.009	-17.382	1.00	28.69		C
ANISOU	3781	CA	ASP	D	466	3786	2862	4253	586	117	599	C
ATOM	3782	CB	ASP	D	466	56.953	14.498	-17.491	1.00	31.09		C
ANISOU	3782	CB	ASP	D	466	4230	2938	4643	702	98	670	C
ATOM	3783	CG	ASP	D	466	56.078	14.998	-16.330	1.00	32.24		C
ANISOU	3783	CG	ASP	D	466	4380	3024	4845	822	37	512	C
ATOM	3784	OD1	ASP	D	466	55.823	14.292	-15.330	1.00	30.53		O
ANISOU	3784	OD1	ASP	D	466	4070	2932	4599	800	19	349	O
ATOM	3785	OD2	ASP	D	466	55.642	16.161	-16.413	1.00	38.19		O
ANISOU	3785	OD2	ASP	D	466	5248	3591	5673	948	19	556	O
ATOM	3786	C	ASP	D	466	58.190	12.757	-16.130	1.00	28.75		C
ANISOU	3786	C	ASP	D	466	3742	2819	4363	442	111	460	C
ATOM	3787	O	ASP	D	466	59.120	13.523	-15.851	1.00	29.86		O
ANISOU	3787	O	ASP	D	466	3937	2764	4644	338	125	475	O
ATOM	3788	N	MSE	D	467	57.871	11.674	-15.404	1.00	27.82		N
ANISOU	3788	N	MSE	D	467	3523	2874	4173	430	82	334	N
ATOM	3789	CA	MSE	D	467	58.653	11.191	-14.238	1.00	27.18		C
ANISOU	3789	CA	MSE	D	467	3395	2788	4144	304	55	213	C
ATOM	3790	CB	MSE	D	467	60.143	11.016	-14.581	1.00	27.16		C
ANISOU	3790	CB	MSE	D	467	3352	2728	4238	142	90	280	C
ATOM	3791	CG	MSE	D	467	60.473	9.801	-15.486	1.00	26.75		C
ANISOU	3791	CG	MSE	D	467	3210	2847	4106	108	154	349	C
ATOM	3792	SE	MSE	D	467	59.696	8.138	-14.902	0.90	30.05		SE
ANISOU	3792	SE	MSE	D	467	3540	3499	4378	144	116	232	SE
ATOM	3793	CE	MSE	D	467	60.578	8.025	-13.137	1.00	28.88		C
ANISOU	3793	CE	MSE	D	467	3369	3279	4325	39	26	100	C
ATOM	3794	C	MSE	D	467	58.470	12.021	-12.971	1.00	27.94		C
ANISOU	3794	C	MSE	D	467	3565	2749	4304	327	-1	81	C
ATOM	3795	O	MSE	D	467	59.154	11.804	-11.978	1.00	28.10		O
ANISOU	3795	O	MSE	D	467	3577	2745	4357	227	-48	-18	O
ATOM	3796	N	THR	D	468	57.548	12.977	-13.020	1.00	28.97		N
ANISOU	3796	N	THR	D	468	3776	2788	4443	470	-3	77	N
ATOM	3797	CA	THR	D	468	57.137	13.732	-11.838	1.00	30.36		C
ANISOU	3797	CA	THR	D	468	4035	2848	4652	533	-37	-73	C
ATOM	3798	CB	THR	D	468	56.270	14.949	-12.237	1.00	32.44		C
ANISOU	3798	CB	THR	D	468	4395	2963	4969	710	-26	-37	C
ATOM	3799	OG1	THR	D	468	57.079	15.883	-12.965	1.00	35.37		O
ANISOU	3799	OG1	THR	D	468	4863	3109	5468	645	-20	91	O
ATOM	3800	CG2	THR	D	468	55.697	15.678	-11.014	1.00	36.00		C
ANISOU	3800	CG2	THR	D	468	4932	3304	5441	809	-40	-217	C
ATOM	3801	C	THR	D	468	56.377	12.807	-10.868	1.00	28.96		C
ANISOU	3801	C	THR	D	468	3791	2867	4345	575	-35	-208	C
ATOM	3802	O	THR	D	468	55.453	12.082	-11.295	1.00	27.88		O
ANISOU	3802	O	THR	D	468	3558	2917	4118	657	-2	-178	O
ATOM	3803	N	PRO	D	469	56.760	12.819	-9.568	1.00	28.78		N
ANISOU	3803	N	PRO	D	469	3824	2804	4307	512	-72	-354	N
ATOM	3804	CA	PRO	D	469	56.011	12.034	-8.581	1.00	28.00		C
ANISOU	3804	CA	PRO	D	469	3694	2876	4068	554	-47	-469	C
ATOM	3805	CB	PRO	D	469	56.847	12.161	-7.306	1.00	28.47		C
ANISOU	3805	CB	PRO	D	469	3854	2854	4107	451	-118	-600	C
ATOM	3806	CG	PRO	D	469	57.615	13.422	-7.471	1.00	30.60		C
ANISOU	3806	CG	PRO	D	469	4223	2871	4532	407	-176	-605	C
ATOM	3807	CD	PRO	D	469	57.864	13.578	-8.946	1.00	30.30		C
ANISOU	3807	CD	PRO	D	469	4118	2793	4602	395	-144	-421	C
ATOM	3808	C	PRO	D	469	54.628	12.624	-8.344	1.00	28.95		C
ANISOU	3808	C	PRO	D	469	3830	3009	4161	746	18	-541	C
ATOM	3809	O	PRO	D	469	54.422	13.821	-8.471	1.00	31.03		O
ANISOU	3809	O	PRO	D	469	4181	3092	4515	846	15	-558	O
ATOM	3810	N	SER	D	470	53.680	11.773	-8.007	1.00	28.12		N
ANISOU	3810	N	SER	D	470	3630	3107	3946	799	84	-579	N
ATOM	3811	CA	SER	D	470	52.325	12.211	-7.789	1.00	28.32		C
ANISOU	3811	CA	SER	D	470	3619	3181	3962	984	162	-647	C
ATOM	3812	CB	SER	D	470	51.519	12.098	-9.070	1.00	27.33		C
ANISOU	3812	CB	SER	D	470	3351	3150	3883	1084	164	-524	C
ATOM	3813	OG	SER	D	470	50.209	12.579	-8.834	1.00	30.16		O
ANISOU	3813	OG	SER	D	470	3644	3556	4261	1280	230	-595	O

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Figure 18 (continued)

ATOM	3814	C	SER	D	470	51.727	11.317	-6.739	1.00	28.11	
ANISOU	3814	C	SER	D	470	3546	3336	3798	967	247	-746
ATOM	3815	O	SER	D	470	51.955	10.097	-6.738	1.00	26.67	
ANISOU	3815	O	SER	D	470	3294	3298	3541	842	249	-697
ATOM	3816	N	THR	D	471	50.970	11.922	-5.847	1.00	29.88	
ANISOU	3816	N	THR	D	471	3821	3542	3989	1095	330	-882
ATOM	3817	CA	THR	D	471	50.235	11.190	-4.825	1.00	31.76	
ANISOU	3817	CA	THR	D	471	4022	3958	4090	1099	454	-973
ATOM	3818	CB	THR	D	471	50.322	11.895	-3.438	1.00	34.06	
ANISOU	3818	CB	THR	D	471	4508	4151	4283	1147	504	-1155
ATOM	3819	OG1	THR	D	471	49.928	13.268	-3.563	1.00	36.80	
ANISOU	3819	OG1	THR	D	471	4916	4323	4743	1327	515	-1233
ATOM	3820	CG2	THR	D	471	51.762	11.842	-2.895	1.00	34.68	
ANISOU	3820	CG2	THR	D	471	4765	4112	4299	980	369	-1177
ATOM	3821	C	THR	D	471	48.769	10.996	-5.221	1.00	32.22	
ANISOU	3821	C	THR	D	471	3872	4182	4189	1237	567	-962
ATOM	3822	O	THR	D	471	47.976	10.500	-4.422	1.00	33.96	
ANISOU	3822	O	THR	D	471	4032	4552	4321	1256	707	-1035
ATOM	3823	N	GLU	D	472	48.430	11.356	-6.463	1.00	31.70	
ANISOU	3823	N	GLU	D	472	3692	4098	4254	1325	502	-862
ATOM	3824	CA	GLU	D	472	47.035	11.363	-6.926	1.00	32.30	
ANISOU	3824	CA	GLU	D	472	3552	4318	4400	1483	566	-856
ATOM	3825	CB	GLU	D	472	46.564	12.792	-7.215	1.00	34.20	
ANISOU	3825	CB	GLU	D	472	3825	4402	4768	1721	548	-885
ATOM	3826	CG	GLU	D	472	46.472	13.710	-6.001	1.00	39.23	
ANISOU	3826	CG	GLU	D	472	4619	4902	5385	1834	650	-1059
ATOM	3827	CD	GLU	D	472	47.149	15.074	-6.249	1.00	44.76	
ANISOU	3827	CD	GLU	D	472	5528	5294	6185	1917	554	-1063
ATOM	3828	OE1	GLU	D	472	46.462	16.121	-6.201	1.00	47.87	
ANISOU	3828	OE1	GLU	D	472	5937	5570	6681	2147	593	-1130
ATOM	3829	OE2	GLU	D	472	48.384	15.090	-6.500	1.00	45.99	
ANISOU	3829	OE2	GLU	D	472	5826	5316	6333	1749	444	-998
ATOM	3830	C	GLU	D	472	46.839	10.501	-8.164	1.00	29.96	
ANISOU	3830	C	GLU	D	472	3083	4165	4136	1413	484	-717
ATOM	3831	O	GLU	D	472	45.842	9.804	-8.275	1.00	29.57	
ANISOU	3831	O	GLU	D	472	2827	4313	4094	1424	541	-722
ATOM	3832	N	MSE	D	473	47.796	10.559	-9.100	1.00	28.19	
ANISOU	3832	N	MSE	D	473	2943	3839	3930	1336	355	-601
ATOM	3833	CA	MSE	D	473	47.703	9.800	-10.341	1.00	26.31	
ANISOU	3833	CA	MSE	D	473	2581	3719	3695	1276	272	-481
ATOM	3834	CB	MSE	D	473	47.452	10.726	-11.552	1.00	27.81	
ANISOU	3834	CB	MSE	D	473	2766	3834	3967	1434	167	-380
ATOM	3835	CG	MSE	D	473	46.264	11.657	-11.443	1.00	26.21	
ANISOU	3835	CG	MSE	D	473	2472	3630	3858	1680	188	-429
ATOM	3836	SE	MSE	D	473	44.516	10.785	-11.482	0.90	29.78	SE
ANISOU	3836	SE	MSE	D	473	2569	4404	4342	1752	231	-487
ATOM	3837	CE	MSE	D	473	44.552	10.081	-13.324	1.00	24.55	
ANISOU	3837	CE	MSE	D	473	1821	3865	3642	1686	30	-325
ATOM	3838	C	MSE	D	473	48.978	9.045	-10.570	1.00	24.24	
ANISOU	3838	C	MSE	D	473	2418	3421	3371	1074	225	-417
ATOM	3839	O	MSE	D	473	50.039	9.420	-10.051	1.00	23.22	
ANISOU	3839	O	MSE	D	473	2450	3138	3233	1006	216	-432
ATOM	3840	N	SER	D	474	48.890	8.004	-11.387	1.00	22.74	
ANISOU	3840	N	SER	D	474	2125	3368	3148	983	187	-352
ATOM	3841	CA	SER	D	474	50.092	7.287	-11.803	1.00	20.80	
ANISOU	3841	CA	SER	D	474	1959	3086	2859	820	146	-285
ATOM	3842	CB	SER	D	474	50.489	6.264	-10.751	1.00	19.28	
ANISOU	3842	CB	SER	D	474	1787	2935	2604	675	208	-343
ATOM	3843	OG	SER	D	474	51.820	5.854	-10.984	1.00	16.43	
ANISOU	3843	OG	SER	D	474	1518	2493	2230	553	164	-287
ATOM	3844	C	SER	D	474	49.928	6.603	-13.137	1.00	20.73	
ANISOU	3844	C	SER	D	474	1868	3182	2825	789	81	-205
ATOM	3845	O	SER	D	474	48.821	6.295	-13.530	1.00	21.95	
ANISOU	3845	O	SER	D	474	1877	3482	2983	843	62	-221
ATOM	3846	N	MSE	D	475	51.037	6.376	-13.838	1.00	20.98	
ANISOU	3846	N	MSE	D	475	1989	3147	2833	702	46	-127
ATOM	3847	CA	MSE	D	475	51.056	5.443	-14.964	1.00	21.48	
ANISOU	3847	CA	MSE	D	475	2006	3317	2838	639	5	-80
ATOM	3848	CB	MSE	D	475	52.472	5.270	-15.530	1.00	19.83	
ANISOU	3848	CB	MSE	D	475	1910	3013	2612	548	10	-6
ATOM	3849	CG	MSE	D	475	52.894	6.455	-16.381	1.00	20.37	

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Figure 18 (continued)

ANISOU	3849	CG	MSE	D	475	2076	2969	2696	631	-15	102	C
ATOM	3850	SE	MSE	D	475	54.525	6.239	-17.395	0.90	22.90		SE
ANISOU	3850	SE	MSE	D	475	2500	3209	2992	523	29	211	SE
ATOM	3851	CE	MSE	D	475	55.763	6.073	-15.923	1.00	15.43		C
ANISOU	3851	CE	MSE	D	475	1566	2140	2155	395	75	144	C
ATOM	3852	C	MSE	D	475	50.505	4.108	-14.458	1.00	21.28		C
ANISOU	3852	C	MSE	D	475	1873	3425	2786	535	40	-159	C
ATOM	3853	O	MSE	D	475	50.898	3.647	-13.399	1.00	20.98		O
ANISOU	3853	O	MSE	D	475	1867	3355	2749	451	102	-203	O
ATOM	3854	N	ARG	D	476	49.570	3.531	-15.206	1.00	22.47		N
ANISOU	3854	N	ARG	D	476	1904	3721	2914	539	-9	-173	N
ATOM	3855	CA	ARG	D	476	48.834	2.320	-14.818	1.00	22.84		C
ANISOU	3855	CA	ARG	D	476	1826	3891	2961	432	23	-248	C
ATOM	3856	CB	ARG	D	476	47.933	1.869	-15.985	1.00	23.67		C
ANISOU	3856	CB	ARG	D	476	1807	4140	3046	439	-79	-261	C
ATOM	3857	CG	ARG	D	476	47.287	0.475	-15.783	1.00	27.51		C
ANISOU	3857	CG	ARG	D	476	2172	4732	3549	284	-56	-339	C
ATOM	3858	CD	ARG	D	476	46.787	-0.218	-17.071	1.00	27.82		C
ANISOU	3858	CD	ARG	D	476	2140	4882	3546	238	-183	-369	C
ATOM	3859	NE	ARG	D	476	47.530	0.020	-18.335	1.00	32.26		N
ANISOU	3859	NE	ARG	D	476	2845	5411	4002	288	-273	-313	N
ATOM	3860	CZ	ARG	D	476	48.407	-0.822	-18.879	1.00	31.84		C
ANISOU	3860	CZ	ARG	D	476	2916	5306	3876	190	-263	-319	C
ATOM	3861	NH1	ARG	D	476	48.759	-1.946	-18.240	1.00	32.87		N
ANISOU	3861	NH1	ARG	D	476	3064	5384	4042	43	-180	-370	N
ATOM	3862	NH2	ARG	D	476	48.962	-0.521	-20.040	1.00	28.92		N
ANISOU	3862	NH2	ARG	D	476	2666	4927	3395	249	-323	-268	N
ATOM	3863	C	ARG	D	476	49.715	1.168	-14.282	1.00	20.44		C
ANISOU	3863	C	ARG	D	476	1601	3533	2632	271	84	-261	C
ATOM	3864	O	ARG	D	476	50.603	0.659	-14.985	1.00	19.53		O
ANISOU	3864	O	ARG	D	476	1567	3372	2481	213	57	-227	O
ATOM	3865	N	GLY	D	477	49.476	0.777	-13.028	1.00	20.13		N
ANISOU	3865	N	GLY	D	477	1544	3497	2606	212	174	-303	N
ATOM	3866	CA	GLY	D	477	50.241	-0.307	-12.377	1.00	19.10		C
ANISOU	3866	CA	GLY	D	477	1500	3308	2451	77	223	-300	C
ATOM	3867	C	GLY	D	477	51.654	0.032	-11.943	1.00	18.37		C
ANISOU	3867	C	GLY	D	477	1558	3076	2345	81	215	-259	C
ATOM	3868	O	GLY	D	477	52.351	-0.837	-11.447	1.00	18.98		O
ANISOU	3868	O	GLY	D	477	1702	3100	2407	-7	233	-246	O
ATOM	3869	N	ILE	D	478	52.094	1.285	-12.110	1.00	18.42		N
ANISOU	3869	N	ILE	D	478	1614	3013	2371	179	180	-235	N
ATOM	3870	CA	ILE	D	478	53.467	1.698	-11.747	1.00	17.40		C
ANISOU	3870	CA	ILE	D	478	1602	2752	2259	167	158	-203	C
ATOM	3871	CB	ILE	D	478	54.167	2.509	-12.862	1.00	17.64		C
ANISOU	3871	CB	ILE	D	478	1662	2712	2328	215	115	-140	C
ATOM	3872	CG1	ILE	D	478	53.884	1.926	-14.282	1.00	18.18		C
ANISOU	3872	CG1	ILE	D	478	1682	2862	2363	211	98	-108	C
ATOM	3873	CD1	ILE	D	478	54.456	0.525	-14.545	1.00	17.82		C
ANISOU	3873	CD1	ILE	D	478	1642	2831	2299	109	115	-115	C
ATOM	3874	CG2	ILE	D	478	55.699	2.688	-12.556	1.00	16.84		C
ANISOU	3874	CG2	ILE	D	478	1638	2484	2276	163	98	-107	C
ATOM	3875	C	ILE	D	478	53.516	2.522	-10.450	1.00	18.27		C
ANISOU	3875	C	ILE	D	478	1780	2801	2362	205	175	-248	C
ATOM	3876	O	ILE	D	478	52.759	3.501	-10.278	1.00	19.57		O
ANISOU	3876	O	ILE	D	478	1928	2971	2538	304	192	-284	O
ATOM	3877	N	ARG	D	479	54.407	2.131	-9.538	1.00	17.66		N
ANISOU	3877	N	ARG	D	479	1785	2662	2261	138	160	-252	N
ATOM	3878	CA	ARG	D	479	54.620	2.867	-8.297	1.00	18.17		C
ANISOU	3878	CA	ARG	D	479	1947	2665	2291	163	152	-308	C
ATOM	3879	CB	ARG	D	479	53.947	2.147	-7.108	1.00	19.25		C
ANISOU	3879	CB	ARG	D	479	2115	2880	2318	131	225	-348	C
ATOM	3880	CG	ARG	D	479	52.436	1.937	-7.217	1.00	19.34		C
ANISOU	3880	CG	ARG	D	479	2015	3018	2313	163	334	-376	C
ATOM	3881	CD	ARG	D	479	51.652	3.264	-7.152	1.00	22.05		C
ANISOU	3881	CD	ARG	D	479	2332	3364	2683	298	368	-442	C
ATOM	3882	NE	ARG	D	479	50.213	3.019	-7.118	1.00	23.03		N
ANISOU	3882	NE	ARG	D	479	2316	3626	2807	332	477	-475	N
ATOM	3883	CZ	ARG	D	479	49.448	2.766	-8.182	1.00	24.23		C
ANISOU	3883	CZ	ARG	D	479	2306	3868	3033	347	466	-451	C
ATOM	3884	NH1	ARG	D	479	49.944	2.768	-9.423	1.00	22.96		N
ANISOU	3884	NH1	ARG	D	479	2127	3672	2923	344	360	-392	N

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Figure 18 (continued)

ATOM	3885	NH2	ARG	D	479	48.161	2.542	-7.998	1.00	26.72		N
ANISOU	3885	NH2	ARG	D	479	2471	4316	3365	367	563	-491	N
ATOM	3886	C	ARG	D	479	56.113	3.010	-8.047	1.00	18.00		C
ANISOU	3886	C	ARG	D	479	2000	2531	2310	111	60	-286	C
ATOM	3887	O	ARG	D	479	56.893	2.152	-8.450	1.00	17.43		O
ANISOU	3887	O	ARG	D	479	1902	2452	2268	49	31	-230	O
ATOM	3888	N	VAL	D	480	56.506	4.091	-7.376	1.00	18.88		N
ANISOU	3888	N	VAL	D	480	2194	2547	2431	138	13	-340	N
ATOM	3889	CA	VAL	D	480	57.872	4.288	-6.941	1.00	18.12		C
ANISOU	3889	CA	VAL	D	480	2153	2351	2382	77	-95	-341	C
ATOM	3890	CB	VAL	D	480	58.424	5.658	-7.477	1.00	19.53		C
ANISOU	3890	CB	VAL	D	480	2339	2392	2689	91	-137	-344	C
ATOM	3891	CG1	VAL	D	480	59.811	6.004	-6.914	1.00	16.90		C
ANISOU	3891	CG1	VAL	D	480	2041	1951	2430	9	-261	-368	C
ATOM	3892	CG2	VAL	D	480	58.462	5.665	-8.979	1.00	16.55		C
ANISOU	3892	CG2	VAL	D	480	1871	2019	2398	100	-88	-246	C
ATOM	3893	C	VAL	D	480	57.914	4.199	-5.402	1.00	20.38		C
ANISOU	3893	C	VAL	D	480	2561	2642	2541	65	-138	-419	C
ATOM	3894	O	VAL	D	480	57.129	4.864	-4.687	1.00	20.96		O
ANISOU	3894	O	VAL	D	480	2713	2720	2531	126	-92	-507	O
ATOM	3895	N	SER	D	481	58.821	3.365	-4.894	1.00	20.39		N
ANISOU	3895	N	SER	D	481	2584	2645	2517	1	-225	-387	N
ATOM	3896	CA	SER	D	481	59.058	3.257	-3.454	1.00	22.99		C
ANISOU	3896	CA	SER	D	481	3052	2978	2703	-11	-302	-444	C
ATOM	3897	CB	SER	D	481	59.874	1.996	-3.174	1.00	22.03		C
ANISOU	3897	CB	SER	D	481	2928	2881	2562	-61	-385	-362	C
ATOM	3898	OG	SER	D	481	60.138	1.858	-1.810	1.00	21.23		O
ANISOU	3898	OG	SER	D	481	2978	2789	2300	-66	-480	-399	O
ATOM	3899	C	SER	D	481	59.757	4.490	-2.835	1.00	25.71		C
ANISOU	3899	C	SER	D	481	3483	3214	3072	-19	-429	-546	C
ATOM	3900	O	SER	D	481	60.658	5.061	-3.420	1.00	25.93		O
ANISOU	3900	O	SER	D	481	3439	3147	3265	-59	-511	-535	O
ATOM	3901	N	LYS	D	482	59.321	4.900	-1.655	1.00	29.14		N
ANISOU	3901	N	LYS	D	482	4076	3658	3339	13	-436	-651	N
ATOM	3902	CA	LYS	D	482	60.019	5.935	-0.899	1.00	33.36		C
ANISOU	3902	CA	LYS	D	482	4723	4086	3866	-7	-583	-772	C
ATOM	3903	CB	LYS	D	482	59.022	6.840	-0.155	1.00	34.30		C
ANISOU	3903	CB	LYS	D	482	4994	4191	3848	75	-492	-915	C
ATOM	3904	CG	LYS	D	482	58.218	7.746	-1.062	1.00	35.12		C
ANISOU	3904	CG	LYS	D	482	5025	4233	4086	151	-361	-933	C
ATOM	3905	CD	LYS	D	482	57.186	8.541	-0.242	1.00	38.57		C
ANISOU	3905	CD	LYS	D	482	5604	4663	4387	260	-254	-1083	C
ATOM	3906	CE	LYS	D	482	57.252	10.056	-0.537	1.00	45.10		C
ANISOU	3906	CE	LYS	D	482	6478	5298	5359	308	-284	-1185	C
ATOM	3907	NZ	LYS	D	482	56.099	10.810	0.069	1.00	47.81		N
ANISOU	3907	NZ	LYS	D	482	6933	5632	5603	453	-143	-1329	N
ATOM	3908	C	LYS	D	482	61.038	5.332	0.072	1.00	35.24		C
ANISOU	3908	C	LYS	D	482	5039	4343	4008	-65	-774	-772	C
ATOM	3909	O	LYS	D	482	61.727	6.074	0.758	1.00	37.45		O
ANISOU	3909	O	LYS	D	482	5410	4546	4275	-99	-937	-880	O
ATOM	3910	N	MSE	D	483	61.139	3.993	0.102	1.00	35.93		N
ANISOU	3910	N	MSE	D	483	5093	4523	4037	-74	-766	-651	N
ATOM	3911	CA	MSE	D	483	62.049	3.244	0.994	1.00	38.63		C
ANISOU	3911	CA	MSE	D	483	5507	4890	4278	-103	-953	-617	C
ATOM	3912	CB	MSE	D	483	61.526	1.809	1.265	1.00	38.49		C
ANISOU	3912	CB	MSE	D	483	5539	4971	4113	-80	-858	-492	C
ATOM	3913	CG	MSE	D	483	60.174	1.672	1.929	1.00	38.95		C
ANISOU	3913	CG	MSE	D	483	5746	5112	3940	-43	-667	-517	C
ATOM	3914	SE	MSE	D	483	60.058	2.796	3.498	0.90	48.19		SE
ANISOU	3914	SE	MSE	D	483	7190	6282	4839	-11	-748	-705	SE
ATOM	3915	CE	MSE	D	483	61.347	1.963	4.722	1.00	38.88		C
ANISOU	3915	CE	MSE	D	483	6178	5122	3472	-35	-1049	-643	C
ATOM	3916	C	MSE	D	483	63.440	3.077	0.385	1.00	39.71		C
ANISOU	3916	C	MSE	D	483	5470	4969	4647	-156	-1120	-557	C
ATOM	3917	O	MSE	D	483	63.582	2.646	-0.783	1.00	39.13		O
ANISOU	3917	O	MSE	D	483	5221	4891	4756	-163	-1031	-463	O
ATOM	3918	OXT	MSE	D	483	64.451	3.268	1.060	1.00	42.00		O
ANISOU	3918	OXT	MSE	D	483	5786	5231	4942	-190	-1344	-601	O
ATOM	3919	N	SER	E	320	17.288	-30.979	-15.413	1.00	45.14		N
ANISOU	3919	N	SER	E	320	4874	5333	6943	-1348	253	-1314	N
ATOM	3920	CA	SER	E	320	18.777	-31.109	-15.580	1.00	43.13		C

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Figure 18 (continued)

ANISOU	3920	CA	SER E 320	4877	4914	6598	-1261	271	-1210	C
ATOM	3921	CB	SER E 320	19.237	-30.250	-16.770	1.00	42.79		C
ANISOU	3921	CB	SER E 320	4873	4954	6429	-1088	116	-1208	C
ATOM	3922	OG	SER E 320	20.570	-30.562	-17.153	1.00	42.94		O
ANISOU	3922	OG	SER E 320	5102	4848	6364	-1042	136	-1161	O
ATOM	3923	C	SER E 320	19.579	-30.728	-14.308	1.00	40.67		C
ANISOU	3923	C	SER E 320	4675	4506	6270	-1199	402	-1051	C
ATOM	3924	O	SER E 320	20.651	-30.104	-14.400	1.00	38.93		O
ANISOU	3924	O	SER E 320	4584	4241	5966	-1052	384	-962	O
ATOM	3925	N	SER E 321	19.089	-31.107	-13.126	1.00	39.80		N
ANISOU	3925	N	SER E 321	4515	4379	6227	-1326	537	-1019	N
ATOM	3926	CA	SER E 321	19.714	-30.590	-11.897	1.00	37.65		C
ANISOU	3926	CA	SER E 321	4321	4074	5908	-1264	645	-884	C
ATOM	3927	CB	SER E 321	18.684	-29.870	-11.033	1.00	38.56		C
ANISOU	3927	CB	SER E 321	4239	4357	6053	-1282	719	-919	C
ATOM	3928	OG	SER E 321	17.883	-30.781	-10.335	1.00	42.51		O
ANISOU	3928	OG	SER E 321	4667	4871	6613	-1506	844	-940	O
ATOM	3929	C	SER E 321	20.577	-31.528	-11.043	1.00	35.74		C
ANISOU	3929	C	SER E 321	4273	3651	5656	-1347	751	-758	C
ATOM	3930	O	SER E 321	20.985	-31.157	-9.954	1.00	35.15		O
ANISOU	3930	O	SER E 321	4249	3580	5525	-1318	835	-651	O
ATOM	3931	N	SER E 322	20.888	-32.716	-11.566	1.00	34.84		N
ANISOU	3931	N	SER E 322	4269	3374	5595	-1437	733	-776	N
ATOM	3932	CA	SER E 322	21.599	-33.753	-10.828	1.00	33.04		C
ANISOU	3932	CA	SER E 322	4224	2938	5393	-1514	809	-653	C
ATOM	3933	CB	SER E 322	20.570	-34.509	-9.996	1.00	35.56		C
ANISOU	3933	CB	SER E 322	4485	3245	5779	-1754	925	-626	C
ATOM	3934	OG	SER E 322	21.115	-35.024	-8.821	1.00	37.24		O
ANISOU	3934	OG	SER E 322	4855	3332	5961	-1811	1016	-441	O
ATOM	3935	C	SER E 322	22.235	-34.682	-11.863	1.00	31.91		C
ANISOU	3935	C	SER E 322	4198	2615	5311	-1502	734	-725	C
ATOM	3936	O	SER E 322	21.534	-35.240	-12.700	1.00	32.42		O
ANISOU	3936	O	SER E 322	4194	2677	5448	-1608	693	-870	O
ATOM	3937	N	PHE E 323	23.554	-34.840	-11.834	1.00	29.63		N
ANISOU	3937	N	PHE E 323	4068	2192	4996	-1371	715	-650	N
ATOM	3938	CA	PHE E 323	24.244	-35.599	-12.891	1.00	29.75		C
ANISOU	3938	CA	PHE E 323	4174	2063	5065	-1325	650	-758	C
ATOM	3939	CB	PHE E 323	24.149	-34.903	-14.263	1.00	28.38		C
ANISOU	3939	CB	PHE E 323	3911	2061	4813	-1241	558	-915	C
ATOM	3940	CG	PHE E 323	24.548	-33.447	-14.229	1.00	26.56		C
ANISOU	3940	CG	PHE E 323	3636	2007	4449	-1083	532	-845	C
ATOM	3941	CD1	PHE E 323	25.862	-33.076	-14.466	1.00	22.90		C
ANISOU	3941	CD1	PHE E 323	3264	1521	3918	-932	519	-808	C
ATOM	3942	CE1	PHE E 323	26.235	-31.770	-14.412	1.00	24.39		C
ANISOU	3942	CE1	PHE E 323	3422	1843	4002	-815	501	-741	C
ATOM	3943	CZ	PHE E 323	25.292	-30.792	-14.111	1.00	23.48		C
ANISOU	3943	CZ	PHE E 323	3191	1869	3862	-821	488	-715	C
ATOM	3944	CE2	PHE E 323	23.978	-31.148	-13.862	1.00	24.40		C
ANISOU	3944	CE2	PHE E 323	3199	2025	4048	-947	500	-764	C
ATOM	3945	CD2	PHE E 323	23.615	-32.469	-13.928	1.00	24.02		C
ANISOU	3945	CD2	PHE E 323	3176	1861	4091	-1090	526	-826	C
ATOM	3946	C	PHE E 323	25.685	-35.852	-12.537	1.00	29.09		C
ANISOU	3946	C	PHE E 323	4245	1828	4982	-1184	651	-658	C
ATOM	3947	O	PHE E 323	26.186	-35.304	-11.578	1.00	27.33		O
ANISOU	3947	O	PHE E 323	4053	1639	4692	-1113	681	-508	O
ATOM	3948	N	SER E 324	26.322	-36.718	-13.318	1.00	31.14		N
ANISOU	3948	N	SER E 324	4586	1925	5321	-1147	614	-765	N
ATOM	3949	CA	SER E 324	27.734	-37.036	-13.197	1.00	31.70		C
ANISOU	3949	CA	SER E 324	4771	1855	5418	-989	600	-719	C
ATOM	3950	CB	SER E 324	27.870	-38.553	-13.286	1.00	34.12		C
ANISOU	3950	CB	SER E 324	5192	1860	5913	-1047	596	-770	C
ATOM	3951	OG	SER E 324	29.065	-38.980	-12.669	1.00	38.99		O
ANISOU	3951	OG	SER E 324	5921	2300	6591	-905	581	-655	O
ATOM	3952	C	SER E 324	28.506	-36.359	-14.344	1.00	30.11		C
ANISOU	3952	C	SER E 324	4525	1797	5118	-844	560	-855	C
ATOM	3953	O	SER E 324	28.106	-36.436	-15.500	1.00	31.59		O
ANISOU	3953	O	SER E 324	4663	2058	5282	-883	530	-1033	O
ATOM	3954	N	PHE E 325	29.598	-35.683	-14.036	1.00	28.89		N
ANISOU	3954	N	PHE E 325	4383	1701	4891	-694	561	-773	N
ATOM	3955	CA	PHE E 325	30.474	-35.145	-15.073	1.00	27.03		C
ANISOU	3955	CA	PHE E 325	4117	1587	4568	-576	545	-888	C

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Figure 18 (continued)

ATOM	3956	CB	PHE	E	325	30.028	-33.721	-15.485	1.00	25.71		C
ANISOU	3956	CB	PHE	E	325	3861	1671	4236	-581	531	-870	C
ATOM	3957	CG	PHE	E	325	30.847	-33.123	-16.611	1.00	24.39		C
ANISOU	3957	CG	PHE	E	325	3676	1643	3950	-499	524	-964	C
ATOM	3958	CD1	PHE	E	325	30.800	-33.667	-17.896	1.00	26.53		C
ANISOU	3958	CD1	PHE	E	325	3946	1946	4189	-527	510	-1154	C
ATOM	3959	CE1	PHE	E	325	31.557	-33.143	-18.941	1.00	26.12		C
ANISOU	3959	CE1	PHE	E	325	3882	2048	3996	-474	523	-1236	C
ATOM	3960	CZ	PHE	E	325	32.370	-32.062	-18.716	1.00	25.88		C
ANISOU	3960	CZ	PHE	E	325	3837	2119	3876	-402	549	-1121	C
ATOM	3961	CE2	PHE	E	325	32.432	-31.495	-17.417	1.00	23.76		C
ANISOU	3961	CE2	PHE	E	325	3565	1800	3661	-371	553	-942	C
ATOM	3962	CD2	PHE	E	325	31.668	-32.040	-16.383	1.00	22.30		C
ANISOU	3962	CD2	PHE	E	325	3395	1484	3596	-415	540	-870	C
ATOM	3963	C	PHE	E	325	31.902	-35.144	-14.575	1.00	26.40		C
ANISOU	3963	C	PHE	E	325	4074	1446	4509	-425	553	-823	C
ATOM	3964	O	PHE	E	325	32.194	-34.540	-13.538	1.00	26.23		O
ANISOU	3964	O	PHE	E	325	4054	1463	4449	-387	556	-660	O
ATOM	3965	N	GLY	E	326	32.796	-35.792	-15.322	1.00	27.37		N
ANISOU	3965	N	GLY	E	326	4212	1496	4692	-336	554	-970	N
ATOM	3966	CA	GLY	E	326	34.235	-35.778	-15.041	1.00	26.54		C
ANISOU	3966	CA	GLY	E	326	4100	1366	4617	-174	556	-952	C
ATOM	3967	C	GLY	E	326	34.617	-36.415	-13.719	1.00	27.28		C
ANISOU	3967	C	GLY	E	326	4264	1264	4837	-114	519	-785	C
ATOM	3968	O	GLY	E	326	35.626	-36.061	-13.130	1.00	26.73		O
ANISOU	3968	O	GLY	E	326	4170	1232	4755	5	500	-704	O
ATOM	3969	N	GLY	E	327	33.802	-37.361	-13.255	1.00	28.74		N
ANISOU	3969	N	GLY	E	327	4538	1245	5136	-209	504	-726	N
ATOM	3970	CA	GLY	E	327	34.068	-38.077	-12.017	1.00	29.31		C
ANISOU	3970	CA	GLY	E	327	4711	1111	5316	-173	461	-535	C
ATOM	3971	C	GLY	E	327	33.462	-37.392	-10.811	1.00	28.45		C
ANISOU	3971	C	GLY	E	327	4617	1109	5084	-268	472	-313	C
ATOM	3972	O	GLY	E	327	33.702	-37.801	-9.695	1.00	29.85		O
ANISOU	3972	O	GLY	E	327	4879	1173	5289	-249	436	-125	O
ATOM	3973	N	PHE	E	328	32.672	-36.346	-11.040	1.00	27.12		N
ANISOU	3973	N	PHE	E	328	4367	1164	4775	-365	519	-340	N
ATOM	3974	CA	PHE	E	328	32.019	-35.572	-9.968	1.00	26.05		C
ANISOU	3974	CA	PHE	E	328	4218	1162	4519	-453	548	-181	C
ATOM	3975	CB	PHE	E	328	32.455	-34.102	-10.014	1.00	23.69		C
ANISOU	3975	CB	PHE	E	328	3822	1103	4075	-380	554	-197	C
ATOM	3976	CG	PHE	E	328	33.877	-33.872	-9.572	1.00	23.60		C
ANISOU	3976	CG	PHE	E	328	3813	1108	4048	-226	510	-147	C
ATOM	3977	CD1	PHE	E	328	34.167	-33.591	-8.245	1.00	22.43		C
ANISOU	3977	CD1	PHE	E	328	3694	1000	3828	-211	488	14	C
ATOM	3978	CE1	PHE	E	328	35.475	-33.394	-7.831	1.00	23.44		C
ANISOU	3978	CE1	PHE	E	328	3804	1160	3943	-72	429	48	C
ATOM	3979	CZ	PHE	E	328	36.506	-33.431	-8.745	1.00	21.73		C
ANISOU	3979	CZ	PHE	E	328	3523	942	3793	50	409	-84	C
ATOM	3980	CE2	PHE	E	328	36.228	-33.706	-10.080	1.00	22.34		C
ANISOU	3980	CE2	PHE	E	328	3575	984	3929	31	451	-248	C
ATOM	3981	CD2	PHE	E	328	34.921	-33.932	-10.485	1.00	21.48		C
ANISOU	3981	CD2	PHE	E	328	3500	839	3823	-105	492	-276	C
ATOM	3982	C	PHE	E	328	30.497	-35.621	-10.086	1.00	26.19		C
ANISOU	3982	C	PHE	E	328	4206	1214	4532	-642	600	-207	C
ATOM	3983	O	PHE	E	328	29.950	-35.431	-11.172	1.00	26.07		O
ANISOU	3983	O	PHE	E	328	4118	1269	4517	-682	603	-365	O
ATOM	3984	N	THR	E	329	29.819	-35.857	-8.968	1.00	26.51		N
ANISOU	3984	N	THR	E	329	4290	1228	4553	-764	638	-54	N
ATOM	3985	CA	THR	E	329	28.360	-35.708	-8.900	1.00	26.59		C
ANISOU	3985	CA	THR	E	329	4228	1329	4544	-949	705	-80	C
ATOM	3986	CB	THR	E	329	27.755	-36.554	-7.740	1.00	28.57		C
ANISOU	3986	CB	THR	E	329	4571	1463	4820	-1117	762	93	C
ATOM	3987	OG1	THR	E	329	28.147	-37.920	-7.876	1.00	29.01		O
ANISOU	3987	OG1	THR	E	329	4767	1221	5033	-1129	723	133	O
ATOM	3988	CG2	THR	E	329	26.239	-36.497	-7.744	1.00	28.98		C
ANISOU	3988	CG2	THR	E	329	4518	1619	4875	-1326	845	36	C
ATOM	3989	C	THR	E	329	28.025	-34.221	-8.688	1.00	25.15		C
ANISOU	3989	C	THR	E	329	3921	1415	4220	-919	731	-98	C
ATOM	3990	O	THR	E	329	28.444	-33.613	-7.696	1.00	24.93		O
ANISOU	3990	O	THR	E	329	3907	1473	4091	-873	746	12	O
ATOM	3991	N	PHE	E	330	27.315	-33.629	-9.642	1.00	24.51		N

Figure 18 (continued)

ANISOU	3991	N	PHE	E	330	3721	1458	4135	-936	723	-244	N
ATOM	3992	CA	PHE	E	330	26.858	-32.240	-9.556	1.00	23.01		C
ANISOU	3992	CA	PHE	E	330	3410	1483	3850	-900	734	-274	C
ATOM	3993	CB	PHE	E	330	26.817	-31.604	-10.941	1.00	21.72		C
ANISOU	3993	CB	PHE	E	330	3173	1403	3676	-825	666	-409	C
ATOM	3994	CG	PHE	E	330	28.177	-31.190	-11.498	1.00	21.21		C
ANISOU	3994	CG	PHE	E	330	3166	1329	3566	-677	621	-415	C
ATOM	3995	CD1	PHE	E	330	28.458	-29.852	-11.723	1.00	15.46		C
ANISOU	3995	CD1	PHE	E	330	2388	729	2756	-587	599	-415	C
ATOM	3996	CE1	PHE	E	330	29.657	-29.480	-12.246	1.00	17.14		C
ANISOU	3996	CE1	PHE	E	330	2641	946	2926	-487	576	-422	C
ATOM	3997	CZ	PHE	E	330	30.629	-30.427	-12.567	1.00	16.73		C
ANISOU	3997	CZ	PHE	E	330	2657	787	2913	-450	574	-450	C
ATOM	3998	CE2	PHE	E	330	30.376	-31.764	-12.358	1.00	17.20		C
ANISOU	3998	CE2	PHE	E	330	2768	698	3069	-508	583	-460	C
ATOM	3999	CD2	PHE	E	330	29.154	-32.149	-11.835	1.00	21.06		C
ANISOU	3999	CD2	PHE	E	330	3238	1164	3598	-632	606	-432	C
ATOM	4000	C	PHE	E	330	25.453	-32.252	-9.007	1.00	24.29		C
ANISOU	4000	C	PHE	E	330	3474	1732	4023	-1056	804	-281	C
ATOM	4001	O	PHE	E	330	24.630	-33.022	-9.465	1.00	26.43		O
ANISOU	4001	O	PHE	E	330	3710	1954	4378	-1183	811	-348	O
ATOM	4002	N	LYS	E	331	25.180	-31.429	-7.999	1.00	24.67		N
ANISOU	4002	N	LYS	E	331	3469	1917	3990	-1057	863	-230	N
ATOM	4003	CA	LYS	E	331	23.812	-31.224	-7.513	1.00	26.44		C
ANISOU	4003	CA	LYS	E	331	3552	2275	4217	-1188	945	-275	C
ATOM	4004	CB	LYS	E	331	23.617	-31.802	-6.093	1.00	27.86		C
ANISOU	4004	CB	LYS	E	331	3795	2455	4336	-1333	1061	-141	C
ATOM	4005	CG	LYS	E	331	23.960	-33.297	-5.951	1.00	31.24		C
ANISOU	4005	CG	LYS	E	331	4390	2659	4822	-1444	1064	-17	C
ATOM	4006	CD	LYS	E	331	23.547	-33.844	-4.584	1.00	33.05		C
ANISOU	4006	CD	LYS	E	331	4681	2905	4972	-1626	1184	138	C
ATOM	4007	CE	LYS	E	331	23.640	-35.361	-4.566	1.00	38.36		C
ANISOU	4007	CE	LYS	E	331	5513	3318	5742	-1762	1182	262	C
ATOM	4008	NZ	LYS	E	331	22.905	-35.921	-3.365	1.00	42.80		N
ANISOU	4008	NZ	LYS	E	331	6117	3916	6230	-2004	1321	413	N
ATOM	4009	C	LYS	E	331	23.523	-29.732	-7.509	1.00	25.02		C
ANISOU	4009	C	LYS	E	331	3240	2275	3994	-1072	934	-357	C
ATOM	4010	O	LYS	E	331	24.129	-28.997	-6.727	1.00	24.10		O
ANISOU	4010	O	LYS	E	331	3157	2208	3793	-994	956	-308	O
ATOM	4011	N	ARG	E	332	22.604	-29.291	-8.370	1.00	25.04		N
ANISOU	4011	N	ARG	E	332	3089	2363	4061	-1059	886	-484	N
ATOM	4012	CA	ARG	E	332	22.229	-27.881	-8.446	1.00	24.35		C
ANISOU	4012	CA	ARG	E	332	2874	2411	3969	-932	855	-562	C
ATOM	4013	CB	ARG	E	332	21.285	-27.616	-9.610	1.00	25.25		C
ANISOU	4013	CB	ARG	E	332	2839	2593	4163	-905	757	-680	C
ATOM	4014	CG	ARG	E	332	21.014	-26.115	-9.816	1.00	21.87		C
ANISOU	4014	CG	ARG	E	332	2303	2255	3752	-736	689	-736	C
ATOM	4015	CD	ARG	E	332	20.462	-25.836	-11.209	1.00	20.39		C
ANISOU	4015	CD	ARG	E	332	2030	2105	3611	-667	535	-801	C
ATOM	4016	NE	ARG	E	332	19.065	-26.242	-11.251	1.00	24.14		N
ANISOU	4016	NE	ARG	E	332	2301	2699	4172	-764	543	-916	N
ATOM	4017	CZ	ARG	E	332	18.397	-26.578	-12.351	1.00	23.40		C
ANISOU	4017	CZ	ARG	E	332	2117	2660	4116	-788	424	-991	C
ATOM	4018	NH1	ARG	E	332	18.988	-26.571	-13.538	1.00	21.11		N
ANISOU	4018	NH1	ARG	E	332	1938	2320	3762	-722	293	-959	N
ATOM	4019	NH2	ARG	E	332	17.126	-26.891	-12.252	1.00	20.98		N
ANISOU	4019	NH2	ARG	E	332	1594	2479	3898	-885	440	-1109	N
ATOM	4020	C	ARG	E	332	21.525	-27.438	-7.198	1.00	26.32		C
ANISOU	4020	C	ARG	E	332	3014	2794	4193	-986	977	-590	C
ATOM	4021	O	ARG	E	332	20.536	-28.054	-6.779	1.00	27.98		O
ANISOU	4021	O	ARG	E	332	3124	3075	4432	-1144	1068	-625	O
ATOM	4022	N	THR	E	333	22.010	-26.355	-6.605	1.00	25.21		N
ANISOU	4022	N	THR	E	333	2884	2698	3998	-869	988	-593	N
ATOM	4023	CA	THR	E	333	21.397	-25.862	-5.375	1.00	26.76		C
ANISOU	4023	CA	THR	E	333	2975	3042	4151	-911	1115	-652	C
ATOM	4024	CB	THR	E	333	22.430	-25.785	-4.254	1.00	26.26		C
ANISOU	4024	CB	THR	E	333	3060	2971	3947	-914	1174	-557	C
ATOM	4025	OG1	THR	E	333	23.540	-25.025	-4.725	1.00	26.60		O
ANISOU	4025	OG1	THR	E	333	3196	2922	3989	-755	1066	-537	O
ATOM	4026	CG2	THR	E	333	22.913	-27.195	-3.863	1.00	26.22		C
ANISOU	4026	CG2	THR	E	333	3215	2876	3869	-1058	1210	-394	C

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Figure 18 (continued)

ATOM	4027	C	THR	E	333	20.663	-24.526	-5.541	1.00	26.87	
ANISOU	4027	C	THR	E	333	2805	3156	4249	-774	1087	-809
ATOM	4028	O	THR	E	333	19.854	-24.162	-4.697	1.00	28.07	
ANISOU	4028	O	THR	E	333	2810	3455	4401	-809	1199	-916
ATOM	4029	N	SER	E	334	20.951	-23.808	-6.627	1.00	26.17	
ANISOU	4029	N	SER	E	334	2727	2986	4232	-617	940	-820
ATOM	4030	CA	SER	E	334	20.279	-22.542	-6.963	1.00	27.33	
ANISOU	4030	CA	SER	E	334	2719	3177	4488	-459	871	-942
ATOM	4031	CB	SER	E	334	21.102	-21.370	-6.495	1.00	26.24	
ANISOU	4031	CB	SER	E	334	2660	2977	4331	-331	863	-947
ATOM	4032	OG	SER	E	334	20.687	-20.972	-5.253	1.00	30.33	
ANISOU	4032	OG	SER	E	334	3084	3610	4830	-352	996	-1061
ATOM	4033	C	SER	E	334	20.227	-22.353	-8.446	1.00	27.14	
ANISOU	4033	C	SER	E	334	2699	3081	4532	-363	695	-914
ATOM	4034	O	SER	E	334	21.097	-22.860	-9.148	1.00	24.82	
ANISOU	4034	O	SER	E	334	2565	2688	4175	-384	635	-806
ATOM	4035	N	GLY	E	335	19.259	-21.545	-8.895	1.00	28.15	
ANISOU	4035	N	GLY	E	335	2651	3264	4780	-243	609	-1014
ATOM	4036	CA	GLY	E	335	19.198	-21.137	-10.292	1.00	27.93	
ANISOU	4036	CA	GLY	E	335	2635	3180	4796	-127	415	-971
ATOM	4037	C	GLY	E	335	18.565	-22.157	-11.198	1.00	28.12	
ANISOU	4037	C	GLY	E	335	2593	3273	4817	-224	346	-983
ATOM	4038	O	GLY	E	335	17.901	-23.072	-10.736	1.00	29.23	
ANISOU	4038	O	GLY	E	335	2627	3506	4972	-375	446	-1053
ATOM	4039	N	SER	E	336	18.775	-21.971	-12.500	1.00	28.38	
ANISOU	4039	N	SER	E	336	2694	3267	4823	-150	176	-918
ATOM	4040	CA	SER	E	336	18.131	-22.753	-13.569	1.00	29.07	
ANISOU	4040	CA	SER	E	336	2710	3437	4900	-217	65	-954
ATOM	4041	CB	SER	E	336	16.621	-22.473	-13.635	1.00	31.46	
ANISOU	4041	CB	SER	E	336	2727	3891	5336	-168	-9	-1092
ATOM	4042	OG	SER	E	336	16.347	-21.090	-13.798	1.00	31.69	
ANISOU	4042	OG	SER	E	336	2690	3901	5451	54	-132	-1084
ATOM	4043	C	SER	E	336	18.788	-22.347	-14.882	1.00	28.45	
ANISOU	4043	C	SER	E	336	2781	3302	4725	-127	-102	-846
ATOM	4044	O	SER	E	336	19.493	-21.345	-14.949	1.00	28.13	
ANISOU	4044	O	SER	E	336	2857	3166	4665	-7	-138	-747
ATOM	4045	N	SER	E	337	18.584	-23.140	-15.920	1.00	28.83	
ANISOU	4045	N	SER	E	337	2834	3415	4705	-205	-194	-868
ATOM	4046	CA	SER	E	337	19.123	-22.804	-17.221	1.00	28.54	
ANISOU	4046	CA	SER	E	337	2932	3371	4540	-140	-346	-774
ATOM	4047	CB	SER	E	337	20.569	-23.278	-17.364	1.00	26.18	
ANISOU	4047	CB	SER	E	337	2866	2970	4113	-211	-249	-695
ATOM	4048	OG	SER	E	337	20.653	-24.681	-17.263	1.00	28.38	
ANISOU	4048	OG	SER	E	337	3156	3248	4378	-372	-156	-782
ATOM	4049	C	SER	E	337	18.249	-23.305	-18.353	1.00	29.78	
ANISOU	4049	C	SER	E	337	2982	3676	4656	-176	-510	-851
ATOM	4050	O	SER	E	337	17.378	-24.160	-18.157	1.00	30.45	
ANISOU	4050	O	SER	E	337	2905	3849	4814	-290	-483	-990
ATOM	4051	N	ILE	E	338	18.476	-22.729	-19.525	1.00	30.64	
ANISOU	4051	N	ILE	E	338	3181	3820	4639	-89	-681	-757
ATOM	4052	CA	ILE	E	338	17.938	-23.221	-20.783	1.00	31.77	
ANISOU	4052	CA	ILE	E	338	3281	4120	4670	-132	-851	-814
ATOM	4053	CB	ILE	E	338	17.005	-22.176	-21.446	1.00	33.98	
ANISOU	4053	CB	ILE	E	338	3438	4503	4968	41	-1101	-760
ATOM	4054	CG1	ILE	E	338	17.737	-20.850	-21.743	1.00	32.53	
ANISOU	4054	CG1	ILE	E	338	3435	4204	4721	199	-1175	-540
ATOM	4055	CD1	ILE	E	338	16.899	-19.806	-22.508	1.00	34.27	
ANISOU	4055	CD1	ILE	E	338	3577	4492	4952	387	-1453	-443
ATOM	4056	CG2	ILE	E	338	15.748	-21.966	-20.580	1.00	34.20	
ANISOU	4056	CG2	ILE	E	338	3181	4582	5232	103	-1106	-883
ATOM	4057	C	ILE	E	338	19.151	-23.626	-21.656	1.00	31.96	
ANISOU	4057	C	ILE	E	338	3543	4122	4476	-205	-826	-751
ATOM	4058	O	ILE	E	338	20.274	-23.333	-21.307	1.00	29.56	
ANISOU	4058	O	ILE	E	338	3404	3692	4137	-193	-705	-650
ATOM	4059	N	LYS	E	339	18.931	-24.339	-22.747	1.00	35.06	
ANISOU	4059	N	LYS	E	339	3939	4655	4729	-290	-928	-838
ATOM	4060	CA	LYS	E	339	20.029	-24.773	-23.631	1.00	36.58	
ANISOU	4060	CA	LYS	E	339	4335	4861	4705	-363	-892	-821
ATOM	4061	CB	LYS	E	339	20.084	-26.290	-23.805	1.00	36.71	
ANISOU	4061	CB	LYS	E	339	4342	4894	4712	-536	-805	-1027
ATOM	4062	CG	LYS	E	339	20.066	-27.164	-22.598	1.00	37.43	

Figure 18 (continued)

ANISOU	4062	CG	LYS	E	339	4380	4835	5006	-627	-622	-1118	C
ATOM	4063	CD	LYS	E	339	19.853	-28.608	-23.095	1.00	40.71		C
ANISOU	4063	CD	LYS	E	339	4778	5276	5414	-797	-606	-1331	C
ATOM	4064	CE	LYS	E	339	19.579	-29.601	-21.976	1.00	42.52		C
ANISOU	4064	CE	LYS	E	339	4945	5354	5856	-921	-452	-1418	C
ATOM	4065	NZ	LYS	E	339	19.132	-30.907	-22.530	1.00	45.89		N
ANISOU	4065	NZ	LYS	E	339	5332	5798	6308	-1093	-469	-1635	N
ATOM	4066	C	LYS	E	339	19.787	-24.253	-25.032	1.00	39.73		C
ANISOU	4066	C	LYS	E	339	4775	5437	4882	-315	-1112	-753	C
ATOM	4067	O	LYS	E	339	18.632	-24.092	-25.473	1.00	41.88		O
ANISOU	4067	O	LYS	E	339	4892	5855	5167	-273	-1310	-795	O
ATOM	4068	N	ARG	E	340	20.885	-24.049	-25.745	1.00	40.42		N
ANISOU	4068	N	ARG	E	340	5065	5535	4757	-334	-1077	-656	N
ATOM	4069	CA	ARG	E	340	20.863	-23.611	-27.123	1.00	43.90		C
ANISOU	4069	CA	ARG	E	340	5594	6160	4925	-320	-1258	-568	C
ATOM	4070	CB	ARG	E	340	20.961	-22.081	-27.170	1.00	44.64		C
ANISOU	4070	CB	ARG	E	340	5770	6188	5002	-170	-1365	-292	C
ATOM	4071	CG	ARG	E	340	20.849	-21.453	-28.545	1.00	49.08		C
ANISOU	4071	CG	ARG	E	340	6441	6929	5279	-142	-1581	-134	C
ATOM	4072	CD	ARG	E	340	21.496	-20.082	-28.498	1.00	51.89		C
ANISOU	4072	CD	ARG	E	340	6964	7138	5614	-49	-1589	158	C
ATOM	4073	NE	ARG	E	340	21.220	-19.278	-29.683	1.00	56.36		N
ANISOU	4073	NE	ARG	E	340	7638	7837	5940	5	-1831	373	N
ATOM	4074	CZ	ARG	E	340	21.825	-18.121	-29.947	1.00	59.39		C
ANISOU	4074	CZ	ARG	E	340	8212	8114	6241	48	-1858	658	C
ATOM	4075	NH1	ARG	E	340	22.748	-17.647	-29.115	1.00	56.32		N
ANISOU	4075	NH1	ARG	E	340	7907	7494	5997	38	-1655	729	N
ATOM	4076	NH2	ARG	E	340	21.514	-17.438	-31.051	1.00	63.84		N
ANISOU	4076	NH2	ARG	E	340	8887	8799	6569	90	-2097	878	N
ATOM	4077	C	ARG	E	340	22.067	-24.271	-27.797	1.00	44.15		C
ANISOU	4077	C	ARG	E	340	5797	6240	4738	-444	-1118	-630	C
ATOM	4078	O	ARG	E	340	23.203	-24.110	-27.355	1.00	42.69		O
ANISOU	4078	O	ARG	E	340	5728	5923	4568	-452	-937	-561	O
ATOM	4079	N	GLU	E	341	21.819	-25.062	-28.834	1.00	46.84		N
ANISOU	4079	N	GLU	E	341	6132	6780	4884	-542	-1197	-791	N
ATOM	4080	CA	GLU	E	341	22.906	-25.647	-29.629	1.00	47.97		C
ANISOU	4080	CA	GLU	E	341	6424	7010	4792	-651	-1074	-881	C
ATOM	4081	CB	GLU	E	341	22.392	-26.781	-30.528	1.00	50.34		C
ANISOU	4081	CB	GLU	E	341	6666	7504	4956	-770	-1150	-1154	C
ATOM	4082	CG	GLU	E	341	23.492	-27.439	-31.354	1.00	53.33		C
ANISOU	4082	CG	GLU	E	341	7181	7984	5099	-876	-1010	-1297	C
ATOM	4083	CD	GLU	E	341	23.258	-28.925	-31.594	1.00	57.92		C
ANISOU	4083	CD	GLU	E	341	7691	8590	5726	-998	-966	-1652	C
ATOM	4084	OE1	GLU	E	341	22.554	-29.280	-32.578	1.00	60.51		O
ANISOU	4084	OE1	GLU	E	341	7977	9149	5864	-1070	-1129	-1802	O
ATOM	4085	OE2	GLU	E	341	23.805	-29.734	-30.804	1.00	56.96		O
ANISOU	4085	OE2	GLU	E	341	7564	8249	5831	-1021	-776	-1779	O
ATOM	4086	C	GLU	E	341	23.631	-24.578	-30.459	1.00	48.77		C
ANISOU	4086	C	GLU	E	341	6704	7214	4614	-626	-1112	-642	C
ATOM	4087	O	GLU	E	341	22.992	-23.827	-31.186	1.00	51.13		O
ANISOU	4087	O	GLU	E	341	7019	7655	4752	-576	-1330	-491	O
ATOM	4088	N	GLU	E	342	24.961	-24.539	-30.346	1.00	47.41		N
ANISOU	4088	N	GLU	E	342	6657	6969	4389	-668	-901	-607	N
ATOM	4089	CA	GLU	E	342	25.803	-23.487	-30.926	1.00	48.38		C
ANISOU	4089	CA	GLU	E	342	6949	7146	4286	-674	-880	-363	C
ATOM	4090	CB	GLU	E	342	26.214	-22.470	-29.845	1.00	46.46		C
ANISOU	4090	CB	GLU	E	342	6731	6650	4270	-584	-806	-148	C
ATOM	4091	CG	GLU	E	342	25.137	-21.435	-29.509	1.00	48.29		C
ANISOU	4091	CG	GLU	E	342	6913	6795	4640	-445	-1019	45	C
ATOM	4092	CD	GLU	E	342	25.495	-20.511	-28.349	1.00	45.94		C
ANISOU	4092	CD	GLU	E	342	6626	6233	4596	-356	-937	198	C
ATOM	4093	OE1	GLU	E	342	24.616	-20.290	-27.494	1.00	46.26		O
ANISOU	4093	OE1	GLU	E	342	6536	6152	4889	-245	-1012	183	O
ATOM	4094	OE2	GLU	E	342	26.637	-19.996	-28.287	1.00	46.95		O
ANISOU	4094	OE2	GLU	E	342	6881	6288	4671	-406	-794	315	O
ATOM	4095	C	GLU	E	342	27.072	-24.059	-31.538	1.00	48.22		C
ANISOU	4095	C	GLU	E	342	7028	7239	4056	-797	-676	-486	C
ATOM	4096	O	GLU	E	342	27.501	-25.153	-31.181	1.00	47.12		O
ANISOU	4096	O	GLU	E	342	6828	7042	4033	-837	-521	-734	O
ATOM	4097	N	GLU	E	343	27.682	-23.303	-32.446	1.00	49.43		N
ANISOU	4097	N	GLU	E	343	7330	7543	3907	-857	-673	-307	N

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Figure 18 (continued)

ATOM	4098	CA	GLU	E	343	28.980	23.660	-32.998	1.00	49.39	
ANISOU	4098	CA	GLU	E	343	7407	7663	3698	-977	-452	-405
ATOM	4099	CB	GLU	E	343	28.974	-23.575	-34.524	1.00	53.28	
ANISOU	4099	CB	GLU	E	343	8011	8493	3737	-1090	-528	-387
ATOM	4100	CG	GLU	E	343	28.356	-24.787	-35.191	1.00	55.60	
ANISOU	4100	CG	GLU	E	343	8229	8984	3914	-1138	-598	-712
ATOM	4101	CD	GLU	E	343	28.384	-24.690	-36.695	1.00	61.06	
ANISOU	4101	CD	GLU	E	343	9037	10045	4118	-1260	-671	-706
ATOM	4102	OE1	GLU	E	343	29.354	-24.119	-37.237	1.00	63.45	
ANISOU	4102	OE1	GLU	E	343	9471	10471	4165	-1353	-536	-563
ATOM	4103	OE2	GLU	E	343	27.437	-25.188	-37.339	1.00	64.46	
ANISOU	4103	OE2	GLU	E	343	9423	10659	4409	-1277	-862	-848
ATOM	4104	C	GLU	E	343	30.096	-22.797	-32.435	1.00	47.41	
ANISOU	4104	C	GLU	E	343	7226	7262	3525	-983	-284	-209
ATOM	4105	O	GLU	E	343	30.107	-21.573	-32.600	1.00	47.73	
ANISOU	4105	O	GLU	E	343	7377	7275	3484	-980	-360	94
ATOM	4106	N	VAL	E	344	31.046	-23.454	-31.778	1.00	44.90	
ANISOU	4106	N	VAL	E	344	6843	6842	3375	-993	-63	-387
ATOM	4107	CA	VAL	E	344	32.197	-22.761	-31.209	1.00	43.05	
ANISOU	4107	CA	VAL	E	344	6643	6486	3226	-1012	109	-252
ATOM	4108	CB	VAL	E	344	32.331	-23.057	-29.702	1.00	39.90	
ANISOU	4108	CB	VAL	E	344	6131	5809	3220	-906	177	-321
ATOM	4109	CG1	VAL	E	344	31.101	-22.518	-28.950	1.00	38.32	
ANISOU	4109	CG1	VAL	E	344	5899	5435	3226	-792	-14	-182
ATOM	4110	CG2	VAL	E	344	32.487	-24.553	-29.465	1.00	38.73	
ANISOU	4110	CG2	VAL	E	344	5876	5650	3188	-889	269	-644
ATOM	4111	C	VAL	E	344	33.490	-23.102	-31.963	1.00	44.32	
ANISOU	4111	C	VAL	E	344	6833	6849	3159	-1141	328	-377
ATOM	4112	O	VAL	E	344	33.591	-24.158	-32.616	1.00	44.99	
ANISOU	4112	O	VAL	E	344	6878	7105	3111	-1182	386	-649
ATOM	4113	N	LEU	E	345	34.471	-22.206	-31.883	1.00	43.87	
ANISOU	4113	N	LEU	E	345	6834	6773	3060	-1212	457	-199
ATOM	4114	CA	LEU	E	345	35.747	-22.449	-32.550	1.00	45.58	
ANISOU	4114	CA	LEU	E	345	7050	7199	3071	-1345	689	-320
ATOM	4115	CB	LEU	E	345	36.032	-21.390	-33.626	1.00	48.71	
ANISOU	4115	CB	LEU	E	345	7610	7796	3101	-1510	700	-58
ATOM	4116	CG	LEU	E	345	35.431	-21.671	-35.017	1.00	53.49	
ANISOU	4116	CG	LEU	E	345	8310	8712	3302	-1592	600	-90
ATOM	4117	CD1	LEU	E	345	35.111	-20.382	-35.775	1.00	57.03	
ANISOU	4117	CD1	LEU	E	345	8960	9243	3466	-1690	468	304
ATOM	4118	CD2	LEU	E	345	36.333	-22.561	-35.889	1.00	56.50	
ANISOU	4118	CD2	LEU	E	345	8642	9402	3424	-1714	825	-394
ATOM	4119	C	LEU	E	345	36.896	-22.595	-31.559	1.00	43.09	
ANISOU	4119	C	LEU	E	345	6618	6736	3019	-1317	884	-414
ATOM	4120	O	LEU	E	345	37.045	-21.789	-30.628	1.00	41.78	
ANISOU	4120	O	LEU	E	345	6453	6357	3066	-1279	869	-231
ATOM	4121	N	THR	E	346	37.683	-23.651	-31.742	1.00	42.92	
ANISOU	4121	N	THR	E	346	6486	6827	2994	-1323	1054	-721
ATOM	4122	CA	THR	E	346	38.811	-23.942	-30.852	1.00	41.13	
ANISOU	4122	CA	THR	E	346	6122	6488	3017	-1274	1224	-845
ATOM	4123	CB	THR	E	346	39.287	-25.407	-30.977	1.00	40.99	
ANISOU	4123	CB	THR	E	346	5972	6534	3070	-1207	1337	-1229
ATOM	4124	OG1	THR	E	346	39.774	-25.630	-32.308	1.00	42.56	
ANISOU	4124	OG1	THR	E	346	6186	7057	2929	-1338	1471	-1380
ATOM	4125	CG2	THR	E	346	38.155	-26.375	-30.640	1.00	38.07	
ANISOU	4125	CG2	THR	E	346	5595	6009	2863	-1084	1175	-1361
ATOM	4126	C	THR	E	346	39.986	-23.035	-31.189	1.00	43.36	
ANISOU	4126	C	THR	E	346	6415	6908	3153	-1428	1402	-722
ATOM	4127	O	THR	E	346	40.054	-22.483	-32.302	1.00	45.98	
ANISOU	4127	O	THR	E	346	6857	7467	3144	-1588	1441	-607
ATOM	4128	N	GLY	E	347	40.919	-22.907	-30.244	1.00	42.34	
ANISOU	4128	N	GLY	E	347	6167	6654	3267	-1393	1511	-749
ATOM	4129	CA	GLY	E	347	42.178	-22.198	-30.484	1.00	44.62	
ANISOU	4129	CA	GLY	E	347	6414	7080	3459	-1551	1710	-693
ATOM	4130	C	GLY	E	347	42.936	-22.690	-31.716	1.00	48.49	
ANISOU	4130	C	GLY	E	347	6856	7916	3651	-1680	1913	-899
ATOM	4131	O	GLY	E	347	43.950	-22.101	-32.104	1.00	50.47	
ANISOU	4131	O	GLY	E	347	7071	8338	3766	-1851	2101	-856
ATOM	4132	N	ASN	E	348	42.442	-23.772	-32.316	1.00	49.38	
ANISOU	4132	N	ASN	E	348	6961	8138	3665	-1611	1882	-1139
ATOM	4133	CA	ASN	E	348	43.017	-24.343	-33.522	1.00	53.66	

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Figure 18 (continued)

ANISOU	4133	CA	ASN	E	348	7459	9021	3906	-1720	2064	-1385	C
ATOM	4134	CB	ASN	E	348	43.303	-25.835	-33.302	1.00	53.90		C
ANISOU	4134	CB	ASN	E	348	7316	9024	4141	-1548	2123	-1804	C
ATOM	4135	CG	ASN	E	348	44.284	-26.389	-34.308	1.00	57.89		C
ANISOU	4135	CG	ASN	E	348	7705	9868	4422	-1639	2373	-2119	C
ATOM	4136	OD1	ASN	E	348	45.044	-25.643	-34.912	1.00	61.94		O
ANISOU	4136	OD1	ASN	E	348	8216	10630	4689	-1832	2550	-2031	O
ATOM	4137	ND2	ASN	E	348	44.272	-27.699	-34.497	1.00	59.86		N
ANISOU	4137	ND2	ASN	E	348	7856	10127	4760	-1508	2399	-2498	N
ATOM	4138	C	ASN	E	348	42.113	-24.173	-34.739	1.00	55.81		C
ANISOU	4138	C	ASN	E	348	7918	9505	3784	-1834	1968	-1293	C
ATOM	4139	O	ASN	E	348	42.448	-24.620	-35.833	1.00	59.14		O
ANISOU	4139	O	ASN	E	348	8330	10245	3896	-1941	2104	-1495	O
ATOM	4140	N	LEU	E	349	40.962	-23.532	-34.544	1.00	54.75		N
ANISOU	4140	N	LEU	E	349	7942	9207	3654	-1805	1726	-1000	N
ATOM	4141	CA	LEU	E	349	39.927	-23.424	-35.585	1.00	56.68		C
ANISOU	4141	CA	LEU	E	349	8352	9623	3560	-1871	1566	-904	C
ATOM	4142	CB	LEU	E	349	40.470	-22.725	-36.850	1.00	60.70		C
ANISOU	4142	CB	LEU	E	349	8981	10485	3599	-2117	1702	-766	C
ATOM	4143	CG	LEU	E	349	41.305	-21.440	-36.688	1.00	61.95		C
ANISOU	4143	CG	LEU	E	349	9196	10613	3728	-2277	1827	-450	C
ATOM	4144	CD1	LEU	E	349	42.160	-21.185	-37.940	1.00	65.27		C
ANISOU	4144	CD1	LEU	E	349	9667	11441	3693	-2540	2062	-454	C
ATOM	4145	CD2	LEU	E	349	40.447	-20.215	-36.321	1.00	60.69		C
ANISOU	4145	CD2	LEU	E	349	9223	10201	3636	-2262	1587	-7	C
ATOM	4146	C	LEU	E	349	39.218	-24.767	-35.944	1.00	56.66		C
ANISOU	4146	C	LEU	E	349	8297	9686	3545	-1769	1484	-1246	C
ATOM	4147	O	LEU	E	349	38.866	-24.994	-37.106	1.00	59.07		O
ANISOU	4147	O	LEU	E	349	8682	10278	3484	-1869	1460	-1327	O
ATOM	4148	N	GLN	E	350	39.005	-25.636	-34.947	1.00	53.61		N
ANISOU	4148	N	GLN	E	350	7787	9033	3550	-1586	1436	-1439	N
ATOM	4149	CA	GLN	E	350	38.133	-26.811	-35.108	1.00	53.10		C
ANISOU	4149	CA	GLN	E	350	7691	8940	3543	-1494	1316	-1711	C
ATOM	4150	CB	GLN	E	350	38.663	-28.028	-34.332	1.00	51.62		C
ANISOU	4150	CB	GLN	E	350	7339	8560	3716	-1348	1419	-2042	C
ATOM	4151	CG	GLN	E	350	37.873	-29.328	-34.565	1.00	52.67		C
ANISOU	4151	CG	GLN	E	350	7445	8647	3921	-1280	1324	-2357	C
ATOM	4152	CD	GLN	E	350	38.338	-30.499	-33.702	1.00	50.84		C
ANISOU	4152	CD	GLN	E	350	7077	8154	4087	-1123	1397	-2632	C
ATOM	4153	OE1	GLN	E	350	39.291	-30.387	-32.937	1.00	49.10		O
ANISOU	4153	OE1	GLN	E	350	6767	7811	4078	-1049	1513	-2603	O
ATOM	4154	NE2	GLN	E	350	37.658	-31.631	-33.831	1.00	50.04		N
ANISOU	4154	NE2	GLN	E	350	6962	7961	4090	-1076	1317	-2896	N
ATOM	4155	C	GLN	E	350	36.738	-26.435	-34.620	1.00	51.00		C
ANISOU	4155	C	GLN	E	350	7502	8477	3398	-1419	1039	-1482	C
ATOM	4156	O	GLN	E	350	36.586	-25.851	-33.553	1.00	48.42		O
ANISOU	4156	O	GLN	E	350	7168	7889	3341	-1337	973	-1266	O
ATOM	4157	N	THR	E	351	35.720	-26.751	-35.413	1.00	52.50		N
ANISOU	4157	N	THR	E	351	7754	8813	3381	-1451	877	-1545	N
ATOM	4158	CA	THR	E	351	34.345	-26.457	-35.043	1.00	51.35		C
ANISOU	4158	CA	THR	E	351	7647	8521	3345	-1378	610	-1367	C
ATOM	4159	CB	THR	E	351	33.426	-26.373	-36.272	1.00	54.37		C
ANISOU	4159	CB	THR	E	351	8122	9185	3350	-1464	430	-1351	C
ATOM	4160	OG1	THR	E	351	33.904	-25.359	-37.160	1.00	57.38		O
ANISOU	4160	OG1	THR	E	351	8642	9811	3347	-1597	470	-1106	O
ATOM	4161	CG2	THR	E	351	31.995	-26.030	-35.851	1.00	54.10		C
ANISOU	4161	CG2	THR	E	351	8091	9006	3461	-1372	144	-1173	C
ATOM	4162	C	THR	E	351	33.814	-27.529	-34.107	1.00	48.97		C
ANISOU	4162	C	THR	E	351	7225	7955	3425	-1251	560	-1586	C
ATOM	4163	O	THR	E	351	33.904	-28.716	-34.421	1.00	49.72		O
ANISOU	4163	O	THR	E	351	7258	8093	3539	-1254	623	-1930	O
ATOM	4164	N	LEU	E	352	33.273	-27.098	-32.966	1.00	45.92		N
ANISOU	4164	N	LEU	E	352	6814	7296	3339	-1150	455	-1389	N
ATOM	4165	CA	LEU	E	352	32.556	-27.983	-32.059	1.00	44.43		C
ANISOU	4165	CA	LEU	E	352	6531	6865	3485	-1055	383	-1532	C
ATOM	4166	CB	LEU	E	352	33.221	-28.020	-30.676	1.00	41.32		C
ANISOU	4166	CB	LEU	E	352	6073	6188	3439	-957	494	-1483	C
ATOM	4167	CG	LEU	E	352	34.668	-28.498	-30.506	1.00	41.46		C
ANISOU	4167	CG	LEU	E	352	6040	6188	3524	-941	718	-1642	C
ATOM	4168	CD1	LEU	E	352	35.062	-28.343	-29.037	1.00	38.52		C
ANISOU	4168	CD1	LEU	E	352	5612	5540	3485	-837	755	-1527	C

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Figure 18 (continued)

ATOM	4169	CD2	LEU	E	352	34.921	-29.937	-30.990	1.00	42.58	
ANISOU	4169	CD2	LEU	E	352	6127	6363	3689	-938	799	-2023
ATOM	4170	C	LEU	E	352	31.099	-27.545	-31.923	1.00	44.26	
ANISOU	4170	C	LEU	E	352	6514	6808	3497	-1026	139	-1372
ATOM	4171	O	LEU	E	352	30.819	-26.372	-31.696	1.00	43.64	
ANISOU	4171	O	LEU	E	352	6483	6697	3400	-997	47	-1074
ATOM	4172	N	LYS	E	353	30.182	-28.496	-32.077	1.00	45.32	
ANISOU	4172	N	LYS	E	353	6585	6943	3691	-1035	36	-1586
ATOM	4173	CA	LYS	E	353	28.773	-28.271	-31.800	1.00	45.51	
ANISOU	4173	CA	LYS	E	353	6559	6921	3812	-1002	-182	-1491
ATOM	4174	CB	LYS	E	353	27.921	-29.158	-32.701	1.00	47.91	
ANISOU	4174	CB	LYS	E	353	6823	7400	3979	-1081	-305	-1748
ATOM	4175	CG	LYS	E	353	26.524	-28.628	-33.009	1.00	50.14	
ANISOU	4175	CG	LYS	E	353	7063	7798	4190	-1071	-572	-1626
ATOM	4176	CD	LYS	E	353	25.789	-29.583	-33.964	1.00	53.59	
ANISOU	4176	CD	LYS	E	353	7450	8440	4472	-1172	-688	-1924
ATOM	4177	CE	LYS	E	353	24.859	-28.824	-34.921	1.00	59.05	
ANISOU	4177	CE	LYS	E	353	8155	9414	4866	-1182	-955	-1782
ATOM	4178	NZ	LYS	E	353	24.338	-29.667	-36.045	1.00	61.33	
ANISOU	4178	NZ	LYS	E	353	8416	9973	4912	-1300	-1066	-2081
ATOM	4179	C	LYS	E	353	28.524	-28.604	-30.336	1.00	42.55	
ANISOU	4179	C	LYS	E	353	6095	6234	3837	-922	-146	-1482
ATOM	4180	O	LYS	E	353	28.662	-29.747	-29.922	1.00	42.17	
ANISOU	4180	O	LYS	E	353	5995	6049	3977	-931	-59	-1705
ATOM	4181	N	ILE	E	354	28.186	-27.597	-29.545	1.00	41.27	
ANISOU	4181	N	ILE	E	354	5923	5956	3801	-845	-209	-1222
ATOM	4182	CA	ILE	E	354	27.891	-27.795	-28.136	1.00	39.35	
ANISOU	4182	CA	ILE	E	354	5599	5456	3897	-780	-175	-1195
ATOM	4183	CB	ILE	E	354	28.992	-27.170	-27.205	1.00	37.50	
ANISOU	4183	CB	ILE	E	354	5404	5064	3781	-718	-28	-1037
ATOM	4184	CG1	ILE	E	354	29.069	-25.650	-27.368	1.00	37.51	
ANISOU	4184	CG1	ILE	E	354	5473	5114	3665	-685	-92	-761
ATOM	4185	CD1	ILE	E	354	29.800	-24.918	-26.225	1.00	35.25	
ANISOU	4185	CD1	ILE	E	354	5197	4643	3554	-625	11	-607
ATOM	4186	CG2	ILE	E	354	30.370	-27.816	-27.461	1.00	36.99	
ANISOU	4186	CG2	ILE	E	354	5377	5012	3665	-747	157	-1184
ATOM	4187	C	ILE	E	354	26.513	-27.229	-27.775	1.00	39.58	
ANISOU	4187	C	ILE	E	354	5544	5471	4023	-734	-358	-1077
ATOM	4188	O	ILE	E	354	26.029	-26.280	-28.412	1.00	40.69	
ANISOU	4188	O	ILE	E	354	5712	5749	4001	-707	-510	-920
ATOM	4189	N	ARG	E	355	25.880	-27.817	-26.764	1.00	38.29	
ANISOU	4189	N	ARG	E	355	5277	5147	4124	-726	-345	-1150
ATOM	4190	CA	ARG	E	355	24.674	-27.225	-26.217	1.00	38.79	
ANISOU	4190	CA	ARG	E	355	5231	5189	4318	-672	-479	-1049
ATOM	4191	CB	ARG	E	355	23.713	-28.293	-25.719	1.00	39.53	
ANISOU	4191	CB	ARG	E	355	5192	5223	4605	-741	-490	-1232
ATOM	4192	CG	ARG	E	355	23.039	-29.024	-26.844	1.00	45.52	
ANISOU	4192	CG	ARG	E	355	5905	6160	5230	-836	-612	-1430
ATOM	4193	CD	ARG	E	355	22.085	-30.055	-26.303	1.00	53.44	
ANISOU	4193	CD	ARG	E	355	6770	7084	6450	-932	-613	-1609
ATOM	4194	NE	ARG	E	355	22.114	-31.290	-27.088	1.00	59.58	
ANISOU	4194	NE	ARG	E	355	7564	7903	7169	-1061	-606	-1876
ATOM	4195	CZ	ARG	E	355	21.599	-32.454	-26.686	1.00	62.66	
ANISOU	4195	CZ	ARG	E	355	7882	8169	7757	-1181	-561	-2064
ATOM	4196	NH1	ARG	E	355	21.011	-32.555	-25.495	1.00	61.48	
ANISOU	4196	NH1	ARG	E	355	7637	7868	7853	-1201	-510	-1999
ATOM	4197	NH2	ARG	E	355	21.672	-33.527	-27.477	1.00	65.58	
ANISOU	4197	NH2	ARG	E	355	8278	8563	8076	-1295	-561	-2326
ATOM	4198	C	ARG	E	355	25.064	-26.273	-25.116	1.00	36.09	
ANISOU	4198	C	ARG	E	355	4905	4689	4118	-577	-408	-850
ATOM	4199	O	ARG	E	355	25.478	-26.709	-24.035	1.00	34.96	
ANISOU	4199	O	ARG	E	355	4749	4377	4156	-577	-270	-877
ATOM	4200	N	VAL	E	356	24.969	-24.977	-25.411	1.00	35.53	
ANISOU	4200	N	VAL	E	356	4875	4668	3958	-499	-510	-651
ATOM	4201	CA	VAL	E	356	25.331	-23.934	-24.460	1.00	32.64	
ANISOU	4201	CA	VAL	E	356	4532	4149	3721	-411	-457	-475
ATOM	4202	CB	VAL	E	356	25.631	-22.604	-25.178	1.00	33.72	
ANISOU	4202	CB	VAL	E	356	4781	4333	3698	-360	-549	-256
ATOM	4203	CG1	VAL	E	356	25.785	-21.456	-24.168	1.00	31.57	
ANISOU	4203	CG1	VAL	E	356	4517	3879	3601	-265	-523	-99
ATOM	4204	CG2	VAL	E	356	26.875	-22.756	-26.040	1.00	33.21	

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Figure 18 (continued)

ANISOU	4204	CG2	VAL	E	356	4859	4358	3403	-450	-446	-246	C
ATOM	4205	C	VAL	E	356	24.208	-23.765	-23.447	1.00	31.55		C
ANISOU	4205	C	VAL	E	356	4242	3932	3814	-346	-509	-488	C
ATOM	4206	O	VAL	E	356	23.059	-23.558	-23.834	1.00	32.82		O
ANISOU	4206	O	VAL	E	356	4300	4190	3980	-309	-675	-500	O
ATOM	4207	N	HIS	E	357	24.545	-23.882	-22.160	1.00	28.73		N
ANISOU	4207	N	HIS	E	357	3860	3421	3635	-336	-366	-497	N
ATOM	4208	CA	HIS	E	357	23.592	-23.583	-21.092	1.00	27.88		C
ANISOU	4208	CA	HIS	E	357	3613	3252	3728	-280	-380	-505	C
ATOM	4209	CB	HIS	E	357	23.842	-24.457	-19.864	1.00	26.86		C
ANISOU	4209	CB	HIS	E	357	3453	3014	3739	-344	-211	-589	C
ATOM	4210	CG	HIS	E	357	23.454	-25.890	-20.068	1.00	25.78		C
ANISOU	4210	CG	HIS	E	357	3270	2906	3619	-465	-186	-748	C
ATOM	4211	ND1	HIS	E	357	22.343	-26.453	-19.475	1.00	27.87		N
ANISOU	4211	ND1	HIS	E	357	3387	3180	4021	-525	-182	-843	N
ATOM	4212	CE1	HIS	E	357	22.243	-27.719	-19.843	1.00	27.26		C
ANISOU	4212	CE1	HIS	E	357	3312	3100	3943	-648	-160	-977	C
ATOM	4213	NE2	HIS	E	357	23.247	-27.995	-20.658	1.00	28.04		N
ANISOU	4213	NE2	HIS	E	357	3549	3196	3910	-650	-149	-990	N
ATOM	4214	CD2	HIS	E	357	24.014	-26.867	-20.820	1.00	26.06		C
ANISOU	4214	CD2	HIS	E	357	3383	2956	3561	-544	-159	-844	C
ATOM	4215	C	HIS	E	357	23.597	-22.112	-20.736	1.00	27.57		C
ANISOU	4215	C	HIS	E	357	3590	3142	3745	-155	-429	-350	C
ATOM	4216	O	HIS	E	357	24.660	-21.522	-20.518	1.00	26.56		O
ANISOU	4216	O	HIS	E	357	3583	2922	3587	-140	-349	-249	O
ATOM	4217	N	GLU	E	358	22.399	-21.527	-20.715	1.00	28.31		N
ANISOU	4217	N	GLU	E	358	3550	3275	3930	-63	-567	-348	N
ATOM	4218	CA	GLU	E	358	22.216	-20.116	-20.449	1.00	28.24		C
ANISOU	4218	CA	GLU	E	358	3543	3178	4010	80	-644	-222	C
ATOM	4219	CB	GLU	E	358	21.452	-19.463	-21.593	1.00	30.21		C
ANISOU	4219	CB	GLU	E	358	3775	3519	4186	174	-884	-133	C
ATOM	4220	CG	GLU	E	358	22.112	-19.703	-22.953	1.00	31.27		C
ANISOU	4220	CG	GLU	E	358	4073	3757	4051	94	-943	-48	C
ATOM	4221	CD	GLU	E	358	21.291	-19.234	-24.129	1.00	35.58		C
ANISOU	4221	CD	GLU	E	358	4604	4435	4480	170	-1200	41	C
ATOM	4222	OE1	GLU	E	358	20.044	-19.336	-24.097	1.00	36.53		O
ANISOU	4222	OE1	GLU	E	358	4532	4641	4708	242	-1341	-49	O
ATOM	4223	OE2	GLU	E	358	21.915	-18.767	-25.108	1.00	40.00		O
ANISOU	4223	OE2	GLU	E	358	5342	5029	4827	150	-1264	206	O
ATOM	4224	C	GLU	E	358	21.481	-19.944	-19.121	1.00	28.03		C
ANISOU	4224	C	GLU	E	358	3350	3095	4206	136	-577	-318	C
ATOM	4225	O	GLU	E	358	20.399	-20.505	-18.923	1.00	28.19		O
ANISOU	4225	O	GLU	E	358	3188	3214	4310	121	-606	-448	O
ATOM	4226	N	GLY	E	359	22.095	-19.173	-18.223	1.00	26.47		N
ANISOU	4226	N	GLY	E	359	3210	2755	4092	185	-480	-269	N
ATOM	4227	CA	GLY	E	359	21.487	-18.828	-16.971	1.00	25.81		C
ANISOU	4227	CA	GLY	E	359	2985	2630	4193	246	-409	-364	C
ATOM	4228	C	GLY	E	359	22.386	-19.086	-15.810	1.00	23.40		C
ANISOU	4228	C	GLY	E	359	2743	2248	3898	169	-211	-393	C
ATOM	4229	O	GLY	E	359	23.253	-19.970	-15.866	1.00	23.25		O
ANISOU	4229	O	GLY	E	359	2827	2236	3772	53	-119	-381	O
ATOM	4230	N	TYR	E	360	22.143	-18.340	-14.742	1.00	23.60		N
ANISOU	4230	N	TYR	E	360	2697	2212	4057	243	-154	-447	N
ATOM	4231	CA	TYR	E	360	22.840	-18.486	-13.476	1.00	22.59		C
ANISOU	4231	CA	TYR	E	360	2606	2041	3936	180	21	-491	C
ATOM	4232	CB	TYR	E	360	22.563	-17.303	-12.523	1.00	24.19		C
ANISOU	4232	CB	TYR	E	360	2742	2170	4279	292	47	-560	C
ATOM	4233	CG	TYR	E	360	23.051	-17.586	-11.112	1.00	23.41		C
ANISOU	4233	CG	TYR	E	360	2647	2087	4160	212	225	-639	C
ATOM	4234	CD1	TYR	E	360	24.414	-17.521	-10.793	1.00	22.30		C
ANISOU	4234	CD1	TYR	E	360	2665	1873	3936	153	290	-572	C
ATOM	4235	CE1	TYR	E	360	24.866	-17.828	-9.505	1.00	23.08		C
ANISOU	4235	CE1	TYR	E	360	2769	2011	3991	82	427	-634	C
ATOM	4236	CZ	TYR	E	360	23.948	-18.220	-8.543	1.00	23.76		C
ANISOU	4236	CZ	TYR	E	360	2717	2212	4098	51	519	-752	C
ATOM	4237	OH	TYR	E	360	24.387	-18.506	-7.272	1.00	25.07		O
ANISOU	4237	OH	TYR	E	360	2903	2436	4185	-28	647	-795	O
ATOM	4238	CE2	TYR	E	360	22.593	-18.299	-8.837	1.00	23.70		C
ANISOU	4238	CE2	TYR	E	360	2542	2282	4181	91	483	-829	C
ATOM	4239	CD2	TYR	E	360	22.156	-17.984	-10.118	1.00	24.20		C
ANISOU	4239	CD2	TYR	E	360	2586	2303	4305	179	326	-777	C

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Figure 18 (continued)

ATOM	4240	C	TYR	E	360	22.448	-19.792	-12.804	1.00	22.00		C
ANISOU	4240	C	TYR	E	360	2446	2074	3840	52	139	-585	C
ATOM	4241	O	TYR	E	360	21.253	-20.113	-12.717	1.00	23.47		O
ANISOU	4241	O	TYR	E	360	2461	2361	4097	47	124	-681	O
ATOM	4242	N	GLU	E	361	23.457	-20.544	-12.352	1.00	20.15		N
ANISOU	4242	N	GLU	E	361	2328	1813	3516	-52	249	-550	N
ATOM	4243	CA	GLU	E	361	23.240	-21.781	-11.604	1.00	20.24		C
ANISOU	4243	CA	GLU	E	361	2302	1881	3506	-182	365	-600	C
ATOM	4244	CB	GLU	E	361	23.280	-23.001	-12.533	1.00	20.04		C
ANISOU	4244	CB	GLU	E	361	2319	1870	3425	-274	330	-587	C
ATOM	4245	CG	GLU	E	361	22.084	-23.147	-13.487	1.00	20.79		C
ANISOU	4245	CG	GLU	E	361	2284	2055	3561	-270	215	-651	C
ATOM	4246	CD	GLU	E	361	22.262	-24.295	-14.477	1.00	22.54		C
ANISOU	4246	CD	GLU	E	361	2567	2285	3713	-366	176	-664	C
ATOM	4247	OE1	GLU	E	361	23.309	-24.332	-15.160	1.00	21.63		O
ANISOU	4247	OE1	GLU	E	361	2597	2118	3502	-350	153	-602	O
ATOM	4248	OE2	GLU	E	361	21.336	-25.150	-14.592	1.00	25.55		O
ANISOU	4248	OE2	GLU	E	361	2839	2731	4140	-464	173	-754	O
ATOM	4249	C	GLU	E	361	24.332	-21.935	-10.561	1.00	19.23		C
ANISOU	4249	C	GLU	E	361	2283	1704	3319	-225	479	-560	C
ATOM	4250	O	GLU	E	361	25.489	-21.586	-10.802	1.00	18.49		O
ANISOU	4250	O	GLU	E	361	2312	1537	3174	-195	463	-490	O
ATOM	4251	N	GLU	E	362	23.965	-22.487	-9.413	1.00	19.76		N
ANISOU	4251	N	GLU	E	362	2298	1827	3381	-307	593	-601	N
ATOM	4252	CA	GLU	E	362	24.937	-22.899	-8.402	1.00	19.50		C
ANISOU	4252	CA	GLU	E	362	2372	1771	3266	-364	684	-547	C
ATOM	4253	CB	GLU	E	362	24.684	-22.172	-7.076	1.00	19.25		C
ANISOU	4253	CB	GLU	E	362	2279	1811	3225	-354	772	-615	C
ATOM	4254	CG	GLU	E	362	25.760	-22.371	-6.025	1.00	21.30		C
ANISOU	4254	CG	GLU	E	362	2650	2069	3375	-395	835	-559	C
ATOM	4255	CD	GLU	E	362	25.377	-21.770	-4.703	1.00	25.48		C
ANISOU	4255	CD	GLU	E	362	3112	2708	3863	-409	932	-651	C
ATOM	4256	OE1	GLU	E	362	25.884	-20.702	-4.358	1.00	29.65		O
ANISOU	4256	OE1	GLU	E	362	3651	3221	4393	-334	920	-709	O
ATOM	4257	OE2	GLU	E	362	24.528	-22.338	-4.008	1.00	33.55		O
ANISOU	4257	OE2	GLU	E	362	4062	3839	4848	-507	1030	-680	O
ATOM	4258	C	GLU	E	362	24.871	-24.422	-8.213	1.00	19.37		C
ANISOU	4258	C	GLU	E	362	2397	1748	3215	-498	738	-502	C
ATOM	4259	O	GLU	E	362	23.795	-24.978	-8.171	1.00	20.68		O
ANISOU	4259	O	GLU	E	362	2465	1971	3423	-582	771	-549	O
ATOM	4260	N	PHE	E	363	26.034	-25.068	-8.098	1.00	19.27		N
ANISOU	4260	N	PHE	E	363	2522	1656	3143	-514	741	-414	N
ATOM	4261	CA	PHE	E	363	26.136	-26.509	-7.875	1.00	20.25		C
ANISOU	4261	CA	PHE	E	363	2717	1722	3257	-621	778	-353	C
ATOM	4262	CB	PHE	E	363	26.740	-27.207	-9.116	1.00	19.58		C
ANISOU	4262	CB	PHE	E	363	2705	1534	3201	-599	705	-347	C
ATOM	4263	CG	PHE	E	363	25.919	-27.074	-10.368	1.00	19.78		C
ANISOU	4263	CG	PHE	E	363	2651	1593	3274	-596	638	-432	C
ATOM	4264	CD1	PHE	E	363	24.935	-28.007	-10.676	1.00	22.26		C
ANISOU	4264	CD1	PHE	E	363	2909	1905	3645	-708	644	-486	C
ATOM	4265	CE1	PHE	E	363	24.176	-27.899	-11.843	1.00	22.61		C
ANISOU	4265	CE1	PHE	E	363	2868	2006	3717	-706	560	-575	C
ATOM	4266	CZ	PHE	E	363	24.434	-26.853	-12.731	1.00	21.83		C
ANISOU	4266	CZ	PHE	E	363	2762	1956	3576	-585	467	-582	C
ATOM	4267	CE2	PHE	E	363	25.409	-25.906	-12.425	1.00	21.29		C
ANISOU	4267	CE2	PHE	E	363	2764	1866	3461	-485	474	-512	C
ATOM	4268	CD2	PHE	E	363	26.145	-26.028	-11.248	1.00	21.29		C
ANISOU	4268	CD2	PHE	E	363	2826	1817	3445	-493	560	-452	C
ATOM	4269	C	PHE	E	363	27.072	-26.809	-6.708	1.00	20.24		C
ANISOU	4269	C	PHE	E	363	2818	1699	3172	-634	823	-258	C
ATOM	4270	O	PHE	E	363	28.019	-26.078	-6.466	1.00	18.19		O
ANISOU	4270	O	PHE	E	363	2595	1448	2868	-549	797	-245	O
ATOM	4271	N	THR	E	364	26.798	-27.908	-6.012	1.00	21.35		N
ANISOU	4271	N	THR	E	364	3007	1811	3294	-749	880	-184	N
ATOM	4272	CA	THR	E	364	27.846	-28.619	-5.311	1.00	21.53		C
ANISOU	4272	CA	THR	E	364	3165	1757	3258	-747	870	-57	C
ATOM	4273	CB	THR	E	364	27.360	-29.262	-3.994	1.00	23.12		C
ANISOU	4273	CB	THR	E	364	3410	2001	3374	-884	958	47	C
ATOM	4274	OG1	THR	E	364	26.505	-30.365	-4.288	1.00	23.16		O
ANISOU	4274	OG1	THR	E	364	3422	1920	3459	-1022	996	71	O
ATOM	4275	CG2	THR	E	364	26.661	-28.251	-3.101	1.00	21.80		C

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Figure 18 (continued)

ANISOU	4275	CG2	THR	E	364	3139	2030	3113	-919	1046	-24	C
ATOM	4276	C	THR	E	364	28.359	-29.730	-6.241	1.00	21.92		C
ANISOU	4276	C	THR	E	364	3296	1633	3398	-732	808	-30	C
ATOM	4277	O	THR	E	364	27.586	-30.289	-7.010	1.00	21.17		O
ANISOU	4277	O	THR	E	364	3168	1488	3387	-800	812	-88	O
ATOM	4278	N	MSE	E	365	29.664	-30.009	-6.154	1.00	21.90		N
ANISOU	4278	N	MSE	E	365	3384	1553	3386	-638	750	34	N
ATOM	4279	CA	MSE	E	365	30.337	-31.060	-6.894	1.00	23.37		C
ANISOU	4279	CA	MSE	E	365	3644	1570	3666	-594	695	41	C
ATOM	4280	CB	MSE	E	365	31.472	-30.506	-7.757	1.00	21.74		C
ANISOU	4280	CB	MSE	E	365	3414	1378	3470	-454	639	-36	C
ATOM	4281	CG	MSE	E	365	31.045	-29.545	-8.842	1.00	23.13		C
ANISOU	4281	CG	MSE	E	365	3502	1647	3639	-443	640	-154	C
ATOM	4282	SE	MSE	E	365	32.526	-28.585	-9.625	0.90	23.40		SE
ANISOU	4282	SE	MSE	E	365	3512	1739	3638	-313	602	-208	SE
ATOM	4283	CE	MSE	E	365	33.771	-30.022	-9.974	1.00	18.37		C
ANISOU	4283	CE	MSE	E	365	2937	958	3086	-233	569	-221	C
ATOM	4284	C	MSE	E	365	30.960	-31.945	-5.849	1.00	24.00		C
ANISOU	4284	C	MSE	E	365	3840	1550	3729	-592	674	197	C
ATOM	4285	O	MSE	E	365	31.712	-31.448	-5.007	1.00	24.02		O
ANISOU	4285	O	MSE	E	365	3857	1634	3635	-529	647	264	O
ATOM	4286	N	VAL	E	366	30.647	-33.239	-5.897	1.00	24.70		N
ANISOU	4286	N	VAL	E	366	4015	1459	3911	-665	674	257	N
ATOM	4287	CA	VAL	E	366	31.225	-34.211	-4.985	1.00	26.44		C
ANISOU	4287	CA	VAL	E	366	4372	1538	4136	-656	631	436	C
ATOM	4288	CB	VAL	E	366	30.132	-34.805	-4.045	1.00	28.13		C
ANISOU	4288	CB	VAL	E	366	4654	1731	4302	-858	710	576	C
ATOM	4289	CG1	VAL	E	366	30.702	-35.906	-3.156	1.00	29.65		C
ANISOU	4289	CG1	VAL	E	366	5023	1742	4502	-858	650	802	C
ATOM	4290	CG2	VAL	E	366	29.493	-33.697	-3.201	1.00	27.64		C
ANISOU	4290	CG2	VAL	E	366	4506	1933	4062	-936	796	572	C
ATOM	4291	C	VAL	E	366	31.984	-35.333	-5.738	1.00	27.40		C
ANISOU	4291	C	VAL	E	366	4567	1412	4432	-557	553	413	C
ATOM	4292	O	VAL	E	366	31.382	-36.089	-6.501	1.00	27.59		O
ANISOU	4292	O	VAL	E	366	4608	1292	4584	-633	575	335	O
ATOM	4293	N	GLY	E	367	33.293	-35.428	-5.493	1.00	28.19		N
ANISOU	4293	N	GLY	E	367	4697	1473	4542	-388	461	462	N
ATOM	4294	CA	GLY	E	367	34.123	-36.526	-5.992	1.00	30.20		C
ANISOU	4294	CA	GLY	E	367	5014	1486	4973	-261	380	446	C
ATOM	4295	C	GLY	E	367	34.685	-37.405	-4.894	1.00	33.69		C
ANISOU	4295	C	GLY	E	367	5595	1766	5439	-206	286	673	C
ATOM	4296	O	GLY	E	367	34.376	-37.209	-3.720	1.00	34.80		O
ANISOU	4296	O	GLY	E	367	5797	1996	5427	-292	292	858	O
ATOM	4297	N	LYS	E	368	35.498	-38.390	-5.273	1.00	35.94		N
ANISOU	4297	N	LYS	E	368	5932	1812	5911	-57	196	658	N
ATOM	4298	CA	LYS	E	368	36.162	-39.264	-4.312	1.00	38.97		C
ANISOU	4298	CA	LYS	E	368	6451	2010	6347	42	69	884	C
ATOM	4299	CB	LYS	E	368	36.914	-40.385	-5.031	1.00	41.21		C
ANISOU	4299	CB	LYS	E	368	6767	1990	6901	219	-19	796	C
ATOM	4300	CG	LYS	E	368	36.054	-41.402	-5.755	1.00	44.82		C
ANISOU	4300	CG	LYS	E	368	7315	2166	7548	97	41	717	C
ATOM	4301	CD	LYS	E	368	36.966	-42.427	-6.402	1.00	52.13		C
ANISOU	4301	CD	LYS	E	368	8260	2799	8749	311	-54	600	C
ATOM	4302	CE	LYS	E	368	36.378	-43.018	-7.678	1.00	55.25		C
ANISOU	4302	CE	LYS	E	368	8645	3030	9319	233	28	339	C
ATOM	4303	NZ	LYS	E	368	37.081	-44.304	-8.039	1.00	58.01		N
ANISOU	4303	NZ	LYS	E	368	9071	2998	9973	415	-68	265	N
ATOM	4304	C	LYS	E	368	37.163	-38.513	-3.429	1.00	38.51		C
ANISOU	4304	C	LYS	E	368	6337	2165	6130	175	-25	979	C
ATOM	4305	O	LYS	E	368	37.330	-38.848	-2.254	1.00	40.15		O
ANISOU	4305	O	LYS	E	368	6662	2346	6248	176	-113	1226	O
ATOM	4306	N	ARG	E	369	37.827	-37.509	-4.010	1.00	36.39		N
ANISOU	4306	N	ARG	E	369	5893	2111	5823	272	-10	786	N
ATOM	4307	CA	ARG	E	369	39.003	-36.893	-3.397	1.00	36.20		C
ANISOU	4307	CA	ARG	E	369	5782	2263	5708	423	-115	816	C
ATOM	4308	CB	ARG	E	369	40.271	-37.288	-4.170	1.00	37.98		C
ANISOU	4308	CB	ARG	E	369	5899	2401	6129	655	-198	665	C
ATOM	4309	CG	ARG	E	369	40.565	-38.794	-4.243	1.00	41.98		C
ANISOU	4309	CG	ARG	E	369	6520	2561	6871	788	-303	738	C
ATOM	4310	CD	ARG	E	369	42.027	-39.098	-3.979	1.00	47.29		C
ANISOU	4310	CD	ARG	E	369	7105	3211	7651	1057	-473	743	C

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Figure 18 (continued)

ATOM	4311	NE	ARG	E	369	42.155	-39.943	-2.787	1.00	54.15	N	
ANISOU	4311	NE	ARG	E	369	8144	3905	8525	1121	-641	1046	N
ATOM	4312	CZ	ARG	E	369	42.934	-39.702	-1.733	1.00	55.72	C	
ANISOU	4312	CZ	ARG	E	369	8323	4243	8606	1231	-801	1209	C
ATOM	4313	NH1	ARG	E	369	43.718	-38.625	-1.680	1.00	54.95	N	
ANISOU	4313	NH1	ARG	E	369	8026	4461	8393	1288	-814	1079	N
ATOM	4314	NH2	ARG	E	369	42.930	-40.558	-0.724	1.00	58.26	N	
ANISOU	4314	NH2	ARG	E	369	8832	4383	8920	1274	-956	1510	N
ATOM	4315	C	ARG	E	369	38.934	-35.380	-3.308	1.00	33.75	C	
ANISOU	4315	C	ARG	E	369	5345	2273	5207	348	-39	717	C
ATOM	4316	O	ARG	E	369	39.914	-34.725	-2.945	1.00	34.16	O	
ANISOU	4316	O	ARG	E	369	5295	2491	5191	450	-111	692	O
ATOM	4317	N	ALA	E	370	37.792	-34.814	-3.675	1.00	31.33	N	
ANISOU	4317	N	ALA	E	370	5030	2041	4833	176	99	647	N
ATOM	4318	CA	ALA	E	370	37.559	-33.400	-3.527	1.00	28.93	C	
ANISOU	4318	CA	ALA	E	370	4628	1995	4370	100	169	566	C
ATOM	4319	CB	ALA	E	370	38.363	-32.620	-4.535	1.00	27.23	C	
ANISOU	4319	CB	ALA	E	370	4264	1875	4207	190	183	368	C
ATOM	4320	C	ALA	E	370	36.067	-33.095	-3.648	1.00	28.11	C	
ANISOU	4320	C	ALA	E	370	4547	1924	4208	-87	299	547	C
ATOM	4321	O	ALA	E	370	35.301	-33.902	-4.202	1.00	28.06	O	
ANISOU	4321	O	ALA	E	370	4597	1757	4307	-159	342	541	O
ATOM	4322	N	THR	E	371	35.662	-31.950	-3.090	1.00	27.19	N	
ANISOU	4322	N	THR	E	371	4377	2016	3936	-165	354	524	N
ATOM	4323	CA	THR	E	371	34.304	-31.425	-3.247	1.00	26.56	C	
ANISOU	4323	CA	THR	E	371	4270	2009	3814	-313	474	464	C
ATOM	4324	CB	THR	E	371	33.385	-31.679	-2.005	1.00	28.20	C	
ANISOU	4324	CB	THR	E	371	4554	2275	3886	-460	531	605	C
ATOM	4325	OG1	THR	E	371	33.794	-30.847	-0.909	1.00	29.59	O	
ANISOU	4325	OG1	THR	E	371	4714	2648	3883	-451	514	632	O
ATOM	4326	CG2	THR	E	371	33.393	-33.154	-1.572	1.00	28.40	C	
ANISOU	4326	CG2	THR	E	371	4730	2103	3955	-493	486	799	C
ATOM	4327	C	THR	E	371	34.395	-29.935	-3.534	1.00	25.42	C	
ANISOU	4327	C	THR	E	371	4005	2038	3615	-293	508	318	C
ATOM	4328	O	THR	E	371	35.432	-29.303	-3.270	1.00	26.43	O	
ANISOU	4328	O	THR	E	371	4090	2253	3699	-209	452	292	O
ATOM	4329	N	ALA	E	372	33.332	-29.363	-4.091	1.00	23.65	N	
ANISOU	4329	N	ALA	E	372	3723	1856	3408	-370	590	222	N
ATOM	4330	CA	ALA	E	372	33.374	-27.962	-4.454	1.00	21.68	C	
ANISOU	4330	CA	ALA	E	372	3378	1723	3137	-344	611	98	C
ATOM	4331	CB	ALA	E	372	34.062	-27.763	-5.828	1.00	20.08	C	
ANISOU	4331	CB	ALA	E	372	3135	1466	3029	-263	579	10	C
ATOM	4332	C	ALA	E	372	32.005	-27.314	-4.448	1.00	20.75	C	
ANISOU	4332	C	ALA	E	372	3202	1678	3005	-430	691	32	C
ATOM	4333	O	ALA	E	372	30.976	-28.000	-4.439	1.00	20.60	O	
ANISOU	4333	O	ALA	E	372	3192	1627	3010	-519	740	58	O
ATOM	4334	N	ILE	E	373	32.007	-25.988	-4.420	1.00	19.68	N	
ANISOU	4334	N	ILE	E	373	2997	1635	2845	-402	704	-60	N
ATOM	4335	CA	ILE	E	373	30.801	-25.212	-4.699	1.00	20.41	C	
ANISOU	4335	CA	ILE	E	373	3008	1776	2971	-434	756	-152	C
ATOM	4336	CB	ILE	E	373	30.356	-24.310	-3.515	1.00	21.75	C	
ANISOU	4336	CB	ILE	E	373	3130	2078	3058	-463	816	-213	C
ATOM	4337	CG1	ILE	E	373	30.315	-25.102	-2.203	1.00	22.01	C	
ANISOU	4337	CG1	ILE	E	373	3221	2184	2956	-546	858	-120	C
ATOM	4338	CD1	ILE	E	373	29.912	-24.273	-0.985	1.00	23.87	C	
ANISOU	4338	CD1	ILE	E	373	3410	2587	3072	-587	931	-202	C
ATOM	4339	CG2	ILE	E	373	28.992	-23.701	-3.819	1.00	22.34	C	
ANISOU	4339	CG2	ILE	E	373	3098	2190	3199	-479	868	-317	C
ATOM	4340	C	ILE	E	373	31.126	-24.332	-5.891	1.00	19.23	C	
ANISOU	4340	C	ILE	E	373	2823	1587	2896	-361	711	-221	C
ATOM	4341	O	ILE	E	373	32.156	-23.665	-5.899	1.00	18.51	O	
ANISOU	4341	O	ILE	E	373	2742	1500	2792	-313	680	-234	O
ATOM	4342	N	LEU	E	374	30.252	-24.362	-6.898	1.00	18.79	N	
ANISOU	4342	N	LEU	E	374	2728	1502	2910	-368	705	-257	N
ATOM	4343	CA	LEU	E	374	30.467	-23.673	-8.178	1.00	17.10	C	
ANISOU	4343	CA	LEU	E	374	2503	1253	2742	-312	653	-288	C
ATOM	4344	CB	LEU	E	374	30.623	-24.697	-9.314	1.00	17.63	C	
ANISOU	4344	CB	LEU	E	374	2605	1264	2828	-322	623	-275	C
ATOM	4345	CG	LEU	E	374	30.560	-24.218	-10.764	1.00	17.47	C	
ANISOU	4345	CG	LEU	E	374	2579	1243	2816	-294	572	-302	C
ATOM	4346	CD1	LEU	E	374	31.820	-23.383	-11.076	1.00	17.18	C	

Figure 18 (continued)

ANISOU	4346	CD1	LEU	E	374	2575	1203	2747	-255	564	-283	C
ATOM	4347	CD2	LEU	E	374	30.469	-25.360	-11.696	1.00	17.08		C
ANISOU	4347	CD2	LEU	E	374	2553	1165	2772	-323	556	-327	C
ATOM	4348	C	LEU	E	374	29.286	-22.786	-8.498	1.00	16.92		C
ANISOU	4348	C	LEU	E	374	2401	1258	2770	-295	642	-348	C
ATOM	4349	O	LEU	E	374	28.126	-23.249	-8.481	1.00	15.98		O
ANISOU	4349	O	LEU	E	374	2218	1172	2681	-335	659	-377	O
ATOM	4350	N	ARG	E	375	29.570	-21.498	-8.726	1.00	16.55		N
ANISOU	4350	N	ARG	E	375	2349	1192	2748	-236	611	-368	N
ATOM	4351	CA	ARG	E	375	28.615	-20.620	-9.352	1.00	17.49		C
ANISOU	4351	CA	ARG	E	375	2408	1298	2938	-184	562	-403	C
ATOM	4352	CB	ARG	E	375	28.483	-19.295	-8.633	1.00	18.68		C
ANISOU	4352	CB	ARG	E	375	2524	1428	3145	-130	572	-466	C
ATOM	4353	CG	ARG	E	375	27.717	-19.389	-7.371	1.00	20.56		C
ANISOU	4353	CG	ARG	E	375	2678	1751	3384	-149	650	-557	C
ATOM	4354	CD	ARG	E	375	27.873	-18.091	-6.582	1.00	21.88		C
ANISOU	4354	CD	ARG	E	375	2826	1893	3596	-98	670	-652	C
ATOM	4355	NE	ARG	E	375	27.046	-18.192	-5.379	1.00	25.86		N
ANISOU	4355	NE	ARG	E	375	3235	2515	4078	-123	763	-765	N
ATOM	4356	CZ	ARG	E	375	27.146	-17.421	-4.310	1.00	26.86		C
ANISOU	4356	CZ	ARG	E	375	3334	2677	4193	-112	819	-885	C
ATOM	4357	NH1	ARG	E	375	28.046	-16.437	-4.266	1.00	25.55		N
ANISOU	4357	NH1	ARG	E	375	3231	2415	4060	-78	782	-912	N
ATOM	4358	NH2	ARG	E	375	26.320	-17.641	-3.296	1.00	29.10		N
ANISOU	4358	NH2	ARG	E	375	3524	3103	4428	-151	921	-990	N
ATOM	4359	C	ARG	E	375	29.014	-20.386	-10.800	1.00	18.25		C
ANISOU	4359	C	ARG	E	375	2561	1348	3024	-160	485	-343	C
ATOM	4360	O	ARG	E	375	30.185	-20.109	-11.131	1.00	17.38		O
ANISOU	4360	O	ARG	E	375	2525	1203	2875	-168	486	-298	O
ATOM	4361	N	LYS	E	376	28.012	-20.433	-11.660	1.00	18.54		N
ANISOU	4361	N	LYS	E	376	2552	1405	3088	-138	418	-348	N
ATOM	4362	CA	LYS	E	376	28.255	-20.335	-13.071	1.00	19.40		C
ANISOU	4362	CA	LYS	E	376	2719	1506	3147	-130	341	-288	C
ATOM	4363	CB	LYS	E	376	28.315	-21.771	-13.583	1.00	20.73		C
ANISOU	4363	CB	LYS	E	376	2900	1723	3255	-198	357	-310	C
ATOM	4364	CG	LYS	E	376	28.136	-21.939	-15.015	1.00	24.60		C
ANISOU	4364	CG	LYS	E	376	3416	2255	3675	-204	277	-295	C
ATOM	4365	CD	LYS	E	376	27.437	-23.258	-15.295	1.00	25.85		C
ANISOU	4365	CD	LYS	E	376	3527	2461	3833	-265	272	-374	C
ATOM	4366	CE	LYS	E	376	27.641	-23.566	-16.743	1.00	24.77		C
ANISOU	4366	CE	LYS	E	376	3442	2383	3587	-287	210	-382	C
ATOM	4367	NZ	LYS	E	376	26.874	-22.594	-17.523	1.00	26.75		N
ANISOU	4367	NZ	LYS	E	376	3667	2688	3807	-233	84	-331	N
ATOM	4368	C	LYS	E	376	27.119	-19.526	-13.719	1.00	19.69		C
ANISOU	4368	C	LYS	E	376	2697	1543	3240	-55	230	-279	C
ATOM	4369	O	LYS	E	376	26.022	-19.438	-13.178	1.00	19.19		O
ANISOU	4369	O	LYS	E	376	2517	1510	3263	-17	221	-351	O
ATOM	4370	N	ALA	E	377	27.402	-18.913	-14.861	1.00	19.87		N
ANISOU	4370	N	ALA	E	377	2797	1542	3209	-31	144	-188	N
ATOM	4371	CA	ALA	E	377	26.369	-18.220	-15.644	1.00	21.63		C
ANISOU	4371	CA	ALA	E	377	2981	1768	3469	54	0	-149	C
ATOM	4372	CB	ALA	E	377	26.452	-16.693	-15.458	1.00	21.14		C
ANISOU	4372	CB	ALA	E	377	2959	1567	3505	144	-50	-82	C
ATOM	4373	C	ALA	E	377	26.594	-18.616	-17.102	1.00	21.95		C
ANISOU	4373	C	ALA	E	377	3102	1884	3355	9	-75	-74	C
ATOM	4374	O	ALA	E	377	27.330	-19.549	-17.351	1.00	21.69		O
ANISOU	4374	O	ALA	E	377	3116	1904	3222	-80	1	-102	O
ATOM	4375	N	THR	E	378	25.972	-17.923	-18.050	1.00	23.90		N
ANISOU	4375	N	THR	E	378	3362	2140	3578	76	-228	13	N
ATOM	4376	CA	THR	E	378	26.139	-18.227	-19.483	1.00	25.60		C
ANISOU	4376	CA	THR	E	378	3662	2460	3605	26	-310	87	C
ATOM	4377	CB	THR	E	378	25.299	-17.275	-20.380	1.00	27.85		C
ANISOU	4377	CB	THR	E	378	3960	2747	3875	127	-515	214	C
ATOM	4378	OG1	THR	E	378	23.947	-17.261	-19.926	1.00	29.57		O
ANISOU	4378	OG1	THR	E	378	4001	2984	4250	234	-608	120	O
ATOM	4379	CG2	THR	E	378	25.304	-17.743	-21.851	1.00	30.08		C
ANISOU	4379	CG2	THR	E	378	4315	3193	3920	64	-612	270	C
ATOM	4380	C	THR	E	378	27.615	-18.190	-19.933	1.00	25.01		C
ANISOU	4380	C	THR	E	378	3737	2377	3386	-74	-208	164	C
ATOM	4381	O	THR	E	378	28.215	-17.115	-20.060	1.00	25.04		O
ANISOU	4381	O	THR	E	378	3843	2284	3387	-70	-212	297	O

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Figure 18 (continued)

ATOM	4382	N	ARG	E	379	28.184	-19.373	-20.172	1.00	24.99		N
ANISOU	4382	N	ARG	E	379	3740	2472	3282	-166	-114	69	N
ATOM	4383	CA	ARG	E	379	29.589	-19.500	-20.611	1.00	25.62		C
ANISOU	4383	CA	ARG	E	379	3921	2580	3232	-258	-1	97	C
ATOM	4384	CB	ARG	E	379	29.750	-19.126	-22.102	1.00	27.18		C
ANISOU	4384	CB	ARG	E	379	4227	2889	3212	-308	-73	210	C
ATOM	4385	CG	ARG	E	379	28.814	-19.879	-23.053	1.00	28.80		C
ANISOU	4385	CG	ARG	E	379	4399	3250	3295	-310	-189	143	C
ATOM	4386	CD	ARG	E	379	29.241	-19.684	-24.521	1.00	29.35		C
ANISOU	4386	CD	ARG	E	379	4591	3475	3087	-391	-225	235	C
ATOM	4387	NE	ARG	E	379	30.539	-20.308	-24.733	1.00	29.26		N
ANISOU	4387	NE	ARG	E	379	4615	3531	2972	-495	-44	147	N
ATOM	4388	CZ	ARG	E	379	31.290	-20.180	-25.826	1.00	30.78		C
ANISOU	4388	CZ	ARG	E	379	4907	3869	2920	-596	5	198	C
ATOM	4389	NH1	ARG	E	379	30.879	-19.451	-26.857	1.00	32.74		N
ANISOU	4389	NH1	ARG	E	379	5258	4210	2972	-620	-124	368	N
ATOM	4390	NH2	ARG	E	379	32.460	-20.789	-25.883	1.00	28.70		N
ANISOU	4390	NH2	ARG	E	379	4634	3667	2604	-672	184	78	N
ATOM	4391	C	ARG	E	379	30.531	-18.661	-19.737	1.00	25.30		C
ANISOU	4391	C	ARG	E	379	3915	2410	3286	-262	92	154	C
ATOM	4392	O	ARG	E	379	31.356	-17.912	-20.253	1.00	26.75		O
ANISOU	4392	O	ARG	E	379	4194	2579	3389	-319	119	264	O
ATOM	4393	N	ARG	E	380	30.394	-18.803	-18.417	1.00	25.10		N
ANISOU	4393	N	ARG	E	380	3810	2304	3421	-220	143	73	N
ATOM	4394	CA	ARG	E	380	31.158	-18.022	-17.438	1.00	25.31		C
ANISOU	4394	CA	ARG	E	380	3851	2220	3547	-222	216	92	C
ATOM	4395	CB	ARG	E	380	30.500	-16.655	-17.212	1.00	26.33		C
ANISOU	4395	CB	ARG	E	380	3995	2220	3788	-147	126	171	C
ATOM	4396	CG	ARG	E	380	31.262	-15.682	-16.289	1.00	27.56		C
ANISOU	4396	CG	ARG	E	380	4176	2243	4052	-160	190	176	C
ATOM	4397	CD	ARG	E	380	30.391	-14.433	-16.058	1.00	30.89		C
ANISOU	4397	CD	ARG	E	380	4602	2511	4622	-58	88	218	C
ATOM	4398	NE	ARG	E	380	30.622	-13.828	-14.744	1.00	38.11		N
ANISOU	4398	NE	ARG	E	380	5478	3322	5681	-38	149	120	N
ATOM	4399	CZ	ARG	E	380	29.754	-13.045	-14.114	1.00	42.71		C
ANISOU	4399	CZ	ARG	E	380	6009	3793	6425	71	96	61	C
ATOM	4400	NH1	ARG	E	380	28.579	-12.763	-14.675	1.00	45.06		N
ANISOU	4400	NH1	ARG	E	380	6275	4064	6780	186	-32	102	N
ATOM	4401	NH2	ARG	E	380	30.059	-12.552	-12.914	1.00	44.78		N
ANISOU	4401	NH2	ARG	E	380	6238	3985	6791	72	166	-57	N
ATOM	4402	C	ARG	E	380	31.203	-18.783	-16.134	1.00	23.46		C
ANISOU	4402	C	ARG	E	380	3532	1980	3404	-208	293	-29	C
ATOM	4403	O	ARG	E	380	30.167	-19.189	-15.617	1.00	24.09		O
ANISOU	4403	O	ARG	E	380	3534	2067	3551	-163	264	-91	O
ATOM	4404	N	LEU	E	381	32.405	-19.005	-15.619	1.00	22.65		N
ANISOU	4404	N	LEU	E	381	3438	1877	3293	-254	389	-57	N
ATOM	4405	CA	LEU	E	381	32.583	-19.406	-14.222	1.00	21.63		C
ANISOU	4405	CA	LEU	E	381	3250	1728	3240	-238	446	-133	C
ATOM	4406	CB	LEU	E	381	33.941	-20.107	-14.030	1.00	21.33		C
ANISOU	4406	CB	LEU	E	381	3212	1732	3162	-278	523	-167	C
ATOM	4407	CG	LEU	E	381	34.244	-20.753	-12.662	1.00	19.23		C
ANISOU	4407	CG	LEU	E	381	2900	1465	2942	-259	560	-221	C
ATOM	4408	CD1	LEU	E	381	35.081	-21.997	-12.834	1.00	13.40		C
ANISOU	4408	CD1	LEU	E	381	2152	765	2174	-259	593	-258	C
ATOM	4409	CD2	LEU	E	381	34.922	-19.699	-11.796	1.00	17.93		C
ANISOU	4409	CD2	LEU	E	381	2726	1273	2813	-272	577	-225	C
ATOM	4410	C	LEU	E	381	32.513	-18.135	-13.379	1.00	21.99		C
ANISOU	4410	C	LEU	E	381	3292	1685	3378	-213	439	-126	C
ATOM	4411	O	LEU	E	381	33.301	-17.199	-13.572	1.00	23.59		O
ANISOU	4411	O	LEU	E	381	3544	1833	3586	-250	450	-79	O
ATOM	4412	N	VAL	E	382	31.546	-18.064	-12.477	1.00	21.86		N
ANISOU	4412	N	VAL	E	382	3214	1654	3439	-161	427	-184	N
ATOM	4413	CA	VAL	E	382	31.417	-16.882	-11.602	1.00	21.55		C
ANISOU	4413	CA	VAL	E	382	3160	1532	3496	-127	428	-223	C
ATOM	4414	CB	VAL	E	382	29.957	-16.691	-11.098	1.00	21.88		C
ANISOU	4414	CB	VAL	E	382	3114	1573	3625	-48	398	-294	C
ATOM	4415	CG1	VAL	E	382	29.859	-15.541	-10.076	1.00	22.19		C
ANISOU	4415	CG1	VAL	E	382	3128	1534	3770	-6	417	-382	C
ATOM	4416	CG2	VAL	E	382	29.020	-16.449	-12.269	1.00	20.93		C
ANISOU	4416	CG2	VAL	E	382	2990	1431	3530	11	293	-231	C
ATOM	4417	C	VAL	E	382	32.403	-17.045	-10.441	1.00	20.98		C

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Figure 18 (continued)

ANISOU	4417	C	VAL	E	382	3076	1491	3404	-172	502	-285	C
ATOM	4418	O	VAL	E	382	33.214	-16.165	-10.189	1.00	21.61		O
ANISOU	4418	O	VAL	E	382	3184	1514	3514	-203	515	-294	O
ATOM	4419	N	GLN	E	383	32.352	-18.188	-9.762	1.00	20.35		N
ANISOU	4419	N	GLN	E	383	2959	1500	3272	-184	541	-319	N
ATOM	4420	CA	GLN	E	383	33.239	-18.459	-8.653	1.00	20.51		C
ANISOU	4420	CA	GLN	E	383	2970	1571	3251	-214	585	-358	C
ATOM	4421	CB	GLN	E	383	32.825	-17.601	-7.432	1.00	22.63		C
ANISOU	4421	CB	GLN	E	383	3202	1840	3555	-201	605	-454	C
ATOM	4422	CG	GLN	E	383	33.753	-17.779	-6.252	1.00	28.07		C
ANISOU	4422	CG	GLN	E	383	3885	2608	4173	-239	631	-498	C
ATOM	4423	CD	GLN	E	383	33.698	-16.625	-5.265	1.00	36.66		C
ANISOU	4423	CD	GLN	E	383	4948	3689	5291	-243	647	-622	C
ATOM	4424	OE1	GLN	E	383	32.636	-15.998	-5.049	1.00	36.66		O
ANISOU	4424	OE1	GLN	E	383	4916	3654	5358	-202	662	-698	O
ATOM	4425	NE2	GLN	E	383	34.860	-16.332	-4.649	1.00	38.02		N
ANISOU	4425	NE2	GLN	E	383	5121	3901	5423	-289	640	-665	N
ATOM	4426	C	GLN	E	383	33.243	-19.938	-8.326	1.00	19.34		C
ANISOU	4426	C	GLN	E	383	2817	1492	3040	-225	604	-337	C
ATOM	4427	O	GLN	E	383	32.239	-20.609	-8.509	1.00	18.92		O
ANISOU	4427	O	GLN	E	383	2748	1449	2993	-222	605	-329	O
ATOM	4428	N	LEU	E	384	34.387	-20.445	-7.868	1.00	18.66		N
ANISOU	4428	N	LEU	E	384	2739	1443	2907	-238	610	-326	N
ATOM	4429	CA	LEU	E	384	34.544	-21.825	-7.460	1.00	18.10		C
ANISOU	4429	CA	LEU	E	384	2681	1403	2795	-235	612	-288	C
ATOM	4430	CB	LEU	E	384	35.331	-22.585	-8.546	1.00	18.49		C
ANISOU	4430	CB	LEU	E	384	2743	1425	2855	-217	599	-264	C
ATOM	4431	CG	LEU	E	384	35.671	-24.077	-8.334	1.00	18.11		C
ANISOU	4431	CG	LEU	E	384	2716	1358	2806	-190	586	-231	C
ATOM	4432	CD1	LEU	E	384	34.428	-24.981	-8.395	1.00	15.62		C
ANISOU	4432	CD1	LEU	E	384	2432	995	2509	-217	597	-207	C
ATOM	4433	CD2	LEU	E	384	36.728	-24.517	-9.342	1.00	17.92		C
ANISOU	4433	CD2	LEU	E	384	2677	1325	2807	-156	583	-260	C
ATOM	4434	C	LEU	E	384	35.349	-21.856	-6.147	1.00	19.39		C
ANISOU	4434	C	LEU	E	384	2837	1632	2899	-236	602	-293	C
ATOM	4435	O	LEU	E	384	36.373	-21.166	-6.044	1.00	19.75		O
ANISOU	4435	O	LEU	E	384	2857	1702	2944	-238	586	-328	O
ATOM	4436	N	ILE	E	385	34.898	-22.664	-5.175	1.00	19.03		N
ANISOU	4436	N	ILE	E	385	2812	1624	2793	-249	609	-252	N
ATOM	4437	CA	ILE	E	385	35.659	-22.991	-3.966	1.00	19.96		C
ANISOU	4437	CA	ILE	E	385	2941	1820	2821	-245	576	-221	C
ATOM	4438	CB	ILE	E	385	34.993	-22.480	-2.627	1.00	21.28		C
ANISOU	4438	CB	ILE	E	385	3107	2094	2884	-296	612	-260	C
ATOM	4439	CG1	ILE	E	385	34.558	-21.029	-2.788	1.00	21.71		C
ANISOU	4439	CG1	ILE	E	385	3111	2146	2993	-305	650	-390	C
ATOM	4440	CD1	ILE	E	385	33.762	-20.478	-1.643	1.00	22.98		C
ANISOU	4440	CD1	ILE	E	385	3249	2408	3075	-344	707	-479	C
ATOM	4441	CG2	ILE	E	385	36.012	-22.510	-1.462	1.00	21.32		C
ANISOU	4441	CG2	ILE	E	385	3118	2212	2770	-293	553	-247	C
ATOM	4442	C	ILE	E	385	35.839	-24.504	-3.882	1.00	20.24		C
ANISOU	4442	C	ILE	E	385	3032	1811	2849	-222	542	-109	C
ATOM	4443	O	ILE	E	385	34.856	-25.249	-3.881	1.00	19.69		O
ANISOU	4443	O	ILE	E	385	3003	1695	2782	-261	578	-57	O
ATOM	4444	N	VAL	E	386	37.097	-24.943	-3.810	1.00	19.46		N
ANISOU	4444	N	VAL	E	386	2924	1714	2754	-158	472	-79	N
ATOM	4445	CA	VAL	E	386	37.410	-26.350	-3.752	1.00	20.14		C
ANISOU	4445	CA	VAL	E	386	3063	1721	2866	-106	420	23	C
ATOM	4446	CB	VAL	E	386	38.383	-26.761	-4.859	1.00	20.24		C
ANISOU	4446	CB	VAL	E	386	3030	1666	2993	-20	390	-23	C
ATOM	4447	CG1	VAL	E	386	38.441	-28.280	-4.958	1.00	19.96		C
ANISOU	4447	CG1	VAL	E	386	3061	1495	3030	41	346	60	C
ATOM	4448	CG2	VAL	E	386	37.960	-26.147	-6.192	1.00	19.11		C
ANISOU	4448	CG2	VAL	E	386	2855	1498	2906	-57	463	-116	C
ATOM	4449	C	VAL	E	386	37.999	-26.803	-2.420	1.00	21.41		C
ANISOU	4449	C	VAL	E	386	3261	1950	2925	-78	336	123	C
ATOM	4450	O	VAL	E	386	38.857	-26.159	-1.871	1.00	19.90		O
ANISOU	4450	O	VAL	E	386	3012	1873	2674	-54	282	81	O
ATOM	4451	N	SER	E	387	37.500	-27.932	-1.919	1.00	23.78		N
ANISOU	4451	N	SER	E	387	3661	2176	3199	-93	320	261	N
ATOM	4452	CA	SER	E	387	38.069	-28.605	-0.755	1.00	26.40		C
ANISOU	4452	CA	SER	E	387	4058	2542	3430	-55	216	407	C

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Figure 18 (continued)

ATOM	4453	CB	SER	E	387	36.995	-28.748	0.300	1.00	26.98		C
ANISOU	4453	CB	SER	E	387	4226	2682	3345	-183	274	511	C
ATOM	4454	OG	SER	E	387	37.539	-29.206	1.517	1.00	32.13		O
ANISOU	4454	OG	SER	E	387	4952	3411	3846	-163	169	663	O
ATOM	4455	C	SER	E	387	38.555	-29.968	-1.228	1.00	27.98		C
ANISOU	4455	C	SER	E	387	4311	2549	3769	49	138	502	C
ATOM	4456	O	SER	E	387	37.824	-30.693	-1.905	1.00	28.28		O
ANISOU	4456	O	SER	E	387	4407	2428	3912	14	195	518	O
ATOM	4457	N	GLY	E	388	39.787	-30.324	-0.904	1.00	30.49		N
ANISOU	4457	N	GLY	E	388	4601	2877	4108	182	2	545	N
ATOM	4458	CA	GLY	E	388	40.414	-31.510	-1.506	1.00	31.87		C
ANISOU	4458	CA	GLY	E	388	4792	2855	4464	322	-77	582	C
ATOM	4459	C	GLY	E	388	41.481	-32.119	-0.645	1.00	35.20		C
ANISOU	4459	C	GLY	E	388	5224	3281	4870	465	-259	711	C
ATOM	4460	O	GLY	E	388	42.053	-31.431	0.193	1.00	35.40		O
ANISOU	4460	O	GLY	E	388	5192	3507	4752	473	-333	715	O
ATOM	4461	N	LYS	E	389	41.744	-33.416	-0.854	1.00	37.79		N
ANISOU	4461	N	LYS	E	389	5625	3381	5354	584	-343	808	N
ATOM	4462	CA	LYS	E	389	42.695	-34.177	-0.038	1.00	41.58		C
ANISOU	4462	CA	LYS	E	389	6134	3817	5846	751	-547	967	C
ATOM	4463	CB	LYS	E	389	42.453	-35.683	-0.179	1.00	43.32		C
ANISOU	4463	CB	LYS	E	389	6511	3710	6238	824	-607	1121	C
ATOM	4464	CG	LYS	E	389	41.149	-36.173	0.475	1.00	45.67		C
ANISOU	4464	CG	LYS	E	389	7029	3907	6418	632	-541	1336	C
ATOM	4465	CD	LYS	E	389	40.990	-37.698	0.334	1.00	48.65		C
ANISOU	4465	CD	LYS	E	389	7573	3918	6995	695	-610	1495	C
ATOM	4466	CE	LYS	E	389	39.920	-38.253	1.282	1.00	53.15		C
ANISOU	4466	CE	LYS	E	389	8371	4404	7418	499	-579	1774	C
ATOM	4467	NZ	LYS	E	389	39.307	-39.499	0.737	1.00	55.21		N
ANISOU	4467	NZ	LYS	E	389	8779	4293	7904	458	-545	1839	N
ATOM	4468	C	LYS	E	389	44.154	-33.830	-0.362	1.00	41.93		C
ANISOU	4468	C	LYS	E	389	5968	3976	5988	934	-650	813	C
ATOM	4469	O	LYS	E	389	45.009	-33.920	0.510	1.00	43.82		O
ANISOU	4469	O	LYS	E	389	6171	4312	6166	1049	-828	906	O
ATOM	4470	N	ASP	E	390	44.426	-33.440	-1.615	1.00	40.64		N
ANISOU	4470	N	ASP	E	390	5659	3817	5965	951	-538	578	N
ATOM	4471	CA	ASP	E	390	45.777	-33.057	-2.081	1.00	40.81		C
ANISOU	4471	CA	ASP	E	390	5452	3968	6088	1091	-589	396	C
ATOM	4472	CB	ASP	E	390	46.690	-34.296	-2.287	1.00	43.89		C
ANISOU	4472	CB	ASP	E	390	5794	4180	6703	1343	-735	406	C
ATOM	4473	CG	ASP	E	390	46.218	-35.219	-3.405	1.00	44.30		C
ANISOU	4473	CG	ASP	E	390	5913	3965	6955	1376	-637	329	C
ATOM	4474	OD1	ASP	E	390	45.353	-34.826	-4.203	1.00	44.98		O
ANISOU	4474	OD1	ASP	E	390	6038	4044	7009	1213	-458	233	O
ATOM	4475	OD2	ASP	E	390	46.724	-36.355	-3.504	1.00	48.47		O
ANISOU	4475	OD2	ASP	E	390	6450	4282	7682	1574	-751	352	O
ATOM	4476	C	ASP	E	390	45.746	-32.154	-3.336	1.00	38.51		C
ANISOU	4476	C	ASP	E	390	5031	3767	5836	995	-404	157	C
ATOM	4477	O	ASP	E	390	44.671	-31.829	-3.839	1.00	36.33		O
ANISOU	4477	O	ASP	E	390	4845	3447	5510	841	-259	138	O
ATOM	4478	N	GLU	E	391	46.925	-31.763	-3.828	1.00	38.93		N
ANISOU	4478	N	GLU	E	391	4869	3952	5972	1081	-414	-16	N
ATOM	4479	CA	GLU	E	391	47.081	-30.789	-4.922	1.00	37.97		C
ANISOU	4479	CA	GLU	E	391	4618	3953	5855	972	-246	-219	C
ATOM	4480	CB	GLU	E	391	48.560	-30.441	-5.133	1.00	38.98		C
ANISOU	4480	CB	GLU	E	391	4490	4258	6064	1066	-286	-380	C
ATOM	4481	CG	GLU	E	391	48.856	-28.960	-4.994	1.00	40.24		C
ANISOU	4481	CG	GLU	E	391	4543	4643	6104	900	-222	-461	C
ATOM	4482	CD	GLU	E	391	50.336	-28.644	-4.975	1.00	43.40		C
ANISOU	4482	CD	GLU	E	391	4675	5236	6579	973	-281	-608	C
ATOM	4483	OE1	GLU	E	391	50.699	-27.575	-4.425	1.00	48.91		O
ANISOU	4483	OE1	GLU	E	391	5289	6112	7182	857	-298	-644	O
ATOM	4484	OE2	GLU	E	391	51.139	-29.445	-5.512	1.00	49.31		O
ANISOU	4484	OE2	GLU	E	391	5283	5963	7491	1142	-308	-707	O
ATOM	4485	C	GLU	E	391	46.489	-31.257	-6.243	1.00	36.17		C
ANISOU	4485	C	GLU	E	391	4442	3579	5722	947	-104	-312	C
ATOM	4486	O	GLU	E	391	45.845	-30.480	-6.927	1.00	34.25		O
ANISOU	4486	O	GLU	E	391	4226	3383	5403	790	37	-371	O
ATOM	4487	N	GLN	E	392	46.733	-32.515	-6.596	1.00	36.79		N
ANISOU	4487	N	GLN	E	392	4532	3478	5968	1108	-154	-333	N
ATOM	4488	CA	GLN	E	392	46.180	-33.135	-7.801	1.00	36.36		C

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Figure 18 (continued)

ANISOU	4488	CA	GLN	E	392	4533	3272	6008	1095	-38	-442	C
ATOM	4489	CB	GLN	E	392	46.833	-34.495	-8.032	1.00	39.07		C
ANISOU	4489	CB	GLN	E	392	4841	3428	6575	1320	-124	-506	C
ATOM	4490	CG	GLN	E	392	46.093	-35.431	-8.959	1.00	42.17		C
ANISOU	4490	CG	GLN	E	392	5347	3596	7078	1314	-46	-586	C
ATOM	4491	CD	GLN	E	392	46.480	-36.877	-8.682	1.00	51.76		C
ANISOU	4491	CD	GLN	E	392	6607	4534	8524	1534	-183	-558	C
ATOM	4492	OE1	GLN	E	392	46.212	-37.410	-7.595	1.00	55.83		O
ANISOU	4492	OE1	GLN	E	392	7265	4895	9053	1576	-325	-322	O
ATOM	4493	NE2	GLN	E	392	47.145	-37.513	-9.647	1.00	54.63		N
ANISOU	4493	NE2	GLN	E	392	6850	4836	9072	1680	-143	-798	N
ATOM	4494	C	GLN	E	392	44.645	-33.273	-7.800	1.00	33.83		C
ANISOU	4494	C	GLN	E	392	4427	2818	5610	940	22	-326	C
ATOM	4495	O	GLN	E	392	44.020	-33.044	-8.836	1.00	31.93		O
ANISOU	4495	O	GLN	E	392	4205	2580	5345	834	152	-432	O
ATOM	4496	N	SER	E	393	44.058	-33.650	-6.657	1.00	32.93		N
ANISOU	4496	N	SER	E	393	4460	2605	5446	923	-72	-113	N
ATOM	4497	CA	SER	E	393	42.611	-33.725	-6.519	1.00	31.18		C
ANISOU	4497	CA	SER	E	393	4411	2291	5146	759	-8	-5	C
ATOM	4498	CB	SER	E	393	42.242	-34.366	-5.185	1.00	33.05		C
ANISOU	4498	CB	SER	E	393	4797	2419	5340	763	-120	238	C
ATOM	4499	OG	SER	E	393	42.910	-35.606	-5.020	1.00	36.61		O
ANISOU	4499	OG	SER	E	393	5282	2665	5964	946	-249	295	O
ATOM	4500	C	SER	E	393	41.941	-32.337	-6.624	1.00	28.79		C
ANISOU	4500	C	SER	E	393	4086	2181	4671	581	102	-36	C
ATOM	4501	O	SER	E	393	40.854	-32.192	-7.202	1.00	27.10		O
ANISOU	4501	O	SER	E	393	3935	1933	4428	456	198	-62	O
ATOM	4502	N	ILE	E	394	42.586	-31.323	-6.062	1.00	27.47		N
ANISOU	4502	N	ILE	E	394	3824	2208	4405	574	76	-41	N
ATOM	4503	CA	ILE	E	394	42.091	-29.953	-6.192	1.00	26.15		C
ANISOU	4503	CA	ILE	E	394	3629	2193	4112	427	170	-88	C
ATOM	4504	CB	ILE	E	394	42.826	-28.959	-5.223	1.00	26.34		C
ANISOU	4504	CB	ILE	E	394	3570	2404	4034	417	111	-78	C
ATOM	4505	CG1	ILE	E	394	42.490	-29.298	-3.766	1.00	28.07		C
ANISOU	4505	CG1	ILE	E	394	3891	2627	4148	416	14	91	C
ATOM	4506	CD1	ILE	E	394	43.465	-28.723	-2.752	1.00	28.88		C
ANISOU	4506	CD1	ILE	E	394	3905	2906	4162	452	-94	95	C
ATOM	4507	CG2	ILE	E	394	42.405	-27.519	-5.487	1.00	24.76		C
ANISOU	4507	CG2	ILE	E	394	3340	2317	3749	276	210	-152	C
ATOM	4508	C	ILE	E	394	42.142	-29.511	-7.661	1.00	24.62		C
ANISOU	4508	C	ILE	E	394	3365	2030	3959	387	283	-247	C
ATOM	4509	O	ILE	E	394	41.175	-28.957	-8.182	1.00	22.84		O
ANISOU	4509	O	ILE	E	394	3189	1810	3678	272	366	-261	O
ATOM	4510	N	ALA	E	395	43.257	-29.804	-8.328	1.00	25.55		N
ANISOU	4510	N	ALA	E	395	3364	2176	4169	487	282	-366	N
ATOM	4511	CA	ALA	E	395	43.459	-29.462	-9.732	1.00	25.07		C
ANISOU	4511	CA	ALA	E	395	3232	2174	4119	445	397	-519	C
ATOM	4512	CB	ALA	E	395	44.872	-29.811	-10.162	1.00	27.09		C
ANISOU	4512	CB	ALA	E	395	3321	2497	4473	567	394	-657	C
ATOM	4513	C	ALA	E	395	42.439	-30.156	-10.642	1.00	25.59		C
ANISOU	4513	C	ALA	E	395	3403	2112	4209	408	454	-551	C
ATOM	4514	O	ALA	E	395	41.894	-29.517	-11.549	1.00	23.95		O
ANISOU	4514	O	ALA	E	395	3210	1966	3923	300	540	-600	O
ATOM	4515	N	GLU	E	396	42.193	-31.454	-10.389	1.00	27.00		N
ANISOU	4515	N	GLU	E	396	3657	2108	4496	495	393	-519	N
ATOM	4516	CA	GLU	E	396	41.166	-32.229	-11.086	1.00	27.69		C
ANISOU	4516	CA	GLU	E	396	3848	2051	4623	447	430	-554	C
ATOM	4517	CB	GLU	E	396	41.104	-33.664	-10.542	1.00	29.27		C
ANISOU	4517	CB	GLU	E	396	4134	2013	4973	547	344	-494	C
ATOM	4518	CG	GLU	E	396	42.271	-34.530	-10.972	1.00	32.63		C
ANISOU	4518	CG	GLU	E	396	4474	2363	5563	729	311	-631	C
ATOM	4519	CD	GLU	E	396	42.372	-35.851	-10.218	1.00	36.07		C
ANISOU	4519	CD	GLU	E	396	5002	2534	6168	858	191	-529	C
ATOM	4520	OE1	GLU	E	396	41.525	-36.109	-9.323	1.00	38.71		O
ANISOU	4520	OE1	GLU	E	396	5482	2756	6470	779	143	-330	O
ATOM	4521	OE2	GLU	E	396	43.304	-36.647	-10.530	1.00	42.02		O
ANISOU	4521	OE2	GLU	E	396	5684	3188	7095	1039	148	-649	O
ATOM	4522	C	GLU	E	396	39.785	-31.557	-11.059	1.00	25.08		C
ANISOU	4522	C	GLU	E	396	3601	1751	4176	284	471	-475	C
ATOM	4523	O	GLU	E	396	39.134	-31.458	-12.082	1.00	25.02		O
ANISOU	4523	O	GLU	E	396	3608	1763	4135	209	531	-560	O

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Figure 18 (continued)

ATOM	4524	N	ALA	E	397	39.382	-31.055	-9.898	1.00	24.77		N
ANISOU	4524	N	ALA	E	397	3603	1741	4069	238	435	-329	N
ATOM	4525	CA	ALA	E	397	38.105	-30.350	-9.702	1.00	22.83		C
ANISOU	4525	CA	ALA	E	397	3407	1538	3729	104	473	-267	C
ATOM	4526	CB	ALA	E	397	37.845	-30.182	-8.227	1.00	22.80		C
ANISOU	4526	CB	ALA	E	397	3447	1548	3667	81	431	-123	C
ATOM	4527	C	ALA	E	397	38.054	-29.011	-10.421	1.00	21.75		C
ANISOU	4527	C	ALA	E	397	3209	1549	3504	43	529	-331	C
ATOM	4528	O	ALA	E	397	37.043	-28.663	-11.030	1.00	22.91		O
ANISOU	4528	O	ALA	E	397	3380	1710	3614	-37	562	-349	O
ATOM	4529	N	ILE	E	398	39.136	-28.247	-10.344	1.00	20.67		N
ANISOU	4529	N	ILE	E	398	2993	1518	3341	75	531	-358	N
ATOM	4530	CA	ILE	E	398	39.245	-27.004	-11.079	1.00	19.58		C
ANISOU	4530	CA	ILE	E	398	2812	1492	3134	8	585	-403	C
ATOM	4531	CB	ILE	E	398	40.575	-26.213	-10.741	1.00	19.57		C
ANISOU	4531	CB	ILE	E	398	2713	1599	3124	24	586	-429	C
ATOM	4532	CG1	ILE	E	398	40.619	-25.880	-9.246	1.00	18.51		C
ANISOU	4532	CG1	ILE	E	398	2582	1481	2970	32	523	-352	C
ATOM	4533	CD1	ILE	E	398	41.963	-25.363	-8.757	1.00	20.95		C
ANISOU	4533	CD1	ILE	E	398	2779	1896	3284	56	495	-393	C
ATOM	4534	CG2	ILE	E	398	40.655	-24.936	-11.565	1.00	17.52		C
ANISOU	4534	CG2	ILE	E	398	2432	1422	2802	-73	651	-453	C
ATOM	4535	C	ILE	E	398	39.063	-27.223	-12.597	1.00	19.20		C
ANISOU	4535	C	ILE	E	398	2768	1457	3070	-19	639	-494	C
ATOM	4536	O	ILE	E	398	38.259	-26.545	-13.226	1.00	17.87		O
ANISOU	4536	O	ILE	E	398	2634	1320	2835	-95	659	-479	O
ATOM	4537	N	ILE	E	399	39.791	-28.190	-13.148	1.00	20.46		N
ANISOU	4537	N	ILE	E	399	2890	1594	3288	52	653	-593	N
ATOM	4538	CA	ILE	E	399	39.703	-28.555	-14.570	1.00	20.68		C
ANISOU	4538	CA	ILE	E	399	2920	1655	3284	28	710	-714	C
ATOM	4539	CB	ILE	E	399	40.619	-29.774	-14.904	1.00	22.08		C
ANISOU	4539	CB	ILE	E	399	3039	1784	3565	141	723	-855	C
ATOM	4540	CG1	ILE	E	399	42.093	-29.371	-14.774	1.00	21.85		C
ANISOU	4540	CG1	ILE	E	399	2876	1872	3554	198	754	-907	C
ATOM	4541	CD1	ILE	E	399	43.088	-30.515	-14.781	1.00	23.92		C
ANISOU	4541	CD1	ILE	E	399	3050	2078	3961	353	742	-1039	C
ATOM	4542	CG2	ILE	E	399	40.306	-30.345	-16.312	1.00	21.12		C
ANISOU	4542	CG2	ILE	E	399	2936	1684	3405	110	780	-1011	C
ATOM	4543	C	ILE	E	399	38.254	-28.856	-14.984	1.00	21.30		C
ANISOU	4543	C	ILE	E	399	3087	1671	3335	-37	690	-699	C
ATOM	4544	O	ILE	E	399	37.753	-28.319	-15.969	1.00	21.55		O
ANISOU	4544	O	ILE	E	399	3137	1788	3263	-112	713	-722	O
ATOM	4545	N	VAL	E	400	37.593	-29.728	-14.229	1.00	21.79		N
ANISOU	4545	N	VAL	E	400	3203	1590	3488	-18	641	-655	N
ATOM	4546	CA	VAL	E	400	36.210	-30.104	-14.507	1.00	21.47		C
ANISOU	4546	CA	VAL	E	400	3221	1492	3445	-94	623	-654	C
ATOM	4547	CB	VAL	E	400	35.728	-31.255	-13.542	1.00	21.73		C
ANISOU	4547	CB	VAL	E	400	3313	1344	3600	-85	586	-598	C
ATOM	4548	CG1	VAL	E	400	34.263	-31.478	-13.660	1.00	19.99		C
ANISOU	4548	CG1	VAL	E	400	3126	1090	3380	-194	578	-590	C
ATOM	4549	CG2	VAL	E	400	36.493	-32.517	-13.815	1.00	21.84		C
ANISOU	4549	CG2	VAL	E	400	3339	1224	3736	3	579	-696	C
ATOM	4550	C	VAL	E	400	35.249	-28.902	-14.461	1.00	20.50		C
ANISOU	4550	C	VAL	E	400	3099	1460	3229	-173	613	-571	C
ATOM	4551	O	VAL	E	400	34.363	-28.774	-15.302	1.00	20.28		O
ANISOU	4551	O	VAL	E	400	3080	1476	3150	-232	600	-610	O
ATOM	4552	N	ALA	E	401	35.406	-28.048	-13.458	1.00	19.91		N
ANISOU	4552	N	ALA	E	401	3010	1412	3141	-166	607	-470	N
ATOM	4553	CA	ALA	E	401	34.606	-26.819	-13.352	1.00	19.36		C
ANISOU	4553	CA	ALA	E	401	2933	1408	3014	-214	597	-410	C
ATOM	4554	CB	ALA	E	401	34.872	-26.101	-12.008	1.00	17.52		C
ANISOU	4554	CB	ALA	E	401	2687	1183	2788	-199	596	-333	C
ATOM	4555	C	ALA	E	401	34.832	-25.862	-14.533	1.00	19.87		C
ANISOU	4555	C	ALA	E	401	2992	1566	2990	-237	605	-427	C
ATOM	4556	O	ALA	E	401	33.877	-25.259	-15.044	1.00	19.29		O
ANISOU	4556	O	ALA	E	401	2928	1525	2877	-270	570	-403	O
ATOM	4557	N	MSE	E	402	36.089	-25.714	-14.954	1.00	20.42		N
ANISOU	4557	N	MSE	E	402	3042	1687	3029	-222	647	-461	N
ATOM	4558	CA	MSE	E	402	36.416	-24.804	-16.059	1.00	21.29		C
ANISOU	4558	CA	MSE	E	402	3161	1895	3034	-271	672	-454	C
ATOM	4559	CB	MSE	E	402	37.926	-24.599	-16.154	1.00	21.70		C

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Figure 18 (continued)

ANISOU	4559	CB	MSE	E	402	3161	2012	3074	-271	741	-491	C
ATOM	4560	CG	MSE	E	402	38.500	-23.683	-15.106	1.00	22.22		C
ANISOU	4560	CG	MSE	E	402	3194	2063	3185	-274	741	-428	C
ATOM	4561	SE	MSE	E	402	40.412	-23.696	-15.293	0.90	27.13		SE
ANISOU	4561	SE	MSE	E	402	3703	2793	3811	-278	825	-514	SE
ATOM	4562	CE	MSE	E	402	40.877	-22.320	-13.992	1.00	24.57		C
ANISOU	4562	CE	MSE	E	402	3347	2452	3536	-321	801	-441	C
ATOM	4563	C	MSE	E	402	35.859	-25.299	-17.400	1.00	20.61		C
ANISOU	4563	C	MSE	E	402	3105	1865	2859	-305	663	-518	C
ATOM	4564	O	MSE	E	402	35.362	-24.495	-18.187	1.00	19.44		O
ANISOU	4564	O	MSE	E	402	2995	1781	2610	-352	634	-461	O
ATOM	4565	N	VAL	E	403	35.951	-26.621	-17.650	1.00	20.69		N
ANISOU	4565	N	VAL	E	403	3106	1848	2909	-277	678	-639	N
ATOM	4566	CA	VAL	E	403	35.357	-27.238	-18.838	1.00	21.22		C
ANISOU	4566	CA	VAL	E	403	3197	1968	2897	-315	663	-740	C
ATOM	4567	CB	VAL	E	403	35.749	-28.745	-19.039	1.00	22.85		C
ANISOU	4567	CB	VAL	E	403	3389	2108	3184	-275	696	-911	C
ATOM	4568	CG1	VAL	E	403	34.962	-29.365	-20.219	1.00	22.24		C
ANISOU	4568	CG1	VAL	E	403	3339	2087	3026	-332	670	-1042	C
ATOM	4569	CG2	VAL	E	403	37.257	-28.917	-19.283	1.00	22.02		C
ANISOU	4569	CG2	VAL	E	403	3230	2058	3078	-225	785	-1003	C
ATOM	4570	C	VAL	E	403	33.831	-27.076	-18.810	1.00	21.70		C
ANISOU	4570	C	VAL	E	403	3278	2007	2959	-349	573	-688	C
ATOM	4571	O	VAL	E	403	33.223	-26.611	-19.775	1.00	22.35		O
ANISOU	4571	O	VAL	E	403	3382	2190	2919	-393	524	-677	O
ATOM	4572	N	PHE	E	404	33.229	-27.437	-17.677	1.00	21.32		N
ANISOU	4572	N	PHE	E	404	3216	1843	3042	-331	550	-651	N
ATOM	4573	CA	PHE	E	404	31.791	-27.400	-17.481	1.00	21.21		C
ANISOU	4573	CA	PHE	E	404	3184	1815	3059	-366	483	-626	C
ATOM	4574	CB	PHE	E	404	31.482	-27.898	-16.078	1.00	20.30		C
ANISOU	4574	CB	PHE	E	404	3054	1582	3076	-361	502	-585	C
ATOM	4575	CG	PHE	E	404	30.035	-27.900	-15.746	1.00	19.75		C
ANISOU	4575	CG	PHE	E	404	2939	1514	3051	-412	461	-575	C
ATOM	4576	CD1	PHE	E	404	29.247	-29.023	-16.055	1.00	19.38		C
ANISOU	4576	CD1	PHE	E	404	2879	1427	3057	-483	446	-667	C
ATOM	4577	CE1	PHE	E	404	27.907	-29.040	-15.754	1.00	19.00		C
ANISOU	4577	CE1	PHE	E	404	2759	1402	3058	-547	417	-672	C
ATOM	4578	CZ	PHE	E	404	27.319	-27.946	-15.109	1.00	19.40		C
ANISOU	4578	CZ	PHE	E	404	2745	1515	3110	-518	407	-596	C
ATOM	4579	CE2	PHE	E	404	28.097	-26.822	-14.789	1.00	17.30		C
ANISOU	4579	CE2	PHE	E	404	2507	1267	2799	-435	418	-512	C
ATOM	4580	CD2	PHE	E	404	29.458	-26.815	-15.107	1.00	15.18		C
ANISOU	4580	CD2	PHE	E	404	2315	974	2477	-394	445	-496	C
ATOM	4581	C	PHE	E	404	31.176	-26.003	-17.703	1.00	21.45		C
ANISOU	4581	C	PHE	E	404	3204	1924	3023	-364	423	-525	C
ATOM	4582	O	PHE	E	404	30.026	-25.880	-18.163	1.00	22.44		O
ANISOU	4582	O	PHE	E	404	3300	2097	3129	-384	344	-535	O
ATOM	4583	N	SER	E	405	31.953	-24.969	-17.400	1.00	21.06		N
ANISOU	4583	N	SER	E	405	3173	1878	2951	-336	451	-437	N
ATOM	4584	CA	SER	E	405	31.531	-23.571	-17.521	1.00	21.22		C
ANISOU	4584	CA	SER	E	405	3201	1919	2941	-322	396	-331	C
ATOM	4585	CB	SER	E	405	32.564	-22.651	-16.867	1.00	20.19		C
ANISOU	4585	CB	SER	E	405	3090	1748	2835	-309	450	-261	C
ATOM	4586	OG	SER	E	405	33.724	-22.537	-17.685	1.00	22.95		O
ANISOU	4586	OG	SER	E	405	3477	2159	3084	-349	505	-260	O
ATOM	4587	C	SER	E	405	31.306	-23.154	-18.975	1.00	22.42		C
ANISOU	4587	C	SER	E	405	3398	2173	2949	-348	331	-301	C
ATOM	4588	O	SER	E	405	30.560	-22.202	-19.254	1.00	23.42		O
ANISOU	4588	O	SER	E	405	3532	2307	3060	-324	239	-211	O
ATOM	4589	N	GLN	E	406	31.952	-23.865	-19.900	1.00	23.01		N
ANISOU	4589	N	GLN	E	406	3502	2329	2912	-392	374	-379	N
ATOM	4590	CA	GLN	E	406	31.820	-23.613	-21.329	1.00	23.93		C
ANISOU	4590	CA	GLN	E	406	3671	2581	2840	-437	323	-363	C
ATOM	4591	CB	GLN	E	406	30.363	-23.731	-21.769	1.00	23.93		C
ANISOU	4591	CB	GLN	E	406	3642	2627	2824	-428	184	-375	C
ATOM	4592	CG	GLN	E	406	29.800	-25.108	-21.530	1.00	25.61		C
ANISOU	4592	CG	GLN	E	406	3790	2817	3125	-445	190	-542	C
ATOM	4593	CD	GLN	E	406	28.374	-25.265	-22.015	1.00	26.20		C
ANISOU	4593	CD	GLN	E	406	3807	2964	3185	-456	52	-581	C
ATOM	4594	OE1	GLN	E	406	27.534	-24.417	-21.751	1.00	27.21		O
ANISOU	4594	OE1	GLN	E	406	3891	3085	3361	-406	-42	-484	O

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Figure 18 (continued)

ATOM	4595	NE2	GLN	E	406	28.100	-26.358	-22.741	1.00	26.20		N
ANISOU	4595	NE2	GLN	E	406	3793	3035	3128	-519	35	-744	N
ATOM	4596	C	GLN	E	406	32.420	-22.265	-21.765	1.00	24.66		C
ANISOU	4596	C	GLN	E	406	3837	2702	2830	-463	327	-203	C
ATOM	4597	O	GLN	E	406	32.100	-21.780	-22.848	1.00	26.26		O
ANISOU	4597	O	GLN	E	406	4104	3005	2869	-497	254	-125	O
ATOM	4598	N	GLU	E	407	33.294	-21.675	-20.941	1.00	23.80		N
ANISOU	4598	N	GLU	E	407	3726	2506	2810	-459	407	-149	N
ATOM	4599	CA	GLU	E	407	33.961	-20.391	-21.287	1.00	25.17		C
ANISOU	4599	CA	GLU	E	407	3974	2678	2913	-513	429	1	C
ATOM	4600	CB	GLU	E	407	34.926	-19.945	-20.188	1.00	24.30		C
ANISOU	4600	CB	GLU	E	407	3829	2469	2934	-515	519	5	C
ATOM	4601	CG	GLU	E	407	34.281	-19.528	-18.878	1.00	24.55		C
ANISOU	4601	CG	GLU	E	407	3821	2356	3150	-436	467	19	C
ATOM	4602	CD	GLU	E	407	34.947	-18.299	-18.237	1.00	25.54		C
ANISOU	4602	CD	GLU	E	407	3969	2380	3355	-464	499	96	C
ATOM	4603	OE1	GLU	E	407	35.873	-17.724	-18.827	1.00	30.35		O
ANISOU	4603	OE1	GLU	E	407	4626	3019	3887	-559	558	160	O
ATOM	4604	OE2	GLU	E	407	34.530	-17.876	-17.153	1.00	23.13		O
ANISOU	4604	OE2	GLU	E	407	3631	1969	3188	-407	470	83	O
ATOM	4605	C	GLU	E	407	34.732	-20.428	-22.598	1.00	27.34		C
ANISOU	4605	C	GLU	E	407	4309	3114	2966	-616	494	10	C
ATOM	4606	O	GLU	E	407	35.326	-21.447	-22.949	1.00	27.53		O
ANISOU	4606	O	GLU	E	407	4289	3241	2928	-640	584	-143	O
ATOM	4607	N	ASP	E	408	34.720	-19.296	-23.313	1.00	30.09		N
ANISOU	4607	N	ASP	E	408	4761	3478	3194	-677	453	192	N
ATOM	4608	CA	ASP	E	408	35.466	-19.149	-24.567	1.00	32.41		C
ANISOU	4608	CA	ASP	E	408	5129	3945	3239	-807	529	238	C
ATOM	4609	CB	ASP	E	408	35.129	-17.845	-25.296	1.00	34.46		C
ANISOU	4609	CB	ASP	E	408	5534	4184	3374	-865	434	495	C
ATOM	4610	CG	ASP	E	408	35.833	-17.727	-26.652	1.00	38.94		C
ANISOU	4610	CG	ASP	E	408	6196	4964	3636	-1025	519	562	C
ATOM	4611	OD1	ASP	E	408	35.458	-18.436	-27.618	1.00	39.82		O
ANISOU	4611	OD1	ASP	E	408	6324	5271	3536	-1043	486	487	O
ATOM	4612	OD2	ASP	E	408	36.777	-16.908	-26.746	1.00	42.86		O
ANISOU	4612	OD2	ASP	E	408	6747	5443	4095	-1150	628	682	O
ATOM	4613	C	ASP	E	408	36.971	-19.282	-24.378	1.00	32.45		C
ANISOU	4613	C	ASP	E	408	5078	4004	3248	-892	721	155	C
ATOM	4614	O	ASP	E	408	37.656	-19.768	-25.273	1.00	34.09		O
ANISOU	4614	O	ASP	E	408	5278	4400	3273	-979	829	69	O
ATOM	4615	N	ACYS	E	409	37.497	-18.881	-23.224	0.50	31.13		N
ANISOU	4615	N	ACYS	E	409	4853	3694	3283	-867	764	157	N
ATOM	4616	N	BCYS	E	409	37.455	-18.823	-23.224	0.50	31.33		N
ANISOU	4616	N	BCYS	E	409	4884	3713	3309	-867	757	167	N
ATOM	4617	CA	ACYS	E	409	38.945	-18.986	-22.993	0.50	31.70		C
ANISOU	4617	CA	ACYS	E	409	4839	3830	3375	-943	929	67	C
ATOM	4618	CA	BCYS	E	409	38.853	-18.961	-22.819	0.50	31.92		C
ANISOU	4618	CA	BCYS	E	409	4865	3831	3435	-926	915	70	C
ATOM	4619	CB	ACYS	E	409	39.418	-17.964	-21.963	0.50	31.37		C
ANISOU	4619	CB	ACYS	E	409	4782	3631	3504	-966	941	149	C
ATOM	4620	CB	BCYS	E	409	39.050	-18.424	-21.402	0.50	30.51		C
ANISOU	4620	CB	BCYS	E	409	4633	3474	3486	-876	897	85	C
ATOM	4621	SG	ACYS	E	409	39.457	-18.589	-20.296	0.50	30.93		S
ANISOU	4621	SG	ACYS	E	409	4597	3457	3698	-823	915	5	S
ATOM	4622	SG	BCYS	E	409	39.461	-16.682	-21.315	0.50	36.34		S
ANISOU	4622	SG	BCYS	E	409	5462	4091	4256	-1005	908	284	S
ATOM	4623	C	ACYS	E	409	39.403	-20.401	-22.601	0.50	30.56		C
ANISOU	4623	C	ACYS	E	409	4560	3745	3307	-857	994	-170	C
ATOM	4624	C	BCYS	E	409	39.290	-20.414	-22.846	0.50	31.07		C
ANISOU	4624	C	BCYS	E	409	4642	3832	3331	-867	989	-162	C
ATOM	4625	O	ACYS	E	409	40.607	-20.690	-22.587	0.50	31.33		O
ANISOU	4625	O	ACYS	E	409	4558	3935	3409	-897	1126	-280	O
ATOM	4626	O	BCYS	E	409	40.354	-20.744	-23.379	0.50	32.50		O
ANISOU	4626	O	BCYS	E	409	4760	4166	3424	-938	1128	-266	O
ATOM	4627	N	MSE	E	410	38.447	-21.267	-22.266	1.00	28.89		N
ANISOU	4627	N	MSE	E	410	4337	3470	3171	-740	899	-246	N
ATOM	4628	CA	MSE	E	410	38.702	-22.687	-22.159	1.00	27.78		C
ANISOU	4628	CA	MSE	E	410	4109	3364	3084	-665	940	-452	C
ATOM	4629	CB	MSE	E	410	37.602	-23.336	-21.317	1.00	25.84		C
ANISOU	4629	CB	MSE	E	410	3858	2970	2988	-556	826	-475	C
ATOM	4630	CG	MSE	E	410	37.745	-24.812	-21.107	1.00	24.62		C

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Figure 18 (continued)

ANISOU	4630	CG	MSE	E	410	3640	2790	2925	-480	849	-661	C
ATOM	4631	SE	MSE	E	410	36.814	-25.805	-22.457	0.90	25.74		SE
ANISOU	4631	SE	MSE	E	410	3827	3028	2924	-506	808	-801	SE
ATOM	4632	CE	MSE	E	410	35.017	-25.128	-22.097	1.00	23.87		C
ANISOU	4632	CE	MSE	E	410	3650	2703	2716	-500	633	-631	C
ATOM	4633	C	MSE	E	410	38.792	-23.291	-23.566	1.00	29.33		C
ANISOU	4633	C	MSE	E	410	4324	3746	3072	-725	995	-564	C
ATOM	4634	O	MSE	E	410	39.716	-24.018	-23.894	1.00	29.96		O
ANISOU	4634	O	MSE	E	410	4323	3928	3131	-726	1112	-737	O
ATOM	4635	N	ILE	E	411	37.828	-22.957	-24.405	1.00	30.56		N
ANISOU	4635	N	ILE	E	411	4583	3960	3069	-769	906	-474	N
ATOM	4636	CA	ILE	E	411	37.776	-23.470	-25.766	1.00	32.47		C
ANISOU	4636	CA	ILE	E	411	4859	4406	3073	-837	938	-578	C
ATOM	4637	CB	ILE	E	411	36.401	-23.150	-26.397	1.00	32.92		C
ANISOU	4637	CB	ILE	E	411	5019	4490	3001	-847	769	-462	C
ATOM	4638	CG1	ILE	E	411	35.373	-24.172	-25.895	1.00	33.37		C
ANISOU	4638	CG1	ILE	E	411	5025	4439	3216	-745	664	-594	C
ATOM	4639	CD1	ILE	E	411	33.977	-23.673	-25.783	1.00	34.15		C
ANISOU	4639	CD1	ILE	E	411	5163	4473	3339	-708	481	-458	C
ATOM	4640	CG2	ILE	E	411	36.431	-23.283	-27.907	1.00	35.77		C
ANISOU	4640	CG2	ILE	E	411	5446	5105	3040	-954	792	-507	C
ATOM	4641	C	ILE	E	411	38.973	-22.985	-26.599	1.00	34.59		C
ANISOU	4641	C	ILE	E	411	5130	4868	3144	-972	1100	-571	C
ATOM	4642	O	ILE	E	411	39.547	-23.735	-27.392	1.00	36.40		O
ANISOU	4642	O	ILE	E	411	5312	5278	3240	-1009	1214	-766	O
ATOM	4643	N	LYS	E	412	39.383	-21.744	-26.380	1.00	34.85		N
ANISOU	4643	N	LYS	E	412	5209	4862	3172	-1052	1123	-363	N
ATOM	4644	CA	LYS	E	412	40.525	-21.193	-27.085	1.00	36.94		C
ANISOU	4644	CA	LYS	E	412	5471	5303	3261	-1213	1291	-333	C
ATOM	4645	CB	LYS	E	412	40.472	-19.660	-27.055	1.00	37.70		C
ANISOU	4645	CB	LYS	E	412	5690	5312	3323	-1323	1253	-33	C
ATOM	4646	CG	LYS	E	412	39.344	-19.044	-27.912	1.00	38.14		C
ANISOU	4646	CG	LYS	E	412	5929	5383	3179	-1358	1097	184	C
ATOM	4647	CD	LYS	E	412	39.476	-19.441	-29.388	1.00	42.37		C
ANISOU	4647	CD	LYS	E	412	6522	6218	3360	-1478	1167	132	C
ATOM	4648	CE	LYS	E	412	38.440	-18.757	-30.263	1.00	43.95		C
ANISOU	4648	CE	LYS	E	412	6909	6454	3335	-1517	992	376	C
ATOM	4649	NZ	LYS	E	412	37.050	-19.198	-29.938	1.00	43.30		N
ANISOU	4649	NZ	LYS	E	412	6823	6258	3371	-1341	770	345	N
ATOM	4650	C	LYS	E	412	41.870	-21.724	-26.575	1.00	37.07		C
ANISOU	4650	C	LYS	E	412	5308	5363	3414	-1197	1460	-534	C
ATOM	4651	O	LYS	E	412	42.886	-21.588	-27.252	1.00	39.36		O
ANISOU	4651	O	LYS	E	412	5545	5853	3557	-1327	1633	-594	O
ATOM	4652	N	ALA	E	413	41.872	-22.336	-25.390	1.00	35.02		N
ANISOU	4652	N	ALA	E	413	4949	4932	3426	-1041	1408	-635	N
ATOM	4653	CA	ALA	E	413	43.087	-22.942	-24.833	1.00	34.68		C
ANISOU	4653	CA	ALA	E	413	4723	4918	3536	-985	1526	-827	C
ATOM	4654	CB	ALA	E	413	43.016	-22.990	-23.309	1.00	31.70		C
ANISOU	4654	CB	ALA	E	413	4291	4318	3437	-852	1426	-795	C
ATOM	4655	C	ALA	E	413	43.387	-24.329	-25.422	1.00	35.53		C
ANISOU	4655	C	ALA	E	413	4738	5144	3617	-907	1600	-1111	C
ATOM	4656	O	ALA	E	413	44.438	-24.908	-25.156	1.00	36.10		O
ANISOU	4656	O	ALA	E	413	4646	5265	3807	-844	1701	-1297	O
ATOM	4657	N	VAL	E	414	42.471	-24.854	-26.229	1.00	36.17		N
ANISOU	4657	N	VAL	E	414	4917	5270	3556	-905	1543	-1161	N
ATOM	4658	CA	VAL	E	414	42.703	-26.137	-26.896	1.00	37.60		C
ANISOU	4658	CA	VAL	E	414	5026	5559	3703	-846	1616	-1457	C
ATOM	4659	CB	VAL	E	414	41.425	-26.689	-27.557	1.00	37.84		C
ANISOU	4659	CB	VAL	E	414	5176	5586	3615	-840	1499	-1498	C
ATOM	4660	CG1	VAL	E	414	41.758	-27.878	-28.499	1.00	39.24		C
ANISOU	4660	CG1	VAL	E	414	5290	5919	3703	-822	1602	-1834	C
ATOM	4661	CG2	VAL	E	414	40.407	-27.088	-26.498	1.00	33.57		C
ANISOU	4661	CG2	VAL	E	414	4671	4769	3316	-713	1324	-1430	C
ATOM	4662	C	VAL	E	414	43.829	-26.037	-27.933	1.00	41.28		C
ANISOU	4662	C	VAL	E	414	5406	6318	3960	-969	1828	-1600	C
ATOM	4663	O	VAL	E	414	43.854	-25.126	-28.772	1.00	41.91		O
ANISOU	4663	O	VAL	E	414	5575	6580	3769	-1151	1889	-1455	O
ATOM	4664	N	ARG	E	415	44.752	-26.995	-27.862	1.00	43.28		N
ANISOU	4664	N	ARG	E	415	5485	6615	4345	-866	1940	-1885	N
ATOM	4665	CA	ARG	E	415	45.838	-27.092	-28.822	1.00	47.04		C
ANISOU	4665	CA	ARG	E	415	5837	7389	4648	-962	2163	-2091	C

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Figure 18 (continued)

ATOM	4666	CB	ARG	E	415	47.205	-27.002	-28.123	1.00	47.50	C	
ANISOU	4666	CB	ARG	E	415	5672	7467	4909	-912	2278	-2175	C
ATOM	4667	CG	ARG	E	415	47.450	-25.686	-27.389	1.00	46.34	C	
ANISOU	4667	CG	ARG	E	415	5545	7256	4804	-1020	2250	-1881	C
ATOM	4668	CD	ARG	E	415	47.536	-24.502	-28.344	1.00	49.52	C	
ANISOU	4668	CD	ARG	E	415	6053	7875	4887	-1292	2366	-1695	C
ATOM	4669	NE	ARG	E	415	47.747	-23.254	-27.607	1.00	48.95	N	
ANISOU	4669	NE	ARG	E	415	6011	7694	4895	-1396	2332	-1427	N
ATOM	4670	CZ	ARG	E	415	46.795	-22.365	-27.330	1.00	46.89	C	
ANISOU	4670	CZ	ARG	E	415	5952	7256	4608	-1446	2181	-1130	C
ATOM	4671	NH1	ARG	E	415	45.553	-22.573	-27.751	1.00	46.50	N	
ANISOU	4671	NH1	ARG	E	415	6082	7142	4444	-1404	2044	-1050	N
ATOM	4672	NH2	ARG	E	415	47.094	-21.257	-26.644	1.00	44.45	N	
ANISOU	4672	NH2	ARG	E	415	5654	6838	4397	-1538	2164	-932	N
ATOM	4673	C	ARG	E	415	45.722	-28.376	-29.633	1.00	49.40	C	
ANISOU	4673	C	ARG	E	415	6100	7778	4892	-885	2213	-2430	C
ATOM	4674	O	ARG	E	415	45.571	-29.466	-29.075	1.00	49.22	O	
ANISOU	4674	O	ARG	E	415	6023	7550	5130	-691	2135	-2605	O
ATOM	4675	N	GLY	E	416	45.791	-28.237	-30.952	1.00	52.08	N	
ANISOU	4675	N	GLY	E	416	6480	8422	4887	-1048	2344	-2521	N
ATOM	4676	CA	GLY	E	416	45.624	-29.371	-31.844	1.00	54.89	C	
ANISOU	4676	CA	GLY	E	416	6816	8897	5143	-1004	2397	-2865	C
ATOM	4677	C	GLY	E	416	44.169	-29.796	-31.969	1.00	53.94	C	
ANISOU	4677	C	GLY	E	416	6874	8627	4993	-972	2190	-2820	C
ATOM	4678	O	GLY	E	416	43.287	-29.229	-31.316	1.00	51.70	O	
ANISOU	4678	O	GLY	E	416	6715	8147	4783	-967	2007	-2522	O
ATOM	4679	N	ASP	E	417	43.932	-30.798	-32.812	1.00	56.14	N	
ANISOU	4679	N	ASP	E	417	7149	9009	5171	-954	2224	-3142	N
ATOM	4680	CA	ASP	E	417	42.594	-31.308	-33.083	1.00	55.99	C	
ANISOU	4680	CA	ASP	E	417	7273	8893	5107	-947	2041	-3164	C
ATOM	4681	CB	ASP	E	417	42.535	-31.971	-34.471	1.00	59.31	C	
ANISOU	4681	CB	ASP	E	417	7703	9606	5227	-1034	2138	-3503	C
ATOM	4682	CG	ASP	E	417	42.443	-30.958	-35.618	1.00	61.53	C	
ANISOU	4682	CG	ASP	E	417	8097	10274	5009	-1270	2196	-3338	C
ATOM	4683	OD1	ASP	E	417	42.191	-29.761	-35.352	1.00	58.40	O	
ANISOU	4683	OD1	ASP	E	417	7803	9867	4522	-1359	2119	-2936	O
ATOM	4684	OD2	ASP	E	417	42.607	-31.366	-36.801	1.00	64.87	O	
ANISOU	4684	OD2	ASP	E	417	8516	11011	5120	-1369	2315	-3613	O
ATOM	4685	C	ASP	E	417	42.153	-32.295	-32.013	1.00	54.22	C	
ANISOU	4685	C	ASP	E	417	7020	8277	5303	-748	1903	-3244	C
ATOM	4686	O	ASP	E	417	42.985	-32.986	-31.415	1.00	54.68	O	
ANISOU	4686	O	ASP	E	417	6940	8187	5651	-592	1974	-3422	O
ATOM	4687	N	LEU	E	418	40.845	-32.359	-31.782	1.00	52.57	N	
ANISOU	4687	N	LEU	E	418	6940	7908	5127	-756	1703	-3107	N
ATOM	4688	CA	LEU	E	418	40.294	-33.303	-30.826	1.00	51.40	C	
ANISOU	4688	CA	LEU	E	418	6787	7397	5344	-610	1576	-3164	C
ATOM	4689	CB	LEU	E	418	39.353	-32.585	-29.850	1.00	48.14	C	
ANISOU	4689	CB	LEU	E	418	6464	6792	5037	-613	1398	-2795	C
ATOM	4690	CG	LEU	E	418	39.926	-31.400	-29.056	1.00	45.99	C	
ANISOU	4690	CG	LEU	E	418	6170	6504	4798	-611	1421	-2486	C
ATOM	4691	CD1	LEU	E	418	38.849	-30.744	-28.220	1.00	44.92	C	
ANISOU	4691	CD1	LEU	E	418	6125	6198	4746	-616	1247	-2179	C
ATOM	4692	CD2	LEU	E	418	41.082	-31.819	-28.178	1.00	46.73	C	
ANISOU	4692	CD2	LEU	E	418	6131	6455	5169	-468	1509	-2568	C
ATOM	4693	C	LEU	E	418	39.612	-34.486	-31.533	1.00	53.69	C	
ANISOU	4693	C	LEU	E	418	7109	7665	5627	-615	1533	-3488	C
ATOM	4694	O	LEU	E	418	38.647	-34.299	-32.289	1.00	54.45	O	
ANISOU	4694	O	LEU	E	418	7301	7912	5477	-742	1440	-3471	O
ATOM	4695	N	ASN	E	419	40.129	-35.693	-31.277	1.00	55.13	N	
ANISOU	4695	N	ASN	E	419	7208	7649	6090	-474	1588	-3786	N
ATOM	4696	CA	ASN	E	419	39.644	-36.931	-31.904	1.00	57.91	C	
ANISOU	4696	CA	ASN	E	419	7578	7933	6493	-469	1567	-4150	C
ATOM	4697	CB	ASN	E	419	40.546	-37.300	-33.088	1.00	61.18	C	
ANISOU	4697	CB	ASN	E	419	7904	8639	6703	-488	1763	-4536	C
ATOM	4698	CG	ASN	E	419	40.444	-36.311	-34.223	1.00	62.11	C	
ANISOU	4698	CG	ASN	E	419	8073	9206	6320	-687	1822	-4458	C
ATOM	4699	OD1	ASN	E	419	39.366	-36.093	-34.773	1.00	61.35	O	
ANISOU	4699	OD1	ASN	E	419	8092	9224	5995	-820	1694	-4388	O
ATOM	4700	ND2	ASN	E	419	41.572	-35.692	-34.576	1.00	64.20	N	
ANISOU	4700	ND2	ASN	E	419	8248	9736	6409	-717	2012	-4458	N
ATOM	4701	C	ASN	E	419	39.519	-38.140	-30.958	1.00	58.48	C	

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Figure 18 (continued)

ANISOU	4701	C	ASN	E	419	7640	7561	7019	-310	1493	-4262	C
ATOM	4702	O	ASN	E	419	39.706	-39.289	-31.387	1.00	60.83		O
ANISOU	4702	O	ASN	E	419	7906	7757	7451	-247	1539	-4636	O
ATOM	4703	N	PHE	E	420	39.191	-37.883	-29.687	1.00	56.70		N
ANISOU	4703	N	PHE	E	420	7451	7072	7023	-252	1380	-3940	N
ATOM	4704	CA	PHE	E	420	39.084	-38.931	-28.651	1.00	57.43		C
ANISOU	4704	CA	PHE	E	420	7556	6734	7531	-114	1302	-3962	C
ATOM	4705	CB	PHE	E	420	38.919	-38.322	-27.244	1.00	54.05		C
ANISOU	4705	CB	PHE	E	420	7156	6122	7256	-69	1207	-3556	C
ATOM	4706	CG	PHE	E	420	40.157	-37.660	-26.718	1.00	53.02		C
ANISOU	4706	CG	PHE	E	420	6924	6072	7150	40	1288	-3429	C
ATOM	4707	CD1	PHE	E	420	40.232	-36.271	-26.623	1.00	49.71		C
ANISOU	4707	CD1	PHE	E	420	6500	5880	6506	-48	1302	-3156	C
ATOM	4708	CE1	PHE	E	420	41.378	-35.643	-26.140	1.00	48.97		C
ANISOU	4708	CE1	PHE	E	420	6301	5865	6440	27	1377	-3055	C
ATOM	4709	CZ	PHE	E	420	42.477	-36.409	-25.744	1.00	51.30		C
ANISOU	4709	CZ	PHE	E	420	6475	6032	6983	212	1429	-3226	C
ATOM	4710	CE2	PHE	E	420	42.419	-37.803	-25.839	1.00	54.45		C
ANISOU	4710	CE2	PHE	E	420	6879	6193	7615	329	1405	-3490	C
ATOM	4711	CD2	PHE	E	420	41.259	-38.425	-26.323	1.00	54.30		C
ANISOU	4711	CD2	PHE	E	420	6985	6074	7573	234	1341	-3591	C
ATOM	4712	C	PHE	E	420	37.958	-39.927	-28.902	1.00	59.71		C
ANISOU	4712	C	PHE	E	420	7933	6829	7924	-188	1203	-4135	C
ATOM	4713	O	PHE	E	420	36.885	-39.562	-29.385	1.00	59.38		O
ANISOU	4713	O	PHE	E	420	7955	6933	7674	-352	1122	-4078	O
ATOM	4714	N	VAL	E	421	38.221	-41.179	-28.526	1.00	62.76		N
ANISOU	4714	N	VAL	E	421	8318	6873	8656	-62	1198	-4339	N
ATOM	4715	CA	VAL	E	421	37.341	-42.318	-28.779	1.00	66.10		C
ANISOU	4715	CA	VAL	E	421	8817	7058	9241	-128	1126	-4568	C
ATOM	4716	CB	VAL	E	421	37.809	-43.068	-30.056	1.00	69.65		C
ANISOU	4716	CB	VAL	E	421	9215	7633	9617	-116	1235	-5067	C
ATOM	4717	CG1	VAL	E	421	37.690	-44.582	-29.918	1.00	73.52		C
ANISOU	4717	CG1	VAL	E	421	9747	7695	10491	-41	1203	-5363	C
ATOM	4718	CG2	VAL	E	421	37.063	-42.546	-31.282	1.00	70.73		C
ANISOU	4718	CG2	VAL	E	421	9372	8169	9332	-327	1231	-5178	C
ATOM	4719	C	VAL	E	421	37.312	-43.237	-27.547	1.00	66.76		C
ANISOU	4719	C	VAL	E	421	8958	6647	9763	-10	1048	-4463	C
ATOM	4720	O	VAL	E	421	38.339	-43.406	-26.881	1.00	67.09		O
ANISOU	4720	O	VAL	E	421	8949	6536	10006	185	1081	-4409	O
ATOM	4721	N	ASN	E	422	36.145	-43.820	-27.243	1.00	67.53		N
ANISOU	4721	N	ASN	E	422	9155	6503	9999	-136	942	-4424	N
ATOM	4722	CA	ASN	E	422	35.987	-44.671	-26.041	1.00	68.08		C
ANISOU	4722	CA	ASN	E	422	9309	6098	10459	-68	865	-4271	C
ATOM	4723	CB	ASN	E	422	34.522	-44.727	-25.572	1.00	67.27		C
ANISOU	4723	CB	ASN	E	422	9296	5877	10386	-278	760	-4080	C
ATOM	4724	CG	ASN	E	422	33.535	-44.977	-26.713	1.00	69.70		C
ANISOU	4724	CG	ASN	E	422	9604	6341	10538	-481	739	-4363	C
ATOM	4725	OD1	ASN	E	422	32.448	-44.388	-26.738	1.00	68.72		O
ANISOU	4725	OD1	ASN	E	422	9477	6388	10245	-657	670	-4214	O
ATOM	4726	ND2	ASN	E	422	33.905	-45.848	-27.657	1.00	72.67		N
ANISOU	4726	ND2	ASN	E	422	9970	6669	10973	-451	789	-4791	N
ATOM	4727	C	ASN	E	422	36.580	-46.085	-26.139	1.00	71.50		C
ANISOU	4727	C	ASN	E	422	9766	6157	11244	78	884	-4587	C
ATOM	4728	O	ASN	E	422	36.751	-46.632	-27.227	1.00	74.15		O
ANISOU	4728	O	ASN	E	422	10065	6559	11547	73	946	-5000	O
ATOM	4729	N	ARG	E	427	33.161	-42.328	-30.481	1.00	65.32		N
ANISOU	4729	N	ARG	E	427	8875	7278	8664	-761	800	-4699	N
ATOM	4730	CA	ARG	E	427	33.763	-40.998	-30.490	1.00	62.98		C
ANISOU	4730	CA	ARG	E	427	8546	7283	8101	-712	849	-4431	C
ATOM	4731	CB	ARG	E	427	33.673	-40.369	-31.883	1.00	65.03		C
ANISOU	4731	CB	ARG	E	427	8792	8005	7911	-823	864	-4564	C
ATOM	4732	CG	ARG	E	427	34.458	-39.089	-31.984	1.00	64.47		C
ANISOU	4732	CG	ARG	E	427	8699	8216	7579	-784	943	-4317	C
ATOM	4733	CD	ARG	E	427	33.754	-38.015	-32.796	1.00	67.22		C
ANISOU	4733	CD	ARG	E	427	9082	8944	7515	-926	854	-4158	C
ATOM	4734	NE	ARG	E	427	34.445	-36.739	-32.601	1.00	67.49		N
ANISOU	4734	NE	ARG	E	427	9116	9147	7382	-892	917	-3843	N
ATOM	4735	CZ	ARG	E	427	35.598	-36.405	-33.186	1.00	69.71		C
ANISOU	4735	CZ	ARG	E	427	9366	9652	7467	-875	1082	-3922	C
ATOM	4736	NH1	ARG	E	427	36.196	-37.243	-34.034	1.00	71.76		N
ANISOU	4736	NH1	ARG	E	427	9587	10022	7658	-875	1208	-4324	N

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Figure 18 (continued)

ATOM	4737	NH2	ARG	E	427	36.152	-35.226	-32.920	1.00	67.88	N	
ANISOU	4737	NH2	ARG	E	427	9137	9538	7117	-868	1131	-3614	N
ATOM	4738	C	ARG	E	427	33.075	-40.091	-29.485	1.00	58.80	C	
ANISOU	4738	C	ARG	E	427	8035	6711	7596	-740	749	-3994	C
ATOM	4739	O	ARG	E	427	31.865	-39.867	-29.575	1.00	58.91	O	
ANISOU	4739	O	ARG	E	427	8061	6791	7533	-873	626	-3912	O
ATOM	4740	N	LEU	E	428	33.848	-39.555	-28.545	1.00	55.36	N	
ANISOU	4740	N	LEU	E	428	7586	6185	7263	-612	800	-3735	N
ATOM	4741	CA	LEU	E	428	33.293	-38.797	-27.419	1.00	50.88	C	
ANISOU	4741	CA	LEU	E	428	7034	5531	6765	-619	721	-3349	C
ATOM	4742	CB	LEU	E	428	34.399	-38.397	-26.432	1.00	48.72	C	
ANISOU	4742	CB	LEU	E	428	6740	5151	6618	-464	792	-3144	C
ATOM	4743	CG	LEU	E	428	35.420	-39.432	-25.919	1.00	49.33	C	
ANISOU	4743	CG	LEU	E	428	6806	4945	6991	-304	858	-3284	C
ATOM	4744	CD1	LEU	E	428	36.268	-38.834	-24.795	1.00	44.63	C	
ANISOU	4744	CD1	LEU	E	428	6182	4285	6491	-173	879	-3013	C
ATOM	4745	CD2	LEU	E	428	34.776	-40.760	-25.451	1.00	49.60	C	
ANISOU	4745	CD2	LEU	E	428	6906	4603	7335	-323	795	-3387	C
ATOM	4746	C	LEU	E	428	32.532	-37.565	-27.894	1.00	49.08	C	
ANISOU	4746	C	LEU	E	428	6802	5617	6229	-725	643	-3163	C
ATOM	4747	O	LEU	E	428	32.874	-36.983	-28.932	1.00	49.55	O	
ANISOU	4747	O	LEU	E	428	6855	5985	5989	-757	677	-3230	O
ATOM	4748	N	ASN	E	429	31.494	-37.179	-27.148	1.00	46.94	N	
ANISOU	4748	N	ASN	E	429	6534	5270	6032	-780	538	-2933	N
ATOM	4749	CA	ASN	E	429	30.814	-35.909	-27.424	1.00	45.15	C	
ANISOU	4749	CA	ASN	E	429	6294	5299	5563	-837	448	-2718	C
ATOM	4750	CB	ASN	E	429	29.427	-35.795	-26.731	1.00	44.53	C	
ANISOU	4750	CB	ASN	E	429	6183	5130	5604	-909	324	-2571	C
ATOM	4751	CG	ASN	E	429	29.505	-35.650	-25.216	1.00	43.04	C	
ANISOU	4751	CG	ASN	E	429	5995	4702	5656	-844	356	-2335	C
ATOM	4752	OD1	ASN	E	429	30.552	-35.375	-24.647	1.00	44.36	O	
ANISOU	4752	OD1	ASN	E	429	6185	4799	5871	-736	441	-2227	O
ATOM	4753	ND2	ASN	E	429	28.369	-35.826	-24.559	1.00	44.32	N	
ANISOU	4753	ND2	ASN	E	429	6122	4763	5956	-921	286	-2262	N
ATOM	4754	C	ASN	E	429	31.770	-34.724	-27.176	1.00	42.35	C	
ANISOU	4754	C	ASN	E	429	5946	5058	5088	-750	517	-2486	C
ATOM	4755	O	ASN	E	429	32.811	-34.903	-26.528	1.00	41.08	O	
ANISOU	4755	O	ASN	E	429	5779	4756	5072	-648	619	-2464	O
ATOM	4756	N	PRO	E	430	31.476	-33.549	-27.774	1.00	41.73	N	
ANISOU	4756	N	PRO	E	430	5879	5236	4742	-793	458	-2330	N
ATOM	4757	CA	PRO	E	430	32.316	-32.355	-27.629	1.00	39.46	C	
ANISOU	4757	CA	PRO	E	430	5608	5050	4333	-744	520	-2107	C
ATOM	4758	CB	PRO	E	430	31.423	-31.252	-28.194	1.00	40.25	C	
ANISOU	4758	CB	PRO	E	430	5736	5353	4205	-805	385	-1924	C
ATOM	4759	CG	PRO	E	430	30.653	-31.948	-29.274	1.00	42.76	C	
ANISOU	4759	CG	PRO	E	430	6052	5820	4376	-896	299	-2151	C
ATOM	4760	CD	PRO	E	430	30.346	-33.303	-28.705	1.00	43.03	C	
ANISOU	4760	CD	PRO	E	430	6044	5611	4695	-894	315	-2363	C
ATOM	4761	C	PRO	E	430	32.774	-32.033	-26.201	1.00	36.38	C	
ANISOU	4761	C	PRO	E	430	5201	4442	4180	-650	563	-1910	C
ATOM	4762	O	PRO	E	430	33.960	-31.739	-25.993	1.00	35.32	O	
ANISOU	4762	O	PRO	E	430	5056	4315	4049	-592	673	-1876	O
ATOM	4763	N	MSE	E	431	31.873	-32.122	-25.223	1.00	34.13	N	
ANISOU	4763	N	MSE	E	431	4901	3985	4083	-644	482	-1799	N
ATOM	4764	CA	MSE	E	431	32.236	-31.766	-23.826	1.00	31.35	C	
ANISOU	4764	CA	MSE	E	431	4538	3456	3919	-566	515	-1608	C
ATOM	4765	CB	MSE	E	431	30.985	-31.620	-22.945	1.00	30.30	C	
ANISOU	4765	CB	MSE	E	431	4383	3219	3912	-594	423	-1477	C
ATOM	4766	CG	MSE	E	431	30.087	-30.421	-23.323	1.00	29.63	C	
ANISOU	4766	CG	MSE	E	431	4282	3300	3676	-624	317	-1334	C
ATOM	4767	SE	MSE	E	431	30.966	-28.722	-22.996	0.90	32.22	SE	
ANISOU	4767	SE	MSE	E	431	4642	3693	3906	-556	353	-1079	SE
ATOM	4768	CE	MSE	E	431	31.056	-28.819	-21.067	1.00	26.36	C	
ANISOU	4768	CE	MSE	E	431	3867	2715	3434	-492	401	-968	C
ATOM	4769	C	MSE	E	431	33.244	-32.741	-23.208	1.00	30.85	C	
ANISOU	4769	C	MSE	E	431	4469	3203	4050	-485	609	-1710	C
ATOM	4770	O	MSE	E	431	34.119	-32.348	-22.445	1.00	29.27	O	
ANISOU	4770	O	MSE	E	431	4255	2950	3916	-408	662	-1595	O
ATOM	4771	N	HIS	E	432	33.128	-34.014	-23.562	1.00	32.32	N	
ANISOU	4771	N	HIS	E	432	4662	3283	4336	-499	617	-1934	N
ATOM	4772	CA	HIS	E	432	34.063	-35.044	-23.091	1.00	34.03	C	

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Figure 18 (continued)

ANISOU	4772	CA	HIS	E	432	4877	3292	4760	-399	685	-2050	C
ATOM	4773	CB	HIS	E	432	33.392	-36.424	-23.076	1.00	36.39		C
ANISOU	4773	CB	HIS	E	432	5209	3369	5248	-441	649	-2222	C
ATOM	4774	CG	HIS	E	432	32.433	-36.595	-21.940	1.00	38.68		C
ANISOU	4774	CG	HIS	E	432	5527	3471	5699	-494	584	-2041	C
ATOM	4775	ND1	HIS	E	432	31.189	-35.998	-21.920	1.00	39.39		N
ANISOU	4775	ND1	HIS	E	432	5597	3668	5702	-607	513	-1936	N
ATOM	4776	CE1	HIS	E	432	30.584	-36.288	-20.782	1.00	39.89		C
ANISOU	4776	CE1	HIS	E	432	5675	3550	5932	-643	494	-1795	C
ATOM	4777	NE2	HIS	E	432	31.391	-37.043	-20.058	1.00	41.36		N
ANISOU	4777	NE2	HIS	E	432	5911	3505	6297	-559	536	-1776	N
ATOM	4778	CD2	HIS	E	432	32.561	-37.241	-20.754	1.00	40.10		C
ANISOU	4778	CD2	HIS	E	432	5748	3382	6107	-450	584	-1933	C
ATOM	4779	C	HIS	E	432	35.358	-35.061	-23.901	1.00	35.10		C
ANISOU	4779	C	HIS	E	432	4973	3565	4797	-332	791	-2220	C
ATOM	4780	O	HIS	E	432	36.402	-35.469	-23.410	1.00	35.53		O
ANISOU	4780	O	HIS	E	432	4993	3505	5002	-212	850	-2259	O
ATOM	4781	N	GLN	E	433	35.258	-34.625	-25.152	1.00	35.90		N
ANISOU	4781	N	GLN	E	433	5072	3931	4639	-414	811	-2323	N
ATOM	4782	CA	GLN	E	433	36.394	-34.264	-25.999	1.00	36.69		C
ANISOU	4782	CA	GLN	E	433	5128	4254	4558	-397	931	-2434	C
ATOM	4783	CB	GLN	E	433	35.808	-33.686	-27.294	1.00	38.40		C
ANISOU	4783	CB	GLN	E	433	5382	4764	4444	-531	907	-2469	C
ATOM	4784	CG	GLN	E	433	36.487	-33.958	-28.567	1.00	42.26		C
ANISOU	4784	CG	GLN	E	433	5849	5489	4720	-569	1019	-2729	C
ATOM	4785	CD	GLN	E	433	36.743	-35.422	-28.835	1.00	46.49		C
ANISOU	4785	CD	GLN	E	433	6351	5891	5423	-510	1069	-3088	C
ATOM	4786	OE1	GLN	E	433	37.885	-35.864	-28.762	1.00	46.73		O
ANISOU	4786	OE1	GLN	E	433	6307	5883	5565	-406	1191	-3246	O
ATOM	4787	NE2	GLN	E	433	35.701	-36.170	-29.196	1.00	49.59		N
ANISOU	4787	NE2	GLN	E	433	6786	6216	5839	-577	974	-3240	N
ATOM	4788	C	GLN	E	433	37.266	-33.209	-25.278	1.00	33.83		C
ANISOU	4788	C	GLN	E	433	4728	3932	4195	-345	981	-2204	C
ATOM	4789	O	GLN	E	433	38.456	-33.403	-25.081	1.00	34.24		O
ANISOU	4789	O	GLN	E	433	4705	3974	4330	-254	1077	-2284	O
ATOM	4790	N	LEU	E	434	36.650	-32.110	-24.866	1.00	31.07		N
ANISOU	4790	N	LEU	E	434	4418	3619	3768	-399	908	-1937	N
ATOM	4791	CA	LEU	E	434	37.329	-31.034	-24.128	1.00	28.78		C
ANISOU	4791	CA	LEU	E	434	4102	3346	3486	-372	939	-1719	C
ATOM	4792	CB	LEU	E	434	36.367	-29.855	-23.924	1.00	26.01		C
ANISOU	4792	CB	LEU	E	434	3811	3033	3038	-442	841	-1468	C
ATOM	4793	CG	LEU	E	434	35.966	-29.145	-25.222	1.00	25.54		C
ANISOU	4793	CG	LEU	E	434	3805	3209	2689	-551	822	-1442	C
ATOM	4794	CD1	LEU	E	434	34.729	-28.299	-25.018	1.00	24.35		C
ANISOU	4794	CD1	LEU	E	434	3706	3042	2504	-583	681	-1235	C
ATOM	4795	CD2	LEU	E	434	37.121	-28.319	-25.799	1.00	22.38		C
ANISOU	4795	CD2	LEU	E	434	3397	2995	2113	-602	943	-1400	C
ATOM	4796	C	LEU	E	434	37.900	-31.483	-22.783	1.00	27.76		C
ANISOU	4796	C	LEU	E	434	3927	2997	3622	-250	939	-1675	C
ATOM	4797	O	LEU	E	434	39.014	-31.136	-22.430	1.00	27.07		O
ANISOU	4797	O	LEU	E	434	3771	2946	3569	-196	1008	-1653	O
ATOM	4798	N	LEU	E	435	37.110	-32.250	-22.042	1.00	27.99		N
ANISOU	4798	N	LEU	E	435	3994	2811	3829	-220	856	-1657	N
ATOM	4799	CA	LEU	E	435	37.487	-32.722	-20.719	1.00	27.82		C
ANISOU	4799	CA	LEU	E	435	3960	2577	4035	-116	832	-1578	C
ATOM	4800	CB	LEU	E	435	36.316	-33.464	-20.074	1.00	27.22		C
ANISOU	4800	CB	LEU	E	435	3951	2294	4097	-145	746	-1530	C
ATOM	4801	CG	LEU	E	435	36.445	-33.810	-18.591	1.00	28.04		C
ANISOU	4801	CG	LEU	E	435	4075	2192	4388	-72	705	-1378	C
ATOM	4802	CD1	LEU	E	435	36.646	-32.562	-17.667	1.00	24.26		C
ANISOU	4802	CD1	LEU	E	435	3574	1799	3846	-69	694	-1159	C
ATOM	4803	CD2	LEU	E	435	35.226	-34.633	-18.191	1.00	25.93		C
ANISOU	4803	CD2	LEU	E	435	3877	1742	4232	-145	648	-1354	C
ATOM	4804	C	LEU	E	435	38.771	-33.577	-20.768	1.00	29.75		C
ANISOU	4804	C	LEU	E	435	4131	2762	4410	14	896	-1756	C
ATOM	4805	O	LEU	E	435	39.778	-33.201	-20.144	1.00	28.71		O
ANISOU	4805	O	LEU	E	435	3929	2650	4330	95	921	-1690	O
ATOM	4806	N	ARG	E	436	38.741	-34.676	-21.534	1.00	32.34		N
ANISOU	4806	N	ARG	E	436	4465	3030	4795	35	920	-1999	N
ATOM	4807	CA	ARG	E	436	39.909	-35.546	-21.722	1.00	35.45		C
ANISOU	4807	CA	ARG	E	436	4775	3363	5331	178	982	-2217	C

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Figure 18 (continued)

ATOM	4808	CB	ARG	E	436	39.663	-36.647	-22.752	1.00	39.05	C	
ANISOU	4808	CB	ARG	E	436	5249	3770	5817	172	1014	-2522	C
ATOM	4809	CG	ARG	E	436	38.505	-37.569	-22.494	1.00	44.53	C	
ANISOU	4809	CG	ARG	E	436	6055	4209	6656	124	920	-2530	C
ATOM	4810	CD	ARG	E	436	38.611	-38.440	-21.233	1.00	52.12	C	
ANISOU	4810	CD	ARG	E	436	7061	4819	7923	242	842	-2421	C
ATOM	4811	NE	ARG	E	436	37.245	-38.756	-20.802	1.00	57.30	N	
ANISOU	4811	NE	ARG	E	436	7831	5312	8631	112	760	-2299	N
ATOM	4812	CZ	ARG	E	436	36.618	-38.200	-19.764	1.00	57.95	C	
ANISOU	4812	CZ	ARG	E	436	7958	5361	8701	53	702	-2012	C
ATOM	4813	NH1	ARG	E	436	37.239	-37.329	-18.967	1.00	55.93	N	
ANISOU	4813	NH1	ARG	E	436	7660	5194	8395	119	701	-1810	N
ATOM	4814	NH2	ARG	E	436	35.361	-38.551	-19.498	1.00	60.15	N	
ANISOU	4814	NH2	ARG	E	436	8312	5518	9024	-81	651	-1946	N
ATOM	4815	C	ARG	E	436	41.160	-34.801	-22.148	1.00	35.22	C	
ANISOU	4815	C	ARG	E	436	4619	3580	5182	206	1094	-2273	C
ATOM	4816	O	ARG	E	436	42.231	-35.071	-21.622	1.00	35.85	O	
ANISOU	4816	O	ARG	E	436	4598	3608	5416	348	1111	-2313	O
ATOM	4817	N	HIS	E	437	41.028	-33.904	-23.128	1.00	34.80	N	
ANISOU	4817	N	HIS	E	437	4568	3798	4857	67	1165	-2278	N
ATOM	4818	CA	HIS	E	437	42.118	-33.014	-23.525	1.00	34.74	C	
ANISOU	4818	CA	HIS	E	437	4454	4042	4705	38	1285	-2284	C
ATOM	4819	CB	HIS	E	437	41.679	-32.053	-24.633	1.00	34.55	C	
ANISOU	4819	CB	HIS	E	437	4489	4283	4357	-146	1338	-2235	C
ATOM	4820	CG	HIS	E	437	42.748	-31.068	-25.013	1.00	35.10	C	
ANISOU	4820	CG	HIS	E	437	4468	4599	4270	-217	1471	-2204	C
ATOM	4821	ND1	HIS	E	437	43.851	-31.420	-25.764	1.00	37.41	N	
ANISOU	4821	ND1	HIS	E	437	4626	5075	4513	-200	1631	-2455	N
ATOM	4822	CE1	HIS	E	437	44.631	-30.366	-25.924	1.00	38.18	C	
ANISOU	4822	CE1	HIS	E	437	4658	5375	4475	-302	1736	-2358	C
ATOM	4823	NE2	HIS	E	437	44.081	-29.345	-25.292	1.00	35.48	N	
ANISOU	4823	NE2	HIS	E	437	4413	4960	4108	-374	1640	-2054	N
ATOM	4824	CD2	HIS	E	437	42.906	-29.759	-24.711	1.00	32.73	C	
ANISOU	4824	CD2	HIS	E	437	4181	4382	3872	-313	1477	-1962	C
ATOM	4825	C	HIS	E	437	42.749	-32.194	-22.375	1.00	33.02	C	
ANISOU	4825	C	HIS	E	437	4176	3799	4570	79	1259	-2066	C
ATOM	4826	O	HIS	E	437	43.972	-32.101	-22.278	1.00	33.79	O	
ANISOU	4826	O	HIS	E	437	4129	3988	4720	145	1337	-2148	O
ATOM	4827	N	PHE	E	438	41.926	-31.574	-21.532	1.00	31.16	N	
ANISOU	4827	N	PHE	E	438	4035	3462	4342	33	1153	-1812	N
ATOM	4828	CA	PHE	E	438	42.449	-30.736	-20.445	1.00	29.88	C	
ANISOU	4828	CA	PHE	E	438	3826	3289	4236	53	1124	-1624	C
ATOM	4829	CB	PHE	E	438	41.489	-29.603	-20.094	1.00	26.95	C	
ANISOU	4829	CB	PHE	E	438	3561	2923	3757	-63	1061	-1384	C
ATOM	4830	CG	PHE	E	438	41.464	-28.502	-21.121	1.00	27.09	C	
ANISOU	4830	CG	PHE	E	438	3604	3149	3541	-212	1134	-1338	C
ATOM	4831	CD1	PHE	E	438	42.603	-27.741	-21.370	1.00	25.13	C	
ANISOU	4831	CD1	PHE	E	438	3262	3064	3221	-267	1241	-1344	C
ATOM	4832	CE1	PHE	E	438	42.595	-26.732	-22.328	1.00	25.50	C	
ANISOU	4832	CE1	PHE	E	438	3355	3289	3044	-424	1312	-1272	C
ATOM	4833	CZ	PHE	E	438	41.445	-26.464	-23.056	1.00	25.46	C	
ANISOU	4833	CZ	PHE	E	438	3487	3307	2880	-504	1254	-1191	C
ATOM	4834	CE2	PHE	E	438	40.295	-27.218	-22.825	1.00	25.44	C	
ANISOU	4834	CE2	PHE	E	438	3552	3162	2953	-438	1138	-1209	C
ATOM	4835	CD2	PHE	E	438	40.308	-28.232	-21.858	1.00	26.06	C	
ANISOU	4835	CD2	PHE	E	438	3586	3055	3260	-305	1090	-1283	C
ATOM	4836	C	PHE	E	438	42.892	-31.546	-19.216	1.00	30.99	C	
ANISOU	4836	C	PHE	E	438	3923	3228	4624	221	1042	-1610	C
ATOM	4837	O	PHE	E	438	43.758	-31.116	-18.459	1.00	30.57	O	
ANISOU	4837	O	PHE	E	438	3776	3208	4631	274	1032	-1547	O
ATOM	4838	N	GLN	E	439	42.333	-32.746	-19.058	1.00	32.94	N	
ANISOU	4838	N	GLN	E	439	4237	3267	5012	299	977	-1674	N
ATOM	4839	CA	GLN	E	439	42.793	-33.691	-18.041	1.00	34.33	C	
ANISOU	4839	CA	GLN	E	439	4390	3229	5424	468	892	-1664	C
ATOM	4840	CB	GLN	E	439	41.809	-34.835	-17.889	1.00	34.98	C	
ANISOU	4840	CB	GLN	E	439	4604	3055	5634	485	819	-1673	C
ATOM	4841	CG	GLN	E	439	40.528	-34.421	-17.151	1.00	33.80	C	
ANISOU	4841	CG	GLN	E	439	4583	2832	5428	365	747	-1440	C
ATOM	4842	CD	GLN	E	439	39.593	-35.607	-16.908	1.00	35.82	C	
ANISOU	4842	CD	GLN	E	439	4957	2826	5828	357	684	-1441	C
ATOM	4843	OE1	GLN	E	439	39.605	-36.585	-17.663	1.00	36.28	O	

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Figure 18 (continued)

ANISOU	4843	OE1	GLN	E	439	5025	2780	5979	391	705	-1646	O
ATOM	4844	NE2	GLN	E	439	38.782	-35.521	-15.849	1.00	34.67		N
ANISOU	4844	NE2	GLN	E	439	4899	2575	5700	299	617	-1224	N
ATOM	4845	C	GLN	E	439	44.181	-34.224	-18.355	1.00	36.88		C
ANISOU	4845	C	GLN	E	439	4548	3601	5863	621	947	-1875	C
ATOM	4846	O	GLN	E	439	44.947	-34.537	-17.454	1.00	38.31		O
ANISOU	4846	O	GLN	E	439	4655	3695	6205	771	873	-1834	O
ATOM	4847	N	LYS	E	440	44.506	-34.307	-19.639	1.00	38.67		N
ANISOU	4847	N	LYS	E	440	4708	3989	5997	585	1074	-2109	N
ATOM	4848	CA	LYS	E	440	45.830	-34.701	-20.085	1.00	41.00		C
ANISOU	4848	CA	LYS	E	440	4811	4387	6378	713	1162	-2352	C
ATOM	4849	CB	LYS	E	440	45.760	-35.237	-21.517	1.00	43.24		C
ANISOU	4849	CB	LYS	E	440	5080	4772	6575	674	1289	-2647	C
ATOM	4850	CG	LYS	E	440	44.974	-36.564	-21.628	1.00	44.39		C
ANISOU	4850	CG	LYS	E	440	5348	4632	6884	748	1215	-2766	C
ATOM	4851	CD	LYS	E	440	45.302	-37.362	-22.891	1.00	47.55		C
ANISOU	4851	CD	LYS	E	440	5680	5105	7282	784	1335	-3147	C
ATOM	4852	CE	LYS	E	440	44.512	-38.715	-22.929	1.00	50.57		C
ANISOU	4852	CE	LYS	E	440	6192	5155	7866	848	1250	-3276	C
ATOM	4853	NZ	LYS	E	440	45.145	-39.840	-23.728	1.00	54.88		N
ANISOU	4853	NZ	LYS	E	440	6641	5641	8568	993	1329	-3685	N
ATOM	4854	C	LYS	E	440	46.860	-33.566	-19.953	1.00	41.06		C
ANISOU	4854	C	LYS	E	440	4658	4652	6290	666	1236	-2303	C
ATOM	4855	O	LYS	E	440	48.025	-33.808	-19.611	1.00	42.57		O
ANISOU	4855	O	LYS	E	440	4664	4881	6629	813	1240	-2407	O
ATOM	4856	N	ASP	E	441	46.435	-32.336	-20.226	1.00	39.79		N
ANISOU	4856	N	ASP	E	441	4560	4659	5898	463	1287	-2149	N
ATOM	4857	CA	ASP	E	441	47.317	-31.180	-20.142	1.00	40.18		C
ANISOU	4857	CA	ASP	E	441	4482	4932	5855	373	1365	-2091	C
ATOM	4858	CB	ASP	E	441	48.154	-31.013	-21.419	1.00	43.33		C
ANISOU	4858	CB	ASP	E	441	4737	5607	6118	295	1564	-2319	C
ATOM	4859	CG	ASP	E	441	49.325	-30.041	-21.231	1.00	46.39		C
ANISOU	4859	CG	ASP	E	441	4939	6211	6477	220	1653	-2302	C
ATOM	4860	OD1	ASP	E	441	49.448	-29.440	-20.140	1.00	48.49		O
ANISOU	4860	OD1	ASP	E	441	5197	6410	6818	225	1551	-2118	O
ATOM	4861	OD2	ASP	E	441	50.129	-29.879	-22.174	1.00	51.62		O
ANISOU	4861	OD2	ASP	E	441	5456	7122	7035	143	1834	-2486	O
ATOM	4862	C	ASP	E	441	46.537	-29.904	-19.828	1.00	37.74		C
ANISOU	4862	C	ASP	E	441	4310	4644	5386	194	1329	-1822	C
ATOM	4863	O	ASP	E	441	45.864	-29.332	-20.693	1.00	37.25		O
ANISOU	4863	O	ASP	E	441	4355	4675	5122	36	1387	-1775	O
ATOM	4864	N	ALA	E	442	46.636	-29.476	-18.570	1.00	35.71		N
ANISOU	4864	N	ALA	E	442	4047	4299	5223	231	1222	-1652	N
ATOM	4865	CA	ALA	E	442	45.931	-28.299	-18.098	1.00	33.38		C
ANISOU	4865	CA	ALA	E	442	3868	3993	4822	92	1177	-1423	C
ATOM	4866	CB	ALA	E	442	45.419	-28.529	-16.675	1.00	31.22		C
ANISOU	4866	CB	ALA	E	442	3665	3526	4672	185	1020	-1271	C
ATOM	4867	C	ALA	E	442	46.776	-27.016	-18.181	1.00	33.32		C
ANISOU	4867	C	ALA	E	442	3761	4170	4728	-46	1265	-1384	C
ATOM	4868	O	ALA	E	442	46.260	-25.945	-17.903	1.00	32.99		O
ANISOU	4868	O	ALA	E	442	3816	4112	4608	-168	1240	-1212	O
ATOM	4869	N	LYS	E	443	48.043	-27.134	-18.584	1.00	34.87		N
ANISOU	4869	N	LYS	E	443	3760	4535	4953	-31	1371	-1554	N
ATOM	4870	CA	LYS	E	443	49.006	-26.014	-18.612	1.00	35.36		C
ANISOU	4870	CA	LYS	E	443	3692	4779	4964	-175	1466	-1542	C
ATOM	4871	CB	LYS	E	443	50.372	-26.455	-19.164	1.00	38.05		C
ANISOU	4871	CB	LYS	E	443	3778	5324	5355	-134	1599	-1786	C
ATOM	4872	CG	LYS	E	443	51.263	-27.243	-18.219	1.00	40.17		C
ANISOU	4872	CG	LYS	E	443	3849	5559	5857	88	1500	-1903	C
ATOM	4873	CD	LYS	E	443	52.487	-27.764	-18.987	1.00	43.53		C
ANISOU	4873	CD	LYS	E	443	4010	6196	6334	144	1649	-2186	C
ATOM	4874	CE	LYS	E	443	53.103	-28.956	-18.285	1.00	48.78		C
ANISOU	4874	CE	LYS	E	443	4515	6765	7255	440	1522	-2328	C
ATOM	4875	NZ	LYS	E	443	54.154	-29.631	-19.120	1.00	53.55		N
ANISOU	4875	NZ	LYS	E	443	4860	7551	7935	536	1667	-2646	N
ATOM	4876	C	LYS	E	443	48.554	-24.806	-19.413	1.00	33.77		C
ANISOU	4876	C	LYS	E	443	3618	4659	4554	-414	1561	-1408	C
ATOM	4877	O	LYS	E	443	48.684	-23.694	-18.948	1.00	33.32		O
ANISOU	4877	O	LYS	E	443	3574	4600	4484	-537	1551	-1276	O
ATOM	4878	N	VAL	E	444	48.057	-25.015	-20.627	1.00	33.39		N
ANISOU	4878	N	VAL	E	444	3664	4680	4342	-482	1645	-1446	N

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Figure 18 (continued)

ATOM	4879	CA	VAL	E	444	47.578	-23.901	-21.443	1.00	32.51	C	
ANISOU	4879	CA	VAL	E	444	3697	4640	4016	-699	1710	-1287	C
ATOM	4880	CB	VAL	E	444	47.325	-24.320	-22.913	1.00	33.98	C	
ANISOU	4880	CB	VAL	E	444	3940	4981	3988	-767	1820	-1385	C
ATOM	4881	CG1	VAL	E	444	46.849	-23.117	-23.727	1.00	33.93	C	
ANISOU	4881	CG1	VAL	E	444	4100	5048	3745	-989	1863	-1177	C
ATOM	4882	CG2	VAL	E	444	48.595	-24.935	-23.530	1.00	35.29	C	
ANISOU	4882	CG2	VAL	E	444	3886	5374	4147	-757	1997	-1653	C
ATOM	4883	C	VAL	E	444	46.325	-23.248	-20.824	1.00	30.69	C	
ANISOU	4883	C	VAL	E	444	3666	4204	3792	-710	1557	-1054	C
ATOM	4884	O	VAL	E	444	46.204	-22.012	-20.791	1.00	30.76	O	
ANISOU	4884	O	VAL	E	444	3753	4195	3741	-856	1561	-883	O
ATOM	4885	N	LEU	E	445	45.419	-24.090	-20.332	1.00	28.79	N	
ANISOU	4885	N	LEU	E	445	3497	3803	3639	-557	1429	-1058	N
ATOM	4886	CA	LEU	E	445	44.175	-23.667	-19.699	1.00	27.40	C	
ANISOU	4886	CA	LEU	E	445	3476	3448	3487	-543	1291	-880	C
ATOM	4887	CB	LEU	E	445	43.334	-24.905	-19.324	1.00	26.06	C	
ANISOU	4887	CB	LEU	E	445	3348	3141	3410	-390	1191	-938	C
ATOM	4888	CG	LEU	E	445	42.005	-24.714	-18.603	1.00	24.67	C	
ANISOU	4888	CG	LEU	E	445	3297	2800	3277	-363	1061	-794	C
ATOM	4889	CD1	LEU	E	445	41.045	-23.943	-19.450	1.00	23.86	C	
ANISOU	4889	CD1	LEU	E	445	3319	2724	3024	-467	1044	-683	C
ATOM	4890	CD2	LEU	E	445	41.388	-26.048	-18.167	1.00	23.79	C	
ANISOU	4890	CD2	LEU	E	445	3204	2560	3276	-238	987	-863	C
ATOM	4891	C	LEU	E	445	44.416	-22.841	-18.438	1.00	26.46	C	
ANISOU	4891	C	LEU	E	445	3330	3240	3486	-548	1230	-777	C
ATOM	4892	O	LEU	E	445	43.801	-21.786	-18.261	1.00	26.04	O	
ANISOU	4892	O	LEU	E	445	3381	3112	3400	-630	1188	-624	O
ATOM	4893	N	PHE	E	446	45.272	-23.353	-17.551	1.00	26.46	N	
ANISOU	4893	N	PHE	E	446	3188	3241	3625	-447	1211	-870	N
ATOM	4894	CA	PHE	E	446	45.576	-22.697	-16.274	1.00	25.67	C	
ANISOU	4894	CA	PHE	E	446	3046	3084	3625	-444	1141	-806	C
ATOM	4895	CB	PHE	E	446	46.347	-23.663	-15.363	1.00	26.39	C	
ANISOU	4895	CB	PHE	E	446	2995	3178	3856	-282	1079	-912	C
ATOM	4896	CG	PHE	E	446	45.490	-24.679	-14.652	1.00	24.94	C	
ANISOU	4896	CG	PHE	E	446	2898	2839	3740	-131	959	-875	C
ATOM	4897	CD1	PHE	E	446	44.152	-24.830	-14.944	1.00	24.46	C	
ANISOU	4897	CD1	PHE	E	446	2999	2671	3625	-146	932	-796	C
ATOM	4898	CE1	PHE	E	446	43.370	-25.769	-14.271	1.00	25.96	C	
ANISOU	4898	CE1	PHE	E	446	3262	2721	3881	-40	838	-760	C
ATOM	4899	CZ	PHE	E	446	43.927	-26.577	-13.306	1.00	26.29	C	
ANISOU	4899	CZ	PHE	E	446	3242	2714	4034	92	761	-778	C
ATOM	4900	CE2	PHE	E	446	45.274	-26.429	-12.996	1.00	28.95	C	
ANISOU	4900	CE2	PHE	E	446	3418	3158	4423	134	764	-850	C
ATOM	4901	CD2	PHE	E	446	46.045	-25.494	-13.676	1.00	27.06	C	
ANISOU	4901	CD2	PHE	E	446	3080	3073	4128	20	868	-912	C
ATOM	4902	C	PHE	E	446	46.389	-21.403	-16.496	1.00	26.52	C	
ANISOU	4902	C	PHE	E	446	3097	3289	3693	-623	1230	-777	C
ATOM	4903	O	PHE	E	446	46.081	-20.387	-15.902	1.00	26.04	O	
ANISOU	4903	O	PHE	E	446	3101	3142	3650	-697	1185	-672	O
ATOM	4904	N	GLN	E	447	47.407	-21.441	-17.364	1.00	28.42	N	
ANISOU	4904	N	GLN	E	447	3213	3703	3882	-703	1367	-882	N
ATOM	4905	CA	GLN	E	447	48.255	-20.272	-17.631	1.00	30.21	C	
ANISOU	4905	CA	GLN	E	447	3374	4031	4073	-906	1474	-858	C
ATOM	4906	CB	GLN	E	447	49.558	-20.665	-18.370	1.00	32.70	C	
ANISOU	4906	CB	GLN	E	447	3479	4581	4365	-956	1632	-1034	C
ATOM	4907	CG	GLN	E	447	50.469	-21.664	-17.619	1.00	33.25	C	
ANISOU	4907	CG	GLN	E	447	3317	4717	4599	-768	1585	-1223	C
ATOM	4908	CD	GLN	E	447	51.134	-21.082	-16.361	1.00	34.07	C	
ANISOU	4908	CD	GLN	E	447	3297	4813	4836	-777	1499	-1223	C
ATOM	4909	OE1	GLN	E	447	50.681	-20.084	-15.801	1.00	33.58	O	
ANISOU	4909	OE1	GLN	E	447	3351	4637	4770	-881	1442	-1088	O
ATOM	4910	NE2	GLN	E	447	52.215	-21.716	-15.914	1.00	33.89	N	
ANISOU	4910	NE2	GLN	E	447	3028	4913	4937	-660	1480	-1391	N
ATOM	4911	C	GLN	E	447	47.535	-19.110	-18.348	1.00	30.32	C	
ANISOU	4911	C	GLN	E	447	3585	3978	3959	-1087	1508	-671	C
ATOM	4912	O	GLN	E	447	47.924	-17.962	-18.215	1.00	31.49	O	
ANISOU	4912	O	GLN	E	447	3740	4105	4121	-1252	1546	-595	O
ATOM	4913	N	ASN	E	448	46.468	-19.409	-19.073	1.00	30.31	N	
ANISOU	4913	N	ASN	E	448	3744	3928	3845	-1051	1477	-595	N
ATOM	4914	CA	ASN	E	448	45.761	-18.409	-19.873	1.00	30.88	C	

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Figure 18 (continued)

ANISOU	4914	CA	ASN	E	448	4004	3947	3783	-1195	1485	-407	C
ATOM	4915	CB	ASN	E	448	45.584	-18.920	-21.309	1.00	32.53		C
ANISOU	4915	CB	ASN	E	448	4268	4311	3782	-1240	1569	-424	C
ATOM	4916	CG	ASN	E	448	46.858	-18.826	-22.104	1.00	35.40		C
ANISOU	4916	CG	ASN	E	448	4506	4905	4040	-1401	1764	-514	C
ATOM	4917	OD1	ASN	E	448	47.280	-17.741	-22.458	1.00	39.32		O
ANISOU	4917	OD1	ASN	E	448	5044	5427	4468	-1605	1846	-389	O
ATOM	4918	ND2	ASN	E	448	47.482	-19.960	-22.378	1.00	37.31		N
ANISOU	4918	ND2	ASN	E	448	4588	5308	4280	-1312	1845	-737	N
ATOM	4919	C	ASN	E	448	44.419	-17.982	-19.291	1.00	29.13		C
ANISOU	4919	C	ASN	E	448	3941	3507	3618	-1115	1326	-267	C
ATOM	4920	O	ASN	E	448	43.766	-17.081	-19.821	1.00	29.93		O
ANISOU	4920	O	ASN	E	448	4198	3528	3646	-1201	1297	-98	O
ATOM	4921	N	TRP	E	449	44.039	-18.593	-18.176	1.00	27.59		N
ANISOU	4921	N	TRP	E	449	3703	3222	3558	-952	1225	-333	N
ATOM	4922	CA	TRP	E	449	42.729	-18.370	-17.542	1.00	26.76		C
ANISOU	4922	CA	TRP	E	449	3713	2942	3513	-861	1090	-243	C
ATOM	4923	CB	TRP	E	449	42.475	-19.424	-16.454	1.00	24.28		C
ANISOU	4923	CB	TRP	E	449	3331	2590	3304	-695	1016	-340	C
ATOM	4924	CG	TRP	E	449	41.137	-19.316	-15.787	1.00	23.02		C
ANISOU	4924	CG	TRP	E	449	3262	2290	3195	-614	905	-273	C
ATOM	4925	CD1	TRP	E	449	40.863	-18.715	-14.596	1.00	21.45		C
ANISOU	4925	CD1	TRP	E	449	3066	1994	3092	-591	847	-256	C
ATOM	4926	NE1	TRP	E	449	39.515	-18.822	-14.298	1.00	20.39		N
ANISOU	4926	NE1	TRP	E	449	3000	1770	2976	-516	770	-215	N
ATOM	4927	CE2	TRP	E	449	38.885	-19.504	-15.306	1.00	21.49		C
ANISOU	4927	CE2	TRP	E	449	3183	1943	3039	-494	763	-200	C
ATOM	4928	CD2	TRP	E	449	39.876	-19.846	-16.270	1.00	24.86		C
ANISOU	4928	CD2	TRP	E	449	3576	2486	3383	-553	846	-240	C
ATOM	4929	CE3	TRP	E	449	39.491	-20.568	-17.422	1.00	23.76		C
ANISOU	4929	CE3	TRP	E	449	3472	2418	3138	-550	858	-261	C
ATOM	4930	CZ3	TRP	E	449	38.128	-20.936	-17.561	1.00	23.43		C
ANISOU	4930	CZ3	TRP	E	449	3491	2323	3088	-492	771	-235	C
ATOM	4931	CH2	TRP	E	449	37.172	-20.568	-16.574	1.00	21.37		C
ANISOU	4931	CH2	TRP	E	449	3244	1947	2927	-437	692	-188	C
ATOM	4932	CZ2	TRP	E	449	37.535	-19.864	-15.450	1.00	20.61		C
ANISOU	4932	CZ2	TRP	E	449	3121	1786	2923	-435	694	-175	C
ATOM	4933	C	TRP	E	449	42.490	-16.955	-16.983	1.00	27.51		C
ANISOU	4933	C	TRP	E	449	3882	2888	3683	-936	1047	-131	C
ATOM	4934	O	TRP	E	449	41.353	-16.459	-16.959	1.00	28.76		O
ANISOU	4934	O	TRP	E	449	4157	2914	3855	-897	959	-29	O
ATOM	4935	N	GLY	E	450	43.527	-16.296	-16.504	1.00	28.21		N
ANISOU	4935	N	GLY	E	450	3890	2989	3838	-1037	1102	-166	N
ATOM	4936	CA	GLY	E	450	43.293	-14.993	-15.886	1.00	27.79		C
ANISOU	4936	CA	GLY	E	450	3907	2766	3884	-1103	1057	-93	C
ATOM	4937	C	GLY	E	450	43.612	-15.062	-14.403	1.00	26.81		C
ANISOU	4937	C	GLY	E	450	3678	2623	3885	-1038	1007	-216	C
ATOM	4938	O	GLY	E	450	43.219	-16.005	-13.720	1.00	25.75		O
ANISOU	4938	O	GLY	E	450	3501	2518	3763	-889	946	-282	O
ATOM	4939	N	ILE	E	451	44.331	-14.049	-13.925	1.00	27.46		N
ANISOU	4939	N	ILE	E	451	3725	2659	4049	-1166	1031	-243	N
ATOM	4940	CA	ILE	E	451	44.805	-13.944	-12.563	1.00	26.27		C
ANISOU	4940	CA	ILE	E	451	3467	2521	3994	-1141	984	-372	C
ATOM	4941	CB	ILE	E	451	46.380	-13.916	-12.516	1.00	27.56		C
ANISOU	4941	CB	ILE	E	451	3449	2845	4177	-1267	1061	-479	C
ATOM	4942	CG1	ILE	E	451	46.919	-14.436	-11.178	1.00	27.57		C
ANISOU	4942	CG1	ILE	E	451	3300	2949	4228	-1173	981	-627	C
ATOM	4943	CD1	ILE	E	451	47.068	-15.951	-11.141	1.00	22.34		C
ANISOU	4943	CD1	ILE	E	451	2547	2426	3515	-998	952	-669	C
ATOM	4944	CG2	ILE	E	451	46.958	-12.547	-12.840	1.00	28.46		C
ANISOU	4944	CG2	ILE	E	451	3590	2876	4349	-1500	1134	-445	C
ATOM	4945	C	ILE	E	451	44.170	-12.690	-11.957	1.00	26.81		C
ANISOU	4945	C	ILE	E	451	3641	2382	4162	-1182	931	-349	C
ATOM	4946	O	ILE	E	451	43.942	-11.712	-12.669	1.00	27.27		O
ANISOU	4946	O	ILE	E	451	3818	2296	4248	-1289	957	-238	O
ATOM	4947	N	GLU	E	452	43.846	-12.740	-10.657	1.00	26.34		N
ANISOU	4947	N	GLU	E	452	3548	2306	4155	-1090	853	-453	N
ATOM	4948	CA	GLU	E	452	43.223	-11.616	-9.949	1.00	27.25		C
ANISOU	4948	CA	GLU	E	452	3743	2237	4375	-1105	806	-486	C
ATOM	4949	CB	GLU	E	452	41.711	-11.797	-9.805	1.00	26.07		C
ANISOU	4949	CB	GLU	E	452	3691	1990	4224	-947	745	-441	C

Figure 18 (continued)

ATOM	4950	CG	GLU	E	452	41.266	-12.939	-8.853	1.00	25.31	C	
ANISOU	4950	CG	GLU	E	452	3530	2030	4058	-801	701	-515	C
ATOM	4951	CD	GLU	E	452	39.756	-13.124	-8.803	1.00	24.53	C	
ANISOU	4951	CD	GLU	E	452	3504	1856	3961	-674	661	-476	C
ATOM	4952	OE1	GLU	E	452	39.068	-12.217	-9.314	1.00	25.81	O	
ANISOU	4952	OE1	GLU	E	452	3753	1850	4202	-676	647	-420	O
ATOM	4953	OE2	GLU	E	452	39.251	-14.177	-8.283	1.00	23.51	O	
ANISOU	4953	OE2	GLU	E	452	3341	1829	3761	-574	642	-494	O
ATOM	4954	C	GLU	E	452	43.848	-11.432	-8.580	1.00	28.43	C	
ANISOU	4954	C	GLU	E	452	3783	2458	4563	-1127	771	-662	C
ATOM	4955	O	GLU	E	452	44.286	-12.399	-7.949	1.00	27.98	O	
ANISOU	4955	O	GLU	E	452	3614	2584	4434	-1053	740	-731	O
ATOM	4956	N	HIS	E	453	43.923	-10.180	-8.146	1.00	30.69	N	
ANISOU	4956	N	HIS	E	453	4104	2592	4964	-1232	766	-734	N
ATOM	4957	CA	HIS	E	453	44.200	-9.865	-6.747	1.00	32.45	C	
ANISOU	4957	CA	HIS	E	453	4251	2864	5216	-1241	715	-926	C
ATOM	4958	CB	HIS	E	453	44.444	-8.372	-6.528	1.00	34.20	C	
ANISOU	4958	CB	HIS	E	453	4517	2885	5593	-1398	727	-1017	C
ATOM	4959	CG	HIS	E	453	45.250	-8.092	-5.296	1.00	39.68	C	
ANISOU	4959	CG	HIS	E	453	5086	3695	6296	-1476	688	-1238	C
ATOM	4960	ND1	HIS	E	453	44.724	-7.482	-4.169	1.00	43.34	N	
ANISOU	4960	ND1	HIS	E	453	5574	4092	6801	-1445	640	-1415	N
ATOM	4961	CE1	HIS	E	453	45.664	-7.391	-3.246	1.00	44.55	C	
ANISOU	4961	CE1	HIS	E	453	5596	4407	6924	-1535	601	-1598	C
ATOM	4962	NE2	HIS	E	453	46.769	-7.945	-3.718	1.00	42.51	N	
ANISOU	4962	NE2	HIS	E	453	5213	4316	6621	-1609	617	-1544	N
ATOM	4963	CD2	HIS	E	453	46.540	-8.383	-4.997	1.00	40.32	C	
ANISOU	4963	CD2	HIS	E	453	5000	3982	6338	-1576	682	-1329	C
ATOM	4964	C	HIS	E	453	43.055	-10.310	-5.860	1.00	31.39	C	
ANISOU	4964	C	HIS	E	453	4153	2749	5027	-1069	658	-973	C
ATOM	4965	O	HIS	E	453	41.890	-10.357	-6.286	1.00	30.46	O	
ANISOU	4965	O	HIS	E	453	4134	2517	4921	-967	656	-882	O
ATOM	4966	N	ILE	E	454	43.380	-10.638	-4.618	1.00	31.87	N	
ANISOU	4966	N	ILE	E	454	4122	2971	5015	-1043	609	-1116	N
ATOM	4967	CA	ILE	E	454	42.346	-11.093	-3.700	1.00	31.42	C	
ANISOU	4967	CA	ILE	E	454	4094	2967	4875	-909	573	-1161	C
ATOM	4968	CB	ILE	E	454	42.380	-12.627	-3.506	1.00	30.33	C	
ANISOU	4968	CB	ILE	E	454	3911	3030	4585	-798	542	-1074	C
ATOM	4969	CG1	ILE	E	454	43.610	-13.057	-2.681	1.00	31.20	C	
ANISOU	4969	CG1	ILE	E	454	3893	3350	4610	-830	478	-1157	C
ATOM	4970	CD1	ILE	E	454	43.581	-14.534	-2.282	1.00	29.25	C	
ANISOU	4970	CD1	ILE	E	454	3622	3268	4225	-703	423	-1067	C
ATOM	4971	CG2	ILE	E	454	42.334	-13.309	-4.878	1.00	29.40	C	
ANISOU	4971	CG2	ILE	E	454	3820	2871	4478	-764	580	-902	C
ATOM	4972	C	ILE	E	454	42.322	-10.396	-2.359	1.00	32.96	C	
ANISOU	4972	C	ILE	E	454	4262	3196	5064	-942	541	-1372	C
ATOM	4973	O	ILE	E	454	43.289	-9.765	-1.929	1.00	34.56	O	
ANISOU	4973	O	ILE	E	454	4398	3432	5303	-1065	521	-1505	O
ATOM	4974	N	ASP	E	455	41.171	-10.489	-1.720	1.00	33.18	N	
ANISOU	4974	N	ASP	E	455	4337	3225	5046	-841	545	-1419	N
ATOM	4975	CA	ASP	E	455	41.040	-10.071	-0.349	1.00	34.92	C	
ANISOU	4975	CA	ASP	E	455	4527	3541	5200	-856	525	-1632	C
ATOM	4976	CB	ASP	E	455	39.607	-9.614	-0.072	1.00	35.97	C	
ANISOU	4976	CB	ASP	E	455	4721	3562	5384	-767	570	-1709	C
ATOM	4977	CG	ASP	E	455	39.150	-8.513	-1.016	1.00	38.40	C	
ANISOU	4977	CG	ASP	E	455	5103	3558	5931	-768	596	-1692	C
ATOM	4978	OD1	ASP	E	455	39.930	-7.575	-1.295	1.00	43.88	O	
ANISOU	4978	OD1	ASP	E	455	5809	4103	6759	-885	588	-1746	O
ATOM	4979	OD2	ASP	E	455	38.012	-8.581	-1.493	1.00	39.86	O	
ANISOU	4979	OD2	ASP	E	455	5332	3641	6173	-656	616	-1617	O
ATOM	4980	C	ASP	E	455	41.428	-11.210	0.583	1.00	34.38	C	
ANISOU	4980	C	ASP	E	455	4395	3761	4905	-821	470	-1620	C
ATOM	4981	O	ASP	E	455	41.239	-12.372	0.267	1.00	33.22	O	
ANISOU	4981	O	ASP	E	455	4259	3693	4672	-739	463	-1447	O
ATOM	4982	N	ASN	E	456	42.001	-10.857	1.727	1.00	36.29	N	
ANISOU	4982	N	ASN	E	456	4579	4155	5054	-888	421	-1805	N
ATOM	4983	CA	ASN	E	456	42.242	-11.804	2.805	1.00	36.41	C	
ANISOU	4983	CA	ASN	E	456	4556	4451	4827	-852	350	-1799	C
ATOM	4984	CB	ASN	E	456	43.157	-11.172	3.870	1.00	38.96	C	
ANISOU	4984	CB	ASN	E	456	4797	4935	5071	-959	274	-2023	C
ATOM	4985	CG	ASN	E	456	44.549	-10.827	3.334	1.00	40.45	C	

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Figure 18 (continued)

ANISOU	4985	CG	ASN	E	456	4881	5107	5382	-1060	220	-2046	C
ATOM	4986	OD1	ASN	E	456	45.178	-11.638	2.635	1.00	41.16		O
ANISOU	4986	OD1	ASN	E	456	4920	5233	5486	-1020	191	-1874	O
ATOM	4987	ND2	ASN	E	456	45.040	-9.624	3.669	1.00	39.97		N
ANISOU	4987	ND2	ASN	E	456	4777	4994	5418	-1199	215	-2279	N
ATOM	4988	C	ASN	E	456	40.922	-12.229	3.444	1.00	35.91		C
ANISOU	4988	C	ASN	E	456	4561	4451	4631	-773	404	-1790	C
ATOM	4989	O	ASN	E	456	40.246	-11.425	4.099	1.00	37.52		O
ANISOU	4989	O	ASN	E	456	4782	4643	4833	-794	455	-1984	O
ATOM	4990	N	VAL	E	457	40.543	-13.483	3.230	1.00	33.98		N
ANISOU	4990	N	VAL	E	457	4351	4269	4291	-689	402	-1578	N
ATOM	4991	CA	VAL	E	457	39.365	-14.080	3.867	1.00	33.82		C
ANISOU	4991	CA	VAL	E	457	4385	4343	4122	-641	458	-1541	C
ATOM	4992	CB	VAL	E	457	38.259	-14.476	2.836	1.00	32.61		C
ANISOU	4992	CB	VAL	E	457	4279	4018	4093	-568	540	-1399	C
ATOM	4993	CG1	VAL	E	457	37.029	-15.057	3.553	1.00	32.25		C
ANISOU	4993	CG1	VAL	E	457	4264	4088	3900	-547	614	-1383	C
ATOM	4994	CG2	VAL	E	457	37.839	-13.264	1.956	1.00	34.28		C
ANISOU	4994	CG2	VAL	E	457	4492	3983	4548	-564	592	-1495	C
ATOM	4995	C	VAL	E	457	39.833	-15.326	4.626	1.00	33.51		C
ANISOU	4995	C	VAL	E	457	4356	4530	3847	-623	373	-1398	C
ATOM	4996	O	VAL	E	457	40.368	-16.254	4.027	1.00	32.47		O
ANISOU	4996	O	VAL	E	457	4224	4372	3741	-570	314	-1210	O
ATOM	4997	N	MSE	E	458	39.663	-15.333	5.946	1.00	34.54		N
ANISOU	4997	N	MSE	E	458	4498	4881	3746	-664	361	-1491	N
ATOM	4998	CA	MSE	E	458	40.077	-16.485	6.758	1.00	34.73		C
ANISOU	4998	CA	MSE	E	458	4554	5121	3522	-649	262	-1328	C
ATOM	4999	CB	MSE	E	458	39.930	-16.198	8.270	1.00	36.83		C
ANISOU	4999	CB	MSE	E	458	4834	5661	3500	-725	252	-1475	C
ATOM	5000	CG	MSE	E	458	40.556	-17.267	9.149	1.00	36.65		C
ANISOU	5000	CG	MSE	E	458	4852	5870	3203	-714	109	-1293	C
ATOM	5001	SE	MSE	E	458	40.273	-16.954	11.015	0.90	41.76		SE
ANISOU	5001	SE	MSE	E	458	5537	6903	3425	-827	106	-1458	SE
ATOM	5002	CE	MSE	E	458	41.315	-18.332	11.797	1.00	45.02		C
ANISOU	5002	CE	MSE	E	458	6009	7547	3550	-781	-137	-1152	C
ATOM	5003	C	MSE	E	458	39.307	-17.753	6.367	1.00	33.55		C
ANISOU	5003	C	MSE	E	458	4487	4909	3352	-591	305	-1072	C
ATOM	5004	O	MSE	E	458	38.099	-17.701	6.110	1.00	32.64		O
ANISOU	5004	O	MSE	E	458	4404	4712	3286	-596	437	-1080	O
ATOM	5005	N	GLY	E	459	40.010	-18.883	6.316	1.00	33.52		N
ANISOU	5005	N	GLY	E	459	4507	4934	3293	-532	189	-859	N
ATOM	5006	CA	GLY	E	459	39.389	-20.156	5.923	1.00	33.09		C
ANISOU	5006	CA	GLY	E	459	4540	4788	3245	-484	216	-617	C
ATOM	5007	C	GLY	E	459	39.465	-20.494	4.445	1.00	31.02		C
ANISOU	5007	C	GLY	E	459	4259	4286	3242	-413	236	-537	C
ATOM	5008	O	GLY	E	459	38.878	-21.472	4.003	1.00	29.76		O
ANISOU	5008	O	GLY	E	459	4166	4024	3119	-382	269	-374	O
ATOM	5009	N	MSE	E	460	40.234	-19.707	3.697	1.00	31.09		N
ANISOU	5009	N	MSE	E	460	4178	4216	3419	-401	216	-654	N
ATOM	5010	CA	MSE	E	460	40.276	-19.773	2.235	1.00	31.27		C
ANISOU	5010	CA	MSE	E	460	4178	4037	3665	-358	258	-615	C
ATOM	5011	CB	MSE	E	460	39.161	-18.884	1.732	1.00	30.55		C
ANISOU	5011	CB	MSE	E	460	4104	3830	3674	-400	385	-715	C
ATOM	5012	CG	MSE	E	460	38.666	-19.120	0.368	1.00	31.73		C
ANISOU	5012	CG	MSE	E	460	4270	3798	3987	-364	442	-641	C
ATOM	5013	SE	MSE	E	460	37.264	-17.775	0.139	0.90	36.29		SE
ANISOU	5013	SE	MSE	E	460	4850	4272	4665	-398	558	-792	SE
ATOM	5014	CE	MSE	E	460	35.900	-18.531	1.319	1.00	33.17		C
ANISOU	5014	CE	MSE	E	460	4495	4021	4089	-418	629	-764	C
ATOM	5015	C	MSE	E	460	41.595	-19.181	1.740	1.00	29.41		C
ANISOU	5015	C	MSE	E	460	3836	3797	3541	-360	197	-704	C
ATOM	5016	O	MSE	E	460	42.123	-18.243	2.345	1.00	30.18		O
ANISOU	5016	O	MSE	E	460	3874	3990	3604	-424	166	-859	O
ATOM	5017	N	VAL	E	461	42.129	-19.739	0.654	1.00	27.19		N
ANISOU	5017	N	VAL	E	461	3522	3418	3392	-302	187	-625	N
ATOM	5018	CA	VAL	E	461	43.328	-19.186	0.002	1.00	26.63		C
ANISOU	5018	CA	VAL	E	461	3332	3346	3439	-324	164	-711	C
ATOM	5019	CB	VAL	E	461	44.678	-19.981	0.317	1.00	27.57		C
ANISOU	5019	CB	VAL	E	461	3343	3596	3535	-245	26	-678	C
ATOM	5020	CG1	VAL	E	461	45.146	-19.726	1.712	1.00	30.38		C
ANISOU	5020	CG1	VAL	E	461	3661	4147	3734	-267	-90	-741	C

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Figure 18 (continued)

ATOM	5021	CG2	VAL	E	461	44.544	-21.476	0.054	1.00	27.15	C	
ANISOU	5021	CG2	VAL	E	461	3343	3486	3488	-113	-15	-505	C
ATOM	5022	C	VAL	E	461	43.155	-19.117	-1.507	1.00	24.12	C	
ANISOU	5022	C	VAL	E	461	3020	2866	3278	-326	258	-681	C
ATOM	5023	O	VAL	E	461	42.324	-19.841	-2.080	1.00	22.67	O	
ANISOU	5023	O	VAL	E	461	2916	2584	3112	-275	303	-577	O
ATOM	5024	N	GLY	E	462	43.947	-18.249	-2.140	1.00	23.16	N	
ANISOU	5024	N	GLY	E	462	2816	2728	3258	-401	288	-772	N
ATOM	5025	CA	GLY	E	462	44.112	-18.282	-3.598	1.00	21.82	C	
ANISOU	5025	CA	GLY	E	462	2635	2456	3200	-412	367	-733	C
ATOM	5026	C	GLY	E	462	44.981	-19.456	-4.067	1.00	21.42	C	
ANISOU	5026	C	GLY	E	462	2500	2467	3173	-317	329	-687	C
ATOM	5027	O	GLY	E	462	45.717	-20.046	-3.299	1.00	20.90	O	
ANISOU	5027	O	GLY	E	462	2354	2517	3068	-248	226	-695	O
ATOM	5028	N	VAL	E	463	44.888	-19.781	-5.350	1.00	21.09	N	
ANISOU	5028	N	VAL	E	463	2471	2348	3194	-308	408	-648	N
ATOM	5029	CA	VAL	E	463	45.725	-20.807	-5.947	1.00	20.88	C	
ANISOU	5029	CA	VAL	E	463	2351	2370	3213	-218	396	-648	C
ATOM	5030	CB	VAL	E	463	44.939	-22.151	-6.066	1.00	21.07	C	
ANISOU	5030	CB	VAL	E	463	2475	2306	3226	-91	372	-548	C
ATOM	5031	CG1	VAL	E	463	43.726	-22.012	-7.015	1.00	18.51	C	
ANISOU	5031	CG1	VAL	E	463	2276	1857	2899	-139	466	-501	C
ATOM	5032	CG2	VAL	E	463	45.863	-23.303	-6.490	1.00	19.87	C	
ANISOU	5032	CG2	VAL	E	463	2221	2184	3145	35	338	-572	C
ATOM	5033	C	VAL	E	463	46.254	-20.270	-7.294	1.00	20.93	C	
ANISOU	5033	C	VAL	E	463	2297	2378	3279	-312	513	-699	C
ATOM	5034	O	VAL	E	463	45.503	-19.667	-8.067	1.00	20.04	O	
ANISOU	5034	O	VAL	E	463	2287	2170	3159	-394	595	-659	O
ATOM	5035	N	LEU	E	464	47.555	-20.432	-7.522	1.00	21.97	N	
ANISOU	5035	N	LEU	E	464	2253	2633	3461	-308	516	-787	N
ATOM	5036	CA	LEU	E	464	48.217	-20.037	-8.768	1.00	22.38	C	
ANISOU	5036	CA	LEU	E	464	2222	2733	3549	-412	644	-844	C
ATOM	5037	CB	LEU	E	464	49.692	-19.686	-8.481	1.00	23.67	C	
ANISOU	5037	CB	LEU	E	464	2157	3066	3770	-468	634	-973	C
ATOM	5038	CG	LEU	E	464	50.020	-18.579	-7.451	1.00	24.00	C	
ANISOU	5038	CG	LEU	E	464	2156	3149	3816	-587	574	-1026	C
ATOM	5039	CD1	LEU	E	464	51.527	-18.280	-7.395	1.00	23.87	C	
ANISOU	5039	CD1	LEU	E	464	1881	3320	3868	-665	578	-1172	C
ATOM	5040	CD2	LEU	E	464	49.204	-17.298	-7.711	1.00	19.83	C	
ANISOU	5040	CD2	LEU	E	464	1791	2471	3272	-757	652	-975	C
ATOM	5041	C	LEU	E	464	48.096	-21.191	-9.796	1.00	23.25	C	
ANISOU	5041	C	LEU	E	464	2340	2827	3666	-306	696	-838	C
ATOM	5042	O	LEU	E	464	47.759	-22.317	-9.404	1.00	23.03	O	
ANISOU	5042	O	LEU	E	464	2348	2749	3651	-145	614	-807	O
ATOM	5043	N	PRO	E	465	48.325	-20.915	-11.110	1.00	24.19	N	
ANISOU	5043	N	PRO	E	465	2442	2983	3768	-407	835	-868	N
ATOM	5044	CA	PRO	E	465	48.340	-21.987	-12.127	1.00	25.02	C	
ANISOU	5044	CA	PRO	E	465	2532	3105	3868	-317	897	-912	C
ATOM	5045	CB	PRO	E	465	48.816	-21.267	-13.393	1.00	25.21	C	
ANISOU	5045	CB	PRO	E	465	2515	3230	3834	-493	1061	-949	C
ATOM	5046	CG	PRO	E	465	48.349	-19.856	-13.215	1.00	25.13	C	
ANISOU	5046	CG	PRO	E	465	2621	3143	3785	-666	1072	-842	C
ATOM	5047	CD	PRO	E	465	48.511	-19.577	-11.724	1.00	25.08	C	
ANISOU	5047	CD	PRO	E	465	2570	3111	3849	-623	944	-853	C
ATOM	5048	C	PRO	E	465	49.235	-23.225	-11.820	1.00	27.35	C	
ANISOU	5048	C	PRO	E	465	2659	3471	4261	-129	835	-1023	C
ATOM	5049	O	PRO	E	465	48.830	-24.361	-12.130	1.00	26.54	O	
ANISOU	5049	O	PRO	E	465	2609	3290	4185	9	814	-1032	O
ATOM	5050	N	ASP	E	466	50.418	-23.018	-11.230	1.00	29.43	N	
ANISOU	5050	N	ASP	E	466	2720	3869	4592	-119	795	-1113	N
ATOM	5051	CA	ASP	E	466	51.243	-24.148	-10.769	1.00	32.32	C	
ANISOU	5051	CA	ASP	E	466	2921	4288	5071	93	692	-1202	C
ATOM	5052	CB	ASP	E	466	52.739	-23.769	-10.621	1.00	34.50	C	
ANISOU	5052	CB	ASP	E	466	2906	4779	5422	65	702	-1353	C
ATOM	5053	CG	ASP	E	466	53.011	-22.725	-9.515	1.00	36.86	C	
ANISOU	5053	CG	ASP	E	466	3166	5140	5698	-48	612	-1323	C
ATOM	5054	OD1	ASP	E	466	52.104	-22.374	-8.726	1.00	36.45	O	
ANISOU	5054	OD1	ASP	E	466	3303	4971	5575	-73	529	-1195	O
ATOM	5055	OD2	ASP	E	466	54.164	-22.236	-9.438	1.00	40.79	O	
ANISOU	5055	OD2	ASP	E	466	3426	5820	6251	-123	630	-1452	O
ATOM	5056	C	ASP	E	466	50.683	-24.859	-9.498	1.00	32.48	C	

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Figure 18 (continued)

ANISOU	5056	C	ASP	E	466	3053	4182	5108	257	499	-1082	C
ATOM	5057	O	ASP	E	466	51.316	-25.787	-8.955	1.00	34.03		O
ANISOU	5057	O	ASP	E	466	3140	4392	5398	449	373	-1114	O
ATOM	5058	N	MSE	E	467	49.498	-24.434	-9.038	1.00	30.80		N
ANISOU	5058	N	MSE	E	467	3052	3848	4801	183	475	-942	N
ATOM	5059	CA	MSE	E	467	48.846	-25.020	-7.854	1.00	30.56		C
ANISOU	5059	CA	MSE	E	467	3147	3717	4746	291	324	-814	C
ATOM	5060	CB	MSE	E	467	48.762	-26.561	-7.943	1.00	31.92		C
ANISOU	5060	CB	MSE	E	467	3352	3770	5007	491	255	-788	C
ATOM	5061	CG	MSE	E	467	47.737	-27.121	-8.964	1.00	31.71		C
ANISOU	5061	CG	MSE	E	467	3477	3592	4981	477	356	-771	C
ATOM	5062	SE	MSE	E	467	45.883	-26.433	-8.795	0.90	34.47		SE
ANISOU	5062	SE	MSE	E	467	4082	3825	5191	312	402	-618	SE
ATOM	5063	CE	MSE	E	467	45.524	-26.906	-6.992	1.00	31.60		C
ANISOU	5063	CE	MSE	E	467	3808	3411	4787	390	232	-460	C
ATOM	5064	C	MSE	E	467	49.441	-24.599	-6.507	1.00	31.54		C
ANISOU	5064	C	MSE	E	467	3189	3953	4840	301	184	-803	C
ATOM	5065	O	MSE	E	467	49.044	-25.120	-5.466	1.00	31.93		O
ANISOU	5065	O	MSE	E	467	3332	3957	4844	388	53	-692	O
ATOM	5066	N	THR	E	468	50.376	-23.644	-6.523	1.00	32.10		N
ANISOU	5066	N	THR	E	468	3090	4182	4925	193	214	-918	N
ATOM	5067	CA	THR	E	468	50.923	-23.058	-5.298	1.00	32.25		C
ANISOU	5067	CA	THR	E	468	3023	4330	4900	163	86	-940	C
ATOM	5068	CB	THR	E	468	52.209	-22.245	-5.586	1.00	33.45		C
ANISOU	5068	CB	THR	E	468	2925	4665	5118	52	132	-1109	C
ATOM	5069	OG1	THR	E	468	53.248	-23.146	-5.974	1.00	36.74		O
ANISOU	5069	OG1	THR	E	468	3131	5176	5652	209	99	-1199	O
ATOM	5070	CG2	THR	E	468	52.708	-21.493	-4.365	1.00	35.62		C
ANISOU	5070	CG2	THR	E	468	3114	5077	5342	-16	5	-1160	C
ATOM	5071	C	THR	E	468	49.829	-22.192	-4.665	1.00	30.54		C
ANISOU	5071	C	THR	E	468	2997	4041	4564	33	99	-864	C
ATOM	5072	O	THR	E	468	49.160	-21.413	-5.371	1.00	28.58		O
ANISOU	5072	O	THR	E	468	2848	3706	4305	-106	236	-861	O
ATOM	5073	N	PRO	E	469	49.621	-22.346	-3.345	1.00	30.70		N
ANISOU	5073	N	PRO	E	469	3072	4103	4490	85	-46	-802	N
ATOM	5074	CA	PRO	E	469	48.656	-21.488	-2.669	1.00	30.08		C
ANISOU	5074	CA	PRO	E	469	3144	3989	4298	-36	-24	-774	C
ATOM	5075	CB	PRO	E	469	48.508	-22.138	-1.284	1.00	31.30		C
ANISOU	5075	CB	PRO	E	469	3355	4213	4324	65	-191	-683	C
ATOM	5076	CG	PRO	E	469	49.779	-22.851	-1.077	1.00	33.03		C
ANISOU	5076	CG	PRO	E	469	3396	4554	4601	203	-334	-705	C
ATOM	5077	CD	PRO	E	469	50.246	-23.308	-2.421	1.00	32.56		C
ANISOU	5077	CD	PRO	E	469	3238	4425	4708	260	-238	-754	C
ATOM	5078	C	PRO	E	469	49.205	-20.071	-2.547	1.00	30.36		C
ANISOU	5078	C	PRO	E	469	3079	4112	4345	-212	15	-921	C
ATOM	5079	O	PRO	E	469	50.414	-19.874	-2.451	1.00	32.17		O
ANISOU	5079	O	PRO	E	469	3111	4488	4626	-230	-38	-1031	O
ATOM	5080	N	SER	E	470	48.312	-19.099	-2.559	1.00	28.84		N
ANISOU	5080	N	SER	E	470	3014	3820	4123	-340	103	-932	N
ATOM	5081	CA	SER	E	470	48.702	-17.729	-2.427	1.00	29.49		C
ANISOU	5081	CA	SER	E	470	3037	3929	4238	-515	142	-1067	C
ATOM	5082	CB	SER	E	470	48.867	-17.093	-3.809	1.00	28.97		C
ANISOU	5082	CB	SER	E	470	2956	3760	4289	-635	295	-1082	C
ATOM	5083	OG	SER	E	470	49.175	-15.713	-3.679	1.00	29.55		O
ANISOU	5083	OG	SER	E	470	3000	3813	4414	-824	336	-1197	O
ATOM	5084	C	SER	E	470	47.631	-16.997	-1.653	1.00	28.74		C
ANISOU	5084	C	SER	E	470	3092	3763	4065	-573	150	-1083	C
ATOM	5085	O	SER	E	470	46.443	-17.255	-1.843	1.00	26.47		O
ANISOU	5085	O	SER	E	470	2958	3353	3748	-526	203	-985	O
ATOM	5086	N	THR	E	471	48.069	-16.067	-0.807	1.00	30.16		N
ANISOU	5086	N	THR	E	471	3210	4030	4222	-681	102	-1231	N
ATOM	5087	CA	THR	E	471	47.155	-15.195	-0.063	1.00	30.86		C
ANISOU	5087	CA	THR	E	471	3415	4056	4254	-749	123	-1307	C
ATOM	5088	CB	THR	E	471	47.566	-15.088	1.420	1.00	32.72		C
ANISOU	5088	CB	THR	E	471	3592	4500	4342	-760	-10	-1427	C
ATOM	5089	OG1	THR	E	471	48.951	-14.718	1.504	1.00	37.22		O
ANISOU	5089	OG1	THR	E	471	3970	5205	4968	-843	-80	-1556	O
ATOM	5090	CG2	THR	E	471	47.380	-16.453	2.138	1.00	32.82		C
ANISOU	5090	CG2	THR	E	471	3640	4649	4181	-599	-122	-1281	C
ATOM	5091	C	THR	E	471	47.026	-13.797	-0.691	1.00	30.99		C
ANISOU	5091	C	THR	E	471	3462	3895	4418	-908	233	-1402	C

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Figure 18 (continued)

ATOM	5092	O	THR	E	471	46.403	-12.895	-0.095	1.00	32.41	O	
ANISOU	5092	O	THR	E	471	3716	4003	4595	-969	251	-1512	O
ATOM	5093	N	GLU	E	472	47.585	-13.628	-1.893	1.00	30.24	N	
ANISOU	5093	N	GLU	E	472	3317	3723	4448	-974	310	-1358	N
ATOM	5094	CA	GLU	E	472	47.662	-12.324	-2.573	1.00	30.68	C	
ANISOU	5094	CA	GLU	E	472	3405	3604	4648	-1148	408	-1413	C
ATOM	5095	CB	GLU	E	472	49.108	-11.861	-2.654	1.00	32.44	C	
ANISOU	5095	CB	GLU	E	472	3444	3937	4945	-1303	403	-1532	C
ATOM	5096	CG	GLU	E	472	49.779	-11.668	-1.290	1.00	37.76	C	
ANISOU	5096	CG	GLU	E	472	3990	4801	5555	-1337	276	-1720	C
ATOM	5097	CD	GLU	E	472	51.175	-12.305	-1.215	1.00	43.37	C	
ANISOU	5097	CD	GLU	E	472	4460	5762	6256	-1331	199	-1771	C
ATOM	5098	OE1	GLU	E	472	52.173	-11.548	-1.139	1.00	44.91	O	
ANISOU	5098	OE1	GLU	E	472	4502	6025	6538	-1509	199	-1925	O
ATOM	5099	OE2	GLU	E	472	51.270	-13.569	-1.236	1.00	42.62	O	
ANISOU	5099	OE2	GLU	E	472	4322	5787	6083	-1147	136	-1663	O
ATOM	5100	C	GLU	E	472	47.062	-12.382	-3.974	1.00	28.59	C	
ANISOU	5100	C	GLU	E	472	3251	3164	4447	-1137	517	-1248	C
ATOM	5101	O	GLU	E	472	46.385	-11.449	-4.397	1.00	28.12	O	
ANISOU	5101	O	GLU	E	472	3316	2897	4471	-1205	576	-1225	O
ATOM	5102	N	MSE	E	473	47.284	-13.494	-4.682	1.00	27.02	N	
ANISOU	5102	N	MSE	E	473	3012	3048	4206	-1042	532	-1137	N
ATOM	5103	CA	MSE	E	473	46.791	-13.651	-6.073	1.00	25.54	C	
ANISOU	5103	CA	MSE	E	473	2919	2739	4045	-1038	629	-993	C
ATOM	5104	CB	MSE	E	473	47.927	-13.574	-7.115	1.00	25.96	C	
ANISOU	5104	CB	MSE	E	473	2858	2862	4144	-1159	717	-991	C
ATOM	5105	CG	MSE	E	473	48.808	-12.339	-7.049	1.00	27.29	C	
ANISOU	5105	CG	MSE	E	473	2952	3011	4406	-1379	758	-1091	C
ATOM	5106	SE	MSE	E	473	47.910	-10.662	-7.515	0.90	31.81	SE	
ANISOU	5106	SE	MSE	E	473	3749	3250	5087	-1541	823	-1021	SE
ATOM	5107	CE	MSE	E	473	47.552	-10.998	-9.390	1.00	22.17	C	
ANISOU	5107	CE	MSE	E	473	2643	1969	3812	-1555	942	-793	C
ATOM	5108	C	MSE	E	473	46.107	-14.980	-6.236	1.00	23.39	C	
ANISOU	5108	C	MSE	E	473	2695	2501	3691	-856	603	-890	C
ATOM	5109	O	MSE	E	473	46.393	-15.922	-5.503	1.00	22.98	O	
ANISOU	5109	O	MSE	E	473	2572	2580	3579	-744	522	-910	O
ATOM	5110	N	SER	E	474	45.225	-15.055	-7.218	1.00	21.86	N	
ANISOU	5110	N	SER	E	474	2624	2183	3498	-833	662	-776	N
ATOM	5111	CA	SER	E	474	44.566	-16.309	-7.532	1.00	21.14	C	
ANISOU	5111	CA	SER	E	474	2578	2108	3346	-687	648	-690	C
ATOM	5112	CB	SER	E	474	43.337	-16.499	-6.641	1.00	19.96	C	
ANISOU	5112	CB	SER	E	474	2523	1903	3156	-597	594	-671	C
ATOM	5113	OG	SER	E	474	42.904	-17.839	-6.691	1.00	17.66	O	
ANISOU	5113	OG	SER	E	474	2253	1645	2812	-475	569	-603	O
ATOM	5114	C	SER	E	474	44.153	-16.398	-9.009	1.00	21.27	C	
ANISOU	5114	C	SER	E	474	2672	2053	3359	-708	727	-592	C
ATOM	5115	O	SER	E	474	43.946	-15.384	-9.652	1.00	20.89	O	
ANISOU	5115	O	SER	E	474	2694	1900	3342	-814	775	-549	O
ATOM	5116	N	MSE	E	475	44.041	-17.620	-9.536	1.00	21.43	N	
ANISOU	5116	N	MSE	E	475	2683	2123	3336	-608	732	-558	N
ATOM	5117	CA	MSE	E	475	43.337	-17.808	-10.790	1.00	22.35	C	
ANISOU	5117	CA	MSE	E	475	2894	2181	3417	-609	783	-475	C
ATOM	5118	CB	MSE	E	475	43.262	-19.297	-11.154	1.00	21.85	C	
ANISOU	5118	CB	MSE	E	475	2809	2173	3321	-490	776	-482	C
ATOM	5119	CG	MSE	E	475	44.593	-19.830	-11.643	1.00	24.48	C	
ANISOU	5119	CG	MSE	E	475	3003	2637	3663	-493	828	-563	C
ATOM	5120	SE	MSE	E	475	44.487	-21.578	-12.470	0.90	25.13	SE	
ANISOU	5120	SE	MSE	E	475	3073	2746	3730	-353	842	-603	SE
ATOM	5121	CE	MSE	E	475	44.118	-22.622	-10.880	1.00	14.68	C	
ANISOU	5121	CE	MSE	E	475	1759	1354	2463	-188	701	-580	C
ATOM	5122	C	MSE	E	475	41.951	-17.191	-10.626	1.00	21.56	C	
ANISOU	5122	C	MSE	E	475	2925	1942	3326	-596	747	-409	C
ATOM	5123	O	MSE	E	475	41.300	-17.398	-9.596	1.00	20.22	O	
ANISOU	5123	O	MSE	E	475	2769	1750	3164	-523	691	-430	O
ATOM	5124	N	ARG	E	476	41.543	-16.382	-11.605	1.00	22.84	N	
ANISOU	5124	N	ARG	E	476	3174	2018	3486	-669	779	-331	N
ATOM	5125	CA	ARG	E	476	40.252	-15.645	-11.593	1.00	23.43	C	
ANISOU	5125	CA	ARG	E	476	3359	1948	3596	-642	734	-269	C
ATOM	5126	CB	ARG	E	476	40.013	-14.999	-12.975	1.00	24.07	C	
ANISOU	5126	CB	ARG	E	476	3538	1961	3647	-714	755	-147	C
ATOM	5127	CG	ARG	E	476	38.593	-14.426	-13.168	1.00	27.79	C	

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Figure 18 (continued)

ANISOU	5127	CG	ARG	E	476	4110	2292	4159	-646	680	-70	C
ATOM	5128	CD	ARG	E	476	38.209	-14.075	-14.619	1.00	28.50		C
ANISOU	5128	CD	ARG	E	476	4305	2345	4177	-684	665	79	C
ATOM	5129	NE	ARG	E	476	38.636	-14.995	-15.699	1.00	32.45		N
ANISOU	5129	NE	ARG	E	476	4797	3003	4528	-722	716	104	N
ATOM	5130	CZ	ARG	E	476	37.899	-15.993	-16.202	1.00	31.12		C
ANISOU	5130	CZ	ARG	E	476	4629	2913	4282	-642	682	96	C
ATOM	5131	NH1	ARG	E	476	36.693	-16.294	-15.685	1.00	30.33		N
ANISOU	5131	NH1	ARG	E	476	4521	2762	4240	-526	601	71	N
ATOM	5132	NH2	ARG	E	476	38.385	-16.718	-17.191	1.00	25.61		N
ANISOU	5132	NH2	ARG	E	476	3925	2354	3452	-687	739	89	N
ATOM	5133	C	ARG	E	476	39.015	-16.489	-11.142	1.00	21.83		C
ANISOU	5133	C	ARG	E	476	3173	1741	3380	-513	681	-273	C
ATOM	5134	O	ARG	E	476	38.679	-17.503	-11.745	1.00	21.04		O
ANISOU	5134	O	ARG	E	476	3079	1693	3224	-465	681	-247	O
ATOM	5135	N	GLY	E	477	38.372	-16.052	-10.058	1.00	21.70		N
ANISOU	5135	N	GLY	E	477	3157	1672	3416	-473	646	-324	N
ATOM	5136	CA	GLY	E	477	37.207	-16.716	-9.484	1.00	20.09		C
ANISOU	5136	CA	GLY	E	477	2953	1479	3200	-382	617	-338	C
ATOM	5137	C	GLY	E	477	37.443	-18.027	-8.755	1.00	19.41		C
ANISOU	5137	C	GLY	E	477	2821	1499	3053	-341	617	-363	C
ATOM	5138	O	GLY	E	477	36.471	-18.609	-8.296	1.00	19.64		O
ANISOU	5138	O	GLY	E	477	2856	1537	3067	-294	607	-361	O
ATOM	5139	N	ILE	E	478	38.696	-18.502	-8.647	1.00	18.91		N
ANISOU	5139	N	ILE	E	478	2708	1514	2965	-357	623	-381	N
ATOM	5140	CA	ILE	E	478	39.017	-19.810	-8.023	1.00	17.77		C
ANISOU	5140	CA	ILE	E	478	2530	1443	2777	-297	599	-380	C
ATOM	5141	CB	ILE	E	478	40.039	-20.648	-8.855	1.00	18.55		C
ANISOU	5141	CB	ILE	E	478	2584	1586	2878	-277	612	-379	C
ATOM	5142	CG1	ILE	E	478	39.751	-20.616	-10.374	1.00	17.27		C
ANISOU	5142	CG1	ILE	E	478	2459	1391	2711	-306	659	-354	C
ATOM	5143	CD1	ILE	E	478	38.418	-21.271	-10.824	1.00	13.13		C
ANISOU	5143	CD1	ILE	E	478	2003	811	2174	-270	646	-315	C
ATOM	5144	CG2	ILE	E	478	40.182	-22.098	-8.267	1.00	18.35		C
ANISOU	5144	CG2	ILE	E	478	2547	1581	2843	-186	567	-361	C
ATOM	5145	C	ILE	E	478	39.616	-19.651	-6.599	1.00	18.69		C
ANISOU	5145	C	ILE	E	478	2602	1637	2863	-298	561	-430	C
ATOM	5146	O	ILE	E	478	40.569	-18.901	-6.395	1.00	18.45		O
ANISOU	5146	O	ILE	E	478	2515	1647	2850	-348	556	-490	O
ATOM	5147	N	ARG	E	479	39.035	-20.351	-5.617	1.00	18.39		N
ANISOU	5147	N	ARG	E	479	2589	1632	2767	-257	533	-405	N
ATOM	5148	CA	ARG	E	479	39.554	-20.346	-4.253	1.00	19.06		C
ANISOU	5148	CA	ARG	E	479	2644	1820	2777	-256	483	-435	C
ATOM	5149	CB	ARG	E	479	38.638	-19.533	-3.312	1.00	19.09		C
ANISOU	5149	CB	ARG	E	479	2674	1845	2733	-297	507	-498	C
ATOM	5150	CG	ARG	E	479	38.471	-18.073	-3.712	1.00	20.34		C
ANISOU	5150	CG	ARG	E	479	2824	1925	2979	-348	545	-592	C
ATOM	5151	CD	ARG	E	479	39.752	-17.232	-3.507	1.00	22.85		C
ANISOU	5151	CD	ARG	E	479	3081	2279	3322	-408	517	-680	C
ATOM	5152	NE	ARG	E	479	39.500	-15.800	-3.765	1.00	25.19		N
ANISOU	5152	NE	ARG	E	479	3393	2459	3718	-468	552	-765	N
ATOM	5153	CZ	ARG	E	479	39.487	-15.222	-4.979	1.00	27.21		C
ANISOU	5153	CZ	ARG	E	479	3679	2582	4078	-498	582	-718	C
ATOM	5154	NH1	ARG	E	479	39.709	-15.928	-6.090	1.00	26.37		N
ANISOU	5154	NH1	ARG	E	479	3581	2470	3970	-482	595	-610	N
ATOM	5155	NH2	ARG	E	479	39.248	-13.924	-5.085	1.00	26.41		N
ANISOU	5155	NH2	ARG	E	479	3609	2347	4078	-547	597	-780	N
ATOM	5156	C	ARG	E	479	39.697	-21.757	-3.727	1.00	19.49		C
ANISOU	5156	C	ARG	E	479	2720	1912	2775	-189	429	-345	C
ATOM	5157	O	ARG	E	479	38.976	-22.661	-4.158	1.00	18.74		O
ANISOU	5157	O	ARG	E	479	2681	1743	2697	-162	449	-271	O
ATOM	5158	N	VAL	E	480	40.609	-21.940	-2.772	1.00	20.82		N
ANISOU	5158	N	VAL	E	480	2847	2187	2876	-166	349	-348	N
ATOM	5159	CA	VAL	E	480	40.767	-23.248	-2.116	1.00	21.96		C
ANISOU	5159	CA	VAL	E	480	3031	2353	2960	-92	271	-232	C
ATOM	5160	CB	VAL	E	480	42.207	-23.838	-2.322	1.00	22.03		C
ANISOU	5160	CB	VAL	E	480	2948	2393	3028	3	178	-229	C
ATOM	5161	CG1	VAL	E	480	42.429	-25.077	-1.472	1.00	22.81		C
ANISOU	5161	CG1	VAL	E	480	3098	2500	3069	95	63	-94	C
ATOM	5162	CG2	VAL	E	480	42.460	-24.160	-3.772	1.00	20.19		C
ANISOU	5162	CG2	VAL	E	480	2677	2061	2932	38	234	-261	C

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Figure 18 (continued)

ATOM	5163	C	VAL	E	480	40.412	-23.122	-0.620	1.00	23.54	
ANISOU	5163	C	VAL	E	480	3277	2674	2994	-131	235	-206
ATOM	5164	O	VAL	E	480	40.953	-22.280	0.097	1.00	24.05	
ANISOU	5164	O	VAL	E	480	3287	2864	2988	-167	198	-300
ATOM	5165	N	SER	E	481	39.492	-23.966	-0.161	1.00	24.81	
ANISOU	5165	N	SER	E	481	3538	2808	3083	-141	253	-88
ATOM	5166	CA	SER	E	481	39.093	-24.015	1.249	1.00	26.08	
ANISOU	5166	CA	SER	E	481	3757	3104	3048	-193	236	-40
ATOM	5167	CB	SER	E	481	37.836	-24.872	1.399	1.00	25.78	
ANISOU	5167	CB	SER	E	481	3824	3003	2969	-243	310	83
ATOM	5168	OG	SER	E	481	37.426	-24.964	2.750	1.00	25.77	
ANISOU	5168	OG	SER	E	481	3886	3155	2752	-316	315	141
ATOM	5169	C	SER	E	481	40.194	-24.566	2.157	1.00	28.89	
ANISOU	5169	C	SER	E	481	4114	3570	3294	-131	82	47
ATOM	5170	O	SER	E	481	40.829	-25.579	1.858	1.00	29.34	
ANISOU	5170	O	SER	E	481	4181	3543	3423	-30	-9	161
ATOM	5171	N	LYS	E	482	40.406	-23.902	3.280	1.00	31.33	
ANISOU	5171	N	LYS	E	482	4407	4070	3426	-183	44	-16
ATOM	5172	CA	LYS	E	482	41.264	-24.437	4.320	1.00	35.34	
ANISOU	5172	CA	LYS	E	482	4931	4720	3776	-135	-119	86
ATOM	5173	CB	LYS	E	482	42.004	-23.295	5.021	1.00	36.93	
ANISOU	5173	CB	LYS	E	482	5031	5127	3875	-177	-179	-95
ATOM	5174	CG	LYS	E	482	43.111	-22.672	4.207	1.00	38.22	
ANISOU	5174	CG	LYS	E	482	5038	5259	4224	-134	-219	-240
ATOM	5175	CD	LYS	E	482	43.698	-21.521	4.982	1.00	44.98	
ANISOU	5175	CD	LYS	E	482	5803	6309	4977	-211	-267	-433
ATOM	5176	CE	LYS	E	482	45.223	-21.561	4.968	1.00	47.96	
ANISOU	5176	CE	LYS	E	482	6028	6783	5410	-142	-430	-476
ATOM	5177	NZ	LYS	E	482	45.777	-20.298	5.551	1.00	50.79	
ANISOU	5177	NZ	LYS	E	482	6280	7307	5710	-250	-458	-708
ATOM	5178	C	LYS	E	482	40.480	-25.277	5.345	1.00	37.85	
ANISOU	5178	C	LYS	E	482	5402	5097	3882	-186	-120	278
ATOM	5179	O	LYS	E	482	41.059	-25.722	6.324	1.00	40.42	
ANISOU	5179	O	LYS	E	482	5770	5557	4030	-157	-263	396
ATOM	5180	N	MSE	E	483	39.178	-25.477	5.113	1.00	38.08	
ANISOU	5180	N	MSE	E	483	5507	5039	3923	-271	35	313
ATOM	5181	CA	MSE	E	483	38.319	-26.309	5.975	1.00	41.13	
ANISOU	5181	CA	MSE	E	483	6038	5469	4121	-357	73	501
ATOM	5182	CB	MSE	E	483	36.882	-25.754	6.064	1.00	40.37	
ANISOU	5182	CB	MSE	E	483	5941	5421	3976	-498	279	393
ATOM	5183	CG	MSE	E	483	36.761	-24.265	6.345	1.00	40.01	
ANISOU	5183	CG	MSE	E	483	5787	5531	3882	-542	350	123
ATOM	5184	SE	MSE	E	483	37.684	-23.720	7.991	0.90	48.53	
ANISOU	5184	SE	MSE	E	483	6871	6944	4625	-576	224	65
ATOM	5185	CE	MSE	E	483	36.796	-24.873	9.310	1.00	39.30	
ANISOU	5185	CE	MSE	E	483	5885	5939	3108	-711	273	332
ATOM	5186	C	MSE	E	483	38.246	-27.706	5.373	1.00	42.30	
ANISOU	5186	C	MSE	E	483	6281	5381	4412	-297	34	716
ATOM	5187	O	MSE	E	483	37.810	-27.893	4.207	1.00	41.41	
ANISOU	5187	O	MSE	E	483	6140	5074	4520	-280	115	669
ATOM	5188	OXT	MSE	E	483	38.610	-28.668	6.048	1.00	45.09	
ANISOU	5188	OXT	MSE	E	483	6745	5727	4660	-266	-87	937
ATOM	5189	N	SER	F	322	34.011	6.452	-60.832	1.00	64.98	
ANISOU	5189	N	SER	F	322	10039	10556	4093	-1803	691	1251
ATOM	5190	CA	SER	F	322	32.816	6.735	-59.979	1.00	62.59	
ANISOU	5190	CA	SER	F	322	9734	10002	4046	-1536	361	1309
ATOM	5191	CB	SER	F	322	32.604	8.243	-59.821	1.00	64.65	
ANISOU	5191	CB	SER	F	322	10337	9931	4296	-1631	298	1564
ATOM	5192	OG	SER	F	322	33.389	8.747	-58.754	1.00	65.13	
ANISOU	5192	OG	SER	F	322	10229	9915	4604	-1806	456	1515
ATOM	5193	C	SER	F	322	31.562	6.093	-60.548	1.00	61.62	
ANISOU	5193	C	SER	F	322	9683	9900	3831	-1253	68	1295
ATOM	5194	O	SER	F	322	31.304	6.186	-61.745	1.00	64.33	
ANISOU	5194	O	SER	F	322	10330	10282	3832	-1271	13	1407
ATOM	5195	N	PHE	F	323	30.793	5.447	-59.672	1.00	57.78	
ANISOU	5195	N	PHE	F	323	8921	9391	3643	-1013	-115	1152
ATOM	5196	CA	PHE	F	323	29.540	4.774	-60.034	1.00	56.60	
ANISOU	5196	CA	PHE	F	323	8754	9271	3481	-759	-400	1094
ATOM	5197	CB	PHE	F	323	29.803	3.472	-60.817	1.00	56.49	
ANISOU	5197	CB	PHE	F	323	8646	9535	3285	-767	-321	906
ATOM	5198	CG	PHE	F	323	30.640	2.458	-60.073	1.00	53.82	

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Figure 18 (continued)

ANISOU	5198	CG	PHE	F	323	7956	9345	3148	-799	-105	669	C
ATOM	5199	CD1	PHE	F	323	30.039	1.474	-59.298	1.00	49.66		C
ANISOU	5199	CD1	PHE	F	323	7167	8820	2880	-621	-219	487	C
ATOM	5200	CE1	PHE	F	323	30.800	0.533	-58.628	1.00	48.33		C
ANISOU	5200	CE1	PHE	F	323	6732	8755	2877	-621	-52	290	C
ATOM	5201	CZ	PHE	F	323	32.182	0.565	-58.719	1.00	49.24		C
ANISOU	5201	CZ	PHE	F	323	6772	9006	2930	-778	220	248	C
ATOM	5202	CE2	PHE	F	323	32.796	1.537	-59.491	1.00	52.46		C
ANISOU	5202	CE2	PHE	F	323	7386	9446	3100	-985	365	404	C
ATOM	5203	CD2	PHE	F	323	32.028	2.476	-60.167	1.00	54.43		C
ANISOU	5203	CD2	PHE	F	323	7968	9559	3154	-1005	210	625	C
ATOM	5204	C	PHE	F	323	28.693	4.508	-58.789	1.00	53.34		C
ANISOU	5204	C	PHE	F	323	8069	8746	3453	-555	-559	984	C
ATOM	5205	O	PHE	F	323	28.952	5.075	-57.735	1.00	52.04		O
ANISOU	5205	O	PHE	F	323	7823	8434	3515	-588	-490	1003	O
ATOM	5206	N	SER	F	324	27.717	3.610	-58.913	1.00	52.31		N
ANISOU	5206	N	SER	F	324	7801	8693	3380	-371	-751	850	N
ATOM	5207	CA	SER	F	324	26.659	3.430	-57.923	1.00	50.15		C
ANISOU	5207	CA	SER	F	324	7311	8311	3432	-183	-917	760	C
ATOM	5208	CB	SER	F	324	25.461	4.292	-58.342	1.00	52.27		C
ANISOU	5208	CB	SER	F	324	7742	8435	3685	-5	-1217	905	C
ATOM	5209	OG	SER	F	324	24.546	4.524	-57.289	1.00	51.91		O
ANISOU	5209	OG	SER	F	324	7504	8244	3975	161	-1325	848	O
ATOM	5210	C	SER	F	324	26.254	1.948	-57.864	1.00	48.44		C
ANISOU	5210	C	SER	F	324	6852	8258	3293	-116	-945	520	C
ATOM	5211	O	SER	F	324	26.075	1.322	-58.895	1.00	50.04		O
ANISOU	5211	O	SER	F	324	7125	8610	3280	-114	-1019	464	O
ATOM	5212	N	PHE	F	325	26.129	1.389	-56.660	1.00	45.78		N
ANISOU	5212	N	PHE	F	325	6271	7878	3245	-79	-878	379	N
ATOM	5213	CA	PHE	F	325	25.670	-0.004	-56.478	1.00	43.79		C
ANISOU	5213	CA	PHE	F	325	5824	7722	3091	-32	-896	158	C
ATOM	5214	CB	PHE	F	325	26.785	-1.009	-56.819	1.00	43.32		C
ANISOU	5214	CB	PHE	F	325	5751	7815	2894	-128	-702	38	C
ATOM	5215	CG	PHE	F	325	26.407	-2.453	-56.596	1.00	42.81		C
ANISOU	5215	CG	PHE	F	325	5543	7795	2927	-86	-705	-186	C
ATOM	5216	CD1	PHE	F	325	25.471	-3.087	-57.424	1.00	45.16		C
ANISOU	5216	CD1	PHE	F	325	5857	8167	3136	-52	-875	-288	C
ATOM	5217	CE1	PHE	F	325	25.112	-4.424	-57.209	1.00	44.54		C
ANISOU	5217	CE1	PHE	F	325	5674	8097	3153	-49	-865	-503	C
ATOM	5218	CZ	PHE	F	325	25.706	-5.150	-56.167	1.00	42.37		C
ANISOU	5218	CZ	PHE	F	325	5311	7741	3047	-53	-689	-594	C
ATOM	5219	CE2	PHE	F	325	26.651	-4.536	-55.348	1.00	40.54		C
ANISOU	5219	CE2	PHE	F	325	5059	7456	2890	-58	-547	-487	C
ATOM	5220	CD2	PHE	F	325	26.989	-3.188	-55.561	1.00	41.44		C
ANISOU	5220	CD2	PHE	F	325	5244	7577	2924	-88	-552	-295	C
ATOM	5221	C	PHE	F	325	25.132	-0.224	-55.053	1.00	41.64		C
ANISOU	5221	C	PHE	F	325	5353	7325	3145	26	-873	66	C
ATOM	5222	O	PHE	F	325	25.807	0.091	-54.067	1.00	39.51		O
ANISOU	5222	O	PHE	F	325	5054	6968	2990	-20	-727	92	O
ATOM	5223	N	GLY	F	326	23.906	-0.747	-54.969	1.00	41.53		N
ANISOU	5223	N	GLY	F	326	5205	7311	3264	109	-1015	-51	N
ATOM	5224	CA	GLY	F	326	23.229	-1.041	-53.700	1.00	39.72		C
ANISOU	5224	CA	GLY	F	326	4794	6976	3322	140	-970	-158	C
ATOM	5225	C	GLY	F	326	23.119	0.104	-52.706	1.00	39.23		C
ANISOU	5225	C	GLY	F	326	4733	6746	3427	187	-931	-57	C
ATOM	5226	O	GLY	F	326	23.248	-0.105	-51.503	1.00	37.01		O
ANISOU	5226	O	GLY	F	326	4384	6376	3302	155	-790	-119	O
ATOM	5227	N	GLY	F	327	22.887	1.309	-53.220	1.00	40.74		N
ANISOU	5227	N	GLY	F	327	5040	6875	3563	264	-1061	99	N
ATOM	5228	CA	GLY	F	327	22.741	2.501	-52.404	1.00	41.28		C
ANISOU	5228	CA	GLY	F	327	5152	6754	3780	325	-1040	192	C
ATOM	5229	C	GLY	F	327	24.066	3.126	-51.996	1.00	40.95		C
ANISOU	5229	C	GLY	F	327	5272	6631	3655	195	-873	305	C
ATOM	5230	O	GLY	F	327	24.101	4.024	-51.162	1.00	40.80		O
ANISOU	5230	O	GLY	F	327	5305	6440	3756	207	-821	353	O
ATOM	5231	N	PHE	F	328	25.160	2.646	-52.578	1.00	40.57		N
ANISOU	5231	N	PHE	F	328	5289	6716	3411	64	-781	323	N
ATOM	5232	CA	PHE	F	328	26.480	3.152	-52.254	1.00	40.14		C
ANISOU	5232	CA	PHE	F	328	5327	6634	3289	-87	-619	398	C
ATOM	5233	CB	PHE	F	328	27.337	2.054	-51.593	1.00	38.59		C
ANISOU	5233	CB	PHE	F	328	4985	6548	3129	-161	-471	255	C

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Figure 18 (continued)

ATOM	5234	CG	PHE	F	328	26.937	1.747	-50.172	1.00	36.26		C
ANISOU	5234	CG	PHE	F	328	4584	6146	3047	-114	-436	152	C
ATOM	5235	CD1	PHE	F	328	27.509	2.439	-49.118	1.00	35.56		C
ANISOU	5235	CD1	PHE	F	328	4532	5943	3037	-180	-359	178	C
ATOM	5236	CE1	PHE	F	328	27.135	2.179	-47.794	1.00	35.95		C
ANISOU	5236	CE1	PHE	F	328	4532	5891	3238	-147	-318	85	C
ATOM	5237	CZ	PHE	F	328	26.175	1.205	-47.525	1.00	35.59		C
ANISOU	5237	CZ	PHE	F	328	4392	5853	3279	-67	-328	-30	C
ATOM	5238	CE2	PHE	F	328	25.579	0.501	-48.591	1.00	35.31		C
ANISOU	5238	CE2	PHE	F	328	4292	5930	3195	-16	-406	-67	C
ATOM	5239	CD2	PHE	F	328	25.972	0.772	-49.896	1.00	36.57		C
ANISOU	5239	CD2	PHE	F	328	4509	6196	3191	-31	-472	21	C
ATOM	5240	C	PHE	F	328	27.164	3.747	-53.487	1.00	42.14		C
ANISOU	5240	C	PHE	F	328	5784	6945	3284	-188	-612	551	C
ATOM	5241	O	PHE	F	328	27.123	3.162	-54.574	1.00	43.04		O
ANISOU	5241	O	PHE	F	328	5930	7212	3211	-186	-657	538	O
ATOM	5242	N	THR	F	329	27.753	4.931	-53.308	1.00	43.06		N
ANISOU	5242	N	THR	F	329	6063	6922	3376	-296	-547	691	N
ATOM	5243	CA	THR	F	329	28.590	5.562	-54.324	1.00	44.99		C
ANISOU	5243	CA	THR	F	329	6526	7199	3369	-463	-471	842	C
ATOM	5244	CB	THR	F	329	28.582	7.124	-54.212	1.00	47.13		C
ANISOU	5244	CB	THR	F	329	7067	7201	3639	-520	-492	1036	C
ATOM	5245	OG1	THR	F	329	27.239	7.622	-54.309	1.00	47.99		O
ANISOU	5245	OG1	THR	F	329	7274	7135	3825	-281	-725	1105	O
ATOM	5246	CG2	THR	F	329	29.435	7.782	-55.313	1.00	49.33		C
ANISOU	5246	CG2	THR	F	329	7622	7494	3626	-739	-385	1209	C
ATOM	5247	C	THR	F	329	30.011	5.037	-54.169	1.00	44.33		C
ANISOU	5247	C	THR	F	329	6307	7296	3238	-659	-242	750	C
ATOM	5248	O	THR	F	329	30.661	5.270	-53.164	1.00	43.50		O
ANISOU	5248	O	THR	F	329	6103	7145	3278	-750	-146	702	O
ATOM	5249	N	PHE	F	330	30.485	4.299	-55.160	1.00	45.43		N
ANISOU	5249	N	PHE	F	330	6430	7653	3179	-712	-166	704	N
ATOM	5250	CA	PHE	F	330	31.856	3.815	-55.144	1.00	45.51		C
ANISOU	5250	CA	PHE	F	330	6284	7859	3150	-873	57	599	C
ATOM	5251	CB	PHE	F	330	31.974	2.448	-55.811	1.00	44.24		C
ANISOU	5251	CB	PHE	F	330	5998	7924	2886	-793	95	438	C
ATOM	5252	CG	PHE	F	330	31.265	1.341	-55.083	1.00	41.56		C
ANISOU	5252	CG	PHE	F	330	5484	7570	2737	-593	-24	281	C
ATOM	5253	CD1	PHE	F	330	31.970	0.227	-54.643	1.00	39.01		C
ANISOU	5253	CD1	PHE	F	330	4950	7373	2501	-551	72	97	C
ATOM	5254	CE1	PHE	F	330	31.319	-0.811	-53.999	1.00	36.87		C
ANISOU	5254	CE1	PHE	F	330	4580	7051	2379	-392	-23	-32	C
ATOM	5255	CZ	PHE	F	330	29.941	-0.742	-53.767	1.00	36.29		C
ANISOU	5255	CZ	PHE	F	330	4566	6835	2390	-298	-191	0	C
ATOM	5256	CE2	PHE	F	330	29.229	0.364	-54.190	1.00	37.65		C
ANISOU	5256	CE2	PHE	F	330	4887	6913	2505	-313	-297	159	C
ATOM	5257	CD2	PHE	F	330	29.886	1.396	-54.852	1.00	39.87		C
ANISOU	5257	CD2	PHE	F	330	5319	7211	2619	-446	-227	310	C
ATOM	5258	C	PHE	F	330	32.713	4.818	-55.875	1.00	48.65		C
ANISOU	5258	C	PHE	F	330	6873	8264	3348	-1124	219	745	C
ATOM	5259	O	PHE	F	330	32.259	5.448	-56.807	1.00	50.59		O
ANISOU	5259	O	PHE	F	330	7408	8428	3384	-1150	160	912	O
ATOM	5260	N	LYS	F	331	33.946	4.979	-55.416	1.00	50.04		N
ANISOU	5260	N	LYS	F	331	6892	8531	3590	-1318	414	680	N
ATOM	5261	CA	LYS	F	331	34.964	5.753	-56.116	1.00	53.68		C
ANISOU	5261	CA	LYS	F	331	7471	9055	3869	-1620	639	769	C
ATOM	5262	CB	LYS	F	331	35.231	7.083	-55.410	1.00	55.11		C
ANISOU	5262	CB	LYS	F	331	7777	9006	4157	-1811	660	889	C
ATOM	5263	CG	LYS	F	331	34.021	7.996	-55.305	1.00	58.38		C
ANISOU	5263	CG	LYS	F	331	8516	9084	4581	-1684	447	1080	C
ATOM	5264	CD	LYS	F	331	34.421	9.467	-55.258	1.00	65.79		C
ANISOU	5264	CD	LYS	F	331	9739	9778	5479	-1948	534	1252	C
ATOM	5265	CE	LYS	F	331	33.390	10.311	-56.018	1.00	69.37		C
ANISOU	5265	CE	LYS	F	331	10638	9954	5763	-1842	370	1498	C
ATOM	5266	NZ	LYS	F	331	33.674	11.800	-55.808	1.00	74.95		N
ANISOU	5266	NZ	LYS	F	331	11678	10334	6466	-2070	432	1671	N
ATOM	5267	C	LYS	F	331	36.204	4.910	-56.034	1.00	53.61		C
ANISOU	5267	C	LYS	F	331	7117	9344	3907	-1704	845	557	C
ATOM	5268	O	LYS	F	331	36.661	4.624	-54.932	1.00	51.96		O
ANISOU	5268	O	LYS	F	331	6638	9168	3938	-1666	824	424	O
ATOM	5269	N	ARG	F	332	36.740	4.480	-57.175	1.00	55.82		N

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Figure 18 (continued)

ANISOU	5269	N	ARG	F	332	7406	9846	3958	-1795	1035	512	N
ATOM	5270	CA	ARG	F	332	37.975	3.711	-57.141	1.00	56.45		C
ANISOU	5270	CA	ARG	F	332	7126	10222	4102	-1854	1251	286	C
ATOM	5271	CB	ARG	F	332	38.200	2.902	-58.417	1.00	58.54		C
ANISOU	5271	CB	ARG	F	332	7413	10718	4111	-1836	1419	191	C
ATOM	5272	CG	ARG	F	332	39.426	1.993	-58.330	1.00	58.83		C
ANISOU	5272	CG	ARG	F	332	7035	11059	4257	-1823	1632	-82	C
ATOM	5273	CD	ARG	F	332	39.626	1.183	-59.593	1.00	60.93		C
ANISOU	5273	CD	ARG	F	332	7343	11542	4265	-1793	1821	-205	C
ATOM	5274	NE	ARG	F	332	40.094	1.998	-60.711	1.00	63.73		N
ANISOU	5274	NE	ARG	F	332	7925	11986	4305	-2121	2102	-93	N
ATOM	5275	CZ	ARG	F	332	39.945	1.662	-61.989	1.00	67.27		C
ANISOU	5275	CZ	ARG	F	332	8607	12545	4407	-2151	2238	-103	C
ATOM	5276	NH1	ARG	F	332	39.334	0.528	-62.321	1.00	65.85		N
ANISOU	5276	NH1	ARG	F	332	8448	12400	4171	-1873	2106	-235	N
ATOM	5277	NH2	ARG	F	332	40.400	2.464	-62.946	1.00	71.36		N
ANISOU	5277	NH2	ARG	F	332	9373	13127	4613	-2480	2512	18	N
ATOM	5278	C	ARG	F	332	39.138	4.648	-56.879	1.00	58.97		C
ANISOU	5278	C	ARG	F	332	7335	10596	4475	-2189	1464	297	C
ATOM	5279	O	ARG	F	332	39.386	5.586	-57.629	1.00	61.80		O
ANISOU	5279	O	ARG	F	332	7943	10911	4627	-2474	1635	449	O
ATOM	5280	N	THR	F	333	39.841	4.386	-55.789	1.00	58.21		N
ANISOU	5280	N	THR	F	333	6878	10586	4652	-2165	1442	134	N
ATOM	5281	CA	THR	F	333	40.945	5.229	-55.366	1.00	60.07		C
ANISOU	5281	CA	THR	F	333	6945	10888	4991	-2487	1602	103	C
ATOM	5282	CB	THR	F	333	40.955	5.395	-53.809	1.00	57.87		C
ANISOU	5282	CB	THR	F	333	6499	10485	5005	-2405	1378	45	C
ATOM	5283	OG1	THR	F	333	40.820	4.116	-53.173	1.00	53.94		O
ANISOU	5283	OG1	THR	F	333	5755	10082	4659	-2055	1210	-124	O
ATOM	5284	CG2	THR	F	333	39.781	6.265	-53.360	1.00	55.42		C
ANISOU	5284	CG2	THR	F	333	6572	9793	4692	-2367	1177	257	C
ATOM	5285	C	THR	F	333	42.260	4.664	-55.913	1.00	63.49		C
ANISOU	5285	C	THR	F	333	7009	11703	5413	-2612	1892	-115	C
ATOM	5286	O	THR	F	333	43.229	5.410	-56.156	1.00	66.66		O
ANISOU	5286	O	THR	F	333	7310	12223	5793	-2977	2143	-133	O
ATOM	5287	N	SER	F	334	42.274	3.351	-56.144	1.00	62.58		N
ANISOU	5287	N	SER	F	334	6695	11769	5312	-2317	1875	-291	N
ATOM	5288	CA	SER	F	334	43.502	2.644	-56.507	1.00	65.70		C
ANISOU	5288	CA	SER	F	334	6674	12530	5758	-2338	2121	-550	C
ATOM	5289	CB	SER	F	334	44.291	2.301	-55.244	1.00	65.54		C
ANISOU	5289	CB	SER	F	334	6199	12626	6076	-2225	1985	-745	C
ATOM	5290	OG	SER	F	334	44.801	3.472	-54.626	1.00	68.04		O
ANISOU	5290	OG	SER	F	334	6457	12896	6498	-2553	2002	-685	O
ATOM	5291	C	SER	F	334	43.246	1.357	-57.283	1.00	65.13		C
ANISOU	5291	C	SER	F	334	6595	12586	5565	-2050	2161	-684	C
ATOM	5292	O	SER	F	334	42.223	0.701	-57.097	1.00	62.02		O
ANISOU	5292	O	SER	F	334	6381	12018	5168	-1758	1918	-644	O
ATOM	5293	N	GLY	F	335	44.195	0.999	-58.142	1.00	68.40		N
ANISOU	5293	N	GLY	F	335	6793	13307	5888	-2150	2488	-866	N
ATOM	5294	CA	GLY	F	335	44.157	-0.277	-58.850	1.00	68.50		C
ANISOU	5294	CA	GLY	F	335	6754	13467	5808	-1876	2563	-1055	C
ATOM	5295	C	GLY	F	335	43.389	-0.225	-60.154	1.00	68.74		C
ANISOU	5295	C	GLY	F	335	7239	13435	5445	-1951	2668	-925	C
ATOM	5296	O	GLY	F	335	43.026	0.858	-60.629	1.00	69.46		O
ANISOU	5296	O	GLY	F	335	7680	13399	5314	-2236	2722	-681	O
ATOM	5297	N	SER	F	336	43.149	-1.405	-60.731	1.00	68.37		N
ANISOU	5297	N	SER	F	336	7212	13464	5303	-1688	2679	-1092	N
ATOM	5298	CA	SER	F	336	42.397	-1.531	-61.986	1.00	69.05		C
ANISOU	5298	CA	SER	F	336	7727	13513	4996	-1723	2739	-1010	C
ATOM	5299	CB	SER	F	336	43.217	-1.023	-63.178	1.00	73.61		C
ANISOU	5299	CB	SER	F	336	8375	14331	5263	-2063	3179	-1036	C
ATOM	5300	OG	SER	F	336	44.204	-1.967	-63.529	1.00	76.75		O
ANISOU	5300	OG	SER	F	336	8413	15033	5715	-1957	3464	-1374	O
ATOM	5301	C	SER	F	336	41.939	-2.968	-62.240	1.00	67.73		C
ANISOU	5301	C	SER	F	336	7568	13350	4817	-1369	2631	-1214	C
ATOM	5302	O	SER	F	336	42.344	-3.898	-61.517	1.00	66.67		O
ANISOU	5302	O	SER	F	336	7102	13257	4972	-1096	2562	-1428	O
ATOM	5303	N	SER	F	337	41.095	-3.128	-63.279	1.00	68.08		N
ANISOU	5303	N	SER	F	337	8018	13336	4512	-1379	2602	-1144	N
ATOM	5304	CA	SER	F	337	40.508	-4.417	-63.644	1.00	67.00		C
ANISOU	5304	CA	SER	F	337	7973	13170	4315	-1097	2486	-1327	C

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Figure 18 (continued)

ATOM	5305	CB	SER	F	337	39.336	-4.739	-62.720	1.00	62.53	C	
ANISOU	5305	CB	SER	F	337	7481	12315	3961	-875	2064	-1229	C
ATOM	5306	OG	SER	F	337	38.333	-3.755	-62.848	1.00	60.99	O	
ANISOU	5306	OG	SER	F	337	7612	11944	3619	-1016	1861	-934	O
ATOM	5307	C	SER	F	337	40.018	-4.501	-65.096	1.00	69.66	C	
ANISOU	5307	C	SER	F	337	8719	13566	4183	-1202	2583	-1314	C
ATOM	5308	O	SER	F	337	39.755	-3.477	-65.752	1.00	70.99	O	
ANISOU	5308	O	SER	F	337	9208	13715	4051	-1462	2625	-1078	O
ATOM	5309	N	ILE	F	338	39.898	-5.738	-65.580	1.00	70.19	N	
ANISOU	5309	N	ILE	F	338	8806	13686	4178	-994	2605	-1570	N
ATOM	5310	CA	ILE	F	338	39.155	-6.038	-66.796	1.00	71.90	C	
ANISOU	5310	CA	ILE	F	338	9439	13908	3972	-1029	2574	-1583	C
ATOM	5311	CB	ILE	F	338	40.002	-6.853	-67.853	1.00	76.35	C	
ANISOU	5311	CB	ILE	F	338	9987	14730	4290	-1023	2965	-1906	C
ATOM	5312	CG1	ILE	F	338	40.263	-8.298	-67.393	1.00	75.23	C	
ANISOU	5312	CG1	ILE	F	338	9575	14570	4439	-678	2951	-2246	C
ATOM	5313	CD1	ILE	F	338	40.863	-9.201	-68.486	1.00	80.18	C	
ANISOU	5313	CD1	ILE	F	338	10254	15401	4810	-623	3291	-2589	C
ATOM	5314	CG2	ILE	F	338	41.320	-6.112	-68.205	1.00	78.90	C	
ANISOU	5314	CG2	ILE	F	338	10131	15320	4527	-1288	3428	-1925	C
ATOM	5315	C	ILE	F	338	37.828	-6.734	-66.425	1.00	68.91	C	
ANISOU	5315	C	ILE	F	338	9200	13287	3697	-806	2150	-1576	C
ATOM	5316	O	ILE	F	338	37.757	-7.445	-65.419	1.00	66.10	O	
ANISOU	5316	O	ILE	F	338	8600	12808	3708	-581	2005	-1683	O
ATOM	5317	N	LYS	F	339	36.784	-6.500	-67.226	1.00	69.74	N	
ANISOU	5317	N	LYS	F	339	9700	13325	3473	-882	1949	-1445	N
ATOM	5318	CA	LYS	F	339	35.463	-7.116	-67.021	1.00	67.74	C	
ANISOU	5318	CA	LYS	F	339	9570	12878	3290	-720	1556	-1458	C
ATOM	5319	CB	LYS	F	339	34.333	-6.139	-67.371	1.00	67.59	C	
ANISOU	5319	CB	LYS	F	339	9864	12753	3064	-831	1250	-1160	C
ATOM	5320	CG	LYS	F	339	34.393	-4.798	-66.699	1.00	66.44	C	
ANISOU	5320	CG	LYS	F	339	9674	12510	3061	-940	1203	-852	C
ATOM	5321	CD	LYS	F	339	33.675	-3.720	-67.540	1.00	68.91	C	
ANISOU	5321	CD	LYS	F	339	10398	12778	3007	-1082	1029	-569	C
ATOM	5322	CE	LYS	F	339	34.362	-2.348	-67.345	1.00	70.79	C	
ANISOU	5322	CE	LYS	F	339	10682	12989	3227	-1292	1208	-308	C
ATOM	5323	NZ	LYS	F	339	34.350	-1.864	-65.889	1.00	67.41	N	
ANISOU	5323	NZ	LYS	F	339	9955	12387	3271	-1227	1105	-208	N
ATOM	5324	C	LYS	F	339	35.324	-8.349	-67.910	1.00	70.21	C	
ANISOU	5324	C	LYS	F	339	10033	13263	3382	-630	1607	-1759	C
ATOM	5325	O	LYS	F	339	35.364	-8.238	-69.132	1.00	73.21	O	
ANISOU	5325	O	LYS	F	339	10707	13787	3321	-763	1726	-1788	O
ATOM	5326	N	ARG	F	340	35.143	-9.514	-67.302	1.00	68.86	N	
ANISOU	5326	N	ARG	F	340	9700	12972	3492	-415	1515	-1980	N
ATOM	5327	CA	ARG	F	340	35.046	-10.755	-68.056	1.00	71.85	C	
ANISOU	5327	CA	ARG	F	340	10224	13375	3699	-321	1570	-2296	C
ATOM	5328	CB	ARG	F	340	36.226	-11.677	-67.715	1.00	72.59	C	
ANISOU	5328	CB	ARG	F	340	10046	13519	4016	-132	1871	-2586	C
ATOM	5329	CG	ARG	F	340	36.403	-12.842	-68.679	1.00	76.97	C	
ANISOU	5329	CG	ARG	F	340	10775	14131	4338	-46	2034	-2942	C
ATOM	5330	CD	ARG	F	340	37.468	-13.841	-68.233	1.00	78.54	C	
ANISOU	5330	CD	ARG	F	340	10696	14325	4818	215	2278	-3243	C
ATOM	5331	NE	ARG	F	340	37.621	-14.943	-69.196	1.00	86.31	N	
ANISOU	5331	NE	ARG	F	340	11880	15342	5571	307	2449	-3605	N
ATOM	5332	CZ	ARG	F	340	36.819	-16.011	-69.279	1.00	87.14	C	
ANISOU	5332	CZ	ARG	F	340	12201	15224	5684	409	2247	-3787	C
ATOM	5333	NH1	ARG	F	340	35.781	-16.154	-68.451	1.00	84.58	N	
ANISOU	5333	NH1	ARG	F	340	11903	14639	5593	422	1877	-3641	N
ATOM	5334	NH2	ARG	F	340	37.058	-16.949	-70.188	1.00	89.57	N	
ANISOU	5334	NH2	ARG	F	340	12702	15565	5765	482	2435	-4134	N
ATOM	5335	C	ARG	F	340	33.708	-11.429	-67.754	1.00	70.08	C	
ANISOU	5335	C	ARG	F	340	10105	12931	3592	-240	1188	-2333	C
ATOM	5336	O	ARG	F	340	33.361	-11.615	-66.587	1.00	67.34	O	
ANISOU	5336	O	ARG	F	340	9563	12392	3630	-132	1021	-2278	O
ATOM	5337	N	GLU	F	341	32.949	-11.763	-68.797	1.00	72.62	N	
ANISOU	5337	N	GLU	F	341	10737	13286	3568	-315	1050	-2429	N
ATOM	5338	CA	GLU	F	341	31.665	-12.460	-68.643	1.00	72.00	C	
ANISOU	5338	CA	GLU	F	341	10745	13030	3582	-280	699	-2511	C
ATOM	5339	CB	GLU	F	341	30.833	-12.346	-69.924	1.00	75.35	C	
ANISOU	5339	CB	GLU	F	341	11521	13561	3548	-419	499	-2531	C
ATOM	5340	CG	GLU	F	341	29.378	-12.802	-69.795	1.00	75.43	C	

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Figure 18 (continued)

ANISOU	5340	CG	GLU	F	341	11576	13430	3654	-432	82	-2580	C
ATOM	5341	CD	GLU	F	341	28.386	-11.646	-69.818	1.00	75.78		C
ANISOU	5341	CD	GLU	F	341	11656	13495	3643	-509	-266	-2273	C
ATOM	5342	OE1	GLU	F	341	27.661	-11.539	-70.835	1.00	78.56		O
ANISOU	5342	OE1	GLU	F	341	12266	13948	3635	-593	-508	-2290	O
ATOM	5343	OE2	GLU	F	341	28.329	-10.858	-68.835	1.00	72.03		O
ANISOU	5343	OE2	GLU	F	341	10963	12933	3474	-469	-311	-2029	O
ATOM	5344	C	GLU	F	341	31.866	-13.933	-68.254	1.00	72.08		C
ANISOU	5344	C	GLU	F	341	10682	12885	3819	-116	781	-2838	C
ATOM	5345	O	GLU	F	341	32.667	-14.650	-68.854	1.00	74.94		O
ANISOU	5345	O	GLU	F	341	11113	13324	4035	-49	1050	-3099	O
ATOM	5346	N	GLU	F	342	31.125	-14.370	-67.245	1.00	69.62		N
ANISOU	5346	N	GLU	F	342	10251	12340	3862	-54	560	-2823	N
ATOM	5347	CA	GLU	F	342	31.293	-15.693	-66.653	1.00	69.64		C
ANISOU	5347	CA	GLU	F	342	10208	12126	4127	103	619	-3074	C
ATOM	5348	CB	GLU	F	342	32.322	-15.633	-65.514	1.00	67.97		C
ANISOU	5348	CB	GLU	F	342	9720	11849	4259	282	797	-3004	C
ATOM	5349	CG	GLU	F	342	33.695	-16.187	-65.890	1.00	72.52		C
ANISOU	5349	CG	GLU	F	342	10240	12529	4785	450	1138	-3236	C
ATOM	5350	CD	GLU	F	342	34.866	-15.386	-65.320	1.00	73.01		C
ANISOU	5350	CD	GLU	F	342	9998	12742	5001	520	1337	-3091	C
ATOM	5351	OE1	GLU	F	342	35.691	-14.915	-66.127	1.00	76.14		O
ANISOU	5351	OE1	GLU	F	342	10366	13400	5165	460	1597	-3130	O
ATOM	5352	OE2	GLU	F	342	34.977	-15.234	-64.084	1.00	71.41		O
ANISOU	5352	OE2	GLU	F	342	9591	12405	5135	615	1243	-2952	O
ATOM	5353	C	GLU	F	342	29.962	-16.216	-66.134	1.00	67.95		C
ANISOU	5353	C	GLU	F	342	10035	11683	4100	41	312	-3093	C
ATOM	5354	O	GLU	F	342	29.181	-15.466	-65.550	1.00	65.42		O
ANISOU	5354	O	GLU	F	342	9603	11333	3922	-40	100	-2859	O
ATOM	5355	N	GLU	F	343	29.706	-17.498	-66.380	1.00	69.90		N
ANISOU	5355	N	GLU	F	343	10445	11769	4346	66	308	-3389	N
ATOM	5356	CA	GLU	F	343	28.559	-18.194	-65.805	1.00	69.18		C
ANISOU	5356	CA	GLU	F	343	10385	11429	4472	-16	79	-3457	C
ATOM	5357	CB	GLU	F	343	28.115	-19.373	-66.685	1.00	72.48		C
ANISOU	5357	CB	GLU	F	343	11077	11759	4703	-93	38	-3804	C
ATOM	5358	CG	GLU	F	343	26.910	-19.055	-67.631	1.00	74.73		C
ANISOU	5358	CG	GLU	F	343	11479	12200	4715	-329	-260	-3829	C
ATOM	5359	CD	GLU	F	343	26.608	-20.312	-68.539	1.00	78.55		C
ANISOU	5359	CD	GLU	F	343	12260	12593	4990	-414	-279	-4224	C
ATOM	5360	OE1	GLU	F	343	26.210	-21.396	-67.996	1.00	78.42		O
ANISOU	5360	OE1	GLU	F	343	12303	12280	5215	-445	-298	-4412	O
ATOM	5361	OE2	GLU	F	343	26.759	-20.210	-69.802	1.00	81.28		O
ANISOU	5361	OE2	GLU	F	343	12817	13155	4912	-468	-271	-4349	O
ATOM	5362	C	GLU	F	343	28.962	-18.700	-64.434	1.00	66.86		C
ANISOU	5362	C	GLU	F	343	9963	10869	4573	140	169	-3421	C
ATOM	5363	O	GLU	F	343	30.023	-19.295	-64.287	1.00	68.01		O
ANISOU	5363	O	GLU	F	343	10119	10944	4777	342	387	-3549	O
ATOM	5364	N	VAL	F	344	28.126	-18.450	-63.434	1.00	64.55		N
ANISOU	5364	N	VAL	F	344	9551	10437	4540	58	0	-3253	N
ATOM	5365	CA	VAL	F	344	28.351	-18.977	-62.081	1.00	62.97		C
ANISOU	5365	CA	VAL	F	344	9292	9954	4679	175	57	-3208	C
ATOM	5366	CB	VAL	F	344	28.623	-17.848	-61.021	1.00	59.59		C
ANISOU	5366	CB	VAL	F	344	8616	9585	4440	225	51	-2890	C
ATOM	5367	CG1	VAL	F	344	29.883	-17.084	-61.375	1.00	59.63		C
ANISOU	5367	CG1	VAL	F	344	8500	9834	4323	357	219	-2806	C
ATOM	5368	CG2	VAL	F	344	27.435	-16.885	-60.878	1.00	57.61		C
ANISOU	5368	CG2	VAL	F	344	8250	9422	4217	29	-159	-2700	C
ATOM	5369	C	VAL	F	344	27.175	-19.874	-61.683	1.00	63.62		C
ANISOU	5369	C	VAL	F	344	9499	9764	4910	11	-81	-3328	C
ATOM	5370	O	VAL	F	344	26.167	-19.933	-62.404	1.00	65.05		O
ANISOU	5370	O	VAL	F	344	9736	10016	4963	-196	-243	-3431	O
ATOM	5371	N	LEU	F	345	27.309	-20.581	-60.561	1.00	62.81		N
ANISOU	5371	N	LEU	F	345	9450	9352	5063	92	-20	-3322	N
ATOM	5372	CA	LEU	F	345	26.254	-21.491	-60.114	1.00	64.00		C
ANISOU	5372	CA	LEU	F	345	9749	9208	5359	-98	-99	-3437	C
ATOM	5373	CB	LEU	F	345	26.623	-22.938	-60.433	1.00	66.98		C
ANISOU	5373	CB	LEU	F	345	10440	9302	5705	-18	4	-3726	C
ATOM	5374	CG	LEU	F	345	25.588	-24.015	-60.112	1.00	69.00		C
ANISOU	5374	CG	LEU	F	345	10916	9216	6083	-256	-48	-3887	C
ATOM	5375	CD1	LEU	F	345	25.216	-24.820	-61.343	1.00	72.57		C
ANISOU	5375	CD1	LEU	F	345	11584	9653	6334	-394	-85	-4220	C

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Figure 18 (continued)

ATOM	5376	CD2	LEU	F	345	26.113	-24.915	-59.016	1.00	69.88	C	
ANISOU	5376	CD2	LEU	F	345	11247	8912	6394	-92	72	-3866	C
ATOM	5377	C	LEU	F	345	25.911	-21.302	-58.632	1.00	61.95	C	
ANISOU	5377	C	LEU	F	345	9405	8757	5376	-129	-105	-3225	C
ATOM	5378	O	LEU	F	345	26.775	-21.464	-57.754	1.00	61.11	O	
ANISOU	5378	O	LEU	F	345	9333	8496	5389	83	-3	-3125	O
ATOM	5379	N	THR	F	346	24.649	-20.944	-58.369	1.00	61.45	N	
ANISOU	5379	N	THR	F	346	9224	8720	5404	-389	-230	-3169	N
ATOM	5380	CA	THR	F	346	24.186	-20.634	-57.011	1.00	59.61	C	
ANISOU	5380	CA	THR	F	346	8895	8347	5406	-459	-215	-2976	C
ATOM	5381	CB	THR	F	346	22.830	-19.857	-56.990	1.00	59.00	C	
ANISOU	5381	CB	THR	F	346	8570	8441	5406	-711	-358	-2918	C
ATOM	5382	OG1	THR	F	346	21.739	-20.769	-57.159	1.00	61.25	O	
ANISOU	5382	OG1	THR	F	346	8940	8578	5755	-989	-400	-3137	O
ATOM	5383	CG2	THR	F	346	22.775	-18.783	-58.068	1.00	58.59	C	
ANISOU	5383	CG2	THR	F	346	8329	8761	5170	-678	-507	-2868	C
ATOM	5384	C	THR	F	346	24.058	-21.898	-56.162	1.00	61.14	C	
ANISOU	5384	C	THR	F	346	9368	8119	5743	-514	-112	-3065	C
ATOM	5385	O	THR	F	346	24.144	-23.020	-56.681	1.00	64.20	O	
ANISOU	5385	O	THR	F	346	10015	8309	6069	-530	-77	-3293	O
ATOM	5386	N	GLY	F	347	23.851	-21.703	-54.861	1.00	59.58	N	
ANISOU	5386	N	GLY	F	347	9155	7768	5717	-548	-58	-2884	N
ATOM	5387	CA	GLY	F	347	23.695	-22.800	-53.910	1.00	61.10	C	
ANISOU	5387	CA	GLY	F	347	9656	7535	6025	-620	47	-2913	C
ATOM	5388	C	GLY	F	347	22.384	-23.558	-54.037	1.00	63.56	C	
ANISOU	5388	C	GLY	F	347	10062	7682	6405	-1000	56	-3100	C
ATOM	5389	O	GLY	F	347	22.088	-24.419	-53.209	1.00	65.10	O	
ANISOU	5389	O	GLY	F	347	10531	7510	6694	-1136	166	-3112	O
ATOM	5390	N	ASN	F	348	21.594	-23.215	-55.055	1.00	64.06	N	
ANISOU	5390	N	ASN	F	348	9904	8019	6416	-1185	-68	-3241	N
ATOM	5391	CA	ASN	F	348	20.382	-23.946	-55.409	1.00	66.83	C	
ANISOU	5391	CA	ASN	F	348	10293	8274	6823	-1558	-97	-3477	C
ATOM	5392	CB	ASN	F	348	19.142	-23.043	-55.278	1.00	66.16	C	
ANISOU	5392	CB	ASN	F	348	9806	8464	6867	-1802	-190	-3437	C
ATOM	5393	CG	ASN	F	348	17.840	-23.839	-55.092	1.00	69.65	C	
ANISOU	5393	CG	ASN	F	348	10255	8745	7462	-2237	-149	-3647	C
ATOM	5394	OD1	ASN	F	348	17.773	-24.763	-54.278	1.00	72.02	O	
ANISOU	5394	OD1	ASN	F	348	10853	8662	7850	-2387	37	-3669	O
ATOM	5395	ND2	ASN	F	348	16.799	-23.468	-55.839	1.00	69.91	N	
ANISOU	5395	ND2	ASN	F	348	9964	9072	7527	-2447	-330	-3802	N
ATOM	5396	C	ASN	F	348	20.544	-24.474	-56.834	1.00	69.06	C	
ANISOU	5396	C	ASN	F	348	10684	8640	6915	-1547	-200	-3738	C
ATOM	5397	O	ASN	F	348	19.582	-24.911	-57.473	1.00	71.54	O	
ANISOU	5397	O	ASN	F	348	10974	8984	7225	-1844	-293	-3970	O
ATOM	5398	N	LEU	F	349	21.791	-24.430	-57.308	1.00	68.36	N	
ANISOU	5398	N	LEU	F	349	10708	8599	6666	-1207	-176	-3713	N
ATOM	5399	CA	LEU	F	349	22.186	-24.875	-58.655	1.00	70.41	C	
ANISOU	5399	CA	LEU	F	349	11104	8949	6701	-1136	-228	-3954	C
ATOM	5400	CB	LEU	F	349	22.034	-26.402	-58.833	1.00	74.30	C	
ANISOU	5400	CB	LEU	F	349	11995	9037	7197	-1269	-153	-4240	C
ATOM	5401	CG	LEU	F	349	23.212	-27.314	-58.448	1.00	75.35	C	
ANISOU	5401	CG	LEU	F	349	12494	8800	7338	-960	11	-4265	C
ATOM	5402	CD1	LEU	F	349	23.480	-27.324	-56.942	1.00	73.43	C	
ANISOU	5402	CD1	LEU	F	349	12321	8288	7290	-860	111	-4005	C
ATOM	5403	CD2	LEU	F	349	22.971	-28.730	-58.948	1.00	79.27	C	
ANISOU	5403	CD2	LEU	F	349	13395	8930	7794	-1104	54	-4593	C
ATOM	5404	C	LEU	F	349	21.494	-24.087	-59.774	1.00	70.46	C	
ANISOU	5404	C	LEU	F	349	10850	9370	6551	-1276	-435	-4021	C
ATOM	5405	O	LEU	F	349	21.080	-24.656	-60.785	1.00	73.71	O	
ANISOU	5405	O	LEU	F	349	11378	9813	6815	-1431	-529	-4288	O
ATOM	5406	N	GLN	F	350	21.378	-22.778	-59.579	1.00	67.14	N	
ANISOU	5406	N	GLN	F	350	10108	9250	6152	-1213	-519	-3778	N
ATOM	5407	CA	GLN	F	350	20.865	-21.888	-60.610	1.00	67.20	C	
ANISOU	5407	CA	GLN	F	350	9898	9645	5989	-1271	-738	-3784	C
ATOM	5408	CB	GLN	F	350	19.977	-20.807	-59.982	1.00	65.17	C	
ANISOU	5408	CB	GLN	F	350	9286	9560	5916	-1363	-855	-3582	C
ATOM	5409	CG	GLN	F	350	19.282	-19.897	-60.986	1.00	66.25	C	
ANISOU	5409	CG	GLN	F	350	9203	10065	5904	-1411	-1134	-3582	C
ATOM	5410	CD	GLN	F	350	18.266	-18.962	-60.350	1.00	65.23	C	
ANISOU	5410	CD	GLN	F	350	8713	10069	6003	-1493	-1259	-3436	C
ATOM	5411	OE1	GLN	F	350	18.433	-18.500	-59.215	1.00	63.41	O	

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Figure 18 (continued)

ANISOU	5411	OE1	GLN	F	350	8380	9742	5972	-1419	-1115	-3235	O
ATOM	5412	NE2	GLN	F	350	17.205	-18.670	-61.091	1.00	67.82		N
ANISOU	5412	NE2	GLN	F	350	8845	10626	6297	-1630	-1540	-3552	N
ATOM	5413	C	GLN	F	350	22.031	-21.267	-61.393	1.00	66.19		C
ANISOU	5413	C	GLN	F	350	9811	9742	5597	-994	-707	-3697	C
ATOM	5414	O	GLN	F	350	23.053	-20.903	-60.811	1.00	63.73		O
ANISOU	5414	O	GLN	F	350	9487	9398	5327	-760	-551	-3513	O
ATOM	5415	N	THR	F	351	21.873	-21.162	-62.711	1.00	68.30		N
ANISOU	5415	N	THR	F	351	10130	10239	5581	-1042	-850	-3841	N
ATOM	5416	CA	THR	F	351	22.896	-20.578	-63.589	1.00	68.33		C
ANISOU	5416	CA	THR	F	351	10199	10477	5286	-837	-796	-3781	C
ATOM	5417	CB	THR	F	351	22.933	-21.313	-64.957	1.00	72.47		C
ANISOU	5417	CB	THR	F	351	10986	11065	5483	-903	-838	-4090	C
ATOM	5418	OG1	THR	F	351	23.426	-22.645	-64.764	1.00	74.33		O
ANISOU	5418	OG1	THR	F	351	11477	10978	5788	-858	-645	-4327	O
ATOM	5419	CG2	THR	F	351	23.822	-20.584	-65.965	1.00	72.87		C
ANISOU	5419	CG2	THR	F	351	11102	11406	5178	-749	-781	-4024	C
ATOM	5420	C	THR	F	351	22.726	-19.054	-63.781	1.00	66.46		C
ANISOU	5420	C	THR	F	351	9733	10556	4964	-796	-942	-3503	C
ATOM	5421	O	THR	F	351	21.670	-18.577	-64.223	1.00	67.46		O
ANISOU	5421	O	THR	F	351	9740	10849	5042	-941	-1208	-3500	O
ATOM	5422	N	LEU	F	352	23.774	-18.303	-63.438	1.00	63.82		N
ANISOU	5422	N	LEU	F	352	9338	10288	4622	-594	-780	-3279	N
ATOM	5423	CA	LEU	F	352	23.783	-16.849	-63.611	1.00	62.08		C
ANISOU	5423	CA	LEU	F	352	8962	10317	4309	-548	-879	-3005	C
ATOM	5424	CB	LEU	F	352	23.883	-16.122	-62.257	1.00	58.40		C
ANISOU	5424	CB	LEU	F	352	8278	9763	4150	-474	-815	-2744	C
ATOM	5425	CG	LEU	F	352	22.734	-16.210	-61.252	1.00	57.71		C
ANISOU	5425	CG	LEU	F	352	8017	9528	4381	-599	-923	-2723	C
ATOM	5426	CD1	LEU	F	352	23.172	-15.633	-59.924	1.00	54.58		C
ANISOU	5426	CD1	LEU	F	352	7487	9024	4226	-496	-788	-2494	C
ATOM	5427	CD2	LEU	F	352	21.468	-15.522	-61.746	1.00	59.33		C
ANISOU	5427	CD2	LEU	F	352	8065	9916	4561	-720	-1217	-2699	C
ATOM	5428	C	LEU	F	352	24.939	-16.408	-64.496	1.00	62.47		C
ANISOU	5428	C	LEU	F	352	9140	10557	4038	-426	-732	-2963	C
ATOM	5429	O	LEU	F	352	26.059	-16.914	-64.364	1.00	62.17		O
ANISOU	5429	O	LEU	F	352	9174	10448	4001	-291	-475	-3039	O
ATOM	5430	N	LYS	F	353	24.665	-15.457	-65.384	1.00	63.27		N
ANISOU	5430	N	LYS	F	353	9272	10900	3869	-470	-892	-2843	N
ATOM	5431	CA	LYS	F	353	25.722	-14.814	-66.150	1.00	64.14		C
ANISOU	5431	CA	LYS	F	353	9502	11201	3667	-397	-727	-2748	C
ATOM	5432	CB	LYS	F	353	25.257	-14.567	-67.589	1.00	67.60		C
ANISOU	5432	CB	LYS	F	353	10164	11852	3670	-499	-919	-2806	C
ATOM	5433	CG	LYS	F	353	26.308	-14.823	-68.681	1.00	70.46		C
ANISOU	5433	CG	LYS	F	353	10783	12357	3632	-480	-672	-2941	C
ATOM	5434	CD	LYS	F	353	25.734	-14.438	-70.067	1.00	74.26		C
ANISOU	5434	CD	LYS	F	353	11530	13051	3636	-595	-907	-2954	C
ATOM	5435	CE	LYS	F	353	26.582	-14.974	-71.227	1.00	78.07		C
ANISOU	5435	CE	LYS	F	353	12316	13659	3685	-614	-662	-3177	C
ATOM	5436	NZ	LYS	F	353	25.986	-14.635	-72.572	1.00	81.80		N
ANISOU	5436	NZ	LYS	F	353	13103	14333	3646	-737	-916	-3190	N
ATOM	5437	C	LYS	F	353	26.085	-13.500	-65.445	1.00	61.18		C
ANISOU	5437	C	LYS	F	353	8950	10869	3425	-333	-686	-2411	C
ATOM	5438	O	LYS	F	353	25.259	-12.592	-65.346	1.00	60.54		O
ANISOU	5438	O	LYS	F	353	8789	10834	3380	-374	-920	-2221	O
ATOM	5439	N	ILE	F	354	27.308	-13.410	-64.930	1.00	59.64		N
ANISOU	5439	N	ILE	F	354	8685	10652	3322	-226	-399	-2355	N
ATOM	5440	CA	ILE	F	354	27.766	-12.181	-64.259	1.00	57.21		C
ANISOU	5440	CA	ILE	F	354	8224	10380	3133	-191	-340	-2061	C
ATOM	5441	CB	ILE	F	354	27.922	-12.336	-62.706	1.00	53.63		C
ANISOU	5441	CB	ILE	F	354	7553	9725	3099	-105	-280	-1999	C
ATOM	5442	CG1	ILE	F	354	29.041	-13.330	-62.353	1.00	54.06		C
ANISOU	5442	CG1	ILE	F	354	7590	9699	3250	27	-30	-2177	C
ATOM	5443	CD1	ILE	F	354	29.514	-13.275	-60.917	1.00	51.17		C
ANISOU	5443	CD1	ILE	F	354	7045	9181	3215	133	39	-2074	C
ATOM	5444	CG2	ILE	F	354	26.599	-12.724	-62.050	1.00	51.74		C
ANISOU	5444	CG2	ILE	F	354	7246	9318	3094	-161	-499	-2033	C
ATOM	5445	C	ILE	F	354	29.064	-11.642	-64.869	1.00	58.84		C
ANISOU	5445	C	ILE	F	354	8491	10766	3100	-178	-75	-2003	C
ATOM	5446	O	ILE	F	354	29.891	-12.409	-65.373	1.00	60.22		O
ANISOU	5446	O	ILE	F	354	8735	10998	3147	-131	148	-2215	O

Figure 18 (continued)

ATOM	5447	N	ARG	F	355	29.226	-10.318	-64.815	1.00	58.63	N	
ANISOU	5447	N	ARG	F	355	8438	10819	3021	-229	-85	-1728	N
ATOM	5448	CA	ARG	F	355	30.437	-9.658	-65.305	1.00	60.49	C	
ANISOU	5448	CA	ARG	F	355	8713	11221	3050	-274	189	-1647	C
ATOM	5449	CB	ARG	F	355	30.117	-8.263	-65.852	1.00	61.44	C	
ANISOU	5449	CB	ARG	F	355	8992	11418	2933	-394	74	-1361	C
ATOM	5450	CG	ARG	F	355	31.245	-7.634	-66.651	1.00	64.96	C	
ANISOU	5450	CG	ARG	F	355	9569	12047	3066	-511	373	-1292	C
ATOM	5451	CD	ARG	F	355	30.886	-6.237	-67.160	1.00	66.33	C	
ANISOU	5451	CD	ARG	F	355	9972	12237	2992	-636	245	-979	C
ATOM	5452	NE	ARG	F	355	30.037	-6.239	-68.360	1.00	71.70	N	
ANISOU	5452	NE	ARG	F	355	10987	12983	3272	-678	11	-971	N
ATOM	5453	CZ	ARG	F	355	29.472	-5.154	-68.895	1.00	73.47	C	
ANISOU	5453	CZ	ARG	F	355	11472	13191	3252	-738	-203	-704	C
ATOM	5454	NH1	ARG	F	355	29.634	-3.953	-68.346	1.00	73.36	N	
ANISOU	5454	NH1	ARG	F	355	11440	13073	3362	-773	-196	-423	N
ATOM	5455	NH2	ARG	F	355	28.736	-5.268	-69.988	1.00	77.30	N	
ANISOU	5455	NH2	ARG	F	355	12262	13752	3359	-754	-445	-722	N
ATOM	5456	C	ARG	F	355	31.472	-9.601	-64.187	1.00	57.93	C	
ANISOU	5456	C	ARG	F	355	8122	10848	3041	-191	403	-1623	C
ATOM	5457	O	ARG	F	355	31.365	-8.802	-63.252	1.00	55.72	O	
ANISOU	5457	O	ARG	F	355	7705	10480	2987	-196	329	-1419	O
ATOM	5458	N	VAL	F	356	32.454	-10.488	-64.286	1.00	59.00	N	
ANISOU	5458	N	VAL	F	356	8187	11038	3193	-99	649	-1853	N
ATOM	5459	CA	VAL	F	356	33.472	-10.669	-63.254	1.00	57.54	C	
ANISOU	5459	CA	VAL	F	356	7731	10818	3314	26	815	-1887	C
ATOM	5460	CB	VAL	F	356	34.034	-12.124	-63.294	1.00	59.07	C	
ANISOU	5460	CB	VAL	F	356	7892	10969	3584	215	953	-2208	C
ATOM	5461	CG1	VAL	F	356	35.263	-12.285	-62.413	1.00	58.90	C	
ANISOU	5461	CG1	VAL	F	356	7583	10962	3833	377	1122	-2261	C
ATOM	5462	CG2	VAL	F	356	32.959	-13.120	-62.889	1.00	58.12	C	
ANISOU	5462	CG2	VAL	F	356	7884	10597	3601	282	725	-2309	C
ATOM	5463	C	VAL	F	356	34.594	-9.647	-63.446	1.00	58.53	C	
ANISOU	5463	C	VAL	F	356	7742	11144	3352	-77	1059	-1769	C
ATOM	5464	O	VAL	F	356	35.136	-9.510	-64.553	1.00	61.27	O	
ANISOU	5464	O	VAL	F	356	8201	11690	3390	-175	1273	-1838	O
ATOM	5465	N	HIS	F	357	34.942	-8.926	-62.380	1.00	56.02	N	
ANISOU	5465	N	HIS	F	357	7219	10776	3291	-82	1041	-1603	N
ATOM	5466	CA	HIS	F	357	36.060	-7.989	-62.470	1.00	57.30	C	
ANISOU	5466	CA	HIS	F	357	7240	11120	3411	-212	1281	-1516	C
ATOM	5467	CB	HIS	F	357	35.754	-6.682	-61.737	1.00	55.20	C	
ANISOU	5467	CB	HIS	F	357	6955	10760	3259	-343	1148	-1222	C
ATOM	5468	CG	HIS	F	357	34.762	-5.810	-62.460	1.00	56.04	C	
ANISOU	5468	CG	HIS	F	357	7368	10819	3105	-492	995	-1005	C
ATOM	5469	ND1	HIS	F	357	35.108	-4.564	-62.960	1.00	57.20	N	
ANISOU	5469	ND1	HIS	F	357	7641	11040	3052	-709	1109	-802	N
ATOM	5470	CE1	HIS	F	357	34.034	-4.029	-63.539	1.00	57.73	C	
ANISOU	5470	CE1	HIS	F	357	8005	11020	2910	-757	890	-629	C
ATOM	5471	NE2	HIS	F	357	33.002	-4.895	-63.453	1.00	56.73	N	
ANISOU	5471	NE2	HIS	F	357	7904	10798	2853	-597	644	-736	N
ATOM	5472	CD2	HIS	F	357	33.429	-6.007	-62.764	1.00	55.77	C	
ANISOU	5472	CD2	HIS	F	357	7539	10666	2984	-449	720	-964	C
ATOM	5473	C	HIS	F	357	37.379	-8.623	-62.026	1.00	57.96	C	
ANISOU	5473	C	HIS	F	357	7008	11315	3698	-68	1502	-1730	C
ATOM	5474	O	HIS	F	357	37.441	-9.312	-61.010	1.00	56.64	O	
ANISOU	5474	O	HIS	F	357	6685	11010	3825	136	1387	-1810	O
ATOM	5475	N	GLU	F	358	38.424	-8.396	-62.813	1.00	60.88	N	
ANISOU	5475	N	GLU	F	358	7293	11938	3900	-169	1821	-1829	N
ATOM	5476	CA	GLU	F	358	39.720	-9.030	-62.584	1.00	62.68	C	
ANISOU	5476	CA	GLU	F	358	7182	12324	4310	-13	2054	-2080	C
ATOM	5477	CB	GLU	F	358	40.114	-9.904	-63.775	1.00	66.22	C	
ANISOU	5477	CB	GLU	F	358	7711	12931	4519	53	2310	-2364	C
ATOM	5478	CG	GLU	F	358	39.357	-11.213	-63.855	1.00	66.22	C	
ANISOU	5478	CG	GLU	F	358	7904	12729	4529	286	2137	-2540	C
ATOM	5479	CD	GLU	F	358	39.723	-12.027	-65.081	1.00	70.08	C	
ANISOU	5479	CD	GLU	F	358	8515	13362	4752	337	2398	-2837	C
ATOM	5480	OE1	GLU	F	358	40.884	-11.947	-65.532	1.00	73.92	O	
ANISOU	5480	OE1	GLU	F	358	8787	14108	5193	324	2746	-3000	O
ATOM	5481	OE2	GLU	F	358	38.844	-12.747	-65.596	1.00	70.92	O	
ANISOU	5481	OE2	GLU	F	358	8924	13330	4693	377	2265	-2927	O
ATOM	5482	C	GLU	F	358	40.822	-8.024	-62.297	1.00	63.33	C	

Figure 18 (continued)

ANISOU	5482	C	GLU	F	358	6971	12606	4485	-186	2258	-2010	C
ATOM	5483	O	GLU	F	358	41.201	-7.245	-63.165	1.00	65.86		O
ANISOU	5483	O	GLU	F	358	7365	13110	4550	-452	2506	-1950	O
ATOM	5484	N	GLY	F	359	41.349	-8.079	-61.081	1.00	61.35		N
ANISOU	5484	N	GLY	F	359	6404	12317	4590	-48	2153	-2027	N
ATOM	5485	CA	GLY	F	359	42.408	-7.178	-60.650	1.00	62.41		C
ANISOU	5485	CA	GLY	F	359	6211	12637	4866	-213	2303	-1990	C
ATOM	5486	C	GLY	F	359	42.221	-6.774	-59.198	1.00	59.15		C
ANISOU	5486	C	GLY	F	359	5681	12045	4748	-161	2011	-1834	C
ATOM	5487	O	GLY	F	359	41.145	-6.954	-58.626	1.00	55.46		O
ANISOU	5487	O	GLY	F	359	5438	11308	4326	-64	1725	-1700	O
ATOM	5488	N	TYR	F	360	43.272	-6.231	-58.597	1.00	60.49		N
ANISOU	5488	N	TYR	F	360	5491	12378	5116	-241	2091	-1868	N
ATOM	5489	CA	TYR	F	360	43.140	-5.679	-57.274	1.00	58.50		C
ANISOU	5489	CA	TYR	F	360	5160	11974	5092	-248	1830	-1716	C
ATOM	5490	CB	TYR	F	360	44.441	-5.768	-56.483	1.00	61.17		C
ANISOU	5490	CB	TYR	F	360	5016	12510	5718	-156	1845	-1890	C
ATOM	5491	CG	TYR	F	360	44.405	-5.033	-55.139	1.00	60.37		C
ANISOU	5491	CG	TYR	F	360	4845	12280	5811	-223	1588	-1737	C
ATOM	5492	CD1	TYR	F	360	44.129	-5.711	-53.941	1.00	57.83		C
ANISOU	5492	CD1	TYR	F	360	4525	11766	5682	75	1267	-1742	C
ATOM	5493	CE1	TYR	F	360	44.117	-5.040	-52.728	1.00	55.89		C
ANISOU	5493	CE1	TYR	F	360	4244	11416	5577	3	1045	-1619	C
ATOM	5494	CZ	TYR	F	360	44.376	-3.669	-52.698	1.00	57.61		C
ANISOU	5494	CZ	TYR	F	360	4417	11704	5768	-369	1137	-1499	C
ATOM	5495	OH	TYR	F	360	44.375	-2.958	-51.515	1.00	56.33		O
ANISOU	5495	OH	TYR	F	360	4240	11432	5729	-460	926	-1398	O
ATOM	5496	CE2	TYR	F	360	44.640	-2.979	-53.864	1.00	60.25		C
ANISOU	5496	CE2	TYR	F	360	4762	12201	5929	-672	1451	-1478	C
ATOM	5497	CD2	TYR	F	360	44.645	-3.656	-55.072	1.00	61.36		C
ANISOU	5497	CD2	TYR	F	360	4949	12461	5906	-601	1675	-1589	C
ATOM	5498	C	TYR	F	360	42.675	-4.246	-57.382	1.00	57.20		C
ANISOU	5498	C	TYR	F	360	5212	11733	4789	-608	1840	-1441	C
ATOM	5499	O	TYR	F	360	43.193	-3.472	-58.181	1.00	59.56		O
ANISOU	5499	O	TYR	F	360	5502	12205	4923	-901	2110	-1412	O
ATOM	5500	N	GLU	F	361	41.695	-3.909	-56.553	1.00	53.97		N
ANISOU	5500	N	GLU	F	361	5014	11047	4446	-581	1556	-1245	N
ATOM	5501	CA	GLU	F	361	41.110	-2.579	-56.522	1.00	52.98		C
ANISOU	5501	CA	GLU	F	361	5129	10781	4221	-857	1514	-981	C
ATOM	5502	CB	GLU	F	361	39.809	-2.561	-57.329	1.00	51.91		C
ANISOU	5502	CB	GLU	F	361	5403	10479	3840	-858	1435	-834	C
ATOM	5503	CG	GLU	F	361	40.021	-2.601	-58.835	1.00	54.36		C
ANISOU	5503	CG	GLU	F	361	5852	10968	3836	-989	1691	-875	C
ATOM	5504	CD	GLU	F	361	38.780	-3.055	-59.586	1.00	54.79		C
ANISOU	5504	CD	GLU	F	361	6252	10895	3671	-887	1552	-820	C
ATOM	5505	OE1	GLU	F	361	38.124	-4.047	-59.150	1.00	52.19		O
ANISOU	5505	OE1	GLU	F	361	5923	10445	3464	-635	1355	-913	O
ATOM	5506	OE2	GLU	F	361	38.474	-2.410	-60.614	1.00	54.98		O
ANISOU	5506	OE2	GLU	F	361	6559	10938	3391	-1074	1633	-684	O
ATOM	5507	C	GLU	F	361	40.862	-2.085	-55.099	1.00	50.53		C
ANISOU	5507	C	GLU	F	361	4782	10279	4137	-837	1267	-874	C
ATOM	5508	O	GLU	F	361	40.743	-2.868	-54.158	1.00	48.99		O
ANISOU	5508	O	GLU	F	361	4492	9997	4125	-585	1074	-955	O
ATOM	5509	N	GLU	F	362	40.781	-0.769	-54.967	1.00	50.77		N
ANISOU	5509	N	GLU	F	362	4930	10227	4132	-1111	1284	-690	N
ATOM	5510	CA	GLU	F	362	40.569	-0.116	-53.696	1.00	49.49		C
ANISOU	5510	CA	GLU	F	362	4773	9883	4149	-1141	1086	-593	C
ATOM	5511	CB	GLU	F	362	41.853	0.602	-53.290	1.00	52.22		C
ANISOU	5511	CB	GLU	F	362	4827	10402	4614	-1376	1204	-662	C
ATOM	5512	CG	GLU	F	362	42.289	0.516	-51.833	1.00	53.76		C
ANISOU	5512	CG	GLU	F	362	4795	10573	5058	-1278	995	-745	C
ATOM	5513	CD	GLU	F	362	43.791	0.759	-51.700	1.00	59.82		C
ANISOU	5513	CD	GLU	F	362	5136	11637	5954	-1447	1128	-920	C
ATOM	5514	OE1	GLU	F	362	44.203	1.943	-51.674	1.00	63.47		O
ANISOU	5514	OE1	GLU	F	362	5597	12108	6413	-1798	1232	-851	O
ATOM	5515	OE2	GLU	F	362	44.566	-0.232	-51.658	1.00	61.55		O
ANISOU	5515	OE2	GLU	F	362	5018	12080	6288	-1231	1134	-1137	O
ATOM	5516	C	GLU	F	362	39.471	0.903	-53.950	1.00	47.93		C
ANISOU	5516	C	GLU	F	362	4959	9439	3815	-1279	1021	-345	C
ATOM	5517	O	GLU	F	362	39.619	1.764	-54.816	1.00	50.08		O
ANISOU	5517	O	GLU	F	362	5385	9735	3909	-1529	1187	-230	O

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Figure 18 (continued)

ATOM	5518	N	PHE	F	363	38.374	0.793	-53.206	1.00	44.53		N
ANISOU	5518	N	PHE	F	363	4688	8767	3465	-1111	788	-267	N
ATOM	5519	CA	PHE	F	363	37.236	1.684	-53.350	1.00	43.24		C
ANISOU	5519	CA	PHE	F	363	4850	8361	3218	-1169	690	-58	C
ATOM	5520	CB	PHE	F	363	35.981	0.878	-53.683	1.00	40.67		C
ANISOU	5520	CB	PHE	F	363	4673	7941	2838	-939	548	-53	C
ATOM	5521	CG	PHE	F	363	36.051	0.171	-54.979	1.00	40.68		C
ANISOU	5521	CG	PHE	F	363	4709	8111	2635	-910	655	-120	C
ATOM	5522	CD1	PHE	F	363	35.670	0.807	-56.150	1.00	41.53		C
ANISOU	5522	CD1	PHE	F	363	5074	8214	2492	-1035	704	21	C
ATOM	5523	CE1	PHE	F	363	35.734	0.141	-57.373	1.00	42.89		C
ANISOU	5523	CE1	PHE	F	363	5312	8550	2433	-1019	806	-55	C
ATOM	5524	CZ	PHE	F	363	36.189	-1.158	-57.422	1.00	42.89		C
ANISOU	5524	CZ	PHE	F	363	5110	8707	2481	-871	874	-284	C
ATOM	5525	CE2	PHE	F	363	36.573	-1.800	-56.244	1.00	41.85		C
ANISOU	5525	CE2	PHE	F	363	4721	8557	2623	-723	816	-416	C
ATOM	5526	CD2	PHE	F	363	36.503	-1.134	-55.038	1.00	39.67		C
ANISOU	5526	CD2	PHE	F	363	4392	8132	2547	-749	702	-327	C
ATOM	5527	C	PHE	F	363	36.925	2.473	-52.094	1.00	42.77		C
ANISOU	5527	C	PHE	F	363	4840	8086	3327	-1199	550	18	C
ATOM	5528	O	PHE	F	363	37.135	2.007	-50.973	1.00	41.83		O
ANISOU	5528	O	PHE	F	363	4561	7954	3377	-1087	450	-85	O
ATOM	5529	N	THR	F	364	36.389	3.667	-52.305	1.00	43.89		N
ANISOU	5529	N	THR	F	364	5240	8037	3400	-1337	537	201	N
ATOM	5530	CA	THR	F	364	35.644	4.393	-51.289	1.00	42.92		C
ANISOU	5530	CA	THR	F	364	5254	7647	3406	-1303	388	282	C
ATOM	5531	CB	THR	F	364	35.989	5.912	-51.391	1.00	45.24		C
ANISOU	5531	CB	THR	F	364	5738	7796	3655	-1580	468	427	C
ATOM	5532	OG1	THR	F	364	36.808	6.290	-50.279	1.00	45.24		O
ANISOU	5532	OG1	THR	F	364	5587	7795	3810	-1716	475	338	O
ATOM	5533	CG2	THR	F	364	34.757	6.819	-51.449	1.00	46.04		C
ANISOU	5533	CG2	THR	F	364	6170	7588	3736	-1510	345	604	C
ATOM	5534	C	THR	F	364	34.153	4.071	-51.527	1.00	41.58		C
ANISOU	5534	C	THR	F	364	5252	7332	3215	-1076	236	345	C
ATOM	5535	O	THR	F	364	33.686	4.150	-52.663	1.00	43.15		O
ANISOU	5535	O	THR	F	364	5607	7543	3244	-1066	239	436	O
ATOM	5536	N	MSE	F	365	33.435	3.668	-50.475	1.00	39.53		N
ANISOU	5536	N	MSE	F	365	4952	6953	3115	-905	109	284	N
ATOM	5537	CA	MSE	F	365	31.970	3.467	-50.514	1.00	38.74		C
ANISOU	5537	CA	MSE	F	365	4959	6713	3047	-717	-25	317	C
ATOM	5538	CB	MSE	F	365	31.558	2.102	-49.967	1.00	36.04		C
ANISOU	5538	CB	MSE	F	365	4475	6423	2797	-544	-77	168	C
ATOM	5539	CG	MSE	F	365	32.040	0.907	-50.754	1.00	36.93		C
ANISOU	5539	CG	MSE	F	365	4478	6743	2812	-498	-25	64	C
ATOM	5540	SE	MSE	F	365	31.519	-0.802	-49.939	0.90	39.05		SE
ANISOU	5540	SE	MSE	F	365	4645	6991	3203	-298	-87	-113	SE
ATOM	5541	CE	MSE	F	365	29.589	-0.577	-49.841	1.00	35.91		C
ANISOU	5541	CE	MSE	F	365	4355	6406	2882	-215	-210	-68	C
ATOM	5542	C	MSE	F	365	31.317	4.540	-49.661	1.00	37.78		C
ANISOU	5542	C	MSE	F	365	4972	6339	3046	-712	-92	392	C
ATOM	5543	O	MSE	F	365	31.692	4.733	-48.500	1.00	37.16		O
ANISOU	5543	O	MSE	F	365	4845	6192	3080	-755	-78	332	O
ATOM	5544	N	VAL	F	366	30.362	5.267	-50.226	1.00	38.03		N
ANISOU	5544	N	VAL	F	366	5182	6223	3045	-647	-175	514	N
ATOM	5545	CA	VAL	F	366	29.724	6.334	-49.460	1.00	38.03		C
ANISOU	5545	CA	VAL	F	366	5316	5962	3171	-610	-229	570	C
ATOM	5546	CB	VAL	F	366	30.225	7.753	-49.873	1.00	40.41		C
ANISOU	5546	CB	VAL	F	366	5862	6104	3387	-782	-188	733	C
ATOM	5547	CG1	VAL	F	366	29.484	8.835	-49.096	1.00	40.76		C
ANISOU	5547	CG1	VAL	F	366	6072	5842	3573	-704	-250	771	C
ATOM	5548	CG2	VAL	F	366	31.728	7.887	-49.656	1.00	39.69		C
ANISOU	5548	CG2	VAL	F	366	5703	6126	3250	-1053	-37	699	C
ATOM	5549	C	VAL	F	366	28.216	6.220	-49.565	1.00	37.81		C
ANISOU	5549	C	VAL	F	366	5297	5841	3228	-377	-366	566	C
ATOM	5550	O	VAL	F	366	27.635	6.467	-50.626	1.00	39.06		O
ANISOU	5550	O	VAL	F	366	5559	5991	3289	-297	-470	667	O
ATOM	5551	N	GLY	F	367	27.601	5.809	-48.458	1.00	36.34		N
ANISOU	5551	N	GLY	F	367	4995	5600	3214	-276	-367	439	N
ATOM	5552	CA	GLY	F	367	26.149	5.662	-48.373	1.00	35.97		C
ANISOU	5552	CA	GLY	F	367	4885	5486	3296	-73	-463	389	C
ATOM	5553	C	GLY	F	367	25.571	6.755	-47.502	1.00	37.01		C

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Figure 18 (continued)

ANISOU	5553	C	GLY	F	367	5111	5371	3580	-2	-460	393	C
ATOM	5554	O	GLY	F	367	26.298	7.648	-47.027	1.00	37.55		O
ANISOU	5554	O	GLY	F	367	5332	5300	3634	-122	-397	444	O
ATOM	5555	N	LYS	F	368	24.263	6.678	-47.289	1.00	37.07		N
ANISOU	5555	N	LYS	F	368	5015	5327	3743	187	-521	315	N
ATOM	5556	CA	LYS	F	368	23.522	7.707	-46.596	1.00	39.14		C
ANISOU	5556	CA	LYS	F	368	5344	5357	4169	313	-519	293	C
ATOM	5557	CB	LYS	F	368	22.035	7.565	-46.942	1.00	40.86		C
ANISOU	5557	CB	LYS	F	368	5388	5594	4542	553	-639	224	C
ATOM	5558	CG	LYS	F	368	21.244	8.827	-46.755	1.00	45.35		C
ANISOU	5558	CG	LYS	F	368	6044	5921	5265	758	-706	244	C
ATOM	5559	CD	LYS	F	368	20.322	9.053	-47.934	1.00	52.09		C
ANISOU	5559	CD	LYS	F	368	6847	6803	6142	988	-956	316	C
ATOM	5560	CE	LYS	F	368	21.070	9.688	-49.121	1.00	54.74		C
ANISOU	5560	CE	LYS	F	368	7484	7077	6236	936	-1094	561	C
ATOM	5561	NZ	LYS	F	368	20.132	10.022	-50.240	1.00	57.30		N
ANISOU	5561	NZ	LYS	F	368	7821	7398	6554	1192	-1381	650	N
ATOM	5562	C	LYS	F	368	23.751	7.641	-45.067	1.00	37.84		C
ANISOU	5562	C	LYS	F	368	5174	5115	4090	229	-347	158	C
ATOM	5563	O	LYS	F	368	23.754	8.670	-44.375	1.00	38.54		O
ANISOU	5563	O	LYS	F	368	5412	4988	4245	237	-298	153	O
ATOM	5564	N	ARG	F	369	23.945	6.421	-44.577	1.00	35.65		N
ANISOU	5564	N	ARG	F	369	4759	4999	3789	150	-265	51	N
ATOM	5565	CA	ARG	F	369	24.089	6.136	-43.170	1.00	35.10		C
ANISOU	5565	CA	ARG	F	369	4704	4880	3753	76	-120	-72	C
ATOM	5566	CB	ARG	F	369	22.839	5.418	-42.628	1.00	35.16		C
ANISOU	5566	CB	ARG	F	369	4548	4914	3898	172	-37	-226	C
ATOM	5567	CG	ARG	F	369	21.534	6.240	-42.641	1.00	36.78		C
ANISOU	5567	CG	ARG	F	369	4677	4998	4298	364	-46	-284	C
ATOM	5568	CD	ARG	F	369	20.626	5.893	-41.434	1.00	39.03		C
ANISOU	5568	CD	ARG	F	369	4867	5249	4714	379	152	-479	C
ATOM	5569	NE	ARG	F	369	20.476	7.016	-40.493	1.00	39.37		N
ANISOU	5569	NE	ARG	F	369	5053	5078	4826	428	260	-540	N
ATOM	5570	CZ	ARG	F	369	20.294	6.888	-39.186	1.00	41.20		C
ANISOU	5570	CZ	ARG	F	369	5349	5245	5059	356	470	-682	C
ATOM	5571	NH1	ARG	F	369	20.260	5.688	-38.625	1.00	40.27		N
ANISOU	5571	NH1	ARG	F	369	5187	5244	4870	225	594	-756	N
ATOM	5572	NH2	ARG	F	369	20.172	7.967	-38.423	1.00	45.93		N
ANISOU	5572	NH2	ARG	F	369	6100	5643	5708	408	562	-750	N
ATOM	5573	C	ARG	F	369	25.349	5.297	-42.903	1.00	33.83		C
ANISOU	5573	C	ARG	F	369	4557	4853	3444	-89	-92	-70	C
ATOM	5574	O	ARG	F	369	25.582	4.876	-41.779	1.00	33.68		O
ANISOU	5574	O	ARG	F	369	4575	4816	3407	-150	-7	-158	O
ATOM	5575	N	ALA	F	370	26.165	5.072	-43.928	1.00	33.74		N
ANISOU	5575	N	ALA	F	370	4525	4977	3319	-148	-165	25	N
ATOM	5576	CA	ALA	F	370	27.433	4.376	-43.756	1.00	33.32		C
ANISOU	5576	CA	ALA	F	370	4448	5061	3152	-271	-149	14	C
ATOM	5577	CB	ALA	F	370	27.219	2.866	-43.786	1.00	32.53		C
ANISOU	5577	CB	ALA	F	370	4229	5094	3036	-219	-139	-68	C
ATOM	5578	C	ALA	F	370	28.480	4.805	-44.796	1.00	34.46		C
ANISOU	5578	C	ALA	F	370	4607	5301	3186	-377	-183	124	C
ATOM	5579	O	ALA	F	370	28.141	5.420	-45.821	1.00	35.44		O
ANISOU	5579	O	ALA	F	370	4786	5396	3282	-351	-228	227	O
ATOM	5580	N	THR	F	371	29.749	4.533	-44.485	1.00	34.41		N
ANISOU	5580	N	THR	F	371	4557	5404	3113	-500	-162	97	N
ATOM	5581	CA	THR	F	371	30.877	4.693	-45.401	1.00	35.72		C
ANISOU	5581	CA	THR	F	371	4675	5719	3179	-628	-147	157	C
ATOM	5582	CB	THR	F	371	31.658	6.063	-45.259	1.00	37.27		C
ANISOU	5582	CB	THR	F	371	4983	5816	3361	-831	-115	222	C
ATOM	5583	OG1	THR	F	371	32.299	6.139	-43.983	1.00	39.27		O
ANISOU	5583	OG1	THR	F	371	5217	6048	3656	-912	-125	125	O
ATOM	5584	CG2	THR	F	371	30.771	7.277	-45.436	1.00	38.77		C
ANISOU	5584	CG2	THR	F	371	5387	5755	3590	-806	-128	324	C
ATOM	5585	C	THR	F	371	31.864	3.567	-45.105	1.00	35.06		C
ANISOU	5585	C	THR	F	371	4426	5831	3065	-633	-144	55	C
ATOM	5586	O	THR	F	371	31.992	3.125	-43.961	1.00	34.68		O
ANISOU	5586	O	THR	F	371	4370	5753	3055	-598	-175	-28	O
ATOM	5587	N	ALA	F	372	32.582	3.125	-46.131	1.00	35.32		N
ANISOU	5587	N	ALA	F	372	4346	6058	3017	-666	-110	60	N
ATOM	5588	CA	ALA	F	372	33.520	2.019	-45.996	1.00	34.84		C
ANISOU	5588	CA	ALA	F	372	4107	6186	2944	-621	-112	-50	C

Figure 18 (continued)

ATOM	5589	CB	ALA	F	372	32.796	0.677	-46.224	1.00	33.58	
ANISOU	5589	CB	ALA	F	372	3933	6046	2781	-434	-136	-111
ATOM	5590	C	ALA	F	372	34.709	2.162	-46.952	1.00	36.35	
ANISOU	5590	C	ALA	F	372	4157	6590	3064	-749	-25	-55
ATOM	5591	O	ALA	F	372	34.637	2.846	-47.979	1.00	37.00	
ANISOU	5591	O	ALA	F	372	4314	6683	3060	-860	51	41
ATOM	5592	N	ILE	F	373	35.809	1.530	-46.579	1.00	36.90	
ANISOU	5592	N	ILE	F	373	4028	6828	3166	-731	-35	-172
ATOM	5593	CA	ILE	F	373	36.920	1.327	-47.482	1.00	38.46	
ANISOU	5593	CA	ILE	F	373	4023	7274	3317	-805	74	-232
ATOM	5594	CB	ILE	F	373	38.271	1.774	-46.878	1.00	40.52	
ANISOU	5594	CB	ILE	F	373	4067	7677	3652	-954	71	-316
ATOM	5595	CG1	ILE	F	373	38.285	3.292	-46.705	1.00	41.82	
ANISOU	5595	CG1	ILE	F	373	4365	7713	3813	-1228	112	-214
ATOM	5596	CD1	ILE	F	373	38.951	3.744	-45.409	1.00	46.04	
ANISOU	5596	CD1	ILE	F	373	4819	8231	4445	-1323	-5	-292
ATOM	5597	CG2	ILE	F	373	39.438	1.353	-47.777	1.00	42.20	
ANISOU	5597	CG2	ILE	F	373	3998	8188	3847	-998	208	-427
ATOM	5598	C	ILE	F	373	36.917	-0.152	-47.827	1.00	37.80	
ANISOU	5598	C	ILE	F	373	3843	7296	3223	-576	62	-341
ATOM	5599	O	ILE	F	373	37.018	-1.025	-46.943	1.00	36.27	
ANISOU	5599	O	ILE	F	373	3606	7073	3101	-402	-52	-425
ATOM	5600	N	LEU	F	374	36.771	-0.409	-49.125	1.00	37.99	
ANISOU	5600	N	LEU	F	374	3882	7418	3136	-580	175	-333
ATOM	5601	CA	LEU	F	374	36.835	-1.740	-49.675	1.00	37.72	
ANISOU	5601	CA	LEU	F	374	3776	7485	3070	-391	197	-455
ATOM	5602	CB	LEU	F	374	35.600	-2.008	-50.541	1.00	36.81	
ANISOU	5602	CB	LEU	F	374	3865	7278	2844	-346	196	-396
ATOM	5603	CG	LEU	F	374	35.410	-3.409	-51.127	1.00	35.70	
ANISOU	5603	CG	LEU	F	374	3719	7187	2659	-167	206	-529
ATOM	5604	CD1	LEU	F	374	35.355	-4.482	-50.037	1.00	32.88	
ANISOU	5604	CD1	LEU	F	374	3345	6714	2434	29	94	-622
ATOM	5605	CD2	LEU	F	374	34.154	-3.412	-51.980	1.00	36.04	
ANISOU	5605	CD2	LEU	F	374	3956	7151	2586	-180	174	-465
ATOM	5606	C	LEU	F	374	38.114	-1.935	-50.495	1.00	40.40	
ANISOU	5606	C	LEU	F	374	3881	8101	3369	-441	359	-571
ATOM	5607	O	LEU	F	374	38.330	-1.244	-51.491	1.00	41.59	
ANISOU	5607	O	LEU	F	374	4056	8354	3393	-631	516	-515
ATOM	5608	N	ARG	F	375	38.958	-2.863	-50.040	1.00	41.39	
ANISOU	5608	N	ARG	F	375	3788	8340	3600	-264	322	-734
ATOM	5609	CA	ARG	F	375	40.081	-3.367	-50.817	1.00	44.76	
ANISOU	5609	CA	ARG	F	375	3954	9037	4017	-227	480	-901
ATOM	5610	CB	ARG	F	375	41.365	-3.461	-49.975	1.00	46.06	
ANISOU	5610	CB	ARG	F	375	3782	9363	4356	-167	416	-1037
ATOM	5611	CG	ARG	F	375	41.765	-2.160	-49.277	1.00	47.35	
ANISOU	5611	CG	ARG	F	375	3874	9536	4580	-429	379	-955
ATOM	5612	CD	ARG	F	375	43.214	-2.192	-48.753	1.00	51.18	
ANISOU	5612	CD	ARG	F	375	3943	10275	5227	-420	344	-1131
ATOM	5613	NE	ARG	F	375	43.464	-1.175	-47.726	1.00	56.01	
ANISOU	5613	NE	ARG	F	375	4529	10837	5914	-618	213	-1075
ATOM	5614	CZ	ARG	F	375	44.650	-0.608	-47.469	1.00	59.99	
ANISOU	5614	CZ	ARG	F	375	4690	11572	6531	-795	230	-1192
ATOM	5615	NH1	ARG	F	375	45.730	-0.928	-48.175	1.00	63.23	
ANISOU	5615	NH1	ARG	F	375	4713	12304	7009	-801	399	-1375
ATOM	5616	NH2	ARG	F	375	44.757	0.294	-46.496	1.00	61.29	
ANISOU	5616	NH2	ARG	F	375	4888	11655	6746	-981	88	-1145
ATOM	5617	C	ARG	F	375	39.650	-4.740	-51.345	1.00	44.39	
ANISOU	5617	C	ARG	F	375	3991	8951	3922	26	478	-1009
ATOM	5618	O	ARG	F	375	39.022	-5.515	-50.620	1.00	42.96	
ANISOU	5618	O	ARG	F	375	3945	8574	3804	217	312	-1010
ATOM	5619	N	LYS	F	376	39.987	-5.036	-52.600	1.00	46.26	
ANISOU	5619	N	LYS	F	376	4176	9365	4035	5	679	-1106
ATOM	5620	CA	LYS	F	376	39.348	-6.134	-53.320	1.00	46.24	
ANISOU	5620	CA	LYS	F	376	4340	9297	3933	173	694	-1190
ATOM	5621	CB	LYS	F	376	38.040	-5.601	-53.905	1.00	45.02	
ANISOU	5621	CB	LYS	F	376	4494	9002	3608	21	666	-1020
ATOM	5622	CG	LYS	F	376	37.218	-6.592	-54.639	1.00	45.84	
ANISOU	5622	CG	LYS	F	376	4788	9030	3597	138	648	-1099
ATOM	5623	CD	LYS	F	376	36.312	-5.902	-55.630	1.00	45.93	
ANISOU	5623	CD	LYS	F	376	5028	9033	3391	-41	662	-965
ATOM	5624	CE	LYS	F	376	35.659	-6.942	-56.497	1.00	47.28	

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Figure 18 (continued)

ANISOU	5624	CE	LYS	F	376	5357	9181	3425	56	651	-1090	C
ATOM	5625	NZ	LYS	F	376	36.674	-7.533	-57.410	1.00	49.17		N
ANISOU	5625	NZ	LYS	F	376	5499	9636	3547	101	872	-1286	N
ATOM	5626	C	LYS	F	376	40.212	-6.718	-54.445	1.00	49.04		C
ANISOU	5626	C	LYS	F	376	4537	9897	4199	227	926	-1392	C
ATOM	5627	O	LYS	F	376	40.914	-5.980	-55.142	1.00	51.37		O
ANISOU	5627	O	LYS	F	376	4701	10414	4403	20	1140	-1400	O
ATOM	5628	N	ALA	F	377	40.148	-8.041	-54.624	1.00	48.89		N
ANISOU	5628	N	ALA	F	377	4554	9824	4200	490	905	-1564	N
ATOM	5629	CA	ALA	F	377	40.819	-8.718	-55.746	1.00	50.86		C
ANISOU	5629	CA	ALA	F	377	4702	10273	4349	573	1136	-1786	C
ATOM	5630	CB	ALA	F	377	41.903	-9.649	-55.227	1.00	53.08		C
ANISOU	5630	CB	ALA	F	377	4691	10631	4845	884	1125	-2013	C
ATOM	5631	C	ALA	F	377	39.807	-9.480	-56.625	1.00	50.17		C
ANISOU	5631	C	ALA	F	377	4938	10055	4069	617	1139	-1830	C
ATOM	5632	O	ALA	F	377	38.594	-9.335	-56.445	1.00	47.07		O
ANISOU	5632	O	ALA	F	377	4807	9454	3625	543	972	-1675	O
ATOM	5633	N	THR	F	378	40.302	-10.282	-57.575	1.00	52.64		N
ANISOU	5633	N	THR	F	378	5218	10501	4283	731	1331	-2062	N
ATOM	5634	CA	THR	F	378	39.443	-11.109	-58.447	1.00	52.30		C
ANISOU	5634	CA	THR	F	378	5480	10344	4050	774	1333	-2154	C
ATOM	5635	CB	THR	F	378	40.261	-11.862	-59.508	1.00	56.31		C
ANISOU	5635	CB	THR	F	378	5911	11045	4441	890	1603	-2444	C
ATOM	5636	OG1	THR	F	378	41.023	-10.926	-60.282	1.00	58.56		O
ANISOU	5636	OG1	THR	F	378	6043	11640	4566	661	1879	-2434	O
ATOM	5637	CG2	THR	F	378	39.345	-12.685	-60.420	1.00	56.32		C
ANISOU	5637	CG2	THR	F	378	6258	10920	4219	905	1590	-2552	C
ATOM	5638	C	THR	F	378	38.624	-12.111	-57.623	1.00	50.10		C
ANISOU	5638	C	THR	F	378	5380	9738	3920	974	1085	-2166	C
ATOM	5639	O	THR	F	378	39.174	-13.029	-57.010	1.00	50.63		O
ANISOU	5639	O	THR	F	378	5354	9711	4174	1249	1041	-2309	O
ATOM	5640	N	ARG	F	379	37.307	-11.917	-57.630	1.00	47.53		N
ANISOU	5640	N	ARG	F	379	5314	9237	3507	831	928	-2016	N
ATOM	5641	CA	ARG	F	379	36.375	-12.691	-56.812	1.00	45.98		C
ANISOU	5641	CA	ARG	F	379	5299	8730	3442	929	717	-1996	C
ATOM	5642	CB	ARG	F	379	35.991	-13.986	-57.509	1.00	47.10		C
ANISOU	5642	CB	ARG	F	379	5649	8750	3497	1039	741	-2218	C
ATOM	5643	CG	ARG	F	379	35.553	-13.795	-58.975	1.00	49.36		C
ANISOU	5643	CG	ARG	F	379	6077	9194	3483	864	839	-2280	C
ATOM	5644	CD	ARG	F	379	34.872	-15.036	-59.519	1.00	49.19		C
ANISOU	5644	CD	ARG	F	379	6310	8999	3381	920	800	-2486	C
ATOM	5645	NE	ARG	F	379	33.688	-15.336	-58.716	1.00	48.20		N
ANISOU	5645	NE	ARG	F	379	6327	8598	3390	864	582	-2392	N
ATOM	5646	CZ	ARG	F	379	32.926	-16.417	-58.847	1.00	48.36		C
ANISOU	5646	CZ	ARG	F	379	6569	8396	3409	870	509	-2542	C
ATOM	5647	NH1	ARG	F	379	33.204	-17.326	-59.776	1.00	50.81		N
ANISOU	5647	NH1	ARG	F	379	7015	8710	3582	951	618	-2802	N
ATOM	5648	NH2	ARG	F	379	31.886	-16.587	-58.042	1.00	43.85		N
ANISOU	5648	NH2	ARG	F	379	6090	7596	2976	779	346	-2448	N
ATOM	5649	C	ARG	F	379	36.840	-12.931	-55.347	1.00	45.52		C
ANISOU	5649	C	ARG	F	379	5126	8523	3646	1110	592	-1952	C
ATOM	5650	O	ARG	F	379	36.679	-14.029	-54.799	1.00	46.28		O
ANISOU	5650	O	ARG	F	379	5352	8383	3849	1302	501	-2041	O
ATOM	5651	N	ARG	F	380	37.400	-11.897	-54.717	1.00	44.64		N
ANISOU	5651	N	ARG	F	380	4807	8534	3618	1036	579	-1811	N
ATOM	5652	CA	ARG	F	380	37.835	-11.998	-53.324	1.00	44.23		C
ANISOU	5652	CA	ARG	F	380	4663	8367	3777	1184	430	-1758	C
ATOM	5653	CB	ARG	F	380	39.209	-12.663	-53.248	1.00	47.80		C
ANISOU	5653	CB	ARG	F	380	4876	8940	4345	1461	483	-1956	C
ATOM	5654	CG	ARG	F	380	39.793	-12.813	-51.838	1.00	49.84		C
ANISOU	5654	CG	ARG	F	380	5033	9103	4802	1655	286	-1915	C
ATOM	5655	CD	ARG	F	380	41.062	-13.651	-51.917	1.00	56.80		C
ANISOU	5655	CD	ARG	F	380	5680	10096	5807	1991	313	-2147	C
ATOM	5656	NE	ARG	F	380	42.171	-13.087	-51.147	1.00	61.43		N
ANISOU	5656	NE	ARG	F	380	5917	10875	6548	2062	223	-2147	N
ATOM	5657	CZ	ARG	F	380	43.388	-12.828	-51.635	1.00	64.11		C
ANISOU	5657	CZ	ARG	F	380	5845	11552	6964	2111	368	-2317	C
ATOM	5658	NH1	ARG	F	380	43.677	-13.067	-52.908	1.00	65.91		N
ANISOU	5658	NH1	ARG	F	380	5980	11960	7104	2099	641	-2496	N
ATOM	5659	NH2	ARG	F	380	44.326	-12.326	-50.842	1.00	65.00		N
ANISOU	5659	NH2	ARG	F	380	5629	11835	7234	2157	247	-2324	N

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Figure 18 (continued)

ATOM	5660	C	ARG	F	380	37.852	-10.660	-52.621	1.00	41.88	
ANISOU	5660	C	ARG	F	380	4256	8133	3523	993	370	-1553
ATOM	5661	O	ARG	F	380	38.517	-9.734	-53.075	1.00	42.95	
ANISOU	5661	O	ARG	F	380	4196	8508	3614	848	494	-1530
ATOM	5662	N	LEU	F	381	37.099	-10.574	-51.519	1.00	39.44	
ANISOU	5662	N	LEU	F	381	4100	7595	3292	975	200	-1415
ATOM	5663	CA	LEU	F	381	37.138	-9.447	-50.574	1.00	37.48	
ANISOU	5663	CA	LEU	F	381	3781	7350	3109	840	116	-1247
ATOM	5664	CB	LEU	F	381	35.919	-9.479	-49.643	1.00	35.32	
ANISOU	5664	CB	LEU	F	381	3754	6800	2866	791	-16	-1118
ATOM	5665	CG	LEU	F	381	35.557	-8.300	-48.733	1.00	33.09	
ANISOU	5665	CG	LEU	F	381	3486	6465	2620	628	-85	-947
ATOM	5666	CD1	LEU	F	381	34.028	-8.185	-48.630	1.00	28.32	
ANISOU	5666	CD1	LEU	F	381	3096	5671	1992	513	-108	-858
ATOM	5667	CD2	LEU	F	381	36.185	-8.462	-47.322	1.00	32.20	
ANISOU	5667	CD2	LEU	F	381	3358	6270	2605	750	-225	-936
ATOM	5668	C	LEU	F	381	38.412	-9.549	-49.763	1.00	38.85	
ANISOU	5668	C	LEU	F	381	3730	7616	3415	1002	44	-1313
ATOM	5669	O	LEU	F	381	38.661	-10.569	-49.124	1.00	39.13	
ANISOU	5669	O	LEU	F	381	3822	7515	3530	1250	-72	-1389
ATOM	5670	N	VAL	F	382	39.229	-8.500	-49.829	1.00	39.49	
ANISOU	5670	N	VAL	F	382	3562	7926	3518	858	106	-1289
ATOM	5671	CA	VAL	F	382	40.512	-8.475	-49.144	1.00	41.58	
ANISOU	5671	CA	VAL	F	382	3538	8340	3920	980	28	-1378
ATOM	5672	CB	VAL	F	382	41.603	-7.708	-49.966	1.00	43.41	
ANISOU	5672	CB	VAL	F	382	3420	8920	4155	821	228	-1467
ATOM	5673	CG1	VAL	F	382	42.891	-7.551	-49.173	1.00	44.97	
ANISOU	5673	CG1	VAL	F	382	3263	9301	4525	909	121	-1569
ATOM	5674	CG2	VAL	F	382	41.887	-8.422	-51.295	1.00	45.12	
ANISOU	5674	CG2	VAL	F	382	3569	9282	4293	909	448	-1638
ATOM	5675	C	VAL	F	382	40.312	-7.883	-47.743	1.00	40.72	
ANISOU	5675	C	VAL	F	382	3510	8092	3870	921	-175	-1239
ATOM	5676	O	VAL	F	382	40.756	-8.472	-46.752	1.00	41.67	
ANISOU	5676	O	VAL	F	382	3618	8139	4075	1138	-368	-1279
ATOM	5677	N	GLN	F	383	39.620	-6.740	-47.677	1.00	39.32	
ANISOU	5677	N	GLN	F	383	3446	7862	3630	645	-138	-1080
ATOM	5678	CA	GLN	F	383	39.373	-6.002	-46.438	1.00	38.54	
ANISOU	5678	CA	GLN	F	383	3444	7637	3564	546	-287	-961
ATOM	5679	CB	GLN	F	383	40.628	-5.223	-46.012	1.00	40.51	
ANISOU	5679	CB	GLN	F	383	3390	8104	3898	455	-334	-1014
ATOM	5680	CG	GLN	F	383	40.645	-4.744	-44.547	1.00	40.45	
ANISOU	5680	CG	GLN	F	383	3469	7978	3921	423	-545	-949
ATOM	5681	CD	GLN	F	383	41.875	-3.885	-44.209	1.00	43.46	
ANISOU	5681	CD	GLN	F	383	3531	8595	4388	279	-598	-1023
ATOM	5682	OE1	GLN	F	383	42.401	-3.158	-45.063	1.00	47.32	
ANISOU	5682	OE1	GLN	F	383	3803	9284	4893	65	-416	-1057
ATOM	5683	NE2	GLN	F	383	42.331	-3.969	-42.958	1.00	43.22	
ANISOU	5683	NE2	GLN	F	383	3486	8538	4398	376	-848	-1052
ATOM	5684	C	GLN	F	383	38.227	-5.022	-46.652	1.00	36.57	
ANISOU	5684	C	GLN	F	383	3400	7259	3236	306	-212	-801
ATOM	5685	O	GLN	F	383	38.119	-4.405	-47.720	1.00	37.21	
ANISOU	5685	O	GLN	F	383	3447	7443	3248	144	-58	-768
ATOM	5686	N	LEU	F	384	37.369	-4.907	-45.642	1.00	34.97	
ANISOU	5686	N	LEU	F	384	3425	6828	3036	299	-318	-709
ATOM	5687	CA	LEU	F	384	36.306	-3.912	-45.594	1.00	33.66	
ANISOU	5687	CA	LEU	F	384	3428	6527	2834	111	-275	-576
ATOM	5688	CB	LEU	F	384	34.924	-4.535	-45.873	1.00	31.81	
ANISOU	5688	CB	LEU	F	384	3403	6118	2566	163	-248	-546
ATOM	5689	CG	LEU	F	384	33.659	-3.661	-45.748	1.00	30.14	
ANISOU	5689	CG	LEU	F	384	3344	5757	2352	32	-224	-435
ATOM	5690	CD1	LEU	F	384	33.439	-2.719	-46.929	1.00	25.61	
ANISOU	5690	CD1	LEU	F	384	2737	5271	1724	-100	-144	-364
ATOM	5691	CD2	LEU	F	384	32.413	-4.513	-45.509	1.00	29.87	
ANISOU	5691	CD2	LEU	F	384	3472	5546	2330	101	-229	-452
ATOM	5692	C	LEU	F	384	36.364	-3.301	-44.207	1.00	33.92	
ANISOU	5692	C	LEU	F	384	3539	6450	2901	56	-390	-531
ATOM	5693	O	LEU	F	384	36.411	-4.017	-43.192	1.00	34.45	
ANISOU	5693	O	LEU	F	384	3703	6414	2973	195	-514	-559
ATOM	5694	N	ILE	F	385	36.419	-1.976	-44.173	1.00	34.62	
ANISOU	5694	N	ILE	F	385	3612	6550	2992	-150	-352	-464
ATOM	5695	CA	ILE	F	385	36.450	-1.228	-42.930	1.00	35.04	

Figure 18 (continued)

ANISOU	5695	CA	ILE	F	385	3759	6494	3061	-238	-445	-436	C
ATOM	5696	CB	ILE	F	385	37.718	-0.361	-42.822	1.00	36.95		C
ANISOU	5696	CB	ILE	F	385	3794	6908	3338	-401	-473	-480	C
ATOM	5697	CG1	ILE	F	385	38.985	-1.211	-43.001	1.00	38.55		C
ANISOU	5697	CG1	ILE	F	385	3710	7352	3587	-268	-538	-611	C
ATOM	5698	CD1	ILE	F	385	40.287	-0.384	-43.171	1.00	41.49		C
ANISOU	5698	CD1	ILE	F	385	3783	7960	4019	-466	-520	-687	C
ATOM	5699	CG2	ILE	F	385	37.746	0.385	-41.474	1.00	37.52		C
ANISOU	5699	CG2	ILE	F	385	3994	6855	3407	-499	-592	-475	C
ATOM	5700	C	ILE	F	385	35.213	-0.350	-42.996	1.00	34.38		C
ANISOU	5700	C	ILE	F	385	3874	6223	2965	-350	-364	-332	C
ATOM	5701	O	ILE	F	385	35.148	0.522	-43.864	1.00	35.97		O
ANISOU	5701	O	ILE	F	385	4050	6456	3159	-485	-273	-270	O
ATOM	5702	N	VAL	F	386	34.230	-0.603	-42.119	1.00	32.76		N
ANISOU	5702	N	VAL	F	386	3871	5822	2755	-286	-389	-317	N
ATOM	5703	CA	VAL	F	386	32.929	0.098	-42.139	1.00	31.18		C
ANISOU	5703	CA	VAL	F	386	3822	5448	2576	-341	-310	-251	C
ATOM	5704	CB	VAL	F	386	31.707	-0.895	-42.196	1.00	30.22		C
ANISOU	5704	CB	VAL	F	386	3791	5226	2465	-223	-267	-266	C
ATOM	5705	CG1	VAL	F	386	30.411	-0.170	-42.554	1.00	28.82		C
ANISOU	5705	CG1	VAL	F	386	3669	4938	2344	-255	-195	-220	C
ATOM	5706	CG2	VAL	F	386	31.928	-2.001	-43.194	1.00	31.56		C
ANISOU	5706	CG2	VAL	F	386	3858	5519	2615	-125	-265	-303	C
ATOM	5707	C	VAL	F	386	32.736	1.020	-40.921	1.00	31.34		C
ANISOU	5707	C	VAL	F	386	3995	5314	2601	-430	-328	-248	C
ATOM	5708	O	VAL	F	386	33.123	0.664	-39.792	1.00	31.29		O
ANISOU	5708	O	VAL	F	386	4065	5275	2548	-406	-407	-298	O
ATOM	5709	N	SER	F	387	32.167	2.205	-41.181	1.00	30.66		N
ANISOU	5709	N	SER	F	387	3973	5122	2554	-523	-264	-192	N
ATOM	5710	CA	SER	F	387	31.593	3.089	-40.168	1.00	30.93		C
ANISOU	5710	CA	SER	F	387	4185	4961	2606	-577	-238	-204	C
ATOM	5711	CB	SER	F	387	32.314	4.437	-40.147	1.00	32.15		C
ANISOU	5711	CB	SER	F	387	4367	5081	2766	-752	-252	-182	C
ATOM	5712	OG	SER	F	387	33.719	4.299	-40.027	1.00	33.45		O
ANISOU	5712	OG	SER	F	387	4399	5419	2892	-849	-338	-224	O
ATOM	5713	C	SER	F	387	30.123	3.319	-40.541	1.00	30.20		C
ANISOU	5713	C	SER	F	387	4150	4737	2589	-496	-148	-176	C
ATOM	5714	O	SER	F	387	29.797	3.411	-41.720	1.00	30.80		O
ANISOU	5714	O	SER	F	387	4146	4862	2693	-463	-140	-113	O
ATOM	5715	N	GLY	F	388	29.239	3.409	-39.556	1.00	29.35		N
ANISOU	5715	N	GLY	F	388	4170	4476	2507	-463	-82	-233	N
ATOM	5716	CA	GLY	F	388	27.829	3.707	-39.816	1.00	28.50		C
ANISOU	5716	CA	GLY	F	388	4063	4258	2506	-376	4	-240	C
ATOM	5717	C	GLY	F	388	27.081	4.361	-38.647	1.00	28.60		C
ANISOU	5717	C	GLY	F	388	4224	4084	2558	-377	109	-322	C
ATOM	5718	O	GLY	F	388	27.550	4.343	-37.526	1.00	27.72		O
ANISOU	5718	O	GLY	F	388	4253	3926	2354	-450	122	-378	O
ATOM	5719	N	LYS	F	389	25.894	4.911	-38.914	1.00	28.96		N
ANISOU	5719	N	LYS	F	389	4235	4030	2737	-281	179	-343	N
ATOM	5720	CA	LYS	F	389	25.150	5.640	-37.881	1.00	30.12		C
ANISOU	5720	CA	LYS	F	389	4504	3998	2943	-260	308	-446	C
ATOM	5721	CB	LYS	F	389	24.270	6.732	-38.500	1.00	31.54		C
ANISOU	5721	CB	LYS	F	389	4640	4054	3289	-128	310	-434	C
ATOM	5722	CG	LYS	F	389	25.065	7.735	-39.311	1.00	31.37		C
ANISOU	5722	CG	LYS	F	389	4699	3977	3246	-167	180	-301	C
ATOM	5723	CD	LYS	F	389	24.164	8.721	-39.993	1.00	32.90		C
ANISOU	5723	CD	LYS	F	389	4890	4023	3587	1	146	-263	C
ATOM	5724	CE	LYS	F	389	24.971	9.802	-40.644	1.00	33.28		C
ANISOU	5724	CE	LYS	F	389	5107	3953	3584	-75	49	-123	C
ATOM	5725	NZ	LYS	F	389	24.087	10.800	-41.284	1.00	36.05		N
ANISOU	5725	NZ	LYS	F	389	5517	4114	4065	121	-12	-67	N
ATOM	5726	C	LYS	F	389	24.345	4.720	-36.971	1.00	30.25		C
ANISOU	5726	C	LYS	F	389	4529	4017	2950	-255	466	-565	C
ATOM	5727	O	LYS	F	389	23.902	5.131	-35.891	1.00	31.37		O
ANISOU	5727	O	LYS	F	389	4806	4031	3083	-274	611	-673	O
ATOM	5728	N	ASP	F	390	24.204	3.466	-37.393	1.00	29.12		N
ANISOU	5728	N	ASP	F	390	4269	4006	2789	-251	455	-550	N
ATOM	5729	CA	ASP	F	390	23.576	2.440	-36.575	1.00	29.97		C
ANISOU	5729	CA	ASP	F	390	4424	4105	2858	-296	612	-643	C
ATOM	5730	CB	ASP	F	390	22.041	2.586	-36.553	1.00	30.71		C
ANISOU	5730	CB	ASP	F	390	4366	4164	3137	-237	789	-763	C

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Figure 18 (continued)

ATOM	5731	CG	ASP	F	390	21.410	2.597	-37.954	1.00	30.11	C	
ANISOU	5731	CG	ASP	F	390	4012	4192	3236	-122	680	-736	C
ATOM	5732	OD1	ASP	F	390	21.906	1.900	-38.876	1.00	31.34	O	
ANISOU	5732	OD1	ASP	F	390	4099	4466	3341	-128	537	-651	O
ATOM	5733	OD2	ASP	F	390	20.396	3.303	-38.134	1.00	27.66	O	
ANISOU	5733	OD2	ASP	F	390	3554	3847	3110	-10	729	-811	O
ATOM	5734	C	ASP	F	390	23.993	1.035	-37.017	1.00	29.58	C	
ANISOU	5734	C	ASP	F	390	4340	4171	2729	-323	541	-594	C
ATOM	5735	O	ASP	F	390	24.751	0.863	-37.972	1.00	28.60	O	
ANISOU	5735	O	ASP	F	390	4127	4153	2588	-291	379	-507	O
ATOM	5736	N	GLU	F	391	23.482	0.046	-36.293	1.00	30.84	N	
ANISOU	5736	N	GLU	F	391	4594	4290	2833	-389	685	-659	N
ATOM	5737	CA	GLU	F	391	23.729	-1.385	-36.518	1.00	30.78	C	
ANISOU	5737	CA	GLU	F	391	4622	4325	2747	-417	652	-631	C
ATOM	5738	CB	GLU	F	391	22.983	-2.177	-35.421	1.00	31.99	C	
ANISOU	5738	CB	GLU	F	391	4962	4364	2827	-533	875	-709	C
ATOM	5739	CG	GLU	F	391	23.324	-3.638	-35.334	1.00	31.45	C	
ANISOU	5739	CG	GLU	F	391	5056	4259	2634	-576	853	-670	C
ATOM	5740	CD	GLU	F	391	22.692	-4.319	-34.139	1.00	33.38	C	
ANISOU	5740	CD	GLU	F	391	5573	4355	2756	-724	1088	-721	C
ATOM	5741	OE1	GLU	F	391	23.273	-5.342	-33.707	1.00	33.05	O	
ANISOU	5741	OE1	GLU	F	391	5804	4219	2535	-744	1036	-654	O
ATOM	5742	OE2	GLU	F	391	21.639	-3.850	-33.633	1.00	30.81	O	
ANISOU	5742	OE2	GLU	F	391	5202	3997	2506	-814	1329	-829	O
ATOM	5743	C	GLU	F	391	23.286	-1.857	-37.909	1.00	30.79	C	
ANISOU	5743	C	GLU	F	391	4372	4443	2884	-367	585	-630	C
ATOM	5744	O	GLU	F	391	24.001	-2.594	-38.588	1.00	30.38	O	
ANISOU	5744	O	GLU	F	391	4307	4463	2773	-336	456	-576	O
ATOM	5745	N	GLN	F	392	22.099	-1.421	-38.324	1.00	32.45	N	
ANISOU	5745	N	GLN	F	392	4380	4677	3273	-346	666	-706	N
ATOM	5746	CA	GLN	F	392	21.515	-1.817	-39.610	1.00	32.48	C	
ANISOU	5746	CA	GLN	F	392	4144	4800	3398	-304	583	-727	C
ATOM	5747	CB	GLN	F	392	20.092	-1.260	-39.718	1.00	34.09	C	
ANISOU	5747	CB	GLN	F	392	4120	5020	3814	-271	678	-843	C
ATOM	5748	CG	GLN	F	392	19.442	-1.344	-41.095	1.00	35.80	C	
ANISOU	5748	CG	GLN	F	392	4067	5374	4160	-195	528	-866	C
ATOM	5749	CD	GLN	F	392	19.152	-2.771	-41.513	1.00	38.28	C	
ANISOU	5749	CD	GLN	F	392	4332	5752	4461	-309	544	-935	C
ATOM	5750	OE1	GLN	F	392	19.360	-3.713	-40.739	1.00	38.79	O	
ANISOU	5750	OE1	GLN	F	392	4575	5730	4433	-443	686	-960	O
ATOM	5751	NE2	GLN	F	392	18.687	-2.945	-42.749	1.00	38.16	N	
ANISOU	5751	NE2	GLN	F	392	4110	5869	4519	-260	384	-963	N
ATOM	5752	C	GLN	F	392	22.369	-1.346	-40.784	1.00	31.31	C	
ANISOU	5752	C	GLN	F	392	3932	4753	3213	-208	364	-613	C
ATOM	5753	O	GLN	F	392	22.674	-2.123	-41.683	1.00	30.61	O	
ANISOU	5753	O	GLN	F	392	3793	4758	3081	-202	268	-594	O
ATOM	5754	N	SER	F	393	22.754	-0.071	-40.752	1.00	31.83	N	
ANISOU	5754	N	SER	F	393	4026	4785	3285	-152	308	-546	N
ATOM	5755	CA	SER	F	393	23.555	0.584	-41.804	1.00	31.84	C	
ANISOU	5755	CA	SER	F	393	4001	4859	3240	-99	140	-428	C
ATOM	5756	CB	SER	F	393	23.778	2.031	-41.404	1.00	32.41	C	
ANISOU	5756	CB	SER	F	393	4160	4818	3334	-79	137	-379	C
ATOM	5757	OG	SER	F	393	22.513	2.621	-41.159	1.00	36.78	O	
ANISOU	5757	OG	SER	F	393	4636	5288	4050	2	210	-458	O
ATOM	5758	C	SER	F	393	24.904	-0.068	-42.095	1.00	31.09	C	
ANISOU	5758	C	SER	F	393	3969	4851	2992	-139	63	-365	C
ATOM	5759	O	SER	F	393	25.370	-0.089	-43.238	1.00	31.67	O	
ANISOU	5759	O	SER	F	393	3975	5039	3019	-116	-36	-305	O
ATOM	5760	N	ILE	F	394	25.531	-0.560	-41.031	1.00	30.78	N	
ANISOU	5760	N	ILE	F	394	4068	4760	2868	-190	110	-387	N
ATOM	5761	CA	ILE	F	394	26.767	-1.307	-41.083	1.00	29.79	C	
ANISOU	5761	CA	ILE	F	394	3986	4710	2624	-191	33	-359	C
ATOM	5762	CB	ILE	F	394	27.351	-1.480	-39.645	1.00	29.65	C	
ANISOU	5762	CB	ILE	F	394	4156	4598	2511	-226	48	-374	C
ATOM	5763	CG1	ILE	F	394	27.823	-0.134	-39.098	1.00	29.52	C	
ANISOU	5763	CG1	ILE	F	394	4191	4541	2482	-279	24	-348	C
ATOM	5764	CD1	ILE	F	394	27.916	-0.060	-37.553	1.00	31.10	C	
ANISOU	5764	CD1	ILE	F	394	4613	4618	2587	-330	64	-390	C
ATOM	5765	CG2	ILE	F	394	28.466	-2.533	-39.621	1.00	29.07	C	
ANISOU	5765	CG2	ILE	F	394	4119	4590	2336	-174	-54	-367	C
ATOM	5766	C	ILE	F	394	26.499	-2.669	-41.731	1.00	29.71	C	

Figure 18 (continued)

ANISOU	5766	C	ILE	F	394	3929	4753	2607	-158	31	-404	C
ATOM	5767	O	ILE	F	394	27.278	-3.120	-42.577	1.00	29.55		O
ANISOU	5767	O	ILE	F	394	3847	4847	2533	-116	-47	-388	O
ATOM	5768	N	ALA	F	395	25.403	-3.316	-41.324	1.00	30.22		N
ANISOU	5768	N	ALA	F	395	4027	4730	2726	-194	137	-478	N
ATOM	5769	CA	ALA	F	395	25.009	-4.588	-41.908	1.00	30.57		C
ANISOU	5769	CA	ALA	F	395	4048	4791	2775	-201	149	-541	C
ATOM	5770	CB	ALA	F	395	23.837	-5.225	-41.145	1.00	31.36		C
ANISOU	5770	CB	ALA	F	395	4215	4766	2934	-302	310	-630	C
ATOM	5771	C	ALA	F	395	24.716	-4.452	-43.403	1.00	30.78		C
ANISOU	5771	C	ALA	F	395	3889	4961	2846	-163	60	-548	C
ATOM	5772	O	ALA	F	395	25.104	-5.325	-44.164	1.00	31.52		O
ANISOU	5772	O	ALA	F	395	3978	5117	2882	-138	10	-576	O
ATOM	5773	N	GLU	F	396	24.072	-3.354	-43.821	1.00	31.71		N
ANISOU	5773	N	GLU	F	396	3881	5119	3047	-145	31	-523	N
ATOM	5774	CA	GLU	F	396	23.861	-3.029	-45.257	1.00	31.94		C
ANISOU	5774	CA	GLU	F	396	3780	5281	3073	-95	-93	-498	C
ATOM	5775	CB	GLU	F	396	23.037	-1.743	-45.443	1.00	33.01		C
ANISOU	5775	CB	GLU	F	396	3825	5402	3315	-41	-139	-461	C
ATOM	5776	CG	GLU	F	396	21.538	-1.987	-45.467	1.00	35.48		C
ANISOU	5776	CG	GLU	F	396	3973	5718	3789	-35	-123	-581	C
ATOM	5777	CD	GLU	F	396	20.680	-0.802	-44.997	1.00	38.57		C
ANISOU	5777	CD	GLU	F	396	4281	6037	4338	44	-103	-589	C
ATOM	5778	OE1	GLU	F	396	21.223	0.325	-44.807	1.00	39.47		O
ANISOU	5778	OE1	GLU	F	396	4500	6075	4423	99	-126	-482	O
ATOM	5779	OE2	GLU	F	396	19.447	-1.008	-44.817	1.00	35.64		O
ANISOU	5779	OE2	GLU	F	396	3729	5680	4133	47	-55	-721	O
ATOM	5780	C	GLU	F	396	25.163	-2.938	-46.052	1.00	31.50		C
ANISOU	5780	C	GLU	F	396	3762	5332	2874	-69	-168	-417	C
ATOM	5781	O	GLU	F	396	25.290	-3.588	-47.089	1.00	32.61		O
ANISOU	5781	O	GLU	F	396	3871	5579	2942	-56	-221	-449	O
ATOM	5782	N	ALA	F	397	26.128	-2.156	-45.567	1.00	30.36		N
ANISOU	5782	N	ALA	F	397	3680	5169	2688	-79	-159	-334	N
ATOM	5783	CA	ALA	F	397	27.425	-2.017	-46.242	1.00	30.05		C
ANISOU	5783	CA	ALA	F	397	3636	5250	2530	-86	-193	-277	C
ATOM	5784	CB	ALA	F	397	28.335	-0.987	-45.512	1.00	29.70		C
ANISOU	5784	CB	ALA	F	397	3637	5170	2479	-140	-180	-206	C
ATOM	5785	C	ALA	F	397	28.164	-3.342	-46.421	1.00	29.77		C
ANISOU	5785	C	ALA	F	397	3596	5288	2428	-49	-182	-356	C
ATOM	5786	O	ALA	F	397	28.768	-3.583	-47.484	1.00	30.19		O
ANISOU	5786	O	ALA	F	397	3600	5481	2390	-35	-195	-364	O
ATOM	5787	N	ILE	F	398	28.116	-4.184	-45.387	1.00	29.18		N
ANISOU	5787	N	ILE	F	398	3597	5103	2385	-28	-151	-416	N
ATOM	5788	CA	ILE	F	398	28.785	-5.500	-45.391	1.00	29.82		C
ANISOU	5788	CA	ILE	F	398	3721	5193	2418	45	-156	-491	C
ATOM	5789	CB	ILE	F	398	28.763	-6.184	-43.978	1.00	30.01		C
ANISOU	5789	CB	ILE	F	398	3908	5042	2453	64	-137	-511	C
ATOM	5790	CG1	ILE	F	398	29.506	-5.325	-42.937	1.00	28.78		C
ANISOU	5790	CG1	ILE	F	398	3784	4871	2279	53	-173	-446	C
ATOM	5791	CD1	ILE	F	398	29.361	-5.799	-41.514	1.00	29.65		C
ANISOU	5791	CD1	ILE	F	398	4105	4806	2357	54	-162	-447	C
ATOM	5792	CG2	ILE	F	398	29.370	-7.571	-44.042	1.00	30.84		C
ANISOU	5792	CG2	ILE	F	398	4096	5109	2512	173	-164	-580	C
ATOM	5793	C	ILE	F	398	28.199	-6.428	-46.466	1.00	30.35		C
ANISOU	5793	C	ILE	F	398	3770	5297	2466	59	-152	-577	C
ATOM	5794	O	ILE	F	398	28.943	-7.040	-47.237	1.00	31.40		O
ANISOU	5794	O	ILE	F	398	3877	5526	2528	124	-162	-630	O
ATOM	5795	N	ILE	F	399	26.868	-6.485	-46.522	1.00	30.23		N
ANISOU	5795	N	ILE	F	399	3752	5216	2518	-8	-136	-610	N
ATOM	5796	CA	ILE	F	399	26.139	-7.273	-47.508	1.00	30.68		C
ANISOU	5796	CA	ILE	F	399	3781	5309	2565	-31	-156	-710	C
ATOM	5797	CB	ILE	F	399	24.585	-7.231	-47.249	1.00	31.14		C
ANISOU	5797	CB	ILE	F	399	3785	5298	2749	-126	-136	-763	C
ATOM	5798	CG1	ILE	F	399	24.226	-7.902	-45.914	1.00	29.45		C
ANISOU	5798	CG1	ILE	F	399	3695	4892	2602	-193	-16	-803	C
ATOM	5799	CD1	ILE	F	399	22.950	-7.376	-45.272	1.00	29.44		C
ANISOU	5799	CD1	ILE	F	399	3606	4839	2739	-287	62	-831	C
ATOM	5800	CG2	ILE	F	399	23.800	-7.896	-48.410	1.00	32.52		C
ANISOU	5800	CG2	ILE	F	399	3891	5551	2914	-170	-202	-881	C
ATOM	5801	C	ILE	F	399	26.479	-6.784	-48.919	1.00	31.25		C
ANISOU	5801	C	ILE	F	399	3772	5569	2531	-6	-226	-685	C

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Figure 18 (continued)

ATOM	5802	O	ILE	F	399	26.773	-7.594	-49.799	1.00	32.29	
ANISOU	5802	O	ILE	F	399	3926	5770	2572	20	-235	-772
ATOM	5803	N	VAL	F	400	26.442	-5.468	-49.127	1.00	31.26	
ANISOU	5803	N	VAL	F	400	3717	5633	2527	-17	-266	-569
ATOM	5804	CA	VAL	F	400	26.703	-4.862	-50.439	1.00	31.99	
ANISOU	5804	CA	VAL	F	400	3791	5879	2484	-16	-326	-512
ATOM	5805	CB	VAL	F	400	26.552	-3.321	-50.424	1.00	32.28	
ANISOU	5805	CB	VAL	F	400	3826	5904	2535	-32	-369	-359
ATOM	5806	CG1	VAL	F	400	27.154	-2.712	-51.702	1.00	31.55	
ANISOU	5806	CG1	VAL	F	400	3785	5949	2253	-57	-395	-270
ATOM	5807	CG2	VAL	F	400	25.081	-2.906	-50.237	1.00	31.82	
ANISOU	5807	CG2	VAL	F	400	3714	5767	2609	-9	-454	-364
ATOM	5808	C	VAL	F	400	28.110	-5.188	-50.913	1.00	32.53	
ANISOU	5808	C	VAL	F	400	3873	6063	2424	4	-258	-527
ATOM	5809	O	VAL	F	400	28.320	-5.462	-52.094	1.00	33.48	
ANISOU	5809	O	VAL	F	400	4010	6312	2399	3	-262	-566
ATOM	5810	N	ALA	F	401	29.054	-5.149	-49.973	1.00	31.73	
ANISOU	5810	N	ALA	F	401	3756	5926	2375	25	-198	-510
ATOM	5811	CA	ALA	F	401	30.462	-5.417	-50.239	1.00	32.29	
ANISOU	5811	CA	ALA	F	401	3773	6123	2374	61	-131	-547
ATOM	5812	CB	ALA	F	401	31.316	-4.940	-49.082	1.00	31.23	
ANISOU	5812	CB	ALA	F	401	3591	5955	2320	61	-122	-500
ATOM	5813	C	ALA	F	401	30.738	-6.885	-50.529	1.00	32.85	
ANISOU	5813	C	ALA	F	401	3863	6199	2419	165	-106	-703
ATOM	5814	O	ALA	F	401	31.652	-7.205	-51.280	1.00	34.52	
ANISOU	5814	O	ALA	F	401	4018	6556	2542	209	-41	-775
ATOM	5815	N	MSE	F	402	29.963	-7.768	-49.913	1.00	32.87	
ANISOU	5815	N	MSE	F	402	3957	6031	2501	198	-138	-765
ATOM	5816	CA	MSE	F	402	30.121	-9.221	-50.081	1.00	34.29	
ANISOU	5816	CA	MSE	F	402	4216	6142	2669	295	-120	-914
ATOM	5817	CB	MSE	F	402	29.405	-10.001	-48.955	1.00	33.61	
ANISOU	5817	CB	MSE	F	402	4274	5812	2686	294	-135	-936
ATOM	5818	CG	MSE	F	402	30.159	-10.004	-47.602	1.00	34.31	
ANISOU	5818	CG	MSE	F	402	4411	5796	2829	379	-152	-874
ATOM	5819	SE	MSE	F	402	29.225	-10.945	-46.127	0.90	35.69	SE
ANISOU	5819	SE	MSE	F	402	4858	5634	3068	337	-136	-872
ATOM	5820	CE	MSE	F	402	30.613	-10.934	-44.782	1.00	35.68	
ANISOU	5820	CE	MSE	F	402	4931	5574	3050	510	-223	-797
ATOM	5821	C	MSE	F	402	29.589	-9.629	-51.439	1.00	34.50	
ANISOU	5821	C	MSE	F	402	4268	6255	2587	255	-119	-1011
ATOM	5822	O	MSE	F	402	30.190	-10.441	-52.110	1.00	36.42	
ANISOU	5822	O	MSE	F	402	4535	6549	2753	337	-73	-1137
ATOM	5823	N	VAL	F	403	28.465	-9.043	-51.840	1.00	34.25	
ANISOU	5823	N	VAL	F	403	4226	6243	2545	142	-183	-962
ATOM	5824	CA	VAL	F	403	27.919	-9.227	-53.188	1.00	34.82	
ANISOU	5824	CA	VAL	F	403	4323	6427	2480	94	-232	-1038
ATOM	5825	CB	VAL	F	403	26.495	-8.620	-53.318	1.00	34.53	
ANISOU	5825	CB	VAL	F	403	4248	6380	2494	0	-356	-989
ATOM	5826	CG1	VAL	F	403	25.966	-8.754	-54.767	1.00	35.80	
ANISOU	5826	CG1	VAL	F	403	4442	6680	2479	-40	-460	-1064
ATOM	5827	CG2	VAL	F	403	25.531	-9.291	-52.314	1.00	33.68	
ANISOU	5827	CG2	VAL	F	403	4139	6086	2573	-50	-354	-1061
ATOM	5828	C	VAL	F	403	28.878	-8.653	-54.249	1.00	35.95	
ANISOU	5828	C	VAL	F	403	4446	6779	2433	106	-179	-1003
ATOM	5829	O	VAL	F	403	29.190	-9.332	-55.244	1.00	37.21	
ANISOU	5829	O	VAL	F	403	4664	7031	2443	127	-138	-1133
ATOM	5830	N	PHE	F	404	29.347	-7.420	-54.010	1.00	34.96	
ANISOU	5830	N	PHE	F	404	4259	6715	2308	72	-159	-839
ATOM	5831	CA	PHE	F	404	30.282	-6.688	-54.895	1.00	36.53	
ANISOU	5831	CA	PHE	F	404	4449	7101	2332	28	-72	-777
ATOM	5832	CB	PHE	F	404	30.606	-5.293	-54.309	1.00	35.90	
ANISOU	5832	CB	PHE	F	404	4324	7008	2310	-45	-63	-589
ATOM	5833	CG	PHE	F	404	31.373	-4.375	-55.245	1.00	37.51	
ANISOU	5833	CG	PHE	F	404	4558	7371	2322	-153	35	-495
ATOM	5834	CD1	PHE	F	404	30.713	-3.660	-56.254	1.00	38.35	
ANISOU	5834	CD1	PHE	F	404	4819	7508	2243	-225	-40	-382
ATOM	5835	CE1	PHE	F	404	31.414	-2.801	-57.112	1.00	37.22	
ANISOU	5835	CE1	PHE	F	404	4768	7483	1890	-354	72	-274
ATOM	5836	CZ	PHE	F	404	32.771	-2.645	-56.966	1.00	39.43	
ANISOU	5836	CZ	PHE	F	404	4931	7877	2174	-433	279	-303
ATOM	5837	CE2	PHE	F	404	33.452	-3.342	-55.961	1.00	39.28	

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Figure 18 (continued)

ANISOU	5837	CE2	PHE	F	404	4699	7858	2368	-343	332	-436	C
ATOM	5838	CD2	PHE	F	404	32.747	-4.197	-55.097	1.00	38.17		C
ANISOU	5838	CD2	PHE	F	404	4522	7571	2408	-192	198	-517	C
ATOM	5839	C	PHE	F	404	31.571	-7.463	-55.140	1.00	37.46		C
ANISOU	5839	C	PHE	F	404	4505	7327	2403	103	81	-918	C
ATOM	5840	O	PHE	F	404	32.134	-7.391	-56.225	1.00	39.22		O
ANISOU	5840	O	PHE	F	404	4747	7721	2433	66	186	-960	O
ATOM	5841	N	SER	F	405	32.025	-8.203	-54.131	1.00	37.05		N
ANISOU	5841	N	SER	F	405	4389	7171	2517	221	94	-995	N
ATOM	5842	CA	SER	F	405	33.281	-8.958	-54.222	1.00	39.28		C
ANISOU	5842	CA	SER	F	405	4576	7544	2804	352	212	-1143	C
ATOM	5843	CB	SER	F	405	33.727	-9.455	-52.845	1.00	38.82		C
ANISOU	5843	CB	SER	F	405	4463	7343	2945	492	158	-1160	C
ATOM	5844	OG	SER	F	405	33.038	-10.651	-52.515	1.00	40.42		O
ANISOU	5844	OG	SER	F	405	4824	7332	3201	585	93	-1254	O
ATOM	5845	C	SER	F	405	33.166	-10.136	-55.180	1.00	40.69		C
ANISOU	5845	C	SER	F	405	4856	7736	2869	429	260	-1340	C
ATOM	5846	O	SER	F	405	34.178	-10.658	-55.653	1.00	42.13		O
ANISOU	5846	O	SER	F	405	4962	8038	3005	534	391	-1487	O
ATOM	5847	N	GLN	F	406	31.920	-10.534	-55.450	1.00	40.68		N
ANISOU	5847	N	GLN	F	406	5011	7615	2832	371	155	-1361	N
ATOM	5848	CA	GLN	F	406	31.572	-11.630	-56.381	1.00	42.61		C
ANISOU	5848	CA	GLN	F	406	5392	7843	2954	399	169	-1558	C
ATOM	5849	CB	GLN	F	406	31.955	-11.281	-57.824	1.00	44.04		C
ANISOU	5849	CB	GLN	F	406	5602	8265	2868	332	270	-1606	C
ATOM	5850	CG	GLN	F	406	31.191	-10.103	-58.371	1.00	43.15		C
ANISOU	5850	CG	GLN	F	406	5540	8242	2614	163	170	-1425	C
ATOM	5851	CD	GLN	F	406	31.738	-9.591	-59.677	1.00	44.42		C
ANISOU	5851	CD	GLN	F	406	5768	8633	2476	81	291	-1422	C
ATOM	5852	OE1	GLN	F	406	32.951	-9.500	-59.865	1.00	43.92		O
ANISOU	5852	OE1	GLN	F	406	5611	8710	2369	105	499	-1468	O
ATOM	5853	NE2	GLN	F	406	30.838	-9.241	-60.593	1.00	45.45		N
ANISOU	5853	NE2	GLN	F	406	6064	8814	2393	-23	159	-1372	N
ATOM	5854	C	GLN	F	406	32.173	-12.968	-55.971	1.00	43.95		C
ANISOU	5854	C	GLN	F	406	5600	7871	3227	589	226	-1742	C
ATOM	5855	O	GLN	F	406	32.433	-13.808	-56.819	1.00	46.15		O
ANISOU	5855	O	GLN	F	406	5963	8178	3395	657	304	-1937	O
ATOM	5856	N	GLU	F	407	32.373	-13.145	-54.666	1.00	43.66		N
ANISOU	5856	N	GLU	F	407	5534	7667	3389	684	177	-1678	N
ATOM	5857	CA	GLU	F	407	32.972	-14.356	-54.087	1.00	45.89		C
ANISOU	5857	CA	GLU	F	407	5886	7768	3781	902	190	-1811	C
ATOM	5858	CB	GLU	F	407	33.245	-14.162	-52.597	1.00	44.16		C
ANISOU	5858	CB	GLU	F	407	5633	7413	3733	980	106	-1674	C
ATOM	5859	CG	GLU	F	407	34.489	-13.382	-52.270	1.00	44.97		C
ANISOU	5859	CG	GLU	F	407	5487	7716	3881	1066	133	-1614	C
ATOM	5860	CD	GLU	F	407	35.177	-13.876	-51.008	1.00	45.76		C
ANISOU	5860	CD	GLU	F	407	5591	7667	4127	1279	35	-1602	C
ATOM	5861	OE1	GLU	F	407	34.788	-14.945	-50.485	1.00	46.21		O
ANISOU	5861	OE1	GLU	F	407	5887	7443	4229	1387	-30	-1645	O
ATOM	5862	OE2	GLU	F	407	36.126	-13.199	-50.553	1.00	46.06		O
ANISOU	5862	OE2	GLU	F	407	5409	7866	4226	1332	14	-1552	O
ATOM	5863	C	GLU	F	407	32.093	-15.581	-54.248	1.00	47.47		C
ANISOU	5863	C	GLU	F	407	6337	7722	3977	890	155	-1951	C
ATOM	5864	O	GLU	F	407	30.874	-15.486	-54.144	1.00	46.49		O
ANISOU	5864	O	GLU	F	407	6303	7502	3860	703	80	-1898	O
ATOM	5865	N	ASP	F	408	32.713	-16.737	-54.463	1.00	51.07		N
ANISOU	5865	N	ASP	F	408	6898	8065	4441	1090	210	-2142	N
ATOM	5866	CA	ASP	F	408	31.942	-17.949	-54.697	1.00	53.71		C
ANISOU	5866	CA	ASP	F	408	7506	8138	4762	1059	193	-2300	C
ATOM	5867	CB	ASP	F	408	32.753	-19.039	-55.396	1.00	56.74		C
ANISOU	5867	CB	ASP	F	408	7989	8471	5099	1286	290	-2553	C
ATOM	5868	CG	ASP	F	408	31.879	-19.947	-56.264	1.00	60.34		C
ANISOU	5868	CG	ASP	F	408	8697	8784	5445	1155	300	-2755	C
ATOM	5869	OD1	ASP	F	408	31.500	-19.542	-57.393	1.00	61.41		O
ANISOU	5869	OD1	ASP	F	408	8794	9144	5396	993	324	-2821	O
ATOM	5870	OD2	ASP	F	408	31.573	-21.074	-55.817	1.00	63.81		O
ANISOU	5870	OD2	ASP	F	408	9399	8875	5969	1205	273	-2849	O
ATOM	5871	C	ASP	F	408	31.241	-18.477	-53.441	1.00	53.40		C
ANISOU	5871	C	ASP	F	408	7660	7761	4869	1016	107	-2210	C
ATOM	5872	O	ASP	F	408	30.214	-19.139	-53.548	1.00	54.39		O
ANISOU	5872	O	ASP	F	408	7984	7691	4992	852	89	-2287	O

Figure 18 (continued)

ATOM	5873	N	ACYS	F	409	31.777	-18.185	-52.260	0.50	52.75	N	
ANISOU	5873	N	ACYS	F	409	7531	7613	4899	1137	60	-2057	N
ATOM	5874	N	BCYS	F	409	31.777	-18.185	-52.260	0.50	52.75	N	
ANISOU	5874	N	BCYS	F	409	7531	7613	4899	1137	60	-2057	N
ATOM	5875	CA	ACYS	F	409	31.089	-18.592	-51.034	0.50	52.65	C	
ANISOU	5875	CA	ACYS	F	409	7738	7288	4981	1065	2	-1951	C
ATOM	5876	CA	BCYS	F	409	31.089	-18.592	-51.034	0.50	52.65	C	
ANISOU	5876	CA	BCYS	F	409	7738	7288	4981	1065	2	-1951	C
ATOM	5877	CB	ACYS	F	409	32.047	-18.636	-49.835	0.50	52.96	C	
ANISOU	5877	CB	ACYS	F	409	7800	7221	5099	1305	-69	-1839	C
ATOM	5878	CB	BCYS	F	409	32.047	-18.636	-49.835	0.50	52.96	C	
ANISOU	5878	CB	BCYS	F	409	7800	7221	5099	1305	-69	-1839	C
ATOM	5879	SG	ACYS	F	409	32.091	-17.163	-48.811	0.50	52.55	S	
ANISOU	5879	SG	ACYS	F	409	7540	7342	5085	1205	-130	-1593	S
ATOM	5880	SG	BCYS	F	409	32.091	-17.163	-48.811	0.50	52.55	S	
ANISOU	5880	SG	BCYS	F	409	7540	7342	5085	1205	-130	-1593	S
ATOM	5881	C	ACYS	F	409	29.827	-17.739	-50.774	0.50	50.12	C	
ANISOU	5881	C	ACYS	F	409	7348	7022	4672	755	-13	-1821	C
ATOM	5882	C	BCYS	F	409	29.827	-17.739	-50.774	0.50	50.12	C	
ANISOU	5882	C	BCYS	F	409	7348	7022	4672	755	-13	-1821	C
ATOM	5883	O	ACYS	F	409	28.886	-18.205	-50.136	0.50	50.44	O	
ANISOU	5883	O	ACYS	F	409	7577	6823	4766	597	-7	-1802	O
ATOM	5884	O	BCYS	F	409	28.886	-18.205	-50.136	0.50	50.44	O	
ANISOU	5884	O	BCYS	F	409	7577	6823	4766	597	-7	-1802	O
ATOM	5885	N	MSE	F	410	29.811	-16.507	-51.289	1.00	48.14	N	
ANISOU	5885	N	MSE	F	410	6837	7079	4377	671	-19	-1743	N
ATOM	5886	CA	MSE	F	410	28.586	-15.667	-51.329	1.00	46.32	C	
ANISOU	5886	CA	MSE	F	410	6511	6930	4158	419	-48	-1656	C
ATOM	5887	CB	MSE	F	410	28.941	-14.221	-51.724	1.00	44.79	C	
ANISOU	5887	CB	MSE	F	410	6071	7035	3913	406	-68	-1529	C
ATOM	5888	CG	MSE	F	410	27.762	-13.229	-51.931	1.00	42.99	C	
ANISOU	5888	CG	MSE	F	410	5730	6910	3694	209	-126	-1442	C
ATOM	5889	SE	MSE	F	410	26.955	-13.098	-53.730	0.90	42.31	SE	
ANISOU	5889	SE	MSE	F	410	5600	7035	3439	86	-204	-1557	SE
ATOM	5890	CE	MSE	F	410	28.542	-12.628	-54.751	1.00	41.76	C	
ANISOU	5890	CE	MSE	F	410	5476	7222	3170	230	-121	-1549	C
ATOM	5891	C	MSE	F	410	27.565	-16.259	-52.323	1.00	47.69	C	
ANISOU	5891	C	MSE	F	410	6753	7090	4276	253	-60	-1820	C
ATOM	5892	O	MSE	F	410	26.393	-16.467	-51.992	1.00	47.49	O	
ANISOU	5892	O	MSE	F	410	6775	6944	4327	57	-75	-1837	O
ATOM	5893	N	ILE	F	411	28.020	-16.533	-53.544	1.00	48.99	N	
ANISOU	5893	N	ILE	F	411	6915	7393	4304	318	-48	-1959	N
ATOM	5894	CA	ILE	F	411	27.176	-17.189	-54.556	1.00	50.31	C	
ANISOU	5894	CA	ILE	F	411	7177	7552	4386	171	-80	-2148	C
ATOM	5895	CB	ILE	F	411	27.852	-17.190	-55.945	1.00	51.34	C	
ANISOU	5895	CB	ILE	F	411	7295	7903	4310	257	-53	-2275	C
ATOM	5896	CG1	ILE	F	411	27.605	-15.837	-56.612	1.00	50.21	C	
ANISOU	5896	CG1	ILE	F	411	6965	8064	4047	166	-123	-2142	C
ATOM	5897	CD1	ILE	F	411	28.722	-15.359	-57.495	1.00	52.42	C	
ANISOU	5897	CD1	ILE	F	411	7190	8586	4140	279	-32	-2145	C
ATOM	5898	CG2	ILE	F	411	27.314	-18.312	-56.826	1.00	53.79	C	
ANISOU	5898	CG2	ILE	F	411	7799	8112	4525	167	-66	-2531	C
ATOM	5899	C	ILE	F	411	26.671	-18.575	-54.108	1.00	51.93	C	
ANISOU	5899	C	ILE	F	411	7639	7413	4677	105	-50	-2292	C
ATOM	5900	O	ILE	F	411	25.517	-18.904	-54.355	1.00	53.42	O	
ANISOU	5900	O	ILE	F	411	7863	7547	4889	-126	-93	-2390	O
ATOM	5901	N	LYS	F	412	27.502	-19.356	-53.416	1.00	52.22	N	
ANISOU	5901	N	LYS	F	412	7857	7215	4771	298	14	-2301	N
ATOM	5902	CA	LYS	F	412	27.074	-20.655	-52.866	1.00	53.75	C	
ANISOU	5902	CA	LYS	F	412	8365	7019	5038	237	51	-2401	C
ATOM	5903	CB	LYS	F	412	28.288	-21.518	-52.480	1.00	55.14	C	
ANISOU	5903	CB	LYS	F	412	8752	6970	5227	556	88	-2438	C
ATOM	5904	CG	LYS	F	412	29.038	-22.152	-53.648	1.00	57.75	C	
ANISOU	5904	CG	LYS	F	412	9134	7352	5454	744	126	-2667	C
ATOM	5905	CD	LYS	F	412	28.231	-23.272	-54.325	1.00	61.07	C	
ANISOU	5905	CD	LYS	F	412	9825	7547	5831	564	149	-2906	C
ATOM	5906	CE	LYS	F	412	28.940	-23.834	-55.572	1.00	63.36	C	
ANISOU	5906	CE	LYS	F	412	10174	7912	5988	740	204	-3162	C
ATOM	5907	NZ	LYS	F	412	28.944	-22.908	-56.735	1.00	61.64	N	
ANISOU	5907	NZ	LYS	F	412	9691	8127	5602	663	198	-3197	N
ATOM	5908	C	LYS	F	412	26.100	-20.546	-51.670	1.00	52.80	C	

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Figure 18 (continued)

ANISOU	5908	C	LYS	F	412	8297	6719	5046	18	66	-2268	C
ATOM	5909	O	LYS	F	412	25.481	-21.540	-51.279	1.00	54.85		O
ANISOU	5909	O	LYS	F	412	8819	6665	5356	-135	119	-2349	O
ATOM	5910	N	ALA	F	413	25.965	-19.345	-51.104	1.00	50.11		N
ANISOU	5910	N	ALA	F	413	7723	6567	4749	-13	43	-2077	N
ATOM	5911	CA	ALA	F	413	25.099	-19.097	-49.933	1.00	48.96		C
ANISOU	5911	CA	ALA	F	413	7598	6290	4712	-206	90	-1956	C
ATOM	5912	CB	ALA	F	413	25.724	-18.033	-49.014	1.00	46.53		C
ANISOU	5912	CB	ALA	F	413	7166	6089	4424	-67	75	-1735	C
ATOM	5913	C	ALA	F	413	23.642	-18.733	-50.269	1.00	48.81		C
ANISOU	5913	C	ALA	F	413	7393	6390	4762	-515	84	-2024	C
ATOM	5914	O	ALA	F	413	22.815	-18.557	-49.364	1.00	48.53		O
ANISOU	5914	O	ALA	F	413	7342	6265	4831	-700	159	-1964	O
ATOM	5915	N	VAL	F	414	23.341	-18.612	-51.562	1.00	49.08		N
ANISOU	5915	N	VAL	F	414	7279	6637	4730	-561	-7	-2158	N
ATOM	5916	CA	VAL	F	414	21.970	-18.436	-52.037	1.00	49.54		C
ANISOU	5916	CA	VAL	F	414	7153	6817	4854	-830	-65	-2269	C
ATOM	5917	CB	VAL	F	414	21.929	-18.102	-53.563	1.00	50.27		C
ANISOU	5917	CB	VAL	F	414	7101	7196	4804	-801	-222	-2378	C
ATOM	5918	CG1	VAL	F	414	20.491	-17.927	-54.072	1.00	49.09		C
ANISOU	5918	CG1	VAL	F	414	6737	7190	4726	-1054	-341	-2505	C
ATOM	5919	CG2	VAL	F	414	22.757	-16.861	-53.860	1.00	47.46		C
ANISOU	5919	CG2	VAL	F	414	6588	7096	4350	-582	-280	-2198	C
ATOM	5920	C	VAL	F	414	21.156	-19.706	-51.750	1.00	52.59		C
ANISOU	5920	C	VAL	F	414	7748	6913	5322	-1091	27	-2442	C
ATOM	5921	O	VAL	F	414	21.612	-20.824	-52.012	1.00	54.19		O
ANISOU	5921	O	VAL	F	414	8243	6888	5458	-1056	66	-2564	O
ATOM	5922	N	ARG	F	415	19.960	-19.513	-51.195	1.00	53.57		N
ANISOU	5922	N	ARG	F	415	7719	7037	5597	-1355	78	-2459	N
ATOM	5923	CA	ARG	F	415	19.009	-20.599	-50.933	1.00	56.86		C
ANISOU	5923	CA	ARG	F	415	8279	7213	6113	-1686	189	-2636	C
ATOM	5924	CB	ARG	F	415	18.679	-20.667	-49.434	1.00	56.75		C
ANISOU	5924	CB	ARG	F	415	8382	6972	6208	-1824	400	-2512	C
ATOM	5925	CG	ARG	F	415	19.868	-20.954	-48.513	1.00	56.55		C
ANISOU	5925	CG	ARG	F	415	8721	6681	6086	-1584	482	-2321	C
ATOM	5926	CD	ARG	F	415	20.259	-22.434	-48.501	1.00	61.81		C
ANISOU	5926	CD	ARG	F	415	9852	6947	6685	-1607	548	-2415	C
ATOM	5927	NE	ARG	F	415	21.475	-22.674	-47.715	1.00	62.49		N
ANISOU	5927	NE	ARG	F	415	10262	6805	6676	-1304	561	-2235	N
ATOM	5928	CZ	ARG	F	415	22.689	-22.855	-48.237	1.00	62.58		C
ANISOU	5928	CZ	ARG	F	415	10363	6824	6592	-954	445	-2229	C
ATOM	5929	NH1	ARG	F	415	22.868	-22.842	-49.557	1.00	61.25		N
ANISOU	5929	NH1	ARG	F	415	10028	6864	6379	-878	340	-2390	N
ATOM	5930	NH2	ARG	F	415	23.727	-23.063	-47.431	1.00	62.31		N
ANISOU	5930	NH2	ARG	F	415	10583	6594	6498	-677	434	-2075	N
ATOM	5931	C	ARG	F	415	17.730	-20.345	-51.734	1.00	58.42		C
ANISOU	5931	C	ARG	F	415	8134	7663	6402	-1935	70	-2824	C
ATOM	5932	O	ARG	F	415	17.145	-19.259	-51.654	1.00	58.20		O
ANISOU	5932	O	ARG	F	415	7749	7898	6468	-1933	2	-2757	O
ATOM	5933	N	GLY	F	416	17.295	-21.329	-52.509	1.00	61.08		N
ANISOU	5933	N	GLY	F	416	8575	7920	6715	-2136	26	-3069	N
ATOM	5934	CA	GLY	F	416	16.104	-21.163	-53.341	1.00	62.81		C
ANISOU	5934	CA	GLY	F	416	8459	8396	7010	-2372	-136	-3277	C
ATOM	5935	C	GLY	F	416	16.429	-20.481	-54.658	1.00	61.99		C
ANISOU	5935	C	GLY	F	416	8200	8622	6732	-2155	-406	-3291	C
ATOM	5936	O	GLY	F	416	17.592	-20.198	-54.941	1.00	59.93		O
ANISOU	5936	O	GLY	F	416	8093	8382	6296	-1854	-424	-3155	O
ATOM	5937	N	ASP	F	417	15.403	-20.224	-55.467	1.00	63.90		N
ANISOU	5937	N	ASP	F	417	8138	9127	7013	-2314	-618	-3460	N
ATOM	5938	CA	ASP	F	417	15.591	-19.601	-56.780	1.00	64.06		C
ANISOU	5938	CA	ASP	F	417	8056	9458	6828	-2137	-900	-3476	C
ATOM	5939	CB	ASP	F	417	14.602	-20.172	-57.801	1.00	67.95		C
ANISOU	5939	CB	ASP	F	417	8438	10082	7298	-2398	-1118	-3786	C
ATOM	5940	CG	ASP	F	417	15.090	-21.481	-58.420	1.00	70.01		C
ANISOU	5940	CG	ASP	F	417	9098	10118	7385	-2495	-1067	-4000	C
ATOM	5941	OD1	ASP	F	417	16.312	-21.756	-58.345	1.00	67.20		O
ANISOU	5941	OD1	ASP	F	417	9070	9582	6879	-2269	-919	-3895	O
ATOM	5942	OD2	ASP	F	417	14.257	-22.228	-58.994	1.00	73.52		O
ANISOU	5942	OD2	ASP	F	417	9518	10568	7849	-2792	-1180	-4292	O
ATOM	5943	C	ASP	F	417	15.497	-18.081	-56.723	1.00	62.18		C
ANISOU	5943	C	ASP	F	417	7507	9500	6617	-1920	-1034	-3253	C

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Figure 18 (continued)

ATOM	5944	O	ASP	F	417	14.874	-17.529	-55.816	1.00	61.19	O	
ANISOU	5944	O	ASP	F	417	7135	9393	6721	-1970	-960	-3173	O
ATOM	5945	N	LEU	F	418	16.133	-17.413	-57.685	1.00	61.75	N	
ANISOU	5945	N	LEU	F	418	7496	9647	6320	-1686	-1210	-3156	N
ATOM	5946	CA	LEU	F	418	16.118	-15.948	-57.745	1.00	60.49	C	
ANISOU	5946	CA	LEU	F	418	7114	9719	6152	-1472	-1351	-2931	C
ATOM	5947	CB	LEU	F	418	17.537	-15.398	-57.923	1.00	57.76	C	
ANISOU	5947	CB	LEU	F	418	6989	9374	5583	-1201	-1274	-2707	C
ATOM	5948	CG	LEU	F	418	18.593	-15.816	-56.888	1.00	55.19	C	
ANISOU	5948	CG	LEU	F	418	6875	8788	5307	-1122	-976	-2599	C
ATOM	5949	CD1	LEU	F	418	19.955	-15.240	-57.229	1.00	53.26	C	
ANISOU	5949	CD1	LEU	F	418	6775	8610	4852	-874	-930	-2422	C
ATOM	5950	CD2	LEU	F	418	18.177	-15.419	-55.497	1.00	52.84	C	
ANISOU	5950	CD2	LEU	F	418	6426	8377	5273	-1162	-838	-2481	C
ATOM	5951	C	LEU	F	418	15.138	-15.398	-58.802	1.00	63.79	C	
ANISOU	5951	C	LEU	F	418	7283	10437	6516	-1492	-1711	-3027	C
ATOM	5952	O	LEU	F	418	15.392	-15.465	-60.017	1.00	65.29	O	
ANISOU	5952	O	LEU	F	418	7619	10766	6424	-1442	-1904	-3087	O
ATOM	5953	N	ASN	F	419	14.019	-14.860	-58.308	1.00	65.15	N	
ANISOU	5953	N	ASN	F	419	7085	10711	6958	-1553	-1798	-3047	N
ATOM	5954	CA	ASN	F	419	12.905	-14.410	-59.137	1.00	69.14	C	
ANISOU	5954	CA	ASN	F	419	7285	11496	7490	-1571	-2166	-3170	C
ATOM	5955	CB	ASN	F	419	11.688	-15.328	-58.915	1.00	72.59	C	
ANISOU	5955	CB	ASN	F	419	7461	11934	8184	-1910	-2173	-3488	C
ATOM	5956	CG	ASN	F	419	11.896	-16.734	-59.469	1.00	75.06	C	
ANISOU	5956	CG	ASN	F	419	8060	12114	8344	-2158	-2126	-3731	C
ATOM	5957	OD1	ASN	F	419	12.169	-16.915	-60.657	1.00	76.13	O	
ANISOU	5957	OD1	ASN	F	419	8378	12363	8185	-2114	-2350	-3807	O
ATOM	5958	ND2	ASN	F	419	11.741	-17.738	-58.608	1.00	76.18	N	
ANISOU	5958	ND2	ASN	F	419	8272	11998	8674	-2427	-1828	-3861	N
ATOM	5959	C	ASN	F	419	12.492	-12.941	-58.929	1.00	68.82	C	
ANISOU	5959	C	ASN	F	419	6962	11617	7568	-1329	-2328	-2971	C
ATOM	5960	O	ASN	F	419	11.329	-12.583	-59.159	1.00	71.70	O	
ANISOU	5960	O	ASN	F	419	6960	12179	8104	-1346	-2585	-3092	O
ATOM	5961	N	PHE	F	420	13.438	-12.093	-58.525	1.00	65.87	N	
ANISOU	5961	N	PHE	F	420	6754	11162	7112	-1099	-2193	-2683	N
ATOM	5962	CA	PHE	F	420	13.118	-10.705	-58.172	1.00	65.85	C	
ANISOU	5962	CA	PHE	F	420	6538	11242	7241	-872	-2295	-2489	C
ATOM	5963	CB	PHE	F	420	14.226	-10.056	-57.331	1.00	61.88	C	
ANISOU	5963	CB	PHE	F	420	6236	10564	6710	-720	-2025	-2217	C
ATOM	5964	CG	PHE	F	420	14.370	-10.644	-55.947	1.00	60.67	C	
ANISOU	5964	CG	PHE	F	420	6083	10193	6774	-865	-1658	-2251	C
ATOM	5965	CD1	PHE	F	420	15.369	-11.592	-55.674	1.00	58.71	C	
ANISOU	5965	CD1	PHE	F	420	6148	9758	6401	-954	-1418	-2253	C
ATOM	5966	CE1	PHE	F	420	15.511	-12.143	-54.394	1.00	56.02	C	
ANISOU	5966	CE1	PHE	F	420	5866	9196	6224	-1073	-1110	-2262	C
ATOM	5967	CZ	PHE	F	420	14.657	-11.740	-53.367	1.00	56.93	C	
ANISOU	5967	CZ	PHE	F	420	5728	9288	6616	-1135	-998	-2278	C
ATOM	5968	CE2	PHE	F	420	13.656	-10.794	-53.617	1.00	59.27	C	
ANISOU	5968	CE2	PHE	F	420	5671	9783	7065	-1048	-1201	-2302	C
ATOM	5969	CD2	PHE	F	420	13.516	-10.248	-54.907	1.00	61.33	C	
ANISOU	5969	CD2	PHE	F	420	5874	10254	7176	-897	-1551	-2282	C
ATOM	5970	C	PHE	F	420	12.752	-9.824	-59.370	1.00	68.72	C	
ANISOU	5970	C	PHE	F	420	6852	11834	7423	-675	-2718	-2421	C
ATOM	5971	O	PHE	F	420	13.329	-9.934	-60.459	1.00	69.39	O	
ANISOU	5971	O	PHE	F	420	7220	11989	7156	-637	-2864	-2384	O
ATOM	5972	N	VAL	F	421	11.776	-8.954	-59.131	1.00	70.81	N	
ANISOU	5972	N	VAL	F	421	6770	12208	7928	-541	-2906	-2410	N
ATOM	5973	CA	VAL	F	421	11.229	-8.033	-60.118	1.00	74.14	C	
ANISOU	5973	CA	VAL	F	421	7105	12827	8236	-313	-3351	-2341	C
ATOM	5974	CB	VAL	F	421	9.792	-8.485	-60.500	1.00	78.54	C	
ANISOU	5974	CB	VAL	F	421	7234	13606	9001	-421	-3660	-2651	C
ATOM	5975	CG1	VAL	F	421	8.878	-7.313	-60.807	1.00	82.04	C	
ANISOU	5975	CG1	VAL	F	421	7378	14217	9575	-122	-4060	-2593	C
ATOM	5976	CG2	VAL	F	421	9.832	-9.491	-61.650	1.00	80.93	C	
ANISOU	5976	CG2	VAL	F	421	7719	14022	9009	-611	-3856	-2839	C
ATOM	5977	C	VAL	F	421	11.256	-6.621	-59.499	1.00	73.25	C	
ANISOU	5977	C	VAL	F	421	6923	12642	8268	-29	-3339	-2091	C
ATOM	5978	O	VAL	F	421	11.324	-6.490	-58.270	1.00	71.13	O	
ANISOU	5978	O	VAL	F	421	6541	12226	8260	-56	-3019	-2067	O
ATOM	5979	N	ASN	F	422	11.235	-5.578	-60.335	1.00	75.33	N	

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Figure 18 (continued)

ANISOU	5979	N	ASN	F	422	7301	12982	8339	236	-3678	-1903	N
ATOM	5980	CA	ASN	F	422	11.155	-4.182	-59.848	1.00	75.16		C
ANISOU	5980	CA	ASN	F	422	7234	12867	8457	526	-3716	-1678	C
ATOM	5981	CB	ASN	F	422	11.971	-3.211	-60.732	1.00	75.42		C
ANISOU	5981	CB	ASN	F	422	7709	12848	8099	726	-3890	-1361	C
ATOM	5982	CG	ASN	F	422	11.733	-3.403	-62.234	1.00	78.66		C
ANISOU	5982	CG	ASN	F	422	8283	13451	8152	754	-4312	-1386	C
ATOM	5983	OD1	ASN	F	422	12.644	-3.194	-63.032	1.00	78.39		O
ANISOU	5983	OD1	ASN	F	422	8691	13389	7703	758	-4323	-1195	O
ATOM	5984	ND2	ASN	F	422	10.515	-3.784	-62.621	1.00	82.48		N
ANISOU	5984	ND2	ASN	F	422	8411	14140	8786	763	-4655	-1629	N
ATOM	5985	C	ASN	F	422	9.730	-3.647	-59.623	1.00	78.75		C
ANISOU	5985	C	ASN	F	422	7196	13446	9279	707	-3985	-1818	C
ATOM	5986	O	ASN	F	422	8.770	-4.093	-60.259	1.00	82.55		O
ANISOU	5986	O	ASN	F	422	7398	14147	9820	676	-4307	-2041	O
ATOM	5987	N	ASN	F	425	7.024	-4.833	-63.856	1.00	98.86		N
ANISOU	5987	N	ASN	F	425	9351	16900	11312	750	-5734	-2397	N
ATOM	5988	CA	ASN	F	425	7.135	-6.277	-63.620	1.00	97.53		C
ANISOU	5988	CA	ASN	F	425	9123	16747	11187	326	-5436	-2676	C
ATOM	5989	CB	ASN	F	425	5.828	-6.981	-64.027	1.00	102.75		C
ANISOU	5989	CB	ASN	F	425	9296	17692	12053	177	-5785	-3064	C
ATOM	5990	CG	ASN	F	425	5.624	-8.316	-63.314	1.00	102.31		C
ANISOU	5990	CG	ASN	F	425	9017	17603	12253	-265	-5400	-3381	C
ATOM	5991	OD1	ASN	F	425	5.938	-8.463	-62.125	1.00	99.34		O
ANISOU	5991	OD1	ASN	F	425	8595	17029	12122	-377	-4908	-3350	O
ATOM	5992	ND2	ASN	F	425	5.084	-9.292	-64.040	1.00	106.55		N
ANISOU	5992	ND2	ASN	F	425	9446	18321	12716	-527	-5632	-3690	N
ATOM	5993	C	ASN	F	425	8.361	-6.918	-64.312	1.00	94.87		C
ANISOU	5993	C	ASN	F	425	9373	16317	10355	150	-5275	-2581	C
ATOM	5994	O	ASN	F	425	8.342	-8.097	-64.685	1.00	95.60		O
ANISOU	5994	O	ASN	F	425	9505	16474	10347	-145	-5240	-2830	O
ATOM	5995	N	GLN	F	426	9.430	-6.136	-64.450	1.00	91.71		N
ANISOU	5995	N	GLN	F	426	9420	15760	9667	322	-5153	-2238	N
ATOM	5996	CA	GLN	F	426	10.599	-6.536	-65.229	1.00	89.89		C
ANISOU	5996	CA	GLN	F	426	9732	15477	8946	211	-5027	-2133	C
ATOM	5997	CB	GLN	F	426	11.215	-5.312	-65.891	1.00	90.44		C
ANISOU	5997	CB	GLN	F	426	10206	15499	8656	478	-5188	-1769	C
ATOM	5998	CG	GLN	F	426	10.299	-4.689	-66.940	1.00	97.68		C
ANISOU	5998	CG	GLN	F	426	11101	16610	9404	704	-5808	-1744	C
ATOM	5999	CD	GLN	F	426	10.355	-3.172	-66.960	1.00	99.86		C
ANISOU	5999	CD	GLN	F	426	11537	16771	9635	1056	-5984	-1390	C
ATOM	6000	OE1	GLN	F	426	10.705	-2.530	-65.963	1.00	97.48		O
ANISOU	6000	OE1	GLN	F	426	11179	16268	9590	1145	-5681	-1230	O
ATOM	6001	NE2	GLN	F	426	9.997	-2.588	-68.101	1.00	105.16		N
ANISOU	6001	NE2	GLN	F	426	12440	17552	9963	1259	-6492	-1268	N
ATOM	6002	C	GLN	F	426	11.620	-7.231	-64.357	1.00	84.44		C
ANISOU	6002	C	GLN	F	426	9182	14578	8323	4	-4459	-2135	C
ATOM	6003	O	GLN	F	426	11.740	-6.912	-63.176	1.00	81.85		O
ANISOU	6003	O	GLN	F	426	8691	14096	8313	37	-4164	-2056	O
ATOM	6004	N	ARG	F	427	12.359	-8.169	-64.948	1.00	83.25		N
ANISOU	6004	N	ARG	F	427	9349	14421	7862	-189	-4319	-2232	N
ATOM	6005	CA	ARG	F	427	13.309	-9.025	-64.224	1.00	78.32		C
ANISOU	6005	CA	ARG	F	427	8863	13606	7291	-373	-3826	-2279	C
ATOM	6006	CB	ARG	F	427	13.485	-10.355	-64.972	1.00	80.10		C
ANISOU	6006	CB	ARG	F	427	9276	13874	7285	-608	-3811	-2550	C
ATOM	6007	CG	ARG	F	427	14.098	-11.462	-64.139	1.00	76.56		C
ANISOU	6007	CG	ARG	F	427	8883	13214	6993	-803	-3370	-2682	C
ATOM	6008	CD	ARG	F	427	14.519	-12.666	-64.971	1.00	77.87		C
ANISOU	6008	CD	ARG	F	427	9339	13376	6870	-982	-3325	-2916	C
ATOM	6009	NE	ARG	F	427	15.694	-13.289	-64.368	1.00	73.46		N
ANISOU	6009	NE	ARG	F	427	9005	12591	6315	-1013	-2884	-2889	N
ATOM	6010	CZ	ARG	F	427	15.669	-14.203	-63.397	1.00	71.27		C
ANISOU	6010	CZ	ARG	F	427	8652	12105	6323	-1165	-2616	-3026	C
ATOM	6011	NH1	ARG	F	427	14.518	-14.649	-62.913	1.00	72.31		N
ANISOU	6011	NH1	ARG	F	427	8487	12227	6763	-1350	-2697	-3217	N
ATOM	6012	NH2	ARG	F	427	16.809	-14.675	-62.908	1.00	67.90		N
ANISOU	6012	NH2	ARG	F	427	8452	11478	5871	-1132	-2266	-2974	N
ATOM	6013	C	ARG	F	427	14.672	-8.348	-64.009	1.00	74.70		C
ANISOU	6013	C	ARG	F	427	8734	13001	6647	-251	-3533	-1973	C
ATOM	6014	O	ARG	F	427	15.300	-7.904	-64.973	1.00	75.87		O
ANISOU	6014	O	ARG	F	427	9220	13212	6395	-172	-3625	-1821	O

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Figure 18 (continued)

ATOM	6015	N	LEU	F	428	15.131	-8.282	-62.758	1.00	70.08	N	
ANISOU	6015	N	LEU	F	428	8058	12231	6337	-257	-3177	-1893	N
ATOM	6016	CA	LEU	F	428	16.419	-7.647	-62.441	1.00	66.81	C	
ANISOU	6016	CA	LEU	F	428	7899	11689	5796	-165	-2899	-1630	C
ATOM	6017	CB	LEU	F	428	16.562	-7.399	-60.921	1.00	63.57	C	
ANISOU	6017	CB	LEU	F	428	7303	11097	5755	-149	-2609	-1557	C
ATOM	6018	CG	LEU	F	428	15.516	-6.574	-60.147	1.00	63.89	C	
ANISOU	6018	CG	LEU	F	428	7011	11121	6144	-34	-2730	-1518	C
ATOM	6019	CD1	LEU	F	428	15.697	-6.733	-58.634	1.00	62.28	C	
ANISOU	6019	CD1	LEU	F	428	6672	10736	6257	-96	-2381	-1524	C
ATOM	6020	CD2	LEU	F	428	15.535	-5.103	-60.527	1.00	64.62	C	
ANISOU	6020	CD2	LEU	F	428	7197	11227	6130	203	-2935	-1253	C
ATOM	6021	C	LEU	F	428	17.636	-8.433	-62.980	1.00	65.60	C	
ANISOU	6021	C	LEU	F	428	8076	11517	5330	-268	-2664	-1675	C
ATOM	6022	O	LEU	F	428	17.516	-9.608	-63.330	1.00	66.61	O	
ANISOU	6022	O	LEU	F	428	8239	11668	5402	-417	-2648	-1925	O
ATOM	6023	N	ASN	F	429	18.796	-7.770	-63.056	1.00	63.59	N	
ANISOU	6023	N	ASN	F	429	8056	11222	4884	-191	-2477	-1450	N
ATOM	6024	CA	ASN	F	429	20.054	-8.420	-63.463	1.00	62.44	C	
ANISOU	6024	CA	ASN	F	429	8171	11070	4485	-261	-2205	-1496	C
ATOM	6025	CB	ASN	F	429	21.027	-7.413	-64.103	1.00	63.01	C	
ANISOU	6025	CB	ASN	F	429	8510	11197	4233	-193	-2135	-1245	C
ATOM	6026	CG	ASN	F	429	21.529	-6.363	-63.128	1.00	60.93	C	
ANISOU	6026	CG	ASN	F	429	8175	10809	4167	-113	-1976	-998	C
ATOM	6027	OD1	ASN	F	429	22.477	-6.593	-62.368	1.00	58.51	O	
ANISOU	6027	OD1	ASN	F	429	7839	10412	3980	-137	-1668	-990	O
ATOM	6028	ND2	ASN	F	429	20.914	-5.187	-63.169	1.00	62.71	N	
ANISOU	6028	ND2	ASN	F	429	8387	11023	4418	-6	-2203	-799	N
ATOM	6029	C	ASN	F	429	20.718	-9.203	-62.314	1.00	58.73	C	
ANISOU	6029	C	ASN	F	429	7615	10428	4271	-309	-1860	-1579	C
ATOM	6030	O	ASN	F	429	20.508	-8.869	-61.159	1.00	56.33	O	
ANISOU	6030	O	ASN	F	429	7122	10004	4278	-277	-1781	-1501	O
ATOM	6031	N	PRO	F	430	21.502	-10.253	-62.639	1.00	58.55	N	
ANISOU	6031	N	PRO	F	430	7752	10388	4107	-370	-1665	-1747	N
ATOM	6032	CA	PRO	F	430	22.103	-11.214	-61.701	1.00	56.25	C	
ANISOU	6032	CA	PRO	F	430	7432	9919	4022	-392	-1387	-1860	C
ATOM	6033	CB	PRO	F	430	23.143	-11.919	-62.569	1.00	57.92	C	
ANISOU	6033	CB	PRO	F	430	7882	10184	3943	-387	-1225	-1989	C
ATOM	6034	CG	PRO	F	430	22.512	-11.934	-63.934	1.00	61.22	C	
ANISOU	6034	CG	PRO	F	430	8436	10778	4048	-454	-1472	-2086	C
ATOM	6035	CD	PRO	F	430	21.832	-10.598	-64.041	1.00	61.60	C	
ANISOU	6035	CD	PRO	F	430	8395	10925	4087	-406	-1721	-1851	C
ATOM	6036	C	PRO	F	430	22.770	-10.649	-60.433	1.00	53.25	C	
ANISOU	6036	C	PRO	F	430	6949	9412	3872	-310	-1184	-1672	C
ATOM	6037	O	PRO	F	430	22.727	-11.279	-59.364	1.00	51.32	O	
ANISOU	6037	O	PRO	F	430	6623	8994	3881	-331	-1058	-1737	O
ATOM	6038	N	MSE	F	431	23.393	-9.482	-60.550	1.00	52.56	N	
ANISOU	6038	N	MSE	F	431	6896	9398	3678	-235	-1153	-1444	N
ATOM	6039	CA	MSE	F	431	24.056	-8.867	-59.414	1.00	49.48	C	
ANISOU	6039	CA	MSE	F	431	6418	8904	3479	-176	-983	-1278	C
ATOM	6040	CB	MSE	F	431	25.096	-7.852	-59.885	1.00	49.34	C	
ANISOU	6040	CB	MSE	F	431	6508	8987	3253	-144	-888	-1088	C
ATOM	6041	CG	MSE	F	431	26.338	-8.505	-60.487	1.00	49.79	C	
ANISOU	6041	CG	MSE	F	431	6683	9129	3106	-146	-670	-1196	C
ATOM	6042	SE	MSE	F	431	27.421	-9.500	-59.208	0.90	48.52	SE	
ANISOU	6042	SE	MSE	F	431	6408	8820	3206	-65	-407	-1314	SE
ATOM	6043	CE	MSE	F	431	28.095	-8.003	-58.164	1.00	42.60	C	
ANISOU	6043	CE	MSE	F	431	5533	8047	2607	-51	-331	-1034	C
ATOM	6044	C	MSE	F	431	23.033	-8.245	-58.467	1.00	48.53	C	
ANISOU	6044	C	MSE	F	431	6111	8689	3637	-167	-1099	-1191	C
ATOM	6045	O	MSE	F	431	23.151	-8.389	-57.249	1.00	46.67	O	
ANISOU	6045	O	MSE	F	431	5784	8310	3637	-162	-966	-1179	O
ATOM	6046	N	HIS	F	432	22.022	-7.577	-59.025	1.00	50.21	N	
ANISOU	6046	N	HIS	F	432	6275	8987	3817	-152	-1351	-1142	N
ATOM	6047	CA	HIS	F	432	20.939	-6.996	-58.216	1.00	50.13	C	
ANISOU	6047	CA	HIS	F	432	6049	8909	4088	-120	-1466	-1100	C
ATOM	6048	CB	HIS	F	432	20.214	-5.876	-58.970	1.00	52.12	C	
ANISOU	6048	CB	HIS	F	432	6294	9261	4248	-24	-1753	-971	C
ATOM	6049	CG	HIS	F	432	21.028	-4.628	-59.064	1.00	53.16	C	
ANISOU	6049	CG	HIS	F	432	6589	9363	4245	57	-1703	-709	C
ATOM	6050	ND1	HIS	F	432	21.765	-4.303	-60.183	1.00	56.08	N	

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Figure 18 (continued)

ANISOU	6050	ND1	HIS	F	432	7218	9830	4259	47	-1719	-603	N
ATOM	6051	CE1	HIS	F	432	22.416	-3.175	-59.964	1.00	55.82		C
ANISOU	6051	CE1	HIS	F	432	7296	9724	4188	81	-1633	-377	C
ATOM	6052	NE2	HIS	F	432	22.146	-2.768	-58.736	1.00	53.78		N
ANISOU	6052	NE2	HIS	F	432	6864	9325	4245	128	-1574	-342	N
ATOM	6053	CD2	HIS	F	432	21.287	-3.664	-58.149	1.00	52.46		C
ANISOU	6053	CD2	HIS	F	432	6466	9146	4318	116	-1604	-545	C
ATOM	6054	C	HIS	F	432	19.976	-8.044	-57.680	1.00	50.25		C
ANISOU	6054	C	HIS	F	432	5890	8868	4334	-223	-1472	-1325	C
ATOM	6055	O	HIS	F	432	19.291	-7.825	-56.678	1.00	49.54		O
ANISOU	6055	O	HIS	F	432	5610	8692	4520	-230	-1440	-1330	O
ATOM	6056	N	GLN	F	433	19.961	-9.185	-58.363	1.00	51.26		N
ANISOU	6056	N	GLN	F	433	6103	9036	4336	-321	-1489	-1523	N
ATOM	6057	CA	GLN	F	433	19.267	-10.386	-57.940	1.00	51.44		C
ANISOU	6057	CA	GLN	F	433	6036	8972	4537	-471	-1445	-1757	C
ATOM	6058	CB	GLN	F	433	19.368	-11.415	-59.072	1.00	53.59		C
ANISOU	6058	CB	GLN	F	433	6472	9312	4577	-558	-1515	-1959	C
ATOM	6059	CG	GLN	F	433	18.243	-12.401	-59.174	1.00	56.54		C
ANISOU	6059	CG	GLN	F	433	6733	9673	5078	-746	-1618	-2223	C
ATOM	6060	CD	GLN	F	433	16.932	-11.816	-59.689	1.00	59.82		C
ANISOU	6060	CD	GLN	F	433	6898	10278	5554	-765	-1945	-2270	C
ATOM	6061	OE1	GLN	F	433	15.859	-12.218	-59.245	1.00	61.27		O
ANISOU	6061	OE1	GLN	F	433	6840	10449	5990	-910	-1990	-2434	O
ATOM	6062	NE2	GLN	F	433	17.012	-10.890	-60.639	1.00	62.13		N
ANISOU	6062	NE2	GLN	F	433	7249	10744	5612	-622	-2176	-2135	N
ATOM	6063	C	GLN	F	433	19.878	-10.921	-56.630	1.00	48.94		C
ANISOU	6063	C	GLN	F	433	5764	8437	4393	-497	-1154	-1743	C
ATOM	6064	O	GLN	F	433	19.161	-11.164	-55.657	1.00	48.75		O
ANISOU	6064	O	GLN	F	433	5604	8301	4617	-588	-1080	-1799	O
ATOM	6065	N	LEU	F	434	21.204	-11.080	-56.605	1.00	47.33		N
ANISOU	6065	N	LEU	F	434	5750	8183	4051	-415	-991	-1671	N
ATOM	6066	CA	LEU	F	434	21.915	-11.611	-55.435	1.00	45.33		C
ANISOU	6066	CA	LEU	F	434	5572	7729	3923	-399	-763	-1651	C
ATOM	6067	CB	LEU	F	434	23.375	-11.926	-55.764	1.00	44.35		C
ANISOU	6067	CB	LEU	F	434	5621	7609	3622	-286	-638	-1633	C
ATOM	6068	CG	LEU	F	434	23.737	-13.106	-56.671	1.00	46.26		C
ANISOU	6068	CG	LEU	F	434	6031	7847	3701	-298	-613	-1839	C
ATOM	6069	CD1	LEU	F	434	25.048	-12.834	-57.429	1.00	45.03		C
ANISOU	6069	CD1	LEU	F	434	5961	7831	3320	-170	-529	-1797	C
ATOM	6070	CD2	LEU	F	434	23.811	-14.406	-55.887	1.00	45.64		C
ANISOU	6070	CD2	LEU	F	434	6075	7510	3756	-328	-486	-1973	C
ATOM	6071	C	LEU	F	434	21.877	-10.621	-54.289	1.00	43.61		C
ANISOU	6071	C	LEU	F	434	5240	7453	3875	-350	-703	-1470	C
ATOM	6072	O	LEU	F	434	21.795	-11.014	-53.136	1.00	42.36		O
ANISOU	6072	O	LEU	F	434	5094	7124	3877	-394	-569	-1478	O
ATOM	6073	N	LEU	F	435	21.949	-9.337	-54.633	1.00	43.83		N
ANISOU	6073	N	LEU	F	435	5202	7609	3845	-265	-801	-1307	N
ATOM	6074	CA	LEU	F	435	21.877	-8.246	-53.682	1.00	42.80		C
ANISOU	6074	CA	LEU	F	435	4980	7425	3858	-212	-765	-1145	C
ATOM	6075	CB	LEU	F	435	22.151	-6.916	-54.393	1.00	43.44		C
ANISOU	6075	CB	LEU	F	435	5072	7627	3806	-118	-883	-969	C
ATOM	6076	CG	LEU	F	435	22.046	-5.590	-53.631	1.00	43.35		C
ANISOU	6076	CG	LEU	F	435	4998	7552	3919	-51	-879	-798	C
ATOM	6077	CD1	LEU	F	435	23.280	-5.323	-52.808	1.00	40.78		C
ANISOU	6077	CD1	LEU	F	435	4764	7145	3587	-39	-699	-695	C
ATOM	6078	CD2	LEU	F	435	21.811	-4.465	-54.623	1.00	46.94		C
ANISOU	6078	CD2	LEU	F	435	5485	8107	4244	28	-1070	-665	C
ATOM	6079	C	LEU	F	435	20.548	-8.204	-52.917	1.00	43.61		C
ANISOU	6079	C	LEU	F	435	4899	7464	4207	-283	-781	-1217	C
ATOM	6080	O	LEU	F	435	20.564	-8.107	-51.684	1.00	43.27		O
ANISOU	6080	O	LEU	F	435	4845	7285	4311	-301	-630	-1181	O
ATOM	6081	N	ARG	F	436	19.419	-8.281	-53.628	1.00	45.19		N
ANISOU	6081	N	ARG	F	436	4950	7774	4447	-327	-958	-1331	N
ATOM	6082	CA	ARG	F	436	18.092	-8.308	-52.997	1.00	46.39		C
ANISOU	6082	CA	ARG	F	436	4861	7907	4858	-409	-963	-1447	C
ATOM	6083	CB	ARG	F	436	16.958	-8.209	-54.025	1.00	49.83		C
ANISOU	6083	CB	ARG	F	436	5092	8525	5315	-416	-1236	-1567	C
ATOM	6084	CG	ARG	F	436	16.930	-6.953	-54.854	1.00	52.80		C
ANISOU	6084	CG	ARG	F	436	5452	9031	5579	-222	-1482	-1411	C
ATOM	6085	CD	ARG	F	436	16.008	-5.894	-54.293	1.00	58.94		C
ANISOU	6085	CD	ARG	F	436	5980	9814	6599	-104	-1555	-1371	C

Figure 18 (continued)

ATOM	6086	NE	ARG	F	436	15.996	-4.730	-55.183	1.00	65.22	N	
ANISOU	6086	NE	ARG	F	436	6825	10696	7261	100	-1823	-1207	N
ATOM	6087	CZ	ARG	F	436	16.971	-3.816	-55.263	1.00	66.83	C	
ANISOU	6087	CZ	ARG	F	436	7266	10826	7300	211	-1789	-971	C
ATOM	6088	NH1	ARG	F	436	18.065	-3.900	-54.498	1.00	64.44	N	
ANISOU	6088	NH1	ARG	F	436	7128	10393	6962	150	-1516	-886	N
ATOM	6089	NH2	ARG	F	436	16.854	-2.803	-56.124	1.00	69.94	N	
ANISOU	6089	NH2	ARG	F	436	7744	11271	7558	377	-2041	-820	N
ATOM	6090	C	ARG	F	436	17.859	-9.557	-52.166	1.00	45.64	C	
ANISOU	6090	C	ARG	F	436	4800	7659	4881	-598	-758	-1602	C
ATOM	6091	O	ARG	F	436	17.216	-9.476	-51.121	1.00	45.62	O	
ANISOU	6091	O	ARG	F	436	4679	7574	5082	-674	-619	-1635	O
ATOM	6092	N	HIS	F	437	18.342	-10.706	-52.646	1.00	45.31	N	
ANISOU	6092	N	HIS	F	437	4943	7568	4705	-678	-729	-1703	N
ATOM	6093	CA	HIS	F	437	18.235	-11.973	-51.907	1.00	45.24	C	
ANISOU	6093	CA	HIS	F	437	5056	7358	4776	-856	-535	-1833	C
ATOM	6094	CB	HIS	F	437	18.834	-13.126	-52.703	1.00	45.82	C	
ANISOU	6094	CB	HIS	F	437	5355	7378	4675	-890	-550	-1948	C
ATOM	6095	CG	HIS	F	437	18.890	-14.416	-51.941	1.00	46.87	C	
ANISOU	6095	CG	HIS	F	437	5698	7245	4866	-1039	-355	-2050	C
ATOM	6096	ND1	HIS	F	437	17.806	-15.262	-51.828	1.00	50.23	N	
ANISOU	6096	ND1	HIS	F	437	6073	7589	5423	-1302	-309	-2247	N
ATOM	6097	CE1	HIS	F	437	18.145	-16.317	-51.107	1.00	49.92	C	
ANISOU	6097	CE1	HIS	F	437	6317	7264	5387	-1394	-120	-2277	C
ATOM	6098	NE2	HIS	F	437	19.407	-16.186	-50.746	1.00	46.92	N	
ANISOU	6098	NE2	HIS	F	437	6143	6795	4890	-1170	-71	-2113	N
ATOM	6099	CD2	HIS	F	437	19.897	-15.006	-51.253	1.00	45.46	C	
ANISOU	6099	CD2	HIS	F	437	5796	6848	4628	-964	-203	-1979	C
ATOM	6100	C	HIS	F	437	18.888	-11.907	-50.513	1.00	43.18	C	
ANISOU	6100	C	HIS	F	437	4945	6899	4562	-822	-311	-1700	C
ATOM	6101	O	HIS	F	437	18.278	-12.279	-49.506	1.00	43.17	O	
ANISOU	6101	O	HIS	F	437	4939	6759	4706	-972	-145	-1753	O
ATOM	6102	N	PHE	F	438	20.125	-11.420	-50.468	1.00	41.26	N	
ANISOU	6102	N	PHE	F	438	4837	6655	4185	-641	-309	-1536	N
ATOM	6103	CA	PHE	F	438	20.852	-11.273	-49.206	1.00	39.83	C	
ANISOU	6103	CA	PHE	F	438	4798	6315	4020	-587	-153	-1408	C
ATOM	6104	CB	PHE	F	438	22.361	-11.316	-49.455	1.00	37.85	C	
ANISOU	6104	CB	PHE	F	438	4709	6069	3602	-417	-169	-1313	C
ATOM	6105	CG	PHE	F	438	22.829	-12.660	-49.947	1.00	39.60	C	
ANISOU	6105	CG	PHE	F	438	5116	6198	3733	-418	-151	-1439	C
ATOM	6106	CD1	PHE	F	438	22.572	-13.808	-49.195	1.00	40.19	C	
ANISOU	6106	CD1	PHE	F	438	5380	6026	3864	-522	-35	-1520	C
ATOM	6107	CE1	PHE	F	438	22.977	-15.070	-49.651	1.00	41.92	C	
ANISOU	6107	CE1	PHE	F	438	5806	6113	4007	-509	-21	-1646	C
ATOM	6108	CZ	PHE	F	438	23.645	-15.183	-50.862	1.00	41.42	C	
ANISOU	6108	CZ	PHE	F	438	5733	6193	3811	-388	-107	-1710	C
ATOM	6109	CE2	PHE	F	438	23.898	-14.046	-51.625	1.00	40.68	C	
ANISOU	6109	CE2	PHE	F	438	5446	6370	3640	-307	-203	-1629	C
ATOM	6110	CD2	PHE	F	438	23.490	-12.793	-51.171	1.00	37.92	C	
ANISOU	6110	CD2	PHE	F	438	4917	6123	3367	-324	-234	-1485	C
ATOM	6111	C	PHE	F	438	20.402	-10.089	-48.336	1.00	39.24	C	
ANISOU	6111	C	PHE	F	438	4583	6259	4070	-568	-108	-1305	C
ATOM	6112	O	PHE	F	438	20.540	-10.130	-47.106	1.00	39.25	O	
ANISOU	6112	O	PHE	F	438	4694	6107	4112	-601	45	-1255	O
ATOM	6113	N	GLN	F	439	19.858	-9.049	-48.967	1.00	39.55	N	
ANISOU	6113	N	GLN	F	439	4408	6467	4154	-505	-247	-1277	N
ATOM	6114	CA	GLN	F	439	19.215	-7.958	-48.236	1.00	40.07	C	
ANISOU	6114	CA	GLN	F	439	4319	6538	4370	-476	-210	-1224	C
ATOM	6115	CB	GLN	F	439	18.927	-6.776	-49.172	1.00	40.77	C	
ANISOU	6115	CB	GLN	F	439	4244	6792	4456	-335	-421	-1156	C
ATOM	6116	CG	GLN	F	439	20.154	-5.878	-49.485	1.00	38.76	C	
ANISOU	6116	CG	GLN	F	439	4134	6557	4035	-195	-480	-960	C
ATOM	6117	CD	GLN	F	439	19.884	-4.831	-50.591	1.00	40.21	C	
ANISOU	6117	CD	GLN	F	439	4240	6875	4164	-74	-700	-876	C
ATOM	6118	OE1	GLN	F	439	18.910	-4.924	-51.358	1.00	40.53	O	
ANISOU	6118	OE1	GLN	F	439	4129	7024	4247	-65	-866	-967	O
ATOM	6119	NE2	GLN	F	439	20.765	-3.840	-50.676	1.00	38.72	N	
ANISOU	6119	NE2	GLN	F	439	4173	6671	3869	12	-714	-700	N
ATOM	6120	C	GLN	F	439	17.937	-8.415	-47.506	1.00	41.99	C	
ANISOU	6120	C	GLN	F	439	4418	6725	4813	-648	-69	-1382	C
ATOM	6121	O	GLN	F	439	17.606	-7.892	-46.434	1.00	42.49	O	

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Figure 18 (continued)

ANISOU	6121	O	GLN	F 439	4446	6713	4984	-664	82	-1362	O
ATOM	6122	N	LYS	F 440	17.235	-9.393	-48.079	1.00	43.71		N
ANISOU	6122	N	LYS	F 440	4556	6978	5073	-798	-100	-1554	N
ATOM	6123	CA	LYS	F 440	16.025	-9.948	-47.471	1.00	45.70		C
ANISOU	6123	CA	LYS	F 440	4653	7190	5520	-1019	59	-1732	C
ATOM	6124	CB	LYS	F 440	15.193	-10.701	-48.516	1.00	47.97		C
ANISOU	6124	CB	LYS	F 440	4765	7600	5862	-1159	-81	-1933	C
ATOM	6125	CG	LYS	F 440	13.730	-10.810	-48.165	1.00	52.65		C
ANISOU	6125	CG	LYS	F 440	5024	8266	6716	-1355	10	-2138	C
ATOM	6126	CD	LYS	F 440	13.005	-11.813	-49.037	1.00	57.78		C
ANISOU	6126	CD	LYS	F 440	5548	8998	7410	-1567	-98	-2366	C
ATOM	6127	CE	LYS	F 440	11.613	-12.094	-48.466	1.00	63.15		C
ANISOU	6127	CE	LYS	F 440	5897	9727	8371	-1834	73	-2594	C
ATOM	6128	NZ	LYS	F 440	10.726	-12.860	-49.401	1.00	67.40		N
ANISOU	6128	NZ	LYS	F 440	6202	10408	8999	-2047	-88	-2852	N
ATOM	6129	C	LYS	F 440	16.343	-10.851	-46.265	1.00	45.04		C
ANISOU	6129	C	LYS	F 440	4857	6858	5399	-1184	337	-1726	C
ATOM	6130	O	LYS	F 440	15.665	-10.779	-45.235	1.00	45.28		O
ANISOU	6130	O	LYS	F 440	4834	6818	5553	-1319	556	-1776	O
ATOM	6131	N	ASP	F 441	17.363	-11.702	-46.407	1.00	44.15		N
ANISOU	6131	N	ASP	F 441	5059	6609	5107	-1164	329	-1670	N
ATOM	6132	CA	ASP	F 441	17.851	-12.542	-45.301	1.00	44.37		C
ANISOU	6132	CA	ASP	F 441	5434	6370	5057	-1258	537	-1623	C
ATOM	6133	CB	ASP	F 441	17.083	-13.877	-45.220	1.00	47.39		C
ANISOU	6133	CB	ASP	F 441	5912	6599	5494	-1550	681	-1796	C
ATOM	6134	CG	ASP	F 441	17.580	-14.785	-44.081	1.00	49.62		C
ANISOU	6134	CG	ASP	F 441	6630	6558	5663	-1643	885	-1723	C
ATOM	6135	OD1	ASP	F 441	17.900	-14.261	-42.985	1.00	47.18		O
ANISOU	6135	OD1	ASP	F 441	6449	6174	5305	-1586	997	-1590	O
ATOM	6136	OD2	ASP	F 441	17.647	-16.033	-44.294	1.00	53.67		O
ANISOU	6136	OD2	ASP	F 441	7391	6878	6124	-1769	920	-1801	O
ATOM	6137	C	ASP	F 441	19.354	-12.779	-45.422	1.00	42.20		C
ANISOU	6137	C	ASP	F 441	5438	6011	4585	-1054	445	-1484	C
ATOM	6138	O	ASP	F 441	19.809	-13.476	-46.344	1.00	42.70		O
ANISOU	6138	O	ASP	F 441	5580	6080	4565	-1008	336	-1539	O
ATOM	6139	N	ALA	F 442	20.119	-12.200	-44.490	1.00	39.94		N
ANISOU	6139	N	ALA	F 442	5287	5659	4228	-932	490	-1327	N
ATOM	6140	CA	ALA	F 442	21.587	-12.254	-44.552	1.00	37.88		C
ANISOU	6140	CA	ALA	F 442	5212	5367	3812	-718	385	-1206	C
ATOM	6141	CB	ALA	F 442	22.194	-10.935	-44.070	1.00	35.76		C
ANISOU	6141	CB	ALA	F 442	4870	5197	3522	-576	341	-1061	C
ATOM	6142	C	ALA	F 442	22.206	-13.431	-43.786	1.00	38.27		C
ANISOU	6142	C	ALA	F 442	5637	5147	3758	-720	460	-1181	C
ATOM	6143	O	ALA	F 442	23.427	-13.627	-43.815	1.00	37.55		O
ANISOU	6143	O	ALA	F 442	5683	5026	3559	-521	361	-1107	O
ATOM	6144	N	LYS	F 443	21.364	-14.209	-43.117	1.00	39.15		N
ANISOU	6144	N	LYS	F 443	5911	5060	3903	-941	634	-1246	N
ATOM	6145	CA	LYS	F 443	21.830	-15.168	-42.119	1.00	40.19		C
ANISOU	6145	CA	LYS	F 443	6467	4887	3916	-956	722	-1181	C
ATOM	6146	CB	LYS	F 443	20.647	-15.777	-41.368	1.00	42.67		C
ANISOU	6146	CB	LYS	F 443	6926	5010	4276	-1279	972	-1253	C
ATOM	6147	CG	LYS	F 443	20.361	-15.115	-40.038	1.00	42.60		C
ANISOU	6147	CG	LYS	F 443	7000	4958	4230	-1361	1138	-1163	C
ATOM	6148	CD	LYS	F 443	19.175	-15.766	-39.380	1.00	45.79		C
ANISOU	6148	CD	LYS	F 443	7535	5190	4676	-1716	1431	-1256	C
ATOM	6149	CE	LYS	F 443	17.886	-15.276	-40.009	1.00	47.38		C
ANISOU	6149	CE	LYS	F 443	7261	5629	5111	-1902	1514	-1439	C
ATOM	6150	NZ	LYS	F 443	17.018	-16.416	-40.328	1.00	51.45		N
ANISOU	6150	NZ	LYS	F 443	7824	6016	5707	-2211	1655	-1602	N
ATOM	6151	C	LYS	F 443	22.727	-16.272	-42.669	1.00	40.29		C
ANISOU	6151	C	LYS	F 443	6714	4754	3841	-804	609	-1201	C
ATOM	6152	O	LYS	F 443	23.776	-16.559	-42.095	1.00	39.70		O
ANISOU	6152	O	LYS	F 443	6892	4543	3650	-607	536	-1092	O
ATOM	6153	N	VAL	F 444	22.306	-16.894	-43.771	1.00	40.93		N
ANISOU	6153	N	VAL	F 444	6708	4865	3980	-884	583	-1356	N
ATOM	6154	CA	VAL	F 444	23.106	-17.948	-44.424	1.00	41.02		C
ANISOU	6154	CA	VAL	F 444	6929	4738	3917	-730	491	-1416	C
ATOM	6155	CB	VAL	F 444	22.315	-18.633	-45.563	1.00	42.70		C
ANISOU	6155	CB	VAL	F 444	7062	4969	4193	-911	498	-1626	C
ATOM	6156	CG1	VAL	F 444	23.094	-19.832	-46.148	1.00	43.29		C
ANISOU	6156	CG1	VAL	F 444	7417	4842	4187	-760	438	-1715	C

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Figure 18 (continued)

ATOM	6157	CG2	VAL	F	444	20.936	-19.073	-45.051	1.00	44.72	
ANISOU	6157	CG2	VAL	F	444	7368	5079	4545	-1289	687	-1713
ATOM	6158	C	VAL	F	444	24.422	-17.346	-44.942	1.00	38.71	
ANISOU	6158	C	VAL	F	444	6494	4651	3563	-400	317	-1349
ATOM	6159	O	VAL	F	444	25.494	-17.944	-44.813	1.00	39.03	
ANISOU	6159	O	VAL	F	444	6739	4560	3529	-169	245	-1320
ATOM	6160	N	LEU	F	445	24.333	-16.142	-45.489	1.00	36.36	
ANISOU	6160	N	LEU	F	445	5845	4667	3303	-380	255	-1326
ATOM	6161	CA	LEU	F	445	25.508	-15.420	-45.967	1.00	34.90	
ANISOU	6161	CA	LEU	F	445	5500	4697	3063	-133	131	-1260
ATOM	6162	CB	LEU	F	445	25.098	-14.069	-46.554	1.00	32.55	
ANISOU	6162	CB	LEU	F	445	4867	4693	2805	-184	89	-1227
ATOM	6163	CG	LEU	F	445	26.226	-13.137	-46.999	1.00	31.63	
ANISOU	6163	CG	LEU	F	445	4587	4801	2630	0	-2	-1143
ATOM	6164	CD1	LEU	F	445	26.905	-13.645	-48.265	1.00	30.39	
ANISOU	6164	CD1	LEU	F	445	4401	4755	2391	115	-50	-1248
ATOM	6165	CD2	LEU	F	445	25.692	-11.704	-47.173	1.00	30.43	
ANISOU	6165	CD2	LEU	F	445	4199	4843	2521	-73	-28	-1062
ATOM	6166	C	LEU	F	445	26.542	-15.233	-44.853	1.00	35.09	
ANISOU	6166	C	LEU	F	445	5661	4635	3035	44	94	-1119
ATOM	6167	O	LEU	F	445	27.710	-15.627	-44.999	1.00	35.50	
ANISOU	6167	O	LEU	F	445	5772	4680	3036	277	8	-1121
ATOM	6168	N	PHE	F	446	26.090	-14.642	-43.743	1.00	35.06	
ANISOU	6168	N	PHE	F	446	5700	4578	3045	-65	157	-1016
ATOM	6169	CA	PHE	F	446	26.937	-14.316	-42.610	1.00	35.44	
ANISOU	6169	CA	PHE	F	446	5879	4565	3023	66	102	-884
ATOM	6170	CB	PHE	F	446	26.155	-13.442	-41.604	1.00	33.86	
ANISOU	6170	CB	PHE	F	446	5673	4356	2836	-109	206	-808
ATOM	6171	CG	PHE	F	446	26.103	-11.980	-41.978	1.00	30.18	
ANISOU	6171	CG	PHE	F	446	4878	4157	2434	-115	174	-779
ATOM	6172	CD1	PHE	F	446	26.572	-11.539	-43.229	1.00	28.69	
ANISOU	6172	CD1	PHE	F	446	4433	4194	2273	-20	77	-809
ATOM	6173	CE1	PHE	F	446	26.527	-10.181	-43.583	1.00	26.71	
ANISOU	6173	CE1	PHE	F	446	3939	4146	2063	-34	47	-761
ATOM	6174	CZ	PHE	F	446	25.987	-9.247	-42.674	1.00	27.01	
ANISOU	6174	CZ	PHE	F	446	3967	4156	2138	-123	111	-702
ATOM	6175	CE2	PHE	F	446	25.498	-9.688	-41.439	1.00	24.47	
ANISOU	6175	CE2	PHE	F	446	3871	3634	1792	-215	223	-696
ATOM	6176	CD2	PHE	F	446	25.556	-11.045	-41.101	1.00	28.12	
ANISOU	6176	CD2	PHE	F	446	4595	3899	2192	-223	257	-724
ATOM	6177	C	PHE	F	446	27.501	-15.562	-41.943	1.00	38.56	
ANISOU	6177	C	PHE	F	446	6654	4667	3332	191	66	-864
ATOM	6178	O	PHE	F	446	28.671	-15.593	-41.562	1.00	39.82	
ANISOU	6178	O	PHE	F	446	6870	4828	3433	430	-77	-804
ATOM	6179	N	GLN	F	447	26.677	-16.596	-41.820	1.00	41.56	
ANISOU	6179	N	GLN	F	447	7294	4789	3708	31	185	-921
ATOM	6180	CA	GLN	F	447	27.057	-17.775	-41.044	1.00	45.64	
ANISOU	6180	CA	GLN	F	447	8264	4954	4124	121	165	-873
ATOM	6181	CB	GLN	F	447	25.815	-18.492	-40.478	1.00	47.48	
ANISOU	6181	CB	GLN	F	447	8800	4901	4339	-200	378	-890
ATOM	6182	CG	GLN	F	447	25.073	-17.727	-39.352	1.00	48.48	
ANISOU	6182	CG	GLN	F	447	8957	5035	4427	-424	529	-798
ATOM	6183	CD	GLN	F	447	23.680	-18.313	-39.041	1.00	50.68	
ANISOU	6183	CD	GLN	F	447	9403	5119	4735	-807	800	-867
ATOM	6184	OE1	GLN	F	447	23.423	-19.504	-39.267	1.00	54.85	
ANISOU	6184	OE1	GLN	F	447	10205	5382	5253	-905	862	-931
ATOM	6185	NE2	GLN	F	447	22.781	-17.469	-38.526	1.00	51.31	
ANISOU	6185	NE2	GLN	F	447	9309	5325	4860	-1031	975	-872
ATOM	6186	C	GLN	F	447	27.949	-18.752	-41.824	1.00	47.16	
ANISOU	6186	C	GLN	F	447	8540	5061	4318	384	43	-961
ATOM	6187	O	GLN	F	447	28.431	-19.731	-41.252	1.00	49.81	
ANISOU	6187	O	GLN	F	447	9258	5091	4576	537	-19	-919
ATOM	6188	N	ASN	F	448	28.178	-18.487	-43.112	1.00	46.16	
ANISOU	6188	N	ASN	F	448	8083	5190	4265	451	9	-1083
ATOM	6189	CA	ASN	F	448	29.028	-19.362	-43.933	1.00	47.96	
ANISOU	6189	CA	ASN	F	448	8359	5368	4497	707	-74	-1202
ATOM	6190	CB	ASN	F	448	28.210	-20.041	-45.037	1.00	48.76	
ANISOU	6190	CB	ASN	F	448	8474	5419	4635	530	28	-1384
ATOM	6191	CG	ASN	F	448	27.331	-21.142	-44.506	1.00	51.36	
ANISOU	6191	CG	ASN	F	448	9217	5346	4949	321	138	-1405
ATOM	6192	OD1	ASN	F	448	27.684	-22.318	-44.583	1.00	56.22	

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Figure 18 (continued)

ANISOU	6192	OD1	ASN	F	448	10163	5660	5540	452	119	-1474	O
ATOM	6193	ND2	ASN	F	448	26.186	-20.775	-43.948	1.00	51.17		N
ANISOU	6193	ND2	ASN	F	448	9191	5303	4948	-10	270	-1356	N
ATOM	6194	C	ASN	F	448	30.261	-18.680	-44.526	1.00	47.16		C
ANISOU	6194	C	ASN	F	448	7915	5590	4414	975	-193	-1223	C
ATOM	6195	O	ASN	F	448	31.074	-19.318	-45.229	1.00	48.80		O
ANISOU	6195	O	ASN	F	448	8107	5803	4633	1217	-243	-1344	O
ATOM	6196	N	TRP	F	449	30.404	-17.396	-44.214	1.00	44.74		N
ANISOU	6196	N	TRP	F	449	7344	5542	4115	923	-220	-1118	N
ATOM	6197	CA	TRP	F	449	31.462	-16.558	-44.749	1.00	43.75		C
ANISOU	6197	CA	TRP	F	449	6866	5746	4011	1087	-296	-1130	C
ATOM	6198	CB	TRP	F	449	31.109	-15.093	-44.514	1.00	40.74		C
ANISOU	6198	CB	TRP	F	449	6250	5589	3640	899	-272	-1021	C
ATOM	6199	CG	TRP	F	449	32.099	-14.109	-45.064	1.00	39.18		C
ANISOU	6199	CG	TRP	F	449	5708	5720	3459	989	-319	-1021	C
ATOM	6200	CD1	TRP	F	449	33.122	-13.516	-44.388	1.00	38.41		C
ANISOU	6200	CD1	TRP	F	449	5492	5733	3368	1111	-427	-956	C
ATOM	6201	NE1	TRP	F	449	33.798	-12.649	-45.215	1.00	37.76		N
ANISOU	6201	NE1	TRP	F	449	5082	5959	3306	1105	-405	-988	N
ATOM	6202	CE2	TRP	F	449	33.212	-12.668	-46.456	1.00	38.35		C
ANISOU	6202	CE2	TRP	F	449	5092	6121	3360	997	-290	-1060	C
ATOM	6203	CD2	TRP	F	449	32.132	-13.577	-46.398	1.00	38.04		C
ANISOU	6203	CD2	TRP	F	449	5310	5833	3311	927	-251	-1092	C
ATOM	6204	CE3	TRP	F	449	31.347	-13.773	-47.545	1.00	37.88		C
ANISOU	6204	CE3	TRP	F	449	5272	5859	3262	804	-169	-1181	C
ATOM	6205	CZ3	TRP	F	449	31.668	-13.069	-48.703	1.00	37.87		C
ANISOU	6205	CZ3	TRP	F	449	5043	6135	3213	771	-130	-1214	C
ATOM	6206	CH2	TRP	F	449	32.756	-12.173	-48.731	1.00	37.69		C
ANISOU	6206	CH2	TRP	F	449	4797	6336	3188	831	-137	-1165	C
ATOM	6207	CZ2	TRP	F	449	33.536	-11.958	-47.622	1.00	37.45		C
ANISOU	6207	CZ2	TRP	F	449	4735	6279	3216	935	-216	-1098	C
ATOM	6208	C	TRP	F	449	32.844	-16.878	-44.167	1.00	45.96		C
ANISOU	6208	C	TRP	F	449	7170	6002	4289	1417	-454	-1113	C
ATOM	6209	O	TRP	F	449	33.846	-16.885	-44.895	1.00	46.57		O
ANISOU	6209	O	TRP	F	449	7011	6277	4406	1622	-492	-1216	O
ATOM	6210	N	GLY	F	450	32.904	-17.119	-42.858	1.00	47.36		N
ANISOU	6210	N	GLY	F	450	7622	5957	4416	1470	-550	-991	N
ATOM	6211	CA	GLY	F	450	34.169	-17.491	-42.226	1.00	50.09		C
ANISOU	6211	CA	GLY	F	450	8014	6263	4756	1812	-756	-972	C
ATOM	6212	C	GLY	F	450	34.684	-16.523	-41.180	1.00	49.91		C
ANISOU	6212	C	GLY	F	450	7895	6373	4695	1820	-896	-845	C
ATOM	6213	O	GLY	F	450	34.711	-15.310	-41.382	1.00	47.96		O
ANISOU	6213	O	GLY	F	450	7334	6410	4479	1663	-853	-827	O
ATOM	6214	N	ILE	F	451	35.112	-17.089	-40.061	1.00	52.64		N
ANISOU	6214	N	ILE	F	451	8549	6492	4958	2009	-1079	-759	N
ATOM	6215	CA	ILE	F	451	35.602	-16.346	-38.912	1.00	53.25		C
ANISOU	6215	CA	ILE	F	451	8628	6646	4959	2031	-1254	-644	C
ATOM	6216	CB	ILE	F	451	35.053	-16.971	-37.603	1.00	54.82		C
ANISOU	6216	CB	ILE	F	451	9395	6461	4973	1996	-1306	-493	C
ATOM	6217	CG1	ILE	F	451	33.541	-17.196	-37.695	1.00	53.93		C
ANISOU	6217	CG1	ILE	F	451	9533	6138	4820	1646	-1016	-464	C
ATOM	6218	CD1	ILE	F	451	32.730	-15.935	-37.885	1.00	50.90		C
ANISOU	6218	CD1	ILE	F	451	8876	5986	4479	1312	-825	-462	C
ATOM	6219	CG2	ILE	F	451	35.374	-16.122	-36.407	1.00	55.21		C
ANISOU	6219	CG2	ILE	F	451	9489	6589	4899	1957	-1461	-380	C
ATOM	6220	C	ILE	F	451	37.132	-16.370	-38.907	1.00	55.90		C
ANISOU	6220	C	ILE	F	451	8691	7179	5368	2392	-1514	-716	C
ATOM	6221	O	ILE	F	451	37.752	-17.379	-39.291	1.00	58.65		O
ANISOU	6221	O	ILE	F	451	9074	7433	5779	2709	-1607	-809	O
ATOM	6222	N	GLU	F	452	37.737	-15.263	-38.480	1.00	55.67		N
ANISOU	6222	N	GLU	F	452	8380	7424	5347	2344	-1628	-694	N
ATOM	6223	CA	GLU	F	452	39.200	-15.177	-38.353	1.00	58.58		C
ANISOU	6223	CA	GLU	F	452	8434	8023	5801	2651	-1892	-778	C
ATOM	6224	CB	GLU	F	452	39.802	-14.454	-39.564	1.00	57.37		C
ANISOU	6224	CB	GLU	F	452	7708	8270	5820	2597	-1761	-932	C
ATOM	6225	CG	GLU	F	452	39.359	-12.995	-39.696	1.00	53.46		C
ANISOU	6225	CG	GLU	F	452	7007	7989	5316	2209	-1603	-881	C
ATOM	6226	CD	GLU	F	452	40.063	-12.246	-40.809	1.00	54.15		C
ANISOU	6226	CD	GLU	F	452	6579	8455	5541	2140	-1483	-1012	C
ATOM	6227	OE1	GLU	F	452	40.983	-12.807	-41.443	1.00	57.04		O
ANISOU	6227	OE1	GLU	F	452	6687	8967	6017	2391	-1514	-1163	O

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Figure 18 (continued)

ATOM	6228	OE2	GLU	F	452	39.690	-11.080	-41.056	1.00	52.63	O	
ANISOU	6228	OE2	GLU	F	452	6251	8404	5340	1830	-1342	-966	O
ATOM	6229	C	GLU	F	452	39.607	-14.457	-37.070	1.00	59.73	C	
ANISOU	6229	C	GLU	F	452	8632	8226	5839	2623	-2130	-681	C
ATOM	6230	O	GLU	F	452	38.882	-13.574	-36.594	1.00	57.59	O	
ANISOU	6230	O	GLU	F	452	8458	7952	5471	2304	-2021	-587	O
ATOM	6231	N	AHIS	F	453	40.760	-14.833	-36.519	0.50	63.60	N	
ANISOU	6231	N	AHIS	F	453	9051	8768	6344	2968	-2465	-719	N
ATOM	6232	N	BHIS	F	453	40.754	-14.846	-36.516	0.50	63.68	N	
ANISOU	6232	N	BHIS	F	453	9067	8774	6353	2970	-2465	-718	N
ATOM	6233	CA	AHIS	F	453	41.336	-14.158	-35.351	0.50	65.33	C	
ANISOU	6233	CA	AHIS	F	453	9270	9092	6462	2971	-2752	-662	C
ATOM	6234	CA	BHIS	F	453	41.340	-14.156	-35.367	0.50	65.46	C	
ANISOU	6234	CA	BHIS	F	453	9280	9111	6481	2971	-2750	-664	C
ATOM	6235	CB	AHIS	F	453	42.466	-15.006	-34.739	0.50	70.02	C	
ANISOU	6235	CB	AHIS	F	453	9906	9644	7055	3446	-3172	-693	C
ATOM	6236	CB	BHIS	F	453	42.520	-14.952	-34.789	0.50	70.22	C	
ANISOU	6236	CB	BHIS	F	453	9888	9698	7095	3444	-3170	-705	C
ATOM	6237	CG	AHIS	F	453	42.950	-14.519	-33.405	0.50	71.64	C	
ANISOU	6237	CG	AHIS	F	453	10237	9889	7094	3472	-3522	-618	C
ATOM	6238	CG	BHIS	F	453	42.131	-16.251	-34.150	0.50	72.40	C	
ANISOU	6238	CG	BHIS	F	453	10795	9514	7199	3687	-3298	-573	C
ATOM	6239	ND1AHIS	F	453	44.132	-13.826	-33.248	0.50	73.20	N		
ANISOU	6239	ND1AHIS	F	453	9938	10466	7409	3561	-3786	-748	N	
ATOM	6240	ND1BHIS	F	453	41.800	-16.354	-32.815	0.50	73.75	N		
ANISOU	6240	ND1BHIS	F	453	11506	9424	7089	3657	-3486	-390	N	
ATOM	6241	CE1AHIS	F	453	44.303	-13.532	-31.971	0.50	74.77	C		
ANISOU	6241	CE1AHIS	F	453	10403	10611	7394	3557	-4093	-655	C	
ATOM	6242	CE1BHIS	F	453	41.511	-17.612	-32.531	0.50	76.18	C		
ANISOU	6242	CE1BHIS	F	453	12349	9316	7280	3883	-3551	-290	C	
ATOM	6243	NE2AHIS	F	453	43.277	-14.013	-31.292	0.50	73.86	N		
ANISOU	6243	NE2AHIS	F	453	10957	10092	7013	3469	-4011	-461	N	
ATOM	6244	NE2BHIS	F	453	41.648	-18.329	-33.632	0.50	76.34	N		
ANISOU	6244	NE2BHIS	F	453	12183	9314	7510	4069	-3421	-416	N	
ATOM	6245	CD2AHIS	F	453	42.418	-14.639	-32.164	0.50	71.98	C		
ANISOU	6245	CD2AHIS	F	453	10857	9646	6844	3407	-3652	-438	C	
ATOM	6246	CD2BHIS	F	453	42.038	-17.502	-34.658	0.50	73.83	C		
ANISOU	6246	CD2BHIS	F	453	11192	9429	7433	3954	-3259	-597	C	
ATOM	6247	C	AHIS	F	453	41.856	-12.786	-35.785	0.50	64.34	C	
ANISOU	6247	C	AHIS	F	453	8588	9388	6470	2743	-2688	-765	C
ATOM	6248	C	BHIS	F	453	41.815	-12.774	-35.816	0.50	64.27	C	
ANISOU	6248	C	BHIS	F	453	8581	9378	6462	2731	-2673	-764	C
ATOM	6249	O	AHIS	F	453	42.515	-12.669	-36.821	0.50	64.49	O	
ANISOU	6249	O	AHIS	F	453	8133	9680	6690	2808	-2604	-919	O
ATOM	6250	O	BHIS	F	453	42.409	-12.638	-36.887	0.50	64.21	O	
ANISOU	6250	O	BHIS	F	453	8108	9637	6652	2778	-2569	-914	O
ATOM	6251	N	ILE	F	454	41.544	-11.752	-35.009	1.00	63.53	N	
ANISOU	6251	N	ILE	F	454	8571	9322	6247	2459	-2702	-686	N
ATOM	6252	CA	ILE	F	454	41.980	-10.396	-35.349	1.00	63.62	C	
ANISOU	6252	CA	ILE	F	454	8126	9678	6370	2202	-2634	-772	C
ATOM	6253	CB	ILE	F	454	40.800	-9.375	-35.410	1.00	59.86	C	
ANISOU	6253	CB	ILE	F	454	7791	9130	5822	1781	-2331	-683	C
ATOM	6254	CG1	ILE	F	454	40.225	-9.077	-34.026	1.00	59.78	C	
ANISOU	6254	CG1	ILE	F	454	8229	8907	5579	1656	-2428	-563	C
ATOM	6255	CD1	ILE	F	454	38.978	-8.221	-34.069	1.00	56.89	C	
ANISOU	6255	CD1	ILE	F	454	8015	8437	5162	1302	-2116	-495	C
ATOM	6256	CG2	ILE	F	454	39.713	-9.882	-36.346	1.00	57.55	C	
ANISOU	6256	CG2	ILE	F	454	7631	8673	5561	1711	-2013	-646	C
ATOM	6257	C	ILE	F	454	43.171	-9.893	-34.513	1.00	67.95	C	
ANISOU	6257	C	ILE	F	454	8445	10453	6920	2290	-2997	-844	C
ATOM	6258	O	ILE	F	454	43.466	-10.413	-33.431	1.00	70.35	O	
ANISOU	6258	O	ILE	F	454	9035	10620	7074	2507	-3324	-789	O
ATOM	6259	N	ASP	F	455	43.850	-8.885	-35.059	1.00	69.56	N	
ANISOU	6259	N	ASP	F	455	8140	11002	7287	2108	-2939	-971	N
ATOM	6260	CA	ASP	F	455	45.062	-8.311	-34.481	1.00	74.25	C	
ANISOU	6260	CA	ASP	F	455	8389	11882	7940	2136	-3255	-1090	C
ATOM	6261	CB	ASP	F	455	45.985	-7.824	-35.605	1.00	75.13	C	
ANISOU	6261	CB	ASP	F	455	7842	12386	8318	2063	-3120	-1280	C
ATOM	6262	CG	ASP	F	455	46.888	-8.925	-36.144	1.00	78.46	C	
ANISOU	6262	CG	ASP	F	455	7952	12945	8915	2492	-3242	-1425	C
ATOM	6263	OD1	ASP	F	455	47.431	-9.720	-35.339	1.00	82.36	O	

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Figure 18 (continued)

ANISOU	6263	OD1	ASP	F	455	8541	13377	9374	2866	-3625	-1440	O
ATOM	6264	OD2	ASP	F	455	47.073	-8.983	-37.376	1.00	77.63		O
ANISOU	6264	OD2	ASP	F	455	7515	13007	8974	2469	-2960	-1531	O
ATOM	6265	C	ASP	F	455	44.811	-7.167	-33.493	1.00	74.78		C
ANISOU	6265	C	ASP	F	455	8634	11930	7848	1812	-3331	-1036	C
ATOM	6266	O	ASP	F	455	45.644	-6.915	-32.603	1.00	78.03		O
ANISOU	6266	O	ASP	F	455	8955	12477	8215	1872	-3689	-1103	O
ATOM	6267	N	ASN	F	456	43.670	-6.484	-33.647	1.00	72.42		N
ANISOU	6267	N	ASN	F	456	8584	11465	7468	1486	-3010	-931	N
ATOM	6268	CA	ASN	F	456	43.375	-5.246	-32.898	1.00	72.87		C
ANISOU	6268	CA	ASN	F	456	8779	11502	7406	1147	-3004	-908	C
ATOM	6269	CB	ASN	F	456	43.194	-5.502	-31.383	1.00	74.89		C
ANISOU	6269	CB	ASN	F	456	9517	11553	7382	1230	-3287	-830	C
ATOM	6270	CG	ASN	F	456	41.742	-5.352	-30.921	1.00	73.35		C
ANISOU	6270	CG	ASN	F	456	9857	11028	6986	1044	-3027	-684	C
ATOM	6271	OD1	ASN	F	456	40.804	-5.294	-31.734	1.00	71.27		O
ANISOU	6271	OD1	ASN	F	456	9614	10661	6803	923	-2671	-632	O
ATOM	6272	ND2	ASN	F	456	41.555	-5.287	-29.604	1.00	75.14		N
ANISOU	6272	ND2	ASN	F	456	10508	11099	6942	1020	-3208	-632	N
ATOM	6273	C	ASN	F	456	44.415	-4.143	-33.156	1.00	74.75		C
ANISOU	6273	C	ASN	F	456	8515	12082	7807	933	-3067	-1065	C
ATOM	6274	O	ASN	F	456	45.187	-3.760	-32.261	1.00	77.82		O
ANISOU	6274	O	ASN	F	456	8830	12596	8142	912	-3384	-1148	O
ATOM	6275	N	VAL	F	457	44.445	-3.683	-34.408	1.00	73.51		N
ANISOU	6275	N	VAL	F	457	8021	12072	7836	767	-2766	-1110	N
ATOM	6276	CA	VAL	F	457	45.134	-2.453	-34.786	1.00	74.40		C
ANISOU	6276	CA	VAL	F	457	7745	12439	8083	443	-2695	-1225	C
ATOM	6277	CB	VAL	F	457	45.522	-2.397	-36.298	1.00	73.96		C
ANISOU	6277	CB	VAL	F	457	7258	12607	8237	380	-2410	-1296	C
ATOM	6278	CG1	VAL	F	457	46.942	-2.910	-36.505	1.00	77.90		C
ANISOU	6278	CG1	VAL	F	457	7228	13455	8917	586	-2608	-1493	C
ATOM	6279	CG2	VAL	F	457	44.528	-3.164	-37.166	1.00	71.21		C
ANISOU	6279	CG2	VAL	F	457	7123	12070	7862	520	-2146	-1181	C
ATOM	6280	C	VAL	F	457	44.230	-1.295	-34.377	1.00	72.20		C
ANISOU	6280	C	VAL	F	457	7797	11953	7683	96	-2535	-1135	C
ATOM	6281	O	VAL	F	457	43.123	-1.523	-33.872	1.00	69.99		O
ANISOU	6281	O	VAL	F	457	7977	11379	7238	134	-2467	-1004	O
ATOM	6282	N	MSE	F	458	44.696	-0.064	-34.577	1.00	73.06		N
ANISOU	6282	N	MSE	F	458	7679	12203	7878	-244	-2463	-1216	N
ATOM	6283	CA	MSE	F	458	44.062	1.090	-33.940	1.00	72.35		C
ANISOU	6283	CA	MSE	F	458	7904	11914	7672	-546	-2395	-1172	C
ATOM	6284	CB	MSE	F	458	44.941	2.335	-34.025	1.00	74.88		C
ANISOU	6284	CB	MSE	F	458	7928	12422	8101	-907	-2406	-1306	C
ATOM	6285	CG	MSE	F	458	44.687	3.283	-32.866	1.00	77.18		C
ANISOU	6285	CG	MSE	F	458	8543	12541	8241	-1133	-2523	-1331	C
ATOM	6286	SE	MSE	F	458	44.951	5.167	-33.288	0.90	80.31		SE
ANISOU	6286	SE	MSE	F	458	8839	12926	8747	-1693	-2306	-1407	SE
ATOM	6287	CE	MSE	F	458	45.046	5.835	-31.442	1.00	81.22		C
ANISOU	6287	CE	MSE	F	458	9312	12907	8640	-1838	-2642	-1526	C
ATOM	6288	C	MSE	F	458	42.672	1.407	-34.465	1.00	66.67		C
ANISOU	6288	C	MSE	F	458	7502	10919	6910	-636	-2053	-1019	C
ATOM	6289	O	MSE	F	458	42.496	1.655	-35.655	1.00	65.37		O
ANISOU	6289	O	MSE	F	458	7177	10798	6862	-727	-1796	-981	O
ATOM	6290	N	GLY	F	459	41.699	1.395	-33.554	1.00	63.85		N
ANISOU	6290	N	GLY	F	459	7594	10290	6378	-606	-2058	-941	N
ATOM	6291	CA	GLY	F	459	40.324	1.802	-33.851	1.00	58.57		C
ANISOU	6291	CA	GLY	F	459	7217	9360	5679	-691	-1761	-826	C
ATOM	6292	C	GLY	F	459	39.477	0.783	-34.594	1.00	54.89		C
ANISOU	6292	C	GLY	F	459	6812	8810	5236	-479	-1592	-722	C
ATOM	6293	O	GLY	F	459	38.386	1.107	-35.066	1.00	52.95		O
ANISOU	6293	O	GLY	F	459	6711	8400	5008	-543	-1352	-643	O
ATOM	6294	N	AMSE	F	460	39.968	-0.449	-34.693	0.50	54.86		N
ANISOU	6294	N	AMSE	F	460	6699	8908	5236	-220	-1732	-735	N
ATOM	6295	N	BMSE	F	460	39.971	-0.452	-34.680	0.50	54.79		N
ANISOU	6295	N	BMSE	F	460	6693	8900	5227	-219	-1735	-736	N
ATOM	6296	CA	AMSE	F	460	39.261	-1.491	-35.431	0.50	51.87		C
ANISOU	6296	CA	AMSE	F	460	6376	8449	4883	-31	-1585	-662	C
ATOM	6297	CA	BMSE	F	460	39.302	-1.517	-35.430	0.50	51.83		C
ANISOU	6297	CA	BMSE	F	460	6363	8450	4879	-25	-1593	-665	C
ATOM	6298	CB	AMSE	F	460	40.169	-2.121	-36.484	0.50	52.65		C
ANISOU	6298	CB	AMSE	F	460	6093	8789	5123	111	-1605	-728	C

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Figure 18 (continued)

ATOM	6299	CB	BMSE	F	460	40.281	-2.170	-36.413	0.50	52.63		C
ANISOU	6299	CB	BMSE	F	460	6078	8800	5119	127	-1634	-737	C
ATOM	6300	CG	AMSE	F	460	40.769	-1.118	-37.435	0.50	52.90		C
ANISOU	6300	CG	AMSE	F	460	5781	9031	5286	-116	-1474	-781	C
ATOM	6301	CG	BMSE	F	460	40.942	-1.184	-37.354	0.50	52.67		C
ANISOU	6301	CG	BMSE	F	460	5723	9028	5261	-97	-1512	-797	C
ATOM	6302	SE	AMSE	F	460	40.983	-1.865	-39.199	0.45	52.53		SE
ANISOU	6302	SE	AMSE	F	460	5430	9166	5364	3	-1264	-808	SE
ATOM	6303	SE	BMSE	F	460	39.627	-0.349	-38.511	0.45	48.23		SE
ANISOU	6303	SE	BMSE	F	460	5294	8313	4718	-315	-1143	-673	SE
ATOM	6304	CE	AMSE	F	460	42.271	-0.575	-39.921	0.50	54.18		C
ANISOU	6304	CE	AMSE	F	460	5186	9698	5701	-319	-1174	-914	C
ATOM	6305	CE	BMSE	F	460	40.149	1.530	-38.358	0.50	49.90		C
ANISOU	6305	CE	BMSE	F	460	5422	8568	4968	-714	-1105	-700	C
ATOM	6306	C	AMSE	F	460	38.707	-2.567	-34.517	0.50	51.44		C
ANISOU	6306	C	AMSE	F	460	6684	8191	4671	169	-1681	-606	C
ATOM	6307	C	BMSE	F	460	38.711	-2.576	-34.510	0.50	51.37		C
ANISOU	6307	C	BMSE	F	460	6676	8181	4661	171	-1683	-606	C
ATOM	6308	O	AMSE	F	460	39.431	-3.139	-33.701	0.50	54.01		O
ANISOU	6308	O	AMSE	F	460	7068	8548	4908	330	-1952	-636	O
ATOM	6309	O	BMSE	F	460	39.417	-3.146	-33.677	0.50	53.95		O
ANISOU	6309	O	BMSE	F	460	7068	8534	4895	330	-1953	-635	O
ATOM	6310	N	VAL	F	461	37.413	-2.830	-34.656	1.00	48.69		N
ANISOU	6310	N	VAL	F	461	6584	7631	4285	151	-1461	-525	N
ATOM	6311	CA	VAL	F	461	36.770	-3.939	-33.955	1.00	47.45		C
ANISOU	6311	CA	VAL	F	461	6786	7259	3984	298	-1478	-464	C
ATOM	6312	CB	VAL	F	461	35.734	-3.470	-32.897	1.00	47.00		C
ANISOU	6312	CB	VAL	F	461	7111	6980	3768	144	-1360	-424	C
ATOM	6313	CG1	VAL	F	461	36.434	-2.715	-31.786	1.00	49.19		C
ANISOU	6313	CG1	VAL	F	461	7483	7296	3912	62	-1566	-471	C
ATOM	6314	CG2	VAL	F	461	34.645	-2.627	-33.519	1.00	44.93		C
ANISOU	6314	CG2	VAL	F	461	6793	6661	3616	-36	-1068	-416	C
ATOM	6315	C	VAL	F	461	36.194	-4.970	-34.930	1.00	45.12		C
ANISOU	6315	C	VAL	F	461	6467	6905	3770	421	-1327	-434	C
ATOM	6316	O	VAL	F	461	35.935	-4.679	-36.100	1.00	43.35		O
ANISOU	6316	O	VAL	F	461	6011	6774	3686	357	-1162	-447	O
ATOM	6317	N	GLY	F	462	36.044	-6.197	-34.453	1.00	45.10		N
ANISOU	6317	N	GLY	F	462	6732	6740	3664	596	-1399	-395	N
ATOM	6318	CA	GLY	F	462	35.452	-7.240	-35.259	1.00	42.67		C
ANISOU	6318	CA	GLY	F	462	6463	6335	3417	690	-1260	-382	C
ATOM	6319	C	GLY	F	462	33.953	-7.209	-35.132	1.00	40.00		C
ANISOU	6319	C	GLY	F	462	6361	5797	3042	512	-999	-335	C
ATOM	6320	O	GLY	F	462	33.413	-6.646	-34.174	1.00	40.52		O
ANISOU	6320	O	GLY	F	462	6646	5756	2995	370	-939	-306	O
ATOM	6321	N	VAL	F	463	33.287	-7.800	-36.113	1.00	37.67		N
ANISOU	6321	N	VAL	F	463	6002	5468	2845	514	-838	-350	N
ATOM	6322	CA	VAL	F	463	31.848	-8.005	-36.073	1.00	35.82		C
ANISOU	6322	CA	VAL	F	463	5947	5057	2604	360	-600	-333	C
ATOM	6323	CB	VAL	F	463	31.095	-7.040	-37.020	1.00	33.67		C
ANISOU	6323	CB	VAL	F	463	5405	4907	2481	210	-430	-364	C
ATOM	6324	CG1	VAL	F	463	31.567	-7.173	-38.489	1.00	32.45		C
ANISOU	6324	CG1	VAL	F	463	4944	4937	2447	292	-457	-406	C
ATOM	6325	CG2	VAL	F	463	29.608	-7.232	-36.898	1.00	33.01		C
ANISOU	6325	CG2	VAL	F	463	5453	4672	2418	63	-204	-375	C
ATOM	6326	C	VAL	F	463	31.552	-9.483	-36.370	1.00	36.17		C
ANISOU	6326	C	VAL	F	463	6172	4936	2636	457	-567	-337	C
ATOM	6327	O	VAL	F	463	32.101	-10.045	-37.313	1.00	36.03		O
ANISOU	6327	O	VAL	F	463	5987	5003	2702	603	-633	-384	O
ATOM	6328	N	LEU	F	464	30.720	-10.110	-35.536	1.00	36.36		N
ANISOU	6328	N	LEU	F	464	6560	4711	2543	365	-452	-297	N
ATOM	6329	CA	LEU	F	464	30.401	-11.533	-35.679	1.00	37.09		C
ANISOU	6329	CA	LEU	F	464	6903	4585	2604	418	-409	-295	C
ATOM	6330	CB	LEU	F	464	30.195	-12.174	-34.286	1.00	39.07		C
ANISOU	6330	CB	LEU	F	464	7666	4549	2628	385	-405	-204	C
ATOM	6331	CG	LEU	F	464	31.419	-12.196	-33.354	1.00	40.94		C
ANISOU	6331	CG	LEU	F	464	8086	4773	2696	599	-705	-130	C
ATOM	6332	CD1	LEU	F	464	31.091	-12.743	-31.939	1.00	43.14		C
ANISOU	6332	CD1	LEU	F	464	8942	4755	2695	535	-688	-20	C
ATOM	6333	CD2	LEU	F	464	32.590	-12.974	-33.978	1.00	41.49		C
ANISOU	6333	CD2	LEU	F	464	8040	4887	2837	924	-961	-154	C
ATOM	6334	C	LEU	F	464	29.185	-11.752	-36.603	1.00	35.79		C

Figure 18 (continued)

ANISOU	6334	C	LEU	F	464	6614	4407	2578	242	-171	-368	C
ATOM	6335	O	LEU	F	464	28.472	-10.801	-36.896	1.00	33.02		O
ANISOU	6335	O	LEU	F	464	6037	4188	2322	87	-41	-402	O
ATOM	6336	N	PRO	F	465	28.971	-12.999	-37.096	1.00	37.43		N
ANISOU	6336	N	PRO	F	465	6964	4455	2802	278	-137	-405	N
ATOM	6337	CA	PRO	F	465	27.800	-13.306	-37.943	1.00	37.58		C
ANISOU	6337	CA	PRO	F	465	6875	4460	2944	89	62	-496	C
ATOM	6338	CB	PRO	F	465	27.950	-14.814	-38.211	1.00	39.80		C
ANISOU	6338	CB	PRO	F	465	7426	4504	3193	175	38	-526	C
ATOM	6339	CG	PRO	F	465	29.420	-15.040	-38.140	1.00	39.49		C
ANISOU	6339	CG	PRO	F	465	7412	4494	3099	501	-217	-486	C
ATOM	6340	CD	PRO	F	465	29.850	-14.180	-36.969	1.00	39.01		C
ANISOU	6340	CD	PRO	F	465	7417	4482	2924	517	-307	-380	C
ATOM	6341	C	PRO	F	465	26.410	-12.985	-37.360	1.00	38.58		C
ANISOU	6341	C	PRO	F	465	7067	4510	3081	-204	314	-511	C
ATOM	6342	O	PRO	F	465	25.432	-12.960	-38.117	1.00	38.80		O
ANISOU	6342	O	PRO	F	465	6890	4606	3248	-359	449	-608	O
ATOM	6343	N	ASP	F	466	26.316	-12.749	-36.047	1.00	39.71		N
ANISOU	6343	N	ASP	F	466	7482	4529	3078	-278	375	-433	N
ATOM	6344	CA	ASP	F	466	25.076	-12.246	-35.431	1.00	39.99		C
ANISOU	6344	CA	ASP	F	466	7530	4535	3128	-543	642	-469	C
ATOM	6345	CB	ASP	F	466	24.733	-13.040	-34.157	1.00	42.38		C
ANISOU	6345	CB	ASP	F	466	8343	4540	3221	-688	795	-405	C
ATOM	6346	CG	ASP	F	466	25.745	-12.838	-33.026	1.00	43.25		C
ANISOU	6346	CG	ASP	F	466	8774	4573	3086	-539	618	-276	C
ATOM	6347	OD1	ASP	F	466	26.686	-12.035	-33.161	1.00	40.47		O
ANISOU	6347	OD1	ASP	F	466	8215	4411	2751	-348	390	-255	O
ATOM	6348	OD2	ASP	F	466	25.589	-13.493	-31.976	1.00	46.27		O
ANISOU	6348	OD2	ASP	F	466	9636	4699	3245	-632	706	-198	O
ATOM	6349	C	ASP	F	466	25.070	-10.709	-35.183	1.00	38.76		C
ANISOU	6349	C	ASP	F	466	7126	4585	3017	-543	641	-473	C
ATOM	6350	O	ASP	F	466	24.221	-10.195	-34.450	1.00	39.42		O
ANISOU	6350	O	ASP	F	466	7256	4637	3087	-715	852	-505	O
ATOM	6351	N	MSE	F	467	26.016	-10.007	-35.819	1.00	37.33		N
ANISOU	6351	N	MSE	F	467	6690	4601	2894	-358	423	-453	N
ATOM	6352	CA	MSE	F	467	26.170	-8.534	-35.809	1.00	35.96		C
ANISOU	6352	CA	MSE	F	467	6277	4607	2779	-345	387	-455	C
ATOM	6353	CB	MSE	F	467	24.899	-7.811	-36.252	1.00	35.73		C
ANISOU	6353	CB	MSE	F	467	5992	4658	2926	-482	577	-541	C
ATOM	6354	CG	MSE	F	467	24.737	-7.701	-37.761	1.00	34.64		C
ANISOU	6354	CG	MSE	F	467	5513	4688	2961	-427	503	-584	C
ATOM	6355	SE	MSE	F	467	26.345	-7.142	-38.729	0.90	36.20		SE
ANISOU	6355	SE	MSE	F	467	5518	5088	3149	-218	224	-515	SE
ATOM	6356	CE	MSE	F	467	26.525	-5.301	-38.059	1.00	32.31		C
ANISOU	6356	CE	MSE	F	467	4958	4657	2664	-246	217	-475	C
ATOM	6357	C	MSE	F	467	26.703	-7.992	-34.476	1.00	37.22		C
ANISOU	6357	C	MSE	F	467	6683	4702	2756	-343	341	-397	C
ATOM	6358	O	MSE	F	467	26.687	-6.785	-34.186	1.00	35.87		O
ANISOU	6358	O	MSE	F	467	6406	4617	2608	-377	355	-413	O
ATOM	6359	N	THR	F	468	27.215	-8.919	-33.687	1.00	39.05		N
ANISOU	6359	N	THR	F	468	7274	4768	2795	-291	262	-331	N
ATOM	6360	CA	THR	F	468	27.716	-8.634	-32.358	1.00	40.94		C
ANISOU	6360	CA	THR	F	468	7827	4923	2805	-287	187	-272	C
ATOM	6361	CB	THR	F	468	27.372	-9.857	-31.476	1.00	43.19		C
ANISOU	6361	CB	THR	F	468	8602	4931	2878	-353	280	-210	C
ATOM	6362	OG1	THR	F	468	26.274	-9.513	-30.624	1.00	44.16		O
ANISOU	6362	OG1	THR	F	468	8907	4957	2915	-594	586	-247	O
ATOM	6363	CG2	THR	F	468	28.546	-10.408	-30.685	1.00	46.31		C
ANISOU	6363	CG2	THR	F	468	9341	5221	3032	-165	-11	-103	C
ATOM	6364	C	THR	F	468	29.201	-8.251	-32.487	1.00	40.62		C
ANISOU	6364	C	THR	F	468	7654	5035	2745	-81	-147	-239	C
ATOM	6365	O	THR	F	468	29.894	-8.776	-33.364	1.00	40.74		O
ANISOU	6365	O	THR	F	468	7490	5133	2857	84	-302	-238	O
ATOM	6366	N	PRO	F	469	29.679	-7.295	-31.671	1.00	41.09		N
ANISOU	6366	N	PRO	F	469	7766	5150	2694	-102	-242	-236	N
ATOM	6367	CA	PRO	F	469	31.083	-6.882	-31.768	1.00	41.16		C
ANISOU	6367	CA	PRO	F	469	7605	5330	2704	54	-555	-230	C
ATOM	6368	CB	PRO	F	469	31.077	-5.503	-31.123	1.00	40.81		C
ANISOU	6368	CB	PRO	F	469	7543	5347	2614	-81	-534	-273	C
ATOM	6369	CG	PRO	F	469	30.006	-5.598	-30.079	1.00	42.91		C
ANISOU	6369	CG	PRO	F	469	8187	5411	2707	-237	-295	-271	C

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Figure 18 (continued)

ATOM	6370	CD	PRO	F	469	28.964	-6.555	-30.615	1.00	42.09	
ANISOU	6370	CD	PRO	F	469	8108	5193	2693	-283	-58	-262
ATOM	6371	C	PRO	F	469	32.038	-7.820	-30.998	1.00	43.78	
ANISOU	6371	C	PRO	F	469	8232	5571	2832	239	-831	-163
ATOM	6372	O	PRO	F	469	31.609	-8.515	-30.066	1.00	45.55	
ANISOU	6372	O	PRO	F	469	8901	5569	2839	206	-778	-99
ATOM	6373	N	SER	F	470	33.313	-7.825	-31.394	1.00	43.90	
ANISOU	6373	N	SER	F	470	8000	5762	2916	433	-1119	-181
ATOM	6374	CA	SER	F	470	34.346	-8.639	-30.751	1.00	46.64	
ANISOU	6374	CA	SER	F	470	8551	6062	3110	671	-1446	-135
ATOM	6375	CB	SER	F	470	34.315	-10.073	-31.297	1.00	47.59	
ANISOU	6375	CB	SER	F	470	8779	6031	3271	863	-1454	-97
ATOM	6376	OG	SER	F	470	35.473	-10.807	-30.918	1.00	49.69	
ANISOU	6376	OG	SER	F	470	9140	6283	3454	1168	-1812	-71
ATOM	6377	C	SER	F	470	35.752	-8.045	-30.913	1.00	47.35	
ANISOU	6377	C	SER	F	470	8278	6429	3286	805	-1756	-203
ATOM	6378	O	SER	F	470	36.105	-7.528	-31.963	1.00	45.73	
ANISOU	6378	O	SER	F	470	7626	6442	3306	790	-1714	-278
ATOM	6379	N	THR	F	471	36.553	-8.143	-29.862	1.00	50.52	
ANISOU	6379	N	THR	F	471	8881	6821	3494	925	-2070	-182
ATOM	6380	CA	THR	F	471	37.935	-7.704	-29.919	1.00	52.23	
ANISOU	6380	CA	THR	F	471	8738	7311	3795	1058	-2399	-268
ATOM	6381	CB	THR	F	471	38.370	-7.063	-28.571	1.00	54.64	
ANISOU	6381	CB	THR	F	471	9275	7631	3857	989	-2649	-274
ATOM	6382	OG1	THR	F	471	38.127	-7.985	-27.503	1.00	57.14	
ANISOU	6382	OG1	THR	F	471	10164	7680	3867	1111	-2776	-156
ATOM	6383	CG2	THR	F	471	37.604	-5.758	-28.297	1.00	51.68	
ANISOU	6383	CG2	THR	F	471	8940	7250	3448	642	-2391	-311
ATOM	6384	C	THR	F	471	38.872	-8.866	-30.315	1.00	54.76	
ANISOU	6384	C	THR	F	471	8937	7670	4198	1425	-2659	-278
ATOM	6385	O	THR	F	471	40.081	-8.673	-30.459	1.00	56.74	
ANISOU	6385	O	THR	F	471	8822	8174	4560	1580	-2936	-374
ATOM	6386	N	GLU	F	472	38.310	-10.061	-30.502	1.00	55.20	
ANISOU	6386	N	GLU	F	472	9286	7473	4215	1560	-2559	-198
ATOM	6387	CA	GLU	F	472	39.103	-11.273	-30.764	1.00	58.61	
ANISOU	6387	CA	GLU	F	472	9708	7861	4701	1944	-2804	-203
ATOM	6388	CB	GLU	F	472	38.944	-12.273	-29.615	1.00	61.64	
ANISOU	6388	CB	GLU	F	472	10735	7900	4787	2108	-2991	-57
ATOM	6389	CG	GLU	F	472	39.602	-11.834	-28.294	1.00	66.05	
ANISOU	6389	CG	GLU	F	472	11497	8504	5096	2156	-3355	-23
ATOM	6390	CD	GLU	F	472	39.044	-12.577	-27.088	1.00	68.99	
ANISOU	6390	CD	GLU	F	472	12632	8493	5089	2173	-3414	155
ATOM	6391	OE1	GLU	F	472	39.536	-12.355	-25.958	1.00	74.88	
ANISOU	6391	OE1	GLU	F	472	13642	9238	5571	2229	-3734	199
ATOM	6392	OE2	GLU	F	472	38.110	-13.393	-27.270	1.00	70.96	
ANISOU	6392	OE2	GLU	F	472	13234	8438	5289	2110	-3138	248
ATOM	6393	C	GLU	F	472	38.814	-11.965	-32.106	1.00	56.75	
ANISOU	6393	C	GLU	F	472	9268	7606	4689	2022	-2575	-253
ATOM	6394	O	GLU	F	472	39.740	-12.338	-32.826	0.50	57.96	
ANISOU	6394	O	GLU	F	472	9067	7930	5026	2279	-2713	-356
ATOM	6395	N	AMSE	F	473	37.538	-12.106	-32.442	0.50	54.05	
ANISOU	6395	N	AMSE	F	473	9129	7077	4333	1792	-2225	-203
ATOM	6396	N	BMSE	F	473	37.527	-12.152	-32.413	0.50	54.67	
ANISOU	6396	N	BMSE	F	473	9227	7140	4403	1798	-2228	-198
ATOM	6397	CA	AMSE	F	473	37.154	-12.767	-33.686	0.50	52.38	
ANISOU	6397	CA	AMSE	F	473	8771	6831	4299	1830	-2013	-259
ATOM	6398	CA	BMSE	F	473	37.061	-12.837	-33.638	0.50	53.57	
ANISOU	6398	CA	BMSE	F	473	8970	6950	4436	1823	-2000	-249
ATOM	6399	CB	AMSE	F	473	36.349	-14.042	-33.398	0.50	53.56	
ANISOU	6399	CB	AMSE	F	473	9451	6579	4320	1866	-1917	-167
ATOM	6400	CB	BMSE	F	473	36.126	-14.020	-33.278	0.50	54.56	
ANISOU	6400	CB	BMSE	F	473	9648	6665	4417	1812	-1876	-149
ATOM	6401	CG	AMSE	F	473	37.019	-15.032	-32.430	0.50	57.16	
ANISOU	6401	CG	AMSE	F	473	10331	6794	4594	2182	-2241	-77
ATOM	6402	CG	BMSE	F	473	36.799	-15.413	-33.076	0.50	59.08	
ANISOU	6402	CG	BMSE	F	473	10512	7000	4934	2193	-2125	-118
ATOM	6403	SE	AMSE	F	473	38.682	-15.802	-33.103	0.45	58.91	
ANISOU	6403	SE	AMSE	F	473	10192	7173	5018	2733	-2611	-206
ATOM	6404	SE	BMSE	F	473	35.701	-16.903	-32.302	0.45	62.74	
ANISOU	6404	SE	BMSE	F	473	11838	6858	5142	2138	-1994	50
ATOM	6405	CE	AMSE	F	473	37.985	-17.029	-34.440	0.50	58.03	

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Figure 18 (continued)

ANISOU	6405	CE	AMSE	F	473	10158	6829	5063	2774	-2311	-279	C
ATOM	6406	CE	BMSE	F	473	34.039	-16.732	-33.323	0.50	58.44		C
ANISOU	6406	CE	BMSE	F	473	11168	6293	4743	1680	-1460	-22	C
ATOM	6407	C	AMSE	F	473	36.353	-11.826	-34.583	0.50	48.62		C
ANISOU	6407	C	AMSE	F	473	7996	6515	3962	1519	-1691	-310	C
ATOM	6408	C	BMSE	F	473	36.326	-11.854	-34.571	0.50	49.21		C
ANISOU	6408	C	BMSE	F	473	8085	6580	4033	1518	-1688	-307	C
ATOM	6409	O	AMSE	F	473	35.756	-10.854	-34.118	0.50	46.99		O
ANISOU	6409	O	AMSE	F	473	7827	6334	3694	1260	-1572	-275	O
ATOM	6410	O	BMSE	F	473	35.750	-10.866	-34.112	0.50	47.60		O
ANISOU	6410	O	BMSE	F	473	7908	6407	3769	1261	-1572	-274	O
ATOM	6411	N	SER	F	474	36.355	-12.116	-35.876	1.00	47.59		N
ANISOU	6411	N	SER	F	474	7586	6486	4008	1564	-1563	-398	N
ATOM	6412	CA	SER	F	474	35.584	-11.319	-36.852	1.00	44.33		C
ANISOU	6412	CA	SER	F	474	6917	6214	3712	1304	-1290	-437	C
ATOM	6413	CB	SER	F	474	36.392	-10.097	-37.301	1.00	43.46		C
ANISOU	6413	CB	SER	F	474	6360	6443	3709	1243	-1335	-499	C
ATOM	6414	OG	SER	F	474	35.624	-9.222	-38.089	1.00	39.78		O
ANISOU	6414	OG	SER	F	474	5726	6072	3317	997	-1104	-503	O
ATOM	6415	C	SER	F	474	35.225	-12.160	-38.070	1.00	43.77		C
ANISOU	6415	C	SER	F	474	6781	6105	3745	1359	-1143	-510	C
ATOM	6416	O	SER	F	474	35.885	-13.164	-38.345	1.00	45.97		O
ANISOU	6416	O	SER	F	474	7084	6329	4052	1623	-1256	-566	O
ATOM	6417	N	MSE	F	475	34.196	-11.754	-38.806	1.00	41.25		N
ANISOU	6417	N	MSE	F	475	6380	5813	3480	1127	-909	-523	N
ATOM	6418	CA	MSE	F	475	34.003	-12.291	-40.149	1.00	40.97		C
ANISOU	6418	CA	MSE	F	475	6197	5831	3539	1157	-792	-619	C
ATOM	6419	CB	MSE	F	475	32.693	-11.806	-40.771	1.00	38.57		C
ANISOU	6419	CB	MSE	F	475	5849	5536	3270	888	-576	-618	C
ATOM	6420	CG	MSE	F	475	31.457	-12.502	-40.205	1.00	38.53		C
ANISOU	6420	CG	MSE	F	475	6187	5241	3212	749	-456	-585	C
ATOM	6421	SE	MSE	F	475	29.784	-11.880	-40.999	0.90	37.77		SE
ANISOU	6421	SE	MSE	F	475	5943	5203	3204	437	-222	-623	SE
ATOM	6422	CE	MSE	F	475	29.784	-10.021	-40.369	1.00	34.50		C
ANISOU	6422	CE	MSE	F	475	5347	4962	2799	318	-223	-536	C
ATOM	6423	C	MSE	F	475	35.210	-11.913	-41.018	1.00	41.26		C
ANISOU	6423	C	MSE	F	475	5836	6174	3668	1296	-861	-711	C
ATOM	6424	O	MSE	F	475	35.709	-10.786	-40.947	1.00	40.52		O
ANISOU	6424	O	MSE	F	475	5499	6296	3600	1209	-892	-694	O
ATOM	6425	N	ARG	F	476	35.662	-12.871	-41.825	1.00	42.54		N
ANISOU	6425	N	ARG	F	476	5947	6338	3877	1494	-862	-821	N
ATOM	6426	CA	ARG	F	476	36.908	-12.783	-42.592	1.00	43.25		C
ANISOU	6426	CA	ARG	F	476	5676	6704	4054	1670	-906	-942	C
ATOM	6427	CB	ARG	F	476	37.047	-14.035	-43.462	1.00	44.93		C
ANISOU	6427	CB	ARG	F	476	5941	6831	4299	1877	-855	-1078	C
ATOM	6428	CG	ARG	F	476	38.089	-13.966	-44.568	1.00	47.16		C
ANISOU	6428	CG	ARG	F	476	5839	7416	4664	2010	-797	-1241	C
ATOM	6429	CD	ARG	F	476	38.138	-15.267	-45.379	1.00	48.80		C
ANISOU	6429	CD	ARG	F	476	6156	7498	4889	2224	-733	-1397	C
ATOM	6430	NE	ARG	F	476	36.829	-15.772	-45.815	1.00	48.30		N
ANISOU	6430	NE	ARG	F	476	6394	7206	4752	2046	-602	-1383	N
ATOM	6431	CZ	ARG	F	476	36.126	-15.297	-46.843	1.00	47.93		C
ANISOU	6431	CZ	ARG	F	476	6261	7289	4660	1803	-431	-1409	C
ATOM	6432	NH1	ARG	F	476	36.574	-14.273	-47.565	1.00	48.79		N
ANISOU	6432	NH1	ARG	F	476	6042	7730	4765	1693	-345	-1425	N
ATOM	6433	NH2	ARG	F	476	34.962	-15.848	-47.154	1.00	46.79		N
ANISOU	6433	NH2	ARG	F	476	6372	6939	4466	1657	-353	-1419	N
ATOM	6434	C	ARG	F	476	37.030	-11.498	-43.416	1.00	41.10		C
ANISOU	6434	C	ARG	F	476	5060	6740	3817	1453	-777	-953	C
ATOM	6435	O	ARG	F	476	36.182	-11.199	-44.258	1.00	39.12		O
ANISOU	6435	O	ARG	F	476	4810	6511	3545	1266	-612	-945	O
ATOM	6436	N	GLY	F	477	38.082	-10.733	-43.140	1.00	41.43		N
ANISOU	6436	N	GLY	F	477	4825	7009	3906	1471	-870	-969	N
ATOM	6437	CA	GLY	F	477	38.354	-9.486	-43.850	1.00	40.53		C
ANISOU	6437	CA	GLY	F	477	4413	7168	3820	1250	-748	-972	C
ATOM	6438	C	GLY	F	477	37.457	-8.303	-43.526	1.00	37.97		C
ANISOU	6438	C	GLY	F	477	4192	6789	3447	958	-686	-834	C
ATOM	6439	O	GLY	F	477	37.588	-7.235	-44.118	1.00	37.40		O
ANISOU	6439	O	GLY	F	477	3939	6888	3383	765	-584	-814	O
ATOM	6440	N	ILE	F	478	36.549	-8.489	-42.574	1.00	37.64		N
ANISOU	6440	N	ILE	F	478	4456	6494	3350	927	-734	-743	N

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Figure 18 (continued)

ATOM	6441	CA	ILE	F	478	35.552	-7.457	-42.189	1.00	35.63	
ANISOU	6441	CA	ILE	F	478	4320	6155	3064	685	-661	-635
ATOM	6442	CB	ILE	F	478	34.126	-8.080	-42.125	1.00	34.02	
ANISOU	6442	CB	ILE	F	478	4389	5711	2826	640	-565	-600
ATOM	6443	CG1	ILE	F	478	33.806	-8.827	-43.435	1.00	33.55	
ANISOU	6443	CG1	ILE	F	478	4276	5687	2784	683	-466	-676
ATOM	6444	CD1	ILE	F	478	33.521	-7.945	-44.656	1.00	30.29	
ANISOU	6444	CD1	ILE	F	478	3677	5452	2378	537	-355	-670
ATOM	6445	CG2	ILE	F	478	33.074	-7.027	-41.766	1.00	33.10	
ANISOU	6445	CG2	ILE	F	478	4345	5524	2706	427	-477	-518
ATOM	6446	C	ILE	F	478	35.903	-6.782	-40.854	1.00	36.01	
ANISOU	6446	C	ILE	F	478	4438	6165	3079	636	-794	-583
ATOM	6447	O	ILE	F	478	35.986	-7.446	-39.812	1.00	37.11	
ANISOU	6447	O	ILE	F	478	4791	6153	3155	758	-925	-568
ATOM	6448	N	ARG	F	479	36.123	-5.467	-40.889	1.00	35.61	
ANISOU	6448	N	ARG	F	479	4243	6236	3052	452	-766	-558
ATOM	6449	CA	ARG	F	479	36.358	-4.678	-39.648	1.00	35.25	
ANISOU	6449	CA	ARG	F	479	4285	6146	2962	361	-880	-526
ATOM	6450	CB	ARG	F	479	37.771	-4.102	-39.604	1.00	37.00	
ANISOU	6450	CB	ARG	F	479	4220	6604	3234	340	-1006	-596
ATOM	6451	CG	ARG	F	479	38.905	-5.105	-39.660	1.00	39.51	
ANISOU	6451	CG	ARG	F	479	4354	7064	3594	589	-1165	-694
ATOM	6452	CD	ARG	F	479	38.890	-6.113	-38.506	1.00	39.37	
ANISOU	6452	CD	ARG	F	479	4610	6863	3485	811	-1371	-676
ATOM	6453	NE	ARG	F	479	39.992	-7.062	-38.667	1.00	43.02	
ANISOU	6453	NE	ARG	F	479	4879	7454	4013	1100	-1539	-778
ATOM	6454	CZ	ARG	F	479	39.943	-8.180	-39.394	1.00	42.54	
ANISOU	6454	CZ	ARG	F	479	4821	7349	3992	1310	-1482	-822
ATOM	6455	NH1	ARG	F	479	38.836	-8.535	-40.045	1.00	39.17	
ANISOU	6455	NH1	ARG	F	479	4582	6764	3539	1240	-1271	-774
ATOM	6456	NH2	ARG	F	479	41.014	-8.951	-39.460	1.00	44.32	
ANISOU	6456	NH2	ARG	F	479	4855	7691	4295	1600	-1648	-933
ATOM	6457	C	ARG	F	479	35.379	-3.518	-39.523	1.00	33.52	
ANISOU	6457	C	ARG	F	479	4176	5824	2735	141	-749	-457
ATOM	6458	O	ARG	F	479	34.960	-2.946	-40.533	1.00	33.11	
ANISOU	6458	O	ARG	F	479	4023	5824	2735	39	-613	-431
ATOM	6459	N	VAL	F	480	35.010	-3.170	-38.293	1.00	33.05	
ANISOU	6459	N	VAL	F	480	4342	5614	2601	83	-794	-431
ATOM	6460	CA	VAL	F	480	34.211	-1.973	-38.054	1.00	31.67	
ANISOU	6460	CA	VAL	F	480	4261	5340	2433	-100	-679	-394
ATOM	6461	CB	VAL	F	480	32.975	-2.270	-37.150	1.00	31.19	
ANISOU	6461	CB	VAL	F	480	4503	5047	2302	-107	-586	-373
ATOM	6462	CG1	VAL	F	480	32.299	-0.976	-36.650	1.00	29.99	
ANISOU	6462	CG1	VAL	F	480	4449	4788	2157	-263	-483	-369
ATOM	6463	CG2	VAL	F	480	31.966	-3.168	-37.871	1.00	30.56	
ANISOU	6463	CG2	VAL	F	480	4439	4902	2268	-46	-452	-362
ATOM	6464	C	VAL	F	480	35.128	-0.915	-37.429	1.00	32.95	
ANISOU	6464	C	VAL	F	480	4368	5575	2578	-225	-792	-424
ATOM	6465	O	VAL	F	480	35.745	-1.151	-36.395	1.00	34.11	
ANISOU	6465	O	VAL	F	480	4604	5721	2637	-182	-961	-460
ATOM	6466	N	SER	F	481	35.233	0.241	-38.068	1.00	33.25	
ANISOU	6466	N	SER	F	481	4278	5667	2688	-388	-713	-411
ATOM	6467	CA	SER	F	481	36.017	1.336	-37.502	1.00	35.24	
ANISOU	6467	CA	SER	F	481	4499	5958	2933	-559	-797	-452
ATOM	6468	CB	SER	F	481	36.437	2.355	-38.572	1.00	35.71	
ANISOU	6468	CB	SER	F	481	4370	6117	3082	-738	-702	-431
ATOM	6469	OG	SER	F	481	37.145	3.457	-37.988	1.00	38.65	
ANISOU	6469	OG	SER	F	481	4738	6495	3454	-948	-769	-482
ATOM	6470	C	SER	F	481	35.306	2.040	-36.341	1.00	35.43	
ANISOU	6470	C	SER	F	481	4816	5766	2882	-645	-777	-459
ATOM	6471	O	SER	F	481	34.117	2.366	-36.409	1.00	34.16	
ANISOU	6471	O	SER	F	481	4805	5434	2740	-653	-618	-419
ATOM	6472	N	LYS	F	482	36.073	2.261	-35.283	1.00	37.40	
ANISOU	6472	N	LYS	F	482	5126	6040	3045	-702	-948	-528
ATOM	6473	CA	LYS	F	482	35.676	3.070	-34.149	1.00	38.68	
ANISOU	6473	CA	LYS	F	482	5562	6025	3110	-819	-945	-569
ATOM	6474	CB	LYS	F	482	36.268	2.482	-32.863	1.00	40.92	
ANISOU	6474	CB	LYS	F	482	5998	6331	3219	-756	-1171	-627
ATOM	6475	CG	LYS	F	482	35.631	1.192	-32.366	1.00	43.46	
ANISOU	6475	CG	LYS	F	482	6540	6556	3418	-560	-1164	-577
ATOM	6476	CD	LYS	F	482	34.408	1.466	-31.467	1.00	47.95	

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Figure 18 (continued)

ANISOU	6476	CD	LYS	F	482	7475	6881	3862	-619	-984	-579	C
ATOM	6477	CE	LYS	F	482	33.121	1.568	-32.297	1.00	47.40		C
ANISOU	6477	CE	LYS	F	482	7363	6708	3938	-612	-696	-534	C
ATOM	6478	NZ	LYS	F	482	32.024	2.121	-31.458	1.00	48.36		N
ANISOU	6478	NZ	LYS	F	482	7761	6627	3987	-690	-499	-580	N
ATOM	6479	C	LYS	F	482	36.172	4.524	-34.290	1.00	39.57		C
ANISOU	6479	C	LYS	F	482	5613	6135	3288	-1061	-935	-613	C
ATOM	6480	O	LYS	F	482	35.963	5.337	-33.378	1.00	40.79		O
ANISOU	6480	O	LYS	F	482	5995	6137	3367	-1181	-937	-673	O
ATOM	6481	N	MSE	F	483	36.839	4.848	-35.404	1.00	38.62		N
ANISOU	6481	N	MSE	F	483	5216	6167	3290	-1150	-910	-591	N
ATOM	6482	CA	MSE	F	483	37.361	6.208	-35.607	1.00	39.11		C
ANISOU	6482	CA	MSE	F	483	5242	6208	3412	-1419	-881	-623	C
ATOM	6483	CB	MSE	F	483	38.321	6.273	-36.805	1.00	39.75		C
ANISOU	6483	CB	MSE	F	483	4987	6519	3599	-1525	-853	-609	C
ATOM	6484	CG	MSE	F	483	39.626	5.497	-36.598	1.00	41.96		C
ANISOU	6484	CG	MSE	F	483	4958	7098	3887	-1482	-1052	-714	C
ATOM	6485	SE	MSE	F	483	40.539	5.770	-34.876	0.90	50.05		SE
ANISOU	6485	SE	MSE	F	483	6036	8169	4812	-1584	-1372	-884	SE
ATOM	6486	CE	MSE	F	483	41.373	7.511	-35.168	1.00	48.50		C
ANISOU	6486	CE	MSE	F	483	5726	7986	4714	-2058	-1303	-969	C
ATOM	6487	C	MSE	F	483	36.227	7.226	-35.749	1.00	37.49		C
ANISOU	6487	C	MSE	F	483	5289	5719	3238	-1481	-693	-566	C
ATOM	6488	O	MSE	F	483	35.094	6.823	-36.053	1.00	35.28		O
ANISOU	6488	O	MSE	F	483	5099	5332	2975	-1307	-572	-494	O
ATOM	6489	OXT	MSE	F	483	36.389	8.431	-35.532	1.00	37.47		O
ANISOU	6489	OXT	MSE	F	483	5406	5580	3252	-1689	-668	-602	O
ATOM	6490	O2G	MGT	A	1	48.431	21.314	-32.822	1.00	51.34		O
ANISOU	6490	O2G	MGT	A	1	5580	7344	6582	-151	662	268	O
ATOM	6491	PG	MGT	A	1	47.642	21.644	-31.468	1.00	49.83		P
ANISOU	6491	PG	MGT	A	1	5455	6960	6518	-139	518	275	P
ATOM	6492	O3G	MGT	A	1	46.906	20.295	-30.960	1.00	45.91		O
ANISOU	6492	O3G	MGT	A	1	5042	6412	5989	23	408	176	O
ATOM	6493	O1G	MGT	A	1	48.607	22.186	-30.469	1.00	50.23		O
ANISOU	6493	O1G	MGT	A	1	5363	7007	6715	-196	508	226	O
ATOM	6494	O3B	MGT	A	1	46.392	22.571	-31.946	1.00	49.90		O
ANISOU	6494	O3B	MGT	A	1	5618	6851	6491	-212	497	434	O
ATOM	6495	PB	MGT	A	1	46.500	23.966	-32.785	1.00	50.34		P
ANISOU	6495	PB	MGT	A	1	5693	6896	6537	-368	593	604	P
ATOM	6496	O2B	MGT	A	1	46.307	23.569	-34.337	1.00	50.62		O
ANISOU	6496	O2B	MGT	A	1	5793	7073	6368	-354	675	667	O
ATOM	6497	O1B	MGT	A	1	47.806	24.652	-32.528	1.00	51.47		O
ANISOU	6497	O1B	MGT	A	1	5686	7087	6785	-486	681	592	O
ATOM	6498	O3A	MGT	A	1	45.229	24.838	-32.232	1.00	49.00		O
ANISOU	6498	O3A	MGT	A	1	5651	6519	6447	-386	490	701	O
ATOM	6499	PA	MGT	A	1	43.722	24.280	-31.756	1.00	44.78		P
ANISOU	6499	PA	MGT	A	1	5239	5880	5896	-269	352	675	P
ATOM	6500	O2A	MGT	A	1	43.564	22.796	-32.345	1.00	45.17		O
ANISOU	6500	O2A	MGT	A	1	5307	6056	5798	-157	346	583	O
ATOM	6501	O1A	MGT	A	1	42.713	25.256	-32.229	1.00	46.58		O
ANISOU	6501	O1A	MGT	A	1	5577	6005	6118	-305	327	828	O
ATOM	6502	O5*	MGT	A	1	43.626	24.206	-30.136	1.00	42.80		O
ANISOU	6502	O5*	MGT	A	1	4955	5516	5792	-234	258	568	O
ATOM	6503	C5*	MGT	A	1	43.771	25.451	-29.389	1.00	38.57		C
ANISOU	6503	C5*	MGT	A	1	4398	4855	5403	-327	250	603	C
ATOM	6504	C4*	MGT	A	1	44.860	25.368	-28.297	1.00	34.92		C
ANISOU	6504	C4*	MGT	A	1	3808	4419	5042	-349	242	478	C
ATOM	6505	O4*	MGT	A	1	44.641	24.152	-27.533	1.00	33.27		O
ANISOU	6505	O4*	MGT	A	1	3599	4240	4800	-224	161	362	O
ATOM	6506	C3*	MGT	A	1	46.295	25.288	-28.821	1.00	34.19		C
ANISOU	6506	C3*	MGT	A	1	3578	4475	4937	-411	343	453	C
ATOM	6507	O3*	MGT	A	1	47.120	26.048	-27.945	1.00	35.75		O
ANISOU	6507	O3*	MGT	A	1	3669	4640	5274	-506	342	399	O
ATOM	6508	C2*	MGT	A	1	46.671	23.831	-28.682	1.00	33.94		C
ANISOU	6508	C2*	MGT	A	1	3496	4568	4833	-279	318	333	C
ATOM	6509	O2*	MGT	A	1	48.079	23.737	-28.438	1.00	37.14		O
ANISOU	6509	O2*	MGT	A	1	3729	5093	5289	-308	364	248	O
ATOM	6510	C1*	MGT	A	1	45.936	23.471	-27.403	1.00	30.89		C
ANISOU	6510	C1*	MGT	A	1	3166	4076	4495	-198	191	266	C
ATOM	6511	N9	MGT	A	1	45.522	22.046	-27.080	1.00	29.66		N
ANISOU	6511	N9	MGT	A	1	3059	3943	4269	-51	124	187	N

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Figure 18 (continued)

ATOM	6512	C8	MGT	A	1	44.505	21.434	-27.715	1.00	27.88		C
ANISOU	6512	C8	MGT	A	1	2948	3695	3949	8	112	221	C
ATOM	6513	N7	MGT	A	1	44.411	20.228	-27.155	1.00	27.01		N
ANISOU	6513	N7	MGT	A	1	2858	3589	3815	120	53	134	N
ATOM	6514	CM7	MGT	A	1	43.375	19.249	-27.561	1.00	25.30		C
ANISOU	6514	CM7	MGT	A	1	2758	3341	3512	194	23	127	C
ATOM	6515	C5	MGT	A	1	45.336	20.071	-26.191	1.00	27.24		C
ANISOU	6515	C5	MGT	A	1	2792	3648	3910	147	21	59	C
ATOM	6516	C4	MGT	A	1	46.053	21.249	-26.149	1.00	27.82		C
ANISOU	6516	C4	MGT	A	1	2769	3743	4059	34	64	84	C
ATOM	6517	N3	MGT	A	1	47.061	21.426	-25.271	1.00	27.51		N
ANISOU	6517	N3	MGT	A	1	2607	3751	4096	24	36	11	N
ATOM	6518	C2	MGT	A	1	47.423	20.471	-24.405	1.00	28.78		C
ANISOU	6518	C2	MGT	A	1	2738	3945	4254	139	-41	-75	C
ATOM	6519	N2	MGT	A	1	48.443	20.701	-23.575	1.00	29.71		N
ANISOU	6519	N2	MGT	A	1	2722	4129	4439	129	-80	-146	N
ATOM	6520	N1	MGT	A	1	46.712	19.246	-24.380	1.00	27.51		N
ANISOU	6520	N1	MGT	A	1	2690	3743	4019	264	-84	-86	N
ATOM	6521	C6	MGT	A	1	45.678	19.057	-25.295	1.00	26.68		C
ANISOU	6521	C6	MGT	A	1	2705	3587	3846	258	-48	-26	C
ATOM	6522	O6	MGT	A	1	45.070	17.997	-25.311	1.00	27.25		O
ANISOU	6522	O6	MGT	A	1	2870	3620	3863	348	-80	-46	O
ATOM	6523	O2G	MGT	B	1	8.911	7.379	-30.815	1.00	52.96		O
ANISOU	6523	O2G	MGT	B	1	6523	7405	6194	480	-1101	341	O
ATOM	6524	PG	MGT	B	1	8.686	7.207	-29.221	1.00	49.79		P
ANISOU	6524	PG	MGT	B	1	5992	6928	5999	504	-1012	247	P
ATOM	6525	O3G	MGT	B	1	10.111	6.727	-28.566	1.00	47.34		O
ANISOU	6525	O3G	MGT	B	1	5764	6484	5738	339	-851	158	O
ATOM	6526	O1G	MGT	B	1	8.184	8.475	-28.631	1.00	50.87		O
ANISOU	6526	O1G	MGT	B	1	6159	6948	6223	702	-1015	339	O
ATOM	6527	O3B	MGT	B	1	7.735	5.911	-29.048	1.00	49.75		O
ANISOU	6527	O3B	MGT	B	1	5755	7120	6027	437	-1075	126	O
ATOM	6528	PB	MGT	B	1	6.305	5.749	-29.792	1.00	51.97		P
ANISOU	6528	PB	MGT	B	1	5864	7633	6251	512	-1261	156	P
ATOM	6529	O2B	MGT	B	1	6.621	5.123	-31.256	1.00	52.42		O
ANISOU	6529	O2B	MGT	B	1	6011	7805	6099	381	-1353	144	O
ATOM	6530	O1B	MGT	B	1	5.596	7.053	-29.893	1.00	53.94		O
ANISOU	6530	O1B	MGT	B	1	6111	7869	6514	750	-1339	301	O
ATOM	6531	O3A	MGT	B	1	5.465	4.683	-28.886	1.00	50.43		O
ANISOU	6531	O3A	MGT	B	1	5422	7553	6185	435	-1246	27	O
ATOM	6532	PA	MGT	B	1	5.986	3.318	-28.093	1.00	45.51		P
ANISOU	6532	PA	MGT	B	1	4771	6888	5634	227	-1122	-129	P
ATOM	6533	O2A	MGT	B	1	7.298	2.764	-28.782	1.00	43.17		O
ANISOU	6533	O2A	MGT	B	1	4672	6508	5222	84	-1068	-175	O
ATOM	6534	O1A	MGT	B	1	4.876	2.329	-28.139	1.00	43.87		O
ANISOU	6534	O1A	MGT	B	1	4348	6870	5450	131	-1206	-207	O
ATOM	6535	O5*	MGT	B	1	6.408	3.771	-26.568	1.00	42.04		O
ANISOU	6535	O5*	MGT	B	1	4356	6273	5345	294	-960	-138	O
ATOM	6536	C5*	MGT	B	1	5.376	4.024	-25.569	1.00	40.75		C
ANISOU	6536	C5*	MGT	B	1	4018	6158	5306	403	-935	-137	C
ATOM	6537	C4*	MGT	B	1	5.580	5.362	-24.810	1.00	38.17		C
ANISOU	6537	C4*	MGT	B	1	3791	5670	5043	591	-859	-67	C
ATOM	6538	O4*	MGT	B	1	6.866	5.317	-24.120	1.00	33.12		O
ANISOU	6538	O4*	MGT	B	1	3324	4841	4420	503	-736	-111	O
ATOM	6539	C3*	MGT	B	1	5.606	6.610	-25.719	1.00	38.56		C
ANISOU	6539	C3*	MGT	B	1	3962	5672	5018	750	-947	64	C
ATOM	6540	O3*	MGT	B	1	4.951	7.705	-25.060	1.00	39.09		O
ANISOU	6540	O3*	MGT	B	1	4007	5678	5169	978	-922	122	O
ATOM	6541	C2*	MGT	B	1	7.108	6.900	-25.892	1.00	36.08		C
ANISOU	6541	C2*	MGT	B	1	3897	5166	4648	655	-875	76	C
ATOM	6542	O2*	MGT	B	1	7.314	8.312	-26.089	1.00	40.76		O
ANISOU	6542	O2*	MGT	B	1	4655	5608	5223	807	-882	193	O
ATOM	6543	C1*	MGT	B	1	7.650	6.495	-24.540	1.00	30.98		C
ANISOU	6543	C1*	MGT	B	1	3257	4415	4100	578	-738	-22	C
ATOM	6544	N9	MGT	B	1	9.078	6.082	-24.348	1.00	28.02		N
ANISOU	6544	N9	MGT	B	1	3017	3924	3707	418	-654	-71	N
ATOM	6545	C8	MGT	B	1	9.633	4.953	-24.839	1.00	26.32		C
ANISOU	6545	C8	MGT	B	1	2789	3772	3439	259	-650	-132	C
ATOM	6546	N7	MGT	B	1	10.913	4.962	-24.399	1.00	26.18		N
ANISOU	6546	N7	MGT	B	1	2885	3627	3435	179	-562	-155	N
ATOM	6547	CM7	MGT	B	1	11.908	3.911	-24.712	1.00	23.88		C

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Figure 18 (continued)

ANISOU	6547	CM7	MGT	B	1	2618	3350	3106	33	-517	-218	C
ATOM	6548	C5	MGT	B	1	11.150	6.053	-23.649	1.00	26.92		C
ANISOU	6548	C5	MGT	B	1	3066	3581	3583	257	-521	-117	C
ATOM	6549	C4	MGT	B	1	9.951	6.759	-23.616	1.00	26.32		C
ANISOU	6549	C4	MGT	B	1	2937	3533	3529	418	-573	-67	C
ATOM	6550	N3	MGT	B	1	9.832	7.907	-22.934	1.00	26.49		N
ANISOU	6550	N3	MGT	B	1	3046	3417	3601	542	-541	-32	N
ATOM	6551	C2	MGT	B	1	10.866	8.432	-22.259	1.00	27.34		C
ANISOU	6551	C2	MGT	B	1	3301	3354	3732	486	-471	-49	C
ATOM	6552	N2	MGT	B	1	10.701	9.584	-21.612	1.00	27.16		N
ANISOU	6552	N2	MGT	B	1	3394	3178	3749	604	-444	-27	N
ATOM	6553	N1	MGT	B	1	12.111	7.743	-22.231	1.00	25.77		N
ANISOU	6553	N1	MGT	B	1	3131	3144	3516	307	-431	-94	N
ATOM	6554	C6	MGT	B	1	12.248	6.556	-22.934	1.00	25.10		C
ANISOU	6554	C6	MGT	B	1	2952	3198	3385	209	-450	-125	C
ATOM	6555	O6	MGT	B	1	13.319	5.964	-22.921	1.00	23.93		O
ANISOU	6555	O6	MGT	B	1	2823	3040	3228	85	-407	-162	O
ATOM	6556	O2G	MGT	D	1	61.475	-17.770	-25.548	1.00	67.38		O
ANISOU	6556	O2G	MGT	D	1	9188	7995	8420	107	942	-1582	O
ATOM	6557	PG	MGT	D	1	62.375	-16.755	-24.687	1.00	63.67		P
ANISOU	6557	PG	MGT	D	1	8522	7594	8077	197	990	-1352	P
ATOM	6558	O3G	MGT	D	1	61.503	-15.362	-24.545	1.00	60.97		O
ANISOU	6558	O3G	MGT	D	1	8082	7476	7609	96	876	-1228	O
ATOM	6559	O1G	MGT	D	1	62.653	-17.429	-23.397	1.00	61.93		O
ANISOU	6559	O1G	MGT	D	1	8255	7184	8089	201	946	-1268	O
ATOM	6560	O3B	MGT	D	1	63.673	-16.536	-25.716	1.00	64.52		O
ANISOU	6560	O3B	MGT	D	1	8633	7752	8130	376	1208	-1392	O
ATOM	6561	PB	MGT	D	1	64.918	-15.449	-25.741	1.00	62.58		P
ANISOU	6561	PB	MGT	D	1	8215	7622	7940	497	1355	-1237	P
ATOM	6562	O2B	MGT	D	1	65.139	-15.212	-27.321	1.00	64.91		O
ANISOU	6562	O2B	MGT	D	1	8631	8045	7988	558	1524	-1348	O
ATOM	6563	O1B	MGT	D	1	66.180	-15.970	-25.139	1.00	63.51		O
ANISOU	6563	O1B	MGT	D	1	8220	7601	8311	635	1450	-1195	O
ATOM	6564	O3A	MGT	D	1	64.421	-13.964	-25.210	1.00	59.32		O
ANISOU	6564	O3A	MGT	D	1	7676	7379	7485	401	1242	-1049	O
ATOM	6565	PA	MGT	D	1	65.432	-12.750	-24.675	1.00	56.96		P
ANISOU	6565	PA	MGT	D	1	7170	7154	7317	450	1303	-853	P
ATOM	6566	O2A	MGT	D	1	64.807	-11.421	-25.326	1.00	57.92		O
ANISOU	6566	O2A	MGT	D	1	7315	7462	7229	384	1286	-780	O
ATOM	6567	O1A	MGT	D	1	66.884	-12.915	-25.008	1.00	57.06		O
ANISOU	6567	O1A	MGT	D	1	7089	7135	7457	589	1504	-851	O
ATOM	6568	O5*	MGT	D	1	65.125	-12.590	-23.090	1.00	52.24		O
ANISOU	6568	O5*	MGT	D	1	6467	6494	6888	382	1121	-735	O
ATOM	6569	C5*	MGT	D	1	66.139	-12.982	-22.146	1.00	47.19		C
ANISOU	6569	C5*	MGT	D	1	5707	5738	6485	461	1122	-671	C
ATOM	6570	C4*	MGT	D	1	65.571	-13.910	-21.075	1.00	41.42		C
ANISOU	6570	C4*	MGT	D	1	5036	4863	5837	416	977	-675	C
ATOM	6571	O4*	MGT	D	1	64.237	-13.425	-20.723	1.00	38.14		O
ANISOU	6571	O4*	MGT	D	1	4670	4525	5297	270	847	-650	O
ATOM	6572	C3*	MGT	D	1	65.400	-15.351	-21.574	1.00	41.82		C
ANISOU	6572	C3*	MGT	D	1	5242	4761	5887	450	1023	-828	C
ATOM	6573	O3*	MGT	D	1	66.052	-16.225	-20.646	1.00	42.77		O
ANISOU	6573	O3*	MGT	D	1	5339	4701	6212	533	987	-785	O
ATOM	6574	C2*	MGT	D	1	63.880	-15.578	-21.583	1.00	38.52		C
ANISOU	6574	C2*	MGT	D	1	4952	4355	5329	288	909	-890	C
ATOM	6575	O2*	MGT	D	1	63.571	-16.924	-21.181	1.00	41.39		O
ANISOU	6575	O2*	MGT	D	1	5434	4513	5779	262	869	-960	O
ATOM	6576	C1*	MGT	D	1	63.397	-14.606	-20.531	1.00	32.26		C
ANISOU	6576	C1*	MGT	D	1	4058	3655	4544	202	787	-739	C
ATOM	6577	N9	MGT	D	1	61.985	-14.077	-20.575	1.00	30.62		N
ANISOU	6577	N9	MGT	D	1	3877	3566	4190	57	691	-749	N
ATOM	6578	C8	MGT	D	1	61.537	-13.152	-21.455	1.00	28.56		C
ANISOU	6578	C8	MGT	D	1	3608	3474	3770	36	699	-767	C
ATOM	6579	N7	MGT	D	1	60.245	-12.956	-21.135	1.00	28.87		N
ANISOU	6579	N7	MGT	D	1	3649	3576	3745	-86	585	-769	N
ATOM	6580	CM7	MGT	D	1	59.372	-12.016	-21.848	1.00	27.27		C
ANISOU	6580	CM7	MGT	D	1	3432	3551	3377	-125	533	-779	C
ATOM	6581	C5	MGT	D	1	59.872	-13.721	-20.082	1.00	29.90		C
ANISOU	6581	C5	MGT	D	1	3792	3586	3983	-156	529	-750	C
ATOM	6582	C4	MGT	D	1	61.017	-14.436	-19.739	1.00	29.44		C
ANISOU	6582	C4	MGT	D	1	3754	3372	4059	-59	592	-730	C

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Figure 18 (continued)

ATOM	6583	N3	MGT	D	1	61.004	-15.292	-18.702	1.00	29.19	N	
ANISOU	6583	N3	MGT	D	1	3760	3183	4146	-86	553	-685	N
ATOM	6584	C2	MGT	D	1	59.915	-15.502	-17.954	1.00	28.05	C	
ANISOU	6584	C2	MGT	D	1	3637	3026	3992	-223	481	-658	C
ATOM	6585	N2	MGT	D	1	59.978	-16.375	-16.971	1.00	29.73	N	
ANISOU	6585	N2	MGT	D	1	3915	3072	4309	-246	463	-596	N
ATOM	6586	N1	MGT	D	1	58.740	-14.829	-18.230	1.00	27.16	N	
ANISOU	6586	N1	MGT	D	1	3479	3073	3767	-332	434	-687	N
ATOM	6587	C6	MGT	D	1	58.701	-13.917	-19.293	1.00	28.79	C	
ANISOU	6587	C6	MGT	D	1	3642	3444	3853	-290	443	-733	C
ATOM	6588	O6	MGT	D	1	57.638	-13.327	-19.502	1.00	27.71	O	
ANISOU	6588	O6	MGT	D	1	3458	3444	3626	-368	381	-750	O
ATOM	6589	O2G	MGT	E	1	23.200	-31.391	-24.125	1.00	70.75	O	
ANISOU	6589	O2G	MGT	E	1	9036	8796	9051	-973	-263	-1625	O
ATOM	6590	PG	MGT	E	1	23.830	-31.142	-22.645	1.00	68.95	P	
ANISOU	6590	PG	MGT	E	1	8848	8360	8991	-906	-117	-1455	P
ATOM	6591	O3G	MGT	E	1	24.816	-29.813	-22.701	1.00	67.49	O	
ANISOU	6591	O3G	MGT	E	1	8750	8226	8668	-768	-101	-1258	O
ATOM	6592	O1G	MGT	E	1	22.748	-30.981	-21.631	1.00	68.11	O	
ANISOU	6592	O1G	MGT	E	1	8612	8217	9051	-935	-125	-1397	O
ATOM	6593	O3B	MGT	E	1	24.889	-32.361	-22.338	1.00	67.54	O	
ANISOU	6593	O3B	MGT	E	1	8779	7972	8911	-938	27	-1554	O
ATOM	6594	PB	MGT	E	1	24.785	-33.870	-22.938	1.00	68.18	P	
ANISOU	6594	PB	MGT	E	1	8880	7968	9058	-1057	39	-1813	P
ATOM	6595	O2B	MGT	E	1	25.148	-33.733	-24.532	1.00	69.37	O	
ANISOU	6595	O2B	MGT	E	1	9066	8338	8953	-1050	-28	-1961	O
ATOM	6596	O1B	MGT	E	1	23.440	-34.487	-22.726	1.00	68.87	O	
ANISOU	6596	O1B	MGT	E	1	8856	8032	9278	-1201	-15	-1906	O
ATOM	6597	O3A	MGT	E	1	25.997	-34.776	-22.240	1.00	65.43	O	
ANISOU	6597	O3A	MGT	E	1	8646	7350	8863	-1017	183	-1825	O
ATOM	6598	PA	MGT	E	1	27.307	-34.306	-21.288	1.00	59.20	P	
ANISOU	6598	PA	MGT	E	1	7934	6449	8110	-875	286	-1635	P
ATOM	6599	O2A	MGT	E	1	28.136	-33.197	-22.107	1.00	58.65	O	
ANISOU	6599	O2A	MGT	E	1	7884	6588	7811	-779	280	-1588	O
ATOM	6600	O1A	MGT	E	1	28.129	-35.492	-20.942	1.00	59.66	O	
ANISOU	6600	O1A	MGT	E	1	8071	6268	8331	-854	365	-1720	O
ATOM	6601	O5*	MGT	E	1	26.816	-33.620	-19.940	1.00	53.22	O	
ANISOU	6601	O5*	MGT	E	1	7134	5651	7435	-863	299	-1411	O
ATOM	6602	C5*	MGT	E	1	26.613	-34.401	-18.761	1.00	47.71	C	
ANISOU	6602	C5*	MGT	E	1	6458	4745	6925	-918	359	-1351	C
ATOM	6603	C4*	MGT	E	1	25.456	-33.830	-17.966	1.00	43.86	C	
ANISOU	6603	C4*	MGT	E	1	5872	4324	6467	-983	346	-1240	C
ATOM	6604	O4*	MGT	E	1	25.786	-32.441	-17.660	1.00	39.94	O	
ANISOU	6604	O4*	MGT	E	1	5354	3955	5866	-865	338	-1094	O
ATOM	6605	C3*	MGT	E	1	24.198	-33.807	-18.837	1.00	44.21	C	
ANISOU	6605	C3*	MGT	E	1	5798	4523	6477	-1082	252	-1373	C
ATOM	6606	O3*	MGT	E	1	23.129	-34.318	-18.052	1.00	47.14	O	
ANISOU	6606	O3*	MGT	E	1	6089	4833	6988	-1223	283	-1368	O
ATOM	6607	C2*	MGT	E	1	23.967	-32.325	-19.118	1.00	42.11	C	
ANISOU	6607	C2*	MGT	E	1	5461	4470	6071	-979	178	-1280	C
ATOM	6608	O2*	MGT	E	1	22.556	-32.080	-19.141	1.00	44.49	O	
ANISOU	6608	O2*	MGT	E	1	5604	4894	6405	-1051	104	-1318	O
ATOM	6609	C1*	MGT	E	1	24.614	-31.665	-17.889	1.00	36.11	C	
ANISOU	6609	C1*	MGT	E	1	4744	3637	5341	-890	263	-1094	C
ATOM	6610	N9	MGT	E	1	25.074	-30.253	-17.973	1.00	33.69	N	
ANISOU	6610	N9	MGT	E	1	4442	3438	4921	-758	232	-977	N
ATOM	6611	C8	MGT	E	1	26.143	-29.848	-18.690	1.00	32.33	C	
ANISOU	6611	C8	MGT	E	1	4355	3300	4628	-678	226	-961	C
ATOM	6612	N7	MGT	E	1	26.235	-28.515	-18.497	1.00	30.39	N	
ANISOU	6612	N7	MGT	E	1	4097	3125	4326	-592	200	-834	N
ATOM	6613	CM7	MGT	E	1	27.291	-27.689	-19.147	1.00	30.36	C	
ANISOU	6613	CM7	MGT	E	1	4173	3175	4187	-519	196	-768	C
ATOM	6614	C5	MGT	E	1	25.270	-28.075	-17.684	1.00	30.41	C	
ANISOU	6614	C5	MGT	E	1	4001	3137	4414	-594	187	-790	C
ATOM	6615	C4	MGT	E	1	24.528	-29.207	-17.348	1.00	33.54	C	
ANISOU	6615	C4	MGT	E	1	4345	3484	4915	-708	216	-881	C
ATOM	6616	N3	MGT	E	1	23.454	-29.116	-16.532	1.00	32.74	N	
ANISOU	6616	N3	MGT	E	1	4124	3405	4909	-756	232	-876	N
ATOM	6617	C2	MGT	E	1	23.082	-27.949	-16.013	1.00	31.10	C	
ANISOU	6617	C2	MGT	E	1	3842	3265	4708	-674	218	-805	C
ATOM	6618	N2	MGT	E	1	22.036	-27.912	-15.215	1.00	32.01	N	

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Figure 18 (continued)

ANISOU	6618	N2	MGT	E	1	3821	3423	4917	-724	252	-831	N
ATOM	6619	N1	MGT	E	1	23.783	-26.786	-16.310	1.00	30.29		N
ANISOU	6619	N1	MGT	E	1	3801	3183	4526	-545	175	-716	N
ATOM	6620	C6	MGT	E	1	24.887	-26.830	-17.148	1.00	31.43		C
ANISOU	6620	C6	MGT	E	1	4072	3309	4562	-516	162	-696	C
ATOM	6621	O6	MGT	E	1	25.482	-25.774	-17.398	1.00	30.00		O
ANISOU	6621	O6	MGT	E	1	3944	3144	4312	-429	135	-607	O
ATOM	6622	O2G	MGT	F	1	30.350	-3.944	-65.480	1.00	99.58		O
ANISOU	6622	O2G	MGT	F	1	14031	16156	7647	-644	2	-439	O
ATOM	6623	PG	MGT	F	1	28.875	-4.380	-64.937	1.00	97.98		P
ANISOU	6623	PG	MGT	F	1	13719	15816	7693	-487	-380	-489	P
ATOM	6624	O3G	MGT	F	1	28.278	-5.473	-65.973	1.00	100.06		O
ANISOU	6624	O3G	MGT	F	1	14125	16190	7703	-469	-516	-718	O
ATOM	6625	O1G	MGT	F	1	28.966	-4.930	-63.549	1.00	93.98		O
ANISOU	6625	O1G	MGT	F	1	12887	15191	7630	-397	-325	-595	O
ATOM	6626	O3B	MGT	F	1	27.926	-3.048	-65.157	1.00	97.20		O
ANISOU	6626	O3B	MGT	F	1	13810	15616	7506	-472	-688	-195	O
ATOM	6627	PB	MGT	F	1	26.314	-3.046	-64.848	1.00	94.58		P
ANISOU	6627	PB	MGT	F	1	13385	15180	7372	-321	-1114	-191	P
ATOM	6628	O2B	MGT	F	1	25.693	-3.980	-66.039	1.00	96.13		O
ANISOU	6628	O2B	MGT	F	1	13730	15529	7265	-323	-1304	-385	O
ATOM	6629	O1B	MGT	F	1	25.707	-1.684	-64.850	1.00	95.46		O
ANISOU	6629	O1B	MGT	F	1	13630	15170	7470	-262	-1343	89	O
ATOM	6630	O3A	MGT	F	1	26.194	-3.836	-63.403	1.00	86.47		O
ANISOU	6630	O3A	MGT	F	1	11980	14048	6828	-253	-1036	-362	O
ATOM	6631	PA	MGT	F	1	25.747	-3.160	-61.969	1.00	79.76		P
ANISOU	6631	PA	MGT	F	1	10904	13006	6395	-173	-1093	-247	P
ATOM	6632	O2A	MGT	F	1	25.428	-4.445	-61.045	1.00	77.01		O
ANISOU	6632	O2A	MGT	F	1	10293	12609	6357	-138	-1050	-494	O
ATOM	6633	O1A	MGT	F	1	24.575	-2.250	-62.103	1.00	81.05		O
ANISOU	6633	O1A	MGT	F	1	11113	13096	6587	-75	-1414	-96	O
ATOM	6634	O5*	MGT	F	1	27.022	-2.434	-61.277	1.00	74.56		O
ANISOU	6634	O5*	MGT	F	1	10228	12289	5813	-247	-803	-111	O
ATOM	6635	C5*	MGT	F	1	27.118	-0.995	-61.342	1.00	70.02		C
ANISOU	6635	C5*	MGT	F	1	9816	11623	5166	-279	-837	152	C
ATOM	6636	C4*	MGT	F	1	28.554	-0.539	-61.633	1.00	66.55		C
ANISOU	6636	C4*	MGT	F	1	9491	11251	4545	-450	-529	235	C
ATOM	6637	O4*	MGT	F	1	29.365	-1.421	-60.821	1.00	62.48		O
ANISOU	6637	O4*	MGT	F	1	8711	10787	4243	-457	-310	45	O
ATOM	6638	C3*	MGT	F	1	29.017	-0.716	-63.097	1.00	67.92		C
ANISOU	6638	C3*	MGT	F	1	9926	11602	4279	-559	-437	229	C
ATOM	6639	O3*	MGT	F	1	29.464	0.547	-63.638	1.00	71.23		O
ANISOU	6639	O3*	MGT	F	1	10633	11975	4455	-700	-363	483	O
ATOM	6640	C2*	MGT	F	1	30.204	-1.684	-63.020	1.00	65.40		C
ANISOU	6640	C2*	MGT	F	1	9433	11442	3975	-628	-112	11	C
ATOM	6641	O2*	MGT	F	1	31.280	-1.234	-63.872	1.00	65.11		O
ANISOU	6641	O2*	MGT	F	1	9573	11538	3626	-817	163	74	O
ATOM	6642	C1*	MGT	F	1	30.610	-1.563	-61.542	1.00	60.72		C
ANISOU	6642	C1*	MGT	F	1	8551	10736	3784	-595	-29	0	C
ATOM	6643	N9	MGT	F	1	31.361	-2.695	-60.897	1.00	58.13		N
ANISOU	6643	N9	MGT	F	1	7951	10481	3654	-540	147	-237	N
ATOM	6644	C8	MGT	F	1	30.774	-3.809	-60.424	1.00	56.15		C
ANISOU	6644	C8	MGT	F	1	7571	10180	3582	-396	36	-414	C
ATOM	6645	N7	MGT	F	1	31.776	-4.546	-59.912	1.00	55.98		N
ANISOU	6645	N7	MGT	F	1	7360	10216	3694	-359	232	-573	N
ATOM	6646	CM7	MGT	F	1	31.556	-5.890	-59.278	1.00	54.61		C
ANISOU	6646	CM7	MGT	F	1	7057	9970	3722	-208	191	-783	C
ATOM	6647	C5	MGT	F	1	32.960	-3.927	-60.039	1.00	57.17		C
ANISOU	6647	C5	MGT	F	1	7463	10481	3778	-476	459	-522	C
ATOM	6648	C4	MGT	F	1	32.671	-2.722	-60.675	1.00	58.35		C
ANISOU	6648	C4	MGT	F	1	7834	10615	3719	-617	418	-299	C
ATOM	6649	N3	MGT	F	1	33.637	-1.831	-60.974	1.00	59.84		N
ANISOU	6649	N3	MGT	F	1	8063	10888	3784	-804	632	-191	N
ATOM	6650	C2	MGT	F	1	34.924	-2.053	-60.665	1.00	60.72		C
ANISOU	6650	C2	MGT	F	1	7940	11139	3992	-862	890	-315	C
ATOM	6651	N2	MGT	F	1	35.834	-1.129	-60.973	1.00	62.34		N
ANISOU	6651	N2	MGT	F	1	8169	11434	4084	-1091	1115	-218	N
ATOM	6652	N1	MGT	F	1	35.287	-3.254	-60.011	1.00	59.54		N
ANISOU	6652	N1	MGT	F	1	7525	11029	4067	-680	912	-549	N
ATOM	6653	C6	MGT	F	1	34.299	-4.207	-59.684	1.00	57.63		C
ANISOU	6653	C6	MGT	F	1	7300	10661	3935	-485	696	-642	C

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Figure 18 (continued)

ATOM	6654	O6	MGT	F	1	34.635	-5.252	-59.114	1.00	55.72		O
ANISOU	6654	O6	MGT	F	1	6882	10416	3874	-329	718	-828	O
ATOM	6655	OH2	WAT	Z	1	22.010	-17.664	-4.923	1.00	24.01		O
ATOM	6656	OH2	WAT	Z	2	35.587	-15.501	-13.579	1.00	25.92		O
ATOM	6657	OH2	WAT	Z	3	24.874	18.972	-29.481	1.00	17.82		O
ATOM	6658	OH2	WAT	Z	4	22.669	-1.536	-24.962	1.00	13.35		O
ATOM	6659	OH2	WAT	Z	5	52.591	-14.211	-5.902	1.00	21.48		O
ATOM	6660	OH2	WAT	Z	7	13.160	0.537	1.189	1.00	23.18		O
ATOM	6661	OH2	WAT	Z	8	25.007	17.823	-32.038	1.00	17.76		O
ATOM	6662	OH2	WAT	Z	9	57.764	0.177	-1.188	1.00	25.56		O
ATOM	6663	OH2	WAT	Z	10	22.557	-2.907	-16.078	1.00	29.94		O
ATOM	6664	OH2	WAT	Z	11	0.415	-4.929	-12.849	1.00	25.54		O
ATOM	6665	OH2	WAT	Z	12	21.159	3.266	-9.320	1.00	33.91		O
ATOM	6666	OH2	WAT	Z	13	29.894	16.381	-39.221	1.00	27.21		O
ATOM	6667	OH2	WAT	Z	14	48.790	14.910	-10.474	1.00	28.71		O
ATOM	6668	OH2	WAT	Z	15	51.978	-20.700	-11.448	1.00	26.98		O
ATOM	6669	OH2	WAT	Z	16	52.522	8.682	-31.531	1.00	27.48		O
ATOM	6670	OH2	WAT	Z	17	71.301	-1.768	-14.451	1.00	22.48		O
ATOM	6671	OH2	WAT	Z	18	27.320	-22.307	-20.123	1.00	19.55		O
ATOM	6672	OH2	WAT	Z	19	34.964	21.944	-4.871	1.00	23.06		O
ATOM	6673	OH2	WAT	Z	21	23.902	-22.328	-16.923	1.00	23.97		O
ATOM	6674	OH2	WAT	Z	22	48.357	-2.830	-15.780	1.00	34.81		O
ATOM	6675	OH2	WAT	Z	23	58.588	5.961	-27.382	1.00	19.01		O
ATOM	6676	OH2	WAT	Z	24	18.628	15.589	-17.793	1.00	30.46		O
ATOM	6677	OH2	WAT	Z	25	19.270	-18.539	-13.641	1.00	21.85		O
ATOM	6678	OH2	WAT	Z	26	43.558	13.915	-26.424	1.00	17.33		O
ATOM	6679	OH2	WAT	Z	27	26.542	-12.581	-16.266	1.00	26.41		O
ATOM	6680	OH2	WAT	Z	28	34.875	33.272	-20.697	1.00	21.41		O
ATOM	6681	OH2	WAT	Z	29	13.457	-11.350	-34.721	1.00	35.91		O
ATOM	6682	OH2	WAT	Z	30	25.564	10.236	-30.803	1.00	24.48		O
ATOM	6683	OH2	WAT	Z	31	45.958	-26.847	-21.485	1.00	27.96		O
ATOM	6684	OH2	WAT	Z	32	35.988	-22.594	2.913	1.00	21.42		O
ATOM	6685	OH2	WAT	Z	33	54.562	-14.794	-17.888	1.00	22.27		O
ATOM	6686	OH2	WAT	Z	34	22.529	2.193	-30.694	1.00	27.64		O
ATOM	6687	OH2	WAT	Z	35	25.635	-4.794	-32.881	1.00	28.73		O
ATOM	6688	OH2	WAT	Z	36	27.823	20.133	-0.039	1.00	36.81		O
ATOM	6689	OH2	WAT	Z	37	20.246	12.658	-31.810	1.00	24.61		O
ATOM	6690	OH2	WAT	Z	38	28.300	-37.005	-18.759	1.00	51.31		O
ATOM	6691	OH2	WAT	Z	39	53.886	-12.268	-21.629	1.00	17.36		O
ATOM	6692	OH2	WAT	Z	40	48.741	-7.083	-24.282	1.00	24.97		O
ATOM	6693	OH2	WAT	Z	41	56.501	-23.941	-22.749	1.00	33.42		O
ATOM	6694	OH2	WAT	Z	42	70.436	0.347	-12.882	1.00	19.32		O
ATOM	6695	OH2	WAT	Z	43	25.679	6.098	-19.237	1.00	22.39		O
ATOM	6696	OH2	WAT	Z	44	32.839	32.448	-18.714	1.00	35.80		O
ATOM	6697	OH2	WAT	Z	45	13.259	-14.963	-26.829	1.00	23.85		O
ATOM	6698	OH2	WAT	Z	46	45.572	-27.223	-24.539	1.00	26.82		O
ATOM	6699	OH2	WAT	Z	47	18.892	12.226	-9.507	1.00	24.12		O
ATOM	6700	OH2	WAT	Z	48	15.179	-6.957	4.889	1.00	33.18		O
ATOM	6701	OH2	WAT	Z	49	28.351	4.517	-12.106	1.00	29.12		O
ATOM	6702	OH2	WAT	Z	50	69.753	-7.784	-22.150	1.00	24.16		O
ATOM	6703	OH2	WAT	Z	51	51.484	-18.920	-13.213	1.00	25.28		O
ATOM	6704	OH2	WAT	Z	52	30.860	13.483	-5.891	1.00	23.31		O
ATOM	6705	OH2	WAT	Z	53	30.542	-37.628	-17.641	1.00	34.32		O
ATOM	6706	OH2	WAT	Z	54	17.077	-19.149	-12.084	1.00	24.17		O
ATOM	6707	OH2	WAT	Z	55	31.540	-38.915	-14.093	1.00	29.25		O
ATOM	6708	OH2	WAT	Z	56	32.031	10.317	-7.068	1.00	23.87		O
ATOM	6709	OH2	WAT	Z	57	63.159	-12.048	-28.694	1.00	38.66		O
ATOM	6710	OH2	WAT	Z	60	32.626	-17.204	-22.492	1.00	28.77		O
ATOM	6711	OH2	WAT	Z	61	13.024	-14.857	-24.008	1.00	21.66		O
ATOM	6712	OH2	WAT	Z	62	16.501	7.671	-21.877	1.00	22.39		O
ATOM	6713	OH2	WAT	Z	63	26.459	8.287	-33.540	1.00	44.16		O
ATOM	6714	OH2	WAT	Z	64	51.383	-16.236	-0.275	1.00	35.25		O
ATOM	6715	OH2	WAT	Z	65	55.449	4.737	-37.070	1.00	38.33		O
ATOM	6716	OH2	WAT	Z	66	18.627	-7.775	-42.508	1.00	43.11		O
ATOM	6717	OH2	WAT	Z	67	25.172	-1.387	-16.895	1.00	32.89		O
ATOM	6718	OH2	WAT	Z	68	63.541	6.400	3.498	1.00	39.85		O
ATOM	6719	OH2	WAT	Z	69	58.234	5.010	-30.073	1.00	27.73		O
ATOM	6720	OH2	WAT	Z	70	40.724	12.891	-10.774	1.00	30.83		O
ATOM	6721	OH2	WAT	Z	71	24.900	12.576	-19.843	1.00	20.19		O
ATOM	6722	OH2	WAT	Z	72	49.784	-6.304	-7.577	1.00	31.08		O
ATOM	6723	OH2	WAT	Z	73	27.087	40.698	-13.760	1.00	41.38		O

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Figure 18 (continued)

ATOM	6724	OH2	WAT	Z	74	76.962	7.731	-7.980	1.00	33.08	O
ATOM	6725	OH2	WAT	Z	75	23.651	14.328	-38.716	1.00	32.75	O
ATOM	6726	OH2	WAT	Z	76	11.075	7.898	-8.738	1.00	37.62	O
ATOM	6727	OH2	WAT	Z	77	17.338	4.404	-24.665	1.00	17.00	O
ATOM	6728	OH2	WAT	Z	78	16.077	-25.529	-23.013	1.00	30.89	O
ATOM	6729	OH2	WAT	Z	79	53.527	14.001	-17.979	1.00	27.27	O
ATOM	6730	OH2	WAT	Z	80	34.264	14.194	-45.137	1.00	32.07	O
ATOM	6731	OH2	WAT	Z	82	42.478	-8.305	-9.650	1.00	29.55	O
ATOM	6732	OH2	WAT	Z	83	15.985	-6.541	-42.463	1.00	28.85	O
ATOM	6733	OH2	WAT	Z	84	34.516	8.340	-25.756	1.00	25.94	O
ATOM	6734	OH2	WAT	Z	85	58.379	-1.510	-36.376	1.00	38.41	O
ATOM	6735	OH2	WAT	Z	86	37.811	8.922	-27.105	1.00	22.11	O
ATOM	6736	OH2	WAT	Z	87	-0.391	-3.769	-14.739	1.00	35.30	O
ATOM	6737	OH2	WAT	Z	88	43.490	14.702	-6.036	1.00	32.76	O
ATOM	6738	OH2	WAT	Z	89	66.881	0.967	-35.813	1.00	29.64	O
ATOM	6739	OH2	WAT	Z	90	50.228	23.440	-23.336	1.00	25.56	O
ATOM	6740	OH2	WAT	Z	91	18.346	-19.140	-26.919	1.00	38.45	O
ATOM	6741	OH2	WAT	Z	93	33.957	31.768	-27.497	1.00	34.70	O
ATOM	6742	OH2	WAT	Z	94	15.782	16.563	-13.960	1.00	25.91	O
ATOM	6743	OH2	WAT	Z	95	48.925	4.506	4.193	1.00	30.06	O
ATOM	6744	OH2	WAT	Z	96	55.094	8.303	2.407	1.00	32.94	O
ATOM	6745	OH2	WAT	Z	97	23.845	23.584	-12.034	1.00	27.82	O
ATOM	6746	OH2	WAT	Z	98	19.282	13.117	-18.942	1.00	28.06	O
ATOM	6747	OH2	WAT	Z	99	21.689	-13.748	-35.649	1.00	30.66	O
ATOM	6748	OH2	WAT	Z	100	30.856	27.498	-24.106	1.00	31.84	O
ATOM	6749	OH2	WAT	Z	101	46.475	15.139	-23.225	1.00	30.44	O
ATOM	6750	OH2	WAT	Z	102	75.808	3.111	-8.446	1.00	33.80	O
ATOM	6751	OH2	WAT	Z	103	22.117	-4.088	-48.032	1.00	47.28	O
ATOM	6752	OH2	WAT	Z	104	19.417	-9.956	-43.103	1.00	37.00	O
ATOM	6753	OH2	WAT	Z	105	50.959	14.958	-6.038	1.00	28.24	O
ATOM	6754	OH2	WAT	Z	106	12.824	-14.262	-55.184	1.00	53.76	O
ATOM	6755	OH2	WAT	Z	107	24.243	-15.291	-17.663	1.00	39.66	O
ATOM	6756	OH2	WAT	Z	108	42.270	21.564	-34.734	1.00	24.55	O
ATOM	6757	OH2	WAT	Z	109	16.713	-20.968	-7.090	1.00	27.98	O
ATOM	6758	OH2	WAT	Z	110	36.477	-16.419	-21.410	1.00	48.83	O
ATOM	6759	OH2	WAT	Z	111	35.351	16.445	-10.062	1.00	50.87	O
ATOM	6760	OH2	WAT	Z	112	24.841	-4.261	-4.666	1.00	30.33	O
ATOM	6761	OH2	WAT	Z	113	4.786	-8.000	-18.626	1.00	35.35	O
ATOM	6762	OH2	WAT	Z	114	10.306	-1.689	-38.133	1.00	26.41	O
ATOM	6763	OH2	WAT	Z	115	42.924	-19.244	-23.456	1.00	34.89	O
ATOM	6764	OH2	WAT	Z	116	42.206	12.907	-6.861	1.00	25.28	O
ATOM	6765	OH2	WAT	Z	117	51.605	13.100	-19.296	1.00	31.95	O
ATOM	6766	OH2	WAT	Z	118	16.469	13.514	-8.427	1.00	45.86	O
ATOM	6767	OH2	WAT	Z	119	50.036	4.161	-29.744	1.00	25.55	O
ATOM	6768	OH2	WAT	Z	120	16.233	10.887	-35.555	1.00	41.62	O
ATOM	6769	OH2	WAT	Z	121	22.532	0.490	-33.852	1.00	27.81	O
ATOM	6770	OH2	WAT	Z	123	19.367	-19.611	-56.734	1.00	31.09	O
ATOM	6771	OH2	WAT	Z	124	46.548	-25.852	-32.207	1.00	41.02	O
ATOM	6772	OH2	WAT	Z	125	27.102	-32.879	-5.267	1.00	28.86	O
ATOM	6773	OH2	WAT	Z	126	49.465	4.075	-4.211	1.00	29.62	O
ATOM	6774	OH2	WAT	Z	127	68.660	-0.401	-18.608	1.00	38.81	O
ATOM	6775	OH2	WAT	Z	128	28.488	-14.653	-2.031	1.00	33.34	O
ATOM	6776	OH2	WAT	Z	129	38.691	29.556	-29.045	1.00	27.56	O
ATOM	6777	OH2	WAT	Z	130	20.046	14.970	-5.630	1.00	35.59	O
ATOM	6778	OH2	WAT	Z	131	21.161	-5.035	-2.609	1.00	24.94	O
ATOM	6779	OH2	WAT	Z	132	39.421	-26.828	9.622	1.00	57.63	O
ATOM	6780	OH2	WAT	Z	133	30.273	-15.692	-5.914	1.00	26.45	O
ATOM	6781	OH2	WAT	Z	134	40.038	-33.801	-13.906	1.00	35.26	O
ATOM	6782	OH2	WAT	Z	135	50.389	2.298	-27.656	1.00	26.52	O
ATOM	6783	OH2	WAT	Z	136	42.086	7.582	-31.511	1.00	36.58	O
ATOM	6784	OH2	WAT	Z	137	50.049	-21.915	-25.630	1.00	29.44	O
ATOM	6785	OH2	WAT	Z	138	54.096	17.394	-14.365	1.00	26.83	O
ATOM	6786	OH2	WAT	Z	139	53.457	22.759	-18.096	1.00	29.22	O
ATOM	6787	OH2	WAT	Z	140	47.276	-14.555	-17.579	1.00	28.30	O
ATOM	6788	OH2	WAT	Z	141	29.621	27.139	-8.722	1.00	19.74	O
ATOM	6789	OH2	WAT	Z	142	21.551	-15.531	-46.177	1.00	37.12	O
ATOM	6790	OH2	WAT	Z	143	0.081	-2.053	-6.723	1.00	35.12	O
ATOM	6791	OH2	WAT	Z	145	2.708	-6.704	-12.288	1.00	29.20	O
ATOM	6792	OH2	WAT	Z	146	48.187	-3.807	-23.913	1.00	39.45	O
ATOM	6793	OH2	WAT	Z	147	35.518	-9.414	-58.946	1.00	49.19	O
ATOM	6794	OH2	WAT	Z	149	50.661	6.651	-2.459	1.00	31.55	O

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Figure 18 (continued)

ATOM	6795	OH2	WAT	Z	150	6.977	-4.292	5.382	1.00	33.62	O
ATOM	6796	OH2	WAT	Z	151	70.053	-2.697	-21.777	1.00	35.37	O
ATOM	6797	OH2	WAT	Z	152	26.405	-25.745	-56.037	1.00	54.31	O
ATOM	6798	OH2	WAT	Z	153	21.807	-11.348	-34.300	1.00	36.00	O
ATOM	6799	OH2	WAT	Z	155	61.988	12.944	-9.997	1.00	37.17	O
ATOM	6800	OH2	WAT	Z	156	48.957	-7.172	-3.666	1.00	35.39	O
ATOM	6801	OH2	WAT	Z	157	9.240	15.496	-16.665	1.00	37.22	O
ATOM	6802	OH2	WAT	Z	158	22.966	-4.323	-23.838	1.00	42.19	O
ATOM	6803	OH2	WAT	Z	159	4.714	-15.721	-5.172	1.00	39.15	O
ATOM	6804	OH2	WAT	Z	160	23.677	12.223	-38.115	1.00	37.72	O
ATOM	6805	OH2	WAT	Z	161	40.873	-28.484	-31.719	1.00	49.84	O
ATOM	6806	OH2	WAT	Z	162	20.764	-17.215	-48.256	1.00	30.64	O
ATOM	6807	OH2	WAT	Z	163	46.257	2.134	-5.934	1.00	28.45	O
ATOM	6808	OH2	WAT	Z	164	1.102	-0.339	-23.846	1.00	33.06	O
ATOM	6809	OH2	WAT	Z	165	56.153	-23.889	-11.833	1.00	51.89	O
ATOM	6810	OH2	WAT	Z	166	46.513	-37.594	-25.306	1.00	42.87	O
ATOM	6811	OH2	WAT	Z	167	31.205	-31.346	-33.201	1.00	37.47	O
ATOM	6812	OH2	WAT	Z	168	46.736	-32.410	-16.066	1.00	48.36	O
ATOM	6813	OH2	WAT	Z	169	16.920	-25.816	-15.401	1.00	43.16	O
ATOM	6814	OH2	WAT	Z	170	40.084	28.332	-35.998	1.00	31.80	O
ATOM	6815	OH2	WAT	Z	171	43.734	19.350	-33.881	1.00	29.51	O
ATOM	6816	OH2	WAT	Z	172	26.493	-8.330	-14.753	1.00	32.62	O
ATOM	6817	OH2	WAT	Z	173	33.748	4.983	-37.285	1.00	33.47	O
ATOM	6818	OH2	WAT	Z	175	56.484	-13.704	-3.695	1.00	32.87	O
ATOM	6819	OH2	WAT	Z	176	27.269	-8.161	-63.691	1.00	43.49	O
ATOM	6820	OH2	WAT	Z	177	50.087	-8.525	-2.162	1.00	26.01	O
ATOM	6821	OH2	WAT	Z	179	36.074	-14.083	-7.400	1.00	33.95	O
ATOM	6822	OH2	WAT	Z	180	21.712	-14.738	-31.372	1.00	41.69	O
ATOM	6823	OH2	WAT	Z	181	66.636	-9.970	-8.729	1.00	30.38	O
ATOM	6824	OH2	WAT	Z	182	65.403	-12.027	-5.047	1.00	39.48	O
ATOM	6825	OH2	WAT	Z	183	25.708	11.169	-43.671	1.00	35.61	O
ATOM	6826	OH2	WAT	Z	184	51.471	-10.298	-38.366	1.00	45.24	O
ATOM	6827	OH2	WAT	Z	185	13.816	14.588	-29.069	1.00	30.39	O
ATOM	6828	OH2	WAT	Z	186	25.401	24.637	0.808	1.00	42.63	O
ATOM	6829	OH2	WAT	Z	187	24.141	3.660	-9.953	1.00	41.40	O
ATOM	6830	OH2	WAT	Z	188	50.530	-7.054	-30.104	1.00	37.25	O
ATOM	6831	OH2	WAT	Z	189	17.307	-28.578	-8.340	1.00	37.35	O
ATOM	6832	OH2	WAT	Z	190	23.215	-2.485	-9.503	1.00	34.35	O
ATOM	6833	OH2	WAT	Z	191	25.409	-36.972	-21.377	1.00	28.84	O
ATOM	6834	OH2	WAT	Z	192	32.293	9.056	-52.850	1.00	53.81	O
ATOM	6835	OH2	WAT	Z	194	9.854	-20.178	-8.716	1.00	47.33	O
ATOM	6836	OH2	WAT	Z	195	45.448	7.502	-21.691	1.00	37.17	O
ATOM	6837	OH2	WAT	Z	196	41.211	-41.959	-28.245	1.00	48.32	O
ATOM	6838	OH2	WAT	Z	197	35.027	-38.234	-17.129	1.00	46.15	O
ATOM	6839	OH2	WAT	Z	198	30.945	3.849	-33.630	1.00	38.01	O
ATOM	6840	OH2	WAT	Z	199	10.582	3.216	-30.915	1.00	30.78	O
ATOM	6841	OH2	WAT	Z	200	38.611	-12.140	-47.412	1.00	34.67	O
ATOM	6842	OH2	WAT	Z	201	17.623	19.014	-29.499	1.00	56.25	O
ATOM	6843	OH2	WAT	Z	202	48.293	17.619	-42.569	1.00	39.31	O
ATOM	6844	OH2	WAT	Z	203	28.384	15.063	-3.883	1.00	41.61	O
ATOM	6845	OH2	WAT	Z	204	35.579	3.773	-42.257	1.00	44.44	O
ATOM	6846	OH2	WAT	Z	205	20.437	-13.266	-15.586	1.00	23.67	O
ATOM	6847	OH2	WAT	Z	206	38.154	5.184	-40.233	1.00	49.51	O
ATOM	6848	OH2	WAT	Z	207	45.198	22.725	-11.680	1.00	41.39	O
ATOM	6849	OH2	WAT	Z	208	36.171	-18.123	-57.255	1.00	45.32	O
ATOM	6850	OH2	WAT	Z	209	20.057	7.547	-4.988	1.00	40.68	O
ATOM	6851	OH2	WAT	Z	210	40.148	3.860	-50.600	1.00	35.38	O
ATOM	6852	OH2	WAT	Z	211	45.636	-6.474	-29.807	1.00	52.09	O
ATOM	6853	OH2	WAT	Z	212	45.277	22.770	-9.176	1.00	24.03	O
ATOM	6854	OH2	WAT	Z	213	33.172	4.773	-32.693	1.00	35.71	O
ATOM	6855	OH2	WAT	Z	214	33.650	-19.496	-30.848	1.00	39.27	O
ATOM	6856	OH2	WAT	Z	215	46.592	-5.388	-49.721	1.00	39.74	O
ATOM	6857	OH2	WAT	Z	216	35.963	-38.228	-8.201	1.00	32.99	O
ATOM	6858	OH2	WAT	Z	217	42.449	-15.437	1.419	1.00	33.54	O
ATOM	6859	OH2	WAT	Z	218	17.500	-25.027	-8.417	1.00	31.46	O
ATOM	6860	OH2	WAT	Z	219	24.656	-8.332	-63.244	1.00	41.72	O
ATOM	6861	OH2	WAT	Z	220	30.837	2.476	-36.522	1.00	34.45	O
ATOM	6862	OH2	WAT	Z	221	54.803	-22.398	-30.205	1.00	48.05	O
ATOM	6863	OH2	WAT	Z	222	46.624	-6.685	-7.840	1.00	45.14	O
ATOM	6864	OH2	WAT	Z	223	69.977	0.204	-6.062	1.00	29.12	O
ATOM	6865	OH2	WAT	Z	224	27.484	9.235	-45.269	1.00	41.47	O

ATOM	6866	OH2	WAT	Z	225	39.053	12.272	-7.273	1.00	35.61	
ATOM	6867	OH2	WAT	Z	226	33.654	-11.620	-71.645	1.00	32.99	
ATOM	6868	OH2	WAT	Z	227	37.763	-36.609	-6.731	1.00	39.13	
ATOM	6869	OH2	WAT	Z	228	43.789	-6.817	-64.285	1.00	35.87	
ATOM	6870	OH2	WAT	Z	229	15.841	7.668	-39.846	1.00	42.57	
ATOM	6871	OH2	WAT	Z	230	49.470	-7.674	-32.876	1.00	39.94	
ATOM	6872	OH2	WAT	Z	231	73.132	-6.437	-11.485	1.00	43.64	
ATOM	6873	OH2	WAT	Z	232	69.189	-10.890	-8.124	1.00	43.10	
ATOM	6874	OH2	WAT	Z	233	68.220	1.931	-4.425	1.00	35.19	
ATOM	6875	OH2	WAT	Z	234	-0.117	0.428	-21.467	1.00	53.29	
ATOM	6876	OH2	WAT	Z	235	22.121	-3.444	6.017	1.00	34.04	
ATOM	6877	OH2	WAT	Z	236	12.296	14.675	-22.643	1.00	46.28	
ATOM	6878	OH2	WAT	Z	237	14.515	13.822	-6.990	1.00	44.07	
ATOM	6879	OH2	WAT	Z	238	8.264	1.618	-31.428	1.00	31.10	
ATOM	6880	OH2	WAT	Z	239	18.004	15.205	-9.508	1.00	43.87	
ATOM	6881	OH2	WAT	Z	240	26.138	-4.555	-6.867	1.00	38.79	
ATOM	6882	OH2	WAT	Z	241	44.614	6.587	-19.546	1.00	22.31	
ATOM	6883	OH2	WAT	Z	242	42.232	28.400	-29.247	1.00	39.83	
ATOM	6884	OH2	WAT	Z	243	35.090	10.219	-18.144	1.00	42.61	
ATOM	6885	OH2	WAT	Z	244	42.707	7.488	-22.667	1.00	26.48	
ATOM	6886	OH2	WAT	Z	245	5.481	-13.489	-33.682	1.00	42.88	
ATOM	6887	OH2	WAT	Z	246	24.380	4.187	-32.955	1.00	35.24	
ATOM	6888	OH2	WAT	Z	247	57.349	26.834	-15.600	1.00	57.46	
ATOM	6889	OH2	WAT	Z	248	36.055	-30.582	3.645	1.00	49.07	
ATOM	6890	OH2	WAT	Z	249	34.660	-36.210	-0.590	1.00	38.86	
ATOM	6891	OH2	WAT	Z	250	44.202	2.988	-16.631	1.00	34.41	
ATOM	6892	OH2	WAT	Z	251	28.312	-18.014	-27.408	1.00	47.07	
ATOM	6893	OH2	WAT	Z	252	43.871	7.890	-38.332	1.00	39.41	
ATOM	6894	OH2	WAT	Z	254	35.217	-18.557	-4.263	1.00	39.96	
ATOM	6895	OH2	WAT	Z	256	10.973	15.666	-13.469	1.00	51.73	
ATOM	6896	OH2	WAT	Z	257	63.806	8.757	-23.338	1.00	49.41	
ATOM	6897	OH2	WAT	Z	258	30.195	19.858	-45.928	1.00	40.05	
ATOM	6898	OH2	WAT	Z	259	45.473	-17.828	-14.547	1.00	34.13	
ATOM	6899	OH2	WAT	Z	261	32.026	-1.032	-32.780	1.00	55.96	
ATOM	6900	OH2	WAT	Z	263	11.334	-21.951	-13.454	1.00	54.94	
ATOM	6901	OH2	WAT	Z	264	34.852	11.262	-11.695	1.00	56.14	
ATOM	6902	OH2	WAT	Z	265	50.631	-23.856	-26.444	1.00	33.63	
ATOM	6903	OH2	WAT	Z	266	28.803	-8.481	0.380	1.00	46.99	
ATOM	6904	OH2	WAT	Z	268	60.910	-11.529	-36.250	1.00	42.92	
ATOM	6905	OH2	WAT	Z	269	29.242	24.796	-47.351	1.00	47.76	
ATOM	6906	OH2	WAT	Z	270						