AM-83-280

American Mineralogist, Volume 68, pages 924–943, 1983

High temperature crystal chemistry of K and Na fluor-richterites

MARYELLEN CAMERON,[1] SHIGEHO SUENO,[2] J. J. PAPIKE,[3] AND C. T. PREWITT

Department of Earth and Space Sciences
State University of New York
Stony Brook, New York 11794

Abstract

Crystal structure parameters have been determined for synthetic potassium richterite $K(NaCa)Mg_5Si_8O_{22}F_2$ at 24°, 400°, 600°, and 800°C, and synthetic sodium richterite $Na(NaCa)Mg_5Si_8O_{22}F_2$ at 24°, 400°, 600°, 800°, and 900°C. Anisotropic refinements in space group *I2/m* using 1150–1200 reflections resulted in *R* factors ranging from 0.034 to 0.063. The K atom in the A site of potassium richterite was refined at all temperatures using a half atom model with K randomly occupying two special positions (4*i*) within the (010) mirror plane. The Na atom in the A site of sodium richterite was refined using a quarter atom model in which Na randomly occupies four general positions (8*j*) off both the (010) mirror plane and the twofold axis parallel to *b*.

As observed in other high-temperature studies of silicate minerals, the polyhedra in these structures expand differentially. Over the temperature intervals studied, the tetrahedral distances remain statistically identical, but all other mean polyhedral distances increase significantly. Mean thermal expansion coefficients (MTEC) for mean bond lengths increase as follows: $T1 = T2 \ll M3 < M1 < M2 \ll {}^{VIII}M4 < {}^{X}A$ (K richterite) and $T1 = T2 \ll M1 < M2 < M3 \ll {}^{VIII}M4 < {}^{X}A$ (Na richterite). This differential polyhedral expansion is accompanied by straightening of the tetrahedral chains and by increased displacement of the double chains relative to each other. Expansion of three of the four M polyhedra in K richterite is slightly greater than for Na richterite, and the MTEC of its unit cell volume is larger (3.39 *vs.* 3.10/°C $\times 10^{-5}$).

The behavior of the richterite structures at elevated temperatures is generally similar to that of tremolite. The MTEC's for structural and thermal parameters are often identical within three standard deviations. The largest difference among the three structures involves the coordination polyhedron about the A site, where the rate of expansion of the mean 10-coordinated A–O distance is significantly greater in the richterites than in tremolite.

Introduction

Phenomena such as exsolution, solid solution, and inter- and intracrystalline equilibria are of interest to geologists because they provide information on the crystallization and cooling histories of rocks. These phenomena typically occur at elevated temperatures and/or pressures in geologic environments, and until recently they were necessarily described on an atomic level in terms of room-temperature crystal structures. Within the last ten years, however, the structures of various rock-forming silicate minerals have been examined at temperatures up to 1050°C. Scores of refinements, on a limited number of crystals, have been published for olivines (*e.g.*, Brown and Prewitt, 1973; Hazen, 1976; Smyth and Hazen 1973; Lager and Meagher, 1978), feldspars (*e.g.*, Prewitt *et al.*, 1976; Winter *et al.*, 1979), pyroxenes (*e.g.*, Cameron *et al.*, 1973a; Sueno *et al.*, 1976), and amphiboles (*e.g.*, Sueno *et al.*, 1973). The crystals used in many of these high temperature studies have approximately end-member compositions, and thus the effects of increasing temperature on individual cations could be evaluated.

In this paper we describe the structural changes that occur in two synthetic fluor-richterites ($KNaCaMg_5Si_8O_{22}F_2$ and $NaNaCaMg_5Si_8O_{22}F_2$) at a series of temperatures between 24° and 900°C. Our primary intention is to compare the behavior of an amphibole with a filled A site (richterite) to one with a vacant A site (tremolite; Sueno *et al.*, 1973). Richterites were selected for study

[1] Present address: School of Geology and Geophysics, University of Oklahoma, Norman, Oklahoma 73019.

[2] Present address: Institute of Geoscience, The University of Tsukuba, Ibaraki, 300-31, Japan.

[3] Present address: Institute for the Study of Mineral Deposits, South Dakota School of Mines and Technology, Rapid City, South Dakota 57701

0003–004X/83/0910–0924$02.00

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
4	0	0	24.021	37.708	37.708	0.0	-13.688	-14.928	*
6	0	0	101.846	100.335	100.335	0.0	1.511	0.914	
8	0	0	114.356	118.029	118.029	0.0	-3.673	-1.985	
10	0	0	66.937	65.760	65.760	0.0	1.176	0.835	
12	0	0	4.224	4.660	-4.660	0.0	-0.436	-0.074	
-13	0	0	34.091	39.999	-39.999	0.0	-5.908	-2.541	*
-11	1	0	60.518	61.961	61.961	0.0	-1.442	-0.958	*
-9	1	0	22.645	23.826	23.826	0.0	-1.181	-0.743	*
-7	1	0	73.421	74.557	74.557	0.0	-1.136	-0.846	*
-5	1	0	121.855	118.895	-118.895	0.0	2.960	1.558	*
3	1	0	140.079	138.935	138.935	0.0	1.144	0.537	
5	1	0	121.462	118.895	-118.895	0.0	2.567	1.363	
7	1	0	73.372	74.557	74.557	0.0	-1.185	-0.897	
9	1	0	25.314	23.826	23.826	0.0	1.488	1.163	
11	1	0	62.434	61.961	61.961	0.0	0.473	0.331	
13	1	0	33.190	34.333	-34.333	0.0	-1.143	-0.614	
-12	2	0	15.637	15.166	15.166	0.0	0.471	0.144	*
-8	2	0	14.458	12.754	-12.754	0.0	1.704	0.813	*
0	12	0	216.398	218.344	218.344	0.0	-1.945	-0.593	*
-6	2	0	32.666	33.811	-33.811	0.0	-1.145	-1.069	*
4	2	0	7.123	1.313	1.313	0.0	5.809	3.488	
6	2	0	33.288	33.811	-33.811	0.0	-0.523	-0.502	
8	2	0	13.165	12.754	-12.754	0.0	0.411	0.189	
12	2	0	15.670	15.166	15.166	0.0	0.504	0.224	
-13	3	0	13.705	19.569	19.569	0.0	-5.863	-1.210	*
-11	3	0	25.380	21.490	-21.490	0.0	3.889	2.117	*
-9	3	0	17.913	18.559	18.559	0.0	-0.646	-0.329	*
-7	3	0	56.376	56.435	-56.435	0.0	-0.059	-0.051	*
-5	3	0	57.718	57.487	57.487	0.0	0.231	0.216	*
-3	3	0	87.977	91.457	-91.457	0.0	-3.480	-2.507	*
3	3	0	89.418	91.457	-91.457	0.0	-2.039	-1.452	
5	3	0	59.143	57.487	57.487	0.0	1.656	1.536	
7	3	0	56.687	56.435	-56.435	0.0	0.252	0.214	
9	3	0	19.108	18.559	18.559	0.0	0.549	0.358	
11	3	0	19.158	21.490	-21.490	0.0	-2.333	-0.991	
13	3	0	22.367	19.569	19.569	0.0	2.798	1.275	
-12	4	0	11.871	13.243	13.243	0.0	-1.371	-0.309	*
0	12	0	214.106	218.344	218.344	0.0	-4.238	-1.304	*
-10	4	0	5.600	2.355	2.355	0.0	3.245	0.689	*
-8	4	0	6.533	8.738	8.738	0.0	-2.204	-0.549	*
-6	4	0	17.176	17.761	17.761	0.0	-0.584	-0.407	*
-4	4	0	14.884	11.522	11.522	0.0	3.362	3.014	*
-2	4	0	137.836	142.611	142.611	0.0	-4.775	-2.284	*
2	4	0	140.309	142.611	142.611	0.0	-2.302	-1.082	
4	4	0	13.345	11.522	11.522	0.0	1.822	1.397	
6	4	0	18.159	17.761	17.761	0.0	0.398	0.261	
8	4	0	14.213	8.738	8.738	0.0	5.475	3.262	
10	4	0	2.276	2.355	2.355	0.0	-0.079	-0.013	
12	4	0	13.394	13.243	13.243	0.0	0.151	0.048	
-13	5	0	22.465	22.596	22.596	0.0	-0.131	-0.044	*
-11	5	0	17.864	20.159	-20.159	0.0	-2.295	-0.741	*
-7	5	0	10.741	7.730	-7.730	0.0	3.011	1.248	*
-5	5	0	18.699	19.140	-19.140	0.0	-0.441	-0.350	*

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
-3	5	0	81.641	82.676	-82.676	0.0	-1.035	-0.788	*
-1	5	0	12.673	16.855	-16.855	0.0	-4.182	-3.202	*
1	5	0	12.919	16.855	-16.855	0.0	-3.936	-3.154	
3	5	0	83.507	82.676	-82.676	0.0	0.831	0.623	
0	12	0	214.941	218.344	218.344	0.0	-3.403	-1.044	*
5	5	0	18.977	19.140	-19.140	0.0	-0.162	-0.145	
9	5	0	7.286	5.378	-5.378	0.0	1.908	0.564	
11	5	0	20.975	20.159	-20.159	0.0	0.816	0.388	
13	5	0	26.509	22.596	22.596	0.0	3.913	2.470	
-10	6	0	23.349	28.098	28.098	0.0	-4.748	-2.577	*
-8	6	0	27.001	27.654	-27.654	0.0	-0.653	-0.496	*
-6	6	0	17.831	14.217	14.217	0.0	3.615	2.488	*
-4	6	0	4.617	3.526	3.526	0.0	1.091	0.332	*
-2	6	0	19.354	21.941	21.941	0.0	-2.587	-2.778	*
0	6	0	10.021	16.022	16.022	0.0	-6.001	-3.685	
4	6	0	3.471	3.526	3.526	0.0	-0.055	-0.016	
6	6	0	13.574	14.217	14.217	0.0	-0.643	-0.289	
8	6	0	26.542	27.654	-27.654	0.0	-1.112	-0.975	
10	6	0	23.775	28.098	28.098	0.0	-4.323	-2.233	
-11	7	0	18.306	14.952	-14.952	0.0	3.354	1.566	*
-9	7	0	50.399	52.499	52.499	0.0	-2.100	-1.512	*
0	12	0	215.694	218.344	218.344	0.0	-2.649	-0.810	*
-7	7	0	37.938	36.858	-36.858	0.0	1.080	0.954	*
-5	7	0	8.776	8.945	8.945	0.0	-0.168	-0.065	*
-3	7	0	57.604	56.459	56.459	0.0	1.145	1.082	*
-1	7	0	15.588	17.932	-17.932	0.0	-2.343	-1.996	*
3	7	0	58.144	56.459	56.459	0.0	1.685	1.583	
5	7	0	8.138	8.945	8.945	0.0	-0.807	-0.295	
7	7	0	34.958	36.858	-36.858	0.0	-1.900	-1.459	
9	7	0	52.298	52.499	52.499	0.0	-0.201	-0.154	
11	7	0	14.933	14.952	-14.952	0.0	-0.019	-0.007	
-12	8	0	38.020	37.040	37.040	0.0	0.980	0.550	*
-10	8	0	49.990	50.128	-50.128	0.0	-0.138	-0.093	*
-8	8	0	12.804	10.364	-10.364	0.0	2.440	1.067	*
-6	8	0	73.699	74.118	74.118	0.0	-0.418	-0.315	*
-4	8	0	102.419	103.576	-103.576	0.0	-1.156	-0.703	*
-2	8	0	31.815	35.823	35.823	0.0	-4.009	-4.481	*
0	8	0	47.812	45.296	45.296	0.0	2.516	2.694	
2	8	0	32.420	35.823	35.823	0.0	-3.403	-3.914	
4	8	0	105.154	103.576	-103.576	0.0	1.578	0.937	
6	8	0	74.469	74.118	74.118	0.0	0.351	0.260	
0	12	0	214.106	218.344	218.344	0.0	-4.238	-1.304	*
8	8	0	8.269	10.364	-10.364	0.0	-2.096	-0.703	
10	8	0	50.153	50.128	-50.128	0.0	0.026	0.018	
12	8	0	36.154	37.040	37.040	0.0	-0.886	-0.502	
-11	9	0	19.714	16.980	-16.980	0.0	2.734	1.023	*
-9	9	0	34.058	33.577	33.577	0.0	0.480	0.330	*
-7	9	0	96.623	97.122	-97.122	0.0	-0.499	-0.302	*
-5	9	0	8.089	6.959	6.959	0.0	1.130	0.386	*
-3	9	0	7.024	8.796	-8.796	0.0	-1.771	-0.686	*
-1	9	0	83.491	82.829	-82.829	0.0	0.662	0.484	*
1	9	0	84.424	82.829	-82.829	0.0	1.595	1.156	
7	9	0	98.539	97.122	-97.122	0.0	1.417	0.857	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
9	9	0	34.811	33.577	33.577	0.0	1.234	0.947	
11	9	0	14.589	16.980	-16.980	0.0	-2.391	-0.818	
-12	10	0	23.186	23.928	23.928	0.0	-0.742	-0.245	*
-10	10	0	28.687	29.251	29.251	0.0	-0.564	-0.296	*
-8	10	0	30.849	29.640	29.640	0.0	1.209	0.890	*
-6	10	0	17.684	17.152	17.152	0.0	0.532	0.314	*
-4	10	0	66.970	66.873	66.873	0.0	0.097	0.079	*
0	12	0	213.364	218.344	218.344	0.0	-5.040	-1.557	*
-2	10	0	45.061	48.231	48.231	0.0	-3.170	-3.130	*
0	10	0	105.039	106.257	106.257	0.0	-1.218	-0.731	
2	10	0	46.306	48.231	48.231	0.0	-1.925	-1.921	
4	10	0	66.888	66.873	66.873	0.0	0.015	0.012	
6	10	0	17.618	17.152	17.152	0.0	0.466	0.264	
8	10	0	30.668	29.640	29.640	0.0	1.029	0.755	
10	10	0	28.998	29.251	29.251	0.0	-0.253	-0.164	
12	10	0	27.819	23.928	23.928	0.0	3.892	2.437	
-11	11	0	66.937	67.488	67.488	0.0	-0.551	-0.323	*
-9	11	0	11.183	5.876	5.876	0.0	5.307	1.902	*
-7	11	0	136.755	137.991	137.991	0.0	-1.235	-0.563	*
-5	11	0	41.704	42.967	-42.967	0.0	-1.263	-1.062	*
-3	11	0	80.658	83.120	83.120	0.0	-2.462	-1.759	*
-1	11	0	124.278	122.962	122.962	0.0	1.316	0.676	*
1	11	0	126.243	122.962	122.962	0.0	3.281	1.664	
3	11	0	81.379	83.120	83.120	0.0	-1.742	-1.240	
5	11	0	39.887	42.967	-42.967	0.0	-3.081	-2.589	
7	11	0	137.181	137.991	137.991	0.0	-0.810	-0.368	
11	11	0	69.950	67.488	67.488	0.0	2.461	1.551	
0	12	0	215.924	218.344	218.344	0.0	-2.420	-0.739	*
-10	12	0	56.965	57.775	57.775	0.0	-0.810	-0.523	*
-8	12	0	53.232	55.295	55.295	0.0	-2.064	-1.484	*
-6	12	0	33.665	34.085	-34.085	0.0	-0.420	-0.313	*
-4	12	0	59.847	59.575	59.575	0.0	0.272	0.222	*
-2	12	0	40.902	39.801	-39.801	0.0	1.101	1.016	*
0	12	0	214.712	218.344	218.344	0.0	-3.632	-1.115	*
2	12	0	40.869	39.801	-39.801	0.0	1.068	1.005	
4	12	0	60.109	59.575	59.575	0.0	0.534	0.446	
6	12	0	34.713	34.085	-34.085	0.0	0.628	0.504	
8	12	0	54.607	55.295	55.295	0.0	-0.688	-0.521	
10	12	0	59.241	57.775	57.775	0.0	1.466	0.987	
-11	13	0	17.799	23.247	23.247	0.0	-5.449	-1.484	*
-9	13	0	24.528	27.413	-27.413	0.0	-2.885	-1.322	*
-7	13	0	38.905	39.823	39.823	0.0	-0.919	-0.697	*
-5	13	0	69.557	67.942	-67.942	0.0	1.615	1.225	*
-3	13	0	21.303	20.648	-20.648	0.0	0.655	0.454	*
-1	13	0	8.121	6.228	6.228	0.0	1.893	0.649	*
1	13	0	6.222	6.228	6.228	0.0	-0.006	-0.002	
3	13	0	18.863	20.648	-20.648	0.0	-1.785	-1.099	
5	13	0	70.031	67.942	-67.942	0.0	2.089	1.589	
0	12	0	214.565	218.344	218.344	0.0	-3.779	-1.161	*
7	13	0	40.919	39.823	39.823	0.0	1.095	0.939	
9	13	0	24.102	27.413	-27.413	0.0	-3.310	-1.687	
11	13	0	21.565	23.247	23.247	0.0	-1.683	-0.710	
-10	14	0	9.988	0.730	-0.730	0.0	9.258	2.022	*

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
-6	14	0	4.503	1.201	-1.201	0.0	3.302	0.660	*
-4	14	0	15.080	12.766	12.766	0.0	2.314	1.395	*
-2	14	0	36.563	36.154	36.154	0.0	0.409	0.361	*
0	14	0	6.582	7.704	-7.704	0.0	-1.122	-0.303	
2	14	0	37.087	36.154	36.154	0.0	0.933	0.853	
4	14	0	11.658	12.766	12.766	0.0	-1.108	-0.518	
-9	15	0	37.349	36.150	36.150	0.0	1.199	0.636	*
-7	15	0	53.297	53.867	-53.867	0.0	-0.570	-0.378	*
-5	15	0	31.896	32.019	32.019	0.0	-0.123	-0.090	*
-3	15	0	8.589	1.048	-1.048	0.0	7.942	3.032	*
-1	15	0	10.414	13.487	-13.487	0.0	-3.073	-1.203	*
1	15	0	16.783	13.487	-13.487	0.0	3.296	2.868	
0	12	0	214.450	218.344	218.344	0.0	-3.894	-1.197	*
3	15	0	10.332	1.048	-1.048	0.0	9.284	4.190	
5	15	0	32.944	32.019	32.019	0.0	0.925	0.765	
7	15	0	57.391	53.867	-53.867	0.0	3.524	2.710	
9	15	0	38.184	36.150	36.150	0.0	2.034	1.309	
-10	16	0	28.736	27.569	-27.569	0.0	1.167	0.508	*
-8	16	0	11.871	11.713	-11.713	0.0	0.158	0.044	*
-6	16	0	32.437	35.641	35.641	0.0	-3.204	-2.130	*
-4	16	0	52.298	53.231	-53.231	0.0	-0.933	-0.741	*
-2	16	0	8.776	4.698	4.698	0.0	4.079	1.441	*
0	16	0	9.481	6.940	6.940	0.0	2.540	1.162	
4	16	0	50.743	53.231	-53.231	0.0	-2.488	-1.871	
6	16	0	36.629	35.641	35.641	0.0	0.988	0.813	
8	16	0	12.608	11.713	-11.713	0.0	0.895	0.323	
10	16	0	30.881	27.569	-27.569	0.0	3.312	2.173	
-9	17	0	8.138	16.451	16.451	0.0	-8.313	-1.288	*
-7	17	0	15.948	12.235	-12.235	0.0	3.714	1.343	*
-5	17	0	8.531	8.345	-8.345	0.0	0.186	0.058	*
-3	17	0	27.066	26.309	26.309	0.0	0.757	0.604	*
-1	17	0	17.471	17.459	-17.459	0.0	0.012	0.007	*
0	12	0	214.843	218.344	218.344	0.0	-3.501	-1.074	*
1	17	0	12.690	17.459	-17.459	0.0	-4.769	-1.759	
3	17	0	22.416	26.309	26.309	0.0	-3.893	-2.024	
5	17	0	7.630	8.345	-8.345	0.0	-0.715	-0.199	
7	17	0	13.361	12.235	-12.235	0.0	1.127	0.396	
9	17	0	15.441	16.451	16.451	0.0	-1.010	-0.312	
-8	18	0	5.796	10.243	-10.243	0.0	-4.447	-0.674	*
-6	18	0	24.725	25.296	25.296	0.0	-0.572	-0.252	*
-2	18	0	25.691	24.923	24.923	0.0	0.767	0.511	*
0	18	0	19.796	19.695	19.695	0.0	0.101	0.058	
2	18	0	25.298	24.923	24.923	0.0	0.374	0.236	
4	18	0	10.856	8.804	8.804	0.0	2.052	0.777	
6	18	0	26.853	25.296	25.296	0.0	1.557	0.917	
8	18	0	16.669	10.243	-10.243	0.0	6.425	3.118	
-7	19	0	31.422	26.123	-26.123	0.0	5.299	2.888	*
-5	19	0	2.325	3.390	3.390	0.0	-1.065	-0.135	*
-3	19	0	32.813	32.033	-32.033	0.0	0.781	0.524	*
-1	19	0	7.434	6.689	-6.689	0.0	0.745	0.196	*
1	19	0	7.286	6.689	-6.689	0.0	0.597	0.151	
3	19	0	31.946	32.033	-32.033	0.0	-0.087	-0.064	
0	12	0	214.892	218.344	218.344	0.0	-3.452	-1.059	*

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
5	19	0	8.007	3.390	3.390	0.0	4.617	1.223	
7	19	0	25.969	26.123	-26.123	0.0	-0.154	-0.076	
-6	20	0	13.312	1.843	1.843	0.0	11.469	3.902	*
-4	20	0	34.025	34.091	-34.091	0.0	-0.066	-0.039	*
-2	20	0	30.718	31.473	31.473	0.0	-0.756	-0.494	*
0	20	0	56.441	56.842	-56.842	0.0	-0.401	-0.292	
2	20	0	32.269	31.473	31.473	0.0	0.816	0.583	
4	20	0	36.596	34.091	-34.091	0.0	2.505	1.746	
6	20	0	11.937	1.843	1.843	0.0	10.094	3.573	*
-5	21	0	38.708	39.257	39.257	0.0	-0.549	-0.354	*
-1	21	0	21.941	25.643	25.643	0.0	-3.702	-1.549	*
1	21	0	24.594	25.643	25.643	0.0	-1.049	-0.548	
3	21	0	6.910	5.512	5.512	0.0	1.397	0.299	
5	21	0	41.672	39.257	39.257	0.0	2.415	1.689	
-6	22	0	8.907	11.441	11.441	0.0	-2.533	-0.458	*
-4	22	0	50.022	48.089	48.089	0.0	1.934	1.223	*
-2	22	0	22.989	19.964	19.964	0.0	3.025	1.553	*
0	12	0	215.236	218.344	218.344	0.0	-3.108	-0.952	*
0	22	0	67.788	67.471	67.471	0.0	0.317	0.208	
2	22	0	19.845	19.964	19.964	0.0	-0.118	-0.050	
4	22	0	50.153	48.089	48.089	0.0	2.065	1.264	
6	22	0	15.113	11.441	11.441	0.0	3.672	1.279	
-5	23	0	49.269	49.553	-49.553	0.0	-0.283	-0.143	*
-3	23	0	32.633	36.393	36.393	0.0	-3.760	-1.765	*
-1	23	0	15.375	9.223	9.223	0.0	6.153	2.238	*
1	23	0	10.185	9.223	9.223	0.0	0.962	0.232	
3	23	0	37.644	36.393	36.393	0.0	1.251	0.843	
5	23	0	50.939	49.553	-49.553	0.0	1.387	0.777	
-2	24	0	39.592	43.812	-43.812	0.0	-4.220	-2.054	*
0	24	0	92.087	90.611	90.611	0.0	1.476	0.821	
2	24	0	42.310	43.812	-43.812	0.0	-1.502	-0.854	
-13	0	1	21.090	17.216	-17.216	0.0	3.873	1.552	
-9	0	1	9.693	12.961	-12.961	0.0	-3.268	-1.198	
-7	0	1	4.585	4.805	-4.805	0.0	-0.220	-0.055	
-3	0	1	12.821	11.234	-11.234	0.0	1.587	1.208	
3	0	1	27.918	26.359	-26.359	0.0	1.559	1.898	
0	12	0	215.154	218.344	218.344	0.0	-3.190	-0.977	*
7	0	1	7.679	2.723	2.723	0.0	4.956	1.752	
11	0	1	11.314	6.190	-6.190	0.0	5.125	2.074	
-12	1	1	4.274	6.096	6.096	0.0	-1.823	-0.294	
-10	1	1	6.157	8.776	-8.776	0.0	-2.619	-0.640	
-8	1	1	4.012	8.284	8.284	0.0	-4.273	-0.885	
-4	1	1	20.369	19.642	19.642	0.0	0.728	0.830	
2	1	1	64.841	67.452	-67.452	0.0	-2.611	-2.417	
4	1	1	9.448	10.562	10.562	0.0	-1.114	-0.581	
6	1	1	12.264	11.854	-11.854	0.0	0.410	0.190	
8	1	1	14.593	16.008	16.008	0.0	-1.615	-0.809	
10	1	1	10.790	11.507	-11.507	0.0	-0.717	-0.236	
12	1	1	8.861	8.865	8.865	0.0	-2.004	-0.419	
-13	2	1	18.486	21.660	-21.660	0.0	-3.174	-0.953	
-11	2	1	27.476	26.774	26.774	0.0	0.702	0.407	
-9	2	1	24.807	25.304	-25.304	0.0	-0.497	-0.388	
-7	2	1	55.737	54.385	54.385	0.0	1.352	1.209	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
-5	2	1	44.570	44.089	-44.089	0.0	0.481	0.542	
0	12	0	214.712	218.344	218.344	0.0	-3.632	-1.115	*
-5	2	1	137.263	140.860	140.860	0.0	-3.597	-1.723	
3	2	1	115.617	116.6 1	116.681	0.0	-1.064	-0.595	
5	2	1	24.037	23.518	-23.518	0.0	0.519	0.437	
7	2	1	47.173	45.969	45.969	0.0	1.204	1.058	
9	2	1	19.682	20.189	-20.189	0.0	-0.508	-0.288	
11	2	1	35.401	37.938	37.938	0.0	-2.538	-1.450	
-12	3	1	44.439	42.898	-42.898	0.0	1.541	1.025	
-8	3	1	26.755	27.740	-27.740	0.0	-0.985	-0.654	
-6	3	1	12.641	10.549	-10.549	0.0	2.091	1.304	
-4	3	1	26.309	28.120	-28.120	0.0	1.189	1.456	
-2	3	1	150.149	153.981	-153.981	0.0	-3.832	-1.688	
2	3	1	134.971	138.521	-138.521	0.0	-3.550	-1.726	
4	3	1	25.625	25.789	-25.789	0.0	-0.164	-0.155	
6	3	1	40.214	40.288	-40.288	0.0	-0.073	-0.066	
8	3	1	19.763	16.369	-16.369	0.0	3.394	2.586	
10	3	1	7.663	7.843	7.843	0.0	-0.180	-0.051	
12	3	1	35.057	32.780	-32.780	0.0	2.277	1.621	
-13	4	1	26.493	24.879	24.879	0.0	1.614	0.805	
-11	4	1	20.418	18.792	-18.792	0.0	1.626	0.823	
0	12	0	214.139	218.344	218.344	0.0	-4.205	-1.294	*
-7	4	1	11.822	15.019	15.019	0.0	-3.197	-1.317	
-5	4	1	27.148	26.272	26.272	0.0	0.876	0.886	
-3	4	1	13.951	16.815	16.815	0.0	-2.864	-2.188	
-1	4	1	22.760	24.906	24.906	0.0	-2.146	-2.573	
1	4	1	15.375	16.625	16.625	0.0	-1.250	-1.086	
3	4	1	6.893	9.936	9.936	0.0	-3.042	-1.439	
5	4	1	8.858	6.281	6.281	0.0	2.577	1.159	
7	4	1	25.593	26.783	26.783	0.0	-1.190	-0.913	
9	4	1	21.188	19.945	19.945	0.0	1.243	0.764	
11	4	1	21.696	21.673	-21.673	0.0	0.022	0.013	
-12	5	1	83.442	81.739	81.739	0.0	1.703	1.010	
-10	5	1	7.679	11.855	11.855	0.0	-4.175	-0.952	
-8	5	1	9.775	12.080	12.080	0.0	-2.305	-0.823	
-6	5	1	100.192	102.377	102.377	0.0	-2.184	-1.344	
-4	5	1	93.856	93.139	93.139	0.0	0.716	0.478	
-2	5	1	210.127	212.949	212.949	0.0	-2.822	-0.893	
0	5	1	84.113	83.620	-83.620	0.0	0.493	0.370	
2	5	1	124.737	123.763	123.763	0.0	0.974	0.508	
4	5	1	13.902	12.797	12.797	0.0	1.104	0.722	
0	12	0	215.662	218.344	218.344	0.0	-2.682	-0.820	*
6	5	1	155.520	157.814	157.814	0.0	-2.294	-0.949	
8	5	1	28.720	28.820	28.820	0.0	-0.100	-0.072	
12	5	1	44.930	45.852	45.852	0.0	-0.921	-0.533	
-13	6	1	57.456	57.913	57.913	0.0	-0.457	-0.255	
-9	6	1	109.083	111.516	111.516	0.0	-2.433	-1.327	
-7	6	1	94.592	96.280	-96.280	0.0	-1.687	-1.063	
-5	6	1	201.907	207.507	207.507	0.0	-5.599	-1.828	
-3	6	1	171.812	168.859	168.859	0.0	2.953	1.133	
-1	6	1	140.358	145.082	145.082	0.0	-4.725	-2.210	
1	6	1	54.509	41.935	-41.935	0.0	12.574	12.795	*
3	6	1	74.141	72.698	72.698	0.0	1.444	1.150	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
5	6	1	242.679	247.317	247.317	0.0	-4.639	-1.264	
7	6	1	30.275	30.297	-30.297	0.0	-0.022	-0.018	
9	6	1	89.517	89.098	89.098	0.0	0.418	0.256	
11	6	1	25.871	28.356	-28.356	0.0	-2.485	-1.175	
-12	7	1	47.746	45.901	45.901	0.0	1.845	1.172	
-10	7	1	19.190	18.437	-18.437	0.0	0.754	0.338	
-8	7	1	30.881	33.313	-33.313	0.0	-2.432	-1.786	
0	12	0	215.776	218.344	218.344	0.0	-2.568	-0.784	*
-6	7	1	32.306	32.060	32.060	0.0	0.246	0.216	
-4	7	1	8.056	3.401	-3.401	0.0	4.655	2.285	
-2	7	1	61.599	60.063	60.063	0.0	1.536	1.447	
0	7	1	137.050	138.232	-138.232	0.0	-1.181	-0.563	
2	7	1	15.326	13.555	13.555	0.0	1.771	1.465	
4	7	1	64.022	64.484	-64.484	0.0	-0.461	-0.385	
6	7	1	68.394	66.715	66.715	0.0	1.679	1.325	
8	7	1	7.827	10.345	-10.345	0.0	-2.518	-0.699	
10	7	1	25.527	24.897	-24.897	0.0	0.630	0.353	
12	7	1	11.642	11.490	11.490	0.0	0.152	0.044	
-11	8	1	16.570	18.472	-18.472	0.0	-1.902	-0.678	
-9	8	1	17.864	14.406	-14.406	0.0	3.458	1.946	
-7	8	1	16.980	17.862	17.862	0.0	-0.882	-0.489	
-5	8	1	10.987	16.132	-16.132	0.0	-5.145	-2.082	
-3	8	1	11.626	11.329	11.329	0.0	0.297	0.188	
1	8	1	3.651	5.362	5.362	0.0	-1.710	-0.496	
3	8	1	6.107	2.753	2.753	0.0	3.354	1.189	
5	8	1	23.480	23.464	-23.464	0.0	0.016	0.011	
0	12	0	215.481	218.344	218.344	0.0	-2.862	-0.876	*
7	8	1	27.033	28.497	28.497	0.0	-1.464	-1.177	
11	8	1	17.373	15.212	-15.212	0.0	2.161	1.092	
-12	9	1	25.249	27.750	-27.750	0.0	-2.501	-1.017	
-10	9	1	16.439	16.004	16.004	0.0	0.436	0.184	
-8	9	1	10.692	2.141	-2.141	0.0	8.551	3.695	
-6	9	1	17.389	15.683	15.683	0.0	1.706	1.014	
-4	9	1	20.435	18.168	18.168	0.0	2.267	1.657	
-2	9	1	59.503	61.357	-61.357	0.0	-1.854	-1.677	
0	9	1	94.134	93.431	93.431	0.0	0.703	0.463	
2	9	1	67.395	68.437	-68.437	0.0	-1.042	-0.870	
4	9	1	34.827	33.353	33.353	0.0	1.474	1.295	
6	9	1	14.409	10.903	-10.903	0.0	3.506	2.035	
8	9	1	4.650	1.097	1.097	0.0	3.554	0.779	
10	9	1	22.285	22.814	22.814	0.0	-0.529	-0.311	
-11	10	1	18.650	21.710	21.710	0.0	-3.060	-1.086	
-9	10	1	22.612	22.326	-22.326	0.0	0.287	0.178	
-7	10	1	21.155	19.426	19.426	0.0	1.729	1.253	
-5	10	1	24.938	29.765	-29.765	0.0	-4.828	-3.293	
-3	10	1	59.503	59.559	59.559	0.0	-0.056	-0.050	
0	12	0	214.548	218.344	218.344	0.0	-3.796	-1.166	*
-1	10	1	37.807	36.098	-36.098	0.0	1.710	1.854	
1	10	1	5.365	0.730	0.730	0.0	4.575	1.455	
3	10	1	51.807	52.798	52.798	0.0	-0.990	-0.922	
5	10	1	36.907	35.746	-35.746	0.0	1.161	1.024	
7	10	1	22.743	22.130	22.130	0.0	0.613	0.352	
9	10	1	15.735	14.318	-14.318	0.0	1.417	0.678	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
11	10	1	23.022	20.339	20.339	0.0	2.683	1.639	
-12	11	1	4.601	0.951	0.951	0.0	3.650	0.495	
-10	11	1	16.816	18.006	-18.006	0.0	-1.190	-0.567	
-8	11	1	11.642	11.467	11.467	0.0	0.175	0.073	
-6	11	1	15.359	21.805	-21.805	0.0	-6.447	-2.840	
-4	11	1	11.953	17.112	-17.112	0.0	-5.159	-2.041	
-2	11	1	28.163	29.374	-29.374	0.0	-1.211	-0.956	
0	11	1	9.219	9.758	-9.758	0.0	-0.539	-0.241	
2	11	1	58.717	58.614	-58.614	0.0	0.103	0.089	
4	11	1	9.006	8.630	-8.630	0.0	0.376	0.136	
6	11	1	16.112	17.397	-17.397	0.0	-1.285	-0.697	
10	11	1	17.176	17.469	-17.469	0.0	-0.292	-0.108	
-11	12	1	14.818	11.784	11.784	0.0	3.034	0.884	
0	12	0	214.696	218.344	218.344	0.0	-3.648	-1.120	*
-7	12	1	16.243	19.000	19.000	0.0	-2.757	-1.253	
-5	12	1	23.120	22.488	22.488	0.0	0.632	0.544	
-3	12	1	22.514	20.083	20.083	0.0	2.431	1.892	
-1	12	1	27.312	29.240	29.240	0.0	-1.928	-1.739	
1	12	1	34.795	35.876	35.876	0.0	-1.081	-1.050	
3	12	1	16.603	16.223	16.223	0.0	0.380	0.207	
5	12	1	19.845	20.515	20.515	0.0	-0.670	-0.429	
7	12	1	14.966	17.555	17.555	0.0	-2.589	-1.064	
9	12	1	8.089	13.201	13.201	0.0	-5.113	-1.205	
-10	13	1	5.976	3.389	3.389	0.0	2.587	0.463	
-8	13	1	6.893	3.482	-3.482	0.0	3.411	1.050	
-4	13	1	32.764	34.153	34.153	0.0	-1.388	-1.081	
-2	13	1	47.485	47.159	-47.159	0.0	0.325	0.286	
0	13	1	39.150	39.680	39.680	0.0	-0.530	-0.503	
2	13	1	33.354	35.248	-35.248	0.0	-1.894	-1.605	
4	13	1	18.175	15.891	15.891	0.0	2.284	1.347	
6	13	1	8.465	11.331	-11.331	0.0	-2.866	-0.756	
0	12	0	215.743	218.344	218.344	0.0	-2.600	-0.795	*
8	13	1	16.751	15.882	15.882	0.0	0.868	0.431	
10	13	1	10.135	9.562	-9.562	0.0	0.574	0.180	
-11	14	1	6.828	2.511	2.511	0.0	4.317	0.726	
-9	14	1	29.833	33.031	-33.031	0.0	-3.198	-1.610	
-7	14	1	32.535	31.780	31.780	0.0	0.755	0.613	
-5	14	1	82.394	84.798	-84.798	0.0	-2.404	-1.631	
-3	14	1	41.197	42.441	42.441	0.0	-1.244	-1.074	
-1	14	1	34.909	33.050	-33.050	0.0	1.859	1.752	
1	14	1	52.004	51.515	-51.515	0.0	0.489	0.428	
3	14	1	22.056	24.908	24.908	0.0	-2.853	-1.889	
5	14	1	43.358	43.005	-43.005	0.0	0.353	0.311	
7	14	1	11.216	9.172	9.172	0.0	2.045	0.687	
9	14	1	37.218	38.650	-38.650	0.0	-1.432	-0.931	
-10	15	1	10.643	14.478	14.478	0.0	-3.835	-0.835	
-8	15	1	17.225	14.018	-14.018	0.0	3.208	1.469	
-6	15	1	20.828	18.915	18.915	0.0	1.913	1.106	
-4	15	1	18.241	17.668	17.668	0.0	0.573	0.333	
-2	15	1	55.852	58.208	-58.208	0.0	-2.356	-1.927	
0	15	1	48.631	49.890	49.890	0.0	-1.259	-1.047	
2	15	1	25.511	27.947	-27.947	0.0	-2.437	-1.551	
0	12	0	213.926	218.344	218.344	0.0	-4.418	-1.361	*

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
8	15	1	12.673	10.977	10.977	0.0	1.696	0.658	
-9	16	1	41.917	39.765	39.765	0.0	2.153	1.330	
-7	16	1	23.415	24.692	24.692	0.0	-1.277	-0.727	
-5	16	1	67.674	68.915	68.915	0.0	-1.242	-0.895	
-3	16	1	51.873	53.821	53.821	0.0	-1.949	-1.498	
-1	16	1	70.293	71.495	71.495	0.0	-1.202	-0.873	
1	16	1	53.494	54.159	54.159	0.0	-0.665	-0.521	
3	16	1	46.273	46.234	46.234	0.0	0.039	0.031	
5	16	1	61.222	62.458	62.458	0.0	-1.235	-0.852	
7	16	1	36.448	36.274	36.274	0.0	0.175	0.132	
9	16	1	45.045	42.708	42.708	0.0	2.337	1.528	
-10	17	1	7.106	4.563	-4.563	0.0	2.543	0.412	
-8	17	1	11.233	9.623	9.623	0.0	1.609	0.447	
-6	17	1	48.434	49.509	49.509	0.0	-1.075	-0.762	
-4	17	1	13.296	14.052	14.052	0.0	-0.756	-0.322	
-2	17	1	119.628	119.809	119.809	0.0	-0.180	-0.092	
0	17	1	57.227	57.402	-57.402	0.0	-0.175	-0.134	
2	17	1	70.932	70.841	70.841	0.0	0.091	0.065	
0	12	0	214.041	218.344	218.344	0.0	-4.303	-1.325	*
6	17	1	86.176	87.364	87.364	0.0	-1.187	-0.725	
8	17	1	4.814	2.812	2.812	0.0	2.802	0.477	
-9	18	1	36.170	38.539	38.539	0.0	-2.369	-1.206	
-7	18	1	84.064	86.065	-86.065	0.0	-2.001	-1.177	
-5	18	1	83.917	84.180	84.180	0.0	-0.264	-0.166	
-3	18	1	4.044	5.218	5.218	0.0	-1.173	-0.216	
-1	18	1	11.265	8.917	8.917	0.0	2.348	0.953	
1	18	1	21.843	22.585	-22.585	0.0	-0.742	-0.412	
3	18	1	11.020	11.057	-11.057	0.0	-0.038	-0.014	
5	18	1	69.802	69.701	69.701	0.0	0.101	0.066	
7	18	1	38.299	39.531	-39.531	0.0	-1.232	-0.745	
-6	19	1	13.492	9.591	9.591	0.0	3.901	1.388	
-4	19	1	13.689	16.109	-16.109	0.0	-2.421	-0.930	
-2	19	1	36.825	37.836	37.836	0.0	-1.011	-0.723	
0	19	1	38.266	36.706	-36.706	0.0	1.560	1.174	
4	19	1	20.549	16.176	-16.176	0.0	4.374	2.670	
6	19	1	30.013	31.523	31.523	0.0	-1.510	-0.890	
0	12	0	214.892	218.344	218.344	0.0	-3.452	-1.059	*
-3	20	1	22.400	17.459	17.459	0.0	4.940	3.373	
1	20	1	18.028	14.322	14.322	0.0	3.706	2.260	
3	20	1	12.788	18.097	18.097	0.0	-5.309	-1.563	
5	20	1	14.196	15.668	-15.668	0.0	-1.472	-0.532	
7	20	1	27.476	26.348	26.348	0.0	1.128	0.553	
-6	21	1	10.954	1.593	-1.593	0.0	9.361	2.567	
-2	21	1	48.811	49.369	-49.369	0.0	-0.558	-0.383	
0	21	1	26.837	29.245	29.245	0.0	-2.408	-1.346	
2	21	1	36.023	34.391	-34.391	0.0	1.631	1.084	
4	21	1	4.650	0.891	0.891	0.0	3.759	0.694	
6	21	1	13.787	15.630	-15.630	0.0	-1.843	-0.533	
-5	22	1	26.771	28.347	-28.347	0.0	-1.576	-0.712	
-3	22	1	19.436	19.258	19.258	0.0	0.178	0.069	
-1	22	1	17.406	18.239	-18.239	0.0	-0.834	-0.326	
3	22	1	13.967	13.082	13.082	0.0	0.885	0.287	
0	12	0	214.073	218.344	218.344	0.0	-4.270	-1.315	*

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
5	22	1	2.685	2.568	-2.568	0.0	0.117	0.015	
-4	23	1	10.004	15.055	15.055	0.0	-5.051	-1.103	
0	23	1	11.282	16.603	16.603	0.0	-5.322	-1.221	
2	23	1	16.751	13.614	13.614	0.0	3.136	1.703	
4	23	1	6.026	0.443	0.443	0.0	5.583	1.058	
-3	24	1	15.244	4.345	4.345	0.0	10.899	3.977	*
-1	24	1	8.940	4.925	4.925	0.0	4.015	0.895	
1	24	1	3.832	3.898	3.898	0.0	-0.067	-0.010	
-12	0	2	48.090	49.843	-49.843	0.0	-1.752	-1.074	
-10	0	2	86.667	86.823	86.823	0.0	-0.156	-0.099	
-8	0	2	79.266	80.732	80.732	0.0	-1.465	-1.036	
-6	0	2	114.520	113.859	113.859	0.0	0.661	0.364	
-4	0	2	167.571	170.919	170.919	0.0	-3.347	-1.314	
-2	0	2	103.942	97.335	-97.335	0.0	6.607	4.084	
0	0	2	278.227	281.931	281.931	0.0	-3.704	-0.889	
2	0	2	144.779	143.809	143.809	0.0	0.969	0.437	
4	0	2	218.904	226.503	226.503	0.0	-7.599	-2.292	
6	0	2	54.509	56.802	-56.802	0.0	-2.293	-1.910	
8	0	2	78.644	80.054	80.054	0.0	-1.409	-0.962	
0	12	0	214.155	218.344	218.344	0.0	-4.189	-1.289	*
10	0	2	82.017	81.353	81.353	0.0	0.664	0.409	
-13	1	2	10.168	0.865	0.865	0.0	9.303	2.540	
-11	1	2	32.748	31.573	31.573	0.0	1.175	0.928	
-9	1	2	33.125	33.389	-33.389	0.0	-0.264	-0.247	
-7	1	2	168.963	172.524	172.524	0.0	-3.561	-1.368	
-5	1	2	31.520	32.112	-32.112	0.0	-0.592	-0.572	
-3	1	2	11.216	3.551	-3.551	0.0	7.666	6.274	
-1	1	2	20.320	22.203	-22.203	0.0	-1.883	-1.849	
1	1	2	120.300	112.324	112.324	0.0	7.975	4.295	
3	1	2	66.888	65.325	65.325	0.0	1.563	1.323	
5	1	2	36.579	35.729	-35.729	0.0	0.851	0.749	
7	1	2	50.743	52.816	52.816	0.0	-2.073	-1.664	
9	1	2	37.546	34.980	-34.980	0.0	2.565	2.222	
11	1	2	62.336	63.551	63.551	0.0	-1.216	-0.809	
-10	2	2	4.257	2.047	-2.047	0.0	2.211	0.478	
-8	2	2	3.471	6.404	6.404	0.0	-2.932	-0.599	
-6	2	2	29.162	29.143	-29.143	0.0	0.019	0.017	
-4	2	2	14.376	13.238	-13.238	0.0	1.138	0.892	
-2	2	2	12.166	11.694	-11.694	0.0	0.472	0.346	
0	12	0	214.090	218.344	218.344	0.0	-4.254	-1.310	*
0	2	2	24.021	21.867	-21.867	0.0	2.154	2.194	
4	2	2	16.832	18.268	18.268	0.0	-1.436	-0.908	
8	2	2	16.177	18.509	-18.509	0.0	-2.331	-1.169	
10	2	2	18.339	17.588	-17.588	0.0	0.750	0.373	
-13	3	2	19.632	16.630	-16.630	0.0	3.003	1.200	
-11	3	2	18.159	12.774	-12.774	0.0	5.384	2.975	
-9	3	2	64.350	64.840	64.840	0.0	-0.491	-0.376	
-7	3	2	91.138	91.689	-91.689	0.0	-0.551	-0.359	
-5	3	2	17.635	21.366	21.366	0.0	-3.731	-2.678	
-3	3	2	17.045	13.389	13.389	0.0	3.657	3.536	
1	3	2	82.001	80.144	-80.144	0.0	1.856	1.396	
3	3	2	8.580	6.244	6.244	0.0	2.336	0.983	
5	3	2	32.666	32.476	32.476	0.0	0.190	0.165	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
7	3	2	70.670	71.911	-71.911	0.0	-1.241	-0.909	
9	3	2	39.936	40.982	40.982	0.0	-1.046	-0.790	
11	3	2	29.309	29.629	-29.629	0.0	-0.319	-0.199	
-12	4	2	48.254	48.423	48.423	0.0	-0.169	-0.110	
0	12	0	214.237	218.344	218.344	0.0	-4.107	-1.264	*
-10	4	2	42.523	41.998	-41.998	0.0	0.525	0.414	
-8	4	2	9.530	6.543	6.543	0.0	2.987	1.192	
-6	4	2	89.336	89.403	89.403	0.0	-0.067	-0.044	
-4	4	2	66.495	65.761	-65.761	0.0	0.734	0.633	
-2	4	2	21.417	25.418	25.418	0.0	-4.001	-3.857	
0	4	2	100.602	95.506	95.506	0.0	5.096	3.215	
2	4	2	72.488	74.215	74.215	0.0	-1.728	-1.399	
4	4	2	77.678	76.987	-76.987	0.0	0.691	0.508	
6	4	2	94.118	95.606	95.606	0.0	-1.488	-0.938	
8	4	2	4.339	8.531	8.531	0.0	-4.192	-0.343	
10	4	2	23.104	24.486	-24.486	0.0	-1.382	-0.742	
-13	5	2	10.971	2.923	2.923	0.0	8.048	2.103	
-11	5	2	21.253	21.163	-21.163	0.0	0.090	0.047	
-9	5	2	36.727	37.667	37.667	0.0	-0.940	-0.730	
-7	5	2	46.093	46.905	-46.905	0.0	-0.812	-0.723	
-5	5	2	25.985	25.193	-25.193	0.0	0.792	0.669	
-3	5	2	26.166	22.932	22.932	0.0	3.233	3.406	
-1	5	2	64.710	64.812	-64.812	0.0	-0.102	-0.092	
1	5	2	82.296	81.084	-81.084	0.0	1.211	0.897	
3	5	2	32.109	29.507	29.507	0.0	2.602	2.663	
0	12	0	214.565	218.344	218.344	0.0	-3.779	-1.161	*
5	5	2	31.946	32.135	-32.135	0.0	-0.190	-0.169	
7	5	2	43.719	41.776	-41.776	0.0	1.943	1.528	
9	5	2	12.837	14.712	14.712	0.0	-1.875	-0.638	
11	5	2	15.670	14.466	-14.466	0.0	1.204	0.433	
-10	6	2	19.387	20.644	20.644	0.0	-1.257	-0.748	
-8	6	2	19.600	21.067	-21.067	0.0	-1.467	-0.841	
-6	6	2	16.800	18.818	18.818	0.0	-2.019	-1.117	
-4	6	2	9.988	6.854	-6.854	0.0	3.134	1.684	
-2	6	2	4.093	4.591	4.591	0.0	-0.498	-0.158	
0	6	2	10.021	9.514	9.514	0.0	0.506	0.297	
2	6	2	11.036	11.561	11.561	0.0	-0.524	-0.297	
4	6	2	15.359	13.889	13.889	0.0	1.469	0.975	
6	6	2	23.971	24.678	24.678	0.0	-0.706	-0.528	
8	6	2	28.065	29.635	-29.635	0.0	-1.570	-1.047	
10	6	2	17.897	19.613	19.613	0.0	-1.716	-0.747	
-13	7	2	22.940	26.089	26.089	0.0	-3.149	-1.071	
-11	7	2	20.271	20.463	-20.463	0.0	-0.192	-0.095	
-9	7	2	24.381	24.160	24.160	0.0	0.221	0.155	
0	12	0	213.173	218.344	218.344	0.0	-5.171	-1.598	*
-5	7	2	35.630	36.026	36.026	0.0	-0.396	-0.383	
-3	7	2	40.034	39.987	-39.987	0.0	0.047	0.048	
-1	7	2	44.062	41.941	-41.941	0.0	2.121	2.242	
1	7	2	19.501	18.236	18.236	0.0	1.265	0.979	
3	7	2	6.615	9.366	-9.366	0.0	-2.751	-0.750	
5	7	2	18.142	17.099	17.099	0.0	1.044	0.689	
9	7	2	15.228	13.898	13.898	0.0	1.330	0.580	
11	7	2	16.849	12.910	-12.910	0.0	3.939	1.505	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
-12	8	2	18.486	18.579	18.579	0.0	-0.093	-0.038	
-10	8	2	13.656	14.877	-14.877	0.0	-1.222	-0.461	
-6	8	2	17.897	20.485	-20.485	0.0	-2.588	-1.633	
-4	8	2	18.568	15.774	-15.774	0.0	2.794	2.020	
-2	8	2	56.064	56.335	56.335	0.0	-0.270	-0.246	
0	8	2	89.664	88.574	-88.574	0.0	1.090	0.742	
2	8	2	88.911	89.429	89.429	0.0	-0.518	-0.350	
4	8	2	44.013	42.022	-42.022	0.0	1.991	1.871	
6	8	2	14.966	15.447	15.447	0.0	-0.481	-0.232	
0	12	0	214.368	218.344	218.344	0.0	-3.976	-1.222	*
10	8	2	1.294	5.658	-5.658	0.0	-4.365	-0.574	
-11	9	2	12.624	11.976	-11.976	0.0	0.648	0.197	
-9	9	2	10.381	13.517	13.517	0.0	-3.136	-0.927	
-7	9	2	46.649	47.625	-47.625	0.0	-0.975	-0.818	
-5	9	2	15.293	16.074	16.074	0.0	-0.780	-0.466	
-3	9	2	88.780	89.865	-89.865	0.0	-1.085	-0.732	
-1	9	2	11.282	8.901	8.901	0.0	2.381	1.208	
1	9	2	42.048	42.004	-42.004	0.0	0.045	0.042	
3	9	2	75.353	78.915	-78.915	0.0	-3.562	-2.611	
5	9	2	23.448	22.020	22.020	0.0	1.428	1.164	
7	9	2	43.424	44.347	-44.347	0.0	-0.923	-0.704	
9	9	2	5.764	2.163	-2.163	0.0	3.601	0.778	
-10	10	2	29.801	30.654	30.654	0.0	-0.854	-0.609	
-8	10	2	40.034	40.117	40.117	0.0	-0.083	-0.066	
-6	10	2	25.560	23.382	23.382	0.0	2.178	1.803	
-4	10	2	54.280	53.973	53.973	0.0	0.307	0.267	
-2	10	2	29.850	31.347	31.347	0.0	-1.497	-1.267	
0	10	2	68.067	69.066	69.066	0.0	-0.999	-0.757	
2	10	2	42.228	44.093	44.093	0.0	-1.865	-1.655	
4	10	2	77.400	77.854	77.854	0.0	-0.454	-0.326	
6	10	2	21.630	18.625	18.625	0.0	3.005	2.072	
8	10	2	18.241	18.518	18.518	0.0	-0.278	-0.137	
10	10	2	10.103	11.633	11.633	0.0	-1.530	-0.453	
-11	11	2	41.655	43.006	43.006	0.0	-1.351	-0.771	
-7	11	2	140.931	143.624	143.624	0.0	-2.693	-1.193	
-5	11	2	19.141	17.857	-17.857	0.0	1.284	1.006	
-3	11	2	121.413	124.416	124.416	0.0	-3.003	-1.551	
-1	11	2	3.195	4.642	-4.642	0.0	-1.449	-0.304	
1	11	2	95.444	93.970	93.970	0.0	1.474	0.924	
3	11	2	143.370	146.316	146.316	0.0	-2.945	-1.304	
5	11	2	13.509	15.422	-15.422	0.0	-1.913	-0.884	
7	11	2	51.201	52.865	52.865	0.0	-1.664	-1.212	
9	11	2	12.166	5.603	5.603	0.0	6.563	2.800	
-12	12	2	32.306	27.951	-27.951	0.0	4.355	2.791	
-10	12	2	15.211	14.593	14.593	0.0	0.618	0.271	
-8	12	2	22.465	21.359	21.359	0.0	1.106	0.636	
-6	12	2	91.105	91.477	91.477	0.0	-0.372	-0.234	
-4	12	2	26.182	26.635	26.635	0.0	-0.453	-0.319	
0	12	0	213.304	218.344	218.344	0.0	-5.040	-1.558	*
-2	12	2	130.681	131.987	-131.987	0.0	-1.307	-0.632	
0	12	2	203.365	208.090	208.090	0.0	-4.725	-1.521	
2	12	2	12.084	12.865	-12.865	0.0	-0.781	-0.328	
4	12	2	71.996	73.038	73.038	0.0	-1.041	-0.741	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
6	12	2	26.362	27.255	-27.255	0.0	-0.893	-0.523	
8	12	2	29.031	32.016	32.016	0.0	-2.985	-1.629	
10	12	2	15.162	17.644	17.644	0.0	-2.481	-0.829	
-9	13	2	17.176	11.696	-11.696	0.0	5.480	3.341	
-7	13	2	36.317	38.688	38.688	0.0	-2.370	-1.686	
-5	13	2	55.672	55.889	-55.889	0.0	-0.218	-0.174	
-3	13	2	28.900	30.426	30.426	0.0	-1.526	-1.234	
-1	13	2	67.002	67.204	-67.204	0.0	-0.202	-0.155	
1	13	2	13.918	13.450	-13.450	0.0	0.468	0.238	
3	13	2	42.736	44.129	44.129	0.0	-1.393	-1.151	
5	13	2	46.322	46.622	-46.622	0.0	-0.300	-0.231	
7	13	2	15.539	13.470	-13.470	0.0	2.069	0.963	
9	13	2	16.423	17.320	-17.320	0.0	-0.897	-0.350	
-8	14	2	15.359	11.404	11.404	0.0	3.955	1.992	
0	12	0	213.991	218.344	218.344	0.0	-4.352	-1.341	*
-6	14	2	5.715	2.304	-2.304	0.0	3.410	0.956	
-4	14	2	11.757	3.117	3.117	0.0	8.639	5.129	
-2	14	2	26.346	25.855	25.855	0.0	0.491	0.402	
2	14	2	25.003	24.918	24.918	0.0	0.086	0.064	
4	14	2	10.381	11.587	11.587	0.0	-1.206	-0.436	
6	14	2	16.210	19.663	19.663	0.0	-3.453	-1.321	
8	14	2	7.499	4.437	-4.437	0.0	3.063	0.752	
-11	15	2	16.194	11.196	-11.196	0.0	4.997	1.693	
-9	15	2	25.527	24.670	24.670	0.0	0.857	0.419	
-7	15	2	30.636	31.547	-31.547	0.0	-0.911	-0.556	
-5	15	2	30.767	32.476	32.476	0.0	-1.709	-1.251	
-3	15	2	37.693	39.132	-39.132	0.0	-1.439	-1.068	
-1	15	2	27.721	28.395	28.395	0.0	-0.674	-0.506	
1	15	2	12.100	7.154	-7.154	0.0	4.947	2.428	
3	15	2	29.178	29.389	-29.389	0.0	-0.211	-0.159	
5	15	2	30.079	29.844	29.844	0.0	0.235	0.155	
7	15	2	23.693	23.258	-23.258	0.0	0.435	0.234	
-10	16	2	5.043	4.553	-4.553	0.0	0.490	0.079	
0	12	0	214.990	218.344	218.344	0.0	-3.353	-1.029	*
-4	16	2	14.294	14.895	-14.895	0.0	-0.600	-0.248	
-2	16	2	12.919	14.233	14.233	0.0	-1.314	-0.544	
0	16	2	41.033	40.591	-40.591	0.0	0.442	0.373	
2	16	2	29.047	28.456	28.456	0.0	0.591	0.451	
4	16	2	25.560	28.206	-28.206	0.0	-2.646	-1.509	
6	16	2	11.085	4.515	4.515	0.0	6.570	2.370	
-5	17	2	7.778	3.262	3.262	0.0	4.516	1.332	
-3	17	2	11.855	7.896	-7.896	0.0	3.959	1.840	
-1	17	2	9.120	5.758	5.758	0.0	3.362	1.176	
3	17	2	9.906	3.501	-3.501	0.0	6.406	2.855	
5	17	2	5.502	2.521	-2.521	0.0	2.980	0.666	
7	17	2	11.134	7.727	7.727	0.0	3.407	1.093	
-6	18	2	17.946	17.114	17.114	0.0	0.831	0.390	
-4	18	2	11.855	8.003	8.003	0.0	3.852	1.566	
0	12	0	212.567	218.344	218.344	0.0	-5.777	-1.790	*
-2	18	2	20.746	22.369	22.369	0.0	-1.623	-0.804	
0	18	2	9.497	10.911	10.911	0.0	-1.414	-0.474	
2	18	2	22.400	22.697	22.697	0.0	-0.298	-0.168	
4	18	2	11.560	14.281	14.281	0.0	-2.721	-0.857	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
6	18	2	24.135	24.355	24.355	0.0	-0.220	-0.106	
-7	19	2	37.415	35.583	-35.583	0.0	1.832	1.266	
-5	19	2	4.699	5.738	5.738	0.0	-1.038	-0.189	
-3	19	2	21.122	19.378	-19.378	0.0	1.744	1.035	
-1	19	2	7.941	7.365	-7.365	0.0	0.577	0.157	
1	19	2	22.973	26.558	-26.558	0.0	-3.585	-1.643	
-8	20	2	8.220	2.310	-2.310	0.0	5.910	1.247	
-6	20	2	15.916	13.011	13.011	0.0	2.905	1.260	
-4	20	2	37.988	39.381	-39.381	0.0	-1.393	-0.960	
-2	20	2	14.360	8.724	8.724	0.0	5.636	2.987	
0	20	2	24.315	23.871	-23.871	0.0	0.444	0.260	
2	20	2	24.364	25.504	25.504	0.0	-1.139	-0.530	
4	20	2	55.098	56.489	-56.489	0.0	-1.390	-0.954	
6	20	2	28.573	27.744	27.744	0.0	0.829	0.462	
0	12	0	214.679	218.344	218.344	0.0	-3.665	-1.125	*
-7	21	2	16.194	11.099	-11.099	0.0	5.095	1.870	
-5	21	2	26.149	26.725	26.725	0.0	-0.576	-0.322	
-3	21	2	14.344	20.257	20.257	0.0	-5.913	-1.773	
-1	21	2	25.462	24.944	24.944	0.0	0.517	0.315	
3	21	2	18.175	20.117	20.117	0.0	-1.942	-0.722	
5	21	2	33.583	33.471	33.471	0.0	0.112	0.054	
-6	22	2	23.710	24.128	24.128	0.0	-0.419	-0.178	
-4	22	2	39.510	38.715	38.715	0.0	0.795	0.474	
-2	22	2	10.496	11.376	11.376	0.0	-0.880	-0.249	
0	22	2	59.978	57.951	57.951	0.0	2.027	1.314	
2	22	2	19.567	18.018	18.018	0.0	1.549	0.718	
4	22	2	51.955	52.232	52.232	0.0	-0.278	-0.181	
-3	23	2	23.644	25.133	25.133	0.0	-1.489	-0.654	
-1	23	2	21.434	19.515	-19.515	0.0	1.918	0.820	
1	23	2	25.904	27.796	27.796	0.0	-1.892	-0.864	
-13	0	3	13.590	13.070	-13.070	0.0	0.521	0.172	
-11	0	3	6.943	10.659	10.659	0.0	-3.716	-0.974	
-9	0	3	18.846	20.003	-20.003	0.0	-1.157	-0.678	
0	12	0	213.959	218.344	218.344	0.0	-4.385	-1.351	*
-5	0	3	12.870	12.425	-12.425	0.0	0.445	0.219	
-3	0	3	17.848	18.274	-18.274	0.0	-0.426	-0.306	
-1	0	3	4.421	2.318	-2.318	0.0	2.103	0.614	
1	0	3	12.624	14.087	14.087	0.0	-1.463	-0.752	
3	0	3	16.046	15.515	-15.515	0.0	0.532	0.300	
7	0	3	11.118	11.103	-11.103	0.0	0.015	0.005	
9	0	3	14.606	16.259	16.259	0.0	-1.654	-0.678	
-12	1	3	9.169	1.697	-1.697	0.0	7.473	2.306	
-10	1	3	12.297	5.568	5.568	0.0	6.729	3.170	
-6	1	3	5.109	3.954	-3.954	0.0	1.154	0.307	
-4	1	3	19.043	18.983	18.983	0.0	0.060	0.045	
-2	1	3	27.410	27.514	-27.514	0.0	-0.104	-0.096	
0	1	3	31.634	31.013	31.013	0.0	0.622	0.579	
2	1	3	31.520	32.196	-32.196	0.0	-0.676	-0.524	
4	1	3	5.976	0.137	0.137	0.0	5.840	1.593	
6	1	3	18.273	17.588	-17.588	0.0	0.685	0.398	
8	1	3	16.652	15.618	15.618	0.0	1.035	0.541	
10	1	3	18.552	16.007	-16.007	0.0	2.545	1.225	
0	12	0	213.271	218.344	218.344	0.0	-5.073	-1.568	*

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
-11	2	3	17.340	13.022	13.022	0.0	4.318	2.708	
-9	2	3	25.134	24.521	-24.521	0.0	0.613	0.450	
-7	2	3	50.645	51.075	51.075	0.0	-0.430	-0.380	
-5	2	3	61.632	63.074	-63.074	0.0	-1.442	-1.208	
-3	2	3	105.055	104.624	104.624	0.0	0.432	0.258	
-1	2	3	3.029	4.418	-4.418	0.0	-1.389	-0.308	
1	2	3	5.927	7.839	7.839	0.0	-1.912	-0.523	
3	2	3	52.626	53.925	53.925	0.0	-1.299	-1.152	
5	2	3	6.173	8.503	8.503	0.0	-2.330	-0.685	
7	2	3	28.065	28.856	28.856	0.0	-0.791	-0.481	
9	2	3	27.066	23.233	-23.233	0.0	3.833	2.655	
-12	3	3	25.576	26.270	-26.270	0.0	-0.693	-0.382	
-10	3	3	8.711	12.215	12.215	0.0	-3.504	-0.953	
-8	3	3	53.281	53.252	-53.252	0.0	0.029	0.025	
-6	3	3	10.479	9.358	9.358	0.0	1.121	0.471	
-4	3	3	7.401	0.772	0.772	0.0	6.629	2.380	
-2	3	3	103.467	102.361	-102.361	0.0	1.106	0.667	
0	3	3	28.474	26.024	26.024	0.0	2.451	2.239	
2	3	3	77.924	76.972	-76.972	0.0	0.952	0.693	
0	12	0	214.237	218.344	218.344	0.0	-4.107	-1.264	*
6	3	3	54.149	54.404	-54.404	0.0	-0.256	-0.209	
10	3	3	9.857	2.406	2.406	0.0	7.451	2.379	
-13	4	3	21.630	22.178	22.178	0.0	-0.548	-0.242	
-9	4	3	4.028	9.832	9.832	0.0	-5.804	-1.059	
-5	4	3	10.872	11.947	11.947	0.0	-1.074	-0.457	
-3	4	3	13.476	9.877	9.877	0.0	3.599	2.098	
-1	4	3	23.693	23.848	23.848	0.0	-0.155	-0.135	
1	4	3	18.306	20.903	20.903	0.0	-2.597	-1.477	
3	4	3	14.294	12.954	12.954	0.0	1.341	0.709	
5	4	3	10.070	12.258	-12.258	0.0	-2.188	-0.788	
7	4	3	14.835	14.921	14.921	0.0	-0.086	-0.045	
9	4	3	24.037	21.631	21.631	0.0	2.406	1.420	
-12	5	3	78.317	76.298	76.298	0.0	2.019	1.290	
-10	5	3	22.416	21.371	21.371	0.0	1.045	0.665	
-8	5	3	60.682	59.838	59.838	0.0	0.844	0.667	
-6	5	3	27.148	28.529	28.529	0.0	-1.381	-1.050	
0	12	0	212.894	218.344	218.344	0.0	-5.449	-1.687	*
-4	5	3	23.398	26.655	26.655	0.0	-3.256	-2.275	
-2	5	3	184.486	187.532	187.532	0.0	-3.046	-1.082	
0	5	3	23.480	22.548	22.548	0.0	0.932	0.735	
2	5	3	99.472	98.780	98.780	0.0	0.691	0.420	
4	5	3	47.485	48.839	-48.839	0.0	-1.354	-1.125	
6	5	3	106.414	106.278	106.278	0.0	0.136	0.076	
8	5	3	26.804	28.249	28.249	0.0	-1.445	-0.811	
10	5	3	19.452	22.659	22.659	0.0	-3.207	-1.208	
-13	6	3	20.238	20.755	20.755	0.0	-0.517	-0.213	
-11	6	3	19.354	19.119	19.119	0.0	0.235	0.107	
-9	6	3	132.465	134.108	134.108	0.0	-1.643	-0.763	
-7	6	3	82.083	84.521	-84.521	0.0	-2.439	-1.648	
-5	6	3	110.966	112.835	112.835	0.0	-1.868	-1.041	
-3	6	3	44.292	42.547	42.547	0.0	1.745	1.704	
-1	6	3	214.925	214.131	214.131	0.0	0.794	0.243	
1	6	3	23.513	24.851	24.851	0.0	-1.338	-0.957	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
3	8	3	2.129	10.212	10.212	0.0	-8.083	-1.218	
5	8	3	108.232	110.658	110.658	0.0	-2.426	-1.339	
7	8	3	15.211	13.665	13.665	0.0	1.546	0.732	
9	8	3	92.349	93.638	93.638	0.0	-1.289	-0.721	
0	12	0	213.893	218.344	218.344	0.0	-4.451	-1.372	*
-12	7	3	37.398	39.438	39.438	0.0	-2.040	-1.140	
-8	7	3	17.438	15.499	15.499	0.0	1.939	1.209	
-6	7	3	19.976	20.935	-20.935	0.0	-0.959	-0.579	
-4	7	3	34.385	35.597	-35.597	0.0	-1.212	-1.049	
-2	7	3	80.806	81.814	81.814	0.0	-1.008	-0.723	
0	7	3	38.757	39.269	-39.269	0.0	-0.512	-0.465	
2	7	3	14.425	15.222	15.222	0.0	-0.797	-0.368	
4	7	3	84.719	86.841	-86.841	0.0	-2.122	-1.405	
6	7	3	45.110	43.582	43.582	0.0	1.529	1.305	
8	7	3	10.938	7.534	-7.534	0.0	3.404	1.167	
10	7	3	8.629	0.442	-0.442	0.0	8.187	2.158	
-11	8	3	10.823	7.741	-7.741	0.0	3.082	1.082	
-9	8	3	11.380	16.348	-16.348	0.0	-4.968	-1.472	
-5	8	3	15.850	13.522	-13.522	0.0	2.328	1.404	
-3	8	3	7.450	4.728	4.728	0.0	2.723	0.882	
1	8	3	9.644	13.051	13.051	0.0	-3.407	-1.171	
3	8	3	13.509	12.736	12.736	0.0	0.772	0.382	
0	12	0	213.598	218.344	218.344	0.0	-4.745	-1.464	*
5	8	3	26.853	29.427	-29.427	0.0	-2.574	-1.943	
7	8	3	4.405	12.082	12.082	0.0	-7.677	-1.390	
9	8	3	13.623	7.803	7.803	0.0	5.821	2.566	
-12	9	3	19.272	19.143	-19.143	0.0	0.129	0.061	
-10	9	3	26.182	25.564	25.564	0.0	0.618	0.386	
-8	9	3	33.583	33.736	-33.736	0.0	-0.153	-0.115	
-6	9	3	25.756	25.858	25.858	0.0	-0.102	-0.079	
-4	9	3	35.466	35.072	35.072	0.0	0.394	0.328	
-2	9	3	56.277	56.757	-56.757	0.0	-0.480	-0.408	
0	9	3	57.636	60.087	60.087	0.0	-2.450	-2.052	
2	9	3	35.220	35.278	-35.278	0.0	-0.058	-0.052	
4	9	3	31.667	30.187	30.187	0.0	1.481	1.196	
6	9	3	24.446	23.275	-23.275	0.0	1.171	0.829	
8	9	3	10.692	7.574	7.574	0.0	3.118	1.048	
-11	10	3	6.091	2.276	2.276	0.0	3.815	0.762	
-9	10	3	13.902	14.643	-14.643	0.0	-0.741	-0.306	
-7	10	3	31.847	31.060	31.060	0.0	0.788	0.592	
-5	10	3	60.027	60.622	-60.622	0.0	-0.595	-0.456	
-3	10	3	57.718	58.071	58.071	0.0	-0.352	-0.285	
-1	10	3	10.987	9.009	-9.009	0.0	1.978	0.919	
0	12	0	214.155	218.344	218.344	0.0	-4.189	-1.289	*
1	10	3	22.170	19.679	-19.679	0.0	2.491	1.808	
3	10	3	23.055	23.418	23.418	0.0	-0.363	-0.254	
5	10	3	12.854	7.154	7.154	0.0	5.699	3.063	
7	10	3	11.478	3.308	3.308	0.0	8.170	3.415	
9	10	3	25.920	21.769	-21.769	0.0	4.151	2.524	
-10	11	3	10.643	8.399	-8.399	0.0	2.244	0.695	
-4	11	3	9.006	1.326	1.326	0.0	7.679	3.310	
-2	11	3	39.625	39.900	-39.900	0.0	-0.275	-0.237	
0	11	3	8.547	0.647	-0.647	0.0	7.900	2.986	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
2	11	3	16.308	18.558	-18.558	0.0	-2.249	-1.100	
4	11	3	24.921	23.279	-23.279	0.0	1.642	1.163	
6	11	3	21.057	24.172	-24.172	0.0	-3.115	-1.403	
-11	12	3	12.690	14.465	14.465	0.0	-1.775	-0.558	
-9	12	3	10.594	3.789	-3.789	0.0	6.805	2.383	
-7	12	3	16.914	15.757	15.757	0.0	1.158	0.638	
-5	12	3	6.206	6.802	6.802	0.0	-0.597	-0.161	
-3	12	0	214.057	218.344	218.344	0.0	-4.287	-1.320	*
-3	12	3	15.408	15.443	15.443	0.0	-0.035	-0.018	
-1	12	3	14.737	20.745	20.745	0.0	-6.008	-2.487	
1	12	3	30.488	31.426	31.426	0.0	-0.938	-0.750	
3	12	3	9.448	9.295	9.295	0.0	0.153	0.051	
5	12	3	18.699	17.603	17.603	0.0	1.096	0.620	
7	12	3	9.300	6.883	6.883	0.0	2.417	0.736	
-8	13	3	4.716	0.897	-0.897	0.0	3.819	0.782	
-4	13	3	10.365	13.061	13.061	0.0	-2.696	-1.022	
-2	13	3	16.046	15.285	-15.285	0.0	0.762	0.443	
0	13	3	32.273	32.470	32.470	0.0	-0.197	-0.153	
2	13	3	35.597	36.256	-36.256	0.0	-0.659	-0.494	
4	13	3	20.533	22.211	22.211	0.0	-1.678	-0.81	
6	13	3	17.062	15.315	-15.315	0.0	1.747	0.828	
8	13	3	9.955	9.938	9.938	0.0	0.017	0.006	
-9	14	3	37.496	39.412	-39.412	0.0	-1.915	-1.139	
-7	14	3	16.882	19.817	19.817	0.0	-2.935	-1.270	
-5	14	3	58.864	57.437	-57.437	0.0	1.427	1.102	
0	12	0	213.942	218.344	218.344	0.0	-4.401	-1.356	*
-3	14	3	37.251	36.193	36.193	0.0	1.058	0.689	
-1	14	3	53.739	54.311	-54.311	0.0	-0.572	-0.467	
3	14	3	11.102	7.397	7.397	0.0	3.705	1.565	
5	14	3	32.715	35.382	-35.382	0.0	-2.667	-1.784	
7	14	3	14.409	12.685	12.685	0.0	1.724	0.674	
-10	15	3	16.652	15.046	15.046	0.0	1.607	0.626	
-8	15	3	13.689	11.680	-11.680	0.0	2.009	0.808	
-6	15	3	14.147	13.964	13.964	0.0	0.183	0.085	
-4	15	3	9.071	8.517	8.517	0.0	0.554	0.188	
-2	15	3	22.907	21.729	-21.729	0.0	1.178	0.760	
0	15	3	28.540	31.582	31.582	0.0	-3.042	-2.059	
2	15	3	35.351	35.185	-35.185	0.0	0.167	0.132	
4	15	3	21.859	21.180	21.180	0.0	0.680	0.455	
6	15	3	21.712	16.944	-16.944	0.0	4.768	2.968	
-9	16	3	33.730	35.636	35.636	0.0	-1.905	-0.964	
-7	16	3	7.778	11.079	11.079	0.0	-3.301	-0.731	
-5	16	3	57.194	57.288	57.288	0.0	-0.093	-0.068	
-3	16	3	34.271	33.835	33.835	0.0	0.436	0.318	
-1	16	3	67.264	64.865	64.865	0.0	2.399	1.792	
0	12	0	213.156	218.344	218.344	0.0	-5.187	-1.604	*
1	16	3	48.008	48.148	48.148	0.0	-0.140	-0.111	
3	16	3	40.738	41.406	41.406	0.0	-0.667	-0.462	
5	16	3	31.454	29.785	29.785	0.0	1.669	1.255	
7	16	3	29.735	28.539	28.539	0.0	1.197	0.762	
-8	17	3	27.361	26.625	26.625	0.0	0.736	0.411	
-6	17	3	5.453	12.821	12.821	0.0	-7.369	-1.368	
-2	17	3	91.252	91.729	91.729	0.0	-0.477	-0.284	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
0	17	3	11.020	10.535	-10.535	0.0	0.485	0.154	
2	17	3	70.146	70.197	70.197	0.0	-0.051	-0.036	
4	17	3	51.676	50.142	-50.142	0.0	1.534	1.092	
6	17	3	70.392	69.097	69.097	0.0	1.295	0.836	
-7	18	3	63.416	62.153	-62.153	0.0	1.263	0.830	
-5	18	3	20.828	23.053	23.053	0.0	-2.225	-1.072	
-3	18	3	12.952	17.415	-17.415	0.0	-4.463	-1.544	
-1	18	3	78.775	78.408	78.408	0.0	0.367	0.236	
1	18	3	34.713	36.340	-36.340	0.0	-1.627	-0.985	
3	18	3	24.283	23.721	-23.721	0.0	0.562	0.297	
5	18	3	44.865	44.571	44.571	0.0	0.294	0.189	
0	12	0	212.043	218.344	218.344	0.0	-6.301	-1.957	*
-6	19	3	9.579	1.500	1.500	0.0	8.079	2.529	
-4	19	3	8.711	8.018	-8.018	0.0	0.693	0.198	
-2	19	3	13.394	15.335	15.335	0.0	-1.941	-0.696	
0	19	3	13.361	9.589	-9.589	0.0	3.772	1.723	
2	19	3	20.828	21.724	21.724	0.0	-0.896	-0.398	
4	19	3	42.933	42.741	-42.741	0.0	0.191	0.122	
-7	20	3	11.724	16.566	16.566	0.0	-4.842	-1.171	
-3	20	3	19.223	18.324	18.324	0.0	0.899	0.397	
1	20	3	10.496	12.475	12.475	0.0	-1.980	-0.547	
3	20	3	17.242	17.383	17.383	0.0	-0.141	-0.057	
-4	21	3	3.291	2.065	2.065	0.0	1.226	0.195	
-2	21	3	28.523	28.750	-28.750	0.0	-0.226	-0.126	
0	21	3	18.715	17.171	17.171	0.0	1.544	0.766	
2	21	3	37.464	35.267	-35.267	0.0	2.197	1.368	
-3	22	3	16.063	13.705	13.705	0.0	2.358	0.909	
-1	22	3	18.241	17.674	-17.674	0.0	0.566	0.241	
1	22	3	7.254	0.604	0.604	0.0	6.649	1.517	
0	12	0	212.501	218.344	218.344	0.0	-5.842	-1.812	*
-10	0	4	41.295	40.976	40.976	0.0	0.319	0.243	
-8	0	4	21.843	22.098	-22.098	0.0	-0.255	-0.175	
-6	0	4	158.598	163.578	163.578	0.0	-4.979	-2.003	
-4	0	4	121.790	122.287	122.287	0.0	-0.497	-0.254	
-2	0	4	56.146	56.851	-56.851	0.0	-0.704	-0.585	
0	0	4	175.742	174.716	174.716	0.0	1.026	0.379	
2	0	4	4.421	1.545	1.545	0.0	2.876	0.669	
4	0	4	154.423	158.137	158.137	0.0	-3.714	-1.514	
6	0	4	14.082	19.645	19.645	0.0	-5.563	-2.120	
8	0	4	53.215	52.414	52.414	0.0	0.801	0.567	
-11	1	4	28.605	27.727	27.727	0.0	0.878	0.524	
-9	1	4	17.799	19.362	-19.362	0.0	-1.564	-0.766	
-7	1	4	75.992	76.521	76.521	0.0	-0.529	-0.378	
-5	1	4	11.233	12.849	-12.849	0.0	-1.617	-0.649	
-3	1	4	131.860	136.226	136.226	0.0	-4.366	-2.094	
-1	1	4	73.208	72.708	-72.708	0.0	0.500	0.379	
1	1	4	5.584	5.274	5.274	0.0	0.310	0.077	
3	1	4	68.410	70.879	70.879	0.0	-2.468	-1.815	
0	12	0	213.091	218.344	218.344	0.0	-5.253	-1.625	*
5	1	4	12.788	10.741	10.741	0.0	2.047	0.979	
7	1	4	14.065	13.326	13.326	0.0	0.739	0.292	
9	1	4	24.774	22.816	-22.816	0.0	1.958	1.084	
-12	2	4	8.875	5.781	-5.781	0.0	3.094	0.875	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
-10	2	4	9.038	9.698	-9.698	0.0	-0.659	-0.183	
-8	2	4	3.439	5.677	5.677	0.0	-2.238	-0.430	
-6	2	4	8.809	12.521	-12.521	0.0	-3.712	-1.166	
-2	2	4	4.159	5.576	-5.576	0.0	-1.417	-0.306	
0	2	4	17.209	16.718	-16.718	0.0	0.491	0.305	
2	2	4	16.603	16.506	-16.506	0.0	0.097	0.054	
4	2	4	8.564	2.090	2.090	0.0	6.473	2.305	
6	2	4	9.464	12.216	12.216	0.0	-2.752	-0.800	
8	2	4	5.289	4.939	-4.939	0.0	0.350	0.069	
-11	3	4	16.079	16.437	-16.437	0.0	-0.358	-0.146	
-9	3	4	21.712	18.151	18.151	0.0	3.561	2.442	
-7	3	4	16.914	19.346	-19.346	0.0	-2.432	-1.405	
-5	3	4	36.596	37.624	37.624	0.0	-1.029	-0.856	
-3	3	4	76.810	78.056	-78.056	0.0	-1.246	-0.898	
0	12	0	213.615	218.344	218.344	0.0	-4.729	-1.459	*
-1	3	4	50.743	53.357	53.357	0.0	-2.614	-2.218	
1	3	4	14.753	13.838	-13.838	0.0	0.915	0.441	
3	3	4	42.441	42.196	-42.196	0.0	0.246	0.203	
5	3	4	15.555	18.607	18.607	0.0	-3.051	-1.253	
7	3	4	17.193	20.541	-20.541	0.0	-3.348	-1.416	
-12	4	4	11.904	14.111	14.111	0.0	-2.207	-0.672	
-10	4	4	11.658	4.085	-4.085	0.0	7.573	3.222	
-8	4	4	15.211	18.939	18.939	0.0	-3.727	-1.672	
-6	4	4	15.670	14.444	-14.444	0.0	1.226	0.874	
-4	4	4	22.560	22.798	22.798	0.0	-0.219	-0.144	
-2	4	4	38.774	38.405	38.405	0.0	0.369	0.349	
0	4	4	44.865	45.574	-45.574	0.0	-0.709	-0.590	
2	4	4	85.112	87.380	87.380	0.0	-2.268	-1.476	
4	4	4	15.015	15.781	-15.781	0.0	-0.766	-0.355	
6	4	4	19.829	19.004	19.004	0.0	0.825	0.419	
8	4	4	11.969	11.069	11.069	0.0	0.900	0.292	
-11	5	4	20.860	19.789	-19.789	0.0	1.071	0.572	
-7	5	4	5.338	2.451	-2.451	0.0	2.887	0.743	
-5	5	4	9.628	7.480	7.480	0.0	2.148	0.867	
0	12	0	213.500	218.344	218.344	0.0	-4.843	-1.495	*
-3	5	4	41.639	43.953	-43.953	0.0	-2.314	-1.904	
-1	5	4	8.514	6.767	6.767	0.0	1.747	0.653	
1	5	4	25.380	24.265	-24.265	0.0	1.114	0.762	
3	5	4	25.871	26.776	-26.776	0.0	-0.905	-0.644	
5	5	4	16.308	14.020	-14.020	0.0	2.288	1.157	
-12	6	4	9.104	4.903	-4.903	0.0	4.201	1.377	
-10	6	4	13.312	12.757	12.757	0.0	0.555	0.221	
-8	6	4	13.836	13.757	-13.757	0.0	0.079	0.036	
-6	6	4	2.161	6.866	6.866	0.0	-4.705	-0.794	
-2	6	4	9.350	7.375	7.375	0.0	1.974	0.710	
0	6	4	5.976	1.564	-1.564	0.0	4.413	1.206	
2	6	4	6.975	5.706	-5.706	0.0	1.269	0.365	
4	6	4	11.102	9.420	9.420	0.0	1.682	0.681	
6	6	4	23.169	22.911	22.911	0.0	0.258	0.134	
8	6	4	16.800	15.873	-15.873	0.0	0.927	0.462	
-11	7	4	8.269	15.751	-15.751	0.0	-7.482	-1.692	
-9	7	4	39.003	40.625	40.625	0.0	-1.622	-1.115	
-7	7	4	24.446	26.098	-26.098	0.0	-1.651	-0.927	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
0	12	0	214.172	218.344	218.344	0.0	-4.172	-1.284	*
-5	7	4	26.362	24.749	24.749	0.0	1.613	1.195	
-3	7	4	17.242	17.365	17.365	0.0	-0.123	-0.073	
-1	7	4	11.495	13.312	13.312	0.0	-1.817	-0.677	
1	7	4	24.004	24.985	-24.985	0.0	-0.981	-0.682	
3	7	4	36.399	35.155	35.155	0.0	1.244	1.001	
7	7	4	13.410	14.749	-14.749	0.0	-1.339	-0.430	
-12	8	4	34.451	37.312	37.312	0.0	-2.861	-1.630	
-10	8	4	50.334	49.359	-49.359	0.0	0.975	0.694	
-8	8	4	13.378	9.028	9.028	0.0	4.349	2.216	
-6	8	4	25.609	25.506	25.506	0.0	0.103	0.070	
-4	8	4	39.772	40.206	-40.206	0.0	-0.433	-0.359	
4	8	4	70.195	70.397	-70.397	0.0	-0.202	-0.142	
6	8	4	46.617	47.284	47.284	0.0	-0.667	-0.456	
8	8	4	3.651	1.829	-1.829	0.0	1.822	0.299	
-11	9	4	13.705	13.045	-13.045	0.0	0.660	0.232	
-9	9	4	35.843	35.219	35.219	0.0	0.624	0.426	
0	12	0	214.384	218.344	218.344	0.0	-3.959	-1.217	*
-7	9	4	49.810	48.650	-48.650	0.0	1.159	0.920	
-3	9	4	30.308	29.311	-29.311	0.0	0.998	0.795	
-1	9	4	51.889	51.945	-51.945	0.0	-0.056	-0.042	
3	9	4	15.113	15.569	-15.569	0.0	-0.455	-0.208	
5	9	4	5.534	1.862	-1.862	0.0	3.672	0.789	
7	9	4	46.142	45.210	-45.210	0.0	0.932	0.637	
-10	10	4	13.738	16.923	16.923	0.0	-3.185	-1.010	
-8	10	4	21.843	23.059	23.059	0.0	-1.216	-0.683	
-6	10	4	29.244	30.473	30.473	0.0	-1.229	-0.873	
-4	10	4	39.085	39.289	39.289	0.0	-0.204	-0.156	
-2	10	4	23.611	22.963	22.963	0.0	0.648	0.462	
2	10	4	12.248	12.379	12.379	0.0	-0.131	-0.058	
4	10	4	48.925	49.781	49.781	0.0	-0.856	-0.613	
6	10	4	29.801	28.482	28.482	0.0	1.319	0.901	
-11	11	4	33.272	32.971	32.971	0.0	0.301	0.183	
-9	11	4	32.633	32.215	-32.215	0.0	0.418	0.319	
-7	11	4	116.550	117.119	117.119	0.0	-0.569	-0.289	
0	12	0	213.156	218.344	218.344	0.0	-5.187	-1.604	*
-5	11	4	2.734	12.209	12.209	0.0	-9.474	-1.429	
-3	11	4	105.530	104.706	104.706	0.0	0.824	0.466	
-1	11	4	14.311	14.850	-14.850	0.0	-0.539	-0.238	
1	11	4	63.171	63.040	63.040	0.0	0.131	0.100	
3	11	4	54.443	56.626	56.626	0.0	-2.183	-1.571	
5	11	4	33.812	31.970	31.970	0.0	1.842	1.262	
7	11	4	48.107	50.538	50.538	0.0	-2.432	-1.570	
-10	12	4	44.095	44.304	44.304	0.0	-0.209	-0.145	
-8	12	4	32.813	31.793	-31.793	0.0	1.020	0.628	
-6	12	4	45.847	44.379	44.379	0.0	1.468	1.114	
-4	12	4	86.438	86.589	86.589	0.0	-0.151	-0.094	
-2	12	4	47.763	48.828	-48.828	0.0	-1.065	-0.848	
0	12	4	43.162	42.183	42.183	0.0	0.979	0.770	
2	12	4	23.169	20.424	-20.424	0.0	2.745	1.948	
4	12	4	113.750	113.395	113.395	0.0	0.355	0.183	
6	12	4	40.591	40.798	-40.798	0.0	-0.207	-0.139	
-9	13	4	38.937	43.327	-43.327	0.0	-4.390	-2.498	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
-7	13	4	42.621	43.347	43.347	0.0	-0.725	-0.520	
-5	13	4	20.467	20.812	-20.812	0.0	-0.344	-0.220	
-3	13	4	21.499	20.013	20.013	0.0	1.486	1.020	
0	12	0	213.336	218.344	218.344	0.0	-5.007	-1.547	*
-1	13	4	43.653	41.698	-41.698	0.0	1.955	1.480	
1	13	4	10.430	3.776	-3.776	0.0	6.654	2.621	
3	13	4	15.572	10.025	-10.025	0.0	5.546	2.944	
-10	14	4	13.558	6.275	-6.275	0.0	7.282	2.848	
-8	14	4	10.381	15.331	15.331	0.0	-4.950	-1.317	
-6	14	4	8.007	7.259	-7.259	0.0	0.748	0.195	
-4	14	4	6.910	4.205	4.205	0.0	2.704	0.761	
-2	14	4	20.435	20.157	20.157	0.0	0.278	0.160	
0	14	4	7.941	5.913	-5.913	0.0	2.029	0.621	
2	14	4	13.394	14.110	14.110	0.0	-0.716	-0.251	
4	14	4	3.534	1.854	1.854	0.0	3.681	0.702	
6	14	4	22.318	23.295	23.295	0.0	-0.977	-0.454	
-9	15	4	32.486	31.578	31.578	0.0	0.907	0.548	
-7	15	4	28.884	29.858	-29.858	0.0	-0.974	-0.609	
-5	15	4	22.727	21.110	21.110	0.0	1.617	0.865	
-3	15	4	20.811	19.813	-19.813	0.0	0.998	0.523	
-1	15	4	24.168	23.718	23.718	0.0	0.450	0.274	
1	15	4	22.563	20.078	-20.078	0.0	2.485	1.677	
3	15	4	6.288	1.418	1.418	0.0	4.870	1.113	
0	12	0	212.714	218.344	218.344	0.0	-5.629	-1.744	*
5	15	4	10.987	10.801	10.801	0.0	0.186	0.053	
-8	16	4	8.678	4.308	-4.308	0.0	4.370	1.177	
-6	16	4	13.132	15.650	15.650	0.0	-2.518	-0.764	
-4	16	4	21.843	23.567	-23.567	0.0	-1.724	-0.962	
-2	16	4	16.587	13.441	-13.441	0.0	3.146	1.592	
2	16	4	13.803	17.308	17.308	0.0	-3.505	-1.122	
4	16	4	44.030	43.829	-43.829	0.0	0.201	0.139	
-7	17	4	12.854	10.855	-10.855	0.0	1.998	0.714	
-5	17	4	6.304	3.540	-3.540	0.0	2.764	0.607	
-3	17	4	13.738	16.755	16.755	0.0	-3.017	-1.085	
-1	17	4	8.662	1.420	-1.420	0.0	7.242	2.282	
1	17	4	18.437	18.426	-18.426	0.0	0.011	0.005	
3	17	4	11.151	16.380	16.380	0.0	-5.230	-1.536	
-6	18	4	12.477	13.564	13.564	0.0	-1.087	-0.362	
-4	18	4	9.038	4.681	4.681	0.0	4.358	1.407	
-2	18	4	13.918	15.060	15.060	0.0	-1.142	-0.425	
0	18	4	15.031	11.799	11.799	0.0	3.233	1.421	
2	18	4	4.257	8.919	8.919	0.0	-4.661	-0.706	
-5	19	4	18.028	13.996	13.996	0.0	4.031	1.886	
0	12	0	213.648	218.344	218.344	0.0	-4.696	-1.449	*
-3	19	4	33.518	33.020	-33.020	0.0	0.498	0.343	
-1	19	4	12.149	8.966	8.966	0.0	3.183	1.302	
1	19	4	19.370	17.130	-17.130	0.0	2.240	1.102	
-4	20	4	9.710	9.930	-9.930	0.0	-0.221	-0.061	
-2	20	4	7.647	9.255	9.255	0.0	-1.608	-0.407	
0	20	4	37.513	39.295	-39.295	0.0	-1.782	-1.151	
-11	0	5	13.771	11.637	11.637	0.0	2.133	0.787	
-9	0	5	18.044	14.584	-14.584	0.0	3.460	1.967	
-5	0	5	8.416	6.570	-6.570	0.0	1.847	0.615	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
-3	0	5	13.427	13.324	-13.324	0.0	0.103	0.049	
-1	0	5	14.294	14.373	-14.373	0.0	-0.078	-0.033	
7	0	5	18.421	17.798	-17.798	0.0	0.623	0.284	
-12	1	5	10.840	5.519	-5.519	0.0	5.321	2.032	
-10	1	5	9.055	7.327	7.327	0.0	1.727	0.457	
0	12	0	214.532	218.344	218.344	0.0	-3.812	-1.172	*
-2	1	5	11.003	12.572	-12.572	0.0	-1.569	-0.573	
0	1	5	15.621	16.111	16.111	0.0	-0.490	-0.234	
2	1	5	12.788	10.633	-10.633	0.0	2.155	0.909	
5	1	5	16.701	16.004	-16.004	0.0	0.698	0.293	
-11	2	5	9.595	9.329	9.329	0.0	0.266	0.072	
-9	2	5	18.322	16.808	-16.808	0.0	1.514	0.793	
-7	2	5	33.910	34.783	34.783	0.0	-0.872	-0.639	
-5	2	5	48.991	49.040	-49.040	0.0	-0.049	-0.038	
-3	2	5	59.028	61.257	61.257	0.0	-2.228	-1.717	
-1	2	5	14.655	13.592	-13.592	0.0	1.062	0.558	
1	2	5	23.382	18.022	18.022	0.0	5.360	4.109	
3	2	5	15.375	11.282	11.282	0.0	4.093	2.080	
5	2	5	14.687	15.974	15.974	0.0	-1.286	-0.490	
7	2	5	25.265	25.359	25.359	0.0	-0.094	-0.047	
-12	3	5	21.656	20.753	-20.753	0.0	0.943	0.484	
-10	3	5	28.523	26.362	26.362	0.0	2.162	1.311	
-8	3	5	42.900	42.745	-42.745	0.0	0.155	0.121	
-6	3	5	3.668	1.772	1.772	0.0	1.896	0.366	
0	12	0	212.960	218.344	218.344	0.0	-5.384	-1.667	*
-2	3	5	37.284	38.494	-38.494	0.0	-1.211	-0.888	
0	3	5	11.757	11.938	11.938	0.0	-0.182	-0.069	
2	3	5	55.279	54.783	-54.783	0.0	0.495	0.375	
4	3	5	15.408	17.481	17.481	0.0	-2.073	-0.818	
6	3	5	33.632	34.283	-34.283	0.0	-0.651	-0.390	
-9	4	5	11.707	13.205	13.205	0.0	-1.497	-0.535	
-5	4	5	8.269	8.461	8.461	0.0	-0.192	-0.055	
-3	4	5	5.665	4.921	-4.921	0.0	0.745	0.179	
1	4	5	15.916	10.263	10.263	0.0	5.652	3.223	
3	4	5	25.134	23.208	23.208	0.0	1.926	1.200	
5	4	5	12.199	10.214	-10.214	0.0	1.984	0.727	
-8	5	5	76.286	76.118	76.118	0.0	0.168	0.110	
-6	5	5	26.084	23.865	23.865	0.0	2.219	1.510	
-4	5	5	7.876	12.208	12.208	0.0	-4.332	-1.155	
-2	5	5	64.759	66.440	66.440	0.0	-1.681	-1.235	
0	12	0	213.828	218.344	218.344	0.0	-4.516	-1.392	*
0	5	5	30.292	28.538	28.538	0.0	1.754	1.414	
2	5	5	103.484	104.595	104.595	0.0	-1.112	-0.616	
4	5	5	42.785	42.168	-42.168	0.0	0.617	0.484	
6	5	5	50.284	50.729	50.729	0.0	-0.444	-0.298	
-11	6	5	10.971	8.396	-8.396	0.0	2.575	0.893	
-9	6	5	106.185	105.752	105.752	0.0	0.434	0.230	
-7	6	5	10.332	10.317	-10.317	0.0	0.015	0.005	
-5	6	5	70.408	70.697	70.697	0.0	-0.289	-0.209	
-3	6	5	48.401	49.409	-49.409	0.0	-1.007	-0.835	
-1	6	5	146.039	144.446	144.446	0.0	1.593	0.682	
1	6	5	25.625	25.811	25.811	0.0	-0.186	-0.112	
3	6	5	35.974	36.975	36.975	0.0	-1.001	-0.647	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
5	6	5	38.855	40.463	40.463	0.0	-1.607	-0.949	
-10	7	5	15.378	15.195	-15.195	0.0	0.183	0.064	
-8	7	5	33.223	35.065	35.065	0.0	-1.842	-1.204	
-4	7	5	20.369	22.452	-22.452	0.0	-2.083	-1.091	
-2	7	5	11.904	9.347	9.347	0.0	2.557	1.066	
0	7	5	15.735	10.797	-10.797	0.0	4.938	2.861	
2	7	5	50.694	50.576	50.576	0.0	0.118	0.086	
0	12	0	214.024	218.344	218.344	0.0	-4.320	-1.331	*
4	7	5	64.628	62.293	-62.293	0.0	2.335	1.614	
6	7	5	12.592	9.507	9.507	0.0	3.085	1.147	
-11	8	5	11.511	2.928	-2.928	0.0	8.583	3.732	
-9	8	5	9.415	2.087	-2.087	0.0	7.329	2.087	
-5	8	5	7.205	10.868	-10.868	0.0	-3.663	-0.904	
-3	8	5	8.678	3.904	3.904	0.0	4.774	1.670	
-1	8	5	14.294	14.516	-14.516	0.0	-0.222	-0.110	
1	8	5	5.682	5.109	5.109	0.0	0.573	0.132	
3	8	5	11.691	15.535	15.535	0.0	-3.844	-1.178	
5	8	5	12.935	13.320	-13.320	0.0	-0.385	-0.145	
-10	9	5	28.229	27.527	27.527	0.0	0.701	0.367	
-8	9	5	21.679	26.492	-26.492	0.0	-4.813	-2.248	
-6	9	5	10.381	13.743	13.743	0.0	-3.362	-1.050	
-4	9	5	9.481	13.175	13.175	0.0	-3.694	-1.031	
-2	9	5	12.264	12.001	-12.001	0.0	0.263	0.110	
0	9	5	30.226	30.782	30.782	0.0	-0.556	-0.394	
2	9	5	34.516	33.590	-33.590	0.0	0.926	0.681	
4	9	5	36.121	37.505	37.505	0.0	-1.384	-0.806	
-9	10	5	18.241	17.320	-17.320	0.0	0.921	0.459	
0	12	0	213.533	218.344	218.344	0.0	-4.811	-1.486	*
-7	10	5	19.469	17.924	17.924	0.0	1.545	0.821	
-5	10	5	31.569	32.823	-32.823	0.0	-1.254	-0.816	
-3	10	5	30.406	31.453	31.453	0.0	-1.047	-0.732	
-1	10	5	21.106	19.514	-19.514	0.0	1.593	0.974	
1	10	5	11.413	7.879	7.879	0.0	3.533	1.310	
3	10	5	5.518	2.470	-2.470	0.0	3.048	0.674	
5	10	5	9.202	4.385	4.385	0.0	4.817	1.534	
-10	11	5	5.289	2.578	-2.578	0.0	2.711	0.547	
-6	11	5	12.510	9.787	-9.787	0.0	2.723	1.104	
-4	11	5	9.415	5.222	-5.222	0.0	4.193	1.528	
-2	11	5	7.794	10.582	-10.582	0.0	-2.788	-0.698	
0	11	5	4.994	6.166	-6.166	0.0	-1.172	-0.234	
2	11	5	15.768	15.365	-15.365	0.0	0.403	0.177	
4	11	5	8.072	5.546	-5.546	0.0	2.526	0.649	
-9	12	5	2.407	9.318	-9.318	0.0	-6.911	-0.934	
-7	12	5	16.505	14.641	14.641	0.0	1.864	0.826	
-5	12	5	12.068	6.582	6.582	0.0	5.485	2.066	
-3	12	5	8.760	5.643	5.643	0.0	3.117	0.959	
-1	12	5	6.271	2.676	2.676	0.0	3.595	0.825	
0	12	0	213.058	218.344	218.344	0.0	-5.286	-1.635	*
1	12	5	22.924	22.723	22.723	0.0	0.201	0.102	
3	12	5	3.078	10.815	10.815	0.0	-7.736	-1.097	
-8	13	5	11.888	13.649	-13.649	0.0	-1.762	-0.526	
-6	13	5	10.234	6.431	6.431	0.0	3.803	1.243	
-4	13	5	7.876	10.790	10.790	0.0	-2.914	-0.742	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
-2	13	5	19.501	17.242	-17.242	0.0	2.260	1.198	
2	13	5	14.475	10.638	-10.638	0.0	3.837	1.819	
4	13	5	12.297	9.043	9.043	0.0	3.254	1.247	
-7	14	5	18.535	20.962	20.962	0.0	-2.426	-1.016	
-5	14	5	64.088	63.603	-63.603	0.0	0.485	0.328	
-3	14	5	35.875	36.114	36.114	0.0	-0.239	-0.159	
-1	14	5	27.803	27.251	-27.251	0.0	0.552	0.328	
1	14	5	5.715	15.477	-15.477	0.0	-9.762	-1.636	
3	14	5	10.725	8.599	-8.599	0.0	2.126	0.636	
-8	15	5	21.728	25.550	-25.550	0.0	-3.822	-1.664	
-6	15	5	20.746	17.736	17.736	0.0	3.010	1.463	
-4	15	5	11.364	12.471	12.471	0.0	-1.107	-0.362	
-2	15	5	18.977	21.327	-21.327	0.0	-2.350	-1.020	
0	15	5	23.398	20.356	20.356	0.0	3.042	1.776	
0	12	0	214.073	218.344	218.344	0.0	-4.270	-1.315	*
2	15	5	11.855	14.361	-14.361	0.0	-2.506	-0.719	
-7	16	5	7.139	10.187	10.187	0.0	-3.048	-0.594	
-5	16	5	36.956	36.052	36.052	0.0	0.904	0.671	
-3	16	5	16.587	14.483	14.483	0.0	2.104	0.964	
-1	16	5	43.931	44.064	44.064	0.0	-0.132	-0.090	
1	16	5	30.194	28.673	28.673	0.0	1.520	0.928	
-4	17	5	8.482	3.774	-3.774	0.0	4.708	1.212	
-2	17	5	47.075	47.433	47.433	0.0	-0.357	-0.232	
0	17	5	10.348	4.645	4.645	0.0	5.704	1.950	
-3	18	5	57.080	55.634	-55.634	0.0	1.445	1.039	
-10	0	6	91.432	91.239	91.239	0.0	0.193	0.107	
-8	0	6	41.803	39.865	-39.865	0.0	1.938	1.385	
-6	0	6	32.912	34.489	34.489	0.0	-1.577	-0.995	
-4	0	6	91.285	90.513	90.513	0.0	0.772	0.461	
-2	0	6	38.593	39.403	39.403	0.0	-0.809	-0.604	
0	0	6	51.169	49.640	49.640	0.0	1.529	1.185	
2	0	6	19.239	19.044	-19.044	0.0	0.196	0.092	
4	0	6	108.625	108.004	108.004	0.0	0.621	0.317	
-9	1	6	27.836	26.421	-26.421	0.0	1.414	0.944	
-7	1	6	53.919	50.610	50.610	0.0	3.310	2.485	
0	12	0	212.600	218.344	218.344	0.0	-5.744	-1.780	*
-5	1	6	22.514	19.644	-19.644	0.0	2.870	1.877	
-3	1	6	71.276	72.609	72.609	0.0	-1.333	-0.886	
1	1	6	26.166	25.348	25.348	0.0	0.818	0.466	
3	1	6	19.027	18.058	-18.058	0.0	0.969	0.430	
-10	2	6	9.448	6.043	-6.043	0.0	3.404	0.899	
-8	2	6	3.864	1.332	1.332	0.0	2.533	0.439	
-6	2	6	2.849	9.456	-9.456	0.0	-6.607	-0.899	
-4	2	6	10.447	4.548	-4.548	0.0	5.898	2.417	
-2	2	6	4.044	0.389	0.389	0.0	3.656	0.668	
0	2	6	5.240	4.565	-4.565	0.0	0.675	0.138	
2	2	6	10.004	11.050	-11.050	0.0	-1.046	-0.275	
4	2	6	16.407	12.790	-12.790	0.0	3.617	1.723	
-9	3	6	21.925	20.471	20.471	0.0	1.453	0.741	
-7	3	6	27.263	27.287	-27.287	0.0	-0.024	-0.013	
-5	3	6	25.265	25.578	25.578	0.0	-0.313	-0.157	
-3	3	6	25.871	24.096	-24.096	0.0	1.774	1.257	
-1	3	6	18.159	20.736	20.736	0.0	-2.577	-1.105	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
1	3	6	21.843	23.914	-23.914	0.0	-2.071	-0.955	
3	3	6	11.200	12.084	12.084	0.0	-0.885	-0.300	
0	12	0	212.731	218.344	218.344	0.0	-5.613	-1.739	*
-10	4	6	35.777	35.284	-35.284	0.0	0.494	0.291	
-6	4	6	17.045	20.122	20.122	0.0	-3.077	-1.324	
-4	4	6	12.477	3.432	-3.432	0.0	9.045	4.735	
0	4	6	11.544	8.426	8.426	0.0	3.118	1.160	
2	4	6	40.247	39.510	39.510	0.0	0.737	0.491	
4	4	6	26.280	28.931	-28.931	0.0	-2.650	-1.250	
-9	5	6	22.678	21.521	21.521	0.0	1.157	0.554	
-7	5	6	23.726	24.317	-24.317	0.0	-0.592	-0.366	
-5	5	6	3.177	2.538	-2.538	0.0	0.639	0.106	
-3	5	6	5.010	4.567	4.567	0.0	0.444	0.090	
1	5	6	30.390	29.834	-29.834	0.0	0.556	0.312	
3	5	6	6.615	9.930	9.930	0.0	-3.314	-0.687	
-8	6	6	5.747	5.440	-5.440	0.0	0.308	0.062	
-6	6	6	3.799	1.697	1.697	0.0	2.102	0.370	
-2	6	6	9.235	4.210	4.210	0.0	5.025	1.701	
0	6	6	14.589	7.935	7.935	0.0	6.655	3.355	
0	12	0	213.975	218.344	218.344	0.0	-4.369	-1.346	*
2	6	6	7.548	11.662	-11.662	0.0	-4.114	-1.032	
-5	7	6	22.809	24.058	24.058	0.0	-1.249	-0.742	
-3	7	6	17.733	19.453	-19.453	0.0	-1.720	-0.737	
-1	7	6	30.898	30.502	30.502	0.0	0.396	0.267	
-8	8	6	19.616	15.311	15.311	0.0	4.305	2.749	
-6	8	6	28.605	26.486	-26.486	0.0	2.119	1.331	
-4	8	6	10.463	13.794	13.794	0.0	-3.331	-0.914	
-2	8	6	13.492	6.475	6.475	0.0	7.017	3.154	
0	8	6	43.244	43.587	-43.587	0.0	-0.343	-0.214	
2	8	6	44.701	45.119	45.119	0.0	-0.418	-0.274	
-7	9	6	8.596	7.223	-7.223	0.0	1.373	0.356	
-5	9	6	16.325	20.784	20.784	0.0	-4.459	-1.554	
-3	9	6	50.088	52.161	-52.161	0.0	-2.073	-1.312	
-1	9	6	20.304	20.808	20.808	0.0	-0.504	-0.229	
1	9	6	17.700	15.547	-15.547	0.0	2.153	0.572	
-8	10	6	16.456	8.898	8.898	0.0	7.558	4.179	
0	12	0	213.189	218.344	218.344	0.0	-5.155	-1.593	*
-6	10	6	8.334	15.043	15.043	0.0	-6.709	-1.593	
-4	10	6	24.332	22.754	22.754	0.0	1.577	0.923	
-2	10	6	22.252	21.693	21.693	0.0	0.559	0.270	
0	10	6	25.216	24.531	24.531	0.0	0.685	0.357	
2	10	6	10.840	3.481	3.481	0.0	7.359	2.413	
-7	11	6	45.913	43.040	43.040	0.0	2.872	1.937	
-5	11	6	9.104	14.152	-14.152	0.0	-5.048	-1.186	
-3	11	6	109.869	109.445	109.445	0.0	0.424	0.218	
-1	11	6	5.191	8.980	-8.980	0.0	-3.790	-0.685	
1	11	6	25.298	27.714	27.714	0.0	-2.416	-1.160	
-6	12	6	39.559	40.161	40.161	0.0	-0.601	-0.381	
-4	12	6	32.289	28.960	28.960	0.0	3.329	2.223	
0	12	6	50.432	48.753	48.753	0.0	1.679	1.317	
-5	13	6	32.830	31.744	-31.744	0.0	1.086	0.684	
-3	13	6	47.615	48.996	48.996	0.0	-1.381	-0.881	
-1	13	6	24.037	24.858	-24.858	0.0	-0.821	-0.434	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
0	12	0	212.960	218.344	218.344	0.0	-5.384	-1.667	*
-5	0	7	9.153	1.162	-1.162	0.0	7.992	2.583	
-1	0	7	16.014	13.670	-13.670	0.0	2.343	0.984	
-7	2	7	20.975	23.592	23.592	0.0	-2.617	-1.116	
-5	2	7	34.336	34.730	-34.730	0.0	-0.393	-0.237	
-3	2	7	36.039	33.636	33.636	0.0	2.403	1.822	
-1	2	7	11.429	8.097	-8.097	0.0	3.332	1.152	
-6	3	7	7.925	6.681	6.681	0.0	1.244	0.302	
-4	3	7	5.109	8.835	-8.835	0.0	-3.726	-0.633	
-2	3	7	14.000	13.927	-13.927	0.0	0.073	0.023	
-3	4	7	10.905	9.530	9.530	0.0	1.375	0.437	
-6	5	7	19.943	18.711	18.711	0.0	1.232	0.565	
-4	5	7	26.706	25.610	25.610	0.0	1.096	0.601	
-2	5	7	19.682	18.892	18.892	0.0	0.790	0.380	
0	12	0	213.975	218.344	218.344	0.0	-4.369	-1.346	*
-5	6	7	75.566	76.700	76.700	0.0	-1.134	-0.701	

K-RICHTERITE 4CCC 1/19/73

RESULTS OF STRUCTURE FACTOR CALCULATIONS

ALL REFLECTIONS	NUMERATOR	DENOMINATOR	NUMBER	R
WEIGHTED R	2525.04	1280058.00	1341	0.044
UNWEIGHTED R	2877.29	57003.69	1341	0.050
RANGES OF F(OBS)				
	2052.09	15393.93	856	0.133
	288.79	12059.66	244	0.024
	95.65	6436.04	75	0.015
	62.28	3862.62	32	0.016
	41.05	2122.90	14	0.019
	14.40	765.50	4	0.019
	319.36	16085.41	75	0.020
	3.70	278.23	1	0.013
RANGES OF (SIN(THETA)/LAMBDA)**2				
	212.19	5443.54	84	0.039
	495.06	20863.98	193	0.024
	251.28	5776.36	142	0.044
	246.36	5499.59	155	0.045
	293.24	4910.48	166	0.060
	393.97	4727.74	189	0.083
	445.32	4835.75	197	0.092
	539.56	4947.87	215	0.109
UNREJECTED REFLECTIONS				
WEIGHTED R	1769.57	872174.94	1156	0.045
UNWEIGHTED R	2291.12	37862.79	1156	0.061
RANGES OF F(OBS)				
	1832.27	14012.61	821	0.131
	247.09	10699.46	217	0.023
	84.80	5756.13	67	0.015
	52.00	3341.89	28	0.016
	41.05	2122.90	14	0.019
	14.40	765.50	4	0.019
	15.85	886.63	4	0.018
	3.70	278.23	1	0.013
RANGES OF (SIN(THETA)/LAMBDA)**2				
	154.07	4637.98	69	0.033
	170.37	5013.25	107	0.034
	236.60	5389.13	130	0.044
	217.01	4885.73	138	0.044
	273.43	4544.77	154	0.060
	364.22	4361.63	175	0.084
	390.25	4421.68	182	0.088
	485.27	4610.32	201	0.105

SUM FCAL	56966.46
STANDARD DEV OF UNIT WEIGHT OBS	1.30

K-RICHTERITE 4COC 1/15/73

ATOM		PARAMETER	OLD	CHANGE	NEW	ERROR	SHIFT/ERROR
		EXTINCTION CORRECTION	0.0		0.0		
		SCALE FACTOR 1	0.6107	0.0000	0.6107	0.0C169	0.00
ATOM 1	O(1)	EQUIPOINT FRACTION = 1.000					
		OCCUPANCY SPECIES 1	1.CCCCC		1.CCCCC		
		X	0.1111833	0.0000008	0.1111841	C.0002549	0.00
		Y	0.9147156	0.0000000	C.9147156	C.0001317	0.00
		Z	0.8918C67	-0.0000083	C.8917983	C.0004791	-0.02
		BETA11	0.00238C8	0.C000005	C.0023813	C.0002555	0.00
		BETA22	0.0009059	0.C000006	0.0009065	C.0000764	0.01
		BETA33	0.0098326	-C.C000091	0.C098235	C.CCC9859	-0.01
		BETA12	0.0002149	-0.0000012	0.C002137	C.0001077	-0.01
		BETA13	0.0004958	0.C000011	C.0004969	C.CCC3941	0.00
		BETA23	-0.0003448	-C.C000001	-C.0003449	C.CCC1997	-0.00
ATOM 2	O(2)	EQUIPOINT FRACTION = 1.000					
		OCCUPANCY SPECIES 1	1.CCCCC		1.CCCCC		
		X	0.1180299	0.C000019	0.1180317	C.CCC2539	0.01
		Y	0.8309991	-0.C000002	C.8309988	C.0001422	-0.00
		Z	0.3923984	0.C000074	0.3924057	C.0004916	0.02
		BETA11	0.0025888	0.C000101	C.0025989	C.CCC2604	0.04
		BETA22	0.0011647	-0.C000001	0.0011646	C.CCCC788	-0.00
		BETA33	0.0096594	-0.C000064	0.C096530	C.CCC9772	-0.01
		BETA12	0.0000453	-0.C000005	0.C000448	C.CCC1122	-0.00
		BETA13	0.0009107	0.C000089	0.C009196	C.0003926	0.02
		BETA23	-0.0006012	-0.C000006	-0.C006018	C.CCC2CE7	-0.00
ATOM 3	F(3)	EQUIPOINT FRACTION = 0.500					
		OCCUPANCY SPECIES 2	1.CCCCC		1.CCCCC		
		X	0.1018507	-0.C000008	0.1018499	C.CCC3284	-0.00
		Y	0.0		0.C		
		Z	0.3877462	0.C000000	C.3877462	C.CCC6134	0.00
		BETA11	0.0038713	-0.C000117	C.0038596	C.CCC3431	-0.03
		BETA22	0.0013885	0.C000004	0.C013889	C.CCCC994	0.00
		BETA33	0.0130330	0.C000285	0.C130615	C.CC12719	0.02
		BETA12	0.0		0.C		
		BETA13	0.0007323	-0.C000074	C.C007249	C.CCC5195	-0.01
		BETA23	0.0		0.C		
ATOM 4	O(4)	EQUIPOINT FRACTION = 1.000					
		OCCUPANCY SPECIES 1	1.CCCCC		1.CCCCC		
		X	0.3607675	0.C000039	0.3607714	C.CCC2944	0.01
		Y	0.7522150	0.C000001	0.7522150	C.CCC1493	0.00
		Z	0.5605437	-0.C000032	C.5605404	C.CCC5807	-0.01
		BETA11	0.0044627	-0.C000066	C.0044560	C.CCC3C59	-0.02
		BETA22	0.0010121	-0.C000000	0.C010121	C.CCCC771	-0.00
		BETA33	0.0166145	0.C000221	0.C166366	C.0011514	0.02
		BETA12	0.0011405	-0.C000001	0.C011404	C.CCC1244	-0.00
		BETA13	0.0015377	-0.C000001	C.C015377	C.CCC4680	-0.00
		BETA23	0.0006663	0.C000012	C.0006675	C.CCC2260	0.01
ATOM 5	O(5)	EQUIPOINT FRACTION = 1.000					
		OCCUPANCY SPECIES 1	1.CCCCC		1.CCCCC		
		X	0.3436797	-0.C000003	0.3436793	C.CCC2692	-0.00
		Y	0.8707591	0.C000000	0.8707591	C.CCC1434	0.00
		Z	0.2505843	0.C000038	0.2505881	C.CCC5C21	0.01
		BETA11	0.0034843	-0.C000001	C.C034842	C.CCC2796	-0.00

	BETA22	0.0011744	-0.0000004	0.0011740	0.0000776	-0.01
	BETA33	0.0104220	0.0000058	0.0104278	0.0009805	0.01
	BETA12	-0.0000302	-0.0000002	-0.0000304	0.0001169	-0.00
	BETA13	0.0011476	0.0000001	0.0011478	0.0004121	0.00
	BETA23	0.0011214	-0.0000002	0.0011212	0.0002177	-0.00
ATOM 6 O(6)	EQUIPOINT FRACTION = 1.000					
	OCCUPANCY SPECIES 1	1.00000		1.00000		
	X	0.3403810	0.0000056	0.3403866	0.0002711	0.02
	Y	0.8820383	0.0000003	0.8820386	0.0001486	0.00
	Z	0.7502497	0.0000085	0.7502582	0.0004998	0.02
	BETA11	0.0035100	-0.0000054	0.0035046	0.0002833	-0.02
	BETA22	0.0014322	0.0000004	0.0014326	0.0000838	0.00
	BETA33	0.0101775	-0.0000051	0.0101724	0.0009751	-0.01
	BETA12	-0.0000234	0.0000005	-0.0000229	0.0001154	0.00
	BETA13	0.0016805	-0.0000050	0.0016756	0.0004143	-0.01
	BETA23	-0.0014274	0.0000001	-0.0014273	0.0002260	0.00
ATOM 7 O(7)	EQUIPOINT FRACTION = 0.500					
	OCCUPANCY SPECIES 1	1.00000		1.00000		
	X	0.3343318	0.0000025	0.3343343	0.0004090	0.01
	Y	0.0		0.0		
	Z	0.0297128	-0.0000018	0.0297110	0.0008164	-0.00
	BETA11	0.0044380	-0.0000111	0.0044268	0.0004197	-0.03
	BETA22	0.0005448	0.0000010	0.0005458	0.0001002	0.01
	BETA33	0.0198772	-0.0000167	0.0198605	0.0016317	-0.01
	BETA12	0.0		0.0		
	BETA13	0.0004159	-0.0000090	0.0004069	0.0006414	-0.01
	BETA23	0.0		0.0		
ATOM 8 T(1)	EQUIPOINT FRACTION = 1.000					
	OCCUPANCY SPECIES 3	1.00000		1.00000		
	X	0.2761747	0.0000023	0.2761770	0.0001060	0.02
	Y	0.9155470	0.0000004	0.9155473	0.0000482	0.01
	Z	0.9770015	0.0000008	0.9770023	0.0001990	0.00
	BETA11	0.0021535	-0.0000019	0.0021516	0.0000961	-0.02
	BETA22	0.0006101	-0.0000000	0.0006101	0.0000272	-0.00
	BETA33	0.0073681	0.0000073	0.0073754	0.0003479	0.02
	BETA12	0.0000654	-0.0000001	0.0000653	0.0000410	-0.00
	BETA13	0.0012482	0.0000010	0.0012492	0.0001399	0.01
	BETA23	0.0000038	0.0000003	0.0000041	0.0000748	0.00
ATOM 9 T(2)	EQUIPOINT FRACTION = 1.000					
	OCCUPANCY SPECIES 3	1.00000		1.00000		
	X	0.2854219	-0.0000012	0.2854207	0.0001030	-0.01
	Y	0.8288965	0.0000001	0.8288966	0.0000489	0.00
	Z	0.4806901	-0.0000005	0.4806896	0.0001984	-0.00
	BETA11	0.0020997	0.0000028	0.0021025	0.0000962	0.03
	BETA22	0.0006513	-0.0000001	0.0006511	0.0000266	-0.00
	BETA33	0.0070307	-0.0000009	0.0070298	0.0003426	-0.00
	BETA12	0.0001543	0.0000003	0.0001546	0.0000411	0.01
	BETA13	0.0006437	0.0000012	0.0006449	0.0001380	0.01
	BETA23	0.0000755	0.0000004	0.0000759	0.0000746	0.01
ATOM 10 M(1)	EQUIPOINT FRACTION = 0.500					
	OCCUPANCY SPECIES 4	1.00000		1.00000		
	X	0.0		0.0		
	Y	0.9102096	-0.0000002	0.9102094	0.0000936	-0.00
	Z	0.5000000		0.5000000		
	BETA11	0.0030146	-0.0000023	0.0030123	0.0001834	-0.01
	BETA22	0.0007701	-0.0000001	0.0007700	0.0000509	-0.00

	BETA33	0.0086871	0.0000122	C.0086992	C.0006548	0.02
	BETA12	0.0		0.0		
	BETA13	0.0012404	0.0000012	C.0012416	C.0002656	0.00
	BETA23	0.0		0.0		
ATOM 11 M(2)	EQUIPOINT FRACTION = 0.500					
	OCCUPANCY SPECIES 4	1.00000		1.00000		
	X	0.0		0.0		
	Y	0.8201564	-0.0000002	C.8201562	C.0000931	-0.00
	Z	0.0		0.0		
	BETA11	0.0029367	0.0000050	0.0029417	C.0001845	0.03
	BETA22	0.0008500	0.0000005	0.0008505	C.0000528	0.01
	BETA33	0.0107502	-0.0000209	C.0107293	C.0006875	-0.03
	BETA12	0.0		0.0		
	BETA13	0.0005623	0.0000009	C.0005631	C.0002747	0.00
	BETA23	0.0		0.0		
ATOM 12 M(3)	EQUIPOINT FRACTION = 0.250					
	OCCUPANCY SPECIES 4	1.00000		1.00000		
	X	0.0		0.0		
	Y	0.0		0.0		
	Z	0.0		0.0		
	BETA11	0.0032770	0.0000018	C.0032787	C.0002597	0.01
	BETA22	0.0006645	0.0000001	0.0006646	C.0000689	0.00
	BETA33	0.0083775	-0.0000132	C.0083644	C.0009106	-0.01
	BETA12	0.0		0.0		
	BETA13	0.0012677	0.0000005	C.0012682	C.0003809	0.00
	BETA23	0.0		0.0		
ATOM 13 M(4)	EQUIPOINT FRACTION = 0.500					
	OCCUPANCY SPECIES 5	0.50000		0.50000		
	OCCUPANCY SPECIES 6	0.50000		0.50000		
	TOTAL OCCUPANCY (FIXED) =	1.00000				
	X	0.0		0.0		
	Y	0.7221957	0.0000009	C.7221966	C.0000865	0.01
	Z	0.5000000		C.5000000		
	BETA11	0.0067588	0.0000047	C.0067635	C.0001954	0.02
	BETA22	0.0010529	0.0000000	0.0010529	C.0000448	0.00
	BETA33	0.0135702	-0.0000205	0.0135497	C.0005901	-0.03
	BETA12	0.0		0.0		
	BETA13	-0.0018457	-0.0000018	-0.0018474	C.0002636	-0.01
	BETA23	0.0		0.0		
ATOM 14 A	EQUIPOINT FRACTION = 0.500					
	OCCUPANCY SPECIES 7	0.50000		0.50000		
	X	0.4807048	0.0015101	C.4822149	C.0037013	0.41
	Y	0.0		0.0		
	Z	0.5223573	0.0029569	0.5253143	C.0008161	0.34
	BETA11	0.0180053	0.0013781	C.0193834	C.0034837	0.40
	BETA22	0.0030230	-0.0000031	0.0030198	C.0001070	-0.03
	BETA33	0.0406162	-0.0030441	0.0375722	C.0092046	-0.33
	BETA12	0.0		0.0		
	BETA13	-0.0150404	0.0004607	-0.0145797	C.0036493	0.13
	BETA23	0.0		0.0		

MAXIMUM SHIFT/ERROR = 0.41

AVERAGE SHIFT/ERROR = 0.02

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
-3	4	7	6.200	0.491	0.491	0.0	5.709	1.256	
-1	4	7	9.217	2.147	-2.147	0.0	7.070	2.578	
-6	5	7	13.718	17.218	17.218	0.0	-3.500	-1.160	
-4	5	7	21.814	21.476	21.476	0.0	0.339	0.146	
-2	5	7	16.159	16.583	16.583	0.0	-0.424	-0.154	
-5	6	7	70.538	69.690	69.690	0.0	0.848	0.542	
-3	6	7	47.981	46.343	-46.343	0.0	1.638	1.152	
-4	7	7	6.678	6.119	6.119	0.0	0.559	0.110	
0	12	0	206.156	210.970	210.970	0.0	-4.814	-1.537	*
4	0	0	26.612	39.826	39.826	0.0	-13.213	-15.276	*
6	0	0	95.600	93.788	93.788	0.0	1.813	1.156	
8	0	0	108.313	111.475	111.475	0.0	-3.162	-1.781	
10	0	0	59.672	58.032	58.032	0.0	1.640	1.154	
12	0	0	4.238	3.601	-3.601	0.0	0.636	0.108	
-13	1	0	30.075	31.081	-31.081	0.0	-1.006	-0.377	*
-11	1	0	58.511	57.616	57.616	0.0	0.901	0.603	*
-9	1	0	20.264	22.741	22.741	0.0	-2.477	-1.371	*
-7	1	0	73.275	73.728	73.728	0.0	-0.453	-0.339	*
-5	1	0	119.591	116.565	-116.565	0.0	3.026	1.624	*
-3	1	0	137.761	137.833	137.833	0.0	-0.072	-0.034	*
3	1	0	138.635	137.833	137.833	0.0	0.802	0.381	
5	1	0	118.519	116.565	-116.565	0.0	1.954	1.055	
7	1	0	73.093	73.728	73.728	0.0	-0.635	-0.482	
9	1	0	19.555	22.741	22.741	0.0	-3.186	-1.787	
11	1	0	56.572	57.616	57.616	0.0	-1.044	-0.754	
13	1	0	32.268	31.081	-31.081	0.0	1.187	0.746	
-12	2	0	14.345	14.681	14.681	0.0	-0.336	-0.090	*
-10	2	0	3.199	4.769	-4.769	0.0	-1.571	-0.250	*
-8	2	0	13.982	11.504	-11.504	0.0	2.478	1.185	*
0	12	0	205.331	210.970	210.970	0.0	-5.639	-1.806	*
-6	2	0	29.960	31.211	-31.211	0.0	-1.251	-1.019	*
6	2	0	30.256	31.211	-31.211	0.0	-0.954	-0.837	
8	2	0	11.542	11.504	-11.504	0.0	0.038	0.016	
10	2	0	5.606	4.769	-4.769	0.0	0.837	0.205	
12	2	0	17.709	14.681	14.681	0.0	3.027	1.456	
-13	3	0	11.806	18.857	18.857	0.0	-7.051	-1.274	*
-11	3	0	21.758	19.582	-19.582	0.0	2.216	0.951	*
-9	3	0	16.076	17.120	17.120	0.0	-1.044	-0.460	*
-7	3	0	54.956	54.037	-54.037	0.0	0.919	0.780	*
-5	3	0	57.314	57.045	57.045	0.0	0.269	0.251	*
-3	3	0	86.136	90.062	-90.062	0.0	-3.926	-2.886	*
3	3	0	87.801	90.062	-90.062	0.0	-2.261	-1.631	
5	3	0	58.485	57.045	57.045	0.0	1.439	1.350	
7	3	0	52.829	54.037	-54.037	0.0	-1.208	-1.003	
9	3	0	17.049	17.120	17.120	0.0	-0.071	-0.035	
11	3	0	18.731	19.582	-19.582	0.0	-0.851	-0.369	
13	3	0	22.309	18.857	18.857	0.0	3.452	1.741	
-12	4	0	7.024	10.118	10.118	0.0	-3.094	-0.493	*
0	12	0	206.040	210.970	210.970	0.0	-4.930	-1.574	*
-10	4	0	12.333	2.398	2.398	0.0	9.936	4.059	*
-8	4	0	10.124	5.638	5.638	0.0	4.486	1.625	*
-6	4	0	13.999	15.889	15.889	0.0	-1.891	-0.975	*
-4	4	0	12.201	9.953	9.953	0.0	2.248	1.801	*

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
-2	4	0	137.135	142.601	142.601	0.0	-5.466	-2.626	*
2	4	0	139.427	142.601	142.601	0.0	-3.174	-1.501	
4	4	0	9.794	9.953	9.953	0.0	-0.159	-0.091	
6	4	0	16.010	15.889	15.889	0.0	0.121	0.073	
10	4	0	3.941	2.398	2.398	0.0	1.543	0.295	
12	4	0	6.595	10.118	10.118	0.0	-3.523	-0.629	
-13	5	0	23.958	21.293	21.293	0.0	2.665	0.909	*
-11	5	0	15.648	19.211	-19.211	0.0	-3.563	-1.033	*
-7	5	0	13.422	5.160	-5.160	0.0	8.261	4.458	*
-5	5	0	13.603	16.712	-16.712	0.0	-3.109	-1.810	*
-3	5	0	79.343	81.710	-81.710	0.0	-2.367	-1.841	*
-1	5	0	12.861	17.384	-17.384	0.0	-4.523	-3.589	*
1	5	0	13.075	17.384	-17.384	0.0	-4.309	-3.466	
3	5	0	81.354	81.710	-81.710	0.0	-0.355	-0.270	
0	12	0	206.914	210.970	210.970	0.0	-4.056	-1.290	*
5	5	0	13.191	16.712	-16.712	0.0	-3.522	-1.974	
7	5	0	6.299	5.160	-5.160	0.0	1.138	0.311	
11	5	0	21.567	19.211	-19.211	0.0	2.356	1.231	
13	5	0	20.759	21.293	21.293	0.0	-0.534	-0.211	
-10	6	0	28.195	25.272	25.272	0.0	2.923	2.137	*
-8	6	0	25.903	26.223	-26.223	0.0	-0.320	-0.224	*
-6	6	0	17.939	17.435	17.435	0.0	0.504	0.310	*
-2	6	0	19.852	21.343	21.343	0.0	-1.491	-1.659	*
0	6	0	14.147	15.097	15.097	0.0	-0.950	-0.873	
2	6	0	19.407	21.343	21.343	0.0	-1.937	-2.026	
6	6	0	14.823	17.435	17.435	0.0	-2.612	-1.299	
8	6	0	22.193	26.223	-26.223	0.0	-4.030	-2.344	
10	6	0	24.683	25.272	25.272	0.0	-0.589	-0.369	
12	6	0	6.101	11.631	-11.631	0.0	-5.530	-1.039	
-11	7	0	18.434	17.631	-17.631	0.0	0.803	0.303	*
-9	7	0	48.245	48.964	48.964	0.0	-0.719	-0.540	*
0	12	0	205.859	210.970	210.970	0.0	-5.111	-1.633	*
-7	7	0	32.647	32.420	-32.420	0.0	0.227	0.181	*
-5	7	0	11.954	6.521	6.521	0.0	5.433	2.857	*
-3	7	0	57.034	53.705	53.705	0.0	3.329	3.220	*
-1	7	0	18.401	16.815	-16.815	0.0	1.586	1.901	*
1	7	0	15.334	16.815	-16.815	0.0	-1.481	-1.271	
3	7	0	56.803	53.705	53.705	0.0	3.098	3.014	
5	7	0	10.800	6.521	6.521	0.0	4.279	1.925	
7	7	0	35.318	32.420	-32.420	0.0	2.898	2.424	
9	7	0	47.619	48.964	48.964	0.0	-1.346	-1.028	
11	7	0	18.319	17.631	-17.631	0.0	0.687	0.308	
-12	8	0	34.098	31.806	31.806	0.0	2.292	1.029	*
-10	8	0	41.749	44.023	-44.023	0.0	-2.274	-1.461	*
-8	8	0	15.878	14.550	-14.550	0.0	1.328	0.696	*
-6	8	0	69.697	71.977	71.977	0.0	-2.280	-1.747	*
-4	8	0	99.788	101.253	-101.253	0.0	-1.465	-0.906	*
-2	8	0	31.229	33.498	33.498	0.0	-2.269	-2.684	*
0	8	0	45.854	43.166	43.166	0.0	2.689	2.990	
2	8	0	32.581	33.498	33.498	0.0	-0.917	-1.174	
4	8	0	102.031	101.253	-101.253	0.0	0.777	0.475	
6	8	0	72.170	71.977	71.977	0.0	0.193	0.146	
0	12	0	206.469	210.970	210.970	0.0	-4.501	-1.435	*

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
8	8	0	14.197	14.550	-14.550	0.0	-0.353	-0.170	
10	8	0	44.535	44.023	-44.023	0.0	0.512	0.384	
12	8	0	28.772	31.806	31.806	0.0	-3.033	-1.396	
-11	9	0	19.011	14.151	-14.151	0.0	4.860	1.828	*
-9	9	0	32.070	33.283	33.283	0.0	-1.213	-0.832	*
-7	9	0	89.120	90.517	-90.517	0.0	-1.397	-0.885	*
-5	9	0	10.124	8.245	8.245	0.0	1.879	0.851	*
-1	9	0	80.728	81.501	-81.501	0.0	-0.774	-0.582	*
1	9	0	81.766	81.501	-81.501	0.0	0.265	0.199	
5	9	0	10.074	8.245	8.245	0.0	1.829	0.778	
7	9	0	89.928	90.517	-90.517	0.0	-0.589	-0.373	
9	9	0	31.938	33.283	33.283	0.0	-1.344	-0.689	
11	9	0	14.114	14.151	-14.151	0.0	-0.037	-0.012	
-12	10	0	27.157	21.889	21.889	0.0	5.268	2.377	*
-10	10	0	23.150	24.053	24.053	0.0	-0.903	-0.375	*
-8	10	0	25.953	29.176	29.176	0.0	-3.223	-1.645	*
-6	10	0	17.033	17.075	17.075	0.0	-0.043	-0.022	*
-4	10	0	63.035	65.222	65.222	0.0	-2.187	-1.818	*
0	12	0	205.908	210.970	210.970	0.0	-5.061	-1.617	*
-2	10	0	45.080	47.907	47.907	0.0	-2.828	-2.783	*
0	10	0	105.361	106.890	106.890	0.0	-1.528	-0.913	
2	10	0	43.513	47.907	47.907	0.0	-4.394	-4.166	
4	10	0	63.580	65.222	65.222	0.0	-1.643	-1.331	
6	10	0	16.241	17.075	17.075	0.0	-0.834	-0.410	
8	10	0	32.416	29.176	29.176	0.0	3.240	2.607	
10	10	0	24.057	24.053	24.053	0.0	0.004	0.002	
12	10	0	23.546	21.889	21.889	0.0	1.657	0.773	
-11	11	0	59.342	61.056	61.056	0.0	-1.714	-1.004	*
-7	11	0	125.098	129.180	129.180	0.0	-4.082	-1.992	*
-5	11	0	41.798	41.444	-41.444	0.0	0.355	0.303	*
-3	11	0	75.699	79.062	79.062	0.0	-3.363	-2.462	*
-1	11	0	120.597	119.866	119.866	0.0	0.730	0.384	*
1	11	0	121.009	119.866	119.866	0.0	1.143	0.599	
3	11	0	78.386	79.062	79.062	0.0	-0.675	-0.492	
5	11	0	40.298	41.444	-41.444	0.0	-1.146	-1.007	
7	11	0	127.407	129.180	129.180	0.0	-1.773	-0.858	
9	11	0	2.968	3.667	3.667	0.0	-0.699	-0.117	
11	11	0	62.294	61.056	61.056	0.0	1.238	0.792	
0	12	0	206.485	210.970	210.970	0.0	-4.484	-1.429	*
-10	12	0	52.450	50.420	50.420	0.0	2.030	1.383	*
-8	12	0	49.878	51.446	51.446	0.0	-1.568	-1.145	*
-6	12	0	35.978	35.075	-35.075	0.0	0.903	0.703	*
-4	12	0	55.682	57.955	57.955	0.0	-2.273	-1.862	*
-2	12	0	40.446	42.004	-42.004	0.0	-1.558	-1.343	*
0	12	0	205.677	210.970	210.970	0.0	-5.292	-1.693	*
2	12	0	42.013	42.004	-42.004	0.0	0.008	0.007	
4	12	0	55.912	57.955	57.955	0.0	-2.042	-1.710	
6	12	0	35.417	35.075	-35.075	0.0	0.342	0.282	
8	12	0	50.785	51.446	51.446	0.0	-0.661	-0.492	
10	12	0	50.834	50.420	50.420	0.0	0.414	0.295	
-11	13	0	22.128	21.599	21.599	0.0	0.529	0.175	*
-9	13	0	25.277	25.682	-25.682	0.0	-0.405	-0.183	*
-7	13	0	36.835	38.883	38.883	0.0	-2.048	-1.421	*

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
-5	13	0	63.349	63.775	-63.775	0.0	-0.426	-0.327	*
-3	13	0	16.439	18.121	-18.121	0.0	-1.682	-0.885	*
-1	13	0	8.162	4.571	4.571	0.0	3.591	1.186	*
1	13	0	4.848	4.571	4.571	0.0	0.277	0.068	
3	13	0	19.654	18.121	-18.121	0.0	1.533	1.017	
5	13	0	63.662	63.775	-63.775	0.0	-0.113	-0.086	
0	12	0	206.848	210.970	210.970	0.0	-4.122	-1.312	*
7	13	0	39.721	38.883	38.883	0.0	0.837	0.661	
9	13	0	24.255	25.682	-25.682	0.0	-1.427	-0.682	
11	13	0	19.671	21.599	21.599	0.0	-1.928	-0.664	
-10	14	0	14.592	2.412	-2.412	0.0	12.180	3.316	*
-4	14	0	8.887	12.656	12.656	0.0	-3.769	-1.140	*
-2	14	0	34.461	33.425	33.425	0.0	1.036	0.856	*
0	14	0	13.257	8.289	-8.289	0.0	4.968	2.647	
2	14	0	35.203	33.425	33.425	0.0	1.777	1.547	
4	14	0	9.563	12.656	12.656	0.0	-3.093	-1.022	
6	14	0	6.398	1.825	-1.825	0.0	4.573	1.241	
8	14	0	1.814	0.992	0.992	0.0	0.822	0.109	
-9	15	0	32.647	32.447	32.447	0.0	0.200	0.108	*
-7	15	0	50.966	48.936	-48.936	0.0	2.030	1.454	*
-5	15	0	28.690	29.872	29.872	0.0	-1.182	-0.777	*
-1	15	0	9.926	10.795	-10.795	0.0	-0.869	-0.292	*
1	15	0	8.442	10.795	-10.795	0.0	-2.353	-0.729	
0	12	0	206.172	210.970	210.970	0.0	-4.798	-1.531	*
3	15	0	11.954	3.838	-3.838	0.0	8.117	4.767	
5	15	0	28.047	29.872	29.872	0.0	-1.826	-1.204	
7	15	0	48.427	48.936	-48.936	0.0	-0.509	-0.378	
9	15	0	34.164	32.447	32.447	0.0	1.717	1.141	
-10	16	0	23.628	22.847	-22.847	0.0	0.781	0.255	*
-8	16	0	8.904	9.959	-9.959	0.0	-1.055	-0.222	*
-6	16	0	32.449	33.275	33.275	0.0	-0.826	-0.527	*
-4	16	0	48.311	48.944	-48.944	0.0	-0.632	-0.498	*
0	16	0	5.722	5.303	5.303	0.0	0.418	0.106	
4	16	0	48.262	48.944	-48.944	0.0	-0.682	-0.528	
6	16	0	32.433	33.275	33.275	0.0	-0.842	-0.556	
8	16	0	12.548	9.959	-9.959	0.0	2.589	0.892	
10	16	0	19.127	22.847	-22.847	0.0	-3.720	-1.204	
-9	17	0	15.878	16.783	16.783	0.0	-0.904	-0.244	*
-3	17	0	25.293	26.499	26.499	0.0	-1.205	-0.736	*
-1	17	0	15.136	15.651	-15.651	0.0	-0.514	-0.238	*
0	12	0	206.353	210.970	210.970	0.0	-4.616	-1.472	*
1	17	0	19.094	15.651	-15.651	0.0	3.443	2.369	
3	17	0	23.694	26.499	26.499	0.0	-2.805	-1.580	
5	17	0	4.089	5.438	-5.438	0.0	-1.348	-0.246	
7	17	0	12.234	11.108	-11.108	0.0	1.126	0.405	
9	17	0	18.401	16.783	16.783	0.0	1.618	0.655	
-8	18	0	6.991	10.882	-10.882	0.0	-3.891	-0.616	*
-6	18	0	22.523	24.804	24.804	0.0	-2.281	-0.942	*
-4	18	0	10.750	4.832	4.832	0.0	5.919	2.064	*
-2	18	0	22.424	21.686	21.686	0.0	0.739	0.396	*
0	18	0	15.648	18.266	18.266	0.0	-2.618	-1.119	
2	18	0	22.012	21.686	21.686	0.0	0.327	0.187	
4	18	0	9.052	4.832	4.832	0.0	4.221	1.345	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
6	18	C	21.798	24.804	24.804	0.0	-3.006	-1.328	
8	18	C	11.855	10.882	-10.882	0.0	0.973	0.275	
-7	19	C	21.781	22.277	-22.277	0.0	-0.496	-0.175	*
-5	19	C	12.531	1.397	1.397	0.0	11.134	3.651	*
-3	19	C	28.245	28.908	-28.908	0.0	-0.663	-0.358	*
-1	19	C	4.386	7.321	-7.321	0.0	-2.935	-0.549	*
1	19	C	7.799	7.321	-7.321	0.0	0.478	0.129	
3	19	C	29.168	28.908	-28.908	0.0	0.260	0.166	
6	12	C	205.958	210.970	210.970	0.0	-5.012	-1.601	*
5	19	C	8.558	1.397	1.397	0.0	7.160	1.967	
7	19	C	21.880	22.277	-22.277	0.0	-0.397	-0.163	
-8	20	C	5.820	7.567	-7.567	0.0	-1.747	-0.231	*
-6	20	C	13.471	4.625	4.625	0.0	8.846	2.599	*
-4	20	C	29.993	30.514	-30.514	0.0	-0.521	-0.263	*
-2	20	C	30.487	29.557	29.557	0.0	0.930	0.556	*
0	20	C	51.131	50.803	-50.803	0.0	0.328	0.250	
2	20	C	28.476	29.557	29.557	0.0	-1.082	-0.589	
4	20	C	29.152	30.514	-30.514	0.0	-1.362	-0.656	
8	20	C	10.586	7.567	-7.567	0.0	3.018	0.665	
-7	21	C	8.480	4.078	-4.078	0.0	2.402	0.352	*
-5	21	C	37.050	35.895	35.895	0.0	1.154	0.634	*
-3	21	C	9.959	6.202	6.202	0.0	3.757	0.981	*
-1	21	C	27.997	23.960	23.960	0.0	4.037	2.441	*
1	21	C	24.617	23.960	23.960	0.0	0.657	0.367	
5	21	C	38.501	35.895	35.895	0.0	2.605	1.669	
0	12	C	207.030	210.970	210.970	0.0	-3.940	-1.253	*
-4	22	C	44.371	42.718	42.718	0.0	1.653	1.001	*
-2	22	C	20.363	16.849	16.849	0.0	3.514	1.545	*
0	22	C	59.177	58.756	58.756	0.0	0.421	0.285	
2	22	C	16.769	16.849	16.849	0.0	-0.080	-0.026	
4	22	C	42.260	42.718	42.718	0.0	-0.458	-0.258	
6	22	C	14.774	7.394	7.394	0.0	7.380	2.613	
-5	23	C	42.969	43.787	-43.787	0.0	-0.818	-0.403	*
-3	23	C	29.547	30.358	30.358	0.0	-0.811	-0.358	*
1	23	C	11.344	8.577	8.577	0.0	2.767	0.677	
3	23	C	29.795	30.358	30.358	0.0	-0.564	-0.268	
5	23	C	46.102	43.787	-43.787	0.0	2.315	1.287	
-2	24	C	38.088	40.592	-40.592	0.0	-2.504	-1.211	*
0	24	C	78.040	80.117	80.117	0.0	-2.077	-1.197	
2	24	C	40.545	40.592	-40.592	0.0	-0.047	-0.027	
-13	0	1	16.851	17.182	-17.182	0.0	-0.331	-0.103	
-9	0	1	7.997	8.792	-8.792	0.0	-0.795	-0.241	
0	12	C	206.040	210.970	210.970	0.0	-4.930	-1.574	*
-3	0	1	12.399	9.589	-9.589	0.0	2.811	1.826	
3	0	1	24.964	24.248	-24.248	0.0	0.715	0.764	
5	0	1	9.168	4.255	4.255	0.0	4.912	2.749	
7	0	1	6.678	0.090	0.090	0.0	6.588	2.013	
9	0	1	10.421	4.170	-4.170	0.0	6.250	2.859	
11	0	1	7.172	1.056	-1.056	0.0	6.117	1.495	
-12	1	1	12.894	8.060	8.060	0.0	4.834	1.524	
-10	1	1	9.811	7.432	-7.432	0.0	2.379	0.826	
-8	1	1	6.183	9.223	9.223	0.0	-3.040	-0.795	
-4	1	1	19.522	20.542	20.542	0.0	-1.020	-1.117	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
2	1	1	65.327	66.786	-66.786	0.0	-1.459	-1.358	
4	1	1	13.372	13.081	13.081	0.0	0.291	0.211	
6	1	1	12.945	13.740	-13.740	0.0	-0.796	-0.375	
8	1	1	13.306	15.920	15.920	0.0	-2.614	-1.222	
10	1	1	11.311	11.550	-11.550	0.0	-0.239	-0.083	
12	1	1	14.757	9.871	9.871	0.0	4.886	2.013	
-13	2	1	25.030	20.886	-20.886	0.0	4.143	1.946	
-11	2	1	18.830	23.011	23.011	0.0	-4.182	-1.560	
-9	2	1	22.358	26.105	-26.105	0.0	-3.747	-2.125	
0	12	0	206.469	210.970	210.970	0.0	-4.501	-1.434	*
-7	2	1	50.290	51.866	51.866	0.0	-1.577	-1.365	
-5	2	1	44.057	45.124	-45.124	0.0	-1.067	-1.138	
-3	2	1	133.771	137.511	137.511	0.0	-3.740	-1.836	
3	2	1	112.550	113.074	113.074	0.0	-0.524	-0.300	
5	2	1	25.903	24.157	-24.157	0.0	1.746	1.513	
7	2	1	41.947	43.471	43.471	0.0	-1.525	-1.202	
9	2	1	20.165	20.854	-20.854	0.0	-0.688	-0.366	
11	2	1	33.966	32.878	32.878	0.0	1.089	0.745	
-12	3	1	35.368	37.846	-37.846	0.0	-2.478	-1.306	
-10	3	1	13.240	7.022	7.022	0.0	6.218	2.658	
-8	3	1	23.694	23.238	-23.238	0.0	0.456	0.303	
-4	3	1	27.157	25.730	-25.730	0.0	1.426	1.729	
-2	3	1	148.347	154.021	-154.021	0.0	-5.674	-2.530	
2	3	1	133.606	137.040	-137.040	0.0	-3.433	-1.683	
4	3	1	22.474	24.885	-24.885	0.0	-2.412	-1.810	
6	3	1	38.616	39.678	-39.678	0.0	-1.062	-0.946	
8	3	1	10.685	14.259	-14.259	0.0	-3.575	-1.295	
10	3	1	4.732	8.854	8.854	0.0	-4.122	-0.827	
12	3	1	27.585	27.392	-27.392	0.0	0.193	0.094	
0	12	0	205.414	210.970	210.970	0.0	-5.556	-1.779	*
-13	4	1	23.364	22.531	22.531	0.0	0.833	0.294	
-11	4	1	17.296	16.243	-16.243	0.0	1.054	0.456	
-9	4	1	6.694	2.297	2.297	0.0	4.397	1.227	
-7	4	1	17.165	16.237	16.237	0.0	0.927	0.614	
-5	4	1	27.091	25.201	25.201	0.0	1.889	1.978	
-3	4	1	16.769	17.959	17.959	0.0	-1.190	-1.143	
-1	4	1	24.106	26.258	26.258	0.0	-2.152	-2.685	
1	4	1	17.329	17.029	17.029	0.0	0.300	0.277	
3	4	1	5.738	11.206	11.206	0.0	-5.468	-2.079	
5	4	1	4.501	5.173	5.173	0.0	-0.671	-0.161	
7	4	1	27.519	25.439	25.439	0.0	2.080	1.548	
9	4	1	17.560	20.357	20.357	0.0	-2.797	-1.282	
11	4	1	16.554	19.479	-19.479	0.0	-2.924	-1.008	
-12	5	1	71.708	71.241	71.241	0.0	0.468	0.287	
-10	5	1	8.327	14.187	14.187	0.0	-5.860	-1.535	
-8	5	1	11.328	9.594	9.594	0.0	1.733	0.763	
-6	5	1	97.843	100.177	100.177	0.0	-2.335	-1.461	
-4	5	1	92.946	92.202	92.202	0.0	0.743	0.501	
-2	5	1	208.546	213.473	213.473	0.0	-4.926	-1.571	
0	5	1	82.129	83.496	-83.496	0.0	-1.367	-1.052	
0	12	0	206.255	210.970	210.970	0.0	-4.715	-1.505	*
2	5	1	121.124	121.576	121.576	0.0	-0.451	-0.241	
4	5	1	13.042	13.087	13.087	0.0	-0.044	-0.023	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
6	5	1	150.227	155.246	155.246	0.0	-5.020	-2.143	
8	5	1	23.249	22.920	22.920	0.0	0.329	0.223	
10	5	1	3.166	0.552	0.552	0.0	2.613	0.407	
12	5	1	42.606	40.307	40.307	0.0	2.300	1.558	
-13	6	1	51.065	53.529	53.529	0.0	-2.464	-1.256	
-11	6	1	10.470	5.555	-5.555	0.0	4.915	1.379	
-9	6	1	102.756	103.171	103.171	0.0	-0.414	-0.236	
-7	6	1	92.204	93.191	-93.191	0.0	-0.987	-0.634	
-5	6	1	194.103	200.928	200.928	0.0	-6.825	-2.315	
-3	6	1	167.622	164.463	164.463	0.0	3.159	1.241	
-1	6	1	135.321	140.228	140.228	0.0	-4.907	-2.575	
1	6	1	53.868	41.848	-41.848	0.0	12.020	12.392	*
3	6	1	71.395	72.022	72.022	0.0	-0.627	-0.505	
5	6	1	231.400	235.139	235.139	0.0	-3.739	-1.068	
7	6	1	30.784	29.496	-29.496	0.0	1.288	0.972	
9	6	1	82.871	83.752	83.752	0.0	-0.881	-0.567	
11	6	1	29.960	30.002	-30.002	0.0	-0.042	-0.023	
-12	7	1	41.304	41.622	41.622	0.0	-0.319	-0.188	
0	12	0	206.485	210.970	210.970	0.0	-4.484	-1.429	*
-10	7	1	16.653	13.251	-13.251	0.0	3.402	1.447	
-8	7	1	29.399	30.410	-30.410	0.0	-1.011	-0.741	
-6	7	1	30.883	33.325	33.325	0.0	-2.442	-1.890	
-4	7	1	11.311	5.853	-5.853	0.0	5.458	3.431	
-2	7	1	61.552	60.732	60.732	0.0	0.819	0.760	
0	7	1	133.854	135.501	-135.501	0.0	-1.647	-0.802	
2	7	1	13.108	12.451	12.451	0.0	0.657	0.451	
4	7	1	65.509	65.321	-65.321	0.0	0.188	0.157	
6	7	1	65.525	66.366	66.366	0.0	-0.841	-0.659	
10	7	1	21.089	20.426	-20.426	0.0	0.663	0.293	
-13	8	1	7.816	5.757	5.757	0.0	2.059	0.323	
-11	8	1	16.488	16.964	-16.964	0.0	-0.476	-0.161	
-9	8	1	13.834	11.189	-11.189	0.0	2.645	1.096	
-7	8	1	13.207	16.571	16.571	0.0	-3.364	-1.359	
-5	8	1	14.807	17.053	-17.053	0.0	-2.246	-1.150	
-3	8	1	16.225	11.660	11.660	0.0	4.565	4.261	
-1	8	1	7.832	1.219	1.219	0.0	6.613	3.731	
0	12	0	207.310	210.970	210.970	0.0	-3.660	-1.162	*
3	8	1	6.942	2.854	2.854	0.0	4.087	1.594	
5	8	1	22.424	22.682	-22.682	0.0	-0.258	-0.179	
7	8	1	23.018	24.557	24.557	0.0	-1.539	-0.938	
11	8	1	11.987	12.236	-12.236	0.0	-0.248	-0.067	
-12	9	1	24.222	24.713	-24.713	0.0	-0.491	-0.196	
-10	9	1	13.207	14.493	14.493	0.0	-1.286	-0.415	
-6	9	1	13.900	15.408	15.408	0.0	-1.508	-0.749	
-4	9	1	20.775	19.422	19.422	0.0	1.354	1.016	
-2	9	1	60.546	61.149	-61.149	0.0	-0.603	-0.536	
0	9	1	93.242	90.574	90.574	0.0	2.668	1.775	
2	9	1	66.300	66.516	-66.516	0.0	-0.215	-0.181	
4	9	1	34.527	33.198	33.198	0.0	1.329	1.156	
6	9	1	14.180	12.457	-12.457	0.0	1.723	0.877	
8	9	1	9.464	1.466	1.466	0.0	7.998	2.768	
10	9	1	22.523	21.306	21.306	0.0	1.217	0.689	
-11	10	1	16.785	18.678	18.678	0.0	-1.892	-0.605	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
-9	10	1	19.755	20.788	-20.788	0.0	-1.035	-0.525	
-7	10	1	19.011	19.723	19.723	0.0	-0.712	-0.405	
0	12	0	207.046	210.970	210.970	0.0	-3.924	-1.247	*
-5	10	1	29.828	31.177	-31.177	0.0	-1.350	-1.201	
-3	10	1	59.359	58.991	58.991	0.0	0.368	0.328	
-1	10	1	34.857	34.121	-34.121	0.0	0.736	0.723	
1	10	1	5.474	1.029	-1.029	0.0	4.446	1.565	
3	10	1	47.701	49.674	49.674	0.0	-1.973	-1.843	
5	10	1	34.923	34.566	-34.566	0.0	0.357	0.280	
7	10	1	24.964	23.052	23.052	0.0	1.911	1.338	
9	10	1	14.230	15.535	-15.535	0.0	-1.306	-0.475	
11	10	1	18.731	17.664	17.664	0.0	1.067	0.436	
-12	11	1	11.427	3.733	3.733	0.0	7.693	1.804	
-10	11	1	11.575	14.439	-14.439	0.0	-2.864	-0.744	
-8	11	1	16.027	12.218	12.218	0.0	3.809	1.966	
-6	11	1	19.935	18.707	-18.707	0.0	1.227	0.826	
-4	11	1	13.685	13.716	-13.716	0.0	-0.030	-0.016	
-2	11	1	30.636	29.397	-29.397	0.0	1.239	1.133	
0	11	1	2.490	5.810	-5.810	0.0	-3.320	-0.616	
2	11	1	54.478	54.701	-54.701	0.0	-0.223	-0.200	
6	11	1	16.423	16.928	-16.928	0.0	-0.505	-0.262	
0	12	0	207.277	210.970	210.970	0.0	-3.693	-1.173	*
10	11	1	16.043	14.344	-14.344	0.0	1.699	0.716	
-11	12	1	9.745	12.600	12.600	0.0	-2.856	-0.591	
-7	12	1	16.868	15.713	15.713	0.0	1.155	0.571	
-5	12	1	18.764	19.861	19.861	0.0	-1.097	-0.613	
-3	12	1	19.176	18.941	18.941	0.0	0.235	0.158	
-1	12	1	26.678	29.374	29.374	0.0	-2.696	-2.160	
1	12	1	32.532	34.843	34.843	0.0	-2.312	-1.920	
3	12	1	19.506	15.884	15.884	0.0	3.621	2.590	
5	12	1	16.983	19.824	19.824	0.0	-2.841	-1.353	
7	12	1	18.451	14.555	14.555	0.0	3.896	2.441	
9	12	1	13.059	9.445	9.445	0.0	3.614	1.397	
-10	13	1	13.042	2.523	2.523	0.0	10.520	3.332	*
-8	13	1	8.228	2.077	-2.077	0.0	6.150	1.840	
-6	13	1	7.321	8.252	-8.252	0.0	-0.931	-0.253	
-4	13	1	33.950	32.812	32.812	0.0	1.138	1.035	
-2	13	1	42.920	44.443	-44.443	0.0	-1.524	-1.333	
0	13	1	35.450	35.435	35.435	0.0	0.015	0.013	
2	13	1	35.434	36.117	-36.117	0.0	-0.683	-0.611	
0	12	0	207.359	210.970	210.970	0.0	-3.610	-1.146	*
4	13	1	19.061	17.292	17.292	0.0	1.769	1.115	
6	13	1	14.477	13.170	-13.170	0.0	1.307	0.557	
8	13	1	13.224	13.576	13.576	0.0	-0.353	-0.120	
10	13	1	15.268	10.947	-10.947	0.0	4.322	1.811	
-9	14	1	28.063	30.997	-30.997	0.0	-2.934	-1.386	
-7	14	1	31.328	30.886	30.886	0.0	0.442	0.323	
-5	14	1	74.297	77.662	-77.662	0.0	-3.365	-2.319	
-3	14	1	38.418	38.789	38.789	0.0	-0.371	-0.318	
-1	14	1	31.542	33.526	-33.526	0.0	-1.984	-1.496	
1	14	1	45.690	47.220	-47.220	0.0	-1.531	-1.274	
3	14	1	20.973	23.704	23.704	0.0	-2.730	-1.633	
5	14	1	42.095	41.889	-41.889	0.0	0.206	0.158	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
7	14	1	8.052	8.054	8.054	0.0	0.998	0.270	
9	14	1	32.532	32.884	-32.884	0.0	-0.352	-0.197	
-10	15	1	7.502	14.507	14.507	0.0	-7.005	-1.127	
-8	15	1	11.014	9.709	-9.709	0.0	1.306	0.370	
-6	15	1	19.605	19.445	19.445	0.0	0.159	0.081	
-4	15	1	14.708	17.555	17.555	0.0	-2.848	-1.249	
-2	15	1	51.642	52.883	-52.883	0.0	-1.241	-1.031	
0	12	0	205.875	210.970	210.970	0.0	-5.094	-1.528	*
0	15	1	51.741	51.606	51.606	0.0	0.135	0.113	
2	15	1	25.640	26.676	-26.676	0.0	-1.036	-0.733	
6	15	1	5.787	5.543	-5.543	0.0	0.244	0.053	
8	15	1	11.097	10.815	10.815	0.0	0.281	0.085	
10	15	1	11.971	11.659	11.659	0.0	0.311	0.084	
-9	16	1	35.022	35.604	35.604	0.0	-0.583	-0.335	
-7	16	1	24.403	21.826	21.826	0.0	2.577	1.531	
-5	16	1	60.480	62.759	62.759	0.0	-2.279	-1.631	
-3	16	1	50.603	51.446	51.446	0.0	-0.843	-0.680	
-1	16	1	66.416	66.356	66.356	0.0	0.060	0.045	
1	16	1	50.438	50.296	50.296	0.0	0.143	0.123	
3	16	1	45.014	44.379	44.379	0.0	0.635	0.509	
5	16	1	55.451	56.337	56.337	0.0	-0.886	-0.643	
7	16	1	30.586	32.021	32.021	0.0	-1.435	-0.816	
9	16	1	38.830	37.680	37.680	0.0	1.150	0.697	
-8	17	1	44.898	46.889	46.889	0.0	-1.991	-1.384	
-4	17	1	10.206	11.875	11.875	0.0	-1.669	-0.509	
0	12	0	206.716	210.970	210.970	0.0	-4.254	-1.355	*
-2	17	1	112.550	110.906	110.906	0.0	1.645	0.879	
0	17	1	55.253	56.699	-56.699	0.0	-1.446	-1.132	
2	17	1	64.454	66.795	66.795	0.0	-2.341	-1.630	
6	17	1	81.437	79.375	79.375	0.0	2.062	1.302	
-9	18	1	34.576	37.184	37.184	0.0	-2.607	-1.325	
-7	18	1	74.116	77.698	-77.698	0.0	-3.583	-2.188	
-5	18	1	74.396	75.553	75.553	0.0	-1.157	-0.745	
-3	18	1	6.991	3.519	3.519	0.0	3.472	0.965	
-1	18	1	13.356	9.601	9.601	0.0	3.754	1.722	
1	18	1	21.237	22.274	-22.274	0.0	-1.037	-0.560	
3	18	1	10.355	12.319	-12.319	0.0	-1.964	-0.582	
5	18	1	65.492	63.957	63.957	0.0	1.535	1.054	
7	18	1	39.325	36.148	-36.148	0.0	3.177	2.037	
-4	19	1	6.002	16.353	-16.353	0.0	-10.351	-1.903	*
-2	19	1	33.637	34.432	34.432	0.0	-0.796	-0.544	
0	19	1	35.351	34.344	-34.344	0.0	1.007	0.776	
0	12	0	207.837	210.970	210.970	0.0	-3.132	-0.992	*
4	19	1	18.286	17.618	-17.618	0.0	0.668	0.311	
6	19	1	29.020	27.579	27.579	0.0	1.441	0.870	
-7	20	1	15.714	20.113	20.113	0.0	-4.400	-1.248	
-5	20	1	6.777	7.874	-7.874	0.0	-1.097	-0.234	
-3	20	1	15.730	14.858	14.858	0.0	0.872	0.339	
-1	20	1	2.984	2.132	2.132	0.0	0.853	0.141	
1	20	1	12.828	11.638	11.638	0.0	1.190	0.456	
3	20	1	16.571	15.147	15.147	0.0	1.424	0.626	
5	20	1	13.191	14.410	-14.410	0.0	-1.219	-0.428	
7	20	1	20.990	21.281	21.281	0.0	-0.291	-0.113	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
-6	21	1	11.460	1.628	-1.628	0.0	9.832	2.760	
-4	21	1	1.929	8.911	8.911	0.0	-6.982	-0.355	
-2	21	1	45.096	43.299	-43.299	0.0	1.797	1.269	
0	21	1	26.448	27.168	27.168	0.0	-0.720	-0.427	
2	21	1	33.406	32.604	-32.604	0.0	0.802	0.562	
4	21	1	10.701	3.180	3.180	0.0	7.521	2.338	
6	21	1	16.439	12.347	-12.347	0.0	4.092	1.589	
-5	22	1	25.739	23.562	-23.562	0.0	2.177	0.928	
-3	22	1	19.127	19.324	19.324	0.0	-0.197	-0.079	
0	12	0	207.837	210.970	210.970	0.0	-3.132	-0.952	*
-1	22	1	15.021	1.895	-1.895	0.0	13.126	5.672	*
1	22	1	10.272	14.128	-14.128	0.0	-3.856	-0.985	
3	22	1	20.808	14.741	14.741	0.0	6.067	4.112	
-4	23	1	9.695	12.716	12.716	0.0	-3.020	-0.641	
-2	23	1	4.897	5.014	-5.014	0.0	-0.117	-0.019	
0	23	1	18.434	17.411	17.411	0.0	1.023	0.417	
2	23	1	1.500	9.665	9.665	0.0	-8.164	-0.917	
-1	24	1	7.436	2.689	2.689	0.0	4.748	0.890	
-12	0	2	48.427	46.815	-46.815	0.0	1.611	1.128	
-10	0	2	80.167	77.916	77.916	0.0	2.251	1.517	
-4	0	2	163.549	166.529	166.529	0.0	-2.979	-1.196	
-2	0	2	102.690	97.451	-97.451	0.0	5.240	3.278	
0	0	2	276.660	279.017	279.017	0.0	-2.356	-0.569	
2	0	2	141.158	139.469	139.469	0.0	1.689	0.780	
0	12	0	208.349	210.970	210.970	0.0	-2.621	-0.828	*
4	0	2	214.120	222.703	222.703	0.0	-8.584	-2.643	
6	0	2	56.424	57.833	-57.833	0.0	-1.409	-1.155	
8	0	2	75.188	75.997	75.997	0.0	-0.810	-0.564	
10	0	2	71.560	70.483	70.483	0.0	1.077	0.715	
-11	1	2	34.543	31.902	31.902	0.0	2.642	2.214	
-9	1	2	32.565	32.282	-32.282	0.0	0.283	0.239	
-7	1	2	163.929	167.854	167.854	0.0	-3.926	-1.550	
-5	1	2	29.432	28.054	-28.054	0.0	1.378	1.349	
-3	1	2	9.877	3.592	-3.592	0.0	6.285	4.222	
-1	1	2	20.957	22.394	-22.394	0.0	-1.437	-1.521	
1	1	2	119.212	112.378	112.378	0.0	6.834	3.710	
3	1	2	65.195	63.748	63.748	0.0	1.447	1.231	
5	1	2	34.148	33.805	-33.805	0.0	0.342	0.281	
0	12	0	209.404	210.970	210.970	0.0	-1.566	-0.492	*
-6	2	2	28.146	27.328	-27.328	0.0	0.818	0.757	
-4	2	2	11.047	10.631	-10.631	0.0	0.416	0.245	
-2	2	2	13.867	11.923	-11.923	0.0	1.943	1.632	
0	2	2	25.013	23.075	-23.075	0.0	1.938	2.193	
2	2	2	7.222	3.962	-3.962	0.0	3.260	1.438	
4	2	2	18.566	17.826	17.826	0.0	0.740	0.504	
-13	3	2	9.234	13.605	-13.605	0.0	-4.372	-0.872	
-11	3	2	14.048	12.125	-12.125	0.0	1.924	0.742	
-9	3	2	61.106	63.349	63.349	0.0	-2.242	-1.738	
-7	3	2	86.383	87.543	-87.543	0.0	-1.159	-0.785	
-5	3	2	15.318	20.662	20.662	0.0	-5.344	-3.267	
-3	3	2	19.226	13.325	13.325	0.0	5.900	6.543	
-1	3	2	3.034	6.464	-6.464	0.0	-3.430	-0.915	
1	3	2	79.524	77.739	-77.739	0.0	1.785	1.372	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
3	3	2	8.003	6.014	6.014	0.0	2.049	0.773	
5	3	2	28.452	30.474	30.474	0.0	-1.982	-1.382	
7	3	2	66.119	66.331	-66.331	0.0	-0.212	-0.161	
0	12	0	207.953	210.970	210.970	0.0	-3.017	-0.954	*
-12	4	2	44.882	43.158	43.158	0.0	1.723	1.058	
-10	4	2	39.688	38.554	-38.554	0.0	1.134	0.903	
-8	4	2	9.778	2.422	2.422	0.0	7.356	3.058	
-6	4	2	84.965	86.018	86.018	0.0	-1.053	-0.721	
-4	4	2	67.108	66.172	-66.172	0.0	0.936	0.803	
4	4	2	75.517	75.028	-75.028	0.0	0.489	0.363	
6	4	2	90.044	91.596	91.596	0.0	-1.553	-0.999	
8	4	2	9.497	3.970	3.970	0.0	5.527	1.923	
10	4	2	21.583	21.559	-21.559	0.0	0.024	0.012	
-9	5	2	36.506	37.293	37.293	0.0	-0.788	-0.607	
-7	5	2	41.386	42.105	-42.105	0.0	-0.719	-0.581	
-5	5	2	24.386	23.232	-23.232	0.0	1.154	0.952	
-3	5	2	29.432	26.502	26.502	0.0	2.930	3.286	
0	12	0	207.590	210.970	210.970	0.0	-3.380	-1.071	*
-1	5	2	63.646	63.124	-63.124	0.0	0.522	0.476	
1	5	2	81.354	79.687	-79.687	0.0	1.667	1.241	
3	5	2	33.818	29.604	29.604	0.0	4.214	4.134	
5	5	2	31.559	30.848	-30.848	0.0	0.711	0.558	
7	5	2	38.072	38.925	-38.925	0.0	-0.853	-0.632	
9	5	2	19.308	16.864	16.864	0.0	2.444	1.403	
11	5	2	9.959	13.701	-13.701	0.0	-3.742	-0.959	
-10	6	2	17.247	18.423	18.423	0.0	-1.176	-0.538	
-8	6	2	22.128	23.154	-23.154	0.0	-1.026	-0.672	
-6	6	2	19.044	22.446	22.446	0.0	-3.402	-2.262	
0	6	2	5.540	10.341	10.341	0.0	-4.801	-1.581	
2	6	2	9.464	12.261	12.261	0.0	-2.797	-1.366	
4	6	2	5.276	10.075	10.075	0.0	-4.798	-1.204	
6	6	2	25.409	24.940	24.940	0.0	0.469	0.384	
8	6	2	23.743	27.077	-27.077	0.0	-3.334	-1.946	
10	6	2	15.351	19.875	19.875	0.0	-4.524	-1.631	
-13	7	2	27.948	25.378	25.378	0.0	2.570	1.399	
0	12	0	208.431	210.970	210.970	0.0	-2.539	-0.802	*
-11	7	2	20.957	20.369	-20.369	0.0	0.588	0.287	
-9	7	2	19.638	20.558	20.558	0.0	-0.921	-0.493	
-5	7	2	34.395	34.844	34.844	0.0	-0.449	-0.386	
-3	7	2	38.187	38.459	-38.459	0.0	-0.272	-0.252	
-1	7	2	41.815	40.066	40.066	0.0	1.749	1.813	
1	7	2	18.813	18.350	18.350	0.0	0.463	0.316	
3	7	2	9.431	8.098	-8.098	0.0	1.333	0.540	
5	7	2	8.393	13.512	13.512	0.0	-5.119	-1.416	
9	7	2	18.137	14.228	14.228	0.0	3.909	2.168	
11	7	2	15.351	13.653	-13.653	0.0	1.697	0.720	
-12	8	2	15.400	15.253	15.253	0.0	0.148	0.046	
-10	8	2	9.613	11.544	-11.544	0.0	-1.931	-0.531	
-6	8	2	21.237	20.587	-20.587	0.0	0.650	0.458	
-4	8	2	18.599	17.845	-17.845	0.0	0.754	0.454	
-2	8	2	56.077	55.064	55.064	0.0	1.013	0.934	
0	8	2	90.011	87.043	-87.043	0.0	2.968	2.015	
2	8	2	86.152	84.241	84.241	0.0	1.912	1.318	

H	K	L	F(OBS)	F(CALC)	A(CALC)	E(CALC)	DELTA F	DELTA/SIGMA	
0	12	0	208.052	210.970	210.970	0.0	-2.918	-0.923	*
4	8	2	43.343	42.446	-42.446	0.0	1.397	1.277	
6	8	2	16.291	15.759	15.759	0.0	0.532	0.295	
8	8	2	12.234	6.086	-6.086	0.0	6.149	3.143	
10	8	2	11.971	3.804	-3.804	0.0	8.167	3.346	
-9	9	2	17.066	15.740	15.740	0.0	1.326	0.688	
-7	9	2	43.480	43.416	-43.416	0.0	0.064	0.057	
-5	9	2	17.841	19.085	19.085	0.0	-1.245	-0.755	
-3	9	2	85.328	84.861	-84.861	0.0	0.467	0.323	
-1	9	2	12.251	10.430	10.430	0.0	1.821	0.960	
1	9	2	42.573	39.969	-39.969	0.0	2.604	2.394	
3	9	2	71.527	74.566	-74.566	0.0	-3.039	-2.302	
5	9	2	20.116	21.589	21.589	0.0	-1.473	-0.780	
7	9	2	41.551	39.505	-39.505	0.0	2.046	1.520	
-12	10	2	8.838	5.420	5.420	0.0	3.418	0.772	
-10	10	2	26.662	27.018	27.018	0.0	-0.356	-0.210	
-8	10	2	38.682	38.664	38.664	0.0	0.018	0.015	
-6	10	2	22.787	21.113	21.113	0.0	1.675	1.193	
-4	10	2	53.439	53.601	53.601	0.0	-0.162	-0.139	
0	12	0	208.563	210.970	210.970	0.0	-2.407	-0.760	*
-2	10	2	31.279	31.803	31.803	0.0	-0.524	-0.460	
0	10	2	64.486	66.210	66.210	0.0	-1.724	-1.395	
2	10	2	43.216	43.622	43.622	0.0	-0.406	-0.352	
4	10	2	75.089	75.873	75.873	0.0	-0.784	-0.565	
6	10	2	17.000	16.316	16.316	0.0	0.684	0.335	
8	10	2	21.946	19.094	19.094	0.0	2.853	1.638	
10	10	2	12.004	8.661	8.661	0.0	3.343	1.061	
-11	11	2	38.006	38.840	38.840	0.0	-0.834	-0.471	
-9	11	2	9.052	7.338	7.338	0.0	1.714	0.557	
-7	11	2	134.348	135.927	135.927	0.0	-1.578	-0.730	
-5	11	2	17.857	17.720	-17.720	0.0	0.137	0.091	
-3	11	2	115.947	116.138	116.138	0.0	-0.191	-0.103	
1	11	2	95.238	93.072	93.072	0.0	2.166	1.354	
3	11	2	136.475	137.054	137.054	0.0	-0.579	-0.267	
5	11	2	16.307	14.693	-14.693	0.0	1.614	0.927	
7	11	2	46.844	49.540	49.540	0.0	-2.696	-2.042	
9	11	2	6.315	3.713	3.715	0.0	2.602	0.557	
-12	12	2	26.497	23.643	-23.643	0.0	2.854	1.155	
-10	12	2	14.263	12.919	12.919	0.0	1.343	0.498	
0	12	0	207.788	210.970	210.970	0.0	-3.182	-1.008	*
-8	12	2	17.890	19.648	19.648	0.0	-1.758	-0.851	
-6	12	2	82.904	83.487	83.487	0.0	-0.583	-0.395	
-4	12	2	29.399	26.783	26.783	0.0	2.616	2.216	
-2	12	2	127.440	129.635	-129.635	0.0	-2.196	-1.080	
0	12	2	195.504	198.645	198.645	0.0	-3.140	-1.049	
2	12	2	15.763	16.026	-16.026	0.0	-0.263	-0.130	
4	12	2	69.565	70.491	70.491	0.0	-0.927	-0.687	
6	12	2	29.844	28.585	-28.585	0.0	1.259	0.925	
8	12	2	30.042	29.523	29.523	0.0	0.519	0.337	
10	12	2	15.516	13.673	13.673	0.0	1.843	0.670	
-11	13	2	2.193	8.551	8.551	0.0	-6.358	-0.728	
-9	13	2	17.263	10.047	-10.047	0.0	7.216	4.142	
-7	13	2	36.769	37.136	37.136	0.0	-0.366	-0.257	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
-5	13	2	54.874	52.897	-52.897	0.0	1.977	1.645	
-3	13	2	31.856	32.922	32.922	0.0	-1.067	-0.843	
-1	13	2	62.376	64.515	-64.515	0.0	-2.139	-1.739	
1	13	2	12.185	14.745	-14.745	0.0	-2.560	-1.068	
3	13	2	42.540	42.630	42.630	0.0	-0.089	-0.074	
5	13	2	43.579	43.265	-43.265	0.0	0.314	0.263	
7	13	2	14.856	10.847	-10.847	0.0	4.009	1.957	
0	12	0	207.607	210.970	210.970	0.0	-3.363	-1.066	*
9	13	2	14.757	16.142	-16.142	0.0	-1.384	-0.495	
-8	14	2	8.426	8.495	8.495	0.0	-0.070	-0.020	
-4	14	2	1.995	2.365	2.365	0.0	-0.369	-0.065	
-2	14	2	24.617	22.216	22.216	0.0	2.402	1.924	
0	14	2	4.963	2.329	-2.329	0.0	2.634	0.646	
2	14	2	22.655	21.870	21.870	0.0	0.785	0.583	
4	14	2	8.129	9.647	9.647	0.0	-1.519	-0.488	
6	14	2	17.511	17.433	17.433	0.0	0.078	0.037	
8	14	2	10.140	3.505	-3.505	0.0	6.635	2.438	
-11	15	2	3.083	10.010	-10.010	0.0	-6.927	-0.751	
-9	15	2	25.475	23.159	23.159	0.0	2.316	1.232	
-7	15	2	29.778	29.623	-29.623	0.0	0.155	0.104	
-5	15	2	28.772	31.128	31.128	0.0	-2.355	-1.467	
-3	15	2	38.088	37.487	-37.487	0.0	0.601	0.513	
-1	15	2	27.272	26.029	26.029	0.0	1.243	0.938	
1	15	2	3.578	5.894	-5.894	0.0	-2.316	-0.442	
3	15	2	27.404	27.217	-27.217	0.0	0.187	0.125	
5	15	2	26.744	27.219	27.219	0.0	-0.475	-0.306	
0	12	0	208.085	210.970	210.970	0.0	-2.885	-0.912	*
7	15	2	18.648	21.559	-21.559	0.0	-2.910	-1.237	
9	15	2	14.361	16.525	16.525	0.0	-2.163	-0.737	
-4	16	2	16.472	13.971	-13.971	0.0	2.501	1.499	
-2	16	2	16.324	15.898	15.898	0.0	0.425	0.232	
0	16	2	38.022	38.325	-38.325	0.0	-0.302	-0.231	
2	16	2	28.393	28.021	28.021	0.0	0.372	0.279	
4	16	2	24.073	25.704	-25.704	0.0	-1.631	-0.867	
6	16	2	8.558	5.786	5.786	0.0	2.771	0.866	
8	16	2	6.496	4.732	-4.732	0.0	1.764	0.384	
-7	17	2	11.130	5.134	5.134	0.0	5.995	2.306	
-5	17	2	9.481	5.363	5.363	0.0	4.118	1.379	
-3	17	2	7.568	5.629	-5.629	0.0	1.939	0.541	
-1	17	2	7.865	6.668	6.668	0.0	1.197	0.373	
0	12	0	207.161	210.970	210.970	0.0	-3.808	-1.210	*
-2	18	2	20.611	19.995	19.995	0.0	0.616	0.331	
2	18	2	22.358	20.616	20.616	0.0	1.742	1.057	
4	18	2	8.656	10.533	10.533	0.0	-1.877	-0.495	
6	18	2	21.682	21.625	21.625	0.0	0.058	0.028	
-7	19	2	29.828	30.166	-30.166	0.0	-0.339	-0.181	
-5	19	2	6.315	5.078	5.078	0.0	1.237	0.268	
-3	19	2	19.654	19.329	-19.329	0.0	0.325	0.165	
1	19	2	28.162	23.981	-23.981	0.0	4.182	3.618	
3	19	2	1.253	3.650	-3.650	0.0	-2.397	-0.310	
5	19	2	13.009	5.220	-5.220	0.0	7.790	3.394	
-8	20	2	5.870	2.310	-2.310	0.0	3.560	0.550	
-6	20	2	14.939	13.139	13.139	0.0	1.800	0.680	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
-4	20	2	36.110	34.258	-34.258	0.0	1.852	1.271	
-2	20	2	12.878	9.445	9.445	0.0	3.433	1.305	
0	12	0	209.058	210.970	210.970	0.0	-1.912	-0.602	*
0	20	2	21.386	21.409	-21.409	0.0	-0.024	-0.011	
2	20	2	20.644	24.186	24.186	0.0	-3.543	-1.382	
4	20	2	49.350	50.541	-50.541	0.0	-1.191	-0.776	
6	20	2	24.634	26.173	26.173	0.0	-1.539	-0.636	
-7	21	2	12.861	10.495	-10.495	0.0	2.366	0.674	
-5	21	2	25.253	24.281	24.281	0.0	1.012	0.478	
-3	21	2	18.747	19.596	19.596	0.0	-0.849	-0.370	
-1	21	2	20.594	23.619	23.619	0.0	-3.025	-1.323	
1	21	2	10.272	3.641	3.641	0.0	6.632	2.064	
3	21	2	18.335	19.136	19.136	0.0	-0.801	-0.325	
5	21	2	28.047	30.758	30.758	0.0	-2.711	-1.160	
-6	22	2	17.379	19.981	19.981	0.0	-2.602	-0.773	
-4	22	2	32.103	32.735	32.735	0.0	-0.631	-0.333	
-2	22	2	9.102	8.159	8.159	0.0	0.942	0.232	
0	22	2	53.258	51.660	51.660	0.0	1.597	1.163	
2	22	2	19.094	14.651	14.651	0.0	4.443	2.307	
4	22	2	44.305	44.523	44.523	0.0	-0.219	-0.130	
-3	23	2	26.283	22.683	22.683	0.0	3.600	1.840	
-1	23	2	18.071	18.342	-18.342	0.0	-0.271	-0.104	
1	23	2	22.226	24.619	24.619	0.0	-2.392	-1.055	
0	12	0	207.359	210.970	210.970	0.0	-3.610	-1.146	*
-13	0	3	17.313	13.540	-13.540	0.0	3.773	1.741	
-9	0	3	15.862	14.953	-14.953	0.0	0.909	0.478	
-7	0	3	0.214	4.187	4.187	0.0	-3.973	-0.520	
-3	0	3	18.731	20.570	-20.570	0.0	-1.839	-1.357	
-1	0	3	3.149	0.423	0.423	0.0	2.726	0.600	
1	0	3	17.181	14.308	14.308	0.0	2.873	2.150	
3	0	3	14.345	16.916	-16.916	0.0	-2.571	-1.146	
7	0	3	10.454	8.512	-8.512	0.0	1.942	0.683	
9	0	3	5.474	11.566	11.566	0.0	-6.092	-1.058	
-12	1	3	7.238	1.338	-1.338	0.0	5.901	1.338	
-10	1	3	6.991	5.521	5.521	0.0	1.470	0.410	
-8	1	3	7.090	3.047	3.047	0.0	4.043	1.215	
-2	1	3	25.722	25.220	-25.220	0.0	0.502	0.428	
0	1	3	31.345	30.918	30.918	0.0	0.427	0.411	
2	1	3	32.829	32.132	-32.132	0.0	0.697	0.646	
0	12	0	207.376	210.970	210.970	0.0	-3.594	-1.140	*
6	1	3	19.638	17.104	-17.104	0.0	2.533	1.455	
8	1	3	5.392	15.260	15.260	0.0	-9.868	-1.722	
10	1	3	19.110	16.175	-16.175	0.0	2.935	1.430	
-11	2	3	4.139	11.512	11.512	0.0	-7.373	-1.241	
-9	2	3	28.921	26.210	-26.210	0.0	2.710	2.112	
-7	2	3	47.685	47.644	47.644	0.0	0.041	0.036	
-5	2	3	61.815	62.074	-62.074	0.0	-0.259	-0.219	
-3	2	3	100.267	100.645	100.645	0.0	-0.379	-0.234	
1	2	3	10.783	7.251	7.251	0.0	3.533	1.709	
3	2	3	49.218	50.705	50.705	0.0	-1.486	-1.312	
5	2	3	7.865	6.023	6.023	0.0	1.842	0.649	
7	2	3	28.838	25.569	25.569	0.0	3.269	2.357	
9	2	3	20.990	21.740	-21.740	0.0	-0.750	-0.367	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
-12	3	3	21.831	22.096	-22.096	0.0	-0.265	-0.117	
-10	3	3	14.906	12.803	12.803	0.0	2.103	1.115	
-8	3	3	47.784	48.143	-48.143	0.0	-0.359	-0.302	
-6	3	3	9.184	12.531	12.531	0.0	-3.347	-1.183	
0	12	0	207.541	210.970	210.970	0.0	-3.429	-1.087	*
-4	3	3	9.943	2.647	2.647	0.0	7.295	3.282	
-2	3	3	100.217	99.090	-99.090	0.0	1.127	0.700	
0	3	3	29.696	27.867	27.867	0.0	1.829	1.731	
2	3	3	75.089	75.002	-75.002	0.0	0.087	0.064	
4	3	3	8.920	1.160	1.160	0.0	7.760	2.791	
6	3	3	50.719	51.219	-51.219	0.0	-0.500	-0.399	
8	3	3	9.910	10.304	-10.304	0.0	-0.394	-0.118	
-13	4	3	23.463	20.713	20.713	0.0	2.750	1.410	
-9	4	3	6.513	11.878	11.878	0.0	-5.365	-1.338	
-7	4	3	8.739	5.534	-5.534	0.0	3.205	1.130	
-5	4	3	7.140	11.467	11.467	0.0	-4.327	-1.228	
-3	4	3	14.873	12.128	12.128	0.0	2.744	1.681	
-1	4	3	22.968	23.347	23.347	0.0	-0.378	-0.289	
1	4	3	19.902	19.801	19.801	0.0	0.101	0.066	
3	4	3	15.021	12.993	12.993	0.0	2.029	1.045	
5	4	3	14.180	11.547	-11.547	0.0	2.633	1.348	
7	4	3	12.845	12.477	12.477	0.0	0.368	0.146	
9	4	3	23.117	18.889	18.889	0.0	4.228	2.920	
0	12	0	209.338	210.970	210.970	0.0	-1.632	-0.513	*
-12	5	3	68.526	67.711	67.711	0.0	0.815	0.524	
-10	5	3	20.924	20.939	20.939	0.0	-0.015	-0.009	
-8	5	3	54.593	54.311	54.311	0.0	0.282	0.231	
-6	5	3	30.190	29.097	29.097	0.0	1.094	0.862	
-4	5	3	24.419	25.120	25.120	0.0	-0.701	-0.563	
-2	5	3	181.753	184.924	184.924	0.0	-3.172	-1.143	
0	5	3	22.441	22.532	22.532	0.0	-0.091	-0.066	
2	5	3	97.414	97.026	97.026	0.0	0.388	0.238	
4	5	3	45.426	47.344	-47.344	0.0	-1.918	-1.561	
6	5	3	100.629	102.124	102.124	0.0	-1.495	-0.864	
8	5	3	25.557	23.493	23.493	0.0	2.064	1.311	
10	5	3	23.826	22.644	22.644	0.0	1.182	0.713	
-13	6	3	18.747	19.449	19.449	0.0	-0.702	-0.231	
-11	6	3	14.296	14.395	14.395	0.0	-0.100	-0.039	
-9	6	3	124.043	125.145	125.145	0.0	-1.102	-0.541	
-7	6	3	82.426	82.427	-82.427	0.0	-0.001	-0.001	
-5	6	3	105.295	106.386	106.386	0.0	-1.090	-0.632	
-3	6	3	38.995	39.307	39.307	0.0	-0.312	-0.274	
-1	6	3	206.139	208.124	208.124	0.0	-1.985	-0.634	
1	6	3	22.292	21.997	21.997	0.0	0.295	0.239	
0	12	0	208.134	210.970	210.970	0.0	-2.836	-0.897	*
3	6	3	8.640	8.153	8.153	0.0	0.487	0.156	
5	6	3	101.140	102.184	102.184	0.0	-1.044	-0.606	
7	6	3	14.774	12.502	12.502	0.0	2.272	1.042	
9	6	3	84.536	84.127	84.127	0.0	0.410	0.242	
-12	7	3	36.621	35.599	35.599	0.0	1.022	0.611	
-10	7	3	11.410	0.522	0.522	0.0	10.888	4.907	*
-8	7	3	14.246	15.962	15.962	0.0	-1.716	-0.717	
-6	7	3	16.686	16.503	-16.503	0.0	0.183	0.101	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
-4	7	3	31.839	33.356	-33.356	0.0	-1.516	-1.350	
-2	7	3	81.024	80.308	80.308	0.0	0.717	0.515	
0	7	3	38.731	39.018	-39.018	0.0	-0.287	-0.263	
2	7	3	18.500	17.729	17.729	0.0	0.771	0.444	
4	7	3	85.267	83.920	-83.920	0.0	-0.654	-0.439	
6	7	3	42.145	41.573	41.573	0.0	0.572	0.430	
8	7	3	10.685	8.829	-8.829	0.0	1.855	0.617	
10	7	3	3.083	1.985	1.985	0.0	1.098	0.162	
-9	8	3	16.324	14.756	-14.756	0.0	1.568	0.795	
-7	8	3	9.151	6.803	6.803	0.0	2.348	0.957	
-5	8	3	16.884	13.927	-13.927	0.0	2.957	1.770	
0	12	0	208.068	210.970	210.970	0.0	-2.901	-0.918	*
-3	8	3	8.772	2.748	2.748	0.0	6.024	2.334	
1	8	3	15.532	12.665	12.665	0.0	2.867	1.326	
3	8	3	8.887	10.528	10.528	0.0	-1.640	-0.500	
5	8	3	26.002	28.063	-28.063	0.0	-2.061	-1.262	
7	8	3	12.729	9.686	9.686	0.0	3.043	1.523	
-12	9	3	14.345	18.630	-18.630	0.0	-4.285	-1.317	
-10	9	3	24.304	24.168	24.168	0.0	0.136	0.089	
-8	9	3	32.796	31.793	-31.793	0.0	1.002	0.695	
-6	9	3	19.489	22.856	22.856	0.0	-3.367	-1.756	
-4	9	3	33.604	34.590	34.590	0.0	-0.986	-0.798	
-2	9	3	52.994	53.829	-53.829	0.0	-0.835	-0.656	
0	9	3	57.363	58.372	58.372	0.0	-1.008	-0.862	
2	9	3	35.450	35.527	-35.527	0.0	-0.076	-0.063	
4	9	3	30.982	29.948	29.948	0.0	1.034	0.779	
6	9	3	18.731	21.499	-21.499	0.0	-2.768	-1.263	
-9	10	3	14.510	14.905	-14.905	0.0	-0.395	-0.156	
0	12	0	208.035	210.970	210.970	0.0	-2.934	-0.928	*
-7	10	3	29.152	29.533	29.933	0.0	-0.781	-0.538	
-5	10	3	56.143	57.182	-57.182	0.0	-1.039	-0.860	
-3	10	3	56.852	56.441	56.441	0.0	0.411	0.347	
-1	10	3	6.282	10.901	-10.901	0.0	-4.619	-1.186	
1	10	3	18.055	18.457	-18.457	0.0	-0.402	-0.241	
3	10	3	20.973	23.751	23.751	0.0	-2.778	-1.655	
5	10	3	4.716	2.703	2.703	0.0	2.013	0.464	
9	10	3	18.175	18.566	-18.566	0.0	-2.391	-0.800	
-12	11	3	11.057	6.250	6.250	0.0	4.847	1.295	
-10	11	3	2.539	5.983	-5.983	0.0	-3.444	-0.506	
-4	11	3	5.128	2.380	2.380	0.0	2.748	0.667	
-2	11	3	35.005	36.431	-36.431	0.0	-1.426	-1.111	
2	11	3	15.367	18.571	-18.571	0.0	-3.203	-1.654	
4	11	3	17.775	19.254	-19.254	0.0	-1.480	-0.684	
6	11	3	17.577	20.532	-20.532	0.0	-2.955	-1.201	
8	11	3	11.179	9.966	9.966	0.0	1.213	0.416	
0	12	0	207.310	210.970	210.970	0.0	-3.660	-1.162	*
-7	12	3	12.713	13.381	13.381	0.0	-0.669	-0.267	
-5	12	3	9.283	5.650	5.650	0.0	3.634	1.344	
-3	12	3	13.603	13.782	13.782	0.0	-0.179	-0.090	
-1	12	3	20.017	19.212	19.212	0.0	0.805	0.554	
1	12	3	28.591	29.576	29.576	0.0	-0.985	-0.731	
3	12	3	6.694	7.918	7.918	0.0	-1.223	-0.314	
5	12	3	15.070	17.425	17.425	0.0	-2.354	-0.958	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
7	12	3	8.079	6.111	6.111	0.0	1.968	0.541	
-8	13	3	4.056	0.606	0.606	0.0	3.450	0.618	
-6	13	3	7.107	5.273	-5.273	0.0	1.833	0.547	
-4	13	3	13.867	12.242	12.242	0.0	1.625	0.720	
-2	13	3	16.142	14.709	-14.709	0.0	1.433	0.829	
0	13	3	25.969	28.543	28.543	0.0	-2.574	-1.579	
2	13	3	37.544	35.092	-35.092	0.0	2.452	1.992	
4	13	3	22.210	22.381	22.381	0.0	-0.171	-0.114	
6	13	3	15.202	16.896	-16.896	0.0	-1.694	-0.678	
8	13	3	12.630	10.374	10.374	0.0	2.256	0.842	
0	12	0	208.233	210.970	210.970	0.0	-2.737	-0.865	*
-9	14	3	34.346	34.943	-34.943	0.0	-0.598	-0.349	
-7	14	3	17.659	20.312	20.312	0.0	-2.653	-1.242	
-5	14	3	53.175	53.273	-53.273	0.0	-0.098	-0.076	
-3	14	3	34.923	34.347	34.347	0.0	0.575	0.438	
-1	14	3	50.191	50.576	-50.576	0.0	-0.385	-0.306	
1	14	3	6.843	8.297	-8.297	0.0	-1.454	-0.387	
5	14	3	28.822	30.801	-30.801	0.0	-1.979	-1.043	
7	14	3	14.032	10.877	10.877	0.0	3.155	1.326	
-10	15	3	12.366	14.864	14.864	0.0	-2.498	-0.644	
-8	15	3	11.031	10.025	-10.025	0.0	1.006	0.318	
-6	15	3	16.291	15.928	15.928	0.0	0.363	0.185	
-4	15	3	14.263	11.520	11.520	0.0	2.742	1.440	
2	15	3	31.444	29.686	-29.686	0.0	1.758	1.328	
4	15	3	23.183	20.866	20.866	0.0	2.316	1.587	
6	15	3	18.517	15.511	-15.511	0.0	3.005	1.387	
-9	16	3	31.312	30.946	30.946	0.0	0.366	0.205	
0	12	0	208.002	210.970	210.970	0.0	-2.967	-0.939	*
-7	16	3	13.883	9.765	9.765	0.0	4.118	2.071	
-5	16	3	49.828	50.752	50.752	0.0	-0.924	-0.668	
-3	16	3	30.383	31.081	31.081	0.0	-0.698	-0.430	
-1	16	3	59.853	60.417	60.417	0.0	-0.564	-0.410	
1	16	3	42.375	43.175	43.175	0.0	-0.799	-0.574	
3	16	3	38.550	37.633	37.633	0.0	0.917	0.650	
5	16	3	29.119	25.994	25.994	0.0	3.125	2.368	
7	16	3	24.354	25.076	25.076	0.0	-0.723	-0.340	
-8	17	3	22.325	22.281	22.281	0.0	0.044	0.022	
-6	17	3	9.580	10.926	10.926	0.0	-1.346	-0.366	
-2	17	3	88.312	85.947	85.947	0.0	2.365	1.471	
0	17	3	11.723	11.781	-11.781	0.0	-0.058	-0.020	
2	17	3	63.299	63.071	63.071	0.0	0.228	0.164	
4	17	3	48.839	46.532	-46.532	0.0	2.307	1.728	
6	17	3	61.782	63.596	63.596	0.0	-1.813	-1.084	
-9	18	3	59.078	58.336	58.336	0.0	0.742	0.453	
-7	18	3	57.957	56.043	-56.043	0.0	1.914	1.294	
-5	18	3	22.589	23.544	23.544	0.0	-0.955	-0.511	
-3	18	3	20.017	17.579	-17.579	0.0	2.438	1.265	
0	12	0	208.085	210.970	210.970	0.0	-2.885	-0.913	*
-1	18	3	70.439	70.141	70.141	0.0	0.298	0.202	
1	18	3	34.444	33.020	-33.020	0.0	1.425	1.035	
3	18	3	18.302	20.254	-20.254	0.0	-1.951	-0.750	
5	18	3	36.786	36.991	36.991	0.0	-0.206	-0.111	
-8	19	3	4.831	3.571	-3.571	0.0	1.260	0.214	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
-4	19	3	11.476	9.747	-9.747	0.0	1.729	0.653	
-5	20	3	6.909	9.944	-9.944	0.0	-3.035	-0.623	
-3	20	3	14.329	15.329	15.329	0.0	-1.000	-0.351	
1	20	3	7.519	10.150	10.150	0.0	-2.631	-0.597	
3	20	3	6.991	14.560	14.560	0.0	-7.569	-1.357	
-4	21	3	6.282	3.831	3.831	0.0	2.451	0.465	
-2	21	3	22.490	25.336	-25.336	0.0	-2.846	-1.232	
0	12	0	208.513	210.970	210.970	0.0	-2.456	-0.776	*
0	21	3	16.439	16.814	16.814	0.0	-0.375	-0.177	
2	21	3	31.312	31.215	-31.215	0.0	0.097	0.055	
-3	22	3	18.863	14.521	14.521	0.0	4.341	2.275	
-1	22	3	12.267	13.264	-13.264	0.0	-0.997	-0.303	
-12	0	4	5.557	2.317	2.317	0.0	3.239	0.663	
-10	0	4	35.665	35.275	35.275	0.0	0.390	0.295	
-8	0	4	22.820	22.760	-22.760	0.0	0.060	0.038	
-6	0	4	149.254	153.840	153.840	0.0	-4.587	-1.953	
-4	0	4	116.425	117.650	117.650	0.0	-1.225	-0.652	
-2	0	4	57.627	58.771	-58.771	0.0	-1.144	-0.949	
0	0	4	169.254	167.183	167.183	0.0	2.071	0.792	
2	0	4	6.332	1.994	-1.994	0.0	4.338	1.148	
4	0	4	149.287	151.441	151.441	0.0	-2.154	-0.906	
6	0	4	15.499	14.680	14.680	0.0	0.819	0.392	
8	0	4	47.256	47.721	47.721	0.0	-0.465	-0.311	
-13	1	4	9.382	5.747	5.747	0.0	3.635	0.935	
-11	1	4	23.941	26.634	26.634	0.0	-2.693	-1.359	
-9	1	4	17.906	16.782	-16.782	0.0	1.125	0.615	
-7	1	4	73.324	74.100	74.100	0.0	-0.776	-0.561	
0	12	0	207.804	210.970	210.970	0.0	-3.165	-1.002	*
-5	1	4	7.601	11.594	-11.594	0.0	-3.992	-1.105	
-3	1	4	130.638	133.751	133.751	0.0	-3.113	-1.502	
-1	1	4	69.268	69.932	-69.932	0.0	-0.664	-0.507	
1	1	4	8.656	6.375	6.375	0.0	2.282	0.742	
3	1	4	65.278	67.051	67.051	0.0	-1.773	-1.345	
5	1	4	3.050	11.109	11.109	0.0	-8.059	-1.311	
7	1	4	12.284	13.294	13.294	0.0	-1.010	-0.343	
9	1	4	19.176	20.642	-20.642	0.0	-1.466	-0.599	
-12	2	4	3.347	1.691	-1.691	0.0	1.656	0.255	
-10	2	4	11.624	7.431	-7.431	0.0	4.193	1.709	
-8	2	4	6.810	7.315	7.315	0.0	-0.505	-0.133	
-6	2	4	3.347	10.974	-10.974	0.0	-7.627	-1.421	
-4	2	4	8.244	3.801	-3.801	0.0	4.444	1.585	
-2	2	4	8.360	4.830	-4.830	0.0	3.530	1.196	
0	2	4	18.813	16.934	-16.934	0.0	1.879	1.346	
2	2	4	15.664	17.490	-17.490	0.0	-1.826	-0.916	
6	2	4	3.726	8.768	8.768	0.0	-5.042	-0.852	
8	2	4	7.585	3.249	-3.249	0.0	4.335	1.083	
0	12	0	207.986	210.970	210.970	0.0	-2.984	-0.944	*
-11	3	4	13.537	14.378	-14.378	0.0	-0.841	-0.267	
-9	3	4	16.967	18.203	18.203	0.0	-1.236	-0.571	
-7	3	4	18.269	18.538	-18.538	0.0	-0.268	-0.138	
-5	3	4	36.637	38.473	38.473	0.0	-1.835	-1.532	
-3	3	4	74.561	75.709	-75.709	0.0	-1.148	-0.842	
-1	3	4	50.318	51.646	51.646	0.0	-0.829	-0.720	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
1	3	4	14.361	12.632	-12.632	0.0	1.730	0.804	
3	3	4	40.232	39.345	-39.345	0.0	0.887	0.733	
5	3	4	16.142	16.750	16.750	0.0	-0.608	-0.291	
7	3	4	10.932	18.029	-18.029	0.0	-7.098	-1.772	
-12	4	4	11.443	10.244	10.244	0.0	1.199	0.341	
-8	4	4	15.450	18.202	18.202	0.0	-2.752	-1.184	
-6	4	4	15.779	15.370	-15.370	0.0	0.409	0.235	
-4	4	4	16.538	18.645	18.645	0.0	-2.107	-1.112	
-2	4	4	37.412	37.481	37.481	0.0	-0.069	-0.061	
0	4	4	42.788	45.571	-45.571	0.0	-2.784	-2.114	
2	4	4	79.013	81.712	81.712	0.0	-2.700	-1.812	
4	4	4	20.429	17.221	-17.221	0.0	3.208	2.218	
6	4	4	18.797	18.635	18.635	0.0	0.161	0.076	
0	12	0	208.134	210.970	210.970	0.0	-2.836	-0.896	*
-11	5	4	17.082	15.274	-15.274	0.0	1.808	0.868	
-9	5	4	4.501	0.040	-0.040	0.0	4.461	0.939	
-5	5	4	5.013	10.469	10.469	0.0	-5.456	-1.250	
-3	5	4	39.490	39.313	-39.313	0.0	0.177	0.158	
-1	5	4	9.662	7.786	7.786	0.0	1.876	0.697	
1	5	4	23.150	21.476	-21.476	0.0	1.673	1.047	
3	5	4	23.826	23.170	-23.170	0.0	0.656	0.358	
5	5	4	17.395	12.091	-12.091	0.0	5.304	2.887	
-12	6	4	11.146	3.564	-3.564	0.0	7.582	2.524	
-10	6	4	13.207	14.978	14.978	0.0	-1.771	-0.579	
-8	6	4	12.416	15.728	-15.728	0.0	-3.312	-1.249	
-4	6	4	4.914	1.304	1.304	0.0	3.609	0.843	
-2	6	4	12.020	8.545	8.545	0.0	3.475	1.718	
0	6	4	5.754	3.035	-3.035	0.0	2.719	0.704	
4	6	4	2.341	7.813	7.813	0.0	-5.471	-0.837	
0	12	0	207.854	210.970	210.970	0.0	-3.116	-0.986	*
6	6	4	19.308	21.242	21.242	0.0	-1.934	-0.991	
8	6	4	6.975	16.777	-16.777	0.0	-9.802	-1.715	
-11	7	4	19.341	15.265	-15.265	0.0	4.076	2.153	
-9	7	4	36.324	36.578	36.578	0.0	-0.254	-0.180	
-7	7	4	23.776	24.023	-24.023	0.0	-0.247	-0.150	
-5	7	4	23.166	22.149	22.149	0.0	1.017	0.721	
-3	7	4	16.917	16.250	16.250	0.0	0.667	0.380	
-1	7	4	13.784	12.854	12.854	0.0	0.930	0.424	
1	7	4	25.178	23.147	-23.147	0.0	2.031	1.538	
3	7	4	35.417	34.514	34.514	0.0	0.903	0.741	
7	7	4	12.366	12.881	-12.881	0.0	-0.515	-0.165	
-12	8	4	30.718	33.362	33.362	0.0	-2.644	-1.258	
-10	8	4	46.596	43.083	-43.083	0.0	3.513	2.698	
-8	8	4	4.419	7.114	7.114	0.0	-2.695	-0.548	
-6	8	4	23.513	24.768	24.768	0.0	-1.256	-0.816	
-4	8	4	37.313	39.347	-39.347	0.0	-2.034	-1.671	
-2	8	4	1.698	6.393	-6.393	0.0	-4.695	-0.747	
0	8	4	8.096	3.414	-3.414	0.0	4.682	1.608	
2	8	4	45.145	44.188	44.188	0.0	0.958	0.761	
0	12	0	208.810	210.970	210.970	0.0	-2.159	-0.681	*
4	8	4	66.300	67.696	-67.696	0.0	-1.396	-1.009	
6	8	4	44.502	43.099	43.099	0.0	1.404	1.031	
-11	9	4	14.526	10.750	-10.750	0.0	3.776	1.430	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
-9	9	4	36.374	37.579	37.579	0.0	-1.205	-0.869	
-7	9	4	41.996	43.156	-43.156	0.0	-1.159	-0.835	
-5	9	4	12.663	8.826	8.826	0.0	3.838	1.958	
-3	9	4	27.124	25.178	-25.178	0.0	1.946	1.433	
-1	9	4	7.304	4.023	4.023	0.0	3.281	1.034	
1	9	4	47.751	48.791	-48.791	0.0	-1.041	-0.802	
3	9	4	11.591	13.167	-13.167	0.0	-1.575	-0.565	
5	9	4	5.210	1.037	-1.037	0.0	4.173	0.859	
7	9	4	39.952	39.285	-39.285	0.0	0.666	0.436	
-10	10	4	16.142	14.058	14.058	0.0	2.084	0.937	
-8	10	4	22.935	22.279	22.279	0.0	0.656	0.379	
-6	10	4	30.026	29.166	29.166	0.0	0.860	0.654	
-4	10	4	38.863	37.486	37.486	0.0	1.378	1.154	
-2	10	4	18.846	21.203	21.203	0.0	-2.356	-1.176	
0	10	4	38.880	39.406	39.406	0.0	-0.526	-0.389	
2	10	4	14.230	11.658	11.658	0.0	2.571	1.133	
0	12	0	208.513	210.970	210.970	0.0	-2.456	-0.775	*
4	10	4	44.387	46.141	46.141	0.0	-1.754	-1.159	
6	10	4	25.656	23.689	23.689	0.0	1.967	1.051	
-11	11	4	29.399	29.928	29.928	0.0	-0.529	-0.252	
-9	11	4	32.202	31.436	-31.436	0.0	0.766	0.502	
-7	11	4	107.719	107.718	107.718	0.0	0.001	0.001	
-5	11	4	13.488	11.512	11.512	0.0	1.976	1.018	
-3	11	4	97.760	98.027	98.027	0.0	-0.267	-0.157	
-1	11	4	14.790	16.604	-16.604	0.0	-1.814	-0.813	
1	11	4	60.958	60.436	60.436	0.0	0.521	0.400	
3	11	4	51.675	52.030	52.030	0.0	-0.355	-0.270	
5	11	4	32.021	29.480	29.480	0.0	2.540	1.732	
7	11	4	45.244	44.736	44.736	0.0	0.508	0.338	
-10	12	4	38.929	39.668	39.668	0.0	-0.738	-0.454	
-8	12	4	28.954	27.409	-27.409	0.0	1.545	0.938	
-6	12	4	41.732	39.440	39.440	0.0	2.293	1.805	
-4	12	4	80.431	80.721	80.721	0.0	-0.290	-0.191	
-2	12	4	43.216	46.974	-46.974	0.0	-3.757	-2.694	
0	12	4	40.199	39.961	39.961	0.0	0.238	0.168	
2	12	4	23.348	23.658	-23.658	0.0	-0.310	-0.181	
4	12	4	105.345	104.906	104.906	0.0	0.439	0.239	
0	12	0	208.299	210.970	210.970	0.0	-2.671	-0.844	*
6	12	4	40.545	38.980	-38.980	0.0	1.565	1.007	
-9	13	4	32.449	38.527	-38.527	0.0	-6.078	-3.037	
-7	13	4	40.661	40.916	40.916	0.0	-0.255	-0.185	
-5	13	4	20.990	18.421	-18.421	0.0	2.569	1.445	
-3	13	4	21.435	21.149	21.149	0.0	0.286	0.175	
-1	13	4	41.403	38.809	-38.809	0.0	2.594	2.038	
3	13	4	11.344	9.168	-9.168	0.0	2.176	0.759	
5	13	4	4.600	2.551	-2.551	0.0	2.049	0.383	
-10	14	4	10.619	5.283	-5.283	0.0	5.336	1.497	
-8	14	4	18.500	13.202	13.202	0.0	5.298	3.498	
-6	14	4	16.324	9.033	-9.033	0.0	7.291	4.904	
-2	14	4	18.187	18.615	18.615	0.0	-0.428	-0.219	
2	14	4	11.196	10.888	10.888	0.0	0.307	0.097	
6	14	4	22.309	18.491	18.491	0.0	3.818	2.067	
-9	15	4	27.783	28.260	28.260	0.0	-0.477	-0.241	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
-7	13	4	26.365	26.546	-26.546	0.0	-0.181	-0.110	
0	12	0	207.557	210.970	210.970	0.0	-3.413	-1.082	*
-5	15	4	20.248	20.860	20.860	0.0	-0.612	-0.283	
-3	15	4	20.182	20.343	-20.343	0.0	-0.161	-0.087	
-1	15	4	22.259	22.423	22.423	0.0	-0.163	-0.097	
1	15	4	14.675	17.227	-17.227	0.0	-2.552	-0.948	
5	15	4	3.891	9.713	9.713	0.0	-5.821	-0.856	
-6	16	4	17.000	15.908	15.908	0.0	1.092	0.517	
-4	16	4	18.599	20.015	-20.015	0.0	-1.416	-0.602	
2	16	4	19.902	17.735	17.735	0.0	2.166	1.187	
4	16	4	40.578	39.640	-39.640	0.0	0.938	0.608	
-7	17	4	9.365	9.259	-9.259	0.0	0.106	0.025	
-3	17	4	14.807	17.819	17.819	0.0	-3.012	-1.104	
1	17	4	19.704	16.689	-16.689	0.0	3.014	1.494	
3	17	4	10.206	16.049	16.049	0.0	-5.843	-1.445	
-6	18	4	13.570	12.610	12.610	0.0	0.960	0.369	
0	12	0	209.288	210.970	210.970	0.0	-1.681	-0.528	*
-4	18	4	6.051	2.755	2.755	0.0	3.296	0.644	
-2	18	4	13.290	11.795	11.795	0.0	1.495	0.533	
0	18	4	7.502	9.916	9.916	0.0	-2.414	-0.548	
2	18	4	6.084	8.088	8.088	0.0	-2.004	-0.397	
-5	19	4	13.554	12.619	12.619	0.0	0.935	0.337	
-3	19	4	30.240	29.077	-29.077	0.0	1.163	0.738	
1	19	4	18.451	15.891	-15.891	0.0	2.560	1.063	
-2	20	4	15.038	9.583	9.583	0.0	5.454	2.879	
0	20	4	33.043	33.496	-33.496	0.0	-0.453	-0.243	
-11	0	5	8.970	10.475	10.475	0.0	-1.506	-0.377	
-9	0	5	13.125	10.109	-10.109	0.0	3.016	1.108	
-7	0	5	11.888	4.500	4.500	0.0	7.389	3.689	
-5	0	5	8.689	2.700	-2.700	0.0	5.989	1.962	
-3	0	5	14.625	12.731	-12.731	0.0	1.895	1.007	
-1	0	5	10.948	13.127	-13.127	0.0	-2.179	-0.775	
3	0	5	7.552	6.418	-6.418	0.0	1.133	0.297	
5	0	5	1.863	1.682	1.682	0.0	0.181	0.026	
0	12	0	207.590	210.970	210.970	0.0	-3.380	-1.071	*
7	0	5	15.763	14.863	-14.863	0.0	0.900	0.320	
-10	1	5	3.562	4.423	4.423	0.0	-0.861	-0.139	
-8	1	5	8.788	1.450	1.450	0.0	7.338	2.403	
-6	1	5	4.798	4.016	4.016	0.0	0.782	0.160	
-4	1	5	1.830	6.106	6.106	0.0	-4.276	-0.650	
-2	1	5	13.933	10.959	-10.959	0.0	2.974	1.427	
0	1	5	16.587	17.422	17.422	0.0	-0.835	-0.436	
2	1	5	13.521	10.264	-10.264	0.0	3.257	1.469	
4	1	5	12.037	7.151	7.151	0.0	4.886	1.927	
6	1	5	17.857	15.115	-15.115	0.0	2.742	1.197	
-11	2	5	13.191	9.246	9.246	0.0	3.945	1.841	
-9	2	5	19.935	17.234	-17.234	0.0	2.701	1.489	
-7	2	5	32.449	31.238	31.238	0.0	1.211	0.899	
-5	2	5	45.871	47.841	-47.841	0.0	-1.970	-1.460	
-3	2	5	57.677	57.241	57.241	0.0	0.436	0.345	
-1	2	5	15.516	15.320	-15.320	0.0	0.196	0.100	
1	2	5	20.215	16.182	16.182	0.0	4.033	2.257	
3	2	5	2.078	7.985	7.985	0.0	-5.907	-0.835	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
5	2	5	5.161	13.155	13.155	0.0	-7.994	-1.226	
0	12	0	208.316	210.970	210.970	0.0	-2.654	-0.838	*
7	2	5	22.128	20.934	20.934	0.0	1.194	0.560	
-12	3	5	13.059	17.283	-17.283	0.0	-4.224	-1.116	
-10	3	5	28.871	27.470	27.470	0.0	1.401	0.829	
-8	3	5	37.090	38.992	-38.992	0.0	-1.893	-1.285	
-6	3	5	4.056	3.084	3.084	0.0	0.972	0.190	
-4	3	5	10.437	1.264	1.264	0.0	9.173	3.821	
-2	3	5	36.637	35.302	-35.302	0.0	1.336	1.136	
0	3	5	10.388	11.639	11.639	0.0	-1.251	-0.398	
2	3	5	50.719	50.487	-50.487	0.0	0.232	0.166	
4	3	5	16.324	17.879	17.879	0.0	-1.556	-0.600	
6	3	5	30.850	31.024	-31.024	0.0	-0.174	-0.101	
-9	4	5	13.257	13.065	13.065	0.0	0.192	0.065	
-5	4	5	7.321	8.137	8.137	0.0	-0.816	-0.218	
-3	4	5	4.848	4.773	-4.773	0.0	0.074	0.016	
-1	4	5	3.512	7.569	7.569	0.0	-4.057	-0.701	
1	4	5	5.392	10.063	10.063	0.0	-4.671	-0.957	
3	4	5	22.721	20.536	20.536	0.0	2.185	1.165	
5	4	5	8.492	10.438	-10.438	0.0	-1.947	-0.488	
0	12	0	209.025	210.970	210.970	0.0	-1.945	-0.613	*
-10	5	5	12.795	5.433	5.433	0.0	7.363	3.524	
-8	5	5	68.444	69.055	69.055	0.0	-0.611	-0.408	
-6	5	5	24.700	21.975	21.975	0.0	2.725	1.939	
-4	5	5	11.591	10.364	10.364	0.0	1.227	0.514	
-2	5	5	61.535	63.788	63.788	0.0	-2.253	-1.640	
0	5	5	23.925	26.939	26.939	0.0	-3.015	-1.735	
2	5	5	96.919	98.658	98.658	0.0	-1.738	-1.002	
4	5	5	38.435	39.216	-39.216	0.0	-0.781	-0.541	
6	5	5	45.409	48.725	48.725	0.0	-3.315	-2.134	
-11	6	5	8.261	9.229	-9.229	0.0	-0.968	-0.228	
-9	6	5	97.051	96.619	96.619	0.0	0.433	0.244	
-7	6	5	11.591	11.630	-11.630	0.0	-0.039	-0.013	
-5	6	5	65.674	65.942	65.942	0.0	-0.269	-0.195	
-3	6	5	47.899	48.934	-48.934	0.0	-1.035	-0.800	
-1	6	5	133.260	134.562	134.562	0.0	-1.302	-0.600	
1	6	5	23.727	22.183	22.183	0.0	1.544	1.050	
3	6	5	34.609	35.260	35.260	0.0	-0.650	-0.416	
5	6	5	32.202	32.722	32.722	0.0	-0.520	-0.328	
-10	7	5	7.914	10.741	-10.741	0.0	-2.826	-0.573	
-8	7	5	35.137	34.027	34.027	0.0	1.110	0.801	
0	12	0	208.645	210.970	210.970	0.0	-2.324	-0.733	*
-4	7	5	20.066	21.611	-21.611	0.0	-1.544	-0.742	
-2	7	5	7.205	10.320	10.320	0.0	-3.114	-0.750	
0	7	5	6.463	8.969	-8.969	0.0	-2.505	-0.570	
2	7	5	48.723	48.789	48.789	0.0	-0.065	-0.050	
4	7	5	58.930	58.356	-58.356	0.0	0.573	0.401	
6	7	5	12.910	11.527	11.527	0.0	1.384	0.467	
-11	8	5	15.681	1.970	-1.970	0.0	13.711	10.927	*
-7	8	5	3.759	0.338	-0.338	0.0	3.421	0.644	
-5	8	5	10.107	9.571	-9.571	0.0	0.536	0.168	
-1	8	5	8.508	15.006	-15.006	0.0	-6.498	-1.713	
3	8	5	10.289	13.714	13.714	0.0	-3.425	-0.900	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
-10	9	5	26.942	24.873	24.873	0.0	2.069	1.176	
-8	9	5	22.210	25.040	-25.040	0.0	-2.830	-1.367	
-6	9	5	5.837	12.340	12.340	0.0	-6.503	-1.363	
-4	9	5	9.943	11.927	11.927	0.0	-1.984	-0.614	
0	12	0	209.457	210.970	210.970	0.0	-1.533	-0.482	*
-2	9	5	7.123	11.772	-11.772	0.0	-4.649	-1.158	
0	9	5	26.975	28.838	28.838	0.0	-1.862	-1.039	
2	9	5	33.966	31.549	-31.549	0.0	2.417	1.755	
4	9	5	34.148	35.260	35.260	0.0	-1.112	-0.689	
-9	10	5	14.510	15.179	-15.179	0.0	-0.669	-0.223	
-7	10	5	15.285	17.674	17.674	0.0	-2.389	-0.920	
-5	10	5	32.021	30.846	-30.846	0.0	1.174	0.810	
-3	10	5	26.711	29.780	29.780	0.0	-3.069	-1.983	
-1	10	5	19.473	18.105	-18.105	0.0	1.368	0.854	
1	10	5	4.501	7.440	7.440	0.0	-2.938	-0.513	
-10	11	5	10.025	1.607	-1.607	0.0	8.418	2.619	
-8	11	5	5.293	6.004	6.004	0.0	-0.711	-0.135	
-6	11	5	2.688	7.110	-7.110	0.0	-4.423	-0.693	
-2	11	5	12.037	9.101	-9.101	0.0	2.936	1.122	
0	11	5	3.743	3.341	-3.341	0.0	0.402	0.070	
2	11	5	15.862	12.169	-12.169	0.0	3.693	1.763	
0	12	0	208.035	210.970	210.970	0.0	-2.934	-0.928	*
-9	12	5	10.503	8.526	-8.526	0.0	1.977	0.544	
-7	12	5	14.032	14.285	14.285	0.0	-0.253	-0.103	
-5	12	5	8.096	6.372	6.372	0.0	1.724	0.467	
-3	12	5	9.332	2.779	2.779	0.0	6.554	2.091	
1	12	5	22.046	21.800	21.800	0.0	0.246	0.136	
3	12	5	4.963	6.960	6.960	0.0	-1.997	-0.356	
-8	13	5	12.680	10.925	-10.925	0.0	1.755	0.613	
-6	13	5	3.413	3.840	3.840	0.0	-0.427	-0.063	
-4	13	5	7.222	9.268	9.268	0.0	-2.046	-0.490	
-2	13	5	16.571	15.026	-15.026	0.0	1.545	0.647	
0	13	5	22.853	19.780	19.780	0.0	3.073	1.804	
2	13	5	16.142	11.932	-11.932	0.0	4.211	1.745	
4	13	5	10.718	9.073	9.073	0.0	1.644	0.479	
-7	14	5	12.136	19.814	19.814	0.0	-7.678	-2.059	
-5	14	5	54.544	56.231	-56.231	0.0	-1.687	-1.083	
-3	14	5	37.577	34.797	34.797	0.0	2.780	2.143	
-1	14	5	26.398	26.641	-26.641	0.0	-0.243	-0.143	
1	14	5	8.294	13.022	-13.022	0.0	-4.728	-0.942	
3	14	5	15.252	8.216	-8.216	0.0	7.036	3.693	
0	12	0	207.590	210.970	210.970	0.0	-3.380	-1.071	*
-8	15	5	21.501	21.728	-21.728	0.0	-0.227	-0.094	
-6	15	5	18.665	18.197	18.197	0.0	0.468	0.210	
-4	15	5	16.241	11.939	11.939	0.0	4.302	2.217	
-2	15	5	20.083	17.838	-17.838	0.0	2.245	1.160	
0	15	5	21.237	21.328	21.328	0.0	-0.091	-0.045	
2	15	5	12.680	12.840	-12.840	0.0	-0.160	-0.046	
-7	16	5	13.290	7.618	7.618	0.0	5.672	2.015	
-5	16	5	29.415	30.628	30.628	0.0	-1.212	-0.660	
-3	16	5	15.747	12.902	12.902	0.0	2.844	1.185	
-1	16	5	38.863	38.790	38.790	0.0	0.073	0.046	
1	16	5	22.886	24.253	24.253	0.0	-1.367	-0.735	

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	
-8	17	5	11.740	3.349	3.349	0.0	8.390	2.706	
-4	17	5	14.098	4.667	-4.667	0.0	9.431	4.758	
-2	17	5	42.804	42.785	42.785	0.0	0.019	0.012	
0	17	5	8.442	2.848	2.848	0.0	5.594	1.467	
-3	18	5	49.037	50.753	-50.753	0.0	-1.716	-1.054	
-10	0	6	82.113	80.617	80.617	0.0	1.496	0.885	
-8	0	6	36.951	36.233	-36.233	0.0	0.717	0.471	
-6	0	6	31.361	28.724	28.724	0.0	2.637	1.854	
-4	0	6	81.387	82.572	82.572	0.0	-1.185	-0.747	
0	12	0	210.327	210.970	210.970	0.0	-0.643	-0.201	*
-2	0	6	35.483	35.710	35.710	0.0	-0.227	-0.155	
0	0	6	46.019	45.736	45.736	0.0	0.284	0.199	
2	0	6	20.627	21.922	-21.922	0.0	-1.295	-0.578	
4	0	6	99.129	97.368	97.369	0.0	1.760	0.946	
-9	1	6	24.700	24.433	-24.433	0.0	0.266	0.137	
-7	1	6	47.470	47.022	47.022	0.0	0.448	0.319	
-5	1	6	17.544	17.130	-17.130	0.0	0.413	0.178	
-3	1	6	68.856	69.329	69.329	0.0	-0.473	-0.322	
-1	1	6	8.508	7.478	-7.478	0.0	1.030	0.276	
1	1	6	26.101	24.970	24.970	0.0	1.131	0.620	
3	1	6	7.420	16.796	-16.796	0.0	-9.376	-1.675	
-6	2	6	15.202	8.405	-8.405	0.0	6.797	3.016	
-2	2	6	8.327	1.901	1.901	0.0	6.425	1.842	
0	2	6	6.727	4.368	-4.368	0.0	2.359	0.588	
2	2	6	15.021	11.336	-11.336	0.0	3.685	1.620	
4	2	6	15.747	11.265	-11.265	0.0	4.481	2.201	
-9	3	6	22.375	19.955	19.955	0.0	2.420	1.407	
0	12	0	207.722	210.970	210.970	0.0	-3.248	-1.029	*
-7	3	6	26.283	24.964	-24.964	0.0	1.318	0.789	
-5	3	6	23.859	24.722	24.722	0.0	-0.863	-0.460	
-3	3	6	24.321	23.534	-23.534	0.0	0.787	0.468	
-1	3	6	20.314	20.072	20.072	0.0	0.242	0.125	
1	3	6	22.259	21.596	-21.596	0.0	0.664	0.323	
3	3	6	9.778	10.850	10.850	0.0	-1.072	-0.287	
-10	4	6	30.504	31.906	-31.906	0.0	-1.402	-0.751	
-8	4	6	9.267	10.058	10.058	0.0	-0.792	-0.208	
-6	4	6	19.885	19.090	19.090	0.0	0.795	0.457	
-2	4	6	9.382	4.404	-4.404	0.0	4.978	1.522	
0	4	6	9.168	5.958	5.958	0.0	3.209	0.923	
2	4	6	37.099	35.638	35.638	0.0	1.461	0.957	
4	4	6	25.508	28.190	-28.190	0.0	-2.682	-1.389	
-9	5	6	22.523	22.133	22.133	0.0	0.391	0.224	
-7	5	6	20.677	20.458	-20.458	0.0	0.218	0.103	
-5	5	6	3.759	7.405	7.405	0.0	-3.645	-0.629	
-1	5	6	10.783	1.222	-1.222	0.0	9.561	3.257	
1	5	6	28.195	26.701	-26.701	0.0	1.494	0.814	
0	12	0	208.019	210.970	210.970	0.0	-2.951	-0.934	*
3	5	6	13.059	10.667	10.667	0.0	2.391	0.929	
-10	6	6	8.046	8.457	8.457	0.0	-0.411	-0.102	
-8	6	6	6.678	6.243	-6.243	0.0	0.435	0.097	
-6	6	6	7.453	3.127	3.127	0.0	4.326	1.066	
-4	6	6	4.386	5.288	-5.288	0.0	-0.902	-0.163	
0	6	6	10.107	7.332	7.332	0.0	2.775	0.803	