

Am-87-052

American Mineralogist, Volume 62, pages 979-989, 1977

Aristarainite: $\text{Na}_2\text{Mg}[\text{B}_6\text{O}_8(\text{OH})_4]_2 \cdot 4\text{H}_2\text{O}$: a sheet structure with chains of hexaborate polyanions

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Abstract

The rare sodium magnesium borate mineral aristarainite from Salta, Argentina, is monoclinic, space group $P2_1/a$, with $a = 18.886(4)$, $b = 7.521(2)$, $c = 7.815(1)$ Å, $\beta = 97.72(1)^\circ$, $Z = 2$. The atomic positions, including those of hydrogens, were determined by the symbolic addition method and difference Fourier syntheses, and refined by the method of least squares to an R factor of 0.036 for 1941 reflections, measured on a single crystal automatic diffractometer. The chemical composition has been revised to $\text{Na}_2\text{O} \cdot \text{MgO} \cdot 6\text{B}_2\text{O}_3 \cdot 8\text{H}_2\text{O}$, as opposed to $\text{Na}_2\text{O} \cdot \text{MgO} \cdot 6\text{B}_2\text{O}_3 \cdot 10\text{H}_2\text{O}$ reported by Hurlbut and Erd (1974).

Aristarainite contains the hexaborate polyanion $[\text{B}_6\text{O}_8(\text{OH})_4]^{4-}$, consisting of three borate triangles and three borate tetrahedra sharing corners. These polyanions are linked into infinite chains, $[\text{B}_6\text{O}_8(\text{OH})_4]^{2n-}$, parallel to the b axis, by sharing a common oxygen corner between a borate tetrahedron and a borate triangle belonging to two different but adjacent polyanions. Aristarainite provides the first example of such chains. Mg and Na, respectively in octahedral and distorted square-pyramidal coordination, bind these chains into sheets parallel to (001), which in turn are cross-linked by hydrogen bonds. The average bond distances (Å) are: Mg-O, 2.094; Na-O, 2.509; B-O tetrahedral, 1.471; triangular, 1.363; O-H, 0.89; H...O, 1.91; and O-H...O, 2.782. The average B-O bond, involving the oxygen bonded to three tetrahedrally coordinated borons, is significantly longer (1.517 Å) than the average tetrahedral B-O bond. All hydrogens are involved in hydrogen bonding except those belonging to one water molecule bonded solely to Na.

Introduction

Aristarainite, a new hydrated sodium magnesium borate from the Tincalayu borax deposit, Salta, Argentina, was first described by Hurlbut and Erd (1974), who named the mineral after L. F. Aristarain of Argentina for his contributions to borate mineralogy. At Tincalayu, it occurs in a matrix of borax and kernite, in association with halite and other borates, mcallisterite, rivadavaite, ezcurrite, ameghinite, kurnakovite, probertite, ulexite, ginorite, tincalconite, and the borosilicate searlesite.

Two of these borates, mcallisterite and rivadavaite, contain the isolated borate polyanion, $[\text{B}_6\text{O}_7(\text{OH})_6]^{2-}$, consisting of three borate tetrahedra and three borate triangles sharing corners (Dal Negro *et al.*, 1969; Dal Negro *et al.*, 1973). This polyanion has also been found in aksaite (Dal Negro *et al.*, 1971). These polyanions are polymerized into sheets in the structures of tunellite (Clark, 1964), and strontioginorite (Kon-

Christ, 1960), the isolated hexaborate polyanions can polymerize into chains by splitting out water molecules. Aristarainite provides the first example of such a polymerized chain of hexaborate polyanions.

Chemical composition

The chemical composition of aristarainite was reported by Hurlbut and Erd (1974) as $\text{Na}_2\text{O} \cdot \text{MgO} \cdot 6\text{B}_2\text{O}_3 \cdot 10\text{H}_2\text{O}$, with two formula units in the unit cell (space group $P2_1/a$). The structure determination indicates the presence of two independent water molecules and four different hydroxyl groups, resulting in a revised chemical formula, $\text{Na}_2\text{O} \cdot \text{MgO} \cdot 6\text{B}_2\text{O}_3 \cdot 8\text{H}_2\text{O}$. The calculated density for this composition (2.005 g cm^{-3}) is slightly less than the measured value (2.027 g cm^{-3}). A three-dimensional difference Fourier synthesis, calculated following the final refinement of the structure, was completely featureless, thus confirming the chemical composition of aristarainite reported here.

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
0	0	1	75.479	77.971	77.971	.690	-2.492	-9.4785	1.0000
0	0	2	34.634	37.220	37.220	.022	-2.586	-6.6473	1.0000
0	0	3	105.366	102.497	102.487	.188	2.879	6.2215	1.0000
0	0	4	7.218	9.061	9.061	.065	-1.844	-9.7397	1.0000
0	0	5	44.526	43.377	-43.377	-.073	1.149	3.1522	1.0000
0	0	6	7.018	5.942	5.942	.625	1.076	4.1464	1.0000
0	0	7	24.990	25.909	-25.909	.011	-.918	-5.3472	1.0000
0	0	8	6.913	8.308	8.308	.038	-1.395	-4.1904	1.0000
0	0	9	9.149	9.170	-9.170	-.011	-.020	-.0687	1.0000
0	0	1	80.653	82.653	-82.653	-.106	-2.000	-6.3461	1.0000
0	0	2	4.403	3.900	3.899	.027	.503	2.1114	1.0000
0	0	3	16.938	17.318	17.318	.047	-.380	-3.3890	1.0000
0	0	4	5.037	4.497	4.497	-.022	.540	2.1397	1.0000
0	0	5	20.363	19.704	19.704	.021	.659	4.7025	1.0000
0	0	6	5.973	5.323	-5.323	.023	.650	2.2629	1.0000
0	0	7	14.509	14.438	-14.438	-.024	.071	.3545	1.0000
0	0	8	1.644	.509	-.509	-.021	1.135	.9662	1.0000
0	0	9	12.595	12.190	-12.190	-.025	.405	1.5814	1.0000
0	0	1	44.526	46.475	46.475	.079	-1.949	-4.9637	1.0000
0	0	2	61.240	64.191	-64.191	.017	-2.951	-7.2583	1.0000
0	0	3	22.487	23.581	-23.581	.048	-1.094	-5.8860	1.0000
0	0	4	16.567	16.214	16.214	.075	.353	2.8763	1.0000
0	0	5	26.960	27.415	27.415	.077	-.455	-2.2380	1.0000
0	0	6	15.855	16.223	-16.223	.033	-.368	-2.3337	1.0000
0	0	7	3.607	2.770	2.769	.051	.838	1.8379	1.0000
0	0	8	4.154	4.042	-4.042	.032	.112	.2499	1.0000
0	0	9	24.187	23.781	23.781	.094	.406	2.1079	1.0000
0	0	1	4.764	3.517	3.517	-.009	1.246	5.6440	1.0000
0	0	2	25.141	24.666	24.666	.043	.475	2.4177	1.0000
0	0	3	35.717	35.938	35.938	.058	-.221	-.7594	1.0000
0	0	4	25.733	25.326	25.326	.016	.407	2.1111	1.0000
0	0	5	4.988	5.316	5.316	-.002	-.328	-.9957	1.0000
0	0	6	12.988	12.876	12.876	.040	.112	.5597	1.0000
0	0	7	7.772	7.373	7.373	.020	.399	1.3870	1.0000
0	0	8	15.266	14.730	14.730	.025	.536	2.3907	1.0000
0	0	9	20.034	19.253	-19.253	-.008	.780	5.5661	1.0000
0	0	1	32.692	33.144	33.144	.105	-.452	-1.7435	1.0000
0	0	2	7.333	7.947	7.946	.088	-.613	-3.0691	1.0000
0	0	3	3.418	2.586	-2.586	.022	.832	2.1386	1.0000
0	0	4	2.552	3.074	-3.074	.017	-.522	-.8973	1.0000
0	0	5	14.786	15.487	15.487	.104	-.702	-3.7764	1.0000
0	0	6	1.669	2.731	-2.731	.051	-1.063	-.9844	1.0000
0	0	7	1.644	.963	-.963	.013	.661	.5799	1.0000
0	0	8	22.126	21.286	21.286	.092	.840	3.9949	1.0000
0	0	9	17.306	15.265	-16.265	-.039	1.0	4.7893	1.0000
0	0	1	4.816	4.922	-4.922	.021	-.105	-.3663	1.0000
0	0	2	25.162	25.597	-25.597	-.054	-.435	-3.0248	1.0000
0	0	3	20.545	20.572	-20.571	-.062	-.026	-.1662	1.0000
0	0	4	1.760	1.327	1.327	.019	.433	.4626	1.0000
0	0	5	21.338	21.425	-21.425	-.026	-.067	-.4874	1.0000
0	0	6	2.219	2.443	-2.443	-.023	-.224	-.2565	1.0000
0	0	7	17.075	16.265	16.265	.039	.810	3.6656	1.0000
0	0	8	14.972	15.410	15.410	.074	.750		1.0000

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H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
0	6	1	19.813	20.075	20.075	.066	-.262	-1.5928	1.0000
0	6	2	1.472 *	.167	.166	.018	1.305	1.2409	1.0000
0	6	3	35.587	36.837	36.837	.099	-1.250	-4.4587	1.0000
0	6	4	5.542	5.911	5.910	.052	-.369	-1.0207	1.0000
0	6	5	24.896	25.033	25.033	.086	-.137	-.7255	1.0000
0	6	6	7.736	8.762	8.762	.052	-1.026	-3.2162	1.0000
0	7	1	23.150	23.222	-23.222	-.049	-.073	-.4142	1.0000
0	7	2	8.879	9.181	9.181	.015	-.302	-1.1649	1.0000
0	7	3	5.696	5.316	5.316	.010	.360	1.0630	1.0000
0	7	4	6.371	8.379	-8.379	-.008	-.008	-.0267	1.0000
0	7	5	5.044	5.268	-5.268	.000	-.224	-4.833	1.0000
0	8	0	27.759	28.534	-28.534	-.020	-.774	-4.0905	1.0000
0	8	1	3.155 *	3.071	-3.071	.022	.084	.1298	1.0000
0	8	2	7.158	5.906	-5.906	.019	1.252	3.8813	1.0000
0	8	3	6.250	7.517	7.517	.059	.833	2.6692	1.0000
0	8	4	11.866	11.439	11.439	.091	.427	1.6670	1.0000
1	1	0	26.604	30.653	30.653	.055	-2.048	-6.8747	1.0000
1	1	1	42.265	42.854	42.854	.132	-.589	-1.7517	1.0000
1	1	2	64.093	64.531	64.531	.109	-.438	-1.0684	1.0000
1	1	3	16.686	15.918	-15.918	-.001	.768	6.6348	1.0000
1	1	4	49.469	49.419	49.419	.135	.050	.1241	1.0000
1	1	5	29.267	29.081	29.081	.126	.185	.7893	1.0000
1	1	6	28.082	27.581	27.581	.056	.501	2.3817	1.0000
1	1	7	1.577 *	.596	.596	.026	.961	.8721	1.0000
1	1	8	13.482	13.236	13.235	.099	.246	1.1154	1.0000
1	1	9	5.679	5.180	5.180	.052	.499	1.1662	1.0000
1	2	0	4.746	3.719	-3.719	.007	1.028	2.0647	1.0000
1	2	1	5.489	5.495	5.495	.017	-.005	-.0125	1.0000
1	2	2	25.179	25.133	25.133	.085	.046	.2631	1.0000
1	2	3	16.360	16.372	16.372	.047	-.012	-.0699	1.0000
1	2	4	3.590	3.525	-3.525	.023	.065	.1636	1.0000
1	2	5	31.184	29.616	-29.616	-.036	1.568	5.8091	1.0000
1	2	6	40.235	39.813	-39.813	.014	.422	1.1355	1.0000
1	2	7	74.708	77.055	-77.055	-.086	-2.347	-5.1904	1.0000
1	2	8	60.814	81.623	-81.623	-.108	-.809	-2.0060	1.0000
1	2	9	61.198	62.957	62.957	-.101	-1.759	-4.5216	1.0000
1	2	0	103.824	108.264	-108.264	-.063	-4.440	-10.9260	1.0000
1	2	1	38.896	38.925	-38.925	-.089	-.029	-.0866	1.0000
1	2	2	1.199 *	2.556	-2.556	.024	-.1358	-1.5872	1.0000
1	2	3	11.028	10.470	10.470	.061	.558	3.4594	1.0000
1	2	4	16.185	15.520	-15.520	-.055	.665	4.2138	1.0000
1	2	5	21.338	21.161	21.161	.014	.177	1.0517	1.0000
1	2	6	27.272	27.973	-27.973	-.015	-.701	-3.5971	1.0000
1	2	7	8.080	6.762	-6.762	-.011	1.318	4.4230	1.0000
1	2	8	21.551	21.912	21.912	.104	-.361	-1.7733	1.0000
1	2	9	24.941 *	24.235	24.235	.110	.705	3.8704	1.0000
1	3	0	1.514 *	.388	-.388	.014	1.126	1.0429	1.0000
1	3	1	6.187	6.544	6.544	.042	-.357	-1.3223	1.0000
1	3	2	26.193	26.647	26.647	.120	-.455	-2.1618	1.0000
1	3	3	26.121	28.260	28.260	.080	-.139	-.6629	1.0000
1	3	4	3.646	1.888	-1.888	-.001	1.757	6.0399	1.0000
1	3	5	1.276 *	2.738	2.737	.074	-1.465	-1.0775	1.0000

H	K	L	F (DBS)	F (CALC)	A (CALC)	B (CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
1	3	1	75.759	76.124	-76.124	-.076	-.364	-.7423	1.0000
1	3	2	17.022	15.898	-15.898	.013	1.124	9.1647	1.0000
1	3	3	64.083	65.125	65.125	.174	-1.042	-1.8131	1.0000
1	3	4	7.442	8.543	8.543	.038	-1.101	-5.2333	1.0000
1	3	5	25.646	25.759	25.759	.058	-.114	-.6496	1.0000
1	3	6	16.347	18.035	18.035	.100	.312	1.7450	1.0000
1	3	7	4.210	4.230	4.229	.057	-.020	-.0420	1.0000
1	3	8	24.212	24.301	24.301	.077	-.089	-.4382	1.0000
1	4	-8	19.220	18.483	18.483	.047	.737	3.3931	1.0000
1	4	-7	6.622	5.750	-5.750	-.029	.872	2.5912	1.0000
1	4	-6	25.782	26.077	26.077	.029	-.294	-1.6787	1.0000
1	4	-5	24.545	24.745	24.745	.054	-.200	-1.2416	1.0000
1	4	-4	23.805	23.894	23.894	.035	-.068	-.5601	1.0000
1	4	-3	20.489	20.108	20.108	.011	.381	2.6493	1.0000
1	4	-2	18.851	18.450	-18.450	-.040	.441	3.3097	1.0000
1	4	-1	34.486	34.852	-34.852	-.033	-.365	-1.2402	1.0000
1	4	0	3.207	3.315	-3.315	-.034	-.108	-.3041	1.0000
1	4	1	52.311	52.406	-52.406	-.090	-.095	-.2328	1.0000
1	4	2	53.451	53.044	53.044	.086	.407	.9675	1.0000
1	4	3	19.942	20.057	20.056	.040	-.114	-.7941	1.0000
1	4	4	13.899	14.124	14.124	-.001	-.235	-1.3126	1.0000
1	4	5	20.587	20.805	20.805	.048	-.217	-1.2913	1.0000
1	4	6	32.029	32.329	32.329	.073	-.300	-1.2754	1.0000
1	4	7	3.281	.935	-.935	.006	2.346	4.0804	1.0000
1	4	8	13.839	13.656	13.656	.045	.183	.7471	1.0000
1	5	-7	23.662	23.451	23.450	.087	.211	1.0565	1.0000
1	5	-6	7.056	6.523	6.523	.038	.534	1.7299	1.0000
1	5	-5	11.799	12.150	12.150	.070	-.351	-1.6416	1.0000
1	5	-4	36.456	37.545	37.544	.137	-1.088	-3.7402	1.0000
1	5	-3	36.702	37.663	37.663	.105	-.961	-2.9793	1.0000
1	5	-2	13.156	12.818	-12.818	.011	.337	2.0054	1.0000
1	5	-1	51.554	52.451	52.451	.137	-.897	-1.9233	1.0000
1	5	0	42.503	43.325	43.325	.127	-.822	-2.1919	1.0000
1	5	1	27.234	27.878	27.878	.095	-.644	-3.2814	1.0000
1	5	2	4.399	3.875	-3.875	.044	.524	1.5423	1.0000
1	5	3	10.330	10.269	10.269	.070	.062	.3029	1.0000
1	5	4	3.569	3.385	-3.385	.033	.163	.3896	1.0000
1	5	5	9.100	8.825	-8.825	.015	.275	1.1192	1.0000
1	5	6	16.763	16.933	-16.933	.007	-.170	-.8342	1.0000
1	5	7	1.707	.138	-.128	.052	1.569	1.2860	1.0000
1	6	-6	6.881	6.571	6.571	.016	.310	.9128	1.0000
1	6	-5	2.317	2.558	-2.558	.025	-.241	-.2930	1.0000
1	6	-4	22.487	23.266	-23.266	-.056	-.778	-4.3538	1.0000
1	6	-3	25.285	25.810	-25.810	-.078	-.525	-3.1225	1.0000
1	6	-2	1.465	.020	-.020	-.001	1.446	1.3792	1.0000
1	6	-1	6.853	6.710	-6.709	.021	.144	.5390	1.0000
1	6	0	8.094	8.523	8.523	.002	-.429	-.1.8275	1.0000
1	6	1	8.981	8.770	8.770	.005	.211	.9420	1.0000
1	6	2	8.126	7.535	7.535	.026	.591	2.3402	1.0000
1	6	3	16.114	16.535	16.535	.043	-.421	-2.2641	1.0000
1	6	4	7.947	7.649	7.649	-.011	.238	1.0882	1.0000
1	6	5	3.057	.084	-.084	.006	2.972	4.8731	1.0000
1	6	6	5.272	4.862	4.862	.016	.410	.9430	1.0000

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H	K	L	F(CBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
1	7	-5	9.100	9.239	-9.239	.015	-.139	-.4733	1.0000
1	7	-4	6.765	7.271	-7.271	.009	-.505	-1.5009	1.0000
1	7	-3	25.414	24.902	24.902	.089	.513	2.7593	1.0000
1	7	-2	5.353	4.794	-4.794	.043	.559	1.5623	1.0000
1	7	-1	15.266	15.300	15.300	.058	-.034	-.1744	1.0000
1	7	0	2.243	2.035	2.035	.019	.209	.2729	1.0000
1	7	1	1.563	.292	.289	.045	1.271	1.1366	1.0000
1	7	2	7.330	8.024	-6.024	.024	-.694	-2.3856	1.0000
1	7	3	8.722	8.449	8.449	.021	.272	1.0090	1.0000
1	7	4	13.240	13.038	13.038	.062	.202	.8741	1.0000
1	7	5	16.903	17.167	17.167	.087	-.264	-1.1945	1.0000
1	8	-4	2.170	.430	.430	-.006	1.740	1.7792	1.0000
1	8	-3	5.051	4.823	4.823	.012	.229	.4979	1.0000
1	8	-2	7.726	8.321	-8.321	-.019	-.595	-1.9283	1.0000
1	8	-1	14.435	14.385	-14.385	-.033	.050	.2260	1.0000
1	8	0	9.426	8.959	-8.959	-.007	.467	1.7304	1.0000
1	8	1	4.063	1.571	-1.571	.010	2.492	5.0056	1.0000
1	8	2	1.686	3.171	-3.171	-.023	-1.465	-1.2314	1.0000
1	8	3	17.135	17.087	17.086	.057	.046	.2172	1.0000
1	8	4	3.877	2.275	2.274	.032	1.602	2.7705	1.0000
2	8	-9	5.984	6.893	-6.893	.007	-.910	-2.1989	1.0000
2	8	-8	29.530	29.200	29.199	.145	.330	1.7755	1.0000
2	8	-7	15.753	16.187	16.187	.088	-.434	-2.2496	1.0000
2	8	-6	19.185	19.738	-19.738	.006	-.553	-3.4266	1.0000
2	8	-5	18.176	18.605	18.605	.119	-.430	-2.9888	1.0000
2	8	-4	136.452	134.368	134.368	.258	2.084	3.8611	1.0000
2	8	-3	4.624	2.718	-2.718	-.013	1.906	8.2365	1.0000
2	8	-2	24.713	24.602	-24.602	.043	.111	.4596	1.0000
2	8	-1	33.673	36.656	-36.656	.115	-2.983	-9.7818	1.0000
2	8	0	22.740	24.969	24.969	.043	-2.229	-8.4779	1.0000
2	8	1	20.924	22.943	22.943	.016	-2.019	-9.5999	1.0000
2	8	2	25.639	27.323	-27.323	.096	-1.685	-6.5834	1.0000
2	8	3	40.614	44.496	44.496	.107	-3.863	-11.0759	1.0000
2	8	4	15.641	16.450	-16.450	-.024	.318	-6.0752	1.0000
2	8	5	13.973	13.654	-13.654	.033	.318	2.0184	1.0000
2	8	6	1.486	.249	.234	.084	1.237	1.1650	1.0000
2	8	7	16.483	16.345	16.345	.040	.138	.7273	1.0000
2	8	8	1.641	.817	-.817	.012	.824	.7036	1.0000
2	8	9	1.760	1.441	1.440	.049	.319	.2534	1.0000
2	8	-9	10.877	11.664	11.664	.045	-.787	-2.9139	1.0000
2	8	-8	3.197	4.244	-4.244	-.007	-1.047	-1.6879	1.0000
2	8	-7	21.639	21.188	-21.188	-.072	.451	2.5717	1.0000
2	8	-6	43.439	42.502	42.502	.085	.937	2.6461	1.0000
2	8	-5	13.591	12.699	12.699	.042	.852	5.6516	1.0000
2	8	-4	11.827	12.009	-12.009	-.062	-.182	-1.2366	1.0000
2	8	-3	13.685	13.181	-13.181	-.028	.504	4.2270	1.0000
2	8	-2	20.517	22.258	-22.258	.033	-1.741	-9.1959	1.0000
2	8	-1	11.231	11.485	11.485	-.004	-.253	-2.0083	1.0000
2	8	0	63.708	67.705	67.705	-.011	-3.997	-13.1065	1.0000
2	8	1	29.502	29.531	29.531	.057	-.030	-.1110	1.0000
2	8	2	39.731	37.603	37.603	.058	2.128	4.9352	1.0000
2	8	3	56.479	55.180	-55.180	-.106	1.299	2.5917	1.0000
2	8	4	10.716	10.709	-10.709	-.012	.007	.0446	1.0000

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
2	1	5	7.449	7.873	-7.873	.025	-.424	-1.9215	1.0000
2	1	6	15.669	15.310	-15.310	-.054	.359	2.0497	1.0000
2	1	7	33.193	33.269	-33.269	-.092	-.076	-.2735	1.0000
2	1	8	7.368	7.889	-7.889	.001	-.521	-1.6149	1.0000
2	1	9	18.396	17.485	-17.485	-.035	.911	3.9996	1.0000
2	2	-9	12.304	12.714	12.714	.066	-.410	-1.5795	1.0000
2	2	-8	24.556	25.088	25.088	.081	-.533	-2.7635	1.0000
2	2	-7	45.823	46.577	46.577	.133	-.754	-2.0893	1.0000
2	2	-6	2.696	2.183	-2.179	.045	.516	.8555	1.0000
2	2	-5	39.359	38.740	-38.740	-.032	.619	1.6580	1.0000
2	2	-4	23.315	23.090	23.090	.059	.225	1.2565	1.0000
2	2	-3	54.913	52.665	-52.665	-.014	2.247	4.3027	1.0000
2	2	-2	55.263	53.642	-53.642	.004	1.622	3.5311	1.0000
2	2	-1	35.110	35.662	35.662	.072	-.551	-1.8287	1.0000
2	2	0	14.947	15.330	15.330	.073	-.363	-2.7334	1.0000
2	2	1	46.570	45.788	46.787	.103	-.218	-.5096	1.0000
2	2	2	18.239	17.931	17.931	.065	.308	2.0902	1.0000
2	2	3	13.363	14.315	14.315	.062	-.952	-7.1465	1.0000
2	2	4	69.982	69.568	69.567	.162	.415	.6959	1.0000
2	2	5	18.403	18.488	18.488	.072	-.084	-.5459	1.0000
2	2	6	26.140	26.060	-26.060	-.005	.140	.7814	1.0000
2	2	7	19.091	18.671	18.671	.090	.420	2.2166	1.0000
2	2	8	16.159	9.954	9.953	.059	.205	.7800	1.0000
2	2	-8	7.572	8.084	-8.084	-.029	-.512	-1.5882	1.0000
2	2	-7	35.485	35.314	-35.314	-.081	.171	.6686	1.0000
2	2	-6	4.659	5.009	-5.009	-.017	-.350	-.9063	1.0000
2	2	-5	7.179	7.294	7.293	.021	-.114	-.4663	1.0000
2	2	-4	24.254	24.029	24.029	.008	.225	1.2585	1.0000
2	2	-3	31.577	31.696	31.696	.052	-.120	-.4548	1.0000
2	2	-2	84.614	84.442	84.442	.129	.172	.3294	1.0000
2	2	-1	3.660	3.734	-3.734	-.002	-.075	-.2698	1.0000
2	2	0	37.122	38.198	38.198	.008	-1.076	-3.0692	1.0000
2	2	1	24.159	23.840	-23.840	-.002	.319	1.7167	1.0000
2	2	2	25.667	25.468	-25.468	-.010	.198	.9273	1.0000
2	2	3	41.056	39.999	-39.999	-.071	1.056	3.0750	1.0000
2	2	4	4.403	3.858	3.858	.003	.544	1.7254	1.0000
2	2	5	37.168	36.998	-36.998	-.042	.170	.5269	1.0000
2	2	6	23.104	22.629	22.629	.037	.475	2.7651	1.0000
2	2	7	3.463	3.893	3.893	-.006	-.429	-.7704	1.0000
2	2	8	22.996	22.577	22.577	.069	.418	2.0229	1.0000
2	2	-8	1.735	3.012	-3.012	.005	-1.277	-1.0292	1.0000
2	2	-7	16.220	16.553	16.553	.072	-.334	-1.6128	1.0000
2	2	-6	3.773	4.308	4.308	.063	-.515	-1.0730	1.0000
2	2	-5	8.862	8.398	8.398	.034	.464	2.0057	1.0000
2	2	-4	14.491	14.371	14.371	.044	.121	.7324	1.0000
2	2	-3	27.661	28.079	28.079	.126	-.418	-1.8927	1.0000
2	2	-2	4.676	4.618	-4.618	.040	.059	.2168	1.0000
2	2	-1	28.029	29.163	29.163	.033	-1.133	-4.6190	1.0000
2	2	0	27.398	28.063	28.063	.091	-.665	-3.0113	1.0000
2	2	1	43.282	44.067	44.067	.132	-.786	-1.9153	1.0000
2	2	2	29.621	30.866	30.866	.063	-1.246	-4.8677	1.0000
2	2	3	1.809	1.375	1.375	.030	.434	.6094	1.0000
2	2	4	51.351	52.047	52.046	.160	-.696	-1.4076	1.0000

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H	K	L	F(CBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
2	4	5	43.797	43.306	43.306	.108	.451	1.2848	1.0000
2	4	6	6.902	7.506	-7.506	-.011	-.604	-1.9147	1.0000
2	4	7	4.718	4.379	4.378	.060	.339	.7686	1.0000
2	4	8	14.891	15.559	15.559	.083	-.668	-2.7629	1.0000
2	5	-7	7.845	7.752	-7.752	.019	.093	.2962	1.0000
2	5	-6	7.908	7.451	-7.451	-.025	.457	1.5912	1.0000
2	5	-5	11.116	11.768	11.768	.004	-.652	-3.0008	1.0000
2	5	-4	14.386	14.863	14.863	.047	-.477	-2.5650	1.0000
2	5	-3	15.806	15.687	-15.687	-.001	.119	.7048	1.0000
2	5	-2	9.675	9.204	9.204	-.020	.471	2.4862	1.0000
2	5	-1	19.105	19.248	-19.248	-.025	-.143	-.9718	1.0000
2	5	0	17.299	17.403	17.403	.051	-.104	-.6890	1.0000
2	5	1	35.983	36.159	-36.159	-.076	-.176	-.5909	1.0000
2	5	2	29.666	30.253	-30.253	-.074	-.586	-2.6132	1.0000
2	5	3	12.977	12.908	12.908	.055	.069	.3804	1.0000
2	5	4	6.997	6.779	6.779	-.002	.218	.7854	1.0000
2	5	5	33.151	33.533	-33.533	-.090	-.382	-1.5142	1.0000
2	5	6	15.939	15.995	15.995	.051	-.056	-.2627	1.0000
2	5	7	16.819	17.174	17.174	.050	-.355	-1.5824	1.0000
2	6	-6	4.389	5.015	-5.015	.002	-.626	-1.2143	1.0000
2	6	-5	15.634	15.525	15.525	.089	.109	.5284	1.0000
2	6	-4	2.513	4.359	-4.358	.053	-1.845	-2.6187	1.0000
2	6	-3	22.130	22.491	22.491	.087	-.361	-2.1030	1.0000
2	6	-2	12.423	12.188	12.187	.066	.236	1.2220	1.0000
2	6	-1	16.693	17.056	17.055	.097	-.363	-2.1120	1.0000
2	6	0	27.185	27.211	27.211	.084	-.026	-.1412	1.0000
2	6	1	7.074	7.862	7.862	.052	-.788	-2.9582	1.0000
2	6	2	1.500	2.115	2.114	.068	-.615	-.5730	1.0000
2	6	3	6.057	6.472	-6.472	.029	-.414	-1.2986	1.0000
2	6	4	15.649	18.855	-18.855	-.025	-.206	-1.0873	1.0000
2	6	5	4.760	3.958	3.957	.057	.803	1.8318	1.0000
2	6	6	7.365	7.276	7.276	.054	.089	.2676	1.0000
2	7	-5	2.871	1.197	-1.197	.002	1.674	2.3403	1.0000
2	7	-4	4.049	4.292	-4.292	.017	-.244	-.4761	1.0000
2	7	-3	6.590	6.801	-6.801	-.017	-.211	-.6394	1.0000
2	7	-2	11.883	11.523	-11.523	-.042	.361	1.6589	1.0000
2	7	-1	27.405	26.843	26.843	.051	.562	3.1445	1.0000
2	7	0	16.165	17.952	17.952	.035	.213	1.1459	1.0000
2	7	1	22.617	22.391	-22.391	-.037	.226	1.2668	1.0000
2	7	2	5.304	4.005	-4.005	-.018	1.258	3.5618	1.0000
2	7	3	10.905	9.980	9.980	.010	.926	3.8835	1.0000
2	7	4	11.452	11.719	-11.719	-.041	-.267	-1.0711	1.0000
2	8	5	1.942	1.528	-1.528	.004	.414	.3727	1.0000
2	8	-4	8.448	7.956	7.956	.056	.452	1.5602	1.0000
2	8	-3	6.401	6.998	6.998	.042	-.557	-1.5511	1.0000
2	8	-2	7.505	7.607	7.606	.043	-.101	-.3147	1.0000
2	8	-1	12.353	11.745	11.745	.079	.608	2.5491	1.0000
2	8	0	6.345	5.886	-5.886	.018	.459	1.2962	1.0000
2	8	1	14.421	14.534	-14.534	-.007	-.112	-.5009	1.0000
2	8	2	1.693	.790	-.790	.031	.903	.7466	1.0000
2	8	3	1.721	2.355	-2.355	.037	-.634	-.5154	1.0000
2	8	4	2.201	.258	-.258	-.001	1.943	1.9522	1.0000
2	8	5	3.264	2.575	-2.575	.021	.686	1.1264	1.0000
3	1	-8	*	*	*	*	*	*	*
3	1	-7	*	*	*	*	*	*	*
3	1	-6	*	*	*	*	*	*	*
3	1	-5	*	*	*	*	*	*	*
3	1	-4	*	*	*	*	*	*	*
3	1	-3	*	*	*	*	*	*	*
3	1	-2	*	*	*	*	*	*	*
3	1	-1	*	*	*	*	*	*	*
3	1	0	*	*	*	*	*	*	*
3	1	1	*	*	*	*	*	*	*
3	1	2	*	*	*	*	*	*	*
3	1	3	*	*	*	*	*	*	*
3	1	4	*	*	*	*	*	*	*
3	1	5	*	*	*	*	*	*	*
3	1	6	*	*	*	*	*	*	*
3	1	7	*	*	*	*	*	*	*
3	1	8	*	*	*	*	*	*	*
3	1	9	*	*	*	*	*	*	*
3	1	10	*	*	*	*	*	*	*
3	1	11	*	*	*	*	*	*	*
3	1	12	*	*	*	*	*	*	*
3	1	13	*	*	*	*	*	*	*
3	1	14	*	*	*	*	*	*	*
3	1	15	*	*	*	*	*	*	*
3	1	16	*	*	*	*	*	*	*
3	1	17	*	*	*	*	*	*	*
3	1	18	*	*	*	*	*	*	*
3	1	19	*	*	*	*	*	*	*
3	1	20	*	*	*	*	*	*	*
3	1	21	*	*	*	*	*	*	*
3	1	22	*	*	*	*	*	*	*
3	1	23	*	*	*	*	*	*	*
3	1	24	*	*	*	*	*	*	*
3	1	25	*	*	*	*	*	*	*
3	1	26	*	*	*	*	*	*	*
3	1	27	*	*	*	*	*	*	*
3	1	28	*	*	*	*	*	*	*
3	1	29	*	*	*	*	*	*	*
3	1	30	*	*	*	*	*	*	*
3	1	31	*	*	*	*	*	*	*
3	1	32	*	*	*	*	*	*	*
3	1	33	*	*	*	*	*	*	*
3	1	34	*	*	*	*	*	*	*
3	1	35	*	*	*	*	*	*	*
3	1	36	*	*	*	*	*	*	*
3	1	37	*	*	*	*	*	*	*
3	1	38	*	*	*	*	*	*	*
3	1	39	*	*	*	*	*	*	*
3	1	40	*	*	*	*	*	*	*
3	1	41	*	*	*	*	*	*	*
3	1	42	*	*	*	*	*	*	*
3	1	43	*	*	*	*	*	*	*
3	1	44	*	*	*	*	*	*	*
3	1	45	*	*	*	*	*	*	*
3	1	46	*	*	*	*	*	*	*
3	1	47	*	*	*	*	*	*	*
3	1	48	*	*	*	*	*	*	*
3	1	49	*	*	*	*	*	*	*
3	1	50	*	*	*	*	*	*	*
3	1	51	*	*	*	*	*	*	*
3	1	52	*	*	*	*	*	*	*
3	1	53	*	*	*	*	*	*	*
3	1	54	*	*	*	*	*	*	*
3	1	55	*	*	*	*	*	*	*
3	1	56	*	*	*	*	*	*	*
3	1	57	*	*	*	*	*	*	*
3	1	58	*	*	*	*	*	*	*
3	1	59	*	*	*	*	*	*	*
3	1	60	*	*	*	*	*	*	*
3	1	61	*	*	*	*	*	*	*
3	1	62	*	*	*	*	*	*	*
3	1	63	*	*	*	*	*	*	*
3	1	64	*	*	*	*	*	*	*
3	1	65	*	*	*	*	*	*	*
3	1	66	*	*	*	*	*	*	*
3	1	67	*	*	*	*	*	*	*
3	1	68	*	*	*	*	*	*	*
3	1	69	*	*	*	*	*	*	*
3	1	70	*	*	*	*	*	*	*
3	1	71	*	*	*	*	*	*	*
3	1	72	*	*	*	*	*	*	*
3	1	73	*	*	*	*	*	*	*
3	1	74	*	*	*	*	*	*	*
3	1	75	*	*	*	*	*	*	*
3	1	76	*	*	*	*	*	*	*
3	1	77	*	*	*	*	*	*	*
3	1	78	*	*	*	*	*	*	*
3	1	79	*	*	*	*	*	*	*
3	1	80	*	*	*	*	*	*	*
3	1	81	*	*	*	*	*	*	*
3	1	82	*	*	*	*	*	*	*
3	1	83	*	*	*	*	*	*	*
3	1	84	*	*	*	*	*	*	*
3	1	85	*	*	*	*	*	*	*
3	1	86	*	*	*	*	*	*	*
3	1	87	*	*	*	*	*	*	*
3	1	88	*	*	*	*	*	*	*
3	1	89	*	*	*	*	*	*	*
3	1	90	*	*	*	*	*	*	*
3	1	91	*	*	*	*	*	*	*
3	1	92	*	*	*	*	*	*	*
3	1	93	*	*	*	*	*	*	*
3	1	94	*	*	*	*	*	*	*
3	1	95	*	*	*	*	*	*	*
3	1	96	*	*	*	*	*	*	*
3	1	97	*	*	*	*	*	*	*
3	1	98	*	*	*	*	*	*	*
3	1	99	*	*	*	*	*	*	*
3	1	100	*	*	*	*	*	*	*

H	K	L	F(ORBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
3	1	-7	20.090	19.336	19.336	.094	.753	4.2987	1.0000
3	1	-6	5.703	4.852	4.852	.045	.851	2.8225	1.0000
3	1	-5	23.679	23.158	23.158	.045	.521	3.4543	1.0000
3	1	-4	62.952	81.871	81.871	.185	1.681	1.9518	1.0000
3	1	-3	61.564	80.736	80.736	.155	.826	1.7118	1.0000
3	1	-2	71.843	72.406	72.406	.078	-.566	-1.3557	1.0000
3	1	-1	60.826	61.715	61.714	.083	-.888	-2.4664	1.0000
3	1	0	35.226	36.570	36.570	.082	-.888	-3.8329	1.0000
3	1	1	15.091	14.663	14.663	.063	-.134	2.9744	1.0000
3	1	2	32.555	29.606	29.606	.010	2.949	9.1447	1.0000
3	1	3	39.815	38.393	38.393	.009	1.422	3.8268	1.0000
3	1	4	17.068	17.552	17.552	.101	-.484	-3.5399	1.0000
3	1	5	17.699	18.407	18.407	.057	-.768	-4.5933	1.0000
3	1	6	31.977	32.565	32.565	-.025	-.588	-2.3368	1.0000
3	1	7	47.046	47.008	47.008	.164	.038	.0931	1.0000
3	1	8	5.651	7.147	7.147	.072	-1.456	-3.8453	1.0000
3	2	-9	4.175	4.708	4.708	-.051	-.533	-.9564	1.0000
3	2	-7	2.619	3.556	3.556	.026	-.938	-1.2503	1.0000
3	2	-6	3.758	3.205	3.205	-.005	.553	1.1274	1.0000
3	2	-5	34.178	35.226	35.226	-.117	-1.048	-3.9344	1.0000
3	2	-4	3.842	2.719	2.719	.007	1.123	3.0210	1.0000
3	2	-3	70.810	69.231	69.231	.129	1.573	2.6961	1.0000
3	2	-2	87.057	85.139	85.139	-.154	1.918	3.6720	1.0000
3	2	-1	10.611	10.484	10.484	-.020	.127	.9547	1.0000
3	2	0	1.567	3.132	3.131	.057	-1.565	-2.5360	1.0000
3	2	1	9.587	10.190	10.190	.014	-.603	-4.6502	1.0000
3	2	2	12.311	12.163	12.163	-.072	.148	1.2779	1.0000
3	2	3	28.510	29.236	29.236	.041	-.725	-2.8778	1.0000
3	2	4	30.217	30.667	30.667	.074	-.450	-1.7842	1.0000
3	2	5	14.109	14.367	14.367	-.048	-.278	-1.8011	1.0000
3	2	6	23.974	24.069	24.069	-.058	-.095	-.6165	1.0000
3	2	7	45.956	47.409	47.409	.122	-1.453	-3.8025	1.0000
3	2	8	1.605	.803	-.803	-.007	.862	.7666	1.0000
3	2	9	14.099	14.599	14.598	-.071	-.560	-2.1605	1.0000
3	3	-7	6.601	6.286	6.286	.090	.314	.8708	1.0000
3	3	-6	13.594	14.533	14.533	.055	-.939	-4.4656	1.0000
3	3	-5	3.407	3.625	3.625	.041	-.218	-.4355	1.0000
3	3	-4	18.992	19.047	19.047	.112	-.054	-.3375	1.0000
3	3	-3	8.539	8.084	8.083	.025	.456	2.3636	1.0000
3	3	-2	56.178	53.415	53.415	-.048	2.763	4.7769	1.0000
3	3	-1	25.334	24.350	24.350	.061	.983	4.9212	1.0000
3	3	0	4.683	6.367	6.367	.067	-1.684	-7.1699	1.0000
3	3	1	26.543	25.604	25.604	-.016	.939	4.4635	1.0000
3	3	2	12.700	13.197	13.197	.077	-.497	-3.9350	1.0000
3	3	3	8.220	9.444	9.443	.089	-1.223	-7.2713	1.0000
3	3	4	11.635	12.458	12.458	.036	-.824	-5.3421	1.0000
3	3	5	34.315	35.214	35.214	.093	-.900	-2.9843	1.0000
3	3	6	58.966	59.460	59.459	.169	-.491	-.9665	1.0000
3	3	7	23.402	23.462	23.462	.083	-.060	-.3494	1.0000
3	3	8	7.758	8.012	8.012	.024	-.254	-.8536	1.0000
3	3	9	21.474	20.688	20.687	.094	.787	3.8033	1.0000
3	4	-8	8.813	8.282	8.282	.024	.530	1.7592	1.0000
3	4	-7	1.662	2.236	2.236	-.002	-.574	-.4831	1.0000

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H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
3	4	-6	4.182	3.621	3.621	.026	.561	1.2413	1.0000
3	4	-5	3.670	3.622	-3.622	.000	.048	.1096	1.0000
3	4	-4	19.126	18.392	18.392	.023	.733	4.7532	1.0000
3	4	-3	2.520	3.780	-3.780	.001	-1.260	-2.3645	1.0000
3	4	-2	36.079	37.451	37.451	.059	.629	1.7755	1.0000
3	4	-1	13.044	12.991	12.991	.011	.053	.3687	1.0000
3	4	0	12.244	11.815	-11.815	-.005	.430	2.9189	1.0000
3	4	1	25.250	25.177	-25.177	-.032	.072	.3755	1.0000
3	4	2	29.242	29.329	29.329	.026	-.087	-.3605	1.0000
3	4	3	6.829	7.094	-7.094	-.014	-.266	-1.1151	1.0000
3	4	4	18.803	18.848	18.848	.048	-.045	-.2764	1.0000
3	4	5	3.320	2.164	2.164	.001	1.156	2.1961	1.0000
3	4	6	5.707	5.978	-5.978	-.022	-.271	-.7645	1.0000
3	4	7	8.171	7.629	7.629	.024	.542	1.8206	1.0000
3	4	8	12.315	12.012	12.012	.046	.302	1.1496	1.0000
3	5	-7	15.193	14.913	14.913	.071	.279	1.2061	1.0000
3	5	-6	1.605	.240	.239	.022	1.366	1.1914	1.0000
3	5	-5	13.889	14.278	14.278	.059	-.389	-1.9824	1.0000
3	5	-4	49.416	50.047	50.047	.127	-.631	-1.4398	1.0000
3	5	-3	33.768	35.063	35.063	.099	-1.295	-4.3465	1.0000
3	5	-2	16.142	16.125	16.125	.076	.017	.1106	1.0000
3	5	-1	20.987	20.940	20.940	.082	.047	.3187	1.0000
3	5	0	10.572	10.985	10.985	.038	-.413	-2.3078	1.0000
3	5	1	12.104	12.357	12.356	.058	-.252	-1.4398	1.0000
3	5	2	1.413	2.260	-2.199	.044	-.787	-.7795	1.0000
3	5	3	23.784	23.655	-23.655	.000	.129	.8195	1.0000
3	5	4	1.693	.236	-.233	.036	1.457	1.5005	1.0000
3	5	5	24.096	24.177	-24.177	-.014	-.081	-.4503	1.0000
3	5	6	7.130	7.558	7.558	.055	-.428	-1.3130	1.0000
3	5	7	14.601	13.871	13.871	.072	.136	.5435	1.0000
3	6	-6	8.045	7.727	7.727	.029	.317	1.0532	1.0000
3	6	-5	18.291	18.575	18.575	.056	-.284	-1.4464	1.0000
3	6	-4	8.820	8.483	8.483	.016	.336	1.3322	1.0000
3	6	-3	5.041	4.411	-4.411	.010	.630	1.7798	1.0000
3	6	-2	3.071	3.490	-3.490	.000	-.419	-.7925	1.0000
3	6	-1	20.861	20.590	-20.590	-.050	.271	1.6440	1.0000
3	6	0	29.032	29.074	-29.074	-.051	-.042	-.1892	1.0000
3	6	1	3.057	4.330	-4.330	.014	-1.263	-2.3239	1.0000
3	6	2	29.465	29.521	-29.521	-.058	-.058	-.2760	1.0000
3	6	3	34.360	34.548	-34.548	-.074	-.188	-.6948	1.0000
3	6	4	1.956	2.320	-2.320	.013	-.364	-.3905	1.0000
3	6	5	2.408	4.134	-4.134	-.005	-1.726	-2.0342	1.0000
3	6	6	10.197	10.391	-10.391	-.032	-.194	-.7006	1.0000
3	6	7	4.329	5.878	-5.878	.008	1.549	-3.0270	1.0000
3	7	-5	11.175	10.563	-10.563	.010	.612	2.4952	1.0000
3	7	-4	9.966	9.646	-9.646	.027	.320	1.3216	1.0000
3	7	-3	7.929	8.249	-8.249	.000	-.320	-1.1698	1.0000
3	7	-2	7.449	7.567	-7.567	.030	-.116	-.4089	1.0000
3	7	-1	42.871	43.431	43.430	.143	-.559	-1.5193	1.0000
3	7	0	25.782	25.019	25.019	.094	.763	4.3549	1.0000
3	7	1	13.601	12.965	12.965	.059	.636	3.0742	1.0000
3	7	2	24.037	23.986	23.986	.115	.051	.2685	1.0000
3	7	3	31.833	31.354	31.354	.114	.479	2.2379	1.0000

STRUCTURE FACTORS

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H	K	L	F(DBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA SIGMA	EXT. FACTOR
3	7	5	5.966	5.247	-5.247	.014	.719	1.8316	1.5000
3	8	-4	3.607 *	3.370	-3.370	-.004	.237	.3773	1.0000
3	8	-3	7.312	7.270	7.270	.001	.042	.1299	1.0000
3	8	-2	2.009 *	.934	.934	-.012	1.075	1.0951	1.0000
3	8	-1	20.686	21.631	21.631	.053	-.946	-4.7344	1.0000
3	8	0	14.165	14.529	14.529	.016	-.364	-1.5966	1.0000
3	8	1	12.518	11.802	11.802	.017	.716	3.0493	1.0000
3	8	2	1.683 *	.533	.533	.000	1.149	.9558	1.0000
3	8	3	16.845	17.756	17.755	.043	1.090	5.0958	1.0000
3	8	4	3.663 *	4.230	4.229	.069	-.567	-.9187	1.0000
3	8	5	43.688	42.771	42.771	.127	.917	2.8117	1.0000
3	8	6	17.478	17.433	17.433	.039	.045	.2417	1.0000
3	8	7	7.691	7.796	7.796	.088	-.105	-.4348	1.0000
3	8	8	6.598	6.312	6.312	.069	.282	1.2169	1.0000
3	8	9	41.865	41.587	-41.587	-.037	.278	.6952	1.0000
3	8	0	95.698	94.559	94.599	.153	1.259	2.7047	1.0000
3	8	1	2.980	2.674	-2.674	.113	.306	.9180	1.0000
3	8	2	14.288	12.183	-12.183	.005	2.105	14.2984	1.0000
3	8	3	25.810	24.654	24.654	.031	1.156	4.3402	1.0000
3	8	4	54.727	55.440	55.439	.156	-.713	-1.8467	1.0000
3	8	5	71.567	73.171	-73.171	.014	-1.605	-3.6330	1.0000
3	8	6	18.926	17.833	17.833	.015	1.092	7.9909	1.0000
3	8	7	12.402	12.911	12.911	.061	-.509	-3.3754	1.0000
3	8	8	9.545	9.767	9.766	.083	-.221	-1.1481	1.0000
3	8	9	26.880	26.867	-26.867	-.036	.013	.0749	1.0000
3	8	0	15.694	15.605	15.605	.050	.069	.4518	1.0000
3	8	1	26.908	26.603	26.603	.131	.304	1.5784	1.0000
3	8	2	6.511	6.313	6.313	.017	.298	.7947	1.0000
3	8	3	17.692	16.921	-16.921	-.051	.771	3.8601	1.0000
3	8	4	31.766	32.252	-32.252	-.049	-.486	-2.3107	1.0000
3	8	5	16.234	15.425	-15.425	-.004	.808	4.7058	1.0000
3	8	6	53.857	52.891	-52.891	-.105	.966	2.1364	1.0000
3	8	7	19.013	19.233	-19.233	-.020	-.219	-1.6908	1.0000
3	8	8	51.277	50.085	50.085	.097	1.152	2.3788	1.0000
3	8	9	32.734	32.950	-32.950	-.041	-.216	-6.774	1.0000
3	8	0	45.753	45.170	-45.170	-.078	.563	1.4854	1.0000
3	8	1	66.228	65.545	65.545	.091	.663	1.6377	1.0000
3	8	2	30.389	30.740	-30.740	-.003	-.351	-1.1648	1.0000
3	8	3	17.972	17.875	-17.875	-.059	.098	.6474	1.0000
3	8	4	36.863	36.806	-36.806	-.058	.057	.1834	1.0000
3	8	5	17.737	16.716	-16.716	.008	1.021	7.4702	1.0000
3	8	6	17.797	17.185	-17.185	-.046	.612	3.8799	1.0000
3	8	7	14.898	15.588	-15.588	-.060	-.690	-3.7147	1.0000
3	8	8	34.735	34.329	34.328	.093	.407	1.6115	1.0000
3	8	9	18.765	19.727	19.727	.053	-.963	-4.5773	1.0000
3	8	0	6.471	7.459	-7.459	.012	-.988	-2.4725	1.0000
3	8	1	3.474	2.696	2.695	.046	.778	1.3452	1.0000
3	8	2	16.234	15.792	15.792	.064	.441	2.2890	1.0000
3	8	3	2.257 *	2.999	2.999	.045	-.742	-1.0321	1.0000
3	8	4	6.131	6.244	6.244	.048	-.113	-.4406	1.0000
3	8	5	31.293	30.396	30.396	.095	.897	3.2391	1.0000
3	8	6	23.830	24.263	24.263	.064	-.433	-2.2867	1.0000
3	8	7	56.045	54.988	-54.988	...			

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H	K	L	F (DBS)	F (CALC)	A (CALC)	B (CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
4	2	-1	25.786	26.671	26.671	.079	-.835	-4.2072	1.0000
4	2	0	57.377	58.093	58.093	.108	-.716	-1.6344	1.0000
4	2	1	51.242	52.662	52.662	.088	-1.419	-3.0911	1.0000
4	2	2	3.004	2.997	2.995	.056	.008	.0229	1.0000
4	2	3	36.463	37.206	37.206	.105	-.743	-2.2312	1.0000
4	2	4	46.519	48.905	48.905	.116	-.386	-.8612	1.0000
4	2	5	41.469	42.097	42.097	.108	-.628	-1.7733	1.0000
4	2	6	3.211	3.244	3.244	.063	-.033	-.0608	1.0000
4	2	7	6.545	6.144	6.143	.063	.401	1.2044	1.0000
4	2	8	9.601	9.668	-9.668	.003	-.066	-.2369	1.0000
4	3	-8	7.628	7.675	7.675	.002	-.047	-.1487	1.0000
4	3	-7	15.193	15.912	15.912	.042	-.719	-3.5376	1.0000
4	3	-6	6.580	8.141	8.141	.035	-1.562	-5.1798	1.0000
4	3	-5	24.286	25.199	-25.199	-.068	-.914	-5.3192	1.0000
4	3	-4	1.339	.577	.577	-.000	.762	.7963	1.0000
4	3	-3	15.859	14.752	-14.752	-.009	1.106	8.0916	1.0000
4	3	-2	5.248	4.263	4.263	-.003	.985	4.3888	1.0000
4	3	-1	4.333	4.816	4.816	-.020	-.484	-1.8905	1.0000
4	3	0	36.046	34.982	34.982	.065	1.064	3.5298	1.0000
4	3	1	9.275	8.566	8.566	.030	.710	4.6010	1.0000
4	3	2	7.950	8.388	8.388	-.002	-.438	-2.4975	1.0000
4	3	3	5.605	5.185	5.185	-.014	.420	1.7132	1.0000
4	3	4	30.304	30.689	30.688	.076	-.384	-1.5656	1.0000
4	3	5	25.726	26.435	-26.435	-.049	-.709	-3.4875	1.0000
4	3	6	47.930	48.593	-48.593	-.108	-.663	-1.6594	1.0000
4	3	7	7.439	7.299	7.299	.021	.140	.4374	1.0000
4	3	8	4.764	3.164	-3.164	-.001	1.600	3.3567	1.0000
4	4	-8	15.978	16.068	16.068	.097	-.051	-.3917	1.0000
4	4	-7	18.849	18.369	18.368	.102	.480	2.3607	1.0000
4	4	-6	8.571	8.612	-8.612	.012	-.041	-.1606	1.0000
4	4	-5	7.396	6.779	6.779	.056	.617	2.3487	1.0000
4	4	-4	33.252	33.630	33.630	.127	-.378	-1.3999	1.0000
4	4	-3	5.966	5.809	5.809	.048	.157	.6234	1.0000
4	4	-2	9.735	10.755	10.755	.044	-1.021	-5.9422	1.0000
4	4	-1	3.995	4.051	4.051	.078	-.055	-.1833	1.0000
4	4	0	35.384	35.727	35.727	.127	-.343	-1.1517	1.0000
4	4	1	12.700	13.271	13.271	.036	-.570	-3.7843	1.0000
4	4	2	1.868	.293	.291	.036	1.576	2.3908	1.0000
4	4	3	4.164	3.476	-3.475	.074	.689	1.9846	1.0000
4	4	4	6.418	6.309	-6.309	.036	.110	.3859	1.0000
4	4	5	19.655	20.191	-20.191	-.026	-.536	-3.0608	1.0000
4	4	6	4.873	5.033	-5.033	.041	-.160	-.3976	1.0000
4	4	7	6.881	7.157	-7.157	.034	-.276	-.8037	1.0000
4	4	-7	3.817	3.460	-3.459	-.029	.358	.6301	1.0000
4	4	-6	29.645	30.361	-30.361	-.079	-.716	-3.9256	1.0000
4	4	-5	2.135	2.501	-2.501	-.009	-.366	-.4584	1.0000
4	4	-4	13.499	13.058	13.058	.024	.441	2.2871	1.0000
4	4	-3	40.477	41.128	-41.128	-.101	-.651	-2.0176	1.0000
4	4	-2	17.348	17.397	17.397	.044	-.048	-.3064	1.0000
4	4	-1	63.599	64.707	64.707	.117	-1.108	-1.6632	1.0000
4	4	0	1.392	3.024	-3.024	-.022	-1.632	-1.6811	1.0000
4	4	1	16.731	17.112	17.112	.014	-.381	-2.4123	1.0000
4	4	2	14.106	14.551	14.551	.058	-.445	-2.5907	1.0000

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H	K	L	F(UBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
4	5	3	1.486 *	1.478	-1.478	-.009	.008	.0077	1.0000
4	5	4	2.387 *	1.556	1.555	-.018	.032	1.1687	1.0000
4	5	5	9.146	9.366	-9.366	-.014	-.221	-.8739	1.0000
4	5	6	20.363	20.292	-20.292	-.021	.071	.3542	1.0000
4	5	7	4.939	5.080	5.080	-.014	-.141	-.3007	1.0000
4	6	-6	3.944	4.268	4.267	.045	-.324	-.5886	1.0000
4	6	-5	28.215	28.634	28.634	.104	-.419	-.2.2545	1.0000
4	6	-4	16.359	11.195	11.195	.047	-.656	-3.5609	1.0000
4	6	-3	14.600	14.947	14.947	.067	-.347	-1.7997	1.0000
4	6	-2	43.033	43.906	43.906	.135	-.874	-2.2865	1.0000
4	6	-1	27.419	27.937	-27.937	-.017	-.518	-2.5457	1.0000
4	6	0	1.463 *	.518	.518	.029	.964	.9295	1.0000
4	6	1	21.204	20.901	20.901	.082	.363	1.8008	1.0000
4	6	2	5.518	5.687	5.687	.040	-.169	-.5139	1.0000
4	6	3	2.640 *	1.191	1.191	.024	1.448	2.2827	1.0000
4	6	4	26.399	26.607	26.607	.101	-.208	-1.1402	1.0000
4	6	5	2.520 *	2.383	-2.382	.041	.138	.1786	1.0000
4	6	6	14.600	14.447	14.447	.053	.153	.6419	1.0000
4	7	-5	1.707 *	.790	.790	-.004	.917	.7515	1.0000
4	7	-4	1.630	1.887	-1.887	-.003	-.257	-.2211	1.0000
4	7	-3	7.877	6.868	-6.868	-.012	1.008	3.5509	1.0000
4	7	-2	19.876	20.029	-20.029	-.032	-.153	-.8098	1.0000
4	7	-1	29.817	29.774	29.773	.067	.044	.2040	1.0000
4	7	0	19.862	19.753	15.753	.035	.168	.5835	1.0000
4	7	1	11.477	12.057	12.057	.023	-.560	-2.5449	1.0000
4	7	2	14.681	14.233	14.233	.046	.448	2.1302	1.0000
4	7	3	9.335	10.226	10.226	.020	-.891	-3.3010	1.0000
4	7	4	15.820	16.257	-16.257	-.051	-.437	-1.9500	1.0000
4	7	5	5.759	6.977	-6.977	-.031	-.217	-2.8942	1.0000
4	8	-4	2.745 *	1.801	-1.801	.014	.944	1.1711	1.0000
4	8	-3	14.632	14.449	-14.449	-.008	.163	.7890	1.0000
4	8	-2	4.848	5.509	5.509	.035	-.661	-1.4279	1.0000
4	8	-1	9.391	9.081	9.081	.043	.310	1.1201	1.0000
4	8	0	12.118	12.122	12.122	.050	-.004	-.0152	1.0000
4	8	1	23.234	22.371	22.371	.105	.863	4.3174	1.0000
4	8	2	18.831	18.065	18.065	.074	.766	3.5817	1.0000
4	8	3	3.803	3.897	3.896	.031	-.093	-.1554	1.0000
5	5	-9	7.726	6.574	6.574	.052	1.152	3.5331	1.0000
5	5	-8	13.850	14.456	14.456	.103	-.606	-2.7439	1.0000
5	5	-7	13.380	13.483	-13.483	.020	-.103	-.5057	1.0000
5	5	-6	9.321	8.937	8.937	.027	.364	1.7394	1.0000
5	5	-5	33.305	33.301	33.300	.106	.004	.0176	1.0000
5	5	-4	5.728	3.746	-3.745	.067	1.982	8.6985	1.0000
5	5	-3	42.763	40.677	40.677	.079	2.086	5.7212	1.0000
5	5	-2	50.050	51.410	51.410	.089	-1.359	-2.9602	1.0000
5	5	-1	34.504	33.093	33.093	.122	1.410	4.6250	1.0000
5	5	0	27.062	27.810	27.810	.066	-.748	-2.9638	1.0000
5	5	1	33.284	34.729	34.729	.046	-1.445	-4.5297	1.0000
5	5	2	61.618	59.971	-59.971	.011	1.647	3.3801	1.0000
5	5	3	13.608	14.613	14.613	.087	-1.005	-7.3499	1.0000
5	5	4	32.607	32.121	-32.121	-.034	.486	1.8748	1.0000
5	5	5	4.463	3.668	3.668	.047	.816	2.3264	1.0000
5	5	6	9.556	9.559	9.559	.068	-.002	-.0172	1.0000

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H	K	L	F (GBS)	F (CALC)	A (CALC)	B (CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
5	1	7	1.612 *	.763	-.763	.021	.830	.7193	1.0000 **
5	1	8	12.637 *	11.723	11.722	.062	.915	3.7270	1.0000
5	2	-9	1.753 *	.828	.828	.016	.925	.7366	1.0000 **
5	2	-8	3.551	2.128	2.128	.020	1.423	2.5373	1.0000
5	2	-7	21.579	21.961	-21.961	-.091	-.362	-2.0937	1.0000
5	2	-6	2.591 *	2.858	2.858	.006	-.268	-.4131	1.0000 **
5	2	-5	3.583	2.531	-2.531	.030	1.051	2.6307	1.0000
5	2	-4	1.301 *	1.134	-1.134	-.012	.165	.1790	1.0000
5	2	-3	9.002	9.549	-9.549	-.044	-.547	-3.3183	1.0000
5	2	-2	37.249	36.765	36.765	.091	.484	1.3400	1.0000
5	2	-1	44.435	44.476	44.476	.041	-.041	-.0882	1.0000
5	2	0	66.868	60.818	-60.818	-.108	.050	.1099	1.0000
5	2	1	17.036	16.939	16.938	.049	.058	.7544	1.0000
5	2	2	24.023	23.200	23.200	.079	.622	4.1155	1.0000
5	2	3	19.974	20.251	-20.251	-.071	-.277	-2.1337	1.0000
5	2	4	26.298	20.542	-26.542	-.045	-.245	-1.2030	1.0000
5	2	5	10.565	10.816	-10.816	.022	-.251	-1.2333	1.0000
5	2	6	13.864	13.888	-13.888	-.027	-.024	-.1206	1.0000
5	2	7	15.873	15.688	-15.688	-.049	.164	.8917	1.0000
5	2	8	14.618	15.332	-15.332	.003	.714	-3.0415	1.0000
5	3	-8	1.651 *	.394	-.394	.012	1.257	1.0673	1.0000 **
5	3	-7	16.584	16.972	-16.972	-.016	-.368	-1.9428	1.0000
5	3	-6	7.705	7.300	-7.299	.037	.465	1.5627	1.0000
5	3	-5	5.279	5.418	-5.418	.019	-.139	-.4393	1.0000
5	3	-4	16.181	15.892	-15.892	-.009	.289	1.9185	1.0000
5	3	-3	58.008	58.639	58.638	.162	-.631	-1.0585	1.0000
5	3	-2	22.393	21.936	21.936	.089	.457	2.7729	1.0000
5	3	-1	13.573	13.401	-13.401	-.012	.172	1.3277	1.0000
5	3	0	126.248	128.261	128.260	.220	-.2013	-3.8534	1.0000
5	3	1	67.076	66.350	66.350	.183	.726	1.3453	1.0000
5	3	2	2.489	2.396	-2.396	.011	.093	.1945	1.0000
5	3	3	28.766	29.488	29.488	.070	-.722	-3.1218	1.0000
5	3	4	8.574	9.344	9.344	.107	-.770	-3.5427	1.0000
5	3	5	2.436 *	1.241	-1.240	.044	1.195	1.7399	1.0000
5	3	6	15.687	15.952	15.952	.047	-.265	-1.3520	1.0000
5	3	7	6.685	6.429	-6.429	.043	.256	.7525	1.0000
5	3	8	7.014	7.678	7.678	.072	-.664	-1.8206	1.0000
5	4	-8	8.778	8.862	8.862	.037	-.084	-.2762	1.0000
5	4	-7	9.489	9.156	9.156	.014	.333	1.2349	1.0000
5	4	-6	28.005	29.447	29.447	.077	-1.442	-7.7619	1.0000
5	4	-5	15.610	16.318	16.318	.027	-.709	-3.8880	1.0000
5	4	-4	1.430 *	1.061	-1.061	.024	.369	.3617	1.0000
5	4	-3	7.158	6.705	-6.905	-.010	.253	1.1445	1.0000
5	4	-2	35.016	33.794	-33.794	-.068	1.221	4.3018	1.0000
5	4	-1	13.724	13.271	13.271	.012	.453	3.0766	1.0000
5	4	0	6.373	6.015	-6.015	.019	.357	1.6715	1.0000
5	4	1	46.331	45.767	-45.767	-.089	.564	1.2984	1.0000
5	4	2	11.347	11.406	11.406	.007	-.059	-.3457	1.0000
5	4	3	27.658	27.305	27.305	.058	.353	1.7076	1.0000
5	4	4	13.913	14.289	14.289	.027	-.376	-2.0223	1.0000
5	4	5	54.720	55.942	55.942	.086	-1.223	-2.1935	1.0000
5	4	6	5.766	5.986	5.986	.020	-.219	-.6012	1.0000
5	4	7	2.194 *	.797	.797	-.001	1.397	1.4814	1.0000 **

H	K	L	F (OBS)	F (CALC)	A (CALC)	B (CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
5	5	-7	21.990	22.554	22.554	.103	-.565	-2.7312	1.0000
5	5	-6	17.005	16.306	16.305	.091	.703	3.4564	1.0000
5	5	-5	10.117	10.251	-10.251	.011	-.134	-.5797	1.0000
5	5	-4	22.112	22.651	22.651	.080	-.539	-3.2011	1.0000
5	5	-3	23.076	23.094	23.094	.080	-.018	-.1143	1.0000
5	5	-2	4.021	4.257	4.257	.041	-.236	-.6184	1.0000
5	5	-1	6.979	7.078	-7.078	.016	-.059	-.4020	1.0000
5	5	0	6.374	7.868	7.868	.055	-.954	-4.1096	1.0000
5	5	1	16.777	17.233	-17.233	.014	-.456	-2.8302	1.0000
5	5	2	19.634	19.853	19.853	.063	-.219	-1.3583	1.0000
5	5	3	15.357	15.471	15.471	.045	-.114	-.6238	1.0000
5	5	4	40.074	40.480	40.480	.129	-.406	-1.1355	1.0000
5	5	5	1.784	1.429	-1.429	.038	.355	.3444	1.0000
5	5	6	1.676	1.241	-1.241	.026	.435	.3625	1.0000
5	5	7	9.048	7.940	7.940	.045	1.108	3.5914	1.0000
5	5	-6	15.266	15.802	-15.801	.056	-.535	-2.3500	1.0000
5	5	-5	4.613	5.014	-5.014	.043	-.401	-.9074	1.0000
5	5	-4	3.176	1.454	-1.454	.002	1.722	3.0703	1.0000
5	5	-3	1.693	.668	.668	.011	1.025	1.0331	1.0000
5	5	-2	14.541	14.734	-14.733	.059	-.193	-1.0196	1.0000
5	5	-1	11.480	11.577	-11.577	.031	-.097	-.4747	1.0000
5	5	0	5.595	6.077	-6.077	.013	-.483	-1.5296	1.0000
5	5	1	9.517	8.753	8.753	.012	.764	3.3041	1.0000
5	5	2	2.433	1.937	1.937	.021	.496	.7329	1.0000
5	5	3	12.174	11.500	11.500	.042	.674	3.1541	1.0000
5	5	4	2.612	1.512	-1.512	.019	1.099	1.5448	1.0000
5	5	5	1.676	1.207	-1.206	.032	.469	.3922	1.0000
5	5	6	1.865	1.251	1.251	.006	.614	.5262	1.0000
5	5	-5	7.225	6.969	6.968	.063	.256	.7450	1.0000
5	5	-4	20.493	19.929	19.929	.107	.563	2.8191	1.0000
5	5	-3	1.616	1.478	-1.478	.018	.138	.1192	1.0000
5	5	-2	1.570	1.604	1.603	.039	-.034	-.0299	1.0000
5	5	-1	1.574	.603	-.600	.063	.971	.8655	1.0000
5	5	0	1.998	1.478	1.477	.047	.521	.5778	1.0000
5	5	1	2.300	.649	.649	.019	1.650	2.1113	1.0000
5	5	2	3.204	4.808	4.807	.074	-1.604	-2.6141	1.0000
5	5	3	1.865	1.307	-1.306	.054	.558	.5358	1.0000
5	5	4	13.675	13.300	13.300	.053	.374	1.5704	1.0000
5	5	5	8.834	9.486	9.486	.065	-.652	-2.0443	1.0000
5	5	-3	8.858	6.977	6.977	.013	1.882	6.3151	1.0000
5	5	-2	4.049	4.055	-4.055	.011	-.006	-.0116	1.0000
5	5	-1	11.424	11.861	-11.861	.008	-.437	-1.7310	1.0000
5	5	0	10.842	10.560	-10.560	.031	.282	1.0870	1.0000
5	5	1	1.928	1.697	-1.697	.003	.231	.2182	1.0000
5	5	2	18.169	17.426	-17.426	.039	.743	3.4166	1.0000
5	5	3	2.997	4.298	-4.298	.016	-1.301	-1.7266	1.0000
5	5	-9	22.186	22.735	-22.735	.036	-.549	-2.6112	1.0000
5	5	-8	18.603	19.897	19.897	.052	-1.294	-6.3641	1.0000
5	5	-7	52.799	51.381	51.381	.197	1.417	3.1101	1.0000
5	5	-6	2.769	2.572	2.571	.058	.198	.3315	1.0000
5	5	-5	26.508	26.677	26.677	.051	-.169	-.9663	1.0000
5	5	-4	8.606	8.558	8.558	.064	.047	.2657	1.0000
5	5	-3	52.529	52.382	52.381	.163	.147	.2839	1.0000

H	K	L	F (DBS)	F (CALC)	A (CALC)	B (CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
6	0	-2	69.309	66.730	-66.730	-.051	2.563	5.5745	1.0000
6	0	-1	127.626	128.791	-128.791	-.066	-1.165	-2.7475	1.0000
6	0	0	56.188	56.682	56.682	.166	-.493	-1.1627	1.0000
6	0	1	35.790	37.376	-37.376	.023	-1.565	-4.8632	1.0000
6	0	2	113.285	109.143	-109.143	-.120	4.142	8.3805	1.0000
6	0	3	61.657	59.344	59.344	.187	2.313	4.1492	1.0000
6	0	4	44.999	45.098	45.097	.153	-.098	-.2701	1.0000
6	0	5	3.947	5.294	5.294	.035	-1.347	-3.4300	1.0000
6	0	6	4.056	4.163	4.163	.053	-.107	-.2371	1.0000
6	0	7	10.709	11.540	-11.540	.054	-.831	-3.4354	1.0000
6	0	8	9.626	9.021	-9.021	.006	.605	2.1044	1.0000
6	0	9	4.270	4.390	-4.390	.037	-.120	-.2244	1.0000
6	1	-8	8.231	9.057	9.057	.040	-.827	-2.8412	1.0000
6	1	-7	10.867	11.276	-11.276	-.012	-.410	-1.7978	1.0000
6	1	-6	6.234	8.154	-8.153	-.050	.061	.3332	1.0000
6	1	-5	20.808	20.266	-20.266	-.038	.542	3.6803	1.0000
6	1	-4	28.524	27.626	-27.626	.006	.897	3.5547	1.0000
6	1	-3	6.993	7.684	-7.684	-.027	-.691	-3.7180	1.0000
6	1	-2	37.473	35.449	-35.449	-.066	2.024	5.8917	1.0000
6	1	-1	40.950	40.806	-40.806	.005	.145	.3158	1.0000
6	1	0	33.603	33.696	33.696	.036	-.053	-.2866	1.0000
6	1	1	23.437	23.838	-23.838	-.069	-.401	-1.9719	1.0000
6	1	2	6.482	5.157	5.157	.032	1.324	6.9963	1.0000
6	1	3	81.669	81.347	81.347	.147	.323	.5715	1.0000
6	1	4	4.890	5.134	-5.134	-.035	-.244	-.8273	1.0000
6	1	5	2.156	.204	.203	-.013	1.952	2.7705	1.0000
6	1	6	2.587	.499	.499	.023	2.068	3.2019	1.0000
6	1	7	6.425	6.279	6.279	.012	.146	.4353	1.0000
6	1	8	3.253	2.545	2.545	-.003	.708	1.0357	1.0000
6	1	9	13.654	13.298	13.298	.076	.356	1.5376	1.0000
6	2	-7	9.605	8.973	8.973	.057	.632	2.5390	1.0000
6	2	-6	6.471	5.452	-5.452	.023	1.019	3.5871	1.0000
6	2	-5	16.682	16.908	-16.908	.030	-.226	-1.3988	1.0000
6	2	-4	19.224	18.861	18.861	.059	.363	2.5884	1.0000
6	2	-3	29.603	29.532	29.532	.075	.072	.3008	1.0000
6	2	-2	29.470	28.466	-28.466	.024	1.004	4.1496	1.0000
6	2	-1	15.547	15.372	15.372	.080	.175	1.5093	1.0000
6	2	0	97.808	100.694	100.694	.126	-2.865	-6.0082	1.0000
6	2	1	98.120	96.853	96.853	.158	1.268	2.5288	1.0000
6	2	2	69.225	67.904	67.904	.133	1.321	2.4310	1.0000
6	2	3	39.601	40.179	40.179	.097	-.378	-1.0681	1.0000
6	2	4	22.505	22.102	22.102	.066	.402	2.3917	1.0000
6	2	5	18.547	18.990	18.990	.078	-.443	-2.6318	1.0000
6	2	6	11.235	11.303	11.303	.045	-.069	-.3157	1.0000
6	2	7	1.651	2.254	-2.253	.024	-.603	-.5101	1.0000
6	2	8	9.367	8.898	8.898	.044	.468	1.5907	1.0000
6	2	9	8.977	9.321	9.321	.036	-.344	-1.1815	1.0000
6	3	-7	5.002	4.821	-4.821	-.012	.181	.4580	1.0000
6	3	-6	7.116	7.109	7.109	-.004	.007	.0230	1.0000
6	3	-5	7.312	6.855	6.855	-.001	.457	1.7863	1.0000
6	3	-4	6.187	5.418	-5.418	.004	.769	3.0452	1.0000
6	3	-3	13.016	13.126	-13.126	-.030	-.110	-.7292	1.0000
6	3	-2	20.310	20.142	-20.142	-.042	.169	1.1744	1.0000

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H	K	L	F(DRS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
6	3	-1	6.324	6.573	-6.573	.001	-.249	-1.2483	1.0000
6	3	0	56.115	55.567	55.567	.065	.548	1.0083	1.0000
6	3	1	10.769	11.061	11.061	-.013	-.293	-1.9406	1.0000
6	3	2	47.572	46.276	-46.276	-.058	1.296	3.0559	1.0000
6	3	3	44.158	45.162	45.162	.089	-1.004	-2.6781	1.0000
6	3	4	6.836	6.701	6.701	-.003	.135	.5257	1.0000
6	3	5	5.412	4.403	4.403	-.006	1.009	3.0304	1.0000
6	3	6	5.910	6.234	6.234	.027	-.324	-.9531	1.0000
6	3	7	7.032	7.439	7.439	.026	-.407	-1.1979	1.0000
6	3	8	15.729	15.578	-15.578	-.049	.150	.6310	1.0000
6	4	-8	10.777	16.907	16.907	.085	-.130	-.5718	1.0000
6	4	-7	7.389	7.327	7.327	.017	.063	.1946	1.0000
6	4	-6	30.267	31.108	31.108	.097	-.822	-4.1115	1.0000
6	4	-5	1.514	2.233	2.233	.078	-.719	-.6659	1.0000
6	4	-4	16.384	16.258	16.258	.059	.126	.7482	1.0000
6	4	-3	5.847	6.322	6.322	.015	-.475	-1.7584	1.0000
6	4	-2	6.779	6.871	6.871	.073	-.091	-.4143	1.0000
6	4	-1	8.869	9.065	-9.065	.042	-.196	-1.0558	1.0000
6	4	0	16.192	16.351	-16.351	-.023	-.160	-1.1112	1.0000
6	4	1	17.737	16.862	-16.862	.022	.675	6.0902	1.0000
6	4	2	18.849	19.004	19.003	.107	-.155	-1.0276	1.0000
6	4	3	1.893	1.303	1.303	.019	.590	.7316	1.0000
6	4	4	22.042	22.470	22.470	.055	-.423	-2.5958	1.0000
6	4	5	36.309	37.204	37.204	.138	-.895	-3.0752	1.0000
6	4	6	19.297	19.539	19.539	.092	-.242	-1.2115	1.0000
6	4	7	16.099	9.548	-9.548	-.003	.551	1.9911	1.0000
6	5	-7	3.144	3.584	3.584	-.000	-.440	-.6242	1.0000
6	5	-6	5.171	5.302	5.301	.054	-.131	-.3171	1.0000
6	5	-5	8.637	8.013	8.013	.018	.624	2.4730	1.0000
6	5	-4	13.356	12.987	-12.987	-.059	.369	1.8796	1.0000
6	5	-3	21.327	20.849	-20.849	-.019	.478	2.9652	1.0000
6	5	-2	31.191	31.726	-31.726	-.030	.535	-2.2119	1.0000
6	5	-1	17.755	18.486	-18.486	-.071	-.731	-4.6333	1.0000
6	5	0	1.416	3.034	3.034	.000	-1.617	-1.6021	1.0000
6	5	1	6.955	7.102	7.102	.047	-.148	-.5771	1.0000
6	5	2	8.722	8.352	-8.352	-.024	.370	1.6232	1.0000
6	5	3	15.704	16.538	16.538	.013	-.834	-4.5730	1.0000
6	5	4	14.877	14.862	14.861	.051	.015	.0787	1.0000
6	5	5	1.623	1.174	-1.174	.001	.449	.3870	1.0000
6	5	6	9.149	8.446	-8.445	-.036	.704	2.5091	1.0000
6	5	-6	16.879	15.558	15.557	.090	1.321	6.0784	1.0000
6	5	-5	3.383	2.876	2.876	.028	.507	.8765	1.0000
6	5	-4	2.548	2.165	-2.164	.053	.384	.5586	1.0000
6	5	-3	10.744	10.673	10.673	.079	.071	.3213	1.0000
6	5	-2	22.438	22.345	22.345	.076	.094	.5447	1.0000
6	5	-1	6.958	6.660	-6.660	.018	.298	1.1183	1.0000
6	5	0	8.462	8.757	8.757	.091	-.295	-1.2209	1.0000
6	5	1	15.473	15.188	-15.188	.008	.265	1.5319	1.0000
6	5	2	17.043	18.580	-18.580	-.000	-1.537	-8.2727	1.0000
6	5	3	9.728	10.031	-10.031	.028	-.303	-1.2546	1.0000
6	5	4	4.757	5.027	5.027	.058	-.270	-.6422	1.0000
6	5	5	4.837	4.409	4.409	.042	.429	.9334	1.0000
6	5	6	2.177	3.675	-3.675	.050	-1.448	-1.4294	1.0000
6	6	6	*						**

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
6	7	-5	1.714 *	2.269	2.269	.007	-.555	-.4538	1.0000 **
6	7	-4	3.141 *	3.482	-3.482	-.013	-.341	-.5261	1.0000 **
6	7	-3	12.237	12.636	12.636	.027	-.399	-1.7248	1.0000 **
6	7	-2	3.025 *	3.593	-3.593	-.001	-.568	-.9304	1.0000 **
6	7	-1	2.352 *	1.902	-1.902	.003	.450	.5859	1.0000 **
6	7	0	1.591 *	2.362	2.362	.008	-.770	-.6784	1.0000 **
6	7	1	23.003	23.787	-23.787	-.055	2.227	-4.2201	1.0000 **
6	7	2	2.569 *	.343	-.343	.007	1.042	3.0106	1.0000 **
6	7	3	9.735	10.776	10.776	.014	-.548	-3.9098	1.0000
6	8	4	9.882	9.284	-9.284	-.034	.598	2.1587	1.0000
6	8	-3	26.955	27.412	27.412	.116	1.543	7.7237	1.0000
6	8	-2	6.367	7.819	7.819	.054	.548	1.7977	1.0000
6	8	-1	24.794	25.271	25.271	.087	-.477	-2.3865	1.0000
6	8	0	23.833	22.472	22.472	.111	1.362	6.6972	1.0000
6	8	1	20.247	19.989	19.989	.081	.258	1.2285	1.0000
6	8	2	18.929	19.234	19.234	.075	-.305	-1.3816	1.0000
6	8	3	1.791 *	1.960	1.960	.022	-.168	-.1317	1.0000 **
7	1	-9	21.874	23.174	23.173	.110	-1.300	-6.0790	1.0000 **
7	1	-8	2.201 *	.839	.839	.017	1.363	1.5426	1.0000 **
7	1	-7	9.808	10.052	10.052	.062	-.244	-1.0090	1.0000
7	1	-6	7.162	7.383	7.383	.072	-.222	-.8211	1.0000
7	1	-5	8.266	8.401	-8.401	.037	-.135	-.6306	1.0000
7	1	-4	7.442	6.663	-6.663	.001	1.063	3.9003	1.0000
7	1	-3	1.248 *	.184	.176	.055	.894	5.4267	1.0000 **
7	1	-2	21.821	20.927	-20.927	.052	1.461	-5.1456	1.0000
7	1	-1	33.578	35.040	35.039	.071	1.833	3.6443	1.0000
7	1	0	49.623	47.790	-47.790	-.025	.657	1.3192	1.0000
7	1	1	53.507	52.850	52.850	.144	.349	.6418	1.0000
7	1	2	50.660	50.312	50.312	.110	1.654	4.7668	1.0000
7	1	3	38.332	36.678	-36.678	-.042	.119	.2526	1.0000
7	1	4	47.804	47.685	47.685	.125	-.527	-4.1880	1.0000
7	1	5	42.766	44.293	44.293	.166	-.458	-1.4046	1.0000
7	1	6	6.113	6.571	-6.571	.006	-.383	-1.7344	1.0000
7	1	7	13.990	14.373	14.373	.049	-.172	-.8446	1.0000
7	1	8	28.594	28.765	28.765	.121	.804	1.3735	1.0000
7	1	8	3.526	2.722	-2.722	-.029	1.091	1.8096	1.0000
7	2	-7	3.127 *	2.036	2.035	.032	.365	1.8274	1.0000 **
7	2	-6	12.132	11.767	11.767	.028	-.059	-.2305	1.0000
7	2	-5	30.813	30.872	30.872	.014	.412	2.7963	1.0000
7	2	-4	16.405	15.994	15.994	.008	.503	1.2160	1.0000
7	2	-3	44.750	44.247	44.247	.097	1.165	4.1525	1.0000
7	2	-2	31.580	30.416	30.416	.015	.272	1.4650	1.0000
7	2	-1	22.547	22.275	-22.275	-.069	2.865	13.2737	1.0000
7	2	0	27.921	25.036	-25.036	-.012	.843	6.0141	1.0000
7	2	1	11.810	10.967	-10.966	-.009	1.166	2.0415	1.0000
7	2	2	60.675	59.509	-59.509	-.139	1.160	-1.5542	1.0000
7	2	3	1.672 *	2.833	-2.833	-.010	.196	1.2697	1.0000
7	2	4	21.008	20.812	20.812	.063	.196	-.2416	1.0000
7	2	5	5.602	5.680	5.680	-.006	.156	.8534	1.0000
7	2	6	20.156	20.001	20.001	.103	-.036	-.1268	1.0000
7	2	7	36.418	36.454	36.454	.036	-.862	-2.4120	1.0000
7	2	8	7.186	8.049	8.048	.064	.148	.3951	1.0000
7	3	-8	6.142	5.993	5.993				

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
7	3	-7	23.273	22.205	22.204	.118	1.068	5.6414	1.0000
7	3	-6	7.305	6.537	-6.537	-.011	.768	2.8461	1.0000
7	3	-5	5.945	6.454	-6.454	.015	-.569	-1.6698	1.0000
7	3	-4	50.387	51.173	51.172	.165	-.766	-1.6604	1.0000
7	3	-3	36.754	36.746	36.745	.101	.008	.0265	1.0000
7	3	-2	14.271	14.851	14.851	.036	-.561	-4.0413	1.0000
7	3	-1	19.192	20.099	20.099	.092	-.907	-7.1894	1.0000
7	3	0	71.714	71.377	71.377	.164	.337	.5971	1.0000
7	3	1	17.941	18.138	18.138	.054	-.157	-1.4780	1.0000
7	3	2	15.263	15.605	15.605	.062	-.343	-2.3267	1.0000
7	3	3	36.064	36.451	36.451	.137	-.387	-1.2692	1.0000
7	3	4	11.789	12.123	-12.123	.017	-.334	-1.7023	1.0000
7	3	5	25.299	25.484	-25.484	-.030	-.166	-1.1044	1.0000
7	3	6	1.591	.260	.256	.045	1.332	1.1726	1.0000
7	3	7	7.817	7.893	-7.893	.035	-.076	-.2344	1.0000
7	4	-8	10.352	9.877	9.877	.047	.475	1.6717	1.0000
7	4	-7	16.297	17.021	-17.021	-.047	-.724	-3.3326	1.0000
7	4	-6	3.628	1.979	-1.979	-.018	1.649	3.2003	1.0000
7	4	-5	24.783	24.716	24.716	.076	.068	.4024	1.0000
7	4	-4	1.451	.195	-.195	.004	1.256	1.2103	1.0000
7	4	-3	11.414	11.109	-11.109	-.027	.305	1.6731	1.0000
7	4	-2	15.662	15.735	-15.735	-.016	-.072	-.4700	1.0000
7	4	-1	16.497	16.279	-16.279	.001	.217	1.4773	1.0000
7	4	0	3.313	3.733	-3.733	-.008	-.420	-1.0607	1.0000
7	4	1	20.177	19.575	-19.575	-.025	.602	4.1871	1.0000
7	4	2	20.650	20.460	-20.460	-.025	.151	1.2663	1.0000
7	4	3	23.511	23.972	-23.972	-.024	-.461	-2.9236	1.0000
7	4	4	52.750	53.794	-53.794	-.107	1.044	-2.3639	1.0000
7	4	5	1.598	.130	-.129	.016	1.468	1.2848	1.0000
7	4	6	8.567	8.672	8.672	.020	-.104	-.3634	1.0000
7	4	7	16.082	9.838	-9.838	-.017	.243	.8783	1.0000
7	5	-7	9.040	9.474	9.473	.067	-.433	-1.4885	1.0000
7	5	-6	18.347	18.252	18.251	.079	.096	.4716	1.0000
7	5	-5	8.553	9.610	-9.610	.011	-1.057	-4.0214	1.0000
7	5	-4	18.964	19.663	19.662	.103	-.658	-3.9058	1.0000
7	5	-3	2.485	2.165	-2.164	.046	.320	.4863	1.0000
7	5	-2	11.144	10.815	-10.815	.016	.329	1.6756	1.0000
7	5	-1	17.948	18.156	18.155	.069	-.208	-1.2882	1.0000
7	5	0	29.708	29.829	29.829	.101	-.121	-.5464	1.0000
7	5	1	30.410	30.040	-30.040	-.023	.370	1.5741	1.0000
7	5	2	18.610	18.312	-18.312	-.000	.299	1.7751	1.0000
7	5	3	10.278	11.037	-11.037	.020	-.759	-3.4379	1.0000
7	5	4	10.709	10.500	10.500	.056	.209	.9163	1.0000
7	5	5	23.970	24.446	24.445	.074	-.475	-2.5115	1.0000
7	5	6	11.273	11.208	11.208	.056	.066	.2535	1.0000
7	5	-6	1.721	1.909	-1.909	-.023	-.188	-.1528	1.0000
7	6	-5	1.641	2.421	2.421	.032	-.760	-.6664	1.0000
7	6	-4	15.641	15.421	15.421	.045	.220	1.1034	1.0000
7	6	-3	11.407	11.615	11.615	.009	-.209	-.9603	1.0000
7	6	-2	34.763	34.925	34.925	.065	-.162	-.5632	1.0000
7	6	-1	12.900	12.305	12.305	.042	.595	2.9781	1.0000
7	6	0	8.809	8.999	-8.999	-.030	-.150	-.7850	1.0000
7	6	1	19.374	18.604	-18.604				

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H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
7	6	2	5.808	6.773	-6.773	-.019	-.964	-2.8070	1.0000
7	6	3	8.746	8.102	8.102	.024	.644	2.3869	1.0000
7	6	4	12.188	12.259	12.259	.013	-.071	-.3028	1.0000
7	6	5	1.707	.722	-.722	-.004	.966	.8079	1.0000
7	7	-5	10.488	10.327	10.326	.049	.162	.5839	1.0000
7	7	-4	12.795	11.417	11.417	.047	1.378	5.8677	1.0000
7	7	-3	16.661	16.901	16.901	.070	-.240	-1.1401	1.0000
7	7	-2	12.195	12.573	12.573	.075	-.378	-1.6340	1.0000
7	7	-1	7.263	6.246	6.246	.032	1.017	3.3736	1.0000
7	7	0	14.565	14.525	14.525	.064	.040	.1897	1.0000
7	7	1	21.050	20.676	20.676	.088	.374	1.9393	1.0000
7	7	2	24.114	22.878	22.878	.107	1.236	6.4100	1.0000
7	7	3	9.570	10.155	10.155	.056	-.585	-2.1120	1.0000
7	7	4	4.901	4.813	4.813	.048	.087	.1845	1.0000
7	7	-3	7.393	7.611	7.611	.016	-.218	-.6287	1.0000
7	7	-2	16.376	9.547	9.547	-.001	.829	3.1121	1.0000
7	7	-1	1.683	1.962	-1.962	-.011	-.279	-.2324	1.0000
7	7	0	13.853	13.755	13.755	.046	.098	.4192	1.0000
7	7	1	2.233	1.420	-1.420	-.007	.813	.8626	1.0000
7	7	2	8.052	8.503	-8.503	-.036	-.451	-1.3541	1.0000
7	7	-9	1.753	1.675	-1.675	.026	.077	.0619	1.0000
7	7	-8	25.137	24.183	24.183	.099	.955	5.0428	1.0000
7	7	-7	72.096	74.330	74.330	.188	-.234	-3.9346	1.0000
7	7	-6	2.454	4.034	-4.034	-.003	-1.580	-2.2208	1.0000
7	7	-5	30.494	30.181	30.181	.111	.313	1.3325	1.0000
7	7	-4	79.349	79.006	79.006	.185	.342	.5615	1.0000
7	7	-3	36.597	35.656	-35.656	-.062	.941	2.8560	1.0000
7	7	-2	52.546	49.818	-49.818	-.046	2.728	5.2586	1.0000
7	7	-1	23.167	23.755	23.755	.120	-.588	-2.9427	1.0000
7	7	0	43.720	42.590	-42.590	-.006	1.129	2.2685	1.0000
7	7	1	16.752	15.820	-15.820	-.031	.932	7.5959	1.0000
7	7	2	8.613	7.268	-7.268	.058	.725	4.1390	1.0000
7	7	3	1.315	1.566	-1.566	.070	-.251	-.2675	1.0000
7	7	4	21.366	20.492	20.492	.025	-.874	5.7976	1.0000
7	7	5	46.792	49.043	49.043	.116	-.251	-.5875	1.0000
7	7	6	35.506	35.712	35.712	.175	-.206	-.7069	1.0000
7	7	7	12.868	13.189	13.189	.063	-.320	-1.4054	1.0000
7	7	8	25.996	24.145	24.145	.066	1.651	8.9487	1.0000
7	7	-9	8.802	8.316	-8.316	-.019	.486	1.5074	1.0000
7	7	-8	1.686	1.513	-1.513	-.015	.173	.1438	1.0000
7	7	-7	17.604	16.784	-16.784	-.052	.820	4.2545	1.0000
7	7	-6	6.226	5.744	5.744	.021	.481	1.5778	1.0000
7	7	-5	17.124	16.599	16.599	.054	.525	3.2548	1.0000
7	7	-4	7.729	7.193	-7.193	-.036	.536	2.5922	1.0000
7	7	-3	41.427	40.805	40.805	.036	.622	1.5292	1.0000
7	7	-2	55.200	53.497	53.497	.099	1.703	3.2172	1.0000
7	7	-1	48.151	46.483	46.483	.070	1.668	3.2586	1.0000
7	7	0	7.214	7.004	-7.004	-.049	.210	1.1749	1.0000
7	7	1	7.249	6.713	-6.713	.013	.536	3.0008	1.0000
7	7	2	37.925	36.889	-36.889	-.012	1.036	3.1112	1.0000
7	7	3	25.053	23.987	-23.987	-.059	1.066	5.6339	1.0000
7	7	4	5.868	5.893	-5.893	-.023	-.025	-.0876	1.0000
7	7	5	6.678	6.860	6.860	.062	-.183	-.6352	1.0000

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
8	1	6	12.125	12.681	-12.681	-.025	-.556	-2.5578	1.0000
8	1	7	1.662 *	2.469	2.469	-.020	-.608	-.6796	1.0000
8	1	8	12.090	11.578	11.578	.048	.513	1.9497	1.0000
8	2	-8	4.164	5.022	-5.022	.020	-.858	-1.6314	1.0000
8	2	-7	30.259	30.230	30.230	.110	.029	.1367	1.0000
8	2	-6	13.520	12.503	12.502	.077	1.018	5.0936	1.0000
8	2	-5	3.604	2.960	-2.960	.051	.643	1.4569	1.0000
8	2	-4	64.016	64.878	64.877	.154	-.861	-1.3284	1.0000
8	2	-3	70.480	70.433	70.433	.155	.047	.0795	1.0000
8	2	-2	1.711 *	1.515	-1.514	.058	.195	.2932	1.0000
8	2	-1	15.697	15.829	15.829	.066	-.132	-1.0171	1.0000
8	2	0	40.207	37.507	-37.507	.009	2.700	7.0020	1.0000
8	2	1	19.250	18.430	-18.430	.033	1.120	8.8730	1.0000
8	2	2	6.727	6.598	6.598	.058	.129	.6114	1.0000
8	2	3	19.830	19.264	-19.264	.011	.566	3.9400	1.0000
8	2	4	26.193	26.755	26.755	.104	-.563	-2.9159	1.0000
8	2	5	26.361	26.681	26.681	.092	-.320	-1.7231	1.0000
8	2	6	11.259	11.211	-11.211	.007	.049	.2143	1.0000
8	2	7	10.972	11.127	11.127	.075	-.155	-.5975	1.0000
8	3	-8	1.746 *	2.356	2.356	-.006	-.611	-.4894	1.0000
8	3	-7	3.691	2.449	2.449	.016	1.242	2.2712	1.0000
8	3	-6	7.070	7.700	-7.700	-.003	-.630	-2.1640	1.0000
8	3	-5	2.250 *	3.295	3.295	.025	-.1044	-1.4460	1.0000
8	3	-4	22.466	22.267	22.267	.013	-.635	-1.3235	1.0000
8	3	-3	1.357 *	1.991	-1.991	-.012	-.635	-.6610	1.0000
8	3	-2	28.194	28.051	-28.051	-.023	.143	.6375	1.0000
8	3	-1	5.787	6.758	6.758	.026	-.970	-4.1946	1.0000
8	3	0	16.654	17.054	-17.054	-.057	-.400	-2.9256	1.0000
8	3	1	42.629	42.130	42.130	.067	.459	1.4094	1.0000
8	3	2	4.981	3.709	3.709	.013	1.272	4.5355	1.0000
8	3	3	1.413 *	1.617	1.616	-.011	-.204	-.2019	1.0000
8	3	4	4.133	3.459	3.459	-.016	.674	1.6297	1.0000
8	3	5	24.457	24.512	-24.512	-.030	-.054	-.3164	1.0000
8	3	6	22.519	23.278	-23.278	-.063	-.759	-4.0114	1.0000
8	3	7	6.685	6.341	6.341	-.007	.343	.9798	1.0000
8	3	8	4.659	5.416	-5.416	.013	-.757	-1.5100	1.0000
8	4	-7	2.265 *	1.857	-1.857	.037	.407	.4539	1.0000
8	4	-6	9.500	10.501	10.501	.077	-1.001	-4.0237	1.0000
8	4	-5	14.165	14.473	-14.473	-.003	-.307	-1.5946	1.0000
8	4	-4	6.001	6.254	-6.254	.006	-.253	-.8592	1.0000
8	4	-3	17.534	17.706	17.706	.097	-.172	-1.0663	1.0000
8	4	-2	4.852	4.095	4.095	.072	.756	2.5081	1.0000
8	4	-1	6.446	6.089	-6.089	.011	.357	1.4771	1.0000
8	4	0	29.446	30.088	30.088	.091	-.642	-2.5096	1.0000
8	4	1	48.508	49.278	49.278	.158	-.770	-1.6272	1.0000
8	4	2	14.053	14.128	14.128	.061	-.075	-.4258	1.0000
8	4	3	19.206	19.199	-19.199	.061	.008	.0454	1.0000
8	4	4	18.428	18.189	18.189	.115	.238	1.3078	1.0000
8	4	5	20.703	20.473	20.473	.100	.230	1.2363	1.0000
8	4	6	10.278	10.337	-10.337	-.023	-.059	-.2231	1.0000
8	4	7	3.856	3.510	3.509	.057	.346	.5739	1.0000
8	4	8	11.533	10.920	10.920	.043	.613	2.3324	1.0000

H	K	L	F(DBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
8	5	-5	19.346	19.257	-19.257	-.059	.089	.4708	1.0000
8	5	-4	28.583	29.240	-29.240	.054	-.656	-3.2853	1.0000
8	5	-3	14.043	15.042	-15.042	-.016	-.959	-5.2796	1.0000
8	5	-2	24.352	24.262	-24.262	-.071	.090	.5260	1.0000
8	5	-1	17.534	17.916	-17.916	.028	-.362	-2.2697	1.0000
8	5	0	22.445	22.505	-22.505	.051	-.060	-1.3711	1.0000
8	5	1	2.345	3.112	-3.112	-.005	-.767	-1.1219	1.0000
8	5	2	3.533	2.137	-2.137	-.032	1.356	-2.9290	1.0000
8	5	3	11.224	11.748	-11.748	.047	-.523	-2.4084	1.0000
8	5	4	15.683	15.284	-15.284	.036	.559	2.9989	1.0000
8	5	5	14.344	13.787	-13.787	-.056	.557	2.5222	1.0000
8	5	6	3.228	2.519	-2.519	-.008	.709	1.0428	1.0000
8	6	-6	5.539	5.578	5.578	.034	-.039	-.0937	1.0000
8	6	-5	18.849	19.290	19.290	.069	-.441	-2.1700	1.0000
8	6	-4	14.050	12.740	-12.740	.057	1.309	6.1231	1.0000
8	6	-3	12.914	12.426	-12.426	-.000	.468	2.3220	1.0000
8	6	-2	19.238	19.443	-19.443	.070	-.205	-1.1270	1.0000
8	6	-1	2.706	2.274	-2.274	.039	.432	.6958	1.0000
8	6	0	18.232	17.688	-17.688	.063	.544	2.9821	1.0000
8	6	1	35.009	35.154	35.154	.093	-.145	-.5318	1.0000
8	6	2	11.463	11.935	-11.935	.059	-.472	-2.0721	1.0000
8	6	3	7.060	6.604	-6.604	.066	.456	1.4783	1.0000
8	6	4	15.017	14.711	-14.711	.058	.306	1.3862	1.0000
8	6	5	22.249	21.470	-21.470	.084	.779	3.7020	1.0000
8	7	-5	6.149	5.322	-5.322	.012	.826	2.0494	1.0000
8	7	-4	1.690	.757	-.757	.001	.932	.7730	1.0000
8	7	-3	17.997	17.959	-17.959	-.036	.037	.1813	1.0000
8	7	-2	3.467	3.349	-3.349	-.012	.118	.2057	1.0000
8	7	-1	1.826	1.738	-1.738	-.007	.088	.0859	1.0000
8	7	0	13.201	12.645	-12.645	.024	.557	2.4807	1.0000
8	7	1	26.084	26.519	-26.519	-.058	-.435	-2.2985	1.0000
8	7	2	8.318	8.077	-8.077	-.008	.242	.8202	1.0000
8	7	3	1.805	1.499	-1.499	.013	.306	.2661	1.0000
8	7	4	14.600	14.144	-14.144	.031	.456	1.8599	1.0000
8	8	-3	9.076	8.449	-8.449	.064	.627	2.0315	1.0000
8	8	-2	15.953	15.841	-15.841	.076	.112	.4841	1.0000
8	8	-1	15.908	15.278	-15.278	.086	.630	2.7223	1.0000
8	8	0	6.462	8.658	8.658	.066	-.156	-.6290	1.0000
8	8	1	4.228	3.832	-3.832	.048	.396	.7531	1.0000
8	8	2	9.910	10.225	10.225	.062	-.315	-1.0686	1.0000
8	8	3	3.130	4.063	-4.063	.021	-.933	-1.3935	1.0000
8	8	4	10.492	10.885	-10.885	.073	-.353	-1.6015	1.0000
8	8	5	1.535	.566	-.566	.055	.969	.8832	1.0000
8	8	6	5.994	5.771	-5.771	.019	.223	.7869	1.0000
8	8	7	13.026	12.822	-12.822	.039	.264	1.2362	1.0000
8	8	8	36.686	39.531	39.531	.142	-.845	-2.4107	1.0000
8	8	9	10.250	11.276	-11.276	.047	-.1026	-6.6547	1.0000
8	9	-1	7.421	6.518	-6.518	.018	.903	4.9541	1.0000
8	9	0	67.953	66.853	-66.853	.172	1.059	2.0496	1.0000
8	9	1	40.309	39.825	-39.825	.116	.463	1.4831	1.0000
8	9	2	8.445	8.495	8.495	.035	-.051	-.2728	1.0000
8	9	3	9.647	9.274	-9.274	.028	.373	1.9686	1.0000
8	9	4	19.332	19.557	-19.557	.107	-.224	-1.3914	1.0000

STRUCTURE FACTORS

PAGE 21

H	K	L	F (UBS)	F (CALC)	A (CALC)	B (CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
9	1	5	6.998	9.588	9.588	.034	-.590	-2.4393	1.0000
9	1	6	17.299	18.076	-16.076	-.008	-.777	-3.9560	1.0000
9	1	7	1.693	.322	.318	.048	1.371	1.1337	1.0000
9	2	-6	13.962	13.644	-13.644	-.028	.319	1.3770	1.0000
9	2	-7	1.627	.969	-.968	.028	.658	.5671	1.0000
9	2	-5	37.606	38.706	-38.706	-.106	-1.100	-3.6915	1.0000
9	2	-6	15.420	14.911	-14.911	-.019	.569	2.9035	1.0000
9	2	-4	5.886	5.593	5.593	.064	.292	1.0825	1.0000
9	2	-3	41.851	41.442	-41.442	-.073	.409	1.1327	1.0000
9	2	-2	3.495	3.142	-3.142	-.048	.353	1.0369	1.0000
9	2	-1	79.997	78.757	78.756	.156	1.241	2.2122	1.0000
9	2	0	15.441	15.717	-15.717	.018	-.276	-2.0189	1.0000
9	2	1	16.110	10.264	10.264	-.028	-.154	-.9372	1.0000
9	2	2	9.370	9.358	9.358	.018	.012	.0645	1.0000
9	2	3	12.637	12.708	12.708	.065	-.071	-.4068	1.0000
9	2	4	1.896	2.304	-2.304	-.030	-.408	-.4807	1.0000
9	2	5	1.949	.399	-.399	-.011	1.550	1.7899	1.0000
9	2	6	5.914	5.955	-5.955	.024	-.041	-.1174	1.0000
9	2	7	6.545	6.614	6.614	.022	-.069	-.1198	1.0000
9	3	-8	15.683	15.800	15.800	.094	-.117	-.5052	1.0000
9	3	-7	12.104	12.472	12.472	.056	-.368	-1.5654	1.0000
9	3	-6	2.324	.585	-.585	.017	1.739	2.2970	1.0000
9	3	-5	21.965	21.572	21.572	.096	.393	-2.3339	1.0000
9	3	-4	16.539	16.784	16.784	.067	-.245	-1.4586	1.0000
9	3	-3	28.450	29.177	29.177	.048	-.727	-3.3439	1.0000
9	3	-2	66.375	66.638	66.638	.169	-.263	-.4169	1.0000
9	3	-1	34.991	35.080	35.080	.114	-.089	-.2830	1.0000
9	3	0	6.215	6.120	6.120	.009	.095	.4189	1.0000
9	3	1	27.405	27.863	27.863	.081	-.457	-2.0712	1.0000
9	3	2	12.791	12.852	-12.852	.054	-.061	-.3531	1.0000
9	3	3	8.918	8.565	8.565	.024	.352	1.6211	1.0000
9	3	4	1.528	.176	-.176	.049	1.352	1.2362	1.0000
9	3	5	7.638	7.511	-7.511	.017	.128	.4501	1.0000
9	3	6	4.231	4.593	4.593	.050	-.362	-.7272	1.0000
9	3	7	2.131	1.187	1.187	.001	.945	.9357	1.0000
9	4	-7	9.717	8.708	-8.708	-.047	.945	3.7384	1.0000
9	4	-6	15.908	16.658	-16.658	-.060	1.009	-3.6901	1.0000
9	4	-5	10.467	9.877	-9.877	-.022	.750	2.6308	1.0000
9	4	-4	1.497	.650	.649	-.022	.847	.7923	1.0000
9	4	-3	26.406	26.634	26.634	.042	-.228	-1.2500	1.0000
9	4	-2	9.286	8.559	8.559	.006	.727	3.5757	1.0000
9	4	-1	23.171	23.290	23.290	.021	-.119	-.8094	1.0000
9	4	0	9.149	8.954	-8.954	-.020	.195	.9592	1.0000
9	4	1	3.533	2.957	2.957	.022	.576	1.3698	1.0000
9	4	2	26.573	20.081	20.081	.017	.492	3.0510	1.0000
9	4	3	2.748	1.446	-1.446	-.021	1.302	2.1354	1.0000
9	4	4	26.448	26.269	-26.269	-.044	.180	1.0468	1.0000
9	4	5	5.160	5.004	-5.004	-.009	.156	.3898	1.0000
9	4	6	21.152	21.084	-21.084	-.078	.068	.3323	1.0000
9	5	-7	6.923	6.258	6.257	.057	.666	1.8255	1.0000
9	5	-6	1.672	.238	.235	.041	1.434	1.1995	1.0000
9	5	-5	4.094	.238	.235	.036	.361	.7567	1.0000
9	5	-4	13.159	11.972	11.972	.058	1.187	.7700	1.0000

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H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
9	5	-3	26.052	26.522	-26.522	-.024	-.470	-2.8511	1.0000
9	5	-2	47.544	47.749	-47.749	-.048	-.205	-.4750	1.0000
9	5	-1	17.806	19.233	-18.232	.024	-.425	-2.4739	1.0000
9	5	0	12.588	12.387	-12.387	.014	.201	1.0624	1.0000
9	5	1	23.006	23.011	23.010	.087	-.005	-.0275	1.0000
9	5	2	26.083	26.650	26.650	.102	.033	.1871	1.0000
9	5	3	14.064	13.934	13.933	.083	.130	.6509	1.0000
9	5	4	13.173	12.996	12.996	.072	.177	.8013	1.0000
9	5	5	20.945	20.564	20.563	.105	.381	1.9081	1.0000
9	5	6	15.080	14.045	14.044	.082	1.036	4.4094	1.0000
9	6	-6	8.445	8.211	8.211	.026	.234	.7323	1.0000
9	6	-5	6.145	6.027	-6.027	-.011	.118	.3231	1.0000
9	6	-4	4.631	4.159	4.159	.000	.472	1.0602	1.0000
9	6	-3	3.320	3.658	-3.658	.002	.338	-.5994	1.0000
9	6	-2	10.951	10.787	10.787	.038	.164	.7194	1.0000
9	6	-1	26.697	26.393	26.393	.048	.305	1.7739	1.0000
9	6	0	16.342	17.091	17.091	.024	-.749	-3.8855	1.0000
9	6	1	10.348	11.392	11.392	.041	-1.044	-4.3783	1.0000
9	6	2	2.324	1.347	1.347	.012	.978	1.2561	1.0000
9	6	3	23.798	23.582	-23.582	-.083	.216	1.1437	1.0000
9	6	4	4.150	3.848	3.848	.018	.302	.5862	1.0000
9	6	5	3.684	2.638	2.638	.003	1.046	1.7050	1.0000
9	6	-4	22.592	23.432	23.432	.087	-.840	-3.9918	1.0000
9	7	-3	11.784	11.884	11.884	.085	-.120	-.4945	1.0000
9	7	-2	23.006	22.619	22.619	.080	.986	5.0242	1.0000
9	7	-1	11.827	11.988	11.988	.061	-.160	-.6726	1.0000
9	7	0	5.826	6.531	6.531	.060	-.705	-1.8803	1.0000
9	7	1	10.260	9.379	9.378	.058	.882	3.3542	1.0000
9	7	2	4.448	3.333	3.333	.008	1.116	2.3401	1.0000
9	7	3	1.963	1.605	-1.605	.045	.358	.3249	1.0000
9	7	-2	2.661	2.274	-2.274	-.016	.386	.4709	1.0000
9	8	-1	10.779	10.156	-10.156	-.014	.624	2.2806	1.0000
9	8	0	5.764	5.271	-5.271	-.007	.456	1.2403	1.0000
9	8	1	12.809	12.972	-12.972	-.053	.456	1.2403	1.0000
9	8	2	5.381	5.566	-5.565	.046	-.163	-.6296	1.0000
9	8	-7	18.166	18.787	-18.787	.049	-.185	-.4318	1.0000
9	8	-6	28.622	28.728	-28.728	.008	-.600	-3.1146	1.0000
9	8	-5	10.716	11.175	11.174	.088	-.459	-.4897	1.0000
9	8	-4	13.675	13.001	-13.001	-.011	.674	-2.2959	1.0000
9	8	-3	12.967	14.206	14.206	.059	-1.240	4.0913	1.0000
9	8	-2	23.329	22.792	22.791	.145	.537	-8.0389	1.0000
9	8	-1	56.397	53.168	53.168	.145	.537	3.1256	1.0000
9	10	0	20.063	20.063	20.063	-.047	3.729	6.6902	1.0000
9	10	1	77.246	76.920	76.919	.036	-.051	-.3828	1.0000
9	10	2	29.127	28.534	28.533	.183	.326	.5670	1.0000
9	10	3	11.060	11.548	11.548	.110	.553	2.4520	1.0000
9	10	4	35.635	36.787	36.786	.031	-.489	-2.6600	1.0000
9	10	5	31.034	32.016	32.016	.125	-.151	-.5021	1.0000
9	10	6	49.774	49.932	49.931	.117	-.963	-4.3806	1.0000
9	10	7	9.426	9.657	-9.657	.151	-.158	-.3760	1.0000
9	10	-8	14.555	14.554	14.554	.000	-.231	-.8045	1.0000
9	10	-7	29.421	28.802	28.802	.001	.000	.0013	1.0000
9	10	-6	35.570	35.801	35.801	.065	.619	3.3338	1.0000
9	10	-5				.094	-.251	-.8250	1.0000

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
10	1	-5	41.108	41.192	41.192	.042	-.084	-.2599	1.0000
10	1	-4	15.809	16.088	-16.088	-.046	-.279	-1.7667	1.0000
10	1	-3	23.634	24.182	-24.182	.064	-.548	-2.9512	1.0000
10	1	-2	42.044	40.696	-40.696	-.078	1.348	3.2321	1.0000
10	1	-1	41.368	41.188	-41.188	-.105	.179	.4412	1.0000
10	1	0	38.402	37.717	37.717	.071	.665	2.0343	1.0000
10	1	1	12.879	12.068	-12.068	.034	.811	5.5081	1.0000
10	1	2	16.511	16.376	-16.376	-.056	.134	.9131	1.0000
10	1	3	21.183	21.550	21.550	.030	-.366	-2.4309	1.0000
10	1	4	31.027	31.114	31.113	.081	-.087	-.3447	1.0000
10	1	5	21.569	22.476	22.476	.038	-.907	-5.0733	1.0000
10	1	6	7.361	7.875	-7.875	-.021	-.514	-1.6281	1.0000
10	1	7	2.720	1.736	-1.736	.014	.984	1.2535	1.0000
10	1	8	14.621	14.909	14.908	.079	-.287	-1.2426	1.0000
10	1	9	17.520	16.923	16.923	.068	.597	2.9387	1.0000
10	1	10	16.665	16.522	16.522	.066	.143	.7555	1.0000
10	1	11	12.584	12.706	12.706	.058	-.122	-.6216	1.0000
10	1	12	2.506	.827	-.825	.055	1.679	2.8346	1.0000
10	1	13	50.303	49.765	49.765	.113	.538	1.1720	1.0000
10	1	14	34.581	35.179	35.179	.096	-.558	-1.9182	1.0000
10	1	15	14.646	14.375	14.375	.073	.271	1.8388	1.0000
10	1	16	50.373	49.885	49.885	.126	.468	1.1499	1.0000
10	1	17	7.582	7.349	7.349	.039	.233	1.1449	1.0000
10	1	18	28.906	28.524	-28.524	.006	.381	1.6997	1.0000
10	1	19	16.342	15.852	-15.852	.027	.491	2.9774	1.0000
10	1	20	7.614	7.498	-7.498	.026	.115	.4451	1.0000
10	1	21	4.441	4.901	-4.901	.014	-.459	-1.0916	1.0000
10	1	22	3.078	3.133	3.133	.053	-.055	-.0873	1.0000
10	1	23	9.216	9.002	-9.002	.011	.214	.7085	1.0000
10	1	24	4.764	2.822	2.822	-.008	1.942	4.0441	1.0000
10	1	25	17.015	16.638	16.638	.040	.378	1.8257	1.0000
10	1	26	14.491	14.298	-14.298	-.016	.154	.9536	1.0000
10	1	27	13.429	14.381	-14.381	-.043	-.952	-4.7649	1.0000
10	1	28	31.906	32.572	-32.572	-.063	-.666	-2.8339	1.0000
10	1	29	12.613	12.673	12.673	.042	-.060	-.3445	1.0000
10	1	30	47.116	46.664	-46.664	-.073	.452	1.1938	1.0000
10	1	31	17.180	17.571	-17.571	-.055	-.351	-2.5964	1.0000
10	1	32	6.639	5.401	-5.401	-.001	1.238	5.3525	1.0000
10	1	33	16.314	16.679	-16.679	-.010	-.364	-2.3622	1.0000
10	1	34	28.468	28.737	-28.737	-.052	-.270	-1.1156	1.0000
10	1	35	12.686	13.817	13.817	.013	-.131	-5.8668	1.0000
10	1	36	22.403	21.757	21.757	.054	.647	3.7644	1.0000
10	1	37	5.721	6.672	6.672	.007	-.951	-2.6860	1.0000
10	1	38	15.606	14.837	-14.837	-.038	.770	3.4848	1.0000
10	1	39	12.083	10.619	10.619	.033	1.464	5.5692	1.0000
10	1	40	9.952	10.479	10.478	.078	-.527	-1.8548	1.0000
10	1	41	8.704	9.473	9.473	.045	-.769	-2.7773	1.0000
10	1	42	17.737	17.236	17.236	.066	.502	2.6501	1.0000
10	1	43	21.671	22.111	22.111	.111	-.441	-2.5647	1.0000
10	1	44	51.050	51.220	51.220	.129	-.170	-.4047	1.0000
10	1	45	21.835	21.968	21.968	.042	-.132	-.8392	1.0000
10	1	46	9.516	9.252	-9.252	.038	.258	1.2489	1.0000
10	1	47	13.682	13.503	13.503	.091	.179	1.0190	1.0000

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H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
10	4	1	18.645	17.910	17.910	.043	.735	4.4617	1.0000
10	4	2	13.394	13.684	-13.684	-.010	-.290	-1.5033	1.0000
10	4	3	22.690	22.578	22.578	.098	.312	1.8162	1.0000
10	4	4	11.946	11.922	11.922	.056	.024	.1074	1.0000
10	4	5	10.411	11.208	11.208	.043	-.757	-3.6729	1.0000
10	4	6	7.547	7.103	7.103	.058	.444	1.3337	1.0000
10	5	-7	3.744	4.349	4.349	.065	-.665	-1.0023	1.0000
10	5	-6	14.222	13.237	-13.237	-.038	.984	4.3190	1.0000
10	5	-5	6.559	6.421	-6.421	.009	.138	.4192	1.0000
10	5	-4	5.054	6.088	6.088	.021	-.433	-1.2122	1.0000
10	5	-3	12.160	13.035	-13.035	-.060	-.875	-4.1602	1.0000
10	5	-2	36.740	36.328	-36.328	-.055	.413	1.4014	1.0000
10	5	-1	15.764	15.865	15.865	.053	-.162	-.5573	1.0000
10	5	0	1.504	.644	.644	-.021	.860	.7989	1.0000
10	5	1	1.535	1.528	-1.528	-.014	.067	.0067	1.0000
10	5	2	14.505	14.965	14.965	.071	-.460	-2.3019	1.0000
10	5	3	28.418	28.977	28.977	.060	-.559	-2.8990	1.0000
10	5	4	5.745	4.945	4.945	-.005	.801	2.1154	1.0000
10	5	5	1.693	.866	.866	.006	.827	.6836	1.0000
10	6	-6	3.540	3.636	-3.636	.041	-.095	-.1492	1.0000
10	6	-5	1.907	2.275	-2.274	.048	-.366	-.3319	1.0000
10	6	-4	1.634	1.127	-1.127	.016	.506	.4336	1.0000
10	6	-3	2.513	2.323	-2.323	.038	.150	.2466	1.0000
10	6	-2	3.810	3.805	3.804	.056	.066	.0113	1.0000
10	6	-1	6.020	7.639	-7.639	.011	.182	.6647	1.0000
10	6	0	9.149	9.671	-9.671	.017	-.522	-.20965	1.0000
10	6	1	32.692	33.116	33.116	.146	-.425	-1.7312	1.0000
10	6	2	12.178	11.959	11.958	.054	.219	.9622	1.0000
10	6	3	6.693	8.060	8.060	.047	.633	2.1508	1.0000
10	6	4	8.255	8.132	8.131	.069	.124	.4056	1.0000
10	7	-4	18.077	17.182	17.182	.029	.895	4.0529	1.0000
10	7	-3	4.627	5.050	-5.050	-.028	-.423	-.8555	1.0000
10	7	-2	6.970	8.574	-8.574	-.024	.356	1.3957	1.0000
10	7	-1	1.679	1.571	-1.571	-.005	.108	.0900	1.0000
10	7	0	14.267	13.788	13.788	.030	.479	2.1333	1.0000
10	7	1	1.714	2.938	2.938	-.018	-1.224	-1.0005	1.0000
10	7	2	1.704	.004	.003	-.003	1.700	1.3973	1.0000
10	7	3	7.302	6.836	6.836	.026	.466	1.3710	1.0000
10	7	4	11.691	10.271	10.270	.064	1.420	5.3302	1.0000
10	8	0	1.788	.610	-.609	.020	1.178	.9232	1.0000
10	8	1	24.748	24.712	24.712	.117	.036	.1777	1.0000
11	1	-7	8.729	8.836	8.836	.064	-.108	-.3836	1.0000
11	1	-6	9.493	8.995	8.995	.038	.458	2.0577	1.0000
11	1	-5	5.710	6.716	-6.716	.020	-1.006	-3.1526	1.0000
11	1	-4	13.159	13.736	13.735	.071	-.576	-3.2871	1.0000
11	1	-3	15.550	15.264	-15.264	.004	.286	1.8542	1.0000
11	1	-2	3.916	4.161	4.161	.043	-.246	-.7377	1.0000
11	1	-1	25.232	23.380	-23.380	.034	1.652	9.7852	1.0000
11	1	0	42.020	41.674	41.673	.104	.345	.9869	1.0000
11	1	1	31.107	32.199	32.199	.068	-1.092	-4.1530	1.0000
11	1	2	41.171	41.095	41.095	.119	.076	.2286	1.0000
11	1	3	24.983	24.926	24.925	.107	.057	.3094	1.0000
11	1	4	13.363	14.246	14.246	.062	-.864	-4.5827	1.0000

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
11	1	5	1.570 *	2.127	-2.127	.031	-.557	-.4966	1.0000
11	1	6	14.712	14.770	14.770	.088	-.058	-.2652	1.0000
11	1	7	8.816	8.807	-8.807	.004	.009	.0303	1.0000
11	2	-8	5.384	4.826	4.826	.028	.559	1.3064	1.0000
11	2	-7	2.464 *	2.144	-2.144	.040	.320	.3901	1.0000
11	2	-6	12.367	11.897	11.896	.027	.471	2.1654	1.0000
11	2	-5	53.086	53.537	53.537	.125	-.451	-1.0376	1.0000
11	2	-4	1.472 *	2.959	2.959	-.004	-1.487	-1.4142	1.0000
11	2	-3	11.845	11.756	-11.756	-.036	.069	.4973	1.0000
11	2	-2	10.762	10.179	10.179	.051	.582	3.2572	1.0000
11	2	-1	25.516	25.304	25.304	.036	.212	1.1212	1.0000
11	2	0	40.789	40.678	-40.678	-.098	.111	.3013	1.0000
11	2	1	21.464	21.393	21.393	.036	.071	.4931	1.0000
11	2	2	11.182	10.858	10.858	.057	.324	1.7124	1.0000
11	2	3	26.709	28.854	-28.854	-.078	-.145	-.6062	1.0000
11	2	4	2.331 *	4.007	-4.007	-.029	-1.676	-2.2547	1.0000
11	2	5	16.009	16.234	16.234	.047	-.224	-1.1236	1.0000
11	2	6	11.407	11.208	11.208	.030	.159	.7996	1.0000
11	2	7	7.642	6.568	-6.568	-.058	1.074	3.2237	1.0000
11	2	8	2.801 *	.622	-.622	.023	2.259	2.9700	1.0000
11	3	-7	7.470	7.765	7.764	.078	-.295	-.9042	1.0000
11	3	-6	16.809	16.999	16.998	.116	-.190	-.9509	1.0000
11	3	-5	10.096	10.771	10.770	.058	-.675	-3.0560	1.0000
11	3	-4	21.569	21.714	-21.714	-.011	-.145	-.8783	1.0000
11	3	-3	9.906	10.416	10.416	.092	-.510	-2.4664	1.0000
11	3	-2	10.548	10.213	10.213	.074	.334	1.7663	1.0000
11	3	-1	25.123	24.920	-24.920	-.029	.203	1.1159	1.0000
11	3	0	25.204	26.034	26.034	.091	-.830	-4.3831	1.0000
11	3	1	36.327	36.498	36.497	.141	-.171	-.5415	1.0000
11	3	2	24.980	25.441	-25.441	-.020	-.464	-2.8063	1.0000
11	3	3	10.769	10.889	10.889	.033	-.120	-.5520	1.0000
11	3	4	34.273	35.205	35.204	.130	-.932	-3.5933	1.0000
11	3	5	4.091	3.862	3.862	.057	.228	.4653	1.0000
11	3	6	6.240	6.106	6.106	.024	.133	.3486	1.0000
11	3	7	5.553	6.904	-6.904	-.019	-1.352	-3.2130	1.0000
11	4	-6	13.969	14.046	-14.046	-.051	-.077	-.3417	1.0000
11	4	-5	2.282 *	1.152	1.152	-.017	1.130	1.4591	1.0000
11	4	-4	47.716	48.685	-48.685	-.089	-.969	-2.4462	1.0000
11	4	-3	9.892	9.087	9.087	.014	-.805	3.6459	1.0000
11	4	-2	6.040	6.981	6.981	.002	-.941	-3.1219	1.0000
11	4	-1	6.285	5.352	5.352	-.005	.933	3.2063	1.0000
11	4	0	24.706	24.747	24.747	.061	-.041	-.2325	1.0000
11	4	1	4.087	4.437	-4.437	-.026	-.349	-.8522	1.0000
11	4	2	16.987	16.497	-16.497	-.040	.491	2.7445	1.0000
11	4	3	25.698	26.150	26.149	.059	-.451	-2.6272	1.0000
11	4	4	14.032	14.367	-14.367	-.021	-.335	-1.5911	1.0000
11	4	5	11.245	12.094	-12.094	-.053	-.849	-3.3622	1.0000
11	4	6	1.746 *	.251	.251	.000	1.454	1.1975	1.0000
11	5	-6	5.823	4.867	-4.867	.013	.956	2.4127	1.0000
11	5	-5	7.824	7.638	-7.638	.012	.186	.6244	1.0000
11	5	-4	1.598 *	1.143	-1.143	.027	.455	.3982	1.0000
11	5	-3	46.959	46.559	46.559	.145	.399	1.1057	1.0000
11	5	-2	6.475	6.707	6.707	.000	.399	1.1057	1.0000

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H	K	L	F(UBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
11	5	-1	28.541	28.318	28.318	.084	.223	1.0982	1.0000
11	5	0	18.694	18.758	18.758	.078	-.063	-.3547	1.0000
11	5	1	15.939	14.963	14.962	.093	.977	5.1594	1.0000
11	5	2	23.202	22.636	22.636	.100	.567	3.1668	1.0000
11	5	3	23.690	23.809	23.809	.085	-.120	-.6432	1.0000
11	5	4	1.784	2.265	-2.265	.030	-.481	-.4397	1.0000
11	5	5	16.279	16.789	16.789	.095	-.510	-2.2368	1.0000
11	6	-5	4.021	3.308	3.308	.000	.713	1.2873	1.0000
11	6	-4	4.760	4.457	-4.456	.016	.304	.6719	1.0000
11	6	-3	3.677	3.840	-3.800	.016	-.123	-.2230	1.0000
11	6	-2	19.925	20.257	-20.257	-.057	-.332	-1.7211	1.0000
11	6	-1	23.981	23.348	-23.348	-.056	.633	3.4067	1.0000
11	6	0	2.079	1.892	-1.892	.036	.187	.2158	1.0000
11	6	1	1.627	1.433	-1.433	.002	.154	.1667	1.0000
11	6	2	19.455	18.040	-18.040	-.059	1.415	7.2105	1.0000
11	6	3	9.328	9.689	9.689	.029	-.361	-1.2568	1.0000
11	6	4	2.913	1.921	1.921	.042	.992	1.3344	1.0000
11	7	-4	14.323	13.488	13.488	.076	.835	3.4020	1.0000
11	7	-3	14.435	13.434	13.434	.057	1.001	4.2641	1.0000
11	7	-2	6.503	5.665	-5.665	.011	.637	2.2961	1.0000
11	7	-1	16.064	10.749	10.749	.068	-.665	-2.5063	1.0000
11	7	0	4.774	5.995	-5.995	.014	-1.221	-2.5804	1.0000
11	7	1	12.725	12.858	-12.858	-.020	-.133	-.5339	1.0000
11	7	2	5.069	3.476	-3.476	.020	1.592	3.5213	1.0000
12	0	-8	1.714	1.114	1.114	.020	.600	.4906	1.0000
12	0	-7	28.008	26.796	26.796	.124	1.213	6.5280	1.0000
12	0	-6	6.503	5.209	-5.209	.039	1.293	4.0986	1.0000
12	0	-5	61.419	60.551	-60.551	-.095	.868	1.6390	1.0000
12	0	-4	47.782	45.903	45.903	.115	1.879	4.6220	1.0000
12	0	-3	39.965	39.823	39.823	.143	.142	.4222	1.0000
12	0	-2	43.383	42.407	42.407	.091	.976	2.6277	1.0000
12	0	-1	6.972	6.673	6.673	.037	.299	1.3539	1.0000
12	0	0	68.650	70.414	70.414	.191	-1.763	-2.8422	1.0000
12	0	1	37.021	37.047	37.047	.119	-.027	-.0805	1.0000
12	0	2	62.575	60.533	60.533	.078	2.043	3.0507	1.0000
12	0	3	13.927	14.283	14.283	.078	-.356	-1.9547	1.0000
12	0	4	24.727	24.549	24.549	.125	.178	1.0604	1.0000
12	0	5	7.232	7.414	-7.414	-.012	-.183	-.6282	1.0000
12	6	6	1.756	3.028	3.028	.000	-1.272	-1.1030	1.0000
12	6	7	1.753	.276	-.269	.060	1.477	1.1802	1.0000
12	6	8	3.032	2.179	2.179	.027	.853	1.1760	1.0000
12	6	7	1.910	2.386	-2.386	.016	-.475	-.4548	1.0000
12	6	6	26.822	28.635	-28.635	-.070	.167	.9674	1.0000
12	6	5	11.480	10.823	10.823	.014	.658	3.1267	1.0000
12	6	4	26.971	26.722	26.722	.076	.249	1.2662	1.0000
12	6	3	4.469	4.383	4.383	.003	.066	.2459	1.0000
12	6	2	3.614	3.537	-3.537	-.031	.077	.1979	1.0000
12	6	1	16.430	16.288	-16.288	-.004	.141	.9386	1.0000
12	6	0	26.953	26.751	26.751	.060	.203	.9480	1.0000
12	6	1	1.381	.817	-.816	-.046	.564	.5727	1.0000
12	6	2	4.420	4.106	-4.106	-.017	.314	.8612	1.0000
12	6	3	16.500	16.488	16.488	.066	.012	.0669	1.0000
12	6	4	6.955	6.904	-6.904	-.035	.012	.0669	1.0000

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H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
12	1	5	4.533	4.316	-4.316	-.045	.217	.5024	1.0000
12	1	6	22.221	22.527	22.527	.081	-.306	-1.5338	1.0000
12	1	7	7.926	8.086	8.086	.020	-.160	-.4718	1.0000
12	2	-8	1.767	1.796	1.796	.032	-.029	-.0231	1.0000
12	2	-7	10.664	11.104	11.104	.059	-.440	-1.7207	1.0000
12	2	-6	32.600	32.757	32.757	.105	-.157	-.7324	1.0000
12	2	-5	4.827	5.183	5.182	.062	-.356	-.8897	1.0000
12	2	-4	40.642	41.125	41.125	.117	-.463	-1.4656	1.0000
12	2	-3	21.022	22.405	22.405	.069	-.383	-8.9666	1.0000
12	2	-2	1.648	1.360	-1.360	.034	.287	.3415	1.0000
12	2	-1	17.096	16.299	-16.299	.032	.757	5.1699	1.0000
12	2	0	8.178	7.930	-7.929	.017	.249	1.1628	1.0000
12	2	1	23.458	23.441	-23.441	.001	.017	.1140	1.0000
12	2	2	9.275	9.119	9.118	.061	.157	.7101	1.0000
12	2	3	34.504	34.903	-34.903	-.025	-.359	-1.3705	1.0000
12	2	4	3.744	4.965	4.964	.044	-1.221	-2.5056	1.0000
12	2	5	33.512	33.884	33.883	.140	-.372	-1.4725	1.0000
12	2	6	14.782	14.547	14.546	.078	.236	1.0348	1.0000
12	3	-7	10.089	11.160	11.159	.036	-1.071	-3.9167	1.0000
12	3	-6	9.997	10.396	-10.396	-.027	-.398	-1.5994	1.0000
12	3	-5	9.791	9.354	9.354	.008	.437	1.8604	1.0000
12	3	-4	16.910	17.916	17.916	.047	-1.006	-5.5167	1.0000
12	3	-3	13.159	12.742	-12.742	-.027	.417	2.2055	1.0000
12	3	-2	22.860	22.860	-22.860	-.043	.020	.1319	1.0000
12	3	-1	23.665	23.175	-23.175	-.029	.450	3.1075	1.0000
12	3	0	10.026	9.432	9.432	.027	.554	2.9211	1.0000
12	3	1	10.341	10.737	-10.737	-.044	-.356	-1.9464	1.0000
12	3	2	25.488	25.115	-25.115	-.048	.373	1.9018	1.0000
12	3	3	10.082	9.646	9.646	.051	.436	1.9118	1.0000
12	3	4	24.755	25.177	25.177	.069	-.421	-2.3576	1.0000
12	3	5	8.374	8.311	-8.311	-.039	.063	.2195	1.0000
12	3	6	12.634	13.290	13.290	.050	-.656	-2.6364	1.0000
12	4	-7	4.939	3.612	3.612	.036	1.327	2.7440	1.0000
12	4	-6	9.693	7.746	7.746	.042	1.947	7.2127	1.0000
12	4	-5	1.612	.933	-.931	.055	.680	.5912	1.0000
12	4	-4	17.545	18.224	-18.224	.009	-.679	-3.5881	1.0000
12	4	-3	2.342	2.064	2.064	.029	.278	.3752	1.0000
12	4	-2	3.407	3.252	3.252	.058	.155	.3205	1.0000
12	4	-1	11.053	11.344	11.343	.093	-.291	-1.3833	1.0000
12	4	0	2.969	3.320	-3.320	.010	-.351	-.6101	1.0000
12	4	1	26.223	20.886	20.886	.074	-.663	-3.8591	1.0000
12	4	2	12.262	11.294	11.293	.105	.968	4.6807	1.0000
12	4	3	2.485	3.885	-3.885	.038	-1.400	-1.9107	1.0000
12	4	4	1.627	.860	-.880	.006	.747	.6416	1.0000
12	4	5	22.663	22.601	22.601	.112	.062	.3039	1.0000
12	5	-6	9.111	8.702	8.702	.034	.408	1.3869	1.0000
12	5	-5	16.707	16.530	16.530	.044	.176	.8254	1.0000
12	5	-4	17.201	16.964	16.964	.017	.237	1.1649	1.0000
12	5	-3	25.407	25.257	25.257	.045	.150	.8384	1.0000
12	5	-2	5.363	4.205	4.205	.036	1.158	3.3041	1.0000
12	5	-1	5.574	5.899	-5.899	-.033	-.325	-.9376	1.0000
12	5	0	4.347	4.525	-4.525	-.038	-.178	-.4205	1.0000
12	5	1	12.199	13.328	-13.328	-.017	-1.130	-5.1970	1.0000

H	K	L	F(UBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
12	5	2	35.237	36.586	-36.586	-.080	-1.350	-5.0039	1.0000
12	5	3	24.481	14.487	-14.487	-.073	-.006	-.0266	1.0000
12	5	4	10.727	10.441	10.440	.034	.286	1.0881	1.0000
12	5	5	4.634	4.551	-4.551	.001	.083	.1640	1.0000
12	6	-5	2.931	.450	.490	.022	2.440	3.3793	1.0000
12	6	-4	6.461	6.313	-6.313	.017	.148	.4009	1.0000
12	6	-3	25.123	25.256	25.255	.112	-.132	-.6857	1.0000
12	6	-2	7.502	6.755	6.755	.053	.746	2.4477	1.0000
12	6	-1	16.623	16.592	16.592	.049	.030	.1474	1.0000
12	6	0	14.618	14.275	14.275	.075	.342	1.6270	1.0000
12	6	1	22.407	22.174	22.174	.095	.232	1.2056	1.0000
12	6	2	2.093	.697	-.697	.020	1.395	1.4370	1.0000
12	6	3	23.174	22.958	22.958	.092	.216	1.0621	1.0000
12	6	4	5.609	6.232	6.231	.057	-.623	-1.3884	1.0000
12	7	-3	3.085	3.588	3.588	.004	-.503	-.6863	1.0000
12	7	-2	6.806	8.683	-8.683	-.027	.122	.4007	1.0000
12	7	-1	13.780	13.488	-13.488	-.049	.292	1.2423	1.0000
12	7	0	8.259	7.246	-7.246	-.025	1.013	3.3219	1.0000
12	7	1	4.501	4.073	-4.073	-.016	.428	.8664	1.0000
12	7	2	7.698	8.006	-8.006	-.020	-.308	-.8969	1.0000
13	0	6	1.690	.000	-.000	.000	1.650	1.4012	1.0000
13	1	-7	8.529	8.427	8.426	.047	.102	.3166	1.0000
13	1	-8	5.819	5.100	5.100	.042	.719	1.8992	1.0000
13	1	-6	35.647	35.134	35.134	.135	.512	1.9230	1.0000
13	1	-5	24.727	24.355	-24.355	.012	.372	2.2120	1.0000
13	1	-4	15.154	15.179	15.179	.042	-.025	-.1392	1.0000
13	1	-3	13.811	13.629	13.628	.065	.183	1.0222	1.0000
13	1	-2	2.037	2.193	2.192	.071	-.156	-.2194	1.0000
13	1	-1	4.476	4.101	4.101	.043	-.375	1.1153	1.0000
13	1	0	1.476	2.317	-2.317	.007	-.841	-.7975	1.0000
13	1	1	4.028	3.774	-3.773	.074	.254	.6587	1.0000
13	1	2	51.526	51.342	51.342	.153	.164	.3669	1.0000
13	1	3	2.503	1.166	1.166	.008	1.337	1.9656	1.0000
13	1	4	28.222	28.117	28.117	.092	.105	.5179	1.0000
13	1	5	36.951	37.326	37.325	.170	-.375	-1.3052	1.0000
13	1	6	7.477	8.208	-8.208	.006	-.731	-2.1707	1.0000
13	1	7	5.244	4.177	4.177	.021	1.067	2.5166	1.0000
13	2	-6	5.006	3.884	-3.884	.020	1.122	2.7117	1.0000
13	2	-5	22.782	22.250	-22.249	-.072	.532	3.0368	1.0000
13	2	-4	4.946	4.275	4.275	-.019	.671	1.8582	1.0000
13	2	-3	10.947	11.295	-11.295	.018	-.347	-1.7080	1.0000
13	2	-2	7.025	6.937	-6.937	-.012	.088	.3449	1.0000
13	2	-1	25.334	25.361	-25.361	-.077	-.027	-.1530	1.0000
13	2	0	16.034	15.897	-15.897	.005	.137	.8301	1.0000
13	2	1	3.036	2.801	-2.801	.031	.235	.4406	1.0000
13	2	2	25.348	25.270	25.270	.010	.078	.4179	1.0000
13	2	3	39.555	39.191	-39.191	-.083	.364	1.1411	1.0000
13	2	4	3.919	2.592	2.592	.060	1.327	2.7827	1.0000
13	2	5	21.849	22.105	-22.105	-.045	-.125	-1.3275	1.0000
13	2	6	20.812	20.569	-20.569	-.074	.243	1.1545	1.0000
13	3	-7	26.841	26.261	26.260	.138	.580	2.9042	1.0000
13	3	-6	10.047	9.979	9.979	.048	.068	.2618	1.0000
13	3	-5	15.546	15.069	15.069	.048	.068	.2618	1.0000

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H	K	L	F(08S)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
13	3	-4	43.425	43.661	43.661	.155	-.236	-.5898	1.0000
13	3	-3	1.525 *	.964	-.963	.054	.561	.5144	1.0000
13	3	-2	17.850	17.731	-17.731	-.029	.119	.6923	1.0000
13	3	-1	12.469	13.167	-13.167	.025	-.658	-3.6192	1.0000
13	3	0	3.057 *	3.405	-3.405	.058	-.349	-.6673	1.0000
13	3	1	2.356 *	2.516	-2.516	.011	-.160	-.2254	1.0000
13	3	2	13.265	13.614	-13.614	-.003	-.349	-1.7862	1.0000
13	3	3	12.553	12.983	-12.983	.043	-.430	-2.0424	1.0000
13	3	4	9.619	8.528	8.528	.046	1.051	4.2054	1.0000
13	3	5	7.102	6.610	6.610	.037	.492	1.4917	1.0000
13	3	6	19.185	18.712	18.712	.103	.473	2.1099	1.0000
13	4	-7	19.466	19.127	-19.127	-.040	.338	1.5321	1.0000
13	4	-6	5.801	4.903	-4.902	-.029	.859	2.2896	1.0000
13	4	-5	4.343	3.563	3.562	.017	.781	1.7001	1.0000
13	4	-4	5.893	5.863	5.863	.020	.029	.0863	1.0000
13	4	-3	7.828	7.561	-7.561	-.033	.267	1.0011	1.0000
13	4	-2	27.749	27.809	27.809	.051	-.060	-.3284	1.0000
13	4	-1	11.557	11.720	11.720	.040	-.163	-.7736	1.0000
13	4	0	22.438	21.758	21.758	.031	.680	4.0402	1.0000
13	4	1	4.392	4.032	-4.032	-.022	.360	.8414	1.0000
13	4	2	6.240	5.344	-5.344	.001	.856	.27775	1.0000
13	4	3	10.113	10.044	-10.044	-.045	.069	.2733	1.0000
13	4	4	6.468	6.216	6.216	-.005	.251	.7168	1.0000
13	4	5	1.732 *	.399	.398	.011	1.333	1.6774	1.0000
13	5	-6	4.533	5.404	5.403	.041	-.871	-1.6567	1.0000
13	5	-5	10.513	10.063	10.063	.042	.449	1.7091	1.0000
13	5	-4	12.027	11.775	11.775	.061	.253	1.0594	1.0000
13	5	-3	24.476	24.544	24.544	.098	-.065	-.3517	1.0000
13	5	-2	9.671	9.074	9.074	.057	.598	2.4350	1.0000
13	5	-1	31.212	32.081	32.081	.102	-.869	-3.9341	1.0000
13	5	0	25.509	25.064	25.064	.091	.445	2.4892	1.0000
13	5	1	16.666	18.122	18.122	.067	.544	2.8221	1.0000
13	5	2	19.269	20.092	20.092	.075	-.823	-4.1930	1.0000
13	5	3	15.368	15.063	15.063	.081	.304	1.4005	1.0000
13	5	4	3.148 *	2.633	2.632	.052	.515	.7536	1.0000
13	6	-5	8.700	8.193	-8.193	-.030	.507	1.6262	1.0000
13	6	-4	5.721	5.918	5.918	.028	-.157	-.4843	1.0000
13	6	-3	1.686 *	1.512	-1.512	-.018	.174	.1440	1.0000
13	6	-2	5.002	5.109	5.109	-.006	-.107	-.2475	1.0000
13	6	-1	18.691	18.856	18.856	.060	-.165	-.7957	1.0000
13	6	0	11.557	11.392	11.392	.019	.165	.6832	1.0000
13	6	1	9.819	10.174	10.174	.021	-.356	-1.3178	1.0000
13	6	2	7.814	8.380	8.380	.034	-.566	-1.7950	1.0000
13	6	3	1.704 *	1.232	-1.232	.005	.471	.3874	1.0000
13	6	4	1.728 *	.778	-.775	.069	.950	.7698	1.0000
13	7	-1	6.552	6.407	6.407	.054	.144	.3815	1.0000
13	7	0	1.763 *	1.868	-1.868	.024	-.105	-.0834	1.0000
13	7	1	12.132	12.843	12.843	.067	-.711	-2.7027	1.0000
14	0	-8	1.770 *	.504	-.500	.062	1.267	1.0008	1.0000
14	0	-7	19.396	20.468	20.468	.083	-1.073	-5.1870	1.0000
14	0	-6	10.019	9.633	9.633	.013	.386	1.5721	1.0000
14	0	-5	2.734 *	2.335	-2.334	.062	.399	.6220	1.0000
14	0	-4	37.771	38.523	38.523	.169	-.752	-2.5822	1.0000

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
14	0	-3	14.036	14.879	14.879	.047	-.843	-.4.7175	1.0000
14	0	-2	45.662	46.648	46.648	.117	-.966	-2.4257	1.0000
14	0	-1	47.758	47.395	47.395	.174	.363	.9078	1.0000
14	0	0	1.434	.929	.927	.055	.565	.4933	1.0000
14	0	1	22.466	22.453	-22.453	-.022	.013	.0847	1.0000
14	0	2	35.440	34.848	-34.848	.002	.592	1.9402	1.0000
14	0	3	8.574	9.312	-9.311	.060	-.737	-2.9217	1.0000
14	0	4	26.767	26.536	-26.536	-.035	.232	1.2953	1.0000
14	0	5	1.655	.040	.030	.027	1.614	1.3664	1.0000
14	0	6	4.939	4.444	4.443	.082	.495	1.0311	1.0000
14	1	-7	7.950	7.930	7.930	-.002	.020	.0654	1.0000
14	1	-6	1.721	.827	.827	.012	.854	.7944	1.0000
14	1	-5	9.840	9.881	-9.881	.013	-.041	-.1687	1.0000
14	1	-4	4.841	4.788	4.788	-.011	.053	.1493	1.0000
14	1	-3	9.510	9.604	-9.604	-.039	-.054	-.4247	1.0000
14	1	-2	8.403	7.876	7.876	.040	.526	2.3096	1.0000
14	1	-1	13.548	13.655	-13.655	-.016	-.106	-.5933	1.0000
14	1	0	16.987	16.836	-16.836	-.061	.152	.8830	1.0000
14	1	1	13.180	13.236	-13.236	-.014	-.055	-.2978	1.0000
14	1	2	26.543	26.269	26.269	.067	.274	1.5621	1.0000
14	1	3	6.741	6.484	6.484	-.007	.257	.8633	1.0000
14	1	4	1.605	.893	-.893	-.025	.712	.6215	1.0000
14	1	5	8.150	8.018	-8.018	-.009	.132	.4418	1.0000
14	1	6	12.493	12.778	-12.778	-.036	-.285	-1.1143	1.0000
14	2	-7	1.704	1.449	1.449	.032	.412	.2091	1.0000
14	2	-6	4.119	4.531	4.531	.046	-.412	-.8229	1.0000
14	2	-5	9.258	8.421	-8.421	.017	.837	3.2701	1.0000
14	2	-4	1.546	1.249	-1.249	.032	.256	.2685	1.0000
14	2	-3	20.139	20.121	20.121	.081	.018	.1043	1.0000
14	2	-2	15.438	14.703	14.703	.057	.735	4.1949	1.0000
14	2	-1	1.665	.357	.355	.028	1.309	1.3981	1.0000
14	2	0	14.786	15.092	15.092	.076	-.306	-1.7140	1.0000
14	2	1	32.586	32.127	32.127	.100	.459	1.9262	1.0000
14	2	2	21.327	21.015	21.015	.069	.312	1.8181	1.0000
14	2	3	5.970	7.194	-7.194	.014	-1.225	-3.6394	1.0000
14	2	4	6.345	6.431	-6.431	.016	-.087	-.2575	1.0000
14	2	5	20.135	19.466	19.466	.069	.669	3.2927	1.0000
14	2	6	4.511	4.102	4.102	.034	.410	.7739	1.0000
14	3	-7	7.400	7.254	-7.254	-.043	.146	.4070	1.0000
14	3	-6	3.933	2.935	2.935	.004	.998	1.9367	1.0000
14	3	-5	22.480	21.134	-21.134	-.029	1.347	7.2476	1.0000
14	3	-4	41.630	42.120	42.120	.076	-.489	-1.4693	1.0000
14	3	-3	12.879	13.029	13.029	.007	-.150	-.7248	1.0000
14	3	-2	18.284	18.614	18.614	.037	-.329	-1.8788	1.0000
14	3	-1	26.722	26.166	26.166	.068	.556	3.3751	1.0000
14	3	0	24.187	24.945	24.945	.029	-.758	-4.5986	1.0000
14	3	1	10.513	19.677	-19.677	-.039	-.471	-2.6859	1.0000
14	3	2	10.206	10.357	10.357	.030	.156	.6830	1.0000
14	3	3	29.779	29.172	-29.172	-.075	.607	3.3946	1.0000
14	3	4	2.973	2.594	2.594	-.020	.379	.5543	1.0000
14	3	5	8.511	7.698	-7.698	-.003	.814	2.6676	1.0000
14	4	-6	8.574	8.004	8.004	.078	.570	1.9140	1.0000
14	4	-5	11.656	12.044	12.044	.054	-.369	-1.6075	1.0000

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H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
14	4	-4	6.517	5.422	5.422	.021	1.094	3.2514	1.0000
14	4	-3	31.601	31.302	31.302	.124	.299	1.3778	1.0000
14	4	-2	31.139	30.944	30.944	.118	.195	.9121	1.0000
14	4	-1	1.525	.185	-.184	.019	1.340	1.2291	1.0000
14	4	0	5.461	6.395	6.395	.051	-.934	-2.5867	1.0000
14	4	1	36.244	39.044	39.044	.140	-.600	-2.5932	1.0000
14	4	2	21.909	21.558	21.558	.069	.351	1.8881	1.0000
14	4	3	12.255	11.084	-11.084	.011	1.171	5.0621	1.0000
14	4	4	15.546	19.873	19.872	.107	-.326	-1.5520	1.0000
14	4	5	16.444	15.674	15.674	.089	.770	3.3796	1.0000
14	5	-5	19.722	20.633	-20.633	.061	-.911	-4.3323	1.0000
14	5	-4	19.171	18.972	18.971	.059	.200	.9651	1.0000
14	5	-3	1.623	.063	-.061	.014	1.560	1.3448	1.0000
14	5	-2	19.858	20.414	-20.413	.072	-.555	-2.8287	1.0000
14	5	-1	7.512	6.743	-6.743	.002	.769	2.5498	1.0000
14	5	0	17.194	18.252	18.252	.053	-1.058	-5.3890	1.0000
14	5	1	13.440	14.076	-14.076	.042	-.636	-2.8768	1.0000
14	5	2	3.036	3.073	-3.073	.018	-.037	-.0549	1.0000
14	5	3	11.053	10.370	-10.370	.006	.683	2.7056	1.0000
14	5	4	14.295	13.829	13.829	.034	.466	1.8738	1.0000
14	6	-4	4.119	4.322	4.321	.048	-.203	-.3614	1.0000
14	6	-3	2.524	3.665	-3.665	.013	-1.141	-1.3391	1.0000
14	6	-2	1.949	2.914	2.914	.058	-.965	-.8940	1.0000
14	6	-1	6.885	7.059	7.059	.078	-.175	-.5132	1.0000
14	6	0	3.530	1.478	1.477	.038	2.052	3.5482	1.0000
14	6	1	14.246	13.429	13.429	.071	.817	3.4784	1.0000
14	6	2	8.297	8.376	8.376	.071	-.079	-.2475	1.0000
14	7	-1	2.910	1.982	-1.982	.009	.928	1.2085	1.0000
14	7	-7	6.778	7.114	7.114	.062	1.663	5.6487	1.0000
15	1	-6	11.677	12.593	12.593	.078	-.917	-3.7351	1.0000
15	1	-5	27.500	27.793	27.793	.072	-.253	-1.6701	1.0000
15	1	-4	1.683	2.988	-2.988	.027	-1.305	-1.2709	1.0000
15	1	-3	45.052	45.546	45.546	.158	-.494	-1.3052	1.0000
15	1	-2	25.982	27.344	27.344	.103	-1.362	-7.4696	1.0000
15	1	-1	3.386	2.183	2.183	.009	1.203	2.5059	1.0000
15	1	0	42.591	41.843	41.843	.128	.747	2.0307	1.0000
15	1	1	40.235	40.683	40.683	.134	-.448	-1.4520	1.0000
15	1	2	32.643	32.596	-32.596	.043	.046	.1932	1.0000
15	1	3	12.725	12.890	12.890	.052	-.165	-.7865	1.0000
15	1	4	4.273	4.628	4.627	.070	-.354	-.7490	1.0000
15	1	5	8.178	8.220	6.220	.039	-.042	-.1350	1.0000
15	2	-7	1.851	1.419	1.419	.003	.431	.3673	1.0000
15	2	-6	1.655	1.172	1.172	.034	.482	.4108	1.0000
15	2	-5	28.149	29.432	-29.432	.085	-1.263	-7.1779	1.0000
15	2	-4	3.765	4.006	4.006	.027	-.242	-.4886	1.0000
15	2	-3	24.163	24.005	-24.005	.059	.157	.9360	1.0000
15	2	-2	2.731	2.755	2.755	.045	-.024	-.0377	1.0000
15	2	-1	23.216	23.470	23.470	.042	-.254	-1.5409	1.0000
15	2	0	25.758	25.502	25.502	.066	.256	1.5851	1.0000
15	2	1	14.470	14.571	-14.571	.057	-.101	-.5222	1.0000
15	2	2	32.958	34.398	34.398	.054	-1.440	-5.7849	1.0000
15	2	3	29.586	29.590	29.590	.090	-.005	-.0221	1.0000
15	2	4	15.641	15.846	15.846	.022	-.205	-.9585	1.0000

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STRUCTURE FACTORS

PAGE 32

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
15	2	5	6.660	6.745	6.745	-.021	-.064	-.2333	1.0000
15	3	-6	12.465	13.177	-13.177	.004	-.712	-2.9060	1.0000
15	3	-5	9.391	8.486	8.486	.070	.905	3.4871	1.0000
15	3	-4	3.698	3.165	3.164	.045	.533	1.0423	1.0000
15	3	-3	20.952	21.498	-21.498	-.029	-.546	-2.9935	1.0000
15	3	-2	1.549	1.523	1.521	.056	.027	.0242	1.0000
15	3	-1	18.049	18.573	-18.573	.015	-.524	-2.8745	1.0000
15	3	0	35.247	36.605	-36.605	-.052	-1.358	-5.0955	1.0000
15	3	1	21.779	22.514	22.514	.087	-.735	-4.1098	1.0000
15	3	2	18.765	18.842	18.841	.118	-.077	-.4085	1.0000
15	3	3	15.841	15.601	15.601	.081	.240	1.1615	1.0000
15	3	4	19.764	19.128	19.128	.071	.636	3.1275	1.0000
15	3	5	6.103	7.259	7.259	.077	-1.156	-2.7719	1.0000
15	4	-6	7.722	7.311	7.311	.021	.412	1.2240	1.0000
15	4	-5	1.753	1.272	-1.272	.005	.480	.4139	1.0000
15	4	-4	17.355	16.896	-16.896	-.032	.459	2.2187	1.0000
15	4	-3	25.474	24.975	-24.975	-.038	.459	2.7363	1.0000
15	4	-2	1.868	2.550	-2.550	-.005	-.681	-2.7147	1.0000
15	4	-1	29.687	29.329	-29.329	-.069	.358	1.8592	1.0000
15	4	0	17.962	17.315	17.315	.052	.647	3.3556	1.0000
15	4	1	9.486	10.734	10.734	.059	-1.248	-4.8118	1.0000
15	4	2	4.659	5.281	5.281	.020	-.623	-1.3666	1.0000
15	4	3	4.371	2.892	2.892	.005	1.480	3.1265	1.0000
15	4	4	2.955	4.980	4.980	.021	-2.025	-2.6260	1.0000
15	5	-5	1.753	2.015	2.015	.059	-.263	-.2099	1.0000
15	5	-4	10.681	9.976	9.976	.063	.705	2.6823	1.0000
15	5	-3	13.023	12.713	12.713	.055	.310	1.3169	1.0000
15	5	-2	18.425	18.784	18.784	.078	-.360	-1.7702	1.0000
15	5	-1	18.740	18.013	18.013	.095	.727	3.6380	1.0000
15	5	0	15.725	15.577	15.577	.075	.148	.7169	1.0000
15	5	1	5.556	6.364	-6.364	.009	-.808	-1.9866	1.0000
15	5	2	10.814	10.864	10.864	.055	-.050	-.1959	1.0000
15	5	3	4.680	3.972	-3.972	.012	.708	1.4533	1.0000
15	6	-3	3.765	3.099	-3.099	-.011	.666	1.1173	1.0000
15	6	-2	7.351	7.088	-7.088	-.023	.263	.7575	1.0000
15	6	-1	9.521	10.662	-10.662	-.039	-1.142	-4.0204	1.0000
15	6	0	9.847	9.696	-9.696	-.047	.150	.5504	1.0000
15	6	1	6.264	6.104	-6.104	-.011	.161	.4163	1.0000
15	6	2	1.847	.248	-.248	-.008	1.600	1.3038	1.0000
16	0	-7	7.382	7.324	7.324	.021	.059	.1672	1.0000
16	0	-6	7.256	5.907	5.907	.039	1.349	4.1375	1.0000
16	0	-5	19.269	19.623	19.623	.088	-.354	-1.8365	1.0000
16	0	-4	18.049	17.877	-17.877	-.031	.173	.9135	1.0000
16	0	-3	11.757	10.292	10.292	.015	1.465	6.9666	1.0000
16	0	-2	22.284	21.644	21.644	.122	.640	3.8044	1.0000
16	0	-1	36.085	36.735	36.735	.110	-.650	-2.2355	1.0000
16	0	0	12.595	12.813	12.813	.023	.850	1.1697	1.0000
16	0	1	92.137	91.247	91.247	.235	.822	4.3448	1.0000
16	0	2	16.419	15.597	15.597	.094	.239	.5690	1.0000
16	0	3	4.462	4.223	-4.223	-.014	.439	2.0184	1.0000
16	0	4	15.631	15.192	-15.192	.005	.159	.2920	1.0000
16	0	5	4.066	3.908	3.907	.070	.159	.2920	1.0000
16	1	-7	1.732	1.666	-1.666	-.008	.159	.2920	1.0000

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H	K	L	F (OBS)	F (CALC)	A (CALC)	B (CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
16	1	-6	6.553	8.935	-6.935	-.604	-.382	-1.2813	1.0000
16	1	-5	21.026	20.306	-20.306	-.055	.720	3.6022	1.0000
16	1	-4	26.534	29.829	-29.829	-.081	-1.295	-7.5402	1.0000
16	1	-3	9.955	10.173	-10.173	.011	-.217	-.9391	1.0000
16	1	-2	4.203	3.500	-3.500	.019	.703	1.6307	1.0000
16	1	-1	20.324	20.732	-20.732	-.068	-.407	-2.3708	1.0000
16	1	0	9.293	10.051	-10.051	.036	-.758	-2.8837	1.0000
16	1	1	16.602	16.380	-16.380	.001	.222	1.1736	1.0000
16	1	2	43.054	43.862	-43.862	-.111	-.809	-2.2399	1.0000
16	1	3	9.489	9.482	-9.482	-.023	.007	.0279	1.0000
16	1	4	1.662	1.091	-1.090	.038	.571	.4803	1.0000
16	1	5	1.725	1.181	-1.181	-.010	.544	.4421	1.0000
16	1	6	4.568	2.696	-2.696	.046	1.872	3.6569	1.0000
16	2	-7	11.663	10.821	-10.821	.013	.842	3.3823	1.0000
16	2	-6	7.046	6.646	-6.646	.017	.400	1.2275	1.0000
16	2	-5	23.125	23.596	-23.596	-.001	-.470	-2.5802	1.0000
16	2	-4	13.794	13.616	-13.616	.071	.178	.8744	1.0000
16	2	-3	4.231	5.182	-5.181	.052	-.951	-2.2226	1.0000
16	2	-2	5.044	5.206	-5.206	.033	-.161	-.4471	1.0000
16	2	-1	6.548	6.062	-6.061	.048	.486	1.5251	1.0000
16	2	0	27.861	27.264	-27.264	.087	.597	3.4773	1.0000
16	2	1	26.310	20.239	-20.238	.083	.072	.3864	1.0000
16	2	2	28.085	28.309	-28.309	.121	-.224	-1.2282	1.0000
16	2	3	7.642	7.133	-7.133	.064	.508	1.5763	1.0000
16	2	4	20.219	19.985	-19.985	.075	.234	1.0766	1.0000
16	2	5	6.748	8.307	-8.307	.032	-1.559	-4.1947	1.0000
16	3	-6	6.993	6.478	-6.478	.011	.516	1.5167	1.0000
16	3	-5	7.095	6.334	-6.334	.007	.761	2.4678	1.0000
16	3	-4	3.782	2.463	-2.463	.013	1.319	2.6318	1.0000
16	3	-3	12.882	12.803	-12.803	-.018	.079	.3766	1.0000
16	3	-2	26.859	27.284	-27.283	-.091	-.425	-2.4740	1.0000
16	3	-1	9.878	9.302	-9.302	.008	.576	2.3833	1.0000
16	3	0	5.163	4.853	-4.853	.016	.311	.7986	1.0000
16	3	1	12.651	14.166	-14.166	-.035	-1.515	-6.6491	1.0000
16	3	2	6.138	6.715	-6.715	.008	-.577	-1.5677	1.0000
16	3	3	14.211	12.881	-12.881	.042	1.330	5.6616	1.0000
16	4	4	3.183	2.146	-2.146	.028	1.037	1.5167	1.0000
16	4	-5	1.830	.933	-.932	.056	.897	.8277	1.0000
16	4	-4	9.805	10.419	-10.419	.079	-.614	-2.3054	1.0000
16	4	-3	16.959	16.645	-16.645	.049	.314	1.5739	1.0000
16	4	-2	6.057	6.538	-6.538	.013	-.481	-1.3576	1.0000
16	4	-1	17.117	16.251	-16.251	.117	.866	4.2570	1.0000
16	4	0	4.150	3.160	-3.159	.042	.991	1.9627	1.0000
16	4	1	2.783	3.174	-3.174	.010	-.391	-.5186	1.0000
16	4	2	3.414	4.293	-4.293	.049	-.879	-1.3855	1.0000
16	4	3	1.767	1.854	-1.853	.038	-.087	-.0688	1.0000
16	4	4	13.366	13.074	-13.074	.044	.293	1.1921	1.0000
16	5	-4	8.147	8.785	-8.785	-.010	-.639	-2.0243	1.0000
16	5	-3	7.032	6.867	-6.867	.007	.165	.4965	1.0000
16	5	-2	1.679	.324	.323	.022	1.355	1.1300	1.0000
16	5	-1	2.156	2.782	-2.782	-.008	-.626	-.6545	1.0000
16	5	0	1.704	1.123	-1.122	-.040	.581	.4774	1.0000
16	5	1	13.215	12.947	-12.947	.015	.269	1.0948	1.0000

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
16	5	3	3.881	2.795	-2.795	-.003	1.005	1.8103	1.0000
16	6	-2	24.559	23.629	23.629	.097	.930	4.4956	1.0000
16	6	-1	2.910	2.728	-2.728	.014	.181	.2394	1.0000
16	6	0	13.952	13.519	13.519	.048	.432	1.7616	1.0000
16	6	1	3.635	1.737	-1.736	.044	1.858	3.0084	1.0000
17	1	-6	11.617	10.908	10.907	.069	.709	2.7720	1.0000
17	1	-5	8.648	7.653	7.653	.061	.954	3.5460	1.0000
17	1	-4	15.052	14.703	14.702	.096	.350	1.6905	1.0000
17	1	-3	21.295	22.254	22.254	.077	.958	-5.2577	1.0000
17	1	-2	27.872	28.799	-28.799	-.031	-.928	-5.5139	1.0000
17	1	-1	16.625	10.775	-10.775	.044	-.150	-.6588	1.0000
17	1	0	14.390	14.580	-14.580	.012	-.150	-.9367	1.0000
17	1	1	6.446	6.995	-6.995	.003	-.548	-1.7376	1.0000
17	1	2	5.465	4.636	-4.636	.037	.829	2.2306	1.0000
17	1	3	13.573	12.252	12.252	.078	1.321	5.7980	1.0000
17	1	4	3.309	3.153	-3.153	.014	.156	.2380	1.0000
17	1	5	16.567	16.436	16.436	.090	.131	.5563	1.0000
17	2	-6	8.518	7.358	7.358	.023	1.160	3.6782	1.0000
17	2	-5	11.179	11.678	11.678	.052	-.459	-2.0050	1.0000
17	2	-4	3.299	.157	-.157	-.007	3.141	5.4976	1.0000
17	2	-3	12.686	13.746	-13.746	-.056	-1.060	-4.8755	1.0000
17	2	-2	6.839	7.703	-7.703	.026	-.864	-2.8017	1.0000
17	2	-1	16.511	16.742	15.742	.048	-.232	-1.2013	1.0000
17	2	0	16.030	16.334	-16.334	-.071	-.304	-1.5474	1.0000
17	2	1	2.534	1.636	1.636	.003	.859	1.1978	1.0000
17	2	2	4.785	5.306	-5.306	.017	-.522	-1.1998	1.0000
17	2	3	15.207	14.703	-14.703	-.062	.503	2.2790	1.0000
17	2	4	19.241	19.370	-19.370	-.052	-.129	-.6031	1.0000
17	3	-6	9.135	9.212	9.212	.076	-.077	-.2499	1.0000
17	3	-5	7.814	6.917	-6.917	-.006	.857	2.7221	1.0000
17	3	-4	7.572	7.350	7.350	.010	.222	.7035	1.0000
17	3	-3	19.427	18.742	18.742	.095	.685	3.4908	1.0000
17	3	-2	24.689	24.618	24.618	.107	.070	.3865	1.0000
17	3	-1	26.021	26.893	26.893	.054	-.872	-4.7864	1.0000
17	3	0	11.564	12.252	12.251	.052	-.687	-2.9256	1.0000
17	3	1	24.075	24.311	24.311	.118	-.236	-1.2688	1.0000
17	3	2	22.312	21.993	21.993	.075	.319	1.6275	1.0000
17	3	3	8.052	7.665	7.665	.035	.387	1.2399	1.0000
17	4	4	24.783	25.046	25.046	.120	-.262	-1.2680	1.0000
17	4	-5	32.502	32.576	32.576	.054	-.074	-.3710	1.0000
17	4	-4	16.020	14.995	14.995	.051	1.024	4.6382	1.0000
17	4	-3	9.275	8.851	8.851	.029	.424	1.5305	1.0000
17	4	-2	3.137	3.449	3.449	-.001	.424	1.5305	1.0000
17	4	-1	22.028	22.460	-22.460	-.074	-.311	-.4777	1.0000
17	4	0	22.841	22.829	-22.829	-.041	.012	-2.2004	1.0000
17	4	1	8.157	6.989	6.989	.006	1.168	3.8739	1.0000
17	4	2	20.058	19.965	-19.965	-.058	.093	.4405	1.0000
17	4	3	13.520	13.491	13.491	.047	.029	.1215	1.0000
17	5	-4	4.925	5.231	5.231	.059	-.306	-.6371	1.0000
17	5	-3	6.120	5.415	5.415	.066	.705	1.8126	1.0000
17	5	-2	4.024	4.967	4.966	.066	-.942	-1.7458	1.0000
17	5	-1	7.319	8.060	-8.060	.009	-.741	-2.1782	1.0000
17	5	0	15.224	15.337	15.337	.071	-.113	-.5042	1.0000

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H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
17	5	1	3.228 *	3.921	-3.921	.037	-.692	-.9973	1.0000 **
17	5	2	4.098	4.413	4.413	.068	-.316	-.5360	1.0000
18	0	-6	25.656	26.919	26.919	.113	-1.263	-6.2104	1.0000
18	0	-5	5.735	6.236	6.236	.045	-.501	-1.2991	1.0000
18	0	-4	21.912	20.162	20.161	.097	1.751	9.2454	1.0000
18	0	-3	48.259	48.662	48.661	.181	-.402	-.9648	1.0000
18	0	-2	2.745	2.948	2.948	.067	-.203	-.2941	1.0000
18	0	-1	15.371	15.198	-15.198	.016	-.174	-.8693	1.0000
18	0	0	19.816	20.622	-20.622	.011	-.806	-4.3369	1.0000
18	0	1	6.748	6.281	-6.281	.042	.467	1.4799	1.0000
18	0	2	4.957	4.360	4.360	.008	.597	1.4309	1.0000
18	0	3	13.359	13.180	-13.180	.007	.180	.7882	1.0000
18	0	4	3.057 *	.965	-.964	.048	2.092	2.9398	1.0000
18	1	-6	9.728	8.258	-8.258	.052	1.469	5.1115	1.0000
18	1	-5	1.970 *	1.582	1.582	.012	.368	.3739	1.0000
18	1	-4	17.348	17.119	17.119	.049	.230	1.1288	1.0000
18	1	-3	3.558	3.817	3.817	.017	-.259	-.4612	1.0000
18	1	-2	11.477	11.344	-11.344	.050	.133	.5925	1.0000
18	1	-1	9.384	9.915	9.915	.035	-.531	-2.0754	1.0000
18	1	0	22.712	23.203	23.203	.066	-.492	-2.6970	1.0000
18	1	1	14.351	13.803	13.803	.008	.548	2.6062	1.0000
18	1	2	6.606	6.750	-6.750	.028	-.142	-.4049	1.0000
18	1	3	14.039	13.994	13.993	.055	.046	.1975	1.0000
18	1	4	10.183	10.007	-10.007	.022	.176	.6197	1.0000
18	1	5	16.318	16.752	16.752	.073	-.435	-1.8789	1.0000
18	2	-6	10.586	11.365	-11.365	.017	-.779	-2.9615	1.0000
18	2	-4	15.508	15.128	-15.128	.005	.360	1.7764	1.0000
18	2	-3	4.659	5.033	5.032	.048	-.374	-.8331	1.0000
18	2	-2	7.193	6.164	6.164	.048	1.029	3.2630	1.0000
18	2	-1	19.052	19.432	19.432	.097	-.360	-1.9719	1.0000
18	2	0	13.471	13.541	13.541	.074	-.070	-.3162	1.0000
18	2	1	8.048	8.809	8.808	.071	-.760	-2.5516	1.0000
18	2	2	35.917	35.886	35.886	.128	.030	.1062	1.0000
18	2	3	7.873	7.760	7.760	.061	.113	.3508	1.0000
18	2	4	2.261 *	2.819	-2.819	.025	-.558	-.5669	1.0000
18	3	-5	18.116	18.685	-18.685	.057	-.570	-2.5790	1.0000
18	3	-4	17.576	17.012	17.012	.055	.564	2.6378	1.0000
18	3	-3	25.558	26.698	26.698	.055	-1.140	-5.9144	1.0000
18	3	-2	1.648 *	.604	-.604	.005	1.044	.8861	1.0000
18	3	-1	22.908	23.696	23.696	.074	-.788	-4.0887	1.0000
18	3	0	6.618	6.892	6.892	.034	-.274	-.7899	1.0000
18	3	1	8.711	8.242	8.242	.002	.469	1.6318	1.0000
18	3	2	9.300	8.526	-8.526	.040	.774	2.7246	1.0000
18	3	3	1.749 *	.427	.427	.005	.323	1.0599	1.0000
18	4	-4	10.474	10.595	10.595	.058	-.121	-.4412	1.0000
18	4	-3	3.102 *	3.250	-3.250	.008	-.147	-.2124	1.0000
18	4	-2	3.705	3.133	3.133	.048	.572	1.0330	1.0000
18	4	-1	4.596	4.031	4.030	.053	.565	1.2121	1.0000
18	4	0	1.690 *	1.637	-1.637	.006	.052	.0434	1.0000
18	4	1	3.628 *	3.905	3.905	.023	-.277	-.4521	1.0000
18	4	2	23.437	23.190	23.190	.106	.247	1.1936	1.0000
18	5	-3	4.291	4.174	4.174	.014	.117	.2120	1.0000
18	5	-2	7.197	7.616	-7.616	.002	-.420	-1.1736	1.0000

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
18	5	-1	1.739 *	.481	.481	-.003	1.258	1.0138	1.0000
18	5	0	13.790	13.618	-13.618	-.040	.173	.7034	1.0000
18	5	1	5.044	5.443	5.443	.017	-.399	-.8241	1.0000
19	1	-5	9.969	10.151	10.151	.078	-.161	-.6552	1.0000
19	1	-4	3.358 *	4.575	4.575	.028	-1.217	-1.9071	1.0000
19	1	-3	26.676	25.700	25.700	.100	.976	5.1567	1.0000
19	1	-2	26.922	27.950	27.950	.116	-1.029	-5.5364	1.0000
19	1	-1	5.868	4.903	4.903	.052	.965	2.7247	1.0000
19	1	0	4.866	6.139	6.139	.013	-1.273	-2.8600	1.0000
19	1	1	3.232 *	1.181	1.179	.055	2.051	3.4421	1.0000
19	1	2	2.345 *	1.296	1.294	.065	1.049	1.2469	1.0000
19	1	3	9.920	9.757	-9.757	.003	.163	.5886	1.0000
19	2	-5	9.514	9.027	-9.027	-.025	.487	1.6733	1.0000
19	2	-4	10.155	10.413	-10.413	-.044	-.257	-.9540	1.0000
19	2	-3	21.797	21.146	21.146	.071	.650	3.2548	1.0000
19	2	-2	17.503	17.144	-17.144	-.043	.359	1.7342	1.0000
19	2	-1	6.748	6.237	-6.237	-.043	.511	1.5661	1.0000
19	2	0	1.637 *	1.830	-1.830	-.003	-.153	-.1646	1.0000
19	2	1	2.247 *	.349	-.347	.037	1.858	2.1318	1.0000
19	2	2	1.742 *	1.889	1.869	-.020	-.147	-.1182	1.0000
19	2	3	3.225 *	2.860	2.860	-.035	.365	.5206	1.0000
19	3	-4	22.862	22.311	22.311	.062	.552	2.6672	1.0000
19	3	-3	4.427	4.146	4.146	.065	.281	.5732	1.0000
19	3	-2	2.468 *	2.300	2.299	.035	.168	.1974	1.0000
19	3	-1	21.134	21.226	21.226	.095	-.092	-.4507	1.0000
19	3	0	16.388	16.865	16.865	.098	-.477	-2.1618	1.0000
19	3	1	5.560	4.735	4.735	.045	.825	2.0283	1.0000
19	3	2	6.476	8.774	6.774	.032	-.258	-.9551	1.0000
19	4	-3	4.210	4.102	-4.102	-.018	.108	.2057	1.0000
19	4	-2	1.742 *	.767	.766	-.015	.976	.7840	1.0000
19	4	-1	10.236	10.382	10.382	.027	-.146	-.5280	1.0000
19	4	0	8.311	8.428	-8.428	-.026	-.117	-.3695	1.0000
19	4	1	1.746 *	1.277	-1.277	-.003	.469	.3757	1.0000
20	0	-5	1.735 *	.604	-.604	.022	1.131	.9112	1.0000
20	0	-4	13.226	13.064	-13.064	.039	.162	.6790	1.0000
20	0	-3	30.844	30.002	-30.002	-.045	.842	4.4502	1.0000
20	0	-2	12.290	11.355	11.355	.030	.935	3.9231	1.0000
20	0	-1	5.132	5.078	-5.077	.044	.054	.1316	1.0000
20	0	0	13.538	12.728	-12.728	.005	.809	3.5526	1.0000
20	0	1	16.270	16.708	16.708	.033	1.562	7.3048	1.0000
20	0	2	17.730	18.742	18.741	.087	1.562	-4.6523	1.0000
20	0	3	10.208	9.328	9.328	.090	1.011	-4.6523	1.0000
20	1	-5	1.770 *	1.327	1.327	.035	.442	3.6983	1.0000
20	1	-4	2.720 *	3.734	3.734	.014	1.014	-1.3091	1.0000
20	1	-3	13.790	12.772	12.772	.010	1.018	4.3398	1.0000
20	1	-2	14.099	14.840	14.840	.048	-.741	-3.2023	1.0000
20	1	-1	6.455	8.163	8.163	.037	.292	1.0151	1.0000
20	1	0	3.838	3.464	3.464	-.026	.374	.6838	1.0000
20	1	1	9.447	9.541	9.541	.029	-.694	-.3260	1.0000
20	1	2	5.367	5.048	5.048	.011	.319	.7454	1.0000
20	2	-4	4.375	4.431	4.431	.040	-.057	-.1055	1.0000
20	2	-3	10.373	10.083	10.083	.069	.289	1.0722	1.0000
20	2	-2	26.103	27.842	27.842	.111	.289	1.0722	1.0000

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)	DELTA F	DELTA/SIGMA	EXT. FACTOR
20	2	-1	3.814	3.982	3.982	.037	-.168	-.2967	1.0000
20	2	0	11.897	11.885	11.885	.072	.012	.0495	1.0000
20	2	1	19.532	19.234	19.233	.103	.259	1.4195	1.0000
20	2	2	4.922	5.800	5.800	.044	-.876	-.1.8156	1.0000
20	3	-4	14.653	15.105	-15.105	-.039	-.452	-1.8430	1.0000
20	3	-3	3.586	5.038	-5.038	-.022	-1.452	-2.2266	1.0000
20	3	-2	14.951	14.574	-14.574	-.047	.377	1.6283	1.0000
20	3	-1	1.718	.344	-.343	.021	1.374	1.1198	1.0000
20	3	0	1.714	.146	.146	-.013	1.568	1.2818	1.0000
20	3	1	6.078	4.847	-4.847	-.006	1.232	3.1099	1.0000
20	4	-2	14.849	15.299	15.299	.098	-.450	-1.8601	1.0000
20	4	-1	1.756	1.106	1.106	.024	.650	.5182	1.0000
21	1	-4	1.753	1.861	-1.861	.015	-.108	-.0862	1.0000
21	1	-3	8.816	8.214	8.214	.072	.602	1.9732	1.0000
21	1	-2	16.262	16.561	16.561	.097	-.300	-1.3155	1.0000
21	1	-1	7.495	7.767	-7.767	-.001	-.273	-.7942	1.0000
21	1	0	12.844	12.199	12.199	.078	.645	2.5910	1.0000
21	1	1	22.578	23.238	23.238	.099	-.659	-3.1356	1.0000
21	2	-3	3.271	5.941	5.941	.036	-2.671	-3.6983	1.0000
21	2	-2	4.992	5.201	-5.200	-.003	-.209	-.4512	1.0000
21	2	-1	7.148	6.890	-6.890	-.003	.258	.7351	1.0000
21	2	0	6.503	6.801	6.801	.031	-.259	-.7889	1.0000
21	2	1	2.226	3.674	-3.674	-.016	-1.448	-1.4150	1.0000
21	3	-2	11.887	11.070	11.069	.084	.817	3.1060	1.0000
21	3	-1	22.487	22.528	22.528	.112	-.041	-1.923	1.0000
21	3	0	9.693	9.045	9.045	.037	.648	2.1738	1.0000
22	0	-3	13.969	15.082	-15.082	-.022	-1.113	-4.4710	1.0000
22	0	-2	1.756	.716	-.713	.061	1.040	.8290	1.0000
22	0	-1	3.691	2.980	-2.980	.041	.711	1.1659	1.0000
22	0	0	30.998	30.909	-30.909	-.040	.069	.4398	1.0000
22	1	-2	2.629	3.178	3.177	.014	-.548	-.6412	1.0000
22	1	-1	17.008	16.820	-16.820	-.066	.169	.8152	1.0000
22	1	0	7.319	7.750	-7.750	-.035	-.430	-1.1584	1.0000

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ARISTA, FINAL

ALL REFLECTIONS

RESULTS OF STRUCTURE FACTOR CALCULATIONS

NUMERATOR DENOMINATOR NUMBER

R

WEIGHTED R

13569.23

13415800.32

1941

.032

UNWEIGHTED R

1162.18

32027.03

1941

.036

RANGES OF F(OBS)

6818.98	2872477.02	1302	.049
4775.51	7033976.10	434	.026
885.24	1759922.92	131	.022
509.47	642996.14	42	.028
249.88	561878.71	21	.021
64.66	162120.94	5	.020
228.19	169576.98	3	.037
37.31	212851.51	3	.013

RANGES OF (SIN(THETA)/LAMBDA)**2

2225.24	1624620.68	92	.037
2504.88	1976398.88	162	.036
1085.63	1839121.69	195	.024
1097.61	2085369.19	245	.023
1532.68	2098429.40	269	.027
1871.41	1901020.12	295	.031
1667.28	1087805.21	336	.039
1584.50	803034.93	347	.044

UNREJECTED REFLECTIONS

WEIGHTED R

13569.23

13415800.32

1941

.032

UNWEIGHTED R

1162.18

32027.03

1941

.036

RANGES OF F(OBS)

6818.98	2872477.02	1302	.049
4775.51	7033976.10	434	.026
885.24	1759922.92	131	.022
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249.88	561878.71	21	.021
64.66	162120.94	5	.020
228.19	169576.98	3	.037
37.31	212851.51	3	.013

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1085.63	1839121.69	195	.024
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1532.68	2098429.40	269	.027
1871.41	1901020.12	295	.031
1667.28	1087805.21	336	.039
1584.50	803034.93	347	.044

SUM FCAL
STANDARD DEV OF UNIT WEIGHT OBS

31841.27
2.76