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Crystal chemistry of lead aluminosilicate hollandite: A new high-pressure
synthetic phase with octahedral Si

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For deposit: Table 4

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Table 4. Structure Factors of Lead Hollandite

h	k	l	f(obs)	f(calc)	sigfo	h	k	l	f(obs)	f(calc)	sigfo
-2	-6	0	43.714	40.575	2.190	6	-10	0	43.711	31.042	3.728
0	-6	0	138.235	139.322	1.223	8	-10	0	28.519	13.240	6.183
2	-6	0	22.107	21.915	4.826	-9	-9	0	36.147	27.679	4.639
-3	-5	0	56.273	54.428	1.699	-7	-9	0	42.604	44.810	3.079
-1	-5	0	26.394	21.942	3.353	-5	-9	0	9.307	2.837	14.543
1	-5	0	100.558	99.736	1.392	5	-9	0	24.582	25.801	6.379
3	-5	0	47.150	42.731	2.249	7	-9	0	15.278	19.500	10.806
-4	-4	0	67.082	68.167	1.226	9	-9	0	36.124	27.679	4.862
-2	-4	0	114.628	112.048	0.988	-10	-8	0	18.635	13.240	9.167
0	-4	0	33.529	25.508	2.484	-8	-8	0	5.460	0.909	27.293
2	-4	0	66.460	66.943	1.520	8	-8	0	5.689	0.909	28.447
4	-4	0	67.240	68.167	1.752	10	-8	0	20.589	7.130	8.325
-5	-3	0	42.869	42.731	1.797	-11	-7	0	23.722	25.338	7.209
-3	-3	0	76.758	72.035	0.988	-9	-7	0	29.524	19.500	5.103
-1	-3	0	148.247	147.394	0.794	9	-7	0	42.411	44.810	4.070
1	-3	0	119.011	122.561	1.053	11	-7	0	16.010	8.644	10.875
3	-3	0	72.893	72.035	1.648	-10	-6	0	37.109	31.042	3.448
5	-3	0	55.698	54.428	2.252	10	-6	0	5.739	9.514	28.691
-6	-2	0	23.565	21.915	4.035	-11	-5	0	5.650	13.065	28.248
-4	-2	0	66.481	66.943	1.068	-9	-5	0	32.955	25.801	4.130
-2	-2	0	111.638	106.295	0.735	9	-5	0	25.871	2.837	5.528
0	-2	0	59.287	55.145	1.265	11	-5	0	5.766	8.779	28.834
2	-2	0	106.006	106.295	1.026	-12	-4	0	14.032	8.759	11.910
4	-2	0	111.662	112.048	1.074	-10	-4	0	13.615	11.794	10.363
6	-2	0	40.932	40.575	2.767	10	-4	0	39.242	37.346	4.035
-5	-1	0	101.296	99.736	1.024	12	-4	0	5.543	5.200	31.571
-3	-1	0	123.789	122.561	0.753	-11	-3	0	5.588	4.490	27.938
-1	-1	0	75.734	69.510	0.536	11	-3	0	5.600	3.155	27.998
1	-1	0	70.465	69.510	0.869	-12	-2	0	15.728	9.834	9.929
3	-1	0	144.004	147.394	0.842	-10	-2	0	43.461	43.207	2.916
5	-1	0	20.286	21.942	3.969	10	-2	0	15.264	22.520	9.521
-6	0	0	137.003	139.322	1.131	12	-2	0	23.541	18.449	7.016
-4	0	0	30.349	25.508	2.773	-13	-1	0	5.906	6.078	29.524
-2	0	0	56.395	55.145	1.056	-11	-1	0	29.212	33.649	5.531
2	0	0	55.178	55.145	1.110	11	-1	0	24.270	7.325	6.031
4	0	0	27.796	25.508	2.478	13	-1	0	12.782	7.082	13.499
6	0	0	135.259	139.322	1.134	-12	0	0	38.944	30.901	4.264
-5	1	0	23.838	21.942	3.422	12	0	0	33.621	30.901	4.906
-3	1	0	143.430	147.394	0.827	-13	1	0	20.539	7.082	8.578
-1	1	0	72.378	69.510	0.851	-11	1	0	7.245	7.325	20.836
1	1	0	74.315	69.510	0.565	11	1	0	37.272	33.649	4.204
3	1	0	123.611	122.561	0.756	13	1	0	6.019	6.078	30.093
5	1	0	102.200	99.736	1.032	-12	2	0	21.149	18.449	7.775
-6	2	0	35.392	40.575	2.410	-10	2	0	5.457	22.520	26.814
-4	2	0	110.936	112.048	1.071	10	2	0	44.392	43.207	2.937
-2	2	0	103.289	106.295	1.021	12	2	0	16.945	9.834	9.709
0	2	0	57.525	55.145	1.550	-11	3	0	5.594	3.155	27.965
2	2	0	109.091	106.295	0.750	11	3	0	13.794	4.490	10.812
4	2	0	68.058	66.943	1.062	-12	4	0	8.557	5.200	19.465
6	2	0	21.690	21.915	2.966	-10	4	0	34.383	37.346	4.615
-5	3	0	51.717	54.428	1.946	10	4	0	5.665	11.794	26.183
-3	3	0	73.485	72.035	1.357	12	4	0	14.273	8.759	11.541
-1	3	0	120.261	122.561	0.970	-11	5	0	13.074	8.779	12.648
1	3	0	147.604	147.394	0.791	-9	5	0	22.446	2.837	6.218
3	3	0	77.865	72.035	0.991	9	5	0	28.766	25.801	4.880
5	3	0	42.348	42.731	1.639	11	5	0	24.975	13.065	6.269
-4	4	0	67.692	68.167	1.604	-10	6	0	5.683	9.514	28.412

-2	4	0	63.803	66.943	1.568	10	6	0	36.882	31.042	4.320
0	4	0	29.081	25.508	2.883	-11	7	0	12.261	8.644	14.365
2	4	0	116.181	112.048	0.991	-9	7	0	46.936	44.810	3.567
4	4	0	66.838	68.167	1.214	9	7	0	27.709	19.500	5.534
-3	5	0	43.253	42.731	2.362	11	7	0	35.535	25.338	4.948
-1	5	0	97.835	99.736	1.297	-10	8	0	12.318	7.130	13.832
1	5	0	24.273	21.942	3.716	-8	8	0	14.398	0.909	11.039
3	5	0	56.538	54.428	1.821	8	8	0	15.293	0.909	9.854
-2	6	0	21.768	21.915	4.888	10	8	0	16.120	13.240	10.455
0	6	0	136.482	139.322	1.199	-9	9	0	27.290	27.679	6.486
2	6	0	44.952	40.575	2.226	-7	9	0	21.800	19.500	7.516
-2	-5	1	91.977	93.990	1.452	-5	9	0	32.042	25.801	4.719
0	-5	1	11.657	23.832	8.724	5	9	0	17.507	2.837	8.105
2	-5	1	40.426	44.378	2.428	7	9	0	49.563	44.810	2.600
-3	-4	1	11.943	23.967	8.611	9	9	0	33.577	27.679	5.127
-1	-4	1	26.207	32.390	3.017	-8	10	0	21.872	13.240	8.039
1	-4	1	74.166	75.554	1.443	-6	10	0	35.323	31.042	4.874
3	-4	1	24.672	34.208	2.901	-4	10	0	17.819	11.794	5.977
-4	-3	1	27.775	34.208	2.681	-2	10	0	42.973	43.207	3.273
-2	-3	1	30.530	31.087	2.773	2	10	0	13.687	22.520	11.280
0	-3	1	115.455	115.254	1.148	4	10	0	43.990	37.346	3.600
2	-3	1	42.565	50.789	1.833	6	10	0	5.677	9.514	28.385
4	-3	1	17.040	23.967	5.704	8	10	0	17.501	7.130	9.471
-5	-2	1	44.121	44.378	2.029	-7	11	0	22.696	25.338	8.263
-3	-2	1	48.233	50.789	1.648	-5	11	0	32.101	13.065	5.159
-1	-2	1	71.438	74.052	1.187	-3	11	0	17.793	4.490	9.084
1	-2	1	16.924	21.928	4.639	-1	11	0	26.867	33.649	4.421
3	-2	1	22.506	31.087	3.166	1	11	0	13.725	7.325	11.250
5	-2	1	92.411	93.990	1.431	3	11	0	5.647	3.155	28.230
-4	-1	1	73.545	75.554	1.208	5	11	0	8.991	8.779	18.034
-2	-1	1	17.525	21.928	4.204	7	11	0	25.038	8.644	6.927
0	-1	1	52.979	54.156	1.583	-4	12	0	6.046	8.759	30.235
2	-1	1	72.354	74.052	1.267	-2	12	0	24.573	9.834	4.784
4	-1	1	24.713	32.390	3.636	0	12	0	39.896	30.901	4.371
-5	0	1	4.555	23.832	21.256	2	12	0	22.452	18.449	7.807
-3	0	1	119.204	115.254	1.065	4	12	0	5.933	5.200	29.658
-1	0	1	56.603	54.156	1.645	-1	13	0	6.108	6.078	30.545
1	0	1	55.383	54.156	1.675	1	13	0	13.315	7.082	13.826
3	0	1	116.321	115.254	1.148	-3	-12	1	30.277	23.714	6.129
5	0	1	14.737	23.832	6.296	-1	-12	1	6.067	16.566	30.328
-4	1	1	25.960	32.390	2.859	1	-12	1	21.705	26.553	8.789
-2	1	1	74.881	74.052	1.395	3	-12	1	4.740	19.066	38.227
0	1	1	56.311	54.156	1.931	-6	-11	1	44.952	41.745	3.981
2	1	1	10.539	21.928	7.287	-4	-11	1	6.126	30.372	30.637
4	1	1	74.583	75.554	1.458	-2	-11	1	38.501	40.047	4.284
-5	2	1	93.673	93.990	1.360	0	-11	1	5.855	28.703	29.274
-3	2	1	23.053	31.087	3.320	2	-11	1	26.106	32.571	8.521
-1	2	1	18.510	21.928	4.323	4	-11	1	42.765	43.700	3.463
1	2	1	73.554	74.052	1.488	6	-11	1	7.206	21.958	24.434
3	2	1	50.048	50.789	1.946	-7	-10	1	3.535	23.358	52.339
5	2	1	43.235	44.378	2.237	-5	-10	1	28.230	29.910	6.171
-4	3	1	4.421	23.967	22.107	-3	-10	1	5.695	26.216	28.477
-2	3	1	50.132	50.789	2.368	-1	-10	1	5.588	20.360	27.936
0	3	1	118.124	115.254	1.134	1	-10	1	16.180	19.743	9.447
2	3	1	28.748	31.087	3.020	3	-10	1	23.714	24.060	6.620
4	3	1	32.235	34.208	2.981	5	-10	1	5.677	21.588	28.391
-3	4	1	31.589	34.208	3.204	7	-10	1	19.453	25.189	9.093
-1	4	1	77.192	75.554	1.375	-8	-9	1	32.666	27.534	4.924
1	4	1	20.646	32.390	3.579	-6	-9	1	12.922	21.237	13.199
3	4	1	6.659	23.967	14.050	-4	-9	1	12.107	26.285	12.794

-2	5	1	45.222	44.378	2.699	4	-9	1	21.696	30.180	6.953
0	5	1	21.155	23.832	3.785	6	-9	1	5.591	23.465	27.953
2	5	1	92.816	93.990	1.369	8	-9	1	13.038	17.159	13.044
0	0	2	106.232	106.481	1.464	-9	-8	1	20.958	17.159	7.861
0	-10	0	34.797	23.698	4.097	-7	-8	1	25.163	23.469	6.302
-3	-9	0	22.375	11.122	5.858	7	-8	1	20.095	22.812	7.870
-1	-9	0	77.526	75.724	2.211	9	-8	1	17.492	27.534	9.584
1	-9	0	41.414	35.772	3.320	-10	-7	1	19.685	25.189	8.239
3	-9	0	16.698	9.135	8.429	-8	-7	1	22.009	22.812	6.534
-6	-8	0	7.126	9.647	19.364	8	-7	1	22.779	23.469	6.608
-4	-8	0	22.327	9.154	4.046	10	-7	1	31.982	23.358	5.284
-2	-8	0	45.553	45.926	2.687	-11	-6	1	10.360	21.958	15.299
0	-8	0	23.597	17.155	4.029	-9	-6	1	5.454	23.465	27.266
2	-8	0	27.043	14.057	4.695	9	-6	1	5.609	21.237	28.049
4	-8	0	50.983	50.315	2.922	11	-6	1	34.437	41.745	5.338
6	-8	0	23.871	14.440	6.114	-10	-5	1	12.178	21.588	12.181
-7	-7	0	31.143	21.942	4.026	10	-5	1	23.026	29.910	6.828
-5	-7	0	50.111	53.261	2.321	-11	-4	1	49.801	43.700	3.020
-3	-7	0	60.959	61.349	1.874	-9	-4	1	15.281	30.180	9.244
-1	-7	0	18.444	11.126	4.466	9	-4	1	30.810	26.285	3.722
1	-7	0	26.826	29.522	3.550	11	-4	1	28.551	30.372	4.975
3	-7	0	73.408	71.542	2.255	-12	-3	1	29.420	19.066	4.838
5	-7	0	20.021	15.325	5.701	-10	-3	1	20.664	24.060	7.105
7	-7	0	26.305	21.942	5.495	10	-3	1	16.971	26.216	8.968
-8	-6	0	24.374	14.440	4.374	12	-3	1	18.655	23.714	9.494
-6	-6	0	63.818	62.404	1.741	-11	-2	1	26.555	32.571	5.272
-4	-6	0	4.618	6.730	23.089	11	-2	1	38.171	40.047	3.273
4	-6	0	26.365	19.241	4.582	-12	-1	1	39.489	26.553	4.076
6	-6	0	60.971	62.404	2.627	-10	-1	1	24.389	19.743	6.525
8	-6	0	8.953	9.647	15.978	10	-1	1	23.142	20.360	6.120
-7	-5	0	18.983	15.325	6.129	12	-1	1	21.916	16.566	7.534
-5	-5	0	41.554	38.964	2.261	-11	0	1	26.397	28.703	5.174
5	-5	0	38.858	38.964	3.234	11	0	1	30.688	28.703	5.174
7	-5	0	49.361	53.261	2.690	-12	1	1	21.815	16.566	8.016
-8	-4	0	46.716	50.315	2.532	-10	1	1	20.899	20.360	7.465
-6	-4	0	12.125	19.241	13.719	10	1	1	21.952	19.743	6.424
6	-4	0	4.903	6.730	24.523	12	1	1	12.395	26.553	14.142
8	-4	0	16.004	9.154	8.152	-11	2	1	47.492	40.047	3.666
-9	-3	0	18.328	9.135	6.811	11	2	1	25.796	32.571	4.436
-7	-3	0	72.554	71.542	1.494	-12	3	1	32.875	23.714	5.379
7	-3	0	60.001	61.349	2.115	-10	3	1	22.259	26.216	7.480
9	-3	0	21.845	11.122	4.972	10	3	1	14.987	24.060	9.536
-8	-2	0	25.954	14.057	3.910	12	3	1	5.873	19.066	29.373
8	-2	0	47.659	45.926	2.821	-11	4	1	31.342	30.372	4.936
-9	-1	0	34.606	35.772	3.088	-9	4	1	23.645	26.285	6.373
-7	-1	0	26.957	29.522	3.660	9	4	1	24.011	30.180	5.969
7	-1	0	22.744	11.126	5.010	11	4	1	46.579	43.700	3.758
9	-1	0	67.192	75.724	2.071	-10	5	1	32.735	29.910	5.129
-10	0	0	23.550	23.698	6.052	10	5	1	22.943	21.588	6.546
-8	0	0	26.177	17.155	3.811	-11	6	1	37.064	41.745	4.430
8	0	0	26.980	17.155	3.716	-9	6	1	17.195	21.237	9.218
10	0	0	30.197	23.698	4.894	9	6	1	11.711	23.465	12.627
-9	1	0	74.047	75.724	1.979	11	6	1	7.810	21.958	22.595
-7	1	0	11.711	11.126	9.497	-10	7	1	6.105	23.358	30.533
7	1	0	28.093	29.522	3.767	-8	7	1	5.695	23.469	28.480
9	1	0	36.448	35.772	2.782	8	7	1	15.763	22.812	9.426
-8	2	0	42.464	45.926	3.074	10	7	1	14.410	25.189	11.467
8	2	0	9.363	14.057	12.833	-9	8	1	20.940	27.534	8.631
-9	3	0	25.406	11.122	5.436	-7	8	1	21.809	22.812	7.325
-7	3	0	59.754	61.349	2.083	7	8	1	15.017	23.469	9.920

7	3	0	75.601	71.542	1.467	9	8	1	20.744	17.159	7.858
9	3	0	14.832	9.135	8.783	-8	9	1	13.963	17.159	12.818
-8	4	0	22.229	9.154	5.808	-6	9	1	12.184	23.465	13.136
-6	4	0	6.775	6.730	17.067	-4	9	1	17.314	30.180	8.709
6	4	0	24.606	19.241	3.556	4	9	1	25.207	26.285	5.638
8	4	0	46.891	50.315	2.464	6	9	1	5.498	21.237	27.495
-7	5	0	53.226	53.261	2.589	8	9	1	11.887	27.534	14.145
-5	5	0	39.465	38.964	3.065	-7	10	1	35.526	25.189	4.859
5	5	0	38.534	38.964	2.606	-5	10	1	5.766	21.588	28.834
7	5	0	16.439	15.325	7.519	-3	10	1	18.102	24.060	8.542
-8	6	0	30.616	9.647	4.469	-1	10	1	5.481	19.743	27.403
-6	6	0	58.614	62.404	2.232	1	10	1	28.316	20.360	5.100
-4	6	0	17.269	19.241	6.915	3	10	1	21.699	26.216	6.953
4	6	0	15.371	6.730	7.188	5	10	1	24.927	29.910	5.243
6	6	0	63.405	62.404	1.845	7	10	1	20.762	23.358	7.340
8	6	0	14.273	14.440	10.033	-6	11	1	12.020	21.958	14.749
-7	7	0	21.571	21.942	6.715	-4	11	1	51.839	43.700	3.490
-5	7	0	19.503	15.325	6.671	-2	11	1	34.419	32.571	4.243
-3	7	0	72.206	71.542	2.220	-3	12	1	24.082	19.066	7.465
-1	7	0	27.906	29.522	4.210	-1	12	1	24.883	26.553	6.861
1	7	0	21.104	11.126	5.460	1	12	1	17.831	16.566	9.643
3	7	0	62.173	61.349	1.904	3	12	1	30.539	23.714	4.514
5	7	0	50.869	53.261	2.377	-1	-11	2	19.468	21.109	10.066
7	7	0	25.112	21.942	3.603	1	-11	2	9.881	2.701	19.042
-6	8	0	17.055	14.440	6.245	-4	-10	2	6.385	6.318	31.920
-4	8	0	52.381	50.315	2.853	-2	-10	2	19.875	10.902	9.238
-2	8	0	5.344	14.057	23.993	0	-10	2	50.331	47.112	3.829
0	8	0	15.391	17.155	8.462	2	-10	2	17.135	5.534	10.253
2	8	0	48.504	45.926	2.630	4	-10	2	22.729	17.165	7.879
4	8	0	4.508	9.154	27.983	-5	-9	2	6.358	25.551	31.789
6	8	0	15.725	9.647	8.846	-3	-9	2	38.560	38.230	3.386
-3	9	0	5.335	9.135	26.671	-1	-9	2	29.498	23.774	4.514
-1	9	0	34.255	35.772	4.058	1	-9	2	5.787	6.612	28.932
1	9	0	77.990	75.724	2.246	3	-9	2	36.386	36.556	4.912
3	9	0	19.795	11.122	6.757	5	-9	2	6.028	8.793	30.137
0	10	0	29.989	23.698	4.880	-8	-8	2	22.723	22.093	6.462
-2	-9	1	17.076	25.614	8.688	-6	-8	2	35.213	34.786	3.767
0	-9	1	23.719	26.303	6.138	-4	-8	2	31.321	26.705	4.424
2	-9	1	26.400	34.007	4.734	-2	-8	2	5.686	3.479	28.429
-5	-8	1	43.767	42.717	3.085	0	-8	2	17.727	26.460	8.902
-3	-8	1	16.430	23.462	8.527	2	-8	2	9.947	27.183	16.591
-1	-8	1	7.935	24.235	16.680	4	-8	2	21.455	6.469	7.257
1	-8	1	6.192	24.285	21.925	6	-8	2	13.948	17.466	12.032
3	-8	1	5.293	21.614	26.466	8	-8	2	6.058	22.093	30.286
5	-8	1	32.800	31.941	4.543	-7	-7	2	46.448	44.238	3.410
-6	-7	1	31.598	27.494	3.550	-5	-7	2	13.639	6.988	11.461
-4	-7	1	5.159	23.578	25.799	-3	-7	2	13.115	5.185	11.080
-2	-7	1	9.429	23.332	13.463	3	-7	2	18.819	12.879	7.998
0	-7	1	22.122	25.157	5.689	5	-7	2	43.904	44.718	3.776
2	-7	1	28.266	25.425	4.350	7	-7	2	44.993	44.238	4.023
4	-7	1	26.662	33.276	5.147	-8	-6	2	5.570	17.466	27.855
6	-7	1	14.189	22.277	9.804	-6	-6	2	32.830	12.990	4.383
-7	-6	1	22.250	22.277	6.159	6	-6	2	21.420	12.990	7.138
-5	-6	1	9.051	23.624	14.297	-9	-5	2	14.993	8.793	9.578
-3	-6	1	25.189	33.717	4.124	-7	-5	2	45.219	44.718	2.794
-1	-6	1	27.831	29.112	4.163	7	-5	2	13.913	6.988	10.979
1	-6	1	41.506	47.623	2.966	9	-5	2	5.635	25.551	30.816
3	-6	1	34.112	36.824	3.576	-10	-4	2	15.606	17.165	10.280
5	-6	1	30.831	37.008	4.284	-8	-4	2	16.034	6.469	8.313
7	-6	1	18.569	27.494	6.531	8	-4	2	14.713	26.705	10.967

-8	-5	1	32.669	31.941	4.195	10	-4	2	5.870	6.318	29.352
-6	-5	1	25.038	37.008	3.175	-9	-3	2	41.738	36.556	3.808
-4	-5	1	40.143	46.161	3.187	-7	-3	2	5.293	12.879	26.472
4	-5	1	88.656	95.332	1.726	7	-3	2	5.332	5.185	26.656
6	-5	1	17.909	23.624	6.864	9	-3	2	46.091	38.230	3.681
8	-5	1	41.848	42.717	3.520	-10	-2	2	19.453	5.534	8.801
-7	-4	1	25.142	33.276	3.728	-8	-2	2	31.443	27.183	4.737
-5	-4	1	89.817	95.332	1.506	8	-2	2	22.160	3.479	6.192
5	-4	1	39.914	46.161	3.115	10	-2	2	5.772	10.902	28.861
7	-4	1	10.223	23.578	12.095	-11	-1	2	18.054	2.701	9.988
-8	-3	1	5.183	21.614	25.912	-9	-1	2	5.722	6.612	28.614
-6	-3	1	32.384	36.824	2.440	9	-1	2	24.933	23.774	6.567
6	-3	1	23.356	33.717	5.210	11	-1	2	22.937	21.109	7.676
8	-3	1	21.057	23.462	9.063	-10	0	2	52.735	47.112	3.282
-9	-2	1	40.837	34.007	3.627	-8	0	2	30.102	26.460	3.841
-7	-2	1	5.082	25.425	25.415	8	0	2	34.353	26.460	4.180
7	-2	1	5.073	23.332	25.368	10	0	2	49.754	47.112	3.654
9	-2	1	23.529	25.614	5.826	-11	1	2	23.440	21.109	8.361
-8	-1	1	18.159	24.285	7.418	-9	1	2	36.153	23.774	4.520
-6	-1	1	47.760	47.623	2.107	9	1	2	5.504	6.612	27.528
6	-1	1	19.527	29.112	5.594	11	1	2	6.680	2.701	25.282
8	-1	1	19.994	24.235	6.016	-10	2	2	6.052	10.902	30.262
-9	0	1	19.384	26.303	7.682	-8	2	2	20.860	3.479	6.983
-7	0	1	7.290	25.157	17.049	8	2	2	30.170	27.183	4.731
7	0	1	7.971	25.157	14.868	10	2	2	15.302	5.534	10.488
9	0	1	21.762	26.303	6.299	-9	3	2	45.297	38.230	3.877
-8	1	1	5.174	24.235	25.877	-7	3	2	17.087	5.185	8.379
-6	1	1	31.164	29.112	3.148	7	3	2	6.296	12.879	22.657
6	1	1	44.862	47.623	2.243	9	3	2	33.470	36.556	4.284
8	1	1	11.220	24.285	10.869	-10	4	2	23.086	6.318	7.905
-9	2	1	5.617	25.614	28.081	-8	4	2	26.683	26.705	6.278
-7	2	1	16.350	23.332	7.781	8	4	2	5.668	6.469	26.100
7	2	1	23.368	25.425	4.868	10	4	2	5.745	17.165	28.727
9	2	1	26.802	34.007	5.195	-9	5	2	23.630	25.551	5.115
-8	3	1	5.332	23.462	26.656	-7	5	2	22.223	6.988	6.778
-6	3	1	22.919	33.717	5.168	7	5	2	46.903	44.718	3.166
6	3	1	29.045	36.824	3.237	9	5	2	13.431	8.793	12.175
8	3	1	7.659	21.614	16.549	-8	6	2	37.599	34.786	3.559
-7	4	1	5.144	23.578	25.716	-6	6	2	19.423	12.990	8.370
-5	4	1	40.887	46.161	3.011	6	6	2	23.841	12.990	6.168
5	4	1	95.663	95.332	1.381	8	6	2	8.631	17.466	18.477
7	4	1	22.958	33.276	5.353	-7	7	2	42.910	44.238	4.204
-8	5	1	42.366	42.717	3.630	-5	7	2	39.278	44.718	4.386
-6	5	1	5.061	23.624	25.308	-3	7	2	9.075	12.879	15.278
-4	5	1	88.814	95.332	1.836	3	7	2	6.085	5.185	22.669
4	5	1	44.919	46.161	2.431	5	7	2	5.356	6.988	26.778
6	5	1	30.491	37.008	4.097	7	7	2	44.062	44.238	3.645
8	5	1	30.173	31.941	4.180	-8	8	2	31.833	22.093	5.748
-7	6	1	31.598	27.494	3.770	-6	8	2	20.238	17.466	8.518
-5	6	1	35.543	37.008	3.437	-4	8	2	24.463	6.469	6.001
-3	6	1	26.739	36.824	4.647	-2	8	2	33.166	27.183	4.478
-1	6	1	45.618	47.623	2.181	0	8	2	32.779	26.460	4.412
1	6	1	30.372	29.112	3.487	2	8	2	21.500	3.479	6.623
3	6	1	30.238	33.717	3.719	4	8	2	27.730	26.705	3.797
5	6	1	4.981	23.624	24.901	6	8	2	33.731	34.786	4.984
7	6	1	5.180	22.277	25.900	8	8	2	20.592	22.093	8.667
-4	7	1	13.103	33.276	10.619	-5	9	2	7.343	8.793	23.437
-2	7	1	23.425	25.425	5.296	-3	9	2	39.224	36.556	4.163
0	7	1	20.191	25.157	5.882	-1	9	2	22.863	6.612	6.215
2	7	1	13.321	23.332	9.313	1	9	2	20.816	23.774	7.554

4	7	1	21.818	23.578	5.388	3	9	2	49.953	38.230	3.323
6	7	1	29.765	27.494	4.627	5	9	2	23.743	25.551	4.847
-5	8	1	40.896	31.941	3.657	-4	10	2	5.909	17.165	29.545
-3	8	1	11.524	21.614	11.550	-2	10	2	15.760	5.534	10.509
-1	8	1	21.646	24.285	5.853	0	10	2	49.052	47.112	3.657
1	8	1	18.236	24.235	6.891	2	10	2	5.781	10.902	28.911
3	8	1	20.586	23.462	6.326	4	10	2	23.496	6.318	5.454
5	8	1	41.003	42.717	2.957	-1	11	2	23.624	2.701	6.977
-2	9	1	29.257	34.007	4.832	1	11	2	34.359	21.109	4.841
0	9	1	26.707	26.303	4.177	-1	-8	3	8.093	14.760	22.568
2	9	1	25.868	25.614	4.445	1	-8	3	6.215	19.606	31.072
-1	-7	2	48.912	49.250	2.841	-4	-7	3	19.411	12.744	8.890
1	-7	2	22.738	23.450	3.895	-2	-7	3	30.572	21.114	4.653
-4	-6	2	46.249	41.865	2.651	2	-7	3	20.631	17.262	8.524
-2	-6	2	18.391	20.405	7.203	4	-7	3	27.510	23.258	4.484
0	-6	2	46.406	45.779	2.514	-5	-6	3	15.641	13.536	10.479
2	-6	2	43.160	35.023	3.151	-1	-6	3	23.975	23.166	6.576
4	-6	2	32.634	29.287	3.892	1	-6	3	16.073	24.773	10.271
-5	-5	2	26.344	14.945	3.808	3	-6	3	14.520	19.887	11.553
-3	-5	2	24.204	12.543	4.633	5	-6	3	31.762	25.615	5.689
-1	-5	2	41.875	39.938	2.874	-6	-5	3	32.161	25.615	5.335
1	-5	2	4.960	12.443	24.800	-4	-5	3	40.358	37.931	3.672
3	-5	2	28.498	20.850	3.615	-2	-5	3	35.305	42.019	4.653
5	-5	2	3.193	14.945	46.252	0	-5	3	27.659	34.043	4.514
-6	-4	2	37.463	29.287	3.344	2	-5	3	40.756	43.910	4.070
-4	-4	2	13.773	7.031	8.304	4	-5	3	46.389	44.596	3.877
-2	-4	2	4.921	16.858	24.600	6	-5	3	24.672	13.536	6.894
0	-4	2	42.190	49.828	2.490	-7	-4	3	23.008	23.258	7.415
2	-4	2	12.544	15.542	9.369	-5	-4	3	42.295	44.596	4.082
4	-4	2	4.963	7.031	24.817	-3	-4	3	8.771	30.884	17.168
6	-4	2	52.369	41.865	2.966	-1	-4	3	37.403	44.568	3.951
-5	-3	2	29.753	20.850	4.109	1	-4	3	28.522	36.439	5.210
-3	-3	2	30.432	28.145	3.773	3	-4	3	5.513	27.567	27.573
-1	-3	2	34.654	32.527	3.291	5	-4	3	43.669	37.931	3.907
1	-3	2	6.939	21.921	16.805	7	-4	3	10.185	12.744	16.840
3	-3	2	26.811	28.145	4.508	-6	-3	3	13.945	19.887	11.277
5	-3	2	11.904	12.543	10.765	-4	-3	3	14.838	27.567	9.625
-6	-2	2	37.971	35.023	3.564	-2	-3	3	5.373	35.844	26.864
-4	-2	2	4.784	15.542	23.928	0	-3	3	30.253	44.114	3.877
-2	-2	2	17.775	19.842	5.781	2	-3	3	12.886	34.290	11.226
0	-2	2	39.236	41.611	2.785	4	-3	3	15.945	30.884	9.539
2	-2	2	5.159	19.842	21.515	6	-3	3	26.537	19.355	5.835
4	-2	2	15.746	16.858	7.432	-7	-2	3	13.011	17.262	12.776
6	-2	2	32.443	20.405	4.049	-5	-2	3	41.539	43.910	3.737
-7	-1	2	22.681	23.450	4.439	-3	-2	3	7.376	34.290	18.840
-5	-1	2	4.862	12.443	24.303	-1	-2	3	19.465	41.530	7.245
-3	-1	2	13.344	21.921	8.224	1	-2	3	34.788	48.152	4.139
-1	-1	2	30.438	37.551	3.380	3	-2	3	21.223	35.844	6.492
1	-1	2	29.727	37.551	3.487	5	-2	3	38.150	42.019	4.189
3	-1	2	28.162	32.527	3.484	7	-2	3	15.537	21.114	10.684
5	-1	2	46.671	39.938	2.716	-8	-1	3	26.671	19.606	6.614
7	-1	2	56.844	49.250	2.592	-6	-1	3	5.698	24.773	28.492
-6	0	2	42.390	45.779	2.972	-4	-1	3	22.568	36.439	6.379
-4	0	2	48.933	49.828	2.297	-2	-1	3	33.574	48.152	4.273
-2	0	2	35.085	41.611	2.324	0	-1	3	14.085	42.878	9.851
2	0	2	35.731	41.611	3.130	2	-1	3	27.180	41.530	5.103
4	0	2	45.930	49.828	2.267	4	-1	3	31.806	44.568	4.814
6	0	2	47.671	45.779	2.883	6	-1	3	15.615	23.166	9.786
-7	1	2	55.371	49.250	2.624	8	-1	3	31.943	14.760	5.106
-5	1	2	43.541	39.938	2.996	-7	0	3	5.754	19.297	28.766

-3	1	2	36.746	32.527	3.053	-5	0	3	4.231	34.043	36.763
-1	1	2	32.589	37.551	3.258	-3	0	3	21.717	44.114	6.757
1	1	2	34.246	37.551	2.577	-1	0	3	15.112	42.878	8.819
3	1	2	18.893	21.921	5.835	1	0	3	11.875	42.878	11.360
5	1	2	4.865	12.443	24.326	3	0	3	35.383	44.114	3.707
7	1	2	27.275	23.450	5.138	5	0	3	18.108	34.043	8.197
-6	2	2	23.541	20.405	5.906	7	0	3	5.707	19.297	28.528
-4	2	2	14.808	16.858	8.254	-8	1	3	1.622	14.760	109.873
-2	2	2	9.753	19.842	11.116	-6	1	3	24.062	23.166	6.483
0	2	2	34.904	41.611	3.255	-4	1	3	31.048	44.568	3.681
2	2	2	13.184	19.842	8.126	-2	1	3	3.728	41.530	39.057
4	2	2	4.886	15.542	24.428	0	1	3	5.278	42.878	26.385
6	2	2	43.544	35.023	3.082	2	1	3	30.839	48.152	4.552
-5	3	2	18.114	12.543	7.129	4	1	3	29.423	36.439	5.005
-3	3	2	32.378	28.145	3.740	6	1	3	9.301	24.773	16.677
-1	3	2	9.694	21.921	11.285	8	1	3	31.899	19.606	5.347
1	3	2	34.377	32.527	3.368	-7	2	3	20.985	21.114	8.393
3	3	2	32.776	28.145	3.683	-5	2	3	40.849	42.019	3.285
5	3	2	20.173	20.850	6.114	-3	2	3	23.475	35.844	5.939
-6	4	2	47.629	41.865	3.320	-1	2	3	37.668	48.152	3.285
-4	4	2	9.694	7.031	13.121	1	2	3	24.511	41.530	5.775
-2	4	2	14.222	15.542	8.402	3	2	3	18.641	34.290	7.203
0	4	2	47.957	49.828	2.708	5	2	3	40.292	43.910	3.981
2	4	2	17.703	16.858	6.665	7	2	3	17.129	17.262	9.387
4	4	2	4.984	7.031	24.916	-6	3	3	5.948	19.355	29.739
6	4	2	34.374	29.287	3.880	-4	3	3	22.755	30.884	6.605
-3	5	2	26.513	20.850	4.835	-2	3	3	24.716	34.290	5.487
-1	5	2	12.446	12.443	9.569	0	3	3	35.442	44.114	3.996
1	5	2	40.893	39.938	2.702	2	3	3	7.010	35.844	20.857
3	5	2	4.987	12.543	24.936	4	3	3	17.781	27.567	8.266
5	5	2	22.232	14.945	6.138	6	3	3	5.695	19.887	28.474
-4	6	2	30.494	29.287	4.984	-7	4	3	16.977	12.744	11.024
-2	6	2	42.845	35.023	3.312	-5	4	3	36.841	37.931	4.145
0	6	2	41.173	45.779	2.791	-3	4	3	5.659	27.567	28.290
2	6	2	28.364	20.405	3.773	-1	4	3	20.363	36.439	7.531
4	6	2	46.347	41.865	3.082	1	4	3	30.105	44.568	3.704
-1	7	2	22.592	23.450	6.073	3	4	3	18.834	30.884	8.111
1	7	2	47.873	49.250	2.940	5	4	3	45.056	44.596	3.859
-1	-13	0	21.544	7.082	8.164	7	4	3	6.689	23.258	26.332
1	-13	0	6.096	6.078	30.488	-4	5	3	45.178	44.596	3.969
-4	-12	0	4.600	5.200	38.569	-2	5	3	46.023	43.910	3.529
0	-12	0	38.477	30.901	4.531	0	5	3	9.411	34.043	16.558
2	-12	0	15.469	9.834	10.946	2	5	3	43.134	42.019	3.800
4	-12	0	20.768	8.759	8.652	4	5	3	41.271	37.931	4.145
-7	-11	0	21.092	8.644	7.992	6	5	3	27.403	25.615	6.329
-5	-11	0	5.698	8.779	28.492	-5	6	3	15.272	25.615	12.062
-3	-11	0	4.528	3.155	34.011	-3	6	3	5.757	19.887	28.789
-1	-11	0	13.942	7.325	10.928	-1	6	3	18.926	24.773	8.429
1	-11	0	27.959	33.649	4.171	1	6	3	16.299	23.166	9.756
3	-11	0	11.762	4.490	13.452	3	6	3	18.754	19.355	8.328
5	-11	0	5.882	13.065	29.417	5	6	3	5.858	13.536	29.295
7	-11	0	36.951	25.338	4.939	-4	7	3	6.171	23.258	30.854
-8	-10	0	12.422	7.130	13.395	-2	7	3	15.332	17.262	10.890
-6	-10	0	5.728	9.514	27.147	0	7	3	16.662	19.297	9.839
-4	-10	0	28.578	37.346	5.409	2	7	3	5.903	21.114	29.512
-2	-10	0	33.895	22.520	4.273	4	7	3	8.884	12.744	19.584
2	-10	0	47.680	43.207	3.249	-1	8	3	16.727	19.606	10.557
4	-10	0	22.639	11.794	6.873	1	8	3	25.600	14.760	6.477