AM-86-318

Crystal-chemical aspects of nonstoichiometric pyreoxenes

McCormick

To be deposited: Table 4

AMerican Mineralogist, 71 ,11-12, 1434-1440

Table 4. Observed and calculated structure factors for final refinement cycle.

h	k	l	f(obs)	f(calc)
0	0	2	136.466	141.827
0	0	4	103.168	105.159
0	0	6	37.801	38.159
0	0	8	40.864	41.253
0	2	0	50.131	48.682
0	2	1	40.707	38.098
0	2	2	61.675	60.086
0	2	3	10.681	10.572
0	2	4	13.979	13.279
0	2	5	8.508	8.118
0	2	6	6.335	5.484
0	2	7	2.461	1.398
0	4	0	1.832	1.174
0	4	1	91.361	91.446
0	4	2	63.063	63.047
0	4	3	33.168	33.073
0	4	4	13.168	11.859
0	4	5	17.094	15.832
0	4	6	37.277	37.340
0	4	7	16.545	16.725
0	6	0	97.644	98.723
0	6	1	38.508	38.231
0	6	2	99.476	101.777
0	6	3	31.832	31.256
0	6	4	24.974	23.753
0	6	5	19.319	19.107
0	6	6	32.356	32.298
0	6	7	7.173	7.380
0	8	0	.838	.499
0	8	1	14.319	14.238
0	8	2	19.398	18.698
0	8	3	1.597	.212
0	8	4	8.168	8.293
0	8	5	1.963	1.558
0	8	6	17.775	17.826
0	10	0	66.702	66.858
0	10	1	25.707	25.219
0	10	2	43.508	43.422
0	10	3	4.921	5.175
0	10	4	49.607	49.637
0	10	5	1.859	1.441
0	12	0	44.162	43.738
0	12	1	6.047	6.272
0	12	2	20.445	19.842
0	12	3	5.812	6.274
0	12	4	15.209	14.712
1	1	-8	12.487	13.009
1	1	-7	1.911	1.418
1	1	-6	7.801	7.883
1	1	-5	6.230	6.232
1	1	-4	47.853	47.051
1	1	-3	16.885	16.041
1	1	-2	9.948	8.238
1	1	-1	24.031	22.477
1	1	0	13.089	10.138
1	1	1	6.754	6.179
1	1	2	75.550	74.404
1	1	3	13.534	13.375
1	1	4	3.770	3.240
1	1	5	1.518	1.021
1	1	6	26.597	26.474
1	1	7	11.230	10.991
1	3	-8	7.853	7.927
1	3	-7	45.314	45.643
1	3	-6	21.990	22.284
1	3	-5	81.702	82.969
1	3	-4	11.387	9.263
1	3	-3	108.220	110.012
1	3	-2	45.864	44.163
1	3	-1	71.387	70.834
1	3	0	3.246	3.856
1	3	1	22.173	21.338
1	3	2	37.461	35.873
1	3	3	13.560	14.227
1	3	4	7.277	7.241
1	3	5	12.120	11.888
1	3	6	10.105	10.112
1	3	7	3.455	1.653
1	5	-7	7.120	7.556
1	5	-6	1.440	.062
1	5	-5	6.754	6.782
1	5	-4	8.272	8.109
1	5	-3	14.110	14.260
1	5	-2	3.403	1.598
1	5	-1	27.592	27.423
1	5	0	76.518	77.431
1	5	1	5.576	5.677
1	5	2	47.382	46.407
1	5	3	25.864	26.354
1	5	4	49.869	49.380
1	5	5	12.408	12.815
1	5	6	27.330	27.639
1	5	7	4.843	4.026
1	7	-7	26.361	27.307
1	7	-6	20.550	20.635
1	7	-5	32.435	32.643
1	7	-4	26.597	26.543
1	7	-3	58.639	58.506
1	7	-2	36.728	35.949
1	7	-1	50.628	51.089
1	7	0	19.450	19.220
1	7	1	56.257	56.846
1	7	2	5.654	5.526
1	7	3	30.366	30.672
1	7	4	9.215	8.866
1	7	5	23.063	22.935

h	k	l	f(obs)	f(calc)
1	7	6	4.319	4.103
1	9	-6	8.377	9.242
1	9	-5	23.770	23.366
1	9	-4	11.492	11.467
1	9	-3	38.272	37.902
1	9	-2	5.000	4.812
1	9	-1	1.414	.467
1	9	0	3.455	2.967
1	9	1	13.927	13.693
1	9	2	19.031	18.671
1	9	3	21.047	20.955
1	9	4	11.466	11.662
1	9	5	3.063	3.731
1	11	-5	4.686	4.465
1	11	-4	15.707	15.390
1	11	-3	13.796	14.099
1	11	-2	7.042	6.982
1	11	-1	2.984	2.986
1	11	0	3.194	2.990
1	11	1	12.958	13.060
1	11	2	11.440	11.539
1	11	3	10.314	10.602
1	11	4	1.702	1.039
1	13	-3	22.199	22.581
1	13	-2	5.890	5.320
1	13	-1	32.147	32.541
1	13	0	16.126	15.713
1	13	1	19.241	18.690
1	13	2	24.581	23.849
2	0	-8	17.016	17.468
2	0	-6	28.743	28.668
2	0	-4	14.895	14.229
2	0	-2	44.503	42.101
2	0	0	6.859	8.022
2	0	2	65.733	64.427
2	0	4	7.513	6.487
2	0	6	2.461	2.380
2	2	-8	2.382	2.300
2	2	-7	15.759	16.366
2	2	-6	12.618	12.613
2	2	-5	38.403	38.112
2	2	-4	10.733	10.719
2	2	-3	103.927	105.236
2	2	-2	15.471	14.284
2	2	-1	124.005	131.632
2	2	0	45.838	44.910
2	2	1	93.115	97.121
2	2	2	26.937	26.519
2	2	3	79.764	81.223
2	2	4	45.681	45.910
2	2	5	74.450	76.078
2	2	6	31.440	31.879
2	2	7	44.319	44.978

h	k	l	f(obs)	f(calc)
2	4	-7	2.199	2.119
2	4	-6	10.157	10.025
2	4	-5	5.157	4.465
2	4	-4	15.733	15.964
2	4	-3	52.147	52.096
2	4	-2	17.173	15.856
2	4	-1	45.681	44.255
2	4	0	7.513	7.378
2	4	1	20.471	20.296
2	4	2	34.738	33.882
2	4	3	12.984	13.745
2	4	4	32.670	32.338
2	4	5	32.723	32.948
2	4	6	28.194	28.479
2	4	7	16.073	15.868
2	6	-7	3.534	3.528
2	6	-6	2.853	2.620
2	6	-5	8.639	8.610
2	6	-4	21.466	21.336
2	6	-3	3.482	2.670
2	6	-2	60.340	61.009
2	6	-1	14.869	15.391
2	6	0	24.058	23.854
2	6	1	1.152	1.493
2	6	2	9.372	9.428
2	6	3	12.487	12.266
2	6	4	13.743	13.764
2	6	5	3.874	4.007
2	6	6	19.267	19.099
2	8	-6	15.183	15.709
2	8	-5	30.105	30.436
2	8	-4	21.623	21.850
2	8	-3	48.534	48.397
2	8	-2	7.984	8.180
2	8	-1	79.869	80.544
2	8	0	21.623	22.227
2	8	1	58.246	58.849
2	8	2	13.194	13.387
2	8	3	68.377	69.079
2	8	4	1.675	1.850
2	8	5	51.073	51.554
2	8	6	6.466	6.091
2	10	-5	17.147	16.571
2	10	-4	14.843	14.913
2	10	-3	23.194	23.050
2	10	-2	14.005	13.913
2	10	-1	36.702	36.238
2	10	0	1.283	.185
2	10	1	5.000	4.140
2	10	2	3.796	3.229
2	10	3	14.398	14.256
2	10	4	10.785	10.608
2	10	5	9.869	9.748

h	k	l	f(obs)	f(calc)
2	12	-4	19.764	19.851
2	12	-3	34.058	34.080
2	12	-2	25.445	25.557
2	12	-1	28.168	27.585
2	12	0	20.393	20.518
2	12	1	42.670	42.214
2	12	2	7.592	7.795
2	12	3	23.770	23.363
3	1	-8	35.366	35.667
3	1	-7	21.990	22.340
3	1	-6	40.916	40.571
3	1	-5	45.524	45.187
3	1	-4	87.120	88.069
3	1	-3	66.361	64.912
3	1	-2	6.335	6.157
3	1	-1	73.927	73.599
3	1	0	85.052	86.639
3	1	1	69.634	69.876
3	1	2	34.869	35.070
3	1	3	30.838	30.039
3	1	4	45.497	45.022
3	1	5	1.859	.423
3	1	6	10.157	10.134
3	1	7	11.126	10.720
3	3	-8	8.743	9.156
3	3	-7	17.565	17.804
3	3	-6	10.236	9.810
3	3	-5	18.770	18.933
3	3	-4	24.764	25.226
3	3	-3	21.937	20.631
3	3	-2	21.963	20.136
3	3	-1	79.817	80.197
3	3	0	52.644	53.325
3	3	1	26.911	25.903
3	3	2	8.770	7.705
3	3	3	5.262	4.705
3	3	4	23.691	24.089
3	3	5	17.513	17.208
3	3	6	2.880	3.083
3	3	7	23.010	23.066
3	5	-7	7.958	7.129
3	5	-6	79.031	80.419
3	5	-5	16.204	16.496
3	5	-4	77.225	78.141
3	5	-3	20.550	20.620
3	5	-2	109.817	114.555
3	5	-1	10.812	9.847
3	5	0	67.801	71.541
3	5	1	24.188	23.789
3	5	2	100.576	105.685
3	5	3	9.555	9.240
3	5	4	37.068	36.587
3	5	5	6.702	6.611
3	5	6	22.775	22.595
3	7	-7	1.832	3.309
3	7	-6	32.120	32.066
3	7	-5	17.356	17.059
3	7	-4	9.031	8.719
3	7	-3	13.770	13.711
3	7	-2	13.534	13.278
3	7	-1	12.853	13.191
3	7	0	15.105	14.657
3	7	1	1.257	.866
3	7	2	30.550	30.617
3	7	3	8.508	8.545
3	7	4	4.372	.190
3	7	5	23.953	24.051
3	7	6	1.152	.545
3	9	-6	6.885	6.863
3	9	-5	31.178	31.182
3	9	-4	26.126	25.889
3	9	-3	12.801	12.823
3	9	-2	10.576	10.704
3	9	-1	6.518	6.513
3	9	0	26.361	26.671
3	9	1	12.618	12.663
3	9	2	1.675	.295
3	9	3	21.597	21.684
3	9	4	13.141	12.817
3	9	5	5.052	4.053
3	11	-5	3.403	.776
3	11	-4	45.864	45.569
3	11	-3	9.293	9.237
3	11	-2	29.738	29.762
3	11	-1	7.592	7.809
3	11	0	40.864	40.901
3	11	1	5.209	5.350
3	11	2	22.984	23.046
3	11	3	1.099	1.127
3	11	4	17.984	18.157
3	13	-3	13.534	13.074
3	13	-2	3.063	3.272
3	13	-1	6.309	5.820
3	13	0	8.874	9.050
3	13	1	3.508	3.848
3	13	2	10.288	10.915
4	0	-8	2.277	1.611
4	0	-6	48.246	48.169
4	0	-4	54.869	53.263
4	0	-2	85.209	84.150
4	0	0	5.654	4.856
4	0	2	104.895	109.870
4	0	4	70.812	71.709
4	0	6	62.120	63.765
4	2	-8	25.628	25.811
4	2	-7	31.937	32.225

h	k	l	f(obs)	f(calc)
4	2	-6	4.895	1.511
4	2	-5	23.953	24.092
4	2	-4	15.654	14.935
4	2	-3	24.686	25.151
4	2	-2	36.047	33.865
4	2	-1	55.812	55.343
4	2	0	16.806	16.366
4	2	1	16.178	15.537
4	2	2	55.393	55.827
4	2	3	17.723	17.939
4	2	4	12.120	11.926
4	2	5	15.209	15.196
4	2	6	15.969	15.718
4	2	7	1.152	.695
4	4	-8	6.257	6.390
4	4	-7	5.288	4.813
4	4	-6	12.304	12.187
4	4	-5	10.602	10.181
4	4	-4	31.832	31.351
4	4	-3	18.272	17.527
4	4	-2	15.550	15.740
4	4	-1	9.869	9.998
4	4	0	74.869	77.232
4	4	1	20.052	19.498
4	4	2	43.848	44.329
4	4	3	38.560	38.574
4	4	4	58.482	58.849
4	4	5	32.094	31.794
4	4	6	15.759	15.633
4	6	-7	1.152	.917
4	6	-6	7.120	5.464
4	6	-5	5.995	5.672
4	6	-4	38.770	37.645
4	6	-3	5.969	5.455
4	6	-2	2.435	2.181
4	6	-1	20.838	20.791
4	6	0	22.958	22.412
4	6	1	12.984	12.699
4	6	2	23.770	23.372
4	6	3	16.571	16.324
4	6	4	54.791	54.533
4	6	5	10.733	10.974
4	6	6	21.021	20.957
4	8	-6	2.068	.607
4	8	-5	16.545	16.116
4	8	-4	24.398	24.902
4	8	-3	18.351	18.405
4	8	-2	6.335	6.051
4	8	-1	11.832	11.004
4	8	0	27.696	27.833
4	8	1	2.068	1.887
4	8	2	16.492	16.672
4	8	3	20.995	20.863
4	8	4	30.052	29.845
4	8	5	10.157	10.148
4	10	-5	7.225	6.891
4	10	-4	19.136	19.290
4	10	-3	4.948	5.051
4	10	-2	47.853	48.111
4	10	-1	12.382	11.793
4	10	0	45.524	45.665
4	10	1	11.754	11.554
4	10	2	61.335	62.424
4	10	3	10.157	10.505
4	10	4	40.340	40.166
4	12	-4	3.063	3.160
4	12	-3	11.152	10.823
4	12	-2	4.529	3.613
4	12	-1	13.351	12.919
4	12	0	8.534	7.966
4	12	1	6.440	5.476
4	12	2	13.927	14.245
5	1	-8	16.387	16.960
5	1	-7	25.471	25.471
5	1	-6	18.927	18.703
5	1	-5	29.738	29.146
5	1	-4	10.366	10.654
5	1	-3	32.251	31.705
5	1	-2	31.047	29.854
5	1	-1	31.361	30.610
5	1	0	60.209	59.773
5	1	1	19.188	18.875
5	1	2	35.497	35.044
5	1	3	6.283	6.083
5	1	4	2.251	.995
5	1	5	8.377	8.278
5	1	6	1.126	1.426
5	3	-8	5.314	5.167
5	3	-7	44.634	44.674
5	3	-6	11.440	11.574
5	3	-5	45.812	44.865
5	3	-4	19.791	18.904
5	3	-3	67.670	69.105
5	3	-2	24.791	23.658
5	3	-1	109.974	116.075
5	3	0	27.775	27.608
5	3	1	126.990	135.408
5	3	2	20.105	19.713
5	3	3	69.660	71.465
5	3	4	19.398	19.205
5	3	5	40.026	40.358
5	3	6	8.665	8.031
5	5	-7	22.696	22.597
5	5	-6	8.089	8.111
5	5	-5	13.770	13.433
5	5	-4	1.832	1.688

h	k	l	f(obs)	f(calc)
5	5	-3	21.937	22.013
5	5	-2	1.099	2.378
5	5	-1	16.597	16.286
5	5	0	16.492	17.085
5	5	1	21.728	21.657
5	5	2	4.267	4.072
5	5	3	9.372	9.341
5	5	4	16.832	16.969
5	5	5	4.188	4.273
5	5	6	18.665	18.230
5	7	-7	35.000	35.435
5	7	-6	14.188	14.329
5	7	-5	59.005	59.884
5	7	-4	7.853	7.586
5	7	-3	58.325	58.815
5	7	-2	22.906	22.841
5	7	-1	74.974	76.297
5	7	0	45.105	46.032
5	7	1	47.801	48.552
5	7	2	29.817	29.899
5	7	3	38.063	37.849
5	7	4	12.199	11.930
5	7	5	14.188	14.127
5	9	-6	3.037	2.233
5	9	-5	15.995	16.507
5	9	-4	9.607	9.873
5	9	-3	9.843	9.338
5	9	-2	11.309	11.344
5	9	-1	45.052	45.063
5	9	0	9.267	9.416
5	9	1	37.277	37.226
5	9	2	13.168	13.004
5	9	3	29.058	28.838
5	9	4	9.319	9.364
5	11	-5	9.712	9.589
5	11	-4	17.984	18.021
5	11	-3	4.398	5.152
5	11	-2	21.204	20.981
5	11	-1	12.435	12.400
5	11	0	22.539	22.525
5	11	1	2.592	1.104
5	11	2	12.513	12.735
5	11	3	1.204	1.122
5	13	-2	6.911	6.680
5	13	-1	30.602	30.651
5	13	0	5.419	5.054
6	0	-8	44.607	44.881
6	0	-6	44.476	43.950
6	0	-4	109.241	112.890
6	0	-2	92.775	93.957
6	0	0	72.853	72.098
6	0	2	4.686	5.072
6	0	4	16.466	16.058
6	0	6	4.084	4.012
6	2	-8	10.471	9.981
6	2	-7	3.639	3.648
6	2	-6	16.387	16.426
6	2	-5	8.743	8.531
6	2	-4	8.639	7.595
6	2	-3	4.084	3.963
6	2	-2	36.545	34.872
6	2	-1	40.131	41.462
6	2	0	12.304	12.408
6	2	1	65.916	67.583
6	2	2	35.079	34.741
6	2	3	53.770	53.835
6	2	4	4.895	5.174
6	2	5	30.497	30.475
6	2	6	6.047	5.767
6	4	-8	9.712	9.920
6	4	-7	11.754	11.485
6	4	-6	23.796	24.123
6	4	-5	16.675	16.872
6	4	-4	2.094	1.714
6	4	-3	38.822	39.165
6	4	-2	24.660	24.373
6	4	-1	9.372	9.310
6	4	0	20.654	19.819
6	4	1	17.356	17.242
6	4	2	6.518	6.434
6	4	3	19.607	19.107
6	4	4	5.864	5.816
6	4	5	3.796	4.094
6	4	6	7.644	6.797
6	6	-7	10.838	11.035
6	6	-6	35.445	35.502
6	6	-5	19.267	19.159
6	6	-4	39.058	38.899
6	6	-3	10.236	9.936
6	6	-2	61.283	61.718
6	6	-1	17.984	18.061
6	6	0	2.016	1.799
6	6	1	4.424	4.463
6	6	2	5.916	5.936
6	6	3	3.220	2.777
6	6	4	17.330	17.166
6	6	5	8.194	8.005
6	8	-6	5.916	5.638
6	8	-5	3.482	2.512
6	8	-4	3.037	2.325
6	8	-3	14.424	14.057
6	8	-2	16.649	17.191
6	8	-1	23.037	22.589
6	8	0	6.597	7.039
6	8	1	46.257	47.155
6	8	2	11.178	11.274

h	k	l	f(obs)	f(calc)
6	8	3	31.492	31.847
6	8	4	10.393	10.755
6	10	-5	10.262	9.521
6	10	-4	31.963	32.048
6	10	-3	9.948	10.002
6	10	-2	17.644	17.615
6	10	-1	7.461	6.995
6	10	0	23.639	23.508
6	10	1	18.743	18.985
6	10	2	8.377	8.159
6	10	3	9.869	9.486
6	12	-3	2.539	1.550
6	12	-2	11.152	11.019
6	12	-1	13.010	13.164
6	12	0	2.984	1.967
6	12	1	8.717	8.954
7	1	-8	2.277	2.955
7	1	-7	9.948	10.141
7	1	-6	29.188	28.815
7	1	-5	12.461	11.957
7	1	-4	28.796	27.954
7	1	-3	23.482	22.859
7	1	-2	99.948	103.381
7	1	-1	23.508	23.088
7	1	0	42.592	43.706
7	1	1	13.115	12.869
7	1	2	54.005	54.431
7	1	3	14.817	14.783
7	1	4	21.178	21.102
7	1	5	21.440	21.194
7	1	6	37.199	36.723
7	3	-8	4.686	4.826
7	3	-7	17.094	15.954
7	3	-6	13.272	13.130
7	3	-5	6.649	6.461
7	3	-4	14.634	14.146
7	3	-3	33.115	33.305
7	3	-2	21.623	21.183
7	3	-1	48.717	48.723
7	3	0	20.681	20.696
7	3	1	19.450	19.576
7	3	2	13.351	13.017
7	3	3	4.607	4.631
7	3	4	10.314	10.220
7	3	5	9.267	8.478
7	5	-7	1.152	.096
7	5	-6	24.084	24.553
7	5	-5	4.346	4.632
7	5	-4	73.796	74.962
7	5	-3	1.309	1.995
7	5	-2	73.560	75.321
7	5	-1	2.147	2.296
7	5	0	93.534	97.835
7	5	1	11.152	11.485
7	5	2	46.152	46.128
7	5	3	7.304	7.258
7	5	4	57.801	59.061
7	5	5	7.304	7.246
7	7	-7	3.272	3.693
7	7	-6	8.560	8.575
7	7	-5	4.686	4.221
7	7	-4	27.749	27.268
7	7	-3	3.639	3.308
7	7	-2	26.335	26.327
7	7	-1	1.963	1.181
7	7	0	39.712	40.545
7	7	1	5.340	5.148
7	7	2	2.356	1.048
7	7	3	1.257	.061
7	7	4	19.267	19.309
7	9	-6	18.743	18.577
7	9	-5	10.105	10.921
7	9	-4	10.995	10.985
7	9	-3	34.634	34.495
7	9	-2	32.461	32.169
7	9	-1	45.838	45.784
7	9	0	20.000	19.870
7	9	1	27.644	27.815
7	9	2	34.319	34.185
7	9	3	18.508	18.604
7	11	-4	17.120	17.042
7	11	-3	9.503	9.724
7	11	-2	38.298	38.189
7	11	-1	11.283	10.754
7	11	0	22.225	22.486
7	11	1	19.607	19.917
7	11	2	26.335	26.402
8	0	-8	7.408	7.752
8	0	-6	29.895	29.748
8	0	-4	11.649	11.465
8	0	-2	21.885	21.777
8	0	0	57.827	60.069
8	0	2	26.754	26.699
8	0	4	35.105	35.153
8	2	-8	1.335	.171
8	2	-7	45.262	45.675
8	2	-6	16.545	16.185
8	2	-5	65.916	65.770
8	2	-4	12.277	12.914
8	2	-3	66.099	65.845
8	2	-2	23.534	22.350
8	2	-1	42.199	41.445
8	2	0	11.623	11.078
8	2	1	45.105	44.720
8	2	2	32.723	32.720
8	2	3	34.058	33.752

h	k	l	f(obs)	f(calc)
8	2	4	10.131	10.113
8	2	5	14.293	14.028
8	4	-7	26.073	25.858
8	4	-6	5.183	5.789
8	4	-5	34.660	34.190
8	4	-4	18.298	17.736
8	4	-3	26.728	26.966
8	4	-2	2.147	2.154
8	4	-1	4.293	4.700
8	4	0	15.393	15.266
8	4	1	6.963	6.661
8	4	2	3.455	3.451
8	4	3	4.084	3.919
8	4	4	6.204	6.323
8	4	5	2.749	3.704
8	6	-7	5.681	4.824
8	6	-6	28.901	29.213
8	6	-5	10.969	11.095
8	6	-4	32.356	33.240
8	6	-3	2.906	1.966
8	6	-2	5.524	5.417
8	6	-1	7.304	7.350
8	6	0	10.497	10.375
8	6	1	10.759	10.684
8	6	2	13.482	13.032
8	6	3	6.806	7.484
8	6	4	5.052	4.578
8	8	-6	8.325	8.266
8	8	-5	49.267	50.162
8	8	-4	3.796	3.199
8	8	-3	39.738	39.589
8	8	-2	15.550	15.673
8	8	-1	39.529	39.987
8	8	0	2.958	2.893
8	8	1	27.984	28.053
8	8	2	1.073	.623
8	8	3	31.859	31.164
8	10	-5	27.618	27.627
8	10	-4	3.639	2.824
8	10	-3	8.482	8.423
8	10	-2	2.435	1.507
8	10	-1	4.110	4.871
8	10	0	9.869	9.904
8	10	1	2.094	2.072
8	10	2	5.314	5.681
9	-11	-3	6.361	6.269
9	1	-7	11.335	11.068
9	1	-6	3.377	3.310
9	1	-5	2.853	2.323
9	1	-4	7.173	6.749
9	1	-3	1.545	1.250
9	1	-2	17.827	17.754
9	1	-1	5.236	4.718
9	1	0	4.319	4.513
9	1	1	15.105	14.863
9	1	2	24.005	24.188
9	1	3	26.832	26.899
9	1	4	21.126	21.055
9	1	5	20.079	19.956
9	3	-7	15.079	14.883
9	3	-6	1.073	.268
9	3	-5	53.325	53.603
9	3	-4	17.120	17.641
9	3	-3	65.812	65.789
9	3	-2	7.958	7.838
9	3	-1	55.942	56.011
9	3	0	23.272	23.515
9	3	1	44.738	44.597
9	3	2	7.723	7.646
9	3	3	52.723	52.665
9	3	4	12.487	12.004
9	5	-7	8.901	8.746
9	5	-6	25.209	25.134
9	5	-5	4.895	4.665
9	5	-4	2.984	2.489
9	5	-3	1.990	1.380
9	5	-2	18.639	18.388
9	5	-1	2.775	2.907
9	5	0	6.728	6.372
9	5	1	4.162	3.861
9	5	2	1.335	.200
9	5	3	23.246	22.688
9	5	4	15.838	15.702
9	7	-6	3.351	2.245
9	7	-5	10.838	11.260
9	7	-4	25.916	26.503
9	7	-3	32.068	32.371
9	7	-2	9.581	9.506
9	7	-1	30.550	30.702
9	7	0	10.995	10.820
9	7	1	46.257	46.705
9	7	2	11.649	11.415
9	7	3	39.843	39.833
9	9	-5	14.005	14.152
9	9	-4	2.670	2.036
9	9	-3	29.162	29.199
9	9	-2	12.408	12.460
9	9	-1	8.796	8.244
9	9	0	6.387	7.054
9	9	1	15.602	15.708
9	9	2	8.534	8.659
9	11	-2	6.414	6.499
9	11	-1	9.241	9.006
9	11	0	4.398	3.072
10	0	-6	66.073	67.058
10	0	-4	34.843	34.081

h	k	l	f(obs)	f(calc)
10	0	-2	68.508	68.198
10	0	0	54.555	54.025
10	0	2	65.026	65.418
10	0	4	17.539	17.550
10	2	-7	14.869	15.250
10	2	-6	26.230	26.129
10	2	-5	10.864	10.561
10	2	-4	2.199	1.867
10	2	-3	2.696	1.284
10	2	-2	35.000	34.867
10	2	-1	11.990	11.687
10	2	0	11.230	10.949
10	2	1	12.487	12.431
10	2	2	22.147	22.304
10	2	3	5.681	5.247
10	2	4	14.921	14.713
10	4	-7	22.565	23.340
10	4	-6	21.440	21.434
10	4	-5	19.581	19.470
10	4	-4	49.581	50.088
10	4	-3	11.021	11.068
10	4	-2	30.602	30.320
10	4	-1	25.340	24.925
10	4	0	53.403	53.867
10	4	1	27.277	27.370
10	4	2	15.209	14.641
10	4	3	10.812	10.943
10	4	4	14.267	13.751
10	6	-6	24.634	24.501
10	6	-5	10.995	11.616
10	6	-4	32.539	32.754
10	6	-3	15.236	15.262
10	6	-2	14.110	13.587
10	6	-1	8.848	9.246
10	6	0	46.230	46.438
10	6	1	8.560	8.106
10	6	2	20.340	19.728
10	6	3	7.173	6.874
10	8	-5	9.241	10.105
10	8	-4	15.733	15.883
10	8	-3	9.162	9.343
10	8	-2	3.979	4.443
10	8	-1	11.728	11.631
10	8	0	28.089	28.274
10	8	1	12.723	12.176
10	8	2	6.806	6.243
10	10	-3	4.843	4.790
10	10	-2	49.921	50.181
10	10	-1	1.754	.863
10	10	0	33.796	34.003
11	1	-7	8.901	8.973
11	1	-6	2.016	.630
11	1	-5	3.927	3.615
11	1	-4	10.681	10.239
11	1	-3	1.859	.266
11	1	-2	6.728	6.635
11	1	-1	15.105	14.973
11	1	0	34.005	33.686
11	1	1	26.257	26.286
11	1	2	25.471	25.020
11	1	3	22.801	22.220
11	3	-7	14.948	14.879
11	3	-6	2.670	.520
11	3	-5	20.079	19.668
11	3	-4	13.298	12.978
11	3	-3	39.293	39.354
11	3	-2	4.188	4.107
11	3	-1	27.670	27.290
11	3	0	14.267	14.274
11	3	1	4.843	4.791
11	3	2	3.796	3.030
11	3	3	4.398	3.879
11	5	-6	18.848	18.215
11	5	-5	1.911	1.609
11	5	-4	8.743	8.919
11	5	-3	7.853	8.115
11	5	-2	30.471	30.366
11	5	-1	6.126	5.997
11	5	0	34.293	34.075
11	5	1	12.618	12.391
11	5	2	55.105	54.248
11	5	3	12.173	11.665
11	7	-5	21.126	21.900
11	7	-4	11.073	11.294
11	7	-3	12.199	11.993
11	7	-2	3.272	3.775
11	7	-1	7.042	7.448
11	7	0	1.152	2.000
11	7	1	8.010	7.991
11	7	2	18.665	18.215
11	9	-3	8.927	8.396
11	9	-2	2.513	1.716
11	9	-1	8.927	8.641
11	9	0	9.869	9.566
12	0	-6	12.147	11.201
12	0	-4	4.346	4.783
12	0	-2	21.649	21.550
12	0	0	17.173	16.732
12	0	2	2.435	2.453
12	2	-6	13.953	14.438
12	2	-5	35.785	35.778
12	2	-4	16.178	16.203
12	2	-3	52.984	53.357
12	2	-2	25.393	25.439
12	2	-1	62.749	62.726
12	2	0	12.801	12.728

h	k	l	f(obs)	f(calc)
12	2	1	39.948	39.612
12	2	2	1.178	1.084
12	4	-6	9.686	9.928
12	4	-5	11.702	11.789
12	4	-4	18.272	18.889
12	4	-3	23.665	23.345
12	4	-2	18.351	18.389
12	4	-1	36.545	36.281
12	4	0	12.565	12.667
12	4	1	15.471	14.978
12	4	2	2.042	.160
12	6	-5	2.723	1.045
12	6	-4	9.293	9.533
12	6	-3	8.455	8.329
12	6	-2	25.366	25.443
12	6	-1	2.016	1.398
12	6	0	27.147	26.355
12	6	1	11.649	11.079
12	8	-3	46.178	46.991
12	8	-2	1.204	.453
12	8	-1	40.288	40.679
12	8	0	5.314	4.816
13	1	-6	36.309	37.134
13	1	-5	8.325	8.795
13	1	-4	22.644	22.057
13	1	-3	2.356	1.279
13	1	-2	23.220	23.143
13	1	-1	5.681	5.507
13	1	0	7.775	7.543
13	1	1	2.827	2.182
13	1	2	12.277	12.621
13	3	-6	7.147	7.295
13	3	-5	21.099	20.744
13	3	-4	9.398	9.063
13	3	-3	6.806	6.386
13	3	-2	9.110	9.287
13	3	-1	15.733	14.941
13	3	0	5.471	5.878
13	3	1	22.277	21.594
13	5	-5	3.429	3.107
13	5	-4	44.764	45.265
13	5	-3	6.859	6.911
13	5	-2	15.183	15.129
13	5	-1	9.817	9.607
13	5	0	19.921	20.009
13	5	1	5.916	6.005
13	7	-3	6.754	6.544
13	7	-2	2.644	2.814
13	7	-1	17.932	17.563
14	0	-4	58.822	58.956
14	0	-2	43.639	43.418
14	0	0	49.581	49.239
14	2	-5	2.277	3.784
14	2	-4	15.026	15.252
14	2	-3	10.262	9.606
14	2	-2	7.906	7.783
14	2	-1	1.597	1.906
14	2	0	4.921	3.922
14	4	-4	8.613	8.654
14	4	-3	20.707	20.510
14	4	-2	23.665	23.324
14	4	-1	13.665	13.313
14	4	0	3.613	3.766
15	1	-4	7.723	8.021
15	1	-3	7.173	6.832
15	1	-2	1.178	.076