

AM-86-323

Crystal structure of the zeolite mineral goosecreekite, $\text{CaAl}_2\text{Si}_6\text{O}_{16} \cdot 5\text{H}_2\text{O}$

Rouse and Peacor

To be deposited: Table 1

American Mineralogist, 71, 11-12, 1494-1501

TABLE 1. OBSERVED AND CALCULATED STRUCTURE FACTORS FOR GOOSECREEKITE

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
7	0	-7	4.8	1.3	1.348	0.0
8	0	-7	7.8	7.3	7.285	0.0
7	1	-7	3.2 *	3.4	-3.020	1.499
8	1	-7	14.7	14.4	11.159	-9.050
7	2	-7	17.7	17.6	14.749	9.674
8	2	-7	8.4	6.8	5.874	3.348
7	3	-7	26.7	25.2	21.519	-13.067
8	3	-7	22.6	21.9	15.281	-15.686
7	4	-7	21.0	19.8	-6.925	-18.567
7	5	-7	25.7	26.1	7.790	-24.921
7	6	-7	25.0	23.5	10.028	-21.270
7	7	-7	15.9	14.0	1.262	13.920
7	8	-7	19.8	18.0	12.402	-13.025
6	0	-6	9.5	9.5	9.486	0.0
7	0	-6	3.0 *	5.7	-5.736	0.0
8	0	-6	7.3	8.9	8.941	0.0
6	1	-6	16.9	17.0	12.122	-11.863
7	1	-6	18.2	18.1	17.923	-2.521
8	1	-6	15.9	13.7	4.672	12.893
6	2	-6	14.8	13.0	-12.782	2.345
7	2	-6	10.0	11.0	-1.513	-10.930
8	2	-6	15.8	14.7	-2.895	-14.446
6	3	-6	31.8	33.7	-2.017	-33.598
7	3	-6	33.1	30.7	29.032	9.959
8	3	-6	13.2	14.5	14.355	1.984
6	4	-6	24.5	23.7	16.651	-16.872
7	4	-6	18.3	19.1	14.318	-12.589
8	4	-6	20.8	19.4	19.110	-3.252
6	5	-6	17.3	17.1	7.532	-15.378
7	5	-6	10.0	8.3	-8.104	1.941
8	5	-6	7.3	5.8	-3.566	-4.628
6	6	-6	22.7	24.3	-1.120	-24.319
7	6	-6	3.1 *	1.3	0.487	1.151
8	6	-6	16.5	15.8	-5.175	-14.927
6	7	-6	28.0	26.7	-21.388	-15.959
7	7	-6	3.0 *	4.5	-3.116	3.237
8	7	-6	20.0	18.3	-1.310	18.301
6	8	-6	7.9	8.9	7.474	-4.868
7	8	-6	8.7	5.8	1.642	5.527
6	9	-6	17.4	18.2	-17.501	4.832
7	9	-6	15.9	14.8	14.327	3.569
6	10	-6	10.6	12.7	2.386	12.514
7	10	-6	18.9	16.7	9.411	13.840
6	11	-6	13.6	14.3	-8.799	-11.219
7	11	-6	21.0	21.5	11.015	18.490
6	12	-6	19.4	18.0	8.831	15.656
6	13	-6	8.7	7.7	7.055	3.119
5	0	-5	35.1	33.5	-33.545	0.0
6	0	-5	2.9 *	5.9	-5.902	0.0
7	0	-5	32.7	31.0	-30.951	0.0
8	0	-5	22.7	21.6	-21.616	0.0
9	0	-5	4.7	3.1	3.138	0.0
5	1	-5	38.0	37.2	-23.323	-28.937

TABLE 1. OBSERVED AND CALCULATED STRUCTURE FACTORS FOR GOOSECREEKITE

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
6	1	-5	10.6	10.9	6.116	8.973
7	1	-5	15.5	13.2	-11.773	5.960
8	1	-5	9.4	8.9	-8.622	-2.043
9	1	-5	20.9	19.9	12.005	-15.860
5	2	-5	29.8	29.5	12.011	-26.923
6	2	-5	11.7	10.6	8.333	-6.610
7	2	-5	2.8 *	1.5	1.337	0.753
8	2	-5	14.7	14.9	-14.827	1.835
9	2	-5	7.4	4.7	-1.779	4.340
5	3	-5	17.4	17.5	-7.695	15.732
6	3	-5	31.6	33.0	-18.964	26.986
7	3	-5	27.3	28.0	-26.951	-7.487
8	3	-5	9.8	11.2	9.004	-6.674
9	3	-5	3.5 *	2.9	2.552	-1.447
5	4	-5	15.3	16.5	-15.617	5.195
6	4	-5	15.1	14.4	14.338	0.679
7	4	-5	13.8	10.2	-6.318	-7.985
8	4	-5	13.8	12.0	-11.170	-4.397
9	4	-5	5.5	5.5	5.529	0.020
5	5	-5	24.8	24.4	-24.248	2.894
6	5	-5	22.3	23.5	-4.439	23.091
7	5	-5	7.8	9.7	8.427	-4.709
8	5	-5	5.9	3.4	2.695	-2.085
5	6	-5	23.6	22.9	0.127	22.944
6	6	-5	40.7	40.7	33.077	-23.655
7	6	-5	16.8	17.5	16.983	-4.414
8	6	-5	13.3	10.3	5.567	-8.625
5	7	-5	20.6	20.6	6.683	-19.437
6	7	-5	18.9	17.2	4.288	-16.623
7	7	-5	4.7	6.3	-1.298	6.115
8	7	-5	14.2	12.8	10.609	7.091
5	8	-5	28.9	31.3	-22.180	22.079
6	8	-5	13.9	13.3	8.072	10.564
7	8	-5	22.2	20.4	-13.027	-15.699
8	8	-5	23.6	22.2	-20.813	-7.721
5	9	-5	44.0	43.2	7.784	-42.497
6	9	-5	25.9	27.2	10.400	-25.088
7	9	-5	19.3	19.3	-17.121	8.945
8	9	-5	7.0	6.2	5.279	3.217
5	10	-5	26.7	28.9	21.372	19.423
6	10	-5	8.8	8.8	8.078	-3.391
7	10	-5	25.8	25.6	14.577	21.056
8	10	-5	19.3	19.1	5.202	18.346
5	11	-5	7.6	8.5	7.863	3.296
6	11	-5	13.1	13.9	12.678	-5.642
7	11	-5	34.9	33.3	-30.076	-14.337
5	12	-5	14.7	16.6	16.130	-3.891
6	12	-5	12.6	13.1	10.128	-8.367
7	12	-5	7.8	6.4	2.505	-5.883
5	13	-5	2.9 *	1.6	-1.595	0.246
6	13	-5	14.9	13.6	-2.755	13.271
5	14	-5	13.1	14.5	6.018	13.187
6	14	-5	6.4	4.5	4.158	1.723

TABLE 1. OBSERVED AND CALCULATED STRUCTURE FACTORS FOR GOOSECREEKITE

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
5	15	-5	12.6	10.2	10.002	-1.729
6	15	-5	13.9	11.2	9.707	5.540
5	16	-5	3.3 *	6.4	4.015	-5.000
5	17	-5	26.2	24.6	20.483	-13.658
4	0	-4	41.1	41.7	41.653	0.0
5	0	-4	15.6	16.1	16.123	0.0
6	0	-4	27.9	28.3	-28.312	0.0
7	0	-4	6.8	4.4	4.433	0.0
8	0	-4	14.2	15.7	-15.740	0.0
9	0	-4	20.3	20.5	-20.489	0.0
4	1	-4	19.3	19.3	13.649	-13.617
5	1	-4	46.0	45.9	-43.649	14.094
6	1	-4	32.9	32.2	-31.253	7.660
7	1	-4	12.7	12.5	6.167	-10.925
8	1	-4	18.0	15.1	-8.514	-12.491
9	1	-4	16.3	13.8	-12.373	6.117
4	2	-4	9.0	9.5	5.494	-7.743
5	2	-4	26.7	26.4	24.098	10.664
6	2	-4	45.0	45.0	-43.246	12.620
7	2	-4	33.0	33.0	-21.614	24.949
8	2	-4	18.0	16.6	6.842	15.156
9	2	-4	17.0	14.6	-14.182	-3.308
4	3	-4	40.7	45.5	-6.634	45.046
5	3	-4	46.9	51.6	-49.451	-14.694
6	3	-4	21.5	20.7	-10.096	18.016
7	3	-4	20.3	20.0	-14.035	14.188
9	3	-4	8.7	6.3	-4.382	-4.582
4	4	-4	30.6	31.7	28.927	12.845
5	4	-4	21.7	22.9	18.600	-13.409
6	4	-4	17.5	16.1	13.070	9.336
7	4	-4	5.1	6.3	6.243	0.817
8	4	-4	10.8	9.4	7.475	5.676
9	4	-4	33.7	30.9	28.981	10.770
4	5	-4	24.4	23.8	0.487	23.767
5	5	-4	17.1	16.7	11.500	12.162
6	5	-4	5.6	7.7	1.948	7.501
7	5	-4	28.7	29.6	-8.140	28.413
8	5	-4	26.5	25.2	-19.381	-16.140
9	5	-4	13.0	13.8	-3.952	-13.197
4	6	-4	35.7	35.3	-30.387	17.882
5	6	-4	20.4	21.5	3.682	21.155
6	6	-4	31.9	33.3	-24.381	23.651
7	6	-4	27.0	27.0	-8.734	-25.555
8	6	-4	14.6	15.1	6.274	-13.747
9	6	-4	8.9	6.5	2.337	-6.072
4	7	-4	43.7	43.8	5.689	-43.429
5	7	-4	29.2	29.9	28.553	8.820
6	7	-4	29.4	29.4	23.842	17.226
7	7	-4	23.3	21.8	4.024	-21.381
8	7	-4	10.5	12.4	-0.099	-12.370
9	7	-4	16.8	16.2	5.243	15.312
4	8	-4	32.3	32.1	28.861	13.987
5	8	-4	17.2	18.2	14.967	-10.382

TABLE 1. OBSERVED AND CALCULATED STRUCTURE FACTORS FOR GOOSECREEKITE

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
6	8	-4	17.7	18.8	2.031	18.701
7	8	-4	8.3	11.0	10.039	-4.460
8	8	-4	15.3	13.1	5.609	-11.829
4	9	-4	52.0	54.4	44.662	-31.097
5	9	-4	22.2	21.4	-20.916	-4.753
6	9	-4	8.0	7.0	-3.117	-6.281
7	9	-4	28.6	28.7	20.996	-19.606
8	9	-4	22.4	19.8	-4.274	-19.313
4	10	-4	30.2	31.3	-6.654	-30.566
5	10	-4	11.0	10.7	-1.818	-10.589
6	10	-4	11.2	11.9	-11.262	-3.731
7	10	-4	25.5	25.1	-24.976	-2.696
8	10	-4	8.6	8.4	-7.688	3.418
4	11	-4	24.5	24.3	8.997	-22.543
5	11	-4	28.8	29.5	-24.787	-15.984
6	11	-4	22.2	22.4	-19.963	10.138
7	11	-4	16.3	16.7	13.637	-9.580
8	11	-4	3.5 *	8.2	4.127	-7.046
4	12	-4	2.8 *	1.5	-1.417	-0.577
5	12	-4	10.1	10.1	1.951	-9.881
6	12	-4	25.1	24.8	8.315	23.350
7	12	-4	10.8	9.9	-7.825	6.061
4	13	-4	16.3	14.9	-3.595	14.418
5	13	-4	10.2	11.3	1.203	11.199
6	13	-4	2.9 *	3.9	-3.709	1.108
7	13	-4	15.4	14.7	-10.920	9.872
4	14	-4	19.3	20.9	-7.884	-19.313
5	14	-4	3.0 *	6.1	-4.317	-4.319
6	14	-4	14.4	12.8	8.748	-9.395
7	14	-4	19.0	19.0	-0.348	-19.015
4	15	-4	26.6	26.0	14.276	-21.681
5	15	-4	31.6	31.4	6.630	30.661
6	15	-4	22.1	23.2	12.497	19.582
4	16	-4	19.5	18.9	13.384	13.310
5	16	-4	16.0	14.7	8.427	12.040
6	16	-4	12.7	12.5	-0.699	12.524
4	17	-4	12.8	11.4	11.278	-1.884
5	17	-4	7.7	7.1	3.742	6.013
4	18	-4	20.4	20.7	20.626	1.719
5	18	-4	3.2 *	5.0	4.825	1.368
4	19	-4	12.8	12.1	10.204	-6.517
3	0	-3	21.8	21.7	-21.705	0.0
4	0	-3	11.1	9.5	-9.473	0.0
5	0	-3	2.4 *	2.7	-2.662	0.0
6	0	-3	6.0	8.3	8.252	0.0
7	0	-3	12.7	12.7	-12.709	0.0
8	0	-3	2.9 *	0.4	0.399	0.0
9	0	-3	15.4	12.7	12.681	0.0
3	1	-3	49.2	48.1	-37.489	-30.166
4	1	-3	17.0	17.7	-0.599	17.659
5	1	-3	39.4	42.4	40.109	13.628
6	1	-3	14.6	14.0	-7.352	-11.911
7	1	-3	7.5	6.1	-0.479	6.109

TABLE 1. OBSERVED AND CALCULATED STRUCTURE FACTORS FOR GOOSECREEKITE

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
8	1	-3	29.1	28.2	15.229	23.696
9	1	-3	9.3	10.6	-4.638	9.555
3	2	-3	16.6	16.1	8.742	13.504
4	2	-3	26.5	27.6	-24.219	-13.140
5	2	-3	39.7	40.6	35.683	19.336
6	2	-3	45.2	43.0	39.501	16.901
7	2	-3	3.0 *	6.4	-4.006	-5.050
8	2	-3	21.3	21.3	21.220	-1.236
9	2	-3	16.3	13.8	6.436	12.167
3	3	-3	19.1	20.0	-11.186	-16.546
4	3	-3	34.8	33.0	22.723	-23.884
5	3	-3	34.4	34.8	9.571	33.470
6	3	-3	22.1	22.3	-14.600	-16.872
7	3	-3	10.2	10.6	-6.025	-8.756
8	3	-3	9.1	9.1	-5.679	7.133
9	3	-3	8.8	8.7	-5.117	7.053
3	4	-3	24.2	22.5	22.430	-1.455
4	4	-3	38.8	39.2	33.182	20.900
5	4	-3	43.9	45.1	-43.837	10.423
6	4	-3	33.3	33.3	-32.703	6.353
7	4	-3	26.0	26.8	16.227	21.371
8	4	-3	13.8	14.9	-8.388	-12.293
9	4	-3	31.3	30.1	-23.737	-18.481
3	5	-3	49.2	49.6	-12.886	-47.888
4	5	-3	25.3	26.4	24.931	-8.810
5	5	-3	35.2	36.7	14.844	33.599
6	5	-3	32.4	33.1	-18.698	-27.319
7	5	-3	10.1	10.0	-0.280	-9.956
8	5	-3	24.5	21.9	8.213	20.269
9	5	-3	11.8	10.6	-10.513	1.013
3	6	-3	84.9	85.8	80.303	30.320
4	6	-3	24.8	26.8	25.480	8.165
5	6	-3	24.1	24.6	3.173	-24.397
6	6	-3	5.9	6.3	-6.257	0.482
7	6	-3	31.8	31.0	-0.826	30.959
8	6	-3	16.8	15.4	9.026	12.509
9	6	-3	17.5	15.4	2.508	-15.227
3	7	-3	25.7	26.1	13.900	22.114
4	7	-3	25.7	25.2	8.181	23.882
5	7	-3	4.8	2.6	2.629	-0.297
6	7	-3	14.8	15.0	-10.595	10.639
7	7	-3	10.2	10.8	-1.100	-10.776
8	7	-3	18.8	17.3	-9.046	-14.779
9	7	-3	10.0	10.3	-9.881	-2.736
3	8	-3	43.1	42.2	-15.081	-39.451
4	8	-3	8.3	8.4	-7.084	4.461
5	8	-3	16.8	18.9	-13.284	-13.382
6	8	-3	23.4	24.2	-19.307	-14.521
7	8	-3	21.8	20.5	-17.115	11.221
8	8	-3	7.4	7.2	1.878	-6.995
9	8	-3	10.3	11.2	6.390	-9.204
3	9	-3	4.5	0.6	-0.604	0.115
4	9	-3	47.2	46.3	-32.564	32.912

TABLE 1. OBSERVED AND CALCULATED STRUCTURE FACTORS FOR GOOSECREEKITE

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
5	9	-3	42.0	43.1	35.896	23.780
6	9	-3	12.3	13.4	-5.965	-12.000
7	9	-3	6.5	5.1	4.152	-2.989
8	9	-3	3.3*	5.9	5.834	0.537
3	10	-3	24.6	25.1	25.029	1.805
4	10	-3	25.2	25.6	24.521	-7.242
5	10	-3	16.0	16.2	-8.868	13.531
6	10	-3	10.0	12.9	-12.898	-0.965
7	10	-3	20.2	19.3	4.841	-18.671
8	10	-3	22.7	20.4	17.473	10.444
3	11	-3	24.8	24.2	-22.866	7.844
4	11	-3	26.2	29.1	-22.363	18.680
5	11	-3	14.2	15.0	12.225	8.751
6	11	-3	14.7	14.2	8.464	11.421
7	11	-3	18.7	15.2	1.630	-15.067
8	11	-3	11.5	8.1	2.510	-7.653
3	12	-3	37.6	38.8	-11.700	-36.971
4	12	-3	8.3	8.6	-1.358	8.457
5	12	-3	28.2	28.1	-24.137	-14.357
6	12	-3	37.3	36.2	-20.696	-29.710
7	12	-3	12.0	11.1	9.551	5.688
8	12	-3	6.0	2.8	2.641	-0.967
3	13	-3	27.2	27.9	-0.551	-27.882
4	13	-3	4.8	2.7	2.570	0.876
5	13	-3	11.8	10.3	-7.592	6.902
6	13	-3	12.6	11.8	9.064	-7.499
7	13	-3	21.7	21.8	20.619	-7.158
3	14	-3	24.4	24.2	12.694	20.578
4	14	-3	23.6	23.3	14.486	18.216
5	14	-3	7.7	9.2	-8.672	-3.102
6	14	-3	10.6	9.6	-7.306	-6.165
7	14	-3	22.9	21.3	12.652	17.137
3	15	-3	9.2	8.9	-7.960	3.873
4	15	-3	15.7	15.5	-13.351	7.833
5	15	-3	34.3	34.5	-3.107	-34.388
6	15	-3	11.3	12.6	-7.086	-10.435
7	15	-3	13.4	13.0	8.496	-9.849
3	16	-3	6.4	8.3	-1.484	-8.200
4	16	-3	7.1	6.9	-6.372	2.604
5	16	-3	22.0	22.1	12.932	-17.880
6	16	-3	15.7	17.3	5.382	-16.411
3	17	-3	5.2	7.5	-5.130	5.456
4	17	-3	14.1	13.0	-12.769	2.161
5	17	-3	6.1	4.2	-3.773	1.887
6	17	-3	7.6	6.1	5.857	-1.673
3	18	-3	8.9	8.8	-8.610	1.925
4	18	-3	17.5	17.9	17.481	-4.043
5	18	-3	5.6	7.5	-1.953	7.291
3	19	-3	11.1	7.3	7.206	-1.032
4	19	-3	7.5	8.3	5.961	-5.721
2	0	-2	71.0	68.5	-68.452	0.0
3	0	-2	19.2	19.8	-19.767	0.0
4	0	-2	61.2	62.8	62.818	0.0

TABLE 1. OBSERVED AND CALCULATED STRUCTURE FACTORS FOR GOOSECREEKITE

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
5	0	-2	18.0	19.1	-19.118	0.0
6	0	-2	63.4	65.4	65.413	0.0
7	0	-2	81.8	84.5	84.487	0.0
8	0	-2	23.8	22.9	22.890	0.0
9	0	-2	17.1	15.0	-15.033	0.0
2	1	-2	22.7	21.7	2.648	21.541
3	1	-2	16.6	19.1	6.505	17.939
4	1	-2	15.5	17.0	-9.853	-13.872
5	1	-2	33.4	32.7	26.652	-18.979
6	1	-2	13.5	13.0	11.072	6.817
7	1	-2	24.2	23.9	-19.092	14.443
8	1	-2	4.4	5.4	-1.133	5.276
9	1	-2	3.0 *	1.6	0.299	1.560
2	2	-2	53.4	53.1	-50.552	-16.279
3	2	-2	28.6	29.7	8.713	28.381
4	2	-2	25.7	26.9	-24.922	10.061
5	2	-2	47.5	48.4	-43.791	-20.684
6	2	-2	27.8	27.8	20.832	-18.480
7	2	-2	19.6	18.0	18.024	-0.441
8	2	-2	20.1	18.3	-10.264	-15.135
9	2	-2	27.7	23.1	-3.178	-22.858
2	3	-2	37.4	38.8	-15.555	-35.503
3	3	-2	31.6	29.9	-29.901	1.189
4	3	-2	44.4	45.4	44.674	7.928
5	3	-2	56.7	57.4	33.320	-46.741
6	3	-2	49.0	49.7	49.561	-3.104
7	3	-2	18.8	18.8	18.795	-0.956
8	3	-2	22.3	20.8	-12.946	16.245
9	3	-2	28.2	25.0	7.149	23.913
2	4	-2	62.6	64.7	50.814	40.129
3	4	-2	10.8	11.3	-4.010	-10.560
4	4	-2	2.1 *	1.2	0.162	-1.149
5	4	-2	39.9	41.7	33.643	24.701
6	4	-2	17.1	18.9	7.657	-17.251
7	4	-2	11.8	11.2	-7.460	8.320
8	4	-2	20.7	21.3	-14.167	15.897
9	4	-2	5.1	5.9	-5.541	-2.029
2	5	-2	61.1	60.3	40.861	-44.404
3	5	-2	5.6	6.0	3.591	-4.792
4	5	-2	49.4	51.1	-45.112	-24.108
5	5	-2	26.1	26.6	14.069	-22.526
6	5	-2	24.9	24.8	19.777	-15.013
7	5	-2	22.4	23.3	-16.781	-16.126
8	5	-2	9.6	10.0	-8.533	5.184
9	5	-2	12.6	8.1	-5.618	5.872
2	6	-2	36.7	36.2	1.844	-36.137
3	6	-2	56.3	57.6	17.810	-54.800
4	6	-2	60.5	63.2	-9.229	-62.557
5	6	-2	43.9	42.8	-37.584	20.529
6	6	-2	14.4	15.1	-8.954	12.122
7	6	-2	14.5	17.1	-15.031	-8.077
8	6	-2	27.9	28.5	-23.647	15.969
9	6	-2	25.9	23.2	-8.475	21.645

TABLE 1. OBSERVED AND CALCULATED STRUCTURE FACTORS FOR GOOSECREEKITE

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
2	7	-2	25.6	26.7	-13.866	-22.854
3	7	-2	27.0	28.1	-19.850	19.848
4	7	-2	21.1	21.0	-16.383	13.114
5	7	-2	25.9	26.6	-25.955	-5.706
6	7	-2	7.8	6.7	-4.737	4.748
7	7	-2	19.9	19.1	-2.826	18.892
8	7	-2	6.2	7.8	-6.226	4.636
2	8	-2	39.3	40.5	33.846	22.208
3	8	-2	33.6	35.0	31.809	-14.700
4	8	-2	7.7	7.3	4.204	5.982
5	8	-2	22.2	22.2	-21.321	6.133
6	8	-2	5.2	8.2	-5.675	-5.978
7	8	-2	30.1	28.8	21.322	19.349
8	8	-2	29.9	29.6	-1.005	29.626
2	9	-2	37.7	38.5	-28.916	25.469
3	9	-2	41.4	43.7	-0.121	43.713
4	9	-2	35.1	36.4	-8.376	35.433
5	9	-2	36.1	36.2	-20.247	29.991
6	9	-2	18.8	19.0	12.935	13.939
7	9	-2	17.3	18.8	-18.158	5.040
8	9	-2	6.5	6.8	-2.155	-6.448
2	10	-2	6.2	9.4	-2.617	-9.019
3	10	-2	40.9	42.1	-15.721	39.091
4	10	-2	20.8	20.3	-20.258	0.348
5	10	-2	24.1	23.8	4.153	-23.411
6	10	-2	16.2	17.6	16.961	4.686
7	10	-2	4.5	3.8	-0.368	-3.792
8	10	-2	22.1	22.1	-10.278	-19.613
2	11	-2	15.5	13.7	-8.286	-10.950
3	11	-2	40.5	41.3	25.180	32.715
4	11	-2	40.5	43.4	12.157	41.689
5	11	-2	7.3	7.2	5.785	-4.266
6	11	-2	12.0	11.5	11.204	-2.741
7	11	-2	14.3	12.9	3.082	12.490
8	11	-2	11.0	11.4	7.046	-8.928
2	12	-2	101.2	104.6	55.653	88.511
3	12	-2	38.0	38.8	27.378	27.564
4	12	-2	18.5	18.7	-7.497	-17.174
5	12	-2	30.0	30.9	15.442	26.794
6	12	-2	20.0	19.9	5.879	-19.012
7	12	-2	25.0	24.4	-11.064	-21.745
8	12	-2	17.4	15.3	0.995	-15.275
2	13	-2	10.8	11.4	10.844	-3.588
3	13	-2	2.7	5.5	-0.616	5.479
4	13	-2	20.0	20.3	-5.785	-19.438
5	13	-2	13.1	12.2	-5.165	-11.068
6	13	-2	14.3	16.6	3.174	-16.287
7	13	-2	8.2	7.8	-0.056	-7.809
2	14	-2	26.1	24.3	8.444	22.795
3	14	-2	11.6	11.9	0.197	11.891
4	14	-2	30.0	30.4	-12.263	-27.847
5	14	-2	17.3	16.0	-15.994	-1.309
6	14	-2	18.2	16.0	-14.844	6.069

TABLE 1. OBSERVED AND CALCULATED STRUCTURE FACTORS FOR GOOSECREEKITE

H	K	L	F (OBS)	F (CALC)	A (CALC)	B (CALC)
7	14	-2	28.5	27.5	-3.288	-27.263
2	15	-2	14.7	15.8	14.235	-6.821
3	15	-2	23.6	25.3	-1.666	-25.265
4	15	-2	20.8	22.1	-20.618	-7.981
5	15	-2	16.3	18.3	-15.210	-10.087
6	15	-2	18.3	16.8	0.798	-16.764
7	15	-2	17.6	16.6	-1.058	16.600
3	16	-2	18.9	20.8	17.930	-10.638
4	16	-2	8.6	8.1	-8.040	0.637
5	16	-2	14.0	14.8	-8.095	12.406
6	16	-2	9.4	6.9	3.630	5.848
4	17	-2	12.3	12.9	-12.588	-2.952
5	17	-2	20.3	21.7	-20.519	-7.142
6	17	-2	16.8	16.8	-4.290	-16.199
2	18	-2	28.9	26.9	5.531	-26.354
3	18	-2	23.8	23.3	-23.307	0.431
4	18	-2	30.7	30.9	-30.865	-1.317
5	18	-2	30.6	28.3	13.827	-24.677
3	19	-2	17.4	15.9	-1.022	15.836
4	19	-2	29.4	29.9	-12.753	27.062
5	19	-2	18.6	17.0	16.734	3.247
3	20	-2	3.2 *	3.8	-3.650	1.000
3	21	-2	3.4 *	8.0	-4.227	6.746
2	0	-1	48.3	47.4	47.414	0.0
3	0	-1	36.5	37.2	-37.208	0.0
4	0	-1	130.5	134.1	-134.120	0.0
5	0	-1	20.8	21.3	21.264	0.0
6	0	-1	9.1	8.5	-8.465	0.0
7	0	-1	23.3	23.5	-23.515	0.0
8	0	-1	14.7	12.5	12.520	0.0
9	0	-1	12.9	12.1	12.125	0.0
2	1	-1	49.6	47.1	-33.423	33.117
3	1	-1	6.8	6.6	6.573	-0.867
4	1	-1	17.8	18.7	12.531	-13.862
5	1	-1	29.3	31.0	21.224	-22.574
6	1	-1	39.1	39.6	39.174	-5.450
7	1	-1	10.2	13.4	13.231	2.307
8	1	-1	6.4	6.5	-0.390	-6.533
9	1	-1	6.3	5.0	-4.627	2.019
2	2	-1	78.9	75.5	67.144	34.566
3	2	-1	54.6	52.8	-49.666	17.995
4	2	-1	14.9	17.4	6.718	-16.062
5	2	-1	38.0	36.0	31.832	16.779
6	2	-1	25.8	25.9	23.051	11.852
7	2	-1	16.5	16.4	14.436	-7.681
8	2	-1	5.9	5.0	-1.909	-4.605
9	2	-1	6.7	7.4	5.460	4.977
2	3	-1	54.8	53.5	-21.817	48.878
3	3	-1	43.1	43.0	-42.603	-6.018
4	3	-1	24.6	25.0	19.550	-15.622
5	3	-1	30.4	30.5	19.040	-23.816
6	3	-1	15.0	15.1	-8.756	-12.320
7	3	-1	19.9	22.9	19.680	11.806

TABLE 1. OBSERVED AND CALCULATED STRUCTURE FACTORS FOR GOOSECREEKITE

H	K	L	F (OBS)	F (CALC)	A (CALC)	B (CALC)
8	3	-1	16.0	14.9	-9.248	-11.738
9	3	-1	35.9	32.6	-25.332	-20.586
1	4	-1	50.4	49.1	-48.994	3.200
2	4	-1	60.9	58.4	-42.647	-39.852
3	4	-1	60.0	57.9	-18.291	-54.920
4	4	-1	62.5	62.5	-24.164	-57.679
5	4	-1	14.4	13.0	4.248	-12.270
6	4	-1	16.5	17.0	-10.780	13.195
7	4	-1	13.7	13.9	-13.744	-2.110
8	4	-1	6.1	4.0	4.004	-0.155
9	4	-1	10.3	10.4	-8.910	5.321
1	5	-1	33.8	31.5	-24.464	19.764
2	5	-1	37.5	36.5	-31.871	17.878
3	5	-1	31.7	31.1	15.955	26.716
4	5	-1	18.0	16.8	11.161	12.585
5	5	-1	35.5	36.5	18.742	-31.267
6	5	-1	31.4	31.5	23.324	21.246
7	5	-1	15.7	16.5	-5.056	15.747
8	5	-1	8.7	5.7	-1.155	-5.581
9	5	-1	22.1	17.0	16.213	-5.106
1	6	-1	60.9	59.0	45.730	37.305
2	6	-1	57.2	51.3	-51.005	5.186
3	6	-1	17.4	15.4	-14.319	-5.708
4	6	-1	26.7	26.1	7.842	24.915
5	6	-1	51.2	52.9	24.696	-46.786
6	6	-1	21.0	21.6	-8.909	19.727
7	6	-1	22.6	23.3	1.099	23.284
8	6	-1	2.7	2.8	-0.210	2.813
9	6	-1	19.7	18.7	3.755	18.315
1	7	-1	62.3	61.5	47.232	-39.402
2	7	-1	16.0	15.6	-15.549	-0.682
3	7	-1	40.2	39.3	-31.853	-23.034
4	7	-1	29.0	30.1	26.409	-14.369
5	7	-1	17.7	16.9	-6.347	15.664
6	7	-1	15.6	17.6	-12.206	12.614
7	7	-1	11.1	11.0	-7.775	7.833
8	7	-1	10.5	7.8	-1.978	-7.533
9	7	-1	11.5	9.9	-7.011	-7.018
1	8	-1	7.5	6.7	3.040	-5.944
2	8	-1	27.3	27.3	27.322	-0.703
3	8	-1	41.5	41.7	-32.950	-25.587
4	8	-1	21.2	23.0	-16.473	-16.031
5	8	-1	35.1	34.2	29.275	17.750
6	8	-1	12.6	13.6	-4.765	12.737
7	8	-1	26.1	27.5	-26.407	-7.671
8	8	-1	4.9	2.3	-0.109	-2.290
1	9	-1	37.0	35.2	32.276	-14.099
2	9	-1	50.3	51.4	-18.680	-47.876
3	9	-1	5.6	5.6	-1.813	5.307
4	9	-1	9.7	10.0	9.112	-4.027
5	9	-1	21.0	22.8	-22.586	3.266
6	9	-1	27.1	26.8	-3.579	26.549
7	9	-1	21.1	19.5	18.170	7.033

TABLE 1. OBSERVED AND CALCULATED STRUCTURE FACTORS FOR GOOSECREEKITE

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
8	9	-1	10.7	10.8	10.830	0.263
1	10	-1	25.6	27.0	17.094	20.889
2	10	-1	27.7	29.5	22.212	19.347
3	10	-1	32.0	33.6	20.663	26.537
4	10	-1	43.7	44.4	33.370	29.312
5	10	-1	2.7	3.9	2.275	3.159
6	10	-1	16.8	16.5	6.408	15.209
7	10	-1	11.8	10.8	-2.452	-10.520
8	10	-1	26.1	23.3	-4.720	-22.792
1	11	-1	18.4	19.9	19.907	0.462
2	11	-1	23.0	24.2	8.977	22.422
3	11	-1	17.7	16.7	-11.806	-11.789
4	11	-1	6.2	5.2	4.114	3.260
5	11	-1	17.9	17.3	-16.674	4.768
6	11	-1	19.6	20.2	-12.424	-15.958
7	11	-1	12.6	12.1	7.119	9.821
8	11	-1	13.6	11.7	-7.606	-8.937
2	12	-1	22.7	24.3	-16.495	17.838
3	12	-1	32.1	31.5	-4.898	31.136
4	12	-1	32.5	33.3	26.342	20.399
5	12	-1	9.4	7.9	-2.553	-7.474
6	12	-1	3.1	5.3	3.356	-4.059
7	12	-1	22.5	21.4	-9.667	-19.065
1	13	-1	41.5	42.3	40.175	-13.327
3	13	-1	27.7	28.5	6.607	27.712
4	13	-1	20.7	20.7	6.444	-19.697
5	13	-1	8.4	9.2	-7.749	-4.989
6	13	-1	26.9	26.9	-23.374	13.243
7	13	-1	8.9	9.5	-9.269	2.072
2	14	-1	52.9	54.8	25.555	-48.482
3	14	-1	34.3	36.0	8.335	34.991
4	14	-1	30.9	31.8	-7.277	30.918
5	14	-1	27.0	29.5	15.519	-25.051
6	14	-1	13.3	13.6	13.184	-3.190
7	14	-1	17.7	16.4	-9.679	13.241
1	15	-1	38.8	38.5	31.236	-22.482
2	15	-1	20.6	21.5	-3.291	21.271
4	15	-1	14.8	15.1	-0.161	-15.119
5	15	-1	14.1	13.3	-8.878	9.955
6	15	-1	25.2	23.4	-22.403	6.912
7	15	-1	22.5	19.6	-18.351	-6.866
1	16	-1	23.7	22.8	17.536	-14.514
2	16	-1	8.3	6.8	-6.566	1.771
3	16	-1	41.8	43.7	-43.615	-2.807
4	16	-1	40.6	40.7	-38.063	-14.378
5	16	-1	9.6	11.6	-11.115	3.189
6	16	-1	12.6	14.1	11.447	-8.208
3	17	-1	22.2	21.5	-15.552	14.916
4	17	-1	26.1	24.3	17.045	-17.264
5	17	-1	6.5	4.3	0.704	4.207
6	17	-1	27.5	25.9	-8.590	24.480
1	18	-1	28.0	25.3	4.319	24.974
3	18	-1	10.0	11.5	4.496	-10.577

TABLE 1. OBSERVED AND CALCULATED STRUCTURE FACTORS FOR GOOSECREEKITE

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
4	18	-1	6.4	9.7	-5.800	7.770
5	18	-1	28.4	25.6	-6.683	24.731
1	19	-1	23.1	23.1	-22.643	-4.608
2	19	-1	32.0	30.8	-18.715	24.481
4	19	-1	19.3	17.6	-2.167	-17.513
5	19	-1	15.3	17.2	5.072	-16.415
1	20	-1	20.2	15.4	10.344	-11.359
2	20	-1	26.5	24.8	-23.494	-8.085
3	20	-1	20.0	19.7	15.353	-12.310
4	20	-1	23.9	24.0	17.647	-16.338
1	21	-1	16.2	14.4	-13.934	-3.772
2	21	-1	20.2	19.5	-5.657	18.624
3	21	-1	15.9	17.3	-8.937	14.803
1	22	-1	16.8	16.3	4.105	15.775
2	22	-1	11.6	9.2	9.083	-1.319
3	0	0	42.4	41.9	41.895	0.0
4	0	0	7.1	7.1	7.104	0.0
5	0	0	59.8	62.0	-62.016	0.0
6	0	0	30.0	28.4	-28.361	0.0
7	0	0	24.3	24.4	-24.394	0.0
8	0	0	5.5	6.8	6.831	0.0
9	0	0	27.8	25.0	25.049	0.0
3	1	0	13.5	11.6	-9.326	6.890
4	1	0	47.5	48.1	-33.279	-34.736
5	1	0	12.8	13.4	-12.590	-4.717
6	1	0	4.4	6.9	-3.695	-5.877
7	1	0	2.5	2.9	0.134	-2.862
8	1	0	6.3	3.7	-2.779	-2.458
9	1	0	16.1	14.5	14.390	-1.612
3	2	0	40.5	39.8	-36.266	-16.473
4	2	0	36.5	36.5	4.515	36.173
5	2	0	34.4	34.5	-33.854	6.655
6	2	0	53.7	55.7	-54.837	9.947
7	2	0	17.1	17.2	0.448	17.174
8	2	0	10.2	11.1	5.242	9.788
9	2	0	7.2	6.0	5.767	1.768
3	3	0	30.9	28.2	8.263	27.002
4	3	0	53.2	53.2	-46.531	-25.872
5	3	0	58.1	60.8	31.907	51.788
6	3	0	13.5	13.8	9.340	-10.173
7	3	0	41.1	40.4	2.499	-40.340
8	3	0	21.7	21.7	21.100	-5.120
9	3	0	8.8	10.0	8.783	4.785
2	4	0	14.0	12.9	-3.213	12.530
3	4	0	37.3	35.3	31.251	16.505
4	4	0	9.2	8.6	-8.511	1.111
5	4	0	45.8	46.0	45.554	-6.432
6	4	0	43.1	44.2	43.628	6.960
7	4	0	9.5	6.8	-6.724	1.248
8	4	0	19.2	17.6	11.216	13.587
9	4	0	16.0	13.8	13.288	3.575
1	5	0	72.0	70.4	-32.250	62.554
2	5	0	26.6	26.0	-15.531	20.865

TABLE 1. OBSERVED AND CALCULATED STRUCTURE FACTORS FOR GOOSECREEKITE

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
3	5	0	40.3	39.8	38.905	8.592
4	5	0	25.9	24.8	12.291	21.592
5	5	0	44.8	45.9	-31.959	32.987
6	5	0	18.3	19.9	-11.613	16.122
7	5	0	25.9	27.0	9.592	-25.246
8	5	0	20.0	18.8	-7.494	-17.253
9	5	0	23.8	20.6	-19.720	5.880
0	6	0	97.8	93.6	-68.133	-64.207
1	6	0	80.4	80.8	-42.014	69.062
2	6	0	6.8	9.9	-6.416	7.531
3	6	0	71.9	73.1	-25.272	-68.579
4	6	0	36.1	35.9	21.245	-28.974
5	6	0	20.3	20.5	17.090	11.344
6	6	0	24.2	25.2	8.892	-23.579
7	6	0	4.9	2.7	-2.378	-1.172
8	6	0	2.7 *	3.0	2.382	-1.878
9	6	0	11.4	9.9	1.984	-9.685
1	7	0	35.7	33.8	-0.354	-33.760
2	7	0	30.2	32.9	31.328	10.177
3	7	0	49.6	49.7	34.701	-35.519
4	7	0	23.5	25.4	24.425	6.964
5	7	0	38.2	38.4	30.560	23.270
6	7	0	2.5 *	1.7	0.410	1.644
7	7	0	11.9	12.5	10.746	6.440
8	7	0	28.0	26.1	13.639	22.307
0	8	0	41.9	42.4	13.302	40.242
2	8	0	18.7	19.1	-10.020	16.246
3	8	0	41.1	43.1	40.641	14.325
4	8	0	20.1	18.9	14.401	12.290
5	8	0	11.0	11.0	-1.186	-10.947
6	8	0	14.3	14.1	2.983	-13.810
7	8	0	11.5	11.7	-7.996	-8.532
8	8	0	2.9 *	1.6	1.007	1.285
1	9	0	19.5	18.4	3.242	18.069
2	9	0	98.2	103.0	18.281	-101.368
3	9	0	69.9	74.8	-15.291	-73.207
4	9	0	23.7	24.1	-18.865	-14.943
5	9	0	31.8	32.8	30.131	-12.928
6	9	0	6.1	6.8	-1.919	6.527
7	9	0	28.8	27.2	-23.841	13.147
8	9	0	6.1	4.1	-4.062	-0.748
0	10	0	19.2	19.7	11.927	-15.629
1	10	0	18.0	18.7	13.890	-12.565
2	10	0	32.6	32.6	8.038	-31.554
3	10	0	17.3	17.5	-12.473	-12.272
4	10	0	41.9	44.5	-5.513	44.185
5	10	0	7.3	7.5	-1.496	7.382
6	10	0	24.6	25.6	-21.598	-13.783
7	10	0	26.6	24.7	-20.242	14.189
8	10	0	11.4	9.0	-8.699	2.457
1	11	0	18.6	18.6	-16.130	-9.330
3	11	0	38.9	39.9	-8.728	-38.946
4	11	0	40.1	41.4	-24.635	-33.254

TABLE 1. OBSERVED AND CALCULATED STRUCTURE FACTORS FOR GOOSECREEKITE

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
5	11	0	35.2	36.4	6.299	35.805
6	11	0	4.3	6.2	-2.425	5.712
7	11	0	10.0	11.0	-5.467	-9.534
8	11	0	30.1	26.6	19.810	17.745
0	12	0	73.8	74.0	-43.675	-59.789
1	12	0	16.5	13.5	7.311	-11.330
2	12	0	27.3	27.9	21.387	-17.868
3	12	0	13.7	13.6	4.753	12.702
4	12	0	31.9	33.5	30.293	14.243
5	12	0	36.3	37.3	24.245	28.408
6	12	0	16.5	15.9	-5.310	14.972
7	12	0	12.5	11.5	4.874	10.369
1	13	0	27.5	25.7	-3.581	25.475
3	13	0	19.7	19.3	11.251	15.726
4	13	0	23.9	24.2	-12.715	20.622
5	13	0	18.7	18.0	-12.788	-12.612
6	13	0	20.0	17.8	-16.260	7.239
7	13	0	17.4	16.2	-3.462	-15.853
0	14	0	53.4	54.6	3.808	-54.504
1	14	0	28.1	27.3	-27.147	2.630
2	14	0	61.1	57.6	-53.475	21.447
3	14	0	35.3	35.8	-18.128	-30.893
4	14	0	14.2	13.0	12.981	1.156
5	14	0	9.7	7.2	6.023	3.915
6	14	0	16.8	15.5	1.082	-15.431
1	15	0	23.5	20.8	16.539	12.636
2	15	0	34.0	33.6	23.468	24.051
3	15	0	35.5	35.4	31.183	16.819
4	15	0	21.5	22.8	9.550	20.757
5	15	0	3.0 *	3.6	-1.997	2.946
6	15	0	15.4	14.0	-7.958	11.487
0	16	0	40.9	41.9	27.552	31.618
1	16	0	34.1	31.8	27.709	15.581
2	16	0	21.9	21.8	-19.356	10.134
3	16	0	14.2	12.3	-4.192	11.575
4	16	0	25.0	26.8	25.781	7.405
5	16	0	15.1	12.1	-9.368	7.604
6	16	0	18.3	18.1	-17.798	3.270
1	17	0	29.5	28.2	-11.983	25.532
2	17	0	23.7	21.1	19.404	-8.390
3	17	0	6.0	8.0	5.089	-6.147
4	17	0	7.5	8.6	-1.090	8.524
5	17	0	24.0	23.4	15.970	-17.092
6	17	0	3.2 *	2.4	1.850	-1.528
0	18	0	20.6	17.7	16.436	-6.686
1	18	0	24.5	23.5	19.430	-13.148
2	18	0	18.7	17.9	-11.187	-13.978
3	18	0	12.4	10.0	-10.021	-0.265
4	18	0	8.7	9.3	-8.371	3.984
5	18	0	10.1	10.3	-6.837	-7.734
1	19	0	18.7	15.3	-7.915	13.057
2	19	0	11.8	7.7	-7.527	-1.399
3	19	0	24.4	22.6	-2.017	-22.532

TABLE 1. OBSERVED AND CALCULATED STRUCTURE FACTORS FOR GOOSECREEKITE

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
4	19	0	13.7	12.8	8.339	-9.682
5	19	0	8.4	10.0	-6.907	7.233
0	20	0	26.9	26.5	-0.936	26.448
1	20	0	24.2	22.3	21.493	5.773
2	20	0	20.0	16.4	16.415	-0.333
3	20	0	24.0	23.8	-23.771	0.287
4	20	0	14.7	12.9	10.632	7.258
1	21	0	26.8	24.8	-19.085	15.762
2	21	0	22.0	19.1	-16.640	-9.351
3	21	0	17.4	16.2	-7.444	-14.340
0	22	0	12.5	5.4	-5.145	-1.776
1	22	0	15.8	16.0	-12.588	-9.880
4	0	1	17.9	20.5	-20.484	0.0
5	0	1	47.3	47.8	-47.842	0.0
6	0	1	26.5	26.8	-26.781	0.0
7	0	1	2.5 *	2.5	2.527	0.0
8	0	1	11.1	11.7	-11.693	0.0
9	0	1	6.6	4.8	-4.752	0.0
4	1	1	26.1	27.3	23.629	13.659
5	1	1	24.1	24.8	-21.011	13.223
6	1	1	4.3	4.9	-4.457	-2.140
7	1	1	27.6	27.9	27.185	-6.435
8	1	1	7.8	7.1	4.666	5.404
9	1	1	14.0	10.8	0.088	10.784
3	2	1	43.4	40.8	-37.819	-15.411
4	2	1	17.6	16.0	14.074	7.531
5	2	1	6.1	5.6	-1.361	5.452
6	2	1	13.0	13.7	-13.736	0.576
7	2	1	4.0	6.9	6.690	1.688
8	2	1	9.5	9.4	4.752	8.121
3	3	1	27.3	28.1	7.171	27.128
4	3	1	57.2	58.0	-28.240	50.708
5	3	1	41.3	43.3	-41.511	-12.490
6	3	1	3.4	1.6	-1.590	0.001
7	3	1	8.2	5.3	0.282	5.282
8	3	1	11.5	10.7	9.166	-5.433
0	4	1	33.1	32.0	-23.072	22.141
3	4	1	50.8	50.9	46.177	21.519
4	4	1	28.9	29.2	27.410	-10.028
5	4	1	31.6	32.1	-31.950	2.936
6	4	1	8.6	8.6	5.773	6.325
7	4	1	9.6	10.2	8.040	-6.298
8	4	1	13.5	12.2	-7.530	-9.631
0	5	1	75.3	70.5	-16.869	68.423
1	5	1	30.8	31.1	30.471	6.085
2	5	1	31.7	32.4	19.188	-26.126
3	5	1	37.5	36.4	-11.558	34.523
4	5	1	42.6	45.2	0.589	45.204
5	5	1	43.3	42.4	22.310	-36.073
6	5	1	22.1	23.7	6.279	-22.824
7	5	1	12.2	11.7	7.121	9.339
8	5	1	11.9	8.4	5.094	-6.672
0	6	1	54.0	55.7	-18.585	52.549

TABLE 1. OBSERVED AND CALCULATED STRUCTURE FACTORS FOR GOOSECREEKITE

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
1	6	1	35.7	35.3	3.195	-35.184
2	6	1	58.1	58.8	26.752	52.308
3	6	1	47.9	47.9	38.146	28.960
4	6	1	54.0	54.9	42.383	-34.936
5	6	1	9.0	9.6	7.807	-5.523
6	6	1	17.8	17.7	5.077	-16.953
7	6	1	31.4	31.0	21.949	-21.843
8	6	1	12.1	11.3	10.928	2.986
0	7	1	11.3	12.2	10.074	6.801
1	7	1	51.1	48.5	-22.077	-43.136
2	7	1	16.3	14.8	12.999	-7.104
3	7	1	11.9	13.2	-4.125	-12.565
4	7	1	36.2	37.2	-24.428	-28.031
5	7	1	23.5	22.7	-5.905	21.892
6	7	1	10.4	9.7	8.744	4.085
7	7	1	33.6	31.7	-23.978	-20.666
8	7	1	24.1	19.2	-19.081	2.451
1	8	1	13.3	13.0	-12.959	-0.229
2	8	1	40.7	40.0	-26.196	-30.283
3	8	1	14.4	14.3	-9.516	10.692
4	8	1	25.6	27.9	2.047	-27.819
5	8	1	36.1	37.4	-35.615	-11.366
6	8	1	10.5	9.3	-8.812	2.915
7	8	1	16.9	16.7	14.806	-7.795
8	8	1	14.3	12.4	-2.956	-12.054
1	9	1	32.0	31.7	-27.953	14.845
2	9	1	7.7	6.1	-0.326	-6.112
3	9	1	38.8	40.3	20.672	-34.580
4	9	1	35.5	38.0	37.994	-0.649
5	9	1	16.1	17.3	-13.506	10.819
6	9	1	15.1	15.3	14.746	4.071
7	9	1	27.7	26.4	25.366	7.168
8	9	1	23.4	19.7	-4.214	19.266
0	10	1	37.9	38.1	3.698	-37.958
1	10	1	57.1	57.7	-31.686	-48.171
2	10	1	21.5	21.7	7.309	20.379
3	10	1	40.0	40.6	40.032	6.775
4	10	1	19.9	19.6	-5.500	-18.803
5	10	1	27.6	29.0	-2.736	28.859
6	10	1	10.5	9.7	-7.952	5.497
7	10	1	20.0	18.1	13.386	12.182
8	10	1	22.0	19.4	6.331	18.388
0	11	1	19.3	21.5	17.323	12.745
1	11	1	28.8	25.4	-12.805	-21.990
2	11	1	53.6	54.1	-38.340	-38.155
3	11	1	19.8	17.7	17.591	-1.954
4	11	1	8.0	7.1	2.910	-6.489
5	11	1	26.8	24.9	-21.738	-12.182
6	11	1	8.0	6.8	3.369	-5.898
7	11	1	12.1	9.7	7.427	-6.215
1	12	1	56.9	58.6	-46.833	-35.156
2	12	1	59.4	62.7	-40.961	-47.530
3	12	1	9.6	10.5	-5.152	-9.150

TABLE 1. OBSERVED AND CALCULATED STRUCTURE FACTORS FOR GOOSECREEKITE

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
4	12	1	11.7	15.4	-15.284	-2.114
5	12	1	7.2	7.3	-1.687	-7.055
6	12	1	19.8	18.7	5.960	17.716
7	12	1	12.1	11.2	4.224	10.337
0	13	1	30.5	27.6	-27.609	0.250
1	13	1	26.5	26.4	0.889	26.352
2	13	1	16.9	18.0	11.466	-13.858
3	13	1	16.6	17.3	15.848	6.890
4	13	1	34.9	36.7	-5.421	36.340
5	13	1	15.7	16.7	14.061	8.930
6	13	1	23.5	21.5	16.736	-13.517
7	13	1	18.4	16.3	-3.845	15.874
0	14	1	41.7	39.7	-6.502	39.139
1	14	1	18.8	18.6	-13.846	-12.432
2	14	1	14.9	15.8	15.557	-2.527
3	14	1	29.7	30.1	27.149	13.075
4	14	1	2.8 *	5.1	-2.951	4.178
5	14	1	20.7	20.8	1.059	20.737
6	14	1	13.7	12.8	11.060	6.460
0	15	1	36.3	37.7	-28.804	24.398
1	15	1	13.1	14.4	12.343	7.426
2	15	1	22.8	21.6	17.421	12.746
3	15	1	2.8 *	3.2	-3.189	-0.420
4	15	1	15.1	15.0	10.753	-10.496
5	15	1	15.8	14.4	12.518	7.049
6	15	1	24.1	22.3	10.817	-19.506
0	16	1	24.2	22.0	-14.706	-16.371
1	16	1	16.4	13.9	-6.664	-12.222
2	16	1	25.5	26.9	24.452	-11.157
3	16	1	6.4	7.1	4.825	5.274
4	16	1	13.6	13.8	-13.757	-0.993
5	16	1	24.9	23.8	4.151	-23.485
0	17	1	23.1	16.7	16.561	1.779
1	17	1	10.2	10.6	1.887	10.429
2	17	1	11.3	10.4	-5.921	8.560
3	17	1	27.2	27.3	19.126	-19.523
4	17	1	12.3	13.1	1.718	12.989
5	17	1	11.0	11.8	-8.880	7.844
0	18	1	35.5	33.2	33.154	-0.566
1	18	1	6.7	4.0	3.716	-1.414
2	18	1	20.8	21.2	0.100	21.187
3	18	1	14.9	13.3	12.916	3.074
4	18	1	7.5	6.7	-5.658	-3.497
5	18	1	12.1	11.7	-11.082	3.702
0	19	1	10.4	9.2	-2.736	8.742
1	19	1	15.0	13.3	4.201	-12.579
2	19	1	17.1	15.5	-5.759	-14.441
3	19	1	16.1	16.3	-12.169	10.858
4	19	1	9.3	8.6	-6.131	6.082
0	20	1	16.4	15.5	10.567	-11.315
1	20	1	21.2	21.8	-20.002	-8.613
2	20	1	7.8	7.7	-5.265	-5.624
3	20	1	3.3 *	3.8	2.967	2.405

TABLE 1. OBSERVED AND CALCULATED STRUCTURE FACTORS FOR GOOSECREEKITE

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
0	21	1	13.5	12.8	7.825	-10.071
1	21	1	11.3	4.1	0.636	-4.012
2	21	1	15.1	12.5	12.135	-3.168
3	21	1	7.7	8.5	-6.153	5.902
0	22	1	19.1	18.2	3.260	17.872
-1	0	2	47.5	47.9	-47.883	0.0
4	0	2	15.7	16.0	15.951	0.0
5	0	2	72.2	71.0	71.043	0.0
6	0	2	25.0	23.4	23.416	0.0
7	0	2	14.1	11.6	-11.604	0.0
8	0	2	8.0	8.2	-8.172	0.0
-1	1	2	70.8	66.5	58.537	31.540
4	1	2	37.9	40.1	-6.143	39.651
5	1	2	10.7	9.4	9.078	-2.547
6	1	2	29.9	30.1	-29.131	7.490
7	1	2	23.2	20.8	-15.296	14.095
8	1	2	7.3	6.7	3.974	-5.428
-1	2	2	58.4	55.6	-47.195	29.359
4	2	2	28.0	30.9	-24.023	-19.475
5	2	2	21.0	19.7	19.109	4.747
6	2	2	13.5	12.0	7.970	-8.924
7	2	2	31.7	31.4	-20.859	-23.490
8	2	2	11.0	8.3	-1.121	-8.193
-1	3	2	45.2	42.6	27.433	32.534
0	3	2	116.8	113.1	26.630	-109.963
3	3	2	26.3	33.8	6.112	-33.215
4	3	2	23.5	23.2	18.517	-13.950
5	3	2	6.9	4.9	-4.507	1.833
6	3	2	2.6 *	5.5	3.968	3.791
7	3	2	14.3	14.0	-2.629	13.760
8	3	2	16.8	12.4	5.268	11.220
-1	4	2	72.7	71.7	70.271	14.008
0	4	2	8.9	9.4	-1.871	9.177
1	4	2	35.3	34.2	24.834	-23.528
2	4	2	47.3	47.7	45.957	12.591
3	4	2	5.6	3.3	-0.252	-3.334
4	4	2	21.0	23.1	2.768	22.983
5	4	2	37.7	38.7	-19.319	-33.551
6	4	2	9.9	11.0	-2.508	-10.737
7	4	2	10.0	12.4	12.390	-0.345
8	4	2	18.5	16.4	-9.514	-13.383
-1	5	2	39.3	39.1	34.416	18.514
0	5	2	29.5	29.9	21.847	-20.387
1	5	2	41.9	41.7	-32.194	-26.574
2	5	2	32.8	33.5	-30.786	13.154
3	5	2	49.0	51.0	-31.508	-40.065
4	5	2	22.9	22.1	12.230	-18.388
5	5	2	31.4	30.9	-29.920	7.585
6	5	2	37.1	35.6	-34.035	-10.455
7	5	2	13.1	10.1	6.698	7.518
8	5	2	17.2	14.4	10.327	10.096
-1	6	2	18.3	14.8	10.024	10.881
0	6	2	59.5	53.8	0.316	53.751

TABLE 1. OBSERVED AND CALCULATED STRUCTURE FACTORS FOR GOOSECREEKITE

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
1	6	2	28.1	29.1	-29.109	-1.039
2	6	2	20.2	21.9	17.332	-13.376
3	6	2	30.3	32.5	-20.314	25.330
4	6	2	57.5	59.4	-57.457	15.148
5	6	2	17.3	18.6	-14.429	-11.676
6	6	2	2.5 *	3.0	2.242	2.067
7	6	2	13.9	12.6	-10.042	7.643
8	6	2	12.7	11.0	-2.164	-10.762
-1	7	2	17.0	17.7	-9.191	15.169
0	7	2	39.5	39.8	12.796	37.641
1	7	2	16.2	15.9	-8.306	-13.558
2	7	2	29.4	30.6	-22.486	-20.697
3	7	2	32.9	34.1	7.140	33.322
4	7	2	22.3	22.7	17.602	14.367
5	7	2	45.8	47.5	-11.213	-46.187
6	7	2	14.0	13.8	7.045	-11.917
7	7	2	27.2	25.3	18.983	16.773
8	7	2	11.8	10.5	10.134	2.591
-1	8	2	47.3	47.8	13.297	-45.948
0	8	2	20.2	21.3	-13.577	-16.418
1	8	2	47.4	47.9	31.262	36.330
2	8	2	29.7	32.5	31.636	-7.407
3	8	2	13.1	13.1	4.687	12.215
4	8	2	37.7	38.9	-16.682	35.174
5	8	2	19.1	19.1	18.608	-4.110
6	8	2	21.1	20.3	20.251	-1.091
7	8	2	20.9	18.2	6.658	16.889
-1	9	2	50.0	47.1	19.661	42.748
0	9	2	80.6	83.7	-83.379	7.759
1	9	2	12.3	13.2	7.694	-10.769
2	9	2	30.2	30.6	13.877	27.247
3	9	2	69.7	71.2	-60.110	38.237
4	9	2	24.7	25.8	-25.823	-0.820
5	9	2	30.2	30.1	19.969	-22.560
6	9	2	25.9	24.9	-9.537	-22.996
7	9	2	12.5	10.9	-10.686	-1.971
-1	10	2	43.3	42.3	-31.857	-27.877
0	10	2	46.6	48.4	-44.601	18.769
1	10	2	40.2	43.0	-39.460	-16.968
2	10	2	15.5	16.4	-7.905	-14.390
3	10	2	35.6	35.5	-27.740	-22.220
4	10	2	34.0	33.2	-14.609	-29.785
5	10	2	2.6 *	5.4	4.998	2.092
6	10	2	26.1	25.1	24.356	6.035
7	10	2	21.2	20.2	12.291	-16.051
-1	11	2	12.5	13.7	-6.094	12.226
0	11	2	15.9	16.3	-16.282	-0.736
1	11	2	35.8	36.9	29.471	22.250
2	11	2	51.1	53.2	41.163	33.648
3	11	2	43.5	44.8	-9.285	43.857
4	11	2	19.4	19.3	19.331	0.744
5	11	2	25.3	24.8	23.420	-8.206
6	11	2	10.7	11.0	3.684	10.368

TABLE 1. OBSERVED AND CALCULATED STRUCTURE FACTORS FOR GOOSECREEKITE

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
7	11	2	5.8	4.1	-3.411	2.189
-1	12	2	19.3	19.9	-10.554	16.915
0	12	2	17.1	16.5	-15.667	-5.252
1	12	2	51.9	53.4	16.354	50.812
2	12	2	7.6	6.5	5.723	3.152
3	12	2	26.0	26.7	8.570	-25.326
4	12	2	9.6	8.2	-1.739	8.034
5	12	2	26.5	23.7	-13.951	-19.193
6	12	2	2.7 *	3.2	2.905	1.290
7	12	2	25.5	23.2	16.342	16.398
-1	13	2	15.5	16.0	-5.923	14.813
1	13	2	39.3	38.7	12.012	-36.829
2	13	2	12.6	12.5	-10.006	-7.545
3	13	2	14.0	16.1	-0.860	-16.098
4	13	2	25.6	24.8	15.593	-19.271
5	13	2	6.0	3.2	0.456	-3.216
6	13	2	10.3	8.6	3.711	-7.806
-1	14	2	18.1	18.0	1.964	-17.878
1	14	2	29.2	28.5	20.096	-20.192
2	14	2	6.6	4.9	-4.829	0.956
3	14	2	18.5	18.6	-15.512	-10.349
4	14	2	21.4	20.3	-7.866	-18.707
5	14	2	15.3	15.0	-9.479	-11.587
6	14	2	12.5	10.5	-3.991	9.753
-1	15	2	21.1	22.5	5.023	-21.904
0	15	2	39.9	41.7	-28.838	30.058
1	15	2	30.3	30.0	-9.113	-28.552
2	15	2	36.0	39.2	-6.345	-38.635
3	15	2	25.4	21.9	-6.673	20.818
4	15	2	4.7	6.1	5.434	2.855
5	15	2	14.5	14.7	10.756	-9.993
6	15	2	19.5	19.2	5.648	18.314
0	16	2	21.0	19.8	19.474	-3.805
1	16	2	21.7	21.5	3.731	21.141
2	16	2	18.1	19.2	19.238	0.201
3	16	2	7.5	9.0	8.565	2.626
4	16	2	9.3	9.8	0.835	9.722
5	16	2	5.5	6.3	-1.826	5.990
1	17	2	16.6	16.6	-10.512	-12.902
2	17	2	7.0	9.8	-9.756	-0.707
3	17	2	19.3	17.0	-13.704	9.987
4	17	2	14.6	14.7	-8.868	-11.700
-1	18	2	31.4	30.2	-27.327	-12.961
0	18	2	30.4	29.3	-26.827	-11.664
1	18	2	23.8	23.7	13.916	-19.203
2	18	2	8.8	8.6	8.418	1.651
3	18	2	12.1	10.3	3.100	9.799
4	18	2	20.5	18.3	14.943	-10.522
-1	19	2	13.2	11.4	7.625	-8.454
0	19	2	13.1	8.5	8.229	-2.147
1	19	2	10.8	9.0	7.391	5.123
2	19	2	25.4	23.9	9.707	21.894
3	19	2	20.2	22.3	-13.706	17.548

TABLE 1. OBSERVED AND CALCULATED STRUCTURE FACTORS FOR GOOSECREKITE

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
4	19	2	5.6	3.2	-3.177	0.196
-1	20	2	24.5	22.5	-16.127	15.649
0	20	2	20.4	15.0	-11.126	10.123
1	20	2	15.7	14.6	-1.941	14.483
2	20	2	3.2 *	3.1	2.027	2.395
3	20	2	9.4	8.4	8.010	-2.560
-1	21	2	18.9	19.3	-17.329	-8.411
0	21	2	36.0	33.2	32.831	-5.055
1	21	2	22.3	17.3	15.256	-8.141
2	21	2	15.8	15.5	-13.273	8.025
-1	22	2	3.3 *	1.6	-1.202	1.004
-2	0	3	11.5	8.5	8.479	0.0
-1	0	3	22.6	25.4	-25.396	0.0
0	0	3	84.0	85.0	-85.002	0.0
5	0	3	16.2	14.2	14.152	0.0
6	0	3	8.5	7.0	6.992	0.0
7	0	3	16.4	12.8	12.815	0.0
-2	1	3	36.4	36.0	-35.537	-5.615
-1	1	3	27.0	25.5	4.389	25.072
0	1	3	14.7	17.4	10.164	-14.164
5	1	3	33.6	34.4	29.346	17.891
6	1	3	22.8	20.9	11.500	17.472
7	1	3	16.9	14.4	-10.850	-9.524
-2	2	3	21.4	21.8	13.078	17.421
0	2	3	89.6	84.7	-65.532	-53.711
-1	2	3	43.2	43.4	43.064	-5.602
1	2	3	23.9	24.8	10.126	-22.693
2	2	3	22.9	29.6	-29.629	-0.266
5	2	3	28.3	28.7	12.045	-26.073
6	2	3	31.7	29.7	27.680	-10.786
7	2	3	12.7	12.7	-12.468	2.543
-2	3	3	41.5	40.9	26.546	31.149
-1	3	3	43.6	43.2	-42.457	-7.816
0	3	3	32.0	28.8	-22.529	17.886
1	3	3	36.5	37.5	37.396	-2.048
2	3	3	28.1	28.3	19.790	-20.209
3	3	3	12.6	12.7	2.700	-12.421
4	3	3	16.8	22.1	1.715	-22.037
5	3	3	19.4	19.1	-19.013	-2.020
6	3	3	24.5	25.3	-20.099	15.329
7	3	3	29.0	26.5	-26.499	1.127
-2	4	3	19.2	20.0	-17.568	-9.573
-1	4	3	42.6	42.0	-12.527	40.048
0	4	3	20.5	21.7	-13.797	-16.692
1	4	3	6.8	6.3	3.038	5.570
2	4	3	10.4	10.2	-7.139	-7.216
3	4	3	51.2	52.3	-46.905	-23.099
4	4	3	28.8	28.2	-26.403	10.011
5	4	3	26.8	26.1	13.487	22.382
6	4	3	29.8	28.0	-24.490	-13.602
7	4	3	19.8	21.5	-21.160	-3.519
-2	5	3	34.1	35.3	3.858	-35.112
-1	5	3	16.0	16.8	15.354	-6.913

TABLE 1. OBSERVED AND CALCULATED STRUCTURE FACTORS FOR GOOSECREEKITE

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
0	5	3	20.7	19.7	-19.713	0.880
1	5	3	46.7	47.8	25.706	-40.346
2	5	3	52.6	54.6	53.746	-9.373
3	5	3	11.5	12.8	2.433	12.525
4	5	3	45.7	44.1	-22.270	-38.039
5	5	3	23.9	25.5	21.459	13.852
6	5	3	21.5	20.0	4.459	19.447
7	5	3	20.3	16.7	-15.743	5.702
-2	6	3	45.6	47.3	41.440	-22.797
-1	6	3	30.6	30.6	-19.001	-24.003
0	6	3	85.4	87.8	82.783	-29.202
1	6	3	38.8	39.8	39.587	-4.243
2	6	3	29.8	31.2	-29.804	9.357
3	6	3	21.4	23.4	-20.884	10.614
4	6	3	18.7	18.3	-5.238	17.503
5	6	3	35.4	35.6	-10.820	33.872
6	6	3	11.4	11.0	0.518	10.940
7	6	3	17.1	16.6	-3.161	-16.295
-2	7	3	42.1	43.9	0.397	43.936
-1	7	3	12.4	11.7	-7.094	-9.327
0	7	3	50.9	50.8	-29.296	-41.545
1	7	3	37.9	39.6	-6.163	39.100
2	7	3	25.7	26.0	-14.232	21.718
3	7	3	16.4	16.7	-6.845	-15.185
4	7	3	29.0	28.3	-27.232	-7.577
5	7	3	10.3	9.6	-5.093	-8.107
6	7	3	2.6 *	2.8	-2.785	-0.238
7	7	3	3.0 *	5.3	1.646	-5.073
-2	8	3	47.2	48.1	-31.650	-36.205
-1	8	3	39.1	42.4	-37.011	20.653
0	8	3	26.7	28.6	13.605	-25.175
1	8	3	13.4	14.7	-8.948	11.675
2	8	3	42.1	43.0	-39.556	16.809
3	8	3	39.3	39.8	-30.888	-25.092
4	8	3	17.7	18.9	9.186	16.537
5	8	3	16.8	16.6	-4.225	16.009
6	8	3	7.7	7.1	1.550	-6.971
7	8	3	13.9	12.9	12.912	0.255
-2	9	3	26.5	26.4	-26.243	3.084
-1	9	3	19.0	20.4	16.675	11.805
0	9	3	52.5	55.1	54.715	6.345
1	9	3	24.6	25.9	-22.739	12.443
2	9	3	73.7	76.8	-9.057	76.301
3	9	3	43.9	45.6	34.824	29.433
4	9	3	18.0	19.8	-0.677	-19.832
5	9	3	4.9	2.0	1.691	-0.980
6	9	3	8.0	6.3	2.918	-5.544
7	9	3	21.5	18.0	1.413	-17.948
-2	10	3	15.3	14.8	-12.344	8.091
-1	10	3	34.3	37.3	18.093	32.663
0	10	3	26.0	24.1	-1.706	24.039
1	10	3	32.6	34.8	29.423	18.614
2	10	3	20.6	19.5	8.530	17.552

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
3	10	3	26.6	27.9	8.004	26.719
4	10	3	5.4	3.9	3.113	-2.368
5	10	3	29.0	29.4	16.656	-24.203
6	10	3	8.1	7.4	6.447	-3.727
7	10	3	2.7 *	1.6	-1.440	0.645
-2	11	3	41.2	40.2	-39.857	5.309
-1	11	3	24.2	26.4	23.344	-12.286
0	11	3	35.3	36.3	36.305	0.566
1	11	3	33.4	34.6	-20.302	27.998
2	11	3	33.2	35.2	-34.460	7.200
3	11	3	7.5	7.6	7.313	-2.018
4	11	3	6.6	5.5	-4.623	2.897
5	11	3	24.9	23.8	-2.593	-23.695
6	11	3	6.2	7.9	-2.115	-7.655
-2	12	3	35.5	38.3	-34.087	-17.495
-1	12	3	28.8	29.3	-5.951	28.640
0	12	3	22.1	21.9	7.505	-20.554
1	12	3	22.2	23.0	22.952	-0.197
2	12	3	22.9	21.7	9.469	19.538
3	12	3	40.1	39.7	-23.656	-31.917
4	12	3	28.8	29.9	-11.516	-27.608
5	12	3	15.0	15.5	15.215	-3.155
6	12	3	19.6	17.4	0.775	-17.392
-2	13	3	14.0	13.3	13.271	0.430
-1	13	3	31.6	33.3	32.156	-8.692
0	13	3	9.8	11.2	9.770	5.423
1	13	3	4.1	2.4	0.559	-2.311
2	13	3	10.3	11.5	5.408	10.142
3	13	3	11.0	10.0	0.287	-9.950
4	13	3	8.4	8.5	-1.001	-8.451
5	13	3	10.9	8.9	0.967	8.867
6	13	3	16.8	15.4	3.716	14.925
-2	14	3	9.3	9.7	7.756	5.864
-1	14	3	19.6	19.0	13.558	13.359
1	14	3	16.0	17.1	10.648	13.391
2	14	3	18.5	16.5	14.447	7.941
3	14	3	27.3	27.1	-19.164	-19.151
4	14	3	18.7	18.7	2.686	-18.527
5	14	3	16.4	13.8	-4.467	13.004
-2	15	3	38.5	38.6	9.199	37.537
-1	15	3	30.8	32.8	18.226	-27.313
0	15	3	64.3	63.7	5.826	-63.383
1	15	3	26.9	27.4	-27.098	-3.784
2	15	3	18.3	16.2	-11.597	-11.277
3	15	3	34.4	34.7	-15.690	-30.935
4	15	3	17.3	16.6	-16.480	2.273
5	15	3	7.2	5.2	0.249	5.236
-2	16	3	13.0	11.9	-3.021	-11.470
-1	16	3	20.7	20.0	-1.355	-19.927
1	16	3	3.0 *	3.6	-3.566	-0.726
2	16	3	18.7	17.0	-16.867	2.164
3	16	3	8.8	11.5	-1.276	-11.414
4	16	3	16.8	14.0	3.457	13.563

TABLE 1. OBSERVED AND CALCULATED STRUCTURE FACTORS FOR GOOSECREEKITE

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
5	16	3	8.8	9.2	-1.358	9.056
-2	17	3	21.8	21.4	-18.625	10.572
-1	17	3	15.8	15.8	-9.833	-12.306
1	17	3	11.0	10.8	-10.812	0.899
2	17	3	22.3	22.1	-20.181	8.892
3	17	3	5.6	7.9	7.777	1.408
4	17	3	15.7	15.8	12.498	9.700
-2	18	3	21.0	17.9	-17.791	-1.969
-1	18	3	5.7	2.2	-1.851	-1.184
0	18	3	33.8	33.1	-26.252	20.167
1	18	3	13.0	12.7	1.010	12.645
2	18	3	28.4	27.2	23.784	-13.120
3	18	3	12.1	13.0	-3.441	12.509
-2	19	3	21.8	20.0	-19.464	-4.792
0	19	3	11.4	10.6	2.239	10.352
1	19	3	6.0	8.3	-3.712	7.428
2	19	3	16.9	14.4	10.301	-10.067
3	19	3	9.6	9.7	9.631	-1.072
-2	20	3	17.5	15.0	-15.024	0.434
-1	20	3	17.3	19.8	-19.228	-4.533
0	20	3	15.4	14.7	-10.107	-10.727
1	20	3	8.3	6.9	6.637	-1.700
2	20	3	9.7	11.1	11.032	-0.689
-2	21	3	18.8	20.0	17.850	8.954
-1	21	3	11.4	10.2	-6.172	8.141
0	21	3	14.1	12.1	-11.774	2.818
-3	0	4	12.1	11.8	11.810	0.0
-2	0	4	17.6	17.3	17.279	0.0
-1	0	4	99.4	103.7	103.709	0.0
0	0	4	4.4	3.7	-3.700	0.0
1	0	4	8.8	7.7	-7.665	0.0
2	0	4	20.9	21.5	21.521	0.0
6	0	4	9.3	7.6	-7.634	0.0
-3	1	4	29.7	30.6	-9.245	29.211
-2	1	4	11.7	12.7	10.626	6.978
-1	1	4	51.7	53.9	-39.633	-36.502
0	1	4	46.1	45.4	-24.673	38.137
1	1	4	46.1	47.6	-47.106	7.129
2	1	4	37.8	38.6	-6.483	-38.032
6	1	4	2.4 *	1.6	0.091	1.593
-3	2	4	26.9	27.0	-2.143	-26.956
-2	2	4	33.0	34.3	25.331	-23.198
-1	2	4	24.9	25.3	-7.371	-24.218
0	2	4	45.9	47.0	-18.694	-43.151
1	2	4	17.1	18.2	-16.961	6.649
2	2	4	37.5	39.8	-35.229	18.577
3	2	4	10.5	16.6	-8.774	14.038
6	2	4	14.5	14.0	-10.981	8.755
-3	3	4	42.0	42.2	-33.102	-26.137
-2	3	4	43.7	43.3	-4.769	43.000
-1	3	4	16.7	16.7	-16.621	1.125
0	3	4	37.4	38.0	-37.746	-4.316
1	3	4	47.9	48.2	-1.028	48.233

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
2	3	4	29.6	31.0	28.760	11.588
3	3	4	21.0	21.0	19.225	-8.379
4	3	4	36.3	35.5	33.082	12.800
5	3	4	11.5	11.5	11.492	-0.502
6	3	4	2.5	3.2	1.705	-2.762
-3	4	4	25.3	28.0	-27.834	-3.430
-2	4	4	33.2	34.4	-29.560	-17.635
-1	4	4	38.4	38.4	23.141	-30.585
0	4	4	45.1	46.8	42.948	-18.493
1	4	4	39.4	38.7	-16.705	-34.929
2	4	4	11.1	11.4	4.164	10.575
3	4	4	34.5	34.5	17.494	29.785
4	4	4	30.2	31.3	29.562	10.372
5	4	4	16.5	16.7	-0.153	16.724
6	4	4	18.6	16.4	-13.989	8.616
-3	5	4	9.2	10.8	-5.907	-8.988
-2	5	4	40.6	41.7	-39.572	13.000
-1	5	4	41.0	42.7	-38.704	-18.047
0	5	4	46.3	46.9	40.152	24.230
1	5	4	20.3	20.0	8.512	18.119
2	5	4	11.2	11.9	-11.818	-1.224
3	5	4	31.8	30.8	30.167	-6.297
4	5	4	9.6	8.2	-5.767	-5.781
5	5	4	21.6	20.8	-20.111	-5.428
6	5	4	11.5	9.9	-9.871	0.450
-3	6	4	58.6	58.1	-51.184	27.479
-2	6	4	20.1	17.8	-14.823	9.811
-1	6	4	28.2	28.4	-23.181	-16.334
0	6	4	24.1	26.8	-22.103	15.186
1	6	4	27.0	26.7	6.349	-25.965
2	6	4	65.1	66.8	-15.043	-65.112
3	6	4	7.5	7.5	-5.584	4.962
4	6	4	18.7	17.5	12.405	12.294
5	6	4	9.4	9.9	-6.934	-7.084
6	6	4	17.2	16.1	-8.868	13.436
-3	7	4	21.4	21.0	-21.008	0.993
-2	7	4	44.3	43.7	5.490	-43.392
-1	7	4	31.2	31.1	12.207	-28.653
0	7	4	40.9	41.8	41.594	-3.881
1	7	4	37.9	39.8	29.108	27.201
2	7	4	17.7	18.5	18.058	-4.051
3	7	4	19.8	19.2	13.871	13.235
4	7	4	31.8	31.2	10.866	29.242
5	7	4	21.6	22.0	-10.076	19.597
6	7	4	17.0	13.8	-10.253	-9.164
-3	8	4	60.4	63.7	16.937	61.387
-2	8	4	18.1	18.0	15.387	9.413
-1	8	4	40.4	42.2	40.330	12.425
0	8	4	8.4	7.6	7.240	-2.438
1	8	4	8.5	8.5	7.279	-4.322
2	8	4	14.1	16.2	15.013	5.963
3	8	4	12.2	13.0	-8.651	9.676
4	8	4	20.6	22.2	-14.550	-16.800

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
5	8	4	12.8	12.6	8.873	8.950
6	8	4	11.1	8.8	-8.711	0.970
-3	9	4	37.1	39.2	-15.065	36.160
-2	9	4	63.4	63.9	33.621	-54.360
-1	9	4	40.6	42.5	-16.299	-39.200
0	9	4	28.3	28.8	-18.420	22.183
1	9	4	24.7	24.5	13.991	-20.102
2	9	4	27.0	29.0	-5.223	-28.534
3	9	4	10.8	8.5	3.944	7.529
4	9	4	12.1	11.1	2.733	10.775
5	9	4	12.5	11.2	-9.953	5.067
6	9	4	4.4	3.5	2.592	2.404
-3	10	4	46.5	48.9	-35.988	-33.141
-2	10	4	28.4	27.5	-18.690	-20.119
-1	10	4	23.0	23.8	13.678	-19.498
0	10	4	35.2	37.7	37.716	-0.235
1	10	4	22.2	25.0	7.494	23.862
2	10	4	16.8	16.8	-16.384	3.828
3	10	4	3.6	5.1	-5.021	0.731
4	10	4	6.0	4.9	3.360	-3.536
5	10	4	22.0	21.0	-20.659	-3.600
6	10	4	11.8	14.0	-13.887	-1.612
-3	11	4	8.6	6.7	0.629	-6.634
-2	11	4	41.5	44.1	44.142	0.734
-1	11	4	13.0	13.5	-12.768	4.304
0	11	4	22.2	22.2	-19.322	-10.904
1	11	4	11.7	10.5	-0.865	10.421
2	11	4	8.9	9.1	-2.769	8.706
3	11	4	23.2	23.8	-3.620	-23.484
4	11	4	14.7	13.5	3.797	12.924
5	11	4	5.3	2.8	2.717	-0.828
6	11	4	18.6	17.2	10.936	-13.300
-3	12	4	13.5	14.2	9.774	-10.348
-2	12	4	33.8	35.3	-14.329	-32.246
-1	12	4	7.9	6.9	-1.654	6.711
0	12	4	52.0	53.9	28.537	45.670
1	12	4	12.8	11.0	7.161	-8.367
2	12	4	11.0	11.4	-7.919	8.236
3	12	4	44.8	43.3	32.109	29.072
4	12	4	11.2	13.3	12.485	-4.536
5	12	4	20.2	18.2	-17.591	-4.561
-3	13	4	16.8	17.2	12.913	11.299
-2	13	4	14.8	13.6	6.688	-11.795
-1	13	4	2.7 *	6.5	-5.532	-3.421
0	13	4	13.7	13.3	1.911	13.170
1	13	4	16.0	17.1	-13.374	10.715
2	13	4	30.4	31.3	-30.789	-5.550
3	13	4	25.9	25.3	-25.207	1.916
4	13	4	17.8	17.4	-11.918	-12.638
5	13	4	5.8	4.1	-3.641	-1.821
-3	14	4	21.6	21.4	-13.204	-16.841
-2	14	4	27.9	28.6	-26.303	-11.185
-1	14	4	11.5	10.9	-4.485	-9.924

TABLE 1. OBSERVED AND CALCULATED STRUCTURE FACTORS FOR GOOSECREEKITE

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
0	14	4	15.4	15.5	-3.399	15.160
1	14	4	9.1	8.1	-6.893	-4.187
2	14	4	23.3	25.0	-9.174	-23.232
3	14	4	17.0	16.0	2.771	15.710
4	14	4	5.3	3.9	-0.851	3.799
5	14	4	32.5	29.3	13.159	-26.131
-3	15	4	11.9	12.9	11.557	5.753
-2	15	4	15.8	17.5	12.060	-12.689
-1	15	4	22.9	24.1	11.239	21.311
0	15	4	28.1	28.3	26.925	8.634
1	15	4	15.7	15.5	9.782	11.967
2	15	4	13.5	14.2	-4.536	13.506
3	15	4	11.5	11.7	4.779	-10.670
4	15	4	4.7	5.6	1.814	5.265
-3	16	4	13.7	14.7	2.809	14.456
-2	16	4	8.7	10.7	10.615	1.468
-1	16	4	24.9	25.1	-6.902	24.123
0	16	4	15.5	14.9	-6.578	13.334
1	16	4	16.2	17.1	-15.649	-6.828
2	16	4	8.6	10.9	-10.919	0.502
3	16	4	6.0	6.0	4.308	-4.130
4	16	4	13.5	14.6	6.074	-13.244
-3	17	4	20.7	19.5	-15.044	12.353
-2	17	4	21.3	21.0	13.712	-15.905
-1	17	4	13.8	13.9	10.661	-8.889
0	17	4	8.6	9.1	-5.614	-7.189
1	17	4	17.1	14.9	5.907	-13.687
2	17	4	13.2	10.8	4.419	-9.884
3	17	4	12.8	10.5	-5.819	-8.758
-3	18	4	12.4	11.2	11.170	-0.890
-2	18	4	14.7	15.8	-13.439	8.260
-1	18	4	7.2	6.0	3.558	-4.831
0	18	4	12.7	14.4	6.747	-12.699
1	18	4	34.3	35.4	-35.355	-0.854
2	18	4	19.2	20.1	-19.400	5.384
-3	19	4	9.1	7.7	-5.157	5.666
-2	19	4	17.4	15.9	-9.668	12.622
-1	19	4	16.0	16.8	-10.039	13.523
0	19	4	11.9	11.2	-6.693	-8.994
1	19	4	6.8	5.9	1.003	5.822
2	19	4	3.5	6.5	5.116	3.968
-1	20	4	7.9	9.0	7.246	5.334
0	20	4	22.3	22.7	20.551	9.606
-4	0	5	21.4	20.6	20.585	0.0
-3	0	5	54.9	57.5	57.519	0.0
-2	0	5	3.4	2.7	-2.656	0.0
-1	0	5	17.8	18.1	18.075	0.0
0	0	5	17.8	18.9	18.879	0.0
1	0	5	76.2	79.3	-79.301	0.0
2	0	5	48.8	52.2	-52.215	0.0
3	0	5	19.9	19.5	19.496	0.0
-4	1	5	11.7	12.1	11.053	4.990
-3	1	5	25.8	27.7	2.983	-27.541

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
-2	1	5	4.5	4.7	1.141	4.521
-1	1	5	29.8	30.4	0.261	30.380
0	1	5	9.9	11.4	-10.533	-4.459
1	1	5	35.5	36.4	18.917	-31.084
2	1	5	5.8	9.2	-0.203	-9.210
3	1	5	19.1	18.5	17.813	-4.968
-4	2	5	19.4	20.1	19.894	3.042
-3	2	5	17.8	18.2	16.921	-6.633
-2	2	5	17.4	16.8	12.787	-10.887
-1	2	5	62.3	61.1	58.991	-15.759
0	2	5	18.4	18.6	8.547	16.492
1	2	5	16.2	16.0	-15.361	4.551
2	2	5	5.0	1.6	-0.369	1.562
3	2	5	32.6	29.7	-1.583	29.651
4	2	5	25.4	24.7	-5.072	24.169
-4	3	5	36.4	32.8	29.760	13.910
-3	3	5	33.3	33.4	-9.414	-32.080
-2	3	5	49.6	53.3	-42.266	-32.444
-1	3	5	48.9	49.8	-25.619	42.684
0	3	5	56.3	58.8	-55.492	19.564
1	3	5	55.4	56.4	-52.944	-19.341
2	3	5	19.3	18.1	18.042	1.341
3	3	5	13.6	14.8	-10.873	-9.975
4	3	5	15.7	14.2	-12.221	-7.315
5	3	5	22.0	21.5	21.487	1.117
-4	4	5	52.6	54.1	-52.099	-14.673
-3	4	5	25.4	26.4	-25.475	-6.760
-2	4	5	22.3	21.8	-20.273	8.009
-1	4	5	23.3	23.8	-18.569	-14.901
0	4	5	41.3	41.8	-41.688	-2.477
1	4	5	7.8	9.3	-8.746	-3.223
2	4	5	40.1	40.4	38.501	-12.151
3	4	5	26.0	27.1	26.988	2.246
4	4	5	12.8	11.8	-10.803	4.756
5	4	5	14.3	13.5	12.050	6.099
-4	5	5	19.0	20.6	-19.872	5.369
-3	5	5	18.4	17.8	-12.356	-12.816
-2	5	5	31.6	33.5	28.301	-17.845
-1	5	5	42.5	42.9	-19.284	38.325
0	5	5	27.2	27.1	-12.346	24.117
1	5	5	37.0	38.0	19.026	32.951
2	5	5	29.5	30.7	22.194	21.175
3	5	5	19.8	19.6	5.182	18.855
4	5	5	24.0	23.3	19.951	12.066
5	5	5	8.2	9.0	-3.171	-8.395
-4	6	5	21.2	22.1	-15.366	15.915
-3	6	5	33.3	33.8	-26.107	21.459
-2	6	5	80.5	79.2	9.537	78.646
-1	6	5	20.5	20.8	2.457	20.677
0	6	5	54.1	53.8	-13.644	-52.074
1	6	5	18.8	19.9	19.752	-2.413
2	6	5	36.0	37.6	36.975	6.848
3	6	5	43.0	42.3	20.181	-37.174

TABLE 1. OBSERVED AND CALCULATED STRUCTURE FACTORS FOR GOOSECREEKITE

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
4	6	5	2.7 *	7.4	3.584	-6.512
5	6	5	6.7	4.7	4.666	0.003
-4	7	5	14.6	16.0	-5.491	14.990
-3	7	5	4.5	3.1	0.557	-3.072
-2	7	5	12.5	12.9	-3.424	-12.472
-1	7	5	37.3	36.3	28.442	-22.589
0	7	5	16.1	16.1	-5.718	-15.041
1	7	5	24.0	26.0	14.277	-21.735
2	7	5	25.6	24.3	24.211	-2.571
3	7	5	10.6	10.7	-9.741	-4.459
4	7	5	22.4	19.7	-10.118	16.889
5	7	5	7.0	7.9	-5.717	5.425
-4	8	5	24.4	23.5	-23.395	-2.544
-3	8	5	7.1	4.8	-4.026	2.634
-2	8	5	26.3	25.1	-16.313	19.033
-1	8	5	13.2	15.7	6.783	-14.136
0	8	5	30.0	31.1	31.102	0.867
1	8	5	29.5	27.0	-9.648	-25.179
2	8	5	23.4	24.3	-8.233	-22.834
3	8	5	10.1	10.4	7.791	-6.874
4	8	5	20.5	19.9	-17.130	-10.157
5	8	5	17.8	18.8	-17.551	-6.676
-4	9	5	25.1	25.6	24.216	8.157
-3	9	5	10.4	11.0	10.955	0.129
-2	9	5	7.3	9.7	-9.684	0.553
-1	9	5	42.5	42.8	5.383	-42.450
0	9	5	33.3	34.7	-3.016	-34.520
1	9	5	13.9	11.2	2.998	-10.825
2	9	5	24.4	24.7	9.758	-22.679
3	9	5	13.7	14.7	-4.924	13.835
4	9	5	29.1	28.6	6.592	27.807
5	9	5	15.6	13.5	11.757	6.726
-4	10	5	23.1	21.8	0.627	21.822
-3	10	5	18.6	20.2	4.784	-19.637
-2	10	5	24.9	25.2	24.000	-7.778
-1	10	5	13.3	13.8	12.417	-6.002
0	10	5	8.1	7.9	-7.702	-1.814
1	10	5	13.7	11.7	8.679	7.857
2	10	5	14.4	14.0	13.882	-1.790
3	10	5	9.5	9.6	-4.259	8.613
4	10	5	29.9	28.2	-10.668	26.144
5	10	5	18.4	16.7	-14.312	-8.632
-4	11	5	27.3	26.8	18.896	19.056
-3	11	5	6.6	5.9	-5.856	-0.519
-2	11	5	37.0	38.3	-27.902	-26.229
-1	11	5	6.6	5.0	-4.521	2.215
0	11	5	17.6	17.0	-14.913	-8.134
1	11	5	25.0	23.0	-16.794	-15.701
2	11	5	4.2	5.9	-5.430	-2.292
3	11	5	20.8	19.5	-19.527	-0.880
4	11	5	7.7	6.5	-1.107	-6.392
5	11	5	23.2	20.8	10.723	17.861
-4	12	5	39.3	37.2	-23.206	-29.094

TABLE 1. OBSERVED AND CALCULATED STRUCTURE FACTORS FOR GOOSECREEKITE

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
-3	12	5	43.6	40.9	-35.228	-20.696
-2	12	5	21.3	21.3	8.045	-19.693
-1	12	5	19.6	17.7	-1.405	-17.647
0	12	5	25.9	25.7	-24.296	8.526
1	12	5	13.8	11.5	-2.781	11.164
2	12	5	18.1	20.6	18.516	9.097
3	12	5	18.8	17.2	-6.318	15.975
4	12	5	11.3	9.6	-7.066	6.427
-4	13	5	8.3	8.1	-6.110	-5.301
-3	13	5	18.4	17.6	-15.373	-8.502
-2	13	5	15.8	13.5	2.769	13.251
-1	13	5	11.2	10.1	9.677	2.889
0	13	5	32.6	31.6	1.354	31.611
1	13	5	11.5	11.6	-1.509	11.523
2	13	5	14.1	13.0	12.073	-4.893
3	13	5	13.7	11.3	2.277	11.105
4	13	5	8.9	9.2	7.187	5.752
-4	14	5	4.5	4.6	-1.645	-4.256
-3	14	5	27.5	25.7	-5.585	-25.099
-2	14	5	34.0	34.5	13.800	31.628
-1	14	5	12.4	12.2	-7.012	9.975
0	14	5	21.6	20.3	-6.561	-19.203
1	14	5	30.6	29.2	-8.107	28.071
2	14	5	18.1	20.4	8.765	18.368
3	14	5	33.3	30.5	25.668	-16.390
4	14	5	14.7	13.3	12.531	4.449
-4	15	5	22.5	23.1	-20.009	-11.528
-3	15	5	22.9	23.2	-16.795	-16.012
-2	15	5	10.4	10.5	9.554	4.381
-1	15	5	32.4	31.1	6.485	30.375
0	15	5	15.1	17.1	0.304	17.088
1	15	5	11.2	10.7	8.661	-6.247
2	15	5	8.6	7.9	-4.305	-6.596
3	15	5	14.4	13.4	-8.762	10.127
-4	16	5	11.8	9.4	7.052	-6.183
-3	16	5	13.8	14.2	-5.616	13.082
-2	16	5	3.0 *	7.1	2.783	6.510
-1	16	5	6.8	8.3	1.684	-8.154
0	16	5	5.5	5.0	-5.000	-0.196
1	16	5	16.8	16.8	-14.917	-7.791
2	16	5	28.3	23.0	-20.843	-9.694
3	16	5	3.0 *	2.9	1.505	-2.498
-4	17	5	12.2	11.2	10.961	-2.369
-3	17	5	15.9	16.3	15.228	5.742
-2	17	5	15.2	15.3	1.655	15.208
-1	17	5	22.9	22.9	17.876	14.257
0	17	5	26.0	22.7	6.083	21.829
1	17	5	13.6	13.3	13.136	1.824
-4	18	5	11.5	10.2	5.866	8.287
-3	18	5	20.5	19.8	19.233	4.519
-2	18	5	33.8	32.1	31.958	-3.127
-1	18	5	15.4	14.1	11.169	8.563
0	18	5	5.8	6.9	-2.226	6.538

TABLE 1. OBSERVED AND CALCULATED STRUCTURE FACTORS FOR GOOSECREEKITE

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
1	18	5	9.3	8.9	-8.806	1.254
-1	19	5	16.7	17.1	-16.047	-5.901
-5	0	6	21.4	20.6	20.640	0.0
-4	0	6	43.6	43.0	-42.954	0.0
-3	0	6	24.4	25.2	25.204	0.0
-2	0	6	75.6	79.3	79.295	0.0
-1	0	6	32.5	33.0	-32.963	0.0
0	0	6	10.8	8.9	-8.851	0.0
1	0	6	47.0	47.7	47.728	0.0
2	0	6	5.8	7.9	-7.851	0.0
3	0	6	23.8	23.8	-23.795	0.0
4	0	6	2.4 *	2.6	-2.611	0.0
-5	1	6	23.7	22.0	6.988	-20.810
-4	1	6	22.2	21.7	11.725	-18.250
-3	1	6	28.4	28.1	-25.397	12.020
-2	1	6	9.2	8.5	-0.208	8.478
-1	1	6	17.0	18.3	-18.253	1.561
0	1	6	16.3	16.3	-9.848	-13.042
1	1	6	9.3	12.3	-12.296	0.012
2	1	6	21.6	22.1	-20.398	8.534
3	1	6	8.8	7.1	-4.792	5.225
4	1	6	17.8	18.2	14.016	-11.598
-5	2	6	44.9	45.2	-44.118	9.984
-4	2	6	13.0	13.0	-11.737	-5.652
-3	2	6	9.6	10.2	10.181	0.633
-2	2	6	27.8	28.3	1.740	28.268
-1	2	6	37.6	36.9	-32.151	18.197
0	2	6	31.0	31.4	-23.959	-20.319
1	2	6	9.2	8.7	8.423	-2.200
2	2	6	15.3	13.2	7.951	10.594
3	2	6	29.0	28.9	-16.832	-23.465
4	2	6	18.6	15.1	-9.822	-11.409
-5	3	6	2.8 *	1.9	1.366	1.345
-4	3	6	34.8	34.9	26.748	-22.442
-3	3	6	37.7	40.0	37.560	13.792
-2	3	6	11.2	14.1	-14.042	1.423
-1	3	6	12.5	13.8	10.629	8.758
0	3	6	50.7	47.8	42.485	21.918
1	3	6	18.8	18.9	-13.563	-13.166
2	3	6	18.6	19.1	-18.650	-3.968
3	3	6	40.3	38.6	25.496	28.950
4	3	6	10.1	11.5	7.068	-9.128
-5	4	6	14.4	13.0	11.755	-5.544
-4	4	6	21.8	22.8	17.055	15.094
-3	4	6	46.5	49.0	21.052	44.222
-2	4	6	30.3	30.5	-0.855	30.506
-1	4	6	26.1	27.6	-22.215	16.325
0	4	6	22.9	23.5	23.258	3.580
1	4	6	21.5	19.4	19.389	0.326
2	4	6	23.0	22.0	-20.748	-7.275
3	4	6	18.3	15.3	13.476	-7.266
4	4	6	13.7	12.5	2.066	-12.351
-5	5	6	8.4	11.3	7.958	8.037

TABLE 1. OBSERVED AND CALCULATED STRUCTURE FACTORS FOR GOOSECREEKITE

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
-4	5	6	22.9	24.4	21.146	-12.109
-3	5	6	21.9	23.8	10.399	-21.432
-2	5	6	16.7	17.5	-17.222	-3.162
-1	5	6	9.8	10.6	-10.255	-2.696
0	5	6	29.8	28.1	-25.123	-12.573
1	5	6	14.9	14.8	-4.584	-14.076
2	5	6	18.7	17.4	-16.749	-4.724
3	5	6	16.8	14.6	-13.245	6.072
4	5	6	6.3	4.4	-3.695	2.348
-5	6	6	42.3	41.8	-0.308	-41.804
-4	6	6	13.7	15.4	-5.815	14.238
-3	6	6	10.5	10.6	-10.555	-1.359
-2	6	6	30.9	30.8	-5.023	-30.370
-1	6	6	30.4	32.4	0.168	32.401
0	6	6	24.9	23.3	-12.103	19.866
1	6	6	18.9	16.3	-2.274	-16.140
2	6	6	12.4	11.2	10.758	3.226
3	6	6	12.4	11.4	1.074	-11.389
4	6	6	12.7	13.9	-1.592	-13.794
-5	7	6	14.1	12.1	4.744	11.126
-4	7	6	13.6	12.7	12.740	-0.305
-3	7	6	32.8	32.0	14.116	28.678
-2	7	6	18.4	19.6	-19.262	3.744
-1	7	6	10.0	13.4	-11.030	7.628
0	7	6	12.9	14.4	-0.491	-14.374
1	7	6	20.8	20.2	-13.918	-14.638
2	7	6	17.1	16.4	5.584	15.462
3	7	6	15.3	16.3	11.305	11.807
4	7	6	24.0	21.9	1.671	-21.799
-5	8	6	10.8	9.3	9.123	1.559
-4	8	6	22.7	22.5	-18.183	-13.322
-3	8	6	8.7	10.6	-4.990	9.403
-2	8	6	24.2	24.4	22.755	8.754
-1	8	6	8.9	6.9	-5.580	-4.104
0	8	6	12.2	12.5	-10.454	-6.864
1	8	6	15.6	15.8	15.184	-4.501
2	8	6	19.6	19.3	16.945	9.261
3	8	6	2.5 *	1.9	1.204	1.413
4	8	6	2.9 *	2.6	-1.756	-1.855
-5	9	6	18.3	18.1	12.929	12.707
-4	9	6	11.9	13.4	-2.650	13.148
-3	9	6	15.6	15.7	12.039	-10.036
-2	9	6	24.6	22.2	-5.040	21.604
-1	9	6	10.7	8.0	-6.999	3.824
0	9	6	28.6	29.3	1.332	-29.320
1	9	6	17.1	16.3	-14.432	-7.633
2	9	6	25.5	24.9	-24.415	4.641
3	9	6	15.3	14.6	0.017	-14.561
4	9	6	5.4	6.6	-5.763	-3.115
-5	10	6	12.6	10.8	-10.576	2.243
-4	10	6	8.6	9.9	-9.745	1.626
-3	10	6	14.2	13.8	-8.011	-11.198
-2	10	6	24.0	22.7	-20.783	-9.133

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
-1	10	6	14.2	14.3	-13.763	3.858
0	10	6	24.8	26.2	-1.186	-26.133
1	10	6	2.8 *	3.6	1.638	-3.255
2	10	6	25.7	25.0	-2.187	24.869
3	10	6	18.0	15.6	-4.035	-15.041
4	10	6	2.9 *	2.5	-2.340	-0.981
-5	11	6	5.7	8.3	-8.274	0.068
-4	11	6	17.6	16.2	-13.163	-9.494
-3	11	6	13.1	13.5	13.231	-2.542
-2	11	6	4.5	7.2	4.616	5.512
-1	11	6	7.8	7.3	5.200	-5.124
0	11	6	20.2	18.7	15.105	10.970
1	11	6	15.3	15.2	8.533	-12.588
2	11	6	7.7	9.2	4.990	7.740
3	11	6	29.9	28.4	16.894	22.797
4	11	6	2.8 *	4.7	1.403	4.493
-5	12	6	11.8	9.5	-9.439	1.213
-4	12	6	22.7	22.3	17.411	13.966
-3	12	6	28.0	28.6	22.873	17.246
-2	12	6	16.0	17.2	-15.096	-8.267
-1	12	6	12.6	10.1	-5.830	-8.230
0	12	6	12.5	10.1	2.342	9.774
1	12	6	6.6	5.3	-3.858	3.609
2	12	6	15.5	13.7	11.810	-7.037
3	12	6	7.5	7.7	5.060	5.814
-5	13	6	34.5	31.9	-31.627	4.270
-4	13	6	25.8	25.2	-22.634	-11.032
-3	13	6	12.1	14.2	-1.091	-14.112
-2	13	6	14.3	11.6	-9.982	5.878
-1	13	6	6.9	3.2	0.936	3.060
0	13	6	19.1	19.0	11.649	-15.026
1	13	6	9.7	10.8	9.924	4.291
2	13	6	3.0 *	6.2	5.375	-3.151
3	13	6	6.8	6.1	-5.194	-3.136
-5	14	6	21.1	20.5	1.160	-20.494
-4	14	6	20.7	21.2	-8.168	19.560
-3	14	6	3.1 *	6.3	3.014	5.550
-2	14	6	26.4	26.7	4.625	-26.301
-1	14	6	13.9	13.4	-7.803	10.909
0	14	6	16.6	14.1	-13.154	5.109
1	14	6	15.4	11.5	-0.032	-11.507
2	14	6	9.3	5.3	4.061	3.385
-5	15	6	8.1	9.1	-8.267	-3.753
-4	15	6	3.0 *	3.1	-2.453	1.895
-3	15	6	3.2 *	2.5	-2.418	0.437
-2	15	6	8.7	6.7	1.353	6.574
-1	15	6	8.3	7.3	-1.549	7.147
0	15	6	8.5	10.1	10.082	0.705
1	15	6	16.8	15.3	15.299	0.460
2	15	6	20.3	17.6	9.746	14.703
-4	16	6	9.7	8.6	5.724	-6.466
-3	16	6	27.8	25.9	23.801	-10.273
-2	16	6	24.2	24.1	23.946	2.435

TABLE 1. OBSERVED AND CALCULATED STRUCTURE FACTORS FOR GOOSECREEKITE

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
-1	16	6	17.3	16.2	15.231	5.493
0	16	6	14.9	14.5	-10.621	9.883
-3	17	6	17.7	16.4	5.621	-15.452
-2	17	6	19.8	20.0	-12.094	15.907
-1	17	6	17.5	14.5	-13.506	5.354
-6	0	7	61.0	62.1	-62.144	0.0
-5	0	7	37.6	38.9	-38.872	0.0
-4	0	7	7.2	5.5	5.455	0.0
-3	0	7	28.1	28.3	-28.293	0.0
-2	0	7	23.1	23.1	-23.080	0.0
-1	0	7	2.6 *	0.6	0.552	0.0
0	0	7	7.8	9.5	9.466	0.0
1	0	7	16.5	16.9	16.932	0.0
2	0	7	10.8	9.1	9.087	0.0
3	0	7	2.7 *	1.4	-1.436	0.0
-6	1	7	16.1	13.8	-12.310	-6.164
-5	1	7	6.8	6.6	5.428	-3.764
-4	1	7	21.0	19.5	18.960	4.388
-3	1	7	11.3	13.2	13.074	-1.868
-2	1	7	24.5	26.4	22.802	13.211
-1	1	7	29.7	30.2	30.032	-2.757
0	1	7	6.3	7.9	-3.809	6.873
1	1	7	26.8	24.6	15.844	18.824
2	1	7	11.0	10.6	10.391	1.915
3	1	7	21.4	20.2	-19.746	4.486
-6	2	7	2.8 *	4.6	-2.099	4.112
-5	2	7	5.7	5.3	0.470	5.232
-4	2	7	35.7	36.6	22.204	29.101
-3	2	7	30.9	29.4	0.865	29.344
-2	2	7	20.4	20.5	-18.734	-8.414
-1	2	7	21.2	21.7	19.144	10.315
0	2	7	25.8	24.8	24.830	-0.907
1	2	7	14.9	15.3	0.122	-15.264
2	2	7	19.7	19.2	9.651	-16.541
3	2	7	6.8	6.5	-3.739	-5.362
-6	3	7	16.8	15.3	-12.835	-8.307
-5	3	7	4.2	4.1	-0.965	-3.956
-4	3	7	12.7	12.3	-2.939	-11.932
-3	3	7	13.3	14.2	13.571	-4.235
-2	3	7	29.0	30.4	29.524	7.338
-1	3	7	23.3	24.1	-2.247	-23.949
0	3	7	13.1	11.9	0.420	-11.863
1	3	7	22.2	21.1	6.881	19.894
2	3	7	16.1	15.9	-13.732	7.940
3	3	7	20.2	20.6	-17.550	-10.866
-6	4	7	16.0	16.3	-15.193	-5.972
-5	4	7	18.6	18.5	18.209	3.181
-4	4	7	11.3	11.2	10.399	-4.212
-3	4	7	10.8	10.1	-9.303	-3.913
-2	4	7	16.7	17.6	15.436	8.380
-1	4	7	8.3	9.6	-9.258	2.355
0	4	7	20.1	19.8	-17.577	9.208
1	4	7	5.4	1.0	-0.906	0.296

TABLE 1. OBSERVED AND CALCULATED STRUCTURE FACTORS FOR GOOSECREEKITE

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
2	4	7	21.5	21.4	-13.205	-16.859
3	4	7	27.4	25.6	-23.480	-10.195
-6	5	7	3.0 *	3.5	2.862	2.012
-5	5	7	2.9 *	3.8	3.800	0.243
-4	5	7	18.8	18.2	17.534	5.017
-3	5	7	5.9	5.6	1.119	5.480
-2	5	7	17.4	17.2	14.232	9.657
-1	5	7	22.5	21.7	9.480	-19.527
0	5	7	36.1	35.5	8.464	-34.461
1	5	7	9.0	9.2	0.366	9.216
2	5	7	8.7	7.9	-5.834	5.265
3	5	7	25.1	20.4	3.877	-20.072
-6	6	7	11.3	12.1	10.211	-6.402
-5	6	7	12.5	13.8	10.633	-8.846
-4	6	7	37.0	36.1	28.872	-21.711
-3	6	7	20.7	20.1	20.034	0.850
-2	6	7	9.0	9.9	-8.722	4.665
-1	6	7	6.0	5.7	3.245	4.737
0	6	7	14.1	15.6	1.857	15.470
1	6	7	16.6	15.0	-11.826	9.299
2	6	7	17.4	14.8	-11.726	8.972
3	6	7	25.2	22.2	-10.269	19.737
-6	7	7	3.1 *	4.7	4.219	1.981
-5	7	7	20.4	20.4	18.480	-8.728
-4	7	7	11.7	8.7	-4.655	-7.349
-3	7	7	23.0	22.4	-13.461	17.884
-2	7	7	14.0	15.5	-12.127	9.579
-1	7	7	33.3	33.3	-27.465	-18.836
0	7	7	24.1	21.9	-16.944	13.804
1	7	7	18.2	17.3	-17.315	0.474
2	7	7	38.9	36.6	-30.019	-20.919
3	7	7	4.5	4.6	1.152	-4.414
-6	8	7	20.0	19.0	-11.958	-14.742
-5	8	7	14.3	13.8	-7.382	-11.675
-4	8	7	25.0	23.3	11.399	-20.374
-3	8	7	21.0	20.2	-4.979	-19.616
-2	8	7	30.2	28.2	-26.707	-9.153
-1	8	7	7.9	10.3	-9.493	3.992
0	8	7	20.7	21.3	-2.766	21.108
1	8	7	23.8	23.6	5.752	22.878
2	8	7	6.5	6.9	-5.021	-4.799
3	8	7	13.7	11.3	-1.797	11.107
-6	9	7	16.3	14.1	-8.342	-11.322
-5	9	7	14.0	11.3	8.696	-7.293
-4	9	7	14.3	14.0	1.094	14.005
-3	9	7	21.6	22.7	-11.080	19.836
-2	9	7	23.6	22.0	14.977	16.162
-1	9	7	26.0	25.0	2.337	24.904
0	9	7	13.4	13.4	-8.921	10.018
1	9	7	20.9	16.8	14.370	8.735
2	9	7	22.2	20.3	18.518	8.346
3	9	7	11.0	8.7	-0.405	-8.648
-6	10	7	10.4	8.7	-0.057	8.707

TABLE 1. OBSERVED AND CALCULATED STRUCTURE FACTORS FOR GOOSECREEKITE

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
-5	10	7	14.5	12.1	-3.207	-11.629
-4	10	7	11.6	10.1	2.725	9.698
-3	10	7	26.1	24.7	5.070	24.144
-2	10	7	15.7	14.9	-0.167	-14.898
-1	10	7	17.7	15.6	-13.874	-7.106
0	10	7	18.0	16.5	7.800	14.538
1	10	7	12.2	12.5	9.429	-8.177
2	10	7	11.5	11.0	5.838	-9.341
-6	11	7	14.8	14.1	-13.819	-2.564
-5	11	7	2.9 *	2.7	-2.613	0.567
-4	11	7	11.9	12.9	-3.977	-12.303
-3	11	7	18.4	13.7	-5.071	12.741
-2	11	7	26.6	25.5	21.876	13.117
-1	11	7	10.8	7.0	4.915	-5.025
0	11	7	10.1	9.8	-1.647	-9.627
1	11	7	11.3	10.8	10.232	3.306
2	11	7	9.4	7.3	-6.423	-3.481
-5	12	7	22.8	21.7	9.499	19.537
-4	12	7	11.2	8.5	-8.506	0.775
-3	12	7	17.6	14.8	-11.372	9.501
-2	12	7	15.5	14.8	-7.639	12.664
-1	12	7	22.3	21.4	-6.595	-20.374
0	12	7	19.1	17.6	-0.215	-17.556
1	12	7	2.9 *	1.0	0.936	-0.378
-4	13	7	6.9	5.5	1.262	5.398
-3	13	7	3.2 *	0.6	0.271	0.526
-2	13	7	16.6	13.4	11.744	-6.526
-1	13	7	14.4	12.2	11.735	-3.363
0	13	7	22.6	22.1	19.212	-10.823
1	13	7	11.2	9.8	8.642	4.528
-4	14	7	25.6	23.3	20.612	-10.939
-3	14	7	23.0	22.2	20.034	9.456
-2	14	7	12.0	8.7	1.275	8.640
-1	14	7	6.5	7.4	5.234	-5.191
-2	15	7	29.7	27.6	-11.987	-24.838
-7	0	8	12.1	9.9	-9.897	0.0
-6	0	8	31.6	30.7	30.709	0.0
-5	0	8	25.9	22.9	22.902	0.0
-4	0	8	12.5	13.0	-12.970	0.0
-3	0	8	12.8	12.2	-12.168	0.0
-2	0	8	6.6	3.5	3.524	0.0
-1	0	8	16.2	17.0	17.031	0.0
0	0	8	8.5	7.5	7.516	0.0
1	0	8	3.8	2.3	2.344	0.0
2	0	8	11.4	11.3	11.266	0.0
-7	1	8	14.7	13.2	-0.931	13.123
-6	1	8	5.3	3.9	3.220	-2.154
-5	1	8	19.6	18.9	-18.533	-3.895
-4	1	8	3.2 *	4.3	3.759	2.002
-3	1	8	8.2	10.8	9.629	-4.899
-2	1	8	20.2	19.2	-17.102	-8.807
-1	1	8	2.7 *	1.2	-0.057	-1.192
0	1	8	13.3	12.7	12.673	0.497

TABLE 1. OBSERVED AND CALCULATED STRUCTURE FACTORS FOR GOOSECREEKITE

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
1	7	8	19.0	15.6	11.824	10.163
-5	8	8	22.6	22.1	22.081	-1.016
-4	8	8	20.6	18.3	14.551	11.161
-3	8	8	15.3	13.7	-6.075	-12.304
-2	8	8	12.1	11.9	5.718	10.458
-1	8	8	11.5	11.8	8.065	8.561
0	8	8	8.1	6.5	-3.493	-5.473
1	8	8	23.5	21.2	-19.853	7.420
-5	9	8	20.2	20.1	-18.304	-8.251
-4	9	8	8.2	5.2	4.591	2.523
-3	9	8	11.8	9.7	-6.908	-6.831
-2	9	8	35.1	31.4	-29.028	-12.079
-1	9	8	10.7	9.3	2.869	8.863
0	9	8	11.2	10.6	4.113	9.811
1	9	8	21.4	17.6	-17.341	-2.895
-4	10	8	15.7	13.1	-1.923	-12.924
-3	10	8	18.0	15.7	-10.646	-11.486
-2	10	8	17.8	18.0	-9.288	15.407
-1	10	8	9.3	8.5	7.881	3.261
0	10	8	6.3	1.4	-1.039	0.996
-4	11	8	19.1	17.2	6.037	16.071
-3	11	8	8.5	8.9	2.594	8.510
-2	11	8	3.3 *	2.3	-2.054	1.090
-5	0	9	11.1	7.1	7.093	0.0
-4	0	9	14.8	12.4	12.437	0.0
-3	0	9	10.4	8.8	-8.793	0.0
-2	0	9	11.7	10.0	-10.049	0.0
-1	0	9	10.6	7.1	-7.096	0.0
0	0	9	27.1	23.4	-23.370	0.0
-5	1	9	11.1	6.5	4.947	4.216
-4	1	9	23.8	23.0	-22.017	-6.479
-3	1	9	8.9	7.6	-6.927	-3.110
-2	1	9	24.1	21.4	1.183	-21.410
-1	1	9	15.3	11.4	-6.161	-9.583
0	1	9	8.9	7.8	7.777	0.118
-5	2	9	25.1	22.9	20.536	-10.022
-4	2	9	14.9	14.2	-5.870	-12.938
-3	2	9	20.7	18.0	-13.022	-12.442
-2	2	9	16.6	13.0	12.199	-4.511
-1	2	9	10.4	8.2	-2.725	7.716
0	2	9	11.6	9.0	-6.748	5.928
-5	3	9	16.9	17.5	0.706	17.468
-4	3	9	24.1	23.0	-22.812	-2.926
-3	3	9	34.3	29.4	-29.432	1.029
-2	3	9	20.0	18.5	-5.383	17.672
-1	3	9	5.5	7.0	-5.034	4.810
0	3	9	20.4	18.7	-17.485	-6.553
-4	4	9	22.8	21.7	-20.937	-5.514
-3	4	9	15.7	14.9	-6.272	-13.465
-2	4	9	18.3	17.9	7.318	-16.368
-1	4	9	2.9 *	5.9	5.345	2.472
-4	5	9	16.6	14.3	-3.429	-13.888
-3	5	9	17.3	16.9	15.684	6.275

TABLE 1. OBSERVED AND CALCULATED STRUCTURE FACTORS FOR GOOSECREEKITE

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
1	1	8	12.1	12.3	-11.227	5.090
2	1	8	15.9	14.9	-4.012	14.371
-7	2	8	26.6	25.4	-22.509	-11.745
-6	2	8	5.8	6.6	2.829	6.015
-5	2	8	8.6	7.9	-6.774	4.101
-4	2	8	25.6	25.7	-21.026	-14.803
-3	2	8	21.0	20.5	5.466	-19.767
-2	2	8	2.8 *	3.2	-2.499	2.028
-1	2	8	9.5	9.3	-5.742	-7.253
0	2	8	12.8	10.7	7.955	7.211
1	2	8	9.2	6.1	-5.594	2.353
2	2	8	4.3	3.2	-0.856	-3.122
-5	3	8	9.8	9.5	-4.290	-8.504
-4	3	8	19.4	19.5	5.140	18.773
-3	3	8	9.1	8.9	8.200	3.511
-2	3	8	26.3	26.6	6.488	-25.771
-1	3	8	10.5	10.6	9.830	-3.924
0	3	8	18.2	17.2	15.676	7.018
1	3	8	18.5	15.6	14.423	-6.047
2	3	8	9.2	9.8	-5.576	-8.083
-6	4	8	8.6	7.2	-2.820	-6.646
-5	4	8	5.9	8.4	-2.816	-7.899
-4	4	8	10.3	11.8	11.688	-1.323
-3	4	8	6.4	9.7	7.207	-6.429
-2	4	8	15.3	13.1	-8.975	-9.590
-1	4	8	20.8	21.2	20.711	-4.493
0	4	8	10.8	9.2	6.516	-6.539
1	4	8	17.9	15.5	-3.271	15.160
2	4	8	12.9	12.0	-0.908	11.936
-6	5	8	14.8	14.8	-4.900	-11.150
-5	5	8	17.8	16.6	-13.898	-8.987
-4	5	8	25.1	22.0	-12.824	17.902
-3	5	8	5.6	6.9	-1.206	6.825
-2	5	8	13.9	15.7	2.665	-15.452
-1	5	8	12.2	11.2	4.280	10.397
0	5	8	22.9	22.6	-9.913	20.311
1	5	8	17.7	16.6	-10.948	-12.502
2	5	8	10.2	8.8	5.290	-7.055
-6	6	8	6.5	5.5	-1.035	-5.433
-5	6	8	8.8	7.8	2.724	-7.256
-4	6	8	5.6	4.3	-4.241	0.905
-3	6	8	9.3	10.0	-0.923	-9.950
-2	6	8	14.3	12.7	-9.734	-8.234
-1	6	8	11.6	9.7	-0.289	-9.691
0	6	8	14.1	12.2	10.699	5.780
1	6	8	27.8	24.5	-19.676	14.625
2	6	8	19.4	17.9	-17.386	4.128
-4	7	8	13.5	11.5	-0.458	11.475
-5	7	8	3.2 *	3.9	2.880	2.639
-3	7	8	8.3	9.6	1.806	-9.447
-2	7	8	22.2	23.7	21.227	10.616
-1	7	8	21.8	19.0	17.234	8.091
0	7	8	11.6	7.5	7.304	-1.610

TABLE 1. OBSERVED AND CALCULATED STRUCTURE FACTORS FOR GOOSECREEKITE

H	K	L	F(OBS)	F(CALC)	A(CALC)	B(CALC)
-1	5	9	19.6	16.7	15.569	6.105
-3	6	9	10.1	8.5	5.578	6.435
-1	6	9	16.3	14.4	1.800	-14.239

