TABLE 4.K

Intensity Measurements (total counts)

DATA ANALYSIS
EXPERIMENT OF 12/21/71, T=127 DEG K, RHO=1.135 GM/CC

2θ	S	CELL	CELL+ARGON	ARGON ALONE
3.0	0.4629	1467	3184	2574*
3.5	0.5400	614	2513	2255
4.0	0.6171	625	2463	2197
4.5	0.6942	662	2473	2188
5.0	0.7713	848	2643	2274
5.5	0.8483	954	2413	1994*
6.0	0.9254	1381	2950	2336
6.5	1.0024	1173	3356	2829
7.0	1.0794	1545	3534	2832
7.5	1.1564	1592	4420	3688
8.0	1.2334	1551	4255	3532
8.5	1.3104	1634	5116	4345
9.0	1.3873	1480	6101	5394
9.5	1.4642	1840	7384	6493
10.0	1.5411	1726	8953	8106
10.5	1.6179	1849	11593	10675
11.0	1.6947	2153	14314	13232
11.5	1.7715	2606	17480	16154
12.0	1.8482	2055	19262	18204
12.5	1.9249	2053	19902	18833
13.0	2.0016	2271	18501	17305
13.5	2.0783	2289	16199	14980
14.0	2.1549	2184	14017	12840
14.5	2.2314	2340	11930	10655
15.0	2.3079	2326	10644	9362
15.5	2.3844	2399	9390	8053
16.0	2.4608	2573	8353	6903
16.5	2.5372	2735	8136	6578
17.0	2.6135	2720	7778	6211
17.5	2.6898	3920	8268	5986
18.0	2.7660	2719	7348	5748
18.5	2.8422	3312	7374	5405
19.0	2.9183	3665	7626	5425
19.5	2.9944	3208	7510	5565
20.0	3.0704	5004	8840	5777
20.5	3.1463	10098	11158	4920*
21.0	3.2222	4897	9275	6223
21.5	3.2981	3054	8266	6346
22.0	3.3738	3441	8467	6287
22.5	3.4495	7540	10805	5990*
23.0	3.5252	26851	26338	9061*
23.5	3.6007	32672	25038	3863*

TABLE 4.K (cont.)

Intensity Measurements (total counts)

DATA ANALYSIS
EXPERIMENT OF 12/21/71, T=127 DEG K, RHO=1.135 GM/CC

2θ	S	CELL	CELL+ARGON	ARGON ALONE
24.0	3.6762	11513	14131	6618 *
24.5	3.7517	2942	7641	5708
25.0	3.8270	2991	7812	5834
25.5	3.9023	3170	7678	5569
26.0	3.9775	3129	7578	5484
26.5	4.0526	2953	6879	4891
27.0	4.1277	3129	7090	4973
27.5	4.2027	2950	6522	4516
28.0	4.2776	2897	6394	4414
28.5	4.3524	3097	6262	4135
29.0	4.4271	3127	6136	3979
29.5	4.5018	2981	6133	4068
30.0	4.5764	3174	6226	4018
30.5	4.6508	4064	6442	3604
31.0	4.7252	13685	12781	3190 *
31.5	4.7995	3602	6230	3696
32.0	4.8737	3041	5739	3593
32.5	4.9478	2816	5917	3923
33.0	5.0219	3061	5900	3726
33.5	5.0958	3705	6691	4052
34.0	5.1696	3158	5961	3705
34.5	5.2434	2934	6103	4002
35.0	5.3170	3017	5827	3661
35.5	5.3905	3735	6251	3563
36.0	5.4639	5012	6992	3378
36.5	5.5373	6938	8609	3595
37.0	5.6105	3228	5734	3396
37.5	5.6836	2950	5753	3613
38.0	5.7566	3020	5386	3191
38.5	5.8295	3045	5330	3113
39.0	5.9023	3209	5206	2866
39.5	5.9749	3396	5414	2934
40.0	6.0475	3736	5375	2642
40.5	6.1199	10858	10264	2313 *
41.0	6.1923	8605	9701	3390 *
41.5	6.2645	3448	5264	2732
42.0	6.3365	4180	5751	2677
42.5	6.4085	3797	5744	2949
43.0	6.4804	4583	5924	2546
43.5	6.5521	10042	9727	2319
44.0	6.6237	6741	7540	2561
44.5	6.6951	3078	4913	2637

TABLE 4.K (cont.)

Intensity Measurements (total counts)

DATA ANALYSIS
EXPERIMENT OF 12/21/71, T=127 DEG K, RHO=1.135 GM/CC

2θ	S	CELL	CELL+ARGON	ARGON ALONE
45.0	6.7665	3022	4943	2706
45.5	6.8377	2948	4722	2538
46.0	6.9088	2948	4859	2673
46.5	6.9797	3550	5457	2823
47.0	7.0506	4019	5488	2504
47.5	7.1212	3010	4741	2504
48.0	7.1918	2869	4734	2601
48.5	7.2622	4370	5674	2423
49.0	7.3325	2833	4524	2415
49.5	7.4026	2982	4499	2278
50.0	7.4726	2942	4498	2306
50.5	7.5424	2906	4478	2312
51.0	7.6122	2883	4533	2383
51.5	7.6817	4382	5487	2218
52.0	7.7511	3558	4992	2337
52.5	7.8204	2762	4161	2099
53.0	7.8895	2798	4221	2132
53.5	7.9585	2747	4293	2242
54.0	8.0273	2620	4080	2123
54.5	8.0960	2789	4070	1986
55.0	8.1645	2735	4040	1996
55.5	8.2328	5242	5818	1900
56.0	8.3010	3891	4822	1913
56.5	8.3691	3070	4275	1980
57.0	8.4370	3070	4246	1950
57.5	8.5047	2863	4017	1876
58.0	8.5722	5581	6073	1901
58.5	8.6396	4106	5241	2172
59.0	8.7069	2750	4142	2086
59.5	8.7739	2609	3859	1909
60.0	8.8408	2554	3875	1966

TABLE 5.A

DATA ANALYSIS
EXPERIMENT OF 2/23/71, T=143 DEG K, RHO=0.91 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
0.0			2.9000E-01
0.0772			1.1545E-01
0.1543			-1.9539E-01
0.2315			-4.3230E-01
0.3086			-5.7709E-01
0.3857			-6.5860E-01
0.4629	2.7025E 03	2.7997E 03	-6.9670E-01
0.5400	2.5339E 03	2.6068E 03	-7.1587E-01
0.6171	2.3939E 03	2.4426E 03	-7.3181E-01
0.6942	2.2973E 03	2.3216E 03	-7.4290E-01
0.7713	2.2585E 03	2.2585E 03	-7.4737E-01
0.8483	2.2921E 03	2.2677E 03	-7.4336E-01
0.9254	2.4126E 03	2.3639E 03	-7.2885E-01
1.0024	2.6345E 03	2.5641E 03	-7.0130E-01
1.0794	2.9118E 03	2.8428E 03	-6.6307E-01
1.1564	3.2206E 03	3.1448E 03	-6.2028E-01
1.2334	3.5971E 03	3.5079E 03	-5.6789E-01
1.3104	4.0775E 03	3.9694E 03	-5.0030E-01
1.3873	4.6977E 03	4.5662E 03	-4.1192E-01
1.4642	5.4939E 03	5.3352E 03	-2.9619E-01
1.5411	6.5019E 03	6.3127E 03	-1.4607E-01
1.6179	7.7574E 03	7.5353E 03	4.6168E-02
1.6947	9.2347E 03	9.0402E 03	2.8924E-01
1.7715	1.0149E 04	1.0073E 04	4.7560E-01
1.8482	1.0369E 04	1.0382E 04	5.6208E-01
1.9249	1.0048E 04	1.0122E 04	5.6396E-01
2.0016	9.3380E 03	9.4477E 03	4.9963E-01
2.0783	8.3895E 03	8.5144E 03	3.8819E-01
2.1549	7.3537E 03	7.4750E 03	2.5148E-01
2.2314	6.3811E 03	6.4819E 03	1.1402E-01
2.3079	5.6218E 03	5.6871E 03	3.2940E-03
2.3844	5.1327E 03	5.1791E 03	-6.1564E-02
2.4608	4.7320E 03	4.7691E 03	-1.1237E-01
2.5372	4.4050E 03	4.4337E 03	-1.5217E-01
2.6135	4.1504E 03	4.1713E 03	-1.8066E-01
2.6898	3.9667E 03	3.9805E 03	-1.9670E-01
2.7660	3.8526E 03	3.8597E 03	-1.9938E-01
2.8422	3.8066E 03	3.8075E 03	-1.8774E-01
2.9183	3.8273E 03	3.8226E 03	-1.6079E-01
2.9944	3.9133E 03	3.9034E 03	-1.1754E-01
3.0704	4.0212E 03	4.0139E 03	-6.5409E-02

TABLE 5.A (cont.)

DATA ANALYSIS
EXPERIMENT OF 2/23/71, T=143 DEG K, RHO=0.91 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
3.1463	4.0959E 03	4.0913E 03	-1.9588E-02
3.2222	4.1393E 03	4.1372E 03	1.9789E-02
3.2981	4.1535E 03	4.1535E 03	5.2502E-02
3.3738	4.1407E 03	4.1426E 03	7.8461E-02
3.4495	4.1028E 03	4.1064E 03	9.7620E-02
3.5252	4.0421E 03	4.0471E 03	1.0998E-01
3.6007	3.9605E 03	3.9667E 03	1.1558E-01
3.6762	3.8603E 03	3.8675E 03	1.1452E-01
3.7517	3.7433E 03	3.7514E 03	1.0695E-01
3.8270	3.6118E 03	3.6205E 03	9.2887E-02
3.9023	3.4677E 03	3.4769E 03	7.2943E-02
3.9775	3.3130E 03	3.3226E 03	4.7242E-02
4.0526	3.1573E 03	3.1659E 03	1.8310E-02
4.1277	3.0223E 03	3.0295E 03	-5.9087E-03
4.2027	2.9075E 03	2.9135E 03	-2.4952E-02
4.2776	2.8108E 03	2.8157E 03	-3.9083E-02
4.3524	2.7303E 03	2.7343E 03	-4.8621E-02
4.4271	2.6640E 03	2.6672E 03	-5.3941E-02
4.5018	2.6100E 03	2.6125E 03	-5.5468E-02
4.5764	2.5664E 03	2.5684E 03	-5.3677E-02
4.6508	2.5312E 03	2.5327E 03	-4.9098E-02
4.7252	2.5024E 03	2.5037E 03	-4.2319E-02
4.7995	2.4784E 03	2.4794E 03	-3.3986E-02
4.8737	2.4570E 03	2.4580E 03	-2.4798E-02
4.9478	2.4365E 03	2.4375E 03	-1.5512E-02
5.0219	2.4151E 03	2.4161E 03	-6.9387E-03
5.0958	2.3908E 03	2.3919E 03	-1.8477E-06
5.1696	2.3618E 03	2.3632E 03	
5.2434	2.3264E 03	2.3281E 03	
5.3170	2.2869E 03	2.2885E 03	
5.3905	2.2484E 03	2.2500E 03	
5.4639	2.2109E 03	2.2124E 03	
5.5373	2.1745E 03	2.1759E 03	
5.6105	2.1390E 03	2.1403E 03	
5.6836	2.1045E 03	2.1058E 03	
5.7566	2.0709E 03	2.0721E 03	
5.8295	2.0382E 03	2.0394E 03	
5.9023	2.0064E 03	2.0075E 03	
5.9749	1.9754E 03	1.9765E 03	
6.0475	1.9453E 03	1.9463E 03	
6.1199	1.9160E 03	1.9170E 03	

TABLE 5.A (cont.)

DATA ANALYSIS
EXPERIMENT OF 2/23/71, T=143 DEG K, RHO=0.91 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
6.1923	1.8875E 03	1.8884E 03	
6.2645	1.8597E 03	1.8607E 03	
6.3365	1.8327E 03	1.8336E 03	
6.4085	1.8064E 03	1.8073E 03	
6.4804	1.7808E 03	1.7816E 03	
6.5521	1.7559E 03	1.7567E 03	
6.6237	1.7316E 03	1.7324E 03	
6.6951	1.7080E 03	1.7087E 03	
6.7665	1.6849E 03	1.6856E 03	
6.8377	1.6625E 03	1.6631E 03	
6.9088	1.6405E 03	1.6412E 03	
6.9797	1.6192E 03	1.6198E 03	
7.0506	1.5983E 03	1.5989E 03	
7.1212	1.5779E 03	1.5785E 03	
7.1918	1.5580E 03	1.5586E 03	
7.2622	1.5386E 03	1.5391E 03	
7.3325	1.5196E 03	1.5201E 03	
7.4026	1.5010E 03	1.5014E 03	
7.4726	1.4827E 03	1.4832E 03	
7.5424	1.4649E 03	1.4653E 03	
7.6122	1.4474E 03	1.4478E 03	
7.6817	1.4302E 03	1.4306E 03	
7.7511	1.4133E 03	1.4137E 03	
7.8204	1.3968E 03	1.3971E 03	
7.8895	1.3805E 03	1.3808E 03	
7.9585	1.3644E 03	1.3647E 03	
8.0273	1.3486E 03	1.3489E 03	
8.0960	1.3329E 03	1.3333E 03	
8.1645	1.3175E 03	1.3178E 03	
8.2328	1.3023E 03	1.3026E 03	
8.3010	1.2872E 03	1.2875E 03	
8.3691	1.2722E 03	1.2725E 03	
8.4370	1.2574E 03	1.2577E 03	
8.5047	1.2427E 03	1.2429E 03	
8.5722	1.2280E 03	1.2283E 03	
8.6396	1.2135E 03	1.2137E 03	
8.7069	1.1990E 03	1.1992E 03	
8.7739	1.1845E 03	1.1847E 03	
8.8408	1.1700E 03	1.1703E 03	

TABLE 5.A (cont.)

DATA ANALYSIS
EXPERIMENT OF 2/23/71, T=143 DEG K, RHO=0.91 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
0.3	-0.0382	-7.0026	
0.4	0.1362	-6.6323	
0.5	0.3027	-6.2299	
0.6	0.4330	-5.8336	
0.7	0.5055	-5.4751	
0.8	0.5093	-5.1749	
0.9	0.4457	-4.9404	
1.0	0.3278	-4.7653	
1.1	0.1779	-4.6324	
1.2	0.0231	-4.5178	
1.3	-0.1097	-4.3960	
1.4	-0.1989	-4.2457	
1.5	-0.2317	-4.0531	
1.6	-0.2067	-3.8156	
1.7	-0.1336	-3.5411	
1.8	-0.0308	-3.2469	
1.9	0.0776	-2.9558	
2.0	0.1676	-2.6913	
2.1	0.2191	-2.4730	
2.2	0.2206	-2.3124	
2.3	0.1713	-2.2104	
2.4	0.0814	-2.1567	
2.5	-0.0290	-2.1316	
2.6	-0.1341	-2.1088	
2.7	-0.2059	-2.0604	
2.8	-0.2199	-1.9612	
2.9	-0.1587	-1.7934	
3.0	-0.0153	-1.5498	
3.1	0.2056	-1.2346	278.37
3.2	0.4882	-0.8633	145.61
3.3	0.8081	-0.4604	64.48
3.4	1.1357	-0.0554	6.81
3.5	1.4408	0.3212	-36.08
3.6	1.6963	0.6426	-68.09
3.7	1.8823	0.8886	-91.35
3.8	1.9878	1.0482	-107.16
3.9	2.0118	1.1206	-116.44
4.0	1.9623	1.1140	-119.93
4.1	1.8544	1.0438	-118.34
4.2	1.7073	0.9295	-112.42
4.3	1.5417	0.7920	-103.09
4.4	1.3763	0.6503	-91.46

TABLE 5.A (cont.)

DATA ANALYSIS
EXPERIMENT OF 2/23/71, T=143 DEG K, RHO=0.91 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
4.5	1.2260	0.5195	-78.82
4.6	1.1004	0.4094	-66.54
4.7	1.0038	0.3245	-55.83
4.8	0.9355	0.2641	-47.43
4.9	0.8914	0.2242	-41.43
5.0	0.8652	0.1989	-37.35
5.1	0.8503	0.1818	-34.41
5.2	0.8413	0.1678	-31.82
5.3	0.8341	0.1533	-29.04
5.4	0.8272	0.1370	-25.89
5.5	0.8206	0.1192	-22.45
5.6	0.8159	0.1018	-19.05
5.7	0.8150	0.0867	-16.08
5.8	0.8199	0.0759	-13.89
5.9	0.8318	0.0704	-12.64
6.0	0.8507	0.0700	-12.29
6.1	0.8757	0.0738	-12.59
6.2	0.9051	0.0797	-13.18
6.3	0.9363	0.0856	-13.70
6.4	0.9673	0.0893	-13.85
6.5	0.9958	0.0894	-13.46
6.6	1.0206	0.0854	-12.49
6.7	1.0409	0.0773	-11.04
6.8	1.0568	0.0663	-9.26
6.9	1.0686	0.0537	-7.37
7.0	1.0772	0.0412	-5.58
7.1	1.0830	0.0303	-4.06
7.2	1.0868	0.0219	-2.92
7.3	1.0887	0.0166	-2.20
7.4	1.0888	0.0142	-1.87
7.5	1.0870	0.0142	-1.88
7.6	1.0830	0.0158	-2.10
7.7	1.0769	0.0182	-2.43
7.8	1.0688	0.0206	-2.78
7.9	1.0589	0.0224	-3.06
8.0	1.0477	0.0233	-3.22
8.1	1.0360	0.0233	-3.25
8.2	1.0242	0.0223	-3.15
8.3	1.0129	0.0205	-2.93
8.4	1.0024	0.0180	-2.59
8.5	0.9929	0.0148	-2.15
8.6	0.9845	0.0110	-1.61

TABLE 5.A (cont.)

DATA ANALYSIS
EXPERIMENT OF 2/23/71, T=143 DEG K, RHO=0.91 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
8.7	0.9771	0.0066	-0.96
8.8	0.9706	0.0016	-0.23
8.9	0.9651	-0.0037	0.55
9.0	0.9608	-0.0091	1.34
9.1	0.9578	-0.0140	2.08
9.2	0.9566	-0.0181	2.68
9.3	0.9574	-0.0208	3.07
9.4	0.9604	-0.0218	3.21
9.5	0.9655	-0.0210	3.07
9.6	0.9726	-0.0183	2.67
9.7	0.9810	-0.0142	2.06
9.8	0.9902	-0.0091	1.32
9.9	0.9994	-0.0037	0.53
10.0	1.0078	0.0014	-0.19

TABLE 5.B

DATA ANALYSIS
EXPERIMENT OF 6/16/71, T=143 DEG K, RHO=0.91 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
0.0			2.9000E-01
0.0772			7.8177E-02
0.1543			-2.6485E-01
0.2315			-5.0031E-01
0.3086			-6.3368E-01
0.3857			-7.0392E-01
0.4629	3.8531E 03	3.9261E 03	-7.3172E-01
0.5400	3.7295E 03	3.7802E 03	-7.4014E-01
0.6171	3.6373E 03	3.6656E 03	-7.4617E-01
0.6942	3.5900E 03	3.5959E 03	-7.4883E-01
0.7713	3.6010E 03	3.5844E 03	-7.4708E-01
0.8483	3.6837E 03	3.6446E 03	-7.3980E-01
0.9254	3.8514E 03	3.7899E 03	-7.2579E-01
1.0024	4.1175E 03	4.0337E 03	-7.0378E-01
1.0794	4.4958E 03	4.3889E 03	-6.7222E-01
1.1564	5.0067E 03	4.8747E 03	-6.2912E-01
1.2334	5.6735E 03	5.5147E 03	-5.7189E-01
1.3104	6.5193E 03	6.3323E 03	-4.9753E-01
1.3873	7.5673E 03	7.3511E 03	-4.0322E-01
1.4642	8.8405E 03	8.5941E 03	-2.8542E-01
1.5411	1.0362E 04	1.0085E 04	-1.4035E-01
1.6179	1.2154E 04	1.1846E 04	3.6122E-02
1.6947	1.4164E 04	1.3902E 04	2.4868E-01
1.7715	1.5397E 04	1.5295E 04	4.1051E-01
1.8482	1.5698E 04	1.5715E 04	4.8838E-01
1.9249	1.5265E 04	1.5365E 04	4.9433E-01
2.0016	1.4298E 04	1.4448E 04	4.4339E-01
2.0783	1.2992E 04	1.3165E 04	3.5101E-01
2.1549	1.1547E 04	1.1718E 04	2.3492E-01
2.2314	1.0158E 04	1.0305E 04	1.1501E-01
2.3079	9.0223E 03	9.1249E 03	1.3604E-02
2.3844	8.2304E 03	8.3052E 03	-5.2500E-02
2.4608	7.5885E 03	7.6475E 03	-1.0388E-01
2.5372	7.0719E 03	7.1171E 03	-1.4318E-01
2.6135	6.6704E 03	6.7036E 03	-1.7101E-01
2.6898	6.3736E 03	6.3965E 03	-1.8733E-01
2.7660	6.1711E 03	6.1854E 03	-1.9243E-01
2.8422	6.0528E 03	6.0597E 03	-1.8667E-01
2.9183	6.0085E 03	6.0093E 03	-1.7032E-01
2.9944	6.0278E 03	6.0238E 03	-1.4443E-01
3.0704	6.1008E 03	6.0929E 03	-1.0952E-01

TABLE 5.B (cont.)

DATA ANALYSIS
EXPERIMENT OF 6/16/71, T=143 DEG K, RHO=0.91 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
3.1463	6.2172E 03	6.2066E 03	-6.6584E-02
3.2222	6.3631E 03	6.3527E 03	-1.6547E-02
3.2981	6.4661E 03	6.4608E 03	2.8719E-02
3.3738	6.5072E 03	6.5064E 03	6.4701E-02
3.4495	6.4923E 03	6.4952E 03	9.1803E-02
3.5252	6.4270E 03	6.4332E 03	1.0970E-01
3.6007	6.3173E 03	6.3261E 03	1.1899E-01
3.6762	6.1688E 03	6.1798E 03	1.2033E-01
3.7517	5.9871E 03	5.9998E 03	1.1366E-01
3.8270	5.7781E 03	5.7921E 03	9.9929E-02
3.9023	5.5473E 03	5.5621E 03	7.9909E-02
3.9775	5.3003E 03	5.3156E 03	5.3946E-02
4.0526	5.0526E 03	5.0664E 03	2.5246E-02
4.1277	4.8347E 03	4.8464E 03	3.2234E-04
4.2027	4.6460E 03	4.6559E 03	-1.9883E-02
4.2776	4.4840E 03	4.4923E 03	-3.5742E-02
4.3524	4.3463E 03	4.3532E 03	-4.7720E-02
4.4271	4.2304E 03	4.2360E 03	-5.5571E-02
4.5018	4.1339E 03	4.1384E 03	-5.9782E-02
4.5764	4.0543E 03	4.0580E 03	-6.0702E-02
4.6508	3.9893E 03	3.9922E 03	-5.8663E-02
4.7252	3.9365E 03	3.9388E 03	-5.4036E-02
4.7995	3.8934E 03	3.8953E 03	-4.7285E-02
4.8737	3.8578E 03	3.8593E 03	-3.8920E-02
4.9478	3.8273E 03	3.8286E 03	-2.9417E-02
5.0219	3.7996E 03	3.8008E 03	-1.9140E-02
5.0958	3.7724E 03	3.7736E 03	-9.2407E-03
5.1696	3.7433E 03	3.7447E 03	-2.5034E-06
5.2434	3.7102E 03	3.7118E 03	
5.3170	3.6708E 03	3.6726E 03	
5.3905	3.6228E 03	3.6250E 03	
5.4639	3.5640E 03	3.5666E 03	
5.5373	3.4945E 03	3.4972E 03	
5.6105	3.4256E 03	3.4282E 03	
5.6836	3.3592E 03	3.3617E 03	
5.7566	3.2954E 03	3.2977E 03	
5.8295	3.2339E 03	3.2361E 03	
5.9023	3.1748E 03	3.1769E 03	
5.9749	3.1179E 03	3.1198E 03	
6.0475	3.0631E 03	3.0650E 03	
6.1199	3.0105E 03	3.0123E 03	

TABLE 5.B (cont.)

DATA ANALYSIS
EXPERIMENT OF 6/16/71, T=143 DEG K, RHO=0.91 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
6.1923	2.9599E 03	2.9616E 03	
6.2645	2.9113E 03	2.9129E 03	
6.3365	2.8646E 03	2.8661E 03	
6.4085	2.8196E 03	2.8210E 03	
6.4804	2.7764E 03	2.7778E 03	
6.5521	2.7349E 03	2.7362E 03	
6.6237	2.6950E 03	2.6962E 03	
6.6951	2.6566E 03	2.6577E 03	
6.7665	2.6197E 03	2.6207E 03	
6.8377	2.5842E 03	2.5852E 03	
6.9088	2.5500E 03	2.5509E 03	
6.9797	2.5170E 03	2.5179E 03	
7.0506	2.4853E 03	2.4861E 03	
7.1212	2.4547E 03	2.4555E 03	
7.1918	2.4251E 03	2.4259E 03	
7.2622	2.3966E 03	2.3973E 03	
7.3325	2.3690E 03	2.3696E 03	
7.4026	2.3422E 03	2.3429E 03	
7.4726	2.3163E 03	2.3169E 03	
7.5424	2.2911E 03	2.2917E 03	
7.6122	2.2666E 03	2.2672E 03	
7.6817	2.2427E 03	2.2433E 03	
7.7511	2.2194E 03	2.2199E 03	
7.8204	2.1966E 03	2.1971E 03	
7.8895	2.1742E 03	2.1747E 03	
7.9585	2.1523E 03	2.1527E 03	
8.0273	2.1306E 03	2.1311E 03	
8.0960	2.1093E 03	2.1097E 03	
8.1645	2.0881E 03	2.0886E 03	
8.2328	2.0672E 03	2.0676E 03	
8.3010	2.0463E 03	2.0467E 03	
8.3691	2.0255E 03	2.0259E 03	
8.4370	2.0047E 03	2.0051E 03	
8.5047	1.9838E 03	1.9842E 03	
8.5722	1.9629E 03	1.9632E 03	
8.6396	1.9418E 03	1.9421E 03	
8.7069	1.9205E 03	1.9208E 03	
8.7739	1.8989E 03	1.8993E 03	
8.8408	1.8771E 03	1.8774E 03	

TABLE 5.B (cont.)

DATA ANALYSIS
EXPERIMENT OF 6/16/71, T=143 DEG K, RHO=0.91 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
0.3	-1.0108	-7.9841	
0.4	-0.6829	-7.4541	
0.5	-0.3499	-6.8795	
0.6	-0.0565	-6.3163	
0.7	0.1619	-5.8110	
0.8	0.2844	-5.3950	
0.9	0.3079	-5.0800	
1.0	0.2462	-4.8592	
1.1	0.1265	-4.7097	
1.2	-0.0160	-4.5986	
1.3	-0.1458	-4.4907	
1.4	-0.2330	-4.3552	
1.5	-0.2593	-4.1719	
1.6	-0.2206	-3.9345	
1.7	-0.1272	-3.6512	
1.8	-0.0010	-3.3423	
1.9	0.1296	-3.0351	
2.0	0.2354	-2.7583	
2.1	0.2930	-2.5354	
2.2	0.2893	-2.3796	
2.3	0.2244	-2.2912	
2.4	0.1120	-2.2568	
2.5	-0.0233	-2.2519	
2.6	-0.1500	-2.2450	
2.7	-0.2358	-2.2034	
2.8	-0.2530	-2.0991	
2.9	-0.1835	-1.9139	
3.0	-0.0222	-1.6424	
3.1	0.2223	-1.2931	274.46
3.2	0.5293	-0.8872	140.77
3.3	0.8688	-0.4548	60.21
3.4	1.2068	-0.0305	3.57
3.5	1.5101	0.3522	-37.98
3.6	1.7514	0.6656	-68.37
3.7	1.9122	0.8912	-89.73
3.8	1.9854	1.0219	-103.39
3.9	1.9747	1.0617	-110.32
4.0	1.8933	1.0243	-111.37
4.1	1.7606	0.9297	-107.39
4.2	1.5991	0.8010	-99.39
4.3	1.4306	0.6605	-88.56
4.4	1.2734	0.5267	-76.33

TABLE 5.B (cont.)

DATA ANALYSIS
EXPERIMENT OF 6/16/71, T=143 DEG K, RHO=0.91 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
4.5	1.1402	0.4127	-64.25
4.6	1.0375	0.3251	-53.76
4.7	0.9660	0.2648	-45.81
4.8	0.9218	0.2278	-40.60
4.9	0.8981	0.2078	-37.63
5.0	0.8876	0.1973	-35.94
5.1	0.8831	0.1898	-34.60
5.2	0.8799	0.1807	-32.88
5.3	0.8750	0.1679	-30.47
5.4	0.8681	0.1513	-27.38
5.5	0.8604	0.1325	-23.91
5.6	0.8540	0.1138	-20.45
5.7	0.8511	0.0975	-17.40
5.8	0.8533	0.0850	-15.01
5.9	0.8612	0.0769	-13.38
6.0	0.8746	0.0724	-12.36
6.1	0.8924	0.0703	-11.73
6.2	0.9129	0.0687	-11.19
6.3	0.9345	0.0663	-10.52
6.4	0.9560	0.0619	-9.57
6.5	0.9764	0.0554	-8.36
6.6	0.9955	0.0474	-6.97
6.7	1.0131	0.0387	-5.57
6.8	1.0295	0.0307	-4.32
6.9	1.0448	0.0245	-3.39
7.0	1.0588	0.0207	-2.83
7.1	1.0710	0.0197	-2.66
7.2	1.0809	0.0210	-2.81
7.3	1.0876	0.0238	-3.17
7.4	1.0904	0.0271	-3.60
7.5	1.0890	0.0300	-3.99
7.6	1.0834	0.0317	-4.25
7.7	1.0742	0.0320	-4.32
7.8	1.0624	0.0309	-4.22
7.9	1.0491	0.0289	-3.99
8.0	1.0356	0.0264	-3.69
8.1	1.0229	0.0240	-3.39
8.2	1.0118	0.0221	-3.16
8.3	1.0026	0.0208	-3.00
8.4	0.9952	0.0199	-2.90
8.5	0.9893	0.0193	-2.81
8.6	0.9846	0.0184	-2.70

TABLE 5.B (cont.)

DATA ANALYSIS
EXPERIMENT OF 6/16/71, T=143 DEG K, RHO=0.91 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
8.7	0.9805	0.0170	-2.50
8.8	0.9769	0.0150	-2.22
8.9	0.9737	0.0125	-1.85
9.0	0.9711	0.0099	-1.46
9.1	0.9697	0.0075	-1.12
9.2	0.9696	0.0060	-0.89
9.3	0.9713	0.0057	-0.85
9.4	0.9749	0.0068	-1.00
9.5	0.9801	0.0092	-1.35
9.6	0.9865	0.0126	-1.83
9.7	0.9935	0.0163	-2.36
9.8	1.0002	0.0198	-2.86
9.9	1.0062	0.0224	-3.22
10.0	1.0107	0.0238	-3.40

TABLE 5.C

DATA ANALYSIS
EXPERIMENT OF 6/23/71, T=127 DEG K, RHO=1.116 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
0.0			-7.7000E-01
0.0772			-7.7347E-01
0.1543			-7.8293E-01
0.2315			-7.9604E-01
0.3086			-8.1011E-01
0.3857			-8.2287E-01
0.4629	2.1789E 03	2.2352E 03	-8.3264E-01
0.5400	2.0852E 03	2.1223E 03	-8.4045E-01
0.6171	2.0204E 03	2.0383E 03	-8.4598E-01
0.6942	1.9960E 03	1.9946E 03	-8.4831E-01
0.7713	2.0234E 03	2.0028E 03	-8.4641E-01
0.8483	2.1143E 03	2.0744E 03	-8.3927E-01
0.9254	2.2802E 03	2.2210E 03	-8.2582E-01
1.0024	2.5324E 03	2.4540E 03	-8.0476E-01
1.0794	2.8824E 03	2.7848E 03	-7.7481E-01
1.1564	3.3417E 03	3.2250E 03	-7.3435E-01
1.2334	3.9216E 03	3.7858E 03	-6.8181E-01
1.3104	4.5895E 03	4.4532E 03	-6.1750E-01
1.3873	5.3626E 03	5.1952E 03	-5.4372E-01
1.4642	6.4382E 03	6.2077E 03	-4.4153E-01
1.5411	8.0182E 03	7.6975E 03	-2.8985E-01
1.6179	1.0304E 04	9.8700E 03	-6.5193E-02
1.6947	1.3392E 04	1.2934E 04	2.5847E-01
1.7715	1.5945E 04	1.5658E 04	5.6516E-01
1.8482	1.7391E 04	1.7279E 04	7.7356E-01
1.9249	1.7594E 04	1.7661E 04	8.6088E-01
2.0016	1.6420E 04	1.6668E 04	8.0312E-01
2.0783	1.3893E 04	1.4213E 04	5.7724E-01
2.1549	1.1593E 04	1.1827E 04	3.4625E-01
2.2314	9.8614E 03	1.0030E 04	1.7064E-01
2.3079	8.5758E 03	8.6962E 03	4.0827E-02
2.3844	7.6142E 03	7.7029E 03	-5.4533E-02
2.4608	6.8548E 03	6.9263E 03	-1.2820E-01
2.5372	6.1993E 03	6.2565E 03	-1.9231E-01
2.6135	5.7089E 03	5.7475E 03	-2.3943E-01
2.6898	5.3840E 03	5.4070E 03	-2.6619E-01
2.7660	5.2038E 03	5.2139E 03	-2.7352E-01
2.8422	5.1476E 03	5.1475E 03	-2.6318E-01
2.9183	5.1948E 03	5.1868E 03	-2.3659E-01
2.9944	5.3250E 03	5.3112E 03	-1.9542E-01
3.0704	5.5177E 03	5.5001E 03	-1.4233E-01

TABLE 5.C (cont.)

DATA ANALYSIS
EXPERIMENT OF 6/23/71, T=127 DEG K, RHO=1.116 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
3.1463	5.7525E 03	5.7329E 03	-7.9754E-02
3.2222	6.0044E 03	5.9870E 03	-1.0478E-02
3.2981	6.1823E 03	6.1727E 03	4.9168E-02
3.3738	6.2667E 03	6.2637E 03	9.4028E-02
3.4495	6.2689E 03	6.2715E 03	1.2455E-01
3.5252	6.2004E 03	6.2074E 03	1.4132E-01
3.6007	6.0724E 03	6.0828E 03	1.4613E-01
3.6762	5.8960E 03	5.9090E 03	1.3966E-01
3.7517	5.6824E 03	5.6972E 03	1.2404E-01
3.8270	5.4427E 03	5.4584E 03	1.0051E-01
3.9023	5.1879E 03	5.2039E 03	7.1377E-02
3.9775	4.9291E 03	4.9446E 03	3.8628E-02
4.0526	4.6828E 03	4.6963E 03	5.7354E-03
4.1277	4.4703E 03	4.4816E 03	-2.2135E-02
4.2027	4.2898E 03	4.2992E 03	-4.4163E-02
4.2776	4.1387E 03	4.1463E 03	-6.0881E-02
4.3524	4.0141E 03	4.0202E 03	-7.2237E-02
4.4271	3.9132E 03	3.9180E 03	-7.9082E-02
4.5018	3.8332E 03	3.8369E 03	-8.1534E-02
4.5764	3.7714E 03	3.7741E 03	-7.9941E-02
4.6508	3.7250E 03	3.7270E 03	-7.4777E-02
4.7252	3.6913E 03	3.6927E 03	-6.6295E-02
4.7995	3.6676E 03	3.6686E 03	-5.5588E-02
4.8737	3.6513E 03	3.6519E 03	-4.2952E-02
4.9478	3.6395E 03	3.6400E 03	-2.8813E-02
5.0219	3.6298E 03	3.6302E 03	-1.4400E-02
5.0958	3.6194E 03	3.6199E 03	-1.6689E-06
5.1696	3.6058E 03	3.6065E 03	
5.2434	3.5863E 03	3.5873E 03	
5.3170	3.5585E 03	3.5599E 03	
5.3905	3.5197E 03	3.5216E 03	
5.4639	3.4674E 03	3.4699E 03	
5.5373	3.4018E 03	3.4044E 03	
5.6105	3.3363E 03	3.3388E 03	
5.6836	3.2733E 03	3.2757E 03	
5.7566	3.2126E 03	3.2149E 03	
5.8295	3.1543E 03	3.1564E 03	
5.9023	3.0981E 03	3.1001E 03	
5.9749	3.0441E 03	3.0459E 03	
6.0475	2.9921E 03	2.9939E 03	
6.1199	2.9421E 03	2.9438E 03	

TABLE 5.C (cont.)

DATA ANALYSIS
EXPERIMENT OF 6/23/71, T=127 DEG K, RHO=1.116 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
6.1923	2.8941E 03	2.8957E 03	
6.2645	2.8479E 03	2.8494E 03	
6.3365	2.8035E 03	2.8049E 03	
6.4085	2.7608E 03	2.7621E 03	
6.4804	2.7198E 03	2.7210E 03	
6.5521	2.6803E 03	2.6815E 03	
6.6237	2.6423E 03	2.6434E 03	
6.6951	2.6058E 03	2.6069E 03	
6.7665	2.5706E 03	2.5716E 03	
6.8377	2.5368E 03	2.5377E 03	
6.9088	2.5042E 03	2.5051E 03	
6.9797	2.4727E 03	2.4736E 03	
7.0506	2.4424E 03	2.4432E 03	
7.1212	2.4131E 03	2.4139E 03	
7.1918	2.3848E 03	2.3855E 03	
7.2622	2.3574E 03	2.3581E 03	
7.3325	2.3309E 03	2.3315E 03	
7.4026	2.3051E 03	2.3057E 03	
7.4726	2.2801E 03	2.2807E 03	
7.5424	2.2558E 03	2.2563E 03	
7.6122	2.2320E 03	2.2326E 03	
7.6817	2.2088E 03	2.2094E 03	
7.7511	2.1861E 03	2.1867E 03	
7.8204	2.1639E 03	2.1644E 03	
7.8895	2.1420E 03	2.1425E 03	
7.9585	2.1205E 03	2.1209E 03	
8.0273	2.0992E 03	2.0996E 03	
8.0960	2.0781E 03	2.0785E 03	
8.1645	2.0572E 03	2.0576E 03	
8.2328	2.0364E 03	2.0368E 03	
8.3010	2.0156E 03	2.0160E 03	
8.3691	1.9948E 03	1.9952E 03	
8.4370	1.9740E 03	1.9744E 03	
8.5047	1.9530E 03	1.9534E 03	
8.5722	1.9320E 03	1.9323E 03	
8.6396	1.9107E 03	1.9110E 03	
8.7069	1.8891E 03	1.8895E 03	
8.7739	1.8673E 03	1.8676E 03	
8.8408	1.8451E 03	1.8454E 03	

TABLE 5.C (cont.)

DATA ANALYSIS
EXPERIMENT OF 6/23/71, T=127 DEG K, RHO=1.116 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
0.3	-0.9934	-12.0424	
0.4	-0.5938	-11.3291	
0.5	-0.1808	-10.5383	
0.6	0.1929	-9.7384	
0.7	0.4840	-8.9890	
0.8	0.6640	-8.3337	
0.9	0.7236	-7.7951	
1.0	0.6723	-7.3746	
1.1	0.5357	-7.0541	
1.2	0.3502	-6.8023	
1.3	0.1553	-6.5818	
1.4	-0.0128	-6.3569	
1.5	-0.1280	-6.1003	
1.6	-0.1777	-5.7977	
1.7	-0.1639	-5.4492	
1.8	-0.1021	-5.0686	
1.9	-0.0162	-4.6786	
2.0	0.0664	-4.3059	
2.1	0.1209	-3.9749	
2.2	0.1308	-3.7017	
2.3	0.0911	-3.4913	
2.4	0.0095	-3.3354	
2.5	-0.0950	-3.2144	
2.6	-0.1954	-3.1003	
2.7	-0.2619	-2.9624	
2.8	-0.2674	-2.7724	
2.9	-0.1925	-2.5103	
3.0	-0.0293	-2.1676	
3.1	0.2173	-1.7493	279.75
3.2	0.5297	-1.2734	155.57
3.3	0.8804	-0.7681	79.66
3.4	1.2365	-0.2675	24.87
3.5	1.5641	0.1936	-16.78
3.6	1.8334	0.5843	-48.74
3.7	2.0224	0.8824	-72.81
3.8	2.1200	1.0765	-90.02
3.9	2.1259	1.1667	-101.08
4.0	2.0502	1.1640	-106.52
4.1	1.9109	1.0873	-106.89
4.2	1.7304	0.9604	-102.84
4.3	1.5322	0.8080	-95.16
4.4	1.3375	0.6522	-84.93

TABLE 5.C (cont.)

DATA ANALYSIS
EXPERIMENT OF 6/23/71, T=127 DEG K, RHO=1.116 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
4.5	1.1628	0.5106	-73.42
4.6	1.0187	0.3941	-62.12
4.7	0.9094	0.3074	-52.38
4.8	0.8339	0.2495	-45.15
4.9	0.7872	0.2156	-40.64
5.0	0.7624	0.1986	-38.32
5.1	0.7521	0.1912	-37.26
5.2	0.7500	0.1875	-36.54
5.3	0.7518	0.1833	-35.50
5.4	0.7553	0.1769	-33.88
5.5	0.7603	0.1682	-31.76
5.6	0.7677	0.1587	-29.41
5.7	0.7790	0.1499	-27.14
5.8	0.7953	0.1431	-25.20
5.9	0.8171	0.1389	-23.66
6.0	0.8441	0.1366	-22.42
6.1	0.8749	0.1351	-21.29
6.2	0.9079	0.1325	-20.03
6.3	0.9409	0.1272	-18.44
6.4	0.9725	0.1181	-16.44
6.5	1.0012	0.1050	-14.07
6.6	1.0267	0.0884	-11.44
6.7	1.0490	0.0699	-8.76
6.8	1.0683	0.0512	-6.24
6.9	1.0851	0.0344	-4.10
7.0	1.0997	0.0211	-2.46
7.1	1.1120	0.0120	-1.38
7.2	1.1214	0.0075	-0.86
7.3	1.1274	0.0069	-0.78
7.4	1.1290	0.0091	-1.02
7.5	1.1255	0.0125	-1.42
7.6	1.1167	0.0158	-1.81
7.7	1.1028	0.0179	-2.08
7.8	1.0845	0.0182	-2.14
7.9	1.0632	0.0164	-1.97
8.0	1.0403	0.0129	-1.59
8.1	1.0176	0.0083	-1.04
8.2	0.9964	0.0031	-0.40
8.3	0.9779	-0.0021	0.27
8.4	0.9627	-0.0069	0.91
8.5	0.9510	-0.0114	1.51
8.6	0.9425	-0.0156	2.09

TABLE 5.C (cont.)

DATA ANALYSIS
EXPERIMENT OF 6/23/71, T=127 DEG K, RHC=1.116 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
8.7	0.9368	-0.0198	2.66
8.8	0.9334	-0.0241	3.24
8.9	0.9319	-0.0286	3.83
9.0	0.9320	-0.0330	4.42
9.1	0.9337	-0.0371	4.95
9.2	0.9373	-0.0403	5.34
9.3	0.9428	-0.0420	5.53
9.4	0.9503	-0.0418	5.47
9.5	0.9598	-0.0397	5.14
9.6	0.9709	-0.0355	4.56
9.7	0.9830	-0.0298	3.79
9.8	0.9953	-0.0231	2.91
9.9	1.0070	-0.0161	2.02
10.0	1.0173	-0.0097	1.21

TABLE 5.D

DATA ANALYSIS
EXPERIMENT OF 7/28/71, T=133 DEG K, RHO=1.054 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
0.0			-6.0000E-01
0.0772			-6.2411E-01
0.1543			-6.7915E-01
0.2315			-7.3645E-01
0.3086			-7.8115E-01
0.3857			-8.1017E-01
0.4629	2.1418E 03	2.1780E 03	-8.2353E-01
0.5400	2.0830E 03	2.1049E 03	-8.2858E-01
0.6171	2.0476E 03	2.0551E 03	-8.3162E-01
0.6942	2.0441E 03	2.0372E 03	-8.3180E-01
0.7713	2.0811E 03	2.0598E 03	-8.2835E-01
0.8483	2.1672E 03	2.1316E 03	-8.2040E-01
0.9254	2.3111E 03	2.2611E 03	-8.0707E-01
1.0024	2.5212E 03	2.4568E 03	-7.8721E-01
1.0794	2.8062E 03	2.7275E 03	-7.5981E-01
1.1564	3.1746E 03	3.0816E 03	-7.2351E-01
1.2334	3.6349E 03	3.5276E 03	-6.7699E-01
1.3104	4.2013E 03	4.0748E 03	-6.1864E-01
1.3873	4.9375E 03	4.7779E 03	-5.4237E-01
1.4642	5.9312E 03	5.7267E 03	-4.3802E-01
1.5411	7.2702E 03	7.0108E 03	-2.9409E-01
1.6179	9.0421E 03	8.7193E 03	-9.8597E-02
1.6947	1.1271E 04	1.0943E 04	1.6268E-01
1.7715	1.3104E 04	1.2895E 04	4.0754E-01
1.8482	1.4156E 04	1.4073E 04	5.7838E-01
1.9249	1.4310E 04	1.4358E 04	6.5377E-01
2.0016	1.3449E 04	1.3632E 04	6.1260E-01
2.0783	1.1573E 04	1.1811E 04	4.3425E-01
2.1549	9.8561E 03	1.0031E 04	2.4975E-01
2.2314	8.5520E 03	8.6796E 03	1.0974E-01
2.3079	7.5671E 03	7.6606E 03	5.0564E-03
2.3844	6.8084E 03	6.8798E 03	-7.3680E-02
2.4608	6.1830E 03	6.2434E 03	-1.3716E-01
2.5372	5.6214E 03	5.6706E 03	-1.9599E-01
2.6135	5.2030E 03	5.2356E 03	-2.3836E-01
2.6898	4.9315E 03	4.9503E 03	-2.6094E-01
2.7660	4.7887E 03	4.7961E 03	-2.6455E-01
2.8422	4.7563E 03	4.7547E 03	-2.5029E-01
2.9183	4.8163E 03	4.8076E 03	-2.2003E-01
2.9944	4.9506E 03	4.9368E 03	-1.7521E-01
3.0704	5.1412E 03	5.1240E 03	-1.1830E-01

TABLE 5.D (cont.)

DATA ANALYSIS
EXPERIMENT OF 7/28/71, T=133 DEG K, RHO=1.054 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
3.1463	5.3703E 03	5.3512E 03	-5.1657E-02
3.2222	5.6153E 03	5.5983E 03	2.1987E-02
3.2981	5.7898E 03	5.7803E 03	8.5702E-02
3.3738	5.8752E 03	5.8720E 03	1.3361E-01
3.4495	5.8822E 03	5.8843E 03	1.6675E-01
3.5252	5.8214E 03	5.8277E 03	1.8550E-01
3.6007	5.7034E 03	5.7132E 03	1.9155E-01
3.6762	5.5389E 03	5.5511E 03	1.8570E-01
3.7517	5.3383E 03	5.3523E 03	1.6978E-01
3.8270	5.1121E 03	5.1270E 03	1.4565E-01
3.9023	4.8707E 03	4.8859E 03	1.1542E-01
3.9775	4.6244E 03	4.6392E 03	8.0851E-02
4.0526	4.3835E 03	4.3973E 03	4.4926E-02
4.1277	4.1582E 03	4.1706E 03	1.0108E-02
4.2027	3.9587E 03	3.9690E 03	-2.0898E-02
4.2776	3.7911E 03	3.7995E 03	-4.5360E-02
4.3524	3.6530E 03	3.6598E 03	-6.3533E-02
4.4271	3.5416E 03	3.5469E 03	-7.5777E-02
4.5018	3.4539E 03	3.4579E 03	-8.2429E-02
4.5764	3.3870E 03	3.3899E 03	-8.3960E-02
4.6508	3.3379E 03	3.3399E 03	-8.0825E-02
4.7252	3.3038E 03	3.3051E 03	-7.3626E-02
4.7995	3.2818E 03	3.2826E 03	-6.2940E-02
4.8737	3.2691E 03	3.2695E 03	-4.9498E-02
4.9478	3.2629E 03	3.2631E 03	-3.3997E-02
5.0219	3.2603E 03	3.2604E 03	-1.7047E-02
5.0958	3.2586E 03	3.2587E 03	-2.2650E-06
5.1696	3.2551E 03	3.2553E 03	
5.2434	3.2469E 03	3.2474E 03	
5.3170	3.2314E 03	3.2322E 03	
5.3905	3.2058E 03	3.2071E 03	
5.4639	3.1676E 03	3.1694E 03	
5.5373	3.1164E 03	3.1185E 03	
5.6105	3.0646E 03	3.0666E 03	
5.6836	3.0144E 03	3.0163E 03	
5.7566	2.9658E 03	2.9676E 03	
5.8295	2.9186E 03	2.9203E 03	
5.9023	2.8728E 03	2.8744E 03	
5.9749	2.8284E 03	2.8299E 03	
6.0475	2.7853E 03	2.7868E 03	
6.1199	2.7435E 03	2.7449E 03	

TABLE 5.D (cont.)

DATA ANALYSIS
EXPERIMENT OF 7/28/71, T=133 DEG K, RHO=1.054 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
6.1923	2.7030E 03	2.7043E 03	
6.2645	2.6637E 03	2.6650E 03	
6.3365	2.6255E 03	2.6268E 03	
6.4085	2.5885E 03	2.5897E 03	
6.4804	2.5526E 03	2.5537E 03	
6.5521	2.5177E 03	2.5188E 03	
6.6237	2.4839E 03	2.4849E 03	
6.6951	2.4510E 03	2.4519E 03	
6.7665	2.4190E 03	2.4199E 03	
6.8377	2.3879E 03	2.3888E 03	
6.9088	2.3577E 03	2.3585E 03	
6.9797	2.3283E 03	2.3291E 03	
7.0506	2.2996E 03	2.3004E 03	
7.1212	2.2717E 03	2.2725E 03	
7.1918	2.2445E 03	2.2452E 03	
7.2622	2.2180E 03	2.2187E 03	
7.3325	2.1921E 03	2.1927E 03	
7.4026	2.1667E 03	2.1674E 03	
7.4726	2.1420E 03	2.1426E 03	
7.5424	2.1177E 03	2.1183E 03	
7.6122	2.0939E 03	2.0945E 03	
7.6817	2.0706E 03	2.0711E 03	
7.7511	2.0476E 03	2.0482E 03	
7.8204	2.0251E 03	2.0256E 03	
7.8895	2.0029E 03	2.0034E 03	
7.9585	1.9810E 03	1.9815E 03	
8.0273	1.9594E 03	1.9598E 03	
8.0960	1.9380E 03	1.9384E 03	
8.1645	1.9168E 03	1.9173E 03	
8.2328	1.8958E 03	1.8963E 03	
8.3010	1.8750E 03	1.8754E 03	
8.3691	1.8543E 03	1.8547E 03	
8.4370	1.8337E 03	1.8341E 03	
8.5047	1.8131E 03	1.8135E 03	
8.5722	1.7925E 03	1.7929E 03	
8.6396	1.7720E 03	1.7724E 03	
8.7069	1.7514E 03	1.7518E 03	
8.7739	1.7308E 03	1.7311E 03	
8.8408	1.7101E 03	1.7104E 03	

TABLE 5.D (cont.)

DATA ANALYSIS
EXPERIMENT OF 7/28/71, T=133 DEG K, RHO=1.054 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
0.3	-0.5403	-10.9991	
0.4	-0.3201	-10.4481	
0.5	-0.1124	-9.8460	
0.6	0.0470	-9.2477	
0.7	0.1319	-8.6984	
0.8	0.1310	-8.2270	
0.9	0.0498	-7.8431	
1.0	-0.0907	-7.5369	
1.1	-0.2579	-7.2831	
1.2	-0.4142	-7.0476	
1.3	-0.5239	-6.7947	
1.4	-0.5605	-6.4954	
1.5	-0.5115	-6.1331	
1.6	-0.3806	-5.7068	
1.7	-0.1877	-5.2318	
1.8	0.0356	-4.7359	
1.9	0.2512	-4.2543	
2.0	0.4223	-3.8225	
2.1	0.5198	-3.4691	
2.2	0.5283	-3.2100	
2.3	0.4485	-3.0451	
2.4	0.2981	-2.9579	
2.5	0.1081	-2.9184	
2.6	-0.0818	-2.8875	
2.7	-0.2304	-2.8247	
2.8	-0.3018	-2.6941	
2.9	-0.2711	-2.4712	
3.0	-0.1290	-2.1469	
3.1	0.1174	-1.7286	366.47
3.2	0.4456	-1.2391	176.88
3.3	0.8216	-0.7130	83.10
3.4	1.2052	-0.1910	19.56
3.5	1.5563	0.2864	-27.05
3.6	1.8406	0.6845	-61.85
3.7	2.0340	0.9793	-87.35
3.8	2.1251	1.1598	-104.95
3.9	2.1162	1.2286	-115.56
4.0	2.0209	1.2003	-119.88
4.1	1.8614	1.0980	-118.55
4.2	1.6643	0.9490	-112.31
4.3	1.4562	0.7806	-102.15
4.4	1.2600	0.6164	-89.35

TABLE 5.D (cont.)

DATA ANALYSIS
EXPERIMENT OF 7/28/71, T=133 DEG K, RHO=1.054 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
4.5	1.0925	0.4735	-75.55
4.6	0.9630	0.3614	-62.56
4.7	0.8734	0.2823	-51.93
4.8	0.8198	0.2328	-44.42
4.9	0.7944	0.2054	-39.78
5.0	0.7878	0.1914	-37.01
5.1	0.7910	0.1828	-34.96
5.2	0.7971	0.1739	-32.73
5.3	0.8021	0.1617	-29.94
5.4	0.8047	0.1461	-26.65
5.5	0.8060	0.1291	-23.21
5.6	0.8084	0.1134	-20.11
5.7	0.8145	0.1020	-17.79
5.8	0.8263	0.0964	-16.51
5.9	0.8445	0.0969	-16.22
6.0	0.8687	0.1021	-16.63
6.1	0.8970	0.1093	-17.28
6.2	0.9270	0.1154	-17.68
6.3	0.9563	0.1177	-17.46
6.4	0.9829	0.1141	-16.42
6.5	1.0057	0.1043	-14.56
6.6	1.0243	0.0888	-12.07
6.7	1.0393	0.0699	-9.26
6.8	1.0518	0.0501	-6.49
6.9	1.0629	0.0323	-4.11
7.0	1.0734	0.0188	-2.34
7.1	1.0834	0.0109	-1.34
7.2	1.0927	0.0089	-1.09
7.3	1.1002	0.0122	-1.48
7.4	1.1047	0.0191	-2.32
7.5	1.1052	0.0276	-3.37
7.6	1.1008	0.0359	-4.41
7.7	1.0914	0.0424	-5.27
7.8	1.0774	0.0462	-5.82
7.9	1.0599	0.0469	-6.02
8.0	1.0405	0.0450	-5.88
8.1	1.0208	0.0413	-5.49
8.2	1.0024	0.0365	-4.93
8.3	0.9862	0.0314	-4.30
8.4	0.9731	0.0265	-3.67
8.5	0.9631	0.0219	-3.07
8.6	0.9559	0.0177	-2.48

TABLE 5.D (cont.)

DATA ANALYSIS
EXPERIMENT OF 7/28/71, T=133 DEG K, RHO=1.054 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
8.7	0.9510	0.0134	-1.89
8.8	0.9480	0.0089	-1.25
8.9	0.9463	0.0040	-0.56
9.0	0.9458	-0.0011	0.16
9.1	0.9466	-0.0061	0.85
9.2	0.9489	-0.0103	1.43
9.3	0.9529	-0.0131	1.82
9.4	0.9589	-0.0142	1.96
9.5	0.9669	-0.0132	1.81
9.6	0.9764	-0.0103	1.40
9.7	0.9870	-0.0058	0.78
9.8	0.9977	-0.0004	0.06
9.9	1.0077	0.0050	-0.66
10.0	1.0162	0.0098	-1.29

TABLE 5.E

DATA ANALYSIS
EXPERIMENT OF 8/4/71, T=127 DEG K, RHO=1.116 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
0.0			-7.0000E-01
0.0772			-7.0922E-01
0.1543			-7.3282E-01
0.2315			-7.6218E-01
0.3086			-7.8989E-01
0.3857			-8.1180E-01
0.4629	2.4295E 03	2.5069E 03	-8.2604E-01
0.5400	2.2975E 03	2.3526E 03	-8.3600E-01
0.6171	2.1956E 03	2.2283E 03	-8.4378E-01
0.6942	2.1373E 03	2.1475E 03	-8.4841E-01
0.7713	2.1360E 03	2.1238E 03	-8.4882E-01
0.8483	2.2052E 03	2.1704E 03	-8.4392E-01
0.9254	2.3581E 03	2.3010E 03	-8.3247E-01
1.0024	2.6083E 03	2.5287E 03	-8.1314E-01
1.0794	2.9690E 03	2.8671E 03	-7.8455E-01
1.1564	3.4536E 03	3.3293E 03	-7.4497E-01
1.2334	4.0753E 03	3.9287E 03	-6.9270E-01
1.3104	4.8057E 03	4.6547E 03	-6.2765E-01
1.3873	5.6597E 03	5.4764E 03	-5.5183E-01
1.4642	6.8199E 03	6.5752E 03	-4.4863E-01
1.5411	8.4728E 03	8.1419E 03	-2.9947E-01
1.6179	1.0805E 04	1.0366E 04	-8.3880E-02
1.6947	1.3910E 04	1.3442E 04	2.2097E-01
1.7715	1.6591E 04	1.6277E 04	5.1885E-01
1.8482	1.8233E 04	1.8094E 04	7.3480E-01
1.9249	1.8596E 04	1.8649E 04	8.3654E-01
2.0016	1.7437E 04	1.7698E 04	7.9033E-01
2.0783	1.4708E 04	1.5054E 04	5.6298E-01
2.1549	1.2253E 04	1.2499E 04	3.3090E-01
2.2314	1.0460E 04	1.0631E 04	1.6145E-01
2.3079	9.1611E 03	9.2819E 03	4.0489E-02
2.3844	8.1893E 03	8.2806E 03	-4.7403E-02
2.4608	7.3778E 03	7.4585E 03	-1.1959E-01
2.5372	6.6070E 03	6.6741E 03	-1.9229E-01
2.6135	6.0501E 03	6.0921E 03	-2.4405E-01
2.6898	5.7115E 03	5.7339E 03	-2.6993E-01
2.7660	5.5501E 03	5.5577E 03	-2.7316E-01
2.8422	5.5247E 03	5.5220E 03	-2.5749E-01
2.9183	5.5944E 03	5.5854E 03	-2.2741E-01
2.9944	5.7183E 03	5.7069E 03	-1.8745E-01
3.0704	5.8523E 03	5.8420E 03	-1.4386E-01

TABLE 5.E (cont.)

DATA ANALYSIS
EXPERIMENT OF 8/4/71, T=127 DEG K, RHO=1.116 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
3.1463	5.9739E 03	5.9649E 03	-1.0066E-01
3.2222	6.0791E 03	6.0718E 03	-5.8444E-02
3.2981	6.1643E 03	6.1588E 03	-1.8168E-02
3.3738	6.2256E 03	6.2221E 03	1.8983E-02
3.4495	6.2595E 03	6.2582E 03	5.2571E-02
3.5252	6.2621E 03	6.2631E 03	8.1223E-02
3.6007	6.2298E 03	6.2333E 03	1.0381E-01
3.6762	6.1590E 03	6.1650E 03	1.1907E-01
3.7517	6.0460E 03	6.0547E 03	1.2569E-01
3.8270	5.8872E 03	5.8988E 03	1.2211E-01
3.9023	5.6791E 03	5.6936E 03	1.0719E-01
3.9775	5.4181E 03	5.4355E 03	7.9141E-02
4.0526	5.1256E 03	5.1418E 03	4.0839E-02
4.1277	4.8702E 03	4.8838E 03	7.5369E-03
4.2027	4.6532E 03	4.6644E 03	-1.9296E-02
4.2776	4.4711E 03	4.4803E 03	-4.0431E-02
4.3524	4.3205E 03	4.3279E 03	-5.5908E-02
4.4271	4.1982E 03	4.2040E 03	-6.6023E-02
4.5018	4.1008E 03	4.1053E 03	-7.0958E-02
4.5764	4.0250E 03	4.0284E 03	-7.1642E-02
4.6508	3.9675E 03	3.9700E 03	-6.8343E-02
4.7252	3.9251E 03	3.9269E 03	-6.1389E-02
4.7995	3.8945E 03	3.8958E 03	-5.1895E-02
4.8737	3.8726E 03	3.8735E 03	-4.0060E-02
4.9478	3.8561E 03	3.8568E 03	-2.7122E-02
5.0219	3.8418E 03	3.8424E 03	-1.3361E-02
5.0958	3.8266E 03	3.8274E 03	-1.6689E-06
5.1696	3.8075E 03	3.8085E 03	
5.2434	3.7812E 03	3.7825E 03	
5.3170	3.7448E 03	3.7466E 03	
5.3905	3.6951E 03	3.6975E 03	
5.4639	3.6365E 03	3.6388E 03	
5.5373	3.5791E 03	3.5814E 03	
5.6105	3.5232E 03	3.5253E 03	
5.6836	3.4686E 03	3.4707E 03	
5.7566	3.4154E 03	3.4174E 03	
5.8295	3.3636E 03	3.3655E 03	
5.9023	3.3130E 03	3.3149E 03	
5.9749	3.2637E 03	3.2655E 03	
6.0475	3.2157E 03	3.2173E 03	
6.1199	3.1688E 03	3.1704E 03	

TABLE 5.E (cont.)

DATA ANALYSIS
EXPERIMENT OF 8/4/71, T=127 DEG K, RHO=1.116 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
6.1923	3.1231E 03	3.1246E 03	
6.2645	3.0785E 03	3.0800E 03	
6.3365	3.0351E 03	3.0365E 03	
6.4085	2.9927E 03	2.9940E 03	
6.4804	2.9513E 03	2.9526E 03	
6.5521	2.9109E 03	2.9122E 03	
6.6237	2.8715E 03	2.8727E 03	
6.6951	2.8331E 03	2.8342E 03	
6.7665	2.7955E 03	2.7966E 03	
6.8377	2.7589E 03	2.7599E 03	
6.9088	2.7231E 03	2.7241E 03	
6.9797	2.6881E 03	2.6891E 03	
7.0506	2.6539E 03	2.6548E 03	
7.1212	2.6204E 03	2.6213E 03	
7.1918	2.5877E 03	2.5886E 03	
7.2622	2.5557E 03	2.5565E 03	
7.3325	2.5244E 03	2.5252E 03	
7.4026	2.4937E 03	2.4945E 03	
7.4726	2.4636E 03	2.4643E 03	
7.5424	2.4341E 03	2.4348E 03	
7.6122	2.4052E 03	2.4059E 03	
7.6817	2.3768E 03	2.3774E 03	
7.7511	2.3489E 03	2.3495E 03	
7.8204	2.3215E 03	2.3221E 03	
7.8895	2.2945E 03	2.2951E 03	
7.9585	2.2680E 03	2.2685E 03	
8.0273	2.2418E 03	2.2424E 03	
8.0960	2.2161E 03	2.2166E 03	
8.1645	2.1906E 03	2.1911E 03	
8.2328	2.1655E 03	2.1660E 03	
8.3010	2.1407E 03	2.1412E 03	
8.3691	2.1162E 03	2.1167E 03	
8.4370	2.0919E 03	2.0924E 03	
8.5047	2.0678E 03	2.0683E 03	
8.5722	2.0440E 03	2.0444E 03	
8.6396	2.0203E 03	2.0207E 03	
8.7069	1.9968E 03	1.9972E 03	
8.7739	1.9733E 03	1.9738E 03	
8.8408	1.9501E 03	1.9504E 03	

TABLE 5.E (cont.)

DATA ANALYSIS
EXPERIMENT OF 8/4/71, T=127 DEG K, RHO=1.116 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
0.3	-1.2127	-12.3175	
0.4	-0.8621	-11.6716	
0.5	-0.4941	-10.9463	
0.6	-0.1519	-10.1987	
0.7	0.1285	-9.4791	
0.8	0.3234	-8.8251	
0.9	0.4241	-8.2574	
1.0	0.4372	-7.7797	
1.1	0.3815	-7.3806	
1.2	0.2841	-7.0381	
1.3	0.1745	-6.7259	
1.4	0.0787	-6.4188	
1.5	0.0150	-6.0987	
1.6	-0.0092	-5.7570	
1.7	0.0028	-5.3963	
1.8	0.0379	-5.0281	
1.9	0.0779	-4.6701	
2.0	0.1036	-4.3409	
2.1	0.0994	-4.0556	
2.2	0.0579	-3.8214	
2.3	-0.0186	-3.6355	
2.4	-0.1173	-3.4848	
2.5	-0.2174	-3.3478	
2.6	-0.2935	-3.1980	
2.7	-0.3198	-3.0090	
2.8	-0.2759	-2.7590	
2.9	-0.1496	-2.4355	
3.0	0.0596	-2.0374	
3.1	0.3404	-1.5760	219.46
3.2	0.6710	-1.0737	121.36
3.3	1.0219	-0.5604	55.53
3.4	1.3608	-0.0696	6.34
3.5	1.6568	0.3668	-31.78
3.6	1.8846	0.7228	-61.43
3.7	2.0283	0.9816	-84.02
3.8	2.0823	1.1374	-100.36
3.9	2.0517	1.1956	-111.00
4.0	1.9508	1.1706	-116.40
4.1	1.7996	1.0836	-117.05
4.2	1.6212	0.9585	-113.62
4.3	1.4378	0.8186	-107.00
4.4	1.2676	0.6835	-98.40

TABLE 5.E (cont.)

DATA ANALYSIS
EXPERIMENT OF 8/4/71, T=127 DEG K, RHO=1.116 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
4.5	1.1235	0.5668	-89.19
4.6	1.0118	0.4760	-80.74
4.7	0.9328	0.4120	-74.03
4.8	0.8820	0.3710	-69.32
4.9	0.8520	0.3460	-66.18
5.0	0.8344	0.3292	-63.73
5.1	0.8220	0.3137	-61.05
5.2	0.8096	0.2947	-57.46
5.3	0.7950	0.2700	-52.70
5.4	0.7785	0.2404	-46.89
5.5	0.7628	0.2083	-40.51
5.6	0.7513	0.1775	-34.23
5.7	0.7477	0.1514	-28.72
5.8	0.7548	0.1325	-24.50
5.9	0.7738	0.1218	-21.75
6.0	0.8042	0.1187	-20.29
6.1	0.8437	0.1211	-19.68
6.2	0.8890	0.1260	-19.41
6.3	0.9365	0.1302	-19.01
6.4	0.9825	0.1310	-18.18
6.5	1.0239	0.1266	-16.77
6.6	1.0587	0.1165	-14.80
6.7	1.0859	0.1012	-12.42
6.8	1.1056	0.0823	-9.82
6.9	1.1184	0.0617	-7.21
7.0	1.1252	0.0417	-4.80
7.1	1.1271	0.0240	-2.74
7.2	1.1251	0.0098	-1.11
7.3	1.1198	-0.0005	0.06
7.4	1.1116	-0.0071	0.81
7.5	1.1010	-0.0105	1.20
7.6	1.0882	-0.0115	1.34
7.7	1.0735	-0.0112	1.32
7.8	1.0577	-0.0102	1.22
7.9	1.0414	-0.0090	1.09
8.0	1.0253	-0.0078	0.96
8.1	1.0101	-0.0067	0.84
8.2	0.9964	-0.0059	0.75
8.3	0.9845	-0.0053	0.68
8.4	0.9743	-0.0052	0.68
8.5	0.9657	-0.0059	0.77
8.6	0.9584	-0.0075	0.99

TABLE 5.E (cont.)

DATA ANALYSIS
EXPERIMENT OF 8/4/71, T=127 DEG K, RHO=1.116 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
8.7	0.9520	-0.0105	1.39
8.8	0.9465	-0.0147	1.96
8.9	0.9418	-0.0200	2.67
9.0	0.9383	-0.0260	3.47
9.1	0.9364	-0.0320	4.26
9.2	0.9367	-0.0371	4.94
9.3	0.9397	-0.0407	5.38
9.4	0.9456	-0.0421	5.53
9.5	0.9543	-0.0410	5.34
9.6	0.9655	-0.0375	4.83
9.7	0.9784	-0.0318	4.07
9.8	0.9920	-0.0248	3.13
9.9	1.0053	-0.0171	2.14
10.0	1.0172	-0.0096	1.19

TABLE 5.F

DATA ANALYSIS
EXPERIMENT OF 8/24/71, T=127 DEG K, RHO=1.098 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
0.0			-7.5000E-01
0.0772			-7.5208E-01
0.1543			-7.5801E-01
0.2315			-7.6699E-01
0.3086			-7.7793E-01
0.3857			-7.8971E-01
0.4629	2.3718E 03	2.4473E 03	-8.0132E-01
0.5400	2.2414E 03	2.2973E 03	-8.1258E-01
0.6171	2.1353E 03	2.1715E 03	-8.2177E-01
0.6942	2.0650E 03	2.0815E 03	-8.2792E-01
0.7713	2.0424E 03	2.0393E 03	-8.3001E-01
0.8483	2.0794E 03	2.0565E 03	-8.2685E-01
0.9254	2.1875E 03	2.1450E 03	-8.1718E-01
1.0024	2.3785E 03	2.3164E 03	-7.9969E-01
1.0794	2.6642E 03	2.5824E 03	-7.7291E-01
1.1564	3.0562E 03	2.9548E 03	-7.3524E-01
1.2334	3.5661E 03	3.4452E 03	-6.8488E-01
1.3104	4.1931E 03	4.0568E 03	-6.2057E-01
1.3873	4.9773E 03	4.8083E 03	-5.3975E-01
1.4642	6.0326E 03	5.8142E 03	-4.2985E-01
1.5411	7.4746E 03	7.1927E 03	-2.7636E-01
1.6179	9.4186E 03	9.0611E 03	-6.3866E-02
1.6947	1.1909E 04	1.1539E 04	2.2469E-01
1.7715	1.4004E 04	1.3762E 04	5.0070E-01
1.8482	1.5253E 04	1.5150E 04	6.9682E-01
1.9249	1.5500E 04	1.5545E 04	7.8822E-01
2.0016	1.4587E 04	1.4788E 04	7.4750E-01
2.0783	1.2491E 04	1.2761E 04	5.4745E-01
2.1549	1.0510E 04	1.0716E 04	3.3328E-01
2.2314	8.9601E 03	9.1136E 03	1.6334E-01
2.3079	7.7744E 03	7.8863E 03	3.2758E-02
2.3844	6.8865E 03	6.9668E 03	-6.4001E-02
2.4608	6.2303E 03	6.2876E 03	-1.3322E-01
2.5372	5.7386E 03	5.7813E 03	-1.8190E-01
2.6135	5.3609E 03	5.3920E 03	-2.1716E-01
2.6898	5.0857E 03	5.1067E 03	-2.3890E-01
2.7660	4.9057E 03	4.9178E 03	-2.4730E-01
2.8422	4.8134E 03	4.8178E 03	-2.4232E-01
2.9183	4.8013E 03	4.7990E 03	-2.2401E-01
2.9944	4.8619E 03	4.8539E 03	-1.9251E-01
3.0704	4.9878E 03	4.9751E 03	-1.4806E-01

TABLE 5.F (cont.)

DATA ANALYSIS
EXPERIMENT OF 8/24/71, T=127 DEG K, RHO=1.098 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
3.1463	5.1717E 03	5.1551E 03	-9.1130E-02
3.2222	5.4005E 03	5.3838E 03	-2.2449E-02
3.2981	5.5780E 03	5.5679E 03	4.0341E-02
3.3738	5.6783E 03	5.6737E 03	8.9834E-02
3.4495	5.7096E 03	5.7097E 03	1.2645E-01
3.5252	5.6802E 03	5.6842E 03	1.5082E-01
3.6007	5.5983E 03	5.6055E 03	1.6363E-01
3.6762	5.4721E 03	5.4817E 03	1.6614E-01
3.7517	5.3096E 03	5.3211E 03	1.5873E-01
3.8270	5.1191E 03	5.1319E 03	1.4278E-01
3.9023	4.9085E 03	4.9220E 03	1.2005E-01
3.9775	4.6859E 03	4.6995E 03	9.2160E-02
4.0526	4.4591E 03	4.4725E 03	6.0307E-02
4.1277	4.2362E 03	4.2488E 03	2.6689E-02
4.2027	4.0250E 03	4.0364E 03	-6.3159E-03
4.2776	3.8332E 03	3.8431E 03	-3.6942E-02
4.3524	3.6687E 03	3.6767E 03	-6.2427E-02
4.4271	3.5391E 03	3.5449E 03	-7.9848E-02
4.5018	3.4521E 03	3.4554E 03	-8.6807E-02
4.5764	3.3940E 03	3.3966E 03	-8.5517E-02
4.6508	3.3468E 03	3.3489E 03	-8.1611E-02
4.7252	3.3094E 03	3.3110E 03	-7.5509E-02
4.7995	3.2804E 03	3.2816E 03	-6.6919E-02
4.8737	3.2587E 03	3.2595E 03	-5.6361E-02
4.9478	3.2429E 03	3.2435E 03	-4.4314E-02
5.0219	3.2319E 03	3.2323E 03	-3.0543E-02
5.0958	3.2244E 03	3.2247E 03	-1.5712E-02
5.1696	3.2193E 03	3.2194E 03	-2.0862E-06
5.2434	3.2152E 03	3.2154E 03	
5.3170	3.2111E 03	3.2113E 03	
5.3905	3.2058E 03	3.2061E 03	
5.4639	3.1980E 03	3.1984E 03	
5.5373	3.1867E 03	3.1872E 03	
5.6105	3.1706E 03	3.1713E 03	
5.6836	3.1487E 03	3.1496E 03	
5.7566	3.1197E 03	3.1209E 03	
5.8295	3.0826E 03	3.0841E 03	
5.9023	3.0363E 03	3.0382E 03	
5.9749	2.9796E 03	2.9819E 03	
6.0475	2.9148E 03	2.9171E 03	
6.1199	2.8521E 03	2.8542E 03	

TABLE 5.F (cont.)

DATA ANALYSIS
EXPERIMENT OF 8/24/71, T=127 DEG K, RHO=1.098 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
6.1923	2.7923E 03	2.7943E 03	
6.2645	2.7354E 03	2.7372E 03	
6.3365	2.6811E 03	2.6828E 03	
6.4085	2.6294E 03	2.6311E 03	
6.4804	2.5803E 03	2.5818E 03	
6.5521	2.5335E 03	2.5349E 03	
6.6237	2.4890E 03	2.4903E 03	
6.6951	2.4466E 03	2.4479E 03	
6.7665	2.4064E 03	2.4075E 03	
6.8377	2.3681E 03	2.3692E 03	
6.9088	2.3317E 03	2.3327E 03	
6.9797	2.2971E 03	2.2980E 03	
7.0506	2.2642E 03	2.2651E 03	
7.1212	2.2328E 03	2.2337E 03	
7.1918	2.2030E 03	2.2038E 03	
7.2622	2.1745E 03	2.1752E 03	
7.3325	2.1474E 03	2.1480E 03	
7.4026	2.1214E 03	2.1220E 03	
7.4726	2.0966E 03	2.0972E 03	
7.5424	2.0728E 03	2.0733E 03	
7.6122	2.0499E 03	2.0504E 03	
7.6817	2.0278E 03	2.0283E 03	
7.7511	2.0065E 03	2.0070E 03	
7.8204	1.9859E 03	1.9864E 03	
7.8895	1.9659E 03	1.9663E 03	
7.9585	1.9463E 03	1.9467E 03	
8.0273	1.9272E 03	1.9276E 03	
8.0960	1.9083E 03	1.9087E 03	
8.1645	1.8898E 03	1.8901E 03	
8.2328	1.8713E 03	1.8717E 03	
8.3010	1.8530E 03	1.8534E 03	
8.3691	1.8347E 03	1.8350E 03	
8.4370	1.8163E 03	1.8166E 03	
8.5047	1.7977E 03	1.7981E 03	
8.5722	1.7789E 03	1.7793E 03	
8.6396	1.7598E 03	1.7602E 03	
8.7069	1.7404E 03	1.7407E 03	
8.7739	1.7205E 03	1.7208E 03	
8.8408	1.7001E 03	1.7004E 03	

TABLE 5.F (cont.)

DATA ANALYSIS
EXPERIMENT OF 8/24/71, T=127 DEG K, RHO=1.098 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
0.3	-0.4132	-10.8879	
0.4	-0.1138	-10.2638	
0.5	0.1780	-9.5844	
0.6	0.4165	-8.9134	
0.7	0.5670	-8.3038	
0.8	0.6114	-7.7904	
0.9	0.5512	-7.3856	
1.0	0.4063	-7.0801	
1.1	0.2107	-6.8468	
1.2	0.0056	-6.6476	
1.3	-0.1687	-6.4425	
1.4	-0.2802	-6.1976	
1.5	-0.3114	-5.8920	
1.6	-0.2614	-5.5216	
1.7	-0.1464	-5.0990	
1.8	0.0050	-4.6508	
1.9	0.1573	-4.2110	
2.0	0.2756	-3.8141	
2.1	0.3328	-3.4877	
2.2	0.3151	-3.2465	
2.3	0.2247	-3.0891	
2.4	0.0797	-2.9981	
2.5	-0.0889	-2.9429	
2.6	-0.2433	-2.8855	
2.7	-0.3452	-2.7871	
2.8	-0.3629	-2.6154	
2.9	-0.2768	-2.3502	
3.0	-0.0832	-1.9871	
3.1	0.2057	-1.5383	271.47
3.2	0.5632	-1.0305	132.10
3.3	0.9529	-0.5004	53.61
3.4	1.3343	0.0108	-1.04
3.5	1.6691	0.4644	-41.41
3.6	1.9265	0.8292	-71.48
3.7	2.0872	1.0857	-93.26
3.8	2.1452	1.2283	-107.95
3.9	2.1075	1.2644	-116.36
4.0	1.9915	1.2124	-119.18
4.1	1.8217	1.0973	-117.12
4.2	1.6247	0.9470	-111.04
4.3	1.4258	0.7873	-102.03
4.4	1.2451	0.6391	-91.45

TABLE 5.F (cont.)

DATA ANALYSIS
EXPERIMENT OF 8/24/71, T=127 DEG K, RHO=1.098 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
4.5	1.0960	0.5159	-80.79
4.6	0.9840	0.4235	-71.48
4.7	0.9081	0.3610	-64.36
4.8	0.8622	0.3225	-59.50
4.9	0.8378	0.2995	-56.18
5.0	0.8256	0.2832	-53.36
5.1	0.8180	0.2667	-50.11
5.2	0.8101	0.2456	-45.87
5.3	0.8000	0.2189	-40.59
5.4	0.7884	0.1880	-34.60
5.5	0.7779	0.1563	-28.48
5.6	0.7719	0.1273	-22.90
5.7	0.7731	0.1042	-18.39
5.8	0.7836	0.0886	-15.24
5.9	0.8034	0.0804	-13.39
6.0	0.8314	0.0779	-12.49
6.1	0.8653	0.0784	-12.06
6.2	0.9020	0.0789	-11.62
6.3	0.9387	0.0767	-10.82
6.4	0.9731	0.0701	-9.49
6.5	1.0038	0.0587	-7.66
6.6	1.0300	0.0434	-5.47
6.7	1.0521	0.0259	-3.17
6.8	1.0705	0.0084	-1.00
6.9	1.0859	-0.0069	0.80
7.0	1.0987	-0.0183	2.10
7.1	1.1090	-0.0250	2.83
7.2	1.1164	-0.0270	3.04
7.3	1.1203	-0.0252	2.82
7.4	1.1201	-0.0207	2.33
7.5	1.1154	-0.0153	1.73
7.6	1.1060	-0.0102	1.17
7.7	1.0923	-0.0066	0.77
7.8	1.0751	-0.0050	0.59
7.9	1.0556	-0.0055	0.66
8.0	1.0350	-0.0078	0.96
8.1	1.0146	-0.0115	1.43
8.2	0.9955	-0.0160	2.03
8.3	0.9783	-0.0209	2.68
8.4	0.9636	-0.0257	3.34
8.5	0.9515	-0.0302	3.96
8.6	0.9421	-0.0342	4.53

TABLE 5.F (cont.)

DATA ANALYSIS
EXPERIMENT OF 8/24/71, T=127 DEG K, RHO=1.098 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
8.7	0.9354	-0.0375	5.00
8.8	0.9313	-0.0400	5.35
8.9	0.9299	-0.0414	5.54
9.0	0.9313	-0.0415	5.54
9.1	0.9356	-0.0400	5.31
9.2	0.9425	-0.0368	4.87
9.3	0.9518	-0.0321	4.22
9.4	0.9629	-0.0263	3.42
9.5	0.9750	-0.0197	2.55
9.6	0.9873	-0.0133	1.69
9.7	0.9987	-0.0075	0.94
9.8	1.0085	-0.0029	0.37
9.9	1.0162	0.0000	-0.00
10.0	1.0215	0.0013	-0.16

TABLE 5.G

DATA ANALYSIS
EXPERIMENT OF 9/28/71(I), T=133 DEG K, RHO=1.054 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
0.0			-6.0000E-01
0.0772			-6.1444E-01
0.1543			-6.5070E-01
0.2315			-6.9443E-01
0.3086			-7.3434E-01
0.3857			-7.6504E-01
0.4629	2.7093E 03	2.8053E 03	-7.8460E-01
0.5400	2.5431E 03	2.6148E 03	-7.9819E-01
0.6171	2.4058E 03	2.4533E 03	-8.0953E-01
0.6942	2.3122E 03	2.3354E 03	-8.1734E-01
0.7713	2.2768E 03	2.2756E 03	-8.2050E-01
0.8483	2.3140E 03	2.2885E 03	-8.1763E-01
0.9254	2.4384E 03	2.3886E 03	-8.0726E-01
1.0024	2.6645E 03	2.5904E 03	-7.8793E-01
1.0794	3.0068E 03	2.9084E 03	-7.5782E-01
1.1564	3.4795E 03	3.3570E 03	-7.1509E-01
1.2334	4.0972E 03	3.9505E 03	-6.5767E-01
1.3104	4.8596E 03	4.6950E 03	-5.8405E-01
1.3873	5.7834E 03	5.5906E 03	-4.9323E-01
1.4642	6.9462E 03	6.7144E 03	-3.7641E-01
1.5411	8.4270E 03	8.1470E 03	-2.2421E-01
1.6179	1.0304E 04	9.9685E 03	-2.5901E-02
1.6947	1.2604E 04	1.2261E 04	2.3076E-01
1.7715	1.4576E 04	1.4343E 04	4.7914E-01
1.8482	1.5797E 04	1.5693E 04	6.6224E-01
1.9249	1.6056E 04	1.6099E 04	7.5160E-01
2.0016	1.5147E 04	1.5351E 04	7.1580E-01
2.0783	1.3003E 04	1.3279E 04	5.2326E-01
2.1549	1.0993E 04	1.1200E 04	3.1829E-01
2.2314	9.4452E 03	9.5969E 03	1.5885E-01
2.3079	8.2820E 03	8.3908E 03	3.9773E-02
2.3844	7.4243E 03	7.5014E 03	-4.5911E-02
2.4608	6.7935E 03	6.8490E 03	-1.0595E-01
2.5372	6.3111E 03	6.3538E 03	-1.4816E-01
2.6135	5.9248E 03	5.9575E 03	-1.7994E-01
2.6898	5.6271E 03	5.6507E 03	-2.0129E-01
2.7660	5.4139E 03	5.4294E 03	-2.1180E-01
2.8422	5.2812E 03	5.2893E 03	-2.1106E-01
2.9183	5.2249E 03	5.2265E 03	-1.9867E-01
2.9944	5.2411E 03	5.2368E 03	-1.7426E-01
3.0704	5.3257E 03	5.3162E 03	-1.3751E-01

TABLE 5.G (cont.)

DATA ANALYSIS
EXPERIMENT OF 9/28/71(I), T=133 DEG K, RHO=1.054 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
3.1463	5.4748E 03	5.4606E 03	-8.8207E-02
3.2222	5.6781E 03	5.6632E 03	-2.6401E-02
3.2981	5.8318E 03	5.8234E 03	3.0033E-02
3.3738	5.9075E 03	5.9047E 03	7.3498E-02
3.4495	5.9144E 03	5.9162E 03	1.0455E-01
3.5252	5.8617E 03	5.8672E 03	1.2395E-01
3.6007	5.7584E 03	5.7669E 03	1.3258E-01
3.6762	5.6136E 03	5.6244E 03	1.3179E-01
3.7517	5.4364E 03	5.4487E 03	1.2224E-01
3.8270	5.2357E 03	5.2490E 03	1.0544E-01
3.9023	5.0205E 03	5.0341E 03	8.3357E-02
3.9775	4.7996E 03	4.8130E 03	5.7843E-02
4.0526	4.5819E 03	4.5945E 03	3.0312E-02
4.1277	4.3761E 03	4.3875E 03	3.4409E-03
4.2027	4.1910E 03	4.2007E 03	-2.0883E-02
4.2776	4.0327E 03	4.0407E 03	-4.0131E-02
4.3524	3.9003E 03	3.9068E 03	-5.4363E-02
4.4271	3.7911E 03	3.7963E 03	-6.4047E-02
4.5018	3.7025E 03	3.7066E 03	-6.9051E-02
4.5764	3.6322E 03	3.6354E 03	-6.9938E-02
4.6508	3.5777E 03	3.5800E 03	-6.7101E-02
4.7252	3.5364E 03	3.5381E 03	-6.0958E-02
4.7995	3.5058E 03	3.5071E 03	-5.2057E-02
4.8737	3.4836E 03	3.4845E 03	-4.0890E-02
4.9478	3.4674E 03	3.4680E 03	-2.8106E-02
5.0219	3.4547E 03	3.4552E 03	-1.4044E-02
5.0958	3.4431E 03	3.4436E 03	-2.4438E-06
5.1696	3.4303E 03	3.4309E 03	
5.2434	3.4138E 03	3.4147E 03	
5.3170	3.3915E 03	3.3926E 03	
5.3905	3.3610E 03	3.3624E 03	
5.4639	3.3199E 03	3.3218E 03	
5.5373	3.2681E 03	3.2702E 03	
5.6105	3.2158E 03	3.2178E 03	
5.6836	3.1648E 03	3.1668E 03	
5.7566	3.1152E 03	3.1170E 03	
5.8295	3.0667E 03	3.0685E 03	
5.9023	3.0195E 03	3.0212E 03	
5.9749	2.9735E 03	2.9751E 03	
6.0475	2.9286E 03	2.9302E 03	
6.1199	2.8849E 03	2.8864E 03	

TABLE 5.G (cont.)

DATA ANALYSIS
EXPERIMENT OF 9/28/71(I), T=133 DEG K, RHO=1.054 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
6.1923	2.8423E 03	2.8437E 03	
6.2645	2.8007E 03	2.8021E 03	
6.3365	2.7602E 03	2.7615E 03	
6.4085	2.7207E 03	2.7219E 03	
6.4804	2.6821E 03	2.6833E 03	
6.5521	2.6445E 03	2.6457E 03	
6.6237	2.6078E 03	2.6089E 03	
6.6951	2.5720E 03	2.5731E 03	
6.7665	2.5370E 03	2.5381E 03	
6.8377	2.5029E 03	2.5039E 03	
6.9088	2.4696E 03	2.4705E 03	
6.9797	2.4370E 03	2.4379E 03	
7.0506	2.4052E 03	2.4061E 03	
7.1212	2.3741E 03	2.3749E 03	
7.1918	2.3437E 03	2.3445E 03	
7.2622	2.3139E 03	2.3147E 03	
7.3325	2.2847E 03	2.2855E 03	
7.4026	2.2562E 03	2.2569E 03	
7.4726	2.2282E 03	2.2289E 03	
7.5424	2.2008E 03	2.2015E 03	
7.6122	2.1739E 03	2.1745E 03	
7.6817	2.1475E 03	2.1481E 03	
7.7511	2.1216E 03	2.1221E 03	
7.8204	2.0961E 03	2.0966E 03	
7.8895	2.0710E 03	2.0715E 03	
7.9585	2.0463E 03	2.0468E 03	
8.0273	2.0220E 03	2.0225E 03	
8.0960	1.9980E 03	1.9985E 03	
8.1645	1.9743E 03	1.9748E 03	
8.2328	1.9510E 03	1.9514E 03	
8.3010	1.9279E 03	1.9283E 03	
8.3691	1.9050E 03	1.9054E 03	
8.4370	1.8824E 03	1.8828E 03	
8.5047	1.8599E 03	1.8604E 03	
8.5722	1.8377E 03	1.8381E 03	
8.6396	1.8156E 03	1.8160E 03	
8.7069	1.7937E 03	1.7940E 03	
8.7739	1.7718E 03	1.7722E 03	
8.8408	1.7501E 03	1.7504E 03	

TABLE 5.G (cont.)

DATA ANALYSIS
EXPERIMENT OF 9/28/71(I), T=133 DEG K, RHO=1.054 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
0.3	-0.3894	-9.8618	
0.4	-0.1134	-9.3305	
0.5	0.1622	-8.7473	
0.6	0.3975	-8.1648	
0.7	0.5606	-7.6278	
0.8	0.6331	-7.1670	
0.9	0.6123	-6.7957	
1.0	0.5108	-6.5096	
1.1	0.3538	-6.2897	
1.2	0.1736	-6.1070	
1.3	0.0038	-5.9298	
1.4	-0.1273	-5.7295	
1.5	-0.2013	-5.4870	
1.6	-0.2126	-5.1949	
1.7	-0.1685	-4.8594	
1.8	-0.0874	-4.4975	
1.9	0.0061	-4.1332	
2.0	0.0861	-3.7922	
2.1	0.1312	-3.4961	
2.2	0.1290	-3.2579	
2.3	0.0786	-3.0787	
2.4	-0.0089	-2.9479	
2.5	-0.1123	-2.8441	
2.6	-0.2039	-2.7396	
2.7	-0.2551	-2.6052	
2.8	-0.2412	-2.4158	
2.9	-0.1463	-2.1549	
3.0	0.0341	-1.8176	
3.1	0.2915	-1.4122	234.82
3.2	0.6060	-0.9586	126.14
3.3	0.9492	-0.4854	54.93
3.4	1.2884	-0.0258	2.64
3.5	1.5915	0.3880	-37.17
3.6	1.8316	0.7288	-67.48
3.7	1.9904	0.9784	-89.97
3.8	2.0603	1.1295	-105.67
3.9	2.0446	1.1856	-115.34
4.0	1.9558	1.1601	-119.61
4.1	1.8132	1.0730	-119.16
4.2	1.6394	0.9476	-114.75
4.3	1.4567	0.8068	-107.35
4.4	1.2841	0.6703	-98.16

TABLE 5.G (cont.)

DATA ANALYSIS
EXPERIMENT OF 9/28/71(I), T=133 DEG K, RHO=1.054 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
4.5	1.1355	0.5520	-88.54
4.6	1.0184	0.4596	-79.83
4.7	0.9342	0.3946	-73.00
4.8	0.8797	0.3536	-68.38
4.9	0.8483	0.3300	-65.54
5.0	0.8322	0.3162	-63.57
5.1	0.8243	0.3051	-61.47
5.2	0.8191	0.2915	-58.52
5.3	0.8134	0.2730	-54.38
5.4	0.8067	0.2493	-49.17
5.5	0.8003	0.2223	-43.27
5.6	0.7963	0.1946	-37.26
5.7	0.7973	0.1690	-31.68
5.8	0.8050	0.1476	-26.94
5.9	0.8204	0.1313	-23.20
6.0	0.8427	0.1196	-20.35
6.1	0.8706	0.1110	-18.14
6.2	0.9017	0.1035	-16.22
6.3	0.9337	0.0953	-14.32
6.4	0.9645	0.0849	-12.25
6.5	0.9928	0.0717	-9.98
6.6	1.0178	0.0564	-7.58
6.7	1.0395	0.0400	-5.21
6.8	1.0583	0.0242	-3.08
6.9	1.0748	0.0109	-1.35
7.0	1.0892	0.0012	-0.15
7.1	1.1015	-0.0042	0.50
7.2	1.1114	-0.0055	0.65
7.3	1.1179	-0.0036	0.43
7.4	1.1202	-0.0000	0.00
7.5	1.1176	0.0037	-0.44
7.6	1.1095	0.0061	-0.74
7.7	1.0961	0.0062	-0.75
7.8	1.0783	0.0036	-0.44
7.9	1.0573	-0.0016	0.20
8.0	1.0347	-0.0086	1.10
8.1	1.0122	-0.0164	2.14
8.2	0.9914	-0.0240	3.18
8.3	0.9735	-0.0305	4.11
8.4	0.9591	-0.0354	4.82
8.5	0.9486	-0.0385	5.29
8.6	0.9417	-0.0398	5.50

TABLE 5.G (cont.)

DATA ANALYSIS
EXPERIMENT OF 9/28/71(I), T=133 DEG K, RHO=1.054 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
8.7	0.9380	-0.0397	5.51
8.8	0.9368	-0.0386	5.38
8.9	0.9377	-0.0369	5.14
9.0	0.9403	-0.0348	4.83
9.1	0.9444	-0.0322	4.46
9.2	0.9500	-0.0291	4.01
9.3	0.9571	-0.0252	3.45
9.4	0.9656	-0.0204	2.78
9.5	0.9754	-0.0148	2.00
9.6	0.9859	-0.0085	1.15
9.7	0.9968	-0.0021	0.27
9.8	1.0071	0.0041	-0.55
9.9	1.0162	0.0094	-1.24
10.0	1.0235	0.0133	-1.74

TABLE 5.H

DATA ANALYSIS
EXPERIMENT OF 11/30/71, T=143 DEG K, RHO=0.91 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
0.0			2.9000E-01
0.0772			1.3993E-01
0.1543			-1.4507E-01
0.2315			-3.7940E-01
0.3086			-5.3131E-01
0.3857			-6.2127E-01
0.4629	4.3780E 03	4.5851E 03	-6.6760E-01
0.5400	4.0134E 03	4.1756E 03	-6.9530E-01
0.6171	3.6940E 03	3.8112E 03	-7.1981E-01
0.6942	3.4468E 03	3.5189E 03	-7.3907E-01
0.7713	3.2988E 03	3.3257E 03	-7.5087E-01
0.8483	3.2769E 03	3.2587E 03	-7.5302E-01
0.9254	3.4080E 03	3.3447E 03	-7.4309E-01
1.0024	3.7189E 03	3.6134E 03	-7.1810E-01
1.0794	4.1675E 03	4.0477E 03	-6.7863E-01
1.1564	4.7199E 03	4.5817E 03	-6.2920E-01
1.2334	5.4034E 03	5.2435E 03	-5.6681E-01
1.3104	6.2455E 03	6.0611E 03	-4.8800E-01
1.3873	7.2731E 03	7.0620E 03	-3.8950E-01
1.4642	8.5135E 03	8.2738E 03	-2.6706E-01
1.5411	9.9938E 03	9.7239E 03	-1.1667E-01
1.6179	1.1741E 04	1.1440E 04	6.6544E-02
1.6947	1.3706E 04	1.3450E 04	2.8797E-01
1.7715	1.4913E 04	1.4813E 04	4.5752E-01
1.8482	1.5206E 04	1.5223E 04	5.3872E-01
1.9249	1.4780E 04	1.4877E 04	5.4459E-01
2.0016	1.3826E 04	1.3974E 04	4.9067E-01
2.0783	1.2538E 04	1.2709E 04	3.9290E-01
2.1549	1.1107E 04	1.1277E 04	2.6993E-01
2.2314	9.7257E 03	9.8722E 03	1.4172E-01
2.3079	8.5842E 03	8.6883E 03	3.1741E-02
2.3844	7.7783E 03	7.8539E 03	-4.2017E-02
2.4608	7.1349E 03	7.1935E 03	-9.8691E-02
2.5372	6.6272E 03	6.6711E 03	-1.4092E-01
2.6135	6.2411E 03	6.2726E 03	-1.7013E-01
2.6898	5.9624E 03	5.9837E 03	-1.8649E-01
2.7660	5.7774E 03	5.7902E 03	-1.9081E-01
2.8422	5.6719E 03	5.6780E 03	-1.8403E-01
2.9183	5.6322E 03	5.6331E 03	-1.6728E-01
2.9944	5.6443E 03	5.6415E 03	-1.4172E-01
3.0704	5.6854E 03	5.6817E 03	-1.1053E-01

TABLE 5.H (cont.)

DATA ANALYSIS
EXPERIMENT OF 11/30/71, T=143 DEG K, RHO=0.91 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
3.1463	5.7346E 03	5.7306E 03	-7.7092E-02
3.2222	5.7862E 03	5.7823E 03	-4.1901E-02
3.2981	5.8345E 03	5.8312E 03	-6.4656E-03
3.3738	5.8739E 03	5.8715E 03	2.8358E-02
3.4495	5.8989E 03	5.8978E 03	6.1601E-02
3.5252	5.9039E 03	5.9044E 03	9.1474E-02
3.6007	5.8834E 03	5.8858E 03	1.1702E-01
3.6762	5.8319E 03	5.8365E 03	1.3619E-01
3.7517	5.7439E 03	5.7510E 03	1.4780E-01
3.8270	5.6141E 03	5.6238E 03	1.4933E-01
3.9023	5.4370E 03	5.4495E 03	1.3947E-01
3.9775	5.2073E 03	5.2229E 03	1.1620E-01
4.0526	4.9421E 03	4.9571E 03	8.1154E-02
4.1277	4.7027E 03	4.7157E 03	4.9292E-02
4.2027	4.4911E 03	4.5023E 03	2.1626E-02
4.2776	4.3053E 03	4.3149E 03	-2.1223E-03
4.3524	4.1434E 03	4.1515E 03	-2.1599E-02
4.4271	4.0034E 03	4.0103E 03	-3.7364E-02
4.5018	3.8835E 03	3.8892E 03	-4.9129E-02
4.5764	3.7816E 03	3.7864E 03	-5.7328E-02
4.6508	3.6959E 03	3.6998E 03	-6.2160E-02
4.7252	3.6245E 03	3.6277E 03	-6.3858E-02
4.7995	3.5655E 03	3.5681E 03	-6.2760E-02
4.8737	3.5171E 03	3.5191E 03	-5.9148E-02
4.9478	3.4772E 03	3.4789E 03	-5.3438E-02
5.0219	3.4442E 03	3.4456E 03	-4.5985E-02
5.0958	3.4162E 03	3.4174E 03	-3.7306E-02
5.1696	3.3914E 03	3.3924E 03	-2.7816E-02
5.2434	3.3679E 03	3.3689E 03	-1.7855E-02
5.3170	3.3439E 03	3.3450E 03	-8.4471E-03
5.3905	3.3177E 03	3.3189E 03	-2.2054E-06
5.4639	3.2876E 03	3.2889E 03	
5.5373	3.2517E 03	3.2533E 03	
5.6105	3.2084E 03	3.2103E 03	
5.6836	3.1559E 03	3.1581E 03	
5.7566	3.0967E 03	3.0989E 03	
5.8295	3.0392E 03	3.0413E 03	
5.9023	2.9839E 03	2.9858E 03	
5.9749	2.9305E 03	2.9324E 03	
6.0475	2.8790E 03	2.8808E 03	
6.1199	2.8294E 03	2.8311E 03	

TABLE 5.H (cont.)

DATA ANALYSIS
EXPERIMENT OF 11/30/71, T=143 DEG K, RHO=0.91 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
6.1923	2.7816E 03	2.7832E 03	
6.2645	2.7356E 03	2.7371E 03	
6.3365	2.6912E 03	2.6926E 03	
6.4085	2.6485E 03	2.6498E 03	
6.4804	2.6073E 03	2.6085E 03	
6.5521	2.5676E 03	2.5688E 03	
6.6237	2.5293E 03	2.5304E 03	
6.6951	2.4924E 03	2.4935E 03	
6.7665	2.4568E 03	2.4578E 03	
6.8377	2.4224E 03	2.4234E 03	
6.9088	2.3893E 03	2.3902E 03	
6.9797	2.3573E 03	2.3581E 03	
7.0506	2.3263E 03	2.3272E 03	
7.1212	2.2964E 03	2.2972E 03	
7.1918	2.2675E 03	2.2682E 03	
7.2622	2.2394E 03	2.2402E 03	
7.3325	2.2123E 03	2.2129E 03	
7.4026	2.1859E 03	2.1865E 03	
7.4726	2.1602E 03	2.1608E 03	
7.5424	2.1353E 03	2.1359E 03	
7.6122	2.1110E 03	2.1115E 03	
7.6817	2.0872E 03	2.0878E 03	
7.7511	2.0640E 03	2.0646E 03	
7.8204	2.0413E 03	2.0418E 03	
7.8895	2.0190E 03	2.0195E 03	
7.9585	1.9971E 03	1.9976E 03	
8.0273	1.9755E 03	1.9760E 03	
8.0960	1.9542E 03	1.9547E 03	
8.1645	1.9332E 03	1.9336E 03	
8.2328	1.9123E 03	1.9127E 03	
8.3010	1.8915E 03	1.8919E 03	
8.3691	1.8709E 03	1.8713E 03	
8.4370	1.8503E 03	1.8507E 03	
8.5047	1.8297E 03	1.8300E 03	
8.5722	1.8090E 03	1.8094E 03	
8.6396	1.7883E 03	1.7886E 03	
8.7069	1.7674E 03	1.7677E 03	
8.7739	1.7463E 03	1.7467E 03	
8.8408	1.7251E 03	1.7254E 03	

TABLE 5.H (cont.)

DATA ANALYSIS
EXPERIMENT OF 11/30/71, T=143 DEG K, RHO=0.91 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
0.3	-0.1615	-7.3810	
0.4	0.1398	-6.8343	
0.5	0.4189	-6.2657	
0.6	0.6252	-5.7410	
0.7	0.7235	-5.3105	
0.8	0.7001	-5.0011	
0.9	0.5656	-4.8132	
1.0	0.3514	-4.7225	
1.1	0.1036	-4.6868	
1.2	-0.1269	-4.6560	
1.3	-0.2949	-4.5832	
1.4	-0.3694	-4.4345	
1.5	-0.3402	-4.1955	
1.6	-0.2190	-3.8742	
1.7	-0.0364	-3.4984	
1.8	0.1643	-3.1092	
1.9	0.3369	-2.7522	
2.0	0.4414	-2.4674	
2.1	0.4525	-2.2813	
2.2	0.3645	-2.2004	
2.3	0.1929	-2.2104	
2.4	-0.0287	-2.2789	
2.5	-0.2551	-2.3609	
2.6	-0.4379	-2.4082	
2.7	-0.5344	-2.3778	
2.8	-0.5152	-2.2396	
2.9	-0.3693	-1.9822	
3.0	-0.1058	-1.6141	
3.1	0.2488	-1.1615	248.10
3.2	0.6546	-0.6640	100.13
3.3	1.0663	-0.1668	20.79
3.4	1.4397	0.2860	-31.67
3.5	1.7392	0.6590	-68.10
3.6	1.9419	0.9293	-93.12
3.7	2.0399	1.0896	-109.23
3.8	2.0398	1.1465	-118.07
3.9	1.9596	1.1185	-120.94
4.0	1.8246	1.0308	-119.02
4.1	1.6619	0.9108	-113.56
4.2	1.4965	0.7831	-105.94
4.3	1.3474	0.6665	-97.60
4.4	1.2261	0.5722	-89.89

TABLE 5.H (cont.)

DATA ANALYSIS
EXPERIMENT OF 11/30/71, T=143 DEG K, RHO=0.91 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
4.5	1.1363	0.5035	-83.70
4.6	1.0755	0.4576	-79.25
4.7	1.0366	0.4278	-76.10
4.8	1.0112	0.4058	-73.37
4.9	0.9911	0.3844	-70.18
5.0	0.9704	0.3585	-65.95
5.1	0.9461	0.3263	-60.48
5.2	0.9181	0.2886	-53.96
5.3	0.8886	0.2483	-46.87
5.4	0.8606	0.2092	-39.83
5.5	0.8376	0.1747	-33.44
5.6	0.8222	0.1469	-28.15
5.7	0.8158	0.1267	-24.15
5.8	0.8185	0.1134	-21.32
5.9	0.8293	0.1050	-19.35
6.0	0.8468	0.0994	-17.86
6.1	0.8691	0.0947	-16.49
6.2	0.8949	0.0893	-15.04
6.3	0.9228	0.0829	-13.45
6.4	0.9520	0.0753	-11.79
6.5	0.9815	0.0674	-10.17
6.6	1.0105	0.0596	-8.69
6.7	1.0377	0.0524	-7.41
6.8	1.0620	0.0460	-6.33
6.9	1.0817	0.0398	-5.36
7.0	1.0956	0.0334	-4.42
7.1	1.1030	0.0260	-3.41
7.2	1.1036	0.0174	-2.27
7.3	1.0979	0.0076	-0.99
7.4	1.0875	-0.0028	0.37
7.5	1.0742	-0.0128	1.70
7.6	1.0599	-0.0214	2.85
7.7	1.0465	-0.0274	3.69
7.8	1.0355	-0.0302	4.11
7.9	1.0274	-0.0297	4.08
8.0	1.0220	-0.0265	3.66
8.1	1.0186	-0.0216	2.99
8.2	1.0160	-0.0162	2.26
8.3	1.0131	-0.0116	1.63
8.4	1.0089	-0.0089	1.26
8.5	1.0029	-0.0085	1.21
8.6	0.9952	-0.0104	1.49

TABLE 5.H (cont.)

DATA ANALYSIS
EXPERIMENT OF 11/30/71, T=143 DEG K, RHC=0.91 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
8.7	0.9866	-0.0140	2.02
8.8	0.9780	-0.0184	2.67
8.9	0.9705	-0.0226	3.29
9.0	0.9652	-0.0256	3.74
9.1	0.9626	-0.0268	3.93
9.2	0.9631	-0.0260	3.81
9.3	0.9662	-0.0234	3.42
9.4	0.9715	-0.0195	2.84
9.5	0.9782	-0.0149	2.17
9.6	0.9853	-0.0104	1.50
9.7	0.9921	-0.0064	0.91
9.8	0.9982	-0.0031	0.44
9.9	1.0033	-0.0007	0.10
10.0	1.0074	0.0010	-0.15

TABLE 5.I

DATA ANALYSIS
EXPERIMENT OF 12/8/71, T=127 DEG K, RHO=1.098 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
0.0			-7.5000E-01
0.0772			-7.5255E-01
0.1543			-7.5971E-01
0.2315			-7.7022E-01
0.3086			-7.8243E-01
0.3857			-7.9478E-01
0.4629	2.3934E 03	2.4644E 03	-8.0594E-01
0.5400	2.2718E 03	2.3230E 03	-8.1616E-01
0.6171	2.1761E 03	2.2075E 03	-8.2423E-01
0.6942	2.1181E 03	2.1297E 03	-8.2917E-01
0.7713	2.1099E 03	2.1016E 03	-8.2994E-01
0.8483	2.1632E 03	2.1350E 03	-8.2540E-01
0.9254	2.2898E 03	2.2418E 03	-8.1440E-01
1.0024	2.5017E 03	2.4339E 03	-7.9551E-01
1.0794	2.8106E 03	2.7230E 03	-7.6738E-01
1.1564	3.2284E 03	3.1210E 03	-7.2828E-01
1.2334	3.7666E 03	3.6395E 03	-6.7652E-01
1.3104	4.3988E 03	4.2683E 03	-6.1208E-01
1.3873	5.1390E 03	4.9793E 03	-5.3710E-01
1.4642	6.1568E 03	5.9406E 03	-4.3413E-01
1.5411	7.6254E 03	7.3298E 03	-2.8361E-01
1.6179	9.7177E 03	9.3231E 03	-6.4051E-02
1.6947	1.2517E 04	1.2100E 04	2.4823E-01
1.7715	1.4862E 04	1.4594E 04	5.4724E-01
1.8482	1.6225E 04	1.6116E 04	7.5508E-01
1.9249	1.6450E 04	1.6507E 04	8.4661E-01
2.0016	1.5382E 04	1.5612E 04	7.9409E-01
2.0783	1.3019E 04	1.3317E 04	5.7055E-01
2.1549	1.0882E 04	1.1097E 04	3.4284E-01
2.2314	9.3012E 03	9.4528E 03	1.7340E-01
2.3079	8.1561E 03	8.2615E 03	5.2466E-02
2.3844	7.3265E 03	7.4016E 03	-3.2079E-02
2.4608	6.6929E 03	6.7518E 03	-9.3759E-02
2.5372	6.1505E 03	6.1994E 03	-1.4566E-01
2.6135	5.7132E 03	5.7497E 03	-1.8698E-01
2.6898	5.3851E 03	5.4107E 03	-2.1465E-01
2.7660	5.1594E 03	5.1753E 03	-2.2868E-01
2.8422	5.0290E 03	5.0363E 03	-2.2906E-01
2.9183	4.9869E 03	4.9868E 03	-2.1527E-01
2.9944	5.0262E 03	5.0196E 03	-1.8767E-01
3.0704	5.1400E 03	5.1279E 03	-1.4587E-01

TABLE 5.I (cont.)

DATA ANALYSIS
EXPERIMENT OF 12/8/71, T=127 DEG K, RHO=1.098 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
3.1463	5.3214E 03	5.3046E 03	-9.0279E-02
3.2222	5.5571E 03	5.5398E 03	-2.1730E-02
3.2981	5.7373E 03	5.7273E 03	4.0843E-02
3.3738	5.8325E 03	5.8285E 03	8.8972E-02
3.4495	5.8520E 03	5.8531E 03	1.2289E-01
3.5252	5.8053E 03	5.8107E 03	1.4389E-01
3.6007	5.7019E 03	5.7106E 03	1.5258E-01
3.6762	5.5511E 03	5.5624E 03	1.4969E-01
3.7517	5.3622E 03	5.3754E 03	1.3709E-01
3.8270	5.1445E 03	5.1590E 03	1.1568E-01
3.9023	4.9072E 03	4.9223E 03	8.7437E-02
3.9775	4.6596E 03	4.6747E 03	5.4005E-02
4.0526	4.4180E 03	4.4314E 03	1.8862E-02
4.1277	4.2072E 03	4.2185E 03	-1.1326E-02
4.2027	4.0262E 03	4.0356E 03	-3.6207E-02
4.2776	3.8724E 03	3.8802E 03	-5.5901E-02
4.3524	3.7435E 03	3.7499E 03	-7.0661E-02
4.4271	3.6370E 03	3.6421E 03	-8.0697E-02
4.5018	3.5505E 03	3.5545E 03	-8.6357E-02
4.5764	3.4816E 03	3.4847E 03	-8.7935E-02
4.6508	3.4278E 03	3.4301E 03	-8.5844E-02
4.7252	3.3867E 03	3.3885E 03	-8.0553E-02
4.7995	3.3561E 03	3.3574E 03	-7.2503E-02
4.8737	3.3336E 03	3.3345E 03	-6.2024E-02
4.9478	3.3168E 03	3.3174E 03	-5.0168E-02
5.0219	3.3033E 03	3.3039E 03	-3.7341E-02
5.0958	3.2910E 03	3.2916E 03	-2.4039E-02
5.1696	3.2775E 03	3.2782E 03	-1.1383E-02
5.2434	3.2606E 03	3.2614E 03	-1.9073E-06
5.3170	3.2379E 03	3.2390E 03	
5.3905	3.2074E 03	3.2088E 03	
5.4639	3.1667E 03	3.1686E 03	
5.5373	3.1157E 03	3.1177E 03	
5.6105	3.0644E 03	3.0663E 03	
5.6836	3.0146E 03	3.0164E 03	
5.7566	2.9662E 03	2.9680E 03	
5.8295	2.9192E 03	2.9209E 03	
5.9023	2.8735E 03	2.8751E 03	
5.9749	2.8292E 03	2.8307E 03	
6.0475	2.7861E 03	2.7876E 03	
6.1199	2.7443E 03	2.7457E 03	

TABLE 5.I (cont.)

DATA ANALYSIS
EXPERIMENT OF 12/8/71, T=127 DEG K, RHO=1.098 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
6.1923	2.7036E 03	2.7050E 03	
6.2645	2.6642E 03	2.6655E 03	
6.3365	2.6258E 03	2.6271E 03	
6.4085	2.5886E 03	2.5897E 03	
6.4804	2.5523E 03	2.5535E 03	
6.5521	2.5171E 03	2.5182E 03	
6.6237	2.4829E 03	2.4839E 03	
6.6951	2.4496E 03	2.4506E 03	
6.7665	2.4172E 03	2.4182E 03	
6.8377	2.3857E 03	2.3866E 03	
6.9088	2.3550E 03	2.3559E 03	
6.9797	2.3251E 03	2.3259E 03	
7.0506	2.2960E 03	2.2968E 03	
7.1212	2.2676E 03	2.2683E 03	
7.1918	2.2399E 03	2.2406E 03	
7.2622	2.2128E 03	2.2135E 03	
7.3325	2.1864E 03	2.1871E 03	
7.4026	2.1606E 03	2.1612E 03	
7.4726	2.1353E 03	2.1359E 03	
7.5424	2.1106E 03	2.1112E 03	
7.6122	2.0863E 03	2.0869E 03	
7.6817	2.0625E 03	2.0631E 03	
7.7511	2.0392E 03	2.0397E 03	
7.8204	2.0162E 03	2.0168E 03	
7.8895	1.9937E 03	1.9942E 03	
7.9585	1.9714E 03	1.9719E 03	
8.0273	1.9495E 03	1.9500E 03	
8.0960	1.9278E 03	1.9283E 03	
8.1645	1.9064E 03	1.9069E 03	
8.2328	1.8853E 03	1.8857E 03	
8.3010	1.8643E 03	1.8647E 03	
8.3691	1.8435E 03	1.8439E 03	
8.4370	1.8228E 03	1.8232E 03	
8.5047	1.8022E 03	1.8026E 03	
8.5722	1.7817E 03	1.7821E 03	
8.6396	1.7613E 03	1.7617E 03	
8.7069	1.7409E 03	1.7412E 03	
8.7739	1.7205E 03	1.7208E 03	
8.8408	1.7001E 03	1.7004E 03	

TABLE 5.I (cont.)

DATA ANALYSIS
EXPERIMENT OF 12/8/71, T=127 DEG K, RHO=1.098 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
0.3	-0.8970	-11.1945	
0.4	-0.4077	-10.3964	
0.5	0.0869	-9.5334	
0.6	0.5182	-8.6913	
0.7	0.8309	-7.9423	
0.8	0.9916	-7.3352	
0.9	0.9931	-6.8902	
1.0	0.8537	-6.5980	
1.1	0.6132	-6.4248	
1.2	0.3237	-6.3207	
1.3	0.0405	-6.2307	
1.4	-0.1886	-6.1048	
1.5	-0.3309	-5.9077	
1.6	-0.3737	-5.6240	
1.7	-0.3248	-5.2595	
1.8	-0.2094	-4.8383	
1.9	-0.0638	-4.3967	
2.0	0.0728	-3.9746	
2.1	0.1666	-3.6071	
2.2	0.1961	-3.3170	
2.3	0.1558	-3.1107	
2.4	0.0575	-2.9770	
2.5	-0.0727	-2.8897	
2.6	-0.1996	-2.8126	
2.7	-0.2858	-2.7074	
2.8	-0.2990	-2.5402	
2.9	-0.2178	-2.2885	
3.0	-0.0358	-1.9452	
3.1	0.2375	-1.5195	254.16
3.2	0.5782	-1.0354	130.35
3.3	0.9522	-0.5275	55.98
3.4	1.3212	-0.0351	3.33
3.5	1.6479	0.4042	-35.74
3.6	1.9024	0.7598	-64.75
3.7	2.0654	1.0125	-85.57
3.8	2.1301	1.1561	-99.38
3.9	2.1023	1.1973	-107.04
4.0	1.9979	1.1530	-109.30
4.1	1.8393	1.0471	-106.97
4.2	1.6514	0.9056	-100.96
4.3	1.4578	0.7532	-92.33
4.4	1.2778	0.6096	-82.34

TABLE 5.I (cont.)

DATA ANALYSIS
EXPERIMENT OF 12/8/71, T=127 DEG K, RHO=1.098 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
4.5	1.1243	0.4880	-72.30
4.6	1.0037	0.3946	-63.43
4.7	0.9162	0.3292	-56.54
4.8	0.8577	0.2872	-51.78
4.9	0.8215	0.2616	-48.68
5.0	0.8005	0.2451	-46.41
5.1	0.7884	0.2315	-44.15
5.2	0.7809	0.2170	-41.35
5.3	0.7759	0.2001	-37.88
5.4	0.7729	0.1811	-33.90
5.5	0.7729	0.1616	-29.79
5.6	0.7771	0.1435	-25.92
5.7	0.7865	0.1282	-22.59
5.8	0.8014	0.1161	-19.87
5.9	0.8214	0.1067	-17.67
6.0	0.8452	0.0988	-15.78
6.1	0.8715	0.0907	-13.95
6.2	0.8988	0.0810	-12.00
6.3	0.9260	0.0691	-9.85
6.4	0.9527	0.0550	-7.55
6.5	0.9787	0.0396	-5.25
6.6	1.0043	0.0245	-3.14
6.7	1.0297	0.0113	-1.41
6.8	1.0548	0.0015	-0.18
6.9	1.0791	-0.0042	0.49
7.0	1.1014	-0.0056	0.64
7.1	1.1204	-0.0033	0.38
7.2	1.1345	0.0013	-0.15
7.3	1.1425	0.0068	-0.76
7.4	1.1433	0.0117	-1.31
7.5	1.1370	0.0149	-1.68
7.6	1.1240	0.0158	-1.79
7.7	1.1057	0.0142	-1.65
7.8	1.0838	0.0107	-1.26
7.9	1.0601	0.0059	-0.70
8.0	1.0365	0.0004	-0.05
8.1	1.0143	-0.0050	0.63
8.2	0.9945	-0.0101	1.29
8.3	0.9774	-0.0149	1.92
8.4	0.9631	-0.0194	2.53
8.5	0.9513	-0.0239	3.15
8.6	0.9418	-0.0286	3.81

TABLE 5.I (cont.)

DATA ANALYSIS
EXPERIMENT OF 12/8/71, T=127 DEG K, RHO=1.098 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
8.7	0.9343	-0.0336	4.48
8.8	0.9288	-0.0384	5.15
8.9	0.9256	-0.0427	5.73
9.0	0.9250	-0.0458	6.14
9.1	0.9272	-0.0472	6.30
9.2	0.9325	-0.0464	6.16
9.3	0.9407	-0.0432	5.71
9.4	0.9515	-0.0380	4.97
9.5	0.9640	-0.0311	4.04
9.6	0.9774	-0.0234	3.01
9.7	0.9906	-0.0158	2.00
9.8	1.0027	-0.0089	1.12
9.9	1.0130	-0.0033	0.42
10.0	1.0212	0.0005	-0.06

TABLE 5.J

DATA ANALYSIS
EXPERIMENT OF 12/15/71, T=127 DEG K, RHO=1.135 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
0.0			-7.8000E-01
0.0772			-7.8244E-01
0.1543			-7.8922E-01
0.2315			-7.9895E-01
0.3086			-8.0986E-01
0.3857			-8.2029E-01
0.4629	2.0546E 03	2.1040E 03	-8.2888E-01
0.5400	1.9716E 03	2.0052E 03	-8.3616E-01
0.6171	1.9115E 03	1.9292E 03	-8.4145E-01
0.6942	1.8838E 03	1.8856E 03	-8.4394E-01
0.7713	1.8980E 03	1.8840E 03	-8.4278E-01
0.8483	1.9636E 03	1.9337E 03	-8.3700E-01
0.9254	2.0900E 03	2.0442E 03	-8.2554E-01
1.0024	2.2867E 03	2.2251E 03	-8.0731E-01
1.0794	2.5632E 03	2.4858E 03	-7.8105E-01
1.1564	2.9288E 03	2.8356E 03	-7.4552E-01
1.2334	3.3929E 03	3.2840E 03	-6.9920E-01
1.3104	3.9636E 03	3.8367E 03	-6.4071E-01
1.3873	4.7126E 03	4.5468E 03	-5.6435E-01
1.4642	5.7716E 03	5.5478E 03	-4.5531E-01
1.5411	7.2731E 03	6.9753E 03	-2.9718E-01
1.6179	9.3491E 03	8.9636E 03	-7.2287E-02
1.6947	1.2058E 04	1.1650E 04	2.3888E-01
1.7715	1.4406E 04	1.4129E 04	5.4390E-01
1.8482	1.5879E 04	1.5750E 04	7.6831E-01
1.9249	1.6261E 04	1.6297E 04	8.7940E-01
2.0016	1.5339E 04	1.5554E 04	8.4258E-01
2.0783	1.3050E 04	1.3348E 04	6.2271E-01
2.1549	1.0849E 04	1.1079E 04	3.8179E-01
2.2314	9.1137E 03	9.2857E 03	1.8762E-01
2.3079	7.7901E 03	7.9139E 03	3.8062E-02
2.3844	6.8249E 03	6.9095E 03	-7.0512E-02
2.4608	6.1647E 03	6.2180E 03	-1.4210E-01
2.5372	5.7434E 03	5.7782E 03	-1.8141E-01
2.6135	5.4410E 03	5.4654E 03	-2.0518E-01
2.6898	5.2301E 03	5.2457E 03	-2.1643E-01
2.7660	5.0997E 03	5.1081E 03	-2.1600E-01
2.8422	5.0390E 03	5.0415E 03	-2.0460E-01
2.9183	5.0370E 03	5.0349E 03	-1.8335E-01
2.9944	5.0831E 03	5.0775E 03	-1.5285E-01
3.0704	5.1663E 03	5.1583E 03	-1.1455E-01

TABLE 5.J (cont.)

DATA ANALYSIS
EXPERIMENT OF 12/15/71, T=127 DEG K, RHO=1.135 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
3.1463	5.2759E 03	5.2665E 03	-6.9970E-02
3.2222	5.3991E 03	5.3903E 03	-2.0728E-02
3.2981	5.4919E 03	5.4867E 03	2.4900E-02
3.3738	5.5421E 03	5.5400E 03	6.3038E-02
3.4495	5.5511E 03	5.5520E 03	9.3885E-02
3.5252	5.5205E 03	5.5240E 03	1.1679E-01
3.6007	5.4519E 03	5.4578E 03	1.3139E-01
3.6762	5.3467E 03	5.3548E 03	1.3733E-01
3.7517	5.2064E 03	5.2166E 03	1.3430E-01
3.8270	5.0327E 03	5.0447E 03	1.2179E-01
3.9023	4.8270E 03	4.8407E 03	9.9895E-02
3.9775	4.5908E 03	4.6059E 03	6.8173E-02
4.0526	4.3419E 03	4.3556E 03	2.9778E-02
4.1277	4.1265E 03	4.1379E 03	-3.0041E-03
4.2027	3.9448E 03	3.9542E 03	-2.9321E-02
4.2776	3.7938E 03	3.8014E 03	-4.9430E-02
4.3524	3.6706E 03	3.6765E 03	-6.3577E-02
4.4271	3.5721E 03	3.5767E 03	-7.1889E-02
4.5018	3.4954E 03	3.4989E 03	-7.5294E-02
4.5764	3.4378E 03	3.4403E 03	-7.3954E-02
4.6508	3.3962E 03	3.3979E 03	-6.8418E-02
4.7252	3.3679E 03	3.3690E 03	-5.9275E-02
4.7995	3.3499E 03	3.3506E 03	-4.6952E-02
4.8737	3.3395E 03	3.3399E 03	-3.2596E-02
4.9478	3.3338E 03	3.3340E 03	-1.6756E-02
5.0219	3.3301E 03	3.3303E 03	-2.2054E-06
5.0958	3.3256E 03	3.3259E 03	
5.1696	3.3176E 03	3.3180E 03	
5.2434	3.3032E 03	3.3040E 03	
5.3170	3.2799E 03	3.2812E 03	
5.3905	3.2450E 03	3.2467E 03	
5.4639	3.1958E 03	3.1981E 03	
5.5373	3.1324E 03	3.1350E 03	
5.6105	3.0689E 03	3.0714E 03	
5.6836	3.0078E 03	3.0101E 03	
5.7566	2.9490E 03	2.9512E 03	
5.8295	2.8924E 03	2.8944E 03	
5.9023	2.8379E 03	2.8398E 03	
5.9749	2.7855E 03	2.7873E 03	
6.0475	2.7350E 03	2.7368E 03	
6.1199	2.6866E 03	2.6882E 03	

TABLE 5.J (cont.)

DATA ANALYSIS
EXPERIMENT OF 12/15/71, T=127 DEG K, RHO=1.135 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
6.1923	2.6399E 03	2.6415E 03	
6.2645	2.5951E 03	2.5966E 03	
6.3365	2.5521E 03	2.5534E 03	
6.4085	2.5107E 03	2.5120E 03	
6.4804	2.4709E 03	2.4721E 03	
6.5521	2.4326E 03	2.4338E 03	
6.6237	2.3959E 03	2.3970E 03	
6.6951	2.3605E 03	2.3616E 03	
6.7665	2.3265E 03	2.3275E 03	
6.8377	2.2938E 03	2.2948E 03	
6.9088	2.2624E 03	2.2633E 03	
6.9797	2.2321E 03	2.2329E 03	
7.0506	2.2029E 03	2.2037E 03	
7.1212	2.1748E 03	2.1755E 03	
7.1918	2.1476E 03	2.1483E 03	
7.2622	2.1214E 03	2.1221E 03	
7.3325	2.0961E 03	2.0967E 03	
7.4026	2.0716E 03	2.0722E 03	
7.4726	2.0478E 03	2.0484E 03	
7.5424	2.0248E 03	2.0253E 03	
7.6122	2.0024E 03	2.0029E 03	
7.6817	1.9806E 03	1.9811E 03	
7.7511	1.9593E 03	1.9598E 03	
7.8204	1.9385E 03	1.9390E 03	
7.8895	1.9182E 03	1.9186E 03	
7.9585	1.8982E 03	1.8986E 03	
8.0273	1.8785E 03	1.8789E 03	
8.0960	1.8591E 03	1.8595E 03	
8.1645	1.8400E 03	1.8404E 03	
8.2328	1.8210E 03	1.8214E 03	
8.3010	1.8022E 03	1.8025E 03	
8.3691	1.7834E 03	1.7837E 03	
8.4370	1.7646E 03	1.7650E 03	
8.5047	1.7458E 03	1.7462E 03	
8.5722	1.7270E 03	1.7273E 03	
8.6396	1.7080E 03	1.7084E 03	
8.7069	1.6889E 03	1.6893E 03	
8.7739	1.6696E 03	1.6699E 03	
8.8408	1.6500E 03	1.6504E 03	

TABLE 5.J (cont.)

DATA ANALYSIS
EXPERIMENT OF 12/15/71, T=127 DEG K, RHO=1.135 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
0.3	0.0590	-10.6842	
0.4	0.2677	-10.2004	
0.5	0.4711	-9.6641	
0.6	0.6364	-9.1209	
0.7	0.7380	-8.6095	
0.8	0.7614	-8.1571	
0.9	0.7051	-7.7760	
1.0	0.5811	-7.4634	
1.1	0.4113	-7.2036	
1.2	0.2243	-6.9727	
1.3	0.0491	-6.7437	
1.4	-0.0891	-6.4924	
1.5	-0.1742	-6.2020	
1.6	-0.2008	-5.8666	
1.7	-0.1751	-5.4914	
1.8	-0.1127	-5.0915	
1.9	-0.0352	-4.6886	
2.0	0.0345	-4.3059	
2.1	0.0770	-3.9638	
2.2	0.0804	-3.6748	
2.3	0.0430	-3.4417	
2.4	-0.0263	-3.2562	
2.5	-0.1094	-3.1003	
2.6	-0.1821	-2.9496	
2.7	-0.2188	-2.7778	
2.8	-0.1968	-2.5613	
2.9	-0.1009	-2.2837	
3.0	0.0740	-1.9390	
3.1	0.3214	-1.5327	222.58
3.2	0.6238	-1.0816	127.73
3.3	0.9555	-0.6110	62.78
3.4	1.2862	-0.1509	14.09
3.5	1.5854	0.2680	-23.51
3.6	1.8265	0.6192	-52.58
3.7	1.9908	0.8838	-74.53
3.8	2.0690	1.0528	-90.30
3.9	2.0624	1.1276	-100.49
4.0	1.9816	1.1191	-105.65
4.1	1.8442	1.0455	-106.28
4.2	1.6718	0.9288	-102.99
4.3	1.4867	0.7917	-96.58
4.4	1.3084	0.6543	-88.05

TABLE 5.J (cont.)

DATA ANALYSIS
EXPERIMENT OF 12/15/71, T=127 DEG K, RHO=1.135 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
4.5	1.1519	0.5318	-78.65
4.6	1.0260	0.4333	-69.68
4.7	0.9335	0.3616	-62.22
4.8	0.8719	0.3143	-56.77
4.9	0.8348	0.2852	-53.10
5.0	0.8143	0.2667	-50.39
5.1	0.8024	0.2511	-47.66
5.2	0.7931	0.2326	-44.10
5.3	0.7825	0.2082	-39.29
5.4	0.7697	0.1775	-33.29
5.5	0.7563	0.1426	-26.53
5.6	0.7454	0.1071	-19.70
5.7	0.7406	0.0751	-13.58
5.8	0.7450	0.0501	-8.85
5.9	0.7609	0.0343	-5.87
6.0	0.7883	0.0282	-4.62
6.1	0.8260	0.0303	-4.75
6.2	0.8711	0.0382	-5.70
6.3	0.9201	0.0487	-6.90
6.4	0.9691	0.0584	-7.90
6.5	1.0147	0.0649	-8.39
6.6	1.0543	0.0666	-8.28
6.7	1.0865	0.0631	-7.60
6.8	1.1108	0.0553	-6.49
6.9	1.1275	0.0447	-5.14
7.0	1.1375	0.0331	-3.75
7.1	1.1419	0.0224	-2.51
7.2	1.1416	0.0137	-1.53
7.3	1.1374	0.0077	-0.86
7.4	1.1297	0.0042	-0.48
7.5	1.1187	0.0028	-0.32
7.6	1.1045	0.0024	-0.28
7.7	1.0874	0.0021	-0.24
7.8	1.0678	0.0010	-0.12
7.9	1.0466	-0.0011	0.14
8.0	1.0247	-0.0044	0.54
8.1	1.0033	-0.0084	1.06
8.2	0.9836	-0.0126	1.61
8.3	0.9666	-0.0163	2.12
8.4	0.9529	-0.0191	2.52
8.5	0.9428	-0.0208	2.77
8.6	0.9361	-0.0214	2.87

TABLE 5.J (cont.)

DATA ANALYSIS
EXPERIMENT OF 12/15/71, T=127 DEG K, RHO=1.135 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
8.7	0.9326	-0.0211	2.84
8.8	0.9317	-0.0204	2.75
8.9	0.9328	-0.0197	2.65
9.0	0.9355	-0.0192	2.58
9.1	0.9395	-0.0191	2.56
9.2	0.9448	-0.0192	2.56
9.3	0.9513	-0.0194	2.56
9.4	0.9593	-0.0191	2.50
9.5	0.9686	-0.0181	2.35
9.6	0.9792	-0.0162	2.09
9.7	0.9906	-0.0135	1.72
9.8	1.0022	-0.0101	1.28
9.9	1.0133	-0.0066	0.82
10.0	1.0231	-0.0033	0.41

TABLE 5.K

DATA ANALYSIS
EXPERIMENT OF 12/21/71, T=127 DEG K, RHO=1.135 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
0.0			-7.8000E-01
0.0772			-7.8305E-01
0.1543			-7.9138E-01
0.2315			-8.0287E-01
0.3086			-8.1505E-01
0.3857			-8.2576E-01
0.4629	2.3375E 03	2.3811E 03	-8.3324E-01
0.5400	2.2657E 03	2.2936E 03	-8.3857E-01
0.6171	2.2180E 03	2.2302E 03	-8.4205E-01
0.6942	2.2041E 03	2.2006E 03	-8.4298E-01
0.7713	2.2331E 03	2.2139E 03	-8.4064E-01
0.8483	2.3147E 03	2.2797E 03	-8.3418E-01
0.9254	2.4580E 03	2.4074E 03	-8.2265E-01
1.0024	2.6725E 03	2.6062E 03	-8.0515E-01
1.0794	2.9676E 03	2.8856E 03	-7.8060E-01
1.1564	3.3524E 03	3.2548E 03	-7.4785E-01
1.2334	3.8364E 03	3.7233E 03	-7.0561E-01
1.3104	4.4360E 03	4.3001E 03	-6.5246E-01
1.3873	5.2510E 03	5.0680E 03	-5.8068E-01
1.4642	6.4304E 03	6.1793E 03	-4.7593E-01
1.5411	8.1235E 03	7.7864E 03	-3.2198E-01
1.6179	1.0479E 04	1.0041E 04	-1.0151E-01
1.6947	1.3567E 04	1.3098E 04	2.0472E-01
1.7715	1.6309E 04	1.5978E 04	5.1077E-01
1.8482	1.8099E 04	1.7935E 04	7.4241E-01
1.9249	1.8650E 04	1.8677E 04	8.6439E-01
2.0016	1.7676E 04	1.7915E 04	8.3720E-01
2.0783	1.5075E 04	1.5415E 04	6.2313E-01
2.1549	1.2583E 04	1.2841E 04	3.8734E-01
2.2314	1.0635E 04	1.0828E 04	2.0042E-01
2.3079	9.1477E 03	9.2880E 03	5.6234E-02
2.3844	8.0360E 03	8.1363E 03	-5.0911E-02
2.4608	7.2159E 03	7.2875E 03	-1.2771E-01
2.5372	6.6047E 03	6.6570E 03	-1.8228E-01
2.6135	6.1490E 03	6.1857E 03	-2.2013E-01
2.6898	5.8308E 03	5.8543E 03	-2.4240E-01
2.7660	5.6340E 03	5.6466E 03	-2.4958E-01
2.8422	5.5427E 03	5.5465E 03	-2.4234E-01
2.9183	5.5411E 03	5.5378E 03	-2.2215E-01
2.9944	5.6132E 03	5.6045E 03	-1.8987E-01
3.0704	5.7434E 03	5.7309E 03	-1.4745E-01

TABLE 5.K (cont.)

DATA ANALYSIS
EXPERIMENT OF 12/21/71, T=127 DEG K, RHO=1.135 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
3.1463	5.9158E 03	5.9009E 03	-9.6507E-02
3.2222	6.1114E 03	6.0974E 03	-3.8845E-02
3.2981	6.2625E 03	6.2536E 03	1.3966E-02
3.3738	6.3509E 03	6.3467E 03	5.7628E-02
3.4495	6.3807E 03	6.3807E 03	9.1939E-02
3.5252	6.3559E 03	6.3594E 03	1.1711E-01
3.6007	6.2802E 03	6.2870E 03	1.3242E-01
3.6762	6.1578E 03	6.1674E 03	1.3816E-01
3.7517	5.9923E 03	6.0043E 03	1.3465E-01
3.8270	5.7878E 03	5.8019E 03	1.2119E-01
3.9023	5.5480E 03	5.5638E 03	9.8602E-02
3.9775	5.2769E 03	5.2941E 03	6.7190E-02
4.0526	4.9944E 03	5.0101E 03	2.9651E-02
4.1277	4.7484E 03	4.7616E 03	-2.4608E-03
4.2027	4.5388E 03	4.5496E 03	-2.8921E-02
4.2776	4.3623E 03	4.3712E 03	-4.9405E-02
4.3524	4.2158E 03	4.2230E 03	-6.4692E-02
4.4271	4.0963E 03	4.1019E 03	-7.4592E-02
4.5018	4.0005E 03	4.0049E 03	-7.9971E-02
4.5764	3.9255E 03	3.9289E 03	-8.0755E-02
4.6508	3.8682E 03	3.8706E 03	-7.7664E-02
4.7252	3.8254E 03	3.8272E 03	-7.1470E-02
4.7995	3.7943E 03	3.7955E 03	-6.2278E-02
4.8737	3.7717E 03	3.7726E 03	-5.1219E-02
4.9478	3.7547E 03	3.7554E 03	-3.8474E-02
5.0219	3.7404E 03	3.7410E 03	-2.5352E-02
5.0958	3.7258E 03	3.7265E 03	-1.2187E-02
5.1696	3.7080E 03	3.7089E 03	-2.0862E-06
5.2434	3.6840E 03	3.6852E 03	
5.3170	3.6511E 03	3.6528E 03	
5.3905	3.6064E 03	3.6085E 03	
5.4639	3.5471E 03	3.5498E 03	
5.5373	3.4731E 03	3.4761E 03	
5.6105	3.3997E 03	3.4025E 03	
5.6836	3.3292E 03	3.3318E 03	
5.7566	3.2615E 03	3.2640E 03	
5.8295	3.1967E 03	3.1990E 03	
5.9023	3.1345E 03	3.1367E 03	
5.9749	3.0749E 03	3.0770E 03	
6.0475	3.0178E 03	3.0198E 03	
6.1199	2.9631E 03	2.9650E 03	

TABLE 5.K (cont.)

DATA ANALYSIS
EXPERIMENT OF 12/21/71, T=127 DEG K, RHO=1.135 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
6.1923	2.9108E 03	2.9125E 03	
6.2645	2.8607E 03	2.8623E 03	
6.3365	2.8127E 03	2.8142E 03	
6.4085	2.7668E 03	2.7682E 03	
6.4804	2.7229E 03	2.7243E 03	
6.5521	2.6809E 03	2.6822E 03	
6.6237	2.6407E 03	2.6419E 03	
6.6951	2.6023E 03	2.6034E 03	
6.7665	2.5654E 03	2.5665E 03	
6.8377	2.5302E 03	2.5312E 03	
6.9088	2.4964E 03	2.4974E 03	
6.9797	2.4641E 03	2.4650E 03	
7.0506	2.4331E 03	2.4339E 03	
7.1212	2.4033E 03	2.4041E 03	
7.1918	2.3747E 03	2.3755E 03	
7.2622	2.3472E 03	2.3479E 03	
7.3325	2.3207E 03	2.3214E 03	
7.4026	2.2952E 03	2.2958E 03	
7.4726	2.2705E 03	2.2711E 03	
7.5424	2.2466E 03	2.2471E 03	
7.6122	2.2234E 03	2.2239E 03	
7.6817	2.2008E 03	2.2014E 03	
7.7511	2.1789E 03	2.1794E 03	
7.8204	2.1574E 03	2.1579E 03	
7.8895	2.1364E 03	2.1369E 03	
7.9585	2.1157E 03	2.1162E 03	
8.0273	2.0953E 03	2.0958E 03	
8.0960	2.0752E 03	2.0756E 03	
8.1645	2.0552E 03	2.0556E 03	
8.2328	2.0353E 03	2.0357E 03	
8.3010	2.0154E 03	2.0158E 03	
8.3691	1.9955E 03	1.9959E 03	
8.4370	1.9755E 03	1.9759E 03	
8.5047	1.9554E 03	1.9558E 03	
8.5722	1.9350E 03	1.9354E 03	
8.6396	1.9143E 03	1.9147E 03	
8.7069	1.8933E 03	1.8937E 03	
8.7739	1.8719E 03	1.8723E 03	
8.8408	1.8501E 03	1.8504E 03	

TABLE 5.K (cont.)

DATA ANALYSIS
EXPERIMENT OF 12/21/71, T=127 DEG K, RHO=1.135 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
0.3	-0.9369	-11.9839	
0.4	-0.5410	-11.2805	
0.5	-0.1357	-10.5051	
0.6	0.2257	-9.7261	
0.7	0.5000	-9.0026	
0.8	0.6601	-8.3764	
0.9	0.6986	-7.8672	
1.0	0.6280	-7.4727	
1.1	0.4767	-7.1714	
1.2	0.2831	-6.9292	
1.3	0.0880	-6.7069	
1.4	-0.0726	-6.4688	
1.5	-0.1743	-6.1894	
1.6	-0.2071	-5.8572	
1.7	-0.1767	-5.4767	
1.8	-0.1016	-5.0653	
1.9	-0.0085	-4.6494	
2.0	0.0742	-4.2578	
2.1	0.1222	-3.9151	
2.2	0.1211	-3.6364	
2.3	0.0691	-3.4237	
2.4	-0.0222	-3.2656	
2.5	-0.1301	-3.1388	
2.6	-0.2251	-3.0131	
2.7	-0.2766	-2.8565	
2.8	-0.2582	-2.6418	
2.9	-0.1536	-2.3513	
3.0	0.0411	-1.9806	
3.1	0.3158	-1.5393	224.86
3.2	0.6484	-1.0498	122.28
3.3	1.0077	-0.5435	54.78
3.4	1.3588	-0.0561	5.14
3.5	1.6679	0.3779	-32.63
3.6	1.9075	0.7305	-61.32
3.7	2.0597	0.9834	-82.43
3.8	2.1181	1.1304	-96.89
3.9	2.0877	1.1771	-105.37
4.0	1.9831	1.1387	-108.44
4.1	1.8255	1.0376	-106.71
4.2	1.6388	0.8987	-100.96
4.3	1.4460	0.7461	-92.15
4.4	1.2663	0.5997	-81.49

TABLE 5.K (cont.)

DATA ANALYSIS
EXPERIMENT OF 12/21/71, T=127 DEG K, RHO=1.135 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
4.5	1.1128	0.4734	-70.36
4.6	0.9924	0.3743	-60.13
4.7	0.9055	0.3032	-51.79
4.8	0.8480	0.2562	-45.68
4.9	0.8131	0.2264	-41.45
5.0	0.7930	0.2064	-38.28
5.1	0.7807	0.1894	-35.29
5.2	0.7716	0.1711	-31.84
5.3	0.7631	0.1496	-27.72
5.4	0.7552	0.1254	-23.06
5.5	0.7496	0.1006	-18.29
5.6	0.7486	0.0778	-13.94
5.7	0.7545	0.0597	-10.47
5.8	0.7689	0.0478	-8.15
5.9	0.7920	0.0422	-6.95
6.0	0.8228	0.0420	-6.65
6.1	0.8594	0.0451	-6.84
6.2	0.8993	0.0492	-7.14
6.3	0.9399	0.0520	-7.23
6.4	0.9788	0.0522	-6.96
6.5	1.0145	0.0490	-6.28
6.6	1.0459	0.0427	-5.30
6.7	1.0728	0.0345	-4.16
6.8	1.0951	0.0258	-3.03
6.9	1.1129	0.0179	-2.06
7.0	1.1263	0.0121	-1.37
7.1	1.1352	0.0087	-0.98
7.2	1.1393	0.0078	-0.88
7.3	1.1384	0.0089	-0.99
7.4	1.1323	0.0109	-1.23
7.5	1.1211	0.0132	-1.50
7.6	1.1054	0.0148	-1.71
7.7	1.0861	0.0154	-1.81
7.8	1.0646	0.0148	-1.78
7.9	1.0422	0.0135	-1.65
8.0	1.0204	0.0116	-1.45
8.1	1.0004	0.0097	-1.23
8.2	0.9831	0.0079	-1.03
8.3	0.9688	0.0064	-0.84
8.4	0.9575	0.0050	-0.66
8.5	0.9489	0.0033	-0.45
8.6	0.9425	0.0011	-0.15

TABLE 5.K (cont.)

DATA ANALYSIS
EXPERIMENT OF 12/21/71, T=127 DEG K, RHO=1.135 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
8.7	0.9379	-0.0018	0.24
8.8	0.9348	-0.0055	0.75
8.9	0.9333	-0.0098	1.33
9.0	0.9334	-0.0141	1.91
9.1	0.9356	-0.0180	2.42
9.2	0.9401	-0.0207	2.77
9.3	0.9470	-0.0219	2.90
9.4	0.9564	-0.0213	2.79
9.5	0.9677	-0.0189	2.46
9.6	0.9803	-0.0152	1.96
9.7	0.9933	-0.0109	1.38
9.8	1.0056	-0.0064	0.81
9.9	1.0165	-0.0027	0.33
10.0	1.0251	-0.0000	0.00

TABLE 6.

DATA SUMMARY

Main Peak Height: g(r), c(r) and PY Well Depth

Run No.	g(r)	@ r	c(r)	@ r	min. u(r)/k	@ r
1	2.013	3.88 Å	1.126	3.94 Å	-119.9°K	4.02 Å
2	1.990	3.83	1.061	3.88	-111.6	3.96
3	2.134	3.85	1.176	3.94	-107.3	4.06
4	2.132	3.83	1.229	3.91	-120.0	4.02
5	2.083	3.81	1.196	3.91	-117.3	4.06
6	2.145	3.81	1.265	3.88	-119.1	4.00
7	2.064	3.83	1.186	3.91	-119.9	4.04
8	2.051	3.75	1.147	3.81	-120.9	3.91
9	2.131	3.81	1.197	3.88	-109.2	4.00
10	2.075	3.85	1.133	3.94	-106.5	4.06
11	2.118	3.81	1.176	3.91	-108.5	4.00

TABLE 6. (cont.)

DATA SUMMARY

Main Peak Height of i(s) and Width at i(s) = 0

Run No.	i(s)	@ s	Width
1	0.572	1.89 $\AA^{-1}$	0.713 $\AA^{-1}$
2	0.499	1.89	0.723
3	0.862	1.93	0.703
4	0.656	1.94	0.661
5	0.841	1.94	0.703
6	0.792	1.94	0.692
7	0.756	1.94	0.713
8	0.550	1.89	0.743
9	0.849	1.94	0.723
10	0.887	1.94	0.693
11	0.875	1.95	0.702

TABLE 7.A

Numerical Experiment: Distortion

DATA ANALYSIS
EXPERIMENT OF 6/16/71, T=143 DEG K, RHO=0.91 GM/CC

S	I(S) CORRECTED FOR DISTORTION	I(S) VIEWED FROM 4.8 IN.	I(S) STRUCTURE FACTOR
0.0			2.9000E-01
0.0772			6.7681E-02
0.1543			-2.8301E-01
0.2315			-5.1716E-01
0.3086			-6.4728E-01
0.3857			-7.1460E-01
0.4629	3.9261E 03	3.8090E 03	-7.3975E-01
0.5400	3.7802E 03	3.7053E 03	-7.4532E-01
0.6171	3.6656E 03	3.6335E 03	-7.4841E-01
0.6942	3.5959E 03	3.6071E 03	-7.4804E-01
0.7713	3.5844E 03	3.6392E 03	-7.4317E-01
0.8483	3.6446E 03	3.7433E 03	-7.3267E-01
0.9254	3.7899E 03	3.9327E 03	-7.1531E-01
1.0024	4.0337E 03	4.2210E 03	-6.8981E-01
1.0794	4.3889E 03	4.6236E 03	-6.5440E-01
1.1564	4.8747E 03	5.1607E 03	-6.0700E-01
1.2334	5.5147E 03	5.8550E 03	-5.4504E-01
1.3104	6.3323E 03	6.7298E 03	-4.6550E-01
1.3873	7.3511E 03	7.8078E 03	-3.6560E-01
1.4642	8.5941E 03	9.1118E 03	-2.4179E-01
1.5411	1.0085E 04	1.0665E 04	-9.0267E-02
1.6179	1.1846E 04	1.2473E 04	9.1623E-02
1.6947	1.3902E 04	1.4302E 04	2.8503E-01
1.7715	1.5295E 04	1.5406E 04	4.2084E-01
1.8482	1.5715E 04	1.5614E 04	4.7879E-01
1.9249	1.5365E 04	1.5122E 04	4.7049E-01
2.0016	1.4448E 04	1.4124E 04	4.1065E-01
2.0783	1.3165E 04	1.2815E 04	3.1448E-01
2.1549	1.1718E 04	1.1388E 04	1.9955E-01
2.2314	1.0305E 04	1.0039E 04	8.5659E-02
2.3079	9.1249E 03	8.9462E 03	-6.7280E-03
2.3844	8.3052E 03	8.1664E 03	-6.8775E-02
2.4608	7.6475E 03	7.5390E 03	-1.1698E-01
2.5372	7.1171E 03	7.0352E 03	-1.5339E-01
2.6135	6.7036E 03	6.6445E 03	-1.7860E-01
2.6898	6.3965E 03	6.3571E 03	-1.9256E-01
2.7660	6.1854E 03	6.1625E 03	-1.9554E-01
2.8422	6.0597E 03	6.0508E 03	-1.8792E-01
2.9183	6.0093E 03	6.0118E 03	-1.6996E-01
2.9944	6.0238E 03	6.0353E 03	-1.4271E-01
3.0704	6.0929E 03	6.1115E 03	-1.0667E-01

TABLE 7.A (cont.)

Numerical Experiment: Distortion

DATA ANALYSIS
EXPERIMENT OF 6/16/71, T=143 DEG K, RHO=0.91 GM/CC

S	I(S) CORRECTED FOR DISTORTION	I(S) VIEWED FROM 4.8 IN.	I(S) STRUCTURE FACTOR
3.1463	6.2066E 03	6.2298E 03	-6.2917E-02
3.2222	6.3527E 03	6.3695E 03	-1.3825E-02
3.2981	6.4608E 03	6.4677E 03	2.9870E-02
3.3738	6.5064E 03	6.5047E 03	6.4417E-02
3.4495	6.4952E 03	6.4863E 03	9.0218E-02
3.5252	6.4332E 03	6.4181E 03	1.0695E-01
3.6007	6.3261E 03	6.3059E 03	1.1522E-01
3.6762	6.1798E 03	6.1555E 03	1.1567E-01
3.7517	5.9998E 03	5.9724E 03	1.0825E-01
3.8270	5.7921E 03	5.7623E 03	9.3918E-02
3.9023	5.5621E 03	5.5308E 03	7.3436E-02
3.9775	5.3156E 03	5.2846E 03	4.7372E-02
4.0526	5.0664E 03	5.0396E 03	1.9417E-02
4.1277	4.8464E 03	4.8237E 03	-4.7498E-03
4.2027	4.6559E 03	4.6368E 03	-2.4258E-02
4.2776	4.4923E 03	4.4923E 03	-3.5742E-02
4.3524	4.3532E 03	4.3532E 03	-4.7720E-02
4.4271	4.2360E 03	4.2360E 03	-5.5571E-02
4.5018	4.1384E 03	4.1384E 03	-5.9782E-02
4.5764	4.0580E 03	4.0580E 03	-6.0702E-02
4.6508	3.9922E 03	3.9922E 03	-5.8663E-02
4.7252	3.9388E 03	3.9388E 03	-5.4036E-02
4.7995	3.8953E 03	3.8953E 03	-4.7285E-02
4.8737	3.8593E 03	3.8593E 03	-3.8920E-02
4.9478	3.8286E 03	3.8286E 03	-2.9417E-02
5.0219	3.8008E 03	3.8008E 03	-1.9140E-02
5.0958	3.7736E 03	3.7736E 03	-9.2407E-03
5.1696	3.7447E 03	3.7447E 03	-2.5034E-06
5.2434	3.7118E 03	3.7118E 03	
5.3170	3.6726E 03	3.6726E 03	
5.3905	3.6250E 03	3.6250E 03	
5.4639	3.5666E 03	3.5666E 03	
5.5373	3.4972E 03	3.4972E 03	
5.6105	3.4282E 03	3.4282E 03	
5.6836	3.3617E 03	3.3617E 03	
5.7566	3.2977E 03	3.2977E 03	
5.8295	3.2361E 03	3.2361E 03	
5.9023	3.1769E 03	3.1769E 03	
5.9749	3.1198E 03	3.1198E 03	
6.0475	3.0650E 03	3.0650E 03	
6.1199	3.0123E 03	3.0123E 03	

TABLE 7.A (cont.)

Numerical Experiment: Distortion

DATA ANALYSIS
EXPERIMENT OF 6/16/71, T=143 DEG K, RHO=0.91 GM/CC

S	I(S) CORRECTED FOR DISTORTION	I(S) VIEWED FROM 4.8 IN.	I(S) STRUCTURE FACTOR
6.1923	2.9616E 03	2.9616E 03	
6.2645	2.9129E 03	2.9129E 03	
6.3365	2.8661E 03	2.8661E 03	
6.4085	2.8210E 03	2.8210E 03	
6.4804	2.7778E 03	2.7778E 03	
6.5521	2.7362E 03	2.7362E 03	
6.6237	2.6962E 03	2.6962E 03	
6.6951	2.6577E 03	2.6577E 03	
6.7665	2.6207E 03	2.6207E 03	
6.8377	2.5852E 03	2.5852E 03	
6.9088	2.5509E 03	2.5509E 03	
6.9797	2.5179E 03	2.5179E 03	
7.0506	2.4861E 03	2.4861E 03	
7.1212	2.4555E 03	2.4555E 03	
7.1918	2.4259E 03	2.4259E 03	
7.2622	2.3973E 03	2.3973E 03	
7.3325	2.3696E 03	2.3696E 03	
7.4026	2.3429E 03	2.3429E 03	
7.4726	2.3169E 03	2.3169E 03	
7.5424	2.2917E 03	2.2917E 03	
7.6122	2.2672E 03	2.2672E 03	
7.6817	2.2433E 03	2.2433E 03	
7.7511	2.2199E 03	2.2199E 03	
7.8204	2.1971E 03	2.1971E 03	
7.8895	2.1747E 03	2.1747E 03	
7.9585	2.1527E 03	2.1527E 03	
8.0273	2.1311E 03	2.1311E 03	
8.0960	2.1097E 03	2.1097E 03	
8.1645	2.0886E 03	2.0886E 03	
8.2328	2.0676E 03	2.0676E 03	
8.3010	2.0467E 03	2.0467E 03	
8.3691	2.0259E 03	2.0259E 03	
8.4370	2.0051E 03	2.0051E 03	
8.5047	1.9842E 03	1.9842E 03	
8.5722	1.9632E 03	1.9632E 03	
8.6396	1.9421E 03	1.9421E 03	
8.7069	1.9208E 03	1.9208E 03	
8.7739	1.8993E 03	1.8993E 03	
8.8408	1.8774E 03	1.8774E 03	

TABLE 7.A (cont.)

Numerical Experiment: Distortion

DATA ANALYSIS
EXPERIMENT OF 6/16/71, T=143 DEG K, RHO=0.91 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
0.3	-1.2646	-7.8693	
0.4	-0.8946	-7.3072	
0.5	-0.5133	-6.6965	
0.6	-0.1687	-6.0960	
0.7	0.1003	-5.5556	
0.8	0.2699	-5.1090	
0.9	0.3341	-4.7707	
1.0	0.3052	-4.5349	
1.1	0.2095	-4.3794	
1.2	0.0820	-4.2714	
1.3	-0.0409	-4.1747	
1.4	-0.1280	-4.0571	
1.5	-0.1593	-3.8968	
1.6	-0.1290	-3.6858	
1.7	-0.0455	-3.4304	
1.8	0.0705	-3.1496	
1.9	0.1916	-2.8698	
2.0	0.2891	-2.6189	
2.1	0.3397	-2.4203	
2.2	0.3298	-2.2875	
2.3	0.2589	-2.2212	
2.4	0.1399	-2.2085	
2.5	-0.0031	-2.2252	
2.6	-0.1392	-2.2403	
2.7	-0.2360	-2.2208	
2.8	-0.2656	-2.1387	
2.9	-0.2095	-1.9750	
3.0	-0.0618	-1.7236	
3.1	0.1702	-1.3921	317.01
3.2	0.4665	-1.0008	163.87
3.3	0.7982	-0.5792	78.02
3.4	1.1320	-0.1611	19.03
3.5	1.4351	0.2201	-23.80
3.6	1.6800	0.5363	-54.99
3.7	1.8482	0.7688	-76.91
3.8	1.9317	0.9097	-91.04
3.9	1.9334	0.9620	-98.42
4.0	1.8654	0.9383	-99.97
4.1	1.7462	0.8576	-96.61
4.2	1.5973	0.7421	-89.35
4.3	1.4397	0.6134	-79.40
4.4	1.2911	0.4896	-68.18

TABLE 7.A (cont.)

Numerical Experiment: Distortion

DATA ANALYSIS
EXPERIMENT OF 6/16/71, T=143 DEG K, RHO=0.91 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
4.5	1.1641	0.3836	-57.16
4.6	1.0653	0.3020	-47.66
4.7	0.9954	0.2458	-40.56
4.8	0.9511	0.2118	-36.03
4.9	0.9261	0.1938	-33.58
5.0	0.9134	0.1850	-32.36
5.1	0.9065	0.1791	-31.48
5.2	0.9008	0.1719	-30.29
5.3	0.8936	0.1613	-28.47
5.4	0.8847	0.1472	-26.03
5.5	0.8751	0.1312	-23.23
5.6	0.8669	0.1154	-20.42
5.7	0.8620	0.1017	-17.95
5.8	0.8620	0.0916	-16.06
5.9	0.8675	0.0852	-14.78
6.0	0.8781	0.0819	-14.00
6.1	0.8926	0.0803	-13.49
6.2	0.9098	0.0789	-12.96
6.3	0.9282	0.0761	-12.23
6.4	0.9466	0.0712	-11.18
6.5	0.9644	0.0641	-9.83
6.6	0.9815	0.0554	-8.31
6.7	0.9980	0.0463	-6.80
6.8	1.0140	0.0381	-5.48
6.9	1.0296	0.0319	-4.50
7.0	1.0447	0.0283	-3.93
7.1	1.0586	0.0274	-3.75
7.2	1.0704	0.0288	-3.90
7.3	1.0791	0.0315	-4.24
7.4	1.0841	0.0346	-4.64
7.5	1.0847	0.0371	-4.97
7.6	1.0810	0.0382	-5.15
7.7	1.0735	0.0379	-5.14
7.8	1.0631	0.0362	-4.95
7.9	1.0511	0.0335	-4.64
8.0	1.0387	0.0306	-4.28
8.1	1.0270	0.0281	-3.96
8.2	1.0168	0.0262	-3.73
8.3	1.0084	0.0251	-3.60
8.4	1.0018	0.0246	-3.56
8.5	0.9965	0.0244	-3.54
8.6	0.9920	0.0238	-3.48

TABLE 7.A (cont.)

Numerical Experiment: Distortion

DATA ANALYSIS
EXPERIMENT OF 6/16/71, T=143 DEG K, RHO=0.91 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
8.7	0.9880	0.0227	-3.32
8.8	0.9841	0.0207	-3.05
8.9	0.9802	0.0180	-2.66
9.0	0.9768	0.0149	-2.20
9.1	0.9741	0.0119	-1.76
9.2	0.9727	0.0096	-1.42
9.3	0.9730	0.0085	-1.25
9.4	0.9752	0.0087	-1.29
9.5	0.9792	0.0104	-1.53
9.6	0.9846	0.0133	-1.94
9.7	0.9908	0.0167	-2.43
9.8	0.9971	0.0201	-2.91
9.9	1.0029	0.0229	-3.30
10.0	1.0074	0.0245	-3.52

TABLE 7.B

Numerical Experiment: Distortion

DATA ANALYSIS
EXPERIMENT OF 6/23/71, T=127 DEG K, RHO=1.116 GM/CC

S	I(S) CORRECTED FOR DISTORTION	I(S) VIEWED FROM 4.8 IN.	I(S) STRUCTURE FACTOR
0.0			-7.7000E-01
0.0772			-7.7449E-01
0.1543			-7.8643E-01
0.2315			-8.0221E-01
0.3086			-8.1805E-01
0.3857			-8.3107E-01
0.4629	2.2352E 03	2.1476E 03	-8.3924E-01
0.5400	2.1223E 03	2.0709E 03	-8.4436E-01
0.6171	2.0383E 03	2.0235E 03	-8.4711E-01
0.6942	1.9946E 03	2.0170E 03	-8.4658E-01
0.7713	2.0028E 03	2.0626E 03	-8.4174E-01
0.8483	2.0744E 03	2.1719E 03	-8.3156E-01
0.9254	2.2210E 03	2.3563E 03	-8.1497E-01
1.0024	2.4540E 03	2.6272E 03	-7.9066E-01
1.0794	2.7848E 03	2.9959E 03	-7.5734E-01
1.1564	3.2250E 03	3.4724E 03	-7.1350E-01
1.2334	3.7858E 03	4.0592E 03	-6.5833E-01
1.3104	4.4532E 03	4.7471E 03	-5.9174E-01
1.3873	5.1952E 03	5.5765E 03	-5.0958E-01
1.4642	6.2077E 03	6.7363E 03	-3.9314E-01
1.5411	7.6975E 03	8.4249E 03	-2.2173E-01
1.6179	9.8700E 03	1.0816E 04	2.5538E-02
1.6947	1.2934E 04	1.3728E 04	3.3652E-01
1.7715	1.5658E 04	1.6105E 04	6.1028E-01
1.8482	1.7279E 04	1.7371E 04	7.8313E-01
1.9249	1.7661E 04	1.7391E 04	8.3226E-01
2.0016	1.6668E 04	1.6050E 04	7.3560E-01
2.0783	1.4213E 04	1.3636E 04	5.1246E-01
2.1549	1.1827E 04	1.1408E 04	2.9776E-01
2.2314	1.0030E 04	9.7291E 03	1.3488E-01
2.3079	8.6962E 03	8.4797E 03	1.4300E-02
2.3844	7.7029E 03	7.5390E 03	-7.5212E-02
2.4608	6.9263E 03	6.7894E 03	-1.4599E-01
2.5372	6.2565E 03	6.1556E 03	-2.0582E-01
2.6135	5.7475E 03	5.6820E 03	-2.4846E-01
2.6898	5.4070E 03	5.3709E 03	-2.7131E-01
2.7660	5.2139E 03	5.2019E 03	-2.7529E-01
2.8422	5.1475E 03	5.1544E 03	-2.6214E-01
2.9183	5.1868E 03	5.2082E 03	-2.3327E-01
2.9944	5.3112E 03	5.3428E 03	-1.9038E-01
3.0704	5.5001E 03	5.5380E 03	-1.3610E-01

TABLE 7.B (cont.)

Numerical Experiment: Distortion

DATA ANALYSIS
EXPERIMENT OF 6/23/71, T=127 DEG K, RHO=1.116 GM/CC

S	I(S) CORRECTED FOR DISTORTION	I(S) VIEWED FROM 4.8 IN.	I(S) STRUCTURE FACTOR
3.1463	5.7329E 03	5.7733E 03	-7.2940E-02
3.2222	5.9870E 03	6.0158E 03	-5.4842E-03
3.2981	6.1727E 03	6.1865E 03	5.1622E-02
3.3738	6.2637E 03	6.2649E 03	9.4234E-02
3.4495	6.2715E 03	6.2622E 03	1.2280E-01
3.5252	6.2074E 03	6.1898E 03	1.3792E-01
3.6007	6.0828E 03	6.0588E 03	1.4137E-01
3.6762	5.9090E 03	5.8804E 03	1.3383E-01
3.7517	5.6972E 03	5.6656E 03	1.1744E-01
3.8270	5.4584E 03	5.4255E 03	9.3451E-02
3.9023	5.2039E 03	5.1710E 03	6.4153E-02
3.9775	4.9446E 03	4.9138E 03	3.1685E-02
4.0526	4.6963E 03	4.6702E 03	-2.9707E-04
4.1277	4.4816E 03	4.4598E 03	-2.7276E-02
4.2027	4.2992E 03	4.2813E 03	-4.8487E-02
4.2776	4.1463E 03	4.1463E 03	-6.0881E-02
4.3524	4.0202E 03	4.0202E 03	-7.2237E-02
4.4271	3.9180E 03	3.9180E 03	-7.9082E-02
4.5018	3.8369E 03	3.8369E 03	-8.1534E-02
4.5764	3.7741E 03	3.7741E 03	-7.9941E-02
4.6508	3.7270E 03	3.7270E 03	-7.4777E-02
4.7252	3.6927E 03	3.6927E 03	-6.6295E-02
4.7995	3.6686E 03	3.6686E 03	-5.5588E-02
4.8737	3.6519E 03	3.6519E 03	-4.2952E-02
4.9478	3.6400E 03	3.6400E 03	-2.8813E-02
5.0219	3.6302E 03	3.6302E 03	-1.4400E-02
5.0958	3.6199E 03	3.6199E 03	-1.6689E-06
5.1696	3.6065E 03	3.6065E 03	
5.2434	3.5873E 03	3.5873E 03	
5.3170	3.5599E 03	3.5599E 03	
5.3905	3.5216E 03	3.5216E 03	
5.4639	3.4699E 03	3.4699E 03	
5.5373	3.4044E 03	3.4044E 03	
5.6105	3.3388E 03	3.3388E 03	
5.6836	3.2757E 03	3.2757E 03	
5.7566	3.2149E 03	3.2149E 03	
5.8295	3.1564E 03	3.1564E 03	
5.9023	3.1001E 03	3.1001E 03	
5.9749	3.0459E 03	3.0459E 03	
6.0475	2.9939E 03	2.9939E 03	
6.1199	2.9438E 03	2.9438E 03	

TABLE 7.B (cont.)

Numerical Experiment: Distortion

DATA ANALYSIS
EXPERIMENT OF 6/23/71, T=127 DEG K, RHO=1.116 GM/CC

S	I(S) CORRECTED FOR DISTORTION	I(S) VIEWED FROM 4.8 IN.	I(S) STRUCTURE FACTOR
6.1923	2.8957E 03	2.8957E 03	
6.2645	2.8494E 03	2.8494E 03	
6.3365	2.8049E 03	2.8049E 03	
6.4085	2.7621E 03	2.7621E 03	
6.4804	2.7210E 03	2.7210E 03	
6.5521	2.6815E 03	2.6815E 03	
6.6237	2.6434E 03	2.6434E 03	
6.6951	2.6069E 03	2.6069E 03	
6.7665	2.5716E 03	2.5716E 03	
6.8377	2.5377E 03	2.5377E 03	
6.9088	2.5051E 03	2.5051E 03	
6.9797	2.4736E 03	2.4736E 03	
7.0506	2.4432E 03	2.4432E 03	
7.1212	2.4139E 03	2.4139E 03	
7.1918	2.3855E 03	2.3855E 03	
7.2622	2.3581E 03	2.3581E 03	
7.3325	2.3315E 03	2.3315E 03	
7.4026	2.3057E 03	2.3057E 03	
7.4726	2.2807E 03	2.2807E 03	
7.5424	2.2563E 03	2.2563E 03	
7.6122	2.2326E 03	2.2326E 03	
7.6817	2.2094E 03	2.2094E 03	
7.7511	2.1867E 03	2.1867E 03	
7.8204	2.1644E 03	2.1644E 03	
7.8895	2.1425E 03	2.1425E 03	
7.9585	2.1209E 03	2.1209E 03	
8.0273	2.0996E 03	2.0996E 03	
8.0960	2.0785E 03	2.0785E 03	
8.1645	2.0576E 03	2.0576E 03	
8.2328	2.0368E 03	2.0368E 03	
8.3010	2.0160E 03	2.0160E 03	
8.3691	1.9952E 03	1.9952E 03	
8.4370	1.9744E 03	1.9744E 03	
8.5047	1.9534E 03	1.9534E 03	
8.5722	1.9323E 03	1.9323E 03	
8.6396	1.9110E 03	1.9110E 03	
8.7069	1.8895E 03	1.8895E 03	
8.7739	1.8676E 03	1.8676E 03	
8.8408	1.8454E 03	1.8454E 03	

TABLE 7.B (cont.)

Numerical Experiment: Distortion

DATA ANALYSIS
EXPERIMENT OF 6/23/71, T=127 DEG K, RHO=1.116 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
0.3	-1.1915	-11.5857	
0.4	-0.7564	-10.8527	
0.5	-0.3027	-10.0407	
0.6	0.1142	-9.2205	
0.7	0.4479	-8.4542	
0.8	0.6673	-7.7874	
0.9	0.7611	-7.2445	
1.0	0.7371	-6.8276	
1.1	0.6204	-6.5191	
1.2	0.4472	-6.2874	
1.3	0.2578	-6.0942	
1.4	0.0893	-5.9023	
1.5	-0.0306	-5.6829	
1.6	-0.0877	-5.4200	
1.7	-0.0829	-5.1123	
1.8	-0.0302	-4.7722	
1.9	0.0469	-4.4217	
2.0	0.1215	-4.0869	
2.1	0.1688	-3.7920	
2.2	0.1720	-3.5536	
2.3	0.1253	-3.3768	
2.4	0.0359	-3.2539	
2.5	-0.0777	-3.1654	
2.6	-0.1887	-3.0836	
2.7	-0.2675	-2.9775	
2.8	-0.2865	-2.8185	
2.9	-0.2258	-2.5860	
3.0	-0.0766	-2.2704	
3.1	0.1572	-1.8761	325.12
3.2	0.4590	-1.4199	178.99
3.3	0.8024	-0.9295	97.70
3.4	1.1551	-0.4382	40.85
3.5	1.4834	0.0189	-1.63
3.6	1.7576	0.4113	-33.85
3.7	1.9555	0.7158	-57.88
3.8	2.0651	0.9202	-74.91
3.9	2.0853	1.0237	-85.75
4.0	2.0252	1.0361	-91.02
4.1	1.9015	0.9752	-91.35
4.2	1.7356	0.8637	-87.43
4.3	1.5503	0.7254	-80.13
4.4	1.3661	0.5820	-70.51

TABLE 7.B (cont.)

Numerical Experiment: Distortion

DATA ANALYSIS
EXPERIMENT OF 6/23/71, T=127 DEG K, RHO=1.116 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
4.5	1.1990	0.4505	-59.84
4.6	1.0597	0.3420	-49.49
4.7	0.9526	0.2613	-40.72
4.8	0.8769	0.2078	-34.35
4.9	0.8283	0.1771	-30.55
5.0	0.8002	0.1626	-28.84
5.1	0.7857	0.1574	-28.40
5.2	0.7790	0.1560	-28.37
5.3	0.7762	0.1544	-28.16
5.4	0.7753	0.1509	-27.49
5.5	0.7759	0.1456	-26.39
5.6	0.7792	0.1397	-25.09
5.7	0.7865	0.1346	-23.84
5.8	0.7988	0.1315	-22.84
5.9	0.8168	0.1306	-22.14
6.0	0.8399	0.1315	-21.62
6.1	0.8669	0.1326	-21.08
6.2	0.8962	0.1323	-20.28
6.3	0.9259	0.1289	-19.03
6.4	0.9544	0.1214	-17.27
6.5	0.9809	0.1096	-15.05
6.6	1.0049	0.0943	-12.51
6.7	1.0265	0.0769	-9.89
6.8	1.0460	0.0594	-7.43
6.9	1.0640	0.0437	-5.33
7.0	1.0805	0.0314	-3.74
7.1	1.0953	0.0233	-2.73
7.2	1.1078	0.0196	-2.26
7.3	1.1171	0.0196	-2.24
7.4	1.1222	0.0221	-2.53
7.5	1.1222	0.0258	-2.95
7.6	1.1166	0.0292	-3.37
7.7	1.1057	0.0314	-3.66
7.8	1.0901	0.0317	-3.75
7.9	1.0711	0.0301	-3.62
8.0	1.0503	0.0270	-3.30
8.1	1.0292	0.0228	-2.84
8.2	1.0093	0.0182	-2.32
8.3	0.9917	0.0138	-1.78
8.4	0.9770	0.0096	-1.26
8.5	0.9653	0.0058	-0.77
8.6	0.9564	0.0021	-0.28

TABLE 7.B (cont.)

Numerical Experiment: Distortion

DATA ANALYSIS
EXPERIMENT OF 6/23/71, T=127 DEG K, RHO=1.116 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
8.7	0.9498	-0.0019	0.25
8.8	0.9451	-0.0063	0.85
8.9	0.9418	-0.0114	1.52
9.0	0.9399	-0.0168	2.25
9.1	0.9393	-0.0221	2.96
9.2	0.9404	-0.0269	3.58
9.3	0.9434	-0.0303	4.02
9.4	0.9486	-0.0320	4.22
9.5	0.9559	-0.0316	4.14
9.6	0.9652	-0.0292	3.78
9.7	0.9759	-0.0249	3.20
9.8	0.9872	-0.0195	2.49
9.9	0.9984	-0.0137	1.73
10.0	1.0085	-0.0081	1.02

TABLE 7.C

Numerical Experiment: Distortion

DATA ANALYSIS
EXPERIMENT OF 9/28/71(I), T=133 DEG K, RHO=1.054 GM/CC

S	I(S) CORRECTED FOR DISTORTION	I(S) VIEWED FROM 4.8 IN.	I(S) STRUCTURE FACTOR
0.0			-6.0000E-01
0.0772			-6.1729E-01
0.1543			-6.5943E-01
0.2315			-7.0785E-01
0.3086			-7.4967E-01
0.3857			-7.7986E-01
0.4629	2.8053E 03	2.6449E 03	-7.9697E-01
0.5400	2.6148E 03	2.5001E 03	-8.0710E-01
0.6171	2.4533E 03	2.3849E 03	-8.1489E-01
0.6942	2.3354E 03	2.3140E 03	-8.1903E-01
0.7713	2.2756E 03	2.3014E 03	-8.1843E-01
0.8483	2.2885E 03	2.3619E 03	-8.1168E-01
0.9254	2.3886E 03	2.5097E 03	-7.9729E-01
1.0024	2.5904E 03	2.7594E 03	-7.7380E-01
1.0794	2.9084E 03	3.1253E 03	-7.3936E-01
1.1564	3.3570E 03	3.6213E 03	-6.9217E-01
1.2334	3.9505E 03	4.2588E 03	-6.3042E-01
1.3104	4.6950E 03	5.0456E 03	-5.5240E-01
1.3873	5.5906E 03	6.0064E 03	-4.5489E-01
1.4642	6.7144E 03	7.2154E 03	-3.2914E-01
1.5411	8.1470E 03	8.7508E 03	-1.6592E-01
1.6179	9.9685E 03	1.0677E 04	4.4193E-02
1.6947	1.2261E 04	1.2870E 04	2.9246E-01
1.7715	1.4343E 04	1.4717E 04	5.1801E-01
1.8482	1.5693E 04	1.5794E 04	6.7302E-01
1.9249	1.6099E 04	1.5895E 04	7.2914E-01
2.0016	1.5351E 04	1.4829E 04	6.5688E-01
2.0783	1.3279E 04	1.2777E 04	4.6485E-01
2.1549	1.1200E 04	1.0826E 04	2.7356E-01
2.2314	9.5969E 03	9.3251E 03	1.2538E-01
2.3079	8.3908E 03	8.1970E 03	1.5187E-02
2.3844	7.5014E 03	7.3637E 03	-6.3902E-02
2.4608	6.8490E 03	6.7477E 03	-1.1958E-01
2.5372	6.3538E 03	6.2753E 03	-1.5907E-01
2.6135	5.9575E 03	5.8985E 03	-1.8837E-01
2.6898	5.6507E 03	5.6094E 03	-2.0738E-01
2.7660	5.4294E 03	5.4039E 03	-2.1566E-01
2.8422	5.2893E 03	5.2782E 03	-2.1280E-01
2.9183	5.2265E 03	5.2282E 03	-1.9838E-01
2.9944	5.2368E 03	5.2501E 03	-1.7206E-01
3.0704	5.3162E 03	5.3397E 03	-1.3349E-01

TABLE 7.C (cont.)

Numerical Experiment: Distortion

DATA ANALYSIS
EXPERIMENT OF 9/28/71(I), T=133 DEG K, RHO=1.054 GM/CC

S	I(S) CORRECTED FOR DISTORTION	I(S) VIEWED FROM 4.8 IN.	I(S) STRUCTURE FACTOR
3.1463	5.4606E 03	5.4928E 03	-8.2554E-02
3.2222	5.6632E 03	5.6880E 03	-2.1913E-02
3.2981	5.8234E 03	5.8357E 03	3.2315E-02
3.3738	5.9047E 03	5.9064E 03	7.3821E-02
3.4495	5.9162E 03	5.9091E 03	1.0316E-01
3.5252	5.8672E 03	5.8531E 03	1.2109E-01
3.6007	5.7669E 03	5.7472E 03	1.2851E-01
3.6762	5.6244E 03	5.6007E 03	1.2674E-01
3.7517	5.4487E 03	5.4223E 03	1.1648E-01
3.8270	5.2490E 03	5.2212E 03	9.9216E-02
3.9023	5.0341E 03	5.0061E 03	7.6923E-02
3.9775	4.8130E 03	4.7858E 03	5.1455E-02
4.0526	4.5945E 03	4.5693E 03	2.4234E-02
4.1277	4.3875E 03	4.3652E 03	-2.0657E-03
4.2027	4.2007E 03	4.1820E 03	-2.5617E-02
4.2776	4.0407E 03	4.0407E 03	-4.0131E-02
4.3524	3.9068E 03	3.9068E 03	-5.4363E-02
4.4271	3.7963E 03	3.7963E 03	-6.4047E-02
4.5018	3.7066E 03	3.7066E 03	-6.9051E-02
4.5764	3.6354E 03	3.6354E 03	-6.9938E-02
4.6508	3.5800E 03	3.5800E 03	-6.7101E-02
4.7252	3.5381E 03	3.5381E 03	-6.0958E-02
4.7995	3.5071E 03	3.5071E 03	-5.2057E-02
4.8737	3.4845E 03	3.4845E 03	-4.0890E-02
4.9478	3.4680E 03	3.4680E 03	-2.8106E-02
5.0219	3.4552E 03	3.4552E 03	-1.4044E-02
5.0958	3.4436E 03	3.4436E 03	-2.4438E-06
5.1696	3.4309E 03	3.4309E 03	
5.2434	3.4147E 03	3.4147E 03	
5.3170	3.3926E 03	3.3926E 03	
5.3905	3.3624E 03	3.3624E 03	
5.4639	3.3218E 03	3.3218E 03	
5.5373	3.2702E 03	3.2702E 03	
5.6105	3.2178E 03	3.2178E 03	
5.6836	3.1668E 03	3.1668E 03	
5.7566	3.1170E 03	3.1170E 03	
5.8295	3.0685E 03	3.0685E 03	
5.9023	3.0212E 03	3.0212E 03	
5.9749	2.9751E 03	2.9751E 03	
6.0475	2.9302E 03	2.9302E 03	
6.1199	2.8864E 03	2.8864E 03	

TABLE 7.C (cont.)

Numerical Experiment: Distortion

DATA ANALYSIS
EXPERIMENT OF 9/28/71(I), T=133 DEG K, RHO=1.054 GM/CC

S	I(S) CORRECTED FOR DISTORTION	I(S) VIEWED FROM 4.8 IN.	I(S) STRUCTURE FACTOR
6.1923	2.8437E 03	2.8437E 03	
6.2645	2.8021E 03	2.8021E 03	
6.3365	2.7615E 03	2.7615E 03	
6.4085	2.7219E 03	2.7219E 03	
6.4804	2.6833E 03	2.6833E 03	
6.5521	2.6457E 03	2.6457E 03	
6.6237	2.6089E 03	2.6089E 03	
6.6951	2.5731E 03	2.5731E 03	
6.7665	2.5381E 03	2.5381E 03	
6.8377	2.5039E 03	2.5039E 03	
6.9088	2.4705E 03	2.4705E 03	
6.9797	2.4379E 03	2.4379E 03	
7.0506	2.4061E 03	2.4061E 03	
7.1212	2.3749E 03	2.3749E 03	
7.1918	2.3445E 03	2.3445E 03	
7.2622	2.3147E 03	2.3147E 03	
7.3325	2.2855E 03	2.2855E 03	
7.4026	2.2569E 03	2.2569E 03	
7.4726	2.2289E 03	2.2289E 03	
7.5424	2.2015E 03	2.2015E 03	
7.6122	2.1745E 03	2.1745E 03	
7.6817	2.1481E 03	2.1481E 03	
7.7511	2.1221E 03	2.1221E 03	
7.8204	2.0966E 03	2.0966E 03	
7.8895	2.0715E 03	2.0715E 03	
7.9585	2.0468E 03	2.0468E 03	
8.0273	2.0225E 03	2.0225E 03	
8.0960	1.9985E 03	1.9985E 03	
8.1645	1.9748E 03	1.9748E 03	
8.2328	1.9514E 03	1.9514E 03	
8.3010	1.9283E 03	1.9283E 03	
8.3691	1.9054E 03	1.9054E 03	
8.4370	1.8828E 03	1.8828E 03	
8.5047	1.8604E 03	1.8604E 03	
8.5722	1.8381E 03	1.8381E 03	
8.6396	1.8160E 03	1.8160E 03	
8.7069	1.7940E 03	1.7940E 03	
8.7739	1.7722E 03	1.7722E 03	
8.8408	1.7504E 03	1.7504E 03	

TABLE 7.C (cont.)

Numerical Experiment: Distortion

DATA ANALYSIS
EXPERIMENT OF 9/28/71(I), T=133 DEG K, RHO=1.054 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
0.3	-0.6034	-9.5425	
0.4	-0.2904	-8.9881	
0.5	0.0279	-8.3795	
0.6	0.3084	-7.7719	
0.7	0.5163	-7.2126	
0.8	0.6304	-6.7347	
0.9	0.6456	-6.3531	
1.0	0.5731	-6.0649	
1.1	0.4372	-5.8512	
1.2	0.2704	-5.6831	
1.3	0.1067	-5.5278	
1.4	-0.0244	-5.3556	
1.5	-0.1029	-5.1456	
1.6	-0.1218	-4.8890	
1.7	-0.0870	-4.5903	
1.8	-0.0156	-4.2652	
1.9	0.0686	-3.9370	
2.0	0.1402	-3.6306	
2.1	0.1776	-3.3675	
2.2	0.1681	-3.1608	
2.3	0.1103	-3.0120	
2.4	0.0148	-2.9107	
2.5	-0.0976	-2.8360	
2.6	-0.1998	-2.7601	
2.7	-0.2630	-2.6539	
2.8	-0.2622	-2.4917	
2.9	-0.1809	-2.2565	
3.0	-0.0138	-1.9426	
3.1	0.2316	-1.5575	271.93
3.2	0.5364	-1.1202	149.98
3.3	0.8729	-0.6589	74.79
3.4	1.2092	-0.2060	20.92
3.5	1.5134	0.2061	-19.48
3.6	1.7585	0.5502	-49.91
3.7	1.9260	0.8074	-72.27
3.8	2.0075	0.9695	-87.73
3.9	2.0053	1.0393	-97.14
4.0	1.9309	1.0289	-101.23
4.1	1.8027	0.9574	-100.72
4.2	1.6423	0.8470	-96.45
4.3	1.4711	0.7202	-89.43
4.4	1.3078	0.5958	-80.87

TABLE 7.C (cont.)

Numerical Experiment: Distortion

DATA ANALYSIS
EXPERIMENT OF 9/28/71(I), T=133 DEG K, RHO=1.054 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
4.5	1.1659	0.4879	-72.10
4.6	1.0529	0.4040	-64.38
4.7	0.9706	0.3460	-58.61
4.8	0.9160	0.3106	-55.07
4.9	0.8830	0.2917	-53.34
5.0	0.8644	0.2822	-52.57
5.1	0.8533	0.2753	-51.81
5.2	0.8447	0.2661	-50.33
5.3	0.8356	0.2522	-47.78
5.4	0.8257	0.2334	-44.19
5.5	0.8161	0.2114	-39.88
5.6	0.8090	0.1887	-35.33
5.7	0.8068	0.1680	-31.05
5.8	0.8113	0.1510	-27.39
5.9	0.8231	0.1385	-24.50
6.0	0.8418	0.1299	-22.29
6.1	0.8658	0.1238	-20.52
6.2	0.8931	0.1182	-18.87
6.3	0.9216	0.1112	-17.11
6.4	0.9493	0.1017	-15.07
6.5	0.9751	0.0892	-12.76
6.6	0.9983	0.0743	-10.28
6.7	1.0192	0.0583	-7.84
6.8	1.0381	0.0431	-5.64
6.9	1.0555	0.0302	-3.86
7.0	1.0717	0.0210	-2.63
7.1	1.0865	0.0160	-1.98
7.2	1.0992	0.0150	-1.83
7.3	1.1088	0.0170	-2.06
7.4	1.1144	0.0205	-2.47
7.5	1.1148	0.0240	-2.89
7.6	1.1097	0.0260	-3.15
7.7	1.0991	0.0255	-3.12
7.8	1.0836	0.0223	-2.76
7.9	1.0647	0.0165	-2.08
8.0	1.0438	0.0089	-1.14
8.1	1.0227	0.0006	-0.08
8.2	1.0029	-0.0074	0.98
8.3	0.9857	-0.0144	1.93
8.4	0.9716	-0.0197	2.67
8.5	0.9610	-0.0233	3.18
8.6	0.9535	-0.0253	3.48

TABLE 7.C (cont.)

Numerical Experiment: Distortion

DATA ANALYSIS
EXPERIMENT OF 9/28/71(I), T=133 DEG K, RHO=1.054 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
8.7	0.9488	-0.0261	3.61
8.8	0.9462	-0.0262	3.64
8.9	0.9453	-0.0259	3.60
9.0	0.9459	-0.0254	3.52
9.1	0.9478	-0.0246	3.40
9.2	0.9512	-0.0232	3.21
9.3	0.9560	-0.0211	2.90
9.4	0.9626	-0.0179	2.45
9.5	0.9706	-0.0137	1.86
9.6	0.9799	-0.0085	1.14
9.7	0.9898	-0.0027	0.37
9.8	0.9997	0.0030	-0.40
9.9	1.0088	0.0081	-1.07
10.0	1.0164	0.0120	-1.58

TABLE 7.D

Numerical Experiment: Distortion

DATA ANALYSIS
EXPERIMENT OF 11/30/71, T=143 DEG K, RHO=0.91 GM/CC

S	I(S) CORRECTED FOR DISTORTION	I(S) VIEWED FROM 4.8 IN.	I(S) STRUCTURE FACTOR
0.0			2.9000E-01
0.0772			1.2012E-01
0.1543			-1.8622E-01
0.2315			-4.2315E-01
0.3086			-5.6966E-01
0.3857			-6.5316E-01
0.4629	4.5851E 03	4.2294E 03	-6.9347E-01
0.5400	4.1756E 03	3.9045E 03	-7.1517E-01
0.6171	3.8112E 03	3.6260E 03	-7.3351E-01
0.6942	3.5189E 03	3.4209E 03	-7.4639E-01
0.7713	3.3257E 03	3.3154E 03	-7.5165E-01
0.8483	3.2587E 03	3.3361E 03	-7.4707E-01
0.9254	3.3447E 03	3.5063E 03	-7.3049E-01
1.0024	3.6134E 03	3.8365E 03	-7.0042E-01
1.0794	4.0477E 03	4.3024E 03	-6.5807E-01
1.1564	4.5817E 03	4.8757E 03	-6.0502E-01
1.2334	5.2435E 03	5.5830E 03	-5.3832E-01
1.3104	6.0611E 03	6.4512E 03	-4.5455E-01
1.3873	7.0620E 03	7.5072E 03	-3.5047E-01
1.4642	8.2738E 03	8.7776E 03	-2.2185E-01
1.5411	9.7239E 03	1.0289E 04	-6.4685E-02
1.6179	1.1440E 04	1.2053E 04	1.2436E-01
1.6947	1.3450E 04	1.3842E 04	3.2589E-01
1.7715	1.4813E 04	1.4921E 04	4.6827E-01
1.8482	1.5223E 04	1.5124E 04	5.2862E-01
1.9249	1.4877E 04	1.4638E 04	5.1952E-01
2.0016	1.3974E 04	1.3654E 04	4.5618E-01
2.0783	1.2709E 04	1.2361E 04	3.5432E-01
2.1549	1.1277E 04	1.0949E 04	2.3237E-01
2.2314	9.8722E 03	9.6055E 03	1.1026E-01
2.3079	8.6883E 03	8.5064E 03	9.6254E-03
2.3844	7.8539E 03	7.7145E 03	-5.9485E-02
2.4608	7.1935E 03	7.0867E 03	-1.1249E-01
2.5372	6.6711E 03	6.5921E 03	-1.5145E-01
2.6135	6.2726E 03	6.2170E 03	-1.7776E-01
2.6898	5.9837E 03	5.9475E 03	-1.9161E-01
2.7660	5.7902E 03	5.7698E 03	-1.9379E-01
2.8422	5.6780E 03	5.6701E 03	-1.8522E-01
2.9183	5.6331E 03	5.6345E 03	-1.6705E-01
2.9944	5.6415E 03	5.6482E 03	-1.4065E-01
3.0704	5.6817E 03	5.6897E 03	-1.0922E-01

TABLE 7.D (cont.)

Numerical Experiment: Distortion

DATA ANALYSIS
EXPERIMENT OF 11/30/71, T=143 DEG K, RHO=0.91 GM/CC

S	I(S) CORRECTED FOR DISTORTION	I(S) VIEWED FROM 4.8 IN.	I(S) STRUCTURE FACTOR
3.1463	5.7306E 03	5.7388E 03	-7.5702E-02
3.2222	5.7823E 03	5.7899E 03	-4.0582E-02
3.2981	5.8312E 03	5.8373E 03	-5.3719E-03
3.3738	5.8715E 03	5.8754E 03	2.9072E-02
3.4495	5.8978E 03	5.8988E 03	6.1779E-02
3.5252	5.9044E 03	5.9018E 03	9.0960E-02
3.6007	5.8858E 03	5.8790E 03	1.1565E-01
3.6762	5.8365E 03	5.8249E 03	1.3381E-01
3.7517	5.7510E 03	5.7341E 03	1.4425E-01
3.8270	5.6238E 03	5.6012E 03	1.4444E-01
3.9023	5.4495E 03	5.4208E 03	1.3309E-01
3.9775	5.2229E 03	5.1899E 03	1.0867E-01
4.0526	4.9571E 03	4.9277E 03	7.4284E-02
4.1277	4.7157E 03	4.6902E 03	4.3189E-02
4.2027	4.5023E 03	4.4804E 03	1.6242E-02
4.2776	4.3149E 03	4.3149E 03	-2.1223E-03
4.3524	4.1515E 03	4.1515E 03	-2.1599E-02
4.4271	4.0103E 03	4.0103E 03	-3.7364E-02
4.5018	3.8892E 03	3.8892E 03	-4.9129E-02
4.5764	3.7864E 03	3.7864E 03	-5.7328E-02
4.6508	3.6998E 03	3.6998E 03	-6.2160E-02
4.7252	3.6277E 03	3.6277E 03	-6.3858E-02
4.7995	3.5681E 03	3.5681E 03	-6.2760E-02
4.8737	3.5191E 03	3.5191E 03	-5.9148E-02
4.9478	3.4789E 03	3.4789E 03	-5.3438E-02
5.0219	3.4456E 03	3.4456E 03	-4.5985E-02
5.0958	3.4174E 03	3.4174E 03	-3.7306E-02
5.1696	3.3924E 03	3.3924E 03	-2.7816E-02
5.2434	3.3689E 03	3.3689E 03	-1.7855E-02
5.3170	3.3450E 03	3.3450E 03	-8.4471E-03
5.3905	3.3189E 03	3.3189E 03	-2.2054E-06
5.4639	3.2889E 03	3.2889E 03	
5.5373	3.2533E 03	3.2533E 03	
5.6105	3.2103E 03	3.2103E 03	
5.6836	3.1581E 03	3.1581E 03	
5.7566	3.0989E 03	3.0989E 03	
5.8295	3.0413E 03	3.0413E 03	
5.9023	2.9858E 03	2.9858E 03	
5.9749	2.9324E 03	2.9324E 03	
6.0475	2.8808E 03	2.8808E 03	
6.1199	2.8311E 03	2.8311E 03	

TABLE 7.D (cont.)

Numerical Experiment: Distortion

DATA ANALYSIS
EXPERIMENT OF 11/30/71, T=143 DEG K, RHO=0.91 GM/CC

S	I(S) CORRECTED FOR DISTORTION	I(S) VIEWED FROM 4.8 IN.	I(S) STRUCTURE FACTOR
6.1923	2.7832E 03	2.7832E 03	
6.2645	2.7371E 03	2.7371E 03	
6.3365	2.6926E 03	2.6926E 03	
6.4085	2.6498E 03	2.6498E 03	
6.4804	2.6085E 03	2.6085E 03	
6.5521	2.5688E 03	2.5688E 03	
6.6237	2.5304E 03	2.5304E 03	
6.6951	2.4935E 03	2.4935E 03	
6.7665	2.4578E 03	2.4578E 03	
6.8377	2.4234E 03	2.4234E 03	
6.9088	2.3902E 03	2.3902E 03	
6.9797	2.3581E 03	2.3581E 03	
7.0506	2.3272E 03	2.3272E 03	
7.1212	2.2972E 03	2.2972E 03	
7.1918	2.2682E 03	2.2682E 03	
7.2622	2.2402E 03	2.2402E 03	
7.3325	2.2129E 03	2.2129E 03	
7.4026	2.1865E 03	2.1865E 03	
7.4726	2.1608E 03	2.1608E 03	
7.5424	2.1359E 03	2.1359E 03	
7.6122	2.1115E 03	2.1115E 03	
7.6817	2.0878E 03	2.0878E 03	
7.7511	2.0646E 03	2.0646E 03	
7.8204	2.0418E 03	2.0418E 03	
7.8895	2.0195E 03	2.0195E 03	
7.9585	1.9976E 03	1.9976E 03	
8.0273	1.9760E 03	1.9760E 03	
8.0960	1.9547E 03	1.9547E 03	
8.1645	1.9336E 03	1.9336E 03	
8.2328	1.9127E 03	1.9127E 03	
8.3010	1.8919E 03	1.8919E 03	
8.3691	1.8713E 03	1.8713E 03	
8.4370	1.8507E 03	1.8507E 03	
8.5047	1.8300E 03	1.8300E 03	
8.5722	1.8094E 03	1.8094E 03	
8.6396	1.7886E 03	1.7886E 03	
8.7069	1.7677E 03	1.7677E 03	
8.7739	1.7467E 03	1.7467E 03	
8.8408	1.7254E 03	1.7254E 03	

TABLE 7.D (cont.)

Numerical Experiment: Distortion

DATA ANALYSIS
EXPERIMENT OF 11/30/71, T=143 DEG K, RHO=0.91 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
0.3	-0.4199	-7.2913	
0.4	-0.0771	-6.7149	
0.5	0.2495	-6.1128	
0.6	0.5063	-5.5537	
0.7	0.6545	-5.0907	
0.8	0.6776	-4.7533	
0.9	0.5834	-4.5438	
1.0	0.4019	-4.4392	
1.1	0.1782	-4.3981	
1.2	-0.0367	-4.3703	
1.3	-0.1967	-4.3081	
1.4	-0.2700	-4.1762	
1.5	-0.2444	-3.9589	
1.6	-0.1299	-3.6625	
1.7	0.0442	-3.3133	
1.8	0.2361	-2.9511	
1.9	0.4003	-2.6208	
2.0	0.4971	-2.3619	
2.1	0.5012	-2.2004	
2.2	0.4065	-2.1434	
2.3	0.2279	-2.1769	
2.4	-0.0017	-2.2685	
2.5	-0.2376	-2.3738	
2.6	-0.4316	-2.4444	
2.7	-0.5410	-2.4373	
2.8	-0.5360	-2.3219	
2.9	-0.4049	-2.0863	
3.0	-0.1557	-1.7378	
3.1	0.1860	-1.3021	297.36
3.2	0.5815	-0.8177	125.56
3.3	0.9861	-0.3295	41.22
3.4	1.3565	0.1192	-13.15
3.5	1.6572	0.4926	-50.44
3.6	1.8650	0.7678	-75.86
3.7	1.9718	0.9367	-92.16
3.8	1.9831	1.0053	-101.11
3.9	1.9162	0.9908	-104.09
4.0	1.7950	0.9177	-102.38
4.1	1.6458	0.8122	-97.27
4.2	1.4926	0.6982	-90.19
4.3	1.3537	0.5939	-82.59
4.4	1.2404	0.5101	-75.75

TABLE 7.D (cont.)

Numerical Experiment: Distortion

DATA ANALYSIS
EXPERIMENT OF 11/30/71, T=143 DEG K, RHO=0.91 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
4.5	1.1563	0.4501	-70.52
4.6	1.0989	0.4114	-67.07
4.7	1.0616	0.3873	-64.91
4.8	1.0364	0.3703	-63.21
4.9	1.0156	0.3532	-61.11
5.0	0.9937	0.3315	-58.04
5.1	0.9681	0.3036	-53.80
5.2	0.9389	0.2704	-48.58
5.3	0.9081	0.2350	-42.82
5.4	0.8791	0.2008	-37.09
5.5	0.8549	0.1712	-31.95
5.6	0.8379	0.1480	-27.79
5.7	0.8294	0.1319	-24.76
5.8	0.8293	0.1218	-22.72
5.9	0.8368	0.1160	-21.34
6.0	0.8503	0.1123	-20.25
6.1	0.8684	0.1087	-19.12
6.2	0.8898	0.1040	-17.77
6.3	0.9136	0.0979	-16.20
6.4	0.9392	0.0906	-14.51
6.5	0.9660	0.0830	-12.85
6.6	0.9932	0.0759	-11.36
6.7	1.0199	0.0696	-10.11
6.8	1.0445	0.0643	-9.08
6.9	1.0656	0.0594	-8.21
7.0	1.0817	0.0543	-7.36
7.1	1.0915	0.0481	-6.44
7.2	1.0948	0.0402	-5.36
7.3	1.0918	0.0308	-4.09
7.4	1.0837	0.0203	-2.70
7.5	1.0723	0.0096	-1.29
7.6	1.0596	0.0001	-0.01
7.7	1.0474	-0.0072	0.98
7.8	1.0372	-0.0114	1.57
7.9	1.0297	-0.0124	1.71
8.0	1.0250	-0.0105	1.46
8.1	1.0222	-0.0066	0.92
8.2	1.0204	-0.0019	0.27
8.3	1.0183	0.0021	-0.30
8.4	1.0149	0.0046	-0.65
8.5	1.0097	0.0049	-0.70
8.6	1.0027	0.0029	-0.41

TABLE 7.D (cont.)

Numerical Experiment: Distortion

DATA ANALYSIS
EXPERIMENT OF 11/30/71, T=143 DEG K, RHO=0.91 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
8.7	0.9945	-0.0009	0.13
8.8	0.9859	-0.0058	0.83
8.9	0.9780	-0.0106	1.55
9.0	0.9719	-0.0146	2.13
9.1	0.9681	-0.0171	2.50
9.2	0.9671	-0.0178	2.60
9.3	0.9687	-0.0167	2.45
9.4	0.9724	-0.0143	2.09
9.5	0.9775	-0.0112	1.63
9.6	0.9833	-0.0079	1.15
9.7	0.9892	-0.0049	0.70
9.8	0.9947	-0.0024	0.34
9.9	0.9996	-0.0005	0.07
10.0	1.0037	0.0009	-0.12

TABLE 8.

Summary of Effect of Distortion on PY Well Depth

Run No.	Date	Temperature	Density	min. PY u(r)/k not corrected	min. PY u(r)/k corrected
2	6/16/71	143°K	0.91 gm/cc	-100.1°K	-111.6°K
3	6/23/71	127	1.116	-91.8	-107.3
7	9/28/71	133	1.054	-101.5	-119.5
8	11/30/71	143	0.91	-104.1	-120.9

TABLE 9.

Numerical Experiment: Subsidiary Peak

DATA ANALYSIS
EXPERIMENT OF 6/23/71, T=127 DEG K, RHO=1.116 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
0.0			-7.7000E-01
0.0772			-7.7359E-01
0.1543			-7.8337E-01
0.2315			-7.9687E-01
0.3086			-8.1126E-01
0.3857			-8.2420E-01
0.4629	2.1789E 03	2.2351E 03	-8.3399E-01
0.5400	2.0851E 03	2.1223E 03	-8.4175E-01
0.6171	2.0203E 03	2.0382E 03	-8.4723E-01
0.6942	1.9959E 03	1.9945E 03	-8.4955E-01
0.7713	2.0234E 03	2.0027E 03	-8.4766E-01
0.8483	2.1143E 03	2.0744E 03	-8.4059E-01
0.9254	2.2801E 03	2.2210E 03	-8.2725E-01
1.0024	2.5324E 03	2.4540E 03	-8.0636E-01
1.0794	2.8825E 03	2.7849E 03	-7.7665E-01
1.1564	3.3418E 03	3.2251E 03	-7.3651E-01
1.2334	3.9219E 03	3.7861E 03	-6.8439E-01
1.3104	4.5898E 03	4.4535E 03	-6.2060E-01
1.3873	5.3624E 03	5.1951E 03	-5.4744E-01
1.4642	6.4377E 03	6.2072E 03	-4.4612E-01
1.5411	8.0176E 03	7.6968E 03	-2.9568E-01
1.6179	1.0304E 04	9.8699E 03	-7.2786E-02
1.6947	1.3394E 04	1.2935E 04	2.4842E-01
1.7715	1.5946E 04	1.5659E 04	5.5265E-01
1.8482	1.7391E 04	1.7279E 04	7.5924E-01
1.9249	1.7593E 04	1.7660E 04	8.4575E-01
2.0016	1.6421E 04	1.6668E 04	7.8855E-01
2.0783	1.3898E 04	1.4217E 04	5.6495E-01
2.1549	1.1597E 04	1.1831E 04	3.3579E-01
2.2314	9.8602E 03	1.0029E 04	1.6103E-01
2.3079	8.5691E 03	8.6900E 03	3.1543E-02
2.3844	7.6054E 03	7.6940E 03	-6.3429E-02
2.4608	6.8510E 03	6.9215E 03	-1.3603E-01
2.5372	6.2086E 03	6.2648E 03	-1.9792E-01
2.6135	5.7247E 03	5.7631E 03	-2.4364E-01
2.6898	5.3983E 03	5.4218E 03	-2.7025E-01
2.7660	5.2106E 03	5.2217E 03	-2.7850E-01
2.8422	5.1427E 03	5.1438E 03	-2.6994E-01
2.9183	5.1757E 03	5.1690E 03	-2.4575E-01
2.9944	5.2911E 03	5.2785E 03	-2.0736E-01
3.0704	5.4702E 03	5.4536E 03	-1.5711E-01

TABLE 9. (cont.)

Numerical Experiment: Subsidiary Peak

DATA ANALYSIS
EXPERIMENT OF 6/23/71, T=127 DEG K, RHO=1.116 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
3.1463	5.6944E 03	5.6754E 03	-9.7105E-02
3.2222	5.9414E 03	5.9237E 03	-2.9689E-02
3.2981	6.1351E 03	6.1235E 03	3.1650E-02
3.3738	6.2548E 03	6.2487E 03	8.2114E-02
3.4495	6.3044E 03	6.3033E 03	1.2104E-01
3.5252	6.2877E 03	6.2911E 03	1.4777E-01
3.6007	6.2084E 03	6.2159E 03	1.6267E-01
3.6762	6.0704E 03	6.0814E 03	1.6488E-01
3.7517	5.8774E 03	5.8916E 03	1.5484E-01
3.8270	5.6332E 03	5.6502E 03	1.3193E-01
3.9023	5.3414E 03	5.3608E 03	9.6444E-02
3.9775	5.0058E 03	5.0274E 03	4.8210E-02
4.0526	4.6588E 03	4.6773E 03	-7.3027E-03
4.1277	4.3811E 03	4.3951E 03	-5.0886E-02
4.2027	4.1691E 03	4.1793E 03	-8.1240E-02
4.2776	4.0141E 03	4.0212E 03	-9.9798E-02
4.3524	3.9074E 03	3.9120E 03	-1.0755E-01
4.4271	3.8402E 03	3.8429E 03	-1.0647E-01
4.5018	3.8040E 03	3.8052E 03	-9.7951E-02
4.5764	3.7901E 03	3.7904E 03	-8.3737E-02
4.6508	3.7901E 03	3.7899E 03	-6.5810E-02
4.7252	3.7954E 03	3.7951E 03	-4.6042E-02
4.7995	3.7976E 03	3.7977E 03	-2.7275E-02
4.8737	3.7885E 03	3.7893E 03	-1.1656E-02
4.9478	3.7596E 03	3.7616E 03	-1.5656E-03
5.0219	3.7045E 03	3.7073E 03	-2.0266E-06
5.0958	3.6428E 03	3.6455E 03	
5.1696	3.5827E 03	3.5853E 03	
5.2434	3.5243E 03	3.5267E 03	
5.3170	3.4674E 03	3.4697E 03	
5.3905	3.4121E 03	3.4143E 03	
5.4639	3.3583E 03	3.3604E 03	
5.5373	3.3059E 03	3.3080E 03	
5.6105	3.2550E 03	3.2570E 03	
5.6836	3.2055E 03	3.2074E 03	
5.7566	3.1574E 03	3.1591E 03	
5.8295	3.1105E 03	3.1122E 03	
5.9023	3.0649E 03	3.0666E 03	
5.9749	3.0206E 03	3.0222E 03	
6.0475	2.9775E 03	2.9790E 03	
6.1199	2.9355E 03	2.9370E 03	

TABLE 9. (cont.)

Numerical Experiment: Subsidiary Peak

DATA ANALYSIS
EXPERIMENT OF 6/23/71, T=127 DEG K, RHO=1.116 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
6.1923	2.8947E 03	2.8961E 03	
6.2645	2.8550E 03	2.8563E 03	
6.3365	2.8163E 03	2.8176E 03	
6.4085	2.7787E 03	2.7799E 03	
6.4804	2.7420E 03	2.7432E 03	
6.5521	2.7063E 03	2.7074E 03	
6.6237	2.6715E 03	2.6725E 03	
6.6951	2.6376E 03	2.6386E 03	
6.7665	2.6045E 03	2.6055E 03	
6.8377	2.5722E 03	2.5732E 03	
6.9088	2.5407E 03	2.5416E 03	
6.9797	2.5100E 03	2.5108E 03	
7.0506	2.4800E 03	2.4808E 03	
7.1212	2.4506E 03	2.4514E 03	
7.1918	2.4219E 03	2.4226E 03	
7.2622	2.3938E 03	2.3945E 03	
7.3325	2.3662E 03	2.3669E 03	
7.4026	2.3392E 03	2.3399E 03	
7.4726	2.3127E 03	2.3134E 03	
7.5424	2.2868E 03	2.2874E 03	
7.6122	2.2612E 03	2.2618E 03	
7.6817	2.2361E 03	2.2367E 03	
7.7511	2.2113E 03	2.2119E 03	
7.8204	2.1870E 03	2.1875E 03	
7.8895	2.1629E 03	2.1634E 03	
7.9585	2.1392E 03	2.1397E 03	
8.0273	2.1157E 03	2.1162E 03	
8.0960	2.0925E 03	2.0929E 03	
8.1645	2.0694E 03	2.0699E 03	
8.2328	2.0466E 03	2.0471E 03	
8.3010	2.0239E 03	2.0244E 03	
8.3691	2.0014E 03	2.0018E 03	
8.4370	1.9790E 03	1.9794E 03	
8.5047	1.9566E 03	1.9570E 03	
8.5722	1.9343E 03	1.9347E 03	
8.6396	1.9120E 03	1.9124E 03	
8.7069	1.8897E 03	1.8901E 03	
8.7739	1.8674E 03	1.8678E 03	
8.8408	1.8451E 03	1.8454E 03	

TABLE 9. (cont.)

Numerical Experiment: Subsidiary Peak

DATA ANALYSIS
EXPERIMENT OF 6/23/71, T=127 DEG K, RHO=1.116 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
0.3	-1.1430	-12.4571	
0.4	-0.7725	-11.7406	
0.5	-0.3830	-10.9363	
0.6	-0.0207	-10.1093	
0.7	0.2748	-9.3178	
0.8	0.4766	-8.6069	
0.9	0.5729	-8.0035	
1.0	0.5687	-7.5150	
1.1	0.4828	-7.1308	
1.2	0.3442	-6.8265	
1.3	0.1865	-6.5701	
1.4	0.0415	-6.3283	
1.5	-0.0659	-6.0733	
1.6	-0.1214	-5.7871	
1.7	-0.1232	-5.4640	
1.8	-0.0810	-5.1105	
1.9	-0.0133	-4.7430	
2.0	0.0572	-4.3828	
2.1	0.1085	-4.0517	
2.2	0.1242	-3.7666	
2.3	0.0971	-3.5353	
2.4	0.0310	-3.3550	
2.5	-0.0598	-3.2117	
2.6	-0.1526	-3.0826	
2.7	-0.2204	-2.9404	
2.8	-0.2370	-2.7577	
2.9	-0.1811	-2.5125	
3.0	-0.0411	-2.1920	
3.1	0.1829	-1.7958	302.41
3.2	0.4784	-1.3360	169.30
3.3	0.8221	-0.8362	89.11
3.4	1.1829	-0.3280	31.08
3.5	1.5267	0.1533	-13.44
3.6	1.8207	0.5739	-48.08
3.7	2.0383	0.9060	-74.66
3.8	2.1623	1.1317	-94.11
3.9	2.1872	1.2452	-106.98
4.0	2.1188	1.2526	-113.59
4.1	1.9732	1.1706	-114.24
4.2	1.7737	1.0237	-109.32
4.3	1.5471	0.8402	-99.48
4.4	1.3198	0.6482	-85.79

TABLE 9. (cont.)

Numerical Experiment: Subsidiary Peak

DATA ANALYSIS
EXPERIMENT OF 6/23/71, T=127 DEG K, RHO=1.116 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
4.5	1.1147	0.4716	-69.87
4.6	0.9480	0.3283	-53.98
4.7	0.8284	0.2276	-40.79
4.8	0.7570	0.1711	-32.54
4.9	0.7280	0.1534	-30.05
5.0	0.7312	0.1642	-32.30
5.1	0.7541	0.1908	-37.04
5.2	0.7844	0.2207	-41.97
5.3	0.8120	0.2438	-45.34
5.4	0.8303	0.2534	-46.23
5.5	0.8368	0.2470	-44.42
5.6	0.8327	0.2261	-40.23
5.7	0.8220	0.1950	-34.38
5.8	0.8104	0.1595	-27.83
5.9	0.8035	0.1256	-21.59
6.0	0.8060	0.0982	-16.50
6.1	0.8209	0.0803	-13.07
6.2	0.8484	0.0724	-11.32
6.3	0.8868	0.0731	-10.92
6.4	0.9327	0.0793	-11.28
6.5	0.9815	0.0872	-11.81
6.6	1.0286	0.0931	-12.05
6.7	1.0700	0.0942	-11.71
6.8	1.1028	0.0890	-10.69
6.9	1.1255	0.0776	-9.07
7.0	1.1382	0.0612	-7.02
7.1	1.1418	0.0424	-4.80
7.2	1.1384	0.0237	-2.67
7.3	1.1300	0.0078	-0.88
7.4	1.1185	-0.0035	0.40
7.5	1.1056	-0.0093	1.06
7.6	1.0923	-0.0096	1.12
7.7	1.0788	-0.0056	0.66
7.8	1.0653	0.0010	-0.12
7.9	1.0514	0.0083	-1.01
8.0	1.0369	0.0144	-1.77
8.1	1.0217	0.0178	-2.23
8.2	1.0058	0.0176	-2.25
8.3	0.9897	0.0139	-1.79
8.4	0.9741	0.0069	-0.91
8.5	0.9598	-0.0022	0.29
8.6	0.9475	-0.0124	1.65

TABLE 9. (cont.)

Numerical Experiment: Subsidiary Peak

DATA ANALYSIS
EXPERIMENT OF 6/23/71, T=127 DEG K, RHO=1.116 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
8.7	0.9379	-0.0224	3.00
8.8	0.9314	-0.0312	4.19
8.9	0.9280	-0.0381	5.11
9.0	0.9278	-0.0427	5.71
9.1	0.9305	-0.0448	5.97
9.2	0.9357	-0.0448	5.94
9.3	0.9429	-0.0429	5.65
9.4	0.9517	-0.0396	5.18
9.5	0.9617	-0.0353	4.57
9.6	0.9725	-0.0303	3.90
9.7	0.9837	-0.0250	3.19
9.8	0.9949	-0.0196	2.48
9.9	1.0056	-0.0144	1.80
10.0	1.0155	-0.0095	1.19

TABLE 10.A

Numerical Experiment: Low Angle Smoothing

DATA ANALYSIS
EXPERIMENT OF 7/28/71, T=133 DEG K, RHO=1.054 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
0.0			-6.0000E-01
0.0772			-6.1750E-01
0.1543			-6.6005E-01
0.2315			-7.0880E-01
0.3086			-7.5077E-01
0.3857			-7.8096E-01
0.4629	2.4232E 03	2.4916E 03	-7.9800E-01
0.5400	2.3057E 03	2.3556E 03	-8.0802E-01
0.6171	2.2116E 03	2.2431E 03	-8.1608E-01
0.6942	2.1520E 03	2.1650E 03	-8.2113E-01
0.7713	2.1381E 03	2.1326E 03	-8.2221E-01
0.8483	2.1808E 03	2.1568E 03	-8.1826E-01
0.9254	2.2913E 03	2.2487E 03	-8.0816E-01
1.0024	2.4804E 03	2.4194E 03	-7.9055E-01
1.0794	2.7593E 03	2.6798E 03	-7.6413E-01
1.1564	3.1388E 03	3.0410E 03	-7.2726E-01
1.2334	3.6300E 03	3.5138E 03	-6.7831E-01
1.3104	4.2296E 03	4.1003E 03	-6.1625E-01
1.3873	4.9670E 03	4.8095E 03	-5.3933E-01
1.4642	5.9437E 03	5.7429E 03	-4.3645E-01
1.5411	7.2626E 03	7.0059E 03	-2.9466E-01
1.6179	9.0265E 03	8.7031E 03	-1.0038E-01
1.6947	1.1271E 04	1.0941E 04	1.6233E-01
1.7715	1.3107E 04	1.2899E 04	4.0781E-01
1.8482	1.4153E 04	1.4071E 04	5.7791E-01
1.9249	1.4311E 04	1.4357E 04	6.5343E-01
2.0016	1.3484E 04	1.3660E 04	6.1578E-01
2.0783	1.1682E 04	1.1913E 04	4.4671E-01
2.1549	9.9835E 03	1.0161E 04	2.6602E-01
2.2314	8.6407E 03	8.7748E 03	1.2206E-01
2.3079	7.5921E 03	7.6928E 03	9.2859E-03
2.3844	6.7761E 03	6.8522E 03	-7.7602E-02
2.4608	6.1316E 03	6.1908E 03	-1.4475E-01
2.5372	5.6071E 03	5.6523E 03	-1.9875E-01
2.6135	5.2190E 03	5.2496E 03	-2.3632E-01
2.6898	4.9615E 03	4.9797E 03	-2.5643E-01
2.7660	4.8202E 03	4.8280E 03	-2.5949E-01
2.8422	4.7808E 03	4.7801E 03	-2.4616E-01
2.9183	4.8289E 03	4.8213E 03	-2.1778E-01
2.9944	4.9502E 03	4.9374E 03	-1.7517E-01
3.0704	5.1307E 03	5.1141E 03	-1.2018E-01

TABLE 10.A (cont.)

Numerical Experiment: Low Angle Smoothing

DATA ANALYSIS
EXPERIMENT OF 7/28/71, T=133 DEG K, RHO=1.054 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
3.1463	5.3562E 03	5.3370E 03	-5.4389E-02
3.2222	5.6072E 03	5.5896E 03	2.0219E-02
3.2981	5.7888E 03	5.7789E 03	8.5318E-02
3.3738	5.8790E 03	5.8756E 03	1.3422E-01
3.4495	5.8888E 03	5.8908E 03	1.6798E-01
3.5252	5.8292E 03	5.8355E 03	1.8704E-01
3.6007	5.7111E 03	5.7209E 03	1.9312E-01
3.6762	5.5454E 03	5.5577E 03	1.8707E-01
3.7517	5.3430E 03	5.3571E 03	1.7077E-01
3.8270	5.1146E 03	5.1296E 03	1.4616E-01
3.9023	4.8709E 03	4.8862E 03	1.1539E-01
3.9775	4.6227E 03	4.6376E 03	8.0339E-02
4.0526	4.3804E 03	4.3943E 03	4.4049E-02
4.1277	4.1547E 03	4.1670E 03	9.0828E-03
4.2027	3.9559E 03	3.9662E 03	-2.1756E-02
4.2776	3.7896E 03	3.7980E 03	-4.5880E-02
4.3524	3.6526E 03	3.6592E 03	-6.3777E-02
4.4271	3.5419E 03	3.5471E 03	-7.5802E-02
4.5018	3.4547E 03	3.4587E 03	-8.2290E-02
4.5764	3.3881E 03	3.3910E 03	-8.3710E-02
4.6508	3.3392E 03	3.3413E 03	-8.0512E-02
4.7252	3.3052E 03	3.3065E 03	-7.3292E-02
4.7995	3.2831E 03	3.2839E 03	-6.2623E-02
4.8737	3.2703E 03	3.2707E 03	-4.9230E-02
4.9478	3.2638E 03	3.2640E 03	-3.3802E-02
5.0219	3.2609E 03	3.2610E 03	-1.6944E-02
5.0958	3.2589E 03	3.2591E 03	-2.2650E-06
5.1696	3.2551E 03	3.2553E 03	
5.2434	3.2466E 03	3.2471E 03	
5.3170	3.2309E 03	3.2317E 03	
5.3905	3.2052E 03	3.2065E 03	
5.4639	3.1669E 03	3.1687E 03	
5.5373	3.1158E 03	3.1179E 03	
5.6105	3.0641E 03	3.0661E 03	
5.6836	3.0140E 03	3.0159E 03	
5.7566	2.9654E 03	2.9672E 03	
5.8295	2.9183E 03	2.9200E 03	
5.9023	2.8725E 03	2.8742E 03	
5.9749	2.8282E 03	2.8297E 03	
6.0475	2.7851E 03	2.7866E 03	
6.1199	2.7434E 03	2.7448E 03	

TABLE 10.A (cont.)

Numerical Experiment: Low Angle Smoothing

DATA ANALYSIS
EXPERIMENT OF 7/28/71, T=133 DEG K, RHO=1.054 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
6.1923	2.7029E 03	2.7043E 03	
6.2645	2.6637E 03	2.6649E 03	
6.3365	2.6256E 03	2.6268E 03	
6.4085	2.5886E 03	2.5897E 03	
6.4804	2.5527E 03	2.5538E 03	
6.5521	2.5178E 03	2.5189E 03	
6.6237	2.4840E 03	2.4850E 03	
6.6951	2.4511E 03	2.4521E 03	
6.7665	2.4192E 03	2.4201E 03	
6.8377	2.3881E 03	2.3890E 03	
6.9088	2.3579E 03	2.3587E 03	
6.9797	2.3285E 03	2.3293E 03	
7.0506	2.2998E 03	2.3006E 03	
7.1212	2.2719E 03	2.2727E 03	
7.1918	2.2447E 03	2.2454E 03	
7.2622	2.2182E 03	2.2188E 03	
7.3325	2.1922E 03	2.1929E 03	
7.4026	2.1669E 03	2.1675E 03	
7.4726	2.1421E 03	2.1427E 03	
7.5424	2.1178E 03	2.1184E 03	
7.6122	2.0941E 03	2.0946E 03	
7.6817	2.0707E 03	2.0712E 03	
7.7511	2.0478E 03	2.0483E 03	
7.8204	2.0252E 03	2.0257E 03	
7.8895	2.0030E 03	2.0035E 03	
7.9585	1.9811E 03	1.9816E 03	
8.0273	1.9595E 03	1.9599E 03	
8.0960	1.9381E 03	1.9385E 03	
8.1645	1.9169E 03	1.9173E 03	
8.2328	1.8959E 03	1.8963E 03	
8.3010	1.8751E 03	1.8755E 03	
8.3691	1.8543E 03	1.8547E 03	
8.4370	1.8337E 03	1.8341E 03	
8.5047	1.8131E 03	1.8135E 03	
8.5722	1.7926E 03	1.7929E 03	
8.6396	1.7720E 03	1.7724E 03	
8.7069	1.7514E 03	1.7518E 03	
8.7739	1.7308E 03	1.7311E 03	
8.8408	1.7101E 03	1.7104E 03	

TABLE 10.A (cont.)

Numerical Experiment: Low Angle Smoothing

DATA ANALYSIS
EXPERIMENT OF 7/28/71, T=133 DEG K, RHO=1.054 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
0.3	-0.4718	-10.7403	
0.4	-0.2566	-10.1947	
0.5	-0.0547	-9.5990	
0.6	0.0982	-9.0077	
0.7	0.1763	-8.4659	
0.8	0.1686	-8.0021	
0.9	0.0808	-7.6255	
1.0	-0.0658	-7.3264	
1.1	-0.2388	-7.0792	
1.2	-0.4002	-6.8498	
1.3	-0.5145	-6.6025	
1.4	-0.5551	-6.3084	
1.5	-0.5093	-5.9505	
1.6	-0.3811	-5.5282	
1.7	-0.1902	-5.0565	
1.8	0.0317	-4.5634	
1.9	0.2467	-4.0841	
2.0	0.4178	-3.6540	
2.1	0.5158	-3.3019	
2.2	0.5252	-3.0439	
2.3	0.4468	-2.8800	
2.4	0.2978	-2.7939	
2.5	0.1094	-2.7557	
2.6	-0.0790	-2.7267	
2.7	-0.2263	-2.6663	
2.8	-0.2965	-2.5387	
2.9	-0.2650	-2.3195	
3.0	-0.1222	-1.9994	
3.1	0.1247	-1.5857	348.31
3.2	0.4533	-1.1012	163.91
3.3	0.8296	-0.5803	70.53
3.4	1.2135	-0.0634	6.78
3.5	1.5650	0.4088	-40.27
3.6	1.8495	0.8018	-75.59
3.7	2.0430	1.0916	-101.64
3.8	2.1341	1.2671	-119.80
3.9	2.1249	1.3310	-130.94
4.0	2.0290	1.2977	-135.71
4.1	1.8687	1.1901	-134.74
4.2	1.6704	1.0358	-128.72
4.3	1.4609	0.8619	-118.58
4.4	1.2632	0.6921	-105.58

TABLE 10.A (cont.)

Numerical Experiment: Low Angle Smoothing

DATA ANALYSIS
EXPERIMENT OF 7/28/71, T=133 DEG K, RHO=1.054 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
4.5	1.0942	0.5436	-91.33
4.6	0.9634	0.4259	-77.62
4.7	0.8728	0.3415	-66.02
4.8	0.8185	0.2868	-57.36
4.9	0.7928	0.2544	-51.46
5.0	0.7863	0.2356	-47.37
5.1	0.7898	0.2224	-43.98
5.2	0.7965	0.2089	-40.46
5.3	0.8021	0.1922	-36.43
5.4	0.8052	0.1719	-31.95
5.5	0.8069	0.1501	-27.38
5.6	0.8095	0.1297	-23.22
5.7	0.8155	0.1133	-19.90
5.8	0.8271	0.1029	-17.67
5.9	0.8450	0.0987	-16.52
6.0	0.8688	0.0994	-16.16
6.1	0.8968	0.1025	-16.15
6.2	0.9267	0.1052	-16.02
6.3	0.9561	0.1045	-15.39
6.4	0.9830	0.0986	-14.06
6.5	1.0062	0.0869	-12.02
6.6	1.0255	0.0702	-9.43
6.7	1.0412	0.0503	-6.59
6.8	1.0545	0.0298	-3.81
6.9	1.0661	0.0113	-1.42
7.0	1.0768	-0.0029	0.36
7.1	1.0869	-0.0116	1.41
7.2	1.0958	-0.0145	1.74
7.3	1.1027	-0.0123	1.48
7.4	1.1063	-0.0067	0.80
7.5	1.1056	0.0005	-0.06
7.6	1.1000	0.0075	-0.91
7.7	1.0893	0.0128	-1.57
7.8	1.0741	0.0155	-1.94
7.9	1.0557	0.0156	-1.98
8.0	1.0355	0.0133	-1.72
8.1	1.0153	0.0096	-1.27
8.2	0.9967	0.0053	-0.71
8.3	0.9807	0.0012	-0.16
8.4	0.9680	-0.0023	0.32
8.5	0.9587	-0.0051	0.71
8.6	0.9525	-0.0073	1.02

TABLE 10.A (cont.)

Numerical Experiment: Low Angle Smoothing

DATA ANALYSIS
EXPERIMENT OF 7/28/71, T=133 DEG K, RHO=1.054 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
8.7	0.9487	-0.0093	1.30
8.8	0.9468	-0.0114	1.59
8.9	0.9463	-0.0137	1.91
9.0	0.9469	-0.0163	2.26
9.1	0.9487	-0.0187	2.60
9.2	0.9517	-0.0206	2.85
9.3	0.9564	-0.0214	2.95
9.4	0.9627	-0.0207	2.83
9.5	0.9708	-0.0183	2.48
9.6	0.9802	-0.0142	1.91
9.7	0.9904	-0.0089	1.19
9.8	1.0006	-0.0030	0.39
9.9	1.0100	0.0028	-0.37
10.0	1.0177	0.0077	-1.00

TABLE 10.B

Numerical Experiment: Low Angle Smoothing

DATA ANALYSIS
EXPERIMENT OF 8/4/71, T=127 DEG K, RHO=1.116 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
0.0			-7.0000E-01
0.0772			-7.1245E-01
0.1543			-7.4290E-01
0.2315			-7.7807E-01
0.3086			-8.0852E-01
0.3857			-8.3027E-01
0.4629	2.2310E 03	2.2794E 03	-8.4192E-01
0.5400	2.1518E 03	2.1819E 03	-8.4799E-01
0.6171	2.1018E 03	2.1135E 03	-8.5191E-01
0.6942	2.0919E 03	2.0853E 03	-8.5286E-01
0.7713	2.1332E 03	2.1082E 03	-8.4995E-01
0.8483	2.2367E 03	2.1932E 03	-8.4224E-01
0.9254	2.4132E 03	2.3514E 03	-8.2871E-01
1.0024	2.6738E 03	2.5937E 03	-8.0823E-01
1.0794	3.0294E 03	2.9310E 03	-7.7963E-01
1.1564	3.4909E 03	3.3742E 03	-7.4145E-01
1.2334	4.0692E 03	3.9343E 03	-6.9226E-01
1.3104	4.7582E 03	4.6102E 03	-6.3128E-01
1.3873	5.6143E 03	5.4276E 03	-5.5591E-01
1.4642	6.8012E 03	6.5508E 03	-4.5071E-01
1.5411	8.4845E 03	8.1495E 03	-2.9880E-01
1.6179	1.0830E 04	1.0392E 04	-8.1589E-02
1.6947	1.3915E 04	1.3450E 04	2.2173E-01
1.7715	1.6581E 04	1.6268E 04	5.1802E-01
1.8482	1.8225E 04	1.8084E 04	7.3387E-01
1.9249	1.8594E 04	1.8646E 04	8.3628E-01
2.0016	1.7441E 04	1.7701E 04	7.9068E-01
2.0783	1.4708E 04	1.5054E 04	5.6301E-01
2.1549	1.2250E 04	1.2496E 04	3.3057E-01
2.2314	1.0457E 04	1.0628E 04	1.6112E-01
2.3079	9.1603E 03	9.2809E 03	4.0369E-02
2.3844	8.1906E 03	8.2817E 03	-4.7266E-02
2.4608	7.3797E 03	7.4605E 03	-1.1935E-01
2.5372	6.6071E 03	6.6743E 03	-1.9226E-01
2.6135	6.0489E 03	6.0910E 03	-2.4419E-01
2.6898	5.7101E 03	5.7325E 03	-2.7012E-01
2.7660	5.5491E 03	5.5566E 03	-2.7331E-01
2.8422	5.5243E 03	5.5216E 03	-2.5755E-01
2.9183	5.5946E 03	5.5856E 03	-2.2738E-01
2.9944	5.7187E 03	5.7073E 03	-1.8739E-01
3.0704	5.8525E 03	5.8422E 03	-1.4383E-01

TABLE 10.B (cont.)

Numerical Experiment: Low Angle Smoothing

DATA ANALYSIS
EXPERIMENT OF 8/4/71, T=127 DEG K, RHO=1.116 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
3.1463	5.9739E 03	5.9650E 03	-1.0066E-01
3.2222	6.0790E 03	6.0717E 03	-5.8457E-02
3.2981	6.1641E 03	6.1586E 03	-1.8191E-02
3.3738	6.2255E 03	6.2220E 03	1.8954E-02
3.4495	6.2593E 03	6.2580E 03	5.2541E-02
3.5252	6.2619E 03	6.2629E 03	8.1195E-02
3.6007	6.2297E 03	6.2332E 03	1.0379E-01
3.6762	6.1589E 03	6.1650E 03	1.1905E-01
3.7517	6.0459E 03	6.0547E 03	1.2569E-01
3.8270	5.8872E 03	5.8988E 03	1.2212E-01
3.9023	5.6791E 03	5.6936E 03	1.0720E-01
3.9775	5.4181E 03	5.4356E 03	7.9148E-02
4.0526	5.1256E 03	5.1419E 03	4.0846E-02
4.1277	4.8703E 03	4.8838E 03	7.5407E-03
4.2027	4.6532E 03	4.6644E 03	-1.9295E-02
4.2776	4.4711E 03	4.4803E 03	-4.0431E-02
4.3524	4.3205E 03	4.3279E 03	-5.5910E-02
4.4271	4.1982E 03	4.2040E 03	-6.6027E-02
4.5018	4.1008E 03	4.1053E 03	-7.0961E-02
4.5764	4.0250E 03	4.0284E 03	-7.1646E-02
4.6508	3.9675E 03	3.9700E 03	-6.8347E-02
4.7252	3.9251E 03	3.9269E 03	-6.1393E-02
4.7995	3.8945E 03	3.8958E 03	-5.1897E-02
4.8737	3.8726E 03	3.8735E 03	-4.0061E-02
4.9478	3.8561E 03	3.8567E 03	-2.7123E-02
5.0219	3.8418E 03	3.8424E 03	-1.3362E-02
5.0958	3.8266E 03	3.8274E 03	-1.6689E-06
5.1696	3.8075E 03	3.8085E 03	
5.2434	3.7812E 03	3.7826E 03	
5.3170	3.7448E 03	3.7466E 03	
5.3905	3.6952E 03	3.6975E 03	
5.4639	3.6365E 03	3.6388E 03	
5.5373	3.5791E 03	3.5814E 03	
5.6105	3.5232E 03	3.5253E 03	
5.6836	3.4686E 03	3.4707E 03	
5.7566	3.4154E 03	3.4174E 03	
5.8295	3.3636E 03	3.3655E 03	
5.9023	3.3130E 03	3.3149E 03	
5.9749	3.2637E 03	3.2655E 03	
6.0475	3.2157E 03	3.2173E 03	
6.1199	3.1688E 03	3.1704E 03	

TABLE 10.B (cont.)

Numerical Experiment: Low Angle Smoothing

DATA ANALYSIS
EXPERIMENT OF 8/4/71, T=127 DEG K, RHO=1.116 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
6.1923	3.1231E 03	3.1246E 03	
6.2645	3.0785E 03	3.0800E 03	
6.3365	3.0351E 03	3.0365E 03	
6.4085	2.9927E 03	2.9940E 03	
6.4804	2.9513E 03	2.9526E 03	
6.5521	2.9109E 03	2.9122E 03	
6.6237	2.8715E 03	2.8727E 03	
6.6951	2.8331E 03	2.8342E 03	
6.7665	2.7955E 03	2.7966E 03	
6.8377	2.7589E 03	2.7599E 03	
6.9088	2.7231E 03	2.7241E 03	
6.9797	2.6881E 03	2.6890E 03	
7.0506	2.6539E 03	2.6548E 03	
7.1212	2.6204E 03	2.6213E 03	
7.1918	2.5877E 03	2.5886E 03	
7.2622	2.5557E 03	2.5565E 03	
7.3325	2.5244E 03	2.5252E 03	
7.4026	2.4937E 03	2.4945E 03	
7.4726	2.4636E 03	2.4643E 03	
7.5424	2.4341E 03	2.4348E 03	
7.6122	2.4052E 03	2.4059E 03	
7.6817	2.3768E 03	2.3774E 03	
7.7511	2.3489E 03	2.3495E 03	
7.8204	2.3215E 03	2.3221E 03	
7.8895	2.2945E 03	2.2951E 03	
7.9585	2.2680E 03	2.2685E 03	
8.0273	2.2418E 03	2.2424E 03	
8.0960	2.2160E 03	2.2166E 03	
8.1645	2.1906E 03	2.1911E 03	
8.2328	2.1655E 03	2.1660E 03	
8.3010	2.1407E 03	2.1412E 03	
8.3691	2.1162E 03	2.1167E 03	
8.4370	2.0919E 03	2.0924E 03	
8.5047	2.0678E 03	2.0683E 03	
8.5722	2.0440E 03	2.0444E 03	
8.6396	2.0203E 03	2.0207E 03	
8.7069	1.9967E 03	1.9972E 03	
8.7739	1.9733E 03	1.9738E 03	
8.8408	1.9501E 03	1.9504E 03	

TABLE 10.B (cont.)

Numerical Experiment: Low Angle Smoothing

DATA ANALYSIS
EXPERIMENT OF 8/4/71, T=127 DEG K, RHO=1.116 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
0.3	-1.2167	-12.3812	
0.4	-0.8660	-11.7356	
0.5	-0.4978	-11.0106	
0.6	-0.1555	-10.2635	
0.7	0.1251	-9.5445	
0.8	0.3202	-8.8911	
0.9	0.4212	-8.3241	
1.0	0.4344	-7.8473	
1.1	0.3789	-7.4491	
1.2	0.2817	-7.1077	
1.3	0.1722	-6.7965	
1.4	0.0765	-6.4907	
1.5	0.0129	-6.1718	
1.6	-0.0112	-5.8315	
1.7	0.0008	-5.4720	
1.8	0.0360	-5.1052	
1.9	0.0760	-4.7486	
2.0	0.1016	-4.4207	
2.1	0.0974	-4.1367	
2.2	0.0559	-3.9037	
2.3	-0.0206	-3.7190	
2.4	-0.1193	-3.5694	
2.5	-0.2195	-3.4334	
2.6	-0.2955	-3.2845	
2.7	-0.3220	-3.0962	
2.8	-0.2780	-2.8468	
2.9	-0.1517	-2.5237	
3.0	0.0574	-2.1259	
3.1	0.3382	-1.6647	225.89
3.2	0.6687	-1.1622	127.92
3.3	1.0196	-0.6487	62.53
3.4	1.3585	-0.1574	13.92
3.5	1.6544	0.2797	-23.52
3.6	1.8823	0.6366	-52.42
3.7	2.0259	0.8965	-74.21
3.8	2.0799	1.0536	-89.71
3.9	2.0493	1.1133	-99.52
4.0	1.9484	1.0901	-104.11
4.1	1.7973	1.0050	-104.03
4.2	1.6189	0.8821	-99.97
4.3	1.4354	0.7445	-92.87
4.4	1.2653	0.6119	-83.94

TABLE 10.B (cont.)

Numerical Experiment: Low Angle Smoothing

DATA ANALYSIS
EXPERIMENT OF 8/4/71, T=127 DEG K, RHO=1.116 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
4.5	1.1212	0.4981	-74.59
4.6	1.0096	0.4102	-66.21
4.7	0.9307	0.3493	-59.75
4.8	0.8799	0.3115	-55.49
4.9	0.8500	0.2899	-52.98
5.0	0.8325	0.2767	-51.31
5.1	0.8201	0.2648	-49.52
5.2	0.8079	0.2495	-46.91
5.3	0.7933	0.2287	-43.18
5.4	0.7770	0.2029	-38.44
5.5	0.7613	0.1748	-33.13
5.6	0.7499	0.1479	-27.91
5.7	0.7465	0.1258	-23.43
5.8	0.7537	0.1108	-20.20
5.9	0.7728	0.1041	-18.37
6.0	0.8033	0.1048	-17.76
6.1	0.8429	0.1110	-17.93
6.2	0.8884	0.1195	-18.35
6.3	0.9360	0.1273	-18.56
6.4	0.9821	0.1314	-18.25
6.5	1.0236	0.1303	-17.29
6.6	1.0585	0.1232	-15.71
6.7	1.0859	0.1107	-13.66
6.8	1.1057	0.0945	-11.34
6.9	1.1186	0.0764	-8.98
7.0	1.1255	0.0586	-6.79
7.1	1.1275	0.0429	-4.93
7.2	1.1256	0.0304	-3.48
7.3	1.1204	0.0217	-2.48
7.4	1.1123	0.0165	-1.90
7.5	1.1017	0.0142	-1.65
7.6	1.0889	0.0140	-1.64
7.7	1.0744	0.0150	-1.78
7.8	1.0586	0.0164	-1.99
7.9	1.0423	0.0179	-2.20
8.0	1.0262	0.0191	-2.39
8.1	1.0111	0.0200	-2.53
8.2	0.9974	0.0204	-2.63
8.3	0.9854	0.0204	-2.66
8.4	0.9752	0.0198	-2.61
8.5	0.9666	0.0183	-2.43
8.6	0.9592	0.0157	-2.09

TABLE 10.B (cont.)

Numerical Experiment: Low Angle Smoothing

DATA ANALYSIS
EXPERIMENT OF 8/4/71, T=127 DEG K, RHO=1.116 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
8.7	0.9528	0.0116	-1.56
8.8	0.9472	0.0062	-0.83
8.9	0.9424	-0.0005	0.06
9.0	0.9388	-0.0078	1.05
9.1	0.9369	-0.0152	2.04
9.2	0.9371	-0.0218	2.92
9.3	0.9399	-0.0268	3.57
9.4	0.9457	-0.0297	3.92
9.5	0.9544	-0.0300	3.93
9.6	0.9655	-0.0279	3.61
9.7	0.9783	-0.0236	3.02
9.8	0.9919	-0.0178	2.26
9.9	1.0051	-0.0113	1.42
10.0	1.0169	-0.0049	0.62

TABLE 11.A

Numerical Experiment: Truncation

DATA ANALYSIS
EXPERIMENT OF 12/15/71, T=127 DEG K, RHO=1.135 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
0.0			-7.8000E-01
0.0772			-7.8258E-01
0.1543			-7.8971E-01
0.2315			-7.9988E-01
0.3086			-8.1118E-01
0.3857			-8.2187E-01
0.4629	2.0546E 03	2.1040E 03	-8.3051E-01
0.5400	1.9716E 03	2.0052E 03	-8.3772E-01
0.6171	1.9115E 03	1.9292E 03	-8.4297E-01
0.6942	1.8838E 03	1.8856E 03	-8.4543E-01
0.7713	1.8980E 03	1.8840E 03	-8.4429E-01
0.8483	1.9636E 03	1.9337E 03	-8.3858E-01
0.9254	2.0900E 03	2.0442E 03	-8.2722E-01
1.0024	2.2867E 03	2.2251E 03	-8.0918E-01
1.0794	2.5632E 03	2.4858E 03	-7.8317E-01
1.1564	2.9288E 03	2.8356E 03	-7.4799E-01
1.2334	3.3929E 03	3.2840E 03	-7.0211E-01
1.3104	3.9636E 03	3.8367E 03	-6.4418E-01
1.3873	4.7126E 03	4.5468E 03	-5.6855E-01
1.4642	5.7716E 03	5.5478E 03	-4.6056E-01
1.5411	7.2731E 03	6.9753E 03	-3.0392E-01
1.6179	9.3491E 03	8.9636E 03	-8.1171E-02
1.6947	1.2058E 04	1.1650E 04	2.2705E-01
1.7715	1.4406E 04	1.4129E 04	5.2917E-01
1.8482	1.5879E 04	1.5750E 04	7.5144E-01
1.9249	1.6261E 04	1.6297E 04	8.6147E-01
2.0016	1.5339E 04	1.5554E 04	8.2499E-01
2.0783	1.3050E 04	1.3348E 04	6.0717E-01
2.1549	1.0849E 04	1.1079E 04	3.6853E-01
2.2314	9.1137E 03	9.2857E 03	1.7617E-01
2.3079	7.7901E 03	7.9139E 03	2.8015E-02
2.3844	6.8249E 03	6.9095E 03	-7.9548E-02
2.4608	6.1647E 03	6.2180E 03	-1.5047E-01
2.5372	5.7434E 03	5.7782E 03	-1.8943E-01
2.6135	5.4410E 03	5.4654E 03	-2.1299E-01
2.6898	5.2301E 03	5.2457E 03	-2.2416E-01
2.7660	5.0997E 03	5.1081E 03	-2.2375E-01
2.8422	5.0390E 03	5.0415E 03	-2.1247E-01
2.9183	5.0370E 03	5.0349E 03	-1.9144E-01
2.9944	5.0831E 03	5.0775E 03	-1.6126E-01
3.0704	5.1663E 03	5.1583E 03	-1.2334E-01

TABLE 11.A (cont.)

Numerical Experiment: Truncation

DATA ANALYSIS
EXPERIMENT OF 12/15/71, T=127 DEG K, RHO=1.135 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
3.1463	5.2759E 03	5.2665E 03	-7.9205E-02
3.2222	5.3991E 03	5.3903E 03	-3.0452E-02
3.2981	5.4919E 03	5.4867E 03	1.4722E-02
3.3738	5.5421E 03	5.5400E 03	5.2476E-02
3.4495	5.5511E 03	5.5520E 03	8.3008E-02
3.5252	5.5205E 03	5.5240E 03	1.0567E-01
3.6007	5.4519E 03	5.4578E 03	1.2011E-01
3.6762	5.3467E 03	5.3548E 03	1.2596E-01
3.7517	5.2064E 03	5.2166E 03	1.2294E-01
3.8270	5.0327E 03	5.0447E 03	1.1053E-01
3.9023	4.8270E 03	4.8407E 03	8.8806E-02
3.9775	4.5908E 03	4.6059E 03	5.7358E-02
4.0526	4.3419E 03	4.3556E 03	1.9300E-02
4.1277	4.1265E 03	4.1379E 03	-1.3200E-02
4.2027	3.9448E 03	3.9542E 03	-3.9295E-02
4.2776	3.7938E 03	3.8014E 03	-5.9241E-02
4.3524	3.6706E 03	3.6765E 03	-7.3282E-02
4.4271	3.5721E 03	3.5767E 03	-8.1544E-02
4.5018	3.4954E 03	3.4989E 03	-8.4944E-02
4.5764	3.4378E 03	3.4403E 03	-8.3644E-02
4.6508	3.3962E 03	3.3979E 03	-7.8189E-02
4.7252	3.3679E 03	3.3690E 03	-6.9159E-02
4.7995	3.3499E 03	3.3506E 03	-5.6980E-02
4.8737	3.3395E 03	3.3399E 03	-4.2787E-02
4.9478	3.3338E 03	3.3340E 03	-2.7125E-02
5.0219	3.3301E 03	3.3303E 03	-1.0557E-02
5.0958	3.3256E 03	3.3259E 03	5.4741E-03
5.1696	3.3176E 03	3.3180E 03	2.0671E-02
5.2434	3.3032E 03	3.3040E 03	3.3365E-02
5.3170	3.2799E 03	3.2812E 03	4.3029E-02
5.3905	3.2450E 03	3.2467E 03	4.8256E-02
5.4639	3.1958E 03	3.1981E 03	4.7609E-02
5.5373	3.1324E 03	3.1350E 03	4.1158E-02
5.6105	3.0689E 03	3.0714E 03	3.3826E-02
5.6836	3.0078E 03	3.0101E 03	2.6609E-02
5.7566	2.9490E 03	2.9512E 03	1.9599E-02
5.8295	2.8924E 03	2.8944E 03	1.2778E-02
5.9023	2.8379E 03	2.8398E 03	6.3810E-03
5.9749	2.7855E 03	2.7873E 03	-2.2054E-06
6.0475	2.7350E 03	2.7368E 03	
6.1199	2.6866E 03	2.6882E 03	

TABLE 11.A (cont.)

Numerical Experiment: Truncation

DATA ANALYSIS
EXPERIMENT OF 12/15/71, T=127 DEG K, RHO=1.135 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
6.1923	2.6399E 03	2.6415E 03	
6.2645	2.5951E 03	2.5966E 03	
6.3365	2.5521E 03	2.5534E 03	
6.4085	2.5107E 03	2.5120E 03	
6.4804	2.4709E 03	2.4721E 03	
6.5521	2.4326E 03	2.4338E 03	
6.6237	2.3959E 03	2.3970E 03	
6.6951	2.3605E 03	2.3616E 03	
6.7665	2.3265E 03	2.3275E 03	
6.8377	2.2938E 03	2.2948E 03	
6.9088	2.2624E 03	2.2633E 03	
6.9797	2.2321E 03	2.2329E 03	
7.0506	2.2029E 03	2.2037E 03	
7.1212	2.1748E 03	2.1755E 03	
7.1918	2.1476E 03	2.1483E 03	
7.2622	2.1214E 03	2.1221E 03	
7.3325	2.0961E 03	2.0967E 03	
7.4026	2.0716E 03	2.0722E 03	
7.4726	2.0478E 03	2.0484E 03	
7.5424	2.0248E 03	2.0253E 03	
7.6122	2.0024E 03	2.0029E 03	
7.6817	1.9806E 03	1.9811E 03	
7.7511	1.9593E 03	1.9598E 03	
7.8204	1.9385E 03	1.9390E 03	
7.8895	1.9182E 03	1.9186E 03	
7.9585	1.8982E 03	1.8986E 03	
8.0273	1.8785E 03	1.8789E 03	
8.0960	1.8591E 03	1.8595E 03	
8.1645	1.8400E 03	1.8404E 03	
8.2328	1.8210E 03	1.8214E 03	
8.3010	1.8022E 03	1.8025E 03	
8.3691	1.7834E 03	1.7837E 03	
8.4370	1.7646E 03	1.7650E 03	
8.5047	1.7458E 03	1.7462E 03	
8.5722	1.7270E 03	1.7273E 03	
8.6396	1.7080E 03	1.7084E 03	
8.7069	1.6889E 03	1.6893E 03	
8.7739	1.6696E 03	1.6699E 03	
8.8408	1.6500E 03	1.6504E 03	

TABLE 11.A (cont.)

Numerical Experiment: Truncation

DATA ANALYSIS
EXPERIMENT OF 12/15/71, T=127 DEG K, RHO=1.135 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
0.3	0.3936	-10.5214	
0.4	0.2644	-10.3484	
0.5	0.1652	-10.0876	
0.6	0.1191	-9.7320	
0.7	0.1341	-9.2895	
0.8	0.2009	-8.7832	
0.9	0.2953	-8.2481	
1.0	0.3852	-7.7237	
1.1	0.4390	-7.2459	
1.2	0.4346	-6.8385	
1.3	0.3650	-6.5084	
1.4	0.2408	-6.2443	
1.5	0.0870	-6.0203	
1.6	-0.0637	-5.8031	
1.7	-0.1796	-5.5615	
1.8	-0.2380	-5.2739	
1.9	-0.2320	-4.9347	
2.0	-0.1712	-4.5553	
2.1	-0.0794	-4.1607	
2.2	0.0126	-3.7824	
2.3	0.0757	-3.4499	
2.4	0.0910	-3.1815	
2.5	0.0554	-2.9793	
2.6	-0.0161	-2.8273	
2.7	-0.0939	-2.6947	
2.8	-0.1407	-2.5429	
2.9	-0.1203	-2.3351	
3.0	-0.0070	-2.0450	
3.1	0.2079	-1.6636	279.08
3.2	0.5127	-1.2026	153.37
3.3	0.8776	-0.6918	73.82
3.4	1.2599	-0.1739	16.42
3.5	1.6129	0.3041	-26.54
3.6	1.8947	0.7004	-58.61
3.7	2.0759	0.9854	-81.76
3.8	2.1444	1.1472	-97.24
3.9	2.1061	1.1918	-105.98
4.0	1.9820	1.1405	-108.80
4.1	1.8028	1.0243	-106.65
4.2	1.6016	0.8770	-100.72
4.3	1.4078	0.7285	-92.54
4.4	1.2421	0.6002	-83.84

TABLE 11.A (cont.)

Numerical Experiment: Truncation

DATA ANALYSIS
EXPERIMENT OF 12/15/71, T=127 DEG K, RHO=1.135 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
4.5	1.1146	0.5031	-76.24
4.6	1.0251	0.4375	-70.68
4.7	0.9660	0.3966	-67.11
4.8	0.9261	0.3692	-64.59
4.9	0.8942	0.3445	-61.80
5.0	0.8625	0.3148	-57.67
5.1	0.8275	0.2766	-51.67
5.2	0.7904	0.2312	-43.95
5.3	0.7557	0.1833	-35.27
5.4	0.7288	0.1385	-26.77
5.5	0.7142	0.1020	-19.57
5.6	0.7144	0.0767	-14.43
5.7	0.7289	0.0629	-11.46
5.8	0.7548	0.0583	-10.20
5.9	0.7882	0.0593	-9.93
6.0	0.8247	0.0619	-9.92
6.1	0.8611	0.0633	-9.70
6.2	0.8960	0.0618	-9.08
6.3	0.9290	0.0576	-8.13
6.4	0.9612	0.0519	-7.04
6.5	0.9938	0.0463	-6.06
6.6	1.0272	0.0424	-5.35
6.7	1.0609	0.0406	-4.96
6.8	1.0934	0.0407	-4.82
6.9	1.1219	0.0414	-4.78
7.0	1.1439	0.0412	-4.66
7.1	1.1571	0.0387	-4.32
7.2	1.1604	0.0334	-3.71
7.3	1.1542	0.0253	-2.81
7.4	1.1398	0.0155	-1.74
7.5	1.1198	0.0055	-0.62
7.6	1.0970	-0.0032	0.37
7.7	1.0739	-0.0093	1.10
7.8	1.0524	-0.0125	1.50
7.9	1.0332	-0.0129	1.58
8.0	1.0166	-0.0115	1.43
8.1	1.0021	-0.0094	1.18
8.2	0.9888	-0.0078	0.99
8.3	0.9762	-0.0075	0.98
8.4	0.9640	-0.0090	1.18
8.5	0.9525	-0.0120	1.58
8.6	0.9424	-0.0158	2.12

TABLE 11.A (cont.)

Numerical Experiment: Truncation

DATA ANALYSIS
EXPERIMENT OF 12/15/71, T=127 DEG K, RHO=1.135 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
8.7	0.9343	-0.0198	2.67
8.8	0.9290	-0.0232	3.13
8.9	0.9270	-0.0253	3.42
9.0	0.9286	-0.0260	3.51
9.1	0.9334	-0.0252	3.38
9.2	0.9410	-0.0233	3.10
9.3	0.9506	-0.0205	2.72
9.4	0.9616	-0.0175	2.28
9.5	0.9731	-0.0143	1.85
9.6	0.9847	-0.0113	1.45
9.7	0.9957	-0.0087	1.11
9.8	1.0058	-0.0065	0.82
9.9	1.0147	-0.0047	0.59
10.0	1.0221	-0.0035	0.43

TABLE 11.B

Numerical Experiment: Truncation

DATA ANALYSIS
EXPERIMENT OF 12/21/71, T=127 DEG K, RHO=1.135 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
0.0			-7.8000E-01
0.0772			-7.8298E-01
0.1543			-7.9111E-01
0.2315			-8.0236E-01
0.3086			-8.1435E-01
0.3857			-8.2493E-01
0.4629	2.3375E 03	2.3811E 03	-8.3238E-01
0.5400	2.2657E 03	2.2936E 03	-8.3773E-01
0.6171	2.2180E 03	2.2302E 03	-8.4123E-01
0.6942	2.2041E 03	2.2006E 03	-8.4217E-01
0.7713	2.2331E 03	2.2139E 03	-8.3981E-01
0.8483	2.3147E 03	2.2797E 03	-8.3331E-01
0.9254	2.4580E 03	2.4074E 03	-8.2173E-01
1.0024	2.6725E 03	2.6062E 03	-8.0413E-01
1.0794	2.9676E 03	2.8856E 03	-7.7945E-01
1.1564	3.3524E 03	3.2548E 03	-7.4653E-01
1.2334	3.8364E 03	3.7233E 03	-7.0407E-01
1.3104	4.4360E 03	4.3001E 03	-6.5064E-01
1.3873	5.2510E 03	5.0680E 03	-5.7849E-01
1.4642	6.4304E 03	6.1793E 03	-4.7319E-01
1.5411	8.1235E 03	7.7864E 03	-3.1846E-01
1.6179	1.0479E 04	1.0041E 04	-9.6845E-02
1.6947	1.3567E 04	1.3098E 04	2.1095E-01
1.7715	1.6309E 04	1.5978E 04	5.1858E-01
1.8482	1.8099E 04	1.7935E 04	7.5141E-01
1.9249	1.8650E 04	1.8677E 04	8.7402E-01
2.0016	1.7676E 04	1.7915E 04	8.4669E-01
2.0783	1.5075E 04	1.5415E 04	6.3154E-01
2.1549	1.2583E 04	1.2841E 04	3.9455E-01
2.2314	1.0635E 04	1.0828E 04	2.0668E-01
2.3079	9.1477E 03	9.2880E 03	6.1767E-02
2.3844	8.0360E 03	8.1363E 03	-4.5918E-02
2.4608	7.2159E 03	7.2875E 03	-1.2310E-01
2.5372	6.6047E 03	6.6570E 03	-1.7794E-01
2.6135	6.1490E 03	6.1857E 03	-2.1597E-01
2.6898	5.8308E 03	5.8543E 03	-2.3835E-01
2.7660	5.6340E 03	5.6466E 03	-2.4555E-01
2.8422	5.5427E 03	5.5465E 03	-2.3826E-01
2.9183	5.5411E 03	5.5378E 03	-2.1796E-01
2.9944	5.6132E 03	5.6045E 03	-1.8551E-01
3.0704	5.7434E 03	5.7309E 03	-1.4286E-01

TABLE 11.B (cont.)

Numerical Experiment: Truncation

DATA ANALYSIS
EXPERIMENT OF 12/21/71, T=127 DEG K, RHO=1.135 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
3.1463	5.9158E 03	5.9009E 03	-9.1643E-02
3.2222	6.1114E 03	6.0974E 03	-3.3673E-02
3.2981	6.2625E 03	6.2536E 03	1.9421E-02
3.3738	6.3509E 03	6.3467E 03	6.3318E-02
3.4495	6.3807E 03	6.3807E 03	9.7818E-02
3.5252	6.3559E 03	6.3594E 03	1.2313E-01
3.6007	6.2802E 03	6.2870E 03	1.3854E-01
3.6762	6.1578E 03	6.1674E 03	1.4431E-01
3.7517	5.9923E 03	6.0043E 03	1.4081E-01
3.8270	5.7878E 03	5.8019E 03	1.2729E-01
3.9023	5.5480E 03	5.5638E 03	1.0460E-01
3.9775	5.2769E 03	5.2941E 03	7.3040E-02
4.0526	4.9944E 03	5.0101E 03	3.5323E-02
4.1277	4.7484E 03	4.7616E 03	3.0613E-03
4.2027	4.5388E 03	4.5496E 03	-2.3519E-02
4.2776	4.3623E 03	4.3712E 03	-4.4094E-02
4.3524	4.2158E 03	4.2230E 03	-5.9444E-02
4.4271	4.0963E 03	4.1019E 03	-6.9379E-02
4.5018	4.0005E 03	4.0049E 03	-7.4771E-02
4.5764	3.9255E 03	3.9289E 03	-7.5544E-02
4.6508	3.8682E 03	3.8706E 03	-7.2421E-02
4.7252	3.8254E 03	3.8272E 03	-6.6182E-02
4.7995	3.7943E 03	3.7955E 03	-5.6927E-02
4.8737	3.7717E 03	3.7726E 03	-4.5798E-02
4.9478	3.7547E 03	3.7554E 03	-3.2972E-02
5.0219	3.7404E 03	3.7410E 03	-1.9768E-02
5.0958	3.7258E 03	3.7265E 03	-6.5213E-03
5.1696	3.7080E 03	3.7089E 03	5.7402E-03
5.2434	3.6840E 03	3.6852E 03	1.5773E-02
5.3170	3.6511E 03	3.6528E 03	2.3025E-02
5.3905	3.6064E 03	3.6085E 03	2.6202E-02
5.4639	3.5471E 03	3.5498E 03	2.4218E-02
5.5373	3.4731E 03	3.4761E 03	1.6412E-02
5.6105	3.3997E 03	3.4025E 03	8.0690E-03
5.6836	3.3292E 03	3.3318E 03	-2.3246E-06
5.7566	3.2615E 03	3.2640E 03	
5.8295	3.1967E 03	3.1990E 03	
5.9023	3.1345E 03	3.1367E 03	
5.9749	3.0749E 03	3.0770E 03	
6.0475	3.0178E 03	3.0198E 03	
6.1199	2.9631E 03	2.9650E 03	

TABLE 11.B (cont.)

Numerical Experiment: Truncation

DATA ANALYSIS
EXPERIMENT OF 12/21/71, T=127 DEG K, RHO=1.135 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
6.1923	2.9108E 03	2.9125E 03	
6.2645	2.8607E 03	2.8623E 03	
6.3365	2.8127E 03	2.8142E 03	
6.4085	2.7668E 03	2.7682E 03	
6.4804	2.7229E 03	2.7243E 03	
6.5521	2.6809E 03	2.6822E 03	
6.6237	2.6407E 03	2.6419E 03	
6.6951	2.6023E 03	2.6034E 03	
6.7665	2.5654E 03	2.5665E 03	
6.8377	2.5302E 03	2.5312E 03	
6.9088	2.4964E 03	2.4974E 03	
6.9797	2.4641E 03	2.4650E 03	
7.0506	2.4331E 03	2.4339E 03	
7.1212	2.4033E 03	2.4041E 03	
7.1918	2.3747E 03	2.3755E 03	
7.2622	2.3472E 03	2.3479E 03	
7.3325	2.3207E 03	2.3214E 03	
7.4026	2.2952E 03	2.2958E 03	
7.4726	2.2705E 03	2.2711E 03	
7.5424	2.2466E 03	2.2471E 03	
7.6122	2.2234E 03	2.2239E 03	
7.6817	2.2008E 03	2.2014E 03	
7.7511	2.1789E 03	2.1794E 03	
7.8204	2.1574E 03	2.1579E 03	
7.8895	2.1364E 03	2.1369E 03	
7.9585	2.1157E 03	2.1162E 03	
8.0273	2.0953E 03	2.0958E 03	
8.0960	2.0752E 03	2.0756E 03	
8.1645	2.0552E 03	2.0556E 03	
8.2328	2.0353E 03	2.0357E 03	
8.3010	2.0154E 03	2.0158E 03	
8.3691	1.9955E 03	1.9959E 03	
8.4370	1.9755E 03	1.9759E 03	
8.5047	1.9554E 03	1.9558E 03	
8.5722	1.9350E 03	1.9354E 03	
8.6396	1.9143E 03	1.9147E 03	
8.7069	1.8933E 03	1.8937E 03	
8.7739	1.8719E 03	1.8723E 03	
8.8408	1.8501E 03	1.8504E 03	

TABLE 11.B (cont.)

Numerical Experiment: Truncation

DATA ANALYSIS
EXPERIMENT OF 12/21/71, T=127 DEG K, RHO=1.135 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
0.3	0.0985	-10.8866	
0.4	0.2111	-10.4687	
0.5	0.3272	-9.9851	
0.6	0.4300	-9.4677	
0.7	0.5041	-8.9476	
0.8	0.5375	-8.4512	
0.9	0.5237	-7.9972	
1.0	0.4634	-7.5949	
1.1	0.3645	-7.2431	
1.2	0.2413	-6.9320	
1.3	0.1121	-6.6449	
1.4	-0.0038	-6.3630	
1.5	-0.0897	-6.0687	
1.6	-0.1349	-5.7500	
1.7	-0.1370	-5.4033	
1.8	-0.1025	-5.0343	
1.9	-0.0457	-4.6570	
2.0	0.0143	-4.2903	
2.1	0.0580	-3.9541	
2.2	0.0698	-3.6644	
2.3	0.0424	-3.4285	
2.4	-0.0209	-3.2431	
2.5	-0.1055	-3.0935	
2.6	-0.1880	-2.9554	
2.7	-0.2402	-2.7999	
2.8	-0.2344	-2.5985	
2.9	-0.1494	-2.3292	
3.0	0.0248	-1.9814	
3.1	0.2844	-1.5587	237.33
3.2	0.6113	-1.0791	129.18
3.3	0.9756	-0.5725	58.64
3.4	1.3405	-0.0761	7.02
3.5	1.6681	0.3720	-32.05
3.6	1.9256	0.7389	-61.48
3.7	2.0902	1.0020	-82.89
3.8	2.1528	1.1521	-97.29
3.9	2.1176	1.1940	-105.38
4.0	2.0013	1.1450	-107.82
4.1	1.8287	1.0306	-105.31
4.2	1.6279	0.8797	-98.73
4.3	1.4258	0.7198	-89.27
4.4	1.2437	0.5728	-78.38

TABLE 11.B (cont.)

Numerical Experiment: Truncation

DATA ANALYSIS
EXPERIMENT OF 12/21/71, T=127 DEG K, RHO=1.135 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
4.5	1.0948	0.4524	-67.71
4.6	0.9840	0.3639	-58.64
4.7	0.9088	0.3050	-51.93
4.8	0.8614	0.2683	-47.41
4.9	0.8321	0.2444	-44.15
5.0	0.8117	0.2242	-41.06
5.1	0.7937	0.2017	-37.24
5.2	0.7750	0.1743	-32.36
5.3	0.7563	0.1430	-26.61
5.4	0.7402	0.1110	-20.63
5.5	0.7307	0.0825	-15.21
5.6	0.7310	0.0612	-11.10
5.7	0.7428	0.0489	-8.64
5.8	0.7658	0.0453	-7.74
5.9	0.7976	0.0482	-7.91
6.0	0.8349	0.0541	-8.51
6.1	0.8741	0.0595	-8.95
6.2	0.9120	0.0615	-8.86
6.3	0.9470	0.0588	-8.13
6.4	0.9786	0.0515	-6.87
6.5	1.0073	0.0413	-5.32
6.6	1.0341	0.0304	-3.79
6.7	1.0599	0.0211	-2.56
6.8	1.0849	0.0150	-1.77
6.9	1.1083	0.0126	-1.45
7.0	1.1285	0.0133	-1.50
7.1	1.1433	0.0157	-1.76
7.2	1.1511	0.0183	-2.04
7.3	1.1504	0.0196	-2.19
7.4	1.1414	0.0188	-2.11
7.5	1.1250	0.0160	-1.82
7.6	1.1034	0.0119	-1.38
7.7	1.0791	0.0078	-0.92
7.8	1.0549	0.0048	-0.58
7.9	1.0328	0.0038	-0.47
8.0	1.0140	0.0050	-0.63
8.1	0.9987	0.0077	-0.99
8.2	0.9863	0.0109	-1.41
8.3	0.9758	0.0131	-1.72
8.4	0.9661	0.0134	-1.77
8.5	0.9566	0.0109	-1.45
8.6	0.9470	0.0057	-0.76

TABLE 11.B (cont.)

Numerical Experiment: Truncation

DATA ANALYSIS
EXPERIMENT OF 12/21/71, T=127 DEG K, RHO=1.135 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
8.7	0.9381	-0.0015	0.20
8.8	0.9307	-0.0093	1.27
8.9	0.9262	-0.0165	2.24
9.0	0.9253	-0.0218	2.95
9.1	0.9287	-0.0244	3.29
9.2	0.9363	-0.0242	3.24
9.3	0.9471	-0.0216	2.86
9.4	0.9601	-0.0175	2.29
9.5	0.9738	-0.0129	1.67
9.6	0.9869	-0.0088	1.13
9.7	0.9984	-0.0059	0.74
9.8	1.0080	-0.0042	0.53
9.9	1.0155	-0.0038	0.47
10.0	1.0213	-0.0040	0.50

TABLE 12.A

Numerical Experiment: $g(0) \approx +3$

DATA ANALYSIS
EXPERIMENT OF 11/30/71, T=143 DEG K, RHO=0.91 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
0.0			2.9000E-01
0.0772			1.4461E-01
0.1543			-1.3485E-01
0.2315			-3.6796E-01
0.3086			-5.2074E-01
0.3857			-6.1190E-01
0.4629	4.3780E 03	4.5851E 03	-6.5912E-01
0.5400	4.0134E 03	4.1756E 03	-6.8752E-01
0.6171	3.6940E 03	3.8112E 03	-7.1264E-01
0.6942	3.4468E 03	3.5189E 03	-7.3238E-01
0.7713	3.2988E 03	3.3257E 03	-7.4447E-01
0.8483	3.2769E 03	3.2587E 03	-7.4666E-01
0.9254	3.4080E 03	3.3447E 03	-7.3646E-01
1.0024	3.7189E 03	3.6134E 03	-7.1082E-01
1.0794	4.1675E 03	4.0477E 03	-6.7032E-01
1.1564	4.7199E 03	4.5817E 03	-6.1962E-01
1.2334	5.4034E 03	5.2435E 03	-5.5562E-01
1.3104	6.2455E 03	6.0611E 03	-4.7479E-01
1.3873	7.2731E 03	7.0620E 03	-3.7376E-01
1.4642	8.5135E 03	8.2738E 03	-2.4818E-01
1.5411	9.9938E 03	9.7239E 03	-9.3946E-02
1.6179	1.1741E 04	1.1440E 04	9.3958E-02
1.6947	1.3706E 04	1.3450E 04	3.2104E-01
1.7715	1.4913E 04	1.4813E 04	4.9493E-01
1.8482	1.5206E 04	1.5223E 04	5.7823E-01
1.9249	1.4780E 04	1.4877E 04	5.8428E-01
2.0016	1.3826E 04	1.3974E 04	5.2903E-01
2.0783	1.2538E 04	1.2709E 04	4.2881E-01
2.1549	1.1107E 04	1.1277E 04	3.0275E-01
2.2314	9.7257E 03	9.8722E 03	1.7132E-01
2.3079	8.5842E 03	8.6883E 03	5.8588E-02
2.3844	7.7783E 03	7.8539E 03	-1.7001E-02
2.4608	7.1349E 03	7.1935E 03	-7.5070E-02
2.5372	6.6272E 03	6.6711E 03	-1.1833E-01
2.6135	6.2411E 03	6.2726E 03	-1.4823E-01
2.6898	5.9624E 03	5.9837E 03	-1.6496E-01
2.7660	5.7774E 03	5.7902E 03	-1.6934E-01
2.8422	5.6719E 03	5.6780E 03	-1.6233E-01
2.9183	5.6322E 03	5.6331E 03	-1.4510E-01
2.9944	5.6443E 03	5.6415E 03	-1.1883E-01
3.0704	5.6854E 03	5.6817E 03	-8.6791E-02

TABLE 12.A (cont.)

Numerical Experiment: $g(0) \approx +3$

DATA ANALYSIS
EXPERIMENT OF 11/30/71, T=143 DEG K, RHO=0.91 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
3.1463	5.7346E 03	5.7306E 03	-5.2446E-02
3.2222	5.7862E 03	5.7823E 03	-1.6299E-02
3.2981	5.8345E 03	5.8312E 03	2.0100E-02
3.3738	5.8739E 03	5.8715E 03	5.5871E-02
3.4495	5.8989E 03	5.8978E 03	9.0023E-02
3.5252	5.9039E 03	5.9044E 03	1.2072E-01
3.6007	5.8834E 03	5.8858E 03	1.4699E-01
3.6762	5.8319E 03	5.8365E 03	1.6671E-01
3.7517	5.7439E 03	5.7510E 03	1.7868E-01
3.8270	5.6141E 03	5.6238E 03	1.8032E-01
3.9023	5.4370E 03	5.4495E 03	1.7029E-01
3.9775	5.2073E 03	5.2229E 03	1.4650E-01
4.0526	4.9421E 03	4.9571E 03	1.1063E-01
4.1277	4.7027E 03	4.7157E 03	7.8031E-02
4.2027	4.4911E 03	4.5023E 03	4.9734E-02
4.2776	4.3053E 03	4.3149E 03	2.5455E-02
4.3524	4.1434E 03	4.1515E 03	5.5580E-03
4.4271	4.0034E 03	4.0103E 03	-1.0532E-02
4.5018	3.8835E 03	3.8892E 03	-2.2522E-02
4.5764	3.7816E 03	3.7864E 03	-3.0855E-02
4.6508	3.6959E 03	3.6998E 03	-3.5735E-02
4.7252	3.6245E 03	3.6277E 03	-3.7403E-02
4.7995	3.5655E 03	3.5681E 03	-3.6202E-02
4.8737	3.5171E 03	3.5191E 03	-3.2425E-02
4.9478	3.4772E 03	3.4789E 03	-2.6496E-02
5.0219	3.4442E 03	3.4456E 03	-1.8779E-02
5.0958	3.4162E 03	3.4174E 03	-9.8066E-03
5.1696	3.3914E 03	3.3924E 03	-2.0862E-06
5.2434	3.3679E 03	3.3689E 03	
5.3170	3.3439E 03	3.3450E 03	
5.3905	3.3177E 03	3.3189E 03	
5.4639	3.2876E 03	3.2889E 03	
5.5373	3.2517E 03	3.2533E 03	
5.6105	3.2084E 03	3.2103E 03	
5.6836	3.1559E 03	3.1581E 03	
5.7566	3.0967E 03	3.0989E 03	
5.8295	3.0392E 03	3.0413E 03	
5.9023	2.9839E 03	2.9858E 03	
5.9749	2.9305E 03	2.9324E 03	
6.0475	2.8790E 03	2.8808E 03	
6.1199	2.8294E 03	2.8311E 03	

TABLE 12.A (cont.)

Numerical Experiment: $g(0) \approx +3$

DATA ANALYSIS
EXPERIMENT OF 11/30/71, T=143 DEG K, RHO=0.91 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
6.1923	2.7816E 03	2.7832E 03	
6.2645	2.7356E 03	2.7371E 03	
6.3365	2.6912E 03	2.6926E 03	
6.4085	2.6485E 03	2.6498E 03	
6.4804	2.6073E 03	2.6085E 03	
6.5521	2.5676E 03	2.5688E 03	
6.6237	2.5293E 03	2.5304E 03	
6.6951	2.4924E 03	2.4935E 03	
6.7665	2.4568E 03	2.4578E 03	
6.8377	2.4224E 03	2.4234E 03	
6.9088	2.3893E 03	2.3902E 03	
6.9797	2.3573E 03	2.3581E 03	
7.0506	2.3263E 03	2.3272E 03	
7.1212	2.2964E 03	2.2972E 03	
7.1918	2.2675E 03	2.2682E 03	
7.2622	2.2394E 03	2.2402E 03	
7.3325	2.2123E 03	2.2129E 03	
7.4026	2.1859E 03	2.1865E 03	
7.4726	2.1602E 03	2.1608E 03	
7.5424	2.1353E 03	2.1359E 03	
7.6122	2.1110E 03	2.1115E 03	
7.6817	2.0872E 03	2.0878E 03	
7.7511	2.0640E 03	2.0646E 03	
7.8204	2.0413E 03	2.0418E 03	
7.8895	2.0190E 03	2.0195E 03	
7.9585	1.9971E 03	1.9976E 03	
8.0273	1.9755E 03	1.9760E 03	
8.0960	1.9542E 03	1.9547E 03	
8.1645	1.9332E 03	1.9336E 03	
8.2328	1.9123E 03	1.9127E 03	
8.3010	1.8915E 03	1.8919E 03	
8.3691	1.8709E 03	1.8713E 03	
8.4370	1.8503E 03	1.8507E 03	
8.5047	1.8297E 03	1.8300E 03	
8.5722	1.8090E 03	1.8094E 03	
8.6396	1.7883E 03	1.7886E 03	
8.7069	1.7674E 03	1.7677E 03	
8.7739	1.7463E 03	1.7467E 03	
8.8408	1.7251E 03	1.7254E 03	

TABLE 12.A (cont.)

Numerical Experiment: $g(0) \approx +3$

DATA ANALYSIS
EXPERIMENT OF 11/30/71, T=143 DEG K, RHO=0.91 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
0.3	3.6148	-3.4829	
0.4	3.1663	-3.6893	
0.5	2.6337	-3.9340	
0.6	2.0488	-4.1996	
0.7	1.4483	-4.4639	
0.8	0.8712	-4.7017	
0.9	0.3557	-4.8864	
1.0	-0.0648	-4.9934	
1.1	-0.3654	-5.0034	
1.2	-0.5333	-4.9062	
1.3	-0.5695	-4.7024	
1.4	-0.4895	-4.4048	
1.5	-0.3219	-4.0379	
1.6	-0.1046	-3.6346	
1.7	0.1201	-3.2323	
1.8	0.3114	-2.8679	
1.9	0.4358	-2.5718	
2.0	0.4720	-2.3639	
2.1	0.4142	-2.2500	
2.2	0.2730	-2.2207	
2.3	0.0732	-2.2533	
2.4	-0.1493	-2.3147	
2.5	-0.3540	-2.3670	
2.6	-0.5013	-2.3731	
2.7	-0.5592	-2.3027	
2.8	-0.5078	-2.1367	
2.9	-0.3425	-1.8704	
3.0	-0.0743	-1.5137	
3.1	0.2723	-1.0896	230.19
3.2	0.6627	-0.6305	95.61
3.3	1.0577	-0.1731	21.68
3.4	1.4193	0.2468	-27.31
3.5	1.7155	0.5991	-61.44
3.6	1.9245	0.8635	-85.15
3.7	2.0366	1.0310	-100.91
3.8	2.0545	1.1042	-110.26
3.9	1.9914	1.0960	-114.29
4.0	1.8682	1.0259	-113.91
4.1	1.7092	0.9170	-109.97
4.2	1.5387	0.7922	-103.43
4.3	1.3773	0.6706	-95.42
4.4	1.2397	0.5658	-87.18

TABLE 12.A (cont.)

Numerical Experiment: $g(0) \approx +3$

DATA ANALYSIS
EXPERIMENT OF 11/30/71, T=143 DEG K, RHO=0.91 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
4.5	1.1335	0.4851	-79.86
4.6	1.0598	0.4292	-74.24
4.7	1.0142	0.3942	-70.39
4.8	0.9888	0.3733	-67.80
4.9	0.9747	0.3586	-65.60
5.0	0.9637	0.3432	-62.95
5.1	0.9496	0.3223	-59.29
5.2	0.9296	0.2941	-54.38
5.3	0.9036	0.2592	-48.35
5.4	0.8743	0.2206	-41.58
5.5	0.8456	0.1820	-34.66
5.6	0.8218	0.1472	-28.23
5.7	0.8067	0.1192	-22.87
5.8	0.8026	0.0995	-18.93
5.9	0.8103	0.0879	-16.42
6.0	0.8288	0.0830	-15.10
6.1	0.8560	0.0825	-14.49
6.2	0.8889	0.0835	-14.11
6.3	0.9244	0.0839	-13.61
6.4	0.9597	0.0819	-12.76
6.5	0.9927	0.0768	-11.52
6.6	1.0218	0.0687	-9.95
6.7	1.0462	0.0584	-8.21
6.8	1.0657	0.0469	-6.44
6.9	1.0803	0.0355	-4.78
7.0	1.0903	0.0249	-3.30
7.1	1.0957	0.0156	-2.06
7.2	1.0968	0.0078	-1.02
7.3	1.0941	0.0011	-0.14
7.4	1.0878	-0.0047	0.62
7.5	1.0788	-0.0100	1.31
7.6	1.0677	-0.0147	1.96
7.7	1.0558	-0.0189	2.53
7.8	1.0439	-0.0221	3.00
7.9	1.0330	-0.0241	3.30
8.0	1.0237	-0.0247	3.40
8.1	1.0163	-0.0236	3.29
8.2	1.0107	-0.0214	2.99
8.3	1.0063	-0.0183	2.58
8.4	1.0026	-0.0152	2.15
8.5	0.9986	-0.0127	1.80
8.6	0.9940	-0.0114	1.63

TABLE 12.A (cont.)

Numerical Experiment: $g(0) \simeq +3$

DATA ANALYSIS
EXPERIMENT OF 11/30/71, T=143 DEG K, RHO=0.91 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
8.7	0.9885	-0.0117	1.68
8.8	0.9821	-0.0135	1.95
8.9	0.9756	-0.0164	2.39
9.0	0.9696	-0.0198	2.89
9.1	0.9650	-0.0228	3.35
9.2	0.9627	-0.0247	3.63
9.3	0.9632	-0.0249	3.66
9.4	0.9665	-0.0232	3.39
9.5	0.9724	-0.0197	2.86
9.6	0.9802	-0.0148	2.14
9.7	0.9889	-0.0092	1.33
9.8	0.9976	-0.0037	0.53
9.9	1.0052	0.0010	-0.14
10.0	1.0112	0.0044	-0.63

TABLE 12.B

Numerical Experiment: $g(0) \approx +6$

DATA ANALYSIS
EXPERIMENT OF 11/30/71, T=143 DEG K, RHO=0.91 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
0.0			2.9000E-01
0.0772			1.4772E-01
0.1543			-1.2794E-01
0.2315			-3.6015E-01
0.3086			-5.1349E-01
0.3857			-6.0543E-01
0.4629	4.3780E 03	4.5851E 03	-6.5327E-01
0.5400	4.0134E 03	4.1756E 03	-6.8215E-01
0.6171	3.6940E 03	3.8112E 03	-7.0770E-01
0.6942	3.4468E 03	3.5189E 03	-7.2776E-01
0.7713	3.2988E 03	3.3257E 03	-7.4005E-01
0.8483	3.2769E 03	3.2587E 03	-7.4226E-01
0.9254	3.4080E 03	3.3447E 03	-7.3189E-01
1.0024	3.7189E 03	3.6134E 03	-7.0580E-01
1.0794	4.1675E 03	4.0477E 03	-6.6459E-01
1.1564	4.7199E 03	4.5817E 03	-6.1301E-01
1.2334	5.4034E 03	5.2435E 03	-5.4790E-01
1.3104	6.2455E 03	6.0611E 03	-4.6567E-01
1.3873	7.2731E 03	7.0620E 03	-3.6290E-01
1.4642	8.5135E 03	8.2738E 03	-2.3515E-01
1.5411	9.9938E 03	9.7239E 03	-7.8259E-02
1.6179	1.1741E 04	1.1440E 04	1.1288E-01
1.6947	1.3706E 04	1.3450E 04	3.4386E-01
1.7715	1.4913E 04	1.4813E 04	5.2075E-01
1.8482	1.5206E 04	1.5223E 04	6.0549E-01
1.9249	1.4780E 04	1.4877E 04	6.1168E-01
2.0016	1.3826E 04	1.3974E 04	5.5550E-01
2.0783	1.2538E 04	1.2709E 04	4.5360E-01
2.1549	1.1107E 04	1.1277E 04	3.2540E-01
2.2314	9.7257E 03	9.8722E 03	1.9175E-01
2.3079	8.5842E 03	8.6883E 03	7.7118E-02
2.3844	7.7783E 03	7.8539E 03	2.6417E-04
2.4608	7.1349E 03	7.1935E 03	-5.8768E-02
2.5372	6.6272E 03	6.6711E 03	-1.0273E-01
2.6135	6.2411E 03	6.2726E 03	-1.3311E-01
2.6898	5.9624E 03	5.9837E 03	-1.5010E-01
2.7660	5.7774E 03	5.7902E 03	-1.5452E-01
2.8422	5.6719E 03	5.6780E 03	-1.4735E-01
2.9183	5.6322E 03	5.6331E 03	-1.2979E-01
2.9944	5.6443E 03	5.6415E 03	-1.0304E-01
3.0704	5.6854E 03	5.6817E 03	-7.0408E-02

TABLE 12.B (cont.)

Numerical Experiment: $g(0) \approx +6$

DATA ANALYSIS
EXPERIMENT OF 11/30/71, T=143 DEG K, RHO=0.91 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
3.1463	5.7346E 03	5.7306E 03	-3.5434E-02
3.2222	5.7862E 03	5.7823E 03	1.3714E-03
3.2981	5.8345E 03	5.8312E 03	3.8434E-02
3.3738	5.8739E 03	5.8715E 03	7.4861E-02
3.4495	5.8989E 03	5.8978E 03	1.0964E-01
3.5252	5.9039E 03	5.9044E 03	1.4091E-01
3.6007	5.8834E 03	5.8858E 03	1.6767E-01
3.6762	5.8319E 03	5.8365E 03	1.8777E-01
3.7517	5.7439E 03	5.7510E 03	2.0000E-01
3.8270	5.6141E 03	5.6238E 03	2.0171E-01
3.9023	5.4370E 03	5.4495E 03	1.9155E-01
3.9775	5.2073E 03	5.2229E 03	1.6741E-01
4.0526	4.9421E 03	4.9571E 03	1.3097E-01
4.1277	4.7027E 03	4.7157E 03	9.7865E-02
4.2027	4.4911E 03	4.5023E 03	6.9135E-02
4.2776	4.3053E 03	4.3149E 03	4.4491E-02
4.3524	4.1434E 03	4.1515E 03	2.4302E-02
4.4271	4.0034E 03	4.0103E 03	7.9870E-03
4.5018	3.8835E 03	3.8892E 03	-4.1576E-03
4.5764	3.7816E 03	3.7864E 03	-1.2583E-02
4.6508	3.6959E 03	3.6998E 03	-1.7497E-02
4.7252	3.6245E 03	3.6277E 03	-1.9143E-02
4.7995	3.5655E 03	3.5681E 03	-1.7871E-02
4.8737	3.5171E 03	3.5191E 03	-1.3980E-02
4.9478	3.4772E 03	3.4789E 03	-7.9000E-03
5.0219	3.4442E 03	3.4456E 03	-2.2054E-06
5.0958	3.4162E 03	3.4174E 03	
5.1696	3.3914E 03	3.3924E 03	
5.2434	3.3679E 03	3.3689E 03	
5.3170	3.3439E 03	3.3450E 03	
5.3905	3.3177E 03	3.3189E 03	
5.4639	3.2876E 03	3.2889E 03	
5.5373	3.2517E 03	3.2533E 03	
5.6105	3.2084E 03	3.2103E 03	
5.6836	3.1559E 03	3.1581E 03	
5.7566	3.0967E 03	3.0989E 03	
5.8295	3.0392E 03	3.0413E 03	
5.9023	2.9839E 03	2.9858E 03	
5.9749	2.9305E 03	2.9324E 03	
6.0475	2.8790E 03	2.8808E 03	
6.1199	2.8294E 03	2.8311E 03	

TABLE 12.B (cont.)

Numerical Experiment: $g(0) \simeq +6$

DATA ANALYSIS
EXPERIMENT OF 11/30/71, T=143 DEG K, RHO=0.91 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
6.1923	2.7816E 03	2.7832E 03	
6.2645	2.7356E 03	2.7371E 03	
6.3365	2.6912E 03	2.6926E 03	
6.4085	2.6485E 03	2.6498E 03	
6.4804	2.6073E 03	2.6085E 03	
6.5521	2.5676E 03	2.5688E 03	
6.6237	2.5293E 03	2.5304E 03	
6.6951	2.4924E 03	2.4935E 03	
6.7665	2.4568E 03	2.4578E 03	
6.8377	2.4224E 03	2.4234E 03	
6.9088	2.3893E 03	2.3902E 03	
6.9797	2.3573E 03	2.3581E 03	
7.0506	2.3263E 03	2.3272E 03	
7.1212	2.2964E 03	2.2972E 03	
7.1918	2.2675E 03	2.2682E 03	
7.2622	2.2394E 03	2.2402E 03	
7.3325	2.2123E 03	2.2129E 03	
7.4026	2.1859E 03	2.1865E 03	
7.4726	2.1602E 03	2.1608E 03	
7.5424	2.1353E 03	2.1359E 03	
7.6122	2.1110E 03	2.1115E 03	
7.6817	2.0872E 03	2.0878E 03	
7.7511	2.0640E 03	2.0646E 03	
7.8204	2.0413E 03	2.0418E 03	
7.8895	2.0190E 03	2.0195E 03	
7.9585	1.9971E 03	1.9976E 03	
8.0273	1.9755E 03	1.9760E 03	
8.0960	1.9542E 03	1.9547E 03	
8.1645	1.9332E 03	1.9336E 03	
8.2328	1.9123E 03	1.9127E 03	
8.3010	1.8915E 03	1.8919E 03	
8.3691	1.8709E 03	1.8713E 03	
8.4370	1.8503E 03	1.8507E 03	
8.5047	1.8297E 03	1.8300E 03	
8.5722	1.8090E 03	1.8094E 03	
8.6396	1.7883E 03	1.7886E 03	
8.7069	1.7674E 03	1.7677E 03	
8.7739	1.7463E 03	1.7467E 03	
8.8408	1.7251E 03	1.7254E 03	

TABLE 12.B (cont.)

Numerical Experiment: $g(0) \approx +6$

DATA ANALYSIS
EXPERIMENT OF 11/30/71, T=143 DEG K, RHO=0.91 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
0.3	6.0030	-1.1246	
0.4	5.1121	-1.7540	
0.5	4.0946	-2.4613	
0.6	3.0286	-3.1843	
0.7	1.9928	-3.8609	
0.8	1.0586	-4.4351	
0.9	0.2834	-4.8625	
1.0	-0.2942	-5.1144	
1.1	-0.6572	-5.1802	
1.2	-0.8111	-5.0680	
1.3	-0.7817	-4.8029	
1.4	-0.6113	-4.4233	
1.5	-0.3526	-3.9764	
1.6	-0.0621	-3.5123	
1.7	0.2068	-3.0779	
1.8	0.4102	-2.7114	
1.9	0.5186	-2.4385	
2.0	0.5196	-2.2695	
2.1	0.4185	-2.1990	
2.2	0.2365	-2.2077	
2.3	0.0069	-2.2653	
2.4	-0.2299	-2.3355	
2.5	-0.4327	-2.3811	
2.6	-0.5650	-2.3694	
2.7	-0.5999	-2.2762	
2.8	-0.5237	-2.0894	
2.9	-0.3373	-1.8096	
3.0	-0.0552	-1.4502	
3.1	0.2964	-1.0346	214.76
3.2	0.6839	-0.5931	89.29
3.3	1.0708	-0.1586	19.75
3.4	1.4225	0.2379	-26.17
3.5	1.7104	0.5708	-58.06
3.6	1.9151	0.8228	-80.29
3.7	2.0282	0.9864	-95.27
3.8	2.0518	1.0638	-104.51
3.9	1.9975	1.0656	-109.02
4.0	1.8836	1.0082	-109.57
4.1	1.7321	0.9115	-106.83
4.2	1.5653	0.7955	-101.50
4.3	1.4029	0.6779	-94.41
4.4	1.2598	0.5721	-86.56

TABLE 12.B (cont.)

Numerical Experiment: $g(0) \simeq +6$

DATA ANALYSIS
EXPERIMENT OF 11/30/71, T=143 DEG K, RHO=0.91 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
4.5	1.1451	0.4861	-79.02
4.6	1.0617	0.4229	-72.64
4.7	1.0073	0.3806	-67.86
4.8	0.9759	0.3545	-64.53
4.9	0.9595	0.3378	-62.06
5.0	0.9499	0.3242	-59.70
5.1	0.9403	0.3083	-56.80
5.2	0.9263	0.2867	-52.97
5.3	0.9063	0.2588	-48.08
5.4	0.8813	0.2256	-42.28
5.5	0.8542	0.1898	-35.94
5.6	0.8293	0.1550	-29.58
5.7	0.8106	0.1242	-23.79
5.8	0.8015	0.1000	-19.06
5.9	0.8042	0.0836	-15.70
6.0	0.8189	0.0747	-13.68
6.1	0.8444	0.0720	-12.74
6.2	0.8781	0.0732	-12.45
6.3	0.9165	0.0758	-12.35
6.4	0.9562	0.0776	-12.10
6.5	0.9940	0.0767	-11.49
6.6	1.0271	0.0723	-10.44
6.7	1.0541	0.0643	-8.99
6.8	1.0741	0.0532	-7.27
6.9	1.0874	0.0404	-5.42
7.0	1.0945	0.0271	-3.59
7.1	1.0965	0.0146	-1.92
7.2	1.0946	0.0038	-0.50
7.3	1.0898	-0.0047	0.62
7.4	1.0830	-0.0109	1.43
7.5	1.0749	-0.0150	1.98
7.6	1.0660	-0.0174	2.31
7.7	1.0567	-0.0186	2.49
7.8	1.0474	-0.0191	2.59
7.9	1.0382	-0.0192	2.62
8.0	1.0293	-0.0191	2.63
8.1	1.0211	-0.0189	2.62
8.2	1.0136	-0.0184	2.57
8.3	1.0067	-0.0178	2.50
8.4	1.0005	-0.0170	2.42
8.5	0.9947	-0.0163	2.33
8.6	0.9893	-0.0158	2.27

TABLE 12.B (cont.)

Numerical Experiment: $g(0) \simeq +6$

DATA ANALYSIS
EXPERIMENT OF 11/30/71, T=143 DEG K, RHO=0.91 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
8.7	0.9841	-0.0157	2.26
8.8	0.9791	-0.0160	2.33
8.9	0.9744	-0.0169	2.46
9.0	0.9704	-0.0182	2.66
9.1	0.9674	-0.0195	2.86
9.2	0.9659	-0.0206	3.02
9.3	0.9661	-0.0210	3.07
9.4	0.9684	-0.0204	2.98
9.5	0.9727	-0.0186	2.70
9.6	0.9788	-0.0156	2.26
9.7	0.9862	-0.0116	1.67
9.8	0.9941	-0.0070	1.01
9.9	1.0019	-0.0024	0.34
10.0	1.0089	0.0018	-0.26

TABLE 13.

Numerical Experiment: Absorption Factors

DATA ANALYSIS
EXPERIMENT OF 9/28/71(II), T=133 DEG K, RHO=1.054 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
0.0			-6.0000E-01
0.0772			-6.1365E-01
0.1543			-6.4822E-01
0.2315			-6.9051E-01
0.3086			-7.2978E-01
0.3857			-7.6060E-01
0.4629	2.6814E 03	2.7817E 03	-7.8093E-01
0.5400	2.5071E 03	2.5828E 03	-7.9562E-01
0.6171	2.3615E 03	2.4125E 03	-8.0792E-01
0.6942	2.2595E 03	2.2857E 03	-8.1673E-01
0.7713	2.2159E 03	2.2173E 03	-8.2072E-01
0.8483	2.2453E 03	2.2220E 03	-8.1852E-01
0.9254	2.3627E 03	2.3147E 03	-8.0866E-01
1.0024	2.5826E 03	2.5099E 03	-7.8945E-01
1.0794	2.9199E 03	2.8226E 03	-7.5924E-01
1.1564	3.3892E 03	3.2672E 03	-7.1604E-01
1.2334	4.0051E 03	3.8586E 03	-6.5770E-01
1.3104	4.7675E 03	4.6028E 03	-5.8252E-01
1.3873	5.6923E 03	5.4994E 03	-4.8950E-01
1.4642	6.8549E 03	6.6233E 03	-3.7025E-01
1.5411	8.3319E 03	8.0529E 03	-2.1499E-01
1.6179	1.0200E 04	9.8663E 03	-1.3098E-02
1.6947	1.2484E 04	1.2143E 04	2.4767E-01
1.7715	1.4451E 04	1.4218E 04	5.0029E-01
1.8482	1.5675E 04	1.5571E 04	6.8752E-01
1.9249	1.5940E 04	1.5982E 04	7.7912E-01
2.0016	1.5029E 04	1.5234E 04	7.4209E-01
2.0783	1.2873E 04	1.3151E 04	5.4326E-01
2.1549	1.0859E 04	1.1065E 04	3.3247E-01
2.2314	9.3169E 03	9.4677E 03	1.6950E-01
2.3079	8.1619E 03	8.2699E 03	4.8287E-02
2.3844	7.3082E 03	7.3854E 03	-3.9175E-02
2.4608	6.6707E 03	6.7277E 03	-1.0177E-01
2.5372	6.1683E 03	6.2128E 03	-1.4825E-01
2.6135	5.7687E 03	5.8022E 03	-1.8366E-01
2.6898	5.4657E 03	5.4895E 03	-2.0706E-01
2.7660	5.2525E 03	5.2678E 03	-2.1858E-01
2.8422	5.1222E 03	5.1301E 03	-2.1841E-01
2.9183	5.0679E 03	5.0694E 03	-2.0613E-01
2.9944	5.0829E 03	5.0789E 03	-1.8209E-01
3.0704	5.1602E 03	5.1515E 03	-1.4648E-01

TABLE 13. (cont.)

Numerical Experiment: Absorption Factors

DATA ANALYSIS
EXPERIMENT OF 9/28/71(II), T=133 DEG K, RHO=1.054 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
3.1463	5.2931E 03	5.2806E 03	-9.9683E-02
3.2222	5.4698E 03	5.4569E 03	-4.2307E-02
3.2981	5.6034E 03	5.5960E 03	1.0272E-02
3.3738	5.6703E 03	5.6678E 03	5.1597E-02
3.4495	5.6779E 03	5.6794E 03	8.2370E-02
3.5252	5.6335E 03	5.6383E 03	1.0251E-01
3.6007	5.5443E 03	5.5517E 03	1.1297E-01
3.6762	5.4174E 03	5.4269E 03	1.1481E-01
3.7517	5.2601E 03	5.2711E 03	1.0835E-01
3.8270	5.0795E 03	5.0915E 03	9.5078E-02
3.9023	4.8827E 03	4.8952E 03	7.6242E-02
3.9775	4.6767E 03	4.6892E 03	5.2730E-02
4.0526	4.4685E 03	4.4807E 03	2.6599E-02
4.1277	4.2652E 03	4.2766E 03	-7.6985E-04
4.2027	4.0736E 03	4.0839E 03	-2.7814E-02
4.2776	3.9057E 03	3.9142E 03	-5.0759E-02
4.3524	3.7664E 03	3.7732E 03	-6.7942E-02
4.4271	3.6526E 03	3.6580E 03	-7.9700E-02
4.5018	3.5616E 03	3.5658E 03	-8.6357E-02
4.5764	3.4907E 03	3.4939E 03	-8.8279E-02
4.6508	3.4371E 03	3.4394E 03	-8.5945E-02
4.7252	3.3979E 03	3.3995E 03	-7.9894E-02
4.7995	3.3705E 03	3.3716E 03	-7.0642E-02
4.8737	3.3521E 03	3.3528E 03	-5.8603E-02
4.9478	3.3401E 03	3.3406E 03	-4.4937E-02
5.0219	3.3318E 03	3.3321E 03	-3.0146E-02
5.0958	3.3244E 03	3.3248E 03	-1.4833E-02
5.1696	3.3155E 03	3.3159E 03	-1.9073E-06
5.2434	3.3022E 03	3.3029E 03	
5.3170	3.2822E 03	3.2832E 03	
5.3905	3.2527E 03	3.2541E 03	
5.4639	3.2112E 03	3.2132E 03	
5.5373	3.1576E 03	3.1597E 03	
5.6105	3.1035E 03	3.1056E 03	
5.6836	3.0511E 03	3.0531E 03	
5.7566	3.0002E 03	3.0021E 03	
5.8295	2.9509E 03	2.9527E 03	
5.9023	2.9031E 03	2.9048E 03	
5.9749	2.8567E 03	2.8584E 03	
6.0475	2.8118E 03	2.8133E 03	
6.1199	2.7682E 03	2.7696E 03	

TABLE 13. (cont.)

Numerical Experiment: Absorption Factors

DATA ANALYSIS
EXPERIMENT OF 9/28/71(II), T=133 DEG K, RHO=1.054 GM/CC

S	I(S) SMOOTHED	I(S) CORRECTED FOR DISTORTION	I(S) STRUCTURE FACTOR
6.1923	2.7259E 03	2.7273E 03	
6.2645	2.6848E 03	2.6862E 03	
6.3365	2.6451E 03	2.6463E 03	
6.4085	2.6065E 03	2.6077E 03	
6.4804	2.5690E 03	2.5702E 03	
6.5521	2.5327E 03	2.5338E 03	
6.6237	2.4974E 03	2.4984E 03	
6.6951	2.4631E 03	2.4641E 03	
6.7665	2.4298E 03	2.4308E 03	
6.8377	2.3975E 03	2.3984E 03	
6.9088	2.3661E 03	2.3669E 03	
6.9797	2.3355E 03	2.3363E 03	
7.0506	2.3057E 03	2.3065E 03	
7.1212	2.2768E 03	2.2775E 03	
7.1918	2.2485E 03	2.2493E 03	
7.2622	2.2210E 03	2.2217E 03	
7.3325	2.1941E 03	2.1948E 03	
7.4026	2.1679E 03	2.1686E 03	
7.4726	2.1423E 03	2.1429E 03	
7.5424	2.1172E 03	2.1178E 03	
7.6122	2.0926E 03	2.0932E 03	
7.6817	2.0686E 03	2.0691E 03	
7.7511	2.0449E 03	2.0455E 03	
7.8204	2.0217E 03	2.0222E 03	
7.8895	1.9989E 03	1.9994E 03	
7.9585	1.9764E 03	1.9768E 03	
8.0273	1.9542E 03	1.9546E 03	
8.0960	1.9323E 03	1.9327E 03	
8.1645	1.9106E 03	1.9110E 03	
8.2328	1.8891E 03	1.8895E 03	
8.3010	1.8678E 03	1.8682E 03	
8.3691	1.8467E 03	1.8471E 03	
8.4370	1.8256E 03	1.8260E 03	
8.5047	1.8047E 03	1.8051E 03	
8.5722	1.7838E 03	1.7842E 03	
8.6396	1.7629E 03	1.7633E 03	
8.7069	1.7420E 03	1.7424E 03	
8.7739	1.7211E 03	1.7214E 03	
8.8408	1.7001E 03	1.7004E 03	

TABLE 13. (cont.)

Numerical Experiment: Absorption Factors

DATA ANALYSIS
EXPERIMENT OF 9/28/71(II), T=133 DEG K, RHO=1.054 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
0.3	-1.5145	-11.1380	
0.4	-0.9580	-10.3034	
0.5	-0.3806	-9.3939	
0.6	0.1456	-8.4966	
0.7	0.5608	-7.6867	
0.8	0.8257	-7.0168	
0.9	0.9266	-6.5120	
1.0	0.8754	-6.1684	
1.1	0.7059	-5.9573	
1.2	0.4660	-5.8332	
1.3	0.2083	-5.7431	
1.4	-0.0191	-5.6377	
1.5	-0.1809	-5.4796	
1.6	-0.2596	-5.2494	
1.7	-0.2568	-4.9473	
1.8	-0.1906	-4.5912	
1.9	-0.0908	-4.2112	
2.0	0.0089	-3.8422	
2.1	0.0786	-3.5157	
2.2	0.0980	-3.2529	
2.3	0.0612	-3.0608	
2.4	-0.0224	-2.9299	
2.5	-0.1306	-2.8373	
2.6	-0.2321	-2.7505	
2.7	-0.2936	-2.6344	
2.8	-0.2860	-2.4582	
2.9	-0.1902	-2.2013	
3.0	-0.0006	-1.8572	
3.1	0.2733	-1.4351	243.77
3.2	0.6086	-0.9583	125.77
3.3	0.9729	-0.4600	51.49
3.4	1.3295	0.0217	-2.19
3.5	1.6430	0.4502	-42.59
3.6	1.8847	0.7960	-72.99
3.7	2.0366	1.0404	-95.12
3.8	2.0928	1.1778	-110.03
3.9	2.0598	1.2150	-118.55
4.0	1.9537	1.1695	-121.41
4.1	1.7973	1.0653	-119.47
4.2	1.6156	0.9288	-113.77
4.3	1.4319	0.7845	-105.58
4.4	1.2649	0.6520	-96.37

TABLE 13. (cont.)

Numerical Experiment: Absorption Factors

DATA ANALYSIS
EXPERIMENT OF 9/28/71(II), T=133 DEG K, RHO=1.054 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
4.5	1.1265	0.5437	-87.65
4.6	1.0216	0.4645	-80.66
4.7	0.9489	0.4130	-76.00
4.8	0.9026	0.3829	-73.41
4.9	0.8746	0.3655	-71.97
5.0	0.8566	0.3524	-70.48
5.1	0.8422	0.3369	-67.94
5.2	0.8273	0.3152	-63.81
5.3	0.8109	0.2869	-58.06
5.4	0.7946	0.2537	-51.15
5.5	0.7811	0.2193	-43.83
5.6	0.7737	0.1875	-36.91
5.7	0.7751	0.1614	-31.04
5.8	0.7865	0.1424	-26.57
5.9	0.8075	0.1304	-23.43
6.0	0.8363	0.1236	-21.27
6.1	0.8701	0.1192	-19.60
6.2	0.9057	0.1143	-17.94
6.3	0.9403	0.1064	-15.98
6.4	0.9719	0.0944	-13.59
6.5	0.9995	0.0781	-10.82
6.6	1.0230	0.0588	-7.87
6.7	1.0430	0.0385	-5.00
6.8	1.0605	0.0196	-2.48
6.9	1.0763	0.0041	-0.51
7.0	1.0905	-0.0065	0.79
7.1	1.1031	-0.0120	1.44
7.2	1.1131	-0.0130	1.54
7.3	1.1196	-0.0107	1.26
7.4	1.1214	-0.0069	0.82
7.5	1.1178	-0.0034	0.40
7.6	1.1085	-0.0014	0.17
7.7	1.0941	-0.0019	0.23
7.8	1.0755	-0.0048	0.59
7.9	1.0545	-0.0098	1.23
8.0	1.0325	-0.0160	2.04
8.1	1.0113	-0.0224	2.91
8.2	0.9921	-0.0282	3.73
8.3	0.9758	-0.0329	4.41
8.4	0.9626	-0.0362	4.91
8.5	0.9525	-0.0383	5.25
8.6	0.9452	-0.0394	5.44

TABLE 13. (cont.)

Numerical Experiment: Absorption Factors

DATA ANALYSIS
EXPERIMENT OF 9/28/71(II), T=133 DEG K, RHO=1.054 GM/CC

R, ANGSTROMS	G(R)	C(R)	PY U(R)/K
8.7	0.9402	-0.0399	5.53
8.8	0.9372	-0.0399	5.55
8.9	0.9362	-0.0395	5.50
9.0	0.9372	-0.0386	5.36
9.1	0.9403	-0.0367	5.09
9.2	0.9457	-0.0337	4.65
9.3	0.9534	-0.0292	4.01
9.4	0.9631	-0.0234	3.19
9.5	0.9743	-0.0165	2.23
9.6	0.9863	-0.0090	1.21
9.7	0.9982	-0.0017	0.23
9.8	1.0089	0.0047	-0.63
9.9	1.0179	0.0097	-1.28
10.0	1.0245	0.0129	-1.69

APPENDIX A

DUAL FILTERS

A. Introduction

The independent variable in x-ray analysis is called the scattering parameter and is inversely proportional to the wavelength, λ, of the radiation. An x-ray tube does not generate just one wavelength of radiation but usually four characteristic wavelengths on a continuous background.[1]

The desired radiation is the $K\alpha_1$ and $K\alpha_2$ wavelengths which are close to each other and designated as $K\bar{\alpha}$. For molybdenum, the radiation used in this experiment, these two wavelengths are 0.70926 and 0.71354 Å with $K\bar{\alpha}$ computed as a weighted average of 0.7107 Å. The other undesired wavelengths are $K\beta_1$ and $K\beta_2$ at 0.63225 and 0.62099 Å, the latter being very weak and actually a doublet. The continuous background radiation is a characteristic of the manner in which the x-ray tube is operated.

The use of dual filters,[1] also called Ross Filters, was the method used in this experiment to observe only the $K\bar{\alpha}$ scattered radiation. This method relies on the fact that the mass absorption coefficient for all elements is approximately proportional to λ^3. Two elements are chosen so that one has its K-absorption edge just

above the desired radiation, $K\bar{\alpha}$, and the other just below. The filters are matched usually at the $K\beta_1$ wavelength by making them the appropriate thickness. Placing one filter in the main beam and then the other for the same period of time and subtracting the two intensities yields the scattered radiation between the two absorption edges assuming the x-ray source is stable.

This technique then requires that the counting system be able to detect both the $K\alpha$ and $K\beta$ wavelengths. The electronic pulse height discriminator is then used to eliminate other wavelengths.

The scintillation detector used did not have the resolution required to separate the $K\alpha$ and $K\beta$ wavelengths. If it had, this procedure would not have been required.

The best filter materials for a molybdenum source are zirconium, called the β-filter since its absorption edge is below the $K\bar{\alpha}$ region, and yttrium, called the α-filter.

B. Procedure to Obtain Dual Filters

Since a perfect balance over all wavelengths of the dual filters cannot be obtained, the following was carried out. It was decided to match the transmissions of the filters on the Mo $K\beta_1$ peak and maximize the difference on the Mo $K\bar{\alpha}$ peak. This is a simple optimiza-

tion problem, but also important is how fast the difference in transmissions is changing in the region of the optimum. Table A.1 was made up using the thickness of the beta filter, zirconium in this case, as the independent variable and computing the alpha filter thickness, yttrium, required for a matched β_1 transmission. Also tabulated is the %-transmission for each filter on the $\bar{\alpha}$ peak, the $\bar{\alpha}$ difference and the β_1 transmission for both.

By examining this Table the optimum appears to yield a maximum difference in transmissions of about 60%. The difference is changing slowly relative to thickness, indicating that in practice something close to the optimum may be achieved.

The filters were obtained as follows. The yttrium was cold rolled to a thickness in the neighborhood of 2 mils. The resulting transmission was about 14% on the Mo Kβ_1 peak. The zirconium, which was much easier to cold roll, was then brought down in thickness in steps until a match was obtained on the Kβ_1 wavelength. The Kα or Kβ radiation was obtained from the Bragg reflection off a LiF single crystal.

The match, or mismatch, was observed by alternately taking two second counts on each filter until a total of 60 seconds was obtained on the Kβ_1 wavelength. The

desired ratio of the counts through the yttrium to the zirconium would be unity. The final ratios for three sets of measurements were 1.0072, 1.0058 and 1.0052. The actual counts corresponding to the three ratios were 160146 and 159000, 160143 and 159210, and 159381 and 158550.

Figure A.1 indicates the relative balance obtained for these filters. The values used for Figure A.1 are presented in Table A.2.

C. Pertinent Physical Constants[1]

The mass absorption coefficient, μ/ρ, at $\lambda = 0.7107$ Å, for zirconium is 15.9 cm^2/gm and for yttrium,75. At $\lambda = 0.6322$ Å, μ/ρ for zirconium is 79 and yttrium,100. The density of zirconium is about 6.5 gm/cc and for yttrium,about 4.5 gm/cc. The K-absorption edge for zirconium is at 0.6887 Å and for yttrium, 0.7276 Å.

REFERENCE FOR APPENDIX A

1. C. H. Macgillavry and G. D. Rieck, ed., International Tables for X-ray Crystallography, Vol III, Kynock Press, Birmingham, England (1962).

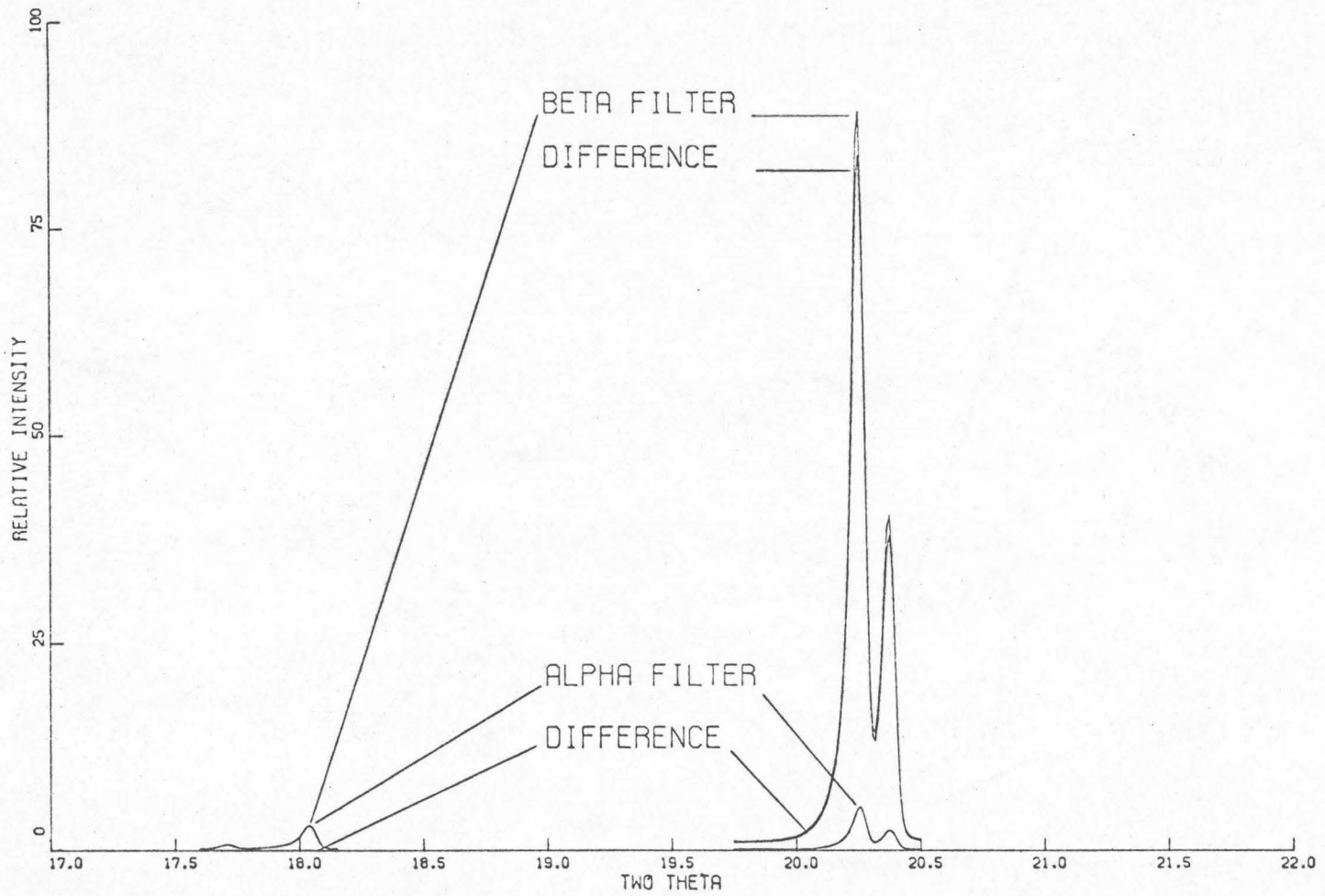


Figure A.1. Dual Filter Spectra, Alpha-Beta Regions off LiF Single Crystal, Molybdenum Radiation

TABLE A.1

DUAL FILTERS

THICKNESS - TRANSMISSION TABLE

Zr (in.)	Alpha %-trans.	Y (in.)	Alpha %-trans.	Difference	Beta %-trans.
0.0011	74.92	0.0017	14.76	60.15	23.82
0.0012	72.98	0.0018	12.41	60.57	20.91
0.0013	71.09	0.0020	10.43	60.66	18.35
0.0014	69.25	0.0021	8.76	60.48	16.11
0.0015	67.45	0.0023	7.36	60.09	14.14
0.0016	65.70	0.0024	6.19	59.52	12.41
0.0017	64.00	0.0026	5.20	58.80	10.89
0.0018	62.34	0.0027	4.37	57.97	9.56
0.0019	60.73	0.0028	3.67	57.06	8.39
0.0020	59.15	0.0030	3.09	56.07	7.36
0.0021	57.62	0.0032	2.59	55.03	6.46
0.0022	56.13	0.0033	2.18	53.95	5.67
0.0023	54.67	0.0035	1.83	52.84	4.98
0.0024	53.26	0.0037	1.54	51.72	4.37
0.0025	51.88	0.0038	1.29	50.58	3.84
0.0026	50.53	0.0040	1.09	49.45	3.37
0.0027	49.22	0.0041	0.91	48.31	2.96
0.0028	47.95	0.0043	0.77	47.18	2.59
0.0029	46.71	0.0044	0.65	46.06	2.28
0.0030	45.50	0.0046	0.54	44.95	2.00
0.0031	44.32	0.0047	0.46	43.86	1.75
0.0032	43.17	0.0049	0.38	42.79	1.54
0.0033	42.05	0.0050	0.32	41.73	1.35
0.0034	40.96	0.0052	0.27	40.69	1.19
0.0035	39.90	0.0053	0.23	39.67	1.04
0.0036	38.87	0.0055	0.19	38.68	0.91
0.0037	37.86	0.0056	0.16	37.70	0.80

Radiation: Molybdenum

TABLE A.2

DUAL FILTER SPECTRA

SCAN OF ALPHA AND BETA REGIONS USING LIF CRYSTAL
COUNTS FOR 60 SECONDS

TWOTHETA (DEG)	ZIRCONIUM	YTTRIUM	DIFFERENCE
17.60	1415	1375	40
17.61	1590	1459	131
17.62	1563	1600	-37
17.63	1813	1765	48
17.64	2073	1882	191
17.65	2272	2145	127
17.66	2515	2584	-69
17.67	2983	2957	26
17.68	3589	3445	144
17.69	4006	3813	193
17.70	4435	4294	141
17.71	4583	4443	140
17.72	4195	4075	120
17.73	3574	3541	33
17.74	2877	2679	198
17.75	2280	2236	44
17.76	1992	1890	102
17.77	1952	1825	127
17.78	1935	1905	30
17.79	1830	1859	-29
17.80	1995	1826	169
17.81	2028	1918	110
17.82	1976	1928	48
17.83	2114	2004	110
17.84	2176	2117	59
17.85	2246	2221	25
17.86	2380	2383	-3
17.87	2478	2494	-16
17.88	2634	2651	-17
17.89	2911	2805	106
17.90	3101	3091	10
17.91	3419	3333	86
17.92	3691	3570	121
17.93	4066	3887	179
17.94	4441	4401	40
17.95	4875	4717	158
17.96	5470	5318	152
17.97	6031	6121	-90
17.98	7327	7010	317
17.99	8525	8438	87
18.00	10395	10189	206

TABLE A.2 (cont.)

DUAL FILTER SPECTRA

SCAN OF ALPHA AND BETA REGIONS USING LIF CRYSTAL
COUNTS FOR 60 SECONDS

TWOTHETA (DEG)	ZIRCONIUM	YTTRIUM	DIFFERENCE
18.01	12747	12547	200
18.02	15533	15242	291
18.03	17697	17384	313
18.04	18283	18086	197
18.05	17114	16975	139
18.06	13794	13765	29
18.07	9974	9929	45
18.08	6160	6015	145
18.09	3645	3645	0
18.10	2341	2303	38
18.11	1875	1768	107
18.12	1582	1541	41
18.13	1522	1503	19
18.14	1427	1406	21
18.15	1418	1325	93
19.75	7006	783	6223
19.76	6785	749	6036
19.77	6863	718	6145
19.78	6908	727	6181
19.79	6835	708	6127
19.80	7018	770	6248
19.81	6973	741	6232
19.82	7071	741	6330
19.83	7086	760	6326
19.84	7264	763	6501
19.85	7100	720	6380
19.86	7211	753	6458
19.87	7350	712	6638
19.88	7416	744	6672
19.89	7510	811	6699
19.90	7484	754	6730
19.91	7882	753	7129
19.92	8002	791	7211
19.93	8200	816	7384
19.94	8288	827	7461
19.95	8663	836	7827
19.96	9037	872	8165
19.97	9490	899	8591
19.98	9780	945	8835
19.99	10180	959	9221
20.00	10793	1016	9777

TABLE A.2 (cont.)

DUAL FILTER SPECTRA

SCAN OF ALPHA AND BETA REGIONS USING LIF CRYSTAL
COUNTS FOR 60 SECONDS

TWOTHETA (DEG)	ZIRCONIUM	YTTRIUM	DIFFERENCE
20.01	11343	1011	10332
20.02	12083	1065	11018
20.03	13294	1157	12137
20.04	14150	1209	12941
20.05	16038	1360	14678
20.06	17544	1462	16082
20.07	19235	1574	17661
20.08	21758	1845	19913
20.09	24622	2023	22599
20.10	27929	2419	25510
20.11	32091	2498	29593
20.12	36734	2910	33824
20.13	42576	3313	39263
20.14	50367	3767	46600
20.15	58521	4293	54228
20.16	67454	4990	62464
20.17	80783	5884	74899
20.18	99332	7061	92271
20.19	123843	8488	115355
20.20	157002	10605	146397
20.21	202518	13262	189256
20.22	263049	16794	246255
20.23	343055	20867	322188
20.24	439161	26079	413082
20.25	515195	30644	484551
20.26	535341	31730	503611
20.27	464277	27567	436710
20.28	343716	21004	322712
20.29	213508	13767	199741
20.30	120440	8100	112340
20.31	88608	6178	82430
20.32	85816	5865	79951
20.33	99410	6989	92421
20.34	123062	8267	114795
20.35	155408	10008	145400
20.36	198346	12399	185947
20.37	233666	14537	219129
20.38	243148	14634	228514
20.39	214155	13080	201075
20.40	152515	9719	142796
20.41	91359	6146	85213

TABLE A.2 (cont.)

DUAL FILTER SPECTRA

SCAN OF ALPHA AND BETA REGIONS USING LIF CRYSTAL
COUNTS FOR 60 SECONDS

TWOTHETA (DEG)	ZIRCONIUM	YTTRIUM	DIFFERENCE
20.42	45561	3383	42178
20.43	23551	1822	21729
20.44	15024	1215	13809
20.45	11763	982	10781
20.46	10321	898	9423
20.47	9554	851	8703
20.48	8826	776	8050
20.49	8360	720	7640
20.50	8238	725	7513

APPENDIX B

ATOMIC SCATTERING FACTORS

Atomic scattering factors for beryllium and argon were obtained from the literature.[1,2] Cubic spline[3] interpolating coefficients were then calculated from the available data for future use.

The cubic spline interpolation requires as given information the first derivatives at the two end points of the data range. A zero derivative was used for all scattering factors, coherent and incoherent, at $\sin(\theta)/\lambda = 0$. The literature tabulates values of the scattering factors to relatively high values of $\sin(\theta)/\lambda$ where a reasonable value for the first derivative of these data was estimated to be zero.

The coherent scattering factor data were corrected for dispersion[4] for molybdenum $K\bar{\alpha}$ radiation. The incoherent scattering factor data plots that were made up are:

$$I_{inc} = (\nu'/\nu)^2 I^o_{inc} \qquad (1)$$

where I^o_{inc} is from the literature. The $(\nu'/\nu)^2$ term is the Breit-Dirac correction term[5] where ν and ν' are the frequencies of the radiation before and after Compton[6] scattering. The final incoherent data also

pertain only to molybdenum $K\bar{\alpha}$ radiation.

Tables B.1 through B.4 present the results of the spline interpolation and Figures B.1 and B.2 present the plotted results.

REFERENCES FOR APPENDIX B

1. C. H. MacGillavry and G. D. Rieck, ed., International Tables for X-ray Crystallography, Vol III, Kynock Press, Birmingham, England(1962).

2. D. T. Cromer and J. B. Mann, J. Chem. Phys. 47, 1892(1967).

3. J. L. Walsh, J. H. Ahlberg and E. N. Nilson, Journal of Math. & Mech. 11, 225(1962).

4. D. T. Cromer, Acta. Cryst. 18, Part 1, 18(1965).

5. S. C. Smelser, "An X-ray Diffraction Study of the Structure of Argon in the Dense Liquid Region," doctoral thesis, California Institute of Technology, Pasadena, California(1969).

6. A. Guinier, X-ray Diffraction in Crystals, Imperfect Crystals, and Amorphous Bodies, W. H. Freeman and Company, San Francisco(1963).

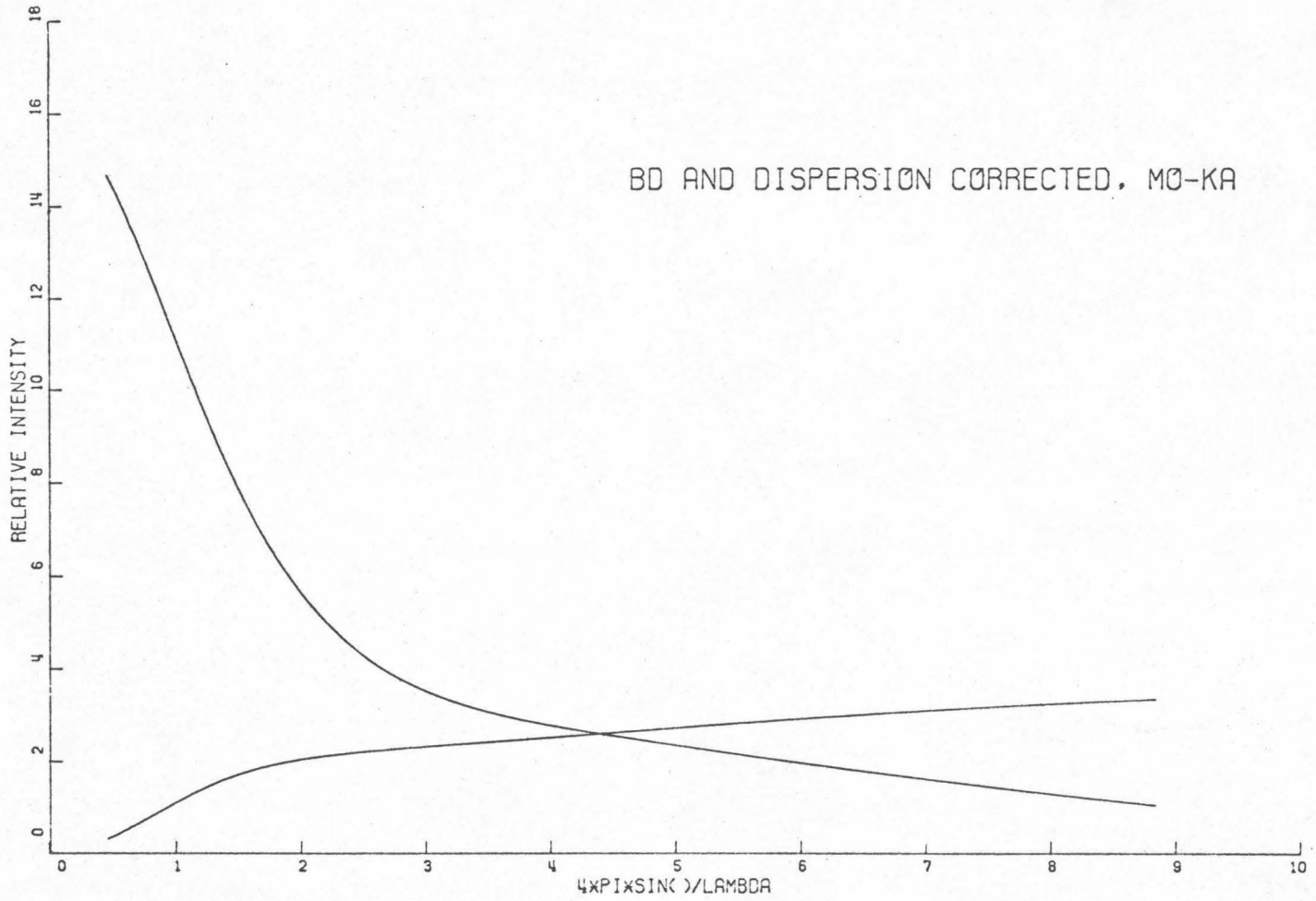


Figure B.1. Atomic Scattering Factors for Beryllium

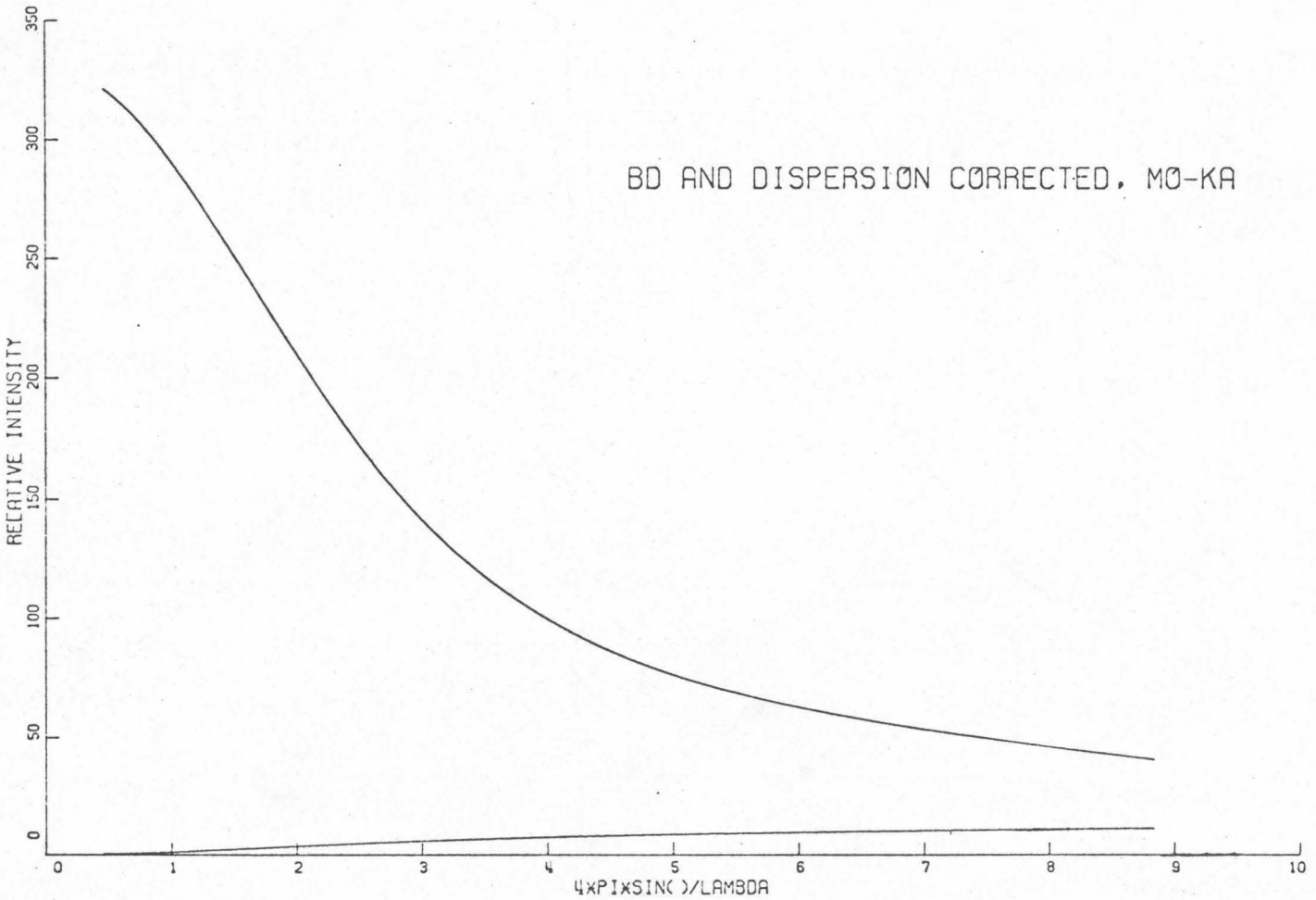


Figure B.2. Atomic Scattering Factors for Argon

TABLE B.1

INTERVAL IDENTIFICATION FOR SPLINE INTERPOLATION OF ATOMIC SCATTERING FACTORS

Interval	Range of $\sin(\theta)/\lambda$ for I_{inc}		
1	0.0	-	0.005
2	0.005	-	0.01
3	0.01	-	0.05
4	0.05	-	0.10
5	0.10	-	0.15
6	0.15	-	0.20
7	0.20	-	0.30
8	0.30	-	0.40
9	0.40	-	0.50
10	0.50	-	0.60
11	0.60	-	0.70
12	0.70	-	0.80
13	0.80	-	0.90
14	0.90	-	1.00

Interval	Range of $\sin(\theta)/\lambda$ for I_{coh}		
1	0.0	-	0.05
2	0.05	-	0.10
3	0.10	-	0.15
4	0.15	-	0.20
5	0.20	-	0.25
6	0.25	-	0.30
7	0.30	-	0.35
8	0.35	-	0.40
9	0.40	-	0.50
10	0.50	-	0.60
11	0.60	-	0.70
12	0.70	-	0.80
13	0.80	-	0.90
14	0.90	-	1.00
15	1.00	-	1.10
16	1.10	-	1.20
17	1.20	-	1.30

Interpolating Equation: for $x_{j-1} \leq x \leq x_j$

$$y(x) = C_{j1} + C_{j2}(x-x_{j-1}) + (x-x_{j-1})^2\left[C_{j3} + C_{j4}(x-x_j)\right]$$

TABLE B.2

CUBIC SPLINE INTERPOLATING COEFFICIENTS FOR BERYLLIUM SCATTERING FACTORS (MO-KA RADIATION)

COHERENT

J	C(1,J)	C(2,J)	C(3,J)	C(4,J)
1	1.600E 01	0.0	-9.062E 02	4.936E 03
2	1.373E 01	-7.828E 01	-1.655E 02	4.942E 03
3	9.406E 00	-8.248E 01	3.254E 02	-6.561E 01
4	6.096E 00	-5.010E 01	2.727E 02	-9.225E 02
5	4.272E 00	-2.514E 01	1.451E 02	-7.072E 02
6	3.378E 00	-1.240E 01	5.946E 01	-2.985E 02
7	2.907E 00	-7.198E 00	2.185E 01	-1.553E 02
8	2.602E 00	-5.401E 00	4.895E 00	-2.850E 01
9	2.344E 00	-4.983E 00	2.299E 00	2.534E 00
10	1.869E 00	-4.497E 00	2.346E 00	-4.602E 00
11	1.442E 00	-4.074E 00	2.799E 00	1.374E 01
12	1.063E 00	-3.377E 00	4.563E 00	-9.834E 00
13	7.709E-01	-2.563E 00	3.004E 00	4.073E 00
14	5.446E-01	-1.921E 00	3.188E 00	-6.300E 00
15	3.844E-01	-1.347E 00	1.962E 00	3.345E-01
16	2.694E-01	-9.508E-01	1.235E 00	-7.941E 00
17	1.866E-01	-7.833E-01	2.493E 00	2.847E 01

INCOHERENT

J	C(1,J)	C(2,J)	C(3,J)	C(4,J)
1	0.0	0.0	2.400E 02	2.700E 03
2	6.000E-03	2.468E 00	2.665E 02	-1.025E 02
3	2.500E-02	5.130E 00	1.973E 02	-1.704E 03
4	5.459E-01	1.819E 01	2.643E 00	-1.168E 03
5	1.462E 00	1.553E 01	-9.673E 01	3.478E 02
6	1.997E 00	6.731E 00	-4.464E 01	3.462E 02
7	2.222E 00	3.133E 00	-5.656E 00	4.366E 01
8	2.479E 00	2.438E 00	1.627E 00	-1.450E 01
9	2.739E 00	2.618E 00	-1.527E 00	-2.527E 00
10	2.985E 00	2.288E 00	-2.188E 00	-1.562E 00
11	3.192E 00	1.835E 00	-2.495E 00	5.387E-02
12	3.351E 00	1.336E 00	-2.390E 00	9.417E-01
13	3.460E 00	8.674E-01	-2.112E 00	9.043E-01
14	3.526E 00	4.541E-01	-1.432E 00	4.986E 00