

Program Version # 3.48 Filename=nsige14.tra

x	Eg	Atomic-Spacing		Debye Sound-Velocity		Num-Density	Mass-Density						
	eV	cm	K	cm/s	cm-3	g-cm-3							
1	0.000	1.0633	5.43100-08	645.3	5.8830+05	4.9940+22	2.3290+00						
	mc+	mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-	
	1.3990+00	1.400+00	2.9380+00	2.940+00	2.7400+01	2.740+01	0.0000+00	0.0000+00	9.1000-01	9.100-01	2.0000+00	2.000+00	
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT
1	-4.80	300	-3.4000+17	1.1300+01	-1.042	-216.2	-6.0430-04	4.1280-06	1.991	5.01000-05	1.01110+00	1.01110+00	0.001
1	-4.60	300	-4.1510+17	1.3530+01	-1.038	-211.1	-5.8890-04	4.6920-06	1.996	6.01090-05	1.01040+00	1.01040+00	0.001
1	-4.40	300	-5.0660+17	1.6160+01	-1.034	-205.9	-5.7360-04	5.3170-06	2.002	7.20230-05	1.00960+00	1.00960+00	0.002
1	-4.20	300	-6.1810+17	1.9270+01	-1.030	-200.6	-5.5830-04	6.0090-06	2.009	8.61800-05	1.00870+00	1.00880+00	0.002
1	-4.00	300	-7.5410+17	2.2940+01	-1.027	-195.1	-5.4330-04	6.7690-06	2.017	1.02970-04	1.00760+00	1.00770+00	0.002
1	-3.80	300	-9.1980+17	2.7230+01	-1.025	-189.4	-5.2830-04	7.6000-06	2.026	1.22840-04	1.00650+00	1.00660+00	0.002
1	-3.60	300	-1.1210+18	3.2260+01	-1.023	-183.7	-5.1340-04	8.5050-06	2.037	1.46340-04	1.00510+00	1.00530+00	0.003
1	-3.40	300	-1.3670+18	3.8140+01	-1.022	-177.9	-4.9870-04	9.4850-06	2.050	1.74050-04	1.00370+00	1.00380+00	0.003
1	-3.20	300	-1.6650+18	4.4970+01	-1.021	-172.1	-4.8410-04	1.0540-05	2.064	2.06670-04	1.00200+00	1.00220+00	0.003
1	-3.00	300	-2.0280+18	5.2910+01	-1.021	-166.2	-4.6950-04	1.1660-05	2.080	2.45010-04	1.00020+00	1.00050+00	0.003
1	-2.80	300	-2.4670+18	6.2080+01	-1.021	-160.3	-4.5510-04	1.2860-05	2.098	2.89960-04	9.98240-01	9.98530-01	0.004
1	-2.60	300	-3.0000+18	7.2660+01	-1.022	-154.4	-4.4080-04	1.4120-05	2.118	3.42550-04	9.96080-01	9.96430-01	0.004
1	-2.40	300	-3.6440+18	8.4830+01	-1.023	-148.6	-4.2650-04	1.5430-05	2.139	4.03950-04	9.93750-01	9.94150-01	0.005
1	-2.20	300	-4.4220+18	9.8790+01	-1.024	-142.8	-4.1240-04	1.6800-05	2.162	4.75470-04	9.91230-01	9.91710-01	0.005
1	-2.00	300	-5.3580+18	1.1470+02	-1.026	-137.1	-3.9830-04	1.8200-05	2.187	5.58570-04	9.88550-01	9.89100-01	0.006
1	-1.80	300	-6.4820+18	1.3290+02	-1.028	-131.6	-3.8440-04	1.9630-05	2.213	6.54850-04	9.85700-01	9.86350-01	0.006
1	-1.60	300	-7.8270+18	1.5350+02	-1.030	-126.1	-3.7050-04	2.1080-05	2.241	7.66100-04	9.82700-01	9.83470-01	0.006
1	-1.40	300	-9.4310+18	1.7690+02	-1.032	-120.8	-3.5670-04	2.2510-05	2.271	8.94210-04	9.79570-01	9.80460-01	0.007
1	-1.20	300	-1.1330+19	2.0330+02	-1.034	-115.7	-3.4310-04	2.3920-05	2.301	1.04120-03	9.76320-01	9.77360-01	0.007
1	-1.00	300	-1.3580+19	2.3290+02	-1.036	-110.8	-3.2960-04	2.5290-05	2.332	1.20920-03	9.72970-01	9.74180-01	0.008
1	-0.80	300	-1.6220+19	2.6600+02	-1.037	-106.2	-3.1620-04	2.6600-05	2.365	1.40030-03	9.69540-01	9.70940-01	0.008
1	-0.60	300	-1.9310+19	3.0290+02	-1.038	-101.7	-3.0310-04	2.7830-05	2.397	1.61650-03	9.66050-01	9.67670-01	0.009
1	-0.40	300	-2.2880+19	3.4380+02	-1.039	-97.5	-2.9020-04	2.8960-05	2.430	1.86000-03	9.62530-01	9.64390-01	0.009
1	-0.20	300	-2.7000+19	3.8890+02	-1.039	-93.5	-2.7760-04	2.9970-05	2.462	2.13180-03	9.58980-01	9.61110-01	0.009
1	+0.00	300	-3.1710+19	4.3820+02	-1.040	-89.7	-2.6530-04	3.0850-05	2.495	2.45360-03	9.55430-01	9.57860-01	0.010
1	+0.20	300	-3.7040+19	4.9180+02	-1.039	-86.1	-2.5350-04	3.1590-05	2.526	2.76610-03	9.51890-01	9.54660-01	0.010
1	+0.40	300	-4.3040+19	5.4970+02	-1.039	-82.8	-2.4200-04	3.2190-05	2.557	3.12960-03	9.48380-01	9.51510-01	0.010
1	+0.60	300	-4.9740+19	6.1180+02	-1.038	-79.7	-2.3100-04	3.2640-05	2.587	3.52400-03	9.44910-01	9.48430-01	0.010
1	+0.80	300	-5.7150+19	6.7800+02	-1.037	-76.8	-2.2050-04	3.2950-05	2.616	3.94890-03	9.41480-01	9.45420-01	0.010
1	+1.00	300	-6.5290+19	7.4790+02	-1.036	-74.1	-2.1040-04	3.3120-05	2.645	4.40330-03	9.38100-01	9.42500-01	0.011
1	+1.20	300	-7.4170+19	8.2140+02	-1.035	-71.5	-2.0090-04	3.3170-05	2.672	4.88580-03	9.34780-01	9.39660-01	0.011
1	+1.40	300	-8.3800+19	8.9830+02	-1.034	-69.2	-1.9200-04	3.3100-05	2.698	5.39480-03	9.31520-01	9.36920-01	0.011
1	+1.60	300	-9.4150+19	9.7820+02	-1.033	-67.0	-1.8350-04	3.2920-05	2.723	5.92940-03	9.28320-01	9.34250-01	0.011
1	+1.80	300	-1.0520+20	1.0610+03	-1.031	-64.9	-1.7550-04	3.2660-05	2.747	6.48720-03	9.25190-01	9.31680-01	0.011
1	+2.00	300	-1.1700+20	1.1460+03	-1.030	-63.0	-1.6800-04	3.2330-05	2.770	7.06690-03	9.22120-01	9.29190-01	0.010
1	+2.20	300	-1.2950+20	1.2340+03	-1.029	-61.2	-1.6090-04	3.1930-05	2.792	7.66690-03	9.19120-01	9.26790-01	0.010
1	+2.40	300	-1.4260+20	1.3230+03	-1.028	-59.5	-1.5430-04	3.1490-05	2.812	8.28570-03	9.16170-01	9.24460-01	0.010
1	+2.60	300	-1.5650+20	1.4150+03	-1.027	-58.0	-1.4800-04	3.1010-05	2.832	8.92210-03	9.13290-01	9.22210-01	0.010
1	+2.80	300	-1.7090+20	1.5080+03	-1.026	-56.5	-1.4220-04	3.0500-05	2.851	9.57480-03	9.10460-01	9.20030-01	0.010
1	+3.00	300	-1.8600+20	1.6030+03	-1.025	-55.2	-1.3670-04	2.9970-05	2.869	1.02410-02	9.07680-01	9.17920-01	0.010
1	+3.20	300	-2.0160+20	1.7000+03	-1.024	-53.9	-1.3160-04	2.9420-05	2.887	1.09250-02	9.04960-01	9.15890-01	0.010
1	+3.40	300	-2.1790+20	1.7980+03	-1.023	-52.7	-1.2670-04	2.8860-05	2.904	1.16240-02	9.02290-01	9.13910-01	0.009
1	+3.60	300	-2.3460+20	1.8970+03	-1.022	-51.6	-1.2220-04	2.8310-05	2.919	1.23280-02	8.99660-01	9.11990-01	0.009
1	+3.80	300	-2.5200+20	1.9980+03	-1.021	-50.5	-1.1790-04	2.7760-05	2.934	1.30480-02	8.97070-01	9.10120-01	0.009
1	+4.00	300	-2.6980+20	2.1000+03	-1.020	-49.5	-1.1380-04	2.7210-05	2.948	1.37790-02	8.94530-01	9.08310-01	0.009
1	+4.20	300	-2.8820+20	2.2020+03	-1.019	-48.6	-1.1000-04	2.6660-05	2.962	1.45210-02	8.92020-01	9.06540-01	0.009
1	+4.40	300	-3.0710+20	2.3060+03	-1.018	-47.7	-1.0640-04	2.6130-05	2.975	1.52720-02	8.89550-01	9.04820-01	0.009
1	+4.60	300	-3.2640+20	2.4110+03	-1.018	-46.9	-1.0300-04	2.5600-05	2.987	1.60330-02	8.87120-01	9.03150-01	0.009
1	+4.80	300	-3.4620+20	2.5170+03	-1.017	-46.1	-9.9840-05	2.5090-05	2.999	1.68030-02	8.84710-01	9.01510-01	0.008
1	+5.00	300	-3.6650+20	2.6240+03	-1.016	-45.4	-9.6800-05	2.4590-05	3.010	1.75820-02	8.82340-01	8.99920-01	0.008
1	+5.20	300	-3.8720+20	2.7320+03	-1.015	-44.7	-9.3930-05	2.4100-05	3.020	1.83680-02	8.79990-01	8.98360-01	0.008
1	+5.40	300	-4.0840+20	2.8400+03	-1.015	-44.1	-9.1200-05	2.3620-05	3.031	1.91630-02	8.77670-01	8.96830-01	0.008
1	+5.60	300	-4.2990+20	2.9500+03	-1.014	-43.4	-8.8610-05	2.3160-05	3.040	1.99650-02	8.75380-01	8.95340-01	0.008
1	+5.80	300	-4.5190+20	3.0600+03	-1.014	-42.8	-8.6150-05	2.2710-05	3.050	2.07740-02	8.73100-01	8.93880-01	0.008
1	+6.00	300	-4.7430+20	3.1710+03	-1.013	-42.3	-8.3810-05	2.2270-05	3.058	2.15910-02	8.70850-01	8.92440-01	0.007
1	+6.20	300	-4.9710+20	3.2830+03	-1.013	-41.7	-8.1580-05	2.1850-05	3.067	2.24140-02	8.68620-01	8.91030-01	0.007
1	+6.40	300	-5.2030+20	3.3960+03	-1.012	-41.2	-7.9460-05	2.1440-05	3.075	2.32430-02	8.66410-01	8.89650-01	0.007
1	+6.60	300	-5.4390+20	3.5090+03	-1.012	-40.7	-7.7440-05	2.1040-05	3.082	2.40780-02	8.64210-01	8.88290-01	0.007
1	+6.80	300	-5.6790+20	3.6230+03	-1.011	-40.3	-7.5510-05	2.0660-05	3.090	2.49190-02	8.62040-01	8.86950-01	0.007
1	+7.00	300	-5.9220+20	3.7380+03	-1.011	-39.8	-7.3660-05	2.0280-05	3.097	2.57660-02	8.59870-01	8.85640-01	0.007
1	+7.20	300	-6.1690+20	3.8530+03	-1.010	-39.4	-7.1900-05	1.9920-05	3.103	2.66180-02	8.57730-01	8.84340-01	0.007
1	+7.40	300	-6.4190+20	3.9690+03	-1.010	-39.0	-7.0210-05	1.9570-05	3.109	2.74750-02	8.55590-01	8.83070-01	0.007
1	+7.60	300	-6.6730+20	4.0860+03	-1.009	-38.6	-6.8600-05	1.9230-05	3.116	2.83380-02	8.53470-01	8.81810-01	0.007
1	+7.80	300	-6.9310+20	4.2030+03	-1.009	-38.2	-6.7050-05	1.8900-05	3.121	2.92050-02	8.51360-01	8.80570-01	0.006
1	+8.00	300	-7.1920+20	4.3210+03	-1.009	-37.8	-6.5570-05	1.8580-05	3.127	3.00780-02	8.49270-01	8.79350-01	0.006

x	Eg eV	Atomic-Spacing cm	Debye K	Sound-Velocity cm/s	Num-Density cm-3	Mass-Density g-cm-3								
1	0.000	1.0058	5.4310D-08	645.3	5.883D+05	4.994D+22	2.329D+00							
mc+	mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-			
1.399D+00	1.400D+00	2.938D+00	2.94D+00	2.740D+01	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00			
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT	
1	-5.00	550	-6.915D+17	1.012D+01	-1.074	-98.1	-6.130D-04	3.802D-06	1.989	8.2123D-05	6.1249D-01	6.1258D-01	0.003	
1	-4.80	550	-8.441D+17	1.222D+01	-1.069	-96.6	-5.969D-04	4.354D-06	1.987	9.9092D-05	6.1225D-01	6.1235D-01	0.004	
1	-4.60	550	-1.030D+18	1.474D+01	-1.063	-95.0	-5.809D-04	4.974D-06	1.986	1.1951D-04	6.1197D-01	6.1209D-01	0.004	
1	-4.40	550	-1.257D+18	1.776D+01	-1.058	-93.3	-5.650D-04	5.668D-06	1.987	1.4402D-04	6.1165D-01	6.1179D-01	0.005	
1	-4.20	550	-1.534D+18	2.137D+01	-1.053	-91.5	-5.491D-04	6.443D-06	1.989	1.7342D-04	6.1123D-01	6.1140D-01	0.006	
1	-4.00	550	-1.872D+18	2.566D+01	-1.048	-89.7	-5.334D-04	7.303D-06	1.992	2.0861D-04	6.1081D-01	6.1102D-01	0.007	
1	-3.80	550	-2.283D+18	3.078D+01	-1.044	-87.8	-5.178D-04	8.254D-06	1.995	2.5067D-04	6.1035D-01	6.1061D-01	0.007	
1	-3.60	550	-2.784D+18	3.685D+01	-1.039	-85.9	-5.024D-04	9.300D-06	2.000	3.0085D-04	6.0980D-01	6.1010D-01	0.008	
1	-3.40	550	-3.393D+18	4.404D+01	-1.035	-83.9	-4.870D-04	1.044D-05	2.006	3.6063D-04	6.0916D-01	6.0953D-01	0.009	
1	-3.20	550	-4.134D+18	5.253D+01	-1.032	-81.8	-4.717D-04	1.169D-05	2.014	4.3170D-04	6.0845D-01	6.0888D-01	0.011	
1	-3.00	550	-5.034D+18	6.253D+01	-1.028	-79.8	-4.566D-04	1.304D-05	2.022	5.1605D-04	6.0765D-01	6.0816D-01	0.012	
1	-2.80	550	-6.125D+18	7.427D+01	-1.026	-77.6	-4.416D-04	1.449D-05	2.032	6.1595D-04	6.0675D-01	6.0736D-01	0.013	
1	-2.60	550	-7.447D+18	8.802D+01	-1.023	-75.5	-4.268D-04	1.603D-05	2.043	7.3399D-04	6.0575D-01	6.0648D-01	0.015	
1	-2.40	550	-9.046D+18	1.041D+02	-1.021	-73.3	-4.120D-04	1.767D-05	2.056	8.7325D-04	6.0464D-01	6.0552D-01	0.016	
1	-2.20	550	-1.098D+19	1.227D+02	-1.019	-71.2	-3.975D-04	1.939D-05	2.070	1.0371D-03	6.0343D-01	6.0446D-01	0.018	
1	-2.00	550	-1.330D+19	1.444D+02	-1.018	-69.0	-3.830D-04	2.118D-05	2.086	1.2294D-03	6.0210D-01	6.0333D-01	0.019	
1	-1.80	550	-1.609D+19	1.694D+02	-1.017	-66.8	-3.687D-04	2.303D-05	2.104	1.4545D-03	6.0066D-01	6.0211D-01	0.021	
1	-1.60	550	-1.943D+19	1.982D+02	-1.016	-64.7	-3.546D-04	2.491D-05	2.123	1.7171D-03	5.9911D-01	6.0083D-01	0.023	
1	-1.40	550	-2.341D+19	2.311D+02	-1.016	-62.6	-3.406D-04	2.681D-05	2.144	2.0224D-03	5.9746D-01	5.9948D-01	0.025	
1	-1.20	550	-2.814D+19	2.688D+02	-1.016	-60.6	-3.268D-04	2.871D-05	2.166	2.3760D-03	5.9571D-01	5.9809D-01	0.026	
1	-1.00	550	-3.372D+19	3.115D+02	-1.015	-58.5	-3.133D-04	3.057D-05	2.190	2.7836D-03	5.9388D-01	5.9666D-01	0.028	
1	-0.80	550	-4.028D+19	3.597D+02	-1.015	-56.6	-2.999D-04	3.236D-05	2.215	3.2512D-03	5.9197D-01	5.9522D-01	0.030	
1	-0.60	550	-4.793D+19	4.139D+02	-1.015	-54.7	-2.869D-04	3.407D-05	2.241	3.7849D-03	5.8999D-01	5.9377D-01	0.032	
1	-0.40	550	-5.681D+19	4.743D+02	-1.015	-52.9	-2.742D-04	3.566D-05	2.268	4.3901D-03	5.8796D-01	5.9235D-01	0.033	
1	-0.20	550	-6.703D+19	5.413D+02	-1.015	-51.2	-2.618D-04	3.710D-05	2.296	5.0722D-03	5.8590D-01	5.9097D-01	0.035	
1	+0.00	550	-7.871D+19	6.151D+02	-1.015	-49.5	-2.498D-04	3.838D-05	2.325	5.8353D-03	5.8382D-01	5.8965D-01	0.036	
1	+0.20	550	-9.195D+19	6.957D+02	-1.015	-47.9	-2.382D-04	3.947D-05	2.354	6.6827D-03	5.8173D-01	5.8841D-01	0.037	
1	+0.40	550	-1.068D+20	7.831D+02	-1.014	-46.4	-2.271D-04	4.038D-05	2.383	7.6167D-03	5.7963D-01	5.8725D-01	0.038	
1	+0.60	550	-1.235D+20	8.772D+02	-1.014	-45.0	-2.164D-04	4.108D-05	2.413	8.6391D-03	5.7756D-01	5.8620D-01	0.039	
1	+0.80	550	-1.419D+20	9.778D+02	-1.014	-43.6	-2.063D-04	4.160D-05	2.443	9.7475D-03	5.7550D-01	5.8525D-01	0.039	
1	+1.00	550	-1.621D+20	1.085D+03	-1.013	-42.3	-1.966D-04	4.192D-05	2.472	1.0941D-02	5.7347D-01	5.8441D-01	0.039	
1	+1.20	550	-1.841D+20	1.197D+03	-1.013	-41.1	-1.875D-04	4.207D-05	2.501	1.2219D-02	5.7148D-01	5.8370D-01	0.040	
1	+1.40	550	-2.080D+20	1.315D+03	-1.012	-40.0	-1.788D-04	4.206D-05	2.529	1.3578D-02	5.6952D-01	5.8310D-01	0.040	
1	+1.60	550	-2.337D+20	1.438D+03	-1.012	-38.9	-1.707D-04	4.190D-05	2.557	1.5012D-02	5.6760D-01	5.8262D-01	0.040	
1	+1.80	550	-2.612D+20	1.566D+03	-1.012	-37.9	-1.630D-04	4.162D-05	2.585	1.6521D-02	5.6573D-01	5.8225D-01	0.039	
1	+2.00	550	-2.905D+20	1.698D+03	-1.011	-36.9	-1.558D-04	4.123D-05	2.612	1.8099D-02	5.6389D-01	5.8199D-01	0.039	
1	+2.20	550	-3.214D+20	1.834D+03	-1.011	-36.0	-1.491D-04	4.075D-05	2.637	1.9740D-02	5.6210D-01	5.8184D-01	0.039	
1	+2.40	550	-3.541D+20	1.973D+03	-1.010	-35.1	-1.427D-04	4.020D-05	2.663	2.1443D-02	5.6034D-01	5.8179D-01	0.038	
1	+2.60	550	-3.884D+20	2.116D+03	-1.010	-34.3	-1.368D-04	3.959D-05	2.687	2.3202D-02	5.5863D-01	5.8183D-01	0.037	
1	+2.80	550	-4.242D+20	2.261D+03	-1.009	-33.6	-1.312D-04	3.893D-05	2.711	2.5015D-02	5.5695D-01	5.8196D-01	0.037	
1	+3.00	550	-4.616D+20	2.409D+03	-1.009	-32.9	-1.260D-04	3.824D-05	2.733	2.6874D-02	5.5530D-01	5.8218D-01	0.036	
1	+3.20	550	-5.005D+20	2.560D+03	-1.009	-32.2	-1.211D-04	3.752D-05	2.755	2.8785D-02	5.5369D-01	5.8247D-01	0.035	
1	+3.40	550	-5.408D+20	2.713D+03	-1.008	-31.6	-1.165D-04	3.679D-05	2.776	3.0737D-02	5.5211D-01	5.8284D-01	0.035	
1	+3.60	550	-5.825D+20	2.868D+03	-1.008	-31.0	-1.121D-04	3.605D-05	2.797	3.2729D-02	5.5055D-01	5.8328D-01	0.034	
1	+3.80	550	-6.255D+20	3.025D+03	-1.008	-30.4	-1.081D-04	3.531D-05	2.816	3.4760D-02	5.4902D-01	5.8378D-01	0.033	
1	+4.00	550	-6.698D+20	3.183D+03	-1.007	-29.9	-1.042D-04	3.457D-05	2.835	3.6826D-02	5.4751D-01	5.8434D-01	0.033	
1	+4.20	550	-7.154D+20	3.344D+03	-1.007	-29.4	-1.006D-04	3.384D-05	2.852	3.8925D-02	5.4602D-01	5.8495D-01	0.032	
1	+4.40	550	-7.622D+20	3.506D+03	-1.007	-28.9	-9.720D-05	3.312D-05	2.869	4.1055D-02	5.4456D-01	5.8561D-01	0.031	
1	+4.60	550	-8.103D+20	3.669D+03	-1.006	-28.4	-9.398D-05	3.241D-05	2.886	4.3215D-02	5.4311D-01	5.8632D-01	0.030	
1	+4.80	550	-8.594D+20	3.834D+03	-1.006	-28.0	-9.094D-05	3.171D-05	2.901	4.5402D-02	5.4167D-01	5.8708D-01	0.030	
1	+5.00	550	-9.098D+20	4.000D+03	-1.006	-27.6	-8.807D-05	3.103D-05	2.916	4.7615D-02	5.4026D-01	5.8787D-01	0.029	
1	+5.20	550	-9.612D+20	4.168D+03	-1.005	-27.2	-8.535D-05	3.036D-05	2.930	4.9842D-02	5.3885D-01	5.8869D-01	0.028	
1	+5.40	550	-1.014D+21	4.337D+03	-1.005	-26.8	-8.277D-05	2.971D-05	2.944	5.2112D-02	5.3746D-01	5.8957D-01	0.028	
1	+5.60	550	-1.067D+21	4.507D+03	-1.005	-26.5	-8.033D-05	2.908D-05	2.957	5.4394D-02	5.3608D-01	5.9047D-01	0.027	
1	+5.80	550	-1.122D+21	4.678D+03	-1.005	-26.1	-7.802D-05	2.847D-05	2.969	5.6677D-02	5.3471D-01	5.9138D-01	0.026	
1	+6.00	550	-1.177D+21	4.850D+03	-1.004	-25.8	-7.581D-05	2.787D-05	2.982	5.9018D-02	5.3334D-01	5.9236D-01	0.026	
1	+6.20	550	-1.234D+21	5.023D+03	-1.004	-25.5	-7.371D-05	2.729D-05	2.993	6.1357D-02	5.3199D-01	5.9335D-01	0.025	
1	+6.40	550	-1.292D+21	5.197D+03	-1.004	-25.2	-7.172D-05	2.673D-05	3.004	6.3714D-02	5.3064D-01	5.9436D-01	0.025	
1	+6.60	550	-1.350D+21	5.372D+03	-1.004	-24.9	-6.982D-05	2.619D-05	3.014	6.6087D-02	5.2930D-01	5.9539D-01	0.024	
1	+6.80	550	-1.410D+21	5.548D+03	-1.004	-24.7	-6.801D-05	2.566D-05	3.024	6.8475D-02	5.2797D-01	5.9644D-01	0.024	
1	+7.00	550	-1.470D+21	5.725D+03	-1.003	-24.4	-6.628D-05	2.515D-05	3.034	7.0878D-02	5.2664D-01	5.9752D-01	0.023	
1	+7.20	550	-1.531D+21	5.902D+03	-1.003	-24.1	-6.463D-05	2.465D-05	3.043	7.3295D-02	5.2531D-01	5.9861D-01	0.023	
1	+7.40	550	-1.593D+21	6.081D+03	-1.003	-23.9	-6.305D-05	2.418D-05	3.051	7.5725D-02	5.2400D-01	5.9972D-01	0.022	
1	+7.60	550	-1.657D+21	6.260D+03	-1.003	-23.7	-6.154D-05	2.371D-05	3.059	7.8168D-02	5.2268D-01	6.0085D-01	0.022	
1	+7.80	550	-1.720D+21	6.440D+03	-1.003	-23.4	-6.010D-05	2.326D-05	3.067	8.0622D-02	5.2137D-01	6.0199D-01	0.021	
1	+8.00	550	-1.785D+21	6.621D+03	-1.003	-23.2	-5.872D-05	2.283D-05	3.075	8.3088D-02	5.2006D-01	6.0315D-01	0.021	

x	Eg eV	Atomic-Spacing cm	Debye K	Sound-Velocity cm/s	Num-Density cm-3	Mass-Density g-cm-3							
1	0.000	0.9483	5.4310D-08	645.3	5.883D+05	4.994D+22	2.329D+00						
mc+	mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-		
1.399D+00	1.40D+00	2.938D+00	2.94D+00	2.740D+01	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00		
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT
1	-5.00	800	-1.185D+18	1.065D+01	-0.998	-56.0	-5.757D-04	3.529D-06	8.979	5.6767D-04	4.3177D-01	4.3234D-01	0.007
1	-4.80	800	-1.458D+18	1.280D+01	-1.023	-56.1	-5.706D-04	4.168D-06	6.727	5.1124D-04	4.3155D-01	4.3206D-01	0.008
1	-4.60	800	-1.789D+18	1.542D+01	-1.039	-55.9	-5.619D-04	4.868D-06	5.181	4.7414D-04	4.3140D-01	4.3187D-01	0.009
1	-4.40	800	-2.190D+18	1.858D+01	-1.048	-55.5	-5.508D-04	5.636D-06	4.130	4.5543D-04	4.3122D-01	4.3168D-01	0.010
1	-4.20	800	-2.679D+18	2.238D+01	-1.052	-54.9	-5.382D-04	6.482D-06	3.421	4.5450D-04	4.3101D-01	4.3147D-01	0.012
1	-4.00	800	-3.274D+18	2.696D+01	-1.053	-54.1	-5.245D-04	7.415D-06	2.944	4.7116D-04	4.3077D-01	4.3124D-01	0.014
1	-3.80	800	-3.997D+18	3.244D+01	-1.052	-53.3	-5.101D-04	8.440D-06	2.626	5.0571D-04	4.3050D-01	4.3100D-01	0.016
1	-3.60	800	-4.877D+18	3.900D+01	-1.050	-52.4	-4.953D-04	9.566D-06	2.415	5.5899D-04	4.3018D-01	4.3074D-01	0.018
1	-3.40	800	-5.947D+18	4.682D+01	-1.047	-51.4	-4.803D-04	1.080D-05	2.275	6.3239D-04	4.2982D-01	4.3045D-01	0.020
1	-3.20	800	-7.247D+18	5.612D+01	-1.043	-50.4	-4.651D-04	1.214D-05	2.185	7.2789D-04	4.2940D-01	4.3013D-01	0.023
1	-3.00	800	-8.826D+18	6.717D+01	-1.040	-49.4	-4.500D-04	1.360D-05	2.127	8.4810D-04	4.2893D-01	4.2978D-01	0.025
1	-2.80	800	-1.074D+19	8.023D+01	-1.036	-48.3	-4.348D-04	1.517D-05	2.092	9.9628D-04	4.2841D-01	4.2940D-01	0.028
1	-2.60	800	-1.306D+19	9.564D+01	-1.033	-47.2	-4.197D-04	1.685D-05	2.072	1.1764D-03	4.2781D-01	4.2899D-01	0.031
1	-2.40	800	-1.587D+19	1.138D+02	-1.030	-46.1	-4.048D-04	1.864D-05	2.063	1.3933D-03	4.2714D-01	4.2854D-01	0.035
1	-2.20	800	-1.925D+19	1.350D+02	-1.027	-44.9	-3.899D-04	2.053D-05	2.061	1.6523D-03	4.2640D-01	4.2806D-01	0.038
1	-2.00	800	-2.333D+19	1.599D+02	-1.024	-43.8	-3.752D-04	2.251D-05	2.065	1.9598D-03	4.2559D-01	4.2755D-01	0.042
1	-1.80	800	-2.823D+19	1.887D+02	-1.022	-42.6	-3.607D-04	2.455D-05	2.073	2.3231D-03	4.2469D-01	4.2702D-01	0.046
1	-1.60	800	-3.408D+19	2.222D+02	-1.019	-41.5	-3.463D-04	2.665D-05	2.085	2.7504D-03	4.2372D-01	4.2647D-01	0.050
1	-1.40	800	-4.107D+19	2.608D+02	-1.018	-40.3	-3.321D-04	2.877D-05	2.099	3.2506D-03	4.2266D-01	4.2592D-01	0.054
1	-1.20	800	-4.936D+19	3.052D+02	-1.016	-39.2	-3.182D-04	3.090D-05	2.116	3.8334D-03	4.2154D-01	4.2537D-01	0.058
1	-1.00	800	-5.915D+19	3.558D+02	-1.015	-38.1	-3.045D-04	3.299D-05	2.135	4.5090D-03	4.2034D-01	4.2485D-01	0.062
1	-0.80	800	-7.065D+19	4.133D+02	-1.013	-37.0	-2.911D-04	3.502D-05	2.156	5.2883D-03	4.1908D-01	4.2437D-01	0.066
1	-0.60	800	-8.408D+19	4.781D+02	-1.012	-35.9	-2.780D-04	3.695D-05	2.178	6.1815D-03	4.1777D-01	4.2395D-01	0.070
1	-0.40	800	-9.965D+19	5.509D+02	-1.011	-34.9	-2.652D-04	3.875D-05	2.201	7.1991D-03	4.1642D-01	4.2362D-01	0.073
1	-0.20	800	-1.176D+20	6.318D+02	-1.011	-33.9	-2.528D-04	4.038D-05	2.227	8.3507D-03	4.1502D-01	4.2338D-01	0.076
1	+0.00	800	-1.381D+20	7.212D+02	-1.010	-32.9	-2.408D-04	4.183D-05	2.253	9.6446D-03	4.1361D-01	4.2325D-01	0.079
1	+0.20	800	-1.613D+20	8.192D+02	-1.009	-32.0	-2.293D-04	4.308D-05	2.280	1.1088D-02	4.1218D-01	4.2327D-01	0.081
1	+0.40	800	-1.874D+20	9.258D+02	-1.008	-31.1	-2.183D-04	4.410D-05	2.308	1.2684D-02	4.1074D-01	4.2343D-01	0.083
1	+0.60	800	-2.166D+20	1.041D+03	-1.008	-30.2	-2.077D-04	4.490D-05	2.337	1.4438D-02	4.0931D-01	4.2375D-01	0.085
1	+0.80	800	-2.489D+20	1.164D+03	-1.007	-29.4	-1.976D-04	4.547D-05	2.366	1.6350D-02	4.0789D-01	4.2424D-01	0.086
1	+1.00	800	-2.843D+20	1.295D+03	-1.007	-28.6	-1.881D-04	4.583D-05	2.395	1.8416D-02	4.0649D-01	4.2490D-01	0.086
1	+1.20	800	-3.230D+20	1.434D+03	-1.006	-27.9	-1.791D-04	4.598D-05	2.424	2.0633D-02	4.0511D-01	4.2574D-01	0.086
1	+1.40	800	-3.649D+20	1.579D+03	-1.006	-27.2	-1.706D-04	4.595D-05	2.454	2.3000D-02	4.0375D-01	4.2675D-01	0.086
1	+1.60	800	-4.100D+20	1.731D+03	-1.006	-26.5	-1.626D-04	4.575D-05	2.483	2.5510D-02	4.0242D-01	4.2793D-01	0.086
1	+1.80	800	-4.582D+20	1.889D+03	-1.005	-25.9	-1.551D-04	4.540D-05	2.511	2.8155D-02	4.0112D-01	4.2927D-01	0.085
1	+2.00	800	-5.095D+20	2.052D+03	-1.005	-25.3	-1.480D-04	4.493D-05	2.540	3.0930D-02	3.9984D-01	4.3077D-01	0.083
1	+2.20	800	-5.639D+20	2.219D+03	-1.005	-24.7	-1.414D-04	4.436D-05	2.567	3.3827D-02	3.9860D-01	4.3242D-01	0.082
1	+2.40	800	-6.212D+20	2.392D+03	-1.004	-24.1	-1.352D-04	4.370D-05	2.595	3.6838D-02	3.9738D-01	4.3422D-01	0.081
1	+2.60	800	-6.813D+20	2.568D+03	-1.004	-23.6	-1.294D-04	4.297D-05	2.621	3.9957D-02	3.9619D-01	4.3614D-01	0.079
1	+2.80	800	-7.442D+20	2.748D+03	-1.004	-23.1	-1.239D-04	4.220D-05	2.647	4.3177D-02	3.9502D-01	4.3819D-01	0.077
1	+3.00	800	-8.098D+20	2.931D+03	-1.004	-22.7	-1.188D-04	4.138D-05	2.672	4.6490D-02	3.9387D-01	4.4036D-01	0.075
1	+3.20	800	-8.780D+20	3.117D+03	-1.003	-22.2	-1.140D-04	4.054D-05	2.696	4.9891D-02	3.9274D-01	4.4263D-01	0.073
1	+3.40	800	-9.487D+20	3.307D+03	-1.003	-21.8	-1.095D-04	3.968D-05	2.719	5.3374D-02	3.9163D-01	4.4501D-01	0.071
1	+3.60	800	-1.022D+21	3.498D+03	-1.003	-21.4	-1.053D-04	3.881D-05	2.742	5.6933D-02	3.9054D-01	4.4747D-01	0.069
1	+3.80	800	-1.097D+21	3.692D+03	-1.003	-21.1	-1.014D-04	3.794D-05	2.763	6.0563D-02	3.8947D-01	4.5003D-01	0.067
1	+4.00	800	-1.175D+21	3.888D+03	-1.003	-20.7	-9.766D-05	3.708D-05	2.784	6.4259D-02	3.8840D-01	4.5266D-01	0.066
1	+4.20	800	-1.255D+21	4.086D+03	-1.003	-20.4	-9.416D-05	3.622D-05	2.804	6.8016D-02	3.8735D-01	4.5537D-01	0.064
1	+4.40	800	-1.337D+21	4.286D+03	-1.002	-20.1	-9.086D-05	3.538D-05	2.823	7.1830D-02	3.8631D-01	4.5814D-01	0.062
1	+4.60	800	-1.421D+21	4.487D+03	-1.002	-19.7	-8.776D-05	3.456D-05	2.842	7.5698D-02	3.8528D-01	4.6098D-01	0.060
1	+4.80	800	-1.508D+21	4.690D+03	-1.002	-19.5	-8.482D-05	3.375D-05	2.859	7.9615D-02	3.8426D-01	4.6388D-01	0.058
1	+5.00	800	-1.596D+21	4.895D+03	-1.002	-19.2	-8.205D-05	3.296D-05	2.876	8.3578D-02	3.8325D-01	4.6683D-01	0.056
1	+5.20	800	-1.686D+21	5.101D+03	-1.002	-18.9	-7.944D-05	3.219D-05	2.893	8.7584D-02	3.8224D-01	4.6982D-01	0.055
1	+5.40	800	-1.778D+21	5.308D+03	-1.002	-18.7	-7.696D-05	3.144D-05	2.908	9.1629D-02	3.8124D-01	4.7287D-01	0.053
1	+5.60	800	-1.872D+21	5.516D+03	-1.002	-18.4	-7.462D-05	3.071D-05	2.923	9.5712D-02	3.8024D-01	4.7595D-01	0.052
1	+5.80	800	-1.968D+21	5.726D+03	-1.001	-18.2	-7.239D-05	3.001D-05	2.937	9.9830D-02	3.7924D-01	4.7907D-01	0.050
1	+6.00	800	-2.066D+21	5.937D+03	-1.001	-18.0	-7.028D-05	2.932D-05	2.950	1.0398D-01	3.7825D-01	4.8223D-01	0.049
1	+6.20	800	-2.165D+21	6.148D+03	-1.001	-17.8	-6.828D-05	2.866D-05	2.963	1.0816D-01	3.7727D-01	4.8543D-01	0.047
1	+6.40	800	-2.266D+21	6.361D+03	-1.001	-17.5	-6.637D-05	2.802D-05	2.976	1.1237D-01	3.7628D-01	4.8865D-01	0.046
1	+6.60	800	-2.369D+21	6.575D+03	-1.001	-17.3	-6.456D-05	2.740D-05	2.987	1.1660D-01	3.7530D-01	4.9190D-01	0.045
1	+6.80	800	-2.473D+21	6.789D+03	-1.001	-17.2	-6.283D-05	2.681D-05	2.999	1.2086D-01	3.7432D-01	4.9518D-01	0.043
1	+7.00	800	-2.579D+21	7.005D+03	-1.001	-17.0	-6.119D-05	2.623D-05	3.009	1.2514D-01	3.7334D-01	4.9848D-01	0.042
1	+7.20	800	-2.686D+21	7.221D+03	-1.001	-16.8	-5.962D-05	2.567D-05	3.020	1.2945D-01	3.7236D-01	5.0180D-01	0.041
1	+7.40	800	-2.795D+21	7.438D+03	-1.001	-16.6	-5.812D-05	2.513D-05	3.029	1.3377D-01	3.7138D-01	5.0515D-01	0.040
1	+7.60	800	-2.906D+21	7.656D+03	-1.001	-16.5	-5.669D-05	2.461D-05	3.039	1.3811D-01	3.7040D-01	5.0851D-01	0.039
1	+7.80	800	-3.018D+21	7.875D+03	-1.001	-16.3	-5.532D-05	2.410D-05	3.048	1.4247D-01	3.6942D-01	5.1189D-01	0.038
1	+8.00	800	-3.132D+21	8.094D+03	-1.001	-16.1	-5.401D-05	2.361D-05	3.056	1.4685D-01	3.6844D-01	5.1529D-01	0.037

x	Eg eV	Atomic-Spacing cm	Debye K	Sound-Velocity cm/s	Num-Density cm ⁻³	Mass-Density g-cm ⁻³							
mc+	mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-		
1	0.000	0.8908	5.4310D-08	645.3	5.883D+05	4.994D+22	2.329D+00						
1.399D+00	1.40D+00	2.938D+00	2.94D+00	2.740D+01	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00		
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT
1	-5.00	1050	+2.973D+17	2.361D+01	+0.007	+3.2	+3.859D-05	3.517D-08	%49.923	9.1844D-03	3.3212D-01	3.4130D-01	0.000
1	-4.80	1050	-4.890D+17	2.361D+01	-0.017	-5.3	-6.326D-05	9.445D-08	%49.559	9.1151D-03	3.3204D-01	3.4116D-01	0.000
1	-4.60	1050	-1.295D+18	2.423D+01	-0.110	-12.9	-1.605D-04	6.245D-07	%45.842	8.6546D-03	3.3196D-01	3.4061D-01	0.002
1	-4.40	1050	-2.151D+18	2.584D+01	-0.258	-19.3	-2.453D-04	1.555D-06	%39.532	7.9604D-03	3.3177D-01	3.3973D-01	0.005
1	-4.20	1050	-3.093D+18	2.846D+01	-0.424	-24.3	-3.130D-04	2.787D-06	%32.159	7.1308D-03	3.3164D-01	3.3877D-01	0.009
1	-4.00	1050	-4.156D+18	3.213D+01	-0.580	-28.0	-3.625D-04	4.224D-06	%25.027	6.2663D-03	3.3148D-01	3.3775D-01	0.013
1	-3.80	1050	-5.382D+18	3.698D+01	-0.712	-30.5	-3.957D-04	5.790D-06	%18.904	5.4463D-03	3.3130D-01	3.3675D-01	0.018
1	-3.60	1050	-6.819D+18	4.312D+01	-0.813	-32.1	-4.154D-04	7.440D-06	%14.051	4.7213D-03	3.3109D-01	3.3581D-01	0.023
1	-3.40	1050	-8.521D+18	5.076D+01	-0.887	-33.0	-4.246D-04	9.152D-06	%10.412	4.1176D-03	3.3085D-01	3.3497D-01	0.029
1	-3.20	1050	-1.055D+19	6.009D+01	-0.938	-33.4	-4.263D-04	1.092D-05	7.784	3.6446D-03	3.3058D-01	3.3422D-01	0.034
1	-3.00	1050	-1.299D+19	7.140D+01	-0.973	-33.4	-4.225D-04	1.275D-05	5.936	3.3019D-03	3.3027D-01	3.3357D-01	0.040
1	-2.80	1050	-1.592D+19	8.497D+01	-0.995	-33.1	-4.150D-04	1.464D-05	4.660	3.0850D-03	3.2991D-01	3.3300D-01	0.046
1	-2.60	1050	-1.945D+19	1.012D+02	-1.008	-32.7	-4.051D-04	1.660D-05	3.791	2.9885D-03	3.2951D-01	3.3250D-01	0.052
1	-2.40	1050	-2.370D+19	1.204D+02	-1.016	-32.2	-3.934D-04	1.864D-05	3.206	3.0080D-03	3.2905D-01	3.3206D-01	0.059
1	-2.20	1050	-2.882D+19	1.431D+02	-1.020	-31.6	-3.808D-04	2.075D-05	2.816	3.1411D-03	3.2855D-01	3.3169D-01	0.066
1	-2.00	1050	-3.498D+19	1.699D+02	-1.022	-31.0	-3.674D-04	2.293D-05	2.560	3.3878D-03	3.2798D-01	3.3137D-01	0.073
1	-1.80	1050	-4.236D+19	2.012D+02	-1.022	-30.3	-3.537D-04	2.517D-05	2.393	3.7508D-03	3.2736D-01	3.3111D-01	0.080
1	-1.60	1050	-5.118D+19	2.376D+02	-1.022	-29.6	-3.399D-04	2.745D-05	2.288	4.2353D-03	3.2668D-01	3.3091D-01	0.087
1	-1.40	1050	-6.170D+19	2.799D+02	-1.020	-28.9	-3.260D-04	2.974D-05	2.224	4.8489D-03	3.2594D-01	3.3079D-01	0.094
1	-1.20	1050	-7.417D+19	3.286D+02	-1.019	-28.2	-3.122D-04	3.203D-05	2.187	5.6009D-03	3.2514D-01	3.3074D-01	0.102
1	-1.00	1050	-8.890D+19	3.845D+02	-1.017	-27.5	-2.986D-04	3.428D-05	2.171	6.5032D-03	3.2428D-01	3.3078D-01	0.109
1	-0.80	1050	-1.062D+20	4.482D+02	-1.016	-26.8	-2.852D-04	3.645D-05	2.167	7.5689D-03	3.2337D-01	3.3094D-01	0.116
1	-0.60	1050	-1.264D+20	5.203D+02	-1.014	-26.1	-2.721D-04	3.851D-05	2.173	8.8097D-03	3.2242D-01	3.3123D-01	0.122
1	-0.40	1050	-1.498D+20	6.014D+02	-1.013	-25.4	-2.593D-04	4.043D-05	2.185	1.0240D-02	3.2143D-01	3.3167D-01	0.128
1	-0.20	1050	-1.768D+20	6.919D+02	-1.012	-24.7	-2.469D-04	4.217D-05	2.202	1.1873D-02	3.2040D-01	3.3228D-01	0.133
1	+0.00	1050	-2.076D+20	7.921D+02	-1.011	-24.1	-2.349D-04	4.371D-05	2.223	1.3720D-02	3.1936D-01	3.3308D-01	0.138
1	+0.20	1050	-2.425D+20	9.022D+02	-1.010	-23.4	-2.234D-04	4.502D-05	2.246	1.5790D-02	3.1830D-01	3.3409D-01	0.141
1	+0.40	1050	-2.818D+20	1.022D+03	-1.009	-22.8	-2.124D-04	4.609D-05	2.272	1.8091D-02	3.1723D-01	3.3520D-01	0.144
1	+0.60	1050	-3.257D+20	1.152D+03	-1.008	-22.2	-2.018D-04	4.691D-05	2.298	2.0626D-02	3.1616D-01	3.3679D-01	0.146
1	+0.80	1050	-3.742D+20	1.291D+03	-1.007	-21.7	-1.918D-04	4.749D-05	2.326	2.3398D-02	3.1510D-01	3.3850D-01	0.147
1	+1.00	1050	-4.275D+20	1.439D+03	-1.006	-21.1	-1.823D-04	4.783D-05	2.355	2.6407D-02	3.1405D-01	3.4045D-01	0.148
1	+1.20	1050	-4.857D+20	1.596D+03	-1.006	-20.6	-1.734D-04	4.795D-05	2.384	2.9642D-02	3.1301D-01	3.4265D-01	0.147
1	+1.40	1050	-5.487D+20	1.760D+03	-1.005	-20.1	-1.649D-04	4.787D-05	2.414	3.3101D-02	3.1199D-01	3.4509D-01	0.146
1	+1.60	1050	-6.165D+20	1.932D+03	-1.005	-19.7	-1.570D-04	4.761D-05	2.443	3.6778D-02	3.1098D-01	3.4776D-01	0.144
1	+1.80	1050	-6.890D+20	2.110D+03	-1.004	-19.2	-1.495D-04	4.719D-05	2.473	4.0659D-02	3.1000D-01	3.5066D-01	0.141
1	+2.00	1050	-7.662D+20	2.295D+03	-1.004	-18.8	-1.425D-04	4.664D-05	2.502	4.4742D-02	3.0904D-01	3.5378D-01	0.138
1	+2.20	1050	-8.479D+20	2.485D+03	-1.004	-18.4	-1.360D-04	4.597D-05	2.531	4.9008D-02	3.0809D-01	3.5710D-01	0.135
1	+2.40	1050	-9.340D+20	2.681D+03	-1.003	-18.0	-1.299D-04	4.522D-05	2.559	5.3449D-02	3.0717D-01	3.6061D-01	0.132
1	+2.60	1050	-1.024D+21	2.880D+03	-1.003	-17.6	-1.242D-04	4.440D-05	2.587	5.8055D-02	3.0626D-01	3.6431D-01	0.128
1	+2.80	1050	-1.119D+21	3.084D+03	-1.003	-17.3	-1.188D-04	4.352D-05	2.614	6.2814D-02	3.0536D-01	3.6818D-01	0.124
1	+3.00	1050	-1.218D+21	3.292D+03	-1.002	-16.9	-1.138D-04	4.260D-05	2.640	6.7716D-02	3.0449D-01	3.7220D-01	0.120
1	+3.20	1050	-1.320D+21	3.503D+03	-1.002	-16.6	-1.091D-04	4.166D-05	2.665	7.2738D-02	3.0362D-01	3.7636D-01	0.116
1	+3.40	1050	-1.426D+21	3.716D+03	-1.002	-16.3	-1.047D-04	4.071D-05	2.691	7.7910D-02	3.0277D-01	3.8068D-01	0.112
1	+3.60	1050	-1.536D+21	3.933D+03	-1.002	-16.0	-1.005D-04	3.974D-05	2.716	8.3217D-02	3.0193D-01	3.8514D-01	0.108
1	+3.80	1050	-1.650D+21	4.152D+03	-1.002	-15.7	-9.665D-05	3.879D-05	2.738	8.8566D-02	3.0109D-01	3.8966D-01	0.105
1	+4.00	1050	-1.767D+21	4.374D+03	-1.002	-15.5	-9.301D-05	3.783D-05	2.760	9.4045D-02	3.0027D-01	3.9431D-01	0.101
1	+4.20	1050	-1.887D+21	4.597D+03	-1.001	-15.2	-8.959D-05	3.690D-05	2.781	9.9616D-02	2.9945D-01	3.9907D-01	0.097
1	+4.40	1050	-2.011D+21	4.822D+03	-1.001	-15.0	-8.637D-05	3.597D-05	2.802	1.0527D-01	2.9864D-01	4.0391D-01	0.094
1	+4.60	1050	-2.137D+21	5.049D+03	-1.001	-14.8	-8.334D-05	3.507D-05	2.822	1.1100D-01	2.9783D-01	4.0883D-01	0.090
1	+4.80	1050	-2.267D+21	5.278D+03	-1.001	-14.5	-8.048D-05	3.419D-05	2.840	1.1681D-01	2.9703D-01	4.1384D-01	0.087
1	+5.00	1050	-2.400D+21	5.508D+03	-1.001	-14.3	-7.779D-05	3.333D-05	2.859	1.2268D-01	2.9623D-01	4.1891D-01	0.084
1	+5.20	1050	-2.535D+21	5.740D+03	-1.001	-14.1	-7.525D-05	3.250D-05	2.876	1.2861D-01	2.9543D-01	4.2404D-01	0.080
1	+5.40	1050	-2.674D+21	5.973D+03	-1.001	-14.0	-7.284D-05	3.169D-05	2.892	1.3460D-01	2.9463D-01	4.2923D-01	0.078
1	+5.60	1050	-2.815D+21	6.207D+03	-1.001	-13.8	-7.056D-05	3.090D-05	2.910	1.4071D-01	2.9384D-01	4.3455D-01	0.075
1	+5.80	1050	-2.959D+21	6.442D+03	-1.001	-13.6	-6.841D-05	3.015D-05	2.923	1.4673D-01	2.9304D-01	4.3977D-01	0.072
1	+6.00	1050	-3.106D+21	6.678D+03	-1.001	-13.4	-6.637D-05	2.942D-05	2.938	1.5286D-01	2.9225D-01	4.4511D-01	0.069
1	+6.20	1050	-3.255D+21	6.915D+03	-1.001	-13.3	-6.443D-05	2.871D-05	2.952	1.5904D-01	2.9145D-01	4.5049D-01	0.067
1	+6.40	1050	-3.407D+21	7.153D+03	-1.001	-13.1	-6.260D-05	2.803D-05	2.965	1.6525D-01	2.9066D-01	4.5591D-01	0.065
1	+6.60	1050	-3.561D+21	7.392D+03	-1.001	-13.0	-6.085D-05	2.737D-05	2.977	1.7150D-01	2.8987D-01	4.6136D-01	0.062
1	+6.80	1050	-3.718D+21	7.632D+03	-1.001	-12.8	-5.918D-05	2.673D-05	2.989	1.7778D-01	2.8907D-01	4.6685D-01	0.060
1	+7.00	1050	-3.878D+21	7.873D+03	-1.000	-12.7	-5.760D-05	2.612D-05	3.001	1.8409D-01	2.8828D-01	4.7236D-01	0.058
1	+7.20	1050	-4.039D+21	8.114D+03	-1.000	-12.5	-5.609D-05	2.553D-05	3.012	1.9042D-01	2.8748D-01	4.7790D-01	0.056
1	+7.40	1050	-4.203D+21	8.357D+03	-1.000	-12.4	-5.465D-05	2.496D-05	3.022	1.9678D-01	2.8668D-01	4.8346D-01	0.054
1	+7.60	10											

x	Eg eV	Atomic-Spacing cm	Debye K	Sound-Velocity cm/s	Num-Density cm ⁻³	Mass-Density g-cm ⁻³							
1.399D+00	1.40D+00	2.938D+00	2.94D+00	2.740D+01	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00		
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT
1	-5.00	1300	+2.907D+19	1.291D+02	+0.780	+21.6	+3.287D-04	1.394D-05	%11.186	1.3927D-02	2.6950D-01	2.8343D-01	0.064
1	-4.80	1300	+2.293D+19	1.119D+02	+0.673	+20.5	+3.118D-04	1.088D-05	%14.775	1.5954D-02	2.6945D-01	2.8540D-01	0.050
1	-4.60	1300	+1.763D+19	9.848D+01	+0.537	+18.7	+2.831D-04	7.893D-06	%19.218	1.8257D-02	2.6939D-01	2.8765D-01	0.036
1	-4.40	1300	+1.300D+19	8.841D+01	+0.379	+16.1	+2.403D-04	5.107D-06	%24.244	2.0678D-02	2.6932D-01	2.8999D-01	0.023
1	-4.20	1300	+8.848D+18	8.156D+01	+0.217	+12.5	+1.826D-04	2.720D-06	%29.207	2.2979D-02	2.6916D-01	2.9214D-01	0.012
1	-4.00	1300	+5.036D+18	7.785D+01	+0.082	+7.9	+1.116D-04	9.700D-07	%33.121	2.4874D-02	2.6906D-01	2.9393D-01	0.004
1	-3.80	1300	+1.415D+18	7.750D+01	+0.007	+2.4	+3.219D-05	8.032D-08	%34.937	2.6119D-02	2.6893D-01	2.9505D-01	0.000
1	-3.60	1300	-2.152D+18	7.727D+01	-0.016	-3.6	-4.889D-05	1.847D-07	%34.778	2.5923D-02	2.6878D-01	2.9470D-01	0.001
1	-3.40	1300	-5.801D+18	7.835D+01	-0.106	-8.9	-1.271D-04	1.266D-06	%32.455	2.4531D-02	2.6861D-01	2.9314D-01	0.006
1	-3.20	1300	-9.670D+18	8.271D+01	-0.249	-13.3	-1.957D-04	3.167D-06	%28.235	2.2528D-02	2.6841D-01	2.9094D-01	0.014
1	-3.00	1300	-1.391D+19	9.022D+01	-0.413	-16.7	-2.504D-04	5.655D-06	%23.187	2.0180D-02	2.6818D-01	2.8836D-01	0.025
1	-2.80	1300	-1.866D+19	1.010D+02	-0.567	-19.2	-2.901D-04	8.497D-06	%18.242	1.7767D-02	2.6792D-01	2.8569D-01	0.039
1	-2.60	1300	-2.412D+19	1.151D+02	-0.697	-20.8	-3.162D-04	1.151D-05	%13.963	1.5510D-02	2.6763D-01	2.8314D-01	0.053
1	-2.40	1300	-3.046D+19	1.331D+02	-0.798	-21.8	-3.309D-04	1.457D-05	%10.557	1.3553D-02	2.6730D-01	2.8085D-01	0.067
1	-2.20	1300	-3.791D+19	1.552D+02	-0.872	-22.3	-3.369D-04	1.762D-05	7.995	1.1968D-02	2.6692D-01	2.7889D-01	0.082
1	-2.00	1300	-4.671D+19	1.819D+02	-0.923	-22.4	-3.366D-04	2.061D-05	6.143	1.0779D-02	2.6651D-01	2.7729D-01	0.097
1	-1.80	1300	-5.715D+19	2.138D+02	-0.958	-22.4	-3.318D-04	2.353D-05	4.841	9.9844D-03	2.6604D-01	2.7603D-01	0.111
1	-1.60	1300	-6.952D+19	2.515D+02	-0.980	-22.1	-3.239D-04	2.639D-05	3.944	9.5694D-03	2.6553D-01	2.7510D-01	0.125
1	-1.40	1300	-8.419D+19	2.957D+02	-0.995	-21.8	-3.140D-04	2.916D-05	3.336	9.5159D-03	2.6497D-01	2.7449D-01	0.138
1	-1.20	1300	-1.015D+20	3.470D+02	-1.003	-21.4	-3.029D-04	3.183D-05	2.930	9.8081D-03	2.6437D-01	2.7417D-01	0.151
1	-1.00	1300	-1.219D+20	4.062D+02	-1.009	-21.0	-2.910D-04	3.440D-05	2.663	1.0435D-02	2.6371D-01	2.7415D-01	0.163
1	-0.80	1300	-1.459D+20	4.741D+02	-1.011	-20.5	-2.787D-04	3.683D-05	2.490	1.1388D-02	2.6302D-01	2.7441D-01	0.175
1	-0.60	1300	-1.738D+20	5.512D+02	-1.013	-20.0	-2.664D-04	3.911D-05	2.382	1.2667D-02	2.6229D-01	2.7495D-01	0.185
1	-0.40	1300	-2.061D+20	6.381D+02	-1.013	-19.6	-2.541D-04	4.119D-05	2.318	1.4271D-02	2.6152D-01	2.7579D-01	0.194
1	-0.20	1300	-2.433D+20	7.354D+02	-1.012	-19.1	-2.420D-04	4.307D-05	2.284	1.6203D-02	2.6073D-01	2.7693D-01	0.202
1	+0.00	1300	-2.858D+20	8.434D+02	-1.012	-18.6	-2.302D-04	4.470D-05	2.270	1.8469D-02	2.5991D-01	2.7838D-01	0.209
1	+0.20	1300	-3.340D+20	9.621D+02	-1.011	-18.2	-2.188D-04	4.608D-05	2.270	2.1071D-02	2.5908D-01	2.8015D-01	0.214
1	+0.40	1300	-3.881D+20	1.092D+03	-1.010	-17.7	-2.079D-04	4.719D-05	2.280	2.4012D-02	2.5825D-01	2.8226D-01	0.217
1	+0.60	1300	-4.485D+20	1.232D+03	-1.009	-17.3	-1.974D-04	4.803D-05	2.296	2.7291D-02	2.5740D-01	2.8470D-01	0.219
1	+0.80	1300	-5.154D+20	1.383D+03	-1.009	-16.9	-1.875D-04	4.861D-05	2.317	3.0907D-02	2.5657D-01	2.8747D-01	0.220
1	+1.00	1300	-5.889D+20	1.543D+03	-1.008	-16.5	-1.781D-04	4.893D-05	2.341	3.4857D-02	2.5573D-01	2.9059D-01	0.219
1	+1.20	1300	-6.690D+20	1.713D+03	-1.007	-16.1	-1.691D-04	4.901D-05	2.367	3.9125D-02	2.5491D-01	2.9403D-01	0.217
1	+1.40	1300	-7.558D+20	1.892D+03	-1.006	-15.7	-1.608D-04	4.888D-05	2.395	4.3704D-02	2.5410D-01	2.9780D-01	0.213
1	+1.60	1300	-8.492D+20	2.078D+03	-1.006	-15.4	-1.529D-04	4.856D-05	2.424	4.8586D-02	2.5330D-01	3.0188D-01	0.209
1	+1.80	1300	-9.492D+20	2.272D+03	-1.005	-15.0	-1.455D-04	4.807D-05	2.453	5.3751D-02	2.5251D-01	3.0626D-01	0.204
1	+2.00	1300	-1.055D+21	2.472D+03	-1.005	-14.7	-1.385D-04	4.745D-05	2.482	5.9195D-02	2.5174D-01	3.1093D-01	0.198
1	+2.20	1300	-1.168D+21	2.679D+03	-1.004	-14.4	-1.320D-04	4.671D-05	2.511	6.4892D-02	2.5098D-01	3.1587D-01	0.192
1	+2.40	1300	-1.287D+21	2.891D+03	-1.004	-14.1	-1.260D-04	4.587D-05	2.540	7.0830D-02	2.5023D-01	3.2106D-01	0.186
1	+2.60	1300	-1.411D+21	3.108D+03	-1.004	-13.8	-1.203D-04	4.497D-05	2.568	7.6993D-02	2.4950D-01	3.2649D-01	0.179
1	+2.80	1300	-1.542D+21	3.329D+03	-1.003	-13.5	-1.150D-04	4.401D-05	2.596	8.3366D-02	2.4878D-01	3.3214D-01	0.172
1	+3.00	1300	-1.677D+21	3.554D+03	-1.003	-13.3	-1.100D-04	4.302D-05	2.623	8.9935D-02	2.4807D-01	3.3800D-01	0.165
1	+3.20	1300	-1.819D+21	3.782D+03	-1.003	-13.0	-1.054D-04	4.200D-05	2.650	9.6672D-02	2.4736D-01	3.4403D-01	0.159
1	+3.40	1300	-1.965D+21	4.014D+03	-1.003	-12.8	-1.010D-04	4.097D-05	2.676	1.0360D-01	2.4666D-01	3.5027D-01	0.152
1	+3.60	1300	-2.117D+21	4.248D+03	-1.002	-12.6	-9.696D-05	3.994D-05	2.701	1.1071D-01	2.4597D-01	3.5668D-01	0.146
1	+3.80	1300	-2.273D+21	4.486D+03	-1.002	-12.3	-9.315D-05	3.892D-05	2.725	1.1790D-01	2.4529D-01	3.6319D-01	0.139
1	+4.00	1300	-2.434D+21	4.725D+03	-1.002	-12.1	-8.956D-05	3.790D-05	2.748	1.2525D-01	2.4461D-01	3.6985D-01	0.133
1	+4.20	1300	-2.600D+21	4.966D+03	-1.002	-11.9	-8.620D-05	3.690D-05	2.770	1.3272D-01	2.4393D-01	3.7665D-01	0.127
1	+4.40	1300	-2.770D+21	5.210D+03	-1.002	-11.8	-8.304D-05	3.593D-05	2.792	1.4030D-01	2.4326D-01	3.8356D-01	0.122
1	+4.60	1300	-2.944D+21	5.455D+03	-1.002	-11.6	-8.007D-05	3.497D-05	2.812	1.4798D-01	2.4258D-01	3.9057D-01	0.116
1	+4.80	1300	-3.123D+21	5.702D+03	-1.002	-11.4	-7.727D-05	3.404D-05	2.832	1.5576D-01	2.4191D-01	3.9768D-01	0.111
1	+5.00	1300	-3.306D+21	5.950D+03	-1.001	-11.2	-7.464D-05	3.314D-05	2.851	1.6363D-01	2.4124D-01	4.0487D-01	0.106
1	+5.20	1300	-3.493D+21	6.199D+03	-1.001	-11.1	-7.215D-05	3.227D-05	2.869	1.7157D-01	2.4057D-01	4.1214D-01	0.102
1	+5.40	1300	-3.684D+21	6.450D+03	-1.001	-10.9	-6.980D-05	3.142D-05	2.886	1.7959D-01	2.3990D-01	4.1949D-01	0.097
1	+5.60	1300	-3.878D+21	6.702D+03	-1.001	-10.8	-6.757D-05	3.059D-05	2.905	1.8781D-01	2.3923D-01	4.2704D-01	0.093
1	+5.80	1300	-4.077D+21	6.955D+03	-1.001	-10.7	-6.548D-05	2.982D-05	2.919	1.9581D-01	2.3856D-01	4.3437D-01	0.089
1	+6.00	1300	-4.279D+21	7.209D+03	-1.001	-10.5	-6.349D-05	2.906D-05	2.934	2.0401D-01	2.3789D-01	4.4189D-01	0.085
1	+6.20	1300	-4.484D+21	7.464D+03	-1.001	-10.4	-6.161D-05	2.833D-05	2.948	2.1226D-01	2.3721D-01	4.4947D-01	0.082
1	+6.40	1300	-4.694D+21	7.719D+03	-1.001	-10.3	-5.982D-05	2.762D-05	2.962	2.2055D-01	2.3654D-01	4.5708D-01	0.079
1	+6.60	1300	-4.906D+21	7.976D+03	-1.001	-10.2	-5.812D-05	2.694D-05	2.975	2.2888D-01	2.3586D-01	4.6474D-01	0.075
1	+6.80	1300	-5.122D+21	8.233D+03	-1.001	-10.0	-5.651D-05	2.629D-05	2.987	2.3726D-01	2.3518D-01	4.7244D-01	0.072
1	+7.00	1300	-5.342D+21	8.491D+03	-1.001	-9.9	-5.497D-05	2.566D-05	2.999	2.4566D-01	2.3450D-01	4.8017D-01	0.069
1	+7.20	1300	-5.565D+21	8.750D+03	-1.001	-9.8	-5.351D-05	2.505D-05	3.011	2.5410D-01	2.3382D-01	4.8793D-01	0.067
1	+7.40	1300	-5.791D+21	9.009D+03	-1.001	-9.7	-5.212D-05	2.447D-05	3.021	2.6257D-01	2.3314D-01	4.9571D-01	0.064
1	+7.60	1300	-6.020D+21	9.269D+03	-1.001	-9.6	-5.079D-05	2.391D-05	3.032	2.7107D-01	2.3246D-01	5.0352D-01	0.062
1	+7.80	1300	-6.252D+21	9.529D+03	-1.001	-9.5	-4.952D-05	2.337D-05	3.042	2.7961D-01	2.3178D-01	5.1139D-01	0.059
1	+8.00	1300	-6.487D+21	9.791D+03	-1.001	-9.4	-4.831D-05	2.285D-05	3.051	2.8813D-01	2.3109D-01	5.1922D-01	0.057

X	Eg eV	Atomic-Spacing cm	Debye K	Sound-Velocity cm/s	Num-Density cm ⁻³	Mass-Density g-cm ⁻³							
1	0.050	1.0400	5.44230-08	618.7	5.6530+05	4.9630+22	2.4980+00						
mc+	mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-		
1.3990+00	1.400+00	2.9380+00	2.940+00	2.7400+01	2.740+01	0.0000+00	0.000+00	9.1000-01	9.100-01	2.0000+00	2.000+00		
1	-5.20	300	-2.2820+17	7.7810+00	-1.052	-223.9	-6.3550-04	3.1420-06	1.984	3.43650-05	1.24410-01	1.24450-01	0.008
1	-5.00	300	-2.7860+17	9.3450+00	-1.047	-219.2	-6.1980-04	3.5900-06	1.987	4.13360-05	1.23970-01	1.24020-01	0.009
1	-4.80	300	-3.4000+17	1.1210+01	-1.042	-214.4	-6.0420-04	4.0910-06	1.991	4.96600-05	1.23480-01	1.23530-01	0.010
1	-4.60	300	-4.1510+17	1.3410+01	-1.038	-209.4	-5.8880-04	4.6500-06	1.995	5.95860-05	1.22910-01	1.22970-01	0.011
1	-4.40	300	-5.0660+17	1.6030+01	-1.034	-204.2	-5.7340-04	5.2700-06	2.001	7.14030-05	1.22270-01	1.22340-01	0.013
1	-4.20	300	-6.1810+17	1.9110+01	-1.031	-198.9	-5.5820-04	5.9560-06	2.008	8.54450-05	1.21540-01	1.21620-01	0.015
1	-4.00	300	-7.5410+17	2.2750+01	-1.028	-193.5	-5.4310-04	6.7100-06	2.016	1.02100-04	1.20720-01	1.20820-01	0.017
1	-3.80	300	-9.1980+17	2.7010+01	-1.025	-187.9	-5.2810-04	7.5350-06	2.026	1.21820-04	1.19810-01	1.19930-01	0.019
1	-3.60	300	-1.1210+18	3.2010+01	-1.023	-182.3	-5.1330-04	8.4330-06	2.037	1.45130-04	1.18790-01	1.18940-01	0.021
1	-3.40	300	-1.3670+18	3.7840+01	-1.022	-176.6	-4.9850-04	9.4050-06	2.049	1.72640-04	1.17670-01	1.17850-01	0.024
1	-3.20	300	-1.6650+18	4.4630+01	-1.021	-170.8	-4.8390-04	1.0450-05	2.063	2.05030-04	1.16440-01	1.16650-01	0.027
1	-3.00	300	-2.0280+18	5.2510+01	-1.021	-165.0	-4.6940-04	1.1570-05	2.079	2.43080-04	1.15100-01	1.15350-01	0.030
1	-2.80	300	-2.4670+18	6.1630+01	-1.021	-159.2	-4.5490-04	1.2750-05	2.097	2.87720-04	1.13660-01	1.13940-01	0.034
1	-2.60	300	-3.0000+18	7.2150+01	-1.021	-153.3	-4.4060-04	1.4010-05	2.116	3.39950-04	1.12100-01	1.12440-01	0.037
1	-2.40	300	-3.6440+18	8.4250+01	-1.022	-147.6	-4.2630-04	1.5310-05	2.138	4.00940-04	1.10450-01	1.10850-01	0.041
1	-2.20	300	-4.4220+18	9.8130+01	-1.024	-141.8	-4.1220-04	1.6670-05	2.161	4.71990-04	1.08700-01	1.09170-01	0.046
1	-2.00	300	-5.3580+18	1.1400+02	-1.026	-136.2	-3.9810-04	1.8070-05	2.185	5.54560-04	1.06870-01	1.07420-01	0.050
1	-1.80	300	-6.4820+18	1.3210+02	-1.028	-130.7	-3.8410-04	1.9490-05	2.212	6.50240-04	1.04970-01	1.05620-01	0.055
1	-1.60	300	-7.8270+18	1.5260+02	-1.030	-125.3	-3.7030-04	2.0920-05	2.240	7.60820-04	1.03020-01	1.03780-01	0.060
1	-1.40	300	-9.4310+18	1.7590+02	-1.032	-120.1	-3.5650-04	2.2350-05	2.269	8.88180-04	1.01040-01	1.01930-01	0.066
1	-1.20	300	-1.1330+19	2.0210+02	-1.034	-115.0	-3.4280-04	2.3750-05	2.299	1.03430-03	9.90360-02	1.00070-01	0.071
1	-1.00	300	-1.3580+19	2.3160+02	-1.035	-110.2	-3.2930-04	2.5120-05	2.330	1.20140-03	9.70330-02	9.82350-02	0.077
1	-0.80	300	-1.6220+19	2.6460+02	-1.037	-105.5	-3.1600-04	2.6420-05	2.362	1.39150-03	9.50490-02	9.64400-02	0.082
1	-0.60	300	-1.9310+19	3.0140+02	-1.038	-101.1	-3.0290-04	2.7640-05	2.395	1.60660-03	9.31000-02	9.47070-02	0.088
1	-0.40	300	-2.2880+19	3.4210+02	-1.039	-96.9	-2.9000-04	2.8770-05	2.428	1.84880-03	9.12000-02	9.30490-02	0.093
1	-0.20	300	-2.7000+19	3.8700+02	-1.039	-93.0	-2.7740-04	2.9770-05	2.460	2.11930-03	8.93640-02	9.14830-02	0.098
1	+0.00	300	-3.1710+19	4.3610+02	-1.039	-89.2	-2.6510-04	3.0650-05	2.492	2.41970-03	8.76030-02	9.00230-02	0.102
1	+0.20	300	-3.7040+19	4.8960+02	-1.039	-85.7	-2.5320-04	3.1390-05	2.524	2.75060-03	8.59260-02	8.86760-02	0.106
1	+0.40	300	-4.3040+19	5.4730+02	-1.038	-82.4	-2.4180-04	3.1990-05	2.555	3.11250-03	8.43390-02	8.74520-02	0.110
1	+0.60	300	-4.9740+19	6.0920+02	-1.037	-79.3	-2.3080-04	3.2440-05	2.585	3.50520-03	8.28480-02	8.63530-02	0.113
1	+0.80	300	-5.7150+19	6.7510+02	-1.037	-76.4	-2.2030-04	3.2750-05	2.614	3.92830-03	8.14540-02	8.53820-02	0.115
1	+1.00	300	-6.5290+19	7.4480+02	-1.036	-73.7	-2.1020-04	3.2920-05	2.642	4.38080-03	8.01570-02	8.45380-02	0.117
1	+1.20	300	-7.4170+19	8.1810+02	-1.034	-71.2	-2.0070-04	3.2970-05	2.669	4.86140-03	7.89580-02	8.38190-02	0.118
1	+1.40	300	-8.3800+19	8.9470+02	-1.033	-68.9	-1.9180-04	3.2900-05	2.695	5.36840-03	7.78520-02	8.32210-02	0.119
1	+1.60	300	-9.4150+19	9.7440+02	-1.032	-66.7	-1.8330-04	3.2730-05	2.721	5.90100-03	7.68370-02	8.27380-02	0.119
1	+1.80	300	-1.0520+20	1.0570+03	-1.031	-64.6	-1.7530-04	3.2470-05	2.745	6.45680-03	7.59090-02	8.23650-02	0.118
1	+2.00	300	-1.1700+20	1.1420+03	-1.030	-62.7	-1.6780-04	3.2140-05	2.767	7.03430-03	7.50620-02	8.20960-02	0.117
1	+2.20	300	-1.2950+20	1.2290+03	-1.029	-60.9	-1.6070-04	3.1740-05	2.789	7.63220-03	7.42910-02	8.19230-02	0.116
1	+2.40	300	-1.4260+20	1.3190+03	-1.028	-59.3	-1.5410-04	3.1300-05	2.810	8.24890-03	7.35910-02	8.18400-02	0.115
1	+2.60	300	-1.5650+20	1.4100+03	-1.026	-57.7	-1.4790-04	3.0820-05	2.830	8.88310-03	7.29570-02	8.18400-02	0.113
1	+2.80	300	-1.7090+20	1.5030+03	-1.025	-56.3	-1.4200-04	3.0320-05	2.849	9.53360-03	7.23830-02	8.19160-02	0.111
1	+3.00	300	-1.8600+20	1.5980+03	-1.024	-54.9	-1.3650-04	2.9790-05	2.867	1.01970-02	7.18630-02	8.20610-02	0.109
1	+3.20	300	-2.0160+20	1.6940+03	-1.023	-53.7	-1.3140-04	2.9250-05	2.885	1.08790-02	7.13950-02	8.22740-02	0.107
1	+3.40	300	-2.1790+20	1.7920+03	-1.022	-52.5	-1.2660-04	2.8690-05	2.902	1.15760-02	7.09710-02	8.25470-02	0.104
1	+3.60	300	-2.3460+20	1.8910+03	-1.021	-51.4	-1.2200-04	2.8140-05	2.917	1.22780-02	7.05890-02	8.28670-02	0.102
1	+3.80	300	-2.5200+20	1.9910+03	-1.021	-50.3	-1.1770-04	2.7590-05	2.932	1.29960-02	7.02440-02	8.32400-02	0.099
1	+4.00	300	-2.6980+20	2.0920+03	-1.020	-49.4	-1.1370-04	2.7050-05	2.947	1.37240-02	6.99330-02	8.36570-02	0.097
1	+4.20	300	-2.8820+20	2.1950+03	-1.019	-48.4	-1.0990-04	2.6500-05	2.960	1.44630-02	6.96510-02	8.41140-02	0.095
1	+4.40	300	-3.0710+20	2.2980+03	-1.018	-47.6	-1.0630-04	2.5970-05	2.973	1.52120-02	6.93970-02	8.46090-02	0.092
1	+4.60	300	-3.2640+20	2.4030+03	-1.017	-46.8	-1.0290-04	2.5450-05	2.986	1.59710-02	6.91670-02	8.51380-02	0.090
1	+4.80	300	-3.4620+20	2.5090+03	-1.017	-46.0	-9.9710-05	2.4940-05	2.997	1.67380-02	6.89590-02	8.56970-02	0.087
1	+5.00	300	-3.6650+20	2.6150+03	-1.016	-45.2	-9.6670-05	2.4440-05	3.009	1.75140-02	6.87700-02	8.62850-02	0.085
1	+5.20	300	-3.8720+20	2.7220+03	-1.015	-44.6	-9.3800-05	2.3950-05	3.019	1.82990-02	6.85990-02	8.68980-02	0.083
1	+5.40	300	-4.0840+20	2.8310+03	-1.015	-43.9	-9.1070-05	2.3480-05	3.029	1.90910-02	6.84440-02	8.75340-02	0.080
1	+5.60	300	-4.2990+20	2.9400+03	-1.014	-43.3	-8.8490-05	2.3020-05	3.039	1.98900-02	6.83020-02	8.81930-02	0.078
1	+5.80	300	-4.5190+20	3.0500+03	-1.013	-42.7	-8.6030-05	2.2570-05	3.048	2.06970-02	6.81740-02	8.88700-02	0.076
1	+6.00	300	-4.7430+20	3.1610+03	-1.013	-42.1	-8.3690-05	2.2140-05	3.057	2.15100-02	6.80560-02	8.95660-02	0.074
1	+6.20	300	-4.9710+20	3.2720+03	-1.012	-41.6	-8.1470-05	2.1720-05	3.066	2.23300-02	6.79490-02	9.02790-02	0.072
1	+6.40	300	-5.2030+20	3.3840+03	-1.012	-41.1	-7.9350-05	2.1310-05	3.074	2.31570-02	6.78500-02	9.10070-02	0.070
1	+6.60	300	-5.4390+20	3.4970+03	-1.011	-40.6	-7.7330-05	2.0910-05	3.081	2.39890-02	6.77600-02	9.17500-02	0.068
1	+6.80	300	-5.6790+20	3.6110+03	-1.011	-40.1	-7.5400-05	2.0530-05	3.089	2.48280-02	6.76780-02	9.25050-02	0.067
1	+7.00	300	-5.9220+20	3.7250+03	-1.011	-39.7	-7.3560-05	2.0160-05	3.096	2.56720-02	6.76010-02	9.32730-02	0.065
1	+7.20	300	-6.1690+20	3.8400+03	-1.010	-39.3	-7.1800-05	1.9800-05	3.102	2.65210-02	6.75310-02	9.40520-02	0.063
1	+7.40	300	-6.4190+20	3.9560+03	-1.010	-38.8	-7.0110-05	1.9450-05	3.109	2.73760-02	6.74660-02		

x	Eg eV	Atomic-Spacing cm	Debye K	Sound-Velocity cm/s	Num-Density cm-3	Mass-Density g-cm-3								
1	0.9807	5.4423D-08	618.7	5.653D+05	4.963D+22	2.498D+00								
	mc+	mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-		
	1.399D+00	1.40D+00	2.938D+00	2.94D+00	2.740D+01	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00		
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT	
1	-5.00	550	-6.914D+17	1.002D+01	-1.074	-97.2	-6.129D-04	3.766D-06	1.994	8.1571D-05	9.1244D-02	9.1326D-02	0.023	
1	-4.80	550	-8.441D+17	1.211D+01	-1.069	-95.7	-5.968D-04	4.313D-06	1.990	9.8348D-05	9.1058D-02	9.1156D-02	0.026	
1	-4.60	550	-1.030D+18	1.461D+01	-1.064	-94.1	-5.808D-04	4.927D-06	1.989	1.1855D-04	9.0832D-02	9.0950D-02	0.030	
1	-4.40	550	-1.257D+18	1.760D+01	-1.058	-92.5	-5.649D-04	5.615D-06	1.988	1.4283D-04	9.0572D-02	9.0715D-02	0.034	
1	-4.20	550	-1.534D+18	2.117D+01	-1.053	-90.7	-5.490D-04	6.383D-06	1.990	1.7195D-04	9.0275D-02	9.0447D-02	0.039	
1	-4.00	550	-1.872D+18	2.544D+01	-1.049	-88.9	-5.333D-04	7.236D-06	1.992	2.0682D-04	8.9936D-02	9.0142D-02	0.044	
1	-3.80	550	-2.283D+18	3.051D+01	-1.044	-87.1	-5.177D-04	8.178D-06	1.996	2.4851D-04	8.9550D-02	8.9799D-02	0.050	
1	-3.60	550	-2.784D+18	3.653D+01	-1.040	-85.2	-5.022D-04	9.216D-06	2.000	2.9826D-04	8.9114D-02	8.9413D-02	0.057	
1	-3.40	550	-3.393D+18	4.367D+01	-1.036	-83.2	-4.869D-04	1.035D-05	2.006	3.5753D-04	8.8623D-02	8.8981D-02	0.064	
1	-3.20	550	-4.134D+18	5.209D+01	-1.032	-81.2	-4.716D-04	1.159D-05	2.013	4.2802D-04	8.8073D-02	8.8501D-02	0.072	
1	-3.00	550	-5.034D+18	6.201D+01	-1.029	-79.1	-4.565D-04	1.292D-05	2.022	5.1169D-04	8.7459D-02	8.7971D-02	0.081	
1	-2.80	550	-6.125D+18	7.367D+01	-1.026	-77.0	-4.415D-04	1.436D-05	2.032	6.1081D-04	8.6780D-02	8.7391D-02	0.090	
1	-2.60	550	-7.447D+18	8.732D+01	-1.023	-74.9	-4.266D-04	1.589D-05	2.043	7.2792D-04	8.6034D-02	8.6762D-02	0.101	
1	-2.40	550	-9.046D+18	1.033D+02	-1.021	-72.8	-4.119D-04	1.752D-05	2.055	8.6612D-04	8.5219D-02	8.6085D-02	0.112	
1	-2.20	550	-1.098D+19	1.218D+02	-1.020	-70.6	-3.973D-04	1.922D-05	2.070	1.0288D-03	8.4339D-02	8.5367D-02	0.124	
1	-2.00	550	-1.330D+19	1.433D+02	-1.018	-68.5	-3.828D-04	2.100D-05	2.085	1.2196D-03	8.3392D-02	8.4611D-02	0.137	
1	-1.80	550	-1.609D+19	1.681D+02	-1.017	-66.3	-3.685D-04	2.283D-05	2.103	1.4431D-03	8.2385D-02	8.3828D-02	0.150	
1	-1.60	550	-1.943D+19	1.967D+02	-1.016	-64.2	-3.544D-04	2.471D-05	2.122	1.7038D-03	8.1325D-02	8.3028D-02	0.164	
1	-1.40	550	-2.341D+19	2.295D+02	-1.016	-62.2	-3.404D-04	2.659D-05	2.143	2.0070D-03	8.0219D-02	8.2226D-02	0.178	
1	-1.20	550	-2.814D+19	2.669D+02	-1.015	-60.1	-3.266D-04	2.847D-05	2.165	2.3581D-03	7.9078D-02	8.1436D-02	0.192	
1	-1.00	550	-3.372D+19	3.094D+02	-1.015	-58.1	-3.131D-04	3.032D-05	2.188	2.7630D-03	7.7912D-02	8.0675D-02	0.207	
1	-0.80	550	-4.028D+19	3.573D+02	-1.015	-56.2	-2.997D-04	3.210D-05	2.213	3.2276D-03	7.6735D-02	7.9963D-02	0.221	
1	-0.60	550	-4.793D+19	4.112D+02	-1.015	-54.4	-2.867D-04	3.380D-05	2.239	3.7578D-03	7.5559D-02	7.9316D-02	0.234	
1	-0.40	550	-5.681D+19	4.713D+02	-1.015	-52.6	-2.740D-04	3.537D-05	2.266	4.3592D-03	7.4395D-02	7.8755D-02	0.247	
1	-0.20	550	-6.703D+19	5.379D+02	-1.015	-50.8	-2.616D-04	3.681D-05	2.294	5.0370D-03	7.3257D-02	7.8294D-02	0.259	
1	+0.00	550	-7.871D+19	6.113D+02	-1.015	-49.2	-2.496D-04	3.808D-05	2.323	5.7954D-03	7.2155D-02	7.7951D-02	0.269	
1	+0.20	550	-9.195D+19	6.915D+02	-1.014	-47.6	-2.380D-04	3.917D-05	2.352	6.6378D-03	7.1099D-02	7.7737D-02	0.277	
1	+0.40	550	-1.068D+20	7.784D+02	-1.014	-46.1	-2.269D-04	4.006D-05	2.382	7.5663D-03	7.0096D-02	7.7662D-02	0.284	
1	+0.60	550	-1.235D+20	8.721D+02	-1.014	-44.7	-2.162D-04	4.077D-05	2.411	8.5828D-03	6.9151D-02	7.7734D-02	0.288	
1	+0.80	550	-1.419D+20	9.722D+02	-1.013	-43.4	-2.060D-04	4.128D-05	2.441	9.6849D-03	6.8269D-02	7.7954D-02	0.291	
1	+1.00	550	-1.621D+20	1.079D+03	-1.013	-42.1	-1.964D-04	4.160D-05	2.470	1.0872D-02	6.7452D-02	7.8324D-02	0.292	
1	+1.20	550	-1.841D+20	1.191D+03	-1.013	-40.9	-1.873D-04	4.175D-05	2.499	1.2143D-02	6.6701D-02	7.8844D-02	0.291	
1	+1.40	550	-2.080D+20	1.308D+03	-1.012	-39.7	-1.786D-04	4.173D-05	2.528	1.3494D-02	6.6014D-02	7.9508D-02	0.289	
1	+1.60	550	-2.337D+20	1.431D+03	-1.012	-38.7	-1.705D-04	4.158D-05	2.556	1.4921D-02	6.5390D-02	8.0311D-02	0.285	
1	+1.80	550	-2.612D+20	1.558D+03	-1.011	-37.6	-1.628D-04	4.130D-05	2.583	1.6422D-02	6.4826D-02	8.1248D-02	0.280	
1	+2.00	550	-2.905D+20	1.689D+03	-1.011	-36.7	-1.556D-04	4.091D-05	2.610	1.7991D-02	6.4318D-02	8.2309D-02	0.273	
1	+2.20	550	-3.214D+20	1.824D+03	-1.011	-35.8	-1.489D-04	4.043D-05	2.636	1.9624D-02	6.3863D-02	8.3487D-02	0.266	
1	+2.40	550	-3.541D+20	1.963D+03	-1.010	-35.0	-1.425D-04	3.988D-05	2.661	2.1318D-02	6.3456D-02	8.4774D-02	0.259	
1	+2.60	550	-3.884D+20	2.105D+03	-1.010	-34.2	-1.366D-04	3.928D-05	2.686	2.3069D-02	6.3093D-02	8.6162D-02	0.251	
1	+2.80	550	-4.242D+20	2.249D+03	-1.009	-33.4	-1.310D-04	3.862D-05	2.709	2.4872D-02	6.2771D-02	8.7643D-02	0.242	
1	+3.00	550	-4.616D+20	2.397D+03	-1.009	-32.7	-1.258D-04	3.794D-05	2.732	2.6722D-02	6.2485D-02	8.9207D-02	0.234	
1	+3.20	550	-5.005D+20	2.547D+03	-1.009	-32.0	-1.209D-04	3.723D-05	2.754	2.8624D-02	6.2231D-02	9.0855D-02	0.225	
1	+3.40	550	-5.408D+20	2.699D+03	-1.008	-31.4	-1.163D-04	3.650D-05	2.775	3.0566D-02	6.2006D-02	9.2572D-02	0.217	
1	+3.60	550	-5.825D+20	2.853D+03	-1.008	-30.8	-1.120D-04	3.577D-05	2.795	3.2548D-02	6.1808D-02	9.4356D-02	0.208	
1	+3.80	550	-6.255D+20	3.009D+03	-1.007	-30.3	-1.079D-04	3.503D-05	2.815	3.4569D-02	6.1632D-02	9.6200D-02	0.200	
1	+4.00	550	-6.698D+20	3.167D+03	-1.007	-29.7	-1.041D-04	3.429D-05	2.833	3.6624D-02	6.1476D-02	9.8100D-02	0.192	
1	+4.20	550	-7.154D+20	3.327D+03	-1.007	-29.2	-1.004D-04	3.357D-05	2.851	3.8713D-02	6.1338D-02	1.0005D-01	0.185	
1	+4.40	550	-7.622D+20	3.488D+03	-1.006	-28.7	-9.704D-05	3.285D-05	2.868	4.0833D-02	6.1216D-02	1.0205D-01	0.177	
1	+4.60	550	-8.103D+20	3.651D+03	-1.006	-28.3	-9.383D-05	3.214D-05	2.885	4.2982D-02	6.1107D-02	1.0409D-01	0.170	
1	+4.80	550	-8.594D+20	3.815D+03	-1.006	-27.9	-9.079D-05	3.145D-05	2.900	4.5158D-02	6.1011D-02	1.0617D-01	0.163	
1	+5.00	550	-9.098D+20	3.980D+03	-1.006	-27.5	-8.792D-05	3.077D-05	2.915	4.7360D-02	6.0925D-02	1.0829D-01	0.156	
1	+5.20	550	-9.612D+20	4.147D+03	-1.005	-27.1	-8.521D-05	3.011D-05	2.929	4.9576D-02	6.0849D-02	1.1043D-01	0.150	
1	+5.40	550	-1.014D+21	4.315D+03	-1.005	-26.7	-8.263D-05	2.946D-05	2.943	5.1835D-02	6.0781D-02	1.1262D-01	0.144	
1	+5.60	550	-1.067D+21	4.484D+03	-1.005	-26.4	-8.019D-05	2.884D-05	2.957	5.4106D-02	6.0720D-02	1.1483D-01	0.138	
1	+5.80	550	-1.122D+21	4.654D+03	-1.005	-26.0	-7.789D-05	2.823D-05	2.968	5.6377D-02	6.0665D-02	1.1704D-01	0.133	
1	+6.00	550	-1.177D+21	4.825D+03	-1.004	-25.7	-7.567D-05	2.763D-05	2.981	5.8706D-02	6.0616D-02	1.1932D-01	0.127	
1	+6.20	550	-1.234D+21	4.998D+03	-1.004	-25.4	-7.358D-05	2.706D-05	2.992	6.1034D-02	6.0572D-02	1.2161D-01	0.122	
1	+6.40	550	-1.292D+21	5.171D+03	-1.004	-25.1	-7.159D-05	2.650D-05	3.003	6.3379D-02	6.0532D-02	1.2391D-01	0.118	
1	+6.60	550	-1.350D+21	5.345D+03	-1.004	-24.8	-6.969D-05	2.596D-05	3.014	6.5739D-02	6.0496D-02	1.2624D-01	0.113	
1	+6.80	550	-1.410D+21	5.520D+03	-1.004	-24.5	-6.788D-05	2.544D-05	3.024	6.8116D-02	6.0463D-02	1.2858D-01	0.109	
1	+7.00	550	-1.470D+21	5.696D+03	-1.003	-24.3	-6.616D-05	2.493D-05	3.033	7.0506D-02	6.0433D-02	1.3094D-01	0.105	
1	+7.20	550	-1.531D+21	5.873D+03	-1.003	-24.0	-6.451D-05	2.444D-05	3.042	7.2911D-02	6.0406D-02	1.3332D-01	0.101	
1	+7.40	550	-1.593D+21	6.050D+03	-1.003	-23.8	-6.294D-05	2.396D-05	3.051	7.5328D-02	6.0382D-02	1.3571D-01	0.097	
1	+7.60	550	-1.657D+21	6.228D+03	-1.003	-23.5	-6.143D-05	2.350D-05	3.059	7.7758D-02	6.0359D-02	1.3812D-01	0.094	
1	+7.80	550	-1.720D+21	6.407D+03	-1.003	-23.3	-5.999D-05	2.306D-05	3.067	8.0200D-02	6.0338D-02	1.4054D-01	0.090	
1	+8.00	550	-1.785D+21	6.587D+03	-1.003	-23.1	-5.861D-05	2.263D-05	3.074	8.2653D-02	6.0319D-02	1.4297D-01	0.087	

x	Eg eV	Atomic-Spacing		Debye Sound-Velocity		Num-Density		Mass-Density		gamma+	gamma-	beta+	beta-
		cm	cm	K	cm/s	cm-3	cm-3	g-cm-3	g-cm-3				
1	0.100	0.9566	5.4537D-08	594.9	5.446D+05	4.932D+22	2.665D+00						
	mc+	mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-					
1.399D+00	1.40D+00	2.938D+00	2.94D+00	2.740D+01	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00		
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT
1	-5.00	550	-6.914D+17	9.933D+00	-1.075	-96.4	-6.128D-04	3.730D-06	2.002	8.1136D-05	7.0057D-02	7.0138D-02	0.029
1	-4.80	550	-8.441D+17	1.200D+01	-1.069	-94.9	-5.967D-04	4.272D-06	1.995	9.7701D-05	6.9882D-02	6.9980D-02	0.034
1	-4.60	550	-1.030D+18	1.447D+01	-1.064	-93.3	-5.807D-04	4.881D-06	1.992	1.1767D-04	6.9680D-02	6.9798D-02	0.038
1	-4.40	550	-1.257D+18	1.744D+01	-1.059	-91.7	-5.648D-04	5.563D-06	1.991	1.4170D-04	6.9448D-02	6.9590D-02	0.044
1	-4.20	550	-1.534D+18	2.099D+01	-1.054	-90.0	-5.490D-04	6.324D-06	1.991	1.7054D-04	6.9186D-02	6.9356D-02	0.050
1	-4.00	550	-1.872D+18	2.521D+01	-1.049	-88.2	-5.332D-04	7.169D-06	1.993	2.0508D-04	6.8882D-02	6.9087D-02	0.057
1	-3.80	550	-2.283D+18	3.025D+01	-1.044	-86.3	-5.176D-04	8.104D-06	1.996	2.4640D-04	6.8537D-02	6.8784D-02	0.065
1	-3.60	550	-2.784D+18	3.622D+01	-1.040	-84.5	-5.021D-04	9.132D-06	2.001	2.9572D-04	6.8148D-02	6.8444D-02	0.073
1	-3.40	550	-3.393D+18	4.329D+01	-1.036	-82.5	-4.868D-04	1.026D-05	2.006	3.5448D-04	6.7711D-02	6.8065D-02	0.083
1	-3.20	550	-4.134D+18	5.165D+01	-1.032	-80.5	-4.715D-04	1.148D-05	2.013	4.2440D-04	6.7222D-02	6.7646D-02	0.093
1	-3.00	550	-5.034D+18	6.150D+01	-1.029	-78.5	-4.564D-04	1.281D-05	2.021	5.0739D-04	6.6679D-02	6.7186D-02	0.105
1	-2.80	550	-6.125D+18	7.307D+01	-1.026	-76.4	-4.414D-04	1.423D-05	2.031	6.0571D-04	6.6079D-02	6.6685D-02	0.117
1	-2.60	550	-7.447D+18	8.662D+01	-1.023	-74.3	-4.265D-04	1.575D-05	2.042	7.2192D-04	6.5422D-02	6.6144D-02	0.131
1	-2.40	550	-9.046D+18	1.024D+02	-1.021	-72.2	-4.117D-04	1.737D-05	2.055	8.5906D-04	6.4707D-02	6.5566D-02	0.146
1	-2.20	550	-1.098D+19	1.209D+02	-1.020	-70.1	-3.971D-04	1.906D-05	2.069	1.0205D-03	6.3936D-02	6.4957D-02	0.161
1	-2.00	550	-1.330D+19	1.422D+02	-1.018	-68.0	-3.827D-04	2.082D-05	2.085	1.2099D-03	6.3113D-02	6.4323D-02	0.178
1	-1.80	550	-1.609D+19	1.669D+02	-1.017	-65.9	-3.683D-04	2.264D-05	2.102	1.4318D-03	6.2240D-02	6.3672D-02	0.196
1	-1.60	550	-1.943D+19	1.953D+02	-1.016	-63.8	-3.542D-04	2.450D-05	2.121	1.6906D-03	6.1325D-02	6.3015D-02	0.214
1	-1.40	550	-2.341D+19	2.279D+02	-1.016	-61.7	-3.402D-04	2.638D-05	2.142	1.9917D-03	6.0375D-02	6.2367D-02	0.233
1	-1.20	550	-2.814D+19	2.650D+02	-1.015	-59.7	-3.264D-04	2.824D-05	2.164	2.3404D-03	5.9400D-02	6.1740D-02	0.252
1	-1.00	550	-3.372D+19	3.072D+02	-1.015	-57.7	-3.129D-04	3.007D-05	2.187	2.7425D-03	5.8410D-02	6.1152D-02	0.270
1	-0.80	550	-4.028D+19	3.549D+02	-1.015	-55.8	-2.995D-04	3.185D-05	2.212	3.2041D-03	5.7415D-02	6.0619D-02	0.289
1	-0.60	550	-4.793D+19	4.085D+02	-1.015	-54.0	-2.865D-04	3.353D-05	2.238	3.7309D-03	5.6428D-02	6.0159D-02	0.307
1	-0.40	550	-5.681D+19	4.683D+02	-1.015	-52.2	-2.738D-04	3.509D-05	2.265	4.3284D-03	5.5459D-02	5.9787D-02	0.323
1	-0.20	550	-6.703D+19	5.345D+02	-1.015	-50.5	-2.614D-04	3.652D-05	2.293	5.0020D-03	5.4517D-02	5.9519D-02	0.337
1	+0.00	550	-7.871D+19	6.075D+02	-1.014	-48.9	-2.494D-04	3.778D-05	2.321	5.7558D-03	5.3613D-02	5.9369D-02	0.350
1	+0.20	550	-9.195D+19	6.873D+02	-1.014	-47.3	-2.378D-04	3.886D-05	2.350	6.5931D-03	5.2754D-02	5.9347D-02	0.360
1	+0.40	550	-1.068D+20	7.738D+02	-1.014	-45.8	-2.267D-04	3.975D-05	2.380	7.5161D-03	5.1945D-02	5.9461D-02	0.368
1	+0.60	550	-1.235D+20	8.670D+02	-1.013	-44.4	-2.160D-04	4.045D-05	2.410	8.5267D-03	5.1190D-02	5.9717D-02	0.373
1	+0.80	550	-1.419D+20	9.667D+02	-1.013	-43.1	-2.058D-04	4.096D-05	2.439	9.6226D-03	5.0493D-02	6.0116D-02	0.375
1	+1.00	550	-1.621D+20	1.072D+03	-1.013	-41.8	-1.962D-04	4.128D-05	2.468	1.0803D-02	4.9854D-02	6.0657D-02	0.374
1	+1.20	550	-1.841D+20	1.184D+03	-1.012	-40.6	-1.871D-04	4.142D-05	2.497	1.2067D-02	4.9274D-02	6.1341D-02	0.371
1	+1.40	550	-2.080D+20	1.301D+03	-1.012	-39.5	-1.784D-04	4.141D-05	2.526	1.3411D-02	4.8749D-02	6.2160D-02	0.366
1	+1.60	550	-2.337D+20	1.423D+03	-1.012	-38.4	-1.703D-04	4.126D-05	2.554	1.4830D-02	4.8278D-02	6.3109D-02	0.360
1	+1.80	550	-2.612D+20	1.549D+03	-1.011	-37.4	-1.626D-04	4.098D-05	2.581	1.6323D-02	4.7859D-02	6.4182D-02	0.351
1	+2.00	550	-2.905D+20	1.680D+03	-1.011	-36.5	-1.554D-04	4.059D-05	2.608	1.7884D-02	4.7486D-02	6.5370D-02	0.342
1	+2.20	550	-3.214D+20	1.815D+03	-1.010	-35.6	-1.487D-04	4.012D-05	2.634	1.9509D-02	4.7156D-02	6.6665D-02	0.331
1	+2.40	550	-3.541D+20	1.952D+03	-1.010	-34.8	-1.424D-04	3.957D-05	2.660	2.1194D-02	4.6866D-02	6.8060D-02	0.320
1	+2.60	550	-3.884D+20	2.094D+03	-1.009	-34.0	-1.364D-04	3.897D-05	2.684	2.2936D-02	4.6612D-02	6.9547D-02	0.308
1	+2.80	550	-4.242D+20	2.238D+03	-1.009	-33.2	-1.309D-04	3.832D-05	2.708	2.4730D-02	4.6389D-02	7.1119D-02	0.296
1	+3.00	550	-4.616D+20	2.384D+03	-1.009	-32.5	-1.256D-04	3.764D-05	2.730	2.6571D-02	4.6194D-02	7.2765D-02	0.284
1	+3.20	550	-5.005D+20	2.534D+03	-1.008	-31.9	-1.207D-04	3.693D-05	2.753	2.8463D-02	4.6025D-02	7.4487D-02	0.273
1	+3.40	550	-5.408D+20	2.685D+03	-1.008	-31.2	-1.161D-04	3.621D-05	2.774	3.0395D-02	4.5877D-02	7.6272D-02	0.261
1	+3.60	550	-5.825D+20	2.838D+03	-1.008	-30.7	-1.118D-04	3.548D-05	2.794	3.2368D-02	4.5748D-02	7.8116D-02	0.250
1	+3.80	550	-6.255D+20	2.994D+03	-1.007	-30.1	-1.077D-04	3.475D-05	2.814	3.4378D-02	4.5637D-02	8.0015D-02	0.239
1	+4.00	550	-6.698D+20	3.151D+03	-1.007	-29.6	-1.039D-04	3.402D-05	2.832	3.6423D-02	4.5540D-02	8.1963D-02	0.228
1	+4.20	550	-7.154D+20	3.310D+03	-1.007	-29.1	-1.003D-04	3.329D-05	2.850	3.8502D-02	4.5455D-02	8.3957D-02	0.218
1	+4.40	550	-7.622D+20	3.470D+03	-1.006	-28.6	-9.689D-05	3.258D-05	2.867	4.0611D-02	4.5382D-02	8.5993D-02	0.208
1	+4.60	550	-8.103D+20	3.632D+03	-1.006	-28.1	-9.368D-05	3.188D-05	2.884	4.2749D-02	4.5318D-02	8.8067D-02	0.199
1	+4.80	550	-8.594D+20	3.796D+03	-1.006	-27.7	-9.065D-05	3.119D-05	2.900	4.4915D-02	4.5262D-02	9.0177D-02	0.190
1	+5.00	550	-9.098D+20	3.960D+03	-1.005	-27.3	-8.778D-05	3.051D-05	2.915	4.7106D-02	4.5213D-02	9.2319D-02	0.182
1	+5.20	550	-9.612D+20	4.126D+03	-1.005	-26.9	-8.507D-05	2.986D-05	2.928	4.9311D-02	4.5170D-02	9.4482D-02	0.174
1	+5.40	550	-1.014D+21	4.293D+03	-1.005	-26.6	-8.249D-05	2.922D-05	2.943	5.1559D-02	4.5133D-02	9.6692D-02	0.166
1	+5.60	550	-1.067D+21	4.461D+03	-1.005	-26.2	-8.006D-05	2.859D-05	2.956	5.3818D-02	4.5100D-02	9.8918D-02	0.159
1	+5.80	550	-1.122D+21	4.631D+03	-1.004	-25.9	-7.776D-05	2.800D-05	2.967	5.6078D-02	4.5072D-02	1.0115D-01	0.152
1	+6.00	550	-1.177D+21	4.801D+03	-1.004	-25.6	-7.554D-05	2.740D-05	2.980	5.8395D-02	4.5046D-02	1.0344D-01	0.146
1	+6.20	550	-1.234D+21	4.972D+03	-1.004	-25.3	-7.345D-05	2.683D-05	2.992	6.0711D-02	4.5024D-02	1.0573D-01	0.140
1	+6.40	550	-1.292D+21	5.145D+03	-1.004	-25.0	-7.146D-05	2.627D-05	3.003	6.3044D-02	4.5004D-02	1.0805D-01	0.134
1	+6.60	550	-1.350D+21	5.318D+03	-1.004	-24.7	-6.957D-05	2.574D-05	3.013	6.5393D-02	4.4986D-02	1.1038D-01	0.128
1	+6.80	550	-1.410D+21	5.492D+03	-1.003	-24.4	-6.776D-05	2.522D-05	3.023	6.7757D-02	4.4970D-02	1.1273D-01	0.123
1	+7.00	550	-1.470D+21	5.667D+03	-1.003	-24.1	-6.604D-05	2.471D-05	3.032	7.0135D-02	4.4956D-02	1.1509D-01	0.118
1	+7.20	550	-1.531D+21	5.843D+03	-1.003	-23.9	-6.439D-05	2.423D-05	3.042	7.2527D-02	4.4944D-02	1.1747D-01	0.113
1	+7.40	550	-1.593D+21	6.019D+03	-1.003	-23.6	-6.282D-05	2.376D-05	3.050	7.4932D-02	4.4932D-02	1.1986D-01	0.109
1													

X		Eg	Atomic-Spacing		Debye		Sound-Velocity		Num-Density		Mass-Density		
		eV	cm	K	cm/s	cm ⁻³	g-cm ⁻³						
1	0.050	0.9215	5.4423D-08	618.7	5.653D+05	4.963D+22	2.498D+00						
mc+	mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-		
1.399D+00	1.40D+00	2.938D+00	2.94D+00	2.740D+01	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00		
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT
1	-5.00	800	-1.171D+18	1.067D+01	-0.956	-54.4	-5.607D-04	3.354D-06	11.681	7.3965D-04	7.4511D-02	7.5250D-02	0.036
1	-4.80	800	-1.447D+18	1.278D+01	-0.995	-54.8	-5.604D-04	4.013D-06	8.607	6.5288D-04	7.4403D-02	7.5056D-02	0.043
1	-4.60	800	-1.779D+18	1.535D+01	-1.020	-54.9	-5.550D-04	4.728D-06	6.471	5.8969D-04	7.4279D-02	7.4869D-02	0.051
1	-4.40	800	-2.183D+18	1.847D+01	-1.035	-54.6	-5.462D-04	5.509D-06	5.007	5.4892D-04	7.4135D-02	7.4684D-02	0.059
1	-4.20	800	-2.673D+18	2.223D+01	-1.043	-54.2	-5.350D-04	6.362D-06	4.013	5.2950D-04	7.3970D-02	7.4499D-02	0.068
1	-4.00	800	-3.269D+18	2.675D+01	-1.047	-53.5	-5.223D-04	7.298D-06	3.342	5.3076D-04	7.3780D-02	7.4310D-02	0.079
1	-3.80	800	-3.993D+18	3.218D+01	-1.048	-52.7	-5.086D-04	8.325D-06	2.892	5.5250D-04	7.3562D-02	7.4114D-02	0.090
1	-3.60	800	-4.873D+18	3.868D+01	-1.047	-51.9	-4.943D-04	9.449D-06	2.592	5.9512D-04	7.3313D-02	7.3908D-02	0.102
1	-3.40	800	-5.944D+18	4.643D+01	-1.045	-51.0	-4.796D-04	1.068D-05	2.393	6.5960D-04	7.3031D-02	7.3690D-02	0.116
1	-3.20	800	-7.245D+18	5.565D+01	-1.043	-50.0	-4.646D-04	1.201D-05	2.263	7.4758D-04	7.2711D-02	7.3458D-02	0.131
1	-3.00	800	-8.825D+18	6.660D+01	-1.039	-49.0	-4.496D-04	1.346D-05	2.179	8.6136D-04	7.2351D-02	7.3212D-02	0.147
1	-2.80	800	-1.074D+19	7.955D+01	-1.036	-47.9	-4.345D-04	1.502D-05	2.126	1.0040D-03	7.1948D-02	7.2952D-02	0.165
1	-2.60	800	-1.306D+19	9.484D+01	-1.033	-46.8	-4.195D-04	1.669D-05	2.094	1.1791D-03	7.1499D-02	7.2678D-02	0.184
1	-2.40	800	-1.587D+19	1.128D+02	-1.030	-45.7	-4.046D-04	1.847D-05	2.077	1.3914D-03	7.1003D-02	7.2395D-02	0.204
1	-2.20	800	-1.925D+19	1.339D+02	-1.027	-44.6	-3.897D-04	2.034D-05	2.071	1.6461D-03	7.0460D-02	7.2106D-02	0.226
1	-2.00	800	-2.333D+19	1.586D+02	-1.024	-43.4	-3.750D-04	2.230D-05	2.071	1.9495D-03	6.9870D-02	7.1820D-02	0.248
1	-1.80	800	-2.823D+19	1.872D+02	-1.022	-42.3	-3.605D-04	2.433D-05	2.077	2.3086D-03	6.9233D-02	7.1541D-02	0.272
1	-1.60	800	-3.408D+19	2.205D+02	-1.020	-41.2	-3.461D-04	2.641D-05	2.087	2.7315D-03	6.8552D-02	7.1284D-02	0.296
1	-1.40	800	-4.107D+19	2.588D+02	-1.018	-40.0	-3.320D-04	2.852D-05	2.100	3.2271D-03	6.7833D-02	7.1060D-02	0.321
1	-1.20	800	-4.936D+19	3.028D+02	-1.016	-38.9	-3.180D-04	3.063D-05	2.116	3.8049D-03	6.7082D-02	7.0887D-02	0.346
1	-1.00	800	-5.915D+19	3.531D+02	-1.015	-37.8	-3.043D-04	3.271D-05	2.135	4.4751D-03	6.6305D-02	7.0780D-02	0.370
1	-0.80	800	-7.065D+19	4.102D+02	-1.013	-36.7	-2.909D-04	3.472D-05	2.155	5.2483D-03	6.5511D-02	7.0759D-02	0.393
1	-0.60	800	-8.408D+19	4.747D+02	-1.012	-35.7	-2.778D-04	3.663D-05	2.177	6.1348D-03	6.4710D-02	7.0844D-02	0.414
1	-0.40	800	-9.965D+19	5.469D+02	-1.011	-34.6	-2.650D-04	3.842D-05	2.201	7.1451D-03	6.3910D-02	7.1055D-02	0.433
1	-0.20	800	-1.176D+20	6.273D+02	-1.011	-33.7	-2.526D-04	4.004D-05	2.226	8.2886D-03	6.3121D-02	7.1409D-02	0.449
1	+0.00	800	-1.381D+20	7.162D+02	-1.010	-32.7	-2.407D-04	4.148D-05	2.252	9.5735D-03	6.2352D-02	7.1925D-02	0.461
1	+0.20	800	-1.613D+20	8.136D+02	-1.009	-31.8	-2.291D-04	4.271D-05	2.279	1.1007D-02	6.1611D-02	7.2618D-02	0.471
1	+0.40	800	-1.874D+20	9.196D+02	-1.008	-30.9	-2.181D-04	4.373D-05	2.307	1.2593D-02	6.0905D-02	7.3498D-02	0.476
1	+0.60	800	-2.166D+20	1.034D+03	-1.008	-30.0	-2.075D-04	4.452D-05	2.335	1.4334D-02	6.0240D-02	7.4574D-02	0.478
1	+0.80	800	-2.489D+20	1.156D+03	-1.007	-29.2	-1.974D-04	4.508D-05	2.365	1.6234D-02	5.9618D-02	7.5852D-02	0.475
1	+1.00	800	-2.843D+20	1.287D+03	-1.007	-28.4	-1.879D-04	4.544D-05	2.394	1.8287D-02	5.9043D-02	7.7330D-02	0.470
1	+1.20	800	-3.230D+20	1.425D+03	-1.006	-27.7	-1.789D-04	4.559D-05	2.423	2.0490D-02	5.8516D-02	7.9006D-02	0.462
1	+1.40	800	-3.649D+20	1.569D+03	-1.006	-27.0	-1.704D-04	4.555D-05	2.452	2.2843D-02	5.8035D-02	8.0878D-02	0.451
1	+1.60	800	-4.100D+20	1.720D+03	-1.006	-26.3	-1.624D-04	4.535D-05	2.481	2.5337D-02	5.7601D-02	8.2937D-02	0.437
1	+1.80	800	-4.582D+20	1.877D+03	-1.005	-25.7	-1.549D-04	4.501D-05	2.510	2.7965D-02	5.7211D-02	8.5176D-02	0.423
1	+2.00	800	-5.095D+20	2.039D+03	-1.005	-25.1	-1.478D-04	4.454D-05	2.539	3.0724D-02	5.6861D-02	8.7585D-02	0.407
1	+2.20	800	-5.639D+20	2.206D+03	-1.005	-24.5	-1.412D-04	4.397D-05	2.566	3.3602D-02	5.6551D-02	9.0153D-02	0.390
1	+2.40	800	-6.212D+20	2.377D+03	-1.004	-24.0	-1.350D-04	4.332D-05	2.594	3.6595D-02	5.6276D-02	9.2871D-02	0.373
1	+2.60	800	-6.813D+20	2.552D+03	-1.004	-23.5	-1.292D-04	4.259D-05	2.620	3.9696D-02	5.6033D-02	9.5728D-02	0.356
1	+2.80	800	-7.442D+20	2.731D+03	-1.004	-23.0	-1.237D-04	4.182D-05	2.646	4.2896D-02	5.5818D-02	9.8714D-02	0.339
1	+3.00	800	-8.098D+20	2.913D+03	-1.004	-22.5	-1.186D-04	4.101D-05	2.671	4.6189D-02	5.5630D-02	1.0182D-01	0.322
1	+3.20	800	-8.780D+20	3.098D+03	-1.003	-22.1	-1.139D-04	4.017D-05	2.695	4.9570D-02	5.5465D-02	1.0503D-01	0.306
1	+3.40	800	-9.487D+20	3.286D+03	-1.003	-21.7	-1.094D-04	3.932D-05	2.718	5.3032D-02	5.5320D-02	1.0835D-01	0.290
1	+3.60	800	-1.022D+21	3.477D+03	-1.003	-21.3	-1.052D-04	3.846D-05	2.741	5.6570D-02	5.5193D-02	1.1176D-01	0.275
1	+3.80	800	-1.097D+21	3.669D+03	-1.003	-20.9	-1.012D-04	3.760D-05	2.763	6.0178D-02	5.5081D-02	1.1526D-01	0.261
1	+4.00	800	-1.175D+21	3.864D+03	-1.003	-20.6	-9.750D-05	3.674D-05	2.783	6.3852D-02	5.4984D-02	1.1884D-01	0.247
1	+4.20	800	-1.255D+21	4.061D+03	-1.002	-20.2	-9.401D-05	3.589D-05	2.804	6.7587D-02	5.4898D-02	1.2248D-01	0.234
1	+4.40	800	-1.337D+21	4.260D+03	-1.002	-19.9	-9.071D-05	3.505D-05	2.823	7.1378D-02	5.4823D-02	1.2620D-01	0.222
1	+4.60	800	-1.421D+21	4.460D+03	-1.002	-19.6	-8.761D-05	3.423D-05	2.841	7.5223D-02	5.4757D-02	1.2998D-01	0.211
1	+4.80	800	-1.508D+21	4.662D+03	-1.002	-19.3	-8.468D-05	3.343D-05	2.859	7.9116D-02	5.4699D-02	1.3382D-01	0.200
1	+5.00	800	-1.596D+21	4.865D+03	-1.002	-19.1	-8.192D-05	3.264D-05	2.876	8.3055D-02	5.4648D-02	1.3770D-01	0.190
1	+5.20	800	-1.686D+21	5.070D+03	-1.002	-18.8	-7.930D-05	3.188D-05	2.892	8.7037D-02	5.4603D-02	1.4164D-01	0.180
1	+5.40	800	-1.778D+21	5.276D+03	-1.002	-18.5	-7.683D-05	3.114D-05	2.908	9.1058D-02	5.4563D-02	1.4562D-01	0.171
1	+5.60	800	-1.872D+21	5.483D+03	-1.002	-18.3	-7.448D-05	3.042D-05	2.922	9.5116D-02	5.4528D-02	1.4964D-01	0.163
1	+5.80	800	-1.968D+21	5.691D+03	-1.001	-18.1	-7.226D-05	2.972D-05	2.937	9.9208D-02	5.4497D-02	1.5370D-01	0.155
1	+6.00	800	-2.066D+21	5.900D+03	-1.001	-17.9	-7.015D-05	2.904D-05	2.950	1.0333D-01	5.4469D-02	1.5780D-01	0.147
1	+6.20	800	-2.165D+21	6.111D+03	-1.001	-17.6	-6.815D-05	2.838D-05	2.963	1.0749D-01	5.4444D-02	1.6193D-01	0.140
1	+6.40	800	-2.266D+21	6.322D+03	-1.001	-17.4	-6.625D-05	2.775D-05	2.975	1.1167D-01	5.4421D-02	1.6609D-01	0.134
1	+6.60	800	-2.369D+21	6.535D+03	-1.001	-17.2	-6.444D-05	2.713D-05	2.987	1.1588D-01	5.4401D-02	1.7028D-01	0.127
1	+6.80	800	-2.473D+21	6.748D+03	-1.001	-17.1	-6.272D-05	2.654D-05	2.998	1.2011D-01	5.4383D-02	1.7449D-01	0.122
1	+7.00	800	-2.579D+21	6.962D+03	-1.001	-16.9	-6.107D-05	2.597D-05	3.009	1.2436D-01	5.4367D-02	1.7873D-01	0.116
1	+7.20	800	-2.686D+21	7.177D+03	-1.001	-16.7	-5.951D-05	2.541D-05	3.019	1.2864D-01	5.4352D-02	1.8299D-01	0.111
1	+7.40	800	-2.795D+21	7.392D+03	-1.001	-16.5	-5.801D-05	2.488D-05	3.029	1.3294D-01	5.4338D-02	1.8727D-01	0.106
1	+7.60	800	-2.906D+21	7.609D+03	-1.001	-16.4	-5.658D-05	2.436D-05	3.039	1.3725D-01	5.4326D-02	1.9158D-01	0.102
1	+7.80	800	-3.018D+21	7.826D+03	-1.001	-16.2	-5.522D-05	2.386D-05	3.048	1.4158D-01	5.4315D-02	1.9590D-01	0.097
1	+8.00	800	-3.132D+21	8.044D+03	-1.001	-16.0	-5.390D-05	2.337D-05	3.057	1.4597D-01	5.4304D-02	2.0028D-01	0.093

x	Eg eV	Atomic-Spacing cm	Debye K	Sound-Velocity cm/s	Num-Density cm-3	Mass-Density g-cm-3									
1	0.050	0.8622	5.4423D-08	618.7	5.653D+05	4.963D+22	2.498D+00								
mc+	mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-				
1.399D+00	1.40D+00	2.938D+00	2.94D+00	2.740D+01	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00				
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT		
1	-5.00	1050	+1.082D+18	2.754D+01	+0.059	+9.4	+1.145D-04	3.612D-07	X45.922	9.8542D-03	6.4032D-02	7.3887D-02	0.005		
1	-4.80	1050	+1.546D+17	2.742D+01	+0.001	+1.4	+1.670D-05	7.644D-09	X47.899	1.0234D-02	6.3964D-02	7.4198D-02	0.000		
1	-4.60	1050	-7.672D+17	2.736D+01	-0.031	-6.9	-8.217D-05	1.847D-07	X46.989	1.0017D-02	6.3884D-02	7.3901D-02	0.003		
1	-4.40	1050	-1.719D+18	2.828D+01	-0.138	-14.1	-1.750D-04	8.659D-07	X42.830	9.4379D-03	6.3792D-02	7.3230D-02	0.012		
1	-4.20	1050	-2.739D+18	3.034D+01	-0.291	-20.1	-2.544D-04	1.963D-06	X36.473	8.6234D-03	6.3685D-02	7.2308D-02	0.029		
1	-4.00	1050	-3.866D+18	3.357D+01	-0.457	-24.8	-3.166D-04	3.364D-06	X29.385	7.6857D-03	6.3561D-02	7.1247D-02	0.050		
1	-3.80	1050	-5.145D+18	3.803D+01	-0.609	-28.1	-3.613D-04	4.964D-06	X22.720	6.7324D-03	6.3419D-02	7.0152D-02	0.074		
1	-3.60	1050	-6.625D+18	4.385D+01	-0.733	-30.3	-3.904D-04	6.685D-06	X17.106	5.8448D-03	6.3256D-02	6.9101D-02	0.102		
1	-3.40	1050	-8.362D+18	5.120D+01	-0.828	-31.7	-4.070D-04	8.483D-06	X12.715	5.0723D-03	6.3070D-02	6.8142D-02	0.131		
1	-3.20	1050	-1.042D+19	6.028D+01	-0.897	-32.4	-4.141D-04	1.034D-05	9.451	4.4391D-03	6.2858D-02	6.7297D-02	0.161		
1	-3.00	1050	-1.288D+19	7.134D+01	-0.944	-32.6	-4.142D-04	1.224D-05	7.111	3.9526D-03	6.2618D-02	6.6571D-02	0.193		
1	-2.80	1050	-1.583D+19	8.469D+01	-0.975	-32.6	-4.094D-04	1.419D-05	5.472	3.6109D-03	6.2347D-02	6.5958D-02	0.226		
1	-2.60	1050	-1.938D+19	1.007D+02	-0.995	-32.3	-4.012D-04	1.620D-05	4.346	3.4084D-03	6.2044D-02	6.5452D-02	0.260		
1	-2.40	1050	-2.365D+19	1.197D+02	-1.008	-31.8	-3.908D-04	1.828D-05	3.581	3.3391D-03	6.1706D-02	6.5045D-02	0.295		
1	-2.20	1050	-2.878D+19	1.421D+02	-1.015	-31.3	-3.790D-04	2.041D-05	3.068	3.3985D-03	6.1333D-02	6.4731D-02	0.331		
1	-2.00	1050	-3.494D+19	1.686D+02	-1.018	-30.7	-3.662D-04	2.261D-05	2.728	3.5842D-03	6.0924D-02	6.4508D-02	0.368		
1	-1.80	1050	-4.233D+19	1.996D+02	-1.020	-30.0	-3.529D-04	2.486D-05	2.505	3.8966D-03	6.0480D-02	6.4377D-02	0.405		
1	-1.60	1050	-5.116D+19	2.358D+02	-1.020	-29.3	-3.392D-04	2.713D-05	2.362	4.3391D-03	6.0000D-02	6.4339D-02	0.443		
1	-1.40	1050	-6.167D+19	2.777D+02	-1.019	-28.7	-3.255D-04	2.943D-05	2.273	4.9174D-03	5.9489D-02	6.4407D-02	0.480		
1	-1.20	1050	-7.415D+19	3.261D+02	-1.018	-28.0	-3.118D-04	3.171D-05	2.220	5.6393D-03	5.8951D-02	6.4590D-02	0.515		
1	-1.00	1050	-8.889D+19	3.815D+02	-1.017	-27.3	-2.983D-04	3.394D-05	2.192	6.5156D-03	5.8389D-02	6.4905D-02	0.549		
1	-0.80	1050	-1.062D+20	4.448D+02	-1.016	-26.6	-2.849D-04	3.611D-05	2.181	7.5582D-03	5.7812D-02	6.5370D-02	0.580		
1	-0.60	1050	-1.264D+20	5.164D+02	-1.014	-25.9	-2.718D-04	3.816D-05	2.182	8.7780D-03	5.7224D-02	6.6002D-02	0.607		
1	-0.40	1050	-1.498D+20	5.969D+02	-1.013	-25.2	-2.591D-04	4.006D-05	2.191	1.0189D-02	5.6633D-02	6.6822D-02	0.630		
1	-0.20	1050	-1.768D+20	6.867D+02	-1.012	-24.5	-2.467D-04	4.179D-05	2.206	1.1803D-02	5.6048D-02	6.7851D-02	0.647		
1	+0.00	1050	-2.076D+20	7.862D+02	-1.011	-23.9	-2.347D-04	4.332D-05	2.225	1.3631D-02	5.5475D-02	6.9106D-02	0.658		
1	+0.20	1050	-2.425D+20	8.956D+02	-1.010	-23.3	-2.232D-04	4.462D-05	2.247	1.5682D-02	5.4921D-02	7.0602D-02	0.664		
1	+0.40	1050	-2.818D+20	1.015D+03	-1.009	-22.7	-2.122D-04	4.568D-05	2.272	1.7963D-02	5.4391D-02	7.2354D-02	0.663		
1	+0.60	1050	-3.257D+20	1.144D+03	-1.008	-22.1	-2.016D-04	4.650D-05	2.298	2.0478D-02	5.3891D-02	7.4369D-02	0.656		
1	+0.80	1050	-3.742D+20	1.282D+03	-1.007	-21.5	-1.916D-04	4.707D-05	2.326	2.3228D-02	5.3423D-02	7.6652D-02	0.645		
1	+1.00	1050	-4.275D+20	1.429D+03	-1.006	-21.0	-1.821D-04	4.740D-05	2.355	2.6215D-02	5.2991D-02	7.9206D-02	0.628		
1	+1.20	1050	-4.857D+20	1.584D+03	-1.006	-20.5	-1.732D-04	4.752D-05	2.384	2.9426D-02	5.2595D-02	8.2021D-02	0.608		
1	+1.40	1050	-5.487D+20	1.748D+03	-1.005	-20.0	-1.647D-04	4.744D-05	2.413	3.2861D-02	5.2235D-02	8.5096D-02	0.585		
1	+1.60	1050	-6.165D+20	1.919D+03	-1.005	-19.5	-1.568D-04	4.718D-05	2.443	3.6512D-02	5.1911D-02	8.8423D-02	0.560		
1	+1.80	1050	-6.890D+20	2.096D+03	-1.004	-19.1	-1.494D-04	4.676D-05	2.472	4.0367D-02	5.1620D-02	9.1987D-02	0.534		
1	+2.00	1050	-7.662D+20	2.279D+03	-1.004	-18.6	-1.424D-04	4.621D-05	2.501	4.4422D-02	5.1361D-02	9.5783D-02	0.507		
1	+2.20	1050	-8.479D+20	2.468D+03	-1.004	-18.2	-1.358D-04	4.555D-05	2.530	4.8659D-02	5.1132D-02	9.9791D-02	0.479		
1	+2.40	1050	-9.340D+20	2.662D+03	-1.003	-17.8	-1.297D-04	4.480D-05	2.558	5.3070D-02	5.0930D-02	1.0400D-01	0.452		
1	+2.60	1050	-1.024D+21	2.861D+03	-1.003	-17.5	-1.240D-04	4.398D-05	2.586	5.7645D-02	5.0725D-02	1.0840D-01	0.426		
1	+2.80	1050	-1.119D+21	3.063D+03	-1.003	-17.1	-1.186D-04	4.311D-05	2.613	6.2372D-02	5.0596D-02	1.1297D-01	0.401		
1	+3.00	1050	-1.218D+21	3.269D+03	-1.002	-16.8	-1.136D-04	4.220D-05	2.640	6.7242D-02	5.0460D-02	1.1770D-01	0.376		
1	+3.20	1050	-1.320D+21	3.479D+03	-1.002	-16.5	-1.089D-04	4.126D-05	2.665	7.2231D-02	5.0341D-02	1.2257D-01	0.353		
1	+3.40	1050	-1.426D+21	3.691D+03	-1.002	-16.2	-1.045D-04	4.032D-05	2.690	7.7368D-02	5.0237D-02	1.2761D-01	0.332		
1	+3.60	1050	-1.536D+21	3.906D+03	-1.002	-15.9	-1.004D-04	3.935D-05	2.715	8.2639D-02	5.0147D-02	1.3279D-01	0.311		
1	+3.80	1050	-1.650D+21	4.124D+03	-1.002	-15.6	-9.650D-05	3.841D-05	2.737	8.7953D-02	5.0068D-02	1.3802D-01	0.292		
1	+4.00	1050	-1.767D+21	4.344D+03	-1.002	-15.4	-9.287D-05	3.746D-05	2.759	9.3396D-02	5.0000D-02	1.4340D-01	0.274		
1	+4.20	1050	-1.887D+21	4.566D+03	-1.001	-15.1	-8.945D-05	3.653D-05	2.781	9.8929D-02	4.9940D-02	1.4887D-01	0.258		
1	+4.40	1050	-2.011D+21	4.790D+03	-1.001	-14.9	-8.623D-05	3.562D-05	2.801	1.0455D-01	4.9888D-02	1.5443D-01	0.242		
1	+4.60	1050	-2.137D+21	5.015D+03	-1.001	-14.7	-8.321D-05	3.472D-05	2.821	1.1024D-01	4.9843D-02	1.6008D-01	0.228		
1	+4.80	1050	-2.267D+21	5.242D+03	-1.001	-14.5	-8.035D-05	3.385D-05	2.840	1.1601D-01	4.9803D-02	1.6581D-01	0.214		
1	+5.00	1050	-2.400D+21	5.471D+03	-1.001	-14.2	-7.766D-05	3.300D-05	2.858	1.2184D-01	4.9768D-02	1.7161D-01	0.202		
1	+5.20	1050	-2.535D+21	5.701D+03	-1.001	-14.0	-7.512D-05	3.217D-05	2.876	1.2773D-01	4.9737D-02	1.7747D-01	0.190		
1	+5.40	1050	-2.674D+21	5.932D+03	-1.001	-13.9	-7.272D-05	3.137D-05	2.892	1.3368D-01	4.9710D-02	1.8339D-01	0.180		
1	+5.60	1050	-2.815D+21	6.164D+03	-1.001	-13.7	-7.044D-05	3.058D-05	2.910	1.3975D-01	4.9687D-02	1.8944D-01	0.170		
1	+5.80	1050	-2.959D+21	6.398D+03	-1.001	-13.5	-6.829D-05	2.984D-05	2.923	1.4573D-01	4.9666D-02	1.9539D-01	0.160		
1	+6.00	1050	-3.106D+21	6.633D+03	-1.001	-13.3	-6.625D-05	2.911D-05	2.938	1.5182D-01	4.9647D-02	2.0146D-01	0.152		
1	+6.20	1050	-3.255D+21	6.868D+03	-1.001	-13.2	-6.432D-05	2.841D-05	2.952	1.5795D-01	4.9630D-02	2.0758D-01	0.144		
1	+6.40	1050	-3.407D+21	7.105D+03	-1.001	-13.0	-6.248D-05	2.774D-05	2.965	1.6412D-01	4.9615D-02	2.1373D-01	0.136		
1	+6.60	1050	-3.561D+21	7.342D+03	-1.001	-12.9	-6.074D-05	2.708D-05	2.977	1.7032D-01	4.9602D-02	2.1992D-01	0.129		
1	+6.80	1050	-3.718D+21	7.580D+03	-1.001	-12.7	-5.908D-05	2.645D-05	2.989	1.7656D-01	4.9590D-02	2.2615D-01	0.123		
1	+7.00	1050	-3.878D+21	7.819D+03	-1.000	-12.6	-5.749D-05	2.585D-05	3.001	1.8282D-01	4.9580D-02	2.3240D-01	0.117		
1	+7.20	1050	-4.039D+21	8.059D+03	-1.000	-12.5	-5.599D-05	2.526D-05	3.012	1.8911D-01	4.9570D-02	2.3868D-01	0.111		
1	+7.40	1050	-4.203D+21	8.299D+03	-1.000	-12.3	-5.455D-05	2.470D-05	3.022	1.9543D-01	4.9561D-02	2.4499D-01	0.106		
1	+7.60	1050	-4.370D+21	8.540D+03	-1.000	-12.2	-5.318D-05	2.415D-05	3.032	2.0177D-01	4.9553D-02	2.5132D-01	0.101		
1	+7.80	1050	-4.538D+21	8.782D+03	-1.000	-12.1	-5.187D-05	2.363D-05	3.042	2.0813D-01	4.9546D-02	2.5768D-01	0.096		
1	+8.00	1050	-4.709D+21	9.025D+03	-1.000	-12.0	-5.062D-05	2.313D-05	3.049	2.1443D-01	4.9539D-02	2.6396D-01	0.092		

x	Eg eV	Atomic-Spacing cm	Debye K	Sound-Velocity cm/s	Num-Density cm-3	Mass-Density g-cm-3								
mc+	mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-			
1.399D+00	1.40D+00	2.938D+00	2.94D+00	2.740D+01	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00			
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT	
1	-5.00	1300	+3.853D+19	1.598D+02	+0.834	+21.6	+3.254D-04	1.692D-05	8.960	1.3811D-02	5.6729D-02	7.0539D-02	0.312	
1	-4.80	1300	+3.076D+19	1.378D+02	+0.747	+20.9	+3.155D-04	1.372D-05	%11.829	1.5727D-02	5.6681D-02	7.2408D-02	0.246	
1	-4.60	1300	+2.411D+19	1.202D+02	+0.631	+19.6	+2.957D-04	1.051D-05	%15.539	1.8017D-02	5.6625D-02	7.4642D-02	0.183	
1	-4.40	1300	+1.834D+19	1.065D+02	+0.487	+17.6	+2.636D-04	7.402D-06	%20.012	2.0565D-02	5.6560D-02	7.7125D-02	0.125	
1	-4.20	1300	+1.326D+19	9.656D+01	+0.325	+14.8	+2.173D-04	4.558D-06	%24.878	2.3172D-02	5.6485D-02	7.9657D-02	0.074	
1	-4.00	1300	+8.665D+18	9.014D+01	+0.168	+10.9	+1.566D-04	2.209D-06	%29.396	2.5560D-02	5.6397D-02	8.1957D-02	0.035	
1	-3.80	1300	+4.400D+18	8.730D+01	+0.049	+6.1	+8.412D-05	6.177D-07	%32.561	2.7421D-02	5.6296D-02	8.3717D-02	0.010	
1	-3.60	1300	+3.012D+17	8.857D+01	+0.000	+0.5	+5.801D-06	2.981D-09	%33.416	2.8550D-02	5.6180D-02	8.4730D-02	0.000	
1	-3.40	1300	-3.786D+18	8.720D+01	-0.037	-5.3	-7.271D-05	4.610D-07	%32.854	2.7635D-02	5.6047D-02	8.3683D-02	0.007	
1	-3.20	1300	-8.016D+18	8.949D+01	-0.147	-10.3	-1.465D-04	1.920D-06	%29.975	2.5876D-02	5.5895D-02	8.1771D-02	0.031	
1	-3.00	1300	-1.255D+19	9.538D+01	-0.301	-14.3	-2.091D-04	4.172D-06	%25.591	2.3547D-02	5.5722D-02	7.9269D-02	0.068	
1	-2.80	1300	-1.755D+19	1.048D+02	-0.463	-17.3	-2.577D-04	6.959D-06	%20.722	2.0953D-02	5.5526D-02	7.6479D-02	0.118	
1	-2.60	1300	-2.321D+19	1.179D+02	-0.611	-19.4	-2.918D-04	1.004D-05	%16.159	1.8382D-02	5.5305D-02	7.3687D-02	0.177	
1	-2.40	1300	-2.971D+19	1.349D+02	-0.731	-20.7	-3.133D-04	1.324D-05	%12.325	1.6044D-02	5.5058D-02	7.1103D-02	0.242	
1	-2.20	1300	-3.730D+19	1.562D+02	-0.823	-21.5	-3.245D-04	1.645D-05	9.335	1.4068D-02	5.4784D-02	6.8852D-02	0.311	
1	-2.00	1300	-4.621D+19	1.822D+02	-0.888	-21.9	-3.279D-04	1.960D-05	7.117	1.2512D-02	5.4481D-02	6.6992D-02	0.380	
1	-1.80	1300	-5.674D+19	2.135D+02	-0.934	-21.9	-3.258D-04	2.266D-05	5.530	1.1389D-02	5.4150D-02	6.5538D-02	0.450	
1	-1.60	1300	-6.918D+19	2.506D+02	-0.964	-21.8	-3.198D-04	2.563D-05	4.423	1.0690D-02	5.3792D-02	6.4482D-02	0.517	
1	-1.40	1300	-8.391D+19	2.941D+02	-0.984	-21.5	-3.112D-04	2.849D-05	3.664	1.0397D-02	5.3407D-02	6.3804D-02	0.581	
1	-1.20	1300	-1.013D+20	3.449D+02	-0.996	-21.2	-3.010D-04	3.124D-05	3.153	1.0490D-02	5.2999D-02	6.3489D-02	0.640	
1	-1.00	1300	-1.217D+20	4.035D+02	-1.004	-20.8	-2.897D-04	3.386D-05	2.814	1.0951D-02	5.2571D-02	6.3522D-02	0.693	
1	-0.80	1300	-1.457D+20	4.707D+02	-1.008	-20.3	-2.778D-04	3.633D-05	2.592	1.1769D-02	5.2128D-02	6.3897D-02	0.739	
1	-0.60	1300	-1.736D+20	5.471D+02	-1.011	-19.9	-2.657D-04	3.862D-05	2.451	1.2934D-02	5.1675D-02	6.4610D-02	0.777	
1	-0.40	1300	-2.060D+20	6.333D+02	-1.011	-19.4	-2.536D-04	4.072D-05	2.364	1.4444D-02	5.1218D-02	6.5662D-02	0.806	
1	-0.20	1300	-2.432D+20	7.298D+02	-1.012	-18.9	-2.416D-04	4.260D-05	2.315	1.6298D-02	5.0763D-02	6.7061D-02	0.826	
1	+0.00	1300	-2.857D+20	8.370D+02	-1.011	-18.5	-2.299D-04	4.424D-05	2.291	1.8496D-02	5.0316D-02	6.8812D-02	0.836	
1	+0.20	1300	-3.339D+20	9.549D+02	-1.011	-18.0	-2.186D-04	4.562D-05	2.284	2.1038D-02	4.9883D-02	7.0921D-02	0.836	
1	+0.40	1300	-3.881D+20	1.084D+03	-1.010	-17.6	-2.077D-04	4.673D-05	2.289	2.3926D-02	4.9467D-02	7.3394D-02	0.828	
1	+0.60	1300	-4.485D+20	1.223D+03	-1.009	-17.2	-1.972D-04	4.757D-05	2.302	2.7158D-02	4.9075D-02	7.6232D-02	0.811	
1	+0.80	1300	-5.154D+20	1.372D+03	-1.008	-16.8	-1.873D-04	4.815D-05	2.321	3.0728D-02	4.8708D-02	7.9436D-02	0.788	
1	+1.00	1300	-5.889D+20	1.532D+03	-1.008	-16.4	-1.779D-04	4.846D-05	2.344	3.4635D-02	4.8368D-02	8.3003D-02	0.759	
1	+1.20	1300	-6.690D+20	1.700D+03	-1.007	-16.0	-1.690D-04	4.855D-05	2.369	3.8861D-02	4.8057D-02	8.6918D-02	0.726	
1	+1.40	1300	-7.558D+20	1.878D+03	-1.006	-15.6	-1.606D-04	4.842D-05	2.396	4.3399D-02	4.7774D-02	9.1173D-02	0.690	
1	+1.60	1300	-8.492D+20	2.063D+03	-1.006	-15.3	-1.527D-04	4.810D-05	2.424	4.8239D-02	4.7520D-02	9.5759D-02	0.653	
1	+1.80	1300	-9.491D+20	2.255D+03	-1.005	-14.9	-1.453D-04	4.762D-05	2.453	5.3362D-02	4.7293D-02	1.0065D-01	0.615	
1	+2.00	1300	-1.055D+21	2.454D+03	-1.005	-14.6	-1.384D-04	4.699D-05	2.482	5.8763D-02	4.7091D-02	1.0585D-01	0.577	
1	+2.20	1300	-1.168D+21	2.659D+03	-1.004	-14.3	-1.319D-04	4.626D-05	2.511	6.4416D-02	4.6913D-02	1.1133D-01	0.540	
1	+2.40	1300	-1.287D+21	2.870D+03	-1.004	-14.0	-1.258D-04	4.543D-05	2.540	7.0309D-02	4.6756D-02	1.1707D-01	0.505	
1	+2.60	1300	-1.411D+21	3.085D+03	-1.004	-13.7	-1.201D-04	4.453D-05	2.568	7.6427D-02	4.6619D-02	1.2305D-01	0.470	
1	+2.80	1300	-1.542D+21	3.305D+03	-1.003	-13.4	-1.148D-04	4.358D-05	2.596	8.2753D-02	4.6499D-02	1.2925D-01	0.438	
1	+3.00	1300	-1.677D+21	3.528D+03	-1.003	-13.2	-1.099D-04	4.260D-05	2.623	8.9275D-02	4.6394D-02	1.3567D-01	0.408	
1	+3.20	1300	-1.819D+21	3.755D+03	-1.003	-12.9	-1.052D-04	4.159D-05	2.649	9.5963D-02	4.6303D-02	1.4227D-01	0.380	
1	+3.40	1300	-1.965D+21	3.985D+03	-1.003	-12.7	-1.009D-04	4.057D-05	2.675	1.0284D-01	4.6225D-02	1.4907D-01	0.354	
1	+3.60	1300	-2.117D+21	4.218D+03	-1.002	-12.5	-9.682D-05	3.954D-05	2.701	1.0990D-01	4.6156D-02	1.5605D-01	0.329	
1	+3.80	1300	-2.273D+21	4.453D+03	-1.002	-12.3	-9.301D-05	3.852D-05	2.724	1.1703D-01	4.6097D-02	1.6313D-01	0.307	
1	+4.00	1300	-2.434D+21	4.691D+03	-1.002	-12.1	-8.943D-05	3.752D-05	2.748	1.2433D-01	4.6045D-02	1.7038D-01	0.286	
1	+4.20	1300	-2.600D+21	4.930D+03	-1.002	-11.9	-8.607D-05	3.653D-05	2.770	1.3175D-01	4.6000D-02	1.7775D-01	0.267	
1	+4.40	1300	-2.770D+21	5.172D+03	-1.002	-11.7	-8.292D-05	3.556D-05	2.792	1.3928D-01	4.5961D-02	1.8524D-01	0.250	
1	+4.60	1300	-2.944D+21	5.415D+03	-1.002	-11.5	-7.995D-05	3.461D-05	2.812	1.4690D-01	4.5927D-02	1.9283D-01	0.233	
1	+4.80	1300	-3.123D+21	5.660D+03	-1.002	-11.3	-7.715D-05	3.369D-05	2.832	1.5463D-01	4.5898D-02	2.0052D-01	0.218	
1	+5.00	1300	-3.306D+21	5.907D+03	-1.001	-11.2	-7.452D-05	3.280D-05	2.851	1.6244D-01	4.5872D-02	2.0831D-01	0.205	
1	+5.20	1300	-3.493D+21	6.154D+03	-1.001	-11.0	-7.203D-05	3.193D-05	2.869	1.7032D-01	4.5849D-02	2.1617D-01	0.192	
1	+5.40	1300	-3.684D+21	6.403D+03	-1.001	-10.9	-6.969D-05	3.109D-05	2.886	1.7828D-01	4.5829D-02	2.2411D-01	0.180	
1	+5.60	1300	-3.878D+21	6.653D+03	-1.001	-10.7	-6.745D-05	3.027D-05	2.905	1.8644D-01	4.5812D-02	2.3225D-01	0.169	
1	+5.80	1300	-4.077D+21	6.904D+03	-1.001	-10.6	-6.537D-05	2.950D-05	2.919	1.9438D-01	4.5796D-02	2.4018D-01	0.160	
1	+6.00	1300	-4.279D+21	7.156D+03	-1.001	-10.5	-6.338D-05	2.875D-05	2.934	2.0252D-01	4.5783D-02	2.4830D-01	0.151	
1	+6.20	1300	-4.484D+21	7.409D+03	-1.001	-10.3	-6.150D-05	2.802D-05	2.948	2.1071D-01	4.5771D-02	2.5648D-01	0.142	
1	+6.40	1300	-4.694D+21	7.663D+03	-1.001	-10.2	-5.971D-05	2.732D-05	2.962	2.1894D-01	4.5760D-02	2.6470D-01	0.134	
1	+6.60	1300	-4.906D+21	7.917D+03	-1.001	-10.1	-5.802D-05	2.665D-05	2.975	2.2721D-01	4.5750D-02	2.7296D-01	0.127	
1	+6.80	1300	-5.122D+21	8.173D+03	-1.001	-10.0	-5.641D-05	2.600D-05	2.987	2.3552D-01	4.5741D-02	2.8126D-01	0.120	
1	+7.00	1300	-5.342D+21	8.429D+03	-1.001	-9.9	-5.487D-05	2.538D-05	2.999	2.4386D-01	4.5734D-02	2.8960D-01	0.114	
1	+7.20	1300	-5.565D+21	8.685D+03	-1.001	-9.8	-5.341D-05	2.478D-05	3.011	2.5224D-01	4.5727D-02	2.9797D-01	0.108	
1	+7.40	1300	-5.791D+21	8.943D+03	-1.001	-9.6	-5.202D-05	2.420D-05	3.021	2.6064D-01	4.5720D-02	3.0636D-01	0.103	
1	+7.60	1300	-6.020D+21	9.201D+03	-1.001	-9.5	-5.070D-05	2.365D-05	3.032	2.6907D-01	4.5714D-02	3.1479D-01	0.098	
1	+7.80	1300	-6.252D+21	9.459D+03	-1.001	-9.5	-4.943D-05	2.311D-05	3.042	2.7756D-01	4.5709D-02	3.2327D-01	0.093	
1	+8.00	1300	-6.487D+21	9.718D+03	-1.001	-9.4	-4.822D-05	2.260D-05	3.051	2.8600D-01	4.5704D-02	3.3171D-01	0.089	

x		Eg	Atomic-Spacing		Debye Sound-Velocity		Num-Density		Mass-Density				
		eV	cm	K	cm/s	cm-3	cm-3	g-cm-3					
1 0.100		1.0176	5.4537D-08	594.9	5.446D+05	4.932D+22	2.665D+00						
mc+		mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-	
1.399D+00		1.40D+00	2.938D+00	2.94D+00	2.740D+01	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00	
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT
1	-5.00	300	-2.786D+17	9.263D+00	-1.047	-217.4	-6.197D-04	3.557D-06	1.987	4.0970D-05	9.4852D-02	9.4893D-02	0.011
1	-4.80	300	-3.400D+17	1.111D+01	-1.042	-212.6	-6.041D-04	4.054D-06	1.991	4.9224D-05	9.4405D-02	9.4455D-02	0.013
1	-4.60	300	-4.151D+17	1.330D+01	-1.038	-207.7	-5.887D-04	4.608D-06	1.995	5.9068D-05	9.3898D-02	9.3957D-02	0.015
1	-4.40	300	-5.066D+17	1.589D+01	-1.034	-202.5	-5.733D-04	5.224D-06	2.001	7.0789D-05	9.3326D-02	9.3397D-02	0.017
1	-4.20	300	-6.181D+17	1.895D+01	-1.031	-197.3	-5.581D-04	5.904D-06	2.008	8.4718D-05	9.2679D-02	9.2763D-02	0.019
1	-4.00	300	-7.541D+17	2.256D+01	-1.028	-191.9	-5.430D-04	6.652D-06	2.016	1.0125D-04	9.1953D-02	9.2054D-02	0.022
1	-3.80	300	-9.198D+17	2.680D+01	-1.025	-186.5	-5.280D-04	7.470D-06	2.025	1.2801D-04	9.1145D-02	9.1266D-02	0.025
1	-3.60	300	-1.121D+18	3.176D+01	-1.023	-180.9	-5.131D-04	8.362D-06	2.036	1.4394D-04	9.0249D-02	9.0393D-02	0.028
1	-3.40	300	-1.367D+18	3.755D+01	-1.022	-175.2	-4.984D-04	9.326D-06	2.049	1.7124D-04	8.9264D-02	8.9435D-02	0.031
1	-3.20	300	-1.665D+18	4.429D+01	-1.021	-169.5	-4.837D-04	1.036D-05	2.063	2.0339D-04	8.8186D-02	8.8389D-02	0.035
1	-3.00	300	-2.028D+18	5.212D+01	-1.021	-163.8	-4.692D-04	1.147D-05	2.078	2.4118D-04	8.7015D-02	8.7256D-02	0.039
1	-2.80	300	-2.467D+18	6.119D+01	-1.021	-158.0	-4.547D-04	1.265D-05	2.096	2.8549D-04	8.5754D-02	8.6039D-02	0.044
1	-2.60	300	-3.000D+18	7.164D+01	-1.021	-152.2	-4.404D-04	1.389D-05	2.115	3.3737D-04	8.4405D-02	8.4743D-02	0.049
1	-2.40	300	-3.644D+18	8.367D+01	-1.022	-146.5	-4.261D-04	1.519D-05	2.136	3.9795D-04	8.2977D-02	8.3375D-02	0.055
1	-2.20	300	-4.422D+18	9.747D+01	-1.024	-140.9	-4.120D-04	1.654D-05	2.159	4.6853D-04	8.1475D-02	8.1943D-02	0.061
1	-2.00	300	-5.358D+18	1.132D+02	-1.025	-135.3	-3.979D-04	1.793D-05	2.184	5.5054D-04	7.9910D-02	8.0461D-02	0.067
1	-1.80	300	-6.482D+18	1.312D+02	-1.027	-129.8	-3.839D-04	1.934D-05	2.210	6.4566D-04	7.8296D-02	7.8942D-02	0.074
1	-1.60	300	-7.827D+18	1.517D+02	-1.029	-124.5	-3.700D-04	2.077D-05	2.238	7.5557D-04	7.6647D-02	7.7402D-02	0.080
1	-1.40	300	-9.431D+18	1.748D+02	-1.031	-119.3	-3.563D-04	2.219D-05	2.267	8.8218D-04	7.4976D-02	7.5859D-02	0.088
1	-1.20	300	-1.133D+19	2.009D+02	-1.033	-114.3	-3.426D-04	2.359D-05	2.297	1.0275D-03	7.3301D-02	7.4329D-02	0.095
1	-1.00	300	-1.358D+19	2.303D+02	-1.035	-109.5	-3.291D-04	2.494D-05	2.328	1.1936D-03	7.1639D-02	7.2832D-02	0.103
1	-0.80	300	-1.622D+19	2.632D+02	-1.036	-104.9	-3.158D-04	2.624D-05	2.360	1.3827D-03	6.9999D-02	7.1382D-02	0.110
1	-0.60	300	-1.931D+19	2.998D+02	-1.037	-100.5	-3.026D-04	2.746D-05	2.392	1.5967D-03	6.8400D-02	6.9997D-02	0.118
1	-0.40	300	-2.288D+19	3.404D+02	-1.038	-96.4	-2.897D-04	2.857D-05	2.425	1.8377D-03	6.6854D-02	6.8692D-02	0.125
1	-0.20	300	-2.700D+19	3.851D+02	-1.038	-92.4	-2.771D-04	2.958D-05	2.458	2.1069D-03	6.5372D-02	6.7479D-02	0.132
1	+0.00	300	-3.171D+19	4.341D+02	-1.038	-88.7	-2.649D-04	3.046D-05	2.490	2.4058D-03	6.3962D-02	6.6368D-02	0.138
1	+0.20	300	-3.704D+19	4.873D+02	-1.038	-85.3	-2.530D-04	3.119D-05	2.521	2.7352D-03	6.2631D-02	6.5366D-02	0.143
1	+0.40	300	-4.304D+19	5.448D+02	-1.038	-82.0	-2.416D-04	3.179D-05	2.552	3.0955D-03	6.1384D-02	6.4480D-02	0.148
1	+0.60	300	-4.974D+19	6.065D+02	-1.037	-78.9	-2.306D-04	3.224D-05	2.582	3.4864D-03	6.0224D-02	6.3710D-02	0.152
1	+0.80	300	-5.715D+19	6.722D+02	-1.036	-76.1	-2.200D-04	3.255D-05	2.611	3.9078D-03	5.9151D-02	6.3058D-02	0.155
1	+1.00	300	-6.529D+19	7.417D+02	-1.035	-73.4	-2.100D-04	3.272D-05	2.640	4.3584D-03	5.8164D-02	6.2522D-02	0.157
1	+1.20	300	-7.417D+19	8.147D+02	-1.034	-70.9	-2.005D-04	3.276D-05	2.667	4.8371D-03	5.7261D-02	6.2098D-02	0.158
1	+1.40	300	-8.380D+19	8.911D+02	-1.033	-68.6	-1.916D-04	3.270D-05	2.693	5.3421D-03	5.6440D-02	6.1782D-02	0.159
1	+1.60	300	-9.415D+19	9.705D+02	-1.032	-66.4	-1.831D-04	3.253D-05	2.718	5.8727D-03	5.5695D-02	6.1568D-02	0.158
1	+1.80	300	-1.052D+20	1.053D+03	-1.031	-64.4	-1.751D-04	3.227D-05	2.742	6.4264D-03	5.5023D-02	6.1450D-02	0.158
1	+2.00	300	-1.170D+20	1.137D+03	-1.029	-62.5	-1.676D-04	3.194D-05	2.765	7.0019D-03	5.4419D-02	6.1421D-02	0.156
1	+2.20	300	-1.295D+20	1.224D+03	-1.028	-60.7	-1.605D-04	3.155D-05	2.787	7.5976D-03	5.3877D-02	6.1474D-02	0.154
1	+2.40	300	-1.426D+20	1.314D+03	-1.027	-59.0	-1.539D-04	3.112D-05	2.808	8.2121D-03	5.3392D-02	6.1604D-02	0.152
1	+2.60	300	-1.565D+20	1.405D+03	-1.026	-57.5	-1.477D-04	3.064D-05	2.828	8.8441D-03	5.2959D-02	6.1803D-02	0.149
1	+2.80	300	-1.709D+20	1.497D+03	-1.025	-56.1	-1.419D-04	3.014D-05	2.847	9.4924D-03	5.2574D-02	6.2066D-02	0.146
1	+3.00	300	-1.860D+20	1.592D+03	-1.024	-54.7	-1.364D-04	2.961D-05	2.865	1.0154D-02	5.2231D-02	6.2385D-02	0.142
1	+3.20	300	-2.016D+20	1.688D+03	-1.023	-53.5	-1.312D-04	2.907D-05	2.883	1.0833D-02	5.1926D-02	6.2760D-02	0.139
1	+3.40	300	-2.179D+20	1.785D+03	-1.022	-52.3	-1.264D-04	2.852D-05	2.901	1.1528D-02	5.1656D-02	6.3184D-02	0.135
1	+3.60	300	-2.346D+20	1.884D+03	-1.021	-51.2	-1.219D-04	2.798D-05	2.916	1.2228D-02	5.1416D-02	6.3643D-02	0.132
1	+3.80	300	-2.520D+20	1.984D+03	-1.020	-50.1	-1.176D-04	2.743D-05	2.931	1.2943D-02	5.1203D-02	6.4145D-02	0.128
1	+4.00	300	-2.698D+20	2.085D+03	-1.019	-49.2	-1.136D-04	2.688D-05	2.945	1.3669D-02	5.1014D-02	6.4683D-02	0.125
1	+4.20	300	-2.882D+20	2.187D+03	-1.019	-48.3	-1.098D-04	2.635D-05	2.959	1.4406D-02	5.0846D-02	6.5252D-02	0.121
1	+4.40	300	-3.071D+20	2.290D+03	-1.018	-47.4	-1.062D-04	2.582D-05	2.972	1.5152D-02	5.0697D-02	6.5849D-02	0.118
1	+4.60	300	-3.264D+20	2.395D+03	-1.017	-46.6	-1.028D-04	2.530D-05	2.984	1.5908D-02	5.0565D-02	6.6473D-02	0.114
1	+4.80	300	-3.462D+20	2.500D+03	-1.016	-45.8	-9.958D-05	2.479D-05	2.996	1.6673D-02	5.0447D-02	6.7120D-02	0.111
1	+5.00	300	-3.665D+20	2.606D+03	-1.016	-45.1	-9.655D-05	2.429D-05	3.007	1.7447D-02	5.0342D-02	6.7789D-02	0.108
1	+5.20	300	-3.872D+20	2.713D+03	-1.015	-44.4	-9.367D-05	2.381D-05	3.018	1.8229D-02	5.0249D-02	6.8477D-02	0.104
1	+5.40	300	-4.084D+20	2.821D+03	-1.014	-43.7	-9.095D-05	2.334D-05	3.028	1.9018D-02	5.0165D-02	6.9183D-02	0.101
1	+5.60	300	-4.299D+20	2.930D+03	-1.014	-43.1	-8.837D-05	2.288D-05	3.038	1.9815D-02	5.0090D-02	6.9905D-02	0.098
1	+5.80	300	-4.519D+20	3.039D+03	-1.013	-42.5	-8.591D-05	2.243D-05	3.047	2.0619D-02	5.0023D-02	7.0643D-02	0.095
1	+6.00	300	-4.743D+20	3.150D+03	-1.013	-42.0	-8.358D-05	2.200D-05	3.056	2.1430D-02	4.9963D-02	7.1393D-02	0.092
1	+6.20	300	-4.971D+20	3.261D+03	-1.012	-41.4	-8.135D-05	2.158D-05	3.065	2.2247D-02	4.9909D-02	7.2157D-02	0.090
1	+6.40	300	-5.203D+20	3.373D+03	-1.012	-40.9	-7.924D-05	2.118D-05	3.073	2.3071D-02	4.9860D-02	7.2931D-02	0.087
1	+6.60	300	-5.439D+20	3.485D+03	-1.011	-40.5	-7.722D-05	2.078D-05	3.080	2.3901D-02	4.9816D-02	7.3717D-02	0.085
1	+6.80	300	-5.679D+20	3.599D+03	-1.011	-40.0	-7.529D-05	2.040D-05	3.088	2.4736D-02	4.9776D-02	7.4513D-02	0.082
1	+7.00	300	-5.922D+20	3.713D+03	-1.010	-39.5	-7.345D-05	2.003D-05	3.095	2.5577D-02	4.9740D-02	7.5318D-02	0.080
1	+7.20	300	-6.169D+20	3.827D+03	-1.010	-39.1	-7.169D-05	1.967D-05	3.101	2.6424D-02	4.9707D-02	7.6131D-02	0.078
1	+7.40	300	-6.419D+20	3.942D+03	-1.010	-38.7	-7.001D-05	1.932D-05	3.108	2.7276D-02	4.9677D-02	7.6953D-02	0.075
1	+7.60	300	-6.673D+20	4.058D+03	-1.009	-38.3	-6.840D-05	1.897D-05	3.114	2.8133D-02	4.9650D-02	7.7782D-02	0.073
1	+7.80	300	-6.931D+20	4.175D+03	-1.009	-37.9	-6.686D-05	1.866D-05	3.120	2.8994D-02	4.9625D-02	7.8619D-02	0.071
1	+8.00	300	-7.192D+20	4.292D+03	-1.009	-37.6	-6.538D-05	1.834D-05	3.125	2.9860D-02	4.9602D-02	7.9462D-02	0.069

x	Eg eV	Atomic-Spacing cm	Debye K	Sound-Velocity cm/s	Num-Density cm ⁻³	Mass-Density g-cm ⁻³							
1.399D+00	1.40D+00	2.938D+00	2.94D+00	2.740D+01	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00		
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT
1	-5.00	550	-6.914D+17	9.933D+00	-1.075	-96.4	-6.128D-04	3.730D-06	2.002	8.1136D-05	7.0057D-02	7.0138D-02	0.029
1	-4.80	550	-8.441D+17	1.200D+01	-1.069	-94.9	-5.967D-04	4.272D-06	1.995	9.7701D-05	6.9882D-02	6.9980D-02	0.034
1	-4.60	550	-1.030D+18	1.447D+01	-1.064	-93.3	-5.807D-04	4.881D-06	1.992	1.1767D-04	6.9680D-02	6.9798D-02	0.038
1	-4.40	550	-1.257D+18	1.744D+01	-1.059	-91.7	-5.648D-04	5.563D-06	1.991	1.4170D-04	6.9448D-02	6.9590D-02	0.044
1	-4.20	550	-1.534D+18	2.099D+01	-1.054	-90.0	-5.490D-04	6.324D-06	1.991	1.7054D-04	6.9186D-02	6.9356D-02	0.050
1	-4.00	550	-1.872D+18	2.521D+01	-1.049	-88.2	-5.332D-04	7.169D-06	1.993	2.0508D-04	6.8882D-02	6.9087D-02	0.057
1	-3.80	550	-2.283D+18	3.025D+01	-1.044	-86.3	-5.176D-04	8.104D-06	1.996	2.4640D-04	6.8537D-02	6.8784D-02	0.065
1	-3.60	550	-2.784D+18	3.622D+01	-1.040	-84.5	-5.021D-04	9.132D-06	2.001	2.9572D-04	6.8148D-02	6.8444D-02	0.073
1	-3.40	550	-3.393D+18	4.329D+01	-1.036	-82.5	-4.868D-04	1.026D-05	2.006	3.5448D-04	6.7711D-02	6.8065D-02	0.083
1	-3.20	550	-4.134D+18	5.165D+01	-1.032	-80.5	-4.715D-04	1.148D-05	2.013	4.2440D-04	6.7222D-02	6.7646D-02	0.093
1	-3.00	550	-5.034D+18	6.150D+01	-1.029	-78.5	-4.564D-04	1.281D-05	2.021	5.0739D-04	6.6679D-02	6.7186D-02	0.105
1	-2.80	550	-6.125D+18	7.307D+01	-1.026	-76.4	-4.414D-04	1.423D-05	2.031	6.0571D-04	6.6079D-02	6.6685D-02	0.117
1	-2.60	550	-7.447D+18	8.662D+01	-1.023	-74.3	-4.265D-04	1.575D-05	2.042	7.2192D-04	6.5422D-02	6.6144D-02	0.131
1	-2.40	550	-9.046D+18	1.024D+02	-1.021	-72.2	-4.117D-04	1.737D-05	2.055	8.5906D-04	6.4707D-02	6.5566D-02	0.146
1	-2.20	550	-1.098D+19	1.209D+02	-1.020	-70.1	-3.971D-04	1.906D-05	2.069	1.0205D-03	6.3936D-02	6.4957D-02	0.161
1	-2.00	550	-1.330D+19	1.422D+02	-1.018	-68.0	-3.827D-04	2.082D-05	2.085	1.2099D-03	6.3113D-02	6.4323D-02	0.178
1	-1.80	550	-1.609D+19	1.669D+02	-1.017	-65.9	-3.683D-04	2.264D-05	2.102	1.4318D-03	6.2240D-02	6.3672D-02	0.196
1	-1.60	550	-1.943D+19	1.953D+02	-1.016	-63.8	-3.542D-04	2.450D-05	2.121	1.6906D-03	6.1325D-02	6.3015D-02	0.214
1	-1.40	550	-2.341D+19	2.279D+02	-1.016	-61.7	-3.402D-04	2.638D-05	2.142	1.9917D-03	6.0375D-02	6.2367D-02	0.233
1	-1.20	550	-2.814D+19	2.650D+02	-1.015	-59.7	-3.264D-04	2.824D-05	2.164	2.3404D-03	5.9400D-02	6.1740D-02	0.252
1	-1.00	550	-3.372D+19	3.072D+02	-1.015	-57.7	-3.129D-04	3.007D-05	2.187	2.7425D-03	5.8410D-02	6.1152D-02	0.270
1	-0.80	550	-4.028D+19	3.549D+02	-1.015	-55.8	-2.995D-04	3.185D-05	2.212	3.2041D-03	5.7415D-02	6.0619D-02	0.289
1	-0.60	550	-4.793D+19	4.085D+02	-1.015	-54.0	-2.865D-04	3.353D-05	2.238	3.7309D-03	5.6428D-02	6.0159D-02	0.307
1	-0.40	550	-5.681D+19	4.683D+02	-1.015	-52.2	-2.738D-04	3.509D-05	2.265	4.3284D-03	5.5459D-02	5.9787D-02	0.323
1	-0.20	550	-6.703D+19	5.345D+02	-1.015	-50.5	-2.614D-04	3.652D-05	2.293	5.0020D-03	5.4517D-02	5.9519D-02	0.337
1	+0.00	550	-7.871D+19	6.075D+02	-1.014	-48.9	-2.494D-04	3.778D-05	2.321	5.7558D-03	5.3613D-02	5.9369D-02	0.350
1	+0.20	550	-9.195D+19	6.873D+02	-1.014	-47.3	-2.378D-04	3.886D-05	2.350	6.5931D-03	5.2754D-02	5.9347D-02	0.360
1	+0.40	550	-1.068D+20	7.738D+02	-1.014	-45.8	-2.267D-04	3.975D-05	2.380	7.5161D-03	5.1945D-02	5.9461D-02	0.368
1	+0.60	550	-1.235D+20	8.670D+02	-1.013	-44.4	-2.160D-04	4.045D-05	2.410	8.5267D-03	5.1190D-02	5.9717D-02	0.373
1	+0.80	550	-1.419D+20	9.667D+02	-1.013	-43.1	-2.058D-04	4.096D-05	2.439	9.6226D-03	5.0493D-02	6.0116D-02	0.375
1	+1.00	550	-1.621D+20	1.072D+03	-1.013	-41.8	-1.962D-04	4.128D-05	2.468	1.0803D-02	4.9854D-02	6.0657D-02	0.374
1	+1.20	550	-1.841D+20	1.184D+03	-1.012	-40.6	-1.871D-04	4.142D-05	2.497	1.2067D-02	4.9274D-02	6.1341D-02	0.371
1	+1.40	550	-2.080D+20	1.301D+03	-1.012	-39.5	-1.784D-04	4.141D-05	2.526	1.3411D-02	4.8749D-02	6.2160D-02	0.366
1	+1.60	550	-2.337D+20	1.423D+03	-1.012	-38.4	-1.703D-04	4.126D-05	2.554	1.4830D-02	4.8278D-02	6.3109D-02	0.360
1	+1.80	550	-2.612D+20	1.549D+03	-1.011	-37.4	-1.626D-04	4.098D-05	2.581	1.6323D-02	4.7859D-02	6.4182D-02	0.351
1	+2.00	550	-2.905D+20	1.680D+03	-1.011	-36.5	-1.554D-04	4.059D-05	2.608	1.7884D-02	4.7486D-02	6.5370D-02	0.342
1	+2.20	550	-3.214D+20	1.815D+03	-1.010	-35.6	-1.487D-04	4.012D-05	2.634	1.9509D-02	4.7156D-02	6.6665D-02	0.331
1	+2.40	550	-3.541D+20	1.952D+03	-1.010	-34.8	-1.424D-04	3.957D-05	2.660	2.1194D-02	4.6866D-02	6.8060D-02	0.320
1	+2.60	550	-3.884D+20	2.094D+03	-1.009	-34.0	-1.364D-04	3.897D-05	2.684	2.2936D-02	4.6612D-02	6.9547D-02	0.308
1	+2.80	550	-4.242D+20	2.238D+03	-1.009	-33.2	-1.309D-04	3.832D-05	2.708	2.4730D-02	4.6389D-02	7.1119D-02	0.296
1	+3.00	550	-4.616D+20	2.384D+03	-1.009	-32.5	-1.256D-04	3.764D-05	2.730	2.6571D-02	4.6194D-02	7.2765D-02	0.284
1	+3.20	550	-5.005D+20	2.534D+03	-1.008	-31.9	-1.207D-04	3.693D-05	2.753	2.8463D-02	4.6025D-02	7.4487D-02	0.273
1	+3.40	550	-5.408D+20	2.685D+03	-1.008	-31.2	-1.161D-04	3.621D-05	2.774	3.0395D-02	4.5877D-02	7.6272D-02	0.261
1	+3.60	550	-5.825D+20	2.838D+03	-1.008	-30.7	-1.118D-04	3.548D-05	2.794	3.2368D-02	4.5748D-02	7.8116D-02	0.250
1	+3.80	550	-6.255D+20	2.994D+03	-1.007	-30.1	-1.077D-04	3.475D-05	2.814	3.4378D-02	4.5637D-02	8.0015D-02	0.239
1	+4.00	550	-6.698D+20	3.151D+03	-1.007	-29.6	-1.039D-04	3.402D-05	2.832	3.6423D-02	4.5540D-02	8.1963D-02	0.228
1	+4.20	550	-7.154D+20	3.310D+03	-1.007	-29.1	-1.003D-04	3.329D-05	2.850	3.8502D-02	4.5455D-02	8.3957D-02	0.218
1	+4.40	550	-7.622D+20	3.470D+03	-1.006	-28.6	-9.689D-05	3.258D-05	2.867	4.0611D-02	4.5382D-02	8.5993D-02	0.208
1	+4.60	550	-8.103D+20	3.632D+03	-1.006	-28.1	-9.368D-05	3.188D-05	2.884	4.2749D-02	4.5318D-02	8.8067D-02	0.199
1	+4.80	550	-8.594D+20	3.796D+03	-1.006	-27.7	-9.065D-05	3.119D-05	2.900	4.4915D-02	4.5262D-02	9.0177D-02	0.190
1	+5.00	550	-9.098D+20	3.960D+03	-1.005	-27.3	-8.778D-05	3.051D-05	2.915	4.7106D-02	4.5213D-02	9.2319D-02	0.182
1	+5.20	550	-9.612D+20	4.126D+03	-1.005	-26.9	-8.507D-05	2.986D-05	2.928	4.9311D-02	4.5170D-02	9.4482D-02	0.174
1	+5.40	550	-1.014D+21	4.293D+03	-1.005	-26.6	-8.249D-05	2.922D-05	2.943	5.1559D-02	4.5133D-02	9.6692D-02	0.166
1	+5.60	550	-1.067D+21	4.461D+03	-1.005	-26.2	-8.006D-05	2.859D-05	2.956	5.3818D-02	4.5100D-02	9.8918D-02	0.159
1	+5.80	550	-1.122D+21	4.631D+03	-1.004	-25.9	-7.776D-05	2.800D-05	2.967	5.6078D-02	4.5072D-02	1.0115D-01	0.152
1	+6.00	550	-1.177D+21	4.801D+03	-1.004	-25.6	-7.554D-05	2.740D-05	2.980	5.8395D-02	4.5046D-02	1.0344D-01	0.146
1	+6.20	550	-1.234D+21	4.972D+03	-1.004	-25.3	-7.345D-05	2.683D-05	2.992	6.0711D-02	4.5024D-02	1.0573D-01	0.140
1	+6.40	550	-1.292D+21	5.145D+03	-1.004	-25.0	-7.146D-05	2.627D-05	3.003	6.3044D-02	4.5004D-02	1.0805D-01	0.134
1	+6.60	550	-1.350D+21	5.318D+03	-1.004	-24.7	-6.957D-05	2.574D-05	3.013	6.5393D-02	4.4986D-02	1.1038D-01	0.128
1	+6.80	550	-1.410D+21	5.492D+03	-1.003	-24.4	-6.776D-05	2.522D-05	3.023	6.7757D-02	4.4970D-02	1.1273D-01	0.123
1	+7.00	550	-1.470D+21	5.667D+03	-1.003	-24.1	-6.604D-05	2.471D-05	3.032	7.0135D-02	4.4956D-02	1.1509D-01	0.118
1	+7.20	550	-1.531D+21	5.843D+03	-1.003	-23.9	-6.439D-05	2.423D-05	3.042	7.2527D-02	4.4944D-02	1.1747D-01	0.113
1	+7.40	550	-1.593D+21	6.019D+03	-1.003	-23.6	-6.282D-05	2.376D-05	3.050	7.4932D-02	4.4932D-02	1.1986D-01	0.109
1	+7.60	550	-1.657D+21	6.197D+03	-1.003	-23.4	-6.132D-05	2.330D-05	3.059	7.7350D-02	4.4922D-02	1.2227D-01	0.105
1	+7.80	550	-1.720D+21	6.375D+03	-1.003	-23.2	-5.988D-05	2.286D-05	3.066	7.9779D-02	4.4913D-02	1.2469D-01	0.101
1	+8.00	550	-1.785D+21	6.553D+03	-1.003	-23.0	-5.850D-05	2.243D-05	3.074	8.2219D-02	4.4904D-02	1.2712D-01	0.097

x		Eg	Atomic-Spacing		Debye Sound-Velocity		Num-Density	Mass-Density							
		eV	cm	K	cm/s	cm ⁻³	g-cm ⁻³								
1	0.100	0.8956	5.4537D-08	594.9	5.446D+05	4.932D+22	2.665D+00								
mc+		mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-			
1.399D+00		1.40D+00	2.938D+00	2.94D+00	2.740D+01	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00			
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT		
1	-5.00	800	-1.152D+18	1.073D+01	-0.900	-52.3	-5.406D-04	3.137D-06	%15.131	9.6394D-04	5.7395D-02	5.8359D-02	0.043		
1	-4.80	800	-1.431D+18	1.279D+01	-0.955	-53.3	-5.466D-04	3.822D-06	%11.053	8.3945D-04	5.7299D-02	5.8139D-02	0.053		
1	-4.60	800	-1.767D+18	1.532D+01	-0.993	-53.7	-5.456D-04	4.559D-06	8.173	7.4306D-04	5.7188D-02	5.7931D-02	0.063		
1	-4.40	800	-2.173D+18	1.838D+01	-1.017	-53.7	-5.398D-04	5.356D-06	6.174	6.7378D-04	5.7060D-02	5.7734D-02	0.074		
1	-4.20	800	-2.664D+18	2.209D+01	-1.031	-53.4	-5.307D-04	6.223D-06	4.805	6.3028D-04	5.6916D-02	5.7546D-02	0.087		
1	-4.00	800	-3.262D+18	2.657D+01	-1.039	-52.8	-5.194D-04	7.167D-06	3.877	6.1137D-04	5.6745D-02	5.7356D-02	0.100		
1	-3.80	800	-3.987D+18	3.194D+01	-1.043	-52.2	-5.066D-04	8.198D-06	3.251	6.1633D-04	5.6549D-02	5.7166D-02	0.115		
1	-3.60	800	-4.869D+18	3.837D+01	-1.044	-51.4	-4.929D-04	9.322D-06	2.832	6.4500D-04	5.6326D-02	5.6971D-02	0.131		
1	-3.40	800	-5.940D+18	4.604D+01	-1.043	-50.5	-4.786D-04	1.055D-05	2.553	6.9786D-04	5.6073D-02	5.6771D-02	0.149		
1	-3.20	800	-7.242D+18	5.518D+01	-1.041	-49.5	-4.640D-04	1.188D-05	2.369	7.7611D-04	5.5788D-02	5.6564D-02	0.168		
1	-3.00	800	-8.822D+18	6.604D+01	-1.039	-48.5	-4.491D-04	1.332D-05	2.249	8.8169D-04	5.5467D-02	5.6348D-02	0.189		
1	-2.80	800	-1.074D+19	7.889D+01	-1.036	-47.5	-4.342D-04	1.487D-05	2.172	1.0173D-03	5.5108D-02	5.6126D-02	0.212		
1	-2.60	800	-1.306D+19	9.405D+01	-1.033	-46.4	-4.192D-04	1.653D-05	2.125	1.1863D-03	5.4710D-02	5.5897D-02	0.237		
1	-2.40	800	-1.587D+19	1.119D+02	-1.030	-45.3	-4.043D-04	1.829D-05	2.097	1.3931D-03	5.4272D-02	5.5665D-02	0.263		
1	-2.20	800	-1.925D+19	1.328D+02	-1.027	-44.2	-3.895D-04	2.016D-05	2.083	1.6428D-03	5.3793D-02	5.5436D-02	0.291		
1	-2.00	800	-2.333D+19	1.573D+02	-1.024	-43.1	-3.749D-04	2.210D-05	2.079	1.9415D-03	5.3274D-02	5.5215D-02	0.320		
1	-1.80	800	-2.822D+19	1.857D+02	-1.022	-42.0	-3.603D-04	2.412D-05	2.082	2.2959D-03	5.2717D-02	5.5013D-02	0.351		
1	-1.60	800	-3.408D+19	2.187D+02	-1.020	-40.8	-3.460D-04	2.618D-05	2.090	2.7141D-03	5.2124D-02	5.4838D-02	0.382		
1	-1.40	800	-4.107D+19	2.568D+02	-1.018	-39.7	-3.318D-04	2.827D-05	2.102	3.2048D-03	5.1499D-02	5.4704D-02	0.413		
1	-1.20	800	-4.936D+19	3.005D+02	-1.016	-38.6	-3.179D-04	3.036D-05	2.117	3.7774D-03	5.0850D-02	5.4627D-02	0.445		
1	-1.00	800	-5.915D+19	3.505D+02	-1.015	-37.5	-3.042D-04	3.242D-05	2.135	4.4420D-03	5.0182D-02	5.4624D-02	0.475		
1	-0.80	800	-7.065D+19	4.072D+02	-1.013	-36.5	-2.907D-04	3.442D-05	2.155	5.2091D-03	4.9503D-02	5.4712D-02	0.503		
1	-0.60	800	-8.408D+19	4.712D+02	-1.012	-35.4	-2.776D-04	3.632D-05	2.177	6.0889D-03	4.8821D-02	5.4910D-02	0.529		
1	-0.40	800	-9.965D+19	5.430D+02	-1.011	-34.4	-2.648D-04	3.809D-05	2.200	7.0917D-03	4.8146D-02	5.5237D-02	0.552		
1	-0.20	800	-1.176D+20	6.229D+02	-1.010	-33.4	-2.525D-04	3.970D-05	2.225	8.2271D-03	4.7484D-02	5.5711D-02	0.570		
1	+0.00	800	-1.381D+20	7.112D+02	-1.010	-32.5	-2.405D-04	4.113D-05	2.251	9.5030D-03	4.6843D-02	5.6346D-02	0.584		
1	+0.20	800	-1.613D+20	8.080D+02	-1.009	-31.6	-2.289D-04	4.235D-05	2.278	1.0926D-02	4.6231D-02	5.7158D-02	0.593		
1	+0.40	800	-1.874D+20	9.134D+02	-1.008	-30.7	-2.179D-04	4.336D-05	2.306	1.2502D-02	4.5653D-02	5.8155D-02	0.596		
1	+0.60	800	-2.166D+20	1.027D+03	-1.008	-29.8	-2.073D-04	4.414D-05	2.334	1.4232D-02	4.5113D-02	5.9345D-02	0.595		
1	+0.80	800	-2.489D+20	1.149D+03	-1.007	-29.0	-1.973D-04	4.470D-05	2.364	1.6120D-02	4.4613D-02	6.0732D-02	0.589		
1	+1.00	800	-2.843D+20	1.278D+03	-1.007	-28.3	-1.877D-04	4.505D-05	2.393	1.8159D-02	4.4155D-02	6.2314D-02	0.578		
1	+1.20	800	-3.230D+20	1.415D+03	-1.006	-27.5	-1.787D-04	4.520D-05	2.422	2.0348D-02	4.3740D-02	6.4088D-02	0.564		
1	+1.40	800	-3.649D+20	1.559D+03	-1.006	-26.8	-1.702D-04	4.516D-05	2.451	2.2686D-02	4.3366D-02	6.6052D-02	0.547		
1	+1.60	800	-4.100D+20	1.709D+03	-1.006	-26.2	-1.622D-04	4.496D-05	2.480	2.5164D-02	4.3032D-02	6.8196D-02	0.527		
1	+1.80	800	-4.582D+20	1.865D+03	-1.005	-25.5	-1.547D-04	4.462D-05	2.509	2.7776D-02	4.2735D-02	7.0512D-02	0.506		
1	+2.00	800	-5.095D+20	2.026D+03	-1.005	-24.9	-1.476D-04	4.416D-05	2.537	3.0518D-02	4.2474D-02	7.2991D-02	0.484		
1	+2.20	800	-5.639D+20	2.192D+03	-1.005	-24.4	-1.410D-04	4.359D-05	2.565	3.3379D-02	4.2244D-02	7.5623D-02	0.461		
1	+2.40	800	-6.212D+20	2.362D+03	-1.004	-23.8	-1.348D-04	4.294D-05	2.593	3.6354D-02	4.2043D-02	7.8397D-02	0.438		
1	+2.60	800	-6.813D+20	2.536D+03	-1.004	-23.3	-1.290D-04	4.222D-05	2.619	3.9435D-02	4.1868D-02	8.1304D-02	0.415		
1	+2.80	800	-7.442D+20	2.714D+03	-1.004	-22.9	-1.236D-04	4.145D-05	2.645	4.2616D-02	4.1717D-02	8.4333D-02	0.393		
1	+3.00	800	-8.098D+20	2.895D+03	-1.004	-22.4	-1.185D-04	4.064D-05	2.670	4.5890D-02	4.1585D-02	8.7475D-02	0.372		
1	+3.20	800	-8.780D+20	3.079D+03	-1.003	-22.0	-1.137D-04	3.981D-05	2.694	4.9250D-02	4.1472D-02	9.0722D-02	0.351		
1	+3.40	800	-9.487D+20	3.266D+03	-1.003	-21.6	-1.092D-04	3.896D-05	2.718	5.2692D-02	4.1374D-02	9.4066D-02	0.331		
1	+3.60	800	-1.022D+21	3.456D+03	-1.003	-21.2	-1.050D-04	3.811D-05	2.740	5.6209D-02	4.1290D-02	9.7498D-02	0.313		
1	+3.80	800	-1.097D+21	3.647D+03	-1.003	-20.8	-1.011D-04	3.725D-05	2.762	5.9795D-02	4.1217D-02	1.0101D-01	0.295		
1	+4.00	800	-1.175D+21	3.841D+03	-1.003	-20.5	-9.735D-05	3.640D-05	2.783	6.3447D-02	4.1155D-02	1.0460D-01	0.278		
1	+4.20	800	-1.255D+21	4.036D+03	-1.002	-20.1	-9.386D-05	3.556D-05	2.803	6.7160D-02	4.1101D-02	1.0826D-01	0.263		
1	+4.40	800	-1.337D+21	4.234D+03	-1.002	-19.8	-9.057D-05	3.473D-05	2.822	7.0928D-02	4.1055D-02	1.1198D-01	0.248		
1	+4.60	800	-1.421D+21	4.433D+03	-1.002	-19.5	-8.747D-05	3.391D-05	2.841	7.4750D-02	4.1015D-02	1.1576D-01	0.234		
1	+4.80	800	-1.508D+21	4.633D+03	-1.002	-19.2	-8.454D-05	3.311D-05	2.858	7.8619D-02	4.0980D-02	1.1960D-01	0.222		
1	+5.00	800	-1.596D+21	4.835D+03	-1.002	-18.9	-8.178D-05	3.234D-05	2.875	8.2535D-02	4.0950D-02	1.2349D-01	0.209		
1	+5.20	800	-1.686D+21	5.039D+03	-1.002	-18.7	-7.916D-05	3.158D-05	2.892	8.6492D-02	4.0925D-02	1.2742D-01	0.198		
1	+5.40	800	-1.778D+21	5.243D+03	-1.002	-18.4	-7.669D-05	3.084D-05	2.907	9.0489D-02	4.0902D-02	1.3139D-01	0.188		
1	+5.60	800	-1.872D+21	5.449D+03	-1.001	-18.2	-7.435D-05	3.012D-05	2.922	9.4522D-02	4.0883D-02	1.3541D-01	0.178		
1	+5.80	800	-1.968D+21	5.656D+03	-1.001	-18.0	-7.213D-05	2.943D-05	2.936	9.8590D-02	4.0866D-02	1.3946D-01	0.169		
1	+6.00	800	-2.066D+21	5.864D+03	-1.001	-17.7	-7.003D-05	2.876D-05	2.950	1.0269D-01	4.0851D-02	1.4354D-01	0.160		
1	+6.20	800	-2.165D+21	6.073D+03	-1.001	-17.5	-6.803D-05	2.811D-05	2.963	1.0682D-01	4.0838D-02	1.4766D-01	0.152		
1	+6.40	800	-2.266D+21	6.283D+03	-1.001	-17.3	-6.613D-05	2.748D-05	2.975	1.1097D-01	4.0827D-02	1.5180D-01	0.145		
1	+6.60	800	-2.369D+21	6.494D+03	-1.001	-17.1	-6.432D-05	2.687D-05	2.987	1.1516D-01	4.0817D-02	1.5597D-01	0.138		
1	+6.80	800	-2.473D+21	6.706D+03	-1.001	-16.9	-6.260D-05	2.628D-05	2.998	1.1936D-01	4.0808D-02	1.6017D-01	0.131		
1	+7.00	800	-2.579D+21	6.919D+03	-1.001	-16.8	-6.096D-05	2.571D-05	3.009	1.2359D-01	4.0800D-02	1.6439D-01	0.125		
1	+7.20	800	-2.686D+21	7.133D+03	-1.001	-16.6	-5.939D-05	2.516D-05	3.019	1.2784D-01	4.0793D-02	1.6863D-01	0.119		
1	+7.40	800	-2.795D+21	7.347D+03	-1.001	-16.4	-5.790D-05	2.463D-05	3.029	1.3211D-01	4.0787D-02	1.7290D-01	0.114		
1	+7.60	800	-2.906D+21	7.562D+03	-1.001	-16.3	-5.647D-05	2.412D-05	3.038	1.3640D-01	4.0781D-02	1.7718D-01	0.109		
1	+7.80	800	-3.018D+21	7.778D+03	-1.001	-16.1	-5.511D-05	2.362D-05	3.047	1.4070D-01	4.0776D-02	1.8148D-01	0.104		
1	+8.00	800	-3.132D+21	7.994D+03	-1.001	-15.9	-5.380D-05	2.314D-05	3.057	1.4506D-01	4.0772D-02	1.8583D-01	0.100		

x	Eg		Atomic-Spacing		Debye Sound-Velocity		Num-Density		Mass-Density						
	eV	cm	cm	K	cm/s	cm ⁻³	cm ⁻³	g-cm ⁻³	g-cm ⁻³	g-cm ⁻³	g-cm ⁻³	g-cm ⁻³	g-cm ⁻³	g-cm ⁻³	g-cm ⁻³
1	0.100	0.8346	5.4537D-08	594.9	5.446D+05	4.932D+22	2.665D+00								
	mc+	mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-			
1.399D+00	1.40D+00	2.938D+00	2.94D+00	2.740D+01	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00				
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT		
1	-5.00	1050	+2.114D+18	3.265D+01	+0.151	+14.6	+1.789D-04	1.045D-06	%40.554	1.0318D-02	4.9463D-02	5.9780D-02	0.018		
1	-4.80	1050	+1.000D+18	3.151D+01	+0.038	+7.5	+8.942D-05	2.519D-07	%44.776	1.0994D-02	4.9401D-02	6.0395D-02	0.004		
1	-4.60	1050	-7.373D+16	3.168D+01	-0.000	-0.6	-6.654D-06	1.403D-09	%45.855	1.1317D-02	4.9329D-02	6.0646D-02	0.000		
1	-4.40	1050	-1.151D+18	3.159D+01	-0.050	-8.6	-1.023D-04	3.309D-07	%44.362	1.0919D-02	4.9245D-02	6.0164D-02	0.006		
1	-4.20	1050	-2.273D+18	3.291D+01	-0.171	-15.4	-1.903D-04	1.192D-06	%39.784	1.0202D-02	4.9148D-02	5.9351D-02	0.021		
1	-4.00	1050	-3.485D+18	3.555D+01	-0.330	-21.0	-2.639D-04	2.476D-06	%33.423	9.2565D-03	4.9037D-02	5.8293D-02	0.045		
1	-3.80	1050	-4.832D+18	3.952D+01	-0.494	-25.2	-3.204D-04	4.058D-06	%26.654	8.2073D-03	4.8909D-02	5.7116D-02	0.075		
1	-3.60	1050	-6.369D+18	4.493D+01	-0.639	-28.2	-3.601D-04	5.827D-06	%20.474	7.1678D-03	4.8762D-02	5.5930D-02	0.109		
1	-3.40	1050	-8.152D+18	5.193D+01	-0.757	-30.1	-3.852D-04	7.706D-06	%15.370	6.2186D-03	4.8595D-02	5.4814D-02	0.148		
1	-3.20	1050	-1.025D+19	6.069D+01	-0.845	-31.2	-3.987D-04	9.650D-06	%11.434	5.4069D-03	4.8405D-02	5.3812D-02	0.188		
1	-3.00	1050	-1.274D+19	7.147D+01	-0.907	-31.8	-4.036D-04	1.164D-05	8.536	4.7536D-03	4.8190D-02	5.2944D-02	0.231		
1	-2.80	1050	-1.572D+19	8.455D+01	-0.950	-31.9	-4.021D-04	1.367D-05	6.472	4.2637D-03	4.7949D-02	5.2213D-02	0.275		
1	-2.60	1050	-1.929D+19	1.003D+02	-0.978	-31.8	-3.963D-04	1.575D-05	5.035	3.9334D-03	4.7679D-02	5.1612D-02	0.320		
1	-2.40	1050	-2.357D+19	1.190D+02	-0.996	-31.4	-3.875D-04	1.787D-05	4.050	3.7561D-03	4.7379D-02	5.1135D-02	0.367		
1	-2.20	1050	-2.871D+19	1.412D+02	-1.007	-30.9	-3.767D-04	2.004D-05	3.385	3.7252D-03	4.7048D-02	5.0773D-02	0.414		
1	-2.00	1050	-3.489D+19	1.674D+02	-1.014	-30.4	-3.646D-04	2.226D-05	2.940	3.8362D-03	4.6686D-02	5.0522D-02	0.463		
1	-1.80	1050	-4.228D+19	1.982D+02	-1.017	-29.7	-3.518D-04	2.452D-05	2.647	4.0868D-03	4.6294D-02	5.0381D-02	0.511		
1	-1.60	1050	-5.112D+19	2.340D+02	-1.018	-29.1	-3.385D-04	2.681D-05	2.456	4.4781D-03	4.5874D-02	5.0352D-02	0.559		
1	-1.40	1050	-6.165D+19	2.756D+02	-1.018	-28.4	-3.250D-04	2.910D-05	2.335	5.0137D-03	4.5428D-02	5.0442D-02	0.606		
1	-1.20	1050	-7.413D+19	3.235D+02	-1.018	-27.7	-3.114D-04	3.138D-05	2.261	5.6997D-03	4.4960D-02	5.0659D-02	0.650		
1	-1.00	1050	-8.887D+19	3.786D+02	-1.017	-27.0	-2.980D-04	3.361D-05	2.219	6.5453D-03	4.4473D-02	5.1019D-02	0.692		
1	-0.80	1050	-1.062D+20	4.414D+02	-1.015	-26.3	-2.846D-04	3.576D-05	2.199	7.5611D-03	4.3975D-02	5.1536D-02	0.729		
1	-0.60	1050	-1.264D+20	5.124D+02	-1.014	-25.7	-2.716D-04	3.780D-05	2.193	8.7570D-03	4.3471D-02	5.2228D-02	0.760		
1	-0.40	1050	-1.498D+20	5.924D+02	-1.013	-25.0	-2.589D-04	3.970D-05	2.198	1.0146D-02	4.2968D-02	5.3114D-02	0.785		
1	-0.20	1050	-1.768D+20	6.816D+02	-1.012	-24.4	-2.465D-04	4.141D-05	2.210	1.1739D-02	4.2472D-02	5.4211D-02	0.802		
1	+0.00	1050	-2.076D+20	7.804D+02	-1.011	-23.7	-2.345D-04	4.293D-05	2.228	1.3547D-02	4.1990D-02	5.5537D-02	0.812		
1	+0.20	1050	-2.425D+20	8.890D+02	-1.010	-23.1	-2.230D-04	4.422D-05	2.249	1.5578D-02	4.1528D-02	5.7105D-02	0.813		
1	+0.40	1050	-2.818D+20	1.007D+03	-1.009	-22.5	-2.120D-04	4.527D-05	2.273	1.7839D-02	4.1089D-02	5.8928D-02	0.807		
1	+0.60	1050	-3.257D+20	1.135D+03	-1.008	-21.9	-2.015D-04	4.608D-05	2.299	2.0333D-02	4.0678D-02	6.1011D-02	0.793		
1	+0.80	1050	-3.742D+20	1.273D+03	-1.007	-21.4	-1.915D-04	4.665D-05	2.326	2.3062D-02	4.0298D-02	6.3360D-02	0.773		
1	+1.00	1050	-4.275D+20	1.419D+03	-1.006	-20.8	-1.820D-04	4.698D-05	2.354	2.6026D-02	3.9950D-02	6.5975D-02	0.748		
1	+1.20	1050	-4.857D+20	1.573D+03	-1.006	-20.3	-1.730D-04	4.709D-05	2.383	2.9214D-02	3.9634D-02	6.8847D-02	0.718		
1	+1.40	1050	-5.487D+20	1.736D+03	-1.005	-19.8	-1.646D-04	4.701D-05	2.412	3.2624D-02	3.9350D-02	7.1974D-02	0.686		
1	+1.60	1050	-6.165D+20	1.905D+03	-1.005	-19.4	-1.566D-04	4.675D-05	2.442	3.6249D-02	3.9096D-02	7.5346D-02	0.651		
1	+1.80	1050	-6.890D+20	2.081D+03	-1.004	-18.9	-1.492D-04	4.633D-05	2.471	4.0077D-02	3.8872D-02	7.8950D-02	0.616		
1	+2.00	1050	-7.662D+20	2.264D+03	-1.004	-18.5	-1.422D-04	4.578D-05	2.501	4.4104D-02	3.8675D-02	8.2780D-02	0.581		
1	+2.20	1050	-8.479D+20	2.451D+03	-1.004	-18.1	-1.357D-04	4.513D-05	2.529	4.8313D-02	3.8503D-02	8.6816D-02	0.546		
1	+2.40	1050	-9.340D+20	2.644D+03	-1.003	-17.7	-1.296D-04	4.438D-05	2.558	5.2694D-02	3.8353D-02	9.1047D-02	0.512		
1	+2.60	1050	-1.024D+21	2.841D+03	-1.003	-17.4	-1.238D-04	4.357D-05	2.586	5.7238D-02	3.8223D-02	9.5461D-02	0.479		
1	+2.80	1050	-1.119D+21	3.042D+03	-1.003	-17.0	-1.185D-04	4.270D-05	2.613	6.1934D-02	3.8111D-02	1.0004D-01	0.448		
1	+3.00	1050	-1.218D+21	3.247D+03	-1.002	-16.7	-1.135D-04	4.180D-05	2.639	6.6771D-02	3.8014D-02	1.0478D-01	0.419		
1	+3.20	1050	-1.320D+21	3.455D+03	-1.002	-16.4	-1.088D-04	4.087D-05	2.664	7.1727D-02	3.7931D-02	1.0966D-01	0.391		
1	+3.40	1050	-1.426D+21	3.666D+03	-1.002	-16.1	-1.044D-04	3.993D-05	2.690	7.6830D-02	3.7860D-02	1.1469D-01	0.366		
1	+3.60	1050	-1.536D+21	3.880D+03	-1.002	-15.8	-1.002D-04	3.897D-05	2.715	8.2065D-02	3.7798D-02	1.1986D-01	0.341		
1	+3.80	1050	-1.650D+21	4.096D+03	-1.002	-15.5	-9.636D-05	3.803D-05	2.737	8.7344D-02	3.7747D-02	1.2509D-01	0.319		
1	+4.00	1050	-1.767D+21	4.315D+03	-1.002	-15.3	-9.273D-05	3.710D-05	2.759	9.2751D-02	3.7702D-02	1.3045D-01	0.299		
1	+4.20	1050	-1.887D+21	4.535D+03	-1.001	-15.0	-8.931D-05	3.617D-05	2.780	9.8247D-02	3.7663D-02	1.3591D-01	0.279		
1	+4.40	1050	-2.011D+21	4.757D+03	-1.001	-14.8	-8.610D-05	3.526D-05	2.801	1.0383D-01	3.7631D-02	1.4146D-01	0.262		
1	+4.60	1050	-2.137D+21	4.981D+03	-1.001	-14.6	-8.307D-05	3.437D-05	2.821	1.0948D-01	3.7603D-02	1.4709D-01	0.245		
1	+4.80	1050	-2.267D+21	5.207D+03	-1.001	-14.4	-8.022D-05	3.351D-05	2.840	1.1521D-01	3.7578D-02	1.5279D-01	0.230		
1	+5.00	1050	-2.400D+21	5.434D+03	-1.001	-14.1	-7.753D-05	3.266D-05	2.858	1.2100D-01	3.7558D-02	1.5856D-01	0.216		
1	+5.20	1050	-2.535D+21	5.662D+03	-1.001	-14.0	-7.499D-05	3.184D-05	2.875	1.2685D-01	3.7540D-02	1.6439D-01	0.203		
1	+5.40	1050	-2.674D+21	5.892D+03	-1.001	-13.8	-7.259D-05	3.105D-05	2.892	1.3276D-01	3.7525D-02	1.7029D-01	0.191		
1	+5.60	1050	-2.815D+21	6.123D+03	-1.001	-13.6	-7.031D-05	3.027D-05	2.909	1.3879D-01	3.7511D-02	1.7631D-01	0.180		
1	+5.80	1050	-2.959D+21	6.354D+03	-1.001	-13.4	-6.817D-05	2.953D-05	2.923	1.4473D-01	3.7500D-02	1.8223D-01	0.170		
1	+6.00	1050	-3.106D+21	6.587D+03	-1.001	-13.2	-6.614D-05	2.881D-05	2.938	1.5078D-01	3.7490D-02	1.8827D-01	0.161		
1	+6.20	1050	-3.255D+21	6.821D+03	-1.001	-13.1	-6.420D-05	2.812D-05	2.952	1.5687D-01	3.7481D-02	1.9435D-01	0.152		
1	+6.40	1050	-3.407D+21	7.056D+03	-1.001	-12.9	-6.237D-05	2.745D-05	2.965	1.6299D-01	3.7473D-02	2.0047D-01	0.144		
1	+6.60	1050	-3.561D+21	7.292D+03	-1.001	-12.8	-6.063D-05	2.680D-05	2.977	1.6915D-01	3.7467D-02	2.0			

x	Eg eV	Atomic-Spacing cm	Debye K	Sound-Velocity cm/s	Num-Density cm-3	Mass-Density g-cm-3							
1	0.100	0.7736	5.4537D-08	594.9	5.446D+05	4.932D+22	2.665D+00						
		mc+	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-	
1.399D+00	1.40D+00	2.938D+00	2.94D+00	2.74D+01	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00		
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT
1	-5.00	1300	+5.024D+19	1.964D+02	+0.875	+21.4	+3.186D-04	1.994D-05	7.287	1.3805D-02	4.3913D-02	5.7718D-02	0.449
1	-4.80	1300	+4.050D+19	1.688D+02	+0.805	+20.9	+3.141D-04	1.666D-05	9.549	1.5552D-02	4.3869D-02	5.9421D-02	0.364
1	-4.60	1300	+3.218D+19	1.463D+02	+0.708	+20.1	+3.016D-04	1.331D-05	%12.571	1.7747D-02	4.3819D-02	6.1566D-02	0.281
1	-4.40	1300	+2.502D+19	1.285D+02	+0.582	+18.7	+2.785D-04	9.964D-06	%16.395	2.0316D-02	4.3760D-02	6.4076D-02	0.202
1	-4.20	1300	+1.877D+19	1.148D+02	+0.431	+16.4	+2.426D-04	6.759D-06	%20.861	2.3107D-02	4.3692D-02	6.6798D-02	0.132
1	-4.00	1300	+1.321D+19	1.052D+02	+0.268	+13.3	+1.925D-04	3.901D-06	%25.488	2.5872D-02	4.3613D-02	6.9485D-02	0.073
1	-3.80	1300	+8.145D+18	9.957D+01	+0.121	+9.2	+1.290D-04	1.657D-06	%29.456	2.8294D-02	4.3522D-02	7.1816D-02	0.030
1	-3.60	1300	+3.383D+18	9.805D+01	+0.023	+4.2	+5.575D-05	3.047D-07	%31.779	3.0057D-02	4.3417D-02	7.3474D-02	0.005
1	-3.40	1300	-1.253D+18	9.894D+01	-0.003	-1.6	-2.068D-05	4.230D-08	%32.056	3.0597D-02	4.3297D-02	7.3894D-02	0.001
1	-3.20	1300	-5.936D+18	9.834D+01	-0.068	-7.0	-9.631D-05	9.121D-07	%30.781	2.9199D-02	4.3161D-02	7.2360D-02	0.016
1	-3.00	1300	-1.084D+19	1.021D+02	-0.197	-11.6	-1.649D-04	2.779D-06	%27.448	2.7045D-02	4.3005D-02	7.0051D-02	0.052
1	-2.80	1300	-1.615D+19	1.099D+02	-0.356	-15.1	-2.214D-04	5.391D-06	%23.004	2.4395D-02	4.2830D-02	6.7225D-02	0.104
1	-2.60	1300	-2.206D+19	1.217D+02	-0.515	-17.8	-2.638D-04	8.467D-06	%18.383	2.1580D-02	4.2633D-02	6.4213D-02	0.171
1	-2.40	1300	-2.877D+19	1.376D+02	-0.654	-19.5	-2.925D-04	1.177D-05	%14.228	1.8885D-02	4.2413D-02	6.1298D-02	0.250
1	-2.20	1300	-3.653D+19	1.579D+02	-0.764	-20.6	-3.095D-04	1.513D-05	%10.834	1.6505D-02	4.2169D-02	5.8674D-02	0.335
1	-2.00	1300	-4.558D+19	1.831D+02	-0.846	-21.2	-3.174D-04	1.845D-05	8.236	1.4547D-02	4.1900D-02	5.6448D-02	0.425
1	-1.80	1300	-5.622D+19	2.136D+02	-0.904	-21.4	-3.185D-04	2.167D-05	6.336	1.3055D-02	4.1608D-02	5.4662D-02	0.515
1	-1.60	1300	-6.876D+19	2.500D+02	-0.944	-21.4	-3.148D-04	2.478D-05	4.989	1.2031D-02	4.1292D-02	5.3323D-02	0.604
1	-1.40	1300	-8.356D+19	2.929D+02	-0.970	-21.2	-3.078D-04	2.775D-05	4.056	1.1460D-02	4.0955D-02	5.2415D-02	0.688
1	-1.20	1300	-1.010D+20	3.430D+02	-0.987	-20.9	-2.986D-04	3.058D-05	3.421	1.1319D-02	4.0598D-02	5.1917D-02	0.766
1	-1.00	1300	-1.215D+20	4.009D+02	-0.998	-20.6	-2.881D-04	3.327D-05	2.996	1.1586D-02	4.0225D-02	5.1812D-02	0.835
1	-0.80	1300	-1.455D+20	4.675D+02	-1.004	-20.1	-2.767D-04	3.578D-05	2.715	1.2244D-02	3.9841D-02	5.2085D-02	0.893
1	-0.60	1300	-1.735D+20	5.432D+02	-1.008	-19.7	-2.649D-04	3.811D-05	2.534	1.3277D-02	3.9451D-02	5.2728D-02	0.940
1	-0.40	1300	-2.059D+20	6.287D+02	-1.010	-19.2	-2.530D-04	4.024D-05	2.420	1.4677D-02	3.9059D-02	5.3736D-02	0.973
1	-0.20	1300	-2.431D+20	7.244D+02	-1.011	-18.8	-2.412D-04	4.213D-05	2.352	1.6439D-02	3.8671D-02	5.5110D-02	0.994
1	+0.00	1300	-2.856D+20	8.307D+02	-1.011	-18.3	-2.296D-04	4.378D-05	2.316	1.8560D-02	3.8293D-02	5.6852D-02	1.001
1	+0.20	1300	-3.338D+20	9.477D+02	-1.010	-17.9	-2.183D-04	4.516D-05	2.301	2.1035D-02	3.7928D-02	5.8963D-02	0.996
1	+0.40	1300	-3.880D+20	1.075D+03	-1.010	-17.5	-2.074D-04	4.627D-05	2.300	2.3865D-02	3.7582D-02	6.1446D-02	0.979
1	+0.60	1300	-4.485D+20	1.214D+03	-1.009	-17.0	-1.970D-04	4.711D-05	2.310	2.7043D-02	3.7257D-02	6.4300D-02	0.952
1	+0.80	1300	-5.154D+20	1.362D+03	-1.008	-16.6	-1.871D-04	4.768D-05	2.326	3.0565D-02	3.6955D-02	6.7520D-02	0.918
1	+1.00	1300	-5.888D+20	1.520D+03	-1.008	-16.2	-1.777D-04	4.800D-05	2.347	3.4426D-02	3.6679D-02	7.1105D-02	0.878
1	+1.20	1300	-6.690D+20	1.688D+03	-1.007	-15.9	-1.688D-04	4.809D-05	2.371	3.8607D-02	3.6429D-02	7.5036D-02	0.833
1	+1.40	1300	-7.558D+20	1.864D+03	-1.006	-15.5	-1.604D-04	4.796D-05	2.397	4.3102D-02	3.6204D-02	7.9306D-02	0.786
1	+1.60	1300	-8.492D+20	2.048D+03	-1.006	-15.1	-1.525D-04	4.764D-05	2.425	4.7899D-02	3.6003D-02	8.3903D-02	0.738
1	+1.80	1300	-9.491D+20	2.239D+03	-1.005	-14.8	-1.451D-04	4.716D-05	2.453	5.2979D-02	3.5826D-02	8.8806D-02	0.690
1	+2.00	1300	-1.055D+21	2.436D+03	-1.005	-14.5	-1.382D-04	4.654D-05	2.482	5.8337D-02	3.5671D-02	9.4008D-02	0.644
1	+2.20	1300	-1.168D+21	2.640D+03	-1.004	-14.2	-1.317D-04	4.581D-05	2.511	6.3946D-02	3.5536D-02	9.9482D-02	0.599
1	+2.40	1300	-1.287D+21	2.849D+03	-1.004	-13.9	-1.257D-04	4.499D-05	2.540	6.9794D-02	3.5418D-02	1.0521D-01	0.556
1	+2.60	1300	-1.411D+21	3.063D+03	-1.004	-13.6	-1.200D-04	4.410D-05	2.568	7.5866D-02	3.5316D-02	1.1118D-01	0.516
1	+2.80	1300	-1.542D+21	3.281D+03	-1.003	-13.3	-1.147D-04	4.316D-05	2.596	8.2146D-02	3.5229D-02	1.1737D-01	0.478
1	+3.00	1300	-1.677D+21	3.502D+03	-1.003	-13.1	-1.097D-04	4.218D-05	2.623	8.8620D-02	3.5154D-02	1.2377D-01	0.443
1	+3.20	1300	-1.819D+21	3.728D+03	-1.003	-12.8	-1.051D-04	4.117D-05	2.649	9.5260D-02	3.5089D-02	1.3035D-01	0.411
1	+3.40	1300	-1.965D+21	3.956D+03	-1.003	-12.6	-1.008D-04	4.016D-05	2.675	1.0209D-01	3.5034D-02	1.3713D-01	0.381
1	+3.60	1300	-2.117D+21	4.187D+03	-1.002	-12.4	-9.668D-05	3.914D-05	2.701	1.0909D-01	3.4987D-02	1.4408D-01	0.353
1	+3.80	1300	-2.273D+21	4.421D+03	-1.002	-12.2	-9.288D-05	3.813D-05	2.724	1.1618D-01	3.4947D-02	1.5112D-01	0.328
1	+4.00	1300	-2.434D+21	4.657D+03	-1.002	-12.0	-8.930D-05	3.714D-05	2.747	1.2342D-01	3.4913D-02	1.5833D-01	0.305
1	+4.20	1300	-2.600D+21	4.895D+03	-1.002	-11.8	-8.594D-05	3.615D-05	2.770	1.3079D-01	3.4884D-02	1.6567D-01	0.284
1	+4.40	1300	-2.770D+21	5.134D+03	-1.002	-11.6	-8.279D-05	3.519D-05	2.791	1.3826D-01	3.4859D-02	1.7312D-01	0.264
1	+4.60	1300	-2.944D+21	5.376D+03	-1.002	-11.4	-7.982D-05	3.425D-05	2.812	1.4583D-01	3.4838D-02	1.8067D-01	0.246
1	+4.80	1300	-3.123D+21	5.619D+03	-1.002	-11.2	-7.703D-05	3.334D-05	2.832	1.5350D-01	3.4819D-02	1.8832D-01	0.230
1	+5.00	1300	-3.306D+21	5.864D+03	-1.001	-11.1	-7.440D-05	3.246D-05	2.851	1.6125D-01	3.4804D-02	1.9605D-01	0.215
1	+5.20	1300	-3.493D+21	6.109D+03	-1.001	-10.9	-7.192D-05	3.160D-05	2.869	1.6908D-01	3.4791D-02	2.0387D-01	0.201
1	+5.40	1300	-3.684D+21	6.356D+03	-1.001	-10.8	-6.957D-05	3.077D-05	2.886	1.7698D-01	3.4779D-02	2.1176D-01	0.189
1	+5.60	1300	-3.878D+21	6.604D+03	-1.001	-10.6	-6.734D-05	2.995D-05	2.905	1.8508D-01	3.4769D-02	2.1985D-01	0.177
1	+5.80	1300	-4.077D+21	6.854D+03	-1.001	-10.5	-6.526D-05	2.919D-05	2.919	1.9296D-01	3.4761D-02	2.2772D-01	0.167
1	+6.00	1300	-4.279D+21	7.104D+03	-1.001	-10.4	-6.328D-05	2.844D-05	2.934	2.0104D-01	3.4753D-02	2.3579D-01	0.157
1	+6.20	1300	-4.484D+21	7.355D+03	-1.001	-10.2	-6.140D-05	2.772D-05	2.948	2.0917D-01	3.4747D-02	2.4391D-01	0.148
1	+6.40	1300	-4.694D+21	7.606D+03	-1.001	-10.1	-5.961D-05	2.703D-05	2.962	2.1734D-01	3.4741D-02	2.5208D-01	0.139
1	+6.60	1300	-4.906D+21	7.859D+03	-1.001	-10.0	-5.792D-05	2.636D-05	2.975	2.2555D-01	3.4737D-02	2.6028D-01	0.132
1	+6.80	1300	-5.122D+21	8.112D+03	-1.001	-9.9	-5.631D-05	2.572D-05	2.987	2.3379D-01	3.4732D-02	2.6853D-01	0.125
1	+7.00	1300	-5.342D+21	8.366D+03	-1.001	-9.8	-5.478D-05	2.510D-05	2.999	2.4208D-01	3.4729D-02	2.7680D-01	0.118
1	+7.20	1300	-5.565D+21	8.621D+03	-1.001	-9.7	-5.332D-05	2.451D-05	3.011	2.5039D-01	3.4725D-02	2.8511D-01	0.112
1	+7.40	1300	-5.791D+21	8.877D+03	-1.001	-9.6	-5.193D-05	2.394D-05	3.022	2.5873D-01	3.4722D-02	2.9345D-01	0.106
1	+7.60	1300	-6.020D+21	9.132D+03	-1.001	-9.5	-5.061D-05	2.339D-05	3.032	2.6710D-01	3.4720D-02	3.0182D-01	0.101
1	+7.80	1300	-6.252D+21	9.389D+03	-1.001	-9.4	-4.934D-05	2.286D-05	3.042	2.7552D-01	3.4717D-02	3.1023D-01	0.096
1	+8.00	1300	-6.487D+21	9.646D+03	-1.001	-9.3	-4.813D-05	2.235D-05	3.051	2.8390D-01	3.4715D-02	3.1861D-01	0.091

x	Eg eV	Atomic Spacing cm	Debye K	Sound Velocity cm/s	Num-Density cm-3	Mass-Density g-cm-3								
1	0.150	0.9963	5.4650D-08	573.3	5.2600D+05	4.9010D+22								
	mc+	mc-	dfpot+	dfpot-	dief+	dief-	dis+	dis-	gamma+	gamma-	beta+	beta-		
	1.3990+00	1.40D+00	2.938D+00	2.94D+00	2.740D+01	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00		
	PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT
1	-5.00	300	-2.786D+17	9.182D+00	-1.047	-215.5	-6.196D-04	3.525D-06	1.987	4.0607D-05	8.2391D-02	8.2431D-02	0.013	
1	-4.80	300	-3.400D+17	1.101D+01	-1.043	-210.8	-6.040D-04	4.018D-06	1.990	4.8793D-05	8.1980D-02	8.2029D-02	0.015	
1	-4.60	300	-4.151D+17	1.319D+01	-1.038	-205.9	-5.885D-04	4.567D-06	1.995	5.8555D-05	8.1514D-02	8.1573D-02	0.017	
1	-4.40	300	-5.066D+17	1.576D+01	-1.035	-200.9	-5.732D-04	5.177D-06	2.001	7.0180D-05	8.0990D-02	8.1060D-02	0.019	
1	-4.20	300	-6.181D+17	1.880D+01	-1.031	-195.7	-5.580D-04	5.852D-06	2.007	8.3998D-05	8.0396D-02	8.0480D-02	0.022	
1	-4.00	300	-7.541D+17	2.238D+01	-1.028	-190.4	-5.428D-04	6.594D-06	2.015	1.0039D-04	7.9731D-02	7.9831D-02	0.025	
1	-3.80	300	-9.198D+17	2.658D+01	-1.025	-185.0	-5.279D-04	7.406D-06	2.025	1.1981D-04	7.8991D-02	7.9111D-02	0.028	
1	-3.60	300	-1.121D+18	3.151D+01	-1.023	-179.5	-5.130D-04	8.291D-06	2.035	1.4277D-04	7.8172D-02	7.8315D-02	0.032	
1	-3.40	300	-1.367D+18	3.726D+01	-1.022	-173.9	-4.982D-04	9.248D-06	2.048	1.6986D-04	7.7272D-02	7.7442D-02	0.036	
1	-3.20	300	-1.665D+18	4.396D+01	-1.021	-168.2	-4.835D-04	1.028D-05	2.062	2.0177D-04	7.6289D-02	7.6490D-02	0.040	
1	-3.00	300	-2.028D+18	5.174D+01	-1.020	-162.5	-4.690D-04	1.138D-05	2.078	2.3928D-04	7.5222D-02	7.5462D-02	0.045	
1	-2.80	300	-2.467D+18	6.074D+01	-1.021	-156.8	-4.545D-04	1.255D-05	2.095	2.8329D-04	7.4075D-02	7.4358D-02	0.051	
1	-2.60	300	-3.000D+18	7.114D+01	-1.021	-151.1	-4.402D-04	1.378D-05	2.114	3.3481D-04	7.2851D-02	7.3185D-02	0.057	
1	-2.40	300	-3.644D+18	8.310D+01	-1.022	-145.5	-4.259D-04	1.508D-05	2.135	3.9498D-04	7.1555D-02	7.1950D-02	0.063	
1	-2.20	300	-4.422D+18	9.682D+01	-1.023	-139.9	-4.118D-04	1.642D-05	2.158	4.6510D-04	7.0196D-02	7.0661D-02	0.070	
1	-2.00	300	-5.358D+18	1.125D+02	-1.025	-134.4	-3.977D-04	1.780D-05	2.182	5.4658D-04	6.8783D-02	6.9329D-02	0.077	
1	-1.80	300	-6.482D+18	1.304D+02	-1.027	-129.0	-3.837D-04	1.920D-05	2.208	6.4112D-04	6.7328D-02	6.7969D-02	0.085	
1	-1.60	300	-7.827D+18	1.507D+02	-1.029	-123.7	-3.698D-04	2.062D-05	2.236	7.5036D-04	6.5843D-02	6.6594D-02	0.093	
1	-1.40	300	-9.431D+18	1.738D+02	-1.031	-118.6	-3.560D-04	2.203D-05	2.265	8.7623D-04	6.4344D-02	6.5220D-02	0.101	
1	-1.20	300	-1.133D+19	1.998D+02	-1.033	-113.6	-3.424D-04	2.342D-05	2.295	1.0207D-03	6.2844D-02	6.3865D-02	0.110	
1	-1.00	300	-1.358D+19	2.290D+02	-1.034	-108.9	-3.289D-04	2.477D-05	2.326	1.1859D-03	6.1360D-02	6.2546D-02	0.119	
1	-0.80	300	-1.622D+19	2.618D+02	-1.036	-104.3	-3.155D-04	2.606D-05	2.358	1.3740D-03	5.9899D-02	6.1273D-02	0.128	
1	-0.60	300	-1.931D+19	2.982D+02	-1.037	-100.0	-3.024D-04	2.727D-05	2.390	1.5868D-03	5.8479D-02	6.0066D-02	0.136	
1	-0.40	300	-2.288D+19	3.387D+02	-1.038	-95.8	-2.895D-04	2.838D-05	2.423	1.8266D-03	5.7111D-02	5.8937D-02	0.144	
1	-0.20	300	-2.700D+19	3.832D+02	-1.038	-91.9	-2.769D-04	2.939D-05	2.455	2.0945D-03	5.5803D-02	5.7897D-02	0.152	
1	+0.00	300	-3.171D+19	4.320D+02	-1.038	-88.3	-2.647D-04	3.026D-05	2.487	2.3920D-03	5.4563D-02	5.6955D-02	0.159	
1	+0.20	300	-3.704D+19	4.851D+02	-1.038	-84.8	-2.528D-04	3.099D-05	2.519	2.7199D-03	5.3398D-02	5.6118D-02	0.166	
1	+0.40	300	-4.304D+19	5.424D+02	-1.037	-81.6	-2.413D-04	3.159D-05	2.550	3.0785D-03	5.2311D-02	5.5390D-02	0.171	
1	+0.60	300	-4.974D+19	6.038D+02	-1.036	-78.5	-2.303D-04	3.204D-05	2.580	3.4678D-03	5.1304D-02	5.4772D-02	0.175	
1	+0.80	300	-5.715D+19	6.693D+02	-1.036	-75.7	-2.198D-04	3.234D-05	2.609	3.8873D-03	5.0377D-02	5.4264D-02	0.179	
1	+1.00	300	-6.529D+19	7.386D+02	-1.035	-73.0	-2.098D-04	3.252D-05	2.637	4.3361D-03	4.9529D-02	5.3865D-02	0.181	
1	+1.20	300	-7.417D+19	8.114D+02	-1.033	-70.6	-2.003D-04	3.256D-05	2.664	4.8129D-03	4.8757D-02	5.3570D-02	0.182	
1	+1.40	300	-8.380D+19	8.875D+02	-1.032	-68.3	-1.914D-04	3.250D-05	2.691	5.3159D-03	4.8059D-02	5.3375D-02	0.183	
1	+1.60	300	-9.415D+19	9.667D+02	-1.031	-66.1	-1.829D-04	3.233D-05	2.716	5.8445D-03	4.7430D-02	5.3275D-02	0.182	
1	+1.80	300	-1.052D+20	1.049D+03	-1.030	-64.1	-1.749D-04	3.208D-05	2.740	6.3961D-03	4.6866D-02	5.3262D-02	0.181	
1	+2.00	300	-1.170D+20	1.133D+03	-1.029	-62.2	-1.674D-04	3.175D-05	2.763	6.9695D-03	4.6362D-02	5.3331D-02	0.179	
1	+2.20	300	-1.295D+20	1.220D+03	-1.028	-60.4	-1.603D-04	3.136D-05	2.785	7.5630D-03	4.5912D-02	5.3475D-02	0.176	
1	+2.40	300	-1.426D+20	1.309D+03	-1.027	-58.8	-1.537D-04	3.093D-05	2.806	8.1754D-03	4.5513D-02	5.3689D-02	0.173	
1	+2.60	300	-1.565D+20	1.399D+03	-1.026	-57.3	-1.475D-04	3.046D-05	2.826	8.8052D-03	4.5160D-02	5.3965D-02	0.169	
1	+2.80	300	-1.709D+20	1.492D+03	-1.025	-55.8	-1.417D-04	2.996D-05	2.845	9.4513D-03	4.4847D-02	5.4298D-02	0.166	
1	+3.00	300	-1.860D+20	1.586D+03	-1.024	-54.5	-1.362D-04	2.943D-05	2.863	1.0111D-02	4.4571D-02	5.4682D-02	0.161	
1	+3.20	300	-2.016D+20	1.682D+03	-1.023	-53.3	-1.311D-04	2.890D-05	2.881	1.0788D-02	4.4328D-02	5.5115D-02	0.157	
1	+3.40	300	-2.179D+20	1.779D+03	-1.022	-52.1	-1.262D-04	2.835D-05	2.899	1.1480D-02	4.4113D-02	5.5594D-02	0.153	
1	+3.60	300	-2.346D+20	1.877D+03	-1.021	-51.0	-1.217D-04	2.781D-05	2.914	1.2178D-02	4.3925D-02	5.6102D-02	0.149	
1	+3.80	300	-2.520D+20	1.977D+03	-1.020	-50.0	-1.174D-04	2.726D-05	2.929	1.2890D-02	4.3758D-02	5.6649D-02	0.144	
1	+4.00	300	-2.698D+20	2.078D+03	-1.019	-49.0	-1.134D-04	2.672D-05	2.943	1.3614D-02	4.3612D-02	5.7226D-02	0.140	
1	+4.20	300	-2.882D+20	2.180D+03	-1.018	-48.1	-1.096D-04	2.619D-05	2.957	1.4348D-02	4.3484D-02	5.7832D-02	0.136	
1	+4.40	300	-3.071D+20	2.283D+03	-1.018	-47.2	-1.060D-04	2.566D-05	2.970	1.5093D-02	4.3370D-02	5.8463D-02	0.132	
1	+4.60	300	-3.264D+20	2.386D+03	-1.017	-46.4	-1.026D-04	2.514D-05	2.983	1.5846D-02	4.3270D-02	5.9117D-02	0.128	
1	+4.80	300	-3.462D+20	2.491D+03	-1.016	-45.6	-9.945D-05	2.464D-05	2.995	1.6609D-02	4.3182D-02	5.9791D-02	0.124	
1	+5.00	300	-3.665D+20	2.597D+03	-1.016	-44.9	-9.642D-05	2.414D-05	3.006	1.7380D-02	4.3104D-02	6.0484D-02	0.120	
1	+5.20	300	-3.872D+20	2.704D+03	-1.015	-44.2	-9.355D-05	2.366D-05	3.017	1.8159D-02	4.3036D-02	6.1194D-02	0.116	
1	+5.40	300	-4.084D+20	2.811D+03	-1.014	-43.6	-9.083D-05	2.319D-05	3.027	1.8946D-02	4.2975D-02	6.1920D-02	0.112	
1	+5.60	300	-4.299D+20	2.920D+03	-1.014	-43.0	-8.825D-05	2.274D-05	3.037	1.9740D-02	4.2920D-02	6.2660D-02	0.109	
1	+5.80	300	-4.519D+20	3.029D+03	-1.013	-42.4	-8.579D-05	2.230D-05	3.046	2.0541D-02	4.2872D-02	6.3414D-02	0.105	
1	+6.00	300	-4.743D+20	3.139D+03	-1.013	-41.8	-8.346D-05	2.187D-05	3.055	2.1350D-02	4.2829D-02	6.4179D-02	0.102	
1	+6.20	300	-4.971D+20	3.250D+03	-1.012	-41.3	-8.124D-05	2.145D-05	3.064	2.2164D-02	4.2791D-02	6.4955D-02	0.099	
1	+6.40	300	-5.203D+20	3.361D+03	-1.012	-40.8	-7.913D-05	2.104D-05	3.072	2.2985D-02	4.2757D-02	6.5742D-02	0.096	
1	+6.60	300	-5.439D+20	3.473D+03	-1.011	-40.3	-7.711D-05	2.065D-05	3.080	2.3812D-02	4.2726D-02	6.6538D-02	0.093	
1	+6.80	300	-5.679D+20	3.586D+03	-1.011	-39.8	-7.519D-05	2.027D-05	3.087	2.4645D-02	4.2698D-02	6.7343D-02	0.090	
1	+7.00	300	-5.922D+20	3.700D+03	-1.010	-39.4	-7.335D-05	1.990D-05	3.094	2.5483D-02	4.2674D-02	6.8157D-02	0.088	
1	+7.20	300	-6.169D+20	3.814D+03	-1.010	-39.0	-7.159D-05	1.955D-05	3.101	2.6327D-02	4.2651D-02	6.8978D-02	0.085	
1	+7.40	300	-6.419D+20	3.929D+03	-1.009	-38.6	-6.991D-05	1.920D-05	3.107	2.7176D-02	4.2631D-02	6.9806D-02	0.083	
1	+7.60	300	-6.673D+20	4.044D+03	-1.009	-38.2	-6.830D-05	1.887D-05	3.113	2.8030D-02	4.2612D-02	7.0642D-02	0.080	
1	+7.80	300	-6.931D+20	4.160D+03	-1.009	-37.8	-6.676D-05	1.854D-05	3.119	2.8888D-02	4.2595D-02	7.1484D-02	0.078	
1	+8.00	300	-7.192D+20	4.277D+03	-1.008	-37.4	-6.528D-05	1.823D-05	3.125	2.9752D-02	4.2580D-02	7.2331D-02	0.076	

x	Eg eV	Atomic-Spacing cm	Debye K	Sound-Velocity cm/s	Num-Density cm ⁻³	Mass-Density g-cm ⁻³							
1	0.150	0.9335	5.4650D-08	573.3	5.260D+05	4.901D+22							
	mc+	mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-	
	1.399D+00	1.40D+00	2.938D+00	2.94D+00	2.740D+01	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00	
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT
1	-5.00	550	-6.914D+17	9.841D+00	-1.075	-95.5	-6.127D-04	3.695D-06	2.013	8.0864D-05	6.0927D-02	6.1008D-02	0.033
1	-4.80	550	-8.441D+17	1.189D+01	-1.069	-94.0	-5.966D-04	4.232D-06	2.003	9.7188D-05	6.0766D-02	6.0863D-02	0.038
1	-4.60	550	-1.030D+18	1.434D+01	-1.064	-92.5	-5.806D-04	4.835D-06	1.997	1.1691D-04	6.0580D-02	6.0697D-02	0.044
1	-4.40	550	-1.257D+18	1.728D+01	-1.059	-90.9	-5.647D-04	5.511D-06	1.994	1.4066D-04	6.0366D-02	6.0507D-02	0.050
1	-4.20	550	-1.534D+18	2.080D+01	-1.054	-89.2	-5.489D-04	6.266D-06	1.993	1.6920D-04	6.0122D-02	6.0291D-02	0.057
1	-4.00	550	-1.872D+18	2.499D+01	-1.049	-87.4	-5.331D-04	7.104D-06	1.994	2.0342D-04	5.9846D-02	6.0049D-02	0.065
1	-3.80	550	-2.283D+18	2.998D+01	-1.045	-85.6	-5.175D-04	8.030D-06	1.997	2.4435D-04	5.9529D-02	5.9773D-02	0.074
1	-3.60	550	-2.784D+18	3.591D+01	-1.040	-83.7	-5.020D-04	9.050D-06	2.001	2.9323D-04	5.9172D-02	5.9465D-02	0.084
1	-3.40	550	-3.393D+18	4.293D+01	-1.036	-81.8	-4.866D-04	1.017D-05	2.006	3.5150D-04	5.8771D-02	5.9122D-02	0.095
1	-3.20	550	-4.134D+18	5.122D+01	-1.032	-79.9	-4.714D-04	1.138D-05	2.013	4.2083D-04	5.8323D-02	5.8743D-02	0.107
1	-3.00	550	-5.034D+18	6.099D+01	-1.029	-77.8	-4.562D-04	1.270D-05	2.021	5.0314D-04	5.7825D-02	5.8328D-02	0.120
1	-2.80	550	-6.125D+18	7.248D+01	-1.026	-75.8	-4.412D-04	1.411D-05	2.031	6.0068D-04	5.7277D-02	5.7878D-02	0.134
1	-2.60	550	-7.447D+18	8.593D+01	-1.024	-73.7	-4.263D-04	1.562D-05	2.042	7.1598D-04	5.6677D-02	5.7393D-02	0.150
1	-2.40	550	-9.046D+18	1.016D+02	-1.021	-71.6	-4.116D-04	1.722D-05	2.054	8.5206D-04	5.6025D-02	5.6877D-02	0.166
1	-2.20	550	-1.098D+19	1.199D+02	-1.020	-69.5	-3.970D-04	1.890D-05	2.068	1.0123D-03	5.5323D-02	5.6335D-02	0.184
1	-2.00	550	-1.330D+19	1.411D+02	-1.018	-67.4	-3.825D-04	2.065D-05	2.084	1.2003D-03	5.4574D-02	5.5774D-02	0.204
1	-1.80	550	-1.609D+19	1.657D+02	-1.017	-65.4	-3.682D-04	2.245D-05	2.101	1.4205D-03	5.3781D-02	5.5202D-02	0.224
1	-1.60	550	-1.943D+19	1.939D+02	-1.016	-63.3	-3.540D-04	2.430D-05	2.120	1.6776D-03	5.2951D-02	5.4629D-02	0.245
1	-1.40	550	-2.341D+19	2.262D+02	-1.016	-61.3	-3.400D-04	2.616D-05	2.140	1.9765D-03	5.2092D-02	5.4069D-02	0.266
1	-1.20	550	-2.814D+19	2.632D+02	-1.015	-59.3	-3.262D-04	2.801D-05	2.162	2.3228D-03	5.1212D-02	5.3535D-02	0.288
1	-1.00	550	-3.372D+19	3.052D+02	-1.015	-57.3	-3.127D-04	2.983D-05	2.186	2.7223D-03	5.0320D-02	5.3043D-02	0.309
1	-0.80	550	-4.028D+19	3.526D+02	-1.015	-55.5	-2.993D-04	3.159D-05	2.211	3.1807D-03	4.9427D-02	5.2608D-02	0.330
1	-0.60	550	-4.793D+19	4.058D+02	-1.015	-53.6	-2.863D-04	3.326D-05	2.237	3.7041D-03	4.8543D-02	5.2247D-02	0.350
1	-0.40	550	-5.681D+19	4.653D+02	-1.015	-51.9	-2.736D-04	3.482D-05	2.263	4.2979D-03	4.7677D-02	5.1975D-02	0.368
1	-0.20	550	-6.703D+19	5.312D+02	-1.014	-50.2	-2.612D-04	3.623D-05	2.291	4.9672D-03	4.6838D-02	5.1806D-02	0.385
1	+0.00	550	-7.871D+19	6.038D+02	-1.014	-48.6	-2.492D-04	3.748D-05	2.320	5.7164D-03	4.6036D-02	5.1752D-02	0.398
1	+0.20	550	-9.195D+19	6.831D+02	-1.014	-47.0	-2.376D-04	3.856D-05	2.349	6.5487D-03	4.5276D-02	5.1824D-02	0.409
1	+0.40	550	-1.068D+20	7.692D+02	-1.014	-45.6	-2.264D-04	3.945D-05	2.378	7.4663D-03	4.4564D-02	5.2030D-02	0.417
1	+0.60	550	-1.235D+20	8.620D+02	-1.013	-44.2	-2.158D-04	4.014D-05	2.408	8.4710D-03	4.3902D-02	5.2373D-02	0.422
1	+0.80	550	-1.419D+20	9.611D+02	-1.013	-42.8	-2.056D-04	4.064D-05	2.437	9.5607D-03	4.3293D-02	5.2854D-02	0.423
1	+1.00	550	-1.621D+20	1.066D+03	-1.013	-41.6	-1.960D-04	4.096D-05	2.467	1.0735D-02	4.2738D-02	5.3473D-02	0.421
1	+1.20	550	-1.841D+20	1.177D+03	-1.012	-40.4	-1.868D-04	4.110D-05	2.496	1.1992D-02	4.2236D-02	5.4228D-02	0.417
1	+1.40	550	-2.080D+20	1.294D+03	-1.012	-39.3	-1.782D-04	4.109D-05	2.524	1.3328D-02	4.1785D-02	5.5113D-02	0.410
1	+1.60	550	-2.337D+20	1.415D+03	-1.011	-38.2	-1.701D-04	4.094D-05	2.552	1.4740D-02	4.1383D-02	5.6122D-02	0.401
1	+1.80	550	-2.612D+20	1.541D+03	-1.011	-37.2	-1.624D-04	4.066D-05	2.580	1.6225D-02	4.1026D-02	5.7250D-02	0.391
1	+2.00	550	-2.905D+20	1.671D+03	-1.010	-36.3	-1.553D-04	4.028D-05	2.607	1.7777D-02	4.0710D-02	5.8488D-02	0.379
1	+2.20	550	-3.214D+20	1.805D+03	-1.010	-35.4	-1.485D-04	3.981D-05	2.633	1.9394D-02	4.0434D-02	5.9828D-02	0.366
1	+2.40	550	-3.541D+20	1.942D+03	-1.010	-34.6	-1.422D-04	3.926D-05	2.658	2.1070D-02	4.0192D-02	6.1262D-02	0.352
1	+2.60	550	-3.884D+20	2.083D+03	-1.009	-33.8	-1.362D-04	3.866D-05	2.683	2.2803D-02	3.9981D-02	6.2784D-02	0.339
1	+2.80	550	-4.242D+20	2.226D+03	-1.009	-33.0	-1.307D-04	3.801D-05	2.706	2.4588D-02	3.9797D-02	6.4385D-02	0.325
1	+3.00	550	-4.616D+20	2.372D+03	-1.009	-32.3	-1.255D-04	3.734D-05	2.729	2.6420D-02	3.9638D-02	6.6058D-02	0.311
1	+3.20	550	-5.005D+20	2.520D+03	-1.008	-31.7	-1.206D-04	3.663D-05	2.751	2.8302D-02	3.9500D-02	6.7802D-02	0.297
1	+3.40	550	-5.408D+20	2.671D+03	-1.008	-31.1	-1.160D-04	3.592D-05	2.773	3.0225D-02	3.9381D-02	6.9606D-02	0.284
1	+3.60	550	-5.825D+20	2.824D+03	-1.007	-30.5	-1.116D-04	3.519D-05	2.793	3.2188D-02	3.9278D-02	7.1466D-02	0.271
1	+3.80	550	-6.255D+20	2.979D+03	-1.007	-29.9	-1.076D-04	3.446D-05	2.812	3.4188D-02	3.9190D-02	7.3378D-02	0.258
1	+4.00	550	-6.698D+20	3.135D+03	-1.007	-29.4	-1.037D-04	3.374D-05	2.831	3.6223D-02	3.9113D-02	7.5337D-02	0.246
1	+4.20	550	-7.154D+20	3.293D+03	-1.006	-28.9	-1.001D-04	3.302D-05	2.849	3.8292D-02	3.9047D-02	7.7339D-02	0.235
1	+4.40	550	-7.622D+20	3.453D+03	-1.006	-28.4	-9.674D-05	3.231D-05	2.866	4.0390D-02	3.8990D-02	7.9381D-02	0.224
1	+4.60	550	-8.103D+20	3.614D+03	-1.006	-28.0	-9.353D-05	3.161D-05	2.883	4.2518D-02	3.8941D-02	8.1459D-02	0.213
1	+4.80	550	-8.594D+20	3.776D+03	-1.006	-27.6	-9.050D-05	3.093D-05	2.899	4.4673D-02	3.8898D-02	8.3571D-02	0.204
1	+5.00	550	-9.098D+20	3.940D+03	-1.005	-27.2	-8.764D-05	3.026D-05	2.914	4.6853D-02	3.8862D-02	8.5715D-02	0.194
1	+5.20	550	-9.612D+20	4.105D+03	-1.005	-26.8	-8.492D-05	2.961D-05	2.927	4.9047D-02	3.8830D-02	8.7876D-02	0.185
1	+5.40	550	-1.014D+21	4.271D+03	-1.005	-26.4	-8.236D-05	2.897D-05	2.942	5.1283D-02	3.8802D-02	9.0085D-02	0.177
1	+5.60	550	-1.067D+21	4.439D+03	-1.005	-26.1	-7.992D-05	2.835D-05	2.955	5.3531D-02	3.8778D-02	9.2309D-02	0.169
1	+5.80	550	-1.122D+21	4.607D+03	-1.004	-25.7	-7.762D-05	2.776D-05	2.967	5.5779D-02	3.8757D-02	9.4536D-02	0.161
1	+6.00	550	-1.177D+21	4.777D+03	-1.004	-25.4	-7.541D-05	2.717D-05	2.980	5.8085D-02	3.8738D-02	9.6824D-02	0.154
1	+6.20	550	-1.234D+21	4.947D+03	-1.004	-25.1	-7.333D-05	2.660D-05	2.991	6.0390D-02	3.8722D-02	9.9112D-02	0.148
1	+6.40	550	-1.292D+21	5.118D+03	-1.004	-24.8	-7.134D-05	2.605D-05	3.002	6.2711D-02	3.8708D-02	1.0142D-01	0.141
1	+6.60	550	-1.350D+21	5.291D+03	-1.004	-24.5	-6.945D-05	2.552D-05	3.012	6.5047D-02	3.8696D-02	1.0374D-01	0.135
1	+6.80	550	-1.410D+21	5.464D+03	-1.003	-24.3	-6.764D-05	2.500D-05	3.022	6.7399D-02	3.8685D-02	1.0608D-01	0.130
1	+7.00	550	-1.470D+21	5.638D+03	-1.003	-24.0	-6.592D-05	2.450D-05	3.032	6.9765D-02	3.8675D-02	1.0844D-01	0.124
1	+7.20	550	-1.531D+21	5.813D+03	-1.003	-23.8	-6.428D-05	2.402D-05	3.041	7.2145D-02	3.8666D-02	1.1081D-01	0.119
1	+7.40	550	-1.593D+21	5.988D+03	-1.003	-23.5	-6.271D-05	2.355D-05	3.050	7.4538D-02	3.8658D-02	1.1320D-01	0.114
1	+7.60	550	-1.657D+21	6.165D+03	-1.003	-23.3	-6.120D-05	2.309D-05	3.058	7.6942D-02	3.8651D-02	1.1559D-01	0.110
1	+7.80	550	-1.720D+21	6.342D+03	-1.003	-23.1	-5.977D-05	2.265D-05	3.066	7.9359D-02	3.8645D-02	1.1800D-01	0.106
1	+8.00	550	-1.785D+21	6.520D+03	-1.002	-22.9	-5.839D-05	2.223D-05	3.074	8.1786D-02	3.8639D-02	1.2043D-01	0.102

x	Eg eV	Atomic-Spacing cm		Debye K	Sound-Velocity cm/s		Num-Density cm-3	Mass-Density g-cm-3						
1	0.150	0.8708	5.4650D-08	573.3	5.260D+05	4.901D+22	2.829D+00							
	mc+	mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-		
	1.399D+00	1.40D+00	2.938D+00	2.94D+00	2.740D+01	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00		
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT	
1	-5.00	800	-1.126D+18	1.086D+01	-0.826	-49.7	-5.142D-04	2.872D-06	X19.375	1.2490D-03	4.9984D-02	5.1233D-02	0.045	
1	-4.80	800	-1.409D+18	1.286D+01	-0.903	-51.4	-5.282D-04	3.587D-06	X14.144	1.0796D-03	4.9895D-02	5.0975D-02	0.056	
1	-4.60	800	-1.749D+18	1.532D+01	-0.956	-52.3	-5.330D-04	4.353D-06	X10.359	9.4238D-04	4.9793D-02	5.0735D-02	0.069	
1	-4.40	800	-2.158D+18	1.834D+01	-0.992	-52.6	-5.312D-04	5.174D-06	7.692	8.3725D-04	4.9675D-02	5.0512D-02	0.082	
1	-4.20	800	-2.653D+18	2.199D+01	-1.014	-52.5	-5.249D-04	6.058D-06	5.845	7.6303D-04	4.9538D-02	5.0301D-02	0.096	
1	-4.00	800	-3.252D+18	2.640D+01	-1.028	-52.1	-5.155D-04	7.016D-06	4.582	7.1821D-04	4.9385D-02	5.0103D-02	0.112	
1	-3.80	800	-3.979D+18	3.171D+01	-1.036	-51.5	-5.040D-04	8.055D-06	3.726	7.0151D-04	4.9205D-02	4.9906D-02	0.129	
1	-3.60	800	-4.862D+18	3.808D+01	-1.039	-50.8	-4.911D-04	9.184D-06	3.151	7.1214D-04	4.8999D-02	4.9712D-02	0.148	
1	-3.40	800	-5.935D+18	4.568D+01	-1.040	-50.0	-4.774D-04	1.041D-05	2.766	7.5002D-04	4.8767D-02	4.9517D-02	0.168	
1	-3.20	800	-7.238D+18	5.473D+01	-1.039	-49.1	-4.631D-04	1.174D-05	2.511	8.1580D-04	4.8505D-02	4.9320D-02	0.190	
1	-3.00	800	-8.818D+18	6.549D+01	-1.037	-48.1	-4.485D-04	1.317D-05	2.343	9.1093D-04	4.8210D-02	4.9121D-02	0.215	
1	-2.80	800	-1.074D+19	7.823D+01	-1.035	-47.1	-4.337D-04	1.472D-05	2.234	1.0377D-03	4.7881D-02	4.8919D-02	0.241	
1	-2.60	800	-1.306D+19	9.328D+01	-1.032	-46.0	-4.189D-04	1.637D-05	2.166	1.1991D-03	4.7517D-02	4.8716D-02	0.269	
1	-2.40	800	-1.586D+19	1.110D+02	-1.029	-45.0	-4.041D-04	1.812D-05	2.124	1.3993D-03	4.7116D-02	4.8515D-02	0.299	
1	-2.20	800	-1.925D+19	1.317D+02	-1.027	-43.9	-3.893D-04	1.997D-05	2.101	1.6431D-03	4.6678D-02	4.8321D-02	0.331	
1	-2.00	800	-2.333D+19	1.560D+02	-1.024	-42.8	-3.747D-04	2.190D-05	2.091	1.9362D-03	4.6204D-02	4.8141D-02	0.364	
1	-1.80	800	-2.822D+19	1.843D+02	-1.022	-41.6	-3.601D-04	2.390D-05	2.089	2.2854D-03	4.5696D-02	4.7981D-02	0.398	
1	-1.60	800	-3.408D+19	2.170D+02	-1.020	-40.5	-3.458D-04	2.595D-05	2.095	2.6985D-03	4.5157D-02	4.7856D-02	0.434	
1	-1.40	800	-4.107D+19	2.548D+02	-1.018	-39.4	-3.316D-04	2.803D-05	2.105	3.1839D-03	4.4590D-02	4.7774D-02	0.469	
1	-1.20	800	-4.936D+19	2.982D+02	-1.016	-38.3	-3.177D-04	3.010D-05	2.119	3.7511D-03	4.4001D-02	4.7752D-02	0.504	
1	-1.00	800	-5.915D+19	3.479D+02	-1.015	-37.3	-3.040D-04	3.214D-05	2.136	4.4099D-03	4.3397D-02	4.7807D-02	0.538	
1	-0.80	800	-7.065D+19	4.042D+02	-1.013	-36.2	-2.906D-04	3.412D-05	2.155	5.1708D-03	4.2784D-02	4.7955D-02	0.569	
1	-0.60	800	-8.408D+19	4.678D+02	-1.012	-35.2	-2.774D-04	3.601D-05	2.176	6.0438D-03	4.2170D-02	4.8214D-02	0.597	
1	-0.40	800	-9.965D+19	5.392D+02	-1.011	-34.2	-2.647D-04	3.777D-05	2.199	7.0392D-03	4.1563D-02	4.8602D-02	0.622	
1	-0.20	800	-1.176D+20	6.186D+02	-1.010	-33.2	-2.523D-04	3.936D-05	2.224	8.1664D-03	4.0971D-02	4.9137D-02	0.641	
1	+0.00	800	-1.381D+20	7.063D+02	-1.010	-32.2	-2.403D-04	4.078D-05	2.250	9.4333D-03	4.0399D-02	4.9832D-02	0.655	
1	+0.20	800	-1.613D+20	8.025D+02	-1.009	-31.3	-2.288D-04	4.199D-05	2.277	1.0847D-02	3.9854D-02	5.0701D-02	0.663	
1	+0.40	800	-1.874D+20	9.072D+02	-1.008	-30.5	-2.177D-04	4.299D-05	2.305	1.2412D-02	3.9342D-02	5.1753D-02	0.665	
1	+0.60	800	-2.166D+20	1.020D+03	-1.008	-29.6	-2.071D-04	4.377D-05	2.333	1.4130D-02	3.8865D-02	5.2950D-02	0.661	
1	+0.80	800	-2.489D+20	1.141D+03	-1.007	-28.8	-1.971D-04	4.432D-05	2.362	1.6006D-02	3.8425D-02	5.4431D-02	0.651	
1	+1.00	800	-2.843D+20	1.270D+03	-1.007	-28.1	-1.875D-04	4.467D-05	2.391	1.8032D-02	3.8024D-02	5.6056D-02	0.637	
1	+1.20	800	-3.230D+20	1.406D+03	-1.006	-27.3	-1.785D-04	4.481D-05	2.421	2.0207D-02	3.7662D-02	5.7869D-02	0.620	
1	+1.40	800	-3.649D+20	1.549D+03	-1.006	-26.7	-1.700D-04	4.478D-05	2.450	2.2530D-02	3.7338D-02	5.9868D-02	0.598	
1	+1.60	800	-4.100D+20	1.698D+03	-1.005	-26.0	-1.620D-04	4.458D-05	2.479	2.4993D-02	3.7050D-02	6.2043D-02	0.575	
1	+1.80	800	-4.582D+20	1.853D+03	-1.005	-25.4	-1.545D-04	4.424D-05	2.508	2.7589D-02	3.6795D-02	6.4384D-02	0.550	
1	+2.00	800	-5.095D+20	2.013D+03	-1.005	-24.8	-1.475D-04	4.377D-05	2.536	3.0314D-02	3.6572D-02	6.6886D-02	0.524	
1	+2.20	800	-5.639D+20	2.178D+03	-1.004	-24.2	-1.408D-04	4.321D-05	2.564	3.3157D-02	3.6377D-02	6.9534D-02	0.497	
1	+2.40	800	-6.212D+20	2.348D+03	-1.004	-23.7	-1.346D-04	4.256D-05	2.591	3.6114D-02	3.6208D-02	7.2322D-02	0.471	
1	+2.60	800	-6.813D+20	2.521D+03	-1.004	-23.2	-1.288D-04	4.185D-05	2.618	3.9177D-02	3.6061D-02	7.5238D-02	0.445	
1	+2.80	800	-7.442D+20	2.698D+03	-1.004	-22.7	-1.234D-04	4.108D-05	2.644	4.2339D-02	3.5935D-02	7.8273D-02	0.420	
1	+3.00	800	-8.098D+20	2.878D+03	-1.003	-22.3	-1.183D-04	4.028D-05	2.669	4.5593D-02	3.5826D-02	8.1418D-02	0.396	
1	+3.20	800	-8.780D+20	3.061D+03	-1.003	-21.8	-1.135D-04	3.945D-05	2.693	4.8933D-02	3.5732D-02	8.4665D-02	0.373	
1	+3.40	800	-9.487D+20	3.246D+03	-1.003	-21.4	-1.091D-04	3.861D-05	2.717	5.2353D-02	3.5653D-02	8.8006D-02	0.351	
1	+3.60	800	-1.022D+21	3.434D+03	-1.003	-21.0	-1.049D-04	3.776D-05	2.739	5.5849D-02	3.5584D-02	9.1433D-02	0.330	
1	+3.80	800	-1.097D+21	3.625D+03	-1.003	-20.7	-1.009D-04	3.691D-05	2.761	5.9414D-02	3.5526D-02	9.4940D-02	0.311	
1	+4.00	800	-1.175D+21	3.817D+03	-1.002	-20.3	-9.720D-05	3.607D-05	2.782	6.3044D-02	3.5476D-02	9.8520D-02	0.293	
1	+4.20	800	-1.255D+21	4.012D+03	-1.002	-20.0	-9.371D-05	3.523D-05	2.802	6.6735D-02	3.5433D-02	1.0217D-01	0.276	
1	+4.40	800	-1.337D+21	4.208D+03	-1.002	-19.7	-9.042D-05	3.440D-05	2.822	7.0481D-02	3.5396D-02	1.0588D-01	0.260	
1	+4.60	800	-1.421D+21	4.406D+03	-1.002	-19.4	-8.732D-05	3.359D-05	2.840	7.4279D-02	3.5365D-02	1.0964D-01	0.245	
1	+4.80	800	-1.508D+21	4.605D+03	-1.002	-19.1	-8.440D-05	3.280D-05	2.858	7.8126D-02	3.5339D-02	1.1346D-01	0.231	
1	+5.00	800	-1.596D+21	4.806D+03	-1.002	-18.8	-8.164D-05	3.203D-05	2.875	8.2017D-02	3.5316D-02	1.1733D-01	0.218	
1	+5.20	800	-1.686D+21	5.008D+03	-1.002	-18.6	-7.903D-05	3.128D-05	2.891	8.5951D-02	3.5296D-02	1.2125D-01	0.206	
1	+5.40	800	-1.778D+21	5.211D+03	-1.002	-18.3	-7.656D-05	3.055D-05	2.907	8.9923D-02	3.5279D-02	1.2520D-01	0.195	
1	+5.60	800	-1.872D+21	5.416D+03	-1.001	-18.1	-7.422D-05	2.984D-05	2.922	9.3932D-02	3.5265D-02	1.2920D-01	0.185	
1	+5.80	800	-1.968D+21	5.622D+03	-1.001	-17.9	-7.201D-05	2.915D-05	2.936	9.7974D-02	3.5252D-02	1.3323D-01	0.175	
1	+6.00	800	-2.066D+21	5.828D+03	-1.001	-17.6	-6.990D-05	2.848D-05	2.949	1.0205D-01	3.5241D-02	1.3729D-01	0.166	
1	+6.20	800	-2.165D+21	6.036D+03	-1.001	-17.4	-6.791D-05	2.783D-05	2.962	1.0615D-01	3.5232D-02	1.4138D-01	0.157	
1	+6.40	800	-2.266D+21	6.245D+03	-1.001	-17.2	-6.601D-05	2.721D-05	2.975	1.1028D-01	3.5223D-02	1.4550D-01	0.150	
1	+6.60	800	-2.369D+21	6.455D+03	-1.001	-17.0	-6.420D-05	2.660D-05	2.987	1.1444D-01	3.5216D-02	1.4965D-01	0.142	
1	+6.80	800	-2.473D+21	6.665D+03	-1.001	-16.8	-6.248D-05	2.602D-05	2.998	1.1862D-01	3.5210D-02	1.5383D-01	0.135	
1	+7.00	800	-2.579D+21	6.876D+03	-1.001	-16.7	-6.084D-05	2.546D-05	3.009	1.2282D-01	3.5204D-02	1.5802D-01	0.129	
1	+7.20	800	-2.686D+21	7.089D+03	-1.001	-16.5	-5.928D-05	2.491D-05	3.019	1.2704D-01	3.5200D-02	1.6224D-01	0.123	
1	+7.40	800	-2.795D+21	7.301D+03	-1.001	-16.3	-5.779D-05	2.438D-05	3.029	1.3128D-01	3.5195D-02	1.6648D-01	0.117	
1	+7.60	800	-2.906D+21	7.515D+03	-1.001	-16.2	-5.636D-05	2.388D-05	3.038	1.3554D-01	3.5191D-02	1.7074D-01	0.112	
1	+7.80	800	-3.018D+21	7.730D+03	-1.001	-16.0	-5.500D-05	2.338D-05	3.047	1.3982D-01	3.5188D-02	1.7501D-01	0.107	
1	+8.00	800	-3.132D+21	7.945D+03	-1.001	-15.8	-5.369D-05	2.291D-05	3.056	1.4415D-01	3.5185D-02	1.7934D-01	0.102	

x	Eg eV	Atomic-Spacing cm	Debye K	Sound-Velocity cm/s	Num-Density cm-3	Mass-Density g-cm-3							
1.399D+00	0.8080	5.4650D-08	573.3	5.260D+05	4.901D+22	2.829D+00	gamma+	gamma-	beta+	beta-			
mc+	mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-		
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT
1	-5.00	1050	+3.452D+18	3.916D+01	+0.263	+18.6	+2.304D-04	2.078D-06	X34.686	1.0583D-02	4.3126D-02	5.3709D-02	0.041
1	-4.80	1050	+2.098D+18	3.681D+01	+0.115	+12.6	+1.524D-04	8.546D-07	X40.240	1.1541D-02	4.3061D-02	5.4602D-02	0.016
1	-4.60	1050	+8.267D+17	3.598D+01	+0.020	+5.4	+6.263D-05	1.411D-07	X43.533	1.2203D-02	4.2995D-02	5.5198D-02	0.003
1	-4.40	1050	-4.126D+17	3.606D+01	-0.005	-2.8	-3.137D-05	3.548D-08	X43.925	1.2343D-02	4.2919D-02	5.5262D-02	0.001
1	-4.20	1050	-1.668D+18	3.636D+01	-0.076	-10.3	-1.235D-04	5.542D-07	X41.652	1.1800D-02	4.2831D-02	5.4631D-02	0.011
1	-4.00	1050	-2.989D+18	3.821D+01	-0.210	-16.8	-2.060D-04	1.622D-06	X36.704	1.0927D-02	4.2733D-02	5.3660D-02	0.032
1	-3.80	1050	-4.426D+18	4.156D+01	-0.373	-21.8	-2.736D-04	3.110D-06	X30.398	9.8426D-03	4.2615D-02	5.2457D-02	0.062
1	-3.60	1050	-6.036D+18	4.645D+01	-0.533	-25.6	-3.242D-04	4.882D-06	X23.992	8.6827D-03	4.2480D-02	5.1163D-02	0.100
1	-3.40	1050	-7.879D+18	5.300D+01	-0.671	-28.2	-3.588D-04	6.823D-06	X18.314	7.5632D-03	4.2326D-02	4.9889D-02	0.144
1	-3.20	1050	-1.003D+19	6.139D+01	-0.781	-29.8	-3.799D-04	8.859D-06	X13.719	6.5621D-03	4.2151D-02	4.8713D-02	0.191
1	-3.00	1050	-1.256D+19	7.183D+01	-0.861	-30.7	-3.904D-04	1.095D-05	X10.224	5.7221D-03	4.1954D-02	4.7676D-02	0.241
1	-2.80	1050	-1.557D+19	8.461D+01	-0.918	-31.1	-3.930D-04	1.307D-05	7.677	5.0606D-03	4.1732D-02	4.6793D-02	0.293
1	-2.60	1050	-1.916D+19	1.000D+02	-0.956	-31.2	-3.901D-04	1.522D-05	5.875	4.5793D-03	4.1484D-02	4.6064D-02	0.347
1	-2.40	1050	-2.347D+19	1.185D+02	-0.982	-30.9	-3.833D-04	1.741D-05	4.628	4.2727D-03	4.1209D-02	4.5482D-02	0.402
1	-2.20	1050	-2.863D+19	1.404D+02	-0.998	-30.5	-3.738D-04	1.963D-05	3.777	4.1331D-03	4.0906D-02	4.5040D-02	0.458
1	-2.00	1050	-3.482D+19	1.664D+02	-1.007	-30.0	-3.627D-04	2.188D-05	3.205	4.1536D-03	4.0576D-02	4.4729D-02	0.514
1	-1.80	1050	-4.223D+19	1.968D+02	-1.013	-29.5	-3.504D-04	2.416D-05	2.824	4.3293D-03	4.0218D-02	4.4547D-02	0.570
1	-1.60	1050	-5.108D+19	2.323D+02	-1.015	-28.8	-3.375D-04	2.646D-05	2.574	4.6586D-03	3.9834D-02	4.4493D-02	0.625
1	-1.40	1050	-6.161D+19	2.735D+02	-1.016	-28.2	-3.243D-04	2.876D-05	2.414	5.1429D-03	3.9429D-02	4.4572D-02	0.678
1	-1.20	1050	-7.410D+19	3.211D+02	-1.016	-27.5	-3.109D-04	3.104D-05	2.313	5.7865D-03	3.9003D-02	4.4789D-02	0.728
1	-1.00	1050	-8.885D+19	3.757D+02	-1.016	-26.8	-2.976D-04	3.327D-05	2.253	6.5955D-03	3.8561D-02	4.5157D-02	0.774
1	-0.80	1050	-1.062D+20	4.380D+02	-1.015	-26.1	-2.843D-04	3.541D-05	2.221	7.5802D-03	3.8110D-02	4.5690D-02	0.814
1	-0.60	1050	-1.264D+20	5.086D+02	-1.014	-25.5	-2.713D-04	3.744D-05	2.208	8.7487D-03	3.7655D-02	4.6404D-02	0.847
1	-0.40	1050	-1.498D+20	5.879D+02	-1.013	-24.8	-2.586D-04	3.933D-05	2.208	1.0113D-02	3.7201D-02	4.7314D-02	0.873
1	-0.20	1050	-1.768D+20	6.765D+02	-1.012	-24.2	-2.463D-04	4.104D-05	2.216	1.1683D-02	3.6756D-02	4.8439D-02	0.890
1	+0.00	1050	-2.076D+20	7.747D+02	-1.011	-23.5	-2.343D-04	4.254D-05	2.232	1.3469D-02	3.6324D-02	4.9793D-02	0.897
1	+0.20	1050	-2.425D+20	8.825D+02	-1.010	-22.9	-2.228D-04	4.382D-05	2.251	1.5479D-02	3.5910D-02	5.1389D-02	0.895
1	+0.40	1050	-2.818D+20	1.000D+03	-1.009	-22.3	-2.118D-04	4.487D-05	2.274	1.7719D-02	3.5520D-02	5.3239D-02	0.885
1	+0.60	1050	-3.257D+20	1.127D+03	-1.008	-21.8	-2.013D-04	4.567D-05	2.299	2.0192D-02	3.5155D-02	5.5347D-02	0.866
1	+0.80	1050	-3.742D+20	1.263D+03	-1.007	-21.2	-1.913D-04	4.623D-05	2.326	2.2898D-02	3.4819D-02	5.7717D-02	0.841
1	+1.00	1050	-4.275D+20	1.409D+03	-1.006	-20.7	-1.818D-04	4.656D-05	2.354	2.5839D-02	3.4513D-02	6.0352D-02	0.810
1	+1.20	1050	-4.857D+20	1.562D+03	-1.006	-20.2	-1.728D-04	4.667D-05	2.383	2.9003D-02	3.4236D-02	6.3239D-02	0.775
1	+1.40	1050	-5.487D+20	1.724D+03	-1.005	-19.7	-1.644D-04	4.658D-05	2.412	3.2389D-02	3.3988D-02	6.6377D-02	0.737
1	+1.60	1050	-6.165D+20	1.892D+03	-1.005	-19.2	-1.565D-04	4.632D-05	2.441	3.5989D-02	3.3768D-02	6.9757D-02	0.697
1	+1.80	1050	-6.890D+20	2.067D+03	-1.004	-18.8	-1.490D-04	4.591D-05	2.471	3.9790D-02	3.3574D-02	7.3365D-02	0.657
1	+2.00	1050	-7.662D+20	2.248D+03	-1.004	-18.4	-1.420D-04	4.536D-05	2.500	4.3790D-02	3.3405D-02	7.7194D-02	0.617
1	+2.20	1050	-8.479D+20	2.435D+03	-1.004	-18.0	-1.355D-04	4.471D-05	2.529	4.7969D-02	3.3258D-02	8.1227D-02	0.578
1	+2.40	1050	-9.340D+20	2.626D+03	-1.003	-17.6	-1.294D-04	4.397D-05	2.557	5.2321D-02	3.3130D-02	8.5451D-02	0.540
1	+2.60	1050	-1.024D+21	2.822D+03	-1.003	-17.2	-1.237D-04	4.316D-05	2.585	5.6835D-02	3.3020D-02	8.9855D-02	0.504
1	+2.80	1050	-1.119D+21	3.022D+03	-1.003	-16.9	-1.183D-04	4.230D-05	2.612	6.1499D-02	3.2926D-02	9.4424D-02	0.470
1	+3.00	1050	-1.218D+21	3.225D+03	-1.002	-16.6	-1.133D-04	4.140D-05	2.639	6.6303D-02	3.2845D-02	9.9148D-02	0.438
1	+3.20	1050	-1.320D+21	3.432D+03	-1.002	-16.3	-1.086D-04	4.048D-05	2.664	7.1226D-02	3.2776D-02	1.0400D-01	0.409
1	+3.40	1050	-1.426D+21	3.641D+03	-1.002	-16.0	-1.042D-04	3.954D-05	2.689	7.6295D-02	3.2717D-02	1.0901D-01	0.381
1	+3.60	1050	-1.536D+21	3.854D+03	-1.002	-15.7	-1.001D-04	3.860D-05	2.714	8.1495D-02	3.2667D-02	1.1416D-01	0.355
1	+3.80	1050	-1.650D+21	4.068D+03	-1.002	-15.4	-9.622D-05	3.766D-05	2.736	8.6739D-02	3.2624D-02	1.1936D-01	0.331
1	+4.00	1050	-1.767D+21	4.285D+03	-1.002	-15.2	-9.258D-05	3.673D-05	2.759	9.2109D-02	3.2588D-02	1.2470D-01	0.309
1	+4.20	1050	-1.887D+21	4.504D+03	-1.001	-14.9	-8.917D-05	3.582D-05	2.780	9.7569D-02	3.2557D-02	1.3013D-01	0.289
1	+4.40	1050	-2.011D+21	4.725D+03	-1.001	-14.7	-8.596D-05	3.491D-05	2.801	1.0311D-01	3.2531D-02	1.3564D-01	0.270
1	+4.60	1050	-2.137D+21	4.947D+03	-1.001	-14.5	-8.294D-05	3.403D-05	2.821	1.0873D-01	3.2509D-02	1.4124D-01	0.253
1	+4.80	1050	-2.267D+21	5.171D+03	-1.001	-14.3	-8.009D-05	3.317D-05	2.840	1.1442D-01	3.2490D-02	1.4691D-01	0.237
1	+5.00	1050	-2.400D+21	5.397D+03	-1.001	-14.1	-7.740D-05	3.233D-05	2.858	1.2017D-01	3.2474D-02	1.5264D-01	0.222
1	+5.20	1050	-2.535D+21	5.624D+03	-1.001	-13.9	-7.487D-05	3.152D-05	2.875	1.2598D-01	3.2460D-02	1.5844D-01	0.209
1	+5.40	1050	-2.674D+21	5.852D+03	-1.001	-13.7	-7.247D-05	3.073D-05	2.892	1.3185D-01	3.2448D-02	1.6430D-01	0.196
1	+5.60	1050	-2.815D+21	6.081D+03	-1.001	-13.5	-7.019D-05	2.996D-05	2.909	1.3784D-01	3.2438D-02	1.7028D-01	0.185
1	+5.80	1050	-2.959D+21	6.311D+03	-1.001	-13.3	-6.806D-05	2.923D-05	2.923	1.4373D-01	3.2429D-02	1.7616D-01	0.174
1	+6.00	1050	-3.106D+21	6.542D+03	-1.001	-13.2	-6.602D-05	2.852D-05	2.938	1.4974D-01	3.2422D-02	1.8216D-01	0.164
1	+6.20	1050	-3.255D+21	6.775D+03	-1.001	-13.0	-6.409D-05	2.783D-05	2.951	1.5579D-01	3.2416D-02	1.8821D-01	0.155
1	+6.40	1050	-3.407D+21	7.008D+03	-1.001	-12.8	-6.226D-05	2.716D-05	2.965	1.6187D-01	3.2410D-02	1.9428D-01	0.147
1	+6.60	1050	-3.561D+21	7.242D+03	-1.001	-12.7	-6.052D-05	2.652D-05	2.977	1.6799D-01	3.2405D-02	2.0040D-01	0.139
1	+6.80	1050	-3.718D+21	7.477D+03	-1.001	-12.6	-5.886D-05	2.590D-05	2.989	1.7414D-01	3.2401D-02	2.0654D-01	0.132
1	+7.00	1050	-3.878D+21	7.712D+03	-1.000	-12.4	-5.728D-05	2.531D-05	3.001	1.8032D-01	3.2397D-02	2.1271D-01	0.125
1	+7.20	1050	-4.039D+21	7.948D+03	-1.000	-12.3	-5.578D-05	2.473D-05	3.012	1.8652D-01	3.2394D-02	2.1891D-01	0.119
1	+7.40	1050	-4.203D+21	8.185D+03	-1.000	-12.2	-5.435D-05	2.418D-05	3.022	1.9275D-01	3.2391D-02	2.2514D-01	0.113
1	+7.60	1050	-4.370D+21	8.423D+03	-1.000	-12.0	-5.298D-05	2.364D-05	3.032	1.9900D-01	3.2389D-02	2.3139D-01	0.107
1	+7.80	1050	-4.538D+21	8.661D+03	-1.000	-11.9	-5.167D-05	2.313D-05	3.042	2.0527D-01	3.2387D-02	2.3766D-01	0.102
1	+8.00	1050	-4.709D+21	8.900D+03	-1.000	-11.8	-5.043D-05	2.264D-05	3.049	2.1147D-01	3.2385D-02	2.4385D-01	0.097

PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT	Eg Atomic-Spacing Debye Sound-Velocity Num-Density Mass-Density				
														x	eV	cm	K	cm/s
1	0.150	0.7453	5.4650D-08	573.3	5.260D+05	4.901D+22	2.829D+00											
	mc+	mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-						
1.399D+00	1.40D+00	2.938D+00	2.94D+00	2.740D+01	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00							
1	-5.00	1300	+6.454D+19	2.393D+02	+0.907	+21.0	+3.095D-04	2.293D-05	6.040	1.3945D-02	3.8323D-02	5.2268D-02	0.570					
1	-4.80	1300	+5.243D+19	2.055D+02	+0.850	+20.8	+3.091D-04	1.963D-05	7.808	1.5475D-02	3.8283D-02	5.3758D-02	0.475					
1	-4.60	1300	+4.211D+19	1.774D+02	+0.771	+20.3	+3.022D-04	1.620D-05	X13.233	1.7510D-02	3.8236D-02	5.5746D-02	0.378					
1	-4.40	1300	+3.325D+19	1.546D+02	+0.664	+19.3	+2.866D-04	1.270D-05	X13.415	2.0010D-02	3.8182D-02	5.8191D-02	0.284					
1	-4.20	1300	+2.559D+19	1.367D+02	+0.528	+17.6	+2.599D-04	9.235D-06	X17.335	2.2867D-02	3.8119D-02	6.0986D-02	0.197					
1	-4.00	1300	+1.884D+19	1.235D+02	+0.370	+15.1	+2.199D-04	5.970D-06	X21.734	2.5883D-02	3.8046D-02	6.3929D-02	0.121					
1	-3.80	1300	+1.279D+19	1.146D+02	+0.210	+11.7	+1.661D-04	3.160D-06	X26.024	2.8761D-02	3.7962D-02	6.6723D-02	0.062					
1	-3.60	1300	+7.211D+18	1.101D+02	+0.077	+7.4	+1.001D-04	1.104D-06	X29.325	3.1148D-02	3.7865D-02	6.9013D-02	0.021					
1	-3.40	1300	+1.898D+18	1.105D+02	+0.006	+2.1	+2.689D-05	7.991D-08	X30.717	3.2753D-02	3.7755D-02	7.0508D-02	0.001					
1	-3.20	1300	-3.345D+18	1.099D+02	-0.018	-3.6	-4.738D-05	2.467D-07	X30.570	3.2397D-02	3.7629D-02	7.0026D-02	0.005					
1	-3.00	1300	-8.712D+18	1.109D+02	-0.109	-8.6	-1.193D-04	1.577D-06	X28.570	3.0560D-02	3.7486D-02	6.8046D-02	0.030					
1	-2.80	1300	-1.440D+19	1.166D+02	-0.252	-12.8	-1.822D-04	3.871D-06	X24.901	2.8003D-02	3.7325D-02	6.5328D-02	0.077					
1	-2.60	1300	-2.062D+19	1.267D+02	-0.415	-15.9	-2.323D-04	6.836D-06	X20.502	2.5053D-02	3.7144D-02	6.2197D-02	0.143					
1	-2.40	1300	-2.760D+19	1.412D+02	-0.568	-18.1	-2.685D-04	1.018D-05	X16.191	2.2054D-02	3.6942D-02	5.8996D-02	0.224					
1	-2.20	1300	-3.556D+19	1.604D+02	-0.696	-19.6	-2.920D-04	1.367D-05	X12.462	1.9280D-02	3.6718D-02	5.5998D-02	0.317					
1	-2.00	1300	-4.479D+19	1.846D+02	-0.795	-20.5	-3.049D-04	1.716D-05	9.493	1.6901D-02	3.6473D-02	5.3374D-02	0.418					
1	-1.80	1300	-5.557D+19	2.142D+02	-0.868	-20.9	-3.098D-04	2.055D-05	7.262	1.5003D-02	3.6205D-02	5.1208D-02	0.522					
1	-1.60	1300	-6.823D+19	2.498D+02	-0.919	-21.0	-3.088D-04	2.381D-05	5.650	1.3613D-02	3.5916D-02	4.9529D-02	0.625					
1	-1.40	1300	-8.313D+19	2.919D+02	-0.953	-20.9	-3.037D-04	2.692D-05	4.518	1.2724D-02	3.5608D-02	4.8332D-02	0.724					
1	-1.20	1300	-1.007D+20	3.413D+02	-0.976	-20.7	-2.958D-04	2.986D-05	3.740	1.2313D-02	3.5284D-02	4.7597D-02	0.816					
1	-1.00	1300	-1.212D+20	3.986D+02	-0.990	-20.3	-2.861D-04	3.262D-05	3.213	1.2355D-02	3.4945D-02	4.7300D-02	0.897					
1	-0.80	1300	-1.453D+20	4.644D+02	-0.999	-19.9	-2.753D-04	3.520D-05	2.863	1.2826D-02	3.4597D-02	4.7423D-02	0.965					
1	-0.60	1300	-1.733D+20	5.394D+02	-1.005	-19.5	-2.639D-04	3.757D-05	2.634	1.3705D-02	3.4243D-02	4.7949D-02	1.019					
1	-0.40	1300	-2.057D+20	6.241D+02	-1.008	-19.1	-2.523D-04	3.973D-05	2.488	1.4978D-02	3.3889D-02	4.8867D-02	1.057					
1	-0.20	1300	-2.430D+20	7.191D+02	-1.009	-18.6	-2.406D-04	4.164D-05	2.398	1.6634D-02	3.3540D-02	5.0174D-02	1.079					
1	+0.00	1300	-2.855D+20	8.245D+02	-1.010	-18.2	-2.292D-04	4.330D-05	2.347	1.8666D-02	3.3199D-02	5.1865D-02	1.085					
1	+0.20	1300	-3.337D+20	9.406D+02	-1.010	-17.8	-2.180D-04	4.469D-05	2.322	2.1066D-02	3.2873D-02	5.3939D-02	1.077					
1	+0.40	1300	-3.879D+20	1.067D+03	-1.009	-17.3	-2.072D-04	4.581D-05	2.314	2.3830D-02	3.2563D-02	5.6393D-02	1.056					
1	+0.60	1300	-4.484D+20	1.205D+03	-1.009	-16.9	-1.968D-04	4.665D-05	2.319	2.6950D-02	3.2274D-02	5.9223D-02	1.024					
1	+0.80	1300	-5.153D+20	1.352D+03	-1.008	-16.5	-1.869D-04	4.722D-05	2.332	3.0419D-02	3.2006D-02	6.2425D-02	0.983					
1	+1.00	1300	-5.888D+20	1.509D+03	-1.008	-16.1	-1.775D-04	4.754D-05	2.351	3.4231D-02	3.1762D-02	6.5993D-02	0.937					
1	+1.20	1300	-6.690D+20	1.675D+03	-1.007	-15.7	-1.686D-04	4.763D-05	2.374	3.8366D-02	3.1542D-02	6.9908D-02	0.886					
1	+1.40	1300	-7.558D+20	1.850D+03	-1.006	-15.4	-1.602D-04	4.750D-05	2.399	4.2815D-02	3.1345D-02	7.4160D-02	0.833					
1	+1.60	1300	-8.492D+20	2.033D+03	-1.006	-15.0	-1.524D-04	4.719D-05	2.426	4.7568D-02	3.1170D-02	7.8739D-02	0.779					
1	+1.80	1300	-9.491D+20	2.222D+03	-1.005	-14.7	-1.450D-04	4.671D-05	2.454	5.2604D-02	3.1016D-02	8.3621D-02	0.726					
1	+2.00	1300	-1.055D+21	2.419D+03	-1.005	-14.4	-1.381D-04	4.610D-05	2.482	5.7918D-02	3.0882D-02	8.8800D-02	0.675					
1	+2.20	1300	-1.168D+21	2.621D+03	-1.004	-14.1	-1.316D-04	4.537D-05	2.511	6.3482D-02	3.0766D-02	9.4248D-02	0.626					
1	+2.40	1300	-1.287D+21	2.828D+03	-1.004	-13.8	-1.255D-04	4.456D-05	2.540	6.9286D-02	3.0665D-02	9.9951D-02	0.580					
1	+2.60	1300	-1.411D+21	3.040D+03	-1.004	-13.5	-1.198D-04	4.367D-05	2.568	7.5311D-02	3.0579D-02	1.0589D-01	0.536					
1	+2.80	1300	-1.542D+21	3.257D+03	-1.003	-13.2	-1.145D-04	4.273D-05	2.596	8.1545D-02	3.0504D-02	1.1205D-01	0.496					
1	+3.00	1300	-1.677D+21	3.477D+03	-1.003	-13.0	-1.096D-04	4.176D-05	2.623	8.7971D-02	3.0441D-02	1.1841D-01	0.458					
1	+3.20	1300	-1.819D+21	3.701D+03	-1.003	-12.7	-1.050D-04	4.077D-05	2.649	9.4562D-02	3.0387D-02	1.2495D-01	0.424					
1	+3.40	1300	-1.965D+21	3.927D+03	-1.003	-12.5	-1.006D-04	3.976D-05	2.675	1.0134D-01	3.0341D-02	1.3169D-01	0.393					
1	+3.60	1300	-2.117D+21	4.157D+03	-1.002	-12.3	-9.655D-05	3.875D-05	2.701	1.0830D-01	3.0303D-02	1.3860D-01	0.363					
1	+3.80	1300	-2.273D+21	4.389D+03	-1.002	-12.1	-9.274D-05	3.775D-05	2.724	1.1533D-01	3.0270D-02	1.4560D-01	0.337					
1	+4.00	1300	-2.434D+21	4.623D+03	-1.002	-11.9	-8.917D-05	3.676D-05	2.747	1.2252D-01	3.0242D-02	1.5276D-01	0.313					
1	+4.20	1300	-2.600D+21	4.859D+03	-1.002	-11.7	-8.582D-05	3.579D-05	2.770	1.2983D-01	3.0218D-02	1.6005D-01	0.291					
1	+4.40	1300	-2.770D+21	5.097D+03	-1.002	-11.5	-8.266D-05	3.483D-05	2.791	1.3725D-01	3.0198D-02	1.6745D-01	0.270					
1	+4.60	1300	-2.944D+21	5.337D+03	-1.002	-11.3	-7.970D-05	3.390D-05	2.812	1.4477D-01	3.0181D-02	1.7495D-01	0.252					
1	+4.80	1300	-3.123D+21	5.578D+03	-1.002	-11.2	-7.691D-05	3.300D-05	2.832	1.5238D-01	3.0167D-02	1.8255D-01	0.235					
1	+5.00	1300	-3.306D+21	5.821D+03	-1.001	-11.0	-7.428D-05	3.212D-05	2.851	1.6007D-01	3.0155D-02	1.9023D-01	0.219					
1	+5.20	1300	-3.493D+21	6.065D+03	-1.001	-10.9	-7.180D-05	3.127D-05	2.869	1.6785D-01	3.0144D-02	1.9799D-01	0.205					
1	+5.40	1300	-3.684D+21	6.310D+03	-1.001	-10.7	-6.946D-05	3.044D-05	2.886	1.7569D-01	3.0135D-02	2.0582D-01	0.192					
1	+5.60	1300	-3.878D+21	6.566D+03	-1.001	-10.6	-6.723D-05	2.963D-05	2.905	1.8373D-01	3.0128D-02	2.1386D-01	0.180					
1	+5.80	1300	-4.077D+21	6.803D+03	-1.001	-10.4	-6.515D-05	2.888D-05	2.919	1.9155D-01	3.0121D-02	2.2168D-01	0.169					
1	+6.00	1300	-4.279D+21	7.052D+03	-1.001	-10.3	-6.317D-05	2.814D-05	2.934	1.9957D-01	3.0116D-02	2.2969D-01	0.159					
1	+6.20	1300	-4.484D+21	7.301D+03	-1.001	-10.2	-6.129D-05	2.743D-05	2.948	2.0764D-01	3.0111D-02	2.3775D-01	0.150					
1	+6.40	1300	-4.694D+21	7.551D+03	-1.001	-10.1	-5.951D-05	2.674D-05	2.962	2.1575D-01	3.0107D-02	2.4585D-01	0.141					
1	+6.60	1300	-4.906D+21	7.801D+03	-1.001	-9.9	-5.782D-05	2.608D-05	2.975	2.2390D-01	3.0103D-02	2.5400D-01	0.133					
1	+6.80	1300	-5.122D+21	8.053D+03	-1.001	-9.8	-5.621D-05	2.544D-05	2.988	2.3208D-01	3.0100D-02	2.6218D-01	0.126					
1	+7.00	1300	-5.342D+21	8.305D+03	-1.001	-9.7	-5.468D-05	2.483D-05	2.999	2.4030D-01	3.0098D-02	2.7040D-01	0.119					
1	+7.20	1300	-5.565D+21	8.558D+03	-1.001	-9.6	-5.322D-05	2.424D-05	3.011	2.4855D-01	3.0095D-02	2.7865D-01	0.113					

x	Eg eV	Atomic-Spacing cm	Debye K	Sound-Velocity cm/s	Num-Density cm-3	Mass-Density g-cm-3							
1	0.200	0.9759	5.4763D-08	553.6	5.090D+05	4.871D+22	2.992D+00						
	mc+	mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-	
	1.399D+00	1.40D+00	2.938D+00	2.94D+00	2.740D+01	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00	
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT
1	-5.00	300	-2.786D+17	9.101D+00	-1.048	-213.7	-6.195D-04	3.493D-06	1.987	4.0248D-05	7.5497D-02	7.5537D-02	0.014
1	-4.80	300	-3.400D+17	1.092D+01	-1.043	-209.0	-6.039D-04	3.981D-06	1.990	4.8365D-05	7.5114D-02	7.5163D-02	0.016
1	-4.60	300	-4.151D+17	1.307D+01	-1.039	-204.2	-5.884D-04	4.526D-06	1.995	5.8047D-05	7.4679D-02	7.4737D-02	0.018
1	-4.40	300	-5.066D+17	1.563D+01	-1.035	-199.2	-5.731D-04	5.131D-06	2.000	6.9577D-05	7.4188D-02	7.4257D-02	0.021
1	-4.20	300	-6.181D+17	1.864D+01	-1.031	-194.1	-5.578D-04	5.801D-06	2.007	8.3284D-05	7.3636D-02	7.3719D-02	0.024
1	-4.00	300	-7.541D+17	2.219D+01	-1.028	-188.9	-5.427D-04	6.537D-06	2.015	9.9551D-05	7.3016D-02	7.3116D-02	0.027
1	-3.80	300	-9.198D+17	2.637D+01	-1.026	-183.5	-5.277D-04	7.343D-06	2.024	1.1881D-04	7.2327D-02	7.2446D-02	0.030
1	-3.60	300	-1.121D+18	3.126D+01	-1.023	-178.1	-5.128D-04	8.220D-06	2.035	1.4160D-04	7.1564D-02	7.1705D-02	0.034
1	-3.40	300	-1.367D+18	3.697D+01	-1.022	-172.5	-4.980D-04	9.171D-06	2.047	1.6849D-04	7.0725D-02	7.0893D-02	0.039
1	-3.20	300	-1.665D+18	4.363D+01	-1.021	-167.0	-4.834D-04	1.019D-05	2.061	2.0017D-04	6.9809D-02	7.0009D-02	0.044
1	-3.00	300	-2.028D+18	5.136D+01	-1.020	-161.3	-4.688D-04	1.129D-05	2.077	2.3741D-04	6.8816D-02	6.9054D-02	0.049
1	-2.80	300	-2.467D+18	6.031D+01	-1.020	-155.7	-4.544D-04	1.245D-05	2.094	2.8111D-04	6.7748D-02	6.8029D-02	0.055
1	-2.60	300	-3.000D+18	7.064D+01	-1.021	-150.1	-4.400D-04	1.368D-05	2.113	3.3227D-04	6.6609D-02	6.6941D-02	0.061
1	-2.40	300	-3.644D+18	8.253D+01	-1.022	-144.5	-4.257D-04	1.496D-05	2.134	3.9203D-04	6.5405D-02	6.5797D-02	0.068
1	-2.20	300	-4.422D+18	9.617D+01	-1.023	-138.9	-4.116D-04	1.629D-05	2.157	4.6170D-04	6.4141D-02	6.4602D-02	0.076
1	-2.00	300	-5.358D+18	1.118D+02	-1.025	-133.5	-3.975D-04	1.766D-05	2.181	5.4266D-04	6.2828D-02	6.3370D-02	0.084
1	-1.80	300	-6.482D+18	1.296D+02	-1.027	-128.1	-3.835D-04	1.906D-05	2.207	6.3660D-04	6.1477D-02	6.2113D-02	0.092
1	-1.60	300	-7.827D+18	1.498D+02	-1.029	-122.9	-3.696D-04	2.047D-05	2.234	7.4519D-04	6.0100D-02	6.0845D-02	0.101
1	-1.40	300	-9.431D+18	1.727D+02	-1.030	-117.8	-3.558D-04	2.187D-05	2.263	8.7031D-04	5.8710D-02	5.9580D-02	0.110
1	-1.20	300	-1.133D+19	1.986D+02	-1.032	-112.9	-3.422D-04	2.325D-05	2.293	1.0140D-03	5.7320D-02	5.8334D-02	0.120
1	-1.00	300	-1.358D+19	2.277D+02	-1.034	-108.2	-3.286D-04	2.460D-05	2.324	1.1783D-03	5.5946D-02	5.7125D-02	0.129
1	-0.80	300	-1.622D+19	2.603D+02	-1.035	-103.7	-3.153D-04	2.588D-05	2.356	1.3653D-03	5.4597D-02	5.5962D-02	0.139
1	-0.60	300	-1.931D+19	2.967D+02	-1.036	-99.4	-3.022D-04	2.709D-05	2.388	1.5770D-03	5.3285D-02	5.4862D-02	0.148
1	-0.40	300	-2.288D+19	3.369D+02	-1.037	-95.3	-2.893D-04	2.820D-05	2.421	1.8156D-03	5.2023D-02	5.3839D-02	0.157
1	-0.20	300	-2.700D+19	3.813D+02	-1.037	-91.5	-2.767D-04	2.919D-05	2.453	2.0822D-03	5.0819D-02	5.2901D-02	0.166
1	+0.00	300	-3.171D+19	4.299D+02	-1.037	-87.8	-2.644D-04	3.006D-05	2.485	2.3782D-03	4.9680D-02	5.2058D-02	0.173
1	+0.20	300	-3.704D+19	4.828D+02	-1.037	-84.4	-2.526D-04	3.080D-05	2.516	2.7046D-03	4.8611D-02	5.1316D-02	0.180
1	+0.40	300	-4.304D+19	5.399D+02	-1.037	-81.2	-2.411D-04	3.139D-05	2.547	3.0616D-03	4.7616D-02	5.0677D-02	0.186
1	+0.60	300	-4.974D+19	6.012D+02	-1.036	-78.2	-2.301D-04	3.184D-05	2.577	3.4492D-03	4.6696D-02	5.0145D-02	0.190
1	+0.80	300	-5.715D+19	6.664D+02	-1.035	-75.3	-2.196D-04	3.214D-05	2.607	3.8670D-03	4.5851D-02	4.9718D-02	0.194
1	+1.00	300	-6.529D+19	7.355D+02	-1.034	-72.7	-2.096D-04	3.232D-05	2.635	4.3139D-03	4.5080D-02	4.9393D-02	0.196
1	+1.20	300	-7.417D+19	8.081D+02	-1.033	-70.2	-2.001D-04	3.236D-05	2.662	4.7887D-03	4.4380D-02	4.9169D-02	0.197
1	+1.40	300	-8.380D+19	8.839D+02	-1.032	-68.0	-1.912D-04	3.230D-05	2.688	5.2898D-03	4.3749D-02	4.9039D-02	0.198
1	+1.60	300	-9.415D+19	9.629D+02	-1.031	-65.8	-1.827D-04	3.213D-05	2.714	5.8163D-03	4.3182D-02	4.8998D-02	0.197
1	+1.80	300	-1.052D+20	1.045D+03	-1.030	-63.8	-1.747D-04	3.188D-05	2.738	6.3659D-03	4.2675D-02	4.9041D-02	0.195
1	+2.00	300	-1.170D+20	1.129D+03	-1.029	-61.9	-1.672D-04	3.156D-05	2.761	6.9371D-03	4.2223D-02	4.9161D-02	0.193
1	+2.20	300	-1.295D+20	1.215D+03	-1.028	-60.2	-1.602D-04	3.118D-05	2.783	7.5286D-03	4.1823D-02	4.9351D-02	0.190
1	+2.40	300	-1.426D+20	1.304D+03	-1.026	-58.6	-1.536D-04	3.074D-05	2.804	8.1388D-03	4.1468D-02	4.9607D-02	0.186
1	+2.60	300	-1.565D+20	1.394D+03	-1.025	-57.0	-1.474D-04	3.027D-05	2.824	8.7664D-03	4.1155D-02	4.9921D-02	0.182
1	+2.80	300	-1.709D+20	1.487D+03	-1.024	-55.6	-1.415D-04	2.978D-05	2.844	9.4103D-03	4.0879D-02	5.0289D-02	0.178
1	+3.00	300	-1.860D+20	1.580D+03	-1.023	-54.3	-1.361D-04	2.926D-05	2.861	1.0067D-02	4.0636D-02	5.0704D-02	0.173
1	+3.20	300	-2.016D+20	1.676D+03	-1.022	-53.1	-1.309D-04	2.872D-05	2.879	1.0742D-02	4.0423D-02	5.1165D-02	0.168
1	+3.40	300	-2.179D+20	1.773D+03	-1.022	-51.9	-1.261D-04	2.818D-05	2.897	1.1432D-02	4.0236D-02	5.1669D-02	0.164
1	+3.60	300	-2.346D+20	1.871D+03	-1.021	-50.8	-1.216D-04	2.764D-05	2.912	1.2127D-02	4.0073D-02	5.2200D-02	0.159
1	+3.80	300	-2.520D+20	1.970D+03	-1.020	-49.8	-1.173D-04	2.710D-05	2.927	1.2835D-02	3.9929D-02	5.2764D-02	0.154
1	+4.00	300	-2.698D+20	2.070D+03	-1.019	-48.8	-1.133D-04	2.656D-05	2.942	1.3559D-02	3.9803D-02	5.3362D-02	0.149
1	+4.20	300	-2.882D+20	2.172D+03	-1.018	-47.9	-1.095D-04	2.603D-05	2.956	1.4291D-02	3.9693D-02	5.3984D-02	0.145
1	+4.40	300	-3.071D+20	2.275D+03	-1.017	-47.0	-1.059D-04	2.550D-05	2.969	1.5033D-02	3.9596D-02	5.4629D-02	0.140
1	+4.60	300	-3.264D+20	2.378D+03	-1.017	-46.2	-1.025D-04	2.499D-05	2.981	1.5784D-02	3.9511D-02	5.5295D-02	0.136
1	+4.80	300	-3.462D+20	2.483D+03	-1.016	-45.5	-9.931D-05	2.449D-05	2.993	1.6544D-02	3.9437D-02	5.5981D-02	0.131
1	+5.00	300	-3.665D+20	2.588D+03	-1.015	-44.8	-9.629D-05	2.400D-05	3.005	1.7313D-02	3.9371D-02	5.6684D-02	0.127
1	+5.20	300	-3.872D+20	2.695D+03	-1.015	-44.1	-9.342D-05	2.352D-05	3.016	1.8089D-02	3.9314D-02	5.7403D-02	0.123
1	+5.40	300	-4.084D+20	2.802D+03	-1.014	-43.4	-9.071D-05	2.305D-05	3.026	1.8873D-02	3.9263D-02	5.8136D-02	0.119
1	+5.60	300	-4.299D+20	2.910D+03	-1.013	-42.8	-8.813D-05	2.260D-05	3.036	1.9665D-02	3.9218D-02	5.8883D-02	0.115
1	+5.80	300	-4.519D+20	3.019D+03	-1.013	-42.2	-8.568D-05	2.216D-05	3.045	2.0464D-02	3.9178D-02	5.9642D-02	0.111
1	+6.00	300	-4.743D+20	3.128D+03	-1.012	-41.7	-8.335D-05	2.173D-05	3.054	2.1269D-02	3.9142D-02	6.0412D-02	0.108
1	+6.20	300	-4.971D+20	3.239D+03	-1.012	-41.2	-8.113D-05	2.132D-05	3.063	2.2081D-02	3.9111D-02	6.1192D-02	0.105
1	+6.40	300	-5.203D+20	3.350D+03	-1.011	-40.6	-7.901D-05	2.091D-05	3.071	2.2900D-02	3.9083D-02	6.1982D-02	0.101
1	+6.60	300	-5.439D+20	3.462D+03	-1.011	-40.2	-7.700D-05	2.052D-05	3.079	2.3724D-02	3.9058D-02	6.2782D-02	0.098
1	+6.80	300	-5.679D+20	3.574D+03	-1.011	-39.7	-7.508D-05	2.015D-05	3.086	2.4554D-02	3.9035D-02	6.3589D-02	0.095
1	+7.00	300	-5.922D+20	3.687D+03	-1.010	-39.3	-7.324D-05	1.978D-05	3.093	2.5389D-02	3.9015D-02	6.4404D-02	0.092
1	+7.20	300	-6.169D+20	3.801D+03	-1.010	-38.8	-7.149D-05	1.942D-05	3.100	2.6230D-02	3.8997D-02	6.5227D-02	0.089
1	+7.40	300	-6.419D+20	3.915D+03	-1.009	-38.4	-6.981D-05	1.908D-05	3.106	2.7076D-02	3.8981D-02	6.6057D-02	0.087
1	+7.60	300	-6.673D+20	4.031D+03	-1.009	-38.0	-6.820D-05	1.875D-05	3.112	2.7927D-02	3.8966D-02	6.6893D-02	0.084
1	+7.80	300	-6.931D+20	4.146D+03	-1.009	-37.7	-6.666D-05	1.842D-05	3.118	2.8782D-02	3.8952D-02	6.7735D-02	0.082
1	+8.00	300	-7.192D+20	4.262D+03	-1.008	-37.3	-6.518D-05	1.811D-05	3.124	2.9643D-02	3.8940D-02	6.8583D-02	0.079

x	Eg eV	Atomic Spacing cm	Debye K	Sound Velocity cm/s	Num-Density cm ⁻³	Mass-Density g-cm ⁻³							
1	0.200	0.9114	5.4763D-08	553.6	5.090D+05	4.871D+22	2.992D+00						
	mc+	mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-	
	1.399D+00	1.40D+00	2.938D+00	2.94D+00	2.740D+01	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00	
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT
1	-5.00	550	-6.914D+17	9.751D+00	-1.075	-94.6	-6.126D-04	3.659D-06	2.031	8.0819D-05	5.5839D-02	5.5920D-02	0.036
1	-4.80	550	-8.441D+17	1.178D+01	-1.070	-93.2	-5.965D-04	4.192D-06	2.015	9.6860D-05	5.5688D-02	5.5785D-02	0.041
1	-4.60	550	-1.030D+18	1.421D+01	-1.064	-91.7	-5.805D-04	4.790D-06	2.005	1.1630D-04	5.5514D-02	5.5631D-02	0.047
1	-4.40	550	-1.257D+18	1.713D+01	-1.059	-90.1	-5.646D-04	5.460D-06	1.999	1.3975D-04	5.5315D-02	5.5455D-02	0.054
1	-4.20	550	-1.534D+18	2.061D+01	-1.054	-88.4	-5.488D-04	6.208D-06	1.996	1.6797D-04	5.5087D-02	5.5255D-02	0.062
1	-4.00	550	-1.872D+18	2.477D+01	-1.049	-86.7	-5.330D-04	7.038D-06	1.996	2.0184D-04	5.4830D-02	5.5031D-02	0.070
1	-3.80	550	-2.283D+18	2.972D+01	-1.045	-84.9	-5.174D-04	7.957D-06	1.998	2.4238D-04	5.4534D-02	5.4777D-02	0.080
1	-3.60	550	-2.784D+18	3.560D+01	-1.040	-83.1	-5.019D-04	8.968D-06	2.002	2.9082D-04	5.4201D-02	5.4492D-02	0.091
1	-3.40	550	-3.393D+18	4.256D+01	-1.036	-81.1	-4.865D-04	1.007D-05	2.007	3.4857D-04	5.3827D-02	5.4176D-02	0.102
1	-3.20	550	-4.134D+18	5.079D+01	-1.033	-79.2	-4.712D-04	1.128D-05	2.013	4.1732D-04	5.3409D-02	5.3827D-02	0.115
1	-3.00	550	-5.034D+18	6.049D+01	-1.029	-77.2	-4.561D-04	1.258D-05	2.021	4.9895D-04	5.2946D-02	5.3445D-02	0.129
1	-2.80	550	-6.125D+18	7.189D+01	-1.026	-75.2	-4.411D-04	1.399D-05	2.030	5.9571D-04	5.2435D-02	5.3031D-02	0.145
1	-2.60	550	-7.447D+18	8.524D+01	-1.024	-73.1	-4.262D-04	1.548D-05	2.041	7.1010D-04	5.1876D-02	5.2586D-02	0.162
1	-2.40	550	-9.046D+18	1.008D+02	-1.022	-71.1	-4.114D-04	1.707D-05	2.054	8.4514D-04	5.1269D-02	5.2114D-02	0.180
1	-2.20	550	-1.098D+19	1.190D+02	-1.020	-69.0	-3.968D-04	1.874D-05	2.068	1.0041D-03	5.0615D-02	5.1619D-02	0.200
1	-2.00	550	-1.330D+19	1.401D+02	-1.018	-66.9	-3.823D-04	2.047D-05	2.083	1.1908D-03	4.9918D-02	5.1109D-02	0.220
1	-1.80	550	-1.609D+19	1.644D+02	-1.017	-64.9	-3.680D-04	2.227D-05	2.100	1.4094D-03	4.9181D-02	5.0591D-02	0.242
1	-1.60	550	-1.943D+19	1.925D+02	-1.016	-62.8	-3.538D-04	2.410D-05	2.119	1.6646D-03	4.8410D-02	5.0075D-02	0.265
1	-1.40	550	-2.341D+19	2.246D+02	-1.016	-60.8	-3.398D-04	2.594D-05	2.139	1.9614D-03	4.7612D-02	4.9574D-02	0.288
1	-1.20	550	-2.814D+19	2.614D+02	-1.015	-58.9	-3.260D-04	2.778D-05	2.161	2.3054D-03	4.6795D-02	4.9101D-02	0.311
1	-1.00	550	-3.372D+19	3.031D+02	-1.015	-56.9	-3.125D-04	2.959D-05	2.185	2.7022D-03	4.5968D-02	4.8671D-02	0.334
1	-0.80	550	-4.028D+19	3.502D+02	-1.015	-55.1	-2.991D-04	3.134D-05	2.209	3.1576D-03	4.5141D-02	4.8298D-02	0.357
1	-0.60	550	-4.793D+19	4.032D+02	-1.015	-53.3	-2.861D-04	3.300D-05	2.235	3.6776D-03	4.4322D-02	4.8000D-02	0.378
1	-0.40	550	-5.681D+19	4.623D+02	-1.014	-51.5	-2.734D-04	3.454D-05	2.262	4.2676D-03	4.3522D-02	4.7789D-02	0.398
1	-0.20	550	-6.703D+19	5.278D+02	-1.014	-49.9	-2.610D-04	3.595D-05	2.290	4.9327D-03	4.2748D-02	4.7681D-02	0.415
1	+0.00	550	-7.871D+19	6.001D+02	-1.014	-48.3	-2.490D-04	3.719D-05	2.318	5.6773D-03	4.2008D-02	4.7685D-02	0.429
1	+0.20	550	-9.195D+19	6.790D+02	-1.014	-46.7	-2.374D-04	3.826D-05	2.347	6.5046D-03	4.1309D-02	4.7813D-02	0.440
1	+0.40	550	-1.068D+20	7.647D+02	-1.013	-45.3	-2.262D-04	3.914D-05	2.377	7.4168D-03	4.0655D-02	4.8071D-02	0.448
1	+0.60	550	-1.235D+20	8.569D+02	-1.013	-43.9	-2.156D-04	3.983D-05	2.406	8.4157D-03	4.0048D-02	4.8464D-02	0.452
1	+0.80	550	-1.419D+20	9.556D+02	-1.013	-42.6	-2.054D-04	4.033D-05	2.436	9.4991D-03	3.9491D-02	4.8990D-02	0.453
1	+1.00	550	-1.621D+20	1.060D+03	-1.012	-41.3	-1.958D-04	4.064D-05	2.465	1.0666D-02	3.8985D-02	4.9651D-02	0.450
1	+1.20	550	-1.841D+20	1.171D+03	-1.012	-40.2	-1.866D-04	4.079D-05	2.494	1.1916D-02	3.8528D-02	5.0444D-02	0.445
1	+1.40	550	-2.080D+20	1.287D+03	-1.011	-39.1	-1.780D-04	4.077D-05	2.523	1.3246D-02	3.8118D-02	5.1364D-02	0.437
1	+1.60	550	-2.337D+20	1.407D+03	-1.011	-38.0	-1.699D-04	4.062D-05	2.551	1.4650D-02	3.7753D-02	5.2403D-02	0.426
1	+1.80	550	-2.612D+20	1.533D+03	-1.011	-37.0	-1.622D-04	4.034D-05	2.578	1.6127D-02	3.7431D-02	5.3558D-02	0.414
1	+2.00	550	-2.905D+20	1.662D+03	-1.010	-36.1	-1.551D-04	3.996D-05	2.605	1.7671D-02	3.7147D-02	5.4819D-02	0.401
1	+2.20	550	-3.214D+20	1.795D+03	-1.010	-35.2	-1.483D-04	3.949D-05	2.631	1.9279D-02	3.6899D-02	5.6178D-02	0.387
1	+2.40	550	-3.541D+20	1.932D+03	-1.009	-34.4	-1.420D-04	3.895D-05	2.657	2.0947D-02	3.6682D-02	5.7630D-02	0.372
1	+2.60	550	-3.884D+20	2.072D+03	-1.009	-33.6	-1.361D-04	3.836D-05	2.681	2.2671D-02	3.6494D-02	5.9165D-02	0.357
1	+2.80	550	-4.242D+20	2.214D+03	-1.009	-32.9	-1.305D-04	3.771D-05	2.705	2.4447D-02	3.6331D-02	6.0778D-02	0.341
1	+3.00	550	-4.616D+20	2.360D+03	-1.008	-32.2	-1.253D-04	3.704D-05	2.728	2.6270D-02	3.6190D-02	6.2460D-02	0.326
1	+3.20	550	-5.005D+20	2.507D+03	-1.008	-31.5	-1.204D-04	3.634D-05	2.750	2.8143D-02	3.6069D-02	6.4211D-02	0.311
1	+3.40	550	-5.408D+20	2.657D+03	-1.008	-30.9	-1.158D-04	3.563D-05	2.771	3.0056D-02	3.5964D-02	6.6020D-02	0.297
1	+3.60	550	-5.825D+20	2.809D+03	-1.007	-30.3	-1.115D-04	3.491D-05	2.792	3.2009D-02	3.5874D-02	6.7883D-02	0.283
1	+3.80	550	-6.255D+20	2.963D+03	-1.007	-29.8	-1.074D-04	3.419D-05	2.811	3.3999D-02	3.5797D-02	6.9796D-02	0.269
1	+4.00	550	-6.698D+20	3.119D+03	-1.007	-29.3	-1.036D-04	3.346D-05	2.830	3.6024D-02	3.5730D-02	7.1755D-02	0.257
1	+4.20	550	-7.154D+20	3.276D+03	-1.006	-28.8	-9.998D-05	3.275D-05	2.848	3.8082D-02	3.5673D-02	7.3755D-02	0.244
1	+4.40	550	-7.622D+20	3.435D+03	-1.006	-28.3	-9.659D-05	3.205D-05	2.865	4.0170D-02	3.5624D-02	7.5794D-02	0.233
1	+4.60	550	-8.103D+20	3.595D+03	-1.006	-27.9	-9.338D-05	3.135D-05	2.882	4.2288D-02	3.5582D-02	7.7869D-02	0.221
1	+4.80	550	-8.594D+20	3.757D+03	-1.005	-27.4	-9.035D-05	3.067D-05	2.898	4.4432D-02	3.5545D-02	7.9977D-02	0.211
1	+5.00	550	-9.098D+20	3.920D+03	-1.005	-27.0	-8.749D-05	3.001D-05	2.913	4.6601D-02	3.5514D-02	8.2115D-02	0.201
1	+5.20	550	-9.612D+20	4.084D+03	-1.005	-26.7	-8.478D-05	2.936D-05	2.927	4.8783D-02	3.5487D-02	8.4270D-02	0.192
1	+5.40	550	-1.014D+21	4.250D+03	-1.005	-26.3	-8.222D-05	2.873D-05	2.941	5.1009D-02	3.5464D-02	8.6473D-02	0.183
1	+5.60	550	-1.067D+21	4.416D+03	-1.004	-25.9	-7.979D-05	2.811D-05	2.954	5.3245D-02	3.5443D-02	8.8689D-02	0.174
1	+5.80	550	-1.122D+21	4.584D+03	-1.004	-25.6	-7.749D-05	2.752D-05	2.966	5.5482D-02	3.5426D-02	9.0907D-02	0.167
1	+6.00	550	-1.177D+21	4.752D+03	-1.004	-25.3	-7.528D-05	2.693D-05	2.979	5.7776D-02	3.5410D-02	9.3187D-02	0.159
1	+6.20	550	-1.234D+21	4.922D+03	-1.004	-25.0	-7.320D-05	2.637D-05	2.990	6.0069D-02	3.5397D-02	9.5466D-02	0.152
1	+6.40	550	-1.292D+21	5.092D+03	-1.004	-24.7	-7.121D-05	2.582D-05	3.001	6.2378D-02	3.5385D-02	9.7763D-02	0.145
1	+6.60	550	-1.350D+21	5.264D+03	-1.003	-24.4	-6.932D-05	2.530D-05	3.012	6.4703D-02	3.5375D-02	1.0008D-01	0.139
1	+6.80	550	-1.410D+21	5.436D+03	-1.003	-24.2	-6.752D-05	2.478D-05	3.022	6.7043D-02	3.5366D-02	1.0241D-01	0.133
1	+7.00	550	-1.470D+21	5.609D+03	-1.003	-23.9	-6.580D-05	2.429D-05	3.031	6.9397D-02	3.5358D-02	1.0475D-01	0.128
1	+7.20	550	-1.531D+21	5.783D+03	-1.003	-23.6	-6.416D-05	2.381D-05	3.041	7.1764D-02	3.5351D-02	1.0711D-01	0.122
1	+7.40	550	-1.593D+21	5.958D+03	-1.003	-23.4	-6.259D-05	2.334D-05	3.049	7.4144D-02	3.5345D-02	1.0949D-01	0.117
1	+7.60	550	-1.657D+21	6.133D+03	-1.003	-23.2	-6.109D-05	2.289D-05	3.058	7.6536D-02	3.5339D-02	1.1188D-01	0.113
1	+7.80	550	-1.720D+21	6.309D+03	-1.003	-23.0	-5.966D-05	2.245D-05	3.066	7.8940D-02	3.5334D-02	1.1427D-01	0.108
1	+8.00	550	-1.785D+21	6.486D+03	-1.002	-22.7	-5.828D-05	2.203D-05	3.073	8.1354D-02	3.5330D-02	1.1668D-01	0.104

x	Eg eV	Atomic-Spacing cm	Debye K	Sound-Velocity cm/s	Num-Density cm ⁻³	Mass-Density g-cm ⁻³								
1.399D+00	1.40D+00	2.938D+00	2.94D+00	2.740D+01	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00			
mc+	mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-			
PT	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT	
1	-5.00	800	-1.090D+18	1.107D+01	-0.735	-46.6	-4.806D-04	2.556D-06	X24.368	1.6010D-03	4.5833D-02	4.7434D-02	0.043	
1	-4.80	800	-1.380D+18	1.299D+01	-0.835	-49.1	-5.044D-04	3.305D-06	X17.911	1.3813D-03	4.5750D-02	4.7132D-02	0.056	
1	-4.60	800	-1.725D+18	1.539D+01	-0.908	-50.6	-5.164D-04	4.103D-06	X13.092	1.1958D-03	4.5655D-02	4.6851D-02	0.070	
1	-4.40	800	-2.138D+18	1.833D+01	-0.958	-51.3	-5.198D-04	4.954D-06	9.620	1.0469D-03	4.5544D-02	4.6591D-02	0.085	
1	-4.20	800	-2.636D+18	2.192D+01	-0.992	-51.5	-5.172D-04	5.863D-06	7.181	9.3451D-04	4.5417D-02	4.6352D-02	0.101	
1	-4.00	800	-3.239D+18	2.627D+01	-1.013	-51.3	-5.102D-04	6.840D-06	5.495	8.5706D-04	4.5271D-02	4.6128D-02	0.119	
1	-3.80	800	-3.968D+18	3.151D+01	-1.026	-50.9	-5.004D-04	7.892D-06	4.345	8.1287D-04	4.5106D-02	4.5919D-02	0.138	
1	-3.60	800	-4.853D+18	3.781D+01	-1.033	-50.2	-4.887D-04	9.030D-06	3.567	8.0057D-04	4.4914D-02	4.5715D-02	0.158	
1	-3.40	800	-5.928D+18	4.533D+01	-1.036	-49.5	-4.758D-04	1.026D-05	3.045	8.1937D-04	4.4698D-02	4.5517D-02	0.180	
1	-3.20	800	-7.232D+18	5.430D+01	-1.037	-48.6	-4.620D-04	1.159D-05	2.697	8.6930D-04	4.4453D-02	4.5322D-02	0.205	
1	-3.00	800	-8.814D+18	6.496D+01	-1.036	-47.7	-4.477D-04	1.302D-05	2.467	9.5122D-04	4.4178D-02	4.5129D-02	0.231	
1	-2.80	800	-1.073D+19	7.759D+01	-1.034	-46.7	-4.332D-04	1.456D-05	2.316	1.0669D-03	4.3872D-02	4.4939D-02	0.259	
1	-2.60	800	-1.305D+19	9.251D+01	-1.032	-45.6	-4.185D-04	1.620D-05	2.220	1.2190D-03	4.3532D-02	4.4751D-02	0.290	
1	-2.40	800	-1.586D+19	1.101D+02	-1.029	-44.6	-4.038D-04	1.794D-05	2.159	1.4111D-03	4.3159D-02	4.4570D-02	0.322	
1	-2.20	800	-1.925D+19	1.307D+02	-1.027	-43.5	-3.891D-04	1.978D-05	2.124	1.6477D-03	4.2751D-02	4.4399D-02	0.356	
1	-2.00	800	-2.333D+19	1.548D+02	-1.024	-42.4	-3.744D-04	2.170D-05	2.106	1.9345D-03	4.2310D-02	4.4244D-02	0.392	
1	-1.80	800	-2.822D+19	1.828D+02	-1.022	-41.3	-3.599D-04	2.368D-05	2.099	2.2777D-03	4.1837D-02	4.4114D-02	0.430	
1	-1.60	800	-3.408D+19	2.153D+02	-1.020	-40.2	-3.456D-04	2.572D-05	2.101	2.6851D-03	4.1335D-02	4.4020D-02	0.467	
1	-1.40	800	-4.107D+19	2.529D+02	-1.018	-39.1	-3.314D-04	2.778D-05	2.108	3.1649D-03	4.0808D-02	4.3973D-02	0.505	
1	-1.20	800	-4.936D+19	2.960D+02	-1.016	-38.0	-3.175D-04	2.984D-05	2.121	3.7263D-03	4.0261D-02	4.3987D-02	0.543	
1	-1.00	800	-5.915D+19	3.453D+02	-1.015	-37.0	-3.038D-04	3.187D-05	2.137	4.3791D-03	3.9700D-02	4.4079D-02	0.578	
1	-0.80	800	-7.065D+19	4.012D+02	-1.013	-35.9	-2.904D-04	3.383D-05	2.155	5.1335D-03	3.9132D-02	4.4265D-02	0.611	
1	-0.60	800	-8.408D+19	4.644D+02	-1.012	-34.9	-2.773D-04	3.570D-05	2.176	5.9995D-03	3.8563D-02	4.4562D-02	0.641	
1	-0.40	800	-9.965D+19	5.353D+02	-1.011	-33.9	-2.645D-04	3.744D-05	2.199	6.9874D-03	3.8001D-02	4.4988D-02	0.666	
1	-0.20	800	-1.176D+20	6.142D+02	-1.010	-32.9	-2.521D-04	3.903D-05	2.223	8.1064D-03	3.7453D-02	4.5559D-02	0.685	
1	+0.00	800	-1.381D+20	7.014D+02	-1.010	-32.0	-2.401D-04	4.044D-05	2.249	9.3644D-03	3.6925D-02	4.6289D-02	0.699	
1	+0.20	800	-1.613D+20	7.971D+02	-1.009	-31.1	-2.286D-04	4.164D-05	2.276	1.0768D-02	3.6423D-02	4.7191D-02	0.706	
1	+0.40	800	-1.874D+20	9.011D+02	-1.008	-30.3	-2.175D-04	4.263D-05	2.304	1.2322D-02	3.5951D-02	4.8273D-02	0.706	
1	+0.60	800	-2.166D+20	1.013D+03	-1.008	-29.4	-2.069D-04	4.340D-05	2.332	1.4030D-02	3.5513D-02	4.9542D-02	0.701	
1	+0.80	800	-2.489D+20	1.134D+03	-1.007	-28.6	-1.969D-04	4.395D-05	2.361	1.5893D-02	3.5110D-02	5.1002D-02	0.689	
1	+1.00	800	-2.843D+20	1.262D+03	-1.007	-27.9	-1.873D-04	4.429D-05	2.390	1.7906D-02	3.4743D-02	5.2648D-02	0.673	
1	+1.20	800	-3.230D+20	1.397D+03	-1.006	-27.2	-1.783D-04	4.443D-05	2.420	2.0067D-02	3.4412D-02	5.4479D-02	0.652	
1	+1.40	800	-3.649D+20	1.539D+03	-1.006	-26.5	-1.698D-04	4.439D-05	2.449	2.2375D-02	3.4117D-02	5.6492D-02	0.629	
1	+1.60	800	-4.100D+20	1.687D+03	-1.005	-25.8	-1.618D-04	4.419D-05	2.478	2.4823D-02	3.3855D-02	5.8678D-02	0.603	
1	+1.80	800	-4.582D+20	1.841D+03	-1.005	-25.2	-1.543D-04	4.385D-05	2.507	2.7403D-02	3.3624D-02	6.1027D-02	0.575	
1	+2.00	800	-5.095D+20	2.001D+03	-1.005	-24.6	-1.473D-04	4.339D-05	2.535	3.0110D-02	3.3423D-02	6.3533D-02	0.546	
1	+2.20	800	-5.639D+20	2.165D+03	-1.004	-24.1	-1.407D-04	4.283D-05	2.563	3.2937D-02	3.3247D-02	6.6184D-02	0.518	
1	+2.40	800	-6.212D+20	2.333D+03	-1.004	-23.5	-1.345D-04	4.219D-05	2.590	3.5876D-02	3.3094D-02	6.8970D-02	0.489	
1	+2.60	800	-6.813D+20	2.505D+03	-1.004	-23.0	-1.287D-04	4.148D-05	2.617	3.8920D-02	3.2963D-02	7.1883D-02	0.462	
1	+2.80	800	-7.442D+20	2.681D+03	-1.004	-22.6	-1.232D-04	4.072D-05	2.643	4.2062D-02	3.2850D-02	7.4912D-02	0.435	
1	+3.00	800	-8.098D+20	2.860D+03	-1.003	-22.1	-1.181D-04	3.992D-05	2.668	4.5297D-02	3.2753D-02	7.8050D-02	0.409	
1	+3.20	800	-8.780D+20	3.042D+03	-1.003	-21.7	-1.134D-04	3.910D-05	2.692	4.8617D-02	3.2670D-02	8.1287D-02	0.385	
1	+3.40	800	-9.487D+20	3.226D+03	-1.003	-21.3	-1.089D-04	3.826D-05	2.716	5.2017D-02	3.2600D-02	8.4617D-02	0.362	
1	+3.60	800	-1.022D+21	3.413D+03	-1.003	-20.9	-1.047D-04	3.742D-05	2.739	5.5492D-02	3.2539D-02	8.8031D-02	0.340	
1	+3.80	800	-1.097D+21	3.603D+03	-1.003	-20.5	-1.008D-04	3.657D-05	2.760	5.9036D-02	3.2488D-02	9.1524D-02	0.320	
1	+4.00	800	-1.175D+21	3.794D+03	-1.002	-20.2	-9.705D-05	3.573D-05	2.781	6.2644D-02	3.2444D-02	9.5088D-02	0.301	
1	+4.20	800	-1.255D+21	3.987D+03	-1.002	-19.9	-9.356D-05	3.490D-05	2.802	6.6312D-02	3.2407D-02	9.8719D-02	0.283	
1	+4.40	800	-1.337D+21	4.182D+03	-1.002	-19.6	-9.028D-05	3.408D-05	2.821	7.0035D-02	3.2375D-02	1.0241D-01	0.266	
1	+4.60	800	-1.421D+21	4.379D+03	-1.002	-19.3	-8.718D-05	3.328D-05	2.840	7.3811D-02	3.2348D-02	1.0616D-01	0.251	
1	+4.80	800	-1.508D+21	4.577D+03	-1.002	-19.0	-8.426D-05	3.249D-05	2.857	7.7634D-02	3.2325D-02	1.0996D-01	0.236	
1	+5.00	800	-1.596D+21	4.776D+03	-1.002	-18.7	-8.150D-05	3.173D-05	2.874	8.1502D-02	3.2305D-02	1.1381D-01	0.223	
1	+5.20	800	-1.686D+21	4.977D+03	-1.002	-18.5	-7.889D-05	3.098D-05	2.891	8.5412D-02	3.2288D-02	1.1770D-01	0.211	
1	+5.40	800	-1.778D+21	5.179D+03	-1.001	-18.2	-7.643D-05	3.025D-05	2.906	8.9360D-02	3.2274D-02	1.2163D-01	0.199	
1	+5.60	800	-1.872D+21	5.383D+03	-1.001	-18.0	-7.409D-05	2.955D-05	2.921	9.3344D-02	3.2262D-02	1.2561D-01	0.188	
1	+5.80	800	-1.968D+21	5.587D+03	-1.001	-17.7	-7.188D-05	2.887D-05	2.935	9.7362D-02	3.2251D-02	1.2961D-01	0.178	
1	+6.00	800	-2.066D+21	5.793D+03	-1.001	-17.5	-6.978D-05	2.820D-05	2.949	1.0141D-01	3.2242D-02	1.3365D-01	0.169	
1	+6.20	800	-2.165D+21	5.999D+03	-1.001	-17.3	-6.778D-05	2.756D-05	2.962	1.0549D-01	3.2234D-02	1.3772D-01	0.160	
1	+6.40	800	-2.266D+21	6.207D+03	-1.001	-17.1	-6.589D-05	2.694D-05	2.974	1.0959D-01	3.2227D-02	1.4182D-01	0.152	
1	+6.60	800	-2.369D+21	6.415D+03	-1.001	-16.9	-6.408D-05	2.634D-05	2.986	1.1372D-01	3.2221D-02	1.4594D-01	0.144	
1	+6.80	800	-2.473D+21	6.624D+03	-1.001	-16.7	-6.237D-05	2.576D-05	2.998	1.1788D-01	3.2216D-02	1.5009D-01	0.137	
1	+7.00	800	-2.579D+21	6.834D+03	-1.001	-16.6	-6.073D-05	2.520D-05	3.008	1.2205D-01	3.2212D-02	1.5426D-01	0.131	
1	+7.20	800	-2.686D+21	7.045D+03	-1.001	-16.4	-5.917D-05	2.466D-05	3.019	1.2625D-01	3.2208D-02	1.5846D-01	0.125	
1	+7.40	800	-2.795D+21	7.256D+03	-1.001	-16.2	-5.768D-05	2.414D-05	3.029	1.3046D-01	3.2204D-02	1.6267D-01	0.119	
1	+7.60	800	-2.906D+21	7.469D+03	-1.001	-16.1	-5.626D-05	2.364D-05	3.038	1.3470D-01	3.2201D-02	1.6690D-01	0.113	
1	+7.80	800	-3.018D+21	7.682D+03	-1.001	-15.9	-5.490D-05	2.315D-05	3.047	1.3895D-01	3.2198D-02	1.7115D-01	0.108	
1	+8.00	800	-3.132D+21	7.895D+03	-1.001	-15.7	-5.359D-05	2.267D-05	3.056	1.4324D-01	3.2196D-02	1.7544D-01	0.103	

	x	Eg eV	Atomic-Spacing cm	Debye K	Sound-Velocity cm/s	Num-Density cm-3	Mass-Density g-cm-3							
			5.4763D-08	553.6	5.090D+05	4.871D+22	2.992D+00							
			mc+	mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-
			1.399D+00	1.40D+00	2.938D+00	2.94D+00	2.740D+01	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT	
1	-5.00	1050	+5.165D+18	4.729D+01	+0.379	+21.6	+2.693D-04	3.428D-06	%28.987	1.0680D-02	3.9556D-02	5.0236D-02	0.072	
1	-4.80	1050	+3.505D+18	4.348D+01	+0.216	+16.7	+2.040D-04	1.810D-06	%35.049	1.1875D-02	3.9503D-02	5.1378D-02	0.037	
1	-4.60	1050	+1.981D+18	4.138D+01	+0.080	+10.5	+1.239D-04	6.357D-07	%39.850	1.2847D-02	3.9442D-02	5.2289D-02	0.013	
1	-4.40	1050	+5.343D+17	4.104D+01	+0.006	+3.1	+3.438D-05	4.850D-08	%42.119	1.3469D-02	3.9371D-02	5.2840D-02	0.001	
1	-4.20	1050	-8.915D+17	4.094D+01	-0.017	-5.0	-5.722D-05	1.341D-07	%41.848	1.3350D-02	3.9289D-02	5.2639D-02	0.003	
1	-4.00	1050	-2.352D+18	4.174D+01	-0.110	-12.1	-1.451D-04	8.790D-07	%38.842	1.2633D-02	3.9194D-02	5.1827D-02	0.018	
1	-3.80	1050	-3.904D+18	4.427D+01	-0.255	-18.1	-2.218D-04	2.179D-06	%33.601	1.1591D-02	3.9087D-02	5.0678D-02	0.045	
1	-3.60	1050	-5.608D+18	4.851D+01	-0.420	-22.7	-2.830D-04	3.884D-06	%27.424	1.0365D-02	3.8961D-02	4.9326D-02	0.083	
1	-3.40	1050	-7.529D+18	5.451D+01	-0.575	-26.0	-3.276D-04	5.850D-06	%21.424	9.0999D-03	3.8818D-02	4.7917D-02	0.128	
1	-3.20	1050	-9.740D+18	6.244D+01	-0.705	-28.2	-3.571D-04	7.962D-06	%16.262	7.9110D-03	3.8655D-02	4.6566D-02	0.180	
1	-3.00	1050	-1.232D+19	7.247D+01	-0.805	-29.5	-3.742D-04	1.015D-05	%12.168	6.8710D-03	3.8470D-02	4.5341D-02	0.235	
1	-2.80	1050	-1.538D+19	8.488D+01	-0.878	-30.2	-3.818D-04	1.237D-05	9.098	6.0170D-03	3.8264D-02	4.4281D-02	0.293	
1	-2.60	1050	-1.901D+19	9.998D+01	-0.929	-30.5	-3.823D-04	1.462D-05	6.882	5.3614D-03	3.8032D-02	4.3394D-02	0.354	
1	-2.40	1050	-2.334D+19	1.181D+02	-0.963	-30.4	-3.780D-04	1.688D-05	5.327	4.9029D-03	3.7776D-02	4.2679D-02	0.415	
1	-2.20	1050	-2.853D+19	1.398D+02	-0.985	-30.1	-3.702D-04	1.916D-05	4.255	4.6341D-03	3.7494D-02	4.2128D-02	0.478	
1	-2.00	1050	-3.473D+19	1.654D+02	-0.999	-29.7	-3.602D-04	2.146D-05	3.529	4.5464D-03	3.7186D-02	4.1732D-02	0.540	
1	-1.80	1050	-4.216D+19	1.954D+02	-1.007	-29.1	-3.488D-04	2.377D-05	3.042	4.6324D-03	3.6853D-02	4.1485D-02	0.602	
1	-1.60	1050	-5.102D+19	2.306D+02	-1.012	-28.6	-3.364D-04	2.610D-05	2.720	4.8876D-03	3.6496D-02	4.1384D-02	0.662	
1	-1.40	1050	-6.156D+19	2.715D+02	-1.014	-27.9	-3.235D-04	2.841D-05	2.511	5.3105D-03	3.6119D-02	4.1429D-02	0.720	
1	-1.20	1050	-7.406D+19	3.187D+02	-1.015	-27.3	-3.103D-04	3.069D-05	2.378	5.9031D-03	3.5722D-02	4.1626D-02	0.774	
1	-1.00	1050	-8.881D+19	3.728D+02	-1.015	-26.6	-2.971D-04	3.292D-05	2.296	6.6695D-03	3.5312D-02	4.1982D-02	0.823	
1	-0.80	1050	-1.061D+20	4.347D+02	-1.014	-25.9	-2.840D-04	3.506D-05	2.249	7.6180D-03	3.4894D-02	4.2512D-02	0.866	
1	-0.60	1050	-1.263D+20	5.047D+02	-1.014	-25.3	-2.711D-04	3.708D-05	2.226	8.7552D-03	3.4471D-02	4.3272D-02	0.901	
1	-0.40	1050	-1.498D+20	5.835D+02	-1.013	-24.6	-2.584D-04	3.896D-05	2.220	1.0092D-02	3.4051D-02	4.4143D-02	0.927	
1	-0.20	1050	-1.767D+20	6.715D+02	-1.012	-24.0	-2.461D-04	4.066D-05	2.224	1.1637D-02	3.3639D-02	4.5275D-02	0.943	
1	+0.00	1050	-2.076D+20	7.690D+02	-1.011	-23.4	-2.341D-04	4.215D-05	2.236	1.3399D-02	3.3239D-02	4.6639D-02	0.949	
1	+0.20	1050	-2.425D+20	8.761D+02	-1.010	-22.8	-2.226D-04	4.343D-05	2.254	1.5386D-02	3.2858D-02	4.8244D-02	0.945	
1	+0.40	1050	-2.818D+20	9.928D+02	-1.009	-22.2	-2.116D-04	4.446D-05	2.276	1.7604D-02	3.2498D-02	5.0102D-02	0.932	
1	+0.60	1050	-3.256D+20	1.119D+03	-1.008	-21.6	-2.011D-04	4.526D-05	2.300	2.0054D-02	3.2162D-02	5.2217D-02	0.910	
1	+0.80	1050	-3.742D+20	1.254D+03	-1.007	-21.1	-1.911D-04	4.581D-05	2.326	2.2738D-02	3.1854D-02	5.4592D-02	0.881	
1	+1.00	1050	-4.275D+20	1.399D+03	-1.006	-20.6	-1.816D-04	4.614D-05	2.354	2.5656D-02	3.1573D-02	5.7229D-02	0.846	
1	+1.20	1050	-4.857D+20	1.551D+03	-1.006	-20.1	-1.727D-04	4.625D-05	2.383	2.8796D-02	3.1319D-02	6.0116D-02	0.808	
1	+1.40	1050	-5.487D+20	1.711D+03	-1.005	-19.6	-1.642D-04	4.616D-05	2.411	3.2157D-02	3.1093D-02	6.3250D-02	0.766	
1	+1.60	1050	-6.165D+20	1.879D+03	-1.005	-19.1	-1.563D-04	4.590D-05	2.441	3.5731D-02	3.0893D-02	6.6624D-02	0.723	
1	+1.80	1050	-6.890D+20	2.053D+03	-1.004	-18.7	-1.489D-04	4.549D-05	2.470	3.9506D-02	3.0717D-02	7.0222D-02	0.680	
1	+2.00	1050	-7.662D+20	2.233D+03	-1.004	-18.3	-1.419D-04	4.494D-05	2.499	4.3477D-02	3.0563D-02	7.4040D-02	0.637	
1	+2.20	1050	-8.479D+20	2.418D+03	-1.004	-17.9	-1.353D-04	4.429D-05	2.528	4.7629D-02	3.0430D-02	7.8058D-02	0.596	
1	+2.40	1050	-9.340D+20	2.608D+03	-1.003	-17.5	-1.292D-04	4.356D-05	2.557	5.1951D-02	3.0315D-02	8.2266D-02	0.556	
1	+2.60	1050	-1.024D+21	2.803D+03	-1.003	-17.1	-1.235D-04	4.276D-05	2.584	5.6434D-02	3.0216D-02	8.6650D-02	0.518	
1	+2.80	1050	-1.119D+21	3.001D+03	-1.003	-16.8	-1.182D-04	4.190D-05	2.612	6.1067D-02	3.0131D-02	9.1198D-02	0.482	
1	+3.00	1050	-1.218D+21	3.203D+03	-1.002	-16.5	-1.131D-04	4.101D-05	2.638	6.5839D-02	3.0059D-02	9.5898D-02	0.449	
1	+3.20	1050	-1.320D+21	3.409D+03	-1.002	-16.2	-1.085D-04	4.009D-05	2.663	7.0729D-02	2.9997D-02	1.0073D-01	0.418	
1	+3.40	1050	-1.426D+21	3.617D+03	-1.002	-15.9	-1.041D-04	3.916D-05	2.689	7.5764D-02	2.9945D-02	1.0571D-01	0.389	
1	+3.60	1050	-1.536D+21	3.828D+03	-1.002	-15.6	-9.993D-05	3.822D-05	2.714	8.0929D-02	2.9900D-02	1.1083D-01	0.362	
1	+3.80	1050	-1.650D+21	4.041D+03	-1.002	-15.3	-9.607D-05	3.730D-05	2.736	8.6138D-02	2.9863D-02	1.1600D-01	0.338	
1	+4.00	1050	-1.767D+21	4.256D+03	-1.002	-15.1	-9.244D-05	3.637D-05	2.758	9.1472D-02	2.9831D-02	1.2130D-01	0.315	
1	+4.20	1050	-1.887D+21	4.474D+03	-1.001	-14.8	-8.903D-05	3.546D-05	2.780	9.6895D-02	2.9804D-02	1.2670D-01	0.294	
1	+4.40	1050	-2.011D+21	4.693D+03	-1.001	-14.6	-8.583D-05	3.457D-05	2.800	1.0240D-01	2.9781D-02	1.3218D-01	0.275	
1	+4.60	1050	-2.137D+21	4.914D+03	-1.001	-14.4	-8.281D-05	3.369D-05	2.820	1.0798D-01	2.9761D-02	1.3774D-01	0.257	
1	+4.80	1050	-2.267D+21	5.136D+03	-1.001	-14.2	-7.996D-05	3.284D-05	2.839	1.1363D-01	2.9745D-02	1.4338D-01	0.240	
1	+5.00	1050	-2.400D+21	5.360D+03	-1.001	-14.0	-7.728D-05	3.201D-05	2.858	1.1934D-01	2.9731D-02	1.4908D-01	0.225	
1	+5.20	1050	-2.535D+21	5.585D+03	-1.001	-13.8	-7.474D-05	3.120D-05	2.875	1.2512D-01	2.9719D-02	1.5484D-01	0.212	
1	+5.40	1050	-2.674D+21	5.812D+03	-1.001	-13.6	-7.235D-05	3.042D-05	2.892	1.3095D-01	2.9709D-02	1.6065D-01	0.199	
1	+5.60	1050	-2.815D+21	6.039D+03	-1.001	-13.4	-7.007D-05	2.965D-05	2.909	1.3690D-01	2.9701D-02	1.6660D-01	0.187	
1	+5.80	1050	-2.959D+21	6.268D+03	-1.001	-13.2	-6.794D-05	2.893D-05	2.923	1.4275D-01	2.9693D-02	1.7244D-01	0.176	
1	+6.00	1050	-3.106D+21	6.498D+03	-1.001	-13.1	-6.590D-05	2.822D-05	2.937	1.4871D-01	2.9687D-02	1.7840D-01	0.166	
1	+6.20	1050	-3.255D+21	6.728D+03	-1.001	-12.9	-6.398D-05	2.754D-05	2.951	1.5472D-01	2.9681D-02	1.8440D-01	0.157	
1	+6.40	1050	-3.407D+21	6.960D+03	-1.001	-12.8	-6.215D-05	2.688D-05	2.965	1.6076D-01	2.9677D-02	1.9044D-01	0.148	
1	+6.60	1050	-3.561D+21	7.192D+03	-1.001	-12.6	-6.041D-05	2.624D-05	2.977	1.6684D-01	2.9673D-02	1.9651D-01	0.140	
1	+6.80	1050	-3.718D+21	7.425D+03	-1.001	-12.5	-5.875D-05	2.563D-05	2.989	1.7294D-01	2.9669D-02	2.0261D-01	0.133	
1	+7.00	1050	-3.878D+21	7.659D+03	-1.000	-12.3	-5.718D-05	2.504D-05	3.001	1.7908D-01	2.9666D-02	2.0874D-01	0.126	
1	+7.20	1050	-4.039D+21	7.894D+03	-1.000	-12.2	-5.568D-05	2.447D-05	3.012	1.8524D-01	2.9664D-02	2.1490D-01	0.120	
1	+7.40	1050	-4.203D+21	8.129D+03	-1.000	-12.1	-5.425D-05	2.392D-05	3.022	1.9142D-01	2.9661D-02	2.2108D-01	0.114	
1	+7.60	1050	-4.370D+21	8.365D+03	-1.000	-12.0	-5.288D-05	2.339D-05	3.032	1.9763D-01	2.9659D-02	2.2729D-01	0.108	
1	+7.80	1050	-4.538D+21	8.602D+03	-1.000	-11.8	-5.158D-05	2.288D-05	3.042	2.0385D-01	2.9657D-02	2.3351D-01	0.103	
1	+8.00	1050	-4.709D+21	8.839D+03	-1.000	-11.7	-5.034D-05	2.240D-05	3.049	2.1000D-01	2.9656D-02	2.3966D-01	0.098	

	x	Eg eV	Atomic-Spacing cm	Debye K	Sound-Velocity cm/s	Num-Density cm-3	Mass-Density g-cm-3								
	mc+	mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-			
	1.3990+00	1.400+00	2.9380+00	2.940+00	2.7400+01	2.740+01	0.0000+00	0.000+00	9.1000-01	9.100-01	2.0000+00	2.000+00			
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT		
1	-5.00	1300	+8.1730+19	2.8900+02	+0.930	+20.5	+2.9890-04	2.5820-05	5.114	1.42590-02	3.51720-02	4.94320-02	0.679		
1	-4.80	1300	+6.6840+19	2.4800+02	+0.885	+20.5	+3.0160-04	2.2560-05	6.492	1.55350-02	3.51350-02	5.06700-02	0.579		
1	-4.60	1300	+5.4150+19	2.1370+02	+0.821	+20.2	+2.9910-04	1.9120-05	8.420	1.73570-02	3.50910-02	5.24480-02	0.474		
1	-4.40	1300	+4.3280+19	1.8540+02	+0.731	+19.5	+2.8950-04	1.5540-05	11.022	1.97120-02	3.50350-02	5.47480-02	0.369		
1	-4.20	1300	+3.3910+19	1.6270+02	+0.612	+18.3	+2.7040-04	1.1900-05	14.360	2.25350-02	3.49770-02	5.75130-02	0.269		
1	-4.00	1300	+2.5740+19	1.4510+02	+0.467	+16.4	+2.3950-04	8.3280-06	18.339	2.56780-02	3.49140-02	6.05920-02	0.179		
1	-3.80	1300	+1.8490+19	1.3260+02	+0.306	+13.7	+1.9530-04	5.0550-06	22.590	2.88850-02	3.48350-02	6.37210-02	0.103		
1	-3.60	1300	+1.1910+19	1.2480+02	+0.152	+10.0	+1.3790-04	2.3720-06	26.422	3.18090-02	3.47450-02	6.65550-02	0.046		
1	-3.40	1300	+5.7730+18	1.2210+02	+0.040	+5.3	+7.0150-05	6.0070-07	28.937	3.40790-02	3.46420-02	6.87220-02	0.011		
1	-3.20	1300	-3.4370+17	1.2520+02	-0.000	-0.2	-1.8820-06	4.4360-10	29.342	3.54420-02	3.45250-02	6.99670-02	0.000		
1	-3.00	1300	-6.0890+18	1.2210+02	-0.045	-5.6	-7.3890-05	6.6650-07	28.852	3.39810-02	3.43920-02	6.83730-02	0.013		
1	-2.80	1300	-1.2250+19	1.2510+02	-0.160	-10.2	-1.4120-04	2.4930-06	26.245	3.16690-02	3.42410-02	6.59100-02	0.049		
1	-2.60	1300	-1.8850+19	1.3310+02	-0.314	-13.8	-1.9800-04	5.2160-06	22.369	2.87200-02	3.40720-02	6.27930-02	0.108		
1	-2.40	1300	-2.6140+19	1.4590+02	-0.475	-16.6	-2.4150-04	8.5110-06	18.118	2.55080-02	3.38840-02	5.93920-02	0.186		
1	-2.20	1300	-3.4370+19	1.6370+02	-0.619	-18.4	-2.7170-04	1.2090-05	14.167	2.23770-02	3.36760-02	5.60530-02	0.280		
1	-2.00	1300	-4.3810+19	1.8670+02	-0.736	-19.6	-2.9020-04	1.5730-05	10.867	1.95760-02	3.34470-02	5.30220-02	0.386		
1	-1.80	1300	-5.4770+19	2.1530+02	-0.825	-20.2	-2.9940-04	1.9300-05	8.302	1.72470-02	3.31970-02	5.04440-02	0.497		
1	-1.60	1300	-6.7570+19	2.5000+02	-0.888	-20.5	-3.0150-04	2.2740-05	6.407	1.54540-02	3.29290-02	4.83830-02	0.611		
1	-1.40	1300	-8.2590+19	2.9140+02	-0.932	-20.5	-2.9870-04	2.5990-05	5.054	1.42070-02	3.26420-02	4.68490-02	0.721		
1	-1.20	1300	-1.0020+20	3.4000+02	-0.961	-20.4	-2.9230-04	2.9060-05	4.113	1.34890-02	3.23410-02	4.58290-02	0.824		
1	-1.00	1300	-1.2090+20	3.9650+02	-0.981	-20.1	-2.8370-04	3.1920-05	3.470	1.32720-02	3.20260-02	4.52970-02	0.916		
1	-0.80	1300	-1.4500+20	4.6160+02	-0.993	-19.7	-2.7370-04	3.4570-05	3.038	1.35270-02	3.17020-02	4.52290-02	0.994		
1	-0.60	1300	-1.7310+20	5.3580+02	-1.000	-19.3	-2.6280-04	3.7000-05	2.753	1.42290-02	3.13740-02	4.56030-02	1.055		
1	-0.40	1300	-2.0550+20	6.1980+02	-1.005	-18.9	-2.5150-04	3.9190-05	2.568	1.53550-02	3.10460-02	4.64010-02	1.098		
1	-0.20	1300	-2.4280+20	7.1390+02	-1.007	-18.5	-2.4000-04	4.1130-05	2.453	1.68900-02	3.07220-02	4.76120-02	1.123		
1	+0.00	1300	-2.8540+20	8.1840+02	-1.009	-18.1	-2.2870-04	4.2810-05	2.384	1.88200-02	3.04070-02	4.92270-02	1.131		
1	+0.20	1300	-3.3360+20	9.3360+02	-1.009	-17.6	-2.1760-04	4.4210-05	2.347	2.11350-02	3.01050-02	5.12400-02	1.122		
1	+0.40	1300	-3.8780+20	1.0590+03	-1.009	-17.2	-2.0690-04	4.5340-05	2.331	2.38250-02	2.98200-02	5.36440-02	1.099		
1	+0.60	1300	-4.4830+20	1.1960+03	-1.009	-16.8	-1.9650-04	4.6180-05	2.331	2.68810-02	2.95530-02	5.64340-02	1.064		
1	+0.80	1300	-5.1520+20	1.3420+03	-1.008	-16.4	-1.8670-04	4.6760-05	2.340	3.02920-02	2.93070-02	5.95990-02	1.020		
1	+1.00	1300	-5.8880+20	1.4980+03	-1.008	-16.0	-1.7730-04	4.7080-05	2.356	3.40510-02	2.90830-02	6.31350-02	0.970		
1	+1.20	1300	-6.6890+20	1.6630+03	-1.007	-15.6	-1.6840-04	4.7170-05	2.377	3.81370-02	2.88810-02	6.70180-02	0.915		
1	+1.40	1300	-7.5570+20	1.8360+03	-1.006	-15.3	-1.6010-04	4.7050-05	2.401	4.25390-02	2.87010-02	7.12400-02	0.859		
1	+1.60	1300	-8.4920+20	2.0180+03	-1.006	-14.9	-1.5220-04	4.6740-05	2.427	4.72470-02	2.85410-02	7.57880-02	0.802		
1	+1.80	1300	-9.4910+20	2.2060+03	-1.005	-14.6	-1.4480-04	4.6270-05	2.455	5.22370-02	2.84020-02	8.06390-02	0.746		
1	+2.00	1300	-1.0550+21	2.4010+03	-1.005	-14.3	-1.3790-04	4.5660-05	2.483	5.75060-02	2.82800-02	8.57850-02	0.692		
1	+2.20	1300	-1.1680+21	2.6020+03	-1.004	-14.0	-1.3140-04	4.4940-05	2.511	6.30250-02	2.81740-02	9.11990-02	0.641		
1	+2.40	1300	-1.2870+21	2.8080+03	-1.004	-13.7	-1.2540-04	4.4120-05	2.540	6.87830-02	2.80830-02	9.68660-02	0.592		
1	+2.60	1300	-1.4110+21	3.0180+03	-1.004	-13.4	-1.1970-04	4.3250-05	2.568	7.47630-02	2.80050-02	1.02770-01	0.547		
1	+2.80	1300	-1.5420+21	3.2330+03	-1.003	-13.1	-1.1440-04	4.2320-05	2.595	8.09490-02	2.79380-02	1.08890-01	0.505		
1	+3.00	1300	-1.6770+21	3.4520+03	-1.003	-12.9	-1.0950-04	4.1350-05	2.623	8.73270-02	2.78810-02	1.15210-01	0.467		
1	+3.20	1300	-1.8190+21	3.6740+03	-1.003	-12.6	-1.0480-04	4.0360-05	2.649	9.38710-02	2.78330-02	1.21700-01	0.431		
1	+3.40	1300	-1.9650+21	3.8990+03	-1.003	-12.4	-1.0050-04	3.9360-05	2.675	1.00600-01	2.77920-02	1.28400-01	0.399		
1	+3.60	1300	-2.1170+21	4.1270+03	-1.003	-12.2	-9.6410-05	3.8360-05	2.701	1.07500-01	2.77580-02	1.35260-01	0.369		
1	+3.80	1300	-2.2730+21	4.3570+03	-1.002	-12.0	-9.2610-05	3.7370-05	2.724	1.14490-01	2.77290-02	1.42210-01	0.342		
1	+4.00	1300	-2.4340+21	4.5890+03	-1.002	-11.8	-8.9040-05	3.6390-05	2.747	1.21620-01	2.77040-02	1.49330-01	0.317		
1	+4.20	1300	-2.6000+21	4.8240+03	-1.002	-11.6	-8.5690-05	3.5420-05	2.770	1.28880-01	2.76830-02	1.56570-01	0.294		
1	+4.40	1300	-2.7700+21	5.0600+03	-1.002	-11.4	-8.2540-05	3.4470-05	2.791	1.36250-01	2.76650-02	1.63910-01	0.273		
1	+4.60	1300	-2.9440+21	5.2980+03	-1.002	-11.3	-7.9580-05	3.3550-05	2.812	1.43710-01	2.76510-02	1.71360-01	0.255		
1	+4.80	1300	-3.1230+21	5.5380+03	-1.002	-11.1	-7.6790-05	3.2650-05	2.832	1.51270-01	2.76380-02	1.78910-01	0.237		
1	+5.00	1300	-3.3060+21	5.7780+03	-1.002	-10.9	-7.4160-05	3.1780-05	2.851	1.58910-01	2.76270-02	1.86530-01	0.221		
1	+5.20	1300	-3.4930+21	6.0210+03	-1.001	-10.8	-7.1680-05	3.0940-05	2.869	1.66620-01	2.76180-02	1.94240-01	0.207		
1	+5.40	1300	-3.6840+21	6.2640+03	-1.001	-10.6	-6.9350-05	3.0120-05	2.886	1.74400-01	2.76110-02	2.02010-01	0.194		
1	+5.60	1300	-3.8780+21	6.5080+03	-1.001	-10.5	-6.7120-05	2.9320-05	2.905	1.82390-01	2.76040-02	2.09990-01	0.182		
1	+5.80	1300	-4.0770+21	6.7540+03	-1.001	-10.4	-6.5040-05	2.8570-05	2.919	1.90160-01	2.75990-02	2.17750-01	0.171		
1	+6.00	1300	-4.2790+21	7.0000+03	-1.001	-10.2	-6.3060-05	2.7840-05	2.934	1.98110-01	2.75940-02	2.25710-01	0.160		
1	+6.20	1300	-4.4840+21	7.2470+03	-1.001	-10.1	-6.1190-05	2.7130-05	2.948	2.06120-01	2.75900-02	2.33710-01	0.151		
1	+6.40	1300	-4.6940+21	7.4950+03	-1.001	-10.0	-5.9410-05	2.6450-05	2.962	2.14170-01	2.75870-02	2.41750-01	0.142		
1	+6.60	1300	-4.9060+21	7.7440+03	-1.001	-9.9	-5.7720-05	2.5800-05	2.975	2.22260-01	2.75840-02	2.49840-01	0.134		
1	+6.80	1300	-5.1220+21	7.9930+03	-1.001	-9.8	-5.6110-05	2.5170-05	2.988	2.30380-01	2.75810-02	2.57960-01	0.127		
1	+7.00	1300	-5.3420+21	8.2440+03	-1.001	-9.6	-5.4580-05	2.4560-05	3.000	2.38540-01	2.75790-02	2.66120-01	0.120		
1	+7.20	1300	-5.5650+21	8.4940+03	-1.001	-9.5	-5.3130-05	2.3980-05	3.011	2.46730-01	2.75770-02	2.74300-01	0.114		
1	+7.40	1300	-5.7910+21	8.7460+03	-1.001	-9.4	-5.1750-05	2.3420-05	3.022	2.54940-01	2.75750-02	2.82520-01	0.108		
1	+7.60	1300	-6.0200+21	8.9980+03	-1.001	-9.3	-5.0420-05	2.2880-05	3.032	2.63180-01	2.75740-02	2.90750-01	0.102		
1	+7.80	1300	-6.2520+21	9.2500+03	-1.001	-9.2	-4.9160-05	2.2360-05	3.042	2.71480-01	2.75720-02	2.99050-01	0.097		
1	+8.00	1300	-6.4870+21	9.5030+03	-1.001	-9.2	-4.7960-05	2.1860-05	3.051	2.79730-01	2.75710-02	3.07300-01	0.092		

x	Eg eV	Atomic-Spacing cm		Debye Sound-Velocity K cm/s		Num-Density cm-3		Mass-Density g-cm-3					
1	0.250	0.9565	5.4876D-08	535.6	4.934D+05	4.841D+22	3.152D+00						
	mc+	mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-	
1.399D+00	1.40D+00	2.938D+00	2.94D+00	2.74D+01	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00		
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT
1	-5.00	300	-2.786D+17	9.022D+00	-1.048	-211.9	-6.194D-04	3.461D-06	1.986	3.9893D-05	7.1284D-02	7.1324D-02	0.015
1	-4.80	300	-3.400D+17	1.082D+01	-1.043	-207.3	-6.038D-04	3.946D-06	1.990	4.7942D-05	7.0924D-02	7.0972D-02	0.017
1	-4.60	300	-4.151D+17	1.296D+01	-1.039	-202.5	-5.883D-04	4.486D-06	1.994	5.7544D-05	7.0514D-02	7.0572D-02	0.019
1	-4.40	300	-5.066D+17	1.549D+01	-1.035	-197.6	-5.729D-04	5.086D-06	2.000	6.8980D-05	7.0051D-02	7.0120D-02	0.022
1	-4.20	300	-6.181D+17	1.849D+01	-1.031	-192.5	-5.577D-04	5.750D-06	2.007	8.2578D-05	6.9531D-02	6.9614D-02	0.025
1	-4.00	300	-7.541D+17	2.201D+01	-1.028	-187.4	-5.426D-04	6.480D-06	2.014	9.8716D-05	6.8947D-02	6.9045D-02	0.028
1	-3.80	300	-9.198D+17	2.616D+01	-1.026	-182.1	-5.276D-04	7.280D-06	2.024	1.1783D-04	6.8296D-02	6.8414D-02	0.032
1	-3.60	300	-1.121D+18	3.101D+01	-1.024	-176.7	-5.127D-04	8.151D-06	2.034	1.4044D-04	6.7576D-02	6.7717D-02	0.036
1	-3.40	300	-1.367D+18	3.669D+01	-1.022	-171.2	-4.979D-04	9.094D-06	2.046	1.6713D-04	6.6785D-02	6.6952D-02	0.041
1	-3.20	300	-1.665D+18	4.330D+01	-1.021	-165.7	-4.832D-04	1.011D-05	2.060	1.9857D-04	6.5920D-02	6.6119D-02	0.046
1	-3.00	300	-2.028D+18	5.098D+01	-1.020	-160.1	-4.686D-04	1.120D-05	2.076	2.3555D-04	6.4983D-02	6.5219D-02	0.051
1	-2.80	300	-2.467D+18	5.987D+01	-1.020	-154.6	-4.542D-04	1.235D-05	2.093	2.7894D-04	6.3975D-02	6.4254D-02	0.058
1	-2.60	300	-3.000D+18	7.014D+01	-1.021	-149.0	-4.398D-04	1.357D-05	2.112	3.2975D-04	6.2898D-02	6.3228D-02	0.064
1	-2.40	300	-3.644D+18	8.196D+01	-1.022	-143.4	-4.255D-04	1.484D-05	2.133	3.8911D-04	6.1760D-02	6.2150D-02	0.072
1	-2.20	300	-4.422D+18	9.553D+01	-1.023	-138.0	-4.114D-04	1.617D-05	2.155	4.5832D-04	6.0566D-02	6.1024D-02	0.079
1	-2.00	300	-5.358D+18	1.111D+02	-1.025	-132.6	-3.973D-04	1.753D-05	2.179	5.3876D-04	5.9325D-02	5.9864D-02	0.088
1	-1.80	300	-6.482D+18	1.288D+02	-1.026	-127.3	-3.833D-04	1.892D-05	2.205	6.3212D-04	5.8048D-02	5.8680D-02	0.097
1	-1.60	300	-7.827D+18	1.489D+02	-1.028	-122.1	-3.694D-04	2.032D-05	2.233	7.4005D-04	5.6746D-02	5.7486D-02	0.106
1	-1.40	300	-9.431D+18	1.717D+02	-1.030	-117.1	-3.556D-04	2.171D-05	2.261	8.6444D-04	5.5431D-02	5.6296D-02	0.116
1	-1.20	300	-1.133D+19	1.975D+02	-1.032	-112.2	-3.419D-04	2.309D-05	2.291	1.0073D-03	5.4117D-02	5.5125D-02	0.126
1	-1.00	300	-1.358D+19	2.265D+02	-1.033	-107.6	-3.284D-04	2.443D-05	2.322	1.1707D-03	5.2819D-02	5.3990D-02	0.136
1	-0.80	300	-1.622D+19	2.589D+02	-1.035	-103.1	-3.151D-04	2.570D-05	2.354	1.3567D-03	5.1543D-02	5.2900D-02	0.146
1	-0.60	300	-1.931D+19	2.951D+02	-1.036	-98.8	-3.019D-04	2.691D-05	2.386	1.5673D-03	5.0304D-02	5.1871D-02	0.156
1	-0.40	300	-2.288D+19	3.352D+02	-1.037	-94.8	-2.891D-04	2.801D-05	2.418	1.8046D-03	4.9111D-02	5.0916D-02	0.165
1	-0.20	300	-2.700D+19	3.794D+02	-1.037	-91.0	-2.765D-04	2.900D-05	2.450	2.0699D-03	4.7974D-02	5.0044D-02	0.174
1	+0.00	300	-3.171D+19	4.279D+02	-1.037	-87.3	-2.642D-04	2.987D-05	2.482	2.3645D-03	4.6900D-02	4.9264D-02	0.182
1	+0.20	300	-3.704D+19	4.806D+02	-1.037	-84.0	-2.523D-04	3.060D-05	2.514	2.6894D-03	4.5892D-02	4.8581D-02	0.189
1	+0.40	300	-4.304D+19	5.375D+02	-1.036	-80.8	-2.409D-04	3.119D-05	2.545	3.0448D-03	4.4954D-02	4.7999D-02	0.195
1	+0.60	300	-4.974D+19	5.985D+02	-1.035	-77.8	-2.299D-04	3.164D-05	2.575	3.4307D-03	4.4087D-02	4.7518D-02	0.200
1	+0.80	300	-5.715D+19	6.636D+02	-1.035	-75.0	-2.194D-04	3.194D-05	2.604	3.8467D-03	4.3293D-02	4.7140D-02	0.203
1	+1.00	300	-6.529D+19	7.324D+02	-1.034	-72.4	-2.094D-04	3.212D-05	2.632	4.2917D-03	4.2569D-02	4.6860D-02	0.206
1	+1.20	300	-7.417D+19	8.047D+02	-1.033	-69.9	-1.999D-04	3.217D-05	2.660	4.7647D-03	4.1913D-02	4.6677D-02	0.207
1	+1.40	300	-8.380D+19	8.804D+02	-1.032	-67.6	-1.910D-04	3.210D-05	2.686	5.2638D-03	4.1321D-02	4.6585D-02	0.207
1	+1.60	300	-9.415D+19	9.590D+02	-1.030	-65.5	-1.825D-04	3.194D-05	2.711	5.7883D-03	4.0791D-02	4.6579D-02	0.206
1	+1.80	300	-1.052D+20	1.040D+03	-1.029	-63.5	-1.745D-04	3.169D-05	2.735	6.3357D-03	4.0318D-02	4.6653D-02	0.204
1	+2.00	300	-1.170D+20	1.124D+03	-1.028	-61.7	-1.670D-04	3.137D-05	2.759	6.9049D-03	3.9897D-02	4.6802D-02	0.201
1	+2.20	300	-1.295D+20	1.211D+03	-1.027	-59.9	-1.600D-04	3.099D-05	2.781	7.4942D-03	3.9524D-02	4.7018D-02	0.198
1	+2.40	300	-1.426D+20	1.299D+03	-1.026	-58.3	-1.534D-04	3.056D-05	2.802	8.1022D-03	3.9194D-02	4.7296D-02	0.194
1	+2.60	300	-1.565D+20	1.389D+03	-1.025	-56.8	-1.472D-04	3.009D-05	2.822	8.7277D-03	3.8904D-02	4.7632D-02	0.190
1	+2.80	300	-1.709D+20	1.481D+03	-1.024	-55.4	-1.414D-04	2.960D-05	2.842	9.3693D-03	3.8649D-02	4.8018D-02	0.185
1	+3.00	300	-1.860D+20	1.575D+03	-1.023	-54.1	-1.359D-04	2.908D-05	2.860	1.0024D-02	3.8425D-02	4.8449D-02	0.180
1	+3.20	300	-2.016D+20	1.670D+03	-1.022	-52.8	-1.308D-04	2.855D-05	2.878	1.0697D-02	3.8228D-02	4.8925D-02	0.175
1	+3.40	300	-2.179D+20	1.766D+03	-1.021	-51.7	-1.259D-04	2.801D-05	2.895	1.1384D-02	3.8056D-02	4.9441D-02	0.170
1	+3.60	300	-2.346D+20	1.864D+03	-1.020	-50.6	-1.214D-04	2.747D-05	2.911	1.2077D-02	3.7906D-02	4.9983D-02	0.165
1	+3.80	300	-2.520D+20	1.963D+03	-1.020	-49.6	-1.172D-04	2.694D-05	2.925	1.2782D-02	3.7775D-02	5.0557D-02	0.160
1	+4.00	300	-2.698D+20	2.063D+03	-1.019	-48.6	-1.131D-04	2.640D-05	2.940	1.3504D-02	3.7660D-02	5.1164D-02	0.155
1	+4.20	300	-2.882D+20	2.164D+03	-1.018	-47.7	-1.093D-04	2.587D-05	2.954	1.4234D-02	3.7559D-02	5.1793D-02	0.150
1	+4.40	300	-3.071D+20	2.267D+03	-1.017	-46.9	-1.058D-04	2.535D-05	2.967	1.4973D-02	3.7471D-02	5.2444D-02	0.145
1	+4.60	300	-3.264D+20	2.370D+03	-1.016	-46.1	-1.024D-04	2.484D-05	2.980	1.5722D-02	3.7394D-02	5.3116D-02	0.140
1	+4.80	300	-3.462D+20	2.474D+03	-1.016	-45.3	-9.918D-05	2.434D-05	2.992	1.6479D-02	3.7327D-02	5.3806D-02	0.136
1	+5.00	300	-3.665D+20	2.579D+03	-1.015	-44.6	-9.616D-05	2.385D-05	3.003	1.7245D-02	3.7268D-02	5.4513D-02	0.131
1	+5.20	300	-3.872D+20	2.685D+03	-1.014	-43.9	-9.330D-05	2.337D-05	3.014	1.8019D-02	3.7216D-02	5.5235D-02	0.127
1	+5.40	300	-4.084D+20	2.792D+03	-1.014	-43.3	-9.058D-05	2.291D-05	3.025	1.8801D-02	3.7170D-02	5.5971D-02	0.123
1	+5.60	300	-4.299D+20	2.900D+03	-1.013	-42.7	-8.801D-05	2.246D-05	3.035	1.9590D-02	3.7129D-02	5.6719D-02	0.119
1	+5.80	300	-4.519D+20	3.008D+03	-1.013	-42.1	-8.556D-05	2.202D-05	3.044	2.0386D-02	3.7094D-02	5.7480D-02	0.115
1	+6.00	300	-4.743D+20	3.118D+03	-1.012	-41.5	-8.323D-05	2.160D-05	3.053	2.1189D-02	3.7062D-02	5.8251D-02	0.111
1	+6.20	300	-4.971D+20	3.228D+03	-1.012	-41.0	-8.101D-05	2.118D-05	3.062	2.1998D-02	3.7034D-02	5.9032D-02	0.108
1	+6.40	300	-5.203D+20	3.338D+03	-1.011	-40.5	-7.890D-05	2.078D-05	3.070	2.2814D-02	3.7009D-02	5.9823D-02	0.104
1	+6.60	300	-5.439D+20	3.450D+03	-1.011	-40.0	-7.689D-05	2.040D-05	3.078	2.3635D-02	3.6987D-02	6.0622D-02	0.101
1	+6.80	300	-5.679D+20	3.562D+03	-1.010	-39.6	-7.497D-05	2.002D-05	3.085	2.4462D-02	3.6967D-02	6.1429D-02	0.098
1	+7.00	300	-5.922D+20	3.675D+03	-1.010	-39.1	-7.314D-05	1.965D-05	3.092	2.5295D-02	3.6949D-02	6.2244D-02	0.095
1	+7.20	300	-6.169D+20	3.788D+03	-1.010	-38.7	-7.138D-05	1.930D-05	3.099	2.6133D-02	3.6933D-02	6.3066D-02	0.092
1	+7.40	300	-6.419D+20	3.902D+03	-1.009	-38.3	-6.971D-05	1.896D-05	3.106	2.6976D-02	3.6919D-02	6.3895D-02	0.089
1	+7.60	300	-6.673D+20	4.017D+03	-1.009	-37.9	-6.810D-05	1.863D-05	3.112	2.7824D-02	3.6906D-02	6.4730D-02	0.086
1	+7.80	300	-6.931D+20	4.132D+03	-1.009	-37.5	-6.656D-05	1.831D-05	3.118	2.8677D-02	3.6894D-02	6.5570D-02	0.084
1	+8.00	300	-7.192D+20	4.248D+03	-1.008	-37.2	-6.509D-05	1.799D-05	3.123	2.9534D-02	3.6883D-02	6.6417D-02	0.081

x	Eg eV	Atomic-Spacing cm	Debye K	Sound-Velocity cm/s	Num-Density cm-3	Mass-Density g-cm-3									
1	0.250	0.8902	5.4876D-08	535.6	4.934D+05	4.841D+22	3.152D+00								
	mc+	mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-	ZT		
	1.399D+00	1.40D+00	2.938D+00	2.94D+00	2.740D+01	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00			
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT		
1	-5.00	550	-6.914D+17	9.662D+00	-1.075	-93.8	-6.124D-04	3.624D-06	2.056	8.1082D-05	5.2701D-02	5.2783D-02	0.038		
1	-4.80	550	-8.440D+17	1.167D+01	-1.070	-92.4	-5.964D-04	4.152D-06	2.032	9.6783D-05	5.2560D-02	5.2656D-02	0.043		
1	-4.60	550	-1.030D+18	1.409D+01	-1.065	-90.9	-5.804D-04	4.745D-06	2.016	1.1589D-04	5.2396D-02	5.2512D-02	0.050		
1	-4.40	550	-1.257D+18	1.698D+01	-1.060	-89.3	-5.645D-04	5.409D-06	2.006	1.3901D-04	5.2208D-02	5.2347D-02	0.057		
1	-4.20	550	-1.534D+18	2.043D+01	-1.055	-87.7	-5.487D-04	6.150D-06	2.001	1.6688D-04	5.1994D-02	5.2161D-02	0.065		
1	-4.00	550	-1.872D+18	2.455D+01	-1.050	-86.0	-5.329D-04	6.974D-06	1.999	2.0037D-04	5.1751D-02	5.1925D-02	0.074		
1	-3.80	550	-2.283D+18	2.946D+01	-1.045	-84.2	-5.173D-04	7.885D-06	2.000	2.4051D-04	5.1473D-02	5.1714D-02	0.084		
1	-3.60	550	-2.784D+18	3.529D+01	-1.041	-82.4	-5.018D-04	8.887D-06	2.003	2.8849D-04	5.1159D-02	5.1448D-02	0.095		
1	-3.40	550	-3.393D+18	4.220D+01	-1.037	-80.5	-4.864D-04	9.984D-06	2.007	3.4573D-04	5.0807D-02	5.1152D-02	0.107		
1	-3.20	550	-4.134D+18	5.037D+01	-1.033	-78.6	-4.711D-04	1.118D-05	2.013	4.1388D-04	5.0413D-02	5.0827D-02	0.121		
1	-3.00	550	-5.034D+18	5.999D+01	-1.029	-76.6	-4.560D-04	1.247D-05	2.021	4.9484D-04	4.9976D-02	5.0471D-02	0.136		
1	-2.80	550	-6.125D+18	7.130D+01	-1.026	-74.6	-4.409D-04	1.386D-05	2.030	5.9081D-04	4.9494D-02	5.0085D-02	0.152		
1	-2.60	550	-7.447D+18	8.456D+01	-1.024	-72.6	-4.260D-04	1.535D-05	2.041	7.0430D-04	4.8967D-02	4.9671D-02	0.170		
1	-2.40	550	-9.046D+18	1.000D+02	-1.022	-70.5	-4.113D-04	1.692D-05	2.053	8.3829D-04	4.8394D-02	4.9232D-02	0.189		
1	-2.20	550	-1.098D+19	1.181D+02	-1.020	-68.5	-3.966D-04	1.858D-05	2.067	9.9607D-04	4.7777D-02	4.8773D-02	0.209		
1	-2.00	550	-1.330D+19	1.390D+02	-1.018	-66.4	-3.822D-04	2.030D-05	2.082	1.1814D-03	4.7119D-02	4.8301D-02	0.231		
1	-1.80	550	-1.609D+19	1.632D+02	-1.017	-64.4	-3.678D-04	2.208D-05	2.099	1.3984D-03	4.6424D-02	4.7823D-02	0.254		
1	-1.60	550	-1.943D+19	1.911D+02	-1.016	-62.4	-3.537D-04	2.390D-05	2.118	1.6517D-03	4.5696D-02	4.7348D-02	0.278		
1	-1.40	550	-2.341D+19	2.230D+02	-1.016	-60.4	-3.397D-04	2.573D-05	2.138	1.9465D-03	4.4943D-02	4.6889D-02	0.302		
1	-1.20	550	-2.814D+19	2.595D+02	-1.015	-58.4	-3.259D-04	2.756D-05	2.160	2.2880D-03	4.4172D-02	4.6460D-02	0.326		
1	-1.00	550	-3.372D+19	3.010D+02	-1.015	-56.5	-3.123D-04	2.935D-05	2.183	2.6822D-03	4.3391D-02	4.6073D-02	0.350		
1	-0.80	550	-4.028D+19	3.479D+02	-1.015	-54.7	-2.989D-04	3.109D-05	2.208	3.1346D-03	4.2610D-02	4.5744D-02	0.374		
1	-0.60	550	-4.793D+19	4.005D+02	-1.014	-52.9	-2.859D-04	3.274D-05	2.234	3.6512D-03	4.1837D-02	4.5488D-02	0.396		
1	-0.40	550	-5.681D+19	4.593D+02	-1.014	-51.2	-2.732D-04	3.427D-05	2.261	4.2375D-03	4.1082D-02	4.5319D-02	0.416		
1	-0.20	550	-6.703D+19	5.245D+02	-1.014	-49.5	-2.608D-04	3.567D-05	2.288	4.8985D-03	4.0352D-02	4.5250D-02	0.434		
1	+0.00	550	-7.871D+19	5.964D+02	-1.014	-47.9	-2.488D-04	3.690D-05	2.317	5.6385D-03	3.9654D-02	4.5293D-02	0.448		
1	+0.20	550	-9.195D+19	6.749D+02	-1.013	-46.4	-2.372D-04	3.796D-05	2.346	6.4608D-03	3.8995D-02	4.5456D-02	0.459		
1	+0.40	550	-1.068D+20	7.601D+02	-1.013	-45.0	-2.260D-04	3.884D-05	2.375	7.3676D-03	3.8379D-02	4.5747D-02	0.467		
1	+0.60	550	-1.235D+20	8.519D+02	-1.013	-43.6	-2.154D-04	3.952D-05	2.405	8.3607D-03	3.7809D-02	4.6169D-02	0.471		
1	+0.80	550	-1.419D+20	9.501D+02	-1.012	-42.3	-2.052D-04	4.001D-05	2.434	9.4379D-03	3.7285D-02	4.6723D-02	0.471		
1	+1.00	550	-1.621D+20	1.054D+03	-1.012	-41.1	-1.956D-04	4.033D-05	2.463	1.0599D-02	3.6809D-02	4.7408D-02	0.468		
1	+1.20	550	-1.841D+20	1.164D+03	-1.012	-39.9	-1.864D-04	4.047D-05	2.492	1.1842D-02	3.6381D-02	4.8222D-02	0.462		
1	+1.40	550	-2.080D+20	1.279D+03	-1.011	-38.8	-1.778D-04	4.046D-05	2.521	1.3164D-02	3.5997D-02	4.9161D-02	0.453		
1	+1.60	550	-2.337D+20	1.400D+03	-1.011	-37.8	-1.697D-04	4.031D-05	2.549	1.4560D-02	3.5656D-02	5.0216D-02	0.441		
1	+1.80	550	-2.612D+20	1.524D+03	-1.010	-36.8	-1.621D-04	4.003D-05	2.577	1.6030D-02	3.5355D-02	5.1384D-02	0.428		
1	+2.00	550	-2.905D+20	1.653D+03	-1.010	-35.9	-1.549D-04	3.965D-05	2.604	1.7566D-02	3.5090D-02	5.2656D-02	0.414		
1	+2.20	550	-3.214D+20	1.786D+03	-1.010	-35.0	-1.481D-04	3.918D-05	2.630	1.9166D-02	3.4858D-02	5.4024D-02	0.399		
1	+2.40	550	-3.541D+20	1.922D+03	-1.009	-34.2	-1.418D-04	3.865D-05	2.655	2.0825D-02	3.4657D-02	5.5482D-02	0.383		
1	+2.60	550	-3.884D+20	2.061D+03	-1.009	-33.4	-1.359D-04	3.805D-05	2.680	2.2540D-02	3.4482D-02	5.7022D-02	0.367		
1	+2.80	550	-4.242D+20	2.203D+03	-1.009	-32.7	-1.303D-04	3.742D-05	2.704	2.4307D-02	3.4331D-02	5.8638D-02	0.351		
1	+3.00	550	-4.616D+20	2.347D+03	-1.008	-32.0	-1.251D-04	3.674D-05	2.726	2.6120D-02	3.4201D-02	6.0321D-02	0.335		
1	+3.20	550	-5.005D+20	2.494D+03	-1.008	-31.4	-1.202D-04	3.605D-05	2.749	2.7984D-02	3.4088D-02	6.2072D-02	0.319		
1	+3.40	550	-5.408D+20	2.644D+03	-1.007	-30.7	-1.156D-04	3.534D-05	2.770	2.9887D-02	3.3992D-02	6.3879D-02	0.304		
1	+3.60	550	-5.825D+20	2.795D+03	-1.007	-30.2	-1.113D-04	3.463D-05	2.791	3.1830D-02	3.3909D-02	6.5739D-02	0.290		
1	+3.80	550	-6.255D+20	2.948D+03	-1.007	-29.6	-1.072D-04	3.391D-05	2.810	3.3811D-02	3.3838D-02	6.7649D-02	0.276		
1	+4.00	550	-6.698D+20	3.103D+03	-1.006	-29.1	-1.034D-04	3.319D-05	2.829	3.5826D-02	3.3777D-02	6.9603D-02	0.262		
1	+4.20	550	-7.154D+20	3.259D+03	-1.006	-28.6	-9.983D-05	3.248D-05	2.847	3.7873D-02	3.3725D-02	7.1598D-02	0.250		
1	+4.40	550	-7.622D+20	3.417D+03	-1.006	-28.2	-9.643D-05	3.178D-05	2.864	3.9951D-02	3.3680D-02	7.3631D-02	0.237		
1	+4.60	550	-8.103D+20	3.577D+03	-1.006	-27.7	-9.323D-05	3.109D-05	2.881	4.2058D-02	3.3641D-02	7.5699D-02	0.226		
1	+4.80	550	-8.594D+20	3.738D+03	-1.005	-27.3	-9.021D-05	3.042D-05	2.897	4.4191D-02	3.3608D-02	7.7799D-02	0.215		
1	+5.00	550	-9.098D+20	3.900D+03	-1.005	-26.9	-8.735D-05	2.976D-05	2.912	4.6349D-02	3.3580D-02	7.9929D-02	0.205		
1	+5.20	550	-9.612D+20	4.063D+03	-1.005	-26.5	-8.464D-05	2.911D-05	2.926	4.8521D-02	3.3555D-02	8.2076D-02	0.195		
1	+5.40	550	-1.014D+21	4.228D+03	-1.005	-26.2	-8.208D-05	2.848D-05	2.940	5.0735D-02	3.3534D-02	8.4269D-02	0.186		
1	+5.60	550	-1.067D+21	4.394D+03	-1.004	-25.8	-7.965D-05	2.787D-05	2.953	5.2960D-02	3.3516D-02	8.6476D-02	0.177		
1	+5.80	550	-1.122D+21	4.560D+03	-1.004	-25.5	-7.736D-05	2.729D-05	2.965	5.5185D-02	3.3500D-02	8.8685D-02	0.169		
1	+6.00	550	-1.177D+21	4.728D+03	-1.004	-25.2	-7.515D-05	2.670D-05	2.978	5.7469D-02	3.3486D-02	9.0955D-02	0.161		
1	+6.20	550	-1.234D+21	4.897D+03	-1.004	-24.9	-7.307D-05	2.614D-05	2.990	5.9749D-02	3.3474D-02	9.3224D-02	0.154		
1	+6.40	550	-1.292D+21	5.066D+03	-1.004	-24.6	-7.109D-05	2.560D-05	3.001	6.2047D-02	3.3464D-02	9.5510D-02	0.147		
1	+6.60	550	-1.350D+21	5.237D+03	-1.003	-24.3	-6.920D-05	2.508D-05	3.011	6.4360D-02	3.3455D-02	9.7814D-02	0.141		
1	+6.80	550	-1.410D+21	5.408D+03	-1.003	-24.0	-6.740D-05	2.457D-05	3.021	6.6687D-02	3.3447D-02	1.0013D-01	0.135		
1	+7.00	550	-1.470D+21	5.580D+03	-1.003	-23.8	-6.568D-05	2.408D-05	3.031	6.9029D-02	3.3439D-02	1.0247D-01	0.129		
1	+7.20	550	-1.531D+21	5.753D+03	-1.003	-23.5	-6.404D-05	2.360D-05	3.040	7.1384D-02	3.3433D-02	1.0482D-01	0.124		
1	+7.40	550	-1.593D+21	5.927D+03	-1.003	-23.3	-6.248D-05	2.314D-05	3.049	7.3752D-02	3.3428D-02	1.0718D-01	0.119		
1	+7.60	550	-1.657D+21	6.102D+03	-1.003	-23.1	-6.098D-05	2.269D-05	3.057	7.6131D-02	3.3423D-02	1.0955D-01	0.114		
1	+7.80	550	-1.720D+21	6.277D+03	-1.002	-22.8	-5.955D-05	2.226D-05	3.065	7.8522D-02	3.3418D-02	1.1194D-01	0.109		
1	+8.00	550	-1.785D+21	6.453D+03	-1.002	-22.6	-5.817D-05	2.184D-05	3.073	8.0924D-02	3.3414D-02	1.1434D-01	0.105		

x	Eg eV	Atomic-Spacing cm	Debye K	Sound-Velocity cm/s	Num-Density cm ⁻³	Mass-Density g-cm ⁻³									
1	0.250	0.8240	5.4876D-08	535.6	4.934D+05	4.841D+22	3.152D+00								
mc+	mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-				
1.399D+00	1.40D+00	2.938D+00	2.94D+00	2.740D+01	2.74D+01	0.000D+00	0.000D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00				
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT		
1	-5.00	800	-1.041D+18	1.138D+01	-0.627	-42.7	-4.389D-04	2.193D-06	X29.932	2.022D-03	4.326D-02	4.5282D-02	0.039		
1	-4.80	800	-1.340D+18	1.321D+01	-0.752	-46.2	-4.744D-04	2.972D-06	X22.321	1.750D-03	4.3182D-02	4.4932D-02	0.053		
1	-4.60	800	-1.692D+18	1.552D+01	-0.847	-48.5	-4.953D-04	3.806D-06	X16.396	1.5103D-03	4.3093D-02	4.4603D-02	0.068		
1	-4.40	800	-2.112D+18	1.838D+01	-0.915	-49.7	-5.052D-04	4.692D-06	X12.005	1.3101D-03	4.2989D-02	4.4299D-02	0.085		
1	-4.20	800	-2.615D+18	2.190D+01	-0.962	-50.3	-5.071D-04	5.632D-06	8.857	1.1516D-03	4.2869D-02	4.4020D-02	0.102		
1	-4.00	800	-3.221D+18	2.618D+01	-0.993	-50.4	-5.034D-04	6.634D-06	6.654	1.0340D-03	4.2731D-02	4.3765D-02	0.121		
1	-3.80	800	-3.954D+18	3.135D+01	-1.012	-50.1	-4.958D-04	7.706D-06	5.136	9.5565D-04	4.2576D-02	4.3532D-02	0.142		
1	-3.60	800	-4.841D+18	3.756D+01	-1.024	-49.6	-4.856D-04	8.858D-06	4.102	9.1464D-04	4.2396D-02	4.3310D-02	0.164		
1	-3.40	800	-5.918D+18	4.501D+01	-1.030	-48.9	-4.736D-04	1.010D-05	3.404	9.0951D-04	4.2191D-02	4.3101D-02	0.187		
1	-3.20	800	-7.224D+18	5.389D+01	-1.033	-48.1	-4.605D-04	1.143D-05	2.937	9.3954D-04	4.1961D-02	4.2900D-02	0.213		
1	-3.00	800	-8.807D+18	6.445D+01	-1.033	-47.2	-4.467D-04	1.286D-05	2.627	1.0049D-03	4.1702D-02	4.2707D-02	0.241		
1	-2.80	800	-1.073D+19	7.697D+01	-1.032	-46.2	-4.325D-04	1.440D-05	2.422	1.1068D-03	4.1413D-02	4.2520D-02	0.271		
1	-2.60	800	-1.305D+19	9.176D+01	-1.031	-45.2	-4.180D-04	1.603D-05	2.290	1.2473D-03	4.1093D-02	4.2341D-02	0.303		
1	-2.40	800	-1.586D+19	1.092D+02	-1.029	-44.2	-4.034D-04	1.776D-05	2.206	1.4296D-03	4.0741D-02	4.2171D-02	0.337		
1	-2.20	800	-1.925D+19	1.296D+02	-1.026	-43.1	-3.888D-04	1.959D-05	2.154	1.6578D-03	4.0357D-02	4.2014D-02	0.373		
1	-2.00	800	-2.332D+19	1.535D+02	-1.024	-42.1	-3.742D-04	2.150D-05	2.125	1.9370D-03	3.9941D-02	4.1878D-02	0.411		
1	-1.80	800	-2.822D+19	1.814D+02	-1.022	-41.0	-3.597D-04	2.347D-05	2.112	2.2734D-03	3.9495D-02	4.1768D-02	0.450		
1	-1.60	800	-3.408D+19	2.136D+02	-1.020	-39.9	-3.454D-04	2.549D-05	2.109	2.6743D-03	3.9022D-02	4.1696D-02	0.489		
1	-1.40	800	-4.106D+19	2.509D+02	-1.018	-38.8	-3.313D-04	2.753D-05	2.113	3.1479D-03	3.8525D-02	4.1673D-02	0.529		
1	-1.20	800	-4.936D+19	2.937D+02	-1.016	-37.8	-3.173D-04	2.958D-05	2.124	3.7032D-03	3.8009D-02	4.1712D-02	0.567		
1	-1.00	800	-5.915D+19	3.427D+02	-1.015	-36.7	-3.036D-04	3.159D-05	2.138	4.3496D-03	3.7479D-02	4.1829D-02	0.604		
1	-0.80	800	-7.065D+19	3.983D+02	-1.013	-35.7	-2.902D-04	3.354D-05	2.156	5.0974D-03	3.6943D-02	4.2040D-02	0.638		
1	-0.60	800	-8.408D+19	4.611D+02	-1.012	-34.7	-2.771D-04	3.540D-05	2.176	5.9563D-03	3.6407D-02	4.2363D-02	0.668		
1	-0.40	800	-9.965D+19	5.315D+02	-1.011	-33.7	-2.643D-04	3.713D-05	2.198	6.9365D-03	3.5877D-02	4.2813D-02	0.694		
1	-0.20	800	-1.176D+20	6.099D+02	-1.010	-32.7	-2.519D-04	3.870D-05	2.223	8.0472D-03	3.5360D-02	4.3407D-02	0.713		
1	+0.00	800	-1.381D+20	6.966D+02	-1.010	-31.8	-2.399D-04	4.009D-05	2.248	9.2962D-03	3.4863D-02	4.4159D-02	0.726		
1	+0.20	800	-1.613D+20	7.916D+02	-1.009	-30.9	-2.284D-04	4.129D-05	2.275	1.0690D-02	3.4390D-02	4.5080D-02	0.733		
1	+0.40	800	-1.874D+20	8.950D+02	-1.008	-30.1	-2.173D-04	4.227D-05	2.303	1.2234D-02	3.3946D-02	4.6180D-02	0.732		
1	+0.60	800	-2.166D+20	1.007D+03	-1.008	-29.2	-2.067D-04	4.303D-05	2.331	1.3930D-02	3.3533D-02	4.7463D-02	0.725		
1	+0.80	800	-2.489D+20	1.126D+03	-1.007	-28.4	-1.967D-04	4.358D-05	2.360	1.5780D-02	3.3155D-02	4.8935D-02	0.712		
1	+1.00	800	-2.843D+20	1.254D+03	-1.007	-27.7	-1.872D-04	4.391D-05	2.389	1.7780D-02	3.2810D-02	5.0591D-02	0.694		
1	+1.20	800	-3.230D+20	1.388D+03	-1.006	-27.0	-1.781D-04	4.405D-05	2.418	1.9928D-02	3.2500D-02	5.2428D-02	0.672		
1	+1.40	800	-3.649D+20	1.529D+03	-1.006	-26.3	-1.697D-04	4.401D-05	2.448	2.2221D-02	3.2223D-02	5.4445D-02	0.647		
1	+1.60	800	-4.100D+20	1.677D+03	-1.005	-25.7	-1.617D-04	4.381D-05	2.477	2.4654D-02	3.1978D-02	5.6632D-02	0.619		
1	+1.80	800	-4.582D+20	1.830D+03	-1.005	-25.0	-1.541D-04	4.348D-05	2.506	2.7217D-02	3.1763D-02	5.8980D-02	0.590		
1	+2.00	800	-5.095D+20	1.988D+03	-1.005	-24.5	-1.471D-04	4.302D-05	2.534	2.9909D-02	3.1574D-02	6.1483D-02	0.560		
1	+2.20	800	-5.639D+20	2.151D+03	-1.004	-23.9	-1.405D-04	4.246D-05	2.562	3.2718D-02	3.1410D-02	6.4128D-02	0.530		
1	+2.40	800	-6.212D+20	2.318D+03	-1.004	-23.4	-1.343D-04	4.181D-05	2.589	3.5639D-02	3.1268D-02	6.6907D-02	0.500		
1	+2.60	800	-6.813D+20	2.490D+03	-1.004	-22.9	-1.285D-04	4.111D-05	2.616	3.8664D-02	3.1146D-02	6.9811D-02	0.471		
1	+2.80	800	-7.442D+20	2.664D+03	-1.004	-22.4	-1.231D-04	4.036D-05	2.642	4.1788D-02	3.1041D-02	7.2829D-02	0.443		
1	+3.00	800	-8.098D+20	2.842D+03	-1.003	-22.0	-1.180D-04	3.956D-05	2.667	4.5003D-02	3.0952D-02	7.5954D-02	0.417		
1	+3.20	800	-8.780D+20	3.023D+03	-1.003	-21.6	-1.132D-04	3.875D-05	2.692	4.8303D-02	3.0875D-02	7.9178D-02	0.392		
1	+3.40	800	-9.487D+20	3.207D+03	-1.003	-21.2	-1.087D-04	3.792D-05	2.715	5.1683D-02	3.0809D-02	8.2492D-02	0.368		
1	+3.60	800	-1.022D+21	3.392D+03	-1.003	-20.8	-1.045D-04	3.708D-05	2.738	5.5137D-02	3.0754D-02	8.5890D-02	0.345		
1	+3.80	800	-1.097D+21	3.581D+03	-1.003	-20.4	-1.006D-04	3.624D-05	2.760	5.8659D-02	3.0706D-02	8.9365D-02	0.324		
1	+4.00	800	-1.175D+21	3.771D+03	-1.002	-20.1	-9.690D-05	3.540D-05	2.781	6.2245D-02	3.0666D-02	9.2912D-02	0.305		
1	+4.20	800	-1.255D+21	3.963D+03	-1.002	-19.8	-9.341D-05	3.458D-05	2.801	6.5891D-02	3.0632D-02	9.6523D-02	0.287		
1	+4.40	800	-1.337D+21	4.157D+03	-1.002	-19.4	-9.013D-05	3.377D-05	2.820	6.9592D-02	3.0603D-02	1.0020D-01	0.270		
1	+4.60	800	-1.421D+21	4.352D+03	-1.002	-19.1	-8.704D-05	3.297D-05	2.839	7.3345D-02	3.0578D-02	1.0392D-01	0.254		
1	+4.80	800	-1.508D+21	4.549D+03	-1.002	-18.9	-8.412D-05	3.219D-05	2.857	7.7145D-02	3.0557D-02	1.0770D-01	0.239		
1	+5.00	800	-1.596D+21	4.747D+03	-1.002	-18.6	-8.136D-05	3.143D-05	2.874	8.0990D-02	3.0539D-02	1.1153D-01	0.225		
1	+5.20	800	-1.686D+21	4.947D+03	-1.002	-18.3	-7.876D-05	3.069D-05	2.890	8.4875D-02	3.0524D-02	1.1540D-01	0.213		
1	+5.40	800	-1.778D+21	5.148D+03	-1.001	-18.1	-7.630D-05	2.996D-05	2.906	8.8799D-02	3.0511D-02	1.1931D-01	0.201		
1	+5.60	800	-1.872D+21	5.350D+03	-1.001	-17.9	-7.396D-05	2.927D-05	2.921	9.2759D-02	3.0499D-02	1.2326D-01	0.190		
1	+5.80	800	-1.968D+21	5.553D+03	-1.001	-17.6	-7.175D-05	2.859D-05	2.935	9.6752D-02	3.0490D-02	1.2724D-01	0.180		
1	+6.00	800	-2.066D+21	5.757D+03	-1.001	-17.4	-6.965D-05	2.793D-05	2.949	1.0078D-01	3.0482D-02	1.3126D-01	0.170		
1	+6.20	800	-2.165D+21	5.962D+03	-1.001	-17.2	-6.766D-05	2.729D-05	2.962	1.0483D-01	3.0474D-02	1.3530D-01	0.161		
1	+6.40	800	-2.266D+21	6.168D+03	-1.001	-17.0	-6.577D-05	2.668D-05	2.974	1.0891D-01	3.0468D-02	1.3938D-01	0.153		
1	+6.60	800	-2.369D+21	6.375D+03	-1.001	-16.8	-6.397D-05	2.608D-05	2.986	1.1301D-01	3.0463D-02	1.4347D-01	0.145		
1	+6.80	800	-2.473D+21	6.583D+03	-1.001	-16.6	-6.225D-05	2.551D-05	2.997	1.1714D-01	3.0458D-02	1.4760D-01	0.138		
1	+7.00	800	-2.579D+21	6.792D+03	-1.001	-16.5	-6.062D-05	2.495D-05	3.008	1.2129D-01	3.0454D-02	1.5174D-01	0.132		
1	+7.20	800	-2.686D+21	7.001D+03	-1.001	-16.3	-5.906D-05	2.442D-05	3.019	1.2546D-01	3.0451D-02	1.5591D-01	0.125		
1	+7.40	800	-2.795D+21	7.211D+03	-1.001	-16.1	-5.757D-05	2.390D-05	3.028	1.2965D-01	3.0448D-02	1.6009D-01	0.119		
1	+7.60	800	-2.906D+21	7.422D+03	-1.001	-16.0	-5.615D-05	2.340D-05	3.038	1.3385D-01	3.0445D-02	1.6430D-01	0.114		
1	+7.80	800	-3.018D+21	7.634D+03	-1.001	-15.8	-5.479D-05	2.292D-05	3.047	1.3808D-01	3.0443D-02	1.6852D-01	0.109		
1	+8.00	800	-3.132D+21	7.846D+03	-1.001	-15.6	-5.349D-05	2.245D-05	3.056	1.4234D-01	3.0440D-02	1.7278D-01	0.104		

x	Eg eV	Atomic-Spacing cm	Debye K	Sound-Velocity cm/s	Num-Density cm-3	Mass-Density g-cm-3							
1 0.250	0.7577	5.4876D-08	535.6	4.934D+05	4.841D+22	3.152D+00							
mc+	mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-		
1.399D+00	1.40D+00	2.938D+00	2.94D+00	2.740D+01	2.74D+01	0.000D+00	0.000D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00		
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT
1	-5.00	1050	+7.329D+18	5.728D+01	+0.488	+23.8	+2.969D-04	5.048D-06	X23.866	1.0652D-02	3.7340D-02	4.7992D-02	0.110
1	-4.80	1050	+5.283D+18	5.174D+01	+0.325	+19.9	+2.442D-04	3.085D-06	X29.825	1.2022D-02	3.7291D-02	4.9313D-02	0.066
1	-4.60	1050	+3.441D+18	4.813D+01	+0.168	+14.6	+1.755D-04	1.483D-06	X35.380	1.3267D-02	3.7233D-02	5.0500D-02	0.031
1	-4.40	1050	+1.733D+18	4.644D+01	+0.048	+8.1	+9.369D-05	4.077D-07	X39.307	1.4224D-02	3.7166D-02	5.1390D-02	0.008
1	-4.20	1050	+9.201D+16	4.692D+01	+0.000	+0.5	+5.027D-06	1.186D-09	X40.445	1.4784D-02	3.7089D-02	5.1873D-02	0.000
1	-4.00	1050	-1.545D+18	4.638D+01	-0.039	-7.3	-8.386D-05	3.262D-07	X39.594	1.4307D-02	3.7000D-02	5.1307D-02	0.007
1	-3.80	1050	-3.243D+18	4.784D+01	-0.152	-14.0	-1.669D-04	1.332D-06	X35.929	1.3392D-02	3.6899D-02	5.0292D-02	0.028
1	-3.60	1050	-5.066D+18	5.123D+01	-0.307	-19.3	-2.372D-04	2.883D-06	X30.494	1.2172D-02	3.6781D-02	4.8953D-02	0.062
1	-3.40	1050	-7.085D+18	5.655D+01	-0.470	-23.4	-2.917D-04	4.813D-06	X24.528	1.0808D-02	3.6645D-02	4.7453D-02	0.107
1	-3.20	1050	-9.376D+18	6.391D+01	-0.618	-26.3	-3.303D-04	6.972D-06	X18.978	9.4493D-03	3.6492D-02	4.5941D-02	0.159
1	-3.00	1050	-1.203D+19	7.345D+01	-0.738	-28.1	-3.548D-04	9.249D-06	X14.339	8.2063D-03	3.6319D-02	4.4525D-02	0.218
1	-2.80	1050	-1.513D+19	8.544D+01	-0.829	-29.2	-3.681D-04	1.158D-05	X10.732	7.1440D-03	3.6124D-02	4.3268D-02	0.281
1	-2.60	1050	-1.881D+19	1.001D+02	-0.894	-29.7	-3.729D-04	1.392D-05	8.064	6.2927D-03	3.5906D-02	4.2199D-02	0.346
1	-2.40	1050	-2.318D+19	1.179D+02	-0.939	-29.8	-3.715D-04	1.628D-05	6.159	5.6595D-03	3.5665D-02	4.1324D-02	0.414
1	-2.20	1050	-2.839D+19	1.392D+02	-0.969	-29.7	-3.658D-04	1.863D-05	4.830	5.2399D-03	3.5399D-02	4.0639D-02	0.481
1	-2.00	1050	-3.462D+19	1.645D+02	-0.988	-29.3	-3.572D-04	2.099D-05	3.921	5.0248D-03	3.5108D-02	4.0133D-02	0.549
1	-1.80	1050	-4.207D+19	1.942D+02	-1.000	-28.8	-3.467D-04	2.335D-05	3.307	5.0046D-03	3.4794D-02	3.9799D-02	0.616
1	-1.60	1050	-5.094D+19	2.290D+02	-1.007	-28.3	-3.350D-04	2.570D-05	2.898	5.1718D-03	3.4458D-02	3.9630D-02	0.681
1	-1.40	1050	-6.150D+19	2.695D+02	-1.011	-27.7	-3.225D-04	2.803D-05	2.630	5.5221D-03	3.4102D-02	3.9624D-02	0.743
1	-1.20	1050	-7.401D+19	3.163D+02	-1.013	-27.0	-3.096D-04	3.032D-05	2.457	6.0546D-03	3.3729D-02	3.9783D-02	0.800
1	-1.00	1050	-8.877D+19	3.701D+02	-1.014	-26.4	-2.966D-04	3.256D-05	2.348	6.7710D-03	3.3342D-02	4.0113D-02	0.852
1	-0.80	1050	-1.061D+20	4.314D+02	-1.014	-25.7	-2.836D-04	3.470D-05	2.284	7.6774D-03	3.2947D-02	4.0625D-02	0.897
1	-0.60	1050	-1.263D+20	5.009D+02	-1.013	-25.1	-2.707D-04	3.672D-05	2.249	8.7787D-03	3.2549D-02	4.1328D-02	0.933
1	-0.40	1050	-1.498D+20	5.792D+02	-1.012	-24.4	-2.581D-04	3.859D-05	2.235	1.0084D-02	3.2153D-02	4.2237D-02	0.959
1	-0.20	1050	-1.767D+20	6.665D+02	-1.011	-23.8	-2.458D-04	4.028D-05	2.234	1.1601D-02	3.1765D-02	4.3366D-02	0.975
1	+0.00	1050	-2.076D+20	7.633D+02	-1.010	-23.2	-2.339D-04	4.177D-05	2.243	1.3338D-02	3.1389D-02	4.4726D-02	0.981
1	+0.20	1050	-2.425D+20	8.697D+02	-1.009	-22.6	-2.224D-04	4.303D-05	2.258	1.5300D-02	3.1029D-02	4.6330D-02	0.975
1	+0.40	1050	-2.818D+20	9.856D+02	-1.009	-22.0	-2.110D-04	4.406D-05	2.278	1.7494D-02	3.0691D-02	4.8185D-02	0.960
1	+0.60	1050	-3.256D+20	1.111D+03	-1.008	-21.5	-2.009D-04	4.485D-05	2.301	1.9922D-02	3.0375D-02	5.0297D-02	0.936
1	+0.80	1050	-3.742D+20	1.246D+03	-1.007	-20.9	-1.909D-04	4.540D-05	2.327	2.2582D-02	3.0085D-02	5.2668D-02	0.905
1	+1.00	1050	-4.275D+20	1.389D+03	-1.006	-20.4	-1.814D-04	4.572D-05	2.354	2.5476D-02	2.9821D-02	5.5298D-02	0.868
1	+1.20	1050	-4.857D+20	1.540D+03	-1.006	-19.9	-1.725D-04	4.583D-05	2.382	2.8592D-02	2.9584D-02	5.8176D-02	0.827
1	+1.40	1050	-5.487D+20	1.700D+03	-1.005	-19.4	-1.641D-04	4.574D-05	2.411	3.1928D-02	2.9372D-02	6.1300D-02	0.784
1	+1.60	1050	-6.165D+20	1.866D+03	-1.005	-19.0	-1.561D-04	4.548D-05	2.440	3.5476D-02	2.9184D-02	6.4660D-02	0.739
1	+1.80	1050	-6.890D+20	2.039D+03	-1.004	-18.5	-1.487D-04	4.507D-05	2.469	3.9224D-02	2.9019D-02	6.8244D-02	0.693
1	+2.00	1050	-7.662D+20	2.217D+03	-1.004	-18.1	-1.417D-04	4.453D-05	2.499	4.3168D-02	2.8876D-02	7.2044D-02	0.649
1	+2.20	1050	-8.479D+20	2.401D+03	-1.004	-17.7	-1.352D-04	4.389D-05	2.528	4.7291D-02	2.8752D-02	7.6042D-02	0.606
1	+2.40	1050	-9.340D+20	2.590D+03	-1.003	-17.4	-1.291D-04	4.315D-05	2.556	5.1584D-02	2.8644D-02	8.0228D-02	0.565
1	+2.60	1050	-1.024D+21	2.784D+03	-1.003	-17.0	-1.234D-04	4.235D-05	2.584	5.6036D-02	2.8552D-02	8.4588D-02	0.526
1	+2.80	1050	-1.119D+21	2.981D+03	-1.003	-16.7	-1.180D-04	4.151D-05	2.611	6.0637D-02	2.8473D-02	8.9111D-02	0.489
1	+3.00	1050	-1.218D+21	3.181D+03	-1.002	-16.3	-1.130D-04	4.062D-05	2.637	6.5378D-02	2.8406D-02	9.3784D-02	0.455
1	+3.20	1050	-1.320D+21	3.385D+03	-1.002	-16.0	-1.083D-04	3.971D-05	2.663	7.0235D-02	2.8349D-02	9.8584D-02	0.423
1	+3.40	1050	-1.426D+21	3.592D+03	-1.002	-15.8	-1.039D-04	3.879D-05	2.688	7.5236D-02	2.8301D-02	1.0354D-01	0.393
1	+3.60	1050	-1.536D+21	3.802D+03	-1.002	-15.5	-9.978D-05	3.785D-05	2.713	8.0366D-02	2.8260D-02	1.0863D-01	0.366
1	+3.80	1050	-1.650D+21	4.013D+03	-1.002	-15.2	-9.593D-05	3.693D-05	2.735	8.5541D-02	2.8225D-02	1.1377D-01	0.341
1	+4.00	1050	-1.767D+21	4.227D+03	-1.002	-15.0	-9.230D-05	3.602D-05	2.758	9.0839D-02	2.8196D-02	1.1903D-01	0.318
1	+4.20	1050	-1.887D+21	4.443D+03	-1.001	-14.7	-8.890D-05	3.511D-05	2.779	9.6226D-02	2.8171D-02	1.2440D-01	0.296
1	+4.40	1050	-2.011D+21	4.661D+03	-1.001	-14.5	-8.569D-05	3.423D-05	2.800	1.0169D-01	2.8150D-02	1.2984D-01	0.277
1	+4.60	1050	-2.137D+21	4.880D+03	-1.001	-14.3	-8.267D-05	3.336D-05	2.820	1.0724D-01	2.8132D-02	1.3537D-01	0.259
1	+4.80	1050	-2.267D+21	5.101D+03	-1.001	-14.1	-7.983D-05	3.251D-05	2.839	1.1285D-01	2.8117D-02	1.4096D-01	0.242
1	+5.00	1050	-2.400D+21	5.324D+03	-1.001	-13.9	-7.715D-05	3.169D-05	2.857	1.1852D-01	2.8104D-02	1.4663D-01	0.227
1	+5.20	1050	-2.535D+21	5.547D+03	-1.001	-13.7	-7.462D-05	3.089D-05	2.875	1.2426D-01	2.8093D-02	1.5235D-01	0.213
1	+5.40	1050	-2.674D+21	5.772D+03	-1.001	-13.5	-7.222D-05	3.011D-05	2.892	1.3004D-01	2.8084D-02	1.5813D-01	0.200
1	+5.60	1050	-2.815D+21	5.998D+03	-1.001	-13.3	-6.995D-05	2.935D-05	2.909	1.3596D-01	2.8076D-02	1.6403D-01	0.188
1	+5.80	1050	-2.959D+21	6.225D+03	-1.001	-13.1	-6.782D-05	2.863D-05	2.923	1.4177D-01	2.8069D-02	1.6984D-01	0.177
1	+6.00	1050	-3.106D+21	6.453D+03	-1.001	-13.0	-6.579D-05	2.793D-05	2.937	1.4769D-01	2.8064D-02	1.7576D-01	0.167
1	+6.20	1050	-3.255D+21	6.682D+03	-1.001	-12.8	-6.386D-05	2.725D-05	2.951	1.5366D-01	2.8059D-02	1.8171D-01	0.157
1	+6.40	1050	-3.407D+21	6.912D+03	-1.001	-12.7	-6.204D-05	2.660D-05	2.965	1.5966D-01	2.8055D-02	1.8771D-01	0.149
1	+6.60	1050	-3.561D+21	7.143D+03	-1.001	-12.5	-6.030D-05	2.597D-05	2.977	1.6569D-01	2.8051D-02	1.9374D-01	0.141
1	+6.80	1050	-3.718D+21	7.374D+03	-1.001	-12.4	-5.865D-05	2.536D-05	2.989	1.7175D-01	2.8048D-02	1.9980D-01	0.133
1	+7.00	1050	-3.878D+21	7.606D+03	-1.000	-12.3	-5.707D-05	2.478D-05	3.001	1.7784D-01	2.8045D-02	2.0589D-01	0.126
1	+7.20	1050	-4.039D+21	7.839D+03	-1.000	-12.1	-5.557D-05	2.421D-05	3.012	1.8396D-01	2.8043D-02	2.1200D-01	0.120
1	+7.40	1050	-4.203D+21	8.073D+03	-1.000	-12.0	-5.415D-05	2.367D-05	3.022	1.9010D-01	2.8041D-02	2.1814D-01	0.114
1	+7.60	1050	-4.370D+21	8.307D+03	-1.000	-11.9	-5.278D-05	2.314D-05	3.032	1.9626D-01	2.8039D-02	2.2430D-01	0.108
1	+7.80	1050	-4.538D+21	8.542D+03	-1.000	-11.8	-5.148D-05	2.264D-05	3.042	2.0244D-01	2.8037D-02	2.3048D-01	0.103
1	+8.00	1050	-4.709D+21	8.777D+03	-1.000	-11.6	-5.024D-05	2.216D-05	3.049	2.0855D-01	2.8036D-02	2.3658D-01	0.098

X	Eg		Atomic-Spacing		Debye Sound-Velocity		Num-Density		Mass-Density					
	mc+	mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-		
1	0.250	0.6915	5.4876D-08	535.6	4.934D+05	4.841D+22	4.841D+22	3.152D+00						
1.399D+00	1.40D+00	2.938D+00	2.94D+00	2.74D+01	0.000D+00	0.000D+00	0.000D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00			
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT	
1	-5.00	1300	+1.021D+20	3.455D+02	+0.948	+20.0	+2.875D-04	2.856D-05	4.430	1.4766D-02	3.3207D-02	4.7973D-02	0.774	
1	-4.80	1300	+8.402D+19	2.968D+02	+0.912	+20.1	+2.924D-04	2.538D-05	5.503	1.5758D-02	3.3172D-02	4.8929D-02	0.674	
1	-4.60	1300	+6.855D+19	2.555D+02	+0.860	+20.0	+2.933D-04	2.198D-05	7.028	1.7326D-02	3.3131D-02	5.0456D-02	0.566	
1	-4.40	1300	+5.532D+19	2.211D+02	+0.786	+19.6	+2.884D-04	1.839D-05	9.133	1.9478D-02	3.3078D-02	5.2556D-02	0.455	
1	-4.20	1300	+4.394D+19	1.929D+02	+0.684	+18.8	+2.756D-04	1.465D-05	X11.921	2.2184D-02	3.3023D-02	5.5207D-02	0.345	
1	-4.00	1300	+3.407D+19	1.706D+02	+0.554	+17.3	+2.526D-04	1.088D-05	X15.399	2.5340D-02	3.2960D-02	5.8300D-02	0.243	
1	-3.80	1300	+2.539D+19	1.538D+02	+0.400	+15.1	+2.172D-04	7.257D-06	X19.378	2.8747D-02	3.2890D-02	6.1637D-02	0.153	
1	-3.60	1300	+1.762D+19	1.423D+02	+0.239	+12.1	+1.686D-04	4.048D-06	X23.372	3.2088D-02	3.2805D-02	6.4893D-02	0.081	
1	-3.40	1300	+1.048D+19	1.362D+02	+0.099	+8.0	+1.080D-04	1.590D-06	X26.609	3.4971D-02	3.2708D-02	6.7679D-02	0.031	
1	-3.20	1300	+3.729D+18	1.360D+02	+0.014	+3.1	+3.950D-05	2.122D-07	X28.226	3.7039D-02	3.2597D-02	6.9636D-02	0.004	
1	-3.00	1300	-2.891D+18	1.365D+02	-0.008	-2.5	-3.061D-05	1.279D-07	X28.277	3.7233D-02	3.2472D-02	6.9705D-02	0.002	
1	-2.80	1300	-9.616D+18	1.359D+02	-0.085	-7.5	-9.970D-05	1.350D-06	X26.919	3.5282D-02	3.2330D-02	6.7613D-02	0.026	
1	-2.60	1300	-1.669D+19	1.413D+02	-0.219	-11.6	-1.616D-04	3.689D-06	X23.841	3.2486D-02	3.2171D-02	6.4657D-02	0.074	
1	-2.40	1300	-2.437D+19	1.520D+02	-0.380	-14.8	-2.118D-04	6.822D-06	X19.895	2.9180D-02	3.1994D-02	6.1174D-02	0.145	
1	-2.20	1300	-3.291D+19	1.682D+02	-0.536	-17.1	-2.488D-04	1.041D-05	X15.880	2.5762D-02	3.1798D-02	5.7560D-02	0.235	
1	-2.00	1300	-4.261D+19	1.898D+02	-0.669	-18.6	-2.733D-04	1.417D-05	X12.323	2.2560D-02	3.1582D-02	5.4142D-02	0.340	
1	-1.80	1300	-5.379D+19	2.172D+02	-0.774	-19.5	-2.873D-04	1.792D-05	9.446	1.9790D-02	3.1347D-02	5.1137D-02	0.456	
1	-1.60	1300	-6.677D+19	2.508D+02	-0.852	-20.0	-2.930D-04	2.153D-05	7.259	1.7565D-02	3.1094D-02	4.8659D-02	0.575	
1	-1.40	1300	-8.193D+19	2.912D+02	-0.907	-20.1	-2.927D-04	2.496D-05	5.668	1.5923D-02	3.0824D-02	4.6747D-02	0.694	
1	-1.20	1300	-9.967D+19	3.390D+02	-0.944	-20.0	-2.883D-04	2.817D-05	4.544	1.4860D-02	3.0539D-02	4.5399D-02	0.807	
1	-1.00	1300	-1.204D+20	3.947D+02	-0.969	-19.8	-2.809D-04	3.115D-05	3.769	1.4350D-02	3.0243D-02	4.4593D-02	0.908	
1	-0.80	1300	-1.446D+20	4.589D+02	-0.985	-19.5	-2.717D-04	3.389D-05	3.243	1.4359D-02	2.9938D-02	4.4298D-02	0.994	
1	-0.60	1300	-1.728D+20	5.324D+02	-0.995	-19.1	-2.614D-04	3.638D-05	2.893	1.4858D-02	2.9629D-02	4.4487D-02	1.063	
1	-0.40	1300	-2.053D+20	6.155D+02	-1.001	-18.7	-2.505D-04	3.863D-05	2.664	1.5816D-02	2.9320D-02	4.5136D-02	1.113	
1	-0.20	1300	-2.426D+20	7.088D+02	-1.005	-18.3	-2.393D-04	4.060D-05	2.517	1.7212D-02	2.9015D-02	4.6227D-02	1.142	
1	+0.00	1300	-2.852D+20	8.125D+02	-1.007	-17.9	-2.282D-04	4.231D-05	2.428	1.9028D-02	2.8718D-02	4.7746D-02	1.152	
1	+0.20	1300	-3.335D+20	9.268D+02	-1.008	-17.5	-2.172D-04	4.373D-05	2.376	2.1246D-02	2.8434D-02	4.9680D-02	1.144	
1	+0.40	1300	-3.877D+20	1.052D+03	-1.008	-17.1	-2.065D-04	4.486D-05	2.351	2.3853D-02	2.8166D-02	5.2019D-02	1.121	
1	+0.60	1300	-4.482D+20	1.187D+03	-1.008	-16.7	-1.963D-04	4.572D-05	2.344	2.6838D-02	2.7915D-02	5.4753D-02	1.085	
1	+0.80	1300	-5.152D+20	1.332D+03	-1.008	-16.3	-1.864D-04	4.630D-05	2.349	3.0186D-02	2.7684D-02	5.7871D-02	1.040	
1	+1.00	1300	-5.887D+20	1.487D+03	-1.007	-15.9	-1.771D-04	4.663D-05	2.363	3.3889D-02	2.7474D-02	6.1363D-02	0.988	
1	+1.20	1300	-6.689D+20	1.651D+03	-1.007	-15.5	-1.682D-04	4.672D-05	2.381	3.7922D-02	2.7284D-02	6.5206D-02	0.931	
1	+1.40	1300	-7.557D+20	1.823D+03	-1.006	-15.2	-1.599D-04	4.660D-05	2.404	4.2275D-02	2.7115D-02	6.9390D-02	0.873	
1	+1.60	1300	-8.491D+20	2.003D+03	-1.006	-14.8	-1.520D-04	4.629D-05	2.429	4.6935D-02	2.6966D-02	7.3901D-02	0.814	
1	+1.80	1300	-9.491D+20	2.190D+03	-1.005	-14.5	-1.446D-04	4.582D-05	2.456	5.1883D-02	2.6835D-02	7.8718D-02	0.757	
1	+2.00	1300	-1.055D+21	2.383D+03	-1.005	-14.2	-1.377D-04	4.522D-05	2.484	5.7102D-02	2.6721D-02	8.3823D-02	0.701	
1	+2.20	1300	-1.168D+21	2.583D+03	-1.005	-13.9	-1.313D-04	4.450D-05	2.512	6.2575D-02	2.6622D-02	8.9198D-02	0.649	
1	+2.40	1300	-1.287D+21	2.787D+03	-1.004	-13.6	-1.252D-04	4.370D-05	2.540	6.8287D-02	2.6538D-02	9.4824D-02	0.599	
1	+2.60	1300	-1.411D+21	2.996D+03	-1.004	-13.3	-1.196D-04	4.283D-05	2.568	7.4220D-02	2.6465D-02	1.0069D-01	0.553	
1	+2.80	1300	-1.542D+21	3.210D+03	-1.003	-13.0	-1.143D-04	4.190D-05	2.595	8.0359D-02	2.6403D-02	1.0676D-01	0.510	
1	+3.00	1300	-1.677D+21	3.427D+03	-1.003	-12.8	-1.093D-04	4.094D-05	2.623	8.6690D-02	2.6350D-02	1.1304D-01	0.471	
1	+3.20	1300	-1.819D+21	3.647D+03	-1.003	-12.6	-1.047D-04	3.996D-05	2.649	9.3185D-02	2.6305D-02	1.1949D-01	0.435	
1	+3.40	1300	-1.965D+21	3.871D+03	-1.003	-12.3	-1.003D-04	3.897D-05	2.675	9.9867D-02	2.6267D-02	1.2613D-01	0.402	
1	+3.60	1300	-2.117D+21	4.097D+03	-1.003	-12.1	-9.628D-05	3.797D-05	2.700	1.0672D-01	2.6235D-02	1.3295D-01	0.371	
1	+3.80	1300	-2.273D+21	4.325D+03	-1.002	-11.9	-9.248D-05	3.699D-05	2.724	1.1365D-01	2.6208D-02	1.3986D-01	0.344	
1	+4.00	1300	-2.434D+21	4.556D+03	-1.002	-11.7	-8.891D-05	3.602D-05	2.747	1.2074D-01	2.6186D-02	1.4692D-01	0.319	
1	+4.20	1300	-2.600D+21	4.789D+03	-1.002	-11.5	-8.556D-05	3.506D-05	2.770	1.2794D-01	2.6166D-02	1.5411D-01	0.296	
1	+4.40	1300	-2.770D+21	5.023D+03	-1.002	-11.3	-8.242D-05	3.412D-05	2.791	1.3525D-01	2.6150D-02	1.6140D-01	0.275	
1	+4.60	1300	-2.944D+21	5.260D+03	-1.002	-11.2	-7.946D-05	3.321D-05	2.812	1.4266D-01	2.6137D-02	1.6880D-01	0.256	
1	+4.80	1300	-3.123D+21	5.497D+03	-1.002	-11.0	-7.667D-05	3.232D-05	2.832	1.5016D-01	2.6125D-02	1.7629D-01	0.238	
1	+5.00	1300	-3.306D+21	5.736D+03	-1.002	-10.8	-7.405D-05	3.145D-05	2.851	1.5775D-01	2.6115D-02	1.8386D-01	0.222	
1	+5.20	1300	-3.493D+21	5.977D+03	-1.001	-10.7	-7.157D-05	3.061D-05	2.869	1.6540D-01	2.6107D-02	1.9151D-01	0.208	
1	+5.40	1300	-3.684D+21	6.218D+03	-1.001	-10.6	-6.923D-05	2.980D-05	2.886	1.7313D-01	2.6100D-02	1.9923D-01	0.194	
1	+5.60	1300	-3.878D+21	6.461D+03	-1.001	-10.4	-6.701D-05	2.901D-05	2.905	1.8106D-01	2.6094D-02	2.0715D-01	0.182	
1	+5.80	1300	-4.077D+21	6.704D+03	-1.001	-10.3	-6.494D-05	2.827D-05	2.919	1.8877D-01	2.6089D-02	2.1485D-01	0.171	
1	+6.00	1300	-4.279D+21	6.949D+03	-1.001	-10.1	-6.296D-05	2.754D-05	2.934	1.9666D-01	2.6085D-02	2.2275D-01	0.161	
1	+6.20	1300	-4.484D+21	7.194D+03	-1.001	-10.0	-6.108D-05	2.684D-05	2.948	2.0461D-01	2.6081D-02	2.3069D-01	0.151	
1	+6.40	1300	-4.694D+21	7.440D+03	-1.001	-9.9	-5.931D-05	2.617D-05	2.962	2.1260D-01	2.6078D-02	2.3868D-01	0.143	
1	+6.60	1300	-4.906D+21	7.687D+03	-1.001	-9.8	-5.762D-05	2.552D-05	2.975	2.2063D-01	2.6076D-02	2.4670D-01	0.134	
1	+6.80	1300	-5.122D+21	7.935D+03	-1.001	-9.7	-5.602D-05	2.490D-05	2.988	2.2869D-01	2.6073D-02	2.5476D-01	0.127	
1	+7.00	1300	-5.342D+21	8.183D+03	-1.001	-9.6	-5.449D-05	2.430D-05	3.000	2.3679D-01	2.6071D-02	2.6286D-01	0.120	
1	+7.20	1300	-5.565D+21	8.432D+03	-1.001	-9.5	-5.304D-05	2.372D-05	3.011	2.4491D-01	2.6070D-02	2.7098D-01	0.114	
1	+7.40	1300	-5.791D+21	8.681D+03	-1.001	-9.4	-5.165D-05	2.316D-05	3.022	2.5307D-01	2.6068D-02	2.7913D-01	0.108	
1	+7.60	1300	-6.020D+21	8.931D+03	-1.001	-9.3	-5.033D-05	2.263D-05	3.032	2.6124D-01	2.6067D-02	2.8731D-01	0.102	
1	+7.80	1300	-6.252D+21	9.182D+03	-1.001	-9.2	-4.908D-05	2.211D-05	3.042	2.6948D-01	2.6066D-02	2.9555D-01	0.097	
1	+8.00	1300	-6.487D+21	9.433D+03	-1.001	-9.1	-4.787D-05	2.162D-05	3.051	2.7766D-01	2.6065D-02	3.0373D-01	0.093	

X		Eg	Atomic-Spacing		Debye Sound-Velocity		Num-Density	Mass-Density						
		eV	cm	K	cm/s	cm-3	g-cm-3							
1 0.300		0.9381	5.4990D-08	519.0	4.791D+05	4.811D+22	3.311D+00							
mc+		mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-		
1.399D+00		1.40D+00	2.938D+00	2.94D+00	2.740D+01	2.74D+01	0.000D+00	0.000D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00		
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT	
1	-5.00	300	-2.786D+17	8.943D+00	-1.048	-210.1	-6.193D-04	3.430D-06	1.986	3.9541D-05	6.8635D-02	6.8674D-02	0.015	
1	-4.80	300	-3.400D+17	1.073D+01	-1.044	-205.5	-6.037D-04	3.910D-06	1.990	4.7523D-05	6.8293D-02	6.8340D-02	0.017	
1	-4.60	300	-4.151D+17	1.285D+01	-1.039	-200.8	-5.882D-04	4.466D-06	1.994	5.7045D-05	6.7904D-02	6.7961D-02	0.020	
1	-4.40	300	-5.066D+17	1.536D+01	-1.035	-196.0	-5.728D-04	5.041D-06	2.000	6.8389D-05	6.7464D-02	6.7532D-02	0.022	
1	-4.20	300	-6.181D+17	1.833D+01	-1.032	-191.0	-5.576D-04	5.699D-06	2.006	8.1877D-05	6.6970D-02	6.7052D-02	0.025	
1	-4.00	300	-7.541D+17	2.183D+01	-1.028	-185.9	-5.424D-04	6.424D-06	2.014	9.7888D-05	6.6415D-02	6.6512D-02	0.029	
1	-3.80	300	-9.198D+17	2.595D+01	-1.026	-180.6	-5.274D-04	7.217D-06	2.023	1.1685D-04	6.5796D-02	6.5913D-02	0.033	
1	-3.60	300	-1.121D+18	3.077D+01	-1.024	-175.3	-5.125D-04	8.082D-06	2.034	1.3929D-04	6.5111D-02	6.5250D-02	0.037	
1	-3.40	300	-1.367D+18	3.640D+01	-1.022	-169.9	-4.977D-04	9.018D-06	2.046	1.6578D-04	6.4358D-02	6.4523D-02	0.042	
1	-3.20	300	-1.665D+18	4.297D+01	-1.021	-164.4	-4.830D-04	1.003D-05	2.059	1.9699D-04	6.3534D-02	6.3731D-02	0.047	
1	-3.00	300	-2.028D+18	5.060D+01	-1.020	-158.9	-4.685D-04	1.110D-05	2.075	2.3370D-04	6.2641D-02	6.2874D-02	0.053	
1	-2.80	300	-2.467D+18	5.944D+01	-1.020	-153.4	-4.540D-04	1.225D-05	2.092	2.7679D-04	6.1679D-02	6.1955D-02	0.059	
1	-2.60	300	-3.000D+18	6.964D+01	-1.021	-147.9	-4.396D-04	1.346D-05	2.111	3.2725D-04	6.0651D-02	6.0979D-02	0.066	
1	-2.40	300	-3.644D+18	8.140D+01	-1.022	-142.4	-4.253D-04	1.473D-05	2.131	3.8621D-04	5.9564D-02	5.9950D-02	0.074	
1	-2.20	300	-4.422D+18	9.489D+01	-1.023	-137.0	-4.112D-04	1.604D-05	2.154	4.5497D-04	5.8423D-02	5.8878D-02	0.082	
1	-2.00	300	-5.358D+18	1.103D+02	-1.024	-131.7	-3.971D-04	1.739D-05	2.178	5.3490D-04	5.7236D-02	5.7771D-02	0.090	
1	-1.80	300	-6.482D+18	1.280D+02	-1.026	-126.4	-3.831D-04	1.878D-05	2.204	6.2768D-04	5.6014D-02	5.6641D-02	0.099	
1	-1.60	300	-7.827D+18	1.480D+02	-1.028	-121.3	-3.692D-04	2.017D-05	2.231	7.3495D-04	5.4767D-02	5.5502D-02	0.109	
1	-1.40	300	-9.431D+18	1.707D+02	-1.030	-116.3	-3.554D-04	2.156D-05	2.259	8.5860D-04	5.3507D-02	5.4366D-02	0.119	
1	-1.20	300	-1.133D+19	1.964D+02	-1.031	-111.5	-3.417D-04	2.293D-05	2.289	1.0006D-03	5.2248D-02	5.3248D-02	0.129	
1	-1.00	300	-1.358D+19	2.252D+02	-1.033	-106.9	-3.282D-04	2.426D-05	2.320	1.1631D-03	5.1003D-02	5.2166D-02	0.139	
1	-0.80	300	-1.622D+19	2.575D+02	-1.034	-102.5	-3.148D-04	2.553D-05	2.351	1.3481D-03	4.9778D-02	5.1126D-02	0.150	
1	-0.60	300	-1.931D+19	2.936D+02	-1.035	-98.3	-3.017D-04	2.672D-05	2.383	1.5576D-03	4.8589D-02	5.0146D-02	0.160	
1	-0.40	300	-2.288D+19	3.335D+02	-1.036	-94.3	-2.888D-04	2.782D-05	2.416	1.7938D-03	4.7444D-02	4.9238D-02	0.170	
1	-0.20	300	-2.700D+19	3.776D+02	-1.036	-90.5	-2.762D-04	2.881D-05	2.448	2.0577D-03	4.6352D-02	4.8410D-02	0.179	
1	+0.00	300	-3.171D+19	4.258D+02	-1.036	-86.9	-2.640D-04	2.967D-05	2.480	2.3509D-03	4.5320D-02	4.7671D-02	0.187	
1	+0.20	300	-3.704D+19	4.783D+02	-1.036	-83.5	-2.521D-04	3.040D-05	2.512	2.6743D-03	4.4352D-02	4.7026D-02	0.194	
1	+0.40	300	-4.304D+19	5.350D+02	-1.036	-80.4	-2.407D-04	3.099D-05	2.542	3.0281D-03	4.3451D-02	4.6479D-02	0.200	
1	+0.60	300	-4.974D+19	5.959D+02	-1.035	-77.4	-2.297D-04	3.144D-05	2.572	3.4123D-03	4.2620D-02	4.6032D-02	0.205	
1	+0.80	300	-5.715D+19	6.607D+02	-1.034	-74.6	-2.192D-04	3.174D-05	2.602	3.8264D-03	4.1857D-02	4.5683D-02	0.208	
1	+1.00	300	-6.529D+19	7.293D+02	-1.033	-72.0	-2.092D-04	3.192D-05	2.630	4.2697D-03	4.1162D-02	4.5432D-02	0.211	
1	+1.20	300	-7.417D+19	8.014D+02	-1.032	-69.6	-1.997D-04	3.197D-05	2.657	4.7407D-03	4.0533D-02	4.5273D-02	0.212	
1	+1.40	300	-8.380D+19	8.768D+02	-1.031	-67.3	-1.908D-04	3.191D-05	2.683	5.2378D-03	3.9966D-02	4.5203D-02	0.212	
1	+1.60	300	-9.415D+19	9.552D+02	-1.030	-65.2	-1.823D-04	3.174D-05	2.709	5.7603D-03	3.9458D-02	4.5218D-02	0.211	
1	+1.80	300	-1.052D+20	1.036D+03	-1.029	-63.3	-1.743D-04	3.150D-05	2.733	6.3057D-03	3.9004D-02	4.5310D-02	0.209	
1	+2.00	300	-1.170D+20	1.120D+03	-1.028	-61.4	-1.668D-04	3.118D-05	2.756	6.8727D-03	3.8601D-02	4.5474D-02	0.206	
1	+2.20	300	-1.295D+20	1.206D+03	-1.027	-59.7	-1.598D-04	3.080D-05	2.779	7.4599D-03	3.8245D-02	4.5704D-02	0.202	
1	+2.40	300	-1.426D+20	1.294D+03	-1.026	-58.1	-1.532D-04	3.037D-05	2.800	8.0658D-03	3.7930D-02	4.5995D-02	0.198	
1	+2.60	300	-1.565D+20	1.384D+03	-1.025	-56.6	-1.470D-04	2.991D-05	2.820	8.6890D-03	3.7652D-02	4.6341D-02	0.194	
1	+2.80	300	-1.709D+20	1.476D+03	-1.024	-55.2	-1.412D-04	2.942D-05	2.840	9.3284D-03	3.7409D-02	4.6737D-02	0.189	
1	+3.00	300	-1.860D+20	1.569D+03	-1.023	-53.9	-1.357D-04	2.891D-05	2.858	9.9810D-03	3.7195D-02	4.7176D-02	0.184	
1	+3.20	300	-2.016D+20	1.664D+03	-1.022	-52.6	-1.306D-04	2.838D-05	2.876	1.0651D-02	3.7008D-02	4.7659D-02	0.179	
1	+3.40	300	-2.179D+20	1.760D+03	-1.021	-51.5	-1.258D-04	2.784D-05	2.894	1.1337D-02	3.6845D-02	4.8181D-02	0.173	
1	+3.60	300	-2.346D+20	1.857D+03	-1.020	-50.4	-1.213D-04	2.731D-05	2.909	1.2027D-02	3.6702D-02	4.8729D-02	0.168	
1	+3.80	300	-2.520D+20	1.956D+03	-1.019	-49.4	-1.170D-04	2.678D-05	2.924	1.2730D-02	3.6577D-02	4.9307D-02	0.163	
1	+4.00	300	-2.698D+20	2.056D+03	-1.018	-48.4	-1.130D-04	2.624D-05	2.939	1.3450D-02	3.6468D-02	4.9917D-02	0.158	
1	+4.20	300	-2.882D+20	2.157D+03	-1.018	-47.5	-1.092D-04	2.571D-05	2.953	1.4177D-02	3.6372D-02	5.0549D-02	0.153	
1	+4.40	300	-3.071D+20	2.259D+03	-1.017	-46.7	-1.056D-04	2.520D-05	2.966	1.4913D-02	3.6289D-02	5.1202D-02	0.148	
1	+4.60	300	-3.264D+20	2.362D+03	-1.016	-45.9	-1.022D-04	2.469D-05	2.979	1.5660D-02	3.6216D-02	5.1876D-02	0.143	
1	+4.80	300	-3.462D+20	2.465D+03	-1.016	-45.1	-9.905D-05	2.419D-05	2.991	1.6415D-02	3.6152D-02	5.2567D-02	0.138	
1	+5.00	300	-3.665D+20	2.570D+03	-1.015	-44.4	-9.603D-05	2.370D-05	3.002	1.7178D-02	3.6096D-02	5.3274D-02	0.133	
1	+5.20	300	-3.872D+20	2.676D+03	-1.014	-43.8	-9.317D-05	2.323D-05	3.013	1.7950D-02	3.6047D-02	5.3996D-02	0.129	
1	+5.40	300	-4.084D+20	2.782D+03	-1.014	-43.1	-9.046D-05	2.277D-05	3.024	1.8729D-02	3.6004D-02	5.4732D-02	0.125	
1	+5.60	300	-4.299D+20	2.890D+03	-1.013	-42.5	-8.788D-05	2.232D-05	3.034	1.9515D-02	3.5966D-02	5.5481D-02	0.121	
1	+5.80	300	-4.519D+20	2.998D+03	-1.013	-41.9	-8.544D-05	2.188D-05	3.043	2.0309D-02	3.5932D-02	5.6241D-02	0.117	
1	+6.00	300	-4.743D+20	3.107D+03	-1.012	-41.4	-8.311D-05	2.146D-05	3.052	2.1109D-02	3.5902D-02	5.7011D-02	0.113	
1	+6.20	300	-4.971D+20	3.216D+03	-1.012	-40.9	-8.090D-05	2.105D-05	3.061	2.1915D-02	3.5876D-02	5.7791D-02	0.109	
1	+6.40	300	-5.203D+20	3.327D+03	-1.011	-40.4	-7.879D-05	2.065D-05	3.069	2.2728D-02	3.5852D-02	5.8580D-02	0.106	
1	+6.60	300	-5.439D+20	3.438D+03	-1.011	-39.9	-7.678D-05	2.027D-05	3.077	2.3547D-02	3.5832D-02	5.9378D-02	0.102	
1	+6.80	300	-5.679D+20	3.550D+03	-1.010	-39.4	-7.486D-05	1.989D-05	3.084	2.4371D-02	3.5813D-02	6.0184D-02	0.099	
1	+7.00	300	-5.922D+20	3.662D+03	-1.010	-39.0	-7.303D-05	1.953D-05	3.091	2.5201D-02	3.5796D-02	6.0997D-02	0.096	
1	+7.20	300	-6.169D+20	3.775D+03	-1.009	-38.6	-7.128D-05	1.918D-05	3.098	2.6036D-02	3.5781D-02	6.1817D-02	0.093	
1	+7.40	300	-6.419D+20	3.889D+03	-1.009	-38.2	-6.960D-05	1.884D-05	3.105	2.6876D-02	3.5768D-02	6.2644D-02	0.090	
1	+7.60	300	-6.673D+20	4.003D+03	-1.009	-37.8	-6.800D-05	1.851D-05	3.111	2.7721D-02	3.5755D-02	6.3477D-02	0.087	
1	+7.80	300	-6.931D+20	4.118D+03	-1.008	-37.4	-6.646D-05	1.819D-05	3.117	2.8571D-02	3.5744D-02	6.4315D-02	0.085	
1	+8.00	300	-7.192D+20	4.233D+03	-1.008	-37.0	-6.499D-05	1.788D-05	3.123	2.9425D-02	3.5734D-02	6.5160D-02	0.082	

x	Eg eV	Atomic-Spacing cm	Debye K	Sound-Velocity cm/s	Num-Density cm ⁻³	Mass-Density g-cm ⁻³								
1	0.300	0.8701	5.4990D-08	519.0	4.791D+05	4.811D+22	3.311D+00							
	mc+	mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-	beta+	beta-
	1.399D+00	1.40D+00	2.938D+00	2.94D+00	2.740D+01	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00	2.00D+00	2.00D+00
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT	
1	-5.00	550	-6.913D+17	9.574D+00	-1.075	-92.9	-6.122D-04	3.589D-06	2.092	8.1754D-05	5.0703D-02	5.0785D-02	0.039	
1	-4.80	550	-8.440D+17	1.157D+01	-1.070	-91.5	-5.962D-04	4.112D-06	2.055	9.7039D-05	5.0569D-02	5.0666D-02	0.045	
1	-4.60	550	-1.030D+18	1.396D+01	-1.065	-90.1	-5.803D-04	4.700D-06	2.032	1.1575D-04	5.0414D-02	5.0530D-02	0.051	
1	-4.40	550	-1.257D+18	1.682D+01	-1.060	-88.5	-5.644D-04	5.359D-06	2.017	1.3849D-04	5.0236D-02	5.0375D-02	0.059	
1	-4.20	550	-1.534D+18	2.025D+01	-1.055	-86.9	-5.485D-04	6.093D-06	2.008	1.6597D-04	5.0033D-02	5.0199D-02	0.067	
1	-4.00	550	-1.872D+18	2.434D+01	-1.050	-85.2	-5.328D-04	6.910D-06	2.004	1.9906D-04	4.9803D-02	5.0002D-02	0.076	
1	-3.80	550	-2.283D+18	2.921D+01	-1.045	-83.5	-5.172D-04	7.813D-06	2.003	2.3876D-04	4.9539D-02	4.9777D-02	0.086	
1	-3.60	550	-2.784D+18	3.499D+01	-1.041	-81.7	-5.017D-04	8.807D-06	2.005	2.8627D-04	4.9241D-02	4.9527D-02	0.098	
1	-3.40	550	-3.393D+18	4.184D+01	-1.037	-79.8	-4.863D-04	9.895D-06	2.008	3.4297D-04	4.8906D-02	4.9249D-02	0.111	
1	-3.20	550	-4.134D+18	4.995D+01	-1.033	-77.9	-4.710D-04	1.108D-05	2.014	4.1053D-04	4.8532D-02	4.8942D-02	0.125	
1	-3.00	550	-5.034D+18	5.950D+01	-1.030	-76.0	-4.558D-04	1.236D-05	2.021	4.9080D-04	4.8116D-02	4.8607D-02	0.140	
1	-2.80	550	-6.125D+18	7.073D+01	-1.027	-74.0	-4.408D-04	1.374D-05	2.030	5.8599D-04	4.7658D-02	4.8244D-02	0.157	
1	-2.60	550	-7.447D+18	8.388D+01	-1.024	-72.0	-4.259D-04	1.522D-05	2.040	6.9857D-04	4.7156D-02	4.7855D-02	0.175	
1	-2.40	550	-9.046D+18	9.926D+01	-1.022	-70.0	-4.111D-04	1.678D-05	2.053	8.3152D-04	4.6611D-02	4.7443D-02	0.194	
1	-2.20	550	-1.098D+19	1.172D+02	-1.020	-68.0	-3.965D-04	1.842D-05	2.066	9.8810D-04	4.6024D-02	4.7012D-02	0.215	
1	-2.00	550	-1.330D+19	1.380D+02	-1.018	-65.9	-3.820D-04	2.013D-05	2.082	1.1720D-03	4.5396D-02	4.6568D-02	0.238	
1	-1.80	550	-1.609D+19	1.620D+02	-1.017	-63.9	-3.677D-04	2.190D-05	2.099	1.3875D-03	4.4734D-02	4.6121D-02	0.261	
1	-1.60	550	-1.943D+19	1.897D+02	-1.016	-61.9	-3.535D-04	2.370D-05	2.117	1.6390D-03	4.4039D-02	4.5678D-02	0.285	
1	-1.40	550	-2.341D+19	2.214D+02	-1.016	-60.0	-3.395D-04	2.552D-05	2.137	1.9317D-03	4.3320D-02	4.5251D-02	0.310	
1	-1.20	550	-2.814D+19	2.577D+02	-1.015	-58.0	-3.257D-04	2.733D-05	2.159	2.2708D-03	4.2583D-02	4.4854D-02	0.335	
1	-1.00	550	-3.372D+19	2.989D+02	-1.015	-56.2	-3.121D-04	2.912D-05	2.182	2.6624D-03	4.1837D-02	4.4499D-02	0.360	
1	-0.80	550	-4.028D+19	3.455D+02	-1.014	-54.3	-2.987D-04	3.084D-05	2.207	3.1118D-03	4.1090D-02	4.4202D-02	0.384	
1	-0.60	550	-4.793D+19	3.979D+02	-1.014	-52.6	-2.857D-04	3.248D-05	2.232	3.6251D-03	4.0351D-02	4.3976D-02	0.406	
1	-0.40	550	-5.681D+19	4.564D+02	-1.014	-50.8	-2.729D-04	3.400D-05	2.259	4.2076D-03	3.9628D-02	4.3836D-02	0.427	
1	-0.20	550	-6.703D+19	5.212D+02	-1.014	-49.2	-2.606D-04	3.539D-05	2.287	4.8645D-03	3.8930D-02	4.3794D-02	0.444	
1	+0.00	550	-7.871D+19	5.927D+02	-1.014	-47.6	-2.485D-04	3.661D-05	2.315	5.5999D-03	3.8262D-02	4.3862D-02	0.459	
1	+0.20	550	-9.195D+19	6.708D+02	-1.013	-46.1	-2.370D-04	3.767D-05	2.344	6.4173D-03	3.7631D-02	4.4048D-02	0.470	
1	+0.40	550	-1.068D+20	7.556D+02	-1.013	-44.7	-2.258D-04	3.853D-05	2.373	7.3187D-03	3.7042D-02	4.4360D-02	0.478	
1	+0.60	550	-1.235D+20	8.469D+02	-1.013	-43.4	-2.152D-04	3.921D-05	2.403	8.3060D-03	3.6495D-02	4.4801D-02	0.481	
1	+0.80	550	-1.419D+20	9.446D+02	-1.012	-42.1	-2.050D-04	3.970D-05	2.432	9.3771D-03	3.5994D-02	4.5371D-02	0.481	
1	+1.00	550	-1.621D+20	1.048D+03	-1.012	-40.8	-1.954D-04	4.002D-05	2.462	1.0531D-02	3.5539D-02	4.6070D-02	0.478	
1	+1.20	550	-1.841D+20	1.158D+03	-1.011	-39.7	-1.862D-04	4.016D-05	2.491	1.1767D-02	3.5129D-02	4.6896D-02	0.471	
1	+1.40	550	-2.080D+20	1.272D+03	-1.011	-38.6	-1.776D-04	4.014D-05	2.519	1.3082D-02	3.4762D-02	4.7844D-02	0.461	
1	+1.60	550	-2.337D+20	1.392D+03	-1.011	-37.6	-1.695D-04	3.999D-05	2.547	1.4471D-02	3.4436D-02	4.8907D-02	0.450	
1	+1.80	550	-2.612D+20	1.516D+03	-1.010	-36.6	-1.619D-04	3.972D-05	2.575	1.5933D-02	3.4148D-02	5.0081D-02	0.436	
1	+2.00	550	-2.905D+20	1.644D+03	-1.010	-35.7	-1.547D-04	3.934D-05	2.602	1.7461D-02	3.3895D-02	5.1356D-02	0.421	
1	+2.20	550	-3.214D+20	1.776D+03	-1.009	-34.8	-1.479D-04	3.888D-05	2.628	1.9052D-02	3.3674D-02	5.2726D-02	0.406	
1	+2.40	550	-3.541D+20	1.912D+03	-1.009	-34.0	-1.416D-04	3.834D-05	2.654	2.0703D-02	3.3482D-02	5.4185D-02	0.389	
1	+2.60	550	-3.884D+20	2.050D+03	-1.009	-33.2	-1.357D-04	3.775D-05	2.678	2.2409D-02	3.3315D-02	5.5724D-02	0.373	
1	+2.80	550	-4.242D+20	2.191D+03	-1.008	-32.5	-1.301D-04	3.712D-05	2.702	2.4167D-02	3.3171D-02	5.7338D-02	0.356	
1	+3.00	550	-4.616D+20	2.335D+03	-1.008	-31.8	-1.249D-04	3.645D-05	2.725	2.5971D-02	3.3047D-02	5.9018D-02	0.340	
1	+3.20	550	-5.005D+20	2.481D+03	-1.008	-31.2	-1.200D-04	3.576D-05	2.747	2.7825D-02	3.2940D-02	6.0765D-02	0.324	
1	+3.40	550	-5.408D+20	2.630D+03	-1.007	-30.6	-1.155D-04	3.506D-05	2.769	2.9719D-02	3.2848D-02	6.2568D-02	0.308	
1	+3.60	550	-5.825D+20	2.780D+03	-1.007	-30.0	-1.111D-04	3.435D-05	2.789	3.1653D-02	3.2770D-02	6.4422D-02	0.293	
1	+3.80	550	-6.255D+20	2.933D+03	-1.007	-29.5	-1.071D-04	3.363D-05	2.809	3.3623D-02	3.2702D-02	6.6325D-02	0.279	
1	+4.00	550	-6.698D+20	3.087D+03	-1.006	-28.9	-1.033D-04	3.292D-05	2.828	3.5628D-02	3.2644D-02	6.8272D-02	0.265	
1	+4.20	550	-7.154D+20	3.243D+03	-1.006	-28.5	-9.967D-05	3.222D-05	2.846	3.7665D-02	3.2595D-02	7.0260D-02	0.252	
1	+4.40	550	-7.622D+20	3.400D+03	-1.006	-28.0	-9.628D-05	3.152D-05	2.863	3.9733D-02	3.2552D-02	7.2285D-02	0.240	
1	+4.60	550	-8.103D+20	3.559D+03	-1.005	-27.6	-9.309D-05	3.084D-05	2.880	4.1829D-02	3.2516D-02	7.4345D-02	0.228	
1	+4.80	550	-8.594D+20	3.719D+03	-1.005	-27.1	-9.006D-05	3.016D-05	2.896	4.3951D-02	3.2484D-02	7.6436D-02	0.217	
1	+5.00	550	-9.098D+20	3.880D+03	-1.005	-26.8	-8.721D-05	2.951D-05	2.911	4.6099D-02	3.2458D-02	7.8556D-02	0.207	
1	+5.20	550	-9.612D+20	4.043D+03	-1.005	-26.4	-8.450D-05	2.887D-05	2.925	4.8259D-02	3.2434D-02	8.0693D-02	0.197	
1	+5.40	550	-1.014D+21	4.206D+03	-1.004	-26.0	-8.194D-05	2.824D-05	2.940	5.0463D-02	3.2414D-02	8.2877D-02	0.187	
1	+5.60	550	-1.067D+21	4.371D+03	-1.004	-25.7	-7.952D-05	2.764D-05	2.953	5.2676D-02	3.2397D-02	8.5074D-02	0.179	
1	+5.80	550	-1.122D+21	4.537D+03	-1.004	-25.3	-7.723D-05	2.706D-05	2.964	5.4890D-02	3.2382D-02	8.7272D-02	0.171	
1	+6.00	550	-1.177D+21	4.704D+03	-1.004	-25.0	-7.502D-05	2.648D-05	2.978	5.7162D-02	3.2369D-02	8.9531D-02	0.163	
1	+6.20	550	-1.234D+21	4.872D+03	-1.004	-24.7	-7.294D-05	2.592D-05	2.989	5.9431D-02	3.2358D-02	9.1789D-02	0.155	
1	+6.40	550	-1.292D+21	5.040D+03	-1.003	-24.4	-7.096D-05	2.538D-05	3.000	6.1716D-02	3.2348D-02	9.4064D-02	0.148	
1	+6.60	550	-1.350D+21	5.210D+03	-1.003	-24.2	-6.908D-05	2.486D-05	3.011	6.4017D-02	3.2340D-02	9.6357D-02	0.142	
1	+6.80	550	-1.410D+21	5.380D+03	-1.003	-23.9	-6.728D-05	2.435D-05	3.021	6.6333D-02	3.2332D-02	9.8665D-02	0.136	
1	+7.00	550	-1.470D+21	5.552D+03	-1.003	-23.6	-6.556D-05	2.387D-05	3.030	6.8662D-02	3.2325D-02	1.0099D-01	0.130	
1	+7.20	550	-1.531D+21	5.724D+03	-1.003	-23.4	-6.393D-05	2.339D-05	3.040	7.1005D-02	3.2320D-02	1.0332D-01	0.125	
1	+7.40	550	-1.593D+21	5.897D+03	-1.003	-23.2	-6.236D-05	2.293D-05	3.048	7.3360D-02	3.2314D-02	1.0567D-01	0.119	
1	+7.60	550	-1.657D+21	6.070D+03	-1.003	-22.9	-6.087D-05	2.249D-05	3.057	7.5728D-02	3.2310D-02	1.0804D-01	0.114	
1	+7.80	550	-1.720D+21	6.244D+03	-1.002	-22.7	-5.943D-05	2.206D-05	3.065	7.8106D-02	3.2306D-02	1.1041D-01	0.110	
1	+8.00	550	-1.785D+21	6.419D+03	-1.002	-22.5	-5.806D-05	2.164D-05	3.072	8.0495D-02	3.2302D-02	1.1280D-01	0.106	

x	Eg eV	Atomic-Spacing cm	Debye K	Sound-Velocity cm/s	Num-Density cm ⁻³	Mass-Density g-cm ⁻³							
1.399D+00	1.40D+00	2.938D+00	2.94D+00	2.740D+01	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00		
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT
1	-5.00	800	-9.769D+17	1.182D+01	-0.505	-38.2	-3.893D-04	1.792D-06	%35.740	2.5087D-03	4.1610D-02	4.4119D-02	0.032
1	-4.80	800	-1.287D+18	1.353D+01	-0.653	-42.8	-4.376D-04	2.590D-06	%27.236	2.1876D-03	4.1537D-02	4.3724D-02	0.047
1	-4.60	800	-1.649D+18	1.573D+01	-0.771	-45.9	-4.688D-04	3.459D-06	%20.245	1.8910D-03	4.1451D-02	4.3342D-02	0.064
1	-4.40	800	-2.076D+18	1.851D+01	-0.860	-47.8	-4.866D-04	4.383D-06	%14.865	1.6332D-03	4.1353D-02	4.2986D-02	0.082
1	-4.20	800	-2.586D+18	2.194D+01	-0.923	-48.9	-4.943D-04	5.360D-06	%10.910	1.4208D-03	4.1240D-02	4.2660D-02	0.101
1	-4.00	800	-3.197D+18	2.613D+01	-0.966	-49.3	-4.946D-04	6.394D-06	8.091	1.2551D-03	4.1109D-02	4.2364D-02	0.121
1	-3.80	800	-3.934D+18	3.122D+01	-0.994	-49.2	-4.899D-04	7.491D-06	6.126	1.1352D-03	4.0962D-02	4.2097D-02	0.142
1	-3.60	800	-4.825D+18	3.735D+01	-1.012	-48.9	-4.816D-04	8.662D-06	4.776	1.0590D-03	4.0791D-02	4.1850D-02	0.166
1	-3.40	800	-5.905D+18	4.471D+01	-1.022	-48.3	-4.709D-04	9.914D-06	3.859	1.0243D-03	4.0597D-02	4.1622D-02	0.191
1	-3.20	800	-7.213D+18	5.350D+01	-1.028	-47.6	-4.587D-04	1.126D-05	3.242	1.0297D-03	4.0379D-02	4.1408D-02	0.217
1	-3.00	800	-8.798D+18	6.396D+01	-1.030	-46.7	-4.455D-04	1.269D-05	2.831	1.0747D-03	4.0133D-02	4.1208D-02	0.246
1	-2.80	800	-1.072D+19	7.636D+01	-1.030	-45.8	-4.316D-04	1.422D-05	2.558	1.1596D-03	3.9859D-02	4.1018D-02	0.277
1	-2.60	800	-1.304D+19	9.103D+01	-1.029	-44.8	-4.174D-04	1.586D-05	2.380	1.2859D-03	3.9555D-02	4.0841D-02	0.311
1	-2.40	800	-1.585D+19	1.083D+02	-1.028	-43.8	-4.029D-04	1.758D-05	2.265	1.4562D-03	3.9220D-02	4.0676D-02	0.346
1	-2.20	800	-1.924D+19	1.286D+02	-1.026	-42.8	-3.884D-04	1.940D-05	2.193	1.6742D-03	3.8855D-02	4.0529D-02	0.383
1	-2.00	800	-2.332D+19	1.523D+02	-1.024	-41.7	-3.739D-04	2.129D-05	2.151	1.9446D-03	3.8459D-02	4.0403D-02	0.422
1	-1.80	800	-2.822D+19	1.799D+02	-1.022	-40.7	-3.595D-04	2.325D-05	2.128	2.2730D-03	3.8034D-02	4.0307D-02	0.462
1	-1.60	800	-3.408D+19	2.120D+02	-1.020	-39.6	-3.452D-04	2.526D-05	2.119	2.6668D-03	3.7583D-02	4.0250D-02	0.502
1	-1.40	800	-4.106D+19	2.490D+02	-1.018	-38.5	-3.311D-04	2.729D-05	2.120	3.1335D-03	3.7110D-02	4.0244D-02	0.542
1	-1.20	800	-4.935D+19	2.915D+02	-1.016	-37.5	-3.171D-04	2.932D-05	2.128	3.6821D-03	3.6618D-02	4.0300D-02	0.582
1	-1.00	800	-5.915D+19	3.401D+02	-1.015	-36.4	-3.034D-04	3.132D-05	2.140	4.3218D-03	3.6113D-02	4.0435D-02	0.620
1	-0.80	800	-7.065D+19	3.954D+02	-1.013	-35.4	-2.900D-04	3.325D-05	2.157	5.0626D-03	3.5602D-02	4.0664D-02	0.654
1	-0.60	800	-8.408D+19	4.577D+02	-1.012	-34.4	-2.769D-04	3.509D-05	2.177	5.9143D-03	3.5090D-02	4.1004D-02	0.685
1	-0.40	800	-9.965D+19	5.277D+02	-1.011	-33.4	-2.641D-04	3.681D-05	2.198	6.8867D-03	3.4584D-02	4.1471D-02	0.710
1	-0.20	800	-1.176D+20	6.056D+02	-1.010	-32.5	-2.517D-04	3.837D-05	2.222	7.9890D-03	3.4091D-02	4.2080D-02	0.730
1	+0.00	800	-1.381D+20	6.917D+02	-1.010	-31.6	-2.397D-04	3.975D-05	2.247	9.2289D-03	3.3616D-02	4.2845D-02	0.742
1	+0.20	800	-1.613D+20	7.862D+02	-1.009	-30.7	-2.282D-04	4.094D-05	2.274	1.0613D-02	3.3164D-02	4.3777D-02	0.748
1	+0.40	800	-1.874D+20	8.890D+02	-1.008	-29.8	-2.171D-04	4.191D-05	2.302	1.2146D-02	3.2740D-02	4.4886D-02	0.747
1	+0.60	800	-2.166D+20	1.000D+03	-1.008	-29.0	-2.066D-04	4.267D-05	2.330	1.3831D-02	3.2346D-02	4.6176D-02	0.739
1	+0.80	800	-2.489D+20	1.119D+03	-1.007	-28.3	-1.965D-04	4.321D-05	2.359	1.5669D-02	3.1984D-02	4.7653D-02	0.725
1	+1.00	800	-2.843D+20	1.245D+03	-1.006	-27.5	-1.870D-04	4.354D-05	2.388	1.7656D-02	3.1655D-02	4.9311D-02	0.706
1	+1.20	800	-3.230D+20	1.379D+03	-1.006	-26.8	-1.780D-04	4.368D-05	2.417	1.9790D-02	3.1359D-02	5.1149D-02	0.683
1	+1.40	800	-3.649D+20	1.519D+03	-1.006	-26.1	-1.695D-04	4.364D-05	2.447	2.2069D-02	3.1094D-02	5.3163D-02	0.657
1	+1.60	800	-4.100D+20	1.666D+03	-1.005	-25.5	-1.615D-04	4.344D-05	2.476	2.4486D-02	3.0860D-02	5.5346D-02	0.628
1	+1.80	800	-4.582D+20	1.818D+03	-1.005	-24.9	-1.540D-04	4.310D-05	2.505	2.7034D-02	3.0655D-02	5.7688D-02	0.598
1	+2.00	800	-5.095D+20	1.976D+03	-1.005	-24.3	-1.469D-04	4.264D-05	2.533	2.9708D-02	3.0475D-02	6.0183D-02	0.567
1	+2.20	800	-5.639D+20	2.138D+03	-1.004	-23.8	-1.403D-04	4.208D-05	2.561	3.2500D-02	3.0319D-02	6.2819D-02	0.536
1	+2.40	800	-6.212D+20	2.304D+03	-1.004	-23.2	-1.341D-04	4.145D-05	2.588	3.5403D-02	3.0184D-02	6.5587D-02	0.506
1	+2.60	800	-6.813D+20	2.474D+03	-1.004	-22.8	-1.283D-04	4.075D-05	2.615	3.8410D-02	3.0067D-02	6.8478D-02	0.476
1	+2.80	800	-7.442D+20	2.648D+03	-1.003	-22.3	-1.229D-04	4.000D-05	2.641	4.1515D-02	2.9967D-02	7.1482D-02	0.448
1	+3.00	800	-8.098D+20	2.825D+03	-1.003	-21.8	-1.178D-04	3.921D-05	2.666	4.4710D-02	2.9882D-02	7.4592D-02	0.421
1	+3.20	800	-8.780D+20	3.004D+03	-1.003	-21.4	-1.131D-04	3.840D-05	2.691	4.7991D-02	2.9809D-02	7.7800D-02	0.395
1	+3.40	800	-9.487D+20	3.187D+03	-1.003	-21.0	-1.086D-04	3.757D-05	2.714	5.1350D-02	2.9747D-02	8.1097D-02	0.371
1	+3.60	800	-1.022D+21	3.372D+03	-1.003	-20.7	-1.044D-04	3.674D-05	2.737	5.4783D-02	2.9694D-02	8.4477D-02	0.348
1	+3.80	800	-1.097D+21	3.559D+03	-1.002	-20.3	-1.004D-04	3.591D-05	2.759	5.8284D-02	2.9649D-02	8.7933D-02	0.327
1	+4.00	800	-1.175D+21	3.748D+03	-1.002	-20.0	-9.675D-05	3.508D-05	2.780	6.1849D-02	2.9611D-02	9.1460D-02	0.307
1	+4.20	800	-1.255D+21	3.939D+03	-1.002	-19.6	-9.326D-05	3.426D-05	2.800	6.5473D-02	2.9578D-02	9.5051D-02	0.288
1	+4.40	800	-1.337D+21	4.131D+03	-1.002	-19.3	-8.999D-05	3.345D-05	2.820	6.9152D-02	2.9551D-02	9.8702D-02	0.271
1	+4.60	800	-1.421D+21	4.325D+03	-1.002	-19.0	-8.689D-05	3.266D-05	2.838	7.2882D-02	2.9527D-02	1.0241D-01	0.255
1	+4.80	800	-1.508D+21	4.521D+03	-1.002	-18.8	-8.398D-05	3.188D-05	2.856	7.6659D-02	2.9507D-02	1.0617D-01	0.240
1	+5.00	800	-1.596D+21	4.718D+03	-1.002	-18.5	-8.123D-05	3.113D-05	2.873	8.0480D-02	2.9490D-02	1.0997D-01	0.226
1	+5.20	800	-1.686D+21	4.917D+03	-1.002	-18.2	-7.862D-05	3.039D-05	2.890	8.4342D-02	2.9476D-02	1.1382D-01	0.214
1	+5.40	800	-1.778D+21	5.116D+03	-1.001	-18.0	-7.616D-05	2.968D-05	2.905	8.8242D-02	2.9464D-02	1.1771D-01	0.202
1	+5.60	800	-1.872D+21	5.317D+03	-1.001	-17.7	-7.383D-05	2.898D-05	2.920	9.2177D-02	2.9453D-02	1.2163D-01	0.191
1	+5.80	800	-1.968D+21	5.519D+03	-1.001	-17.5	-7.162D-05	2.831D-05	2.935	9.6145D-02	2.9444D-02	1.2559D-01	0.180
1	+6.00	800	-2.066D+21	5.722D+03	-1.001	-17.3	-6.953D-05	2.766D-05	2.948	1.0014D-01	2.9436D-02	1.2958D-01	0.171
1	+6.20	800	-2.165D+21	5.925D+03	-1.001	-17.1	-6.754D-05	2.703D-05	2.961	1.0417D-01	2.9429D-02	1.3360D-01	0.162
1	+6.40	800	-2.266D+21	6.130D+03	-1.001	-16.9	-6.565D-05	2.642D-05	2.974	1.0823D-01	2.9424D-02	1.3765D-01	0.154
1	+6.60	800	-2.369D+21	6.336D+03	-1.001	-16.7	-6.385D-05	2.583D-05	2.986	1.1230D-01	2.9419D-02	1.4172D-01	0.146
1	+6.80	800	-2.473D+21	6.542D+03	-1.001	-16.5	-6.213D-05	2.526D-05	2.997	1.1641D-01	2.9414D-02	1.4582D-01	0.139
1	+7.00	800	-2.579D+21	6.750D+03	-1.001	-16.4	-6.050D-05	2.471D-05	3.008	1.2053D-01	2.9411D-02	1.4994D-01	0.132
1	+7.20	800	-2.686D+21	6.958D+03	-1.001	-16.2	-5.895D-05	2.418D-05	3.018	1.2467D-01	2.9407D-02	1.5408D-01	0.126
1	+7.40	800	-2.795D+21	7.167D+03	-1.001	-16.0	-5.746D-05	2.366D-05	3.028	1.2883D-01	2.9404D-02	1.5824D-01	0.120
1	+7.60	800	-2.906D+21	7.376D+03	-1.001	-15.9	-5.604D-05	2.317D-05	3.038	1.3301D-01	2.9402D-02	1.6242D-01	0.114
1	+7.80	800	-3.018D+21	7.586D+03	-1.001	-15.7	-5.468D-05	2.269D-05	3.047	1.3721D-01	2.9399D-02	1.6661D-01	0.109
1	+8.00	800	-3.132D+21	7.797D+03	-1.001	-15.5	-5.338D-05	2.222D-05	3.056	1.4145D-01	2.9397D-02	1.7084D-01	0.104

PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT	X		Eg		Atomic-Spacing		Debye Sound-Velocity		Num-Density		Mass-Density		
														mc+	mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-	cm
1	0.300	0.7341	5.4990D-08	519.0	4.791D+05	4.811D+22	3.311D+00	1.399D+00	1.40D+00	2.938D+00	2.94D+00	2.740D+01	0.000D+00	0.000D+00	9.100D-01	9.100D-01	2.000D+00	2.000D+00								
1	-5.00	1050	+1.003D+19	6.937D+01	+0.584	+25.2	+3.150D-04	6.883D-06	X19.503	1.0541D-02	3.5913D-02	4.6454D-02	0.156													
1	-4.80	1050	+7.501D+18	6.176D+01	+0.432	+22.2	+2.739D-04	4.633D-06	X24.985	1.2024D-02	3.5866D-02	4.7890D-02	0.102													
1	-4.60	1050	+5.265D+18	5.639D+01	+0.268	+17.9	+2.169D-04	2.653D-06	X30.686	1.3482D-02	3.5811D-02	4.9293D-02	0.057													
1	-4.40	1050	+3.231D+18	5.316D+01	+0.120	+12.3	+1.449D-04	1.116D-06	X35.602	1.4747D-02	3.5748D-02	5.0495D-02	0.023													
1	-4.20	1050	+1.322D+18	5.214D+01	+0.022	+5.5	+6.181D-05	1.992D-07	X38.526	1.5652D-02	3.5675D-02	5.1326D-02	0.004													
1	-4.00	1050	-5.364D+17	5.246D+01	-0.004	-2.3	-2.516D-05	3.320D-08	X38.907	1.5902D-02	3.5590D-02	5.1492D-02	0.001													
1	-3.80	1050	-2.415D+18	5.245D+01	-0.071	-9.6	-1.109D-04	6.446D-07	X37.144	1.5180D-02	3.5495D-02	5.0675D-02	0.013													
1	-3.60	1050	-4.387D+18	5.477D+01	-0.202	-15.7	-1.882D-04	1.941D-06	X32.924	1.4049D-02	3.5383D-02	4.9432D-02	0.041													
1	-3.40	1050	-6.529D+18	5.923D+01	-0.363	-20.5	-2.518D-04	3.756D-06	X27.411	1.2651D-02	3.5255D-02	4.7905D-02	0.082													
1	-3.20	1050	-8.920D+18	6.588D+01	-0.523	-24.1	-2.995D-04	5.911D-06	X21.740	1.1160D-02	3.5109D-02	4.6269D-02	0.134													
1	-3.00	1050	-1.165D+19	7.484D+01	-0.661	-26.5	-3.321D-04	8.255D-06	X16.677	9.7247D-03	3.4945D-02	4.4669D-02	0.194													
1	-2.80	1050	-1.483D+19	8.631D+01	-0.771	-28.0	-3.518D-04	1.069D-05	X12.560	8.4471D-03	3.4760D-02	4.3207D-02	0.260													
1	-2.60	1050	-1.855D+19	1.006D+02	-0.852	-28.8	-3.615D-04	1.314D-05	9.421	7.3827D-03	3.4553D-02	4.1936D-02	0.329													
1	-2.40	1050	-2.297D+19	1.180D+02	-0.910	-29.2	-3.636D-04	1.560D-05	7.130	6.5533D-03	3.4324D-02	4.0877D-02	0.401													
1	-2.20	1050	-2.822D+19	1.389D+02	-0.949	-29.1	-3.604D-04	1.804D-05	5.509	5.9610D-03	3.4071D-02	4.0032D-02	0.473													
1	-2.00	1050	-3.449D+19	1.638D+02	-0.975	-28.9	-3.536D-04	2.047D-05	4.388	5.5982D-03	3.3795D-02	3.9394D-02	0.546													
1	-1.80	1050	-4.195D+19	1.931D+02	-0.991	-28.5	-3.442D-04	2.288D-05	3.624	5.4539D-03	3.3497D-02	3.8951D-02	0.617													
1	-1.60	1050	-5.085D+19	2.276D+02	-1.001	-28.0	-3.333D-04	2.527D-05	3.112	5.5181D-03	3.3177D-02	3.8695D-02	0.686													
1	-1.40	1050	-6.143D+19	2.677D+02	-1.007	-27.4	-3.213D-04	2.763D-05	2.773	5.7833D-03	3.2838D-02	3.8621D-02	0.751													
1	-1.20	1050	-7.395D+19	3.140D+02	-1.011	-26.8	-3.088D-04	2.994D-05	2.553	6.2455D-03	3.2483D-02	3.8728D-02	0.812													
1	-1.00	1050	-8.872D+19	3.673D+02	-1.012	-26.2	-2.960D-04	3.218D-05	2.412	6.9037D-03	3.2115D-02	3.9019D-02	0.866													
1	-0.80	1050	-1.061D+20	4.282D+02	-1.013	-25.5	-2.831D-04	3.433D-05	2.326	7.7614D-03	3.1739D-02	3.9500D-02	0.913													
1	-0.60	1050	-1.263D+20	4.972D+02	-1.012	-24.9	-2.704D-04	3.635D-05	2.277	8.8215D-03	3.1359D-02	4.0181D-02	0.950													
1	-0.40	1050	-1.497D+20	5.748D+02	-1.012	-24.3	-2.578D-04	3.822D-05	2.253	1.0091D-02	3.0982D-02	4.1073D-02	0.977													
1	-0.20	1050	-1.767D+20	6.616D+02	-1.011	-23.6	-2.456D-04	3.990D-05	2.246	1.1577D-02	3.0611D-02	4.2188D-02	0.993													
1	+0.00	1050	-2.075D+20	7.577D+02	-1.010	-23.0	-2.337D-04	4.138D-05	2.250	1.3286D-02	3.0253D-02	4.3538D-02	0.998													
1	+0.20	1050	-2.425D+20	8.633D+02	-1.009	-22.4	-2.222D-04	4.264D-05	2.263	1.5222D-02	2.9910D-02	4.5132D-02	0.992													
1	+0.40	1050	-2.818D+20	9.785D+02	-1.009	-21.9	-2.112D-04	4.366D-05	2.281	1.7391D-02	2.9587D-02	4.6978D-02	0.976													
1	+0.60	1050	-3.256D+20	1.103D+03	-1.008	-21.3	-2.007D-04	4.445D-05	2.303	1.9794D-02	2.9286D-02	4.9080D-02	0.951													
1	+0.80	1050	-3.742D+20	1.237D+03	-1.007	-20.8	-1.907D-04	4.499D-05	2.328	2.2431D-02	2.9009D-02	5.1440D-02	0.918													
1	+1.00	1050	-4.275D+20	1.379D+03	-1.006	-20.3	-1.813D-04	4.531D-05	2.355	2.5300D-02	2.8757D-02	5.4058D-02	0.880													
1	+1.20	1050	-4.857D+20	1.530D+03	-1.006	-19.8	-1.723D-04	4.542D-05	2.382	2.8392D-02	2.8531D-02	5.6922D-02	0.838													
1	+1.40	1050	-5.487D+20	1.688D+03	-1.005	-19.3	-1.639D-04	4.533D-05	2.411	3.1702D-02	2.8329D-02	6.0031D-02	0.793													
1	+1.60	1050	-6.165D+20	1.853D+03	-1.005	-18.8	-1.560D-04	4.507D-05	2.440	3.5224D-02	2.8150D-02	6.3374D-02	0.747													
1	+1.80	1050	-6.890D+20	2.024D+03	-1.004	-18.4	-1.485D-04	4.466D-05	2.469	3.8945D-02	2.7993D-02	6.6938D-02	0.701													
1	+2.00	1050	-7.662D+20	2.202D+03	-1.004	-18.0	-1.416D-04	4.412D-05	2.498	4.2861D-02	2.7856D-02	7.0718D-02	0.655													
1	+2.20	1050	-8.479D+20	2.385D+03	-1.004	-17.6	-1.350D-04	4.348D-05	2.527	4.6955D-02	2.7738D-02	7.4693D-02	0.611													
1	+2.40	1050	-9.340D+20	2.573D+03	-1.003	-17.2	-1.289D-04	4.275D-05	2.555	5.1219D-02	2.7636D-02	7.8854D-02	0.569													
1	+2.60	1050	-1.024D+21	2.764D+03	-1.003	-16.9	-1.232D-04	4.196D-05	2.583	5.5641D-02	2.7548D-02	8.3189D-02	0.530													
1	+2.80	1050	-1.119D+21	2.960D+03	-1.003	-16.6	-1.178D-04	4.111D-05	2.610	6.0211D-02	2.7473D-02	8.7684D-02	0.492													
1	+3.00	1050	-1.218D+21	3.160D+03	-1.002	-16.2	-1.128D-04	4.023D-05	2.637	6.4920D-02	2.7409D-02	9.2329D-02	0.458													
1	+3.20	1050	-1.320D+21	3.362D+03	-1.002	-15.9	-1.082D-04	3.933D-05	2.662	6.9745D-02	2.7355D-02	9.7100D-02	0.425													
1	+3.40	1050	-1.426D+21	3.568D+03	-1.002	-15.6	-1.038D-04	3.841D-05	2.688	7.4712D-02	2.7309D-02	1.0202D-01	0.395													
1	+3.60	1050	-1.536D+21	3.776D+03	-1.002	-15.4	-9.964D-05	3.749D-05	2.713	7.9807D-02	2.7270D-02	1.0708D-01	0.368													
1	+3.80	1050	-1.650D+21	3.986D+03	-1.002	-15.1	-9.579D-05	3.657D-05	2.735	8.4947D-02	2.7237D-02	1.1218D-01	0.342													
1	+4.00	1050	-1.767D+21	4.199D+03	-1.002	-14.9	-9.216D-05	3.566D-05	2.758	9.0210D-02	2.7209D-02	1.1742D-01	0.319													
1	+4.20	1050	-1.887D+21	4.413D+03	-1.001	-14.6	-8.876D-05	3.477D-05	2.779	9.5561D-02	2.7185D-02	1.2275D-01	0.297													
1	+4.40	1050	-2.011D+21	4.629D+03	-1.001	-14.4	-8.556D-05	3.389D-05	2.800	1.0099D-01	2.7165D-02	1.2816D-01	0.278													
1	+4.60	1050	-2.137D+21	4.847D+03	-1.001	-14.2	-8.254D-05	3.302D-05	2.820	1.0650D-01	2.7149D-02	1.3365D-01	0.259													
1	+4.80	1050	-2.267D+21	5.067D+03	-1.001	-14.0	-7.970D-05	3.218D-05	2.839	1.1207D-01	2.7134D-02	1.3920D-01	0.243													
1	+5.00	1050	-2.400D+21	5.287D+03	-1.001	-13.8	-7.702D-05	3.137D-05	2.857	1.1771D-01	2.7122D-02	1.4483D-01	0.227													
1	+5.20	1050	-2.535D+21	5.510D+03	-1.001	-13.6	-7.449D-05	3.057D-05	2.875	1.2340D-01	2.7112D-02	1.5051D-01	0.213													
1	+5.40	1050	-2.674D+21	5.733D+03	-1.001	-13.4	-7.210D-05	2.980D-05	2.891	1.2915D-01	2.7103D-02	1.5625D-01	0.200													
1	+5.60	1050	-2.815D+21	5.957D+03	-1.001	-13.2	-6.983D-05	2.905D-05	2.909	1.3502D-01	2.7096D-02	1.6212D-01	0.188													
1	+5.80	1050	-2.959D+21	6.183D+03	-1.001	-13.1	-6.770D-05	2.834D-05	2.923	1.4079D-01	2.7090D-02	1.6788D-01	0.177													
1	+6.00	1050	-3.106D+21	6.409D+03	-1.001	-12.9	-6.567D-05	2.764D-05	2.937	1.4668D-01	2.7084D-02	1.7376D-01	0.167													
1	+6.20	1050	-3.255D+21	6.636D+03	-1.001	-12.7	-6.375D-05	2.697D-05	2.951	1.5260D-01	2.7080D-02	1.7968D-01	0.158													
1	+6.40	1050	-3.407D+21	6.865D+03	-1.001	-12.6	-6.193D-05	2.632D-05	2.964	1.5856D-01	2.7076D-02	1.8563D-01	0.149													
1	+6.60	1050	-3.561D+21	7.094D+03	-1.001	-12.4	-6.019D-05	2.570D-05	2.977	1.6455D-01	2.7072D-02	1.9162D-01	0.141													
1	+6.80	1050	-3.718D+21	7.323D+03	-1.001	-12.3	-5.854D-05	2.510D-05	2.989	1.7057D-01	2.7069D-02	1.9764D-01	0.133													
1	+7.00	1050	-3.878D+21	7.554D+03	-1.000	-12.2	-5.697D-05	2.452D-05	3.001	1.7662D-01	2.7067D-02	2.0368D-01	0.126													
1	+7.20	1050	-4.039D+21	7.785D+03	-1.000	-12.0	-5.547D-05	2.396D-05	3.012	1.8269D-01	2.7065D-02	2.0975D-01	0.120													
1	+7.40	1050	-4.203D+21	8.017D+03	-1.000	-11.9	-5.405D-05	2.342D-05	3.022	1.8879D-01	2.7063D-02	2.1585D-01	0.114													

x	Eg eV	Atomic-Spacing cm	Debye K	Sound-Velocity cm/s	Num-Density cm-3	Mass-Density g-cm-3							
1.399D+00	1.40D+00	2.938D+00	2.94D+00	2.740D+01	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00		
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT
1	-5.00	1300	+1.259D+20	4.089D+02	+0.961	+19.5	+2.757D-04	3.107D-05	3.924	1.5476D-02	3.1936D-02	4.7412D-02	0.852
1	-4.80	1300	+1.042D+20	3.519D+02	+0.932	+19.7	+2.822D-04	2.802D-05	4.761	1.6162D-02	3.1903D-02	4.8065D-02	0.758
1	-4.60	1300	+8.554D+19	3.031D+02	+0.890	+19.7	+2.856D-04	2.472D-05	5.967	1.7445D-02	3.1864D-02	4.9309D-02	0.652
1	-4.40	1300	+6.958D+19	2.618D+02	+0.829	+19.5	+2.844D-04	2.118D-05	7.660	1.9350D-02	3.1813D-02	5.1163D-02	0.538
1	-4.20	1300	+5.586D+19	2.276D+02	+0.744	+18.9	+2.767D-04	1.742D-05	9.959	2.1870D-02	3.1762D-02	5.3632D-02	0.422
1	-4.00	1300	+4.400D+19	2.000D+02	+0.630	+17.9	+2.602D-04	1.354D-05	X12.932	2.4948D-02	3.1702D-02	5.6649D-02	0.311
1	-3.80	1300	+3.365D+19	1.785D+02	+0.488	+16.2	+2.328D-04	9.671D-06	X16.514	2.8432D-02	3.1635D-02	6.0068D-02	0.209
1	-3.60	1300	+2.446D+19	1.629D+02	+0.329	+13.7	+1.927D-04	6.049D-06	X20.406	3.2059D-02	3.1555D-02	6.3614D-02	0.124
1	-3.40	1300	+1.615D+19	1.531D+02	+0.173	+10.2	+1.399D-04	2.998D-06	X24.009	3.5450D-02	3.1463D-02	6.6913D-02	0.058
1	-3.20	1300	+8.404D+18	1.493D+02	+0.053	+5.9	+7.685D-05	8.820D-07	X26.509	3.8186D-02	3.1359D-02	6.9545D-02	0.016
1	-3.00	1300	+9.636D+17	1.529D+02	+0.001	+0.7	+8.831D-06	1.192D-08	X27.117	3.9993D-02	3.1240D-02	7.1232D-02	0.000
1	-2.80	1300	-6.442D+18	1.494D+02	-0.032	-4.6	-5.927D-05	5.251D-07	X26.879	3.8750D-02	3.1105D-02	6.9855D-02	0.010
1	-2.60	1300	-1.408D+19	1.515D+02	-0.137	-9.2	-1.243D-04	2.340D-06	X24.803	3.6244D-02	3.0955D-02	6.7199D-02	0.045
1	-2.40	1300	-2.222D+19	1.597D+02	-0.287	-12.9	-1.801D-04	5.182D-06	X21.406	3.2985D-02	3.0786D-02	6.3771D-02	0.106
1	-2.20	1300	-3.115D+19	1.738D+02	-0.448	-15.6	-2.236D-04	8.689D-06	X17.520	2.9380D-02	3.0600D-02	5.9979D-02	0.188
1	-2.00	1300	-4.117D+19	1.938D+02	-0.595	-17.5	-2.542D-04	1.252D-05	X13.816	2.5827D-02	3.0395D-02	5.6222D-02	0.289
1	-1.80	1300	-5.260D+19	2.198D+02	-0.717	-18.7	-2.733D-04	1.642D-05	X10.670	2.2625D-02	3.0172D-02	5.2797D-02	0.404
1	-1.60	1300	-6.579D+19	2.523D+02	-0.809	-19.4	-2.831D-04	2.021D-05	8.198	1.9950D-02	2.9931D-02	4.9881D-02	0.527
1	-1.40	1300	-8.113D+19	2.916D+02	-0.876	-19.7	-2.858D-04	2.382D-05	6.357	1.7882D-02	2.9675D-02	4.7557D-02	0.651
1	-1.20	1300	-9.902D+19	3.384D+02	-0.923	-19.7	-2.835D-04	2.719D-05	5.036	1.6439D-02	2.9404D-02	4.5842D-02	0.771
1	-1.00	1300	-1.199D+20	3.932D+02	-0.955	-19.5	-2.776D-04	3.030D-05	4.113	1.5600D-02	2.9122D-02	4.4722D-02	0.881
1	-0.80	1300	-1.442D+20	4.566D+02	-0.975	-19.3	-2.694D-04	3.315D-05	3.481	1.5333D-02	2.8832D-02	4.4165D-02	0.976
1	-0.60	1300	-1.724D+20	5.292D+02	-0.989	-18.9	-2.598D-04	3.573D-05	3.056	1.5601D-02	2.8538D-02	4.4139D-02	1.052
1	-0.40	1300	-2.050D+20	6.115D+02	-0.997	-18.6	-2.494D-04	3.803D-05	2.775	1.6369D-02	2.8243D-02	4.4612D-02	1.108
1	-0.20	1300	-2.424D+20	7.039D+02	-1.002	-18.2	-2.385D-04	4.005D-05	2.593	1.7608D-02	2.7953D-02	4.5561D-02	1.143
1	+0.00	1300	-2.850D+20	8.067D+02	-1.005	-17.8	-2.276D-04	4.179D-05	2.479	1.9293D-02	2.7670D-02	4.6964D-02	1.157
1	+0.20	1300	-3.333D+20	9.200D+02	-1.007	-17.3	-2.168D-04	4.323D-05	2.412	2.1403D-02	2.7400D-02	4.8802D-02	1.152
1	+0.40	1300	-3.876D+20	10.44D+03	-1.008	-16.9	-2.062D-04	4.438D-05	2.375	2.3919D-02	2.7144D-02	5.1063D-02	1.130
1	+0.60	1300	-4.481D+20	1.178D+03	-1.008	-16.5	-1.960D-04	4.524D-05	2.360	2.6825D-02	2.6905D-02	5.3730D-02	1.095
1	+0.80	1300	-5.151D+20	1.322D+03	-1.008	-16.1	-1.862D-04	4.584D-05	2.360	3.0105D-02	2.6685D-02	5.6789D-02	1.049
1	+1.00	1300	-5.886D+20	1.476D+03	-1.007	-15.8	-1.769D-04	4.617D-05	2.370	3.3746D-02	2.6484D-02	6.0230D-02	0.996
1	+1.20	1300	-6.688D+20	1.639D+03	-1.007	-15.4	-1.680D-04	4.626D-05	2.387	3.7723D-02	2.6304D-02	6.4027D-02	0.939
1	+1.40	1300	-7.556D+20	1.810D+03	-1.006	-15.0	-1.597D-04	4.615D-05	2.407	4.2023D-02	2.6143D-02	6.8166D-02	0.880
1	+1.60	1300	-8.491D+20	1.988D+03	-1.006	-14.7	-1.519D-04	4.585D-05	2.431	4.6634D-02	2.6001D-02	7.2634D-02	0.821
1	+1.80	1300	-9.490D+20	2.174D+03	-1.005	-14.4	-1.445D-04	4.538D-05	2.457	5.1534D-02	2.5876D-02	7.7410D-02	0.762
1	+2.00	1300	-1.055D+21	2.366D+03	-1.005	-14.1	-1.376D-04	4.478D-05	2.484	5.6706D-02	2.5767D-02	8.2473D-02	0.706
1	+2.20	1300	-1.168D+21	2.564D+03	-1.005	-13.8	-1.311D-04	4.407D-05	2.512	6.2133D-02	2.5674D-02	8.7806D-02	0.653
1	+2.40	1300	-1.287D+21	2.767D+03	-1.004	-13.5	-1.251D-04	4.327D-05	2.540	6.7798D-02	2.5593D-02	9.3391D-02	0.602
1	+2.60	1300	-1.411D+21	2.975D+03	-1.004	-13.2	-1.194D-04	4.241D-05	2.568	7.3684D-02	2.5524D-02	9.9208D-02	0.556
1	+2.80	1300	-1.542D+21	3.186D+03	-1.004	-12.9	-1.141D-04	4.149D-05	2.595	7.9776D-02	2.5465D-02	1.0524D-01	0.513
1	+3.00	1300	-1.677D+21	3.402D+03	-1.003	-12.7	-1.092D-04	4.054D-05	2.622	8.6059D-02	2.5415D-02	1.1147D-01	0.473
1	+3.20	1300	-1.819D+21	3.621D+03	-1.003	-12.5	-1.045D-04	3.957D-05	2.649	9.2505D-02	2.5372D-02	1.1788D-01	0.436
1	+3.40	1300	-1.965D+21	3.842D+03	-1.003	-12.2	-1.002D-04	3.858D-05	2.675	9.9138D-02	2.5336D-02	1.2447D-01	0.403
1	+3.60	1300	-2.117D+21	4.067D+03	-1.003	-12.0	-9.614D-05	3.759D-05	2.700	1.0594D-01	2.5306D-02	1.3124D-01	0.372
1	+3.80	1300	-2.273D+21	4.294D+03	-1.002	-11.8	-9.235D-05	3.662D-05	2.724	1.1282D-01	2.5280D-02	1.3810D-01	0.345
1	+4.00	1300	-2.434D+21	4.523D+03	-1.002	-11.6	-8.878D-05	3.565D-05	2.747	1.1985D-01	2.5259D-02	1.4511D-01	0.319
1	+4.20	1300	-2.600D+21	4.754D+03	-1.002	-11.4	-8.544D-05	3.470D-05	2.769	1.2701D-01	2.5240D-02	1.5225D-01	0.296
1	+4.40	1300	-2.770D+21	4.987D+03	-1.002	-11.3	-8.229D-05	3.377D-05	2.791	1.3427D-01	2.5225D-02	1.5949D-01	0.275
1	+4.60	1300	-2.944D+21	5.221D+03	-1.002	-11.1	-7.934D-05	3.286D-05	2.812	1.4162D-01	2.5212D-02	1.6683D-01	0.256
1	+4.80	1300	-3.123D+21	5.457D+03	-1.002	-10.9	-7.655D-05	3.198D-05	2.832	1.4907D-01	2.5201D-02	1.7427D-01	0.239
1	+5.00	1300	-3.306D+21	5.694D+03	-1.002	-10.8	-7.393D-05	3.112D-05	2.851	1.5659D-01	2.5192D-02	1.8179D-01	0.223
1	+5.20	1300	-3.493D+21	5.933D+03	-1.002	-10.6	-7.146D-05	3.029D-05	2.869	1.6420D-01	2.5184D-02	1.8938D-01	0.208
1	+5.40	1300	-3.684D+21	6.173D+03	-1.001	-10.5	-6.912D-05	2.949D-05	2.886	1.7187D-01	2.5178D-02	1.9704D-01	0.195
1	+5.60	1300	-3.878D+21	6.413D+03	-1.001	-10.3	-6.690D-05	2.870D-05	2.905	1.7974D-01	2.5172D-02	2.0491D-01	0.182
1	+5.80	1300	-4.077D+21	6.655D+03	-1.001	-10.2	-6.483D-05	2.797D-05	2.919	1.8739D-01	2.5167D-02	2.1255D-01	0.171
1	+6.00	1300	-4.279D+21	6.898D+03	-1.001	-10.1	-6.285D-05	2.725D-05	2.934	1.9523D-01	2.5163D-02	2.2039D-01	0.161
1	+6.20	1300	-4.484D+21	7.141D+03	-1.001	-10.0	-6.098D-05	2.656D-05	2.948	2.0311D-01	2.5160D-02	2.2827D-01	0.151
1	+6.40	1300	-4.694D+21	7.385D+03	-1.001	-9.8	-5.921D-05	2.589D-05	2.962	2.1104D-01	2.5157D-02	2.3620D-01	0.142
1	+6.60	1300	-4.906D+21	7.630D+03	-1.001	-9.7	-5.752D-05	2.525D-05	2.975	2.1901D-01	2.5154D-02	2.4416D-01	0.134
1	+6.80	1300	-5.122D+21	7.876D+03	-1.001	-9.6	-5.592D-05	2.463D-05	2.988	2.2701D-01	2.5152D-02	2.5216D-01	0.127
1	+7.00	1300	-5.342D+21	8.122D+03	-1.001	-9.5	-5.440D-05	2.403D-05	3.000	2.3505D-01	2.5150D-02	2.6020D-01	0.120
1	+7.20	1300	-5.565D+21	8.369D+03	-1.001	-9.4	-5.295D-05	2.346D-05	3.011	2.4311D-01	2.5149D-02	2.6826D-01	0.114
1	+7.40	1300	-5.791D+21	8.617D+03	-1.001	-9.3	-5.156D-05	2.291D-05	3.022	2.5120D-01	2.5147D-02	2.7635D-01	0.108
1	+7.60	1300	-6.020D+21	8.865D+03	-1.001	-9.2	-5.025D-05	2.238D-05	3.032	2.5932D-01	2.5146D-02	2.8446D-01	0.102
1	+7.80	1300	-6.252D+21	9.114D+03	-1.001	-9.1	-4.899D-05	2.187D-05	3.043	2.6749D-01	2.5145D-02	2.9264D-01	0.097
1	+8.00	1300	-6.487D+21	9.363D+03	-1.001	-9.0	-4.779D-05	2.138D-05	3.052	2.7561D-01	2.5144D-02	3.0076D-01	0.092

x	Eg eV	Atomic-Spacing cm	Debye K	Sound-Velocity cm/s	Num-Density cm-3	Mass-Density g-cm-3							
1	0.350	5.5103D-08	503.7	4.659D+05	4.782D+22	3.467D+00							
mc+	mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-		
1.399D+00	1.40D+00	2.938D+00	2.94D+00	2.74D+01	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00		
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT
1	-5.00	300	-2.786D+17	8.864D+00	-1.049	-208.3	-6.192D-04	3.399D-06	1.986	3.9193D-05	6.7024D-02	6.7063D-02	0.015
1	-4.80	300	-3.400D+17	1.064D+01	-1.044	-203.8	-6.036D-04	3.875D-06	1.990	4.7108D-05	6.6697D-02	6.6744D-02	0.017
1	-4.60	300	-4.151D+17	1.274D+01	-1.040	-199.2	-5.881D-04	4.406D-06	1.994	5.6552D-05	6.6326D-02	6.6383D-02	0.020
1	-4.40	300	-5.066D+17	1.523D+01	-1.035	-194.4	-5.727D-04	4.997D-06	1.999	6.7804D-05	6.5906D-02	6.5974D-02	0.023
1	-4.20	300	-6.181D+17	1.818D+01	-1.032	-189.4	-5.574D-04	5.650D-06	2.006	8.1184D-05	6.5434D-02	6.5515D-02	0.026
1	-4.00	300	-7.541D+17	2.165D+01	-1.029	-184.4	-5.423D-04	6.368D-06	2.014	9.7069D-05	6.4903D-02	6.5000D-02	0.029
1	-3.80	300	-9.198D+17	2.574D+01	-1.026	-179.2	-5.273D-04	7.156D-06	2.023	1.1589D-04	6.4311D-02	6.4427D-02	0.033
1	-3.60	300	-1.121D+18	3.052D+01	-1.024	-173.9	-5.124D-04	8.013D-06	2.033	1.3815D-04	6.3655D-02	6.3793D-02	0.038
1	-3.40	300	-1.367D+18	3.612D+01	-1.022	-168.6	-4.976D-04	8.942D-06	2.045	1.6444D-04	6.2933D-02	6.3097D-02	0.043
1	-3.20	300	-1.665D+18	4.264D+01	-1.021	-163.2	-4.829D-04	9.943D-06	2.059	1.9543D-04	6.2143D-02	6.2338D-02	0.048
1	-3.00	300	-2.028D+18	5.022D+01	-1.020	-157.8	-4.683D-04	1.101D-05	2.074	2.3187D-04	6.1285D-02	6.1517D-02	0.054
1	-2.80	300	-2.467D+18	5.901D+01	-1.020	-152.3	-4.538D-04	1.215D-05	2.091	2.7465D-04	6.0361D-02	6.0635D-02	0.060
1	-2.60	300	-3.000D+18	6.915D+01	-1.021	-146.9	-4.394D-04	1.335D-05	2.110	3.2477D-04	5.9372D-02	5.9697D-02	0.067
1	-2.40	300	-3.644D+18	8.084D+01	-1.021	-141.4	-4.251D-04	1.461D-05	2.130	3.8334D-04	5.8325D-02	5.8709D-02	0.075
1	-2.20	300	-4.422D+18	9.426D+01	-1.023	-136.1	-4.110D-04	1.592D-05	2.152	4.5164D-04	5.7226D-02	5.7677D-02	0.083
1	-2.00	300	-5.358D+18	1.096D+02	-1.024	-130.8	-3.969D-04	1.726D-05	2.176	5.3106D-04	5.6081D-02	5.6612D-02	0.091
1	-1.80	300	-6.482D+18	1.271D+02	-1.026	-125.6	-3.828D-04	1.864D-05	2.202	6.2326D-04	5.4900D-02	5.5523D-02	0.101
1	-1.60	300	-7.827D+18	1.471D+02	-1.028	-120.5	-3.689D-04	2.002D-05	2.229	7.2987D-04	5.3695D-02	5.4425D-02	0.110
1	-1.40	300	-9.431D+18	1.697D+02	-1.029	-115.6	-3.551D-04	2.140D-05	2.258	8.5280D-04	5.2476D-02	5.3329D-02	0.120
1	-1.20	300	-1.133D+19	1.952D+02	-1.031	-110.9	-3.415D-04	2.276D-05	2.287	9.9402D-04	5.1257D-02	5.2251D-02	0.131
1	-1.00	300	-1.358D+19	2.240D+02	-1.033	-106.3	-3.280D-04	2.409D-05	2.318	1.1556D-03	5.0050D-02	5.1206D-02	0.141
1	-0.80	300	-1.622D+19	2.561D+02	-1.034	-101.9	-3.146D-04	2.535D-05	2.349	1.3396D-03	4.8862D-02	5.0202D-02	0.152
1	-0.60	300	-1.931D+19	2.920D+02	-1.035	-97.7	-3.015D-04	2.654D-05	2.381	1.5480D-03	4.7708D-02	4.9256D-02	0.162
1	-0.40	300	-2.288D+19	3.318D+02	-1.036	-93.7	-2.886D-04	2.764D-05	2.414	1.7829D-03	4.6596D-02	4.8379D-02	0.171
1	-0.20	300	-2.700D+19	3.757D+02	-1.036	-90.0	-2.760D-04	2.862D-05	2.446	2.0456D-03	4.5534D-02	4.7580D-02	0.180
1	+0.00	300	-3.171D+19	4.238D+02	-1.036	-86.4	-2.638D-04	2.948D-05	2.478	2.3374D-03	4.4531D-02	4.6868D-02	0.189
1	+0.20	300	-3.704D+19	4.761D+02	-1.036	-83.1	-2.519D-04	3.021D-05	2.509	2.6592D-03	4.3589D-02	4.6248D-02	0.196
1	+0.40	300	-4.304D+19	5.326D+02	-1.035	-80.0	-2.405D-04	3.079D-05	2.540	3.0114D-03	4.2712D-02	4.5723D-02	0.202
1	+0.60	300	-4.974D+19	5.932D+02	-1.034	-77.0	-2.295D-04	3.124D-05	2.570	3.3940D-03	4.1902D-02	4.5296D-02	0.207
1	+0.80	300	-5.715D+19	6.578D+02	-1.034	-74.3	-2.190D-04	3.155D-05	2.599	3.8063D-03	4.1159D-02	4.4965D-02	0.210
1	+1.00	300	-6.529D+19	7.262D+02	-1.033	-71.7	-2.090D-04	3.172D-05	2.628	4.2477D-03	4.0482D-02	4.4730D-02	0.213
1	+1.20	300	-7.417D+19	7.981D+02	-1.032	-69.3	-1.995D-04	3.177D-05	2.655	4.7168D-03	3.9868D-02	4.4585D-02	0.214
1	+1.40	300	-8.380D+19	8.732D+02	-1.031	-67.0	-1.906D-04	3.171D-05	2.681	5.2119D-03	3.9316D-02	4.4528D-02	0.214
1	+1.60	300	-9.415D+19	9.514D+02	-1.030	-64.9	-1.821D-04	3.155D-05	2.707	5.7324D-03	3.8820D-02	4.4553D-02	0.212
1	+1.80	300	-1.052D+20	1.032D+03	-1.029	-63.0	-1.741D-04	3.131D-05	2.731	6.2757D-03	3.8378D-02	4.4654D-02	0.210
1	+2.00	300	-1.170D+20	1.116D+03	-1.027	-61.2	-1.667D-04	3.099D-05	2.754	6.8407D-03	3.7985D-02	4.4826D-02	0.207
1	+2.20	300	-1.295D+20	1.201D+03	-1.026	-59.4	-1.596D-04	3.061D-05	2.777	7.4257D-03	3.7637D-02	4.5063D-02	0.204
1	+2.40	300	-1.426D+20	1.289D+03	-1.025	-57.8	-1.530D-04	3.019D-05	2.798	8.0294D-03	3.7330D-02	4.5359D-02	0.200
1	+2.60	300	-1.565D+20	1.379D+03	-1.024	-56.4	-1.468D-04	2.973D-05	2.818	8.6504D-03	3.7060D-02	4.5710D-02	0.195
1	+2.80	300	-1.709D+20	1.470D+03	-1.023	-55.0	-1.410D-04	2.924D-05	2.838	9.2876D-03	3.6822D-02	4.6110D-02	0.190
1	+3.00	300	-1.860D+20	1.563D+03	-1.022	-53.7	-1.356D-04	2.873D-05	2.856	9.9380D-03	3.6614D-02	4.6552D-02	0.185
1	+3.20	300	-2.016D+20	1.658D+03	-1.022	-52.4	-1.304D-04	2.821D-05	2.874	1.0606D-02	3.6431D-02	4.7037D-02	0.180
1	+3.40	300	-2.179D+20	1.753D+03	-1.021	-51.3	-1.256D-04	2.767D-05	2.892	1.1289D-02	3.6271D-02	4.7560D-02	0.175
1	+3.60	300	-2.346D+20	1.851D+03	-1.020	-50.2	-1.211D-04	2.714D-05	2.907	1.1977D-02	3.6132D-02	4.8109D-02	0.169
1	+3.80	300	-2.520D+20	1.949D+03	-1.019	-49.2	-1.169D-04	2.661D-05	2.922	1.2678D-02	3.6010D-02	4.8688D-02	0.164
1	+4.00	300	-2.698D+20	2.049D+03	-1.018	-48.3	-1.128D-04	2.608D-05	2.937	1.3395D-02	3.5904D-02	4.9298D-02	0.159
1	+4.20	300	-2.882D+20	2.149D+03	-1.017	-47.4	-1.090D-04	2.556D-05	2.951	1.4119D-02	3.5810D-02	4.9930D-02	0.154
1	+4.40	300	-3.071D+20	2.251D+03	-1.017	-46.5	-1.055D-04	2.504D-05	2.965	1.4854D-02	3.5729D-02	5.0583D-02	0.149
1	+4.60	300	-3.264D+20	2.353D+03	-1.016	-45.7	-1.021D-04	2.454D-05	2.977	1.5597D-02	3.5658D-02	5.1255D-02	0.144
1	+4.80	300	-3.462D+20	2.457D+03	-1.015	-45.0	-9.892D-05	2.404D-05	2.989	1.6350D-02	3.5596D-02	5.1946D-02	0.139
1	+5.00	300	-3.665D+20	2.561D+03	-1.015	-44.3	-9.590D-05	2.356D-05	3.001	1.7111D-02	3.5541D-02	5.2652D-02	0.134
1	+5.20	300	-3.872D+20	2.667D+03	-1.014	-43.6	-9.305D-05	2.309D-05	3.012	1.7880D-02	3.5493D-02	5.3373D-02	0.130
1	+5.40	300	-4.084D+20	2.773D+03	-1.014	-43.0	-9.034D-05	2.263D-05	3.022	1.8656D-02	3.5451D-02	5.4107D-02	0.125
1	+5.60	300	-4.299D+20	2.880D+03	-1.013	-42.4	-8.776D-05	2.218D-05	3.032	1.9440D-02	3.5414D-02	5.4854D-02	0.121
1	+5.80	300	-4.519D+20	2.988D+03	-1.012	-41.8	-8.532D-05	2.175D-05	3.042	2.0231D-02	3.5381D-02	5.5612D-02	0.117
1	+6.00	300	-4.743D+20	3.096D+03	-1.012	-41.2	-8.300D-05	2.133D-05	3.051	2.1028D-02	3.5352D-02	5.6380D-02	0.113
1	+6.20	300	-4.971D+20	3.205D+03	-1.011	-40.7	-8.079D-05	2.092D-05	3.060	2.1832D-02	3.5326D-02	5.7158D-02	0.110
1	+6.40	300	-5.203D+20	3.315D+03	-1.011	-40.2	-7.868D-05	2.052D-05	3.068	2.2642D-02	3.5303D-02	5.7945D-02	0.106
1	+6.60	300	-5.439D+20	3.426D+03	-1.011	-39.7	-7.667D-05	2.014D-05	3.076	2.3458D-02	3.5283D-02	5.8741D-02	0.103
1	+6.80	300	-5.679D+20	3.537D+03	-1.010	-39.3	-7.476D-05	1.977D-05	3.083	2.4280D-02	3.5264D-02	5.9544D-02	0.100
1	+7.00	300	-5.922D+20	3.649D+03	-1.010	-38.8	-7.292D-05	1.941D-05	3.091	2.5107D-02	3.5248D-02	6.0355D-02	0.096
1	+7.20	300	-6.169D+20	3.762D+03	-1.009	-38.4	-7.118D-05	1.906D-05	3.097	2.5939D-02	3.5233D-02	6.1172D-02	0.093
1	+7.40	300	-6.419D+20	3.875D+03	-1.009	-38.0	-6.950D-05	1.872D-05	3.104	2.6776D-02	3.5220D-02	6.1996D-02	0.091
1	+7.60	300	-6.673D+20	3.989D+03	-1.009	-37.6	-6.790D-05	1.839D-05	3.110	2.7618D-02	3.5208D-02	6.2826D-02	0.088
1	+7.80	300	-6.931D+20	4.103D+03	-1.008	-37.3	-6.637D-05	1.807D-05	3.116	2.8465D-02	3.5197D-02	6.3662D-02	0.085
1	+8.00	300	-7.192D+20	4.218D+03	-1.008	-36.9	-6.489D-05	1.776D-05	3.122	2.9316D-02	3.5188D-02	6.4504D-02	0.083

x		Eg	Atomic-Spacing		Debye Sound-Velocity		Num-Density	Mass-Density					
		eV	cm	K	cm/s	cm-3	g-cm-3						
1 0.350		0.8509	5.5103D-08	503.7	4.659D+05	4.782D+22	3.467D+00						
mc+		mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-	
1.399D+00		1.40D+00	2.938D+00	2.94D+00	2.74D+01	2.74D+01	0.000D+00	0.000D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00	
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT
1	-5.00	550	-6.912D+17	9.488D+00	-1.075	-92.1	-6.120D-04	3.553D-06	2.142	8.2956D-05	4.9462D-02	4.9545D-02	0.039
1	-4.80	550	-8.439D+17	1.146D+01	-1.070	-90.7	-5.960D-04	4.072D-06	2.089	9.7723D-05	4.9334D-02	4.9431D-02	0.045
1	-4.60	550	-1.030D+18	1.383D+01	-1.065	-89.3	-5.801D-04	4.655D-06	2.054	1.1596D-04	4.9186D-02	4.9302D-02	0.052
1	-4.40	550	-1.257D+18	1.667D+01	-1.060	-87.8	-5.642D-04	5.308D-06	2.031	1.3825D-04	4.9017D-02	4.9155D-02	0.059
1	-4.20	550	-1.534D+18	2.007D+01	-1.055	-86.2	-5.484D-04	6.037D-06	2.018	1.6530D-04	4.8823D-02	4.8988D-02	0.068
1	-4.00	550	-1.872D+18	2.413D+01	-1.050	-84.5	-5.327D-04	6.846D-06	2.010	1.9794D-04	4.8602D-02	4.8800D-02	0.077
1	-3.80	550	-2.283D+18	2.895D+01	-1.046	-82.8	-5.171D-04	7.742D-06	2.007	2.3717D-04	4.8352D-02	4.8589D-02	0.088
1	-3.60	550	-2.784D+18	3.469D+01	-1.041	-81.0	-5.016D-04	8.727D-06	2.007	2.8418D-04	4.8067D-02	4.8351D-02	0.099
1	-3.40	550	-3.393D+18	4.149D+01	-1.037	-79.2	-4.862D-04	9.806D-06	2.010	3.4033D-04	4.7747D-02	4.8088D-02	0.112
1	-3.20	550	-4.134D+18	4.953D+01	-1.033	-77.3	-4.709D-04	1.098D-05	2.015	4.0727D-04	4.7390D-02	4.7797D-02	0.126
1	-3.00	550	-5.034D+18	5.901D+01	-1.030	-75.4	-4.557D-04	1.225D-05	2.022	4.8685D-04	4.6993D-02	4.7480D-02	0.142
1	-2.80	550	-6.125D+18	7.015D+01	-1.027	-73.4	-4.407D-04	1.362D-05	2.030	5.8125D-04	4.6554D-02	4.7135D-02	0.159
1	-2.60	550	-7.447D+18	8.322D+01	-1.024	-71.4	-4.257D-04	1.508D-05	2.040	6.9298D-04	4.6074D-02	4.6767D-02	0.177
1	-2.40	550	-9.046D+18	9.848D+01	-1.022	-69.4	-4.110D-04	1.663D-05	2.052	8.2484D-04	4.5551D-02	4.6376D-02	0.197
1	-2.20	550	-1.098D+19	1.163D+02	-1.020	-67.4	-3.963D-04	1.826D-05	2.066	9.8022D-04	4.4987D-02	4.5968D-02	0.219
1	-2.00	550	-1.330D+19	1.369D+02	-1.018	-65.4	-3.818D-04	1.996D-05	2.081	1.1628D-03	4.4385D-02	4.5548D-02	0.241
1	-1.80	550	-1.609D+19	1.608D+02	-1.017	-63.5	-3.675D-04	2.171D-05	2.098	1.3766D-03	4.3748D-02	4.5125D-02	0.265
1	-1.60	550	-1.943D+19	1.883D+02	-1.016	-61.5	-3.533D-04	2.350D-05	2.116	1.6264D-03	4.3080D-02	4.4706D-02	0.289
1	-1.40	550	-2.341D+19	2.199D+02	-1.016	-59.5	-3.393D-04	2.531D-05	2.136	1.9170D-03	4.2388D-02	4.4305D-02	0.314
1	-1.20	550	-2.814D+19	2.559D+02	-1.015	-57.6	-3.255D-04	2.711D-05	2.158	2.2538D-03	4.1678D-02	4.3931D-02	0.339
1	-1.00	550	-3.372D+19	2.969D+02	-1.015	-55.8	-3.119D-04	2.888D-05	2.181	2.6427D-03	4.0958D-02	4.3601D-02	0.364
1	-0.80	550	-4.028D+19	3.432D+02	-1.014	-54.0	-2.986D-04	3.059D-05	2.205	3.0892D-03	4.0237D-02	4.3326D-02	0.388
1	-0.60	550	-4.793D+19	3.953D+02	-1.014	-52.2	-2.855D-04	3.222D-05	2.231	3.5991D-03	3.9524D-02	4.3123D-02	0.411
1	-0.40	550	-5.681D+19	4.534D+02	-1.014	-50.5	-2.727D-04	3.373D-05	2.258	4.1779D-03	3.8825D-02	4.3003D-02	0.431
1	-0.20	550	-6.703D+19	5.179D+02	-1.014	-48.9	-2.604D-04	3.511D-05	2.285	4.8307D-03	3.8149D-02	4.2980D-02	0.449
1	+0.00	550	-7.871D+19	5.890D+02	-1.013	-47.3	-2.483D-04	3.633D-05	2.314	5.5616D-03	3.7503D-02	4.3065D-02	0.464
1	+0.20	550	-9.195D+19	6.667D+02	-1.013	-45.9	-2.368D-04	3.737D-05	2.342	6.3740D-03	3.6892D-02	4.3266D-02	0.475
1	+0.40	550	-1.068D+20	7.511D+02	-1.013	-44.4	-2.256D-04	3.823D-05	2.372	7.2701D-03	3.6321D-02	4.3592D-02	0.482
1	+0.60	550	-1.235D+20	8.420D+02	-1.012	-43.1	-2.150D-04	3.891D-05	2.401	8.2517D-03	3.5792D-02	4.4044D-02	0.486
1	+0.80	550	-1.419D+20	9.391D+02	-1.012	-41.8	-2.048D-04	3.940D-05	2.431	9.3166D-03	3.5306D-02	4.4623D-02	0.486
1	+1.00	550	-1.621D+20	1.042D+03	-1.012	-40.6	-1.952D-04	3.971D-05	2.460	1.0464D-02	3.4865D-02	4.5329D-02	0.482
1	+1.20	550	-1.841D+20	1.151D+03	-1.011	-39.5	-1.860D-04	3.985D-05	2.489	1.1694D-02	3.4467D-02	4.6160D-02	0.475
1	+1.40	550	-2.080D+20	1.265D+03	-1.011	-38.4	-1.774D-04	3.983D-05	2.518	1.3001D-02	3.4110D-02	4.7112D-02	0.465
1	+1.60	550	-2.337D+20	1.384D+03	-1.010	-37.4	-1.693D-04	3.968D-05	2.546	1.4382D-02	3.3794D-02	4.8176D-02	0.453
1	+1.80	550	-2.612D+20	1.508D+03	-1.010	-36.4	-1.617D-04	3.941D-05	2.574	1.5836D-02	3.3514D-02	4.9351D-02	0.439
1	+2.00	550	-2.905D+20	1.635D+03	-1.010	-35.5	-1.545D-04	3.903D-05	2.601	1.7356D-02	3.3269D-02	5.0625D-02	0.424
1	+2.20	550	-3.214D+20	1.767D+03	-1.009	-34.6	-1.478D-04	3.857D-05	2.627	1.8939D-02	3.3054D-02	5.1994D-02	0.408
1	+2.40	550	-3.541D+20	1.901D+03	-1.009	-33.8	-1.414D-04	3.804D-05	2.652	2.0582D-02	3.2868D-02	5.3449D-02	0.391
1	+2.60	550	-3.884D+20	2.039D+03	-1.009	-33.1	-1.355D-04	3.745D-05	2.677	2.2279D-02	3.2706D-02	5.4985D-02	0.375
1	+2.80	550	-4.242D+20	2.180D+03	-1.008	-32.3	-1.300D-04	3.682D-05	2.701	2.4028D-02	3.2566D-02	5.6594D-02	0.358
1	+3.00	550	-4.616D+20	2.323D+03	-1.008	-31.7	-1.248D-04	3.616D-05	2.724	2.5823D-02	3.2445D-02	5.8268D-02	0.341
1	+3.20	550	-5.005D+20	2.469D+03	-1.007	-31.0	-1.199D-04	3.548D-05	2.746	2.7667D-02	3.2341D-02	6.0009D-02	0.325
1	+3.40	550	-5.408D+20	2.616D+03	-1.007	-30.4	-1.153D-04	3.478D-05	2.768	2.9552D-02	3.2252D-02	6.1804D-02	0.309
1	+3.60	550	-5.825D+20	2.766D+03	-1.007	-29.8	-1.110D-04	3.407D-05	2.788	3.1476D-02	3.2175D-02	6.3651D-02	0.294
1	+3.80	550	-6.255D+20	2.918D+03	-1.006	-29.3	-1.069D-04	3.336D-05	2.808	3.3436D-02	3.2110D-02	6.5546D-02	0.280
1	+4.00	550	-6.698D+20	3.071D+03	-1.006	-28.8	-1.031D-04	3.265D-05	2.827	3.5431D-02	3.2054D-02	6.7485D-02	0.266
1	+4.20	550	-7.154D+20	3.226D+03	-1.006	-28.3	-9.952D-05	3.195D-05	2.845	3.7458D-02	3.2005D-02	6.9463D-02	0.253
1	+4.40	550	-7.622D+20	3.382D+03	-1.006	-27.9	-9.613D-05	3.126D-05	2.862	3.9515D-02	3.1964D-02	7.1479D-02	0.241
1	+4.60	550	-8.103D+20	3.540D+03	-1.005	-27.4	-9.294D-05	3.058D-05	2.879	4.1601D-02	3.1928D-02	7.3529D-02	0.229
1	+4.80	550	-8.594D+20	3.700D+03	-1.005	-27.0	-8.992D-05	2.991D-05	2.895	4.3713D-02	3.1898D-02	7.5611D-02	0.219
1	+5.00	550	-9.098D+20	3.860D+03	-1.005	-26.6	-8.706D-05	2.926D-05	2.910	4.5849D-02	3.1872D-02	7.7721D-02	0.207
1	+5.20	550	-9.612D+20	4.022D+03	-1.005	-26.2	-8.436D-05	2.863D-05	2.924	4.7998D-02	3.1849D-02	7.9848D-02	0.197
1	+5.40	550	-1.014D+21	4.185D+03	-1.004	-25.9	-8.181D-05	2.801D-05	2.939	5.0191D-02	3.1830D-02	8.2021D-02	0.188
1	+5.60	550	-1.067D+21	4.349D+03	-1.004	-25.5	-7.938D-05	2.740D-05	2.952	5.2393D-02	3.1813D-02	8.4207D-02	0.179
1	+5.80	550	-1.122D+21	4.514D+03	-1.004	-25.2	-7.709D-05	2.683D-05	2.964	5.4595D-02	3.1799D-02	8.6394D-02	0.171
1	+6.00	550	-1.177D+21	4.680D+03	-1.004	-24.9	-7.489D-05	2.625D-05	2.977	5.6856D-02	3.1786D-02	8.8642D-02	0.163
1	+6.20	550	-1.234D+21	4.847D+03	-1.004	-24.6	-7.282D-05	2.570D-05	2.988	5.9113D-02	3.1775D-02	9.0888D-02	0.156
1	+6.40	550	-1.292D+21	5.014D+03	-1.003	-24.3	-7.084D-05	2.516D-05	3.000	6.1387D-02	3.1765D-02	9.3152D-02	0.149
1	+6.60	550	-1.350D+21	5.183D+03	-1.003	-24.0	-6.895D-05	2.464D-05	3.010	6.3676D-02	3.1757D-02	9.5433D-02	0.142
1	+6.80	550	-1.410D+21	5.353D+03	-1.003	-23.8	-6.716D-05	2.414D-05	3.020	6.5980D-02	3.1750D-02	9.7729D-02	0.136
1	+7.00	550	-1.470D+21	5.523D+03	-1.003	-23.5	-6.545D-05	2.366D-05	3.030	6.8297D-02	3.1743D-02	1.0004D-01	0.130
1	+7.20	550	-1.531D+21	5.694D+03	-1.003	-23.3	-6.381D-05	2.319D-05	3.039	7.0627D-02	3.1737D-02	1.0236D-01	0.125
1	+7.40	550	-1.593D+21	5.866D+03	-1.003	-23.0	-6.225D-05	2.273D-05	3.048	7.2970D-02	3.1732D-02	1.0470D-01	0.119
1	+7.60	550	-1.657D+21	6.039D+03	-1.002	-22.8	-6.075D-05	2.229D-05	3.056	7.5325D-02	3.1728D-02	1.0705D-01	0.115
1	+7.80	550	-1.720D+21	6.212D+03	-1.002	-22.6	-5.932D-05	2.186D-05	3.064	7.7691D-02	3.1724D-02	1.0941D-01	0.110
1	+8.00	550	-1.785D+21	6.386D+03	-1.002	-22.4	-5.795D-05	2.145D-05	3.072	8.0067D-02	3.1720D-02	1.1179D-01	0.106

X	Eg	Atomic-Spacing		Debye Sound-Velocity		Num-Density	Mass-Density						
	eV	cm	K	cm/s	cm-3	g-cm-3							
1	0.350	0.7811	5.5103D-08	503.7	4.659D+05	4.782D+22	3.467D+00						
	mc+	mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-	
	1.399D+00	1.40D+00	2.938D+00	2.94D+00	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00		
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT
1	-5.00	800	-8.931D+17	1.243D+01	-0.379	-32.9	-3.321D-04	1.371D-06	X41.332	3.0498D-03	4.0574D-02	4.3623D-02	0.025
1	-4.80	800	-1.219D+18	1.398D+01	-0.542	-38.8	-3.939D-04	2.169D-06	X32.410	2.6903D-03	4.0504D-02	4.3194D-02	0.040
1	-4.60	800	-1.593D+18	1.606D+01	-0.682	-42.9	-4.368D-04	3.063D-06	X24.538	2.3390D-03	4.0423D-02	4.2762D-02	0.057
1	-4.40	800	-2.030D+18	1.872D+01	-0.793	-45.6	-4.637D-04	4.025D-06	X18.183	2.0202D-03	4.0329D-02	4.2349D-02	0.076
1	-4.20	800	-2.548D+18	2.204D+01	-0.875	-47.2	-4.783D-04	5.043D-06	X13.353	1.7473D-03	4.0221D-02	4.1968D-02	0.096
1	-4.00	800	-3.166D+18	2.614D+01	-0.932	-48.0	-4.836D-04	6.114D-06	9.833	1.5259D-03	4.0097D-02	4.1623D-02	0.118
1	-3.80	800	-3.909D+18	3.114D+01	-0.971	-48.3	-4.823D-04	7.244D-06	7.340	1.3567D-03	3.9957D-02	4.1314D-02	0.140
1	-3.60	800	-4.805D+18	3.718D+01	-0.996	-48.1	-4.765D-04	8.440D-06	5.609	1.2380D-03	3.9794D-02	4.1032D-02	0.165
1	-3.40	800	-5.888D+18	4.444D+01	-1.012	-47.7	-4.675D-04	9.711D-06	4.425	1.1675D-03	3.9609D-02	4.0777D-02	0.191
1	-3.20	800	-7.199D+18	5.313D+01	-1.021	-47.0	-4.563D-04	1.106D-05	3.624	1.1430D-03	3.9400D-02	4.0543D-02	0.218
1	-3.00	800	-8.787D+18	6.349D+01	-1.026	-46.3	-4.439D-04	1.251D-05	3.086	1.1630D-03	3.9166D-02	4.0329D-02	0.248
1	-2.80	800	-1.071D+19	7.578D+01	-1.028	-45.4	-4.305D-04	1.404D-05	2.728	1.2273D-03	3.8904D-02	4.0131D-02	0.280
1	-2.60	800	-1.304D+19	9.031D+01	-1.028	-44.4	-4.166D-04	1.567D-05	2.493	1.3364D-03	3.8613D-02	3.9950D-02	0.314
1	-2.40	800	-1.585D+19	1.074D+02	-1.027	-43.5	-4.024D-04	1.739D-05	2.340	1.4923D-03	3.8293D-02	3.9786D-02	0.350
1	-2.20	800	-1.924D+19	1.276D+02	-1.025	-42.4	-3.880D-04	1.920D-05	2.242	1.6981D-03	3.7943D-02	3.9641D-02	0.388
1	-2.00	800	-2.332D+19	1.511D+02	-1.023	-41.4	-3.736D-04	2.109D-05	2.183	1.9581D-03	3.7564D-02	3.9522D-02	0.427
1	-1.80	800	-2.821D+19	1.785D+02	-1.021	-40.3	-3.592D-04	2.304D-05	2.149	2.2776D-03	3.7157D-02	3.9435D-02	0.467
1	-1.60	800	-3.407D+19	2.103D+02	-1.020	-39.3	-3.450D-04	2.503D-05	2.133	2.6629D-03	3.6725D-02	3.9388D-02	0.508
1	-1.40	800	-4.106D+19	2.471D+02	-1.018	-38.2	-3.309D-04	2.705D-05	2.129	3.1221D-03	3.6271D-02	3.9393D-02	0.549
1	-1.20	800	-4.935D+19	2.893D+02	-1.016	-37.2	-3.169D-04	2.906D-05	2.133	3.6633D-03	3.5798D-02	3.9461D-02	0.589
1	-1.00	800	-5.915D+19	3.376D+02	-1.015	-36.2	-3.033D-04	3.104D-05	2.144	4.2959D-03	3.5313D-02	3.9609D-02	0.627
1	-0.80	800	-7.065D+19	3.925D+02	-1.013	-35.1	-2.898D-04	3.297D-05	2.159	5.0294D-03	3.4820D-02	3.9850D-02	0.662
1	-0.60	800	-8.408D+19	4.544D+02	-1.012	-34.2	-2.767D-04	3.479D-05	2.177	5.8736D-03	3.4328D-02	4.0201D-02	0.692
1	-0.40	800	-9.965D+19	5.239D+02	-1.011	-33.2	-2.639D-04	3.650D-05	2.199	6.8380D-03	3.3840D-02	4.0678D-02	0.718
1	-0.20	800	-1.176D+20	6.014D+02	-1.010	-32.3	-2.515D-04	3.805D-05	2.222	7.9318D-03	3.3365D-02	4.1296D-02	0.737
1	+0.00	800	-1.381D+20	6.869D+02	-1.010	-31.4	-2.395D-04	3.942D-05	2.247	9.1625D-03	3.2906D-02	4.2069D-02	0.750
1	+0.20	800	-1.613D+20	7.808D+02	-1.009	-30.5	-2.280D-04	4.059D-05	2.273	1.0537D-02	3.2470D-02	4.3007D-02	0.755
1	+0.40	800	-1.874D+20	8.830D+02	-1.008	-29.6	-2.169D-04	4.156D-05	2.301	1.2059D-02	3.2060D-02	4.4120D-02	0.754
1	+0.60	800	-2.166D+20	9.933D+02	-1.007	-28.8	-2.064D-04	4.231D-05	2.329	1.3732D-02	3.1680D-02	4.5412D-02	0.745
1	+0.80	800	-2.489D+20	1.112D+03	-1.007	-28.1	-1.963D-04	4.284D-05	2.358	1.5559D-02	3.1330D-02	4.6889D-02	0.731
1	+1.00	800	-2.843D+20	1.237D+03	-1.006	-27.3	-1.868D-04	4.317D-05	2.387	1.7533D-02	3.1012D-02	4.8545D-02	0.711
1	+1.20	800	-3.230D+20	1.370D+03	-1.006	-26.6	-1.778D-04	4.331D-05	2.416	1.9653D-02	3.0725D-02	5.0378D-02	0.688
1	+1.40	800	-3.649D+20	1.510D+03	-1.005	-26.0	-1.693D-04	4.326D-05	2.446	2.1917D-02	3.0470D-02	5.2387D-02	0.661
1	+1.60	800	-4.100D+20	1.655D+03	-1.005	-25.3	-1.613D-04	4.306D-05	2.475	2.4319D-02	3.0243D-02	5.4562D-02	0.631
1	+1.80	800	-4.582D+20	1.807D+03	-1.005	-24.7	-1.538D-04	4.273D-05	2.504	2.6851D-02	3.0044D-02	5.6895D-02	0.601
1	+2.00	800	-5.095D+20	1.963D+03	-1.004	-24.2	-1.467D-04	4.227D-05	2.532	2.9509D-02	2.9870D-02	5.9379D-02	0.570
1	+2.20	800	-5.639D+20	2.124D+03	-1.004	-23.6	-1.401D-04	4.172D-05	2.560	3.2284D-02	2.9719D-02	6.2002D-02	0.538
1	+2.40	800	-6.212D+20	2.290D+03	-1.004	-23.1	-1.340D-04	4.108D-05	2.588	3.5169D-02	2.9588D-02	6.4757D-02	0.508
1	+2.60	800	-6.813D+20	2.459D+03	-1.004	-22.6	-1.282D-04	4.039D-05	2.614	3.8158D-02	2.9475D-02	6.7633D-02	0.478
1	+2.80	800	-7.442D+20	2.631D+03	-1.003	-22.1	-1.227D-04	3.964D-05	2.640	4.1243D-02	2.9378D-02	7.0622D-02	0.449
1	+3.00	800	-8.098D+20	2.807D+03	-1.003	-21.7	-1.177D-04	3.886D-05	2.665	4.4420D-02	2.9296D-02	7.3715D-02	0.422
1	+3.20	800	-8.780D+20	2.986D+03	-1.003	-21.3	-1.129D-04	3.805D-05	2.689	4.7670D-02	2.9225D-02	7.6894D-02	0.396
1	+3.40	800	-9.487D+20	3.167D+03	-1.003	-20.9	-1.084D-04	3.723D-05	2.714	5.1019D-02	2.9165D-02	8.0184D-02	0.371
1	+3.60	800	-1.022D+21	3.351D+03	-1.003	-20.5	-1.042D-04	3.641D-05	2.736	5.4432D-02	2.9113D-02	8.3545D-02	0.349
1	+3.80	800	-1.097D+21	3.537D+03	-1.002	-20.2	-1.003D-04	3.558D-05	2.758	5.7912D-02	2.9070D-02	8.6981D-02	0.327
1	+4.00	800	-1.175D+21	3.725D+03	-1.002	-19.8	-9.660D-05	3.475D-05	2.779	6.1455D-02	2.9033D-02	9.0488D-02	0.307
1	+4.20	800	-1.255D+21	3.914D+03	-1.002	-19.5	-9.312D-05	3.394D-05	2.800	6.5057D-02	2.9001D-02	9.4058D-02	0.289
1	+4.40	800	-1.337D+21	4.106D+03	-1.002	-19.2	-8.984D-05	3.314D-05	2.819	6.8713D-02	2.8974D-02	9.7688D-02	0.271
1	+4.60	800	-1.421D+21	4.299D+03	-1.002	-18.9	-8.675D-05	3.235D-05	2.838	7.2421D-02	2.8952D-02	1.0137D-01	0.255
1	+4.80	800	-1.508D+21	4.493D+03	-1.002	-18.6	-8.384D-05	3.158D-05	2.856	7.6175D-02	2.8932D-02	1.0511D-01	0.240
1	+5.00	800	-1.596D+21	4.689D+03	-1.002	-18.4	-8.109D-05	3.083D-05	2.873	7.9973D-02	2.8916D-02	1.0889D-01	0.227
1	+5.20	800	-1.686D+21	4.886D+03	-1.001	-18.1	-7.849D-05	3.010D-05	2.889	8.3811D-02	2.8902D-02	1.1271D-01	0.214
1	+5.40	800	-1.778D+21	5.085D+03	-1.001	-17.9	-7.603D-05	2.939D-05	2.905	8.7687D-02	2.8890D-02	1.1658D-01	0.202
1	+5.60	800	-1.872D+21	5.284D+03	-1.001	-17.6	-7.370D-05	2.870D-05	2.920	9.1598D-02	2.8880D-02	1.2048D-01	0.191
1	+5.80	800	-1.968D+21	5.485D+03	-1.001	-17.4	-7.150D-05	2.804D-05	2.934	9.5542D-02	2.8871D-02	1.2441D-01	0.180
1	+6.00	800	-2.066D+21	5.686D+03	-1.001	-17.2	-6.940D-05	2.739D-05	2.948	9.9516D-02	2.8863D-02	1.2838D-01	0.171
1	+6.20	800	-2.165D+21	5.889D+03	-1.001	-17.0	-6.742D-05	2.676D-05	2.961	1.0352D-01	2.8857D-02	1.3238D-01	0.162
1	+6.40	800	-2.266D+21	6.092D+03	-1.001	-16.8	-6.553D-05	2.616D-05	2.974	1.0755D-01	2.8851D-02	1.3640D-01	0.153
1	+6.60	800	-2.369D+21	6.297D+03	-1.001	-16.6	-6.373D-05	2.557D-05	2.986	1.1160D-01	2.8846D-02	1.4045D-01	0.146
1	+6.80	800	-2.473D+21	6.502D+03	-1.001	-16.4	-6.202D-05	2.501D-05	2.997	1.1568D-01	2.8842D-02	1.4452D-01	0.138
1	+7.00	800	-2.579D+21	6.708D+03	-1.001	-16.2	-6.039D-05	2.446D-05	3.008	1.1977D-01	2.8838D-02	1.4861D-01	0.132
1	+7.20	800	-2.686D+21	6.915D+03	-1.001	-16.1	-5.884D-05	2.394D-05	3.018	1.2389D-01	2.8835D-02	1.5273D-01	0.125
1	+7.40	800	-2.795D+21	7.122D+03	-1.001	-15.9	-5.735D-05	2.343D-05	3.028	1.2803D-01	2.8832D-02	1.5686D-01	0.119
1	+7.60	800	-2.906D+21	7.330D+03	-1.001	-15.8	-5.593D-05	2.293D-05	3.038	1.3218D-01	2.8830D-02	1.6101D-01	0.114
1	+7.80	800	-3.018D+21	7.539D+03	-1.001	-15.6	-5.458D-05	2.246D-05	3.047	1.3635D-01	2.8827D-02	1.6518D-01	0.109
1	+8.00	800	-3.132D+21	7.748D+03	-1.001	-15.5	-5.328D-05	2.200D-05	3.056	1.4055D-01	2.8825D-02	1.6938D-01	0.104

	x	Eg eV	Atomic-Spacing cm	Debye K	Sound-Velocity cm/s	Num-Density cm ⁻³	Mass-Density g-cm ⁻³							
	mc+	mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-		
	1.399D+00	1.40D+00	2.938D+00	2.94D+00	2.740D+01	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00		
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT	
1	-5.00	1050	+1.334D+19	8.375D+01	+0.666	+26.1	+3.256D-04	8.877D-06	%15.918	1.0387D-02	3.5009D-02	4.5396D-02	0.205	
1	-4.80	1050	+1.023D+19	7.376D+01	+0.529	+23.8	+2.945D-04	6.395D-06	%20.749	1.1924D-02	3.4964D-02	4.6888D-02	0.143	
1	-4.60	1050	+7.511D+18	6.632D+01	+0.370	+20.4	+2.486D-04	4.099D-06	%26.184	1.3531D-02	3.4913D-02	4.8443D-02	0.089	
1	-4.40	1050	+5.078D+18	6.131D+01	+0.209	+15.7	+1.872D-04	2.149D-06	%31.504	1.5050D-02	3.4852D-02	4.9903D-02	0.045	
1	-4.20	1050	+2.839D+18	5.870D+01	+0.076	+9.8	+1.121D-04	7.381D-07	%35.625	1.6295D-02	3.4783D-02	5.1078D-02	0.015	
1	-4.00	1050	+7.096D+17	5.869D+01	+0.005	+2.7	+2.868D-05	4.826D-08	%37.418	1.7110D-02	3.4702D-02	5.1813D-02	0.001	
1	-3.80	1050	-1.393D+18	5.838D+01	-0.019	-5.1	-5.618D-05	1.842D-07	%37.151	1.6898D-02	3.4612D-02	5.1510D-02	0.004	
1	-3.60	1050	-3.549D+18	5.928D+01	-0.113	-11.8	-1.377D-04	1.124D-06	%34.494	1.5933D-02	3.4505D-02	5.0438D-02	0.023	
1	-3.40	1050	-5.841D+18	6.267D+01	-0.259	-17.4	-2.087D-04	2.731D-06	%29.854	1.4579D-02	3.4383D-02	4.8962D-02	0.059	
1	-3.20	1050	-8.357D+18	6.846D+01	-0.423	-21.6	-2.652D-04	4.814D-06	%24.392	1.3011D-02	3.4244D-02	4.7255D-02	0.107	
1	-3.00	1050	-1.119D+19	7.671D+01	-0.576	-24.7	-3.061D-04	7.186D-06	%19.095	1.1412D-02	3.4087D-02	4.5499D-02	0.166	
1	-2.80	1050	-1.445D+19	8.758D+01	-0.704	-26.6	-3.328D-04	9.702D-06	%14.544	9.9238D-03	3.3911D-02	4.3835D-02	0.232	
1	-2.60	1050	-1.824D+19	1.013D+02	-0.803	-27.8	-3.480D-04	1.227D-05	%10.940	8.6358D-03	3.3714D-02	4.2349D-02	0.304	
1	-2.40	1050	-2.272D+19	1.182D+02	-0.875	-28.4	-3.542D-04	1.484D-05	8.241	7.5919D-03	3.3495D-02	4.1087D-02	0.379	
1	-2.20	1050	-2.801D+19	1.387D+02	-0.925	-28.6	-3.540D-04	1.738D-05	6.298	6.8061D-03	3.3253D-02	4.0059D-02	0.456	
1	-2.00	1050	-3.431D+19	1.632D+02	-0.958	-28.4	-3.491D-04	1.989D-05	4.935	6.2750D-03	3.2989D-02	3.9264D-02	0.532	
1	-1.80	1050	-4.181D+19	1.922D+02	-0.980	-28.1	-3.412D-04	2.237D-05	3.999	5.9880D-03	3.2704D-02	3.8692D-02	0.607	
1	-1.60	1050	-5.074D+19	2.262D+02	-0.994	-27.7	-3.312D-04	2.481D-05	3.366	5.9329D-03	3.2397D-02	3.8330D-02	0.680	
1	-1.40	1050	-6.133D+19	2.659D+02	-1.003	-27.1	-3.199D-04	2.721D-05	2.944	6.0994D-03	3.2073D-02	3.8172D-02	0.748	
1	-1.20	1050	-7.387D+19	3.118D+02	-1.007	-26.5	-3.078D-04	2.954D-05	2.667	6.4801D-03	3.1732D-02	3.8212D-02	0.812	
1	-1.00	1050	-8.866D+19	3.647D+02	-1.010	-25.9	-2.953D-04	3.180D-05	2.489	7.0714D-03	3.1379D-02	3.8450D-02	0.868	
1	-0.80	1050	-1.060D+20	4.250D+02	-1.011	-25.3	-2.826D-04	3.395D-05	2.377	7.8727D-03	3.1018D-02	3.8891D-02	0.917	
1	-0.60	1050	-1.262D+20	4.935D+02	-1.012	-24.7	-2.700D-04	3.597D-05	2.311	8.8859D-03	3.0653D-02	3.9539D-02	0.955	
1	-0.40	1050	-1.497D+20	5.706D+02	-1.011	-24.1	-2.575D-04	3.784D-05	2.275	1.0116D-02	3.0290D-02	4.0406D-02	0.983	
1	-0.20	1050	-1.767D+20	6.567D+02	-1.011	-23.5	-2.453D-04	3.952D-05	2.261	1.1566D-02	2.9934D-02	4.1500D-02	1.000	
1	+0.00	1050	-2.075D+20	7.521D+02	-1.010	-22.9	-2.335D-04	4.100D-05	2.260	1.3244D-02	2.9589D-02	4.2833D-02	1.005	
1	+0.20	1050	-2.425D+20	8.570D+02	-1.009	-22.3	-2.220D-04	4.225D-05	2.269	1.5152D-02	2.9258D-02	4.4411D-02	0.999	
1	+0.40	1050	-2.818D+20	9.714D+02	-1.008	-21.7	-2.110D-04	4.327D-05	2.285	1.7295D-02	2.8947D-02	4.6242D-02	0.982	
1	+0.60	1050	-3.256D+20	1.095D+03	-1.008	-21.2	-2.005D-04	4.404D-05	2.305	1.9672D-02	2.8657D-02	4.8329D-02	0.957	
1	+0.80	1050	-3.742D+20	1.228D+03	-1.007	-20.6	-1.906D-04	4.459D-05	2.329	2.2284D-02	2.8390D-02	5.0674D-02	0.924	
1	+1.00	1050	-4.275D+20	1.369D+03	-1.006	-20.1	-1.811D-04	4.490D-05	2.355	2.5129D-02	2.8147D-02	5.3276D-02	0.885	
1	+1.20	1050	-4.857D+20	1.519D+03	-1.006	-19.6	-1.721D-04	4.501D-05	2.383	2.8195D-02	2.7728D-02	5.6123D-02	0.842	
1	+1.40	1050	-5.487D+20	1.676D+03	-1.005	-19.2	-1.637D-04	4.492D-05	2.411	3.1480D-02	2.7332D-02	5.9213D-02	0.797	
1	+1.60	1050	-6.165D+20	1.840D+03	-1.005	-18.7	-1.558D-04	4.466D-05	2.440	3.4975D-02	2.7561D-02	6.2536D-02	0.750	
1	+1.80	1050	-6.890D+20	2.010D+03	-1.004	-18.3	-1.484D-04	4.425D-05	2.469	3.8669D-02	2.7409D-02	6.6078D-02	0.703	
1	+2.00	1050	-7.662D+20	2.187D+03	-1.004	-17.9	-1.414D-04	4.372D-05	2.498	4.2558D-02	2.7277D-02	6.9835D-02	0.657	
1	+2.20	1050	-8.479D+20	2.368D+03	-1.004	-17.5	-1.349D-04	4.308D-05	2.526	4.6623D-02	2.7163D-02	7.3786D-02	0.613	
1	+2.40	1050	-9.340D+20	2.555D+03	-1.003	-17.1	-1.288D-04	4.235D-05	2.555	5.0857D-02	2.7064D-02	7.7921D-02	0.571	
1	+2.60	1050	-1.024D+21	2.746D+03	-1.003	-16.8	-1.230D-04	4.156D-05	2.583	5.5249D-02	2.6979D-02	8.2228D-02	0.531	
1	+2.80	1050	-1.119D+21	2.940D+03	-1.003	-16.4	-1.177D-04	4.073D-05	2.610	5.9788D-02	2.6907D-02	8.6695D-02	0.493	
1	+3.00	1050	-1.218D+21	3.138D+03	-1.002	-16.1	-1.127D-04	3.985D-05	2.636	6.4465D-02	2.6845D-02	9.1310D-02	0.458	
1	+3.20	1050	-1.320D+21	3.339D+03	-1.002	-15.8	-1.080D-04	3.896D-05	2.662	6.9257D-02	2.6792D-02	9.6050D-02	0.426	
1	+3.40	1050	-1.426D+21	3.543D+03	-1.002	-15.5	-1.036D-04	3.805D-05	2.687	7.4191D-02	2.6748D-02	1.0094D-01	0.396	
1	+3.60	1050	-1.536D+21	3.750D+03	-1.002	-15.3	-9.950D-05	3.712D-05	2.712	7.9252D-02	2.6710D-02	1.0596D-01	0.368	
1	+3.80	1050	-1.650D+21	3.959D+03	-1.002	-15.0	-9.565D-05	3.622D-05	2.735	8.4358D-02	2.6678D-02	1.1104D-01	0.342	
1	+4.00	1050	-1.767D+21	4.170D+03	-1.002	-14.8	-9.203D-05	3.532D-05	2.757	8.9585D-02	2.6651D-02	1.1624D-01	0.319	
1	+4.20	1050	-1.887D+21	4.383D+03	-1.001	-14.5	-8.862D-05	3.442D-05	2.779	9.4900D-02	2.6628D-02	1.2153D-01	0.297	
1	+4.40	1050	-2.011D+21	4.598D+03	-1.001	-14.3	-8.542D-05	3.355D-05	2.800	1.0029D-01	2.6609D-02	1.2690D-01	0.278	
1	+4.60	1050	-2.137D+21	4.814D+03	-1.001	-14.1	-8.241D-05	3.270D-05	2.820	1.0576D-01	2.6593D-02	1.3235D-01	0.259	
1	+4.80	1050	-2.267D+21	5.032D+03	-1.001	-13.9	-7.957D-05	3.186D-05	2.839	1.1130D-01	2.6579D-02	1.3788D-01	0.243	
1	+5.00	1050	-2.400D+21	5.251D+03	-1.001	-13.7	-7.690D-05	3.105D-05	2.857	1.1690D-01	2.6567D-02	1.4346D-01	0.227	
1	+5.20	1050	-2.535D+21	5.472D+03	-1.001	-13.5	-7.437D-05	3.026D-05	2.874	1.2255D-01	2.6557D-02	1.4911D-01	0.213	
1	+5.40	1050	-2.674D+21	5.694D+03	-1.001	-13.3	-7.198D-05	2.950D-05	2.891	1.2826D-01	2.6549D-02	1.5481D-01	0.200	
1	+5.60	1050	-2.815D+21	5.916D+03	-1.001	-13.1	-6.971D-05	2.875D-05	2.909	1.3410D-01	2.6542D-02	1.6064D-01	0.188	
1	+5.80	1050	-2.959D+21	6.140D+03	-1.001	-13.0	-6.759D-05	2.805D-05	2.923	1.3982D-01	2.6536D-02	1.6636D-01	0.177	
1	+6.00	1050	-3.106D+21	6.365D+03	-1.001	-12.8	-6.556D-05	2.736D-05	2.937	1.4567D-01	2.6530D-02	1.7220D-01	0.167	
1	+6.20	1050	-3.255D+21	6.591D+03	-1.001	-12.6	-6.364D-05	2.669D-05	2.951	1.5155D-01	2.6526D-02	1.7807D-01	0.157	
1	+6.40	1050	-3.407D+21	6.817D+03	-1.001	-12.5	-6.182D-05	2.605D-05	2.964	1.5746D-01	2.6522D-02	1.8399D-01	0.149	
1	+6.60	1050	-3.561D+21	7.045D+03	-1.001	-12.4	-6.008D-05	2.543D-05	2.977	1.6341D-01	2.6519D-02	1.8993D-01	0.141	
1	+6.80	1050	-3.718D+21	7.273D+03	-1.001	-12.2	-5.843D-05	2.483D-05	2.989	1.6939D-01	2.6516D-02	1.9591D-01	0.133	
1	+7.00	1050	-3.878D+21	7.502D+03	-1.000	-12.1	-5.687D-05	2.426D-05	3.001	1.7540D-01	2.6513D-02	2.0191D-01	0.126	
1	+7.20	1050	-4.039D+21	7.731D+03	-1.000	-12.0	-5.537D-05	2.370D-05	3.012	1.8143D-01	2.6511D-02	2.0794D-01	0.120	
1	+7.40	1050	-4.203D+21	7.962D+03	-1.000	-11.8	-5.395D-05	2.317D-05	3.022	1.8748D-01	2.6509D-02	2.1399D-01	0.114	
1	+7.60	1050	-4.370D+21	8.193D+03	-1.000	-11.7	-5.259D-05	2.265D-05	3.032	1.9356D-01	2.6508D-02	2.2007D-01	0.108	
1	+7.80	1050	-4.538D+21	8.424D+03	-1.000	-11.6	-5.129D-05	2.216D-05	3.042	1.9964D-01	2.6506D-02	2.2615D-01	0.103	
1	+8.00	1050	-4.709D+21	8.656D+03	-1.000	-11.5	-5.005D-05	2.168D-05	3.051	2.0577D-01	2.6505D-02	2.3227D-01	0.098	

	x	Eg eV	Atomic-Spacing cm	Debye K	Sound-Velocity cm/s	Num-Density cm ⁻³	Mass-Density g-cm ⁻³						
			5.5103D-08	503.7	4.659D+05	4.782D+22	3.467D+00						
			dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-	
			1.40D+00	2.938D+00	2.94D+00	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00	
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT
1	-5.00	1300	+1.532D+20	4.787D+02	+0.971	+18.9	+2.638D-04	3.332D-05	3.550	1.6395D-02	3.1127D-02	4.7521D-02	0.912
1	-4.80	1300	+1.274D+20	4.131D+02	+0.948	+19.2	+2.715D-04	3.046D-05	4.206	1.6759D-02	3.1095D-02	4.7854D-02	0.827
1	-4.60	1300	+1.053D+20	3.562D+02	+0.914	+19.3	+2.768D-04	2.729D-05	5.161	1.7735D-02	3.1058D-02	4.8793D-02	0.727
1	-4.40	1300	+8.623D+19	3.077D+02	+0.864	+19.2	+2.784D-04	2.385D-05	6.520	1.9357D-02	3.1010D-02	5.0367D-02	0.616
1	-4.20	1300	+6.985D+19	2.670D+02	+0.792	+18.9	+2.746D-04	2.014D-05	8.402	2.1642D-02	3.0961D-02	5.2603D-02	0.498
1	-4.00	1300	+5.570D+19	2.335D+02	+0.694	+18.2	+2.636D-04	1.622D-05	10.905	2.4563D-02	3.0904D-02	5.5467D-02	0.380
1	-3.80	1300	+4.340D+19	2.068D+02	+0.567	+16.9	+2.430D-04	1.221D-05	14.047	2.8021D-02	3.0841D-02	5.8862D-02	0.270
1	-3.60	1300	+3.257D+19	1.866D+02	+0.416	+14.9	+2.107D-04	8.285D-06	17.672	3.1805D-02	3.0765D-02	6.2569D-02	0.172
1	-3.40	1300	+2.287D+19	1.727D+02	+0.255	+12.0	+1.659D-04	4.750D-06	21.360	3.5578D-02	3.0677D-02	6.6255D-02	0.093
1	-3.20	1300	+1.396D+19	1.652D+02	+0.112	+8.3	+1.093D-04	1.975D-06	24.417	3.8908D-02	3.0577D-02	6.9485D-02	0.037
1	-3.00	1300	+5.556D+18	1.647D+02	+0.020	+3.6	+4.485D-05	3.314D-07	26.044	4.1387D-02	3.0464D-02	7.1851D-02	0.006
1	-2.80	1300	-2.654D+18	1.666D+02	-0.005	-1.8	-2.138D-05	7.613D-08	26.143	4.2021D-02	3.0336D-02	7.2358D-02	0.001
1	-2.60	1300	-1.096D+19	1.642D+02	-0.072	-6.7	-8.723D-05	1.249D-06	25.193	3.9895D-02	3.0192D-02	7.0087D-02	0.023
1	-2.40	1300	-1.965D+19	1.693D+02	-0.201	-10.8	-1.471D-04	3.665D-06	22.551	3.6826D-02	3.0032D-02	6.6858D-02	0.071
1	-2.20	1300	-2.904D+19	1.809D+02	-0.359	-14.0	-1.964D-04	6.976D-06	18.996	3.3157D-02	2.9854D-02	6.3011D-02	0.144
1	-2.00	1300	-3.943D+19	1.989D+02	-0.516	-16.3	-2.330D-04	1.080D-05	15.285	2.9332D-02	2.9658D-02	5.8990D-02	0.238
1	-1.80	1300	-5.118D+19	2.233D+02	-0.652	-17.8	-2.575D-04	1.481D-05	11.943	2.5729D-02	2.9445D-02	5.5174D-02	0.349
1	-1.60	1300	-6.463D+19	2.544D+02	-0.761	-18.7	-2.717D-04	1.878D-05	9.210	2.2602D-02	2.9215D-02	5.1817D-02	0.471
1	-1.40	1300	-8.017D+19	2.925D+02	-0.841	-19.2	-2.778D-04	2.257D-05	7.118	2.0087D-02	2.8969D-02	4.9056D-02	0.598
1	-1.20	1300	-9.823D+19	3.382D+02	-0.898	-19.3	-2.779D-04	2.611D-05	5.588	1.8231D-02	2.8710D-02	4.6941D-02	0.723
1	-1.00	1300	-1.192D+20	3.920D+02	-0.937	-19.2	-2.737D-04	2.937D-05	4.503	1.7031D-02	2.8440D-02	4.5471D-02	0.840
1	-0.80	1300	-1.437D+20	4.545D+02	-0.964	-19.0	-2.668D-04	3.235D-05	3.753	1.6456D-02	2.8162D-02	4.4618D-02	0.942
1	-0.60	1300	-1.720D+20	5.262D+02	-0.981	-18.7	-2.580D-04	3.502D-05	3.244	1.6466D-02	2.7879D-02	4.4345D-02	1.027
1	-0.40	1300	-2.046D+20	6.076D+02	-0.992	-18.4	-2.481D-04	3.740D-05	2.904	1.7020D-02	2.7597D-02	4.4616D-02	1.090
1	-0.20	1300	-2.421D+20	6.991D+02	-0.999	-18.0	-2.376D-04	3.947D-05	2.681	1.8082D-02	2.7318D-02	4.5400D-02	1.130
1	+0.00	1300	-2.848D+20	8.010D+02	-1.003	-17.6	-2.269D-04	4.125D-05	2.539	1.9621D-02	2.7046D-02	4.6668D-02	1.149
1	+0.20	1300	-3.331D+20	9.134D+02	-1.005	-17.2	-2.163D-04	4.272D-05	2.452	2.1610D-02	2.6786D-02	4.8395D-02	1.147
1	+0.40	1300	-3.874D+20	1.036D+03	-1.007	-16.8	-2.058D-04	4.389D-05	2.403	2.4024D-02	2.6540D-02	5.0564D-02	1.128
1	+0.60	1300	-4.480D+20	1.169D+03	-1.007	-16.4	-1.957D-04	4.477D-05	2.380	2.6844D-02	2.6310D-02	5.3153D-02	1.095
1	+0.80	1300	-5.150D+20	1.312D+03	-1.007	-16.0	-1.859D-04	4.537D-05	2.373	3.0048D-02	2.6098D-02	5.6166D-02	1.050
1	+1.00	1300	-5.885D+20	1.465D+03	-1.007	-15.6	-1.766D-04	4.571D-05	2.379	3.3623D-02	2.5905D-02	5.9528D-02	0.998
1	+1.20	1300	-6.687D+20	1.626D+03	-1.007	-15.3	-1.678D-04	4.581D-05	2.393	3.7541D-02	2.5731D-02	6.3271D-02	0.941
1	+1.40	1300	-7.556D+20	1.796D+03	-1.006	-14.9	-1.595D-04	4.570D-05	2.411	4.1786D-02	2.5576D-02	6.7362D-02	0.882
1	+1.60	1300	-8.490D+20	1.974D+03	-1.006	-14.6	-1.517D-04	4.540D-05	2.434	4.6344D-02	2.5439D-02	7.1783D-02	0.822
1	+1.80	1300	-9.490D+20	2.158D+03	-1.005	-14.3	-1.443D-04	4.494D-05	2.459	5.1194D-02	2.5318D-02	7.6513D-02	0.764
1	+2.00	1300	-1.055D+21	2.349D+03	-1.005	-14.0	-1.374D-04	4.435D-05	2.486	5.6318D-02	2.5214D-02	8.1532D-02	0.707
1	+2.20	1300	-1.168D+21	2.545D+03	-1.005	-13.7	-1.310D-04	4.365D-05	2.513	6.1698D-02	2.5123D-02	8.6821D-02	0.654
1	+2.40	1300	-1.287D+21	2.747D+03	-1.004	-13.4	-1.249D-04	4.285D-05	2.541	6.7316D-02	2.5045D-02	9.2361D-02	0.603
1	+2.60	1300	-1.411D+21	2.953D+03	-1.004	-13.1	-1.193D-04	4.200D-05	2.568	7.3155D-02	2.4979D-02	9.8133D-02	0.556
1	+2.80	1300	-1.542D+21	3.163D+03	-1.004	-12.9	-1.140D-04	4.109D-05	2.596	7.9199D-02	2.4922D-02	1.0412D-01	0.513
1	+3.00	1300	-1.677D+21	3.377D+03	-1.003	-12.6	-1.090D-04	4.014D-05	2.622	8.5434D-02	2.4873D-02	1.1031D-01	0.473
1	+3.20	1300	-1.819D+21	3.594D+03	-1.003	-12.4	-1.044D-04	3.918D-05	2.648	9.1832D-02	2.4832D-02	1.1666D-01	0.437
1	+3.40	1300	-1.965D+21	3.815D+03	-1.003	-12.2	-1.001D-04	3.820D-05	2.675	9.8416D-02	2.4797D-02	1.2321D-01	0.403
1	+3.60	1300	-2.117D+21	4.037D+03	-1.003	-11.9	-9.601D-05	3.722D-05	2.700	1.0516D-01	2.4768D-02	1.2993D-01	0.372
1	+3.80	1300	-2.273D+21	4.263D+03	-1.002	-11.7	-9.222D-05	3.625D-05	2.724	1.1200D-01	2.4743D-02	1.3674D-01	0.345
1	+4.00	1300	-2.434D+21	4.490D+03	-1.002	-11.5	-8.866D-05	3.529D-05	2.747	1.1898D-01	2.4722D-02	1.4370D-01	0.319
1	+4.20	1300	-2.600D+21	4.719D+03	-1.002	-11.4	-8.531D-05	3.435D-05	2.769	1.2608D-01	2.4705D-02	1.5078D-01	0.296
1	+4.40	1300	-2.770D+21	4.951D+03	-1.002	-11.2	-8.217D-05	3.343D-05	2.791	1.3328D-01	2.4690D-02	1.5797D-01	0.275
1	+4.60	1300	-2.944D+21	5.183D+03	-1.002	-11.0	-7.922D-05	3.253D-05	2.812	1.4059D-01	2.4677D-02	1.6526D-01	0.256
1	+4.80	1300	-3.123D+21	5.417D+03	-1.002	-10.8	-7.643D-05	3.165D-05	2.832	1.4798D-01	2.4667D-02	1.7265D-01	0.238
1	+5.00	1300	-3.306D+21	5.653D+03	-1.002	-10.7	-7.381D-05	3.080D-05	2.851	1.5545D-01	2.4658D-02	1.8011D-01	0.222
1	+5.20	1300	-3.493D+21	5.890D+03	-1.002	-10.5	-7.134D-05	2.998D-05	2.869	1.6300D-01	2.4651D-02	1.8765D-01	0.208
1	+5.40	1300	-3.684D+21	6.127D+03	-1.001	-10.4	-6.901D-05	2.918D-05	2.886	1.7061D-01	2.4644D-02	1.9525D-01	0.194
1	+5.60	1300	-3.878D+21	6.366D+03	-1.001	-10.3	-6.681D-05	2.841D-05	2.903	1.7828D-01	2.4639D-02	2.0292D-01	0.182
1	+5.80	1300	-4.077D+21	6.606D+03	-1.001	-10.1	-6.472D-05	2.767D-05	2.919	1.8601D-01	2.4634D-02	2.1065D-01	0.171
1	+6.00	1300	-4.279D+21	6.847D+03	-1.001	-10.0	-6.275D-05	2.696D-05	2.934	1.9380D-01	2.4630D-02	2.1843D-01	0.160
1	+6.20	1300	-4.484D+21	7.089D+03	-1.001	-9.9	-6.088D-05	2.627D-05	2.949	2.0162D-01	2.4627D-02	2.2625D-01	0.151
1	+6.40	1300	-4.694D+21	7.331D+03	-1.001	-9.8	-5.911D-05	2.561D-05	2.962	2.0949D-01	2.4624D-02	2.3412D-01	0.142
1	+6.60	1300	-4.906D+21	7.574D+03	-1.001	-9.6	-5.742D-05	2.497D-05	2.975	2.1740D-01	2.4622D-02	2.4202D-01	0.134
1	+6.80	1300	-5.122D+21	7.818D+03	-1.001	-9.5	-5.582D-05	2.436D-05	2.988	2.2535D-01	2.4620D-02	2.4997D-01	0.127
1	+7.00	1300	-5.342D+21	8.062D+03	-1.001	-9.4	-5.430D-05	2.377D-05	3.000	2.3332D-01	2.4618D-02	2.5794D-01	0.120
1	+7.20	1300	-5.565D+21	8.307D+03	-1.001	-9.3	-5.285D-05	2.321D-05	3.011	2.4132D-01	2.4616D-02	2.6594D-01	0.113
1	+7.40	1300	-5.791D+21	8.553D+03	-1.001	-9.2	-5.147D-05	2.266D-05	3.022	2.4935D-01	2.4615D-02	2.7397D-01	0.108
1	+7.60	1300	-6.020D+21	8.799D+03	-1.001	-9.1	-5.016D-05	2.214D-05	3.032	2.5741D-01	2.4614D-02	2.8202D-01	0.102
1	+7.80	1300	-6.252D+21	9.046D+03	-1.001	-9.0	-4.890D-05	2.163D-05	3.043	2.6552D-01	2.4613D-02	2.9014D-01	0.097
1	+8.00	1300	-6.487D+21	9.293D+03	-1.001	-8.9	-4.770D-05	2.115D-05	3.052	2.7358D-01	2.4612D-02	2.9819D-01	0.092

x	Eg eV	Atomic-Spacing cm	Debye K	Sound-Velocity cm/s	Num-Density cm ⁻³	Mass-Density g-cm ⁻³							
1.399D+00	1.40D+00	2.938D+00	2.94D+00	2.74D+01	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00		
mc+	mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-		
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT
1	-5.00	300	-2.786D+17	8.787D+00	-1.049	-206.5	-6.191D-04	3.368D-06	1.986	3.8848D-05	6.6180D-02	6.6219D-02	0.015
1	-4.80	300	-3.400D+17	1.054D+01	-1.044	-202.1	-6.035D-04	3.840D-06	1.989	4.6697D-05	6.5868D-02	6.5914D-02	0.017
1	-4.60	300	-4.151D+17	1.263D+01	-1.040	-197.5	-5.880D-04	4.367D-06	1.994	5.6063D-05	6.5512D-02	6.5568D-02	0.020
1	-4.40	300	-5.066D+17	1.511D+01	-1.036	-192.8	-5.726D-04	4.953D-06	1.999	6.7223D-05	6.5109D-02	6.5176D-02	0.023
1	-4.20	300	-6.181D+17	1.803D+01	-1.032	-187.9	-5.573D-04	5.600D-06	2.006	8.0496D-05	6.4656D-02	6.4736D-02	0.026
1	-4.00	300	-7.541D+17	2.148D+01	-1.029	-182.9	-5.422D-04	6.313D-06	2.013	9.6256D-05	6.4145D-02	6.4242D-02	0.029
1	-3.80	300	-9.198D+17	2.553D+01	-1.026	-177.8	-5.271D-04	7.094D-06	2.022	1.1494D-04	6.3576D-02	6.3691D-02	0.033
1	-3.60	300	-1.121D+18	3.028D+01	-1.024	-172.6	-5.122D-04	7.945D-06	2.032	1.3702D-04	6.2944D-02	6.3082D-02	0.038
1	-3.40	300	-1.367D+18	3.584D+01	-1.022	-167.3	-4.974D-04	8.868D-06	2.044	1.6312D-04	6.2249D-02	6.2412D-02	0.043
1	-3.20	300	-1.665D+18	4.232D+01	-1.021	-162.0	-4.827D-04	9.861D-06	2.058	1.9388D-04	6.1487D-02	6.1680D-02	0.048
1	-3.00	300	-2.028D+18	4.985D+01	-1.020	-156.6	-4.681D-04	1.092D-05	2.073	2.3006D-04	6.0658D-02	6.0888D-02	0.054
1	-2.80	300	-2.467D+18	5.858D+01	-1.020	-151.2	-4.536D-04	1.205D-05	2.090	2.7254D-04	5.9765D-02	6.0037D-02	0.060
1	-2.60	300	-3.000D+18	6.866D+01	-1.021	-145.8	-4.392D-04	1.325D-05	2.109	3.2231D-04	5.8808D-02	5.9131D-02	0.067
1	-2.40	300	-3.644D+18	8.028D+01	-1.021	-140.4	-4.249D-04	1.450D-05	2.129	3.8048D-04	5.7794D-02	5.8174D-02	0.075
1	-2.20	300	-4.422D+18	9.362D+01	-1.022	-135.1	-4.107D-04	1.580D-05	2.151	4.4834D-04	5.6727D-02	5.7176D-02	0.083
1	-2.00	300	-5.358D+18	1.089D+02	-1.024	-129.9	-3.966D-04	1.713D-05	2.175	5.2725D-04	5.5615D-02	5.6142D-02	0.092
1	-1.80	300	-6.482D+18	1.263D+02	-1.025	-124.8	-3.826D-04	1.850D-05	2.200	6.1887D-04	5.4467D-02	5.5086D-02	0.101
1	-1.60	300	-7.827D+18	1.462D+02	-1.027	-119.8	-3.687D-04	1.987D-05	2.227	7.2484D-04	5.3294D-02	5.4019D-02	0.110
1	-1.40	300	-9.431D+18	1.687D+02	-1.029	-114.9	-3.549D-04	2.125D-05	2.256	8.4705D-04	5.2106D-02	5.2953D-02	0.120
1	-1.20	300	-1.133D+19	1.941D+02	-1.031	-110.2	-3.413D-04	2.260D-05	2.285	9.8745D-04	5.0915D-02	5.1903D-02	0.131
1	-1.00	300	-1.358D+19	2.227D+02	-1.032	-105.6	-3.277D-04	2.392D-05	2.316	1.1481D-03	4.9737D-02	5.0885D-02	0.141
1	-0.80	300	-1.622D+19	2.547D+02	-1.033	-101.3	-3.144D-04	2.518D-05	2.347	1.3311D-03	4.8575D-02	4.9906D-02	0.151
1	-0.60	300	-1.931D+19	2.905D+02	-1.034	-97.1	-3.013D-04	2.636D-05	2.379	1.5384D-03	4.7444D-02	4.8983D-02	0.161
1	-0.40	300	-2.288D+19	3.301D+02	-1.035	-93.2	-2.884D-04	2.745D-05	2.411	1.7720D-03	4.6354D-02	4.8126D-02	0.171
1	-0.20	300	-2.700D+19	3.738D+02	-1.035	-89.5	-2.758D-04	2.843D-05	2.443	2.0335D-03	4.5313D-02	4.7347D-02	0.180
1	+0.00	300	-3.171D+19	4.217D+02	-1.035	-86.0	-2.635D-04	2.929D-05	2.475	2.3239D-03	4.4327D-02	4.6461D-02	0.188
1	+0.20	300	-3.704D+19	4.738D+02	-1.035	-82.7	-2.517D-04	3.001D-05	2.507	2.6442D-03	4.3401D-02	4.6046D-02	0.196
1	+0.40	300	-4.304D+19	5.302D+02	-1.035	-79.6	-2.402D-04	3.060D-05	2.538	2.9948D-03	4.2539D-02	4.5534D-02	0.202
1	+0.60	300	-4.974D+19	5.906D+02	-1.034	-76.6	-2.293D-04	3.104D-05	2.568	3.3757D-03	4.1742D-02	4.5117D-02	0.206
1	+0.80	300	-5.715D+19	6.550D+02	-1.033	-73.9	-2.188D-04	3.135D-05	2.597	3.7862D-03	4.1009D-02	4.4796D-02	0.210
1	+1.00	300	-6.529D+19	7.231D+02	-1.032	-71.4	-2.080D-04	3.152D-05	2.625	4.2258D-03	4.0342D-02	4.4567D-02	0.212
1	+1.20	300	-7.417D+19	7.948D+02	-1.031	-69.0	-1.993D-04	3.157D-05	2.653	4.6930D-03	3.9736D-02	4.4429D-02	0.213
1	+1.40	300	-8.380D+19	8.697D+02	-1.030	-66.7	-1.904D-04	3.152D-05	2.679	5.1861D-03	3.9191D-02	4.4377D-02	0.213
1	+1.60	300	-9.415D+19	9.476D+02	-1.029	-64.7	-1.819D-04	3.136D-05	2.704	5.7045D-03	3.8701D-02	4.4405D-02	0.212
1	+1.80	300	-1.052D+20	1.028D+03	-1.028	-62.7	-1.740D-04	3.111D-05	2.729	6.2458D-03	3.8264D-02	4.4510D-02	0.210
1	+2.00	300	-1.170D+20	1.111D+03	-1.027	-60.9	-1.665D-04	3.080D-05	2.752	6.8087D-03	3.7875D-02	4.4684D-02	0.207
1	+2.20	300	-1.295D+20	1.197D+03	-1.026	-59.2	-1.595D-04	3.043D-05	2.774	7.3916D-03	3.7530D-02	4.4922D-02	0.203
1	+2.40	300	-1.426D+20	1.284D+03	-1.025	-57.6	-1.529D-04	3.001D-05	2.796	7.9931D-03	3.7226D-02	4.5219D-02	0.199
1	+2.60	300	-1.565D+20	1.374D+03	-1.024	-56.1	-1.467D-04	2.955D-05	2.816	8.6119D-03	3.6957D-02	4.5569D-02	0.195
1	+2.80	300	-1.709D+20	1.465D+03	-1.023	-54.7	-1.409D-04	2.906D-05	2.836	9.2468D-03	3.6722D-02	4.5968D-02	0.190
1	+3.00	300	-1.860D+20	1.557D+03	-1.022	-53.4	-1.354D-04	2.856D-05	2.854	9.8950D-03	3.6515D-02	4.6410D-02	0.185
1	+3.20	300	-2.016D+20	1.652D+03	-1.021	-52.2	-1.303D-04	2.804D-05	2.872	1.0561D-02	3.6333D-02	4.6894D-02	0.179
1	+3.40	300	-2.179D+20	1.747D+03	-1.020	-51.1	-1.255D-04	2.750D-05	2.890	1.1241D-02	3.6175D-02	4.7416D-02	0.174
1	+3.60	300	-2.346D+20	1.844D+03	-1.020	-50.0	-1.210D-04	2.698D-05	2.906	1.1927D-02	3.6036D-02	4.7963D-02	0.169
1	+3.80	300	-2.520D+20	1.942D+03	-1.019	-49.0	-1.167D-04	2.645D-05	2.920	1.2625D-02	3.5914D-02	4.8539D-02	0.163
1	+4.00	300	-2.698D+20	2.041D+03	-1.018	-48.1	-1.127D-04	2.592D-05	2.936	1.3340D-02	3.5808D-02	4.9148D-02	0.158
1	+4.20	300	-2.882D+20	2.141D+03	-1.017	-47.2	-1.089D-04	2.540D-05	2.950	1.4062D-02	3.5715D-02	4.9777D-02	0.153
1	+4.40	300	-3.071D+20	2.243D+03	-1.017	-46.3	-1.053D-04	2.489D-05	2.963	1.4794D-02	3.5634D-02	5.0428D-02	0.148
1	+4.60	300	-3.264D+20	2.345D+03	-1.016	-45.6	-1.020D-04	2.438D-05	2.976	1.5535D-02	3.5563D-02	5.1098D-02	0.143
1	+4.80	300	-3.462D+20	2.448D+03	-1.015	-44.8	-9.879D-05	2.389D-05	2.988	1.6285D-02	3.5501D-02	5.1786D-02	0.138
1	+5.00	300	-3.665D+20	2.552D+03	-1.015	-44.1	-9.577D-05	2.341D-05	3.000	1.7044D-02	3.5446D-02	5.2490D-02	0.134
1	+5.20	300	-3.872D+20	2.657D+03	-1.014	-43.4	-9.292D-05	2.294D-05	3.011	1.7810D-02	3.5398D-02	5.3208D-02	0.129
1	+5.40	300	-4.084D+20	2.763D+03	-1.013	-42.8	-9.021D-05	2.249D-05	3.021	1.8584D-02	3.5355D-02	5.3939D-02	0.125
1	+5.60	300	-4.299D+20	2.870D+03	-1.013	-42.2	-8.764D-05	2.204D-05	3.031	1.9365D-02	3.5318D-02	5.4683D-02	0.121
1	+5.80	300	-4.519D+20	2.977D+03	-1.012	-41.6	-8.520D-05	2.161D-05	3.041	2.0153D-02	3.5285D-02	5.5439D-02	0.117
1	+6.00	300	-4.743D+20	3.085D+03	-1.012	-41.1	-8.288D-05	2.119D-05	3.050	2.0948D-02	3.5256D-02	5.6204D-02	0.113
1	+6.20	300	-4.971D+20	3.194D+03	-1.011	-40.6	-8.067D-05	2.079D-05	3.059	2.1749D-02	3.5230D-02	5.6979D-02	0.109
1	+6.40	300	-5.203D+20	3.304D+03	-1.011	-40.1	-7.857D-05	2.039D-05	3.067	2.2556D-02	3.5207D-02	5.7763D-02	0.106
1	+6.60	300	-5.439D+20	3.414D+03	-1.010	-39.6	-7.656D-05	2.001D-05	3.075	2.3370D-02	3.5186D-02	5.8556D-02	0.103
1	+6.80	300	-5.679D+20	3.525D+03	-1.010	-39.1	-7.465D-05	1.964D-05	3.083	2.4188D-02	3.5168D-02	5.9356D-02	0.099
1	+7.00	300	-5.922D+20	3.636D+03	-1.010	-38.7	-7.282D-05	1.928D-05	3.090	2.5012D-02	3.5152D-02	6.0164D-02	0.096
1	+7.20	300	-6.169D+20	3.749D+03	-1.009	-38.3	-7.107D-05	1.894D-05	3.097	2.5842D-02	3.5137D-02	6.0978D-02	0.093
1	+7.40	300	-6.419D+20	3.862D+03	-1.009	-37.9	-6.940D-05	1.860D-05	3.103	2.6676D-02	3.5123D-02	6.1799D-02	0.090
1	+7.60	300	-6.673D+20	3.975D+03	-1.009	-37.5	-6.780D-05	1.827D-05	3.109	2.7515D-02	3.5111D-02	6.2627D-02	0.088
1	+7.80	300	-6.931D+20	4.089D+03	-1.008	-37.1	-6.627D-05	1.796D-05	3.115	2.8359D-02	3.5100D-02	6.3459D-02	0.085
1	+8.00	300	-7.192D+20	4.204D+03	-1.008	-36.8	-6.480D-05	1.765D-05	3.121	2.9207D-02	3.5090D-02	6.4298D-02	0.082

x		Eg	Atomic-Spacing		Debye Sound-Velocity		Num-Density		Mass-Density					
		eV	cm	K	cm/s	cm ⁻³	g-cm ⁻³							
1	0.400	0.8327	5.5216D-08	489.4	4.536D+05	4.752D+22	3.621D+00							
mc+	mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-			
1.399D+00	1.40D+00	2.938D+00	2.94D+00	2.740D+01	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00			
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT	
1	-5.00	550	-6.911D+17	9.403D+00	-1.075	-91.3	-6.116D-04	3.517D-06	2.210	8.4825D-05	4.8779D-02	4.8864D-02	0.040	
1	-4.80	550	-8.438D+17	1.136D+01	-1.070	-89.9	-5.958D-04	4.032D-06	2.134	9.8947D-05	4.8657D-02	4.8756D-02	0.045	
1	-4.60	550	-1.030D+18	1.371D+01	-1.065	-88.5	-5.799D-04	4.611D-06	2.084	1.1661D-04	4.8516D-02	4.8632D-02	0.052	
1	-4.40	550	-1.257D+18	1.653D+01	-1.060	-87.0	-5.641D-04	5.258D-06	2.051	1.3836D-04	4.8353D-02	4.8492D-02	0.060	
1	-4.20	550	-1.534D+18	1.989D+01	-1.055	-85.4	-5.483D-04	5.981D-06	2.031	1.6490D-04	4.8168D-02	4.8333D-02	0.068	
1	-4.00	550	-1.872D+18	2.392D+01	-1.050	-83.8	-5.326D-04	6.783D-06	2.019	1.9705D-04	4.7958D-02	4.8155D-02	0.077	
1	-3.80	550	-2.283D+18	2.870D+01	-1.046	-82.1	-5.170D-04	7.671D-06	2.013	2.3577D-04	4.7717D-02	4.7952D-02	0.088	
1	-3.60	550	-2.784D+18	3.439D+01	-1.041	-80.3	-5.014D-04	8.648D-06	2.011	2.8225D-04	4.7444D-02	4.7726D-02	0.100	
1	-3.40	550	-3.393D+18	4.114D+01	-1.037	-78.5	-4.860D-04	9.719D-06	2.012	3.3783D-04	4.7137D-02	4.7475D-02	0.113	
1	-3.20	550	-4.134D+18	4.912D+01	-1.034	-76.7	-4.707D-04	1.088D-05	2.016	4.0413D-04	4.6793D-02	4.7198D-02	0.127	
1	-3.00	550	-5.034D+18	5.852D+01	-1.030	-74.8	-4.556D-04	1.215D-05	2.022	4.8300D-04	4.6412D-02	4.6895D-02	0.142	
1	-2.80	550	-6.125D+18	6.958D+01	-1.027	-72.8	-4.405D-04	1.350D-05	2.030	5.7660D-04	4.5990D-02	4.6566D-02	0.159	
1	-2.60	550	-7.447D+18	8.255D+01	-1.024	-70.9	-4.256D-04	1.495D-05	2.040	6.8742D-04	4.5527D-02	4.6214D-02	0.178	
1	-2.40	550	-9.046D+18	9.771D+01	-1.022	-68.9	-4.108D-04	1.649D-05	2.052	8.1825D-04	4.5023D-02	4.5841D-02	0.198	
1	-2.20	550	-1.098D+19	1.154D+02	-1.020	-66.9	-3.962D-04	1.811D-05	2.065	9.7244D-04	4.4479D-02	4.5452D-02	0.219	
1	-2.00	550	-1.330D+19	1.359D+02	-1.019	-65.0	-3.817D-04	1.979D-05	2.080	1.1536D-03	4.3898D-02	4.5051D-02	0.242	
1	-1.80	550	-1.609D+19	1.596D+02	-1.017	-63.0	-3.673D-04	2.153D-05	2.097	1.3659D-03	4.3282D-02	4.4648D-02	0.265	
1	-1.60	550	-1.943D+19	1.869D+02	-1.016	-61.0	-3.531D-04	2.331D-05	2.115	1.6139D-03	4.2635D-02	4.4249D-02	0.290	
1	-1.40	550	-2.341D+19	2.183D+02	-1.016	-59.1	-3.391D-04	2.510D-05	2.135	1.9025D-03	4.1964D-02	4.3867D-02	0.315	
1	-1.20	550	-2.814D+19	2.541D+02	-1.015	-57.2	-3.253D-04	2.689D-05	2.157	2.2369D-03	4.1276D-02	4.3513D-02	0.340	
1	-1.00	550	-3.372D+19	2.949D+02	-1.015	-55.4	-3.117D-04	2.865D-05	2.180	2.6232D-03	4.0577D-02	4.3201D-02	0.365	
1	-0.80	550	-4.028D+19	3.409D+02	-1.014	-53.6	-2.984D-04	3.035D-05	2.204	3.0667D-03	3.9877D-02	4.2943D-02	0.389	
1	-0.60	550	-4.793D+19	3.927D+02	-1.014	-51.9	-2.853D-04	3.196D-05	2.230	3.5734D-03	3.9182D-02	4.2755D-02	0.411	
1	-0.40	550	-5.681D+19	4.505D+02	-1.014	-50.2	-2.725D-04	3.346D-05	2.256	4.1484D-03	3.8502D-02	4.2650D-02	0.432	
1	-0.20	550	-6.703D+19	5.147D+02	-1.013	-48.6	-2.601D-04	3.483D-05	2.284	4.7971D-03	3.7843D-02	4.2540D-02	0.449	
1	+0.00	550	-7.871D+19	5.854D+02	-1.013	-47.0	-2.481D-04	3.604D-05	2.312	5.5236D-03	3.7212D-02	4.2436D-02	0.464	
1	+0.20	550	-9.195D+19	6.627D+02	-1.013	-45.6	-2.365D-04	3.708D-05	2.341	6.3311D-03	3.6616D-02	4.2347D-02	0.475	
1	+0.40	550	-1.068D+20	7.466D+02	-1.012	-44.2	-2.254D-04	3.794D-05	2.370	7.2218D-03	3.6057D-02	4.2278D-02	0.482	
1	+0.60	550	-1.235D+20	8.370D+02	-1.012	-42.8	-2.148D-04	3.861D-05	2.400	8.1977D-03	3.5539D-02	4.2227D-02	0.485	
1	+0.80	550	-1.419D+20	9.337D+02	-1.012	-41.6	-2.046D-04	3.909D-05	2.429	9.2565D-03	3.5063D-02	4.2180D-02	0.485	
1	+1.00	550	-1.621D+20	1.036D+03	-1.011	-40.4	-1.950D-04	3.940D-05	2.458	1.0398D-02	3.4631D-02	4.2137D-02	0.481	
1	+1.20	550	-1.841D+20	1.145D+03	-1.011	-39.2	-1.858D-04	3.954D-05	2.487	1.1620D-02	3.4240D-02	4.2100D-02	0.474	
1	+1.40	550	-2.080D+20	1.258D+03	-1.011	-38.2	-1.772D-04	3.952D-05	2.516	1.2920D-02	3.3891D-02	4.2071D-02	0.464	
1	+1.60	550	-2.337D+20	1.377D+03	-1.010	-37.1	-1.691D-04	3.937D-05	2.544	1.4294D-02	3.3580D-02	4.2047D-02	0.452	
1	+1.80	550	-2.612D+20	1.500D+03	-1.010	-36.2	-1.615D-04	3.910D-05	2.572	1.5740D-02	3.3305D-02	4.2025D-02	0.438	
1	+2.00	550	-2.905D+20	1.626D+03	-1.009	-35.3	-1.543D-04	3.873D-05	2.599	1.7252D-02	3.3063D-02	5.0316D-02	0.423	
1	+2.20	550	-3.214D+20	1.757D+03	-1.009	-34.4	-1.476D-04	3.827D-05	2.625	1.8827D-02	3.2852D-02	5.1679D-02	0.407	
1	+2.40	550	-3.541D+20	1.891D+03	-1.009	-33.6	-1.413D-04	3.774D-05	2.651	2.0461D-02	3.2668D-02	5.3129D-02	0.391	
1	+2.60	550	-3.884D+20	2.028D+03	-1.008	-32.9	-1.353D-04	3.716D-05	2.676	2.2149D-02	3.2509D-02	5.4658D-02	0.374	
1	+2.80	550	-4.242D+20	2.168D+03	-1.008	-32.2	-1.298D-04	3.653D-05	2.700	2.3889D-02	3.2371D-02	5.6260D-02	0.357	
1	+3.00	550	-4.616D+20	2.311D+03	-1.008	-31.5	-1.246D-04	3.587D-05	2.722	2.5675D-02	3.2251D-02	5.7927D-02	0.341	
1	+3.20	550	-5.005D+20	2.456D+03	-1.007	-30.9	-1.197D-04	3.519D-05	2.745	2.7510D-02	3.2149D-02	5.9659D-02	0.324	
1	+3.40	550	-5.408D+20	2.603D+03	-1.007	-30.3	-1.151D-04	3.450D-05	2.766	2.9385D-02	3.2061D-02	6.1446D-02	0.309	
1	+3.60	550	-5.825D+20	2.752D+03	-1.007	-29.7	-1.108D-04	3.379D-05	2.787	3.1299D-02	3.1985D-02	6.3284D-02	0.294	
1	+3.80	550	-6.255D+20	2.903D+03	-1.006	-29.1	-1.068D-04	3.309D-05	2.807	3.3250D-02	3.1920D-02	6.5170D-02	0.279	
1	+4.00	550	-6.698D+20	3.055D+03	-1.006	-28.6	-1.030D-04	3.238D-05	2.826	3.5235D-02	3.1864D-02	6.7099D-02	0.265	
1	+4.20	550	-7.154D+20	3.209D+03	-1.006	-28.2	-9.937D-05	3.169D-05	2.844	3.7252D-02	3.1816D-02	6.9068D-02	0.252	
1	+4.40	550	-7.622D+20	3.365D+03	-1.005	-27.7	-9.598D-05	3.100D-05	2.861	3.9299D-02	3.1775D-02	7.1074D-02	0.240	
1	+4.60	550	-8.103D+20	3.522D+03	-1.005	-27.3	-9.279D-05	3.033D-05	2.878	4.1373D-02	3.1740D-02	7.3113D-02	0.228	
1	+4.80	550	-8.594D+20	3.681D+03	-1.005	-26.9	-8.977D-05	2.966D-05	2.894	4.3475D-02	3.1710D-02	7.5184D-02	0.217	
1	+5.00	550	-9.098D+20	3.840D+03	-1.005	-26.5	-8.692D-05	2.902D-05	2.909	4.5600D-02	3.1684D-02	7.7284D-02	0.206	
1	+5.20	550	-9.612D+20	4.001D+03	-1.004	-26.1	-8.423D-05	2.838D-05	2.923	4.7738D-02	3.1661D-02	7.9400D-02	0.197	
1	+5.40	550	-1.014D+21	4.163D+03	-1.004	-25.7	-8.167D-05	2.777D-05	2.938	4.9920D-02	3.1642D-02	8.1562D-02	0.187	
1	+5.60	550	-1.067D+21	4.326D+03	-1.004	-25.4	-7.925D-05	2.717D-05	2.951	5.2111D-02	3.1625D-02	8.3736D-02	0.178	
1	+5.80	550	-1.122D+21	4.490D+03	-1.004	-25.1	-7.696D-05	2.660D-05	2.963	5.4301D-02	3.1611D-02	8.5912D-02	0.170	
1	+6.00	550	-1.177D+21	4.656D+03	-1.004	-24.8	-7.476D-05	2.602D-05	2.976	5.6551D-02	3.1598D-02	8.8149D-02	0.162	
1	+6.20	550	-1.234D+21	4.822D+03	-1.003	-24.5	-7.269D-05	2.548D-05	2.988	5.8797D-02	3.1587D-02	9.0384D-02	0.155	
1	+6.40	550	-1.292D+21	4.989D+03	-1.003	-24.2	-7.071D-05	2.494D-05	2.999	6.1059D-02	3.1577D-02	9.2636D-02	0.148	
1	+6.60	550	-1.350D+21	5.156D+03	-1.003	-23.9	-6.883D-05	2.443D-05	3.010	6.3336D-02	3.1569D-02	9.4950D-02	0.142	
1	+6.80	550	-1.410D+21	5.325D+03	-1.003	-23.7	-6.704D-05	2.393D-05	3.020	6.5627D-02	3.1562D-02	9.7189D-02	0.135	
1	+7.00	550	-1.470D+21	5.495D+03	-1.003	-23.4	-6.533D-05	2.345D-05	3.029	6.7933D-02	3.1555D-02	9.9488D-02	0.130	
1	+7.20	550	-1.531D+21	5.665D+03	-1.003	-23.2	-6.370D-05	2.298D-05	3.039	7.0251D-02	3.1549D-02	1.0180D-01	0.124	
1	+7.40	550	-1.593D+21	5.836D+03	-1.003	-22.9	-6.213D-05	2.253D-05	3.047	7.2581D-02	3.1544D-02	1.0413D-01	0.119	
1	+7.60	550	-1.657D+21	6.007D+03	-1.002	-22.7	-6.064D-05	2.209D-05	3.056	7.4924D-02	3.1540D-02	1.0646D-01	0.114	
1	+7.80	550	-1.720D+21	6.180D+03	-1.002	-22.5	-5.921D-05	2.167D-05	3.064	7.7277D-02	3.1536D-02	1.0881D-01	0.110	
1	+8.00	550	-1.785D+21	6.353D+03	-1.002	-22.3	-5.785D-05	2.126D-05	3.072	7.9641D-02	3.1532D-02	1.1117D-01	0.105	

x	Eg eV	Atomic-Spacing		Debye K	Sound-Velocity cm/s	Num-Density cm-3	Mass-Density g-cm-3						
1	0.7612	5.5216D-08	489.4	4.536D+05	4.752D+22	3.621D+00							
	mc+	mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-	
1.399D+00	1.40D+00	2.938D+00	2.94D+00	2.740D+01	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00		
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT
1	-5.00	800	-7.858D+17	1.323D+01	-0.257	-27.0	-2.691D-04	9.581D-07	46.185	3.6278D-03	3.9990D-02	4.3617D-02	0.018
1	-4.80	800	-1.131D+18	1.459D+01	-0.424	-34.2	-3.438D-04	1.725D-06	37.493	3.2484D-03	3.9923D-02	4.3171D-02	0.032
1	-4.60	800	-1.521D+18	1.651D+01	-0.582	-39.4	-3.989D-04	2.627D-06	29.093	2.8511D-03	3.9846D-02	4.2697D-02	0.049
1	-4.40	800	-1.971D+18	1.903D+01	-0.714	-43.0	-4.362D-04	3.620D-06	21.884	2.4720D-03	3.9756D-02	4.2228D-02	0.069
1	-4.20	800	-2.500D+18	2.223D+01	-0.816	-45.3	-4.587D-04	4.679D-06	16.173	2.1346D-03	3.9653D-02	4.1788D-02	0.090
1	-4.00	800	-3.127D+18	2.622D+01	-0.890	-46.6	-4.700D-04	5.792D-06	11.889	1.8507D-03	3.9534D-02	4.1385D-02	0.112
1	-3.80	800	-3.877D+18	3.111D+01	-0.942	-47.2	-4.730D-04	6.960D-06	8.796	1.6246D-03	3.9400D-02	4.1025D-02	0.136
1	-3.60	800	-4.778D+18	3.705D+01	-0.976	-47.3	-4.701D-04	8.188D-06	6.620	1.4561D-03	3.9244D-02	4.0700D-02	0.161
1	-3.40	800	-5.866D+18	4.421D+01	-0.999	-47.0	-4.631D-04	9.484D-06	5.117	1.3430D-03	3.9067D-02	4.0410D-02	0.188
1	-3.20	800	-7.181D+18	5.280D+01	-1.012	-46.5	-4.534D-04	1.086D-05	4.092	1.2826D-03	3.8867D-02	4.0150D-02	0.216
1	-3.00	800	-8.772D+18	6.304D+01	-1.020	-45.8	-4.419D-04	1.231D-05	3.401	1.2727D-03	3.8642D-02	3.9915D-02	0.247
1	-2.80	800	-1.070D+19	7.521D+01	-1.024	-44.9	-4.291D-04	1.385D-05	2.939	1.3121D-03	3.8391D-02	3.9703D-02	0.279
1	-2.60	800	-1.303D+19	8.962D+01	-1.025	-44.0	-4.156D-04	1.548D-05	2.633	1.4006D-03	3.8112D-02	3.9512D-02	0.313
1	-2.40	800	-1.584D+19	1.066D+02	-1.025	-43.1	-4.017D-04	1.720D-05	2.432	1.5394D-03	3.7804D-02	3.9343D-02	0.350
1	-2.20	800	-1.923D+19	1.266D+02	-1.024	-42.1	-3.875D-04	1.900D-05	2.304	1.7307D-03	3.7467D-02	3.9198D-02	0.388
1	-2.00	800	-2.331D+19	1.499D+02	-1.023	-41.1	-3.732D-04	2.088D-05	2.223	1.9784D-03	3.7102D-02	3.9081D-02	0.427
1	-1.80	800	-2.821D+19	1.771D+02	-1.021	-40.0	-3.589D-04	2.282D-05	2.175	2.2873D-03	3.6710D-02	3.8979D-02	0.468
1	-1.60	800	-3.407D+19	2.087D+02	-1.019	-39.0	-3.447D-04	2.480D-05	2.150	2.6634D-03	3.6293D-02	3.8956D-02	0.509
1	-1.40	800	-4.106D+19	2.452D+02	-1.018	-37.9	-3.306D-04	2.680D-05	2.139	3.1140D-03	3.5854D-02	3.8968D-02	0.550
1	-1.20	800	-4.935D+19	2.871D+02	-1.016	-36.9	-3.167D-04	2.880D-05	2.140	3.6473D-03	3.5398D-02	3.9045D-02	0.590
1	-1.00	800	-5.914D+19	3.351D+02	-1.015	-35.9	-3.031D-04	3.077D-05	2.148	4.2721D-03	3.4928D-02	3.9200D-02	0.628
1	-0.80	800	-7.065D+19	3.896D+02	-1.013	-34.9	-2.896D-04	3.268D-05	2.161	4.9980D-03	3.4451D-02	3.9449D-02	0.663
1	-0.60	800	-8.408D+19	4.511D+02	-1.012	-33.9	-2.765D-04	3.450D-05	2.179	5.8343D-03	3.3973D-02	3.9808D-02	0.693
1	-0.40	800	-9.965D+19	5.202D+02	-1.011	-33.0	-2.637D-04	3.619D-05	2.199	6.7905D-03	3.3501D-02	4.0291D-02	0.718
1	-0.20	800	-1.176D+20	5.971D+02	-1.010	-32.0	-2.513D-04	3.772D-05	2.222	7.8757D-03	3.3039D-02	4.0914D-02	0.738
1	+0.00	800	-1.381D+20	6.822D+02	-1.010	-31.1	-2.394D-04	3.908D-05	2.246	9.0972D-03	3.2593D-02	4.1690D-02	0.750
1	+0.20	800	-1.613D+20	7.755D+02	-1.009	-30.3	-2.278D-04	4.025D-05	2.273	1.0462D-02	3.2169D-02	4.2630D-02	0.755
1	+0.40	800	-1.874D+20	8.770D+02	-1.008	-29.4	-2.168D-04	4.120D-05	2.300	1.1973D-02	3.1770D-02	4.3743D-02	0.754
1	+0.60	800	-2.166D+20	9.867D+02	-1.007	-28.6	-2.062D-04	4.195D-05	2.328	1.3635D-02	3.1399D-02	4.5034D-02	0.745
1	+0.80	800	-2.489D+20	1.104D+03	-1.007	-27.9	-1.961D-04	4.248D-05	2.357	1.5449D-02	3.1057D-02	4.6507D-02	0.731
1	+1.00	800	-2.843D+20	1.229D+03	-1.006	-27.2	-1.866D-04	4.280D-05	2.386	1.7410D-02	3.0747D-02	4.8157D-02	0.711
1	+1.20	800	-3.230D+20	1.361D+03	-1.006	-26.5	-1.776D-04	4.294D-05	2.415	1.9517D-02	3.0467D-02	4.9984D-02	0.687
1	+1.40	800	-3.649D+20	1.500D+03	-1.005	-25.8	-1.691D-04	4.289D-05	2.444	2.1767D-02	3.0217D-02	5.1984D-02	0.660
1	+1.60	800	-4.100D+20	1.645D+03	-1.005	-25.2	-1.611D-04	4.269D-05	2.474	2.4153D-02	2.9955D-02	5.4148D-02	0.631
1	+1.80	800	-4.582D+20	1.795D+03	-1.005	-24.6	-1.536D-04	4.236D-05	2.503	2.6669D-02	2.9800D-02	5.6470D-02	0.600
1	+2.00	800	-5.095D+20	1.951D+03	-1.004	-24.0	-1.466D-04	4.190D-05	2.531	2.9311D-02	2.9630D-02	5.8941D-02	0.569
1	+2.20	800	-5.639D+20	2.111D+03	-1.004	-23.5	-1.400D-04	4.135D-05	2.559	3.2068D-02	2.9481D-02	6.1550D-02	0.537
1	+2.40	800	-6.212D+20	2.275D+03	-1.004	-23.0	-1.338D-04	4.072D-05	2.587	3.4936D-02	2.9353D-02	6.4289D-02	0.507
1	+2.60	800	-6.813D+20	2.443D+03	-1.004	-22.5	-1.280D-04	4.003D-05	2.613	3.7907D-02	2.9243D-02	6.7149D-02	0.477
1	+2.80	800	-7.442D+20	2.615D+03	-1.003	-22.0	-1.226D-04	3.929D-05	2.639	4.0974D-02	2.9148D-02	7.0121D-02	0.448
1	+3.00	800	-8.098D+20	2.790D+03	-1.003	-21.6	-1.175D-04	3.851D-05	2.665	4.4131D-02	2.9066D-02	7.3197D-02	0.421
1	+3.20	800	-8.780D+20	2.967D+03	-1.003	-21.2	-1.127D-04	3.771D-05	2.689	4.7361D-02	2.8997D-02	7.6357D-02	0.395
1	+3.40	800	-9.487D+20	3.148D+03	-1.003	-20.8	-1.083D-04	3.690D-05	2.713	5.0690D-02	2.8937D-02	7.9627D-02	0.371
1	+3.60	800	-1.022D+21	3.330D+03	-1.003	-20.4	-1.041D-04	3.607D-05	2.736	5.4082D-02	2.8887D-02	8.2969D-02	0.348
1	+3.80	800	-1.097D+21	3.515D+03	-1.002	-20.0	-1.001D-04	3.525D-05	2.758	5.7541D-02	2.8844D-02	8.6385D-02	0.326
1	+4.00	800	-1.175D+21	3.702D+03	-1.002	-19.7	-9.645D-05	3.443D-05	2.779	6.1063D-02	2.8807D-02	8.9870D-02	0.307
1	+4.20	800	-1.255D+21	3.890D+03	-1.002	-19.4	-9.297D-05	3.363D-05	2.799	6.4643D-02	2.8776D-02	9.3419D-02	0.288
1	+4.40	800	-1.337D+21	4.081D+03	-1.002	-19.1	-8.970D-05	3.283D-05	2.819	6.8277D-02	2.8750D-02	9.7027D-02	0.271
1	+4.60	800	-1.421D+21	4.272D+03	-1.002	-18.8	-8.661D-05	3.205D-05	2.837	7.1962D-02	2.8727D-02	1.0069D-01	0.255
1	+4.80	800	-1.508D+21	4.466D+03	-1.002	-18.5	-8.370D-05	3.129D-05	2.855	7.5693D-02	2.8708D-02	1.0440D-01	0.240
1	+5.00	800	-1.596D+21	4.660D+03	-1.002	-18.3	-8.095D-05	3.054D-05	2.872	7.9468D-02	2.8692D-02	1.0816D-01	0.226
1	+5.20	800	-1.686D+21	4.856D+03	-1.001	-18.0	-7.836D-05	2.982D-05	2.889	8.3283D-02	2.8678D-02	1.1196D-01	0.213
1	+5.40	800	-1.778D+21	5.053D+03	-1.001	-17.8	-7.590D-05	2.911D-05	2.905	8.7135D-02	2.8666D-02	1.1580D-01	0.201
1	+5.60	800	-1.872D+21	5.252D+03	-1.001	-17.5	-7.358D-05	2.843D-05	2.920	9.1022D-02	2.8656D-02	1.1968D-01	0.190
1	+5.80	800	-1.968D+21	5.451D+03	-1.001	-17.3	-7.137D-05	2.777D-05	2.934	9.4941D-02	2.8647D-02	1.2359D-01	0.180
1	+6.00	800	-2.066D+21	5.651D+03	-1.001	-17.1	-6.928D-05	2.712D-05	2.948	9.8891D-02	2.8639D-02	1.2753D-01	0.170
1	+6.20	800	-2.165D+21	5.852D+03	-1.001	-16.9	-6.730D-05	2.650D-05	2.961	1.0287D-01	2.8633D-02	1.3150D-01	0.161
1	+6.40	800	-2.266D+21	6.055D+03	-1.001	-16.7	-6.541D-05	2.590D-05	2.973	1.0687D-01	2.8627D-02	1.3550D-01	0.153
1	+6.60	800	-2.369D+21	6.258D+03	-1.001	-16.5	-6.361D-05	2.532D-05	2.985	1.1090D-01	2.8622D-02	1.3952D-01	0.145
1	+6.80	800	-2.473D+21	6.462D+03	-1.001	-16.3	-6.191D-05	2.476D-05	2.997	1.1495D-01	2.8618D-02	1.4357D-01	0.138
1	+7.00	800	-2.579D+21	6.666D+03	-1.001	-16.1	-6.028D-05	2.422D-05	3.008	1.1902D-01	2.8614D-02	1.4764D-01	0.131
1	+7.20	800	-2.686D+21	6.872D+03	-1.001	-16.0	-5.872D-05	2.370D-05	3.018	1.2311D-01	2.8611D-02	1.5172D-01	0.125
1	+7.40	800	-2.795D+21	7.078D+03	-1.001	-15.8	-5.724D-05	2.319D-05	3.028	1.2722D-01	2.8608D-02	1.5583D-01	0.119
1	+7.60	800	-2.906D+21	7.284D+03	-1.001	-15.7	-5.583D-05	2.270D-05	3.037	1.3135D-01	2.8606D-02	1.5995D-01	0.114
1	+7.80	800	-3.018D+21	7.492D+03	-1.001	-15.5	-5.447D-05	2.223D-05	3.046	1.3549D-01	2.8604D-02	1.6409D-01	0.108
1	+8.00	800	-3.132D+21	7.700D+03	-1.001	-15.4	-5.318D-05	2.178D-05	3.055	1.3967D-01	2.8602D-02	1.6827D-01	0.104

	x	Eg eV	Atomic-Spacing cm	Debye K	Sound-Velocity cm/s	Num-Density cm-3	Mass-Density g-cm-3						
	mc+	mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-	
	1.399D+00	1.40D+00	2.938D+00	2.94D+00	2.740D+01	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00	
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT
1	-5.00	1050	+1.735D+19	1.006D+02	+0.733	+26.5	+3.303D-04	1.098D-05	X13.044	1.0225D-02	3.4500D-02	4.4725D-02	0.258
1	-4.80	1050	+1.354D+19	8.786D+01	+0.613	+24.8	+3.076D-04	8.314D-06	X17.183	1.1763D-02	3.4450D-02	4.6213D-02	0.189
1	-4.60	1050	+1.024D+19	7.806D+01	+0.466	+22.2	+2.717D-04	5.762D-06	X22.122	1.3456D-02	3.4400D-02	4.7856D-02	0.126
1	-4.40	1050	+7.324D+18	7.101D+01	+0.303	+18.4	+2.207D-04	3.460D-06	X27.410	1.5166D-02	3.4343D-02	4.9509D-02	0.073
1	-4.20	1050	+4.687D+18	6.662D+01	+0.150	+13.3	+1.549D-04	1.599D-06	X32.190	1.6708D-02	3.4276D-02	5.0984D-02	0.033
1	-4.00	1050	+2.228D+18	6.493D+01	+0.038	+6.9	+7.746D-05	3.896D-07	X35.350	1.7884D-02	3.4199D-02	5.2083D-02	0.008
1	-3.80	1050	-1.462D+17	6.609D+01	-0.000	-0.5	-5.100D-06	1.719D-09	X35.976	1.8525D-02	3.4113D-02	5.2638D-02	0.000
1	-3.60	1050	-2.526D+18	6.498D+01	-0.049	-7.8	-8.750D-05	4.975D-07	X35.084	1.7764D-02	3.4011D-02	5.1775D-02	0.010
1	-3.40	1050	-5.002D+18	6.702D+01	-0.167	-14.0	-1.638D-04	1.798D-06	X31.663	1.6533D-02	3.3894D-02	5.0427D-02	0.037
1	-3.20	1050	-7.668D+18	7.174D+01	-0.324	-18.9	-2.279D-04	3.725D-06	X26.762	1.4959D-02	3.3761D-02	4.8720D-02	0.080
1	-3.00	1050	-1.063D+19	7.913D+01	-0.485	-22.6	-2.769D-04	6.068D-06	X21.479	1.3242D-02	3.3611D-02	4.6852D-02	0.136
1	-2.80	1050	-1.398D+19	8.928D+01	-0.630	-25.1	-3.111D-04	8.640D-06	X16.622	1.1562D-02	3.3442D-02	4.5004D-02	0.202
1	-2.60	1050	-1.787D+19	1.024D+02	-0.746	-26.7	-3.323D-04	1.131D-05	X12.596	1.0050D-02	3.3252D-02	4.3302D-02	0.274
1	-2.40	1050	-2.241D+19	1.188D+02	-0.833	-27.6	-3.432D-04	1.399D-05	9.485	8.7787D-03	3.3042D-02	4.1821D-02	0.351
1	-2.20	1050	-2.776D+19	1.388D+02	-0.895	-27.9	-3.463D-04	1.664D-05	7.196	7.7806D-03	3.2811D-02	4.0591D-02	0.431
1	-2.00	1050	-3.411D+19	1.628D+02	-0.938	-28.0	-3.439D-04	1.925D-05	5.567	7.0615D-03	3.2557D-02	3.9618D-02	0.510
1	-1.80	1050	-4.164D+19	1.914D+02	-0.966	-27.7	-3.376D-04	2.181D-05	4.435	6.6128D-03	3.2282D-02	3.8895D-02	0.589
1	-1.60	1050	-5.060D+19	2.250D+02	-0.985	-27.3	-3.288D-04	2.431D-05	3.664	6.4217D-03	3.1987D-02	3.8409D-02	0.665
1	-1.40	1050	-6.122D+19	2.642D+02	-0.997	-26.8	-3.182D-04	2.675D-05	3.145	6.4751D-03	3.1674D-02	3.8149D-02	0.736
1	-1.20	1050	-7.378D+19	3.097D+02	-1.004	-26.3	-3.066D-04	2.912D-05	2.802	6.7623D-03	3.1346D-02	3.8108D-02	0.802
1	-1.00	1050	-8.858D+19	3.621D+02	-1.008	-25.7	-2.945D-04	3.140D-05	2.579	7.2765D-03	3.1005D-02	3.8282D-02	0.861
1	-0.80	1050	-1.059D+20	4.220D+02	-1.010	-25.1	-2.820D-04	3.356D-05	2.437	8.0140D-03	3.0656D-02	3.8670D-02	0.911
1	-0.60	1050	-1.262D+20	4.899D+02	-1.011	-24.5	-2.695D-04	3.559D-05	2.351	8.9743D-03	3.0304D-02	3.9278D-02	0.951
1	-0.40	1050	-1.496D+20	5.664D+02	-1.011	-23.9	-2.572D-04	3.746D-05	2.302	1.0158D-02	2.9952D-02	4.0111D-02	0.980
1	-0.20	1050	-1.766D+20	6.519D+02	-1.010	-23.3	-2.450D-04	3.914D-05	2.278	1.1571D-02	2.9607D-02	4.1178D-02	0.998
1	+0.00	1050	-2.075D+20	7.466D+02	-1.010	-22.7	-2.332D-04	4.061D-05	2.271	1.3214D-02	2.9272D-02	4.2486D-02	1.004
1	+0.20	1050	-2.424D+20	8.508D+02	-1.009	-22.1	-2.218D-04	4.186D-05	2.277	1.5092D-02	2.8952D-02	4.4044D-02	0.998
1	+0.40	1050	-2.817D+20	9.644D+02	-1.008	-21.5	-2.108D-04	4.287D-05	2.290	1.7206D-02	2.8650D-02	4.5856D-02	0.982
1	+0.60	1050	-3.256D+20	1.087D+03	-1.008	-21.0	-2.004D-04	4.364D-05	2.308	1.9557D-02	2.8368D-02	4.7924D-02	0.956
1	+0.80	1050	-3.741D+20	1.219D+03	-1.007	-20.5	-1.904D-04	4.418D-05	2.331	2.2142D-02	2.8108D-02	5.0250D-02	0.923
1	+1.00	1050	-4.275D+20	1.360D+03	-1.006	-20.0	-1.809D-04	4.450D-05	2.356	2.4961D-02	2.7872D-02	5.2833D-02	0.884
1	+1.20	1050	-4.856D+20	1.508D+03	-1.006	-19.5	-1.720D-04	4.460D-05	2.383	2.8002D-02	2.7658D-02	5.5660D-02	0.841
1	+1.40	1050	-5.487D+20	1.664D+03	-1.005	-19.0	-1.635D-04	4.451D-05	2.411	3.1260D-02	2.7468D-02	5.8728D-02	0.796
1	+1.60	1050	-6.165D+20	1.827D+03	-1.005	-18.6	-1.556D-04	4.425D-05	2.440	3.4730D-02	2.7300D-02	6.2029D-02	0.749
1	+1.80	1050	-6.890D+20	1.997D+03	-1.004	-18.2	-1.482D-04	4.385D-05	2.468	3.8396D-02	2.7152D-02	6.5548D-02	0.702
1	+2.00	1050	-7.662D+20	2.172D+03	-1.004	-17.8	-1.412D-04	4.331D-05	2.497	4.2257D-02	2.7023D-02	6.9280D-02	0.656
1	+2.20	1050	-8.479D+20	2.352D+03	-1.004	-17.4	-1.347D-04	4.268D-05	2.526	4.6294D-02	2.6911D-02	7.3205D-02	0.612
1	+2.40	1050	-9.340D+20	2.537D+03	-1.003	-17.0	-1.286D-04	4.196D-05	2.554	5.0499D-02	2.6814D-02	7.7313D-02	0.570
1	+2.60	1050	-1.024D+21	2.727D+03	-1.003	-16.7	-1.229D-04	4.118D-05	2.582	5.4860D-02	2.6731D-02	8.1592D-02	0.530
1	+2.80	1050	-1.119D+21	2.920D+03	-1.003	-16.3	-1.175D-04	4.034D-05	2.609	5.9369D-02	2.6660D-02	8.6029D-02	0.492
1	+3.00	1050	-1.218D+21	3.117D+03	-1.002	-16.0	-1.125D-04	3.947D-05	2.636	6.4013D-02	2.6600D-02	9.0613D-02	0.457
1	+3.20	1050	-1.320D+21	3.317D+03	-1.002	-15.7	-1.079D-04	3.858D-05	2.661	6.8774D-02	2.6549D-02	9.5322D-02	0.425
1	+3.40	1050	-1.426D+21	3.519D+03	-1.002	-15.4	-1.035D-04	3.768D-05	2.687	7.3674D-02	2.6505D-02	1.0018D-01	0.395
1	+3.60	1050	-1.536D+21	3.725D+03	-1.002	-15.2	-9.935D-05	3.677D-05	2.712	7.8701D-02	2.6468D-02	1.0517D-01	0.367
1	+3.80	1050	-1.650D+21	3.932D+03	-1.002	-14.9	-9.551D-05	3.587D-05	2.734	8.3772D-02	2.6436D-02	1.1021D-01	0.342
1	+4.00	1050	-1.767D+21	4.142D+03	-1.002	-14.7	-9.189D-05	3.497D-05	2.757	8.8965D-02	2.6410D-02	1.1537D-01	0.318
1	+4.20	1050	-1.887D+21	4.353D+03	-1.001	-14.4	-8.849D-05	3.409D-05	2.778	9.4243D-02	2.6387D-02	1.2063D-01	0.297
1	+4.40	1050	-2.011D+21	4.567D+03	-1.001	-14.2	-8.529D-05	3.322D-05	2.799	9.9601D-02	2.6368D-02	1.2597D-01	0.277
1	+4.60	1050	-2.137D+21	4.781D+03	-1.001	-14.0	-8.228D-05	3.237D-05	2.819	1.0503D-01	2.6352D-02	1.3138D-01	0.259
1	+4.80	1050	-2.267D+21	4.998D+03	-1.001	-13.8	-7.944D-05	3.154D-05	2.838	1.1053D-01	2.6339D-02	1.3687D-01	0.242
1	+5.00	1050	-2.400D+21	5.216D+03	-1.001	-13.6	-7.677D-05	3.074D-05	2.857	1.1609D-01	2.6327D-02	1.4242D-01	0.227
1	+5.20	1050	-2.535D+21	5.435D+03	-1.001	-13.4	-7.425D-05	2.996D-05	2.874	1.2171D-01	2.6317D-02	1.4802D-01	0.213
1	+5.40	1050	-2.674D+21	5.655D+03	-1.001	-13.2	-7.186D-05	2.920D-05	2.891	1.2738D-01	2.6309D-02	1.5369D-01	0.200
1	+5.60	1050	-2.815D+21	5.876D+03	-1.001	-13.0	-6.959D-05	2.846D-05	2.909	1.3317D-01	2.6302D-02	1.5947D-01	0.187
1	+5.80	1050	-2.959D+21	6.098D+03	-1.001	-12.9	-6.747D-05	2.776D-05	2.922	1.3886D-01	2.6296D-02	1.6515D-01	0.176
1	+6.00	1050	-3.106D+21	6.321D+03	-1.001	-12.7	-6.545D-05	2.708D-05	2.937	1.4466D-01	2.6291D-02	1.7095D-01	0.166
1	+6.20	1050	-3.255D+21	6.546D+03	-1.001	-12.6	-6.353D-05	2.642D-05	2.951	1.5050D-01	2.6286D-02	1.7679D-01	0.157
1	+6.40	1050	-3.407D+21	6.771D+03	-1.001	-12.4	-6.171D-05	2.578D-05	2.964	1.5638D-01	2.6282D-02	1.8266D-01	0.148
1	+6.60	1050	-3.561D+21	6.996D+03	-1.001	-12.3	-5.998D-05	2.517D-05	2.977	1.6229D-01	2.6279D-02	1.8856D-01	0.140
1	+6.80	1050	-3.718D+21	7.223D+03	-1.001	-12.1	-5.833D-05	2.457D-05	2.989	1.6822D-01	2.6276D-02	1.9450D-01	0.133
1	+7.00	1050	-3.878D+21	7.450D+03	-1.001	-12.0	-5.676D-05	2.400D-05	3.001	1.7419D-01	2.6274D-02	2.0046D-01	0.126
1	+7.20	1050	-4.039D+21	7.678D+03	-1.000	-11.9	-5.527D-05	2.345D-05	3.012	1.8017D-01	2.6272D-02	2.0645D-01	0.119
1	+7.40	1050	-4.203D+21	7.907D+03	-1.000	-11.7	-5.385D-05	2.292D-05	3.022	1.8618D-01	2.6270D-02	2.1245D-01	0.113
1	+7.60	1050	-4.370D+21	8.136D+03	-1.000	-11.6	-5.249D-05	2.241D-05	3.032	1.9222D-01	2.6268D-02	2.1849D-01	0.108
1	+7.80	1050	-4.538D+21	8.365D+03	-1.000	-11.5	-5.119D-05	2.192D-05	3.042	1.9826D-01	2.6267D-02	2.2452D-01	0.103
1	+8.00	1050	-4.709D+21	8.596D+03	-1.000	-11.4	-4.995D-05	2.145D-05	3.051	2.0434D-01	2.6265D-02	2.3060D-01	0.098

x	Eg eV	Atomic-Spacing cm	Debye K	Sound-Velocity cm/s	Num-Density cm ⁻³	Mass-Density g-cm ⁻³								
1	0.400	5.5216D-08	489.4	4.536D+05	4.752D+22	3.621D+00								
	mc+	mc-	dfpot+	dfpot-	diel+	diel-	dis+	dis-	gamma+	gamma-	beta+	beta-		
1.399D+00	1.40D+00	2.938D+00	2.94D+00	2.740D+01	2.74D+01	0.000D+00	0.00D+00	9.100D-01	9.10D-01	2.000D+00	2.00D+00			
PTR	CHM	TEMPER	NDOP	CON	HFACT	HMOB	ALPHA	PFACTOR	LOR	KEL	KLAT	KTOT	ZT	
1	-5.00	1300	+1.840D+20	5.545D+02	+0.978	+18.4	+2.523D-04	3.529D-05	3.274	1.7516D-02	3.0659D-02	4.8175D-02	0.952	
1	-4.80	1300	+1.539D+20	4.800D+02	+0.960	+18.7	+2.607D-04	3.263D-05	3.790	1.7550D-02	3.0629D-02	4.8178D-02	0.880	
1	-4.60	1300	+1.279D+20	4.148D+02	+0.932	+18.9	+2.674D-04	2.965D-05	4.549	1.8203D-02	3.0593D-02	4.8796D-02	0.790	
1	-4.40	1300	+1.054D+20	3.587D+02	+0.891	+18.9	+2.710D-04	2.635D-05	5.641	1.9519D-02	3.0552D-02	5.0071D-02	0.684	
1	-4.20	1300	+8.602D+19	3.109D+02	+0.831	+18.7	+2.704D-04	2.274D-05	7.178	2.1530D-02	3.0500D-02	5.2031D-02	0.568	
1	-4.00	1300	+6.929D+19	2.711D+02	+0.747	+18.2	+2.637D-04	1.886D-05	9.267	2.4237D-02	3.0450D-02	5.4687D-02	0.448	
1	-3.80	1300	+5.477D+19	2.388D+02	+0.635	+17.3	+2.488D-04	1.478D-05	11.974	2.7581D-02	3.0386D-02	5.7967D-02	0.331	
1	-3.60	1300	+4.205D+19	2.135D+02	+0.496	+15.7	+2.235D-04	1.066D-05	15.248	3.1407D-02	3.0313D-02	6.1720D-02	0.225	
1	-3.40	1300	+3.075D+19	1.951D+02	+0.338	+13.4	+1.862D-04	6.762D-06	18.822	3.5432D-02	3.0229D-02	6.5661D-02	0.134	
1	-3.20	1300	+2.050D+19	1.836D+02	+0.182	+10.2	+1.366D-04	3.428D-06	22.157	3.9245D-02	3.0134D-02	6.9378D-02	0.064	
1	-3.00	1300	+1.096D+19	1.793D+02	+0.059	+6.0	+7.717D-05	1.068D-06	24.504	4.2382D-02	3.0025D-02	7.2407D-02	0.019	
1	-2.80	1300	+1.813D+18	1.837D+02	+0.002	+1.1	+1.279D-05	3.005D-08	25.130	4.4523D-02	2.9903D-02	7.4426D-02	0.001	
1	-2.60	1300	-7.275D+18	1.798D+02	-0.027	-4.2	-5.162D-05	4.791D-07	24.998	4.3362D-02	2.9765D-02	7.3127D-02	0.009	
1	-2.40	1300	-1.662D+19	1.810D+02	-0.127	-8.6	-1.138D-04	2.345D-06	23.258	4.0605D-02	2.9611D-02	7.0216D-02	0.043	
1	-2.20	1300	-2.654D+19	1.897D+02	-0.273	-12.2	-1.677D-04	5.338D-06	20.224	3.7009D-02	2.9440D-02	6.6449D-02	0.104	
1	-2.00	1300	-3.738D+19	2.054D+02	-0.434	-14.9	-2.100D-04	9.059D-06	16.666	3.3014D-02	2.9253D-02	6.2267D-02	0.189	
1	-1.80	1300	-4.949D+19	2.278D+02	-0.583	-16.7	-2.400D-04	1.313D-05	13.225	2.9067D-02	2.9048D-02	5.8115D-02	0.294	
1	-1.60	1300	-6.324D+19	2.573D+02	-0.706	-17.9	-2.589D-04	1.724D-05	10.275	2.5505D-02	2.8827D-02	5.4331D-02	0.413	
1	-1.40	1300	-7.904D+19	2.941D+02	-0.800	-18.6	-2.686D-04	2.122D-05	7.942	2.2531D-02	2.8590D-02	5.1121D-02	0.540	
1	-1.20	1300	-9.730D+19	3.386D+02	-0.869	-18.9	-2.714D-04	2.494D-05	6.197	2.0239D-02	2.8341D-02	4.8580D-02	0.667	
1	-1.00	1300	-1.185D+20	3.913D+02	-0.917	-18.9	-2.693D-04	2.837D-05	4.940	1.8648D-02	2.8081D-02	4.6728D-02	0.789	
1	-0.80	1300	-1.430D+20	4.528D+02	-0.950	-18.8	-2.637D-04	3.148D-05	4.060	1.7734D-02	2.7812D-02	4.5546D-02	0.898	
1	-0.60	1300	-1.715D+20	5.235D+02	-0.972	-18.5	-2.558D-04	3.426D-05	3.457	1.7458D-02	2.7540D-02	4.4998D-02	0.990	
1	-0.40	1300	-2.042D+20	6.040D+02	-0.986	-18.2	-2.466D-04	3.673D-05	3.050	1.7774D-02	2.7266D-02	4.5041D-02	1.060	
1	-0.20	1300	-2.417D+20	6.946D+02	-0.995	-17.8	-2.365D-04	3.887D-05	2.782	1.8640D-02	2.6997D-02	4.5636D-02	1.107	
1	+0.00	1300	-2.845D+20	7.955D+02	-1.000	-17.5	-2.261D-04	4.069D-05	2.608	2.0016D-02	2.6734D-02	4.6750D-02	1.131	
1	+0.20	1300	-3.329D+20	9.069D+02	-1.003	-17.1	-2.157D-04	4.219D-05	2.500	2.1870D-02	2.6482D-02	4.8352D-02	1.134	
1	+0.40	1300	-3.873D+20	1.029D+03	-1.005	-16.7	-2.054D-04	4.339D-05	2.436	2.4172D-02	2.6243D-02	5.0415D-02	1.119	
1	+0.60	1300	-4.478D+20	1.161D+03	-1.006	-16.3	-1.953D-04	4.428D-05	2.402	2.6896D-02	2.6020D-02	5.2916D-02	1.088	
1	+0.80	1300	-5.148D+20	1.303D+03	-1.007	-15.9	-1.856D-04	4.490D-05	2.388	3.0019D-02	2.5815D-02	5.5834D-02	1.045	
1	+1.00	1300	-5.884D+20	1.454D+03	-1.007	-15.5	-1.764D-04	4.525D-05	2.390	3.3523D-02	2.5627D-02	5.9150D-02	0.994	
1	+1.20	1300	-6.686D+20	1.615D+03	-1.006	-15.2	-1.676D-04	4.536D-05	2.400	3.7376D-02	2.5458D-02	6.2834D-02	0.938	
1	+1.40	1300	-7.555D+20	1.783D+03	-1.006	-14.8	-1.593D-04	4.525D-05	2.416	4.1563D-02	2.5307D-02	6.6870D-02	0.880	
1	+1.60	1300	-8.490D+20	1.959D+03	-1.006	-14.5	-1.515D-04	4.496D-05	2.437	4.6067D-02	2.5174D-02	7.1241D-02	0.820	
1	+1.80	1300	-9.489D+20	2.142D+03	-1.005	-14.2	-1.441D-04	4.451D-05	2.461	5.0866D-02	2.5057D-02	7.5922D-02	0.762	
1	+2.00	1300	-1.055D+21	2.332D+03	-1.005	-13.9	-1.373D-04	4.392D-05	2.487	5.5940D-02	2.4955D-02	8.0895D-02	0.706	
1	+2.20	1300	-1.168D+21	2.527D+03	-1.005	-13.6	-1.308D-04	4.322D-05	2.514	6.1271D-02	2.4866D-02	8.6137D-02	0.652	
1	+2.40	1300	-1.287D+21	2.727D+03	-1.004	-13.3	-1.248D-04	4.244D-05	2.541	6.6841D-02	2.4790D-02	9.1631D-02	0.602	
1	+2.60	1300	-1.411D+21	2.931D+03	-1.004	-13.0	-1.191D-04	4.159D-05	2.569	7.2632D-02	2.4725D-02	9.7357D-02	0.555	
1	+2.80	1300	-1.542D+21	3.140D+03	-1.004	-12.8	-1.138D-04	4.068D-05	2.596	7.8629D-02	2.4670D-02	1.0330D-01	0.512	
1	+3.00	1300	-1.677D+21	3.353D+03	-1.003	-12.5	-1.089D-04	3.975D-05	2.623	8.4815D-02	2.4622D-02	1.0944D-01	0.472	
1	+3.20	1300	-1.819D+21	3.568D+03	-1.003	-12.3	-1.043D-04	3.879D-05	2.649	9.1165D-02	2.4582D-02	1.1575D-01	0.436	
1	+3.40	1300	-1.965D+21	3.787D+03	-1.003	-12.1	-9.994D-05	3.782D-05	2.674	9.7699D-02	2.4548D-02	1.2225D-01	0.402	
1	+3.60	1300	-2.117D+21	4.008D+03	-1.003	-11.9	-9.588D-05	3.685D-05	2.700	1.0440D-01	2.4519D-02	1.2892D-01	0.372	
1	+3.80	1300	-2.273D+21	4.232D+03	-1.002	-11.7	-9.209D-05	3.589D-05	2.724	1.1118D-01	2.4495D-02	1.3567D-01	0.344	
1	+4.00	1300	-2.434D+21	4.457D+03	-1.002	-11.5	-8.854D-05	3.494D-05	2.746	1.1808D-01	2.4475D-02	1.4256D-01	0.319	
1	+4.20	1300	-2.600D+21	4.685D+03	-1.002	-11.3	-8.519D-05	3.400D-05	2.769	1.2516D-01	2.4457D-02	1.4962D-01	0.295	
1	+4.40	1300	-2.770D+21	4.914D+03	-1.002	-11.1	-8.205D-05	3.308D-05	2.791	1.3231D-01	2.4443D-02	1.5675D-01	0.274	
1	+4.60	1300	-2.944D+21	5.145D+03	-1.002	-10.9	-7.910D-05	3.219D-05	2.812	1.3956D-01	2.4430D-02	1.6399D-01	0.255	
1	+4.80	1300	-3.123D+21	5.378D+03	-1.002	-10.8	-7.632D-05	3.132D-05	2.832	1.4690D-01	2.4420D-02	1.7132D-01	0.238	
1	+5.00	1300	-3.306D+21	5.612D+03	-1.002	-10.6	-7.370D-05	3.048D-05	2.851	1.5431D-01	2.4411D-02	1.7873D-01	0.222	
1	+5.20	1300	-3.493D+21	5.847D+03	-1.002	-10.5	-7.123D-05	2.966D-05	2.869	1.6181D-01	2.4404D-02	1.8621D-01	0.207	
1	+5.40	1300	-3.684D+21	6.083D+03	-1.001	-10.3	-6.890D-05	2.888D-05	2.886	1.6936D-01	2.4398D-02	1.9376D-01	0.194	
1	+5.60	1300	-3.878D+21	6.320D+03	-1.001	-10.2	-6.670D-05	2.812D-05	2.903	1.7698D-01	2.4392D-02	2.0137D-01	0.182	
1	+5.80	1300	-4.077D+21	6.558D+03	-1.001	-10.1	-6.462D-05	2.738D-05	2.919	1.8465D-01	2.4388D-02	2.0904D-01	0.170	
1	+6.00	1300	-4.279D+21	6.797D+03	-1.001	-9.9	-6.265D-05	2.667D-05	2.934	1.9238D-01	2.4384D-02	2.1676D-01	0.160	
1	+6.20	1300	-4.484D+21	7.036D+03	-1.001	-9.8	-6.078D-05	2.599D-05	2.949	2.0015D-01	2.4380D-02	2.2453D-01	0.150	
1	+6.40	1300	-4.694D+21	7.277D+03	-1.001	-9.7	-5.901D-05	2.534D-05	2.962	2.0796D-01	2.4378D-02	2.3234D-01	0.142	
1	+6.60	1300	-4.906D+21	7.518D+03	-1.001	-9.6	-5.733D-05	2.471D-05	2.976	2.1581D-01	2.4375D-02	2.4018D-01	0.134	
1	+6.80	1300	-5.122D+21	7.760D+03	-1.001	-9.5	-5.573D-05	2.410D-05	2.988	2.2369D-01	2.4373D-02	2.4806D-01	0.126	
1	+7.00	1300	-5.342D+21	8.003D+03	-1.001	-9.4	-5.421D-05	2.352D-05	3.000	2.3161D-01	2.4371D-02	2.5598D-01	0.119	
1	+7.20	1300	-5.565D+21	8.246D+03	-1.001	-9.3	-5.276D-05	2.295D-05	3.011	2.3955D-01	2.4370D-02	2.6392D-01	0.113	
1	+7.40	1300	-5.791D+21	8.490D+03	-1.001	-9.2	-5.138D-05	2.242D-05	3.022	2.4752D-01	2.4368D-02	2.7189D-01	0.107	
1	+7.60	1300	-6.020D+21	8.734D+03	-1.001	-9.1	-5.007D-05	2.190D-05	3.033	2.5551D-01	2.4367D-02	2.7988D-01	0.102	
1	+7.80	1300	-6.252D+21	8.979D+03	-1.001	-9.0	-4.882D-05	2.140D-05	3.043	2.6357D-01	2.4366D-02	2.8793D-01	0.097	
1	+8.00	1300	-6.487D+21	9.224D+03	-1.001	-8.9	-4.762D-05	2.092D-05	3.052	2.7156D-01	2.4365D-02	2.9592D-01	0.092	