

Standard Solar Model (BP2004) This is astro-ph/0402114 (Phys. Rev. Lett. 92, Number 12, 121301, 2004)

See: <http://www.sns.ias.edu/%7Ejnb/>

Columns in the Standard Model table (below) represent:

- 1) Mass fraction in units of the solar mass
- 2) Radius of the zone in units of one solar radius
- 3) Temperature in units of deg (K)
- 4) Density in units of g/cm<sup>3</sup>
- 5) Pressure in units of dyn/cm<sup>2</sup>
- 6) Luminosity fraction in units of the solar luminosity
- 7) X(^1H): the hydrogen mass fraction
- 8) X(^4He): the helium 4 mass fraction
- 9) X(^3He): the helium 3 mass fraction
- 10) X(^12C): the carbon 12 mass fraction
- 11) X(^14N): the nitrogen 14 mass fraction
- 12) X(^16O): the oxygen 16 mass fraction

The Table begins here.

M/Msun	R/Rsun	T	Rho	P	L/Lsun	X	Y	He3	C12	N14	O16
0.0000298	0.00649	1.570e+07	1.531e+02	2.351e+17	0.00027	0.33984	0.64034	7.30e-06	2.41e-05	5.47e-03	8.65e-03
0.0000312	0.00659	1.570e+07	1.531e+02	2.350e+17	0.00028	0.33989	0.64030	7.30e-06	2.41e-05	5.47e-03	8.65e-03
0.0000326	0.00670	1.570e+07	1.531e+02	2.350e+17	0.00029	0.33993	0.64026	7.31e-06	2.41e-05	5.47e-03	8.65e-03
0.0000342	0.00680	1.570e+07	1.531e+02	2.350e+17	0.00031	0.33997	0.64021	7.31e-06	2.41e-05	5.47e-03	8.65e-03
0.0000358	0.00690	1.570e+07	1.531e+02	2.350e+17	0.00032	0.34002	0.64017	7.31e-06	2.41e-05	5.47e-03	8.65e-03
0.0000374	0.00701	1.570e+07	1.531e+02	2.350e+17	0.00034	0.34007	0.64012	7.32e-06	2.41e-05	5.47e-03	8.65e-03
0.0000392	0.00712	1.570e+07	1.530e+02	2.349e+17	0.00035	0.34012	0.64007	7.32e-06	2.41e-05	5.47e-03	8.65e-03
0.0000410	0.00723	1.570e+07	1.530e+02	2.349e+17	0.00037	0.34017	0.64002	7.32e-06	2.41e-05	5.47e-03	8.65e-03

0.0000429	0.00734	1.570e+07	1.530e+02	2.349e+17	0.00038	0.34022	0.63997	7.33e-06	2.41e-05	5.47e-03	8.65e-03
0.0000449	0.00745	1.570e+07	1.530e+02	2.349e+17	0.00040	0.34028	0.63991	7.33e-06	2.41e-05	5.47e-03	8.65e-03
0.0000470	0.00756	1.570e+07	1.530e+02	2.348e+17	0.00042	0.34033	0.63986	7.33e-06	2.41e-05	5.47e-03	8.65e-03
0.0000492	0.00768	1.570e+07	1.529e+02	2.348e+17	0.00044	0.34039	0.63980	7.34e-06	2.41e-05	5.47e-03	8.65e-03
0.0000515	0.00780	1.570e+07	1.529e+02	2.348e+17	0.00046	0.34045	0.63974	7.34e-06	2.41e-05	5.47e-03	8.65e-03
0.0000539	0.00792	1.569e+07	1.529e+02	2.347e+17	0.00048	0.34051	0.63968	7.35e-06	2.41e-05	5.47e-03	8.65e-03
0.0000564	0.00804	1.569e+07	1.529e+02	2.347e+17	0.00051	0.34057	0.63962	7.35e-06	2.41e-05	5.47e-03	8.65e-03
0.0000591	0.00816	1.569e+07	1.528e+02	2.347e+17	0.00053	0.34064	0.63955	7.35e-06	2.41e-05	5.46e-03	8.65e-03
0.0000618	0.00829	1.569e+07	1.528e+02	2.346e+17	0.00055	0.34070	0.63948	7.36e-06	2.41e-05	5.46e-03	8.66e-03
0.0000647	0.00841	1.569e+07	1.528e+02	2.346e+17	0.00058	0.34077	0.63942	7.36e-06	2.41e-05	5.46e-03	8.66e-03
0.0000677	0.00854	1.569e+07	1.528e+02	2.346e+17	0.00061	0.34084	0.63934	7.37e-06	2.41e-05	5.46e-03	8.66e-03
0.0000709	0.00867	1.569e+07	1.527e+02	2.345e+17	0.00064	0.34092	0.63927	7.37e-06	2.41e-05	5.46e-03	8.66e-03
0.0000742	0.00881	1.569e+07	1.527e+02	2.345e+17	0.00066	0.34099	0.63920	7.38e-06	2.41e-05	5.46e-03	8.66e-03
0.0000776	0.00894	1.569e+07	1.527e+02	2.345e+17	0.00070	0.34107	0.63912	7.38e-06	2.41e-05	5.46e-03	8.66e-03
0.0000812	0.00908	1.569e+07	1.527e+02	2.344e+17	0.00073	0.34115	0.63904	7.39e-06	2.41e-05	5.46e-03	8.66e-03
0.0000850	0.00922	1.569e+07	1.526e+02	2.344e+17	0.00076	0.34123	0.63896	7.40e-06	2.40e-05	5.46e-03	8.66e-03
0.0000889	0.00936	1.569e+07	1.526e+02	2.343e+17	0.00080	0.34132	0.63887	7.40e-06	2.40e-05	5.46e-03	8.66e-03
0.0000931	0.00950	1.568e+07	1.526e+02	2.343e+17	0.00083	0.34140	0.63879	7.41e-06	2.40e-05	5.46e-03	8.66e-03
0.0000974	0.00964	1.568e+07	1.525e+02	2.343e+17	0.00087	0.34149	0.63870	7.41e-06	2.40e-05	5.46e-03	8.66e-03
0.0001019	0.00979	1.568e+07	1.525e+02	2.342e+17	0.00091	0.34159	0.63860	7.42e-06	2.40e-05	5.46e-03	8.66e-03
0.0001066	0.00994	1.568e+07	1.525e+02	2.342e+17	0.00095	0.34168	0.63851	7.43e-06	2.40e-05	5.46e-03	8.66e-03
0.0001115	0.01009	1.568e+07	1.524e+02	2.341e+17	0.00100	0.34178	0.63841	7.43e-06	2.40e-05	5.46e-03	8.66e-03
0.0001167	0.01025	1.568e+07	1.524e+02	2.341e+17	0.00104	0.34188	0.63831	7.44e-06	2.40e-05	5.46e-03	8.66e-03
0.0001221	0.01040	1.568e+07	1.523e+02	2.340e+17	0.00109	0.34199	0.63820	7.45e-06	2.40e-05	5.45e-03	8.66e-03
0.0001277	0.01056	1.568e+07	1.523e+02	2.340e+17	0.00114	0.34209	0.63810	7.45e-06	2.40e-05	5.45e-03	8.67e-03
0.0001336	0.01072	1.568e+07	1.523e+02	2.339e+17	0.00119	0.34220	0.63799	7.46e-06	2.40e-05	5.45e-03	8.67e-03
0.0001398	0.01088	1.567e+07	1.522e+02	2.339e+17	0.00125	0.34232	0.63787	7.47e-06	2.40e-05	5.45e-03	8.67e-03
0.0001462	0.01105	1.567e+07	1.522e+02	2.338e+17	0.00131	0.34243	0.63776	7.48e-06	2.40e-05	5.45e-03	8.67e-03
0.0001529	0.01122	1.567e+07	1.521e+02	2.337e+17	0.00137	0.34256	0.63764	7.49e-06	2.40e-05	5.45e-03	8.67e-03
0.0001600	0.01139	1.567e+07	1.521e+02	2.337e+17	0.00143	0.34268	0.63751	7.50e-06	2.40e-05	5.45e-03	8.67e-03
0.0001673	0.01156	1.567e+07	1.520e+02	2.336e+17	0.00150	0.34281	0.63739	7.50e-06	2.39e-05	5.45e-03	8.67e-03

0.0001750	0.01173	1.567e+07	1.520e+02	2.336e+17	0.00156	0.34294	0.63725	7.51e-06	2.39e-05	5.45e-03	8.67e-03
0.0001830	0.01191	1.567e+07	1.519e+02	2.335e+17	0.00163	0.34307	0.63712	7.52e-06	2.39e-05	5.45e-03	8.67e-03
0.0001914	0.01209	1.566e+07	1.519e+02	2.334e+17	0.00171	0.34321	0.63698	7.53e-06	2.39e-05	5.45e-03	8.67e-03
0.0002001	0.01227	1.566e+07	1.518e+02	2.334e+17	0.00179	0.34336	0.63684	7.54e-06	2.39e-05	5.44e-03	8.67e-03
0.0002093	0.01246	1.566e+07	1.518e+02	2.333e+17	0.00187	0.34350	0.63669	7.55e-06	2.39e-05	5.44e-03	8.68e-03
0.0002188	0.01264	1.566e+07	1.517e+02	2.332e+17	0.00195	0.34365	0.63654	7.56e-06	2.39e-05	5.44e-03	8.68e-03
0.0002288	0.01283	1.566e+07	1.517e+02	2.331e+17	0.00204	0.34381	0.63638	7.57e-06	2.39e-05	5.44e-03	8.68e-03
0.0002392	0.01303	1.566e+07	1.516e+02	2.331e+17	0.00213	0.34397	0.63622	7.59e-06	2.39e-05	5.44e-03	8.68e-03
0.0002501	0.01322	1.565e+07	1.515e+02	2.330e+17	0.00223	0.34414	0.63606	7.60e-06	2.39e-05	5.44e-03	8.68e-03
0.0002615	0.01342	1.565e+07	1.515e+02	2.329e+17	0.00233	0.34431	0.63589	7.61e-06	2.38e-05	5.44e-03	8.68e-03
0.0002733	0.01362	1.565e+07	1.514e+02	2.328e+17	0.00244	0.34448	0.63572	7.62e-06	2.38e-05	5.44e-03	8.68e-03
0.0002857	0.01383	1.565e+07	1.514e+02	2.327e+17	0.00255	0.34466	0.63554	7.63e-06	2.38e-05	5.43e-03	8.68e-03
0.0002986	0.01403	1.565e+07	1.513e+02	2.326e+17	0.00266	0.34484	0.63535	7.65e-06	2.38e-05	5.43e-03	8.69e-03
0.0003121	0.01424	1.565e+07	1.512e+02	2.325e+17	0.00278	0.34503	0.63516	7.66e-06	2.38e-05	5.43e-03	8.69e-03
0.0003262	0.01445	1.564e+07	1.511e+02	2.324e+17	0.00290	0.34523	0.63497	7.67e-06	2.38e-05	5.43e-03	8.69e-03
0.0003408	0.01467	1.564e+07	1.511e+02	2.323e+17	0.00303	0.34543	0.63477	7.69e-06	2.38e-05	5.43e-03	8.69e-03
0.0003561	0.01489	1.564e+07	1.510e+02	2.322e+17	0.00317	0.34563	0.63456	7.70e-06	2.38e-05	5.43e-03	8.69e-03
0.0003721	0.01511	1.564e+07	1.509e+02	2.321e+17	0.00331	0.34584	0.63435	7.72e-06	2.37e-05	5.43e-03	8.69e-03
0.0003888	0.01533	1.563e+07	1.508e+02	2.320e+17	0.00346	0.34606	0.63414	7.73e-06	2.37e-05	5.42e-03	8.69e-03
0.0004061	0.01556	1.563e+07	1.508e+02	2.319e+17	0.00361	0.34628	0.63391	7.75e-06	2.37e-05	5.42e-03	8.70e-03
0.0004242	0.01579	1.563e+07	1.507e+02	2.318e+17	0.00377	0.34651	0.63368	7.77e-06	2.37e-05	5.42e-03	8.70e-03
0.0004431	0.01602	1.563e+07	1.506e+02	2.317e+17	0.00393	0.34675	0.63345	7.78e-06	2.37e-05	5.42e-03	8.70e-03
0.0004628	0.01626	1.562e+07	1.505e+02	2.316e+17	0.00411	0.34699	0.63321	7.80e-06	2.37e-05	5.42e-03	8.70e-03
0.0004833	0.01649	1.562e+07	1.504e+02	2.315e+17	0.00429	0.34724	0.63296	7.82e-06	2.37e-05	5.42e-03	8.70e-03
0.0005046	0.01674	1.562e+07	1.503e+02	2.313e+17	0.00448	0.34749	0.63271	7.84e-06	2.36e-05	5.41e-03	8.70e-03
0.0005269	0.01698	1.562e+07	1.502e+02	2.312e+17	0.00467	0.34775	0.63245	7.86e-06	2.36e-05	5.41e-03	8.71e-03
0.0005501	0.01723	1.561e+07	1.501e+02	2.311e+17	0.00487	0.34802	0.63218	7.88e-06	2.36e-05	5.41e-03	8.71e-03
0.0005742	0.01748	1.561e+07	1.500e+02	2.309e+17	0.00509	0.34830	0.63190	7.90e-06	2.36e-05	5.41e-03	8.71e-03
0.0005993	0.01773	1.561e+07	1.499e+02	2.308e+17	0.00531	0.34858	0.63162	7.92e-06	2.36e-05	5.41e-03	8.71e-03
0.0006255	0.01799	1.560e+07	1.498e+02	2.307e+17	0.00553	0.34887	0.63133	7.94e-06	2.36e-05	5.41e-03	8.71e-03
0.0006527	0.01825	1.560e+07	1.497e+02	2.305e+17	0.00577	0.34917	0.63104	7.96e-06	2.35e-05	5.40e-03	8.72e-03

0.0006810	0.01851	1.560e+07	1.496e+02	2.304e+17	0.00602	0.34947	0.63073	7.98e-06	2.35e-05	5.40e-03	8.72e-03
0.0007105	0.01878	1.559e+07	1.495e+02	2.302e+17	0.00628	0.34978	0.63042	8.00e-06	2.35e-05	5.40e-03	8.72e-03
0.0007411	0.01905	1.559e+07	1.494e+02	2.301e+17	0.00655	0.35010	0.63010	8.03e-06	2.35e-05	5.40e-03	8.72e-03
0.0007730	0.01932	1.559e+07	1.492e+02	2.299e+17	0.00682	0.35043	0.62978	8.05e-06	2.35e-05	5.39e-03	8.72e-03
0.0008061	0.01960	1.558e+07	1.491e+02	2.297e+17	0.00711	0.35076	0.62944	8.08e-06	2.34e-05	5.39e-03	8.73e-03
0.0008406	0.01987	1.558e+07	1.490e+02	2.296e+17	0.00741	0.35111	0.62910	8.10e-06	2.34e-05	5.39e-03	8.73e-03
0.0008763	0.02016	1.557e+07	1.489e+02	2.294e+17	0.00772	0.35146	0.62875	8.13e-06	2.34e-05	5.39e-03	8.73e-03
0.0009135	0.02044	1.557e+07	1.487e+02	2.292e+17	0.00804	0.35182	0.62839	8.15e-06	2.34e-05	5.38e-03	8.73e-03
0.0009521	0.02073	1.557e+07	1.486e+02	2.291e+17	0.00838	0.35219	0.62802	8.18e-06	2.34e-05	5.38e-03	8.74e-03
0.0009922	0.02102	1.556e+07	1.485e+02	2.289e+17	0.00873	0.35257	0.62764	8.21e-06	2.33e-05	5.38e-03	8.74e-03
0.0010338	0.02131	1.556e+07	1.483e+02	2.287e+17	0.00909	0.35295	0.62726	8.24e-06	2.33e-05	5.38e-03	8.74e-03
0.0010770	0.02161	1.555e+07	1.482e+02	2.285e+17	0.00946	0.35335	0.62686	8.27e-06	2.33e-05	5.37e-03	8.74e-03
0.0011218	0.02191	1.555e+07	1.480e+02	2.283e+17	0.00985	0.35375	0.62646	8.30e-06	2.33e-05	5.37e-03	8.75e-03
0.0011683	0.02221	1.554e+07	1.479e+02	2.281e+17	0.01025	0.35417	0.62605	8.33e-06	2.32e-05	5.37e-03	8.75e-03
0.0012165	0.02252	1.554e+07	1.477e+02	2.279e+17	0.01066	0.35459	0.62562	8.36e-06	2.32e-05	5.37e-03	8.75e-03
0.0012665	0.02283	1.554e+07	1.476e+02	2.277e+17	0.01109	0.35502	0.62519	8.40e-06	2.32e-05	5.36e-03	8.75e-03
0.0013182	0.02314	1.553e+07	1.474e+02	2.275e+17	0.01154	0.35546	0.62475	8.43e-06	2.32e-05	5.36e-03	8.76e-03
0.0013719	0.02345	1.553e+07	1.472e+02	2.272e+17	0.01200	0.35591	0.62430	8.46e-06	2.31e-05	5.36e-03	8.76e-03
0.0014274	0.02377	1.552e+07	1.471e+02	2.270e+17	0.01248	0.35637	0.62384	8.50e-06	2.31e-05	5.35e-03	8.76e-03
0.0014850	0.02409	1.551e+07	1.469e+02	2.268e+17	0.01297	0.35684	0.62338	8.54e-06	2.31e-05	5.35e-03	8.76e-03
0.0015445	0.02442	1.551e+07	1.467e+02	2.266e+17	0.01348	0.35732	0.62290	8.57e-06	2.30e-05	5.35e-03	8.77e-03
0.0016061	0.02474	1.550e+07	1.466e+02	2.263e+17	0.01400	0.35781	0.62241	8.61e-06	2.30e-05	5.35e-03	8.77e-03
0.0016698	0.02507	1.550e+07	1.464e+02	2.261e+17	0.01455	0.35830	0.62191	8.65e-06	2.30e-05	5.34e-03	8.77e-03
0.0017357	0.02540	1.549e+07	1.462e+02	2.258e+17	0.01511	0.35881	0.62141	8.69e-06	2.30e-05	5.34e-03	8.78e-03
0.0018038	0.02574	1.549e+07	1.460e+02	2.256e+17	0.01569	0.35933	0.62089	8.73e-06	2.29e-05	5.34e-03	8.78e-03
0.0018742	0.02608	1.548e+07	1.458e+02	2.253e+17	0.01628	0.35986	0.62036	8.77e-06	2.29e-05	5.33e-03	8.78e-03
0.0019468	0.02642	1.548e+07	1.456e+02	2.251e+17	0.01690	0.36040	0.61982	8.82e-06	2.29e-05	5.33e-03	8.79e-03
0.0020219	0.02676	1.547e+07	1.454e+02	2.248e+17	0.01754	0.36094	0.61928	8.86e-06	2.28e-05	5.33e-03	8.79e-03
0.0020994	0.02710	1.546e+07	1.452e+02	2.245e+17	0.01819	0.36150	0.61872	8.90e-06	2.28e-05	5.32e-03	8.79e-03
0.0021793	0.02745	1.546e+07	1.450e+02	2.242e+17	0.01887	0.36207	0.61815	8.95e-06	2.28e-05	5.32e-03	8.80e-03
0.0022618	0.02780	1.545e+07	1.448e+02	2.240e+17	0.01956	0.36265	0.61758	9.00e-06	2.27e-05	5.32e-03	8.80e-03

0.0023469	0.02815	1.544e+07	1.446e+02	2.237e+17	0.02028	0.36324	0.61699	9.04e-06	2.27e-05	5.31e-03	8.80e-03
0.0024345	0.02851	1.544e+07	1.444e+02	2.234e+17	0.02101	0.36383	0.61639	9.09e-06	2.27e-05	5.31e-03	8.81e-03
0.0025249	0.02887	1.543e+07	1.442e+02	2.231e+17	0.02177	0.36444	0.61579	9.14e-06	2.26e-05	5.31e-03	8.81e-03
0.0026179	0.02923	1.542e+07	1.440e+02	2.228e+17	0.02255	0.36506	0.61517	9.19e-06	2.26e-05	5.30e-03	8.81e-03
0.0027137	0.02959	1.542e+07	1.437e+02	2.225e+17	0.02335	0.36569	0.61454	9.24e-06	2.26e-05	5.30e-03	8.82e-03
0.0028123	0.02995	1.541e+07	1.435e+02	2.222e+17	0.02417	0.36632	0.61391	9.30e-06	2.25e-05	5.29e-03	8.82e-03
0.0029138	0.03032	1.540e+07	1.433e+02	2.219e+17	0.02501	0.36697	0.61326	9.35e-06	2.25e-05	5.29e-03	8.82e-03
0.0030181	0.03068	1.539e+07	1.430e+02	2.215e+17	0.02588	0.36763	0.61261	9.41e-06	2.25e-05	5.29e-03	8.83e-03
0.0031254	0.03105	1.539e+07	1.428e+02	2.212e+17	0.02677	0.36829	0.61194	9.46e-06	2.24e-05	5.28e-03	8.83e-03
0.0032357	0.03143	1.538e+07	1.426e+02	2.209e+17	0.02768	0.36897	0.61127	9.52e-06	2.24e-05	5.28e-03	8.83e-03
0.0033490	0.03180	1.537e+07	1.423e+02	2.205e+17	0.02862	0.36966	0.61058	9.58e-06	2.23e-05	5.28e-03	8.84e-03
0.0034653	0.03218	1.536e+07	1.421e+02	2.202e+17	0.02958	0.37035	0.60989	9.64e-06	2.23e-05	5.27e-03	8.84e-03
0.0035848	0.03255	1.536e+07	1.418e+02	2.199e+17	0.03056	0.37106	0.60918	9.70e-06	2.23e-05	5.27e-03	8.84e-03
0.0037074	0.03293	1.535e+07	1.416e+02	2.195e+17	0.03157	0.37177	0.60847	9.76e-06	2.22e-05	5.26e-03	8.85e-03
0.0038331	0.03331	1.534e+07	1.413e+02	2.192e+17	0.03260	0.37249	0.60775	9.82e-06	2.22e-05	5.26e-03	8.85e-03
0.0039621	0.03369	1.533e+07	1.411e+02	2.188e+17	0.03365	0.37323	0.60702	9.89e-06	2.21e-05	5.26e-03	8.85e-03
0.0040943	0.03408	1.532e+07	1.408e+02	2.184e+17	0.03473	0.37397	0.60628	9.95e-06	2.21e-05	5.25e-03	8.86e-03
0.0042298	0.03446	1.531e+07	1.405e+02	2.181e+17	0.03583	0.37472	0.60553	1.00e-05	2.21e-05	5.25e-03	8.86e-03
0.0043685	0.03485	1.530e+07	1.403e+02	2.177e+17	0.03696	0.37548	0.60477	1.01e-05	2.20e-05	5.24e-03	8.86e-03
0.0045106	0.03524	1.530e+07	1.400e+02	2.173e+17	0.03811	0.37625	0.60400	1.02e-05	2.20e-05	5.24e-03	8.87e-03
0.0046561	0.03563	1.529e+07	1.397e+02	2.170e+17	0.03929	0.37702	0.60323	1.02e-05	2.19e-05	5.24e-03	8.87e-03
0.0048050	0.03602	1.528e+07	1.395e+02	2.166e+17	0.04049	0.37781	0.60244	1.03e-05	2.19e-05	5.23e-03	8.88e-03
0.0049573	0.03641	1.527e+07	1.392e+02	2.162e+17	0.04171	0.37860	0.60165	1.04e-05	2.19e-05	5.23e-03	8.88e-03
0.0051130	0.03680	1.526e+07	1.389e+02	2.158e+17	0.04296	0.37940	0.60085	1.04e-05	2.18e-05	5.22e-03	8.88e-03
0.0052722	0.03719	1.525e+07	1.386e+02	2.154e+17	0.04424	0.38021	0.60004	1.05e-05	2.18e-05	5.22e-03	8.89e-03
0.0054349	0.03759	1.524e+07	1.383e+02	2.150e+17	0.04554	0.38103	0.59923	1.06e-05	2.17e-05	5.22e-03	8.89e-03
0.0056010	0.03798	1.523e+07	1.380e+02	2.146e+17	0.04686	0.38185	0.59840	1.07e-05	2.17e-05	5.21e-03	8.89e-03
0.0057707	0.03838	1.522e+07	1.378e+02	2.142e+17	0.04821	0.38269	0.59757	1.07e-05	2.16e-05	5.21e-03	8.90e-03
0.0059440	0.03878	1.521e+07	1.375e+02	2.138e+17	0.04959	0.38353	0.59673	1.08e-05	2.16e-05	5.20e-03	8.90e-03
0.0061208	0.03917	1.520e+07	1.372e+02	2.134e+17	0.05098	0.38438	0.59589	1.09e-05	2.16e-05	5.20e-03	8.90e-03
0.0063011	0.03957	1.519e+07	1.369e+02	2.129e+17	0.05241	0.38523	0.59503	1.10e-05	2.15e-05	5.20e-03	8.91e-03

0.0064851	0.03997	1.518e+07	1.366e+02	2.125e+17	0.05386	0.38609	0.59417	1.11e-05	2.15e-05	5.19e-03	8.91e-03
0.0066726	0.04037	1.517e+07	1.363e+02	2.121e+17	0.05533	0.38696	0.59331	1.12e-05	2.14e-05	5.19e-03	8.91e-03
0.0068638	0.04077	1.516e+07	1.360e+02	2.117e+17	0.05682	0.38784	0.59243	1.12e-05	2.14e-05	5.18e-03	8.92e-03
0.0070586	0.04117	1.515e+07	1.357e+02	2.112e+17	0.05835	0.38872	0.59155	1.13e-05	2.13e-05	5.18e-03	8.92e-03
0.0072570	0.04158	1.514e+07	1.354e+02	2.108e+17	0.05989	0.38961	0.59066	1.14e-05	2.13e-05	5.18e-03	8.93e-03
0.0074590	0.04198	1.513e+07	1.351e+02	2.104e+17	0.06146	0.39050	0.58977	1.15e-05	2.12e-05	5.17e-03	8.93e-03
0.0076648	0.04238	1.512e+07	1.347e+02	2.099e+17	0.06305	0.39140	0.58887	1.16e-05	2.12e-05	5.17e-03	8.93e-03
0.0078741	0.04278	1.511e+07	1.344e+02	2.095e+17	0.06467	0.39231	0.58797	1.17e-05	2.12e-05	5.16e-03	8.94e-03
0.0080872	0.04319	1.510e+07	1.341e+02	2.090e+17	0.06631	0.39322	0.58706	1.18e-05	2.11e-05	5.16e-03	8.94e-03
0.0083039	0.04359	1.509e+07	1.338e+02	2.086e+17	0.06798	0.39414	0.58614	1.19e-05	2.11e-05	5.16e-03	8.94e-03
0.0085242	0.04399	1.508e+07	1.335e+02	2.081e+17	0.06966	0.39506	0.58522	1.20e-05	2.10e-05	5.15e-03	8.95e-03
0.0087482	0.04440	1.507e+07	1.332e+02	2.077e+17	0.07137	0.39599	0.58429	1.21e-05	2.10e-05	5.15e-03	8.95e-03
0.0089759	0.04480	1.506e+07	1.329e+02	2.072e+17	0.07311	0.39693	0.58336	1.22e-05	2.09e-05	5.14e-03	8.95e-03
0.0092073	0.04521	1.504e+07	1.325e+02	2.068e+17	0.07487	0.39786	0.58242	1.23e-05	2.09e-05	5.14e-03	8.95e-03
0.0094423	0.04561	1.503e+07	1.322e+02	2.063e+17	0.07665	0.39881	0.58148	1.24e-05	2.08e-05	5.14e-03	8.96e-03
0.0096811	0.04601	1.502e+07	1.319e+02	2.058e+17	0.07845	0.39976	0.58053	1.25e-05	2.08e-05	5.13e-03	8.96e-03
0.0099235	0.04642	1.501e+07	1.316e+02	2.054e+17	0.08027	0.40071	0.57958	1.26e-05	2.07e-05	5.13e-03	8.96e-03
0.0101695	0.04682	1.500e+07	1.312e+02	2.049e+17	0.08212	0.40167	0.57862	1.27e-05	2.07e-05	5.12e-03	8.97e-03
0.0104193	0.04723	1.499e+07	1.309e+02	2.044e+17	0.08399	0.40263	0.57766	1.28e-05	2.07e-05	5.12e-03	8.97e-03
0.0106727	0.04763	1.498e+07	1.306e+02	2.040e+17	0.08588	0.40360	0.57670	1.29e-05	2.06e-05	5.12e-03	8.97e-03
0.0109297	0.04804	1.496e+07	1.303e+02	2.035e+17	0.08779	0.40457	0.57573	1.30e-05	2.06e-05	5.11e-03	8.98e-03
0.0111905	0.04844	1.495e+07	1.299e+02	2.030e+17	0.08972	0.40554	0.57476	1.31e-05	2.05e-05	5.11e-03	8.98e-03
0.0114548	0.04884	1.494e+07	1.296e+02	2.025e+17	0.09168	0.40652	0.57378	1.32e-05	2.05e-05	5.11e-03	8.98e-03
0.0117229	0.04925	1.493e+07	1.293e+02	2.021e+17	0.09365	0.40750	0.57280	1.33e-05	2.04e-05	5.10e-03	8.98e-03
0.0119946	0.04965	1.492e+07	1.290e+02	2.016e+17	0.09565	0.40848	0.57182	1.34e-05	2.04e-05	5.10e-03	8.99e-03
0.0122699	0.05006	1.491e+07	1.286e+02	2.011e+17	0.09766	0.40947	0.57083	1.36e-05	2.03e-05	5.10e-03	8.99e-03
0.0125489	0.05046	1.489e+07	1.283e+02	2.006e+17	0.09970	0.41046	0.56984	1.37e-05	2.03e-05	5.09e-03	8.99e-03
0.0128315	0.05086	1.488e+07	1.280e+02	2.001e+17	0.10175	0.41146	0.56885	1.38e-05	2.02e-05	5.09e-03	8.99e-03
0.0131177	0.05127	1.487e+07	1.276e+02	1.996e+17	0.10383	0.41246	0.56785	1.39e-05	2.02e-05	5.09e-03	9.00e-03
0.0134075	0.05167	1.486e+07	1.273e+02	1.991e+17	0.10593	0.41346	0.56686	1.40e-05	2.02e-05	5.08e-03	9.00e-03
0.0137010	0.05207	1.485e+07	1.270e+02	1.986e+17	0.10804	0.41446	0.56585	1.41e-05	2.01e-05	5.08e-03	9.00e-03

0.0139980	0.05248	1.483e+07	1.266e+02	1.982e+17	0.11017	0.41547	0.56485	1.43e-05	2.01e-05	5.08e-03	9.00e-03
0.0142987	0.05288	1.482e+07	1.263e+02	1.977e+17	0.11233	0.41648	0.56384	1.44e-05	2.00e-05	5.07e-03	9.01e-03
0.0146030	0.05328	1.481e+07	1.260e+02	1.972e+17	0.11450	0.41749	0.56283	1.45e-05	2.00e-05	5.07e-03	9.01e-03
0.0149109	0.05368	1.480e+07	1.256e+02	1.967e+17	0.11668	0.41850	0.56182	1.46e-05	1.99e-05	5.07e-03	9.01e-03
0.0152222	0.05408	1.478e+07	1.253e+02	1.962e+17	0.11889	0.41952	0.56081	1.48e-05	1.99e-05	5.06e-03	9.01e-03
0.0155373	0.05448	1.477e+07	1.249e+02	1.957e+17	0.12112	0.42053	0.55979	1.49e-05	1.98e-05	5.06e-03	9.02e-03
0.0158558	0.05489	1.476e+07	1.246e+02	1.952e+17	0.12336	0.42155	0.55877	1.50e-05	1.98e-05	5.06e-03	9.02e-03
0.0161779	0.05529	1.475e+07	1.243e+02	1.947e+17	0.12562	0.42257	0.55775	1.52e-05	1.97e-05	5.05e-03	9.02e-03
0.0165036	0.05569	1.473e+07	1.239e+02	1.942e+17	0.12790	0.42360	0.55673	1.53e-05	1.97e-05	5.05e-03	9.02e-03
0.0168328	0.05609	1.472e+07	1.236e+02	1.937e+17	0.13019	0.42462	0.55571	1.54e-05	1.97e-05	5.05e-03	9.02e-03
0.0171656	0.05649	1.471e+07	1.233e+02	1.932e+17	0.13250	0.42565	0.55468	1.56e-05	1.96e-05	5.04e-03	9.03e-03
0.0175018	0.05688	1.470e+07	1.229e+02	1.927e+17	0.13483	0.42668	0.55366	1.57e-05	1.96e-05	5.04e-03	9.03e-03
0.0178417	0.05728	1.468e+07	1.226e+02	1.921e+17	0.13717	0.42771	0.55263	1.58e-05	1.95e-05	5.04e-03	9.03e-03
0.0181850	0.05768	1.467e+07	1.222e+02	1.916e+17	0.13953	0.42874	0.55160	1.60e-05	1.95e-05	5.04e-03	9.03e-03
0.0185318	0.05808	1.466e+07	1.219e+02	1.911e+17	0.14190	0.42977	0.55057	1.61e-05	1.94e-05	5.03e-03	9.03e-03
0.0188821	0.05848	1.464e+07	1.216e+02	1.906e+17	0.14429	0.43081	0.54954	1.63e-05	1.94e-05	5.03e-03	9.04e-03
0.0192359	0.05888	1.463e+07	1.212e+02	1.901e+17	0.14670	0.43184	0.54850	1.64e-05	1.93e-05	5.03e-03	9.04e-03
0.0195933	0.05927	1.462e+07	1.209e+02	1.896e+17	0.14912	0.43288	0.54747	1.66e-05	1.93e-05	5.02e-03	9.04e-03
0.0199541	0.05967	1.461e+07	1.206e+02	1.891e+17	0.15155	0.43392	0.54643	1.67e-05	1.93e-05	5.02e-03	9.04e-03
0.0203184	0.06007	1.459e+07	1.202e+02	1.886e+17	0.15400	0.43496	0.54540	1.69e-05	1.92e-05	5.02e-03	9.04e-03
0.0206862	0.06046	1.458e+07	1.199e+02	1.881e+17	0.15647	0.43599	0.54436	1.70e-05	1.92e-05	5.02e-03	9.04e-03
0.0210574	0.06086	1.457e+07	1.195e+02	1.876e+17	0.15895	0.43703	0.54332	1.72e-05	1.91e-05	5.01e-03	9.05e-03
0.0214320	0.06125	1.455e+07	1.192e+02	1.870e+17	0.16144	0.43808	0.54228	1.73e-05	1.91e-05	5.01e-03	9.05e-03
0.0218102	0.06165	1.454e+07	1.189e+02	1.865e+17	0.16395	0.43912	0.54124	1.75e-05	1.90e-05	5.01e-03	9.05e-03
0.0221918	0.06204	1.453e+07	1.185e+02	1.860e+17	0.16647	0.44016	0.54020	1.76e-05	1.90e-05	5.01e-03	9.05e-03
0.0225768	0.06244	1.451e+07	1.182e+02	1.855e+17	0.16900	0.44120	0.53916	1.78e-05	1.90e-05	5.00e-03	9.05e-03
0.0229654	0.06283	1.450e+07	1.179e+02	1.850e+17	0.17155	0.44225	0.53812	1.79e-05	1.89e-05	5.00e-03	9.05e-03
0.0233573	0.06322	1.449e+07	1.175e+02	1.845e+17	0.17411	0.44329	0.53708	1.81e-05	1.89e-05	5.00e-03	9.05e-03
0.0237527	0.06362	1.447e+07	1.172e+02	1.840e+17	0.17668	0.44433	0.53604	1.83e-05	1.88e-05	5.00e-03	9.06e-03
0.0241514	0.06401	1.446e+07	1.169e+02	1.834e+17	0.17926	0.44538	0.53499	1.84e-05	1.88e-05	4.99e-03	9.06e-03
0.0245537	0.06440	1.445e+07	1.165e+02	1.829e+17	0.18186	0.44642	0.53395	1.86e-05	1.87e-05	4.99e-03	9.06e-03

0.0249592	0.06479	1.443e+07	1.162e+02	1.824e+17	0.18447	0.44747	0.53291	1.88e-05	1.87e-05	4.99e-03	9.06e-03
0.0253683	0.06519	1.442e+07	1.159e+02	1.819e+17	0.18709	0.44851	0.53186	1.89e-05	1.86e-05	4.99e-03	9.06e-03
0.0257808	0.06558	1.441e+07	1.155e+02	1.814e+17	0.18973	0.44956	0.53082	1.91e-05	1.86e-05	4.98e-03	9.06e-03
0.0261967	0.06597	1.439e+07	1.152e+02	1.809e+17	0.19237	0.45060	0.52978	1.93e-05	1.86e-05	4.98e-03	9.06e-03
0.0266160	0.06636	1.438e+07	1.149e+02	1.803e+17	0.19503	0.45165	0.52873	1.95e-05	1.85e-05	4.98e-03	9.06e-03
0.0270386	0.06675	1.437e+07	1.145e+02	1.798e+17	0.19769	0.45270	0.52769	1.96e-05	1.85e-05	4.98e-03	9.07e-03
0.0274648	0.06714	1.435e+07	1.142e+02	1.793e+17	0.20037	0.45374	0.52664	1.98e-05	1.84e-05	4.98e-03	9.07e-03
0.0278943	0.06753	1.434e+07	1.139e+02	1.788e+17	0.20306	0.45479	0.52560	2.00e-05	1.84e-05	4.97e-03	9.07e-03
0.0283273	0.06792	1.432e+07	1.135e+02	1.783e+17	0.20576	0.45583	0.52456	2.02e-05	1.83e-05	4.97e-03	9.07e-03
0.0287635	0.06831	1.431e+07	1.132e+02	1.778e+17	0.20847	0.45688	0.52351	2.04e-05	1.83e-05	4.97e-03	9.07e-03
0.0292033	0.06870	1.430e+07	1.129e+02	1.772e+17	0.21120	0.45792	0.52247	2.05e-05	1.83e-05	4.97e-03	9.07e-03
0.0296464	0.06909	1.428e+07	1.125e+02	1.767e+17	0.21393	0.45897	0.52143	2.07e-05	1.82e-05	4.96e-03	9.07e-03
0.0300930	0.06948	1.427e+07	1.122e+02	1.762e+17	0.21667	0.46001	0.52038	2.09e-05	1.82e-05	4.96e-03	9.07e-03
0.0305429	0.06987	1.426e+07	1.119e+02	1.757e+17	0.21942	0.46106	0.51934	2.11e-05	1.81e-05	4.96e-03	9.07e-03
0.0309962	0.07025	1.424e+07	1.115e+02	1.752e+17	0.22218	0.46210	0.51830	2.13e-05	1.81e-05	4.96e-03	9.07e-03
0.0314530	0.07064	1.423e+07	1.112e+02	1.746e+17	0.22495	0.46315	0.51726	2.15e-05	1.81e-05	4.96e-03	9.07e-03
0.0319132	0.07103	1.421e+07	1.109e+02	1.741e+17	0.22773	0.46419	0.51622	2.17e-05	1.80e-05	4.95e-03	9.07e-03
0.0323766	0.07142	1.420e+07	1.106e+02	1.736e+17	0.23052	0.46523	0.51517	2.19e-05	1.80e-05	4.95e-03	9.07e-03
0.0328437	0.07180	1.419e+07	1.102e+02	1.731e+17	0.23332	0.46628	0.51413	2.21e-05	1.79e-05	4.95e-03	9.07e-03
0.0333141	0.07219	1.417e+07	1.099e+02	1.726e+17	0.23613	0.46732	0.51309	2.23e-05	1.79e-05	4.95e-03	9.08e-03
0.0337878	0.07258	1.416e+07	1.096e+02	1.721e+17	0.23894	0.46836	0.51205	2.25e-05	1.78e-05	4.95e-03	9.08e-03
0.0342649	0.07296	1.414e+07	1.092e+02	1.715e+17	0.24177	0.46940	0.51101	2.27e-05	1.78e-05	4.95e-03	9.08e-03
0.0347456	0.07335	1.413e+07	1.089e+02	1.710e+17	0.24460	0.47044	0.50997	2.29e-05	1.78e-05	4.94e-03	9.08e-03
0.0352296	0.07374	1.412e+07	1.086e+02	1.705e+17	0.24744	0.47148	0.50894	2.31e-05	1.77e-05	4.94e-03	9.08e-03
0.0357171	0.07412	1.410e+07	1.083e+02	1.700e+17	0.25029	0.47252	0.50790	2.33e-05	1.77e-05	4.94e-03	9.08e-03
0.0362080	0.07451	1.409e+07	1.079e+02	1.695e+17	0.25315	0.47356	0.50686	2.35e-05	1.76e-05	4.94e-03	9.08e-03
0.0367022	0.07490	1.407e+07	1.076e+02	1.689e+17	0.25602	0.47460	0.50582	2.37e-05	1.76e-05	4.94e-03	9.08e-03
0.0371999	0.07528	1.406e+07	1.073e+02	1.684e+17	0.25889	0.47564	0.50479	2.40e-05	1.76e-05	4.94e-03	9.08e-03
0.0377012	0.07567	1.405e+07	1.070e+02	1.679e+17	0.26177	0.47667	0.50375	2.42e-05	1.75e-05	4.93e-03	9.08e-03
0.0382058	0.07605	1.403e+07	1.067e+02	1.674e+17	0.26466	0.47771	0.50272	2.44e-05	1.75e-05	4.93e-03	9.08e-03
0.0387139	0.07644	1.402e+07	1.063e+02	1.669e+17	0.26755	0.47875	0.50169	2.46e-05	1.74e-05	4.93e-03	9.08e-03

0.0392254	0.07682	1.400e+07	1.060e+02	1.664e+17	0.27046	0.47978	0.50065	2.48e-05	1.74e-05	4.93e-03	9.08e-03
0.0397404	0.07721	1.399e+07	1.057e+02	1.658e+17	0.27337	0.48082	0.49962	2.51e-05	1.74e-05	4.93e-03	9.08e-03
0.0402588	0.07759	1.397e+07	1.054e+02	1.653e+17	0.27629	0.48185	0.49859	2.53e-05	1.73e-05	4.93e-03	9.08e-03
0.0407808	0.07798	1.396e+07	1.050e+02	1.648e+17	0.27921	0.48288	0.49756	2.55e-05	1.73e-05	4.92e-03	9.08e-03
0.0413062	0.07836	1.395e+07	1.047e+02	1.643e+17	0.28214	0.48391	0.49653	2.58e-05	1.72e-05	4.92e-03	9.08e-03
0.0418351	0.07875	1.393e+07	1.044e+02	1.638e+17	0.28508	0.48494	0.49550	2.60e-05	1.72e-05	4.92e-03	9.08e-03
0.0423674	0.07913	1.392e+07	1.041e+02	1.632e+17	0.28802	0.48597	0.49447	2.62e-05	1.71e-05	4.92e-03	9.08e-03
0.0429033	0.07952	1.390e+07	1.038e+02	1.627e+17	0.29097	0.48700	0.49344	2.65e-05	1.71e-05	4.92e-03	9.08e-03
0.0434427	0.07990	1.389e+07	1.035e+02	1.622e+17	0.29393	0.48803	0.49242	2.67e-05	1.71e-05	4.92e-03	9.08e-03
0.0439857	0.08029	1.387e+07	1.031e+02	1.617e+17	0.29689	0.48906	0.49139	2.70e-05	1.70e-05	4.92e-03	9.08e-03
0.0445321	0.08067	1.386e+07	1.028e+02	1.612e+17	0.29986	0.49009	0.49036	2.72e-05	1.70e-05	4.92e-03	9.08e-03
0.0450821	0.08106	1.384e+07	1.025e+02	1.607e+17	0.30283	0.49111	0.48934	2.75e-05	1.69e-05	4.91e-03	9.08e-03
0.0456355	0.08144	1.383e+07	1.022e+02	1.602e+17	0.30581	0.49214	0.48832	2.77e-05	1.69e-05	4.91e-03	9.08e-03
0.0461926	0.08183	1.382e+07	1.019e+02	1.596e+17	0.30880	0.49316	0.48730	2.80e-05	1.69e-05	4.91e-03	9.08e-03
0.0467533	0.08221	1.380e+07	1.016e+02	1.591e+17	0.31179	0.49419	0.48627	2.82e-05	1.68e-05	4.91e-03	9.08e-03
0.0473174	0.08259	1.379e+07	1.012e+02	1.586e+17	0.31478	0.49521	0.48525	2.85e-05	1.68e-05	4.91e-03	9.08e-03
0.0478852	0.08298	1.377e+07	1.009e+02	1.581e+17	0.31779	0.49623	0.48424	2.88e-05	1.67e-05	4.91e-03	9.08e-03
0.0484566	0.08336	1.376e+07	1.006e+02	1.576e+17	0.32079	0.49725	0.48322	2.90e-05	1.67e-05	4.91e-03	9.08e-03
0.0490316	0.08375	1.374e+07	1.003e+02	1.571e+17	0.32380	0.49827	0.48220	2.93e-05	1.67e-05	4.90e-03	9.08e-03
0.0496102	0.08413	1.373e+07	9.999e+01	1.565e+17	0.32682	0.49929	0.48118	2.96e-05	1.66e-05	4.90e-03	9.08e-03
0.0501925	0.08452	1.371e+07	9.967e+01	1.560e+17	0.32984	0.50030	0.48017	2.99e-05	1.66e-05	4.90e-03	9.08e-03
0.0507785	0.08490	1.370e+07	9.936e+01	1.555e+17	0.33287	0.50132	0.47915	3.01e-05	1.65e-05	4.90e-03	9.08e-03
0.0513679	0.08529	1.368e+07	9.905e+01	1.550e+17	0.33590	0.50233	0.47814	3.04e-05	1.65e-05	4.90e-03	9.08e-03
0.0519611	0.08567	1.367e+07	9.874e+01	1.545e+17	0.33894	0.50335	0.47713	3.07e-05	1.65e-05	4.90e-03	9.08e-03
0.0525578	0.08606	1.365e+07	9.843e+01	1.540e+17	0.34198	0.50436	0.47612	3.10e-05	1.64e-05	4.90e-03	9.08e-03
0.0531586	0.08645	1.364e+07	9.812e+01	1.535e+17	0.34502	0.50537	0.47511	3.13e-05	1.64e-05	4.90e-03	9.08e-03
0.0537629	0.08683	1.362e+07	9.781e+01	1.529e+17	0.34807	0.50638	0.47410	3.16e-05	1.63e-05	4.90e-03	9.08e-03
0.0543708	0.08722	1.361e+07	9.750e+01	1.524e+17	0.35112	0.50739	0.47309	3.19e-05	1.63e-05	4.89e-03	9.08e-03
0.0549826	0.08760	1.359e+07	9.719e+01	1.519e+17	0.35418	0.50840	0.47209	3.22e-05	1.63e-05	4.89e-03	9.08e-03
0.0555979	0.08799	1.358e+07	9.689e+01	1.514e+17	0.35724	0.50941	0.47108	3.25e-05	1.62e-05	4.89e-03	9.08e-03
0.0562172	0.08838	1.356e+07	9.658e+01	1.509e+17	0.36030	0.51042	0.47008	3.28e-05	1.62e-05	4.89e-03	9.08e-03

0.0568403	0.08876	1.355e+07	9.627e+01	1.504e+17	0.36337	0.51142	0.46907	3.31e-05	1.61e-05	4.89e-03	9.08e-03
0.0574673	0.08915	1.354e+07	9.596e+01	1.499e+17	0.36644	0.51242	0.46807	3.34e-05	1.61e-05	4.89e-03	9.08e-03
0.0580982	0.08954	1.352e+07	9.566e+01	1.494e+17	0.36952	0.51343	0.46707	3.37e-05	1.61e-05	4.89e-03	9.08e-03
0.0587324	0.08993	1.350e+07	9.535e+01	1.488e+17	0.37260	0.51443	0.46607	3.40e-05	1.60e-05	4.89e-03	9.08e-03
0.0593709	0.09031	1.349e+07	9.505e+01	1.483e+17	0.37568	0.51543	0.46507	3.43e-05	1.60e-05	4.89e-03	9.07e-03
0.0600132	0.09070	1.347e+07	9.474e+01	1.478e+17	0.37877	0.51643	0.46407	3.46e-05	1.59e-05	4.88e-03	9.07e-03
0.0606592	0.09109	1.346e+07	9.444e+01	1.473e+17	0.38185	0.51743	0.46308	3.50e-05	1.59e-05	4.88e-03	9.07e-03
0.0613095	0.09148	1.344e+07	9.413e+01	1.468e+17	0.38495	0.51842	0.46208	3.53e-05	1.59e-05	4.88e-03	9.07e-03
0.0619630	0.09187	1.343e+07	9.383e+01	1.463e+17	0.38804	0.51942	0.46109	3.56e-05	1.58e-05	4.88e-03	9.07e-03
0.0626212	0.09226	1.341e+07	9.353e+01	1.458e+17	0.39114	0.52041	0.46009	3.60e-05	1.58e-05	4.88e-03	9.07e-03
0.0632830	0.09264	1.340e+07	9.322e+01	1.453e+17	0.39424	0.52141	0.45910	3.63e-05	1.58e-05	4.88e-03	9.07e-03
0.0639485	0.09303	1.338e+07	9.292e+01	1.448e+17	0.39734	0.52240	0.45811	3.67e-05	1.57e-05	4.88e-03	9.07e-03
0.0646188	0.09342	1.337e+07	9.262e+01	1.443e+17	0.40045	0.52339	0.45712	3.70e-05	1.57e-05	4.88e-03	9.07e-03
0.0652926	0.09381	1.335e+07	9.232e+01	1.437e+17	0.40356	0.52438	0.45614	3.74e-05	1.56e-05	4.88e-03	9.07e-03
0.0659705	0.09421	1.334e+07	9.202e+01	1.432e+17	0.40667	0.52537	0.45515	3.77e-05	1.56e-05	4.88e-03	9.07e-03
0.0666526	0.09460	1.332e+07	9.172e+01	1.427e+17	0.40978	0.52636	0.45416	3.81e-05	1.56e-05	4.88e-03	9.07e-03
0.0673381	0.09499	1.331e+07	9.142e+01	1.422e+17	0.41290	0.52734	0.45318	3.84e-05	1.55e-05	4.87e-03	9.07e-03
0.0680284	0.09538	1.329e+07	9.112e+01	1.417e+17	0.41601	0.52833	0.45220	3.88e-05	1.55e-05	4.87e-03	9.07e-03
0.0687226	0.09577	1.328e+07	9.082e+01	1.412e+17	0.41913	0.52931	0.45121	3.92e-05	1.54e-05	4.87e-03	9.07e-03
0.0694209	0.09616	1.326e+07	9.052e+01	1.407e+17	0.42225	0.53029	0.45023	3.96e-05	1.54e-05	4.87e-03	9.07e-03
0.0701239	0.09656	1.325e+07	9.022e+01	1.402e+17	0.42538	0.53127	0.44925	3.99e-05	1.54e-05	4.87e-03	9.07e-03
0.0708308	0.09695	1.323e+07	8.992e+01	1.397e+17	0.42850	0.53225	0.44828	4.03e-05	1.53e-05	4.87e-03	9.07e-03
0.0715418	0.09735	1.321e+07	8.962e+01	1.392e+17	0.43163	0.53323	0.44730	4.07e-05	1.53e-05	4.87e-03	9.06e-03
0.0722573	0.09774	1.320e+07	8.933e+01	1.386e+17	0.43476	0.53421	0.44633	4.11e-05	1.52e-05	4.87e-03	9.06e-03
0.0729768	0.09813	1.318e+07	8.903e+01	1.381e+17	0.43789	0.53518	0.44535	4.15e-05	1.52e-05	4.87e-03	9.06e-03
0.0737002	0.09853	1.317e+07	8.873e+01	1.376e+17	0.44102	0.53616	0.44438	4.19e-05	1.52e-05	4.87e-03	9.06e-03
0.0744288	0.09893	1.315e+07	8.844e+01	1.371e+17	0.44416	0.53713	0.44341	4.23e-05	1.51e-05	4.87e-03	9.06e-03
0.0751613	0.09932	1.314e+07	8.814e+01	1.366e+17	0.44729	0.53810	0.44244	4.27e-05	1.51e-05	4.87e-03	9.06e-03
0.0758984	0.09972	1.312e+07	8.784e+01	1.361e+17	0.45043	0.53908	0.44147	4.31e-05	1.50e-05	4.86e-03	9.06e-03
0.0766393	0.10012	1.310e+07	8.755e+01	1.356e+17	0.45356	0.54004	0.44050	4.36e-05	1.50e-05	4.86e-03	9.06e-03
0.0773854	0.10052	1.309e+07	8.725e+01	1.351e+17	0.45670	0.54101	0.43953	4.40e-05	1.50e-05	4.86e-03	9.06e-03

0.0781354	0.10091	1.307e+07	8.696e+01	1.346e+17	0.45984	0.54198	0.43857	4.44e-05	1.49e-05	4.86e-03	9.06e-03
0.0788898	0.10131	1.306e+07	8.666e+01	1.341e+17	0.46298	0.54294	0.43761	4.48e-05	1.49e-05	4.86e-03	9.06e-03
0.0796495	0.10171	1.304e+07	8.637e+01	1.336e+17	0.46612	0.54391	0.43664	4.53e-05	1.48e-05	4.86e-03	9.06e-03
0.0804129	0.10211	1.303e+07	8.608e+01	1.331e+17	0.46927	0.54487	0.43568	4.57e-05	1.48e-05	4.86e-03	9.06e-03
0.0811815	0.10251	1.301e+07	8.578e+01	1.326e+17	0.47241	0.54583	0.43472	4.62e-05	1.48e-05	4.86e-03	9.06e-03
0.0819545	0.10292	1.299e+07	8.549e+01	1.320e+17	0.47555	0.54679	0.43377	4.66e-05	1.47e-05	4.86e-03	9.06e-03
0.0827321	0.10332	1.298e+07	8.520e+01	1.315e+17	0.47870	0.54775	0.43281	4.71e-05	1.47e-05	4.86e-03	9.05e-03
0.0835148	0.10372	1.296e+07	8.490e+01	1.310e+17	0.48184	0.54871	0.43185	4.76e-05	1.46e-05	4.86e-03	9.05e-03
0.0843019	0.10413	1.295e+07	8.461e+01	1.305e+17	0.48499	0.54966	0.43090	4.80e-05	1.46e-05	4.86e-03	9.05e-03
0.0850934	0.10453	1.293e+07	8.432e+01	1.300e+17	0.48813	0.55062	0.42995	4.85e-05	1.46e-05	4.86e-03	9.05e-03
0.0858902	0.10493	1.291e+07	8.403e+01	1.295e+17	0.49128	0.55157	0.42899	4.90e-05	1.45e-05	4.85e-03	9.05e-03
0.0866913	0.10534	1.290e+07	8.374e+01	1.290e+17	0.49442	0.55252	0.42804	4.95e-05	1.45e-05	4.85e-03	9.05e-03
0.0874976	0.10575	1.288e+07	8.344e+01	1.285e+17	0.49757	0.55347	0.42710	5.00e-05	1.44e-05	4.85e-03	9.05e-03
0.0883083	0.10615	1.287e+07	8.315e+01	1.280e+17	0.50071	0.55442	0.42615	5.05e-05	1.44e-05	4.85e-03	9.05e-03
0.0891242	0.10656	1.285e+07	8.286e+01	1.275e+17	0.50386	0.55537	0.42520	5.10e-05	1.44e-05	4.85e-03	9.05e-03
0.0899453	0.10697	1.283e+07	8.257e+01	1.270e+17	0.50700	0.55632	0.42426	5.15e-05	1.43e-05	4.85e-03	9.05e-03
0.0907715	0.10738	1.282e+07	8.228e+01	1.265e+17	0.51015	0.55726	0.42331	5.20e-05	1.43e-05	4.85e-03	9.05e-03
0.0916021	0.10779	1.280e+07	8.199e+01	1.260e+17	0.51329	0.55821	0.42237	5.25e-05	1.42e-05	4.85e-03	9.05e-03
0.0924378	0.10820	1.278e+07	8.170e+01	1.255e+17	0.51644	0.55915	0.42143	5.31e-05	1.42e-05	4.85e-03	9.04e-03
0.0932795	0.10861	1.277e+07	8.141e+01	1.250e+17	0.51958	0.56009	0.42049	5.36e-05	1.42e-05	4.85e-03	9.04e-03
0.0941256	0.10903	1.275e+07	8.112e+01	1.244e+17	0.52272	0.56103	0.41956	5.42e-05	1.41e-05	4.85e-03	9.04e-03
0.0949769	0.10944	1.273e+07	8.084e+01	1.239e+17	0.52587	0.56197	0.41862	5.47e-05	1.41e-05	4.85e-03	9.04e-03
0.0958333	0.10985	1.272e+07	8.055e+01	1.234e+17	0.52901	0.56290	0.41769	5.53e-05	1.40e-05	4.85e-03	9.04e-03
0.0966949	0.11027	1.270e+07	8.026e+01	1.229e+17	0.53215	0.56384	0.41675	5.58e-05	1.40e-05	4.85e-03	9.04e-03
0.0975626	0.11069	1.268e+07	7.997e+01	1.224e+17	0.53529	0.56477	0.41582	5.64e-05	1.40e-05	4.85e-03	9.04e-03
0.0984346	0.11110	1.267e+07	7.968e+01	1.219e+17	0.53843	0.56570	0.41489	5.70e-05	1.39e-05	4.84e-03	9.04e-03
0.0993126	0.11152	1.265e+07	7.939e+01	1.214e+17	0.54157	0.56663	0.41396	5.76e-05	1.39e-05	4.84e-03	9.04e-03
0.1001958	0.11194	1.263e+07	7.911e+01	1.209e+17	0.54470	0.56756	0.41303	5.82e-05	1.38e-05	4.84e-03	9.04e-03
0.1010851	0.11236	1.262e+07	7.882e+01	1.204e+17	0.54784	0.56849	0.41211	5.88e-05	1.38e-05	4.84e-03	9.04e-03
0.1019796	0.11278	1.260e+07	7.853e+01	1.199e+17	0.55097	0.56942	0.41118	5.94e-05	1.37e-05	4.84e-03	9.03e-03
0.1028793	0.11321	1.258e+07	7.824e+01	1.194e+17	0.55411	0.57034	0.41026	6.00e-05	1.37e-05	4.84e-03	9.03e-03

0.1037842	0.11363	1.257e+07	7.796e+01	1.189e+17	0.55724	0.57127	0.40934	6.06e-05	1.37e-05	4.84e-03	9.03e-03
0.1046952	0.11405	1.255e+07	7.767e+01	1.184e+17	0.56037	0.57219	0.40842	6.13e-05	1.36e-05	4.84e-03	9.03e-03
0.1056124	0.11448	1.253e+07	7.738e+01	1.179e+17	0.56350	0.57311	0.40750	6.19e-05	1.36e-05	4.84e-03	9.03e-03
0.1065348	0.11490	1.252e+07	7.710e+01	1.174e+17	0.56662	0.57403	0.40658	6.26e-05	1.35e-05	4.84e-03	9.03e-03
0.1074633	0.11533	1.250e+07	7.681e+01	1.169e+17	0.56975	0.57494	0.40566	6.32e-05	1.35e-05	4.84e-03	9.03e-03
0.1083971	0.11576	1.248e+07	7.652e+01	1.163e+17	0.57287	0.57586	0.40475	6.39e-05	1.35e-05	4.84e-03	9.03e-03
0.1093381	0.11619	1.246e+07	7.624e+01	1.158e+17	0.57599	0.57678	0.40384	6.46e-05	1.34e-05	4.84e-03	9.03e-03
0.1102833	0.11662	1.245e+07	7.595e+01	1.153e+17	0.57911	0.57769	0.40293	6.53e-05	1.34e-05	4.84e-03	9.03e-03
0.1112357	0.11705	1.243e+07	7.567e+01	1.148e+17	0.58223	0.57860	0.40202	6.60e-05	1.33e-05	4.84e-03	9.03e-03
0.1121935	0.11749	1.241e+07	7.538e+01	1.143e+17	0.58534	0.57951	0.40111	6.67e-05	1.33e-05	4.84e-03	9.02e-03
0.1131584	0.11792	1.240e+07	7.510e+01	1.138e+17	0.58845	0.58042	0.40020	6.74e-05	1.33e-05	4.83e-03	9.02e-03
0.1141287	0.11835	1.238e+07	7.481e+01	1.133e+17	0.59156	0.58133	0.39929	6.81e-05	1.32e-05	4.83e-03	9.02e-03
0.1151052	0.11879	1.236e+07	7.452e+01	1.128e+17	0.59467	0.58223	0.39839	6.89e-05	1.32e-05	4.83e-03	9.02e-03
0.1160881	0.11923	1.234e+07	7.424e+01	1.123e+17	0.59777	0.58313	0.39749	6.96e-05	1.31e-05	4.83e-03	9.02e-03
0.1170763	0.11967	1.233e+07	7.395e+01	1.118e+17	0.60087	0.58404	0.39659	7.04e-05	1.31e-05	4.83e-03	9.02e-03
0.1180718	0.12011	1.231e+07	7.367e+01	1.113e+17	0.60397	0.58494	0.39569	7.11e-05	1.30e-05	4.83e-03	9.02e-03
0.1190737	0.12055	1.229e+07	7.338e+01	1.108e+17	0.60707	0.58584	0.39479	7.19e-05	1.30e-05	4.83e-03	9.02e-03
0.1200831	0.12099	1.227e+07	7.310e+01	1.103e+17	0.61016	0.58673	0.39389	7.27e-05	1.30e-05	4.83e-03	9.02e-03
0.1210978	0.12144	1.226e+07	7.281e+01	1.098e+17	0.61325	0.58763	0.39300	7.35e-05	1.29e-05	4.83e-03	9.02e-03
0.1221190	0.12188	1.224e+07	7.253e+01	1.092e+17	0.61634	0.58853	0.39211	7.43e-05	1.29e-05	4.83e-03	9.01e-03
0.1231477	0.12233	1.222e+07	7.224e+01	1.087e+17	0.61942	0.58942	0.39122	7.51e-05	1.28e-05	4.83e-03	9.01e-03
0.1241828	0.12278	1.220e+07	7.196e+01	1.082e+17	0.62251	0.59031	0.39033	7.60e-05	1.28e-05	4.83e-03	9.01e-03
0.1252245	0.12323	1.218e+07	7.168e+01	1.077e+17	0.62558	0.59120	0.38944	7.68e-05	1.27e-05	4.83e-03	9.01e-03
0.1262727	0.12368	1.217e+07	7.139e+01	1.072e+17	0.62866	0.59209	0.38855	7.77e-05	1.27e-05	4.83e-03	9.01e-03
0.1273286	0.12414	1.215e+07	7.111e+01	1.067e+17	0.63173	0.59297	0.38767	7.86e-05	1.27e-05	4.83e-03	9.01e-03
0.1283910	0.12459	1.213e+07	7.082e+01	1.062e+17	0.63479	0.59386	0.38678	7.95e-05	1.26e-05	4.83e-03	9.01e-03
0.1294612	0.12505	1.211e+07	7.054e+01	1.057e+17	0.63786	0.59474	0.38590	8.04e-05	1.26e-05	4.82e-03	9.01e-03
0.1305379	0.12550	1.209e+07	7.025e+01	1.052e+17	0.64091	0.59562	0.38502	8.13e-05	1.25e-05	4.82e-03	9.01e-03
0.1316213	0.12596	1.208e+07	6.997e+01	1.047e+17	0.64397	0.59650	0.38414	8.22e-05	1.25e-05	4.82e-03	9.01e-03
0.1327138	0.12642	1.206e+07	6.968e+01	1.042e+17	0.64702	0.59738	0.38326	8.31e-05	1.24e-05	4.82e-03	9.00e-03
0.1338117	0.12689	1.204e+07	6.940e+01	1.037e+17	0.65007	0.59826	0.38239	8.41e-05	1.24e-05	4.82e-03	9.00e-03

0.1349176	0.12735	1.202e+07	6.911e+01	1.031e+17	0.65311	0.59913	0.38152	8.51e-05	1.24e-05	4.82e-03	9.00e-03
0.1360314	0.12782	1.200e+07	6.883e+01	1.026e+17	0.65615	0.60001	0.38064	8.60e-05	1.23e-05	4.82e-03	9.00e-03
0.1371520	0.12828	1.198e+07	6.854e+01	1.021e+17	0.65918	0.60088	0.37977	8.70e-05	1.23e-05	4.82e-03	9.00e-03
0.1382818	0.12875	1.197e+07	6.826e+01	1.016e+17	0.66221	0.60175	0.37891	8.81e-05	1.23e-05	4.82e-03	9.00e-03
0.1394172	0.12922	1.195e+07	6.798e+01	1.011e+17	0.66523	0.60262	0.37804	8.91e-05	1.22e-05	4.82e-03	9.00e-03
0.1405620	0.12970	1.193e+07	6.769e+01	1.006e+17	0.66825	0.60348	0.37717	9.01e-05	1.22e-05	4.82e-03	9.00e-03
0.1417137	0.13017	1.191e+07	6.741e+01	1.001e+17	0.67127	0.60435	0.37631	9.12e-05	1.22e-05	4.82e-03	9.00e-03
0.1428735	0.13065	1.189e+07	6.712e+01	9.957e+16	0.67428	0.60521	0.37545	9.23e-05	1.22e-05	4.82e-03	8.99e-03
0.1440416	0.13112	1.187e+07	6.684e+01	9.906e+16	0.67728	0.60607	0.37459	9.34e-05	1.22e-05	4.82e-03	8.99e-03
0.1452180	0.13160	1.185e+07	6.655e+01	9.855e+16	0.68028	0.60693	0.37373	9.45e-05	1.22e-05	4.82e-03	8.99e-03
0.1464027	0.13209	1.183e+07	6.627e+01	9.804e+16	0.68328	0.60779	0.37288	9.56e-05	1.23e-05	4.82e-03	8.99e-03
0.1475957	0.13257	1.182e+07	6.598e+01	9.753e+16	0.68627	0.60864	0.37202	9.68e-05	1.23e-05	4.82e-03	8.99e-03
0.1487959	0.13306	1.180e+07	6.570e+01	9.701e+16	0.68925	0.60950	0.37117	9.80e-05	1.24e-05	4.81e-03	8.99e-03
0.1500058	0.13354	1.178e+07	6.541e+01	9.650e+16	0.69223	0.61035	0.37032	9.91e-05	1.26e-05	4.81e-03	8.99e-03
0.1512243	0.13403	1.176e+07	6.513e+01	9.599e+16	0.69520	0.61120	0.36947	1.00e-04	1.27e-05	4.81e-03	8.99e-03
0.1524499	0.13452	1.174e+07	6.484e+01	9.548e+16	0.69816	0.61205	0.36862	1.02e-04	1.30e-05	4.81e-03	8.99e-03
0.1536855	0.13502	1.172e+07	6.455e+01	9.496e+16	0.70112	0.61289	0.36778	1.03e-04	1.33e-05	4.81e-03	8.98e-03
0.1549297	0.13551	1.170e+07	6.427e+01	9.445e+16	0.70408	0.61374	0.36693	1.04e-04	1.37e-05	4.81e-03	8.98e-03
0.1561827	0.13601	1.168e+07	6.398e+01	9.394e+16	0.70703	0.61458	0.36609	1.05e-04	1.41e-05	4.81e-03	8.98e-03
0.1574444	0.13651	1.166e+07	6.370e+01	9.342e+16	0.70997	0.61542	0.36525	1.07e-04	1.47e-05	4.81e-03	8.98e-03
0.1587162	0.13701	1.164e+07	6.341e+01	9.291e+16	0.71290	0.61626	0.36442	1.08e-04	1.55e-05	4.80e-03	8.98e-03
0.1599956	0.13752	1.162e+07	6.312e+01	9.239e+16	0.71583	0.61709	0.36358	1.09e-04	1.63e-05	4.80e-03	8.98e-03
0.1612852	0.13802	1.160e+07	6.284e+01	9.188e+16	0.71875	0.61793	0.36275	1.11e-04	1.74e-05	4.80e-03	8.98e-03
0.1625839	0.13853	1.158e+07	6.255e+01	9.136e+16	0.72167	0.61876	0.36192	1.12e-04	1.87e-05	4.80e-03	8.98e-03
0.1638930	0.13904	1.156e+07	6.226e+01	9.085e+16	0.72457	0.61959	0.36109	1.14e-04	2.02e-05	4.79e-03	8.98e-03
0.1652097	0.13956	1.154e+07	6.198e+01	9.033e+16	0.72748	0.62042	0.36026	1.15e-04	2.21e-05	4.79e-03	8.97e-03
0.1665384	0.14007	1.152e+07	6.169e+01	8.982e+16	0.73037	0.62125	0.35943	1.17e-04	2.42e-05	4.79e-03	8.97e-03
0.1678749	0.14059	1.150e+07	6.140e+01	8.930e+16	0.73326	0.62207	0.35861	1.18e-04	2.68e-05	4.78e-03	8.97e-03
0.1692222	0.14111	1.148e+07	6.111e+01	8.878e+16	0.73613	0.62289	0.35779	1.20e-04	2.98e-05	4.78e-03	8.97e-03
0.1705787	0.14163	1.146e+07	6.083e+01	8.827e+16	0.73901	0.62371	0.35697	1.21e-04	3.32e-05	4.77e-03	8.97e-03
0.1719461	0.14216	1.144e+07	6.054e+01	8.775e+16	0.74187	0.62453	0.35615	1.23e-04	3.72e-05	4.77e-03	8.97e-03

0.1733229	0.14269	1.142e+07	6.025e+01	8.723e+16	0.74473	0.62535	0.35534	1.24e-04	4.18e-05	4.76e-03	8.97e-03
0.1747108	0.14322	1.140e+07	5.996e+01	8.672e+16	0.74757	0.62616	0.35452	1.26e-04	4.71e-05	4.75e-03	8.97e-03
0.1761083	0.14375	1.138e+07	5.967e+01	8.620e+16	0.75041	0.62697	0.35371	1.28e-04	5.31e-05	4.74e-03	8.97e-03
0.1775169	0.14428	1.136e+07	5.939e+01	8.568e+16	0.75325	0.62778	0.35291	1.29e-04	5.99e-05	4.73e-03	8.96e-03
0.1789352	0.14482	1.134e+07	5.910e+01	8.516e+16	0.75607	0.62859	0.35210	1.31e-04	6.77e-05	4.72e-03	8.96e-03
0.1803649	0.14536	1.132e+07	5.881e+01	8.464e+16	0.75889	0.62940	0.35129	1.33e-04	7.63e-05	4.70e-03	8.96e-03
0.1818059	0.14591	1.130e+07	5.852e+01	8.412e+16	0.76169	0.63020	0.35049	1.35e-04	8.61e-05	4.69e-03	8.96e-03
0.1832569	0.14645	1.128e+07	5.823e+01	8.360e+16	0.76449	0.63100	0.34969	1.37e-04	9.69e-05	4.67e-03	8.96e-03
0.1847178	0.14700	1.126e+07	5.794e+01	8.308e+16	0.76728	0.63180	0.34889	1.38e-04	1.09e-04	4.65e-03	8.96e-03
0.1861920	0.14755	1.124e+07	5.765e+01	8.256e+16	0.77006	0.63259	0.34810	1.40e-04	1.22e-04	4.63e-03	8.96e-03
0.1876764	0.14811	1.121e+07	5.736e+01	8.204e+16	0.77283	0.63339	0.34731	1.42e-04	1.37e-04	4.61e-03	8.96e-03
0.1891725	0.14867	1.119e+07	5.707e+01	8.152e+16	0.77559	0.63418	0.34651	1.44e-04	1.53e-04	4.59e-03	8.95e-03
0.1906789	0.14923	1.117e+07	5.678e+01	8.100e+16	0.77835	0.63497	0.34573	1.46e-04	1.71e-04	4.56e-03	8.95e-03
0.1921974	0.14979	1.115e+07	5.648e+01	8.048e+16	0.78109	0.63576	0.34494	1.48e-04	1.90e-04	4.53e-03	8.95e-03
0.1937279	0.15036	1.113e+07	5.619e+01	7.996e+16	0.78382	0.63654	0.34416	1.50e-04	2.11e-04	4.50e-03	8.95e-03
0.1952706	0.15093	1.111e+07	5.590e+01	7.944e+16	0.78655	0.63732	0.34337	1.53e-04	2.33e-04	4.47e-03	8.95e-03
0.1968255	0.15150	1.109e+07	5.561e+01	7.892e+16	0.78926	0.63810	0.34259	1.55e-04	2.57e-04	4.43e-03	8.95e-03
0.1983912	0.15207	1.106e+07	5.532e+01	7.840e+16	0.79196	0.63888	0.34182	1.57e-04	2.83e-04	4.39e-03	8.95e-03
0.1999710	0.15265	1.104e+07	5.502e+01	7.787e+16	0.79466	0.63966	0.34104	1.59e-04	3.11e-04	4.35e-03	8.95e-03
0.2015616	0.15323	1.102e+07	5.473e+01	7.735e+16	0.79734	0.64043	0.34027	1.62e-04	3.41e-04	4.30e-03	8.95e-03
0.2031649	0.15382	1.100e+07	5.444e+01	7.683e+16	0.80001	0.64120	0.33950	1.64e-04	3.72e-04	4.26e-03	8.94e-03
0.2047809	0.15441	1.098e+07	5.414e+01	7.630e+16	0.80267	0.64197	0.33873	1.66e-04	4.05e-04	4.21e-03	8.94e-03
0.2064098	0.15500	1.095e+07	5.385e+01	7.578e+16	0.80532	0.64273	0.33797	1.69e-04	4.40e-04	4.16e-03	8.94e-03
0.2080517	0.15559	1.093e+07	5.355e+01	7.526e+16	0.80796	0.64349	0.33720	1.71e-04	4.77e-04	4.10e-03	8.94e-03
0.2097066	0.15619	1.091e+07	5.326e+01	7.473e+16	0.81059	0.64425	0.33644	1.74e-04	5.16e-04	4.04e-03	8.94e-03
0.2113747	0.15680	1.089e+07	5.296e+01	7.421e+16	0.81321	0.64501	0.33569	1.77e-04	5.56e-04	3.98e-03	8.94e-03
0.2130560	0.15740	1.086e+07	5.267e+01	7.368e+16	0.81581	0.64577	0.33493	1.79e-04	5.98e-04	3.92e-03	8.94e-03
0.2147489	0.15801	1.084e+07	5.237e+01	7.316e+16	0.81841	0.64652	0.33418	1.82e-04	6.42e-04	3.85e-03	8.94e-03
0.2164589	0.15862	1.082e+07	5.208e+01	7.264e+16	0.82099	0.64727	0.33343	1.85e-04	6.88e-04	3.79e-03	8.93e-03
0.2181807	0.15924	1.080e+07	5.178e+01	7.211e+16	0.82356	0.64802	0.33268	1.88e-04	7.35e-04	3.72e-03	8.93e-03
0.2199162	0.15986	1.077e+07	5.148e+01	7.158e+16	0.82612	0.64876	0.33194	1.91e-04	7.83e-04	3.64e-03	8.93e-03

0.2216655	0.16048	1.075e+07	5.119e+01	7.106e+16	0.82866	0.64950	0.33119	1.93e-04	8.33e-04	3.57e-03	8.93e-03
0.2234307	0.16111	1.073e+07	5.089e+01	7.053e+16	0.83119	0.65024	0.33046	1.97e-04	8.84e-04	3.50e-03	8.93e-03
0.2252099	0.16174	1.070e+07	5.059e+01	7.001e+16	0.83371	0.65098	0.32972	2.00e-04	9.36e-04	3.42e-03	8.93e-03
0.2270033	0.16238	1.068e+07	5.029e+01	6.948e+16	0.83622	0.65171	0.32899	2.03e-04	9.89e-04	3.34e-03	8.93e-03
0.2288110	0.16302	1.066e+07	4.999e+01	6.895e+16	0.83871	0.65244	0.32826	2.06e-04	1.04e-03	3.26e-03	8.93e-03
0.2306350	0.16366	1.063e+07	4.969e+01	6.843e+16	0.84119	0.65317	0.32753	2.09e-04	1.10e-03	3.18e-03	8.92e-03
0.2324737	0.16431	1.061e+07	4.939e+01	6.790e+16	0.84365	0.65389	0.32680	2.13e-04	1.15e-03	3.10e-03	8.92e-03
0.2343270	0.16496	1.059e+07	4.909e+01	6.737e+16	0.84611	0.65461	0.32608	2.16e-04	1.21e-03	3.02e-03	8.92e-03
0.2361950	0.16562	1.056e+07	4.879e+01	6.685e+16	0.84854	0.65533	0.32536	2.20e-04	1.27e-03	2.94e-03	8.92e-03
0.2380801	0.16628	1.054e+07	4.849e+01	6.632e+16	0.85096	0.65604	0.32465	2.24e-04	1.32e-03	2.85e-03	8.92e-03
0.2399802	0.16694	1.051e+07	4.819e+01	6.579e+16	0.85337	0.65676	0.32393	2.27e-04	1.38e-03	2.77e-03	8.92e-03
0.2418976	0.16761	1.049e+07	4.789e+01	6.526e+16	0.85576	0.65746	0.32323	2.31e-04	1.44e-03	2.69e-03	8.92e-03
0.2438302	0.16829	1.047e+07	4.759e+01	6.473e+16	0.85814	0.65817	0.32252	2.35e-04	1.49e-03	2.61e-03	8.92e-03
0.2457784	0.16896	1.044e+07	4.728e+01	6.421e+16	0.86050	0.65887	0.32182	2.39e-04	1.55e-03	2.53e-03	8.91e-03
0.2477443	0.16965	1.042e+07	4.698e+01	6.368e+16	0.86285	0.65957	0.32112	2.43e-04	1.61e-03	2.45e-03	8.91e-03
0.2497259	0.17034	1.039e+07	4.668e+01	6.315e+16	0.86518	0.66026	0.32042	2.47e-04	1.66e-03	2.37e-03	8.91e-03
0.2517256	0.17103	1.037e+07	4.637e+01	6.262e+16	0.86750	0.66095	0.31973	2.52e-04	1.72e-03	2.30e-03	8.91e-03
0.2537412	0.17173	1.034e+07	4.607e+01	6.209e+16	0.86979	0.66164	0.31904	2.56e-04	1.78e-03	2.22e-03	8.91e-03
0.2557753	0.17243	1.032e+07	4.576e+01	6.156e+16	0.87207	0.66232	0.31836	2.60e-04	1.83e-03	2.15e-03	8.91e-03
0.2578257	0.17313	1.029e+07	4.546e+01	6.103e+16	0.87434	0.66300	0.31768	2.65e-04	1.88e-03	2.08e-03	8.91e-03
0.2598925	0.17385	1.027e+07	4.515e+01	6.050e+16	0.87659	0.66368	0.31700	2.70e-04	1.94e-03	2.01e-03	8.90e-03
0.2619782	0.17456	1.024e+07	4.484e+01	5.998e+16	0.87882	0.66435	0.31633	2.75e-04	1.99e-03	1.94e-03	8.90e-03
0.2640829	0.17529	1.022e+07	4.454e+01	5.945e+16	0.88103	0.66501	0.31566	2.80e-04	2.04e-03	1.88e-03	8.90e-03
0.2662046	0.17601	1.019e+07	4.423e+01	5.892e+16	0.88323	0.66568	0.31499	2.85e-04	2.09e-03	1.82e-03	8.90e-03
0.2683456	0.17675	1.017e+07	4.392e+01	5.839e+16	0.88540	0.66634	0.31433	2.90e-04	2.14e-03	1.76e-03	8.90e-03
0.2705039	0.17748	1.014e+07	4.361e+01	5.786e+16	0.88756	0.66699	0.31367	2.95e-04	2.19e-03	1.70e-03	8.90e-03
0.2726795	0.17823	1.011e+07	4.331e+01	5.733e+16	0.88970	0.66764	0.31302	3.01e-04	2.23e-03	1.65e-03	8.90e-03
0.2748750	0.17898	1.009e+07	4.300e+01	5.680e+16	0.89183	0.66829	0.31237	3.07e-04	2.28e-03	1.60e-03	8.90e-03
0.2770907	0.17973	1.006e+07	4.269e+01	5.627e+16	0.89393	0.66893	0.31173	3.12e-04	2.32e-03	1.55e-03	8.89e-03
0.2793242	0.18049	1.004e+07	4.238e+01	5.574e+16	0.89602	0.66957	0.31109	3.18e-04	2.37e-03	1.50e-03	8.89e-03
0.2815757	0.18126	1.001e+07	4.207e+01	5.521e+16	0.89808	0.67020	0.31045	3.25e-04	2.41e-03	1.46e-03	8.89e-03

0.2838479	0.18203	9.983e+06	4.176e+01	5.469e+16	0.90013	0.67083	0.30982	3.31e-04	2.45e-03	1.42e-03	8.89e-03
0.2861384	0.18280	9.956e+06	4.145e+01	5.416e+16	0.90215	0.67145	0.30919	3.37e-04	2.49e-03	1.38e-03	8.89e-03
0.2884499	0.18359	9.930e+06	4.113e+01	5.363e+16	0.90416	0.67207	0.30857	3.44e-04	2.52e-03	1.35e-03	8.89e-03
0.2907801	0.18438	9.903e+06	4.082e+01	5.310e+16	0.90615	0.67268	0.30795	3.51e-04	2.56e-03	1.31e-03	8.89e-03
0.2931291	0.18517	9.876e+06	4.051e+01	5.258e+16	0.90811	0.67329	0.30734	3.58e-04	2.60e-03	1.28e-03	8.88e-03
0.2954997	0.18597	9.849e+06	4.020e+01	5.205e+16	0.91006	0.67390	0.30673	3.65e-04	2.63e-03	1.25e-03	8.88e-03
0.2978868	0.18678	9.821e+06	3.988e+01	5.152e+16	0.91198	0.67450	0.30613	3.72e-04	2.66e-03	1.22e-03	8.88e-03
0.3002985	0.18759	9.794e+06	3.957e+01	5.100e+16	0.91389	0.67509	0.30553	3.80e-04	2.69e-03	1.20e-03	8.88e-03
0.3027270	0.18841	9.767e+06	3.926e+01	5.047e+16	0.91577	0.67568	0.30493	3.88e-04	2.72e-03	1.18e-03	8.88e-03
0.3051779	0.18923	9.739e+06	3.894e+01	4.995e+16	0.91763	0.67627	0.30434	3.96e-04	2.75e-03	1.16e-03	8.88e-03
0.3076459	0.19007	9.711e+06	3.863e+01	4.943e+16	0.91947	0.67685	0.30376	4.04e-04	2.78e-03	1.14e-03	8.88e-03
0.3101366	0.19090	9.683e+06	3.832e+01	4.890e+16	0.92129	0.67742	0.30318	4.13e-04	2.80e-03	1.12e-03	8.87e-03
0.3126475	0.19175	9.655e+06	3.800e+01	4.838e+16	0.92309	0.67799	0.30260	4.21e-04	2.83e-03	1.10e-03	8.87e-03
0.3151787	0.19260	9.627e+06	3.769e+01	4.786e+16	0.92487	0.67855	0.30203	4.30e-04	2.85e-03	1.09e-03	8.87e-03
0.3177304	0.19345	9.599e+06	3.737e+01	4.734e+16	0.92662	0.67911	0.30147	4.40e-04	2.87e-03	1.07e-03	8.87e-03
0.3203027	0.19432	9.571e+06	3.706e+01	4.682e+16	0.92835	0.67966	0.30091	4.49e-04	2.90e-03	1.06e-03	8.87e-03
0.3228959	0.19519	9.542e+06	3.674e+01	4.630e+16	0.93006	0.68021	0.30035	4.59e-04	2.92e-03	1.05e-03	8.87e-03
0.3255101	0.19606	9.514e+06	3.642e+01	4.578e+16	0.93175	0.68076	0.29980	4.69e-04	2.93e-03	1.04e-03	8.87e-03
0.3281425	0.19695	9.485e+06	3.611e+01	4.526e+16	0.93342	0.68129	0.29926	4.80e-04	2.95e-03	1.03e-03	8.86e-03
0.3307962	0.19784	9.456e+06	3.579e+01	4.475e+16	0.93506	0.68182	0.29872	4.90e-04	2.97e-03	1.02e-03	8.86e-03
0.3334714	0.19873	9.427e+06	3.548e+01	4.423e+16	0.93668	0.68235	0.29819	5.02e-04	2.99e-03	1.02e-03	8.86e-03
0.3361683	0.19964	9.398e+06	3.516e+01	4.372e+16	0.93827	0.68287	0.29766	5.13e-04	3.00e-03	1.01e-03	8.86e-03
0.3388840	0.20055	9.369e+06	3.485e+01	4.321e+16	0.93985	0.68338	0.29714	5.25e-04	3.02e-03	1.00e-03	8.86e-03
0.3416186	0.20146	9.340e+06	3.453e+01	4.270e+16	0.94140	0.68389	0.29662	5.37e-04	3.03e-03	9.98e-04	8.86e-03
0.3443752	0.20239	9.310e+06	3.421e+01	4.219e+16	0.94292	0.68440	0.29610	5.49e-04	3.04e-03	9.93e-04	8.86e-03
0.3471541	0.20332	9.281e+06	3.390e+01	4.168e+16	0.94443	0.68489	0.29560	5.62e-04	3.05e-03	9.89e-04	8.85e-03
0.3499493	0.20425	9.251e+06	3.358e+01	4.117e+16	0.94591	0.68539	0.29510	5.76e-04	3.07e-03	9.85e-04	8.85e-03
0.3527670	0.20520	9.222e+06	3.327e+01	4.067e+16	0.94736	0.68587	0.29460	5.89e-04	3.08e-03	9.82e-04	8.85e-03
0.3556074	0.20615	9.192e+06	3.295e+01	4.017e+16	0.94880	0.68635	0.29411	6.03e-04	3.09e-03	9.78e-04	8.85e-03
0.3584644	0.20711	9.162e+06	3.264e+01	3.967e+16	0.95021	0.68683	0.29362	6.18e-04	3.09e-03	9.76e-04	8.85e-03
0.3613411	0.20807	9.132e+06	3.232e+01	3.917e+16	0.95159	0.68729	0.29314	6.33e-04	3.10e-03	9.73e-04	8.85e-03

0.3642377	0.20905	9.102e+06	3.201e+01	3.867e+16	0.95296	0.68776	0.29267	6.49e-04	3.11e-03	9.71e-04	8.85e-03
0.3671543	0.21002	9.072e+06	3.169e+01	3.817e+16	0.95430	0.68821	0.29220	6.65e-04	3.12e-03	9.69e-04	8.84e-03
0.3700911	0.21101	9.042e+06	3.138e+01	3.768e+16	0.95561	0.68866	0.29174	6.81e-04	3.13e-03	9.67e-04	8.84e-03
0.3730447	0.21200	9.011e+06	3.106e+01	3.719e+16	0.95690	0.68911	0.29128	6.98e-04	3.13e-03	9.65e-04	8.84e-03
0.3760186	0.21300	8.981e+06	3.075e+01	3.670e+16	0.95817	0.68954	0.29083	7.16e-04	3.14e-03	9.64e-04	8.84e-03
0.3790129	0.21401	8.950e+06	3.044e+01	3.621e+16	0.95942	0.68997	0.29038	7.34e-04	3.14e-03	9.63e-04	8.84e-03
0.3820244	0.21503	8.920e+06	3.012e+01	3.573e+16	0.96064	0.69040	0.28994	7.53e-04	3.15e-03	9.62e-04	8.84e-03
0.3850530	0.21605	8.889e+06	2.981e+01	3.525e+16	0.96184	0.69082	0.28950	7.73e-04	3.15e-03	9.60e-04	8.83e-03
0.3880988	0.21708	8.858e+06	2.950e+01	3.477e+16	0.96301	0.69123	0.28907	7.93e-04	3.16e-03	9.60e-04	8.83e-03
0.3911653	0.21811	8.827e+06	2.919e+01	3.429e+16	0.96416	0.69164	0.28865	8.14e-04	3.16e-03	9.59e-04	8.83e-03
0.3942490	0.21916	8.797e+06	2.888e+01	3.382e+16	0.96529	0.69204	0.28823	8.35e-04	3.17e-03	9.58e-04	8.83e-03
0.3973466	0.22021	8.766e+06	2.857e+01	3.335e+16	0.96639	0.69244	0.28782	8.57e-04	3.17e-03	9.57e-04	8.83e-03
0.4004650	0.22126	8.735e+06	2.826e+01	3.288e+16	0.96748	0.69282	0.28741	8.80e-04	3.17e-03	9.57e-04	8.83e-03
0.4035972	0.22233	8.703e+06	2.795e+01	3.241e+16	0.96853	0.69321	0.28701	9.04e-04	3.18e-03	9.56e-04	8.83e-03
0.4067469	0.22340	8.672e+06	2.765e+01	3.195e+16	0.96957	0.69358	0.28661	9.29e-04	3.18e-03	9.55e-04	8.82e-03
0.4099103	0.22447	8.641e+06	2.734e+01	3.149e+16	0.97058	0.69395	0.28622	9.54e-04	3.18e-03	9.55e-04	8.82e-03
0.4130910	0.22556	8.610e+06	2.704e+01	3.103e+16	0.97157	0.69431	0.28583	9.80e-04	3.18e-03	9.54e-04	8.82e-03
0.4162854	0.22665	8.579e+06	2.673e+01	3.058e+16	0.97254	0.69467	0.28545	1.01e-03	3.19e-03	9.54e-04	8.82e-03
0.4194972	0.22775	8.547e+06	2.643e+01	3.013e+16	0.97349	0.69502	0.28507	1.04e-03	3.19e-03	9.54e-04	8.82e-03
0.4227189	0.22885	8.516e+06	2.613e+01	2.968e+16	0.97441	0.69537	0.28470	1.07e-03	3.19e-03	9.53e-04	8.82e-03
0.4259579	0.22997	8.484e+06	2.583e+01	2.923e+16	0.97532	0.69570	0.28434	1.10e-03	3.19e-03	9.53e-04	8.82e-03
0.4292066	0.23108	8.453e+06	2.553e+01	2.879e+16	0.97620	0.69604	0.28398	1.13e-03	3.19e-03	9.53e-04	8.81e-03
0.4324724	0.23221	8.422e+06	2.523e+01	2.836e+16	0.97706	0.69636	0.28362	1.16e-03	3.19e-03	9.52e-04	8.81e-03
0.4357479	0.23334	8.390e+06	2.493e+01	2.792e+16	0.97790	0.69668	0.28327	1.19e-03	3.19e-03	9.52e-04	8.81e-03
0.4390365	0.23448	8.359e+06	2.463e+01	2.749e+16	0.97872	0.69699	0.28293	1.23e-03	3.19e-03	9.52e-04	8.81e-03
0.4423344	0.23563	8.327e+06	2.434e+01	2.707e+16	0.97951	0.69730	0.28259	1.26e-03	3.20e-03	9.51e-04	8.81e-03
0.4456454	0.23678	8.295e+06	2.405e+01	2.664e+16	0.98029	0.69760	0.28225	1.30e-03	3.20e-03	9.51e-04	8.81e-03
0.4489654	0.23793	8.264e+06	2.375e+01	2.622e+16	0.98105	0.69790	0.28192	1.34e-03	3.20e-03	9.51e-04	8.81e-03
0.4522942	0.23910	8.232e+06	2.346e+01	2.581e+16	0.98179	0.69819	0.28160	1.38e-03	3.20e-03	9.51e-04	8.80e-03
0.4556357	0.24027	8.201e+06	2.318e+01	2.540e+16	0.98250	0.69847	0.28128	1.42e-03	3.20e-03	9.50e-04	8.80e-03
0.4589817	0.24145	8.169e+06	2.289e+01	2.499e+16	0.98320	0.69874	0.28096	1.46e-03	3.20e-03	9.50e-04	8.80e-03

0.4623401	0.24263	8.138e+06	2.260e+01	2.459e+16	0.98388	0.69901	0.28065	1.51e-03	3.20e-03	9.50e-04	8.80e-03
0.4657026	0.24382	8.106e+06	2.232e+01	2.419e+16	0.98454	0.69928	0.28034	1.56e-03	3.20e-03	9.50e-04	8.80e-03
0.4690731	0.24501	8.075e+06	2.204e+01	2.379e+16	0.98519	0.69954	0.28004	1.61e-03	3.20e-03	9.50e-04	8.80e-03
0.4724514	0.24621	8.043e+06	2.176e+01	2.340e+16	0.98581	0.69979	0.27974	1.66e-03	3.20e-03	9.49e-04	8.80e-03
0.4758373	0.24742	8.012e+06	2.148e+01	2.301e+16	0.98642	0.70004	0.27944	1.71e-03	3.20e-03	9.49e-04	8.79e-03
0.4792265	0.24863	7.980e+06	2.120e+01	2.263e+16	0.98701	0.70028	0.27915	1.76e-03	3.20e-03	9.49e-04	8.79e-03
0.4826185	0.24985	7.949e+06	2.093e+01	2.225e+16	0.98759	0.70051	0.27886	1.82e-03	3.20e-03	9.49e-04	8.79e-03
0.4860176	0.25107	7.917e+06	2.065e+01	2.188e+16	0.98815	0.70074	0.27858	1.88e-03	3.20e-03	9.49e-04	8.79e-03
0.4894190	0.25230	7.886e+06	2.038e+01	2.151e+16	0.98869	0.70096	0.27830	1.94e-03	3.20e-03	9.49e-04	8.79e-03
0.4928269	0.25354	7.855e+06	2.011e+01	2.114e+16	0.98921	0.70118	0.27802	2.00e-03	3.20e-03	9.48e-04	8.79e-03
0.4962368	0.25478	7.823e+06	1.985e+01	2.078e+16	0.98972	0.70139	0.27774	2.06e-03	3.20e-03	9.48e-04	8.79e-03
0.4996439	0.25602	7.792e+06	1.958e+01	2.042e+16	0.99022	0.70160	0.27747	2.13e-03	3.20e-03	9.48e-04	8.78e-03
0.5030568	0.25727	7.761e+06	1.932e+01	2.007e+16	0.99070	0.70180	0.27720	2.20e-03	3.20e-03	9.48e-04	8.78e-03
0.5064752	0.25853	7.730e+06	1.906e+01	1.972e+16	0.99116	0.70200	0.27694	2.27e-03	3.20e-03	9.48e-04	8.78e-03
0.5098898	0.25979	7.699e+06	1.880e+01	1.938e+16	0.99161	0.70219	0.27668	2.34e-03	3.20e-03	9.48e-04	8.78e-03
0.5133051	0.26106	7.667e+06	1.854e+01	1.904e+16	0.99205	0.70238	0.27642	2.42e-03	3.20e-03	9.47e-04	8.78e-03
0.5167204	0.26233	7.636e+06	1.829e+01	1.870e+16	0.99247	0.70256	0.27617	2.49e-03	3.20e-03	9.47e-04	8.78e-03
0.5201357	0.26361	7.605e+06	1.803e+01	1.837e+16	0.99287	0.70274	0.27592	2.56e-03	3.20e-03	9.47e-04	8.78e-03
0.5235552	0.26489	7.574e+06	1.778e+01	1.804e+16	0.99326	0.70292	0.27568	2.63e-03	3.20e-03	9.47e-04	8.77e-03
0.5269693	0.26618	7.544e+06	1.753e+01	1.772e+16	0.99364	0.70308	0.27544	2.71e-03	3.19e-03	9.47e-04	8.77e-03
0.5303870	0.26747	7.513e+06	1.729e+01	1.740e+16	0.99400	0.70325	0.27521	2.78e-03	3.19e-03	9.47e-04	8.77e-03
0.5338035	0.26877	7.482e+06	1.704e+01	1.708e+16	0.99434	0.70341	0.27498	2.84e-03	3.19e-03	9.46e-04	8.77e-03
0.5372137	0.27008	7.451e+06	1.680e+01	1.677e+16	0.99468	0.70357	0.27476	2.90e-03	3.19e-03	9.46e-04	8.77e-03
0.5406267	0.27139	7.420e+06	1.656e+01	1.647e+16	0.99499	0.70373	0.27455	2.96e-03	3.19e-03	9.46e-04	8.77e-03
0.5440375	0.27270	7.390e+06	1.632e+01	1.617e+16	0.99529	0.70388	0.27435	3.01e-03	3.19e-03	9.46e-04	8.76e-03
0.5474457	0.27402	7.359e+06	1.609e+01	1.587e+16	0.99558	0.70403	0.27416	3.06e-03	3.19e-03	9.46e-04	8.76e-03
0.5508560	0.27535	7.329e+06	1.586e+01	1.557e+16	0.99585	0.70418	0.27397	3.09e-03	3.19e-03	9.46e-04	8.76e-03
0.5542582	0.27668	7.298e+06	1.562e+01	1.528e+16	0.99610	0.70433	0.27380	3.12e-03	3.19e-03	9.45e-04	8.76e-03
0.5576620	0.27802	7.268e+06	1.539e+01	1.500e+16	0.99634	0.70448	0.27363	3.14e-03	3.19e-03	9.45e-04	8.76e-03
0.5610570	0.27937	7.237e+06	1.517e+01	1.471e+16	0.99657	0.70463	0.27348	3.15e-03	3.19e-03	9.45e-04	8.76e-03
0.5644529	0.28072	7.207e+06	1.494e+01	1.444e+16	0.99678	0.70478	0.27333	3.16e-03	3.19e-03	9.45e-04	8.76e-03

0.5678393	0.28207	7.177e+06	1.472e+01	1.416e+16	0.99698	0.70492	0.27319	3.15e-03	3.19e-03	9.45e-04	8.75e-03
0.5712211	0.28343	7.146e+06	1.450e+01	1.389e+16	0.99717	0.70507	0.27306	3.14e-03	3.19e-03	9.45e-04	8.75e-03
0.5745977	0.28479	7.116e+06	1.428e+01	1.363e+16	0.99734	0.70522	0.27294	3.12e-03	3.19e-03	9.44e-04	8.75e-03
0.5779689	0.28616	7.086e+06	1.407e+01	1.336e+16	0.99750	0.70536	0.27282	3.09e-03	3.19e-03	9.44e-04	8.75e-03
0.5813292	0.28754	7.056e+06	1.385e+01	1.311e+16	0.99765	0.70551	0.27272	3.05e-03	3.19e-03	9.44e-04	8.75e-03
0.5846834	0.28892	7.026e+06	1.364e+01	1.285e+16	0.99780	0.70565	0.27262	3.01e-03	3.19e-03	9.44e-04	8.75e-03
0.5880260	0.29030	6.997e+06	1.343e+01	1.260e+16	0.99793	0.70580	0.27252	2.96e-03	3.19e-03	9.44e-04	8.75e-03
0.5913617	0.29169	6.967e+06	1.323e+01	1.236e+16	0.99805	0.70595	0.27244	2.91e-03	3.19e-03	9.44e-04	8.75e-03
0.5946850	0.29308	6.937e+06	1.302e+01	1.212e+16	0.99816	0.70609	0.27235	2.85e-03	3.19e-03	9.44e-04	8.74e-03
0.5980006	0.29447	6.908e+06	1.282e+01	1.188e+16	0.99827	0.70623	0.27227	2.79e-03	3.19e-03	9.43e-04	8.74e-03
0.6012979	0.29587	6.879e+06	1.262e+01	1.165e+16	0.99837	0.70637	0.27220	2.72e-03	3.18e-03	9.43e-04	8.74e-03
0.6045920	0.29727	6.849e+06	1.242e+01	1.142e+16	0.99846	0.70652	0.27213	2.66e-03	3.18e-03	9.43e-04	8.74e-03
0.6078668	0.29868	6.820e+06	1.223e+01	1.119e+16	0.99855	0.70666	0.27206	2.59e-03	3.18e-03	9.43e-04	8.74e-03
0.6111272	0.30009	6.791e+06	1.204e+01	1.097e+16	0.99863	0.70679	0.27199	2.52e-03	3.18e-03	9.43e-04	8.74e-03
0.6143780	0.30150	6.762e+06	1.185e+01	1.075e+16	0.99871	0.70693	0.27193	2.45e-03	3.18e-03	9.43e-04	8.74e-03
0.6176136	0.30291	6.733e+06	1.166e+01	1.054e+16	0.99878	0.70706	0.27187	2.38e-03	3.18e-03	9.43e-04	8.73e-03
0.6208336	0.30433	6.705e+06	1.148e+01	1.033e+16	0.99885	0.70720	0.27181	2.31e-03	3.18e-03	9.42e-04	8.73e-03
0.6240429	0.30575	6.676e+06	1.130e+01	1.012e+16	0.99891	0.70733	0.27175	2.24e-03	3.18e-03	9.42e-04	8.73e-03
0.6272357	0.30718	6.648e+06	1.112e+01	9.918e+15	0.99898	0.70746	0.27169	2.17e-03	3.18e-03	9.42e-04	8.73e-03
0.6304116	0.30860	6.619e+06	1.094e+01	9.719e+15	0.99903	0.70758	0.27163	2.10e-03	3.18e-03	9.42e-04	8.73e-03
0.6335702	0.31003	6.591e+06	1.077e+01	9.524e+15	0.99909	0.70771	0.27158	2.04e-03	3.18e-03	9.42e-04	8.73e-03
0.6367167	0.31146	6.563e+06	1.059e+01	9.332e+15	0.99914	0.70783	0.27152	1.97e-03	3.18e-03	9.42e-04	8.73e-03
0.6398451	0.31290	6.535e+06	1.042e+01	9.144e+15	0.99919	0.70795	0.27147	1.91e-03	3.18e-03	9.42e-04	8.73e-03
0.6429607	0.31434	6.507e+06	1.026e+01	8.959e+15	0.99923	0.70807	0.27142	1.84e-03	3.18e-03	9.42e-04	8.72e-03
0.6460573	0.31578	6.480e+06	1.009e+01	8.778e+15	0.99928	0.70819	0.27136	1.78e-03	3.18e-03	9.41e-04	8.72e-03
0.6491346	0.31722	6.452e+06	9.928e+00	8.600e+15	0.99932	0.70830	0.27131	1.72e-03	3.18e-03	9.41e-04	8.72e-03
0.6521980	0.31866	6.425e+06	9.767e+00	8.425e+15	0.99936	0.70841	0.27126	1.67e-03	3.18e-03	9.41e-04	8.72e-03
0.6552470	0.32011	6.398e+06	9.609e+00	8.254e+15	0.99940	0.70852	0.27121	1.61e-03	3.18e-03	9.41e-04	8.72e-03
0.6582757	0.32156	6.370e+06	9.453e+00	8.085e+15	0.99943	0.70863	0.27116	1.55e-03	3.18e-03	9.41e-04	8.72e-03
0.6612892	0.32302	6.343e+06	9.299e+00	7.920e+15	0.99947	0.70874	0.27111	1.50e-03	3.18e-03	9.41e-04	8.72e-03
0.6642873	0.32447	6.316e+06	9.147e+00	7.759e+15	0.99950	0.70884	0.27106	1.45e-03	3.18e-03	9.41e-04	8.72e-03

0.6672639	0.32593	6.290e+06	8.998e+00	7.600e+15	0.99953	0.70894	0.27101	1.40e-03	3.18e-03	9.40e-04	8.72e-03
0.6702303	0.32739	6.263e+06	8.851e+00	7.444e+15	0.99956	0.70904	0.27096	1.35e-03	3.17e-03	9.40e-04	8.71e-03
0.6731744	0.32885	6.236e+06	8.706e+00	7.291e+15	0.99959	0.70914	0.27091	1.31e-03	3.17e-03	9.40e-04	8.71e-03
0.6761017	0.33032	6.210e+06	8.563e+00	7.141e+15	0.99961	0.70924	0.27086	1.26e-03	3.17e-03	9.40e-04	8.71e-03
0.6790120	0.33179	6.183e+06	8.422e+00	6.994e+15	0.99964	0.70933	0.27081	1.22e-03	3.17e-03	9.40e-04	8.71e-03
0.6819049	0.33326	6.157e+06	8.283e+00	6.850e+15	0.99966	0.70942	0.27076	1.18e-03	3.17e-03	9.40e-04	8.71e-03
0.6847799	0.33473	6.131e+06	8.146e+00	6.709e+15	0.99969	0.70951	0.27071	1.14e-03	3.17e-03	9.40e-04	8.71e-03
0.6876369	0.33620	6.105e+06	8.012e+00	6.570e+15	0.99971	0.70960	0.27067	1.10e-03	3.17e-03	9.40e-04	8.71e-03
0.6904755	0.33768	6.079e+06	7.879e+00	6.435e+15	0.99973	0.70969	0.27062	1.06e-03	3.17e-03	9.39e-04	8.71e-03
0.6932954	0.33916	6.054e+06	7.748e+00	6.301e+15	0.99975	0.70978	0.27057	1.02e-03	3.17e-03	9.39e-04	8.70e-03
0.6961023	0.34065	6.028e+06	7.620e+00	6.171e+15	0.99977	0.70986	0.27052	9.89e-04	3.17e-03	9.39e-04	8.70e-03
0.6988838	0.34213	6.003e+06	7.493e+00	6.042e+15	0.99978	0.70995	0.27047	9.56e-04	3.17e-03	9.39e-04	8.70e-03
0.7016516	0.34362	5.977e+06	7.368e+00	5.917e+15	0.99980	0.71003	0.27043	9.23e-04	3.17e-03	9.39e-04	8.70e-03
0.7044058	0.34511	5.952e+06	7.245e+00	5.794e+15	0.99982	0.71011	0.27038	8.92e-04	3.17e-03	9.39e-04	8.70e-03
0.7071397	0.34660	5.927e+06	7.124e+00	5.673e+15	0.99983	0.71019	0.27033	8.62e-04	3.17e-03	9.39e-04	8.70e-03
0.7098530	0.34810	5.902e+06	7.005e+00	5.555e+15	0.99985	0.71027	0.27028	8.33e-04	3.17e-03	9.39e-04	8.70e-03
0.7125516	0.34960	5.877e+06	6.888e+00	5.439e+15	0.99986	0.71035	0.27024	8.05e-04	3.17e-03	9.38e-04	8.70e-03
0.7152292	0.35110	5.852e+06	6.772e+00	5.325e+15	0.99987	0.71042	0.27019	7.78e-04	3.17e-03	9.38e-04	8.70e-03
0.7178915	0.35260	5.827e+06	6.658e+00	5.214e+15	0.99989	0.71050	0.27014	7.52e-04	3.17e-03	9.38e-04	8.69e-03
0.7205322	0.35410	5.803e+06	6.546e+00	5.105e+15	0.99990	0.71057	0.27010	7.26e-04	3.17e-03	9.38e-04	8.69e-03
0.7231571	0.35561	5.778e+06	6.436e+00	4.998e+15	0.99991	0.71065	0.27005	7.02e-04	3.17e-03	9.38e-04	8.69e-03
0.7257661	0.35712	5.754e+06	6.327e+00	4.893e+15	0.99992	0.71072	0.27000	6.79e-04	3.17e-03	9.38e-04	8.69e-03
0.7283589	0.35864	5.730e+06	6.221e+00	4.790e+15	0.99993	0.71079	0.26996	6.57e-04	3.17e-03	9.38e-04	8.69e-03
0.7309289	0.36015	5.706e+06	6.115e+00	4.689e+15	0.99994	0.71086	0.26991	6.35e-04	3.17e-03	9.38e-04	8.69e-03
0.7334822	0.36167	5.682e+06	6.012e+00	4.591e+15	0.99995	0.71093	0.26987	6.15e-04	3.17e-03	9.38e-04	8.69e-03
0.7360185	0.36319	5.658e+06	5.910e+00	4.494e+15	0.99996	0.71100	0.26982	5.95e-04	3.17e-03	9.37e-04	8.69e-03
0.7385377	0.36472	5.634e+06	5.809e+00	4.399e+15	0.99996	0.71106	0.26977	5.75e-04	3.16e-03	9.37e-04	8.69e-03
0.7410395	0.36624	5.610e+06	5.711e+00	4.306e+15	0.99997	0.71113	0.26973	5.57e-04	3.16e-03	9.37e-04	8.69e-03
0.7435235	0.36777	5.586e+06	5.614e+00	4.215e+15	0.99998	0.71120	0.26968	5.39e-04	3.16e-03	9.37e-04	8.68e-03
0.7459897	0.36930	5.563e+06	5.518e+00	4.126e+15	0.99999	0.71126	0.26964	5.22e-04	3.16e-03	9.37e-04	8.68e-03
0.7484378	0.37084	5.540e+06	5.424e+00	4.039e+15	0.99999	0.71132	0.26959	5.05e-04	3.16e-03	9.37e-04	8.68e-03

0.7508676	0.37237	5.516e+06	5.331e+00	3.953e+15	1.00000	0.71139	0.26955	4.90e-04	3.16e-03	9.37e-04	8.68e-03
0.7532789	0.37391	5.493e+06	5.240e+00	3.869e+15	1.00000	0.71145	0.26950	4.74e-04	3.16e-03	9.37e-04	8.68e-03
0.7556711	0.37545	5.470e+06	5.150e+00	3.787e+15	1.00001	0.71151	0.26946	4.60e-04	3.16e-03	9.37e-04	8.68e-03
0.7580512	0.37700	5.447e+06	5.062e+00	3.707e+15	1.00001	0.71157	0.26941	4.46e-04	3.16e-03	9.36e-04	8.68e-03
0.7604119	0.37855	5.424e+06	4.975e+00	3.628e+15	1.00002	0.71163	0.26937	4.32e-04	3.16e-03	9.36e-04	8.68e-03
0.7627532	0.38010	5.401e+06	4.890e+00	3.551e+15	1.00002	0.71170	0.26932	4.19e-04	3.16e-03	9.36e-04	8.68e-03
0.7650816	0.38165	5.379e+06	4.806e+00	3.475e+15	1.00003	0.71175	0.26928	4.06e-04	3.16e-03	9.36e-04	8.67e-03
0.7673901	0.38320	5.356e+06	4.723e+00	3.401e+15	1.00003	0.71181	0.26923	3.94e-04	3.16e-03	9.36e-04	8.67e-03
0.7696786	0.38476	5.334e+06	4.642e+00	3.329e+15	1.00003	0.71187	0.26919	3.83e-04	3.16e-03	9.36e-04	8.67e-03
0.7719534	0.38632	5.311e+06	4.562e+00	3.258e+15	1.00004	0.71193	0.26914	3.71e-04	3.16e-03	9.36e-04	8.67e-03
0.7742079	0.38789	5.289e+06	4.483e+00	3.188e+15	1.00004	0.71199	0.26910	3.61e-04	3.16e-03	9.36e-04	8.67e-03
0.7764484	0.38945	5.267e+06	4.406e+00	3.120e+15	1.00004	0.71204	0.26905	3.50e-04	3.16e-03	9.36e-04	8.67e-03
0.7786681	0.39102	5.245e+06	4.330e+00	3.053e+15	1.00005	0.71210	0.26901	3.40e-04	3.16e-03	9.35e-04	8.67e-03
0.7808735	0.39259	5.223e+06	4.255e+00	2.988e+15	1.00005	0.71216	0.26897	3.31e-04	3.16e-03	9.35e-04	8.67e-03
0.7830647	0.39417	5.201e+06	4.181e+00	2.924e+15	1.00005	0.71221	0.26892	3.22e-04	3.16e-03	9.35e-04	8.67e-03
0.7852343	0.39574	5.179e+06	4.108e+00	2.862e+15	1.00005	0.71227	0.26888	3.13e-04	3.16e-03	9.35e-04	8.67e-03
0.7873892	0.39732	5.157e+06	4.037e+00	2.800e+15	1.00006	0.71232	0.26883	3.04e-04	3.16e-03	9.35e-04	8.66e-03
0.7895292	0.39891	5.136e+06	3.967e+00	2.740e+15	1.00006	0.71238	0.26879	2.96e-04	3.16e-03	9.35e-04	8.66e-03
0.7916541	0.40049	5.114e+06	3.898e+00	2.681e+15	1.00006	0.71243	0.26874	2.88e-04	3.16e-03	9.35e-04	8.66e-03
0.7937570	0.40208	5.093e+06	3.830e+00	2.624e+15	1.00006	0.71248	0.26870	2.81e-04	3.16e-03	9.35e-04	8.66e-03
0.7958443	0.40367	5.071e+06	3.764e+00	2.567e+15	1.00006	0.71254	0.26866	2.74e-04	3.16e-03	9.35e-04	8.66e-03
0.7979162	0.40526	5.050e+06	3.698e+00	2.512e+15	1.00006	0.71259	0.26861	2.67e-04	3.15e-03	9.34e-04	8.66e-03
0.7999723	0.40686	5.029e+06	3.634e+00	2.458e+15	1.00007	0.71264	0.26857	2.60e-04	3.15e-03	9.34e-04	8.66e-03
0.8020127	0.40846	5.008e+06	3.570e+00	2.405e+15	1.00007	0.71270	0.26853	2.53e-04	3.15e-03	9.34e-04	8.66e-03
0.8040299	0.41006	4.987e+06	3.508e+00	2.353e+15	1.00007	0.71275	0.26848	2.47e-04	3.15e-03	9.34e-04	8.66e-03
0.8060381	0.41167	4.966e+06	3.447e+00	2.302e+15	1.00007	0.71280	0.26844	2.41e-04	3.15e-03	9.34e-04	8.66e-03
0.8080301	0.41327	4.945e+06	3.386e+00	2.253e+15	1.00007	0.71285	0.26839	2.36e-04	3.15e-03	9.34e-04	8.65e-03
0.8100056	0.41489	4.924e+06	3.327e+00	2.204e+15	1.00007	0.71290	0.26835	2.30e-04	3.15e-03	9.34e-04	8.65e-03
0.8119645	0.41650	4.904e+06	3.269e+00	2.156e+15	1.00007	0.71295	0.26831	2.25e-04	3.15e-03	9.34e-04	8.65e-03
0.8139068	0.41812	4.883e+06	3.211e+00	2.110e+15	1.00007	0.71300	0.26826	2.20e-04	3.15e-03	9.34e-04	8.65e-03
0.8158321	0.41974	4.863e+06	3.155e+00	2.064e+15	1.00007	0.71305	0.26822	2.15e-04	3.15e-03	9.34e-04	8.65e-03

0.8177406	0.42136	4.842e+06	3.100e+00	2.019e+15	1.00007	0.71310	0.26818	2.10e-04	3.15e-03	9.33e-04	8.65e-03
0.8196390	0.42298	4.822e+06	3.045e+00	1.976e+15	1.00007	0.71315	0.26813	2.06e-04	3.15e-03	9.33e-04	8.65e-03
0.8215202	0.42461	4.802e+06	2.992e+00	1.933e+15	1.00007	0.71320	0.26809	2.01e-04	3.15e-03	9.33e-04	8.65e-03
0.8233840	0.42624	4.782e+06	2.939e+00	1.891e+15	1.00007	0.71325	0.26805	1.97e-04	3.15e-03	9.33e-04	8.65e-03
0.8252304	0.42788	4.762e+06	2.887e+00	1.850e+15	1.00007	0.71330	0.26801	1.93e-04	3.15e-03	9.33e-04	8.65e-03
0.8270662	0.42951	4.742e+06	2.836e+00	1.810e+15	1.00007	0.71335	0.26796	1.90e-04	3.15e-03	9.33e-04	8.65e-03
0.8288844	0.43115	4.722e+06	2.786e+00	1.771e+15	1.00007	0.71340	0.26792	1.86e-04	3.15e-03	9.33e-04	8.64e-03
0.8306847	0.43279	4.702e+06	2.737e+00	1.732e+15	1.00007	0.71345	0.26788	1.82e-04	3.15e-03	9.33e-04	8.64e-03
0.8324742	0.43444	4.682e+06	2.689e+00	1.694e+15	1.00007	0.71349	0.26783	1.79e-04	3.15e-03	9.33e-04	8.64e-03
0.8342456	0.43609	4.663e+06	2.642e+00	1.658e+15	1.00007	0.71354	0.26779	1.76e-04	3.15e-03	9.33e-04	8.64e-03
0.8360062	0.43774	4.643e+06	2.595e+00	1.622e+15	1.00007	0.71359	0.26775	1.73e-04	3.15e-03	9.32e-04	8.64e-03
0.8377483	0.43939	4.624e+06	2.549e+00	1.586e+15	1.00007	0.71364	0.26771	1.70e-04	3.15e-03	9.32e-04	8.64e-03
0.8394793	0.44105	4.604e+06	2.504e+00	1.552e+15	1.00007	0.71369	0.26766	1.67e-04	3.15e-03	9.32e-04	8.64e-03
0.8411918	0.44271	4.585e+06	2.460e+00	1.518e+15	1.00007	0.71373	0.26762	1.64e-04	3.15e-03	9.32e-04	8.64e-03
0.8428856	0.44438	4.566e+06	2.416e+00	1.485e+15	1.00007	0.71378	0.26758	1.61e-04	3.15e-03	9.32e-04	8.64e-03
0.8445753	0.44604	4.546e+06	2.373e+00	1.452e+15	1.00007	0.71383	0.26753	1.59e-04	3.15e-03	9.32e-04	8.64e-03
0.8462461	0.44771	4.527e+06	2.331e+00	1.421e+15	1.00007	0.71387	0.26749	1.56e-04	3.15e-03	9.32e-04	8.64e-03
0.8478978	0.44938	4.508e+06	2.290e+00	1.390e+15	1.00007	0.71392	0.26745	1.54e-04	3.15e-03	9.32e-04	8.63e-03
0.8495379	0.45106	4.489e+06	2.249e+00	1.359e+15	1.00007	0.71397	0.26741	1.52e-04	3.15e-03	9.32e-04	8.63e-03
0.8511662	0.45274	4.470e+06	2.209e+00	1.330e+15	1.00007	0.71401	0.26736	1.50e-04	3.15e-03	9.32e-04	8.63e-03
0.8527826	0.45442	4.452e+06	2.170e+00	1.301e+15	1.00007	0.71406	0.26732	1.48e-04	3.14e-03	9.31e-04	8.63e-03
0.8543796	0.45610	4.433e+06	2.131e+00	1.272e+15	1.00007	0.71411	0.26728	1.46e-04	3.14e-03	9.31e-04	8.63e-03
0.8559645	0.45779	4.414e+06	2.093e+00	1.244e+15	1.00007	0.71415	0.26724	1.44e-04	3.14e-03	9.31e-04	8.63e-03
0.8575373	0.45948	4.396e+06	2.056e+00	1.217e+15	1.00007	0.71420	0.26719	1.42e-04	3.14e-03	9.31e-04	8.63e-03
0.8590904	0.46117	4.377e+06	2.020e+00	1.190e+15	1.00007	0.71425	0.26715	1.40e-04	3.14e-03	9.31e-04	8.63e-03
0.8606387	0.46287	4.359e+06	1.984e+00	1.164e+15	1.00007	0.71429	0.26711	1.38e-04	3.14e-03	9.31e-04	8.63e-03
0.8621671	0.46457	4.340e+06	1.948e+00	1.139e+15	1.00007	0.71434	0.26707	1.37e-04	3.14e-03	9.31e-04	8.63e-03
0.8636830	0.46627	4.322e+06	1.914e+00	1.114e+15	1.00007	0.71438	0.26702	1.35e-04	3.14e-03	9.31e-04	8.63e-03
0.8651865	0.46798	4.304e+06	1.880e+00	1.089e+15	1.00007	0.71443	0.26698	1.34e-04	3.14e-03	9.31e-04	8.63e-03
0.8666772	0.46968	4.285e+06	1.846e+00	1.065e+15	1.00007	0.71448	0.26694	1.32e-04	3.14e-03	9.31e-04	8.62e-03
0.8681554	0.47140	4.267e+06	1.813e+00	1.042e+15	1.00007	0.71452	0.26690	1.31e-04	3.14e-03	9.31e-04	8.62e-03

0.8696131	0.47311	4.249e+06	1.781e+00	1.019e+15	1.00007	0.71457	0.26685	1.30e-04	3.14e-03	9.30e-04	8.62e-03
0.8710656	0.47483	4.231e+06	1.749e+00	9.967e+14	1.00006	0.71461	0.26681	1.28e-04	3.14e-03	9.30e-04	8.62e-03
0.8725052	0.47655	4.213e+06	1.718e+00	9.748e+14	1.00006	0.71466	0.26677	1.27e-04	3.14e-03	9.30e-04	8.62e-03
0.8739318	0.47827	4.196e+06	1.687e+00	9.534e+14	1.00006	0.71470	0.26673	1.26e-04	3.14e-03	9.30e-04	8.62e-03
0.8753377	0.48000	4.178e+06	1.657e+00	9.324e+14	1.00006	0.71475	0.26668	1.25e-04	3.14e-03	9.30e-04	8.62e-03
0.8767381	0.48173	4.160e+06	1.627e+00	9.119e+14	1.00006	0.71479	0.26664	1.24e-04	3.14e-03	9.30e-04	8.62e-03
0.8781254	0.48346	4.142e+06	1.598e+00	8.918e+14	1.00006	0.71484	0.26660	1.23e-04	3.14e-03	9.30e-04	8.62e-03
0.8794994	0.48520	4.125e+06	1.570e+00	8.722e+14	1.00006	0.71489	0.26655	1.22e-04	3.14e-03	9.30e-04	8.62e-03
0.8808601	0.48694	4.107e+06	1.541e+00	8.530e+14	1.00006	0.71493	0.26651	1.21e-04	3.14e-03	9.30e-04	8.62e-03
0.8822074	0.48868	4.090e+06	1.514e+00	8.342e+14	1.00006	0.71498	0.26647	1.20e-04	3.14e-03	9.30e-04	8.62e-03
0.8835412	0.49043	4.072e+06	1.487e+00	8.158e+14	1.00006	0.71502	0.26643	1.19e-04	3.14e-03	9.30e-04	8.61e-03
0.8848693	0.49217	4.055e+06	1.460e+00	7.978e+14	1.00006	0.71507	0.26638	1.18e-04	3.14e-03	9.30e-04	8.61e-03
0.8861838	0.49392	4.038e+06	1.434e+00	7.802e+14	1.00006	0.71511	0.26634	1.18e-04	3.14e-03	9.29e-04	8.61e-03
0.8874847	0.49568	4.021e+06	1.408e+00	7.630e+14	1.00006	0.71516	0.26630	1.17e-04	3.14e-03	9.29e-04	8.61e-03
0.8887719	0.49744	4.003e+06	1.383e+00	7.461e+14	1.00006	0.71520	0.26626	1.16e-04	3.14e-03	9.29e-04	8.61e-03
0.8900453	0.49920	3.986e+06	1.358e+00	7.296e+14	1.00006	0.71525	0.26621	1.15e-04	3.14e-03	9.29e-04	8.61e-03
0.8913127	0.50096	3.969e+06	1.334e+00	7.135e+14	1.00006	0.71529	0.26617	1.15e-04	3.14e-03	9.29e-04	8.61e-03
0.8925583	0.50273	3.952e+06	1.310e+00	6.977e+14	1.00006	0.71533	0.26613	1.14e-04	3.14e-03	9.29e-04	8.61e-03
0.8938058	0.50450	3.935e+06	1.286e+00	6.823e+14	1.00005	0.71538	0.26609	1.13e-04	3.14e-03	9.29e-04	8.61e-03
0.8950314	0.50627	3.918e+06	1.263e+00	6.672e+14	1.00005	0.71542	0.26604	1.13e-04	3.14e-03	9.29e-04	8.61e-03
0.8962507	0.50804	3.902e+06	1.241e+00	6.525e+14	1.00005	0.71547	0.26600	1.12e-04	3.14e-03	9.29e-04	8.61e-03
0.8974560	0.50982	3.885e+06	1.218e+00	6.380e+14	1.00005	0.71551	0.26596	1.12e-04	3.14e-03	9.29e-04	8.61e-03
0.8986471	0.51160	3.868e+06	1.197e+00	6.239e+14	1.00005	0.71556	0.26591	1.11e-04	3.14e-03	9.29e-04	8.61e-03
0.8998320	0.51339	3.852e+06	1.175e+00	6.101e+14	1.00005	0.71560	0.26587	1.11e-04	3.14e-03	9.29e-04	8.61e-03
0.9010104	0.51518	3.835e+06	1.154e+00	5.966e+14	1.00005	0.71565	0.26583	1.10e-04	3.13e-03	9.28e-04	8.60e-03
0.9021665	0.51697	3.818e+06	1.133e+00	5.834e+14	1.00005	0.71570	0.26579	1.10e-04	3.13e-03	9.28e-04	8.60e-03
0.9033164	0.51876	3.802e+06	1.113e+00	5.704e+14	1.00005	0.71574	0.26574	1.09e-04	3.13e-03	9.28e-04	8.60e-03
0.9044596	0.52056	3.785e+06	1.093e+00	5.578e+14	1.00005	0.71579	0.26570	1.09e-04	3.13e-03	9.28e-04	8.60e-03
0.9055884	0.52236	3.769e+06	1.073e+00	5.454e+14	1.00005	0.71583	0.26566	1.09e-04	3.13e-03	9.28e-04	8.60e-03
0.9067027	0.52416	3.753e+06	1.054e+00	5.333e+14	1.00005	0.71588	0.26561	1.08e-04	3.13e-03	9.28e-04	8.60e-03
0.9078104	0.52597	3.736e+06	1.035e+00	5.215e+14	1.00005	0.71592	0.26557	1.08e-04	3.13e-03	9.28e-04	8.60e-03

0.9089115	0.52777	3.720e+06	1.016e+00	5.099e+14	1.00005	0.71597	0.26553	1.08e-04	3.13e-03	9.28e-04	8.60e-03
0.9099979	0.52958	3.704e+06	9.982e-01	4.986e+14	1.00005	0.71601	0.26548	1.07e-04	3.13e-03	9.28e-04	8.60e-03
0.9110696	0.53140	3.688e+06	9.802e-01	4.875e+14	1.00005	0.71606	0.26544	1.07e-04	3.13e-03	9.28e-04	8.60e-03
0.9121346	0.53322	3.672e+06	9.626e-01	4.767e+14	1.00005	0.71610	0.26540	1.07e-04	3.13e-03	9.28e-04	8.60e-03
0.9131928	0.53504	3.656e+06	9.453e-01	4.661e+14	1.00004	0.71615	0.26535	1.06e-04	3.13e-03	9.28e-04	8.60e-03
0.9142361	0.53686	3.640e+06	9.283e-01	4.557e+14	1.00004	0.71619	0.26531	1.06e-04	3.13e-03	9.28e-04	8.60e-03
0.9152726	0.53869	3.624e+06	9.117e-01	4.456e+14	1.00004	0.71623	0.26527	1.06e-04	3.13e-03	9.28e-04	8.60e-03
0.9162942	0.54051	3.608e+06	8.953e-01	4.357e+14	1.00004	0.71628	0.26522	1.05e-04	3.13e-03	9.28e-04	8.60e-03
0.9173089	0.54235	3.592e+06	8.792e-01	4.260e+14	1.00004	0.71632	0.26518	1.05e-04	3.13e-03	9.27e-04	8.59e-03
0.9183165	0.54418	3.576e+06	8.634e-01	4.165e+14	1.00004	0.71637	0.26514	1.05e-04	3.13e-03	9.27e-04	8.59e-03
0.9193092	0.54602	3.560e+06	8.479e-01	4.072e+14	1.00004	0.71641	0.26509	1.05e-04	3.13e-03	9.27e-04	8.59e-03
0.9202949	0.54786	3.544e+06	8.327e-01	3.982e+14	1.00004	0.71646	0.26505	1.05e-04	3.13e-03	9.27e-04	8.59e-03
0.9212736	0.54970	3.529e+06	8.177e-01	3.893e+14	1.00004	0.71650	0.26501	1.04e-04	3.13e-03	9.27e-04	8.59e-03
0.9222370	0.55155	3.513e+06	8.031e-01	3.806e+14	1.00004	0.71654	0.26497	1.04e-04	3.13e-03	9.27e-04	8.59e-03
0.9231934	0.55340	3.497e+06	7.886e-01	3.722e+14	1.00004	0.71659	0.26492	1.04e-04	3.13e-03	9.27e-04	8.59e-03
0.9241427	0.55525	3.482e+06	7.745e-01	3.639e+14	1.00004	0.71663	0.26488	1.04e-04	3.13e-03	9.27e-04	8.59e-03
0.9250766	0.55710	3.466e+06	7.606e-01	3.558e+14	1.00004	0.71668	0.26484	1.04e-04	3.13e-03	9.27e-04	8.59e-03
0.9260033	0.55896	3.451e+06	7.470e-01	3.478e+14	1.00004	0.71672	0.26480	1.03e-04	3.13e-03	9.27e-04	8.59e-03
0.9269230	0.56082	3.435e+06	7.336e-01	3.401e+14	1.00004	0.71676	0.26476	1.03e-04	3.13e-03	9.27e-04	8.59e-03
0.9278353	0.56268	3.420e+06	7.204e-01	3.325e+14	1.00004	0.71680	0.26471	1.03e-04	3.13e-03	9.27e-04	8.59e-03
0.9287322	0.56454	3.404e+06	7.075e-01	3.251e+14	1.00004	0.71685	0.26467	1.03e-04	3.13e-03	9.27e-04	8.59e-03
0.9296300	0.56641	3.389e+06	6.948e-01	3.178e+14	1.00004	0.71689	0.26463	1.03e-04	3.13e-03	9.27e-04	8.59e-03
0.9305123	0.56828	3.374e+06	6.824e-01	3.107e+14	1.00004	0.71693	0.26459	1.03e-04	3.13e-03	9.27e-04	8.59e-03
0.9313872	0.57015	3.358e+06	6.701e-01	3.038e+14	1.00004	0.71697	0.26455	1.03e-04	3.13e-03	9.27e-04	8.59e-03
0.9322466	0.57203	3.343e+06	6.581e-01	2.970e+14	1.00003	0.71701	0.26451	1.02e-04	3.13e-03	9.27e-04	8.59e-03
0.9331068	0.57390	3.328e+06	6.464e-01	2.904e+14	1.00003	0.71705	0.26447	1.02e-04	3.13e-03	9.27e-04	8.59e-03
0.9339514	0.57578	3.313e+06	6.348e-01	2.839e+14	1.00003	0.71709	0.26444	1.02e-04	3.13e-03	9.27e-04	8.59e-03
0.9347885	0.57767	3.298e+06	6.234e-01	2.775e+14	1.00003	0.71713	0.26440	1.02e-04	3.13e-03	9.27e-04	8.59e-03
0.9356182	0.57955	3.282e+06	6.123e-01	2.713e+14	1.00003	0.71716	0.26436	1.02e-04	3.13e-03	9.27e-04	8.59e-03
0.9364403	0.58144	3.267e+06	6.014e-01	2.653e+14	1.00003	0.71720	0.26432	1.02e-04	3.13e-03	9.27e-04	8.59e-03
0.9372551	0.58333	3.252e+06	5.906e-01	2.593e+14	1.00003	0.71724	0.26429	1.02e-04	3.13e-03	9.27e-04	8.59e-03

0.9380621	0.58522	3.237e+06	5.801e-01	2.535e+14	1.00003	0.71727	0.26425	1.02e-04	3.13e-03	9.27e-04	8.59e-03
0.9388618	0.58711	3.222e+06	5.697e-01	2.479e+14	1.00003	0.71730	0.26422	1.02e-04	3.13e-03	9.27e-04	8.59e-03
0.9396455	0.58901	3.207e+06	5.596e-01	2.423e+14	1.00003	0.71734	0.26418	1.02e-04	3.13e-03	9.27e-04	8.59e-03
0.9404299	0.59091	3.192e+06	5.496e-01	2.369e+14	1.00003	0.71737	0.26415	1.01e-04	3.13e-03	9.27e-04	8.59e-03
0.9411985	0.59281	3.177e+06	5.398e-01	2.316e+14	1.00003	0.71740	0.26412	1.01e-04	3.13e-03	9.27e-04	8.59e-03
0.9419676	0.59471	3.162e+06	5.302e-01	2.264e+14	1.00003	0.71743	0.26409	1.01e-04	3.13e-03	9.27e-04	8.59e-03
0.9427208	0.59662	3.147e+06	5.208e-01	2.213e+14	1.00003	0.71746	0.26406	1.01e-04	3.13e-03	9.27e-04	8.59e-03
0.9434664	0.59852	3.132e+06	5.115e-01	2.164e+14	1.00003	0.71749	0.26403	1.00e-04	3.13e-03	9.27e-04	8.59e-03
0.9442125	0.60043	3.117e+06	5.025e-01	2.115e+14	1.00003	0.71752	0.26400	1.00e-04	3.13e-03	9.27e-04	8.59e-03
0.9449427	0.60234	3.103e+06	4.935e-01	2.068e+14	1.00003	0.71754	0.26397	1.00e-04	3.13e-03	9.27e-04	8.59e-03
0.9456650	0.60426	3.088e+06	4.848e-01	2.022e+14	1.00003	0.71757	0.26394	1.00e-04	3.13e-03	9.27e-04	8.59e-03
0.9463880	0.60617	3.073e+06	4.762e-01	1.976e+14	1.00003	0.71760	0.26392	1.00e-04	3.13e-03	9.27e-04	8.59e-03
0.9470948	0.60809	3.058e+06	4.678e-01	1.932e+14	1.00003	0.71762	0.26389	1.00e-04	3.13e-03	9.27e-04	8.59e-03
0.9478022	0.61001	3.043e+06	4.595e-01	1.889e+14	1.00003	0.71764	0.26386	1.00e-04	3.13e-03	9.28e-04	8.60e-03
0.9484934	0.61193	3.028e+06	4.514e-01	1.846e+14	1.00003	0.71767	0.26384	1.00e-04	3.13e-03	9.28e-04	8.60e-03
0.9491852	0.61385	3.014e+06	4.434e-01	1.805e+14	1.00003	0.71769	0.26381	1.00e-04	3.13e-03	9.28e-04	8.60e-03
0.9498607	0.61577	2.999e+06	4.356e-01	1.764e+14	1.00003	0.71772	0.26378	1.00e-04	3.13e-03	9.28e-04	8.60e-03
0.9505368	0.61770	2.984e+06	4.279e-01	1.725e+14	1.00003	0.71774	0.26375	1.00e-04	3.13e-03	9.28e-04	8.60e-03
0.9512049	0.61962	2.969e+06	4.204e-01	1.686e+14	1.00002	0.71777	0.26372	1.00e-04	3.13e-03	9.28e-04	8.60e-03
0.9518569	0.62155	2.954e+06	4.130e-01	1.648e+14	1.00002	0.71779	0.26369	1.00e-04	3.14e-03	9.29e-04	8.61e-03
0.9525092	0.62348	2.940e+06	4.058e-01	1.611e+14	1.00002	0.71782	0.26366	1.00e-04	3.14e-03	9.29e-04	8.61e-03
0.9531536	0.62541	2.925e+06	3.987e-01	1.575e+14	1.00002	0.71785	0.26362	1.00e-04	3.14e-03	9.29e-04	8.61e-03
0.9537985	0.62734	2.910e+06	3.917e-01	1.540e+14	1.00002	0.71789	0.26358	1.00e-04	3.14e-03	9.30e-04	8.61e-03
0.9544271	0.62927	2.895e+06	3.848e-01	1.505e+14	1.00002	0.71793	0.26354	1.00e-04	3.14e-03	9.30e-04	8.62e-03
0.9550477	0.63121	2.880e+06	3.781e-01	1.471e+14	1.00002	0.71797	0.26349	1.00e-04	3.14e-03	9.30e-04	8.62e-03
0.9556686	0.63314	2.865e+06	3.715e-01	1.438e+14	1.00002	0.71802	0.26343	1.00e-04	3.14e-03	9.31e-04	8.62e-03
0.9562816	0.63508	2.851e+06	3.650e-01	1.406e+14	1.00002	0.71807	0.26336	1.00e-04	3.14e-03	9.31e-04	8.63e-03
0.9568782	0.63701	2.836e+06	3.587e-01	1.374e+14	1.00002	0.71814	0.26329	1.00e-04	3.15e-03	9.32e-04	8.63e-03
0.9574751	0.63895	2.821e+06	3.525e-01	1.343e+14	1.00002	0.71821	0.26321	1.00e-04	3.15e-03	9.32e-04	8.64e-03
0.9580724	0.64089	2.806e+06	3.463e-01	1.313e+14	1.00002	0.71829	0.26311	1.00e-04	3.15e-03	9.33e-04	8.64e-03
0.9586533	0.64283	2.791e+06	3.404e-01	1.284e+14	1.00002	0.71839	0.26300	1.00e-04	3.15e-03	9.33e-04	8.65e-03

0.9592344	0.64477	2.776e+06	3.345e-01	1.255e+14	1.00002	0.71849	0.26288	1.00e-04	3.15e-03	9.34e-04	8.66e-03
0.9597992	0.64671	2.761e+06	3.287e-01	1.227e+14	1.00002	0.71861	0.26274	1.00e-04	3.16e-03	9.35e-04	8.67e-03
0.9603642	0.64865	2.746e+06	3.230e-01	1.199e+14	1.00002	0.71875	0.26259	1.00e-04	3.16e-03	9.36e-04	8.67e-03
0.9609295	0.65059	2.731e+06	3.175e-01	1.172e+14	1.00002	0.71891	0.26241	1.00e-04	3.16e-03	9.37e-04	8.68e-03
0.9614783	0.65253	2.716e+06	3.120e-01	1.146e+14	1.00002	0.71908	0.26222	1.00e-04	3.17e-03	9.38e-04	8.69e-03
0.9620274	0.65447	2.700e+06	3.067e-01	1.120e+14	1.00002	0.71928	0.26199	1.00e-04	3.17e-03	9.39e-04	8.70e-03
0.9625683	0.65641	2.685e+06	3.014e-01	1.095e+14	1.00002	0.71950	0.26175	1.00e-04	3.18e-03	9.41e-04	8.72e-03
0.9631011	0.65835	2.670e+06	2.963e-01	1.070e+14	1.00002	0.71975	0.26147	1.00e-04	3.18e-03	9.42e-04	8.73e-03
0.9636258	0.66029	2.654e+06	2.913e-01	1.046e+14	1.00002	0.72002	0.26116	1.00e-04	3.19e-03	9.44e-04	8.75e-03
0.9641507	0.66223	2.639e+06	2.863e-01	1.022e+14	1.00002	0.72032	0.26082	1.00e-04	3.19e-03	9.46e-04	8.77e-03
0.9646674	0.66417	2.623e+06	2.815e-01	9.994e+13	1.00002	0.72066	0.26044	1.00e-04	3.20e-03	9.48e-04	8.78e-03
0.9651759	0.66611	2.607e+06	2.767e-01	9.768e+13	1.00002	0.72103	0.26004	1.00e-04	3.21e-03	9.50e-04	8.80e-03
0.9656762	0.66805	2.592e+06	2.720e-01	9.548e+13	1.00002	0.72143	0.25962	1.00e-04	3.21e-03	9.50e-04	8.81e-03
0.9661768	0.66999	2.576e+06	2.675e-01	9.333e+13	1.00002	0.72187	0.25919	1.00e-04	3.21e-03	9.51e-04	8.81e-03
0.9666692	0.67192	2.560e+06	2.630e-01	9.123e+13	1.00002	0.72233	0.25875	1.00e-04	3.20e-03	9.49e-04	8.80e-03
0.9671533	0.67386	2.544e+06	2.586e-01	8.917e+13	1.00002	0.72283	0.25832	1.00e-04	3.19e-03	9.46e-04	8.77e-03
0.9676377	0.67580	2.527e+06	2.543e-01	8.716e+13	1.00002	0.72334	0.25788	1.00e-04	3.18e-03	9.42e-04	8.73e-03
0.9681137	0.67773	2.511e+06	2.501e-01	8.520e+13	1.00002	0.72389	0.25742	1.00e-04	3.17e-03	9.38e-04	8.69e-03
0.9685815	0.67966	2.495e+06	2.459e-01	8.328e+13	1.00002	0.72445	0.25693	1.00e-04	3.15e-03	9.34e-04	8.65e-03
0.9690496	0.68159	2.478e+06	2.419e-01	8.140e+13	1.00002	0.72504	0.25642	1.00e-04	3.14e-03	9.30e-04	8.62e-03
0.9695094	0.68352	2.462e+06	2.379e-01	7.956e+13	1.00002	0.72566	0.25588	1.00e-04	3.13e-03	9.26e-04	8.58e-03
0.9699607	0.68545	2.445e+06	2.340e-01	7.777e+13	1.00002	0.72630	0.25532	1.00e-04	3.11e-03	9.22e-04	8.54e-03
0.9704039	0.68737	2.429e+06	2.302e-01	7.602e+13	1.00002	0.72696	0.25473	1.00e-04	3.10e-03	9.18e-04	8.51e-03
0.9708472	0.68929	2.412e+06	2.264e-01	7.430e+13	1.00002	0.72765	0.25412	1.00e-04	3.09e-03	9.14e-04	8.47e-03
0.9712908	0.69122	2.395e+06	2.228e-01	7.262e+13	1.00001	0.72837	0.25348	1.00e-04	3.07e-03	9.10e-04	8.44e-03
0.9717174	0.69312	2.378e+06	2.192e-01	7.100e+13	1.00001	0.72911	0.25282	1.00e-04	3.06e-03	9.06e-04	8.40e-03
0.9721528	0.69505	2.361e+06	2.157e-01	6.938e+13	1.00001	0.72989	0.25212	1.00e-04	3.05e-03	9.02e-04	8.36e-03
0.9722638	0.69555	2.356e+06	2.148e-01	6.897e+13	1.00001	0.73009	0.25194	1.00e-04	3.04e-03	9.01e-04	8.35e-03
0.9723664	0.69603	2.352e+06	2.139e-01	6.858e+13	1.00001	0.73029	0.25176	1.00e-04	3.04e-03	9.00e-04	8.34e-03
0.9724689	0.69650	2.348e+06	2.131e-01	6.819e+13	1.00001	0.73049	0.25158	1.00e-04	3.04e-03	8.99e-04	8.33e-03
0.9725714	0.69697	2.344e+06	2.122e-01	6.781e+13	1.00001	0.73069	0.25140	1.00e-04	3.03e-03	8.98e-04	8.32e-03

0.9726738	0.69745	2.339e+06	2.114e-01	6.743e+13	1.00001	0.73089	0.25122	1.00e-04	3.03e-03	8.97e-04	8.31e-03
0.9727764	0.69792	2.335e+06	2.105e-01	6.704e+13	1.00001	0.73109	0.25104	1.00e-04	3.03e-03	8.96e-04	8.31e-03
0.9728875	0.69839	2.331e+06	2.097e-01	6.667e+13	1.00001	0.73129	0.25085	1.00e-04	3.02e-03	8.95e-04	8.30e-03
0.9729900	0.69887	2.326e+06	2.089e-01	6.629e+13	1.00001	0.73150	0.25067	1.00e-04	3.02e-03	8.94e-04	8.29e-03
0.9730926	0.69934	2.322e+06	2.081e-01	6.592e+13	1.00001	0.73171	0.25048	1.00e-04	3.02e-03	8.93e-04	8.28e-03
0.9731951	0.69981	2.318e+06	2.073e-01	6.554e+13	1.00001	0.73192	0.25029	1.00e-04	3.01e-03	8.92e-04	8.27e-03
0.9732978	0.70028	2.313e+06	2.064e-01	6.518e+13	1.00001	0.73213	0.25010	1.00e-04	3.01e-03	8.91e-04	8.26e-03
0.9733918	0.70075	2.309e+06	2.056e-01	6.481e+13	1.00001	0.73234	0.24991	1.00e-04	3.00e-03	8.90e-04	8.25e-03
0.9734944	0.70123	2.304e+06	2.048e-01	6.444e+13	1.00001	0.73256	0.24972	1.00e-04	3.00e-03	8.89e-04	8.24e-03
0.9735970	0.70170	2.300e+06	2.040e-01	6.408e+13	1.00001	0.73278	0.24952	1.00e-04	3.00e-03	8.88e-04	8.23e-03
0.9736996	0.70217	2.296e+06	2.033e-01	6.372e+13	1.00001	0.73299	0.24932	1.00e-04	2.99e-03	8.87e-04	8.22e-03
0.9738023	0.70264	2.291e+06	2.025e-01	6.336e+13	1.00001	0.73321	0.24913	1.00e-04	2.99e-03	8.86e-04	8.21e-03
0.9738964	0.70311	2.287e+06	2.017e-01	6.300e+13	1.00001	0.73344	0.24892	1.00e-04	2.99e-03	8.85e-04	8.20e-03
0.9739991	0.70358	2.282e+06	2.009e-01	6.264e+13	1.00001	0.73366	0.24872	1.00e-04	2.98e-03	8.83e-04	8.19e-03
0.9741017	0.70405	2.278e+06	2.001e-01	6.229e+13	1.00001	0.73389	0.24852	1.00e-04	2.98e-03	8.82e-04	8.18e-03
0.9741958	0.70452	2.273e+06	1.994e-01	6.194e+13	1.00001	0.73411	0.24831	1.00e-04	2.98e-03	8.81e-04	8.17e-03
0.9742985	0.70499	2.269e+06	1.986e-01	6.159e+13	1.00001	0.73434	0.24810	1.00e-04	2.97e-03	8.80e-04	8.16e-03
0.9743927	0.70546	2.264e+06	1.978e-01	6.124e+13	1.00001	0.73457	0.24790	1.00e-04	2.97e-03	8.79e-04	8.15e-03
0.9744954	0.70593	2.260e+06	1.971e-01	6.090e+13	1.00001	0.73481	0.24769	1.00e-04	2.96e-03	8.78e-04	8.13e-03
0.9745895	0.70640	2.255e+06	1.963e-01	6.055e+13	1.00001	0.73504	0.24748	1.00e-04	2.96e-03	8.77e-04	8.12e-03
0.9746837	0.70686	2.251e+06	1.956e-01	6.021e+13	1.00001	0.73528	0.24726	1.00e-04	2.96e-03	8.75e-04	8.11e-03
0.9747865	0.70733	2.246e+06	1.949e-01	5.987e+13	1.00001	0.73552	0.24705	1.00e-04	2.95e-03	8.74e-04	8.10e-03
0.9748806	0.70780	2.241e+06	1.941e-01	5.953e+13	1.00001	0.73576	0.24683	1.00e-04	2.95e-03	8.73e-04	8.09e-03
0.9749748	0.70827	2.237e+06	1.934e-01	5.920e+13	1.00001	0.73600	0.24661	1.00e-04	2.94e-03	8.72e-04	8.08e-03
0.9750776	0.70873	2.232e+06	1.927e-01	5.886e+13	1.00001	0.73625	0.24639	1.00e-04	2.94e-03	8.71e-04	8.07e-03
0.9751718	0.70920	2.228e+06	1.919e-01	5.853e+13	1.00001	0.73650	0.24616	1.00e-04	2.94e-03	8.69e-04	8.06e-03
0.9752660	0.70967	2.223e+06	1.912e-01	5.820e+13	1.00001	0.73674	0.24594	1.00e-04	2.93e-03	8.68e-04	8.05e-03
0.9753602	0.71013	2.218e+06	1.905e-01	5.787e+13	1.00001	0.73700	0.24571	1.00e-04	2.93e-03	8.67e-04	8.03e-03
0.9754545	0.71060	2.214e+06	1.898e-01	5.755e+13	1.00001	0.73725	0.24548	1.00e-04	2.92e-03	8.66e-04	8.02e-03
0.9755487	0.71106	2.209e+06	1.891e-01	5.722e+13	1.00001	0.73751	0.24525	1.00e-04	2.92e-03	8.64e-04	8.01e-03
0.9756516	0.71153	2.204e+06	1.884e-01	5.690e+13	1.00001	0.73776	0.24502	1.00e-04	2.91e-03	8.63e-04	8.00e-03

0.9757459	0.71200	2.199e+06	1.877e-01	5.658e+13	1.00001	0.73802	0.24479	1.00e-04	2.91e-03	8.62e-04	7.98e-03
0.9758316	0.71246	2.195e+06	1.870e-01	5.626e+13	1.00001	0.73829	0.24455	1.00e-04	2.91e-03	8.60e-04	7.97e-03
0.9759258	0.71292	2.190e+06	1.863e-01	5.594e+13	1.00001	0.73855	0.24432	1.00e-04	2.90e-03	8.59e-04	7.96e-03
0.9760202	0.71339	2.185e+06	1.857e-01	5.563e+13	1.00001	0.73882	0.24408	1.00e-04	2.90e-03	8.58e-04	7.95e-03
0.9761145	0.71385	2.180e+06	1.850e-01	5.531e+13	1.00001	0.73908	0.24383	1.00e-04	2.89e-03	8.57e-04	7.94e-03
0.9762088	0.71431	2.175e+06	1.843e-01	5.500e+13	1.00001	0.73936	0.24359	1.00e-04	2.89e-03	8.55e-04	7.92e-03
0.9763032	0.71478	2.170e+06	1.837e-01	5.469e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9763975	0.71525	2.166e+06	1.830e-01	5.437e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9764918	0.71572	2.161e+06	1.824e-01	5.406e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9765862	0.71619	2.156e+06	1.818e-01	5.375e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9766719	0.71665	2.151e+06	1.811e-01	5.345e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9767663	0.71712	2.146e+06	1.805e-01	5.314e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9768606	0.71758	2.141e+06	1.799e-01	5.284e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9769551	0.71805	2.136e+06	1.793e-01	5.253e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9770409	0.71852	2.131e+06	1.787e-01	5.223e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9771353	0.71898	2.127e+06	1.780e-01	5.193e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9772211	0.71944	2.122e+06	1.774e-01	5.164e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9773155	0.71991	2.117e+06	1.768e-01	5.134e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9774014	0.72037	2.112e+06	1.762e-01	5.105e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9774958	0.72083	2.107e+06	1.756e-01	5.076e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9775817	0.72129	2.103e+06	1.750e-01	5.047e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9776762	0.72176	2.098e+06	1.744e-01	5.018e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9777620	0.72222	2.093e+06	1.738e-01	4.989e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9778479	0.72268	2.088e+06	1.732e-01	4.961e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9779424	0.72314	2.084e+06	1.726e-01	4.932e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9780284	0.72360	2.079e+06	1.720e-01	4.904e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9781142	0.72406	2.074e+06	1.714e-01	4.876e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9782001	0.72451	2.069e+06	1.708e-01	4.848e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9782947	0.72497	2.065e+06	1.702e-01	4.820e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9783806	0.72543	2.060e+06	1.697e-01	4.793e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9784665	0.72589	2.055e+06	1.691e-01	4.765e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03

0.9785525	0.72634	2.051e+06	1.685e-01	4.738e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9786385	0.72680	2.046e+06	1.679e-01	4.711e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9787244	0.72725	2.041e+06	1.673e-01	4.684e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9788104	0.72771	2.037e+06	1.668e-01	4.657e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9788964	0.72816	2.032e+06	1.662e-01	4.631e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9789823	0.72862	2.028e+06	1.656e-01	4.604e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9790684	0.72907	2.023e+06	1.650e-01	4.578e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9791458	0.72952	2.018e+06	1.645e-01	4.552e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9792318	0.72997	2.014e+06	1.639e-01	4.526e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9793178	0.73043	2.009e+06	1.633e-01	4.500e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9794038	0.73088	2.005e+06	1.628e-01	4.474e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9794813	0.73131	2.000e+06	1.622e-01	4.449e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9795156	0.73151	1.998e+06	1.620e-01	4.438e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9796534	0.73223	1.991e+06	1.611e-01	4.397e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9799803	0.73402	1.973e+06	1.589e-01	4.298e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9802989	0.73579	1.955e+06	1.567e-01	4.201e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9806175	0.73756	1.938e+06	1.546e-01	4.106e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9809362	0.73932	1.920e+06	1.525e-01	4.014e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9812465	0.74107	1.903e+06	1.504e-01	3.923e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9815482	0.74282	1.886e+06	1.484e-01	3.834e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9818500	0.74455	1.869e+06	1.463e-01	3.748e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9821433	0.74628	1.852e+06	1.443e-01	3.663e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9824367	0.74800	1.835e+06	1.424e-01	3.581e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9827301	0.74971	1.819e+06	1.404e-01	3.500e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9830149	0.75141	1.802e+06	1.385e-01	3.421e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9832913	0.75311	1.786e+06	1.366e-01	3.343e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9835677	0.75479	1.770e+06	1.348e-01	3.268e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9838442	0.75647	1.754e+06	1.329e-01	3.194e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9841121	0.75814	1.738e+06	1.311e-01	3.122e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9843802	0.75980	1.723e+06	1.293e-01	3.051e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9846396	0.76146	1.707e+06	1.276e-01	2.983e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03

0.9848991	0.76310	1.692e+06	1.258e-01	2.915e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9851500	0.76474	1.677e+06	1.241e-01	2.849e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9854010	0.76637	1.662e+06	1.224e-01	2.785e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9856520	0.76799	1.647e+06	1.208e-01	2.722e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9858944	0.76960	1.632e+06	1.191e-01	2.660e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9861370	0.77121	1.617e+06	1.175e-01	2.600e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9863709	0.77280	1.602e+06	1.159e-01	2.542e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9866049	0.77439	1.588e+06	1.143e-01	2.484e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9868302	0.77597	1.574e+06	1.127e-01	2.428e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9870555	0.77754	1.560e+06	1.112e-01	2.373e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9872810	0.77911	1.546e+06	1.097e-01	2.319e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9874978	0.78066	1.532e+06	1.082e-01	2.267e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9877147	0.78221	1.518e+06	1.067e-01	2.216e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9879317	0.78375	1.504e+06	1.053e-01	2.166e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9881399	0.78528	1.491e+06	1.038e-01	2.117e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9883482	0.78680	1.477e+06	1.024e-01	2.069e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9885480	0.78831	1.464e+06	1.010e-01	2.022e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9887477	0.78982	1.451e+06	9.962e-02	1.976e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9889475	0.79132	1.438e+06	9.826e-02	1.932e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9891385	0.79281	1.425e+06	9.692e-02	1.888e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9893297	0.79429	1.412e+06	9.560e-02	1.845e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9895209	0.79576	1.399e+06	9.429e-02	1.803e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9897034	0.79723	1.386e+06	9.300e-02	1.763e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9898860	0.79868	1.374e+06	9.173e-02	1.723e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9900686	0.80013	1.362e+06	9.048e-02	1.684e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9902426	0.80157	1.349e+06	8.924e-02	1.646e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9904165	0.80300	1.337e+06	8.802e-02	1.608e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9905906	0.80443	1.325e+06	8.682e-02	1.572e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9907559	0.80584	1.313e+06	8.564e-02	1.536e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9909300	0.80725	1.301e+06	8.447e-02	1.502e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9910866	0.80865	1.289e+06	8.331e-02	1.468e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03

0.9912520	0.81004	1.278e+06	8.217e-02	1.434e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9914088	0.81142	1.266e+06	8.105e-02	1.402e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9915656	0.81280	1.255e+06	7.994e-02	1.370e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9917136	0.81417	1.244e+06	7.885e-02	1.339e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9918705	0.81553	1.232e+06	7.777e-02	1.309e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9920186	0.81688	1.221e+06	7.671e-02	1.279e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9921580	0.81822	1.210e+06	7.566e-02	1.250e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9923061	0.81956	1.199e+06	7.463e-02	1.222e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9924456	0.82088	1.189e+06	7.361e-02	1.194e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9925851	0.82220	1.178e+06	7.260e-02	1.167e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9927159	0.82351	1.167e+06	7.161e-02	1.141e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9928554	0.82482	1.157e+06	7.063e-02	1.115e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9929863	0.82611	1.146e+06	6.967e-02	1.090e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9931171	0.82740	1.136e+06	6.872e-02	1.065e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9932392	0.82868	1.126e+06	6.778e-02	1.041e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9933701	0.82995	1.115e+06	6.685e-02	1.017e+13	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9934922	0.83121	1.105e+06	6.594e-02	9.943e+12	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9936144	0.83247	1.095e+06	6.504e-02	9.717e+12	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9937279	0.83372	1.086e+06	6.415e-02	9.497e+12	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9938501	0.83496	1.076e+06	6.327e-02	9.282e+12	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9939635	0.83619	1.066e+06	6.241e-02	9.072e+12	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9940771	0.83742	1.056e+06	6.155e-02	8.866e+12	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9941906	0.83864	1.047e+06	6.071e-02	8.665e+12	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9942954	0.83985	1.037e+06	5.988e-02	8.469e+12	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9944090	0.84105	1.028e+06	5.906e-02	8.277e+12	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9945138	0.84224	1.019e+06	5.826e-02	8.089e+12	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9946187	0.84343	1.010e+06	5.746e-02	7.906e+12	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9947147	0.84461	1.000e+06	5.668e-02	7.727e+12	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9948196	0.84578	9.914e+05	5.590e-02	7.552e+12	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9949157	0.84694	9.825e+05	5.514e-02	7.381e+12	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9950118	0.84810	9.736e+05	5.438e-02	7.213e+12	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03

0.9951080	0.84925	9.648e+05	5.364e-02	7.050e+12	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9952041	0.85039	9.561e+05	5.291e-02	6.890e+12	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9952915	0.85152	9.475e+05	5.218e-02	6.734e+12	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9953877	0.85265	9.389e+05	5.147e-02	6.581e+12	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9954751	0.85377	9.304e+05	5.077e-02	6.432e+12	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9955626	0.85488	9.220e+05	5.007e-02	6.286e+12	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9956500	0.85599	9.137e+05	4.939e-02	6.144e+12	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9957287	0.85708	9.054e+05	4.871e-02	6.005e+12	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9958162	0.85817	8.973e+05	4.805e-02	5.868e+12	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9958949	0.85926	8.892e+05	4.739e-02	5.735e+12	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9959736	0.86033	8.811e+05	4.674e-02	5.605e+12	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9960524	0.86140	8.732e+05	4.610e-02	5.478e+12	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9961311	0.86246	8.653e+05	4.547e-02	5.354e+12	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9962012	0.86352	8.575e+05	4.485e-02	5.233e+12	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9962799	0.86456	8.497e+05	4.424e-02	5.114e+12	1.00001	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9963499	0.86560	8.421e+05	4.363e-02	4.998e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9964199	0.86663	8.345e+05	4.304e-02	4.885e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9964899	0.86766	8.269e+05	4.245e-02	4.774e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9965600	0.86868	8.195e+05	4.187e-02	4.666e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9966300	0.86969	8.121e+05	4.130e-02	4.560e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9967000	0.87069	8.047e+05	4.073e-02	4.456e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9967613	0.87169	7.975e+05	4.018e-02	4.355e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9968226	0.87268	7.903e+05	3.963e-02	4.257e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9968839	0.87367	7.831e+05	3.908e-02	4.160e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9969539	0.87464	7.761e+05	3.855e-02	4.066e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9970065	0.87561	7.691e+05	3.802e-02	3.973e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9970678	0.87658	7.621e+05	3.750e-02	3.883e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9971291	0.87753	7.552e+05	3.699e-02	3.795e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9971817	0.87848	7.484e+05	3.649e-02	3.709e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9972429	0.87943	7.417e+05	3.599e-02	3.625e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9972956	0.88036	7.350e+05	3.549e-02	3.543e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03

0.9973481	0.88129	7.283e+05	3.501e-02	3.462e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9974006	0.88222	7.218e+05	3.453e-02	3.384e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9974533	0.88313	7.152e+05	3.406e-02	3.307e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9975058	0.88404	7.088e+05	3.359e-02	3.232e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9975584	0.88495	7.024e+05	3.313e-02	3.159e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9976109	0.88584	6.961e+05	3.268e-02	3.087e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9976547	0.88674	6.898e+05	3.223e-02	3.017e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9977073	0.88762	6.836e+05	3.179e-02	2.949e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9977511	0.88850	6.774e+05	3.136e-02	2.882e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9977949	0.88937	6.713e+05	3.093e-02	2.816e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9978388	0.89024	6.652e+05	3.051e-02	2.753e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9978826	0.89109	6.592e+05	3.009e-02	2.690e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9979264	0.89195	6.533e+05	2.968e-02	2.629e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9979703	0.89279	6.474e+05	2.927e-02	2.569e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9980141	0.89364	6.416e+05	2.887e-02	2.511e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9980492	0.89447	6.358e+05	2.848e-02	2.454e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9980930	0.89530	6.300e+05	2.809e-02	2.398e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9981281	0.89612	6.244e+05	2.770e-02	2.344e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9981719	0.89694	6.187e+05	2.733e-02	2.291e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9982070	0.89775	6.132e+05	2.695e-02	2.239e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9982421	0.89855	6.076e+05	2.658e-02	2.188e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9982771	0.89935	6.022e+05	2.622e-02	2.138e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9983122	0.90014	5.967e+05	2.586e-02	2.090e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9983473	0.90093	5.913e+05	2.551e-02	2.042e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9983823	0.90171	5.860e+05	2.516e-02	1.996e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9984174	0.90248	5.807e+05	2.482e-02	1.951e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9984525	0.90325	5.755e+05	2.448e-02	1.907e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9984876	0.90402	5.703e+05	2.414e-02	1.863e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9985139	0.90477	5.652e+05	2.381e-02	1.821e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9985490	0.90553	5.601e+05	2.349e-02	1.780e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9985753	0.90627	5.551e+05	2.316e-02	1.739e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03

0.9986104	0.90701	5.501e+05	2.285e-02	1.700e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9986367	0.90775	5.451e+05	2.254e-02	1.661e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9986630	0.90848	5.402e+05	2.223e-02	1.624e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9986893	0.90920	5.353e+05	2.192e-02	1.587e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9987244	0.90992	5.305e+05	2.162e-02	1.551e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9987507	0.91063	5.257e+05	2.133e-02	1.515e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9987771	0.91134	5.210e+05	2.104e-02	1.481e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9988034	0.91204	5.163e+05	2.075e-02	1.447e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9988210	0.91274	5.117e+05	2.046e-02	1.415e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9988472	0.91343	5.071e+05	2.018e-02	1.383e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9988735	0.91412	5.025e+05	1.991e-02	1.351e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9988999	0.91480	4.980e+05	1.964e-02	1.320e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9989262	0.91547	4.935e+05	1.937e-02	1.291e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9989437	0.91614	4.891e+05	1.910e-02	1.261e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9989701	0.91681	4.847e+05	1.884e-02	1.233e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9989876	0.91747	4.803e+05	1.858e-02	1.205e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9990140	0.91812	4.760e+05	1.833e-02	1.177e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9990315	0.91877	4.717e+05	1.808e-02	1.151e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9990578	0.91942	4.675e+05	1.783e-02	1.124e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9990754	0.92006	4.633e+05	1.759e-02	1.099e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9990929	0.92069	4.591e+05	1.735e-02	1.074e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9991105	0.92132	4.550e+05	1.711e-02	1.050e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9991368	0.92195	4.509e+05	1.688e-02	1.026e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9991544	0.92257	4.469e+05	1.665e-02	1.003e+12	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9991719	0.92318	4.428e+05	1.642e-02	9.798e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9991895	0.92379	4.389e+05	1.619e-02	9.575e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9992070	0.92440	4.349e+05	1.597e-02	9.358e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9992246	0.92500	4.310e+05	1.575e-02	9.145e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9992422	0.92560	4.272e+05	1.554e-02	8.938e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9992597	0.92619	4.233e+05	1.533e-02	8.735e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9992772	0.92678	4.195e+05	1.512e-02	8.537e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03

0.9992861	0.92736	4.158e+05	1.491e-02	8.343e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9993035	0.92793	4.120e+05	1.471e-02	8.154e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9993211	0.92851	4.084e+05	1.450e-02	7.968e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9993387	0.92908	4.047e+05	1.431e-02	7.788e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9993474	0.92964	4.011e+05	1.411e-02	7.611e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9993650	0.93020	3.975e+05	1.392e-02	7.438e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9993826	0.93075	3.939e+05	1.373e-02	7.269e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9993914	0.93130	3.904e+05	1.354e-02	7.104e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9994089	0.93185	3.869e+05	1.335e-02	6.943e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9994177	0.93239	3.834e+05	1.317e-02	6.785e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9994352	0.93293	3.800e+05	1.299e-02	6.631e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9994441	0.93346	3.766e+05	1.281e-02	6.481e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9994615	0.93399	3.732e+05	1.264e-02	6.334e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9994704	0.93452	3.699e+05	1.246e-02	6.190e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9994791	0.93504	3.666e+05	1.229e-02	6.049e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9994967	0.93555	3.633e+05	1.213e-02	5.912e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9995055	0.93607	3.601e+05	1.196e-02	5.778e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9995142	0.93657	3.568e+05	1.180e-02	5.647e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9995318	0.93708	3.537e+05	1.163e-02	5.519e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9995406	0.93758	3.505e+05	1.148e-02	5.393e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9995494	0.93807	3.474e+05	1.132e-02	5.271e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9995582	0.93856	3.443e+05	1.116e-02	5.151e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9995670	0.93905	3.412e+05	1.101e-02	5.034e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9995757	0.93954	3.382e+05	1.086e-02	4.920e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9995933	0.94001	3.351e+05	1.071e-02	4.808e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9996021	0.94049	3.321e+05	1.056e-02	4.699e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9996108	0.94096	3.292e+05	1.042e-02	4.592e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9996197	0.94143	3.263e+05	1.028e-02	4.488e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9996284	0.94189	3.233e+05	1.014e-02	4.386e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9996371	0.94236	3.205e+05	9.998e-03	4.287e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9996459	0.94281	3.176e+05	9.861e-03	4.189e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03

0.9996547	0.94326	3.148e+05	9.725e-03	4.094e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9996635	0.94371	3.120e+05	9.592e-03	4.001e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9996723	0.94416	3.092e+05	9.461e-03	3.911e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9996723	0.94460	3.065e+05	9.331e-03	3.822e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9996811	0.94504	3.037e+05	9.204e-03	3.735e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9996899	0.94548	3.010e+05	9.078e-03	3.650e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9996986	0.94591	2.984e+05	8.953e-03	3.567e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9997074	0.94633	2.957e+05	8.831e-03	3.486e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03
0.9997162	0.94676	2.931e+05	8.710e-03	3.407e+11	1.00000	0.73963	0.24335	1.00e-04	2.88e-03	8.54e-04	7.91e-03

Lsun 3.8418E+33

Rsun 6.9598E+10