

Theta [deg.] [deg.]	Phi [deg.] Abs(Phi ) [dB ]	Abs(Grlz) [dB ] Phase(Phi ) [deg.]	Abs(Theta) [dB ] Ax.Ratio [dB ]	Phase(Theta)
0.000	0.000	-1.209e+001	-1.209e+001	
58.295	-4.272e+001	323.937	3.066e+001	
1.000	0.000	-1.225e+001	-1.226e+001	
57.866	-4.243e+001	326.274	3.018e+001	
2.000	0.000	-1.258e+001	-1.258e+001	
57.358	-4.221e+001	328.561	2.963e+001	
3.000	0.000	-1.309e+001	-1.309e+001	
56.738	-4.206e+001	330.827	2.900e+001	
4.000	0.000	-1.379e+001	-1.380e+001	
55.959	-4.199e+001	333.090	2.826e+001	
5.000	0.000	-1.473e+001	-1.474e+001	
54.945	-4.198e+001	335.372	2.739e+001	
6.000	0.000	-1.597e+001	-1.598e+001	
53.558	-4.204e+001	337.688	2.633e+001	
7.000	0.000	-1.758e+001	-1.760e+001	
51.534	-4.217e+001	340.055	2.504e+001	
8.000	0.000	-1.975e+001	-1.977e+001	
48.275	-4.237e+001	342.489	2.340e+001	
9.000	0.000	-2.278e+001	-2.283e+001	
42.151	-4.264e+001	345.008	2.135e+001	
10.000	0.000	-2.730e+001	-2.742e+001	
26.953	-4.298e+001	347.635	1.967e+001	
11.000	0.000	-3.202e+001	-3.235e+001	
334.544	-4.340e+001	350.394	2.294e+001	
12.000	0.000	-2.777e+001	-2.788e+001	
277.655	-4.391e+001	353.321	1.632e+001	
13.000	0.000	-2.307e+001	-2.310e+001	
260.935	-4.451e+001	356.462	2.144e+001	
14.000	0.000	-1.991e+001	-1.993e+001	
254.393	-4.520e+001	359.881	2.560e+001	
15.000	0.000	-1.766e+001	-1.766e+001	
250.959	-4.602e+001	3.672	2.906e+001	
16.000	0.000	-1.596e+001	-1.597e+001	
248.832	-4.696e+001	7.973	3.217e+001	
17.000	0.000	-1.466e+001	-1.466e+001	
247.372	-4.806e+001	13.000	3.520e+001	
18.000	0.000	-1.364e+001	-1.364e+001	
246.297	-4.932e+001	19.101	3.838e+001	
19.000	0.000	-1.284e+001	-1.284e+001	
245.467	-5.078e+001	26.855	4.000e+001	
20.000	0.000	-1.223e+001	-1.223e+001	
244.802	-5.242e+001	37.228	4.000e+001	
21.000	0.000	-1.179e+001	-1.179e+001	
244.257	-5.412e+001	51.713	4.000e+001	
22.000	0.000	-1.148e+001	-1.148e+001	
243.804	-5.550e+001	71.752	4.000e+001	
23.000	0.000	-1.130e+001	-1.130e+001	
243.426	-5.589e+001	96.014	4.000e+001	
24.000	0.000	-1.125e+001	-1.125e+001	
243.115	-5.504e+001	118.854	4.000e+001	
25.000	0.000	-1.130e+001	-1.131e+001	
242.867	-5.349e+001	136.256	4.000e+001	
26.000	0.000	-1.148e+001	-1.148e+001	
242.683	-5.185e+001	148.616	4.000e+001	
27.000	0.000	-1.176e+001	-1.176e+001	
242.570	-5.034e+001	157.577	3.862e+001	
28.000	0.000	-1.216e+001	-1.216e+001	
242.538	-4.903e+001	164.392	3.705e+001	
29.000	0.000	-1.268e+001	-1.268e+001	
242.608	-4.789e+001	169.830	3.561e+001	

30.000	0.000	-1.333e+001	-1.333e+001
242.809	-4.691e+001	174.351	3.421e+001
31.000	0.000	-1.412e+001	-1.412e+001
243.185	-4.606e+001	178.233	3.280e+001
32.000	0.000	-1.507e+001	-1.507e+001
243.807	-4.533e+001	181.651	3.133e+001
33.000	0.000	-1.621e+001	-1.622e+001
244.789	-4.470e+001	184.721	2.973e+001
34.000	0.000	-1.758e+001	-1.759e+001
246.324	-4.416e+001	187.518	2.793e+001
35.000	0.000	-1.924e+001	-1.926e+001
248.767	-4.369e+001	190.098	2.581e+001
36.000	0.000	-2.128e+001	-2.131e+001
252.832	-4.330e+001	192.497	2.322e+001
37.000	0.000	-2.382e+001	-2.388e+001
260.121	-4.296e+001	194.745	1.993e+001
38.000	0.000	-2.691e+001	-2.702e+001
274.636	-4.268e+001	196.859	1.587e+001
39.000	0.000	-2.963e+001	-2.986e+001
304.492	-4.246e+001	198.856	1.296e+001
40.000	0.000	-2.916e+001	-2.938e+001
343.844	-4.228e+001	200.746	1.762e+001
41.000	0.000	-2.640e+001	-2.652e+001
7.904	-4.215e+001	202.539	2.780e+001
42.000	0.000	-2.379e+001	-2.386e+001
19.337	-4.206e+001	204.239	3.969e+001
43.000	0.000	-2.174e+001	-2.178e+001
25.190	-4.200e+001	205.852	4.000e+001
44.000	0.000	-2.014e+001	-2.017e+001
28.440	-4.199e+001	207.380	4.000e+001
45.000	0.000	-1.888e+001	-1.890e+001
30.313	-4.201e+001	208.827	4.000e+001
46.000	0.000	-1.787e+001	-1.788e+001
31.373	-4.206e+001	210.191	4.000e+001
47.000	0.000	-1.705e+001	-1.706e+001
31.914	-4.215e+001	211.475	4.000e+001
48.000	0.000	-1.639e+001	-1.641e+001
32.098	-4.227e+001	212.676	4.000e+001
49.000	0.000	-1.587e+001	-1.588e+001
32.026	-4.241e+001	213.794	4.000e+001
50.000	0.000	-1.545e+001	-1.546e+001
31.761	-4.259e+001	214.827	4.000e+001
51.000	0.000	-1.513e+001	-1.514e+001
31.344	-4.279e+001	215.773	4.000e+001
52.000	0.000	-1.489e+001	-1.490e+001
30.804	-4.302e+001	216.627	4.000e+001
53.000	0.000	-1.472e+001	-1.473e+001
30.162	-4.327e+001	217.385	4.000e+001
54.000	0.000	-1.462e+001	-1.463e+001
29.433	-4.355e+001	218.044	4.000e+001
55.000	0.000	-1.458e+001	-1.458e+001
28.627	-4.385e+001	218.598	4.000e+001
56.000	0.000	-1.459e+001	-1.459e+001
27.753	-4.417e+001	219.041	4.000e+001
57.000	0.000	-1.465e+001	-1.466e+001
26.815	-4.451e+001	219.366	4.000e+001
58.000	0.000	-1.476e+001	-1.477e+001
25.818	-4.488e+001	219.565	4.000e+001
59.000	0.000	-1.491e+001	-1.492e+001
24.763	-4.526e+001	219.630	4.000e+001
60.000	0.000	-1.511e+001	-1.511e+001
23.651	-4.566e+001	219.552	4.000e+001
61.000	0.000	-1.535e+001	-1.535e+001
22.481	-4.608e+001	219.321	4.000e+001

62.000	0.000	-1.562e+001	-1.562e+001
21.252	-4.651e+001	218.926	4.000e+001
63.000	0.000	-1.593e+001	-1.593e+001
19.958	-4.695e+001	218.357	4.000e+001
64.000	0.000	-1.628e+001	-1.628e+001
18.596	-4.741e+001	217.602	4.000e+001
65.000	0.000	-1.666e+001	-1.666e+001
17.158	-4.787e+001	216.648	4.000e+001
66.000	0.000	-1.707e+001	-1.708e+001
15.635	-4.835e+001	215.484	4.000e+001
67.000	0.000	-1.752e+001	-1.752e+001
14.016	-4.882e+001	214.100	4.000e+001
68.000	0.000	-1.800e+001	-1.801e+001
12.288	-4.929e+001	212.484	4.000e+001
69.000	0.000	-1.852e+001	-1.852e+001
10.435	-4.976e+001	210.628	4.000e+001
70.000	0.000	-1.906e+001	-1.906e+001
8.437	-5.023e+001	208.527	4.000e+001
71.000	0.000	-1.963e+001	-1.963e+001
6.273	-5.067e+001	206.177	4.000e+001
72.000	0.000	-2.022e+001	-2.023e+001
3.920	-5.111e+001	203.581	4.000e+001
73.000	0.000	-2.084e+001	-2.085e+001
1.352	-5.151e+001	200.747	4.000e+001
74.000	0.000	-2.148e+001	-2.148e+001
358.542	-5.189e+001	197.685	4.000e+001
75.000	0.000	-2.212e+001	-2.213e+001
355.466	-5.224e+001	194.416	3.989e+001
76.000	0.000	-2.277e+001	-2.277e+001
352.106	-5.255e+001	190.963	3.960e+001
77.000	0.000	-2.341e+001	-2.341e+001
348.455	-5.283e+001	187.353	3.921e+001
78.000	0.000	-2.402e+001	-2.403e+001
344.524	-5.306e+001	183.622	3.874e+001
79.000	0.000	-2.461e+001	-2.461e+001
340.351	-5.324e+001	179.799	3.819e+001
80.000	0.000	-2.514e+001	-2.514e+001
336.006	-5.338e+001	175.920	3.761e+001
81.000	0.000	-2.560e+001	-2.561e+001
331.596	-5.348e+001	172.012	3.703e+001
82.000	0.000	-2.600e+001	-2.600e+001
327.261	-5.354e+001	168.103	3.653e+001
83.000	0.000	-2.632e+001	-2.633e+001
323.164	-5.356e+001	164.214	3.614e+001
84.000	0.000	-2.657e+001	-2.657e+001
319.473	-5.354e+001	160.362	3.594e+001
85.000	0.000	-2.675e+001	-2.676e+001
316.348	-5.349e+001	156.559	3.598e+001
86.000	0.000	-2.688e+001	-2.689e+001
313.927	-5.340e+001	152.811	3.633e+001
87.000	0.000	-2.696e+001	-2.697e+001
312.323	-5.329e+001	149.124	3.711e+001
88.000	0.000	-2.702e+001	-2.703e+001
311.625	-5.315e+001	145.500	3.854e+001
89.000	0.000	-2.704e+001	-2.706e+001
311.904	-5.298e+001	141.939	4.000e+001
90.000	0.000	-2.704e+001	-2.705e+001
313.211	-5.278e+001	138.441	4.000e+001
91.000	0.000	-2.700e+001	-2.701e+001
315.574	-5.257e+001	135.005	4.000e+001
92.000	0.000	-2.690e+001	-2.691e+001
318.990	-5.233e+001	131.633	4.000e+001
93.000	0.000	-2.672e+001	-2.673e+001
323.400	-5.207e+001	128.323	3.706e+001

94.000	0.000	-2.644e+001	-2.645e+001
328.674	-5.179e+001	125.074	3.332e+001
95.000	0.000	-2.602e+001	-2.604e+001
334.601	-5.150e+001	121.888	3.082e+001
96.000	0.000	-2.547e+001	-2.548e+001
340.903	-5.118e+001	118.764	2.918e+001
97.000	0.000	-2.477e+001	-2.478e+001
347.282	-5.086e+001	115.703	2.820e+001
98.000	0.000	-2.396e+001	-2.397e+001
353.474	-5.051e+001	112.703	2.774e+001
99.000	0.000	-2.304e+001	-2.305e+001
359.287	-5.016e+001	109.762	2.768e+001
100.000	0.000	-2.206e+001	-2.207e+001
4.619	-4.980e+001	106.876	2.792e+001
101.000	0.000	-2.105e+001	-2.105e+001
9.438	-4.942e+001	104.043	2.839e+001
102.000	0.000	-2.002e+001	-2.002e+001
13.766	-4.904e+001	101.256	2.902e+001
103.000	0.000	-1.899e+001	-1.900e+001
17.650	-4.865e+001	98.509	2.977e+001
104.000	0.000	-1.798e+001	-1.799e+001
21.151	-4.826e+001	95.795	3.059e+001
105.000	0.000	-1.700e+001	-1.700e+001
24.329	-4.787e+001	93.104	3.147e+001
106.000	0.000	-1.604e+001	-1.605e+001
27.241	-4.747e+001	90.429	3.241e+001
107.000	0.000	-1.512e+001	-1.512e+001
29.937	-4.707e+001	87.759	3.340e+001
108.000	0.000	-1.423e+001	-1.423e+001
32.460	-4.667e+001	85.084	3.444e+001
109.000	0.000	-1.337e+001	-1.337e+001
34.846	-4.627e+001	82.395	3.554e+001
110.000	0.000	-1.255e+001	-1.255e+001
37.126	-4.586e+001	79.682	3.671e+001
111.000	0.000	-1.176e+001	-1.176e+001
39.326	-4.546e+001	76.935	3.799e+001
112.000	0.000	-1.100e+001	-1.100e+001
41.469	-4.506e+001	74.147	3.941e+001
113.000	0.000	-1.028e+001	-1.028e+001
43.572	-4.465e+001	71.311	4.000e+001
114.000	0.000	-9.581e+000	-9.582e+000
45.651	-4.424e+001	68.423	4.000e+001
115.000	0.000	-8.917e+000	-8.918e+000
47.720	-4.382e+001	65.478	4.000e+001
116.000	0.000	-8.281e+000	-8.283e+000
49.790	-4.340e+001	62.475	4.000e+001
117.000	0.000	-7.675e+000	-7.676e+000
51.871	-4.297e+001	59.416	4.000e+001
118.000	0.000	-7.095e+000	-7.097e+000
53.971	-4.254e+001	56.306	4.000e+001
119.000	0.000	-6.543e+000	-6.544e+000
56.098	-4.209e+001	53.151	4.000e+001
120.000	0.000	-6.017e+000	-6.018e+000
58.259	-4.163e+001	49.961	4.000e+001
121.000	0.000	-5.517e+000	-5.518e+000
60.459	-4.116e+001	46.747	4.000e+001
122.000	0.000	-5.041e+000	-5.042e+000
62.704	-4.068e+001	43.525	4.000e+001
123.000	0.000	-4.591e+000	-4.592e+000
64.997	-4.019e+001	40.310	4.000e+001
124.000	0.000	-4.165e+000	-4.166e+000
67.343	-3.968e+001	37.117	4.000e+001
125.000	0.000	-3.763e+000	-3.765e+000
69.745	-3.916e+001	33.965	4.000e+001

126.000	0.000	-3.386e+000	-3.387e+000
72.206	-3.863e+001	30.869	3.885e+001
127.000	0.000	-3.032e+000	-3.034e+000
74.730	-3.810e+001	27.844	3.780e+001
128.000	0.000	-2.703e+000	-2.704e+000
77.320	-3.755e+001	24.903	3.687e+001
129.000	0.000	-2.398e+000	-2.400e+000
79.977	-3.700e+001	22.057	3.605e+001
130.000	0.000	-2.118e+000	-2.120e+000
82.706	-3.646e+001	19.316	3.531e+001
131.000	0.000	-1.864e+000	-1.866e+000
85.509	-3.591e+001	16.685	3.465e+001
132.000	0.000	-1.636e+000	-1.638e+000
88.391	-3.536e+001	14.170	3.406e+001
133.000	0.000	-1.435e+000	-1.437e+000
91.358	-3.482e+001	11.771	3.353e+001
134.000	0.000	-1.264e+000	-1.266e+000
94.415	-3.429e+001	9.490	3.306e+001
135.000	0.000	-1.123e+000	-1.125e+000
97.573	-3.377e+001	7.324	3.265e+001
136.000	0.000	-1.014e+000	-1.017e+000
100.842	-3.327e+001	5.272	3.229e+001
137.000	0.000	-9.405e-001	-9.433e-001
104.240	-3.278e+001	3.330	3.199e+001
138.000	0.000	-9.040e-001	-9.072e-001
107.786	-3.230e+001	1.493	3.175e+001
139.000	0.000	-9.078e-001	-9.113e-001
111.509	-3.185e+001	359.756	3.158e+001
140.000	0.000	-9.548e-001	-9.587e-001
115.447	-3.142e+001	358.113	3.149e+001
141.000	0.000	-1.048e+000	-1.053e+000
119.647	-3.101e+001	356.559	3.150e+001
142.000	0.000	-1.190e+000	-1.195e+000
124.175	-3.063e+001	355.088	3.164e+001
143.000	0.000	-1.383e+000	-1.389e+000
129.117	-3.027e+001	353.695	3.196e+001
144.000	0.000	-1.626e+000	-1.632e+000
134.584	-2.994e+001	352.372	3.257e+001
145.000	0.000	-1.914e+000	-1.922e+000
140.719	-2.964e+001	351.114	3.364e+001
146.000	0.000	-2.235e+000	-2.244e+000
147.698	-2.937e+001	349.916	3.559e+001
147.000	0.000	-2.564e+000	-2.574e+000
155.721	-2.913e+001	348.771	3.950e+001
148.000	0.000	-2.857e+000	-2.868e+000
164.976	-2.892e+001	347.673	4.000e+001
149.000	0.000	-3.046e+000	-3.058e+000
175.554	-2.875e+001	346.617	4.000e+001
150.000	0.000	-3.046e+000	-3.058e+000
187.323	-2.862e+001	345.596	3.422e+001
151.000	0.000	-2.777e+000	-2.789e+000
199.813	-2.853e+001	344.604	3.054e+001
152.000	0.000	-2.205e+000	-2.215e+000
212.278	-2.848e+001	343.634	2.876e+001
153.000	0.000	-1.358e+000	-1.367e+000
223.954	-2.847e+001	342.680	2.825e+001
154.000	0.000	-3.162e-001	-3.228e-001
234.342	-2.851e+001	341.733	2.859e+001
155.000	0.000	8.330e-001	8.281e-001
243.280	-2.859e+001	340.784	2.950e+001
156.000	0.000	2.018e+000	2.014e+000
250.847	-2.873e+001	339.823	3.075e+001
157.000	0.000	3.191e+000	3.188e+000
257.227	-2.893e+001	338.836	3.221e+001

158.000	0.000	4.324e+000	4.322e+000
262.625	-2.919e+001	337.810	3.381e+001
159.000	0.000	5.401e+000	5.400e+000
267.224	-2.953e+001	336.724	3.550e+001
160.000	0.000	6.418e+000	6.417e+000
271.176	-2.994e+001	335.553	3.725e+001
161.000	0.000	7.370e+000	7.369e+000
274.599	-3.043e+001	334.261	3.908e+001
162.000	0.000	8.259e+000	8.259e+000
277.587	-3.103e+001	332.803	4.000e+001
163.000	0.000	9.086e+000	9.086e+000
280.213	-3.175e+001	331.107	4.000e+001
164.000	0.000	9.854e+000	9.853e+000
282.533	-3.260e+001	329.069	4.000e+001
165.000	0.000	1.056e+001	1.056e+001
284.590	-3.362e+001	326.523	4.000e+001
166.000	0.000	1.122e+001	1.122e+001
286.421	-3.486e+001	323.189	4.000e+001
167.000	0.000	1.182e+001	1.182e+001
288.054	-3.635e+001	318.566	4.000e+001
168.000	0.000	1.237e+001	1.237e+001
289.510	-3.817e+001	311.683	4.000e+001
169.000	0.000	1.287e+001	1.287e+001
290.808	-4.034e+001	300.561	4.000e+001
170.000	0.000	1.332e+001	1.332e+001
291.963	-4.261e+001	281.449	4.000e+001
171.000	0.000	1.372e+001	1.372e+001
292.987	-4.376e+001	251.832	4.000e+001
172.000	0.000	1.408e+001	1.408e+001
293.889	-4.252e+001	221.979	4.000e+001
173.000	0.000	1.439e+001	1.439e+001
294.679	-4.010e+001	202.574	4.000e+001
174.000	0.000	1.466e+001	1.466e+001
295.361	-3.777e+001	191.317	4.000e+001
175.000	0.000	1.488e+001	1.488e+001
295.943	-3.578e+001	184.410	4.000e+001
176.000	0.000	1.507e+001	1.507e+001
296.427	-3.412e+001	179.824	4.000e+001
177.000	0.000	1.520e+001	1.520e+001
296.818	-3.273e+001	176.569	4.000e+001
178.000	0.000	1.530e+001	1.530e+001
297.118	-3.155e+001	174.134	4.000e+001
179.000	0.000	1.535e+001	1.535e+001
297.328	-3.054e+001	172.235	4.000e+001
180.000	0.000	1.537e+001	1.537e+001
297.449	-2.967e+001	170.704	4.000e+001
-179.000	0.000	1.534e+001	1.533e+001
297.482	-2.892e+001	169.435	4.000e+001
-178.000	0.000	1.526e+001	1.526e+001
297.426	-2.827e+001	168.357	4.000e+001
-177.000	0.000	1.515e+001	1.515e+001
297.280	-2.772e+001	167.422	4.000e+001
-176.000	0.000	1.499e+001	1.499e+001
297.041	-2.724e+001	166.597	4.000e+001
-175.000	0.000	1.479e+001	1.479e+001
296.708	-2.684e+001	165.857	4.000e+001
-174.000	0.000	1.454e+001	1.454e+001
296.276	-2.651e+001	165.183	4.000e+001
-173.000	0.000	1.425e+001	1.425e+001
295.740	-2.623e+001	164.560	4.000e+001
-172.000	0.000	1.392e+001	1.392e+001
295.096	-2.601e+001	163.975	4.000e+001
-171.000	0.000	1.354e+001	1.354e+001
294.334	-2.585e+001	163.421	4.000e+001

-170.000	0.000	1.311e+001	1.311e+001
293.448	-2.574e+001	162.887	4.000e+001
-169.000	0.000	1.264e+001	1.264e+001
292.426	-2.568e+001	162.369	4.000e+001
-168.000	0.000	1.211e+001	1.211e+001
291.255	-2.566e+001	161.858	4.000e+001
-167.000	0.000	1.154e+001	1.154e+001
289.919	-2.569e+001	161.350	3.937e+001
-166.000	0.000	1.091e+001	1.091e+001
288.398	-2.577e+001	160.840	3.870e+001
-165.000	0.000	1.023e+001	1.023e+001
286.670	-2.589e+001	160.321	3.800e+001
-164.000	0.000	9.491e+000	9.490e+000
284.703	-2.605e+001	159.790	3.726e+001
-163.000	0.000	8.694e+000	8.692e+000
282.460	-2.625e+001	159.241	3.650e+001
-162.000	0.000	7.835e+000	7.834e+000
279.894	-2.650e+001	158.668	3.570e+001
-161.000	0.000	6.914e+000	6.912e+000
276.944	-2.679e+001	158.066	3.486e+001
-160.000	0.000	5.928e+000	5.926e+000
273.535	-2.712e+001	157.429	3.398e+001
-159.000	0.000	4.879e+000	4.877e+000
269.567	-2.749e+001	156.749	3.308e+001
-158.000	0.000	3.769e+000	3.766e+000
264.916	-2.791e+001	156.019	3.216e+001
-157.000	0.000	2.607e+000	2.603e+000
259.425	-2.837e+001	155.230	3.124e+001
-156.000	0.000	1.409e+000	1.405e+000
252.909	-2.887e+001	154.371	3.037e+001
-155.000	0.000	2.068e-001	2.020e-001
245.169	-2.942e+001	153.430	2.962e+001
-154.000	0.000	-9.471e-001	-9.525e-001
236.039	-3.001e+001	152.392	2.911e+001
-153.000	0.000	-1.979e+000	-1.985e+000
225.484	-3.065e+001	151.240	2.900e+001
-152.000	0.000	-2.802e+000	-2.808e+000
213.728	-3.134e+001	149.951	2.948e+001
-151.000	0.000	-3.347e+000	-3.353e+000
201.322	-3.209e+001	148.500	3.071e+001
-150.000	0.000	-3.598e+000	-3.603e+000
189.023	-3.288e+001	146.853	3.274e+001
-149.000	0.000	-3.598e+000	-3.602e+000
177.515	-3.373e+001	144.968	3.552e+001
-148.000	0.000	-3.428e+000	-3.431e+000
167.188	-3.464e+001	142.793	3.889e+001
-147.000	0.000	-3.168e+000	-3.170e+000
158.123	-3.560e+001	140.261	4.000e+001
-146.000	0.000	-2.879e+000	-2.881e+000
150.209	-3.662e+001	137.286	4.000e+001
-145.000	0.000	-2.601e+000	-2.602e+000
143.258	-3.770e+001	133.761	4.000e+001
-144.000	0.000	-2.355e+000	-2.356e+000
137.081	-3.883e+001	129.551	4.000e+001
-143.000	0.000	-2.151e+000	-2.152e+000
131.511	-3.999e+001	124.496	4.000e+001
-142.000	0.000	-1.993e+000	-1.993e+000
126.415	-4.116e+001	118.420	4.000e+001
-141.000	0.000	-1.880e+000	-1.880e+000
121.692	-4.230e+001	111.167	4.000e+001
-140.000	0.000	-1.810e+000	-1.810e+000
117.262	-4.335e+001	102.669	4.000e+001
-139.000	0.000	-1.779e+000	-1.779e+000
113.068	-4.422e+001	93.056	4.000e+001

-138.000	0.000	-1.785e+000	-1.785e+000
109.069	-4.486e+001	82.737	4.000e+001
-137.000	0.000	-1.823e+000	-1.824e+000
105.234	-4.522e+001	72.354	4.000e+001
-136.000	0.000	-1.892e+000	-1.892e+000
101.542	-4.533e+001	62.585	4.000e+001
-135.000	0.000	-1.987e+000	-1.987e+000
97.978	-4.524e+001	53.903	4.000e+001
-134.000	0.000	-2.108e+000	-2.108e+000
94.533	-4.505e+001	46.500	4.000e+001
-133.000	0.000	-2.251e+000	-2.251e+000
91.201	-4.481e+001	40.349	4.000e+001
-132.000	0.000	-2.415e+000	-2.416e+000
87.979	-4.457e+001	35.307	4.000e+001
-131.000	0.000	-2.600e+000	-2.601e+000
84.867	-4.435e+001	31.204	4.000e+001
-130.000	0.000	-2.805e+000	-2.806e+000
81.864	-4.418e+001	27.878	4.000e+001
-129.000	0.000	-3.029e+000	-3.030e+000
78.971	-4.406e+001	25.191	4.000e+001
-128.000	0.000	-3.272e+000	-3.273e+000
76.189	-4.399e+001	23.037	4.000e+001
-127.000	0.000	-3.535e+000	-3.535e+000
73.518	-4.397e+001	21.330	4.000e+001
-126.000	0.000	-3.816e+000	-3.817e+000
70.959	-4.400e+001	20.007	4.000e+001
-125.000	0.000	-4.117e+000	-4.118e+000
68.512	-4.407e+001	19.019	4.000e+001
-124.000	0.000	-4.438e+000	-4.439e+000
66.177	-4.419e+001	18.331	4.000e+001
-123.000	0.000	-4.780e+000	-4.780e+000
63.954	-4.435e+001	17.917	4.000e+001
-122.000	0.000	-5.142e+000	-5.143e+000
61.842	-4.455e+001	17.757	4.000e+001
-121.000	0.000	-5.526e+000	-5.527e+000
59.841	-4.478e+001	17.840	4.000e+001
-120.000	0.000	-5.932e+000	-5.932e+000
57.948	-4.504e+001	18.156	4.000e+001
-119.000	0.000	-6.360e+000	-6.361e+000
56.164	-4.532e+001	18.699	4.000e+001
-118.000	0.000	-6.812e+000	-6.812e+000
54.487	-4.563e+001	19.467	4.000e+001
-117.000	0.000	-7.287e+000	-7.287e+000
52.917	-4.595e+001	20.457	4.000e+001
-116.000	0.000	-7.786e+000	-7.786e+000
51.453	-4.629e+001	21.666	4.000e+001
-115.000	0.000	-8.309e+000	-8.310e+000
50.095	-4.664e+001	23.091	4.000e+001
-114.000	0.000	-8.858e+000	-8.859e+000
48.844	-4.698e+001	24.726	4.000e+001
-113.000	0.000	-9.432e+000	-9.433e+000
47.702	-4.733e+001	26.562	4.000e+001
-112.000	0.000	-1.003e+001	-1.003e+001
46.671	-4.768e+001	28.586	4.000e+001
-111.000	0.000	-1.066e+001	-1.066e+001
45.753	-4.801e+001	30.781	4.000e+001
-110.000	0.000	-1.131e+001	-1.131e+001
44.954	-4.833e+001	33.125	4.000e+001
-109.000	0.000	-1.199e+001	-1.199e+001
44.279	-4.863e+001	35.590	4.000e+001
-108.000	0.000	-1.270e+001	-1.270e+001
43.736	-4.891e+001	38.145	4.000e+001
-107.000	0.000	-1.344e+001	-1.344e+001
43.336	-4.917e+001	40.758	4.000e+001



-106.000	0.000	-1.420e+001	-1.420e+001
43.090	-4.941e+001	43.393	4.000e+001
-105.000	0.000	-1.499e+001	-1.499e+001
43.012	-4.962e+001	46.015	4.000e+001
-104.000	0.000	-1.580e+001	-1.581e+001
43.122	-4.982e+001	48.596	4.000e+001
-103.000	0.000	-1.664e+001	-1.665e+001
43.440	-4.999e+001	51.107	4.000e+001
-102.000	0.000	-1.750e+001	-1.751e+001
43.990	-5.016e+001	53.527	4.000e+001
-101.000	0.000	-1.838e+001	-1.838e+001
44.799	-5.032e+001	55.842	4.000e+001
-100.000	0.000	-1.927e+001	-1.927e+001
45.897	-5.047e+001	58.042	4.000e+001
-99.000	0.000	-2.016e+001	-2.017e+001
47.312	-5.062e+001	60.125	4.000e+001
-98.000	0.000	-2.105e+001	-2.105e+001
49.068	-5.078e+001	62.093	4.000e+001
-97.000	0.000	-2.192e+001	-2.192e+001
51.180	-5.095e+001	63.953	4.000e+001
-96.000	0.000	-2.274e+001	-2.275e+001
53.643	-5.113e+001	65.718	4.000e+001
-95.000	0.000	-2.351e+001	-2.352e+001
56.424	-5.133e+001	67.404	4.000e+001
-94.000	0.000	-2.420e+001	-2.421e+001
59.452	-5.156e+001	69.031	4.000e+001
-93.000	0.000	-2.480e+001	-2.481e+001
62.614	-5.181e+001	70.623	4.000e+001
-92.000	0.000	-2.528e+001	-2.528e+001
65.758	-5.210e+001	72.210	4.000e+001
-91.000	0.000	-2.563e+001	-2.564e+001
68.714	-5.243e+001	73.826	4.000e+001
-90.000	0.000	-2.586e+001	-2.587e+001
71.313	-5.280e+001	75.513	4.000e+001
-89.000	0.000	-2.597e+001	-2.597e+001
73.418	-5.322e+001	77.321	4.000e+001
-88.000	0.000	-2.596e+001	-2.597e+001
74.935	-5.370e+001	79.318	4.000e+001
-87.000	0.000	-2.586e+001	-2.587e+001
75.826	-5.423e+001	81.589	4.000e+001
-86.000	0.000	-2.567e+001	-2.568e+001
76.104	-5.484e+001	84.246	4.000e+001
-85.000	0.000	-2.541e+001	-2.541e+001
75.818	-5.552e+001	87.444	4.000e+001
-84.000	0.000	-2.508e+001	-2.508e+001
75.049	-5.628e+001	91.392	4.000e+001
-83.000	0.000	-2.468e+001	-2.468e+001
73.891	-5.711e+001	96.380	4.000e+001
-82.000	0.000	-2.424e+001	-2.424e+001
72.444	-5.799e+001	102.791	3.968e+001
-81.000	0.000	-2.375e+001	-2.375e+001
70.807	-5.886e+001	111.078	3.890e+001
-80.000	0.000	-2.322e+001	-2.322e+001
69.065	-5.960e+001	121.622	3.838e+001
-79.000	0.000	-2.267e+001	-2.267e+001
67.293	-6.005e+001	134.360	3.809e+001
-78.000	0.000	-2.209e+001	-2.209e+001
65.552	-6.001e+001	148.350	3.798e+001
-77.000	0.000	-2.150e+001	-2.151e+001
63.886	-5.943e+001	161.900	3.801e+001
-76.000	0.000	-2.091e+001	-2.091e+001
62.325	-5.845e+001	173.579	3.815e+001
-75.000	0.000	-2.032e+001	-2.032e+001
60.891	-5.725e+001	182.869	3.837e+001

-74.000	0.000	-1.973e+001	-1.973e+001
59.594	-5.600e+001	189.965	3.863e+001
-73.000	0.000	-1.916e+001	-1.916e+001
58.438	-5.476e+001	195.307	3.891e+001
-72.000	0.000	-1.859e+001	-1.859e+001
57.424	-5.359e+001	199.323	3.919e+001
-71.000	0.000	-1.805e+001	-1.805e+001
56.547	-5.249e+001	202.348	3.945e+001
-70.000	0.000	-1.752e+001	-1.752e+001
55.802	-5.148e+001	204.628	3.968e+001
-69.000	0.000	-1.702e+001	-1.702e+001
55.180	-5.054e+001	206.341	3.985e+001
-68.000	0.000	-1.654e+001	-1.654e+001
54.674	-4.967e+001	207.612	3.997e+001
-67.000	0.000	-1.609e+001	-1.609e+001
54.277	-4.887e+001	208.534	4.000e+001
-66.000	0.000	-1.566e+001	-1.566e+001
53.979	-4.812e+001	209.174	4.000e+001
-65.000	0.000	-1.526e+001	-1.526e+001
53.773	-4.743e+001	209.583	3.992e+001
-64.000	0.000	-1.489e+001	-1.489e+001
53.652	-4.679e+001	209.797	3.976e+001
-63.000	0.000	-1.455e+001	-1.455e+001
53.608	-4.619e+001	209.845	3.954e+001
-62.000	0.000	-1.424e+001	-1.424e+001
53.636	-4.563e+001	209.750	3.925e+001
-61.000	0.000	-1.396e+001	-1.396e+001
53.729	-4.512e+001	209.527	3.890e+001
-60.000	0.000	-1.372e+001	-1.372e+001
53.883	-4.464e+001	209.190	3.850e+001
-59.000	0.000	-1.351e+001	-1.351e+001
54.092	-4.419e+001	208.749	3.806e+001
-58.000	0.000	-1.334e+001	-1.334e+001
54.353	-4.378e+001	208.212	3.757e+001
-57.000	0.000	-1.320e+001	-1.321e+001
54.662	-4.340e+001	207.584	3.704e+001
-56.000	0.000	-1.311e+001	-1.312e+001
55.015	-4.305e+001	206.871	3.647e+001
-55.000	0.000	-1.307e+001	-1.307e+001
55.413	-4.273e+001	206.075	3.586e+001
-54.000	0.000	-1.307e+001	-1.307e+001
55.852	-4.244e+001	205.200	3.522e+001
-53.000	0.000	-1.312e+001	-1.312e+001
56.334	-4.217e+001	204.248	3.455e+001
-52.000	0.000	-1.323e+001	-1.323e+001
56.860	-4.193e+001	203.220	3.383e+001
-51.000	0.000	-1.339e+001	-1.340e+001
57.432	-4.171e+001	202.118	3.307e+001
-50.000	0.000	-1.363e+001	-1.364e+001
58.057	-4.151e+001	200.942	3.227e+001
-49.000	0.000	-1.394e+001	-1.395e+001
58.742	-4.133e+001	199.696	3.141e+001
-48.000	0.000	-1.434e+001	-1.435e+001
59.501	-4.118e+001	198.381	3.048e+001
-47.000	0.000	-1.484e+001	-1.485e+001
60.353	-4.104e+001	196.998	2.947e+001
-46.000	0.000	-1.545e+001	-1.546e+001
61.328	-4.093e+001	195.553	2.837e+001
-45.000	0.000	-1.620e+001	-1.621e+001
62.471	-4.083e+001	194.047	2.715e+001
-44.000	0.000	-1.712e+001	-1.714e+001
63.856	-4.075e+001	192.486	2.577e+001
-43.000	0.000	-1.825e+001	-1.827e+001
65.611	-4.068e+001	190.877	2.418e+001

-42.000	0.000	-1.966e+001	-1.970e+001
67.968	-4.063e+001	189.227	2.231e+001
-41.000	0.000	-2.146e+001	-2.151e+001
71.398	-4.059e+001	187.544	2.004e+001
-40.000	0.000	-2.382e+001	-2.391e+001
77.005	-4.057e+001	185.838	1.715e+001
-39.000	0.000	-2.701e+001	-2.720e+001
87.942	-4.056e+001	184.122	1.341e+001
-38.000	0.000	-3.093e+001	-3.143e+001
115.087	-4.056e+001	182.406	1.000e+001
-37.000	0.000	-3.155e+001	-3.213e+001
169.797	-4.058e+001	180.706	2.403e+001
-36.000	0.000	-2.764e+001	-2.786e+001
203.126	-4.061e+001	179.035	2.091e+001
-35.000	0.000	-2.412e+001	-2.421e+001
216.063	-4.066e+001	177.409	2.065e+001
-34.000	0.000	-2.149e+001	-2.154e+001
222.340	-4.072e+001	175.844	2.202e+001
-33.000	0.000	-1.948e+001	-1.951e+001
226.012	-4.081e+001	174.357	2.343e+001
-32.000	0.000	-1.791e+001	-1.793e+001
228.433	-4.091e+001	172.962	2.468e+001
-31.000	0.000	-1.665e+001	-1.667e+001
230.158	-4.104e+001	171.678	2.577e+001
-30.000	0.000	-1.564e+001	-1.565e+001
231.455	-4.120e+001	170.521	2.672e+001
-29.000	0.000	-1.483e+001	-1.484e+001
232.469	-4.139e+001	169.508	2.755e+001
-28.000	0.000	-1.420e+001	-1.421e+001
233.283	-4.161e+001	168.658	2.828e+001
-27.000	0.000	-1.373e+001	-1.374e+001
233.948	-4.187e+001	167.990	2.892e+001
-26.000	0.000	-1.340e+001	-1.341e+001
234.497	-4.218e+001	167.526	2.949e+001
-25.000	0.000	-1.321e+001	-1.322e+001
234.953	-4.253e+001	167.293	2.999e+001
-24.000	0.000	-1.316e+001	-1.317e+001
235.329	-4.295e+001	167.321	3.044e+001
-23.000	0.000	-1.325e+001	-1.326e+001
235.635	-4.343e+001	167.652	3.083e+001
-22.000	0.000	-1.349e+001	-1.350e+001
235.875	-4.399e+001	168.339	3.117e+001
-21.000	0.000	-1.390e+001	-1.390e+001
236.050	-4.463e+001	169.455	3.147e+001
-20.000	0.000	-1.448e+001	-1.448e+001
236.155	-4.537e+001	171.105	3.173e+001
-19.000	0.000	-1.528e+001	-1.528e+001
236.179	-4.622e+001	173.440	3.196e+001
-18.000	0.000	-1.633e+001	-1.634e+001
236.099	-4.719e+001	176.687	3.216e+001
-17.000	0.000	-1.773e+001	-1.774e+001
235.868	-4.830e+001	181.192	3.233e+001
-16.000	0.000	-1.962e+001	-1.962e+001
235.383	-4.955e+001	187.487	3.252e+001
-15.000	0.000	-2.227e+001	-2.227e+001
234.375	-5.088e+001	196.352	3.282e+001
-14.000	0.000	-2.640e+001	-2.641e+001
231.884	-5.216e+001	208.734	3.388e+001
-13.000	0.000	-3.492e+001	-3.499e+001
220.309	-5.308e+001	225.088	3.981e+001
-12.000	0.000	-3.615e+001	-3.623e+001
80.045	-5.325e+001	243.930	2.831e+001
-11.000	0.000	-2.671e+001	-2.672e+001
65.712	-5.257e+001	261.803	3.702e+001

-10.000	0.000	-2.226e+001	-2.227e+001
62.896	-5.136e+001	276.199	3.431e+001
-9.000	0.000	-1.941e+001	-1.942e+001
61.693	-5.000e+001	286.947	3.356e+001
-8.000	0.000	-1.737e+001	-1.737e+001
61.006	-4.869e+001	294.924	3.317e+001
-7.000	0.000	-1.583e+001	-1.584e+001
60.540	-4.750e+001	301.011	3.288e+001
-6.000	0.000	-1.465e+001	-1.465e+001
60.180	-4.646e+001	305.836	3.262e+001
-5.000	0.000	-1.374e+001	-1.374e+001
59.871	-4.556e+001	309.817	3.236e+001
-4.000	0.000	-1.305e+001	-1.306e+001
59.583	-4.478e+001	313.222	3.208e+001
-3.000	0.000	-1.256e+001	-1.257e+001
59.295	-4.412e+001	316.233	3.178e+001
-2.000	0.000	-1.224e+001	-1.225e+001
58.994	-4.356e+001	318.969	3.145e+001
-1.000	0.000	-1.209e+001	-1.209e+001
58.665	-4.310e+001	321.517	3.108e+001