

a=0 degree										
nx	x	xc	uei	uev	cf	uc	theta	dls	dd	db
2	0.00026	0	0.0233	0.0233	4.49E-01	0.00E+00	1.68E-05	3.76E-05	1.75E-03	1.75E-03
3	0.000751	0.00003	0.0641	0.0641	1.72E-01	0.00E+00	1.66E-05	3.66E-05	4.70E-03	4.70E-03
4	0.001584	0.0001	0.1309	0.1309	8.45E-02	0.00E+00	1.62E-05	3.60E-05	9.43E-03	9.43E-03
5	0.002736	0.00027	0.2218	0.2218	4.89E-02	0.00E+00	1.66E-05	3.68E-05	1.63E-02	1.63E-02
6	0.004236	0.00061	0.3354	0.3354	3.15E-02	0.00E+00	1.69E-05	3.76E-05	2.52E-02	2.52E-02
7	0.00612	0.00123	0.4641	0.4641	2.14E-02	0.00E+00	1.77E-05	3.96E-05	3.68E-02	3.68E-02
8	0.008424	0.00222	0.5993	0.5993	1.53E-02	0.00E+00	1.90E-05	4.26E-05	5.11E-02	5.11E-02
9	0.011184	0.0037	0.7269	0.7269	1.11E-02	0.00E+00	2.08E-05	4.73E-05	6.88E-02	6.88E-02
10	0.014363	0.0057	0.8343	0.8343	8.42E-03	0.00E+00	2.33E-05	5.34E-05	8.91E-02	8.91E-02
11	0.017877	0.00819	0.9193	0.9193	6.59E-03	0.00E+00	2.62E-05	6.07E-05	1.12E-01	1.12E-01
12	0.02174	0.01116	0.9844	0.9844	5.30E-03	0.00E+00	2.95E-05	6.90E-05	1.36E-01	1.36E-01
13	0.025943	0.01459	1.0332	1.0332	4.36E-03	0.00E+00	3.31E-05	7.81E-05	1.61E-01	1.61E-01
14	0.030487	0.01846	1.0702	1.0702	3.67E-03	0.00E+00	3.69E-05	8.78E-05	1.88E-01	1.88E-01
15	0.035359	0.02275	1.0981	1.0981	3.14E-03	0.00E+00	4.08E-05	9.80E-05	2.15E-01	2.15E-01
16	0.04057	0.02745	1.1194	1.1194	2.74E-03	0.00E+00	4.49E-05	1.09E-04	2.43E-01	2.43E-01
17	0.046103	0.03254	1.1358	1.1358	2.42E-03	0.00E+00	4.90E-05	1.19E-04	2.71E-01	2.71E-01
18	0.051966	0.03801	1.1485	1.1485	2.16E-03	0.00E+00	5.32E-05	1.31E-04	3.00E-01	3.00E-01
19	0.058139	0.04384	1.1585	1.1585	1.94E-03	0.00E+00	5.75E-05	1.42E-04	3.28E-01	3.28E-01
20	0.064635	0.05003	1.1663	1.1663	1.77E-03	0.00E+00	6.17E-05	1.53E-04	3.57E-01	3.57E-01
21	0.071443	0.05657	1.1726	1.1726	1.62E-03	0.00E+00	6.60E-05	1.64E-04	3.86E-01	3.86E-01
22	0.078559	0.06345	1.1772	1.1772	1.49E-03	0.00E+00	7.04E-05	1.76E-04	4.15E-01	4.15E-01
23	0.085967	0.07065	1.1805	1.1805	1.37E-03	0.00E+00	7.48E-05	1.88E-04	4.44E-01	4.44E-01
24	0.093682	0.07818	1.1832	1.1832	1.28E-03	0.00E+00	7.91E-05	2.00E-04	4.72E-01	4.72E-01
25	0.101674	0.08601	1.1855	1.1855	1.20E-03	0.00E+00	8.34E-05	2.11E-04	5.00E-01	5.00E-01
26	0.109966	0.09416	1.1872	1.1872	1.13E-03	0.00E+00	8.78E-05	2.23E-04	5.29E-01	5.29E-01
27	0.11853	0.1026	1.1883	1.1876	1.06E-03	0.00E+00	9.22E-05	2.35E-04	5.59E-01	5.59E-01
28	0.127366	0.11133	1.1886	1.1881	1.00E-03	0.00E+00	9.65E-05	2.47E-04	5.86E-01	5.86E-01
29	0.13647	0.12034	1.1885	1.1887	9.88E-04	0.00E+00	1.01E-04	2.58E-04	6.13E-01	6.13E-01
30	0.145839	0.12963	1.1885	1.1882	1.10E-03	0.00E+00	1.06E-04	2.59E-04	6.16E-01	6.16E-01
31	0.155457	0.13918	1.1879	1.1861	1.39E-03	0.00E+00	1.14E-04	2.52E-04	5.99E-01	5.99E-01
32	0.165324	0.14899	1.1867	1.1837	1.83E-03	0.00E+00	1.23E-04	2.47E-04	5.85E-01	5.85E-01
33	0.175442	0.15906	1.1853	1.1818	2.33E-03	0.00E+00	1.35E-04	2.48E-04	5.86E-01	5.86E-01
34	0.185781	0.16936	1.1838	1.1802	2.80E-03	0.00E+00	1.49E-04	2.57E-04	6.06E-01	6.06E-01
35	0.196353	0.1799	1.1821	1.1787	3.17E-03	0.00E+00	1.66E-04	2.72E-04	6.42E-01	6.42E-01
36	0.207149	0.19067	1.1805	1.1773	3.44E-03	0.00E+00	1.84E-04	2.93E-04	6.89E-01	6.89E-01
37	0.21816	0.20166	1.1787	1.1758	3.59E-03	0.00E+00	2.05E-04	3.18E-04	7.47E-01	7.47E-01
38	0.229365	0.21285	1.1764	1.1739	3.66E-03	0.00E+00	2.27E-04	3.46E-04	8.12E-01	8.12E-01
39	0.240776	0.22425	1.1739	1.1717	3.68E-03	0.00E+00	2.50E-04	3.76E-04	8.80E-01	8.80E-01
40	0.252374	0.23584	1.1714	1.1694	3.67E-03	0.00E+00	2.73E-04	4.07E-04	9.52E-01	9.52E-01
41	0.264149	0.24761	1.1689	1.1671	3.64E-03	0.00E+00	2.97E-04	4.39E-04	1.02E+00	1.02E+00
42	0.276103	0.25956	1.1664	1.1648	3.59E-03	0.00E+00	3.22E-04	4.72E-04	1.10E+00	1.10E+00
43	0.288214	0.27167	1.1636	1.1622	3.54E-03	0.00E+00	3.46E-04	5.06E-04	1.18E+00	1.18E+00
44	0.300485	0.28394	1.1606	1.1592	3.49E-03	0.00E+00	3.71E-04	5.41E-04	1.25E+00	1.25E+00
45	0.312905	0.29636	1.1575	1.1563	3.43E-03	0.00E+00	3.97E-04	5.76E-04	1.33E+00	1.33E+00
46	0.325465	0.30892	1.1544	1.1534	3.38E-03	0.00E+00	4.22E-04	6.12E-04	1.41E+00	1.41E+00
47	0.338166	0.32162	1.1512	1.1502	3.33E-03	0.00E+00	4.48E-04	6.48E-04	1.49E+00	1.49E+00
48	0.350976	0.33443	1.1481	1.1472	3.28E-03	0.00E+00	4.74E-04	6.84E-04	1.57E+00	1.57E+00
49	0.363898	0.34735	1.1451	1.1443	3.24E-03	0.00E+00	5.00E-04	7.20E-04	1.65E+00	1.65E+00
50	0.376931	0.36038	1.1418	1.141	3.21E-03	0.00E+00	5.27E-04	7.56E-04	1.73E+00	1.73E+00
51	0.390056	0.3735	1.1384	1.1377	3.18E-03	0.00E+00	5.55E-04	7.94E-04	1.81E+00	1.81E+00
52	0.403272	0.38671	1.1349	1.1344	3.14E-03	0.00E+00	5.82E-04	8.33E-04	1.89E+00	1.89E+00
53	0.416561	0.39999	1.1313	1.1308	3.11E-03	0.00E+00	6.10E-04	8.71E-04	1.97E+00	1.97E+00
54	0.429921	0.41334	1.1279	1.1274	3.08E-03	0.00E+00	6.38E-04	9.09E-04	2.05E+00	2.05E+00
55	0.443343	0.42675	1.1246	1.1242	3.05E-03	0.00E+00	6.67E-04	9.47E-04	2.13E+00	2.13E+00
56	0.456808	0.4402	1.1212	1.1209	3.02E-03	0.00E+00	6.95E-04	9.87E-04	2.21E+00	2.21E+00
57	0.470315	0.45369	1.1177	1.1173	2.99E-03	0.00E+00	7.24E-04	1.03E-03	2.29E+00	2.29E+00
58	0.483855	0.46721	1.1141	1.1138	2.97E-03	0.00E+00	7.54E-04	1.07E-03	2.37E+00	2.37E+00
59	0.497417	0.48075	1.1105	1.1103	2.95E-03	0.00E+00	7.85E-04	1.11E-03	2.46E+00	2.46E+00

60	0.510992	0.4943	1.1071	1.1071	2.93E-03	0.00E+00	8.13E-04	1.15E-03	2.54E+00	2.54E+00
61	0.524569	0.50785	1.1037	1.1036	2.90E-03	0.00E+00	8.43E-04	1.19E-03	2.62E+00	2.62E+00
62	0.538138	0.52139	1.1003	1.1002	2.88E-03	0.00E+00	8.73E-04	1.23E-03	2.70E+00	2.70E+00
63	0.55169	0.53491	1.097	1.097	2.86E-03	0.00E+00	9.04E-04	1.27E-03	2.78E+00	2.78E+00
64	0.565215	0.5484	1.0937	1.0938	2.84E-03	0.00E+00	9.34E-04	1.31E-03	2.87E+00	2.87E+00
65	0.578712	0.56186	1.0903	1.0903	2.82E-03	0.00E+00	9.63E-04	1.35E-03	2.95E+00	2.95E+00
66	0.592161	0.57527	1.0868	1.0868	2.81E-03	0.00E+00	9.94E-04	1.39E-03	3.03E+00	3.03E+00
67	0.605563	0.58863	1.0832	1.0833	2.79E-03	0.00E+00	1.03E-03	1.44E-03	3.11E+00	3.11E+00
68	0.618897	0.60192	1.0799	1.0801	2.77E-03	0.00E+00	1.06E-03	1.48E-03	3.19E+00	3.19E+00
69	0.632163	0.61514	1.0767	1.0769	2.76E-03	0.00E+00	1.09E-03	1.52E-03	3.27E+00	3.27E+00
70	0.645351	0.62828	1.0734	1.0738	2.74E-03	0.00E+00	1.12E-03	1.56E-03	3.36E+00	3.36E+00
71	0.658441	0.64132	1.0701	1.0704	2.72E-03	0.00E+00	1.15E-03	1.60E-03	3.44E+00	3.44E+00
72	0.671444	0.65427	1.0668	1.0671	2.71E-03	0.00E+00	1.18E-03	1.65E-03	3.51E+00	3.51E+00
73	0.684327	0.6671	1.0639	1.0642	2.69E-03	0.00E+00	1.21E-03	1.69E-03	3.59E+00	3.59E+00
74	0.697103	0.67982	1.061	1.0612	2.68E-03	0.00E+00	1.24E-03	1.73E-03	3.67E+00	3.67E+00
75	0.70975	0.69241	1.0576	1.0579	2.66E-03	0.00E+00	1.27E-03	1.77E-03	3.75E+00	3.75E+00
76	0.72226	0.70486	1.0539	1.0545	2.64E-03	0.00E+00	1.31E-03	1.82E-03	3.84E+00	3.84E+00
77	0.734631	0.71717	1.0506	1.0511	2.63E-03	0.00E+00	1.34E-03	1.86E-03	3.91E+00	3.91E+00
78	0.746853	0.72933	1.0479	1.0482	2.61E-03	0.00E+00	1.37E-03	1.90E-03	3.99E+00	3.99E+00
79	0.758918	0.74133	1.0448	1.0449	2.59E-03	0.00E+00	1.40E-03	1.94E-03	4.06E+00	4.06E+00
80	0.770803	0.75315	1.0411	1.0413	2.57E-03	0.00E+00	1.43E-03	1.99E-03	4.14E+00	4.14E+00
81	0.782521	0.7648	1.0372	1.0374	2.55E-03	0.00E+00	1.46E-03	2.04E-03	4.23E+00	4.23E+00
82	0.794052	0.77626	1.0331	1.0334	2.52E-03	0.00E+00	1.49E-03	2.09E-03	4.31E+00	4.31E+00
83	0.805393	0.78753	1.0288	1.0293	2.50E-03	0.00E+00	1.53E-03	2.14E-03	4.40E+00	4.40E+00
84	0.816534	0.7986	1.0247	1.0252	2.48E-03	0.00E+00	1.56E-03	2.19E-03	4.49E+00	4.49E+00
85	0.827467	0.80946	1.0209	1.0213	2.46E-03	0.00E+00	1.60E-03	2.24E-03	4.57E+00	4.57E+00
86	0.838179	0.8201	1.017	1.0174	2.44E-03	0.00E+00	1.63E-03	2.29E-03	4.66E+00	4.66E+00
87	0.848681	0.83053	1.013	1.0133	2.41E-03	0.00E+00	1.67E-03	2.34E-03	4.75E+00	4.75E+00
88	0.858945	0.84072	1.0088	1.0092	2.39E-03	0.00E+00	1.71E-03	2.40E-03	4.84E+00	4.84E+00
89	0.868969	0.85067	1.0044	1.0048	2.36E-03	0.00E+00	1.75E-03	2.46E-03	4.94E+00	4.94E+00
90	0.878751	0.86038	0.9998	1.0004	2.33E-03	0.00E+00	1.79E-03	2.52E-03	5.04E+00	5.04E+00
91	0.888285	0.86984	0.9954	0.9959	2.30E-03	0.00E+00	1.83E-03	2.58E-03	5.14E+00	5.13E+00
92	0.897568	0.87905	0.991	0.9914	2.27E-03	0.00E+00	1.87E-03	2.64E-03	5.24E+00	5.24E+00
93	0.906579	0.88799	0.9864	0.9868	2.24E-03	0.00E+00	1.91E-03	2.71E-03	5.34E+00	5.34E+00
94	0.915321	0.89666	0.9814	0.982	2.20E-03	0.00E+00	1.96E-03	2.78E-03	5.45E+00	5.45E+00
95	0.923791	0.90506	0.9764	0.9771	2.17E-03	0.00E+00	2.00E-03	2.85E-03	5.57E+00	5.57E+00
96	0.93198	0.91318	0.9714	0.9722	2.13E-03	0.00E+00	2.05E-03	2.92E-03	5.68E+00	5.68E+00
97	0.939878	0.92101	0.9662	0.9669	2.08E-03	0.00E+00	2.10E-03	3.00E-03	5.80E+00	5.80E+00
98	0.947485	0.92855	0.9603	0.9613	2.03E-03	0.00E+00	2.15E-03	3.09E-03	5.93E+00	5.93E+00
99	0.954799	0.9358	0.9542	0.9554	1.98E-03	0.00E+00	2.20E-03	3.18E-03	6.07E+00	6.07E+00
100	0.961803	0.94274	0.9483	0.9499	1.93E-03	0.00E+00	2.26E-03	3.27E-03	6.21E+00	6.21E+00
101	0.968505	0.94938	0.9423	0.9438	1.86E-03	0.00E+00	2.32E-03	3.37E-03	6.36E+00	6.36E+00
102	0.974884	0.9557	0.9354	0.9373	1.78E-03	0.00E+00	2.38E-03	3.48E-03	6.53E+00	6.52E+00
103	0.980963	0.96172	0.9274	0.9305	1.70E-03	0.00E+00	2.45E-03	3.60E-03	6.71E+00	6.71E+00
104	0.986709	0.96741	0.9192	0.9236	1.61E-03	0.00E+00	2.52E-03	3.74E-03	6.90E+00	6.90E+00
105	0.992131	0.97278	0.9104	0.9165	1.52E-03	0.00E+00	2.60E-03	3.88E-03	7.12E+00	7.11E+00
106	0.997059	0.97766	0.9009	0.9094	1.41E-03	0.00E+00	2.67E-03	4.03E-03	7.34E+00	7.34E+00
107	1.001333	0.98189	0.8909	0.9028	1.31E-03	0.00E+00	2.75E-03	4.19E-03	7.56E+00	7.56E+00
108	1.00502	0.98554	0.8809	0.8966	1.20E-03	0.00E+00	2.82E-03	4.33E-03	7.77E+00	7.77E+00
109	1.008172	0.98866	0.8706	0.891	1.10E-03	0.00E+00	2.89E-03	4.47E-03	7.97E+00	7.98E+00
110	1.010859	0.99132	0.8592	0.8861	1.01E-03	0.00E+00	2.95E-03	4.61E-03	8.17E+00	8.18E+00
111	1.013122	0.99356	0.8456	0.8817	9.29E-04	0.00E+00	3.01E-03	4.73E-03	8.35E+00	8.36E+00
112	1.015033	0.99545	0.8304	0.878	8.66E-04	0.00E+00	3.06E-03	4.85E-03	8.51E+00	8.53E+00
113	1.016639	0.99704	0.813	0.8748	8.26E-04	0.00E+00	3.10E-03	4.94E-03	8.65E+00	8.67E+00
114	1.017994	0.99838	0.7852	0.8722	8.42E-04	0.00E+00	3.14E-03	5.02E-03	8.77E+00	8.79E+00
115	1.019116	0.99949	0.7689	0.8708	9.31E-04	0.00E+00	3.16E-03	5.06E-03	8.82E+00	8.84E+00
116	1.020026	1.0004	0.7699	0.8694	0.00E+00	1.29E-01	3.18E-03	5.07E-03	8.81E+00	8.83E+00
117	1.021106	1.00148	0.7852	0.8697	0.00E+00	1.86E-01	3.18E-03	5.03E-03	8.76E+00	8.77E+00
118	1.022406	1.00278	0.8072	0.8711	0.00E+00	2.33E-01	3.17E-03	4.97E-03	8.65E+00	8.66E+00
119	1.023976	1.00435	0.8202	0.873	0.00E+00	2.71E-01	3.14E-03	4.88E-03	8.52E+00	8.53E+00

120	1.025856	1.00623	0.8359	0.8758	0.00E+00	3.06E-01	3.11E-03	4.78E-03	8.36E+00	8.37E+00
121	1.028126	1.0085	0.8519	0.8795	0.00E+00	3.38E-01	3.06E-03	4.65E-03	8.18E+00	8.18E+00
122	1.030846	1.01122	0.862	0.8835	0.00E+00	3.67E-01	3.01E-03	4.52E-03	7.98E+00	7.99E+00
123	1.034116	1.01449	0.8735	0.8882	0.00E+00	3.96E-01	2.96E-03	4.37E-03	7.77E+00	7.77E+00
124	1.038056	1.01843	0.8824	0.8934	0.00E+00	4.23E-01	2.90E-03	4.23E-03	7.56E+00	7.56E+00
125	1.042796	1.02317	0.8917	0.8991	0.00E+00	4.50E-01	2.83E-03	4.08E-03	7.33E+00	7.33E+00
126	1.048486	1.02886	0.9005	0.9053	0.00E+00	4.77E-01	2.77E-03	3.92E-03	7.10E+00	7.10E+00
127	1.055326	1.0357	0.9084	0.9117	0.00E+00	5.03E-01	2.70E-03	3.77E-03	6.88E+00	6.88E+00
128	1.063556	1.04393	0.9162	0.9183	0.00E+00	5.28E-01	2.64E-03	3.63E-03	6.66E+00	6.65E+00
129	1.073446	1.05382	0.9238	0.9251	0.00E+00	5.54E-01	2.57E-03	3.48E-03	6.44E+00	6.44E+00
130	1.085346	1.06572	0.931	0.9319	0.00E+00	5.79E-01	2.51E-03	3.35E-03	6.24E+00	6.23E+00
131	1.099646	1.08002	0.9379	0.9385	0.00E+00	6.03E-01	2.45E-03	3.22E-03	6.04E+00	6.03E+00
132	1.116846	1.09722	0.9445	0.9449	0.00E+00	6.28E-01	2.40E-03	3.10E-03	5.85E+00	5.84E+00
133	1.137526	1.1179	0.9507	0.9511	0.00E+00	6.52E-01	2.34E-03	2.98E-03	5.67E+00	5.66E+00
134	1.162386	1.14276	0.9566	0.9569	0.00E+00	6.76E-01	2.30E-03	2.88E-03	5.50E+00	5.50E+00
135	1.192276	1.17265	0.9621	0.9624	0.00E+00	7.00E-01	2.26E-03	2.78E-03	5.35E+00	5.34E+00
136	1.228226	1.2086	0.9672	0.9676	0.00E+00	7.24E-01	2.22E-03	2.69E-03	5.20E+00	5.19E+00
137	1.271436	1.25181	0.9719	0.9723	0.00E+00	7.47E-01	2.18E-03	2.60E-03	5.06E+00	5.06E+00
138	1.323406	1.30378	0.9763	0.9767	0.00E+00	7.69E-01	2.15E-03	2.53E-03	4.94E+00	4.93E+00
139	1.385886	1.36626	0.9801	0.9805	0.00E+00	7.91E-01	2.12E-03	2.46E-03	4.82E+00	4.82E+00
140	1.461006	1.44138	0.9835	0.9839	0.00E+00	8.11E-01	2.10E-03	2.40E-03	4.72E+00	4.72E+00
141	1.551326	1.5317	0.9865	0.9869	0.00E+00	8.31E-01	2.08E-03	2.34E-03	4.62E+00	4.62E+00
142	1.659936	1.64031	0.9892	0.9895	0.00E+00	8.48E-01	2.06E-03	2.29E-03	4.54E+00	4.54E+00
143	1.790516	1.77089	0.9913	0.9917	0.00E+00	8.64E-01	2.04E-03	2.25E-03	4.46E+00	4.46E+00
144	1.947516	1.92789	0.9932	0.9935	0.00E+00	8.79E-01	2.03E-03	2.21E-03	4.39E+00	4.39E+00
145	2.136296	2.11667	0.9947	0.995	0.00E+00	8.92E-01	2.01E-03	2.17E-03	4.32E+00	4.32E+00
146	2.363276	2.34365	0.9959	0.9962	0.00E+00	9.04E-01	1.99E-03	2.13E-03	4.25E+00	4.25E+00
147	2.636196	2.61657	0.9969	0.9971	0.00E+00	9.14E-01	1.97E-03	2.09E-03	4.17E+00	4.17E+00
148	2.964336	2.94471	0.9977	0.9979	0.00E+00	9.23E-01	1.94E-03	2.05E-03	4.10E+00	4.10E+00
149	3.358886	3.33926	0.9983	0.9984	0.00E+00	9.31E-01	1.91E-03	2.01E-03	4.01E+00	4.02E+00

a=4 degree										
nx	x	xc	uei	uev	cf	uc	theta	dls	dd	db
2	0.002762	-0.002218	0.2442	0.2442	4.34E-02	0.00E+00	1.66E-05	3.72E-05	1.82E-02	1.82E-02
3	0.005068	-0.001225	0.4227	0.4227	2.59E-02	0.00E+00	1.67E-05	3.69E-05	3.12E-02	3.12E-02
4	0.006955	-0.000611	0.5811	0.5811	1.96E-02	0.00E+00	1.61E-05	3.55E-05	4.12E-02	4.12E-02
5	0.008455	-0.000267	0.7134	0.7134	1.61E-02	0.00E+00	1.58E-05	3.50E-05	4.99E-02	4.99E-02
6	0.009605	-0.000098	0.814	0.814	1.41E-02	0.00E+00	1.57E-05	3.49E-05	5.68E-02	5.68E-02
7	0.010433	-0.000026	0.886	0.886	1.30E-02	0.00E+00	1.57E-05	3.48E-05	6.16E-02	6.16E-02
8	0.010927	-0.000005	0.9304	0.9304	1.20E-02	0.00E+00	1.58E-05	3.52E-05	6.54E-02	6.54E-02
9	0.011185	0	0.949	0.949	1.13E-02	0.00E+00	1.60E-05	3.58E-05	6.80E-02	6.80E-02
10	0.011389	0	0.9618	0.9618	1.10E-02	0.00E+00	1.61E-05	3.64E-05	6.99E-02	6.99E-02
11	0.011648	0.000005	0.981	0.981	1.09E-02	0.00E+00	1.63E-05	3.66E-05	7.17E-02	7.17E-02
12	0.012142	0.000026	1.0155	1.0155	1.04E-02	0.00E+00	1.64E-05	3.69E-05	7.49E-02	7.49E-02
13	0.01297	0.000098	1.0761	1.0761	9.79E-03	0.00E+00	1.67E-05	3.73E-05	8.03E-02	8.03E-02
14	0.014119	0.000267	1.1565	1.1565	8.91E-03	0.00E+00	1.69E-05	3.80E-05	8.79E-02	8.79E-02
15	0.01562	0.000611	1.2508	1.2444	7.86E-03	0.00E+00	1.76E-05	3.98E-05	9.92E-02	9.92E-02
16	0.017506	0.001225	1.349	1.3424	6.82E-03	0.00E+00	1.85E-05	4.19E-05	1.12E-01	1.12E-01
17	0.019813	0.002218	1.4404	1.4337	5.73E-03	0.00E+00	1.98E-05	4.55E-05	1.31E-01	1.31E-01
18	0.022574	0.003699	1.5105	1.5053	4.67E-03	0.00E+00	2.23E-05	5.24E-05	1.58E-01	1.58E-01
19	0.025747	0.005697	1.5563	1.5511	4.03E-03	0.00E+00	2.55E-05	5.90E-05	1.83E-01	1.83E-01
20	0.029265	0.008186	1.5812	1.5755	3.84E-03	0.00E+00	3.03E-05	6.58E-05	2.07E-01	2.07E-01
21	0.033128	0.011156	1.59	1.5841	3.91E-03	0.00E+00	3.69E-05	7.45E-05	2.36E-01	2.36E-01
22	0.037331	0.014585	1.5882	1.5822	4.12E-03	0.00E+00	4.57E-05	8.55E-05	2.70E-01	2.70E-01
23	0.041873	0.018457	1.5801	1.5744	4.34E-03	0.00E+00	5.63E-05	9.93E-05	3.13E-01	3.13E-01
24	0.04675	0.022751	1.5684	1.563	4.44E-03	0.00E+00	6.89E-05	1.16E-04	3.62E-01	3.62E-01
25	0.051957	0.02745	1.5549	1.5501	4.41E-03	0.00E+00	8.28E-05	1.35E-04	4.19E-01	4.19E-01
26	0.057493	0.032541	1.5406	1.5364	4.32E-03	0.00E+00	9.79E-05	1.57E-04	4.81E-01	4.81E-01
27	0.063353	0.038009	1.5263	1.5225	4.18E-03	0.00E+00	1.14E-04	1.79E-04	5.46E-01	5.46E-01
28	0.069533	0.043844	1.5122	1.5089	4.03E-03	0.00E+00	1.30E-04	2.04E-04	6.15E-01	6.15E-01
29	0.076027	0.050033	1.4988	1.4957	3.90E-03	0.00E+00	1.48E-04	2.29E-04	6.84E-01	6.84E-01
30	0.082833	0.056571	1.4858	1.4828	3.80E-03	0.00E+00	1.66E-04	2.54E-04	7.54E-01	7.54E-01
31	0.089944	0.063446	1.4729	1.4703	3.70E-03	0.00E+00	1.84E-04	2.81E-04	8.28E-01	8.28E-01
32	0.097357	0.070651	1.4605	1.4581	3.60E-03	0.00E+00	2.03E-04	3.09E-04	9.01E-01	9.01E-01
33	0.105067	0.078176	1.4489	1.4465	3.53E-03	0.00E+00	2.23E-04	3.37E-04	9.75E-01	9.75E-01
34	0.113067	0.086014	1.4382	1.4359	3.47E-03	0.00E+00	2.43E-04	3.65E-04	1.05E+00	1.05E+00
35	0.121351	0.094157	1.428	1.4258	3.41E-03	0.00E+00	2.64E-04	3.95E-04	1.13E+00	1.13E+00
36	0.129916	0.102597	1.418	1.4161	3.35E-03	0.00E+00	2.85E-04	4.26E-04	1.21E+00	1.21E+00
37	0.138754	0.111328	1.4079	1.4061	3.28E-03	0.00E+00	3.07E-04	4.57E-04	1.29E+00	1.29E+00
38	0.14786	0.120341	1.3985	1.3967	3.23E-03	0.00E+00	3.30E-04	4.88E-04	1.36E+00	1.36E+00
39	0.157227	0.129628	1.3897	1.3878	3.20E-03	0.00E+00	3.54E-04	5.20E-04	1.44E+00	1.44E+00
40	0.166848	0.139181	1.3807	1.3789	3.17E-03	0.00E+00	3.78E-04	5.53E-04	1.53E+00	1.53E+00
41	0.176718	0.148995	1.3718	1.3702	3.14E-03	0.00E+00	4.03E-04	5.89E-04	1.61E+00	1.61E+00
42	0.186829	0.159058	1.3631	1.3615	3.10E-03	0.00E+00	4.28E-04	6.24E-04	1.70E+00	1.70E+00
43	0.197174	0.169364	1.3547	1.3533	3.06E-03	0.00E+00	4.54E-04	6.60E-04	1.79E+00	1.79E+00
44	0.207747	0.179905	1.3467	1.3454	3.02E-03	0.00E+00	4.80E-04	6.97E-04	1.88E+00	1.88E+00
45	0.21854	0.190672	1.3391	1.3377	3.00E-03	0.00E+00	5.07E-04	7.33E-04	1.96E+00	1.96E+00
46	0.229545	0.201657	1.3314	1.33	2.97E-03	0.00E+00	5.35E-04	7.72E-04	2.05E+00	2.05E+00
47	0.240755	0.212851	1.3236	1.3223	2.94E-03	0.00E+00	5.63E-04	8.11E-04	2.15E+00	2.15E+00
48	0.252163	0.224248	1.316	1.3149	2.91E-03	0.00E+00	5.92E-04	8.52E-04	2.24E+00	2.24E+00
49	0.263759	0.235836	1.3085	1.3074	2.88E-03	0.00E+00	6.21E-04	8.92E-04	2.33E+00	2.33E+00
50	0.275537	0.247608	1.3014	1.3003	2.85E-03	0.00E+00	6.50E-04	9.33E-04	2.43E+00	2.43E+00
51	0.287488	0.259557	1.2945	1.2934	2.83E-03	0.00E+00	6.81E-04	9.75E-04	2.52E+00	2.52E+00
52	0.299605	0.271671	1.2874	1.2864	2.80E-03	0.00E+00	7.13E-04	1.02E-03	2.62E+00	2.62E+00
53	0.311877	0.283943	1.2803	1.2794	2.77E-03	0.00E+00	7.44E-04	1.06E-03	2.72E+00	2.72E+00
54	0.324298	0.296364	1.2733	1.2724	2.75E-03	0.00E+00	7.77E-04	1.11E-03	2.82E+00	2.82E+00
55	0.336859	0.308924	1.2664	1.2656	2.73E-03	0.00E+00	8.10E-04	1.15E-03	2.92E+00	2.92E+00
56	0.349551	0.321616	1.2596	1.2589	2.71E-03	0.00E+00	8.45E-04	1.20E-03	3.02E+00	3.02E+00
57	0.362364	0.334428	1.2531	1.2525	2.68E-03	0.00E+00	8.78E-04	1.25E-03	3.13E+00	3.13E+00
58	0.375291	0.347353	1.2467	1.246	2.66E-03	0.00E+00	9.11E-04	1.30E-03	3.23E+00	3.23E+00
59	0.388323	0.360382	1.2402	1.2395	2.64E-03	0.00E+00	9.46E-04	1.34E-03	3.33E+00	3.33E+00

60	0.40145	0.373504	1.2338	1.2331	2.62E-03	0.00E+00	9.81E-04	1.39E-03	3.43E+00	3.43E+00
61	0.414663	0.386712	1.2273	1.2267	2.60E-03	0.00E+00	1.02E-03	1.44E-03	3.54E+00	3.54E+00
62	0.427954	0.399994	1.2209	1.2204	2.58E-03	0.00E+00	1.06E-03	1.49E-03	3.65E+00	3.65E+00
63	0.441313	0.413343	1.2147	1.2144	2.56E-03	0.00E+00	1.09E-03	1.55E-03	3.76E+00	3.76E+00
64	0.454731	0.426748	1.2087	1.2083	2.54E-03	0.00E+00	1.13E-03	1.60E-03	3.86E+00	3.86E+00
65	0.468198	0.440201	1.2028	1.2024	2.52E-03	0.00E+00	1.16E-03	1.65E-03	3.97E+00	3.97E+00
66	0.481706	0.453692	1.1967	1.1963	2.51E-03	0.00E+00	1.20E-03	1.70E-03	4.07E+00	4.07E+00
67	0.495245	0.467211	1.1907	1.1904	2.49E-03	0.00E+00	1.24E-03	1.76E-03	4.18E+00	4.18E+00
68	0.508805	0.480749	1.1848	1.1845	2.47E-03	0.00E+00	1.28E-03	1.81E-03	4.29E+00	4.29E+00
69	0.522379	0.494298	1.1791	1.1788	2.45E-03	0.00E+00	1.32E-03	1.86E-03	4.39E+00	4.39E+00
70	0.535955	0.507847	1.1735	1.1732	2.44E-03	0.00E+00	1.35E-03	1.92E-03	4.50E+00	4.50E+00
71	0.549525	0.521388	1.168	1.1677	2.42E-03	0.00E+00	1.39E-03	1.97E-03	4.61E+00	4.61E+00
72	0.563079	0.534909	1.1627	1.1623	2.40E-03	0.00E+00	1.43E-03	2.03E-03	4.71E+00	4.71E+00
73	0.576608	0.548405	1.1574	1.157	2.38E-03	0.00E+00	1.47E-03	2.08E-03	4.82E+00	4.82E+00
74	0.590104	0.561863	1.152	1.1516	2.37E-03	0.00E+00	1.51E-03	2.14E-03	4.94E+00	4.94E+00
75	0.603555	0.575274	1.1465	1.1463	2.36E-03	0.00E+00	1.56E-03	2.20E-03	5.05E+00	5.05E+00
76	0.616953	0.58863	1.1411	1.141	2.34E-03	0.00E+00	1.60E-03	2.26E-03	5.17E+00	5.17E+00
77	0.630289	0.601923	1.1359	1.1359	2.32E-03	0.00E+00	1.64E-03	2.33E-03	5.28E+00	5.28E+00
78	0.643554	0.615142	1.131	1.1309	2.31E-03	0.00E+00	1.69E-03	2.39E-03	5.40E+00	5.40E+00
79	0.656739	0.628278	1.126	1.126	2.29E-03	0.00E+00	1.73E-03	2.45E-03	5.52E+00	5.52E+00
80	0.669834	0.641324	1.121	1.1212	2.28E-03	0.00E+00	1.77E-03	2.51E-03	5.64E+00	5.63E+00
81	0.682831	0.654268	1.1161	1.1163	2.26E-03	0.00E+00	1.82E-03	2.57E-03	5.75E+00	5.75E+00
82	0.695719	0.667103	1.1116	1.1116	2.24E-03	0.00E+00	1.86E-03	2.63E-03	5.86E+00	5.85E+00
83	0.708492	0.67982	1.1071	1.1068	2.23E-03	0.00E+00	1.90E-03	2.69E-03	5.96E+00	5.96E+00
84	0.721139	0.69241	1.1021	1.1018	2.21E-03	0.00E+00	1.94E-03	2.76E-03	6.08E+00	6.08E+00
85	0.733652	0.704862	1.0968	1.0967	2.19E-03	0.00E+00	1.99E-03	2.82E-03	6.20E+00	6.19E+00
86	0.746022	0.717172	1.0921	1.0919	2.18E-03	0.00E+00	2.03E-03	2.89E-03	6.31E+00	6.31E+00
87	0.758242	0.72933	1.088	1.0873	2.16E-03	0.00E+00	2.07E-03	2.95E-03	6.42E+00	6.42E+00
88	0.770302	0.741325	1.0834	1.0826	2.14E-03	0.00E+00	2.12E-03	3.02E-03	6.54E+00	6.54E+00
89	0.782194	0.753151	1.0783	1.0776	2.12E-03	0.00E+00	2.17E-03	3.09E-03	6.67E+00	6.66E+00
90	0.79391	0.764799	1.073	1.0723	2.09E-03	0.00E+00	2.22E-03	3.17E-03	6.80E+00	6.80E+00
91	0.805442	0.776261	1.0674	1.0669	2.06E-03	0.00E+00	2.27E-03	3.25E-03	6.94E+00	6.94E+00
92	0.816782	0.78753	1.0618	1.0614	2.03E-03	0.00E+00	2.33E-03	3.34E-03	7.08E+00	7.08E+00
93	0.827922	0.798598	1.0564	1.0561	2.01E-03	0.00E+00	2.38E-03	3.42E-03	7.22E+00	7.22E+00
94	0.838854	0.809458	1.0512	1.0508	1.99E-03	0.00E+00	2.44E-03	3.51E-03	7.37E+00	7.37E+00
95	0.849572	0.820104	1.0461	1.0456	1.96E-03	0.00E+00	2.50E-03	3.59E-03	7.51E+00	7.51E+00
96	0.860067	0.830526	1.0408	1.0404	1.93E-03	0.00E+00	2.55E-03	3.68E-03	7.66E+00	7.66E+00
97	0.870332	0.840717	1.0354	1.0349	1.90E-03	0.00E+00	2.61E-03	3.78E-03	7.82E+00	7.82E+00
98	0.88036	0.850672	1.0297	1.0292	1.86E-03	0.00E+00	2.67E-03	3.87E-03	7.97E+00	7.97E+00
99	0.890144	0.860383	1.024	1.0235	1.83E-03	0.00E+00	2.73E-03	3.97E-03	8.14E+00	8.14E+00
100	0.899679	0.869844	1.0183	1.0178	1.80E-03	0.00E+00	2.79E-03	4.08E-03	8.30E+00	8.30E+00
101	0.908956	0.879049	1.0127	1.012	1.76E-03	0.00E+00	2.86E-03	4.19E-03	8.47E+00	8.48E+00
102	0.91797	0.887991	1.007	1.0061	1.72E-03	0.00E+00	2.92E-03	4.30E-03	8.65E+00	8.66E+00
103	0.926714	0.896665	1.0008	1.0001	1.67E-03	0.00E+00	2.99E-03	4.42E-03	8.84E+00	8.85E+00
104	0.935182	0.905062	0.9947	0.994	1.63E-03	0.00E+00	3.07E-03	4.55E-03	9.04E+00	9.05E+00
105	0.943369	0.91318	0.9886	0.9878	1.58E-03	0.00E+00	3.14E-03	4.68E-03	9.25E+00	9.25E+00
106	0.951269	0.921013	0.9822	0.9817	1.53E-03	0.00E+00	3.23E-03	4.83E-03	9.48E+00	9.48E+00
107	0.958876	0.928553	0.9752	0.9753	1.47E-03	0.00E+00	3.31E-03	4.98E-03	9.72E+00	9.72E+00
108	0.966186	0.935796	0.9679	0.9688	1.41E-03	0.00E+00	3.40E-03	5.15E-03	9.98E+00	9.98E+00
109	0.973192	0.942739	0.961	0.9623	1.35E-03	0.00E+00	3.49E-03	5.32E-03	1.02E+01	1.02E+01
110	0.979891	0.949377	0.9539	0.9558	1.28E-03	0.00E+00	3.59E-03	5.50E-03	1.05E+01	1.05E+01
111	0.986277	0.955704	0.9459	0.9492	1.21E-03	0.00E+00	3.68E-03	5.70E-03	1.08E+01	1.08E+01
112	0.992347	0.961716	0.9368	0.9423	1.12E-03	0.00E+00	3.78E-03	5.91E-03	1.11E+01	1.12E+01
113	0.998096	0.967408	0.9275	0.9354	1.03E-03	0.00E+00	3.89E-03	6.14E-03	1.15E+01	1.15E+01
114	1.00352	0.97278	0.9176	0.9288	9.56E-04	0.00E+00	4.00E-03	6.37E-03	1.18E+01	1.19E+01
115	1.008445	0.977655	0.907	0.9226	8.89E-04	0.00E+00	4.11E-03	6.61E-03	1.22E+01	1.22E+01
116	1.012723	0.981892	0.8961	0.917	8.32E-04	0.00E+00	4.22E-03	6.84E-03	1.25E+01	1.26E+01
117	1.01641	0.985541	0.8851	0.912	7.82E-04	0.00E+00	4.31E-03	7.06E-03	1.29E+01	1.29E+01
118	1.019563	0.988662	0.8739	0.9077	7.37E-04	0.00E+00	4.39E-03	7.25E-03	1.32E+01	1.32E+01
119	1.022243	0.991315	0.8616	0.9039	6.96E-04	0.00E+00	4.47E-03	7.43E-03	1.34E+01	1.35E+01

120	1.024511	0.993559	0.8473	0.9007	6.61E-04	0.00E+00	4.54E-03	7.60E-03	1.37E+01	1.37E+01
121	1.026423	0.995451	0.8313	0.898	6.36E-04	0.00E+00	4.60E-03	7.74E-03	1.39E+01	1.39E+01
122	1.028032	0.997043	0.8132	0.8957	6.23E-04	0.00E+00	4.65E-03	7.86E-03	1.41E+01	1.41E+01
123	1.029382	0.998379	0.7843	0.8939	6.42E-04	0.00E+00	4.69E-03	7.96E-03	1.42E+01	1.43E+01
124	1.030508	0.999494	0.7673	0.8929	7.01E-04	0.00E+00	4.72E-03	8.01E-03	1.43E+01	1.43E+01
125	1.03141	1.000395	0.768	0.8919	0.00E+00	1.11E-01	4.74E-03	8.02E-03	1.43E+01	1.43E+01
126	1.032493	1.001479	0.7833	0.8919	0.00E+00	1.58E-01	4.74E-03	7.99E-03	1.43E+01	1.43E+01
127	1.033796	1.002781	0.8052	0.8924	0.00E+00	1.96E-01	4.73E-03	7.93E-03	1.42E+01	1.42E+01
128	1.035363	1.004348	0.8183	0.8932	0.00E+00	2.27E-01	4.72E-03	7.85E-03	1.40E+01	1.40E+01
129	1.037247	1.006232	0.8339	0.8946	0.00E+00	2.55E-01	4.69E-03	7.74E-03	1.38E+01	1.39E+01
130	1.039512	1.008497	0.8499	0.8965	0.00E+00	2.82E-01	4.65E-03	7.61E-03	1.36E+01	1.37E+01
131	1.042235	1.01122	0.8599	0.8987	0.00E+00	3.06E-01	4.62E-03	7.46E-03	1.34E+01	1.34E+01
132	1.045509	1.014494	0.8714	0.9016	0.00E+00	3.31E-01	4.57E-03	7.30E-03	1.32E+01	1.32E+01
133	1.049446	1.018431	0.8803	0.9048	0.00E+00	3.55E-01	4.52E-03	7.12E-03	1.29E+01	1.29E+01
134	1.05418	1.023165	0.8896	0.9084	0.00E+00	3.79E-01	4.45E-03	6.92E-03	1.26E+01	1.26E+01
135	1.059872	1.028857	0.8984	0.9125	0.00E+00	4.03E-01	4.38E-03	6.72E-03	1.23E+01	1.23E+01
136	1.066716	1.0357	0.9063	0.917	0.00E+00	4.27E-01	4.31E-03	6.50E-03	1.19E+01	1.19E+01
137	1.074944	1.043928	0.9141	0.9219	0.00E+00	4.51E-01	4.23E-03	6.28E-03	1.16E+01	1.16E+01
138	1.084838	1.053821	0.9217	0.9273	0.00E+00	4.76E-01	4.15E-03	6.05E-03	1.12E+01	1.12E+01
139	1.096734	1.065715	0.9289	0.9329	0.00E+00	5.01E-01	4.06E-03	5.82E-03	1.09E+01	1.09E+01
140	1.111037	1.080017	0.9359	0.9386	0.00E+00	5.26E-01	3.97E-03	5.60E-03	1.05E+01	1.05E+01
141	1.128234	1.097211	0.9425	0.9444	0.00E+00	5.51E-01	3.89E-03	5.38E-03	1.02E+01	1.02E+01
142	1.148912	1.117885	0.9487	0.9502	0.00E+00	5.77E-01	3.81E-03	5.18E-03	9.84E+00	9.85E+00
143	1.173775	1.142742	0.9546	0.9558	0.00E+00	6.03E-01	3.74E-03	4.98E-03	9.52E+00	9.53E+00
144	1.203668	1.172628	0.9602	0.9611	0.00E+00	6.29E-01	3.67E-03	4.80E-03	9.22E+00	9.23E+00
145	1.239612	1.20856	0.9654	0.9662	0.00E+00	6.55E-01	3.61E-03	4.63E-03	8.94E+00	8.95E+00
146	1.282829	1.25176	0.9702	0.9709	0.00E+00	6.81E-01	3.55E-03	4.47E-03	8.67E+00	8.68E+00
147	1.334791	1.303699	0.9747	0.9753	0.00E+00	7.07E-01	3.50E-03	4.32E-03	8.43E+00	8.43E+00
148	1.39727	1.366144	0.9786	0.9792	0.00E+00	7.32E-01	3.45E-03	4.19E-03	8.20E+00	8.21E+00
149	1.472392	1.44122	0.9821	0.9827	0.00E+00	7.56E-01	3.41E-03	4.07E-03	7.99E+00	8.00E+00
150	1.562716	1.53148	0.9852	0.9858	0.00E+00	7.80E-01	3.38E-03	3.96E-03	7.80E+00	7.81E+00
151	1.671318	1.639995	0.988	0.9886	0.00E+00	8.02E-01	3.34E-03	3.86E-03	7.63E+00	7.64E+00
152	1.801898	1.770455	0.9903	0.9908	0.00E+00	8.22E-01	3.32E-03	3.78E-03	7.48E+00	7.49E+00
153	1.958903	1.927299	0.9923	0.9928	0.00E+00	8.41E-01	3.30E-03	3.70E-03	7.35E+00	7.35E+00
154	2.147681	2.115861	0.9939	0.9944	0.00E+00	8.58E-01	3.28E-03	3.63E-03	7.23E+00	7.24E+00
155	2.374661	2.342556	0.9953	0.9957	0.00E+00	8.73E-01	3.26E-03	3.58E-03	7.12E+00	7.13E+00
156	2.647574	2.615093	0.9964	0.9967	0.00E+00	8.87E-01	3.25E-03	3.53E-03	7.03E+00	7.03E+00
157	2.975716	2.942748	0.9972	0.9976	0.00E+00	8.99E-01	3.23E-03	3.48E-03	6.94E+00	6.95E+00
158	3.370263	3.33667	0.9979	0.9982	0.00E+00	9.10E-01	3.22E-03	3.43E-03	6.86E+00	6.86E+00

a=8 degree										
nx	x	xc	uei	uev	cf	uc	theta	dls	dd	db
2	0.004542	-0.014585	0.0871	0.0871	5.89E-02	0.00E+00	3.48E-05	7.74E-05	1.35E-02	1.35E-02
3	0.008745	-0.011156	0.2368	0.2368	3.19E-02	0.00E+00	2.56E-05	5.55E-05	2.63E-02	2.63E-02
4	0.012608	-0.008186	0.4136	0.4136	2.12E-02	0.00E+00	2.12E-05	4.66E-05	3.85E-02	3.85E-02
5	0.016126	-0.005697	0.6177	0.6177	1.57E-02	0.00E+00	1.93E-05	4.23E-05	5.23E-02	5.23E-02
6	0.019298	-0.003699	0.8466	0.8466	1.27E-02	0.00E+00	1.75E-05	3.83E-05	6.48E-02	6.48E-02
7	0.02206	-0.002218	1.0873	1.0873	1.06E-02	0.00E+00	1.62E-05	3.55E-05	7.72E-02	7.72E-02
8	0.024366	-0.001225	1.3082	1.3082	9.20E-03	0.00E+00	1.55E-05	3.40E-05	8.89E-02	8.89E-02
9	0.026253	-0.000611	1.4957	1.4957	8.16E-03	0.00E+00	1.51E-05	3.33E-05	9.95E-02	9.95E-02
10	0.027754	-0.000267	1.6459	1.6459	7.40E-03	0.00E+00	1.50E-05	3.31E-05	1.09E-01	1.09E-01
11	0.028903	-0.000098	1.7558	1.7558	6.85E-03	0.00E+00	1.50E-05	3.32E-05	1.17E-01	1.17E-01
12	0.029731	-0.000026	1.833	1.833	6.58E-03	0.00E+00	1.50E-05	3.33E-05	1.22E-01	1.22E-01
13	0.030225	-0.000005	1.8818	1.8818	6.15E-03	0.00E+00	1.51E-05	3.37E-05	1.27E-01	1.27E-01
14	0.030484	0	1.8999	1.8999	5.84E-03	0.00E+00	1.52E-05	3.43E-05	1.30E-01	1.30E-01
15	0.030688	0	1.9125	1.9125	5.71E-03	0.00E+00	1.54E-05	3.47E-05	1.33E-01	1.33E-01
16	0.030946	0.000005	1.932	1.932	5.63E-03	0.00E+00	1.55E-05	3.51E-05	1.35E-01	1.35E-01
17	0.03144	0.000026	1.9616	1.9546	5.25E-03	0.00E+00	1.60E-05	3.67E-05	1.43E-01	1.43E-01
18	0.032268	0.000098	2.0161	2.0065	5.02E-03	0.00E+00	1.63E-05	3.72E-05	1.49E-01	1.49E-01
19	0.033417	0.000267	2.0859	2.0756	4.78E-03	0.00E+00	1.67E-05	3.81E-05	1.58E-01	1.58E-01
20	0.034918	0.000611	2.1607	2.1507	4.38E-03	0.00E+00	1.75E-05	4.01E-05	1.72E-01	1.72E-01
21	0.036805	0.001225	2.228	2.2177	3.93E-03	0.00E+00	1.89E-05	4.29E-05	1.90E-01	1.90E-01
22	0.039111	0.002218	2.275	2.2651	3.48E-03	0.00E+00	2.13E-05	4.77E-05	2.16E-01	2.16E-01
23	0.041873	0.003699	2.287	2.2777	3.18E-03	0.00E+00	2.53E-05	5.48E-05	2.50E-01	2.50E-01
24	0.045045	0.005697	2.2707	2.2614	3.12E-03	0.00E+00	3.12E-05	6.36E-05	2.87E-01	2.87E-01
25	0.048564	0.008186	2.2351	2.2258	3.23E-03	0.00E+00	3.91E-05	7.46E-05	3.32E-01	3.32E-01
26	0.052426	0.011156	2.1872	2.1783	3.38E-03	0.00E+00	4.93E-05	8.87E-05	3.86E-01	3.86E-01
27	0.056629	0.014585	2.1344	2.1262	3.50E-03	0.00E+00	6.16E-05	1.06E-04	4.50E-01	4.50E-01
28	0.061171	0.018457	2.0812	2.0738	3.57E-03	0.00E+00	7.60E-05	1.26E-04	5.24E-01	5.24E-01
29	0.066048	0.022751	2.0297	2.0228	3.57E-03	0.00E+00	9.11E-05	1.49E-04	6.03E-01	6.03E-01
30	0.071256	0.02745	1.9815	1.9755	3.48E-03	0.00E+00	1.08E-04	1.75E-04	6.90E-01	6.90E-01
31	0.076792	0.032541	1.9365	1.931	3.37E-03	0.00E+00	1.27E-04	2.02E-04	7.81E-01	7.81E-01
32	0.082652	0.038009	1.8951	1.8902	3.29E-03	0.00E+00	1.48E-04	2.32E-04	8.76E-01	8.76E-01
33	0.088831	0.043844	1.857	1.8526	3.23E-03	0.00E+00	1.69E-04	2.63E-04	9.74E-01	9.74E-01
34	0.095325	0.050033	1.8223	1.818	3.17E-03	0.00E+00	1.91E-04	2.95E-04	1.07E+00	1.07E+00
35	0.102131	0.056571	1.79	1.7863	3.08E-03	0.00E+00	2.14E-04	3.29E-04	1.18E+00	1.18E+00
36	0.109243	0.063446	1.7597	1.7562	3.00E-03	0.00E+00	2.39E-04	3.65E-04	1.28E+00	1.28E+00
37	0.116656	0.070651	1.7316	1.7284	2.96E-03	0.00E+00	2.63E-04	4.02E-04	1.39E+00	1.39E+00
38	0.124365	0.078176	1.7058	1.7029	2.91E-03	0.00E+00	2.89E-04	4.39E-04	1.50E+00	1.50E+00
39	0.132365	0.086014	1.6821	1.6791	2.87E-03	0.00E+00	3.15E-04	4.77E-04	1.60E+00	1.60E+00
40	0.14065	0.094157	1.6599	1.657	2.82E-03	0.00E+00	3.42E-04	5.16E-04	1.71E+00	1.71E+00
41	0.149214	0.102597	1.6389	1.6361	2.79E-03	0.00E+00	3.70E-04	5.56E-04	1.82E+00	1.82E+00
42	0.158052	0.111328	1.6184	1.6161	2.76E-03	0.00E+00	3.99E-04	5.99E-04	1.94E+00	1.94E+00
43	0.167158	0.120341	1.5997	1.5972	2.72E-03	0.00E+00	4.28E-04	6.42E-04	2.05E+00	2.05E+00
44	0.176525	0.129628	1.582	1.5796	2.68E-03	0.00E+00	4.59E-04	6.85E-04	2.16E+00	2.16E+00
45	0.186146	0.139181	1.5647	1.5626	2.64E-03	0.00E+00	4.90E-04	7.31E-04	2.28E+00	2.28E+00
46	0.196016	0.148995	1.548	1.5458	2.61E-03	0.00E+00	5.23E-04	7.77E-04	2.40E+00	2.40E+00
47	0.206127	0.159058	1.5321	1.5302	2.59E-03	0.00E+00	5.55E-04	8.24E-04	2.52E+00	2.52E+00
48	0.216473	0.169364	1.5168	1.5148	2.57E-03	0.00E+00	5.89E-04	8.72E-04	2.64E+00	2.64E+00
49	0.227046	0.179905	1.5024	1.5005	2.54E-03	0.00E+00	6.23E-04	9.21E-04	2.76E+00	2.76E+00
50	0.237839	0.190672	1.4889	1.4869	2.52E-03	0.00E+00	6.58E-04	9.70E-04	2.88E+00	2.88E+00
51	0.248844	0.201657	1.4754	1.4736	2.49E-03	0.00E+00	6.94E-04	1.02E-03	3.01E+00	3.01E+00
52	0.260053	0.212851	1.4621	1.4602	2.47E-03	0.00E+00	7.32E-04	1.07E-03	3.14E+00	3.14E+00
53	0.271461	0.224248	1.4492	1.4475	2.45E-03	0.00E+00	7.70E-04	1.13E-03	3.27E+00	3.27E+00
54	0.283058	0.235836	1.4369	1.4353	2.44E-03	0.00E+00	8.10E-04	1.18E-03	3.40E+00	3.40E+00
55	0.294836	0.247608	1.4252	1.4237	2.42E-03	0.00E+00	8.48E-04	1.24E-03	3.53E+00	3.53E+00
56	0.306787	0.259557	1.4137	1.412	2.39E-03	0.00E+00	8.89E-04	1.30E-03	3.66E+00	3.66E+00
57	0.318903	0.271671	1.4023	1.4007	2.37E-03	0.00E+00	9.31E-04	1.35E-03	3.79E+00	3.79E+00
58	0.331176	0.283943	1.3911	1.3897	2.35E-03	0.00E+00	9.73E-04	1.41E-03	3.93E+00	3.93E+00
59	0.343596	0.296364	1.3802	1.3787	2.33E-03	0.00E+00	1.02E-03	1.47E-03	4.07E+00	4.07E+00

60	0.356157	0.308924	1.3696	1.3682	2.32E-03	0.00E+00	1.06E-03	1.54E-03	4.21E+00	4.21E+00
61	0.368849	0.321616	1.3592	1.358	2.30E-03	0.00E+00	1.11E-03	1.60E-03	4.35E+00	4.35E+00
62	0.381662	0.334428	1.3493	1.3482	2.28E-03	0.00E+00	1.15E-03	1.66E-03	4.49E+00	4.49E+00
63	0.394589	0.347353	1.3396	1.3383	2.27E-03	0.00E+00	1.19E-03	1.73E-03	4.62E+00	4.62E+00
64	0.407621	0.360382	1.3299	1.3285	2.25E-03	0.00E+00	1.24E-03	1.79E-03	4.76E+00	4.76E+00
65	0.420748	0.373504	1.3203	1.3191	2.23E-03	0.00E+00	1.29E-03	1.86E-03	4.91E+00	4.91E+00
66	0.433961	0.386712	1.3109	1.3098	2.21E-03	0.00E+00	1.34E-03	1.93E-03	5.06E+00	5.06E+00
67	0.447252	0.399994	1.3015	1.3007	2.20E-03	0.00E+00	1.39E-03	2.00E-03	5.21E+00	5.21E+00
68	0.460611	0.413343	1.2927	1.2917	2.18E-03	0.00E+00	1.43E-03	2.07E-03	5.35E+00	5.35E+00
69	0.474029	0.426748	1.2841	1.2831	2.16E-03	0.00E+00	1.48E-03	2.14E-03	5.49E+00	5.50E+00
70	0.487497	0.440201	1.2756	1.2745	2.14E-03	0.00E+00	1.53E-03	2.21E-03	5.64E+00	5.64E+00
71	0.501004	0.453692	1.267	1.2659	2.13E-03	0.00E+00	1.58E-03	2.29E-03	5.79E+00	5.79E+00
72	0.514543	0.467211	1.2586	1.2576	2.11E-03	0.00E+00	1.63E-03	2.36E-03	5.94E+00	5.94E+00
73	0.528104	0.480749	1.2504	1.2494	2.10E-03	0.00E+00	1.68E-03	2.44E-03	6.09E+00	6.09E+00
74	0.541677	0.494298	1.2425	1.2415	2.08E-03	0.00E+00	1.74E-03	2.51E-03	6.24E+00	6.24E+00
75	0.555253	0.507847	1.2348	1.2337	2.06E-03	0.00E+00	1.79E-03	2.59E-03	6.39E+00	6.39E+00
76	0.568823	0.521388	1.2272	1.2261	2.05E-03	0.00E+00	1.84E-03	2.67E-03	6.55E+00	6.55E+00
77	0.582377	0.534909	1.2199	1.2188	2.03E-03	0.00E+00	1.90E-03	2.75E-03	6.70E+00	6.70E+00
78	0.595907	0.548405	1.2125	1.2114	2.02E-03	0.00E+00	1.95E-03	2.83E-03	6.86E+00	6.86E+00
79	0.609402	0.561863	1.2052	1.2042	2.00E-03	0.00E+00	2.01E-03	2.92E-03	7.03E+00	7.03E+00
80	0.622853	0.575274	1.1978	1.1969	1.98E-03	0.00E+00	2.07E-03	3.01E-03	7.19E+00	7.19E+00
81	0.636251	0.58863	1.1905	1.1898	1.96E-03	0.00E+00	2.13E-03	3.09E-03	7.36E+00	7.36E+00
82	0.649588	0.601923	1.1838	1.1831	1.95E-03	0.00E+00	2.19E-03	3.18E-03	7.53E+00	7.53E+00
83	0.662853	0.615142	1.1771	1.1763	1.93E-03	0.00E+00	2.25E-03	3.27E-03	7.69E+00	7.69E+00
84	0.676037	0.628278	1.1704	1.1695	1.91E-03	0.00E+00	2.31E-03	3.36E-03	7.85E+00	7.85E+00
85	0.689133	0.641324	1.1637	1.1628	1.89E-03	0.00E+00	2.37E-03	3.45E-03	8.01E+00	8.01E+00
86	0.702129	0.654268	1.1573	1.1562	1.88E-03	0.00E+00	2.42E-03	3.54E-03	8.17E+00	8.18E+00
87	0.715018	0.667103	1.1514	1.1499	1.86E-03	0.00E+00	2.48E-03	3.62E-03	8.33E+00	8.33E+00
88	0.72779	0.67982	1.1453	1.1436	1.84E-03	0.00E+00	2.54E-03	3.72E-03	8.50E+00	8.50E+00
89	0.740437	0.69241	1.1387	1.1371	1.82E-03	0.00E+00	2.61E-03	3.82E-03	8.68E+00	8.68E+00
90	0.75295	0.704862	1.1318	1.1306	1.80E-03	0.00E+00	2.68E-03	3.92E-03	8.86E+00	8.86E+00
91	0.765321	0.717172	1.1261	1.1244	1.78E-03	0.00E+00	2.74E-03	4.02E-03	9.04E+00	9.04E+00
92	0.77754	0.72933	1.1206	1.1184	1.76E-03	0.00E+00	2.80E-03	4.12E-03	9.21E+00	9.21E+00
93	0.7896	0.741325	1.1145	1.1121	1.73E-03	0.00E+00	2.87E-03	4.23E-03	9.40E+00	9.40E+00
94	0.801492	0.753151	1.1078	1.1056	1.70E-03	0.00E+00	2.95E-03	4.34E-03	9.61E+00	9.61E+00
95	0.813208	0.764799	1.1011	1.099	1.67E-03	0.00E+00	3.03E-03	4.47E-03	9.82E+00	9.82E+00
96	0.82474	0.776261	1.0942	1.0923	1.64E-03	0.00E+00	3.11E-03	4.60E-03	1.00E+01	1.00E+01
97	0.836081	0.78753	1.0873	1.0857	1.61E-03	0.00E+00	3.18E-03	4.73E-03	1.03E+01	1.03E+01
98	0.84722	0.798598	1.0809	1.0791	1.58E-03	0.00E+00	3.26E-03	4.86E-03	1.05E+01	1.05E+01
99	0.858153	0.809458	1.0745	1.0724	1.55E-03	0.00E+00	3.34E-03	5.00E-03	1.07E+01	1.07E+01
100	0.86887	0.820104	1.0681	1.0658	1.52E-03	0.00E+00	3.43E-03	5.14E-03	1.10E+01	1.10E+01
101	0.879365	0.830526	1.0617	1.0591	1.48E-03	0.00E+00	3.51E-03	5.29E-03	1.12E+01	1.12E+01
102	0.88963	0.840717	1.055	1.0524	1.44E-03	0.00E+00	3.60E-03	5.44E-03	1.15E+01	1.15E+01
103	0.899658	0.850672	1.0482	1.0456	1.40E-03	0.00E+00	3.69E-03	5.61E-03	1.17E+01	1.17E+01
104	0.909443	0.860383	1.0413	1.0388	1.36E-03	0.00E+00	3.78E-03	5.78E-03	1.20E+01	1.20E+01
105	0.918977	0.869844	1.0347	1.0321	1.32E-03	0.00E+00	3.87E-03	5.96E-03	1.23E+01	1.23E+01
106	0.928254	0.879049	1.028	1.0254	1.28E-03	0.00E+00	3.97E-03	6.14E-03	1.26E+01	1.26E+01
107	0.937268	0.887991	1.0211	1.0185	1.23E-03	0.00E+00	4.07E-03	6.34E-03	1.29E+01	1.29E+01
108	0.946012	0.896665	1.0138	1.0117	1.17E-03	0.00E+00	4.18E-03	6.55E-03	1.32E+01	1.33E+01
109	0.954481	0.905062	1.0067	1.0049	1.12E-03	0.00E+00	4.28E-03	6.77E-03	1.36E+01	1.36E+01
110	0.962668	0.91318	0.9997	0.9981	1.07E-03	0.00E+00	4.39E-03	6.99E-03	1.40E+01	1.40E+01
111	0.970568	0.921013	0.9921	0.9912	1.02E-03	0.00E+00	4.51E-03	7.24E-03	1.44E+01	1.44E+01
112	0.978175	0.928553	0.984	0.9843	9.68E-04	0.00E+00	4.63E-03	7.50E-03	1.48E+01	1.48E+01
113	0.985484	0.935796	0.9758	0.9776	9.23E-04	0.00E+00	4.75E-03	7.77E-03	1.52E+01	1.52E+01
114	0.99249	0.942739	0.9682	0.971	8.77E-04	0.00E+00	4.87E-03	8.05E-03	1.56E+01	1.56E+01
115	0.999189	0.949377	0.9601	0.9645	8.28E-04	0.00E+00	4.99E-03	8.35E-03	1.61E+01	1.61E+01
116	1.005576	0.955704	0.9506	0.9581	7.79E-04	0.00E+00	5.14E-03	8.66E-03	1.66E+01	1.66E+01
117	1.011646	0.961716	0.9405	0.9521	7.35E-04	0.00E+00	5.28E-03	8.99E-03	1.71E+01	1.71E+01
118	1.017394	0.967408	0.9306	0.9464	6.90E-04	0.00E+00	5.42E-03	9.33E-03	1.77E+01	1.77E+01
119	1.022818	0.97278	0.9195	0.9409	6.44E-04	0.00E+00	5.56E-03	9.67E-03	1.82E+01	1.82E+01

120	1.027743	0.977655	0.908	0.9359	6.00E-04	0.00E+00	5.69E-03	1.00E-02	1.87E+01	1.87E+01
121	1.032022	0.981892	0.8962	0.9316	5.62E-04	0.00E+00	5.81E-03	1.03E-02	1.92E+01	1.92E+01
122	1.035708	0.985541	0.8849	0.9278	5.29E-04	0.00E+00	5.92E-03	1.06E-02	1.97E+01	1.97E+01
123	1.038861	0.988662	0.8729	0.9247	4.99E-04	0.00E+00	6.02E-03	1.09E-02	2.01E+01	2.01E+01
124	1.041542	0.991315	0.8594	0.9219	4.72E-04	0.00E+00	6.10E-03	1.11E-02	2.04E+01	2.05E+01
125	1.043809	0.993559	0.8435	0.9196	4.52E-04	0.00E+00	6.18E-03	1.13E-02	2.08E+01	2.08E+01
126	1.045721	0.995451	0.8275	0.9177	4.35E-04	0.00E+00	6.23E-03	1.15E-02	2.10E+01	2.11E+01
127	1.04733	0.997043	0.8088	0.9161	4.18E-04	0.00E+00	6.27E-03	1.16E-02	2.12E+01	2.13E+01
128	1.04868	0.998379	0.7795	0.9148	4.30E-04	0.00E+00	6.32E-03	1.17E-02	2.14E+01	2.15E+01
129	1.049807	0.999494	0.762	0.9141	4.86E-04	0.00E+00	6.35E-03	1.18E-02	2.15E+01	2.16E+01
130	1.050708	1.000395	0.7625	0.9133	0.00E+00	8.83E-02	6.37E-03	1.18E-02	2.15E+01	2.16E+01
131	1.051792	1.001479	0.7775	0.913	0.00E+00	1.25E-01	6.38E-03	1.18E-02	2.15E+01	2.16E+01
132	1.053095	1.002782	0.7994	0.913	0.00E+00	1.55E-01	6.38E-03	1.17E-02	2.14E+01	2.15E+01
133	1.054661	1.004348	0.8123	0.9132	0.00E+00	1.79E-01	6.37E-03	1.17E-02	2.13E+01	2.13E+01
134	1.056545	1.006232	0.8279	0.9137	0.00E+00	2.01E-01	6.36E-03	1.16E-02	2.11E+01	2.12E+01
135	1.05881	1.008497	0.8437	0.9145	0.00E+00	2.22E-01	6.34E-03	1.14E-02	2.09E+01	2.09E+01
136	1.061534	1.01122	0.8537	0.9154	0.00E+00	2.42E-01	6.32E-03	1.13E-02	2.06E+01	2.07E+01
137	1.064808	1.014494	0.8651	0.9166	0.00E+00	2.62E-01	6.28E-03	1.11E-02	2.04E+01	2.04E+01
138	1.068745	1.018431	0.874	0.9181	0.00E+00	2.81E-01	6.25E-03	1.09E-02	2.00E+01	2.01E+01
139	1.073479	1.023164	0.8832	0.9199	0.00E+00	3.02E-01	6.20E-03	1.07E-02	1.97E+01	1.97E+01
140	1.079171	1.028854	0.892	0.922	0.00E+00	3.23E-01	6.15E-03	1.04E-02	1.93E+01	1.93E+01
141	1.086014	1.035696	0.9	0.9246	0.00E+00	3.44E-01	6.09E-03	1.02E-02	1.88E+01	1.88E+01
142	1.094243	1.043922	0.9078	0.9275	0.00E+00	3.67E-01	6.01E-03	9.88E-03	1.83E+01	1.83E+01
143	1.104136	1.053813	0.9154	0.931	0.00E+00	3.90E-01	5.94E-03	9.57E-03	1.78E+01	1.78E+01
144	1.116032	1.065703	0.9227	0.9348	0.00E+00	4.14E-01	5.85E-03	9.24E-03	1.73E+01	1.73E+01
145	1.130335	1.079999	0.9297	0.939	0.00E+00	4.40E-01	5.75E-03	8.90E-03	1.67E+01	1.67E+01
146	1.147533	1.097186	0.9364	0.9435	0.00E+00	4.66E-01	5.66E-03	8.56E-03	1.61E+01	1.61E+01
147	1.168211	1.117847	0.9428	0.9483	0.00E+00	4.93E-01	5.56E-03	8.21E-03	1.56E+01	1.55E+01
148	1.193073	1.142687	0.9489	0.9532	0.00E+00	5.21E-01	5.46E-03	7.88E-03	1.50E+01	1.50E+01
149	1.222967	1.172547	0.9546	0.9581	0.00E+00	5.50E-01	5.36E-03	7.56E-03	1.45E+01	1.44E+01
150	1.25891	1.208443	0.96	0.9629	0.00E+00	5.80E-01	5.27E-03	7.25E-03	1.40E+01	1.39E+01
151	1.302127	1.251593	0.9651	0.9676	0.00E+00	6.09E-01	5.19E-03	6.96E-03	1.35E+01	1.33E+01
152	1.35409	1.303461	0.9698	0.972	0.00E+00	6.39E-01	5.11E-03	6.69E-03	1.30E+01	1.29E+01
153	1.416568	1.365805	0.9741	0.976	0.00E+00	6.69E-01	5.04E-03	6.45E-03	1.26E+01	1.24E+01
154	1.49169	1.44074	0.9779	0.9796	0.00E+00	6.98E-01	4.97E-03	6.23E-03	1.22E+01	1.20E+01
155	1.582013	1.530806	0.9815	0.983	0.00E+00	7.25E-01	4.92E-03	6.03E-03	1.18E+01	1.16E+01
156	1.690616	1.639058	0.9846	0.986	0.00E+00	7.52E-01	4.87E-03	5.85E-03	1.15E+01	1.13E+01
157	1.821196	1.769154	0.9873	0.9885	0.00E+00	7.77E-01	4.83E-03	5.69E-03	1.12E+01	1.10E+01
158	1.978201	1.925509	0.9896	0.9907	0.00E+00	8.00E-01	4.79E-03	5.55E-03	1.10E+01	1.07E+01
159	2.166978	2.113424	0.9917	0.9926	0.00E+00	8.22E-01	4.76E-03	5.42E-03	1.08E+01	1.05E+01
160	2.393958	2.339259	0.9934	0.9942	0.00E+00	8.41E-01	4.73E-03	5.31E-03	1.06E+01	1.03E+01
161	2.666872	2.610665	0.9948	0.9955	0.00E+00	8.59E-01	4.71E-03	5.22E-03	1.04E+01	1.01E+01
162	2.995014	2.936856	0.9959	0.9966	0.00E+00	8.74E-01	4.68E-03	5.13E-03	1.02E+01	9.98E+00
163	3.389561	3.328898	0.9969	0.9974	0.00E+00	8.88E-01	4.66E-03	5.06E-03	1.01E+01	9.84E+00

a=12 degree										
nx	x	xc	uei	uev	cf	uc	theta	dls	dd	db
2	0.00586	-0.032541	0.1031	0.1031	5.08E-02	0.00E+00	3.45E-05	7.66E-05	1.58E-02	1.58E-02
3	0.011396	-0.02745	0.2106	0.2106	2.68E-02	0.00E+00	3.26E-05	7.18E-05	3.02E-02	3.02E-02
4	0.016604	-0.022751	0.335	0.335	1.87E-02	0.00E+00	2.98E-05	6.53E-05	4.38E-02	4.38E-02
5	0.021481	-0.018457	0.4801	0.4801	1.45E-02	0.00E+00	2.70E-05	5.91E-05	5.67E-02	5.67E-02
6	0.026023	-0.014585	0.6503	0.6503	1.20E-02	0.00E+00	2.44E-05	5.31E-05	6.91E-02	6.91E-02
7	0.030226	-0.011156	0.8487	0.8487	1.03E-02	0.00E+00	2.20E-05	4.77E-05	8.10E-02	8.10E-02
8	0.034088	-0.008186	1.0798	1.0798	9.04E-03	0.00E+00	1.98E-05	4.28E-05	9.25E-02	9.25E-02
9	0.037607	-0.005697	1.3416	1.3416	8.07E-03	0.00E+00	1.79E-05	3.87E-05	1.04E-01	1.04E-01
10	0.040779	-0.003699	1.6293	1.6293	7.29E-03	0.00E+00	1.63E-05	3.53E-05	1.15E-01	1.15E-01
11	0.043541	-0.002218	1.9246	1.9246	6.57E-03	0.00E+00	1.52E-05	3.29E-05	1.27E-01	1.27E-01
12	0.045847	-0.001225	2.1867	2.1867	5.93E-03	0.00E+00	1.45E-05	3.17E-05	1.39E-01	1.39E-01
13	0.047734	-0.000611	2.4025	2.4025	5.42E-03	0.00E+00	1.43E-05	3.13E-05	1.50E-01	1.50E-01
14	0.049235	-0.000267	2.5703	2.5703	4.99E-03	0.00E+00	1.42E-05	3.13E-05	1.61E-01	1.61E-01
15	0.050384	-0.000098	2.6893	2.6893	4.68E-03	0.00E+00	1.43E-05	3.16E-05	1.70E-01	1.70E-01
16	0.051212	-0.000026	2.7715	2.7715	4.54E-03	0.00E+00	1.43E-05	3.17E-05	1.76E-01	1.76E-01
17	0.051706	-0.000005	2.8248	2.8248	4.24E-03	0.00E+00	1.44E-05	3.22E-05	1.82E-01	1.82E-01
18	0.051964	0	2.8424	2.8424	4.03E-03	0.00E+00	1.45E-05	3.28E-05	1.86E-01	1.86E-01
19	0.052168	0	2.855	2.855	3.95E-03	0.00E+00	1.47E-05	3.32E-05	1.90E-01	1.90E-01
20	0.052427	0.000005	2.8744	2.8636	3.70E-03	0.00E+00	1.49E-05	3.44E-05	1.97E-01	1.97E-01
21	0.052921	0.000026	2.8986	2.8865	3.53E-03	0.00E+00	1.53E-05	3.53E-05	2.04E-01	2.04E-01
22	0.053749	0.000098	2.9465	2.9322	3.43E-03	0.00E+00	1.57E-05	3.62E-05	2.12E-01	2.12E-01
23	0.054898	0.000267	3.0051	2.9904	3.23E-03	0.00E+00	1.62E-05	3.76E-05	2.25E-01	2.25E-01
24	0.056399	0.000611	3.0598	3.045	2.94E-03	0.00E+00	1.72E-05	4.00E-05	2.44E-01	2.44E-01
25	0.058285	0.001225	3.0958	3.0809	2.59E-03	0.00E+00	1.87E-05	4.37E-05	2.69E-01	2.69E-01
26	0.060592	0.002218	3.0984	3.0847	2.20E-03	0.00E+00	2.13E-05	4.98E-05	3.07E-01	3.07E-01
27	0.063353	0.003699	3.0527	3.0409	1.94E-03	0.00E+00	2.57E-05	5.85E-05	3.56E-01	3.56E-01
28	0.066526	0.005697	2.9749	2.9622	1.91E-03	0.00E+00	3.11E-05	6.78E-05	4.02E-01	4.02E-01
29	0.070044	0.008186	2.8794	2.8666	2.04E-03	0.00E+00	3.90E-05	7.94E-05	4.55E-01	4.55E-01
30	0.073907	0.011156	2.7756	2.7628	2.27E-03	0.00E+00	4.95E-05	9.38E-05	5.18E-01	5.18E-01
31	0.07811	0.014585	2.6726	2.6601	2.52E-03	0.00E+00	6.27E-05	1.12E-04	5.94E-01	5.94E-01
32	0.082652	0.018457	2.5747	2.563	2.73E-03	0.00E+00	7.84E-05	1.33E-04	6.84E-01	6.84E-01
33	0.087529	0.022751	2.484	2.4735	2.86E-03	0.00E+00	9.65E-05	1.59E-04	7.88E-01	7.88E-01
34	0.092736	0.02745	2.4014	2.3913	2.90E-03	0.00E+00	1.15E-04	1.88E-04	8.97E-01	8.97E-01
35	0.098273	0.032541	2.326	2.3171	2.84E-03	0.00E+00	1.37E-04	2.20E-04	1.02E+00	1.02E+00
36	0.104133	0.038009	2.2579	2.2496	2.77E-03	0.00E+00	1.60E-04	2.55E-04	1.15E+00	1.15E+00
37	0.110312	0.043844	2.1961	2.1885	2.72E-03	0.00E+00	1.86E-04	2.93E-04	1.28E+00	1.28E+00
38	0.116806	0.050033	2.1403	2.1332	2.67E-03	0.00E+00	2.13E-04	3.33E-04	1.42E+00	1.42E+00
39	0.123612	0.056571	2.0891	2.0825	2.62E-03	0.00E+00	2.41E-04	3.75E-04	1.56E+00	1.56E+00
40	0.130724	0.063446	2.0415	2.0354	2.56E-03	0.00E+00	2.72E-04	4.20E-04	1.71E+00	1.71E+00
41	0.138136	0.070651	1.9979	1.9923	2.52E-03	0.00E+00	3.03E-04	4.67E-04	1.86E+00	1.86E+00
42	0.145846	0.078176	1.958	1.9528	2.48E-03	0.00E+00	3.36E-04	5.15E-04	2.01E+00	2.01E+00
43	0.153846	0.086014	1.9216	1.9165	2.45E-03	0.00E+00	3.69E-04	5.65E-04	2.16E+00	2.16E+00
44	0.16213	0.094157	1.8876	1.8826	2.42E-03	0.00E+00	4.04E-04	6.16E-04	2.32E+00	2.32E+00
45	0.170695	0.102597	1.8557	1.8512	2.37E-03	0.00E+00	4.39E-04	6.70E-04	2.48E+00	2.48E+00
46	0.179533	0.111328	1.8251	1.8209	2.33E-03	0.00E+00	4.76E-04	7.25E-04	2.64E+00	2.64E+00
47	0.188639	0.120341	1.7971	1.7927	2.31E-03	0.00E+00	5.13E-04	7.81E-04	2.80E+00	2.80E+00
48	0.198006	0.129628	1.7708	1.7664	2.28E-03	0.00E+00	5.51E-04	8.38E-04	2.96E+00	2.96E+00
49	0.207627	0.139181	1.7453	1.7411	2.24E-03	0.00E+00	5.92E-04	8.98E-04	3.13E+00	3.13E+00
50	0.217497	0.148995	1.721	1.7173	2.21E-03	0.00E+00	6.33E-04	9.61E-04	3.30E+00	3.30E+00
51	0.227608	0.159058	1.698	1.6942	2.19E-03	0.00E+00	6.76E-04	1.02E-03	3.47E+00	3.47E+00
52	0.237953	0.169364	1.676	1.6725	2.16E-03	0.00E+00	7.19E-04	1.09E-03	3.64E+00	3.64E+00
53	0.248527	0.179905	1.6553	1.6517	2.14E-03	0.00E+00	7.62E-04	1.15E-03	3.81E+00	3.81E+00
54	0.259319	0.190672	1.6359	1.6321	2.12E-03	0.00E+00	8.07E-04	1.22E-03	3.98E+00	3.98E+00
55	0.270324	0.201657	1.6168	1.6131	2.09E-03	0.00E+00	8.56E-04	1.29E-03	4.16E+00	4.16E+00
56	0.281534	0.212851	1.5981	1.5948	2.07E-03	0.00E+00	9.03E-04	1.36E-03	4.34E+00	4.34E+00
57	0.292942	0.224248	1.5803	1.5769	2.04E-03	0.00E+00	9.54E-04	1.43E-03	4.52E+00	4.52E+00
58	0.304538	0.235836	1.5631	1.56	2.02E-03	0.00E+00	1.00E-03	1.51E-03	4.71E+00	4.71E+00
59	0.316316	0.247608	1.5469	1.5435	2.01E-03	0.00E+00	1.05E-03	1.58E-03	4.89E+00	4.89E+00

60	0.328268	0.259557	1.5311	1.5277	2.00E-03	0.00E+00	1.11E-03	1.66E-03	5.07E+00	5.07E+00
61	0.340384	0.271671	1.5155	1.5122	1.97E-03	0.00E+00	1.16E-03	1.74E-03	5.26E+00	5.26E+00
62	0.352656	0.283943	1.5003	1.4972	1.95E-03	0.00E+00	1.22E-03	1.82E-03	5.45E+00	5.45E+00
63	0.365077	0.296364	1.4856	1.4824	1.93E-03	0.00E+00	1.27E-03	1.90E-03	5.65E+00	5.65E+00
64	0.377638	0.308924	1.4714	1.4682	1.92E-03	0.00E+00	1.33E-03	1.99E-03	5.84E+00	5.84E+00
65	0.39033	0.321616	1.4575	1.4545	1.91E-03	0.00E+00	1.39E-03	2.08E-03	6.04E+00	6.04E+00
66	0.403143	0.334428	1.4443	1.4414	1.89E-03	0.00E+00	1.45E-03	2.17E-03	6.24E+00	6.24E+00
67	0.41607	0.347353	1.4314	1.4283	1.87E-03	0.00E+00	1.51E-03	2.25E-03	6.44E+00	6.44E+00
68	0.429102	0.360382	1.4186	1.4154	1.85E-03	0.00E+00	1.57E-03	2.35E-03	6.64E+00	6.64E+00
69	0.442229	0.373504	1.4061	1.4029	1.83E-03	0.00E+00	1.63E-03	2.44E-03	6.84E+00	6.84E+00
70	0.455442	0.386712	1.3938	1.3905	1.81E-03	0.00E+00	1.69E-03	2.53E-03	7.05E+00	7.05E+00
71	0.468733	0.399994	1.3817	1.3785	1.79E-03	0.00E+00	1.76E-03	2.63E-03	7.26E+00	7.26E+00
72	0.482092	0.413343	1.3701	1.3669	1.78E-03	0.00E+00	1.82E-03	2.73E-03	7.47E+00	7.48E+00
73	0.49551	0.426748	1.359	1.3557	1.76E-03	0.00E+00	1.89E-03	2.84E-03	7.69E+00	7.69E+00
74	0.508977	0.440201	1.348	1.3447	1.74E-03	0.00E+00	1.96E-03	2.94E-03	7.91E+00	7.91E+00
75	0.522485	0.453692	1.337	1.3338	1.72E-03	0.00E+00	2.04E-03	3.05E-03	8.14E+00	8.14E+00
76	0.536024	0.467211	1.3263	1.3233	1.70E-03	0.00E+00	2.11E-03	3.16E-03	8.37E+00	8.37E+00
77	0.549584	0.480749	1.3158	1.3128	1.68E-03	0.00E+00	2.18E-03	3.27E-03	8.59E+00	8.60E+00
78	0.563158	0.494298	1.3057	1.3025	1.67E-03	0.00E+00	2.25E-03	3.39E-03	8.82E+00	8.82E+00
79	0.576734	0.507847	1.2958	1.2925	1.65E-03	0.00E+00	2.32E-03	3.50E-03	9.05E+00	9.05E+00
80	0.590304	0.521388	1.2861	1.2826	1.63E-03	0.00E+00	2.40E-03	3.62E-03	9.28E+00	9.28E+00
81	0.603858	0.534909	1.2768	1.2731	1.61E-03	0.00E+00	2.47E-03	3.73E-03	9.51E+00	9.51E+00
82	0.617388	0.548405	1.2674	1.2636	1.59E-03	0.00E+00	2.55E-03	3.86E-03	9.75E+00	9.75E+00
83	0.630883	0.561863	1.2582	1.2542	1.57E-03	0.00E+00	2.63E-03	3.98E-03	9.99E+00	9.99E+00
84	0.644334	0.575274	1.249	1.245	1.55E-03	0.00E+00	2.71E-03	4.11E-03	1.02E+01	1.02E+01
85	0.657732	0.58863	1.2399	1.2359	1.53E-03	0.00E+00	2.79E-03	4.25E-03	1.05E+01	1.05E+01
86	0.671069	0.601923	1.2313	1.2272	1.51E-03	0.00E+00	2.88E-03	4.38E-03	1.08E+01	1.08E+01
87	0.684334	0.615142	1.2228	1.2186	1.49E-03	0.00E+00	2.97E-03	4.52E-03	1.10E+01	1.10E+01
88	0.697518	0.628278	1.2145	1.2102	1.47E-03	0.00E+00	3.06E-03	4.67E-03	1.13E+01	1.13E+01
89	0.710613	0.641324	1.2061	1.2019	1.45E-03	0.00E+00	3.14E-03	4.81E-03	1.16E+01	1.16E+01
90	0.72361	0.654268	1.198	1.1936	1.42E-03	0.00E+00	3.23E-03	4.96E-03	1.18E+01	1.18E+01
91	0.736498	0.667103	1.1904	1.1854	1.39E-03	0.00E+00	3.32E-03	5.11E-03	1.21E+01	1.21E+01
92	0.749271	0.67982	1.1829	1.1773	1.37E-03	0.00E+00	3.41E-03	5.26E-03	1.24E+01	1.24E+01
93	0.761918	0.69241	1.1748	1.1691	1.34E-03	0.00E+00	3.51E-03	5.43E-03	1.27E+01	1.27E+01
94	0.774431	0.704862	1.1665	1.1608	1.31E-03	0.00E+00	3.60E-03	5.60E-03	1.30E+01	1.30E+01
95	0.786801	0.717172	1.159	1.1528	1.29E-03	0.00E+00	3.71E-03	5.78E-03	1.33E+01	1.33E+01
96	0.799021	0.72933	1.152	1.1451	1.26E-03	0.00E+00	3.81E-03	5.95E-03	1.36E+01	1.36E+01
97	0.811081	0.741325	1.1447	1.1372	1.23E-03	0.00E+00	3.91E-03	6.14E-03	1.40E+01	1.40E+01
98	0.822973	0.753151	1.1367	1.1292	1.19E-03	0.00E+00	4.03E-03	6.35E-03	1.43E+01	1.43E+01
99	0.834689	0.764799	1.1287	1.1211	1.15E-03	0.00E+00	4.14E-03	6.57E-03	1.47E+01	1.47E+01
100	0.846221	0.776261	1.1204	1.1129	1.12E-03	0.00E+00	4.27E-03	6.80E-03	1.51E+01	1.51E+01
101	0.857561	0.78753	1.1122	1.1049	1.09E-03	0.00E+00	4.40E-03	7.04E-03	1.56E+01	1.56E+01
102	0.868701	0.798598	1.1042	1.0969	1.06E-03	0.00E+00	4.52E-03	7.29E-03	1.60E+01	1.60E+01
103	0.879634	0.809458	1.0965	1.0889	1.03E-03	0.00E+00	4.65E-03	7.55E-03	1.65E+01	1.65E+01
104	0.890351	0.820104	1.0889	1.081	9.98E-04	0.00E+00	4.78E-03	7.83E-03	1.69E+01	1.69E+01
105	0.900846	0.830526	1.0811	1.0731	9.62E-04	0.00E+00	4.92E-03	8.11E-03	1.74E+01	1.74E+01
106	0.911111	0.840717	1.0733	1.0653	9.25E-04	0.00E+00	5.06E-03	8.42E-03	1.79E+01	1.79E+01
107	0.921139	0.850672	1.0653	1.0575	8.85E-04	0.00E+00	5.20E-03	8.74E-03	1.85E+01	1.85E+01
108	0.930923	0.860383	1.0571	1.0498	8.45E-04	0.00E+00	5.34E-03	9.08E-03	1.91E+01	1.91E+01
109	0.940458	0.869844	1.0492	1.0422	8.03E-04	0.00E+00	5.49E-03	9.44E-03	1.97E+01	1.97E+01
110	0.949735	0.879049	1.0413	1.0348	7.60E-04	0.00E+00	5.64E-03	9.81E-03	2.03E+01	2.03E+01
111	0.958749	0.887991	1.0333	1.0276	7.15E-04	0.00E+00	5.80E-03	1.02E-02	2.10E+01	2.10E+01
112	0.967493	0.896665	1.0249	1.0205	6.68E-04	0.00E+00	5.95E-03	1.06E-02	2.17E+01	2.17E+01
113	0.975961	0.905062	1.0166	1.0137	6.22E-04	0.00E+00	6.11E-03	1.10E-02	2.24E+01	2.24E+01
114	0.984148	0.91318	1.0083	1.007	5.77E-04	0.00E+00	6.27E-03	1.15E-02	2.31E+01	2.32E+01
115	0.992048	0.921013	0.9997	1.0007	5.30E-04	0.00E+00	6.43E-03	1.20E-02	2.39E+01	2.39E+01
116	0.999655	0.928553	0.9906	0.9945	4.84E-04	0.00E+00	6.58E-03	1.24E-02	2.47E+01	2.48E+01
117	1.006965	0.935796	0.9813	0.9887	4.40E-04	0.00E+00	6.74E-03	1.29E-02	2.56E+01	2.56E+01
118	1.013971	0.942739	0.9722	0.9833	3.98E-04	0.00E+00	6.89E-03	1.34E-02	2.64E+01	2.64E+01
119	1.02067	0.949377	0.9631	0.9781	3.62E-04	0.00E+00	7.06E-03	1.39E-02	2.73E+01	2.73E+01

120	1.027056	0.955704	0.953	0.9736	3.28E-04	0.00E+00	7.21E-03	1.45E-02	2.82E+01	2.82E+01
121	1.033126	0.961716	0.9419	0.9692	2.89E-04	0.00E+00	7.35E-03	1.50E-02	2.91E+01	2.91E+01
122	1.038875	0.967408	0.9306	0.965	2.50E-04	0.00E+00	7.48E-03	1.55E-02	2.99E+01	3.00E+01
123	1.044299	0.97278	0.9186	0.9612	2.17E-04	0.00E+00	7.62E-03	1.60E-02	3.08E+01	3.09E+01
124	1.049224	0.977655	0.9059	0.9579	1.90E-04	0.00E+00	7.74E-03	1.65E-02	3.16E+01	3.17E+01
125	1.053503	0.981892	0.8932	0.9552	1.68E-04	0.00E+00	7.85E-03	1.70E-02	3.24E+01	3.24E+01
126	1.057189	0.985541	0.8805	0.9528	1.49E-04	0.00E+00	7.94E-03	1.73E-02	3.30E+01	3.31E+01
127	1.060342	0.988662	0.8677	0.9509	1.33E-04	0.00E+00	8.01E-03	1.77E-02	3.36E+01	3.37E+01
128	1.063022	0.991315	0.854	0.9493	1.20E-04	0.00E+00	8.08E-03	1.80E-02	3.41E+01	3.42E+01
129	1.06529	0.993559	0.8383	0.9479	1.11E-04	0.00E+00	8.14E-03	1.82E-02	3.46E+01	3.46E+01
130	1.067202	0.995451	0.8211	0.9468	1.03E-04	0.00E+00	8.18E-03	1.84E-02	3.49E+01	3.50E+01
131	1.068811	0.997043	0.8017	0.9459	9.87E-05	0.00E+00	8.22E-03	1.86E-02	3.52E+01	3.53E+01
132	1.070161	0.998379	0.7714	0.9452	1.03E-04	0.00E+00	8.25E-03	1.88E-02	3.55E+01	3.56E+01
133	1.071287	0.999494	0.7532	0.9447	1.15E-04	0.00E+00	8.27E-03	1.89E-02	3.56E+01	3.57E+01
134	1.072189	1.000395	0.7533	0.9441	0.00E+00	4.29E-02	8.29E-03	1.89E-02	3.57E+01	3.57E+01
135	1.073272	1.001479	0.7681	0.9438	0.00E+00	6.33E-02	8.31E-03	1.89E-02	3.56E+01	3.57E+01
136	1.074575	1.002782	0.7896	0.9434	0.00E+00	8.03E-02	8.32E-03	1.89E-02	3.56E+01	3.57E+01
137	1.076142	1.004348	0.8024	0.9431	0.00E+00	9.51E-02	8.33E-03	1.88E-02	3.55E+01	3.55E+01
138	1.078026	1.006232	0.8178	0.9429	0.00E+00	1.09E-01	8.34E-03	1.87E-02	3.53E+01	3.54E+01
139	1.080291	1.008497	0.8335	0.9427	0.00E+00	1.23E-01	8.35E-03	1.86E-02	3.51E+01	3.52E+01
140	1.083014	1.011219	0.8434	0.9425	0.00E+00	1.37E-01	8.36E-03	1.85E-02	3.49E+01	3.49E+01
141	1.086289	1.014493	0.8547	0.9423	0.00E+00	1.51E-01	8.36E-03	1.83E-02	3.46E+01	3.46E+01
142	1.090226	1.018429	0.8635	0.9422	0.00E+00	1.66E-01	8.37E-03	1.82E-02	3.42E+01	3.43E+01
143	1.094959	1.023161	0.8727	0.9421	0.00E+00	1.81E-01	8.37E-03	1.79E-02	3.38E+01	3.39E+01
144	1.100651	1.028851	0.8815	0.9421	0.00E+00	1.97E-01	8.37E-03	1.77E-02	3.33E+01	3.34E+01
145	1.107495	1.035691	0.8894	0.9422	0.00E+00	2.14E-01	8.37E-03	1.74E-02	3.28E+01	3.28E+01
146	1.115723	1.043914	0.8973	0.9425	0.00E+00	2.32E-01	8.36E-03	1.70E-02	3.21E+01	3.22E+01
147	1.125617	1.0538	0.905	0.9429	0.00E+00	2.51E-01	8.35E-03	1.66E-02	3.14E+01	3.14E+01
148	1.137513	1.065684	0.9124	0.9436	0.00E+00	2.73E-01	8.32E-03	1.62E-02	3.05E+01	3.06E+01
149	1.151816	1.07997	0.9195	0.9445	0.00E+00	2.96E-01	8.29E-03	1.57E-02	2.96E+01	2.96E+01
150	1.169014	1.097143	0.9263	0.9459	0.00E+00	3.21E-01	8.24E-03	1.51E-02	2.86E+01	2.86E+01
151	1.189691	1.117785	0.9329	0.9477	0.00E+00	3.50E-01	8.19E-03	1.45E-02	2.75E+01	2.75E+01
152	1.214554	1.142595	0.9392	0.95	0.00E+00	3.80E-01	8.11E-03	1.39E-02	2.64E+01	2.64E+01
153	1.244447	1.172413	0.9453	0.9528	0.00E+00	4.14E-01	8.02E-03	1.32E-02	2.52E+01	2.52E+01
154	1.28039	1.20825	0.9511	0.9562	0.00E+00	4.49E-01	7.92E-03	1.25E-02	2.40E+01	2.40E+01
155	1.323607	1.251315	0.9566	0.9599	0.00E+00	4.87E-01	7.81E-03	1.19E-02	2.28E+01	2.28E+01
156	1.37557	1.303064	0.9618	0.964	0.00E+00	5.25E-01	7.69E-03	1.13E-02	2.17E+01	2.17E+01
157	1.438048	1.365238	0.9666	0.968	0.00E+00	5.64E-01	7.58E-03	1.07E-02	2.07E+01	2.07E+01
158	1.513169	1.439937	0.971	0.9721	0.00E+00	6.02E-01	7.46E-03	1.02E-02	1.98E+01	1.98E+01
159	1.603492	1.52968	0.9752	0.976	0.00E+00	6.40E-01	7.36E-03	9.71E-03	1.90E+01	1.90E+01
160	1.712094	1.63749	0.979	0.9797	0.00E+00	6.76E-01	7.26E-03	9.30E-03	1.82E+01	1.82E+01
161	1.842674	1.766978	0.9823	0.983	0.00E+00	7.10E-01	7.18E-03	8.93E-03	1.76E+01	1.76E+01
162	1.999678	1.922518	0.9853	0.986	0.00E+00	7.41E-01	7.10E-03	8.62E-03	1.70E+01	1.70E+01
163	2.188454	2.109349	0.9879	0.9886	0.00E+00	7.70E-01	7.03E-03	8.34E-03	1.65E+01	1.65E+01
164	2.415433	2.333752	0.9902	0.9908	0.00E+00	7.96E-01	6.96E-03	8.10E-03	1.60E+01	1.60E+01
165	2.688345	2.603269	0.9921	0.9927	0.00E+00	8.19E-01	6.90E-03	7.89E-03	1.57E+01	1.57E+01
166	3.016485	2.927019	0.9937	0.9943	0.00E+00	8.40E-01	6.83E-03	7.69E-03	1.53E+01	1.53E+01
167	3.411031	3.31593	0.9951	0.9955	0.00E+00	8.58E-01	6.76E-03	7.51E-03	1.50E+01	1.50E+01

a=14 degree											
nx	x	xc	uei	uev	cf	uc	theta	dls	dd	db	
2	0.006494	-0.043844	0.109	0.109	4.26E-02	0.00E+00	3.80E-05	8.50E-05	1.85E-02	1.85E-02	
3	0.012674	-0.038009	0.2022	0.2022	2.44E-02	0.00E+00	3.74E-05	8.25E-05	3.34E-02	3.34E-02	
4	0.018534	-0.032541	0.3083	0.3083	1.76E-02	0.00E+00	3.43E-05	7.52E-05	4.64E-02	4.64E-02	
5	0.02407	-0.02745	0.4306	0.4306	1.39E-02	0.00E+00	3.15E-05	6.88E-05	5.93E-02	5.93E-02	
6	0.029277	-0.022751	0.5719	0.5719	1.16E-02	0.00E+00	2.87E-05	6.25E-05	7.15E-02	7.15E-02	
7	0.034154	-0.018457	0.7363	0.7363	9.98E-03	0.00E+00	2.60E-05	5.66E-05	8.33E-02	8.33E-02	
8	0.038696	-0.014585	0.9283	0.9283	8.85E-03	0.00E+00	2.35E-05	5.09E-05	9.46E-02	9.46E-02	
9	0.0429	-0.011156	1.1514	1.1514	7.98E-03	0.00E+00	2.12E-05	4.58E-05	1.05E-01	1.05E-01	
10	0.046762	-0.008186	1.4098	1.4098	7.27E-03	0.00E+00	1.91E-05	4.11E-05	1.16E-01	1.16E-01	
11	0.050281	-0.005697	1.7007	1.7007	6.67E-03	0.00E+00	1.72E-05	3.72E-05	1.26E-01	1.26E-01	
12	0.053453	-0.003699	2.018	2.018	6.14E-03	0.00E+00	1.58E-05	3.40E-05	1.37E-01	1.37E-01	
13	0.056214	-0.002218	2.3409	2.3409	5.62E-03	0.00E+00	1.47E-05	3.18E-05	1.49E-01	1.49E-01	
14	0.058521	-0.001225	2.6234	2.6234	5.12E-03	0.00E+00	1.41E-05	3.07E-05	1.61E-01	1.61E-01	
15	0.060407	-0.000611	2.8529	2.8529	4.70E-03	0.00E+00	1.39E-05	3.04E-05	1.73E-01	1.73E-01	
16	0.061908	-0.000267	3.0289	3.0289	4.34E-03	0.00E+00	1.38E-05	3.05E-05	1.85E-01	1.85E-01	
17	0.063057	-0.000098	3.1519	3.1519	4.07E-03	0.00E+00	1.39E-05	3.09E-05	1.95E-01	1.95E-01	
18	0.063885	-0.000026	3.2362	3.2362	3.96E-03	0.00E+00	1.40E-05	3.10E-05	2.01E-01	2.01E-01	
19	0.064379	-0.000005	3.2913	3.2913	3.70E-03	0.00E+00	1.41E-05	3.15E-05	2.08E-01	2.08E-01	
20	0.064638	0	3.3086	3.3086	3.51E-03	0.00E+00	1.42E-05	3.21E-05	2.13E-01	2.13E-01	
21	0.064842	0	3.321	3.3113	3.23E-03	0.00E+00	1.45E-05	3.34E-05	2.21E-01	2.21E-01	
22	0.0651	0.000005	3.3405	3.3239	3.13E-03	0.00E+00	1.47E-05	3.38E-05	2.25E-01	2.25E-01	
23	0.065594	0.000026	3.3623	3.3462	3.08E-03	0.00E+00	1.50E-05	3.48E-05	2.33E-01	2.33E-01	
24	0.066422	0.000098	3.4072	3.3891	2.98E-03	0.00E+00	1.54E-05	3.57E-05	2.42E-01	2.42E-01	
25	0.067572	0.000267	3.4604	3.4414	2.80E-03	0.00E+00	1.60E-05	3.72E-05	2.56E-01	2.56E-01	
26	0.069073	0.000611	3.5052	3.4857	2.53E-03	0.00E+00	1.70E-05	3.97E-05	2.77E-01	2.77E-01	
27	0.070959	0.001225	3.5255	3.5071	2.18E-03	0.00E+00	1.87E-05	4.41E-05	3.10E-01	3.10E-01	
28	0.073266	0.002218	3.5056	3.4878	1.85E-03	0.00E+00	2.16E-05	5.05E-05	3.52E-01	3.52E-01	
29	0.076027	0.003699	3.4304	3.4143	1.63E-03	0.00E+00	2.62E-05	5.98E-05	4.09E-01	4.09E-01	
30	0.079199	0.005697	3.3213	3.3054	1.60E-03	0.00E+00	3.29E-05	7.10E-05	4.70E-01	4.70E-01	
31	0.082718	0.008186	3.1954	3.1794	1.73E-03	0.00E+00	4.18E-05	8.44E-05	5.37E-01	5.37E-01	
32	0.08658	0.011156	3.0631	3.0473	1.93E-03	0.00E+00	5.34E-05	1.01E-04	6.16E-01	6.16E-01	
33	0.090784	0.014585	2.9347	2.9195	2.16E-03	0.00E+00	6.76E-05	1.21E-04	7.08E-01	7.08E-01	
34	0.095325	0.018457	2.8142	2.7998	2.35E-03	0.00E+00	8.46E-05	1.45E-04	8.14E-01	8.14E-01	
35	0.100202	0.022751	2.7038	2.6906	2.50E-03	0.00E+00	1.04E-04	1.74E-04	9.35E-01	9.35E-01	
36	0.10541	0.02745	2.6038	2.5908	2.57E-03	0.00E+00	1.24E-04	2.05E-04	1.06E+00	1.06E+00	
37	0.110946	0.032541	2.5133	2.5017	2.54E-03	0.00E+00	1.48E-04	2.41E-04	1.20E+00	1.20E+00	
38	0.116806	0.038009	2.4318	2.421	2.48E-03	0.00E+00	1.74E-04	2.80E-04	1.35E+00	1.35E+00	
39	0.122986	0.043844	2.3582	2.3479	2.44E-03	0.00E+00	2.02E-04	3.21E-04	1.51E+00	1.51E+00	
40	0.12948	0.050033	2.2917	2.282	2.41E-03	0.00E+00	2.32E-04	3.66E-04	1.67E+00	1.67E+00	
41	0.136285	0.056571	2.231	2.2218	2.36E-03	0.00E+00	2.64E-04	4.14E-04	1.84E+00	1.84E+00	
42	0.143397	0.063446	2.1748	2.1665	2.31E-03	0.00E+00	2.97E-04	4.65E-04	2.02E+00	2.02E+00	
43	0.15081	0.070651	2.1234	2.1156	2.27E-03	0.00E+00	3.33E-04	5.19E-04	2.20E+00	2.20E+00	
44	0.158519	0.078176	2.0765	2.0691	2.23E-03	0.00E+00	3.70E-04	5.74E-04	2.38E+00	2.38E+00	
45	0.166519	0.086014	2.0337	2.0266	2.20E-03	0.00E+00	4.08E-04	6.32E-04	2.56E+00	2.56E+00	
46	0.174804	0.094157	1.9938	1.9869	2.16E-03	0.00E+00	4.47E-04	6.92E-04	2.75E+00	2.75E+00	
47	0.183368	0.102597	1.9564	1.9497	2.13E-03	0.00E+00	4.89E-04	7.53E-04	2.94E+00	2.94E+00	
48	0.192207	0.111328	1.9207	1.9145	2.10E-03	0.00E+00	5.31E-04	8.19E-04	3.13E+00	3.13E+00	
49	0.201312	0.120341	1.8881	1.8817	2.08E-03	0.00E+00	5.73E-04	8.83E-04	3.32E+00	3.32E+00	
50	0.210679	0.129628	1.8574	1.8511	2.05E-03	0.00E+00	6.19E-04	9.51E-04	3.52E+00	3.52E+00	
51	0.220301	0.139181	1.8278	1.8219	2.00E-03	0.00E+00	6.65E-04	1.02E-03	3.73E+00	3.72E+00	
52	0.230171	0.148995	1.7996	1.7938	1.97E-03	0.00E+00	7.13E-04	1.10E-03	3.93E+00	3.93E+00	
53	0.240282	0.159058	1.773	1.7672	1.95E-03	0.00E+00	7.62E-04	1.17E-03	4.14E+00	4.13E+00	
54	0.250627	0.169364	1.7476	1.7419	1.94E-03	0.00E+00	8.12E-04	1.25E-03	4.34E+00	4.35E+00	
55	0.2612	0.179905	1.7238	1.7183	1.92E-03	0.00E+00	8.65E-04	1.33E-03	4.55E+00	4.56E+00	
56	0.271993	0.190672	1.7014	1.6959	1.89E-03	0.00E+00	9.17E-04	1.41E-03	4.77E+00	4.76E+00	
57	0.282998	0.201657	1.6793	1.6737	1.87E-03	0.00E+00	9.72E-04	1.49E-03	4.98E+00	4.98E+00	
58	0.294208	0.212851	1.658	1.6526	1.85E-03	0.00E+00	1.03E-03	1.57E-03	5.20E+00	5.20E+00	
59	0.305615	0.224248	1.6375	1.6324	1.83E-03	0.00E+00	1.09E-03	1.66E-03	5.43E+00	5.42E+00	

60	0.317212	0.235836	1.618	1.6127	1.81E-03	0.00E+00	1.15E-03	1.75E-03	5.65E+00	5.65E+00
61	0.32899	0.247608	1.5994	1.5941	1.79E-03	0.00E+00	1.21E-03	1.84E-03	5.88E+00	5.88E+00
62	0.340941	0.259557	1.5814	1.5762	1.76E-03	0.00E+00	1.27E-03	1.94E-03	6.11E+00	6.11E+00
63	0.353057	0.271671	1.5636	1.5584	1.74E-03	0.00E+00	1.33E-03	2.04E-03	6.34E+00	6.34E+00
64	0.36533	0.283943	1.5464	1.5411	1.72E-03	0.00E+00	1.40E-03	2.13E-03	6.58E+00	6.58E+00
65	0.377751	0.296364	1.5298	1.5243	1.70E-03	0.00E+00	1.46E-03	2.24E-03	6.82E+00	6.82E+00
66	0.390312	0.308924	1.5137	1.508	1.68E-03	0.00E+00	1.53E-03	2.34E-03	7.06E+00	7.06E+00
67	0.403003	0.321616	1.498	1.4924	1.66E-03	0.00E+00	1.60E-03	2.45E-03	7.30E+00	7.32E+00
68	0.415817	0.334428	1.4832	1.4774	1.65E-03	0.00E+00	1.67E-03	2.56E-03	7.55E+00	7.57E+00
69	0.428744	0.347353	1.4686	1.4628	1.63E-03	0.00E+00	1.74E-03	2.67E-03	7.81E+00	7.82E+00
70	0.441775	0.360382	1.4541	1.4486	1.61E-03	0.00E+00	1.82E-03	2.79E-03	8.07E+00	8.08E+00
71	0.454902	0.373504	1.4401	1.4348	1.58E-03	0.00E+00	1.89E-03	2.91E-03	8.34E+00	8.34E+00
72	0.468116	0.386712	1.4263	1.421	1.56E-03	0.00E+00	1.97E-03	3.03E-03	8.61E+00	8.61E+00
73	0.481407	0.399994	1.4128	1.4073	1.54E-03	0.00E+00	2.05E-03	3.15E-03	8.88E+00	8.88E+00
74	0.494765	0.413343	1.4	1.3943	1.52E-03	0.00E+00	2.13E-03	3.28E-03	9.15E+00	9.15E+00
75	0.508183	0.426748	1.3876	1.3817	1.50E-03	0.00E+00	2.21E-03	3.41E-03	9.42E+00	9.42E+00
76	0.521651	0.440201	1.3753	1.3693	1.48E-03	0.00E+00	2.29E-03	3.54E-03	9.71E+00	9.71E+00
77	0.535159	0.453692	1.3629	1.3571	1.46E-03	0.00E+00	2.38E-03	3.68E-03	1.00E+01	1.00E+01
78	0.548697	0.467211	1.3511	1.3452	1.44E-03	0.00E+00	2.47E-03	3.83E-03	1.03E+01	1.03E+01
79	0.562258	0.480749	1.3395	1.3337	1.42E-03	0.00E+00	2.56E-03	3.97E-03	1.06E+01	1.06E+01
80	0.575831	0.494298	1.3284	1.3225	1.40E-03	0.00E+00	2.65E-03	4.12E-03	1.09E+01	1.09E+01
81	0.589408	0.507847	1.3174	1.3114	1.38E-03	0.00E+00	2.74E-03	4.27E-03	1.12E+01	1.12E+01
82	0.602978	0.521388	1.3067	1.3005	1.35E-03	0.00E+00	2.83E-03	4.43E-03	1.15E+01	1.15E+01
83	0.616532	0.534909	1.2965	1.2899	1.33E-03	0.00E+00	2.92E-03	4.58E-03	1.18E+01	1.18E+01
84	0.630061	0.548405	1.2861	1.2793	1.30E-03	0.00E+00	3.02E-03	4.75E-03	1.21E+01	1.21E+01
85	0.643556	0.561863	1.2761	1.2689	1.28E-03	0.00E+00	3.12E-03	4.92E-03	1.25E+01	1.25E+01
86	0.657007	0.575274	1.2658	1.2586	1.25E-03	0.00E+00	3.22E-03	5.09E-03	1.28E+01	1.28E+01
87	0.670406	0.58863	1.2559	1.2485	1.23E-03	0.00E+00	3.32E-03	5.27E-03	1.32E+01	1.32E+01
88	0.683742	0.601923	1.2466	1.2387	1.21E-03	0.00E+00	3.43E-03	5.46E-03	1.35E+01	1.35E+01
89	0.697007	0.615142	1.2374	1.2292	1.19E-03	0.00E+00	3.54E-03	5.65E-03	1.39E+01	1.39E+01
90	0.710192	0.628278	1.2283	1.2199	1.17E-03	0.00E+00	3.66E-03	5.84E-03	1.43E+01	1.42E+01
91	0.723287	0.641324	1.2191	1.2106	1.15E-03	0.00E+00	3.78E-03	6.05E-03	1.46E+01	1.46E+01
92	0.736283	0.654268	1.2104	1.2017	1.13E-03	0.00E+00	3.89E-03	6.26E-03	1.50E+01	1.50E+01
93	0.749172	0.667103	1.2024	1.1926	1.11E-03	0.00E+00	4.01E-03	6.48E-03	1.54E+01	1.54E+01
94	0.761944	0.67982	1.194	1.1835	1.09E-03	0.00E+00	4.13E-03	6.70E-03	1.59E+01	1.59E+01
95	0.774592	0.69241	1.185	1.1743	1.06E-03	0.00E+00	4.25E-03	6.95E-03	1.63E+01	1.63E+01
96	0.787104	0.704862	1.1759	1.1651	1.03E-03	0.00E+00	4.38E-03	7.20E-03	1.68E+01	1.68E+01
97	0.799475	0.717172	1.1684	1.1563	1.01E-03	0.00E+00	4.51E-03	7.46E-03	1.73E+01	1.73E+01
98	0.811695	0.72933	1.1609	1.1476	9.79E-04	0.00E+00	4.65E-03	7.74E-03	1.78E+01	1.78E+01
99	0.823755	0.741325	1.1525	1.1387	9.46E-04	0.00E+00	4.79E-03	8.03E-03	1.83E+01	1.83E+01
100	0.835646	0.753151	1.1438	1.1299	9.14E-04	0.00E+00	4.95E-03	8.35E-03	1.89E+01	1.89E+01
101	0.847362	0.764799	1.1351	1.1212	8.80E-04	0.00E+00	5.11E-03	8.69E-03	1.95E+01	1.95E+01
102	0.858895	0.776261	1.1262	1.1125	8.44E-04	0.00E+00	5.27E-03	9.05E-03	2.01E+01	2.02E+01
103	0.870235	0.78753	1.1174	1.104	8.04E-04	0.00E+00	5.44E-03	9.43E-03	2.08E+01	2.09E+01
104	0.881375	0.798598	1.1092	1.0955	7.62E-04	0.00E+00	5.60E-03	9.83E-03	2.15E+01	2.16E+01
105	0.892307	0.809458	1.1011	1.0872	7.20E-04	0.00E+00	5.77E-03	1.02E-02	2.23E+01	2.23E+01
106	0.903025	0.820104	1.0929	1.0791	6.77E-04	0.00E+00	5.94E-03	1.07E-02	2.30E+01	2.31E+01
107	0.913519	0.830526	1.0846	1.0712	6.34E-04	0.00E+00	6.11E-03	1.11E-02	2.39E+01	2.39E+01
108	0.923784	0.840717	1.0762	1.0635	5.89E-04	0.00E+00	6.29E-03	1.16E-02	2.47E+01	2.48E+01
109	0.933812	0.850672	1.0676	1.056	5.45E-04	0.00E+00	6.46E-03	1.21E-02	2.56E+01	2.57E+01
110	0.943597	0.860383	1.059	1.0489	5.03E-04	0.00E+00	6.64E-03	1.26E-02	2.65E+01	2.66E+01
111	0.953131	0.869844	1.0509	1.042	4.61E-04	0.00E+00	6.81E-03	1.32E-02	2.75E+01	2.76E+01
112	0.962409	0.879049	1.0427	1.0355	4.19E-04	0.00E+00	6.98E-03	1.37E-02	2.84E+01	2.86E+01
113	0.971422	0.887991	1.0341	1.0293	3.78E-04	0.00E+00	7.16E-03	1.43E-02	2.95E+01	2.96E+01
114	0.980167	0.896665	1.0251	1.0234	3.38E-04	0.00E+00	7.32E-03	1.49E-02	3.05E+01	3.06E+01
115	0.988635	0.905062	1.0166	1.0179	3.01E-04	0.00E+00	7.49E-03	1.55E-02	3.16E+01	3.17E+01
116	0.996822	0.91318	1.0081	1.0127	2.64E-04	0.00E+00	7.65E-03	1.61E-02	3.26E+01	3.27E+01
117	1.004722	0.921013	0.9989	1.0078	2.29E-04	0.00E+00	7.80E-03	1.67E-02	3.37E+01	3.38E+01
118	1.012329	0.928553	0.9891	1.0033	1.96E-04	0.00E+00	7.95E-03	1.74E-02	3.49E+01	3.49E+01
119	1.019638	0.935796	0.9795	0.9991	1.66E-04	0.00E+00	8.09E-03	1.80E-02	3.60E+01	3.60E+01

120	1.026645	0.942739	0.9708	0.9953	1.41E-04	0.00E+00	8.26E-03	1.86E-02	3.71E+01	3.71E+01
121	1.033343	0.949377	0.9612	0.9918	1.18E-04	0.00E+00	8.41E-03	1.93E-02	3.82E+01	3.82E+01
122	1.03973	0.955704	0.9498	0.9886	9.14E-05	0.00E+00	8.54E-03	1.99E-02	3.94E+01	3.94E+01
123	1.0458	0.961716	0.9383	0.9856	6.49E-05	0.00E+00	8.66E-03	2.05E-02	4.05E+01	4.05E+01
124	1.051548	0.967408	0.9272	0.9828	4.38E-05	0.00E+00	8.78E-03	2.12E-02	4.16E+01	4.16E+01
125	1.056973	0.97278	0.9145	0.9804	2.69E-05	0.00E+00	8.89E-03	2.18E-02	4.27E+01	4.26E+01
126	1.061897	0.977655	0.9017	0.9782	1.21E-05	0.00E+00	9.00E-03	2.23E-02	4.37E+01	4.36E+01
127	1.066176	0.981892	0.8887	0.9764	-2.33E-07	0.00E+00	9.08E-03	2.28E-02	4.45E+01	4.45E+01
128	1.069863	0.985541	0.8765	0.9749	-1.05E-05	0.00E+00	9.15E-03	2.32E-02	4.53E+01	4.53E+01
129	1.073015	0.988662	0.8635	0.9737	-2.01E-05	0.00E+00	9.20E-03	2.36E-02	4.60E+01	4.60E+01
130	1.075696	0.991315	0.8485	0.9726	-2.85E-05	0.00E+00	9.25E-03	2.39E-02	4.66E+01	4.66E+01
131	1.077964	0.993559	0.8311	0.9717	-3.42E-05	0.00E+00	9.28E-03	2.42E-02	4.71E+01	4.71E+01
132	1.079876	0.995451	0.8147	0.971	-3.75E-05	0.00E+00	9.31E-03	2.44E-02	4.75E+01	4.75E+01
133	1.081484	0.997043	0.7953	0.9704	-3.91E-05	0.00E+00	9.33E-03	2.46E-02	4.78E+01	4.78E+01
134	1.082834	0.998379	0.7653	0.97	-3.81E-05	0.00E+00	9.36E-03	2.48E-02	4.81E+01	4.81E+01
135	1.083961	0.999494	0.7472	0.9696	-3.38E-05	0.00E+00	9.37E-03	2.49E-02	4.82E+01	4.82E+01
136	1.084862	1.000395	0.7472	0.9692	0.00E+00	1.08E-02	9.39E-03	2.49E-02	4.83E+01	4.83E+01
137	1.085946	1.001479	0.7619	0.9688	0.00E+00	2.23E-02	9.41E-03	2.49E-02	4.83E+01	4.83E+01
138	1.087249	1.002782	0.7833	0.9684	0.00E+00	3.27E-02	9.43E-03	2.49E-02	4.83E+01	4.83E+01
139	1.088816	1.004348	0.796	0.968	0.00E+00	4.26E-02	9.45E-03	2.49E-02	4.83E+01	4.83E+01
140	1.090699	1.006232	0.8113	0.9675	0.00E+00	5.25E-02	9.47E-03	2.49E-02	4.82E+01	4.82E+01
141	1.092964	1.008496	0.8269	0.967	0.00E+00	6.27E-02	9.49E-03	2.49E-02	4.81E+01	4.81E+01
142	1.095688	1.011219	0.8368	0.9664	0.00E+00	7.29E-02	9.52E-03	2.48E-02	4.79E+01	4.80E+01
143	1.098962	1.014493	0.848	0.9658	0.00E+00	8.35E-02	9.55E-03	2.47E-02	4.77E+01	4.78E+01
144	1.102899	1.018428	0.8568	0.9651	0.00E+00	9.44E-02	9.58E-03	2.46E-02	4.75E+01	4.75E+01
145	1.107633	1.02316	0.866	0.9643	0.00E+00	1.06E-01	9.62E-03	2.44E-02	4.71E+01	4.72E+01
146	1.113325	1.028848	0.8747	0.9635	0.00E+00	1.18E-01	9.65E-03	2.42E-02	4.67E+01	4.68E+01
147	1.120168	1.035687	0.8826	0.9625	0.00E+00	1.31E-01	9.70E-03	2.40E-02	4.62E+01	4.63E+01
148	1.128397	1.043908	0.8905	0.9616	0.00E+00	1.45E-01	9.74E-03	2.37E-02	4.55E+01	4.56E+01
149	1.138291	1.05379	0.8982	0.9605	0.00E+00	1.61E-01	9.79E-03	2.33E-02	4.47E+01	4.48E+01
150	1.150186	1.06567	0.9057	0.9594	0.00E+00	1.79E-01	9.84E-03	2.28E-02	4.37E+01	4.38E+01
151	1.164489	1.079949	0.9129	0.9583	0.00E+00	1.98E-01	9.89E-03	2.22E-02	4.26E+01	4.27E+01
152	1.181687	1.097113	0.9199	0.9573	0.00E+00	2.21E-01	9.93E-03	2.16E-02	4.13E+01	4.13E+01
153	1.202365	1.11774	0.9266	0.9564	0.00E+00	2.47E-01	9.97E-03	2.08E-02	3.98E+01	3.98E+01
154	1.227227	1.14253	0.9331	0.9559	0.00E+00	2.76E-01	1.00E-02	2.00E-02	3.81E+01	3.81E+01
155	1.257121	1.17232	0.9393	0.9558	0.00E+00	3.10E-01	1.00E-02	1.90E-02	3.63E+01	3.63E+01
156	1.293064	1.208115	0.9454	0.9566	0.00E+00	3.49E-01	9.97E-03	1.80E-02	3.44E+01	3.44E+01
157	1.336281	1.251123	0.9512	0.9582	0.00E+00	3.90E-01	9.90E-03	1.69E-02	3.25E+01	3.24E+01
158	1.388243	1.302791	0.9567	0.9608	0.00E+00	4.35E-01	9.80E-03	1.59E-02	3.06E+01	3.05E+01
159	1.450721	1.364851	0.9618	0.964	0.00E+00	4.81E-01	9.68E-03	1.49E-02	2.88E+01	2.87E+01
160	1.525842	1.439392	0.9666	0.9678	0.00E+00	5.28E-01	9.54E-03	1.40E-02	2.71E+01	2.71E+01
161	1.616166	1.528919	0.9711	0.9719	0.00E+00	5.73E-01	9.39E-03	1.32E-02	2.57E+01	2.56E+01
162	1.724767	1.636436	0.9754	0.9759	0.00E+00	6.17E-01	9.25E-03	1.25E-02	2.44E+01	2.43E+01
163	1.855346	1.765521	0.9791	0.9796	0.00E+00	6.58E-01	9.12E-03	1.19E-02	2.33E+01	2.32E+01
164	2.01235	1.920521	0.9825	0.983	0.00E+00	6.96E-01	9.01E-03	1.14E-02	2.23E+01	2.23E+01
165	2.201127	2.10664	0.9855	0.9861	0.00E+00	7.30E-01	8.90E-03	1.09E-02	2.15E+01	2.15E+01
166	2.428105	2.3301	0.9882	0.9888	0.00E+00	7.61E-01	8.81E-03	1.05E-02	2.08E+01	2.08E+01
167	2.701017	2.598381	0.9904	0.991	0.00E+00	7.89E-01	8.72E-03	1.02E-02	2.02E+01	2.02E+01
168	3.029157	2.920534	0.9923	0.9929	0.00E+00	8.14E-01	8.64E-03	9.93E-03	1.97E+01	1.97E+01
169	3.423702	3.3074	0.994	0.9944	0.00E+00	8.35E-01	8.56E-03	9.67E-03	1.92E+01	1.92E+01

a=16 degree										
nx	x	xc	uei	uev	cf	uc	theta	dls	dd	db
2	0.007413	-0.063446	0.0433	0.0433	6.52E-02	0.00E+00	6.30E-05	1.40E-04	1.22E-02	1.22E-02
3	0.014525	-0.056571	0.1175	0.1175	3.41E-02	0.00E+00	4.79E-05	1.04E-04	2.44E-02	2.44E-02
4	0.02133	-0.050033	0.1997	0.1997	2.22E-02	0.00E+00	4.15E-05	9.13E-05	3.65E-02	3.65E-02
5	0.027824	-0.043844	0.2917	0.2917	1.63E-02	0.00E+00	3.89E-05	8.57E-05	5.00E-02	5.00E-02
6	0.034004	-0.038009	0.3962	0.3962	1.31E-02	0.00E+00	3.60E-05	7.88E-05	6.25E-02	6.25E-02
7	0.039864	-0.032541	0.5152	0.5152	1.10E-02	0.00E+00	3.32E-05	7.25E-05	7.47E-02	7.47E-02
8	0.0454	-0.02745	0.6522	0.6522	9.62E-03	0.00E+00	3.04E-05	6.62E-05	8.64E-02	8.64E-02
9	0.050608	-0.022751	0.8101	0.8101	8.56E-03	0.00E+00	2.78E-05	6.02E-05	9.75E-02	9.75E-02
10	0.055485	-0.018457	0.9933	0.9933	7.77E-03	0.00E+00	2.52E-05	5.44E-05	1.08E-01	1.08E-01
11	0.060026	-0.014585	1.2068	1.2068	7.13E-03	0.00E+00	2.27E-05	4.90E-05	1.18E-01	1.18E-01
12	0.06423	-0.011156	1.4539	1.4539	6.61E-03	0.00E+00	2.05E-05	4.41E-05	1.28E-01	1.28E-01
13	0.068092	-0.008186	1.739	1.739	6.16E-03	0.00E+00	1.85E-05	3.96E-05	1.38E-01	1.38E-01
14	0.071611	-0.005697	2.0582	2.0582	5.75E-03	0.00E+00	1.67E-05	3.59E-05	1.48E-01	1.48E-01
15	0.074783	-0.003699	2.4044	2.4044	5.36E-03	0.00E+00	1.53E-05	3.29E-05	1.58E-01	1.58E-01
16	0.077544	-0.002218	2.7539	2.7539	4.95E-03	0.00E+00	1.43E-05	3.08E-05	1.70E-01	1.70E-01
17	0.079851	-0.001225	3.0564	3.0564	4.53E-03	0.00E+00	1.37E-05	2.98E-05	1.82E-01	1.82E-01
18	0.081737	-0.000611	3.2994	3.2994	4.17E-03	0.00E+00	1.35E-05	2.96E-05	1.95E-01	1.95E-01
19	0.083238	-0.000267	3.4836	3.4836	3.86E-03	0.00E+00	1.35E-05	2.98E-05	2.08E-01	2.08E-01
20	0.084388	-0.000098	3.6107	3.6107	3.63E-03	0.00E+00	1.36E-05	3.02E-05	2.18E-01	2.18E-01
21	0.085216	-0.000026	3.6971	3.6971	3.54E-03	0.00E+00	1.37E-05	3.04E-05	2.25E-01	2.25E-01
22	0.08571	-0.000005	3.7543	3.7543	3.29E-03	0.00E+00	1.38E-05	3.09E-05	2.32E-01	2.32E-01
23	0.085968	0	3.7712	3.7712	3.12E-03	0.00E+00	1.39E-05	3.15E-05	2.38E-01	2.38E-01
24	0.086172	0	3.7835	3.7711	2.84E-03	0.00E+00	1.42E-05	3.29E-05	2.48E-01	2.48E-01
25	0.086431	0.000005	3.8031	3.7822	2.74E-03	0.00E+00	1.44E-05	3.33E-05	2.52E-01	2.52E-01
26	0.086925	0.000026	3.8222	3.8017	2.70E-03	0.00E+00	1.47E-05	3.43E-05	2.61E-01	2.61E-01
27	0.087753	0.000098	3.8637	3.8408	2.61E-03	0.00E+00	1.52E-05	3.53E-05	2.71E-01	2.71E-01
28	0.088902	0.000267	3.9113	3.8872	2.45E-03	0.00E+00	1.58E-05	3.69E-05	2.87E-01	2.87E-01
29	0.090403	0.000611	3.9459	3.9212	2.18E-03	0.00E+00	1.68E-05	3.97E-05	3.12E-01	3.12E-01
30	0.092289	0.001225	3.9504	3.927	1.82E-03	0.00E+00	1.86E-05	4.46E-05	3.50E-01	3.50E-01
31	0.094596	0.002218	3.9082	3.886	1.46E-03	0.00E+00	2.15E-05	5.19E-05	4.03E-01	4.03E-01
32	0.097357	0.003699	3.8041	3.7847	1.19E-03	0.00E+00	2.61E-05	6.26E-05	4.74E-01	4.74E-01
33	0.100529	0.005697	3.6642	3.6454	1.11E-03	0.00E+00	3.28E-05	7.51E-05	5.47E-01	5.47E-01
34	0.104048	0.008186	3.5084	3.4894	1.19E-03	0.00E+00	4.17E-05	8.94E-05	6.24E-01	6.24E-01
35	0.10791	0.011156	3.3482	3.3292	1.39E-03	0.00E+00	5.33E-05	1.06E-04	7.09E-01	7.09E-01
36	0.112114	0.014585	3.1948	3.1758	1.64E-03	0.00E+00	6.77E-05	1.27E-04	8.05E-01	8.05E-01
37	0.116656	0.018457	3.0522	3.0337	1.88E-03	0.00E+00	8.49E-05	1.51E-04	9.17E-01	9.17E-01
38	0.121533	0.022751	2.9224	2.9048	2.08E-03	0.00E+00	1.05E-04	1.80E-04	1.05E+00	1.05E+00
39	0.12674	0.02745	2.8054	2.789	2.22E-03	0.00E+00	1.28E-04	2.13E-04	1.19E+00	1.19E+00
40	0.132276	0.032541	2.6998	2.6836	2.30E-03	0.00E+00	1.51E-04	2.49E-04	1.34E+00	1.34E+00
41	0.138136	0.038009	2.6051	2.5901	2.27E-03	0.00E+00	1.77E-04	2.90E-04	1.50E+00	1.50E+00
42	0.144316	0.043844	2.5197	2.5056	2.22E-03	0.00E+00	2.07E-04	3.35E-04	1.68E+00	1.68E+00
43	0.15081	0.050033	2.4429	2.4292	2.19E-03	0.00E+00	2.38E-04	3.83E-04	1.86E+00	1.86E+00
44	0.157615	0.056571	2.3728	2.3597	2.16E-03	0.00E+00	2.73E-04	4.34E-04	2.05E+00	2.05E+00
45	0.164727	0.063446	2.3081	2.2959	2.12E-03	0.00E+00	3.09E-04	4.90E-04	2.25E+00	2.25E+00
46	0.17214	0.070651	2.2491	2.2374	2.08E-03	0.00E+00	3.47E-04	5.49E-04	2.46E+00	2.46E+00
47	0.17985	0.078176	2.1953	2.1841	2.04E-03	0.00E+00	3.87E-04	6.11E-04	2.67E+00	2.67E+00
48	0.18785	0.086014	2.1462	2.1352	2.01E-03	0.00E+00	4.28E-04	6.74E-04	2.88E+00	2.88E+00
49	0.196134	0.094157	2.1004	2.0897	1.98E-03	0.00E+00	4.72E-04	7.40E-04	3.09E+00	3.09E+00
50	0.204699	0.102597	2.0577	2.0472	1.94E-03	0.00E+00	5.17E-04	8.10E-04	3.32E+00	3.31E+00
51	0.213537	0.111328	2.0169	2.0068	1.92E-03	0.00E+00	5.64E-04	8.83E-04	3.54E+00	3.54E+00
52	0.222643	0.120341	1.9798	1.9697	1.90E-03	0.00E+00	6.12E-04	9.57E-04	3.77E+00	3.77E+00
53	0.23201	0.129628	1.9448	1.9351	1.86E-03	0.00E+00	6.61E-04	1.04E-03	4.01E+00	4.00E+00
54	0.241631	0.139181	1.9112	1.9015	1.81E-03	0.00E+00	7.13E-04	1.12E-03	4.25E+00	4.24E+00
55	0.251501	0.148995	1.8792	1.8696	1.78E-03	0.00E+00	7.67E-04	1.20E-03	4.49E+00	4.49E+00
56	0.261612	0.159058	1.8492	1.8397	1.76E-03	0.00E+00	8.24E-04	1.29E-03	4.73E+00	4.74E+00
57	0.271957	0.169364	1.8204	1.8113	1.73E-03	0.00E+00	8.81E-04	1.38E-03	4.99E+00	4.99E+00
58	0.28253	0.179905	1.7935	1.7842	1.72E-03	0.00E+00	9.41E-04	1.47E-03	5.24E+00	5.24E+00
59	0.293323	0.190672	1.7683	1.7588	1.70E-03	0.00E+00	1.00E-03	1.56E-03	5.49E+00	5.49E+00

60	0.304328	0.201657	1.7434	1.7339	1.67E-03	0.00E+00	1.06E-03	1.66E-03	5.75E+00	5.76E+00
61	0.315538	0.212851	1.7193	1.7101	1.64E-03	0.00E+00	1.13E-03	1.76E-03	6.02E+00	6.03E+00
62	0.326946	0.224248	1.6964	1.6874	1.62E-03	0.00E+00	1.19E-03	1.86E-03	6.29E+00	6.29E+00
63	0.338542	0.235836	1.6745	1.6653	1.60E-03	0.00E+00	1.26E-03	1.97E-03	6.56E+00	6.56E+00
64	0.35032	0.247608	1.6537	1.6441	1.59E-03	0.00E+00	1.33E-03	2.08E-03	6.83E+00	6.84E+00
65	0.362271	0.259557	1.6335	1.6236	1.56E-03	0.00E+00	1.40E-03	2.19E-03	7.11E+00	7.12E+00
66	0.374388	0.271671	1.6137	1.6038	1.54E-03	0.00E+00	1.47E-03	2.31E-03	7.39E+00	7.41E+00
67	0.38666	0.283943	1.5945	1.5846	1.52E-03	0.00E+00	1.55E-03	2.43E-03	7.69E+00	7.70E+00
68	0.399081	0.296364	1.576	1.5661	1.49E-03	0.00E+00	1.63E-03	2.55E-03	7.99E+00	8.00E+00
69	0.411642	0.308924	1.5581	1.5483	1.46E-03	0.00E+00	1.71E-03	2.68E-03	8.30E+00	8.31E+00
70	0.424334	0.321616	1.5407	1.5308	1.45E-03	0.00E+00	1.79E-03	2.81E-03	8.60E+00	8.62E+00
71	0.437147	0.334428	1.5243	1.5139	1.43E-03	0.00E+00	1.87E-03	2.94E-03	8.91E+00	8.93E+00
72	0.450074	0.347353	1.508	1.4975	1.40E-03	0.00E+00	1.95E-03	3.08E-03	9.23E+00	9.24E+00
73	0.463105	0.360382	1.4921	1.4814	1.37E-03	0.00E+00	2.04E-03	3.22E-03	9.55E+00	9.57E+00
74	0.476232	0.373504	1.4766	1.4657	1.35E-03	0.00E+00	2.13E-03	3.37E-03	9.89E+00	9.91E+00
75	0.489446	0.386712	1.4614	1.4505	1.32E-03	0.00E+00	2.22E-03	3.53E-03	1.02E+01	1.03E+01
76	0.502737	0.399994	1.4464	1.4356	1.30E-03	0.00E+00	2.32E-03	3.69E-03	1.06E+01	1.06E+01
77	0.516096	0.413343	1.4324	1.4214	1.28E-03	0.00E+00	2.42E-03	3.85E-03	1.09E+01	1.10E+01
78	0.529513	0.426748	1.4187	1.4074	1.26E-03	0.00E+00	2.52E-03	4.02E-03	1.13E+01	1.13E+01
79	0.542981	0.440201	1.4052	1.3935	1.23E-03	0.00E+00	2.62E-03	4.19E-03	1.17E+01	1.17E+01
80	0.556489	0.453692	1.3916	1.3799	1.22E-03	0.00E+00	2.72E-03	4.37E-03	1.21E+01	1.21E+01
81	0.570028	0.467211	1.3787	1.3666	1.20E-03	0.00E+00	2.83E-03	4.55E-03	1.24E+01	1.25E+01
82	0.583588	0.480749	1.366	1.3537	1.18E-03	0.00E+00	2.94E-03	4.75E-03	1.28E+01	1.29E+01
83	0.597161	0.494298	1.3538	1.3411	1.16E-03	0.00E+00	3.05E-03	4.94E-03	1.33E+01	1.33E+01
84	0.610738	0.507847	1.3418	1.3288	1.15E-03	0.00E+00	3.17E-03	5.15E-03	1.37E+01	1.37E+01
85	0.624308	0.521388	1.3301	1.3169	1.13E-03	0.00E+00	3.29E-03	5.36E-03	1.41E+01	1.41E+01
86	0.637862	0.534909	1.319	1.3052	1.11E-03	0.00E+00	3.41E-03	5.58E-03	1.46E+01	1.46E+01
87	0.651391	0.548405	1.3076	1.2935	1.08E-03	0.00E+00	3.53E-03	5.80E-03	1.50E+01	1.50E+01
88	0.664886	0.561863	1.2966	1.2819	1.06E-03	0.00E+00	3.66E-03	6.04E-03	1.55E+01	1.55E+01
89	0.678337	0.575274	1.2854	1.2704	1.03E-03	0.00E+00	3.79E-03	6.29E-03	1.60E+01	1.60E+01
90	0.691736	0.58863	1.2747	1.2592	1.01E-03	0.00E+00	3.92E-03	6.55E-03	1.65E+01	1.65E+01
91	0.705072	0.601923	1.2646	1.2483	9.87E-04	0.00E+00	4.06E-03	6.82E-03	1.70E+01	1.70E+01
92	0.718337	0.615142	1.2545	1.2377	9.62E-04	0.00E+00	4.20E-03	7.10E-03	1.76E+01	1.76E+01
93	0.731522	0.628278	1.2446	1.2272	9.36E-04	0.00E+00	4.35E-03	7.39E-03	1.81E+01	1.81E+01
94	0.744617	0.641324	1.2346	1.2168	9.08E-04	0.00E+00	4.50E-03	7.70E-03	1.87E+01	1.87E+01
95	0.757614	0.654268	1.2252	1.2067	8.79E-04	0.00E+00	4.65E-03	8.02E-03	1.94E+01	1.94E+01
96	0.770502	0.667103	1.2165	1.1967	8.46E-04	0.00E+00	4.81E-03	8.35E-03	2.00E+01	2.00E+01
97	0.783274	0.67982	1.2074	1.1867	8.09E-04	0.00E+00	4.97E-03	8.71E-03	2.07E+01	2.07E+01
98	0.795922	0.69241	1.1975	1.1766	7.71E-04	0.00E+00	5.13E-03	9.10E-03	2.14E+01	2.14E+01
99	0.808435	0.704862	1.1877	1.1668	7.33E-04	0.00E+00	5.30E-03	9.51E-03	2.22E+01	2.22E+01
100	0.820805	0.717172	1.1797	1.1573	6.95E-04	0.00E+00	5.48E-03	9.93E-03	2.30E+01	2.30E+01
101	0.833025	0.72933	1.1716	1.1479	6.53E-04	0.00E+00	5.65E-03	1.04E-02	2.38E+01	2.39E+01
102	0.845085	0.741325	1.1624	1.1386	6.07E-04	0.00E+00	5.84E-03	1.09E-02	2.47E+01	2.48E+01
103	0.856977	0.753151	1.153	1.1295	5.61E-04	0.00E+00	6.03E-03	1.14E-02	2.57E+01	2.58E+01
104	0.868693	0.764799	1.1437	1.1206	5.14E-04	0.00E+00	6.22E-03	1.19E-02	2.68E+01	2.68E+01
105	0.880225	0.776261	1.1341	1.1119	4.68E-04	0.00E+00	6.42E-03	1.25E-02	2.79E+01	2.79E+01
106	0.891565	0.78753	1.1247	1.1036	4.21E-04	0.00E+00	6.61E-03	1.31E-02	2.90E+01	2.91E+01
107	0.902705	0.798598	1.116	1.0957	3.76E-04	0.00E+00	6.81E-03	1.38E-02	3.02E+01	3.03E+01
108	0.913637	0.809458	1.1072	1.0882	3.32E-04	0.00E+00	7.00E-03	1.45E-02	3.15E+01	3.15E+01
109	0.924355	0.820104	1.0985	1.081	2.91E-04	0.00E+00	7.19E-03	1.52E-02	3.28E+01	3.28E+01
110	0.93485	0.830526	1.0897	1.0743	2.53E-04	0.00E+00	7.41E-03	1.59E-02	3.41E+01	3.42E+01
111	0.945115	0.840717	1.0807	1.0681	2.16E-04	0.00E+00	7.61E-03	1.66E-02	3.55E+01	3.56E+01
112	0.955143	0.850672	1.0715	1.0622	1.77E-04	0.00E+00	7.80E-03	1.74E-02	3.70E+01	3.71E+01
113	0.964927	0.860383	1.0624	1.0566	1.40E-04	0.00E+00	7.99E-03	1.82E-02	3.85E+01	3.85E+01
114	0.974461	0.869844	1.0538	1.0515	1.08E-04	0.00E+00	8.17E-03	1.90E-02	4.00E+01	4.01E+01
115	0.983739	0.879049	1.0451	1.0468	7.89E-05	0.00E+00	8.36E-03	1.99E-02	4.16E+01	4.16E+01
116	0.992752	0.887991	1.0359	1.0424	5.13E-05	0.00E+00	8.53E-03	2.07E-02	4.32E+01	4.32E+01
117	1.001497	0.896665	1.0264	1.0384	2.57E-05	0.00E+00	8.69E-03	2.16E-02	4.48E+01	4.48E+01
118	1.009965	0.905062	1.0174	1.0347	1.95E-06	0.00E+00	8.83E-03	2.24E-02	4.64E+01	4.64E+01
119	1.018152	0.91318	1.0085	1.0313	-1.92E-05	0.00E+00	8.96E-03	2.33E-02	4.80E+01	4.80E+01

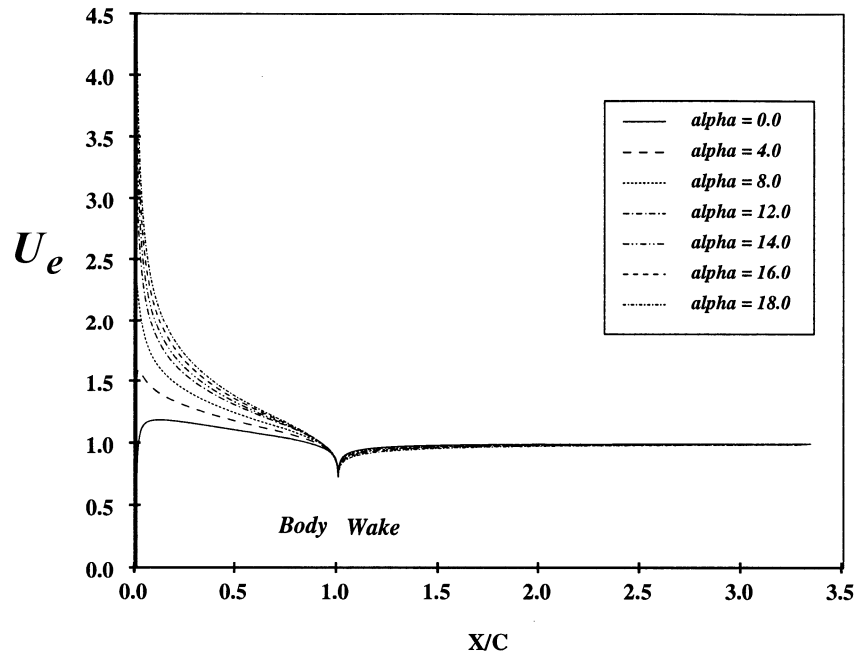
120	1.026052	0.921013	0.9987	1.0282	-3.78E-05	0.00E+00	9.08E-03	2.41E-02	4.96E+01	4.96E+01
121	1.033659	0.928553	0.9884	1.0254	-5.39E-05	0.00E+00	9.20E-03	2.50E-02	5.12E+01	5.11E+01
122	1.040969	0.935796	0.9784	1.0229	-6.75E-05	0.00E+00	9.30E-03	2.58E-02	5.27E+01	5.27E+01
123	1.047975	0.942739	0.9693	1.0206	-7.91E-05	0.00E+00	9.40E-03	2.66E-02	5.43E+01	5.42E+01
124	1.054674	0.949377	0.9592	1.0185	-8.95E-05	0.00E+00	9.49E-03	2.74E-02	5.57E+01	5.57E+01
125	1.06106	0.955704	0.9473	1.0166	-9.84E-05	0.00E+00	9.57E-03	2.81E-02	5.72E+01	5.71E+01
126	1.06713	0.961716	0.9352	1.0149	-1.05E-04	0.00E+00	9.69E-03	2.89E-02	5.86E+01	5.85E+01
127	1.072879	0.967408	0.9238	1.0133	-1.10E-04	0.00E+00	9.77E-03	2.96E-02	6.00E+01	5.99E+01
128	1.078303	0.97278	0.9106	1.0119	-1.15E-04	0.00E+00	9.83E-03	3.03E-02	6.12E+01	6.11E+01
129	1.083228	0.977655	0.8974	1.0107	-1.21E-04	0.00E+00	9.88E-03	3.09E-02	6.24E+01	6.23E+01
130	1.087506	0.981892	0.884	1.0096	-1.26E-04	0.00E+00	9.93E-03	3.14E-02	6.34E+01	6.33E+01
131	1.091193	0.985541	0.8716	1.0088	-1.30E-04	0.00E+00	9.96E-03	3.18E-02	6.42E+01	6.41E+01
132	1.094346	0.988662	0.8583	1.008	-1.32E-04	0.00E+00	1.00E-02	3.22E-02	6.49E+01	6.48E+01
133	1.097026	0.991315	0.8428	1.0074	-1.34E-04	0.00E+00	1.00E-02	3.25E-02	6.56E+01	6.54E+01
134	1.099294	0.993559	0.8249	1.0069	-1.36E-04	0.00E+00	1.01E-02	3.28E-02	6.61E+01	6.59E+01
135	1.101206	0.995451	0.8084	1.0065	-1.38E-04	0.00E+00	1.01E-02	3.30E-02	6.65E+01	6.64E+01
136	1.102815	0.997043	0.7889	1.0062	-1.40E-04	0.00E+00	1.01E-02	3.32E-02	6.68E+01	6.67E+01
137	1.104165	0.998379	0.7587	1.0059	-1.42E-04	0.00E+00	1.01E-02	3.34E-02	6.71E+01	6.70E+01
138	1.105291	0.999494	0.7404	1.0057	-1.43E-04	0.00E+00	1.01E-02	3.35E-02	6.73E+01	6.72E+01
139	1.106193	1.000395	0.7403	1.0056	0.00E+00	-4.37E-02	1.01E-02	3.35E-02	6.75E+01	6.73E+01
140	1.107276	1.001479	0.7548	1.0054	0.00E+00	-4.59E-02	1.01E-02	3.36E-02	6.76E+01	6.74E+01
141	1.108579	1.002782	0.776	1.005	0.00E+00	-4.35E-02	1.02E-02	3.37E-02	6.76E+01	6.75E+01
142	1.110146	1.004348	0.7887	1.0045	0.00E+00	-3.54E-02	1.02E-02	3.37E-02	6.77E+01	6.76E+01
143	1.11203	1.006232	0.8038	1.0038	0.00E+00	-2.34E-02	1.02E-02	3.37E-02	6.78E+01	6.76E+01
144	1.114295	1.008496	0.8193	1.0031	0.00E+00	-1.21E-02	1.03E-02	3.38E-02	6.78E+01	6.77E+01
145	1.117018	1.011219	0.8291	1.0023	0.00E+00	-2.89E-03	1.03E-02	3.38E-02	6.78E+01	6.77E+01
146	1.120292	1.014492	0.8403	1.0015	0.00E+00	4.74E-03	1.04E-02	3.38E-02	6.77E+01	6.76E+01
147	1.124229	1.018427	0.849	1.0005	0.00E+00	1.21E-02	1.04E-02	3.38E-02	6.77E+01	6.76E+01
148	1.128963	1.023158	0.8581	0.9993	0.00E+00	1.98E-02	1.05E-02	3.38E-02	6.75E+01	6.74E+01
149	1.134655	1.028845	0.8669	0.998	0.00E+00	2.78E-02	1.06E-02	3.37E-02	6.73E+01	6.72E+01
150	1.141499	1.035682	0.8748	0.9964	0.00E+00	3.65E-02	1.07E-02	3.36E-02	6.69E+01	6.69E+01
151	1.149727	1.0439	0.8827	0.9945	0.00E+00	4.60E-02	1.08E-02	3.34E-02	6.65E+01	6.64E+01
152	1.159621	1.05378	0.8905	0.9922	0.00E+00	5.67E-02	1.09E-02	3.32E-02	6.58E+01	6.58E+01
153	1.171516	1.065654	0.898	0.9895	0.00E+00	6.91E-02	1.10E-02	3.28E-02	6.50E+01	6.49E+01
154	1.18582	1.079926	0.9053	0.9864	0.00E+00	8.37E-02	1.12E-02	3.24E-02	6.38E+01	6.38E+01
155	1.203017	1.097078	0.9124	0.9827	0.00E+00	1.01E-01	1.14E-02	3.17E-02	6.24E+01	6.24E+01
156	1.223695	1.117689	0.9193	0.9785	0.00E+00	1.23E-01	1.17E-02	3.10E-02	6.06E+01	6.06E+01
157	1.248557	1.142456	0.926	0.9739	0.00E+00	1.50E-01	1.19E-02	2.99E-02	5.83E+01	5.83E+01
158	1.27845	1.172213	0.9325	0.9692	0.00E+00	1.83E-01	1.22E-02	2.87E-02	5.57E+01	5.57E+01
159	1.314394	1.207962	0.9388	0.9648	0.00E+00	2.23E-01	1.24E-02	2.73E-02	5.26E+01	5.26E+01
160	1.35761	1.250903	0.9449	0.9615	0.00E+00	2.70E-01	1.26E-02	2.56E-02	4.92E+01	4.93E+01
161	1.409572	1.302478	0.9508	0.9598	0.00E+00	3.23E-01	1.27E-02	2.38E-02	4.57E+01	4.58E+01
162	1.47205	1.364406	0.9563	0.9601	0.00E+00	3.80E-01	1.27E-02	2.20E-02	4.23E+01	4.23E+01
163	1.547171	1.438765	0.9615	0.9623	0.00E+00	4.38E-01	1.25E-02	2.03E-02	3.91E+01	3.91E+01
164	1.637494	1.528042	0.9665	0.9659	0.00E+00	4.96E-01	1.24E-02	1.88E-02	3.63E+01	3.63E+01
165	1.746095	1.63522	0.9712	0.9702	0.00E+00	5.50E-01	1.21E-02	1.75E-02	3.39E+01	3.39E+01
166	1.876674	1.76384	0.9754	0.9746	0.00E+00	6.01E-01	1.19E-02	1.64E-02	3.19E+01	3.19E+01
167	2.033678	1.918219	0.9792	0.9787	0.00E+00	6.47E-01	1.17E-02	1.55E-02	3.03E+01	3.03E+01
168	2.222453	2.103514	0.9827	0.9826	0.00E+00	6.88E-01	1.16E-02	1.47E-02	2.89E+01	2.89E+01
169	2.449431	2.325889	0.9858	0.9859	0.00E+00	7.25E-01	1.14E-02	1.41E-02	2.78E+01	2.78E+01
170	2.722342	2.592744	0.9885	0.9887	0.00E+00	7.58E-01	1.13E-02	1.36E-02	2.68E+01	2.69E+01
171	3.050481	2.913057	0.9907	0.991	0.00E+00	7.86E-01	1.12E-02	1.31E-02	2.61E+01	2.61E+01
172	3.445025	3.297567	0.9927	0.9929	0.00E+00	8.11E-01	1.11E-02	1.28E-02	2.54E+01	2.55E+01

a=18 degree										
nx	x	xc	uei	uev	cf	uc	theta	dls	dd	db
2	0.008	-0.07818	0.0593	0.0593	5.82E-02	0.00E+00	5.26E-05	1.16E-04	1.38E-02	1.38E-02
3	0.015709	-0.07065	0.1255	0.1255	2.95E-02	0.00E+00	4.94E-05	1.09E-04	2.74E-02	2.74E-02
4	0.023122	-0.06345	0.1986	0.1986	2.00E-02	0.00E+00	4.64E-05	1.02E-04	4.06E-02	4.06E-02
5	0.030234	-0.05657	0.2805	0.2805	1.52E-02	0.00E+00	4.34E-05	9.54E-05	5.35E-02	5.35E-02
6	0.03704	-0.05003	0.3717	0.3717	1.24E-02	0.00E+00	4.06E-05	8.89E-05	6.61E-02	6.61E-02
7	0.043534	-0.04384	0.4738	0.4738	1.05E-02	0.00E+00	3.78E-05	8.26E-05	7.82E-02	7.82E-02
8	0.049713	-0.03801	0.5897	0.5897	9.22E-03	0.00E+00	3.50E-05	7.62E-05	8.99E-02	8.99E-02
9	0.055573	-0.03254	0.7215	0.7215	8.25E-03	0.00E+00	3.22E-05	7.00E-05	1.01E-01	1.01E-01
10	0.061109	-0.02745	0.873	0.873	7.51E-03	0.00E+00	2.95E-05	6.39E-05	1.12E-01	1.12E-01
11	0.066317	-0.02275	1.0473	1.0473	6.92E-03	0.00E+00	2.69E-05	5.81E-05	1.22E-01	1.22E-01
12	0.071194	-0.01846	1.2492	1.2492	6.45E-03	0.00E+00	2.44E-05	5.26E-05	1.31E-01	1.31E-01
13	0.075736	-0.01459	1.4839	1.4839	6.05E-03	0.00E+00	2.21E-05	4.74E-05	1.41E-01	1.41E-01
14	0.079939	-0.01116	1.7547	1.7547	5.71E-03	0.00E+00	1.99E-05	4.26E-05	1.49E-01	1.49E-01
15	0.083801	-0.00819	2.0661	2.0661	5.40E-03	0.00E+00	1.79E-05	3.83E-05	1.58E-01	1.58E-01
16	0.08732	-0.0057	2.4133	2.4133	5.09E-03	0.00E+00	1.62E-05	3.47E-05	1.68E-01	1.68E-01
17	0.090492	-0.0037	2.7879	2.7879	4.79E-03	0.00E+00	1.49E-05	3.18E-05	1.78E-01	1.78E-01
18	0.093254	-0.00222	3.1637	3.1637	4.45E-03	0.00E+00	1.39E-05	2.99E-05	1.89E-01	1.89E-01
19	0.09556	-0.00123	3.4858	3.4858	4.09E-03	0.00E+00	1.34E-05	2.90E-05	2.02E-01	2.02E-01
20	0.097447	-0.00061	3.7421	3.7421	3.77E-03	0.00E+00	1.32E-05	2.88E-05	2.16E-01	2.16E-01
21	0.098948	-0.00027	3.9342	3.9342	3.49E-03	0.00E+00	1.32E-05	2.91E-05	2.29E-01	2.29E-01
22	0.100097	-9.8E-05	4.0653	4.0653	3.28E-03	0.00E+00	1.33E-05	2.96E-05	2.40E-01	2.40E-01
23	0.100925	-2.6E-05	4.1539	4.1539	3.20E-03	0.00E+00	1.34E-05	2.98E-05	2.47E-01	2.47E-01
24	0.101419	-5E-06	4.2129	4.2129	2.98E-03	0.00E+00	1.35E-05	3.03E-05	2.55E-01	2.55E-01
25	0.101677	0	4.2295	4.2085	2.56E-03	0.00E+00	1.39E-05	3.22E-05	2.71E-01	2.71E-01
26	0.101881	0	4.2417	4.2145	2.47E-03	0.00E+00	1.41E-05	3.27E-05	2.76E-01	2.76E-01
27	0.10214	0.000005	4.2612	4.2273	2.49E-03	0.00E+00	1.42E-05	3.29E-05	2.79E-01	2.79E-01
28	0.102634	0.000026	4.2776	4.2462	2.42E-03	0.00E+00	1.45E-05	3.40E-05	2.89E-01	2.89E-01
29	0.103462	0.000098	4.3157	4.2816	2.31E-03	0.00E+00	1.50E-05	3.51E-05	3.00E-01	3.00E-01
30	0.104611	0.000267	4.3576	4.3216	2.16E-03	0.00E+00	1.56E-05	3.67E-05	3.17E-01	3.17E-01
31	0.106112	0.000611	4.382	4.3465	1.90E-03	0.00E+00	1.67E-05	3.99E-05	3.47E-01	3.47E-01
32	0.107999	0.001225	4.3708	4.3361	1.57E-03	0.00E+00	1.86E-05	4.50E-05	3.90E-01	3.90E-01
33	0.110305	0.002218	4.3063	4.2726	1.25E-03	0.00E+00	2.16E-05	5.26E-05	4.49E-01	4.49E-01
34	0.113067	0.003699	4.1733	4.1428	9.93E-04	0.00E+00	2.65E-05	6.41E-05	5.31E-01	5.31E-01
35	0.116239	0.005697	4.0027	3.9733	9.01E-04	0.00E+00	3.35E-05	7.77E-05	6.18E-01	6.18E-01
36	0.119757	0.008186	3.8172	3.7878	9.60E-04	0.00E+00	4.30E-05	9.37E-05	7.09E-01	7.09E-01
37	0.12362	0.011156	3.6293	3.6002	1.11E-03	0.00E+00	5.52E-05	1.13E-04	8.11E-01	8.11E-01
38	0.127823	0.014585	3.4511	3.4218	1.34E-03	0.00E+00	7.03E-05	1.35E-04	9.21E-01	9.21E-01
39	0.132365	0.018457	3.2865	3.2577	1.58E-03	0.00E+00	8.86E-05	1.61E-04	1.05E+00	1.05E+00
40	0.137242	0.022751	3.1374	3.1092	1.78E-03	0.00E+00	1.10E-04	1.92E-04	1.19E+00	1.19E+00
41	0.14245	0.02745	3.0035	2.9765	1.95E-03	0.00E+00	1.34E-04	2.27E-04	1.35E+00	1.35E+00
42	0.147986	0.032541	2.883	2.8561	2.04E-03	0.00E+00	1.59E-04	2.67E-04	1.52E+00	1.52E+00
43	0.153846	0.038009	2.7753	2.7496	2.03E-03	0.00E+00	1.87E-04	3.11E-04	1.71E+00	1.71E+00
44	0.160025	0.043844	2.6783	2.6532	1.99E-03	0.00E+00	2.19E-04	3.60E-04	1.91E+00	1.91E+00
45	0.166519	0.050033	2.5911	2.5665	1.98E-03	0.00E+00	2.54E-04	4.13E-04	2.12E+00	2.12E+00
46	0.173325	0.056571	2.5117	2.4878	1.95E-03	0.00E+00	2.92E-04	4.71E-04	2.34E+00	2.34E+00
47	0.180437	0.063446	2.4387	2.4155	1.91E-03	0.00E+00	3.32E-04	5.34E-04	2.58E+00	2.58E+00
48	0.18785	0.070651	2.372	2.3494	1.88E-03	0.00E+00	3.74E-04	6.00E-04	2.82E+00	2.82E+00
49	0.195559	0.078176	2.3113	2.2891	1.84E-03	0.00E+00	4.18E-04	6.70E-04	3.07E+00	3.07E+00
50	0.203559	0.086014	2.256	2.2339	1.80E-03	0.00E+00	4.65E-04	7.43E-04	3.32E+00	3.32E+00
51	0.211844	0.094157	2.2045	2.1826	1.76E-03	0.00E+00	5.14E-04	8.20E-04	3.58E+00	3.58E+00
52	0.220408	0.102597	2.1565	2.1347	1.73E-03	0.00E+00	5.65E-04	9.01E-04	3.85E+00	3.85E+00
53	0.229246	0.111328	2.1106	2.0896	1.69E-03	0.00E+00	6.19E-04	9.88E-04	4.13E+00	4.13E+00
54	0.238352	0.120341	2.0691	2.0477	1.66E-03	0.00E+00	6.74E-04	1.07E-03	4.40E+00	4.40E+00
55	0.247719	0.129628	2.0299	2.0083	1.63E-03	0.00E+00	7.32E-04	1.17E-03	4.69E+00	4.69E+00
56	0.25734	0.139181	1.9922	1.9708	1.59E-03	0.00E+00	7.91E-04	1.26E-03	4.98E+00	4.98E+00
57	0.26721	0.148995	1.9565	1.9351	1.56E-03	0.00E+00	8.54E-04	1.36E-03	5.28E+00	5.28E+00
58	0.277321	0.159058	1.923	1.9015	1.53E-03	0.00E+00	9.21E-04	1.47E-03	5.59E+00	5.59E+00
59	0.287667	0.169364	1.891	1.8698	1.51E-03	0.00E+00	9.87E-04	1.58E-03	5.90E+00	5.90E+00
60	0.29824	0.179905	1.8611	1.8395	1.48E-03	0.00E+00	1.06E-03	1.69E-03	6.21E+00	6.21E+00
61	0.309033	0.190672	1.8329	1.8107	1.45E-03	0.00E+00	1.13E-03	1.80E-03	6.53E+00	6.53E+00
62	0.320037	0.201657	1.8052	1.7828	1.42E-03	0.00E+00	1.20E-03	1.92E-03	6.86E+00	6.86E+00
63	0.331247	0.212851	1.7786	1.7561	1.39E-03	0.00E+00	1.28E-03	2.05E-03	7.20E+00	7.20E+00

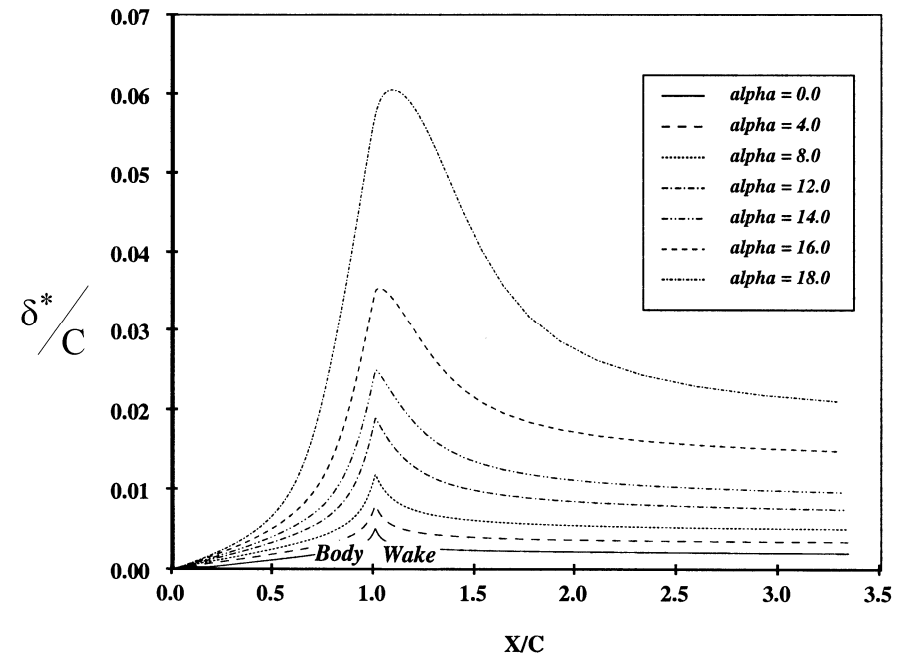
64	0.342655	0.224248	1.7532	1.7304	1.37E-03	0.00E+00	1.36E-03	2.18E-03	7.55E+00	7.55E+00
65	0.354252	0.235836	1.7289	1.7058	1.34E-03	0.00E+00	1.44E-03	2.32E-03	7.91E+00	7.91E+00
66	0.366029	0.247608	1.706	1.6824	1.31E-03	0.00E+00	1.52E-03	2.46E-03	8.27E+00	8.27E+00
67	0.377981	0.259557	1.6836	1.6594	1.29E-03	0.00E+00	1.61E-03	2.60E-03	8.64E+00	8.64E+00
68	0.390097	0.271671	1.6618	1.6372	1.27E-03	0.00E+00	1.70E-03	2.76E-03	9.03E+00	9.03E+00
69	0.40237	0.283943	1.6407	1.6158	1.25E-03	0.00E+00	1.80E-03	2.92E-03	9.43E+00	9.43E+00
70	0.41479	0.296364	1.6203	1.5948	1.23E-03	0.00E+00	1.89E-03	3.08E-03	9.83E+00	9.83E+00
71	0.427351	0.308924	1.6006	1.5747	1.21E-03	0.00E+00	2.00E-03	3.26E-03	1.03E+01	1.03E+01
72	0.440043	0.321616	1.5816	1.5552	1.19E-03	0.00E+00	2.10E-03	3.44E-03	1.07E+01	1.07E+01
73	0.452856	0.334428	1.5635	1.5361	1.16E-03	0.00E+00	2.20E-03	3.62E-03	1.11E+01	1.11E+01
74	0.465783	0.347353	1.5457	1.5175	1.14E-03	0.00E+00	2.31E-03	3.82E-03	1.16E+01	1.16E+01
75	0.478815	0.360382	1.5282	1.4992	1.12E-03	0.00E+00	2.42E-03	4.02E-03	1.21E+01	1.21E+01
76	0.491942	0.373504	1.5113	1.4814	1.09E-03	0.00E+00	2.54E-03	4.24E-03	1.26E+01	1.26E+01
77	0.505155	0.386712	1.4946	1.464	1.06E-03	0.00E+00	2.66E-03	4.46E-03	1.31E+01	1.31E+01
78	0.518446	0.399994	1.4784	1.4471	1.03E-03	0.00E+00	2.79E-03	4.71E-03	1.36E+01	1.36E+01
79	0.531805	0.413343	1.463	1.4307	1.01E-03	0.00E+00	2.92E-03	4.95E-03	1.42E+01	1.42E+01
80	0.545223	0.426748	1.4481	1.4146	9.80E-04	0.00E+00	3.05E-03	5.22E-03	1.48E+01	1.48E+01
81	0.55869	0.440201	1.4334	1.3986	9.48E-04	0.00E+00	3.19E-03	5.49E-03	1.54E+01	1.54E+01
82	0.572198	0.453692	1.4186	1.3829	9.14E-04	0.00E+00	3.34E-03	5.79E-03	1.60E+01	1.60E+01
83	0.585737	0.467211	1.4046	1.3676	8.78E-04	0.00E+00	3.48E-03	6.10E-03	1.67E+01	1.67E+01
84	0.599298	0.480749	1.3908	1.3526	8.41E-04	0.00E+00	3.64E-03	6.44E-03	1.74E+01	1.74E+01
85	0.612871	0.494298	1.3776	1.3379	8.04E-04	0.00E+00	3.80E-03	6.79E-03	1.82E+01	1.82E+01
86	0.626447	0.507847	1.3646	1.3236	7.66E-04	0.00E+00	3.98E-03	7.17E-03	1.90E+01	1.90E+01
87	0.640017	0.521388	1.3519	1.3096	7.26E-04	0.00E+00	4.16E-03	7.57E-03	1.98E+01	1.98E+01
88	0.653571	0.534909	1.3398	1.296	6.84E-04	0.00E+00	4.34E-03	8.00E-03	2.07E+01	2.07E+01
89	0.667101	0.548405	1.3275	1.2823	6.38E-04	0.00E+00	4.52E-03	8.47E-03	2.17E+01	2.17E+01
90	0.680596	0.561863	1.3156	1.269	5.87E-04	0.00E+00	4.72E-03	8.97E-03	2.28E+01	2.28E+01
91	0.694047	0.575274	1.3035	1.2559	5.36E-04	0.00E+00	4.92E-03	9.52E-03	2.39E+01	2.39E+01
92	0.707445	0.58863	1.2919	1.2433	4.86E-04	0.00E+00	5.12E-03	1.01E-02	2.51E+01	2.51E+01
93	0.720782	0.601923	1.281	1.2312	4.34E-04	0.00E+00	5.33E-03	1.07E-02	2.64E+01	2.64E+01
94	0.734047	0.615142	1.2701	1.2194	3.82E-04	0.00E+00	5.54E-03	1.14E-02	2.78E+01	2.78E+01
95	0.747231	0.628278	1.2594	1.2082	3.27E-04	0.00E+00	5.76E-03	1.21E-02	2.93E+01	2.93E+01
96	0.760326	0.641324	1.2486	1.1975	2.72E-04	0.00E+00	5.98E-03	1.29E-02	3.09E+01	3.09E+01
97	0.773323	0.654268	1.2385	1.1874	2.22E-04	0.00E+00	6.19E-03	1.37E-02	3.26E+01	3.26E+01
98	0.786211	0.667103	1.2291	1.1779	1.74E-04	0.00E+00	6.43E-03	1.46E-02	3.44E+01	3.44E+01
99	0.798984	0.67982	1.2192	1.1691	1.26E-04	0.00E+00	6.66E-03	1.56E-02	3.64E+01	3.64E+01
100	0.811631	0.69241	1.2086	1.1609	7.99E-05	0.00E+00	6.89E-03	1.66E-02	3.85E+01	3.85E+01
101	0.824144	0.704862	1.1981	1.1532	3.85E-05	0.00E+00	7.11E-03	1.77E-02	4.07E+01	4.07E+01
102	0.836515	0.717172	1.1895	1.1463	2.17E-06	0.00E+00	7.32E-03	1.88E-02	4.30E+01	4.30E+01
103	0.848734	0.72933	1.1808	1.14	-3.13E-05	0.00E+00	7.51E-03	1.99E-02	4.54E+01	4.54E+01
104	0.860794	0.741325	1.1709	1.1342	-6.07E-05	0.00E+00	7.69E-03	2.12E-02	4.80E+01	4.79E+01
105	0.872686	0.753151	1.1608	1.1291	-8.45E-05	0.00E+00	7.86E-03	2.24E-02	5.06E+01	5.05E+01
106	0.884402	0.764799	1.1509	1.1244	-1.04E-04	0.00E+00	8.02E-03	2.37E-02	5.34E+01	5.33E+01
107	0.895934	0.776261	1.1407	1.1203	-1.19E-04	0.00E+00	8.16E-03	2.51E-02	5.62E+01	5.61E+01
108	0.907274	0.78753	1.1306	1.1166	-1.32E-04	0.00E+00	8.30E-03	2.65E-02	5.91E+01	5.90E+01
109	0.918414	0.798598	1.1214	1.1133	-1.44E-04	0.00E+00	8.43E-03	2.78E-02	6.20E+01	6.19E+01
110	0.929347	0.809458	1.1121	1.1103	-1.54E-04	0.00E+00	8.55E-03	2.92E-02	6.49E+01	6.48E+01
111	0.940064	0.820104	1.1027	1.1075	-1.61E-04	0.00E+00	8.62E-03	3.07E-02	6.79E+01	6.77E+01
112	0.950559	0.830526	1.0934	1.105	-1.66E-04	0.00E+00	8.68E-03	3.21E-02	7.09E+01	7.07E+01
113	0.960824	0.840717	1.0839	1.1029	-1.69E-04	0.00E+00	8.73E-03	3.35E-02	7.38E+01	7.37E+01
114	0.970852	0.850672	1.0741	1.1009	-1.73E-04	0.00E+00	8.77E-03	3.49E-02	7.68E+01	7.66E+01
115	0.980636	0.860383	1.0645	1.0992	-1.80E-04	0.00E+00	8.81E-03	3.63E-02	7.98E+01	7.95E+01
116	0.990171	0.869844	1.0554	1.0976	-1.85E-04	0.00E+00	8.84E-03	3.77E-02	8.27E+01	8.24E+01
117	0.999448	0.879049	1.0461	1.0962	-1.91E-04	0.00E+00	8.90E-03	3.90E-02	8.55E+01	8.53E+01
118	1.008462	0.887991	1.0365	1.095	-1.97E-04	0.00E+00	8.94E-03	4.03E-02	8.83E+01	8.80E+01
119	1.017206	0.896665	1.0264	1.0938	-2.04E-04	0.00E+00	9.00E-03	4.16E-02	9.11E+01	9.08E+01
120	1.025674	0.905062	1.017	1.0927	-2.09E-04	0.00E+00	9.06E-03	4.29E-02	9.38E+01	9.34E+01
121	1.033861	0.91318	1.0076	1.0916	-2.14E-04	0.00E+00	9.13E-03	4.41E-02	9.64E+01	9.60E+01
122	1.041761	0.921013	0.9973	1.0906	-2.17E-04	0.00E+00	9.21E-03	4.53E-02	9.89E+01	9.85E+01
123	1.049368	0.928553	0.9865	1.0897	-2.20E-04	0.00E+00	9.29E-03	4.65E-02	1.01E+02	1.01E+02
124	1.056678	0.935796	0.9761	1.0889	-2.26E-04	0.00E+00	9.35E-03	4.76E-02	1.04E+02	1.03E+02
125	1.063684	0.942739	0.9666	1.0881	-2.31E-04	0.00E+00	9.38E-03	4.87E-02	1.06E+02	1.06E+02
126	1.070383	0.949377	0.956	1.0874	-2.34E-04	0.00E+00	9.40E-03	4.97E-02	1.08E+02	1.08E+02
127	1.07677	0.955704	0.9435	1.0867	-2.38E-04	0.00E+00	9.42E-03	5.06E-02	1.10E+02	1.10E+02

128	1.082839	0.961716	0.9311	1.0861	-2.41E-04	0.00E+00	9.44E-03	5.15E-02	1.12E+02	1.12E+02
129	1.088588	0.967408	0.9193	1.0855	-2.44E-04	0.00E+00	9.45E-03	5.24E-02	1.14E+02	1.13E+02
130	1.094012	0.97278	0.9056	1.085	-2.46E-04	0.00E+00	9.48E-03	5.32E-02	1.15E+02	1.15E+02
131	1.098937	0.977655	0.8921	1.0845	-2.49E-04	0.00E+00	9.51E-03	5.39E-02	1.17E+02	1.16E+02
132	1.103216	0.981892	0.8783	1.0841	-2.51E-04	0.00E+00	9.54E-03	5.44E-02	1.18E+02	1.18E+02
133	1.106902	0.985541	0.8656	1.0837	-2.54E-04	0.00E+00	9.57E-03	5.49E-02	1.19E+02	1.19E+02
134	1.110055	0.988662	0.852	1.0834	-2.57E-04	0.00E+00	9.63E-03	5.53E-02	1.20E+02	1.19E+02
135	1.112735	0.991315	0.8361	1.0832	-2.60E-04	0.00E+00	9.66E-03	5.57E-02	1.21E+02	1.20E+02
136	1.115003	0.993559	0.8178	1.083	-2.63E-04	0.00E+00	9.68E-03	5.59E-02	1.21E+02	1.21E+02
137	1.116915	0.995451	0.8012	1.0828	-2.66E-04	0.00E+00	9.69E-03	5.61E-02	1.22E+02	1.21E+02
138	1.118524	0.997043	0.7815	1.0827	-2.70E-04	0.00E+00	9.69E-03	5.63E-02	1.22E+02	1.21E+02
139	1.119874	0.998379	0.7511	1.0826	-2.74E-04	0.00E+00	9.70E-03	5.65E-02	1.22E+02	1.22E+02
140	1.121001	0.999494	0.7328	1.0824	-2.79E-04	0.00E+00	9.71E-03	5.66E-02	1.23E+02	1.22E+02
141	1.121902	1.000395	0.7325	1.0824	0.00E+00	-1.23E-01	9.71E-03	5.67E-02	1.23E+02	1.22E+02
142	1.122986	1.001479	0.7468	1.0824	0.00E+00	-1.31E-01	9.70E-03	5.68E-02	1.23E+02	1.22E+02
143	1.124288	1.002782	0.7678	1.0824	0.00E+00	-1.38E-01	9.70E-03	5.70E-02	1.23E+02	1.23E+02
144	1.125855	1.004348	0.7803	1.0824	0.00E+00	-1.45E-01	9.70E-03	5.71E-02	1.24E+02	1.23E+02
145	1.127739	1.006232	0.7954	1.0823	0.00E+00	-1.50E-01	9.71E-03	5.73E-02	1.24E+02	1.24E+02
146	1.130004	1.008496	0.8107	1.0821	0.00E+00	-1.54E-01	9.72E-03	5.75E-02	1.24E+02	1.24E+02
147	1.132727	1.011218	0.8204	1.0818	0.00E+00	-1.57E-01	9.74E-03	5.77E-02	1.25E+02	1.24E+02
148	1.136002	1.014491	0.8315	1.0814	0.00E+00	-1.58E-01	9.77E-03	5.80E-02	1.25E+02	1.25E+02
149	1.139939	1.018426	0.8402	1.0807	0.00E+00	-1.55E-01	9.82E-03	5.83E-02	1.26E+02	1.25E+02
150	1.144673	1.023156	0.8493	1.0798	0.00E+00	-1.48E-01	9.88E-03	5.86E-02	1.26E+02	1.26E+02
151	1.150364	1.028842	0.8581	1.0788	0.00E+00	-1.40E-01	9.96E-03	5.89E-02	1.27E+02	1.26E+02
152	1.157208	1.035677	0.866	1.0776	0.00E+00	-1.35E-01	1.00E-02	5.92E-02	1.27E+02	1.27E+02
153	1.165436	1.043892	0.8739	1.0762	0.00E+00	-1.33E-01	1.02E-02	5.94E-02	1.28E+02	1.27E+02
154	1.17533	1.053767	0.8817	1.0744	0.00E+00	-1.31E-01	1.03E-02	5.97E-02	1.28E+02	1.28E+02
155	1.187226	1.065636	0.8893	1.0721	0.00E+00	-1.28E-01	1.05E-02	5.99E-02	1.28E+02	1.28E+02
156	1.201529	1.079899	0.8967	1.069	0.00E+00	-1.25E-01	1.07E-02	6.00E-02	1.28E+02	1.28E+02
157	1.218726	1.097038	0.9039	1.0664	0.00E+00	-1.26E-01	1.09E-02	5.98E-02	1.27E+02	1.27E+02
158	1.239404	1.117631	0.911	1.0612	0.00E+00	-1.13E-01	1.13E-02	5.95E-02	1.26E+02	1.26E+02
159	1.264266	1.142371	0.9179	1.0548	0.00E+00	-8.79E-02	1.18E-02	5.90E-02	1.24E+02	1.24E+02
160	1.29416	1.17209	0.9247	1.0467	0.00E+00	-6.91E-02	1.25E-02	5.81E-02	1.22E+02	1.21E+02
161	1.330103	1.207784	0.9313	1.0359	0.00E+00	-4.42E-02	1.34E-02	5.68E-02	1.18E+02	1.17E+02
162	1.373319	1.250649	0.9378	1.0223	0.00E+00	-9.39E-03	1.45E-02	5.49E-02	1.12E+02	1.11E+02
163	1.425281	1.302117	0.9441	1.0061	0.00E+00	3.73E-02	1.59E-02	5.22E-02	1.05E+02	1.04E+02
164	1.487759	1.363893	0.95	0.9893	0.00E+00	9.91E-02	1.73E-02	4.87E-02	9.65E+01	9.58E+01
165	1.56288	1.438043	0.9558	0.9748	0.00E+00	1.75E-01	1.86E-02	4.45E-02	8.67E+01	8.63E+01
166	1.653202	1.527034	0.9613	0.9655	0.00E+00	2.62E-01	1.93E-02	3.98E-02	7.69E+01	7.67E+01
167	1.761803	1.633825	0.9665	0.9627	0.00E+00	3.50E-01	1.95E-02	3.53E-02	6.79E+01	6.78E+01
168	1.892382	1.761913	0.9712	0.9648	0.00E+00	4.35E-01	1.92E-02	3.13E-02	6.04E+01	6.03E+01
169	2.049385	1.915584	0.9756	0.9695	0.00E+00	5.11E-01	1.88E-02	2.82E-02	5.46E+01	5.45E+01
170	2.23816	2.099942	0.9796	0.975	0.00E+00	5.77E-01	1.83E-02	2.57E-02	5.02E+01	5.01E+01
171	2.465137	2.321082	0.9832	0.98	0.00E+00	6.33E-01	1.79E-02	2.39E-02	4.69E+01	4.68E+01
172	2.738047	2.586317	0.9863	0.9843	0.00E+00	6.81E-01	1.76E-02	2.25E-02	4.44E+01	4.43E+01
173	3.066185	2.90454	0.9889	0.9877	0.00E+00	7.21E-01	1.73E-02	2.15E-02	4.24E+01	4.24E+01
174	3.460728	3.286377	0.9912	0.9902	0.00E+00	7.55E-01	1.72E-02	2.07E-02	4.09E+01	4.09E+01

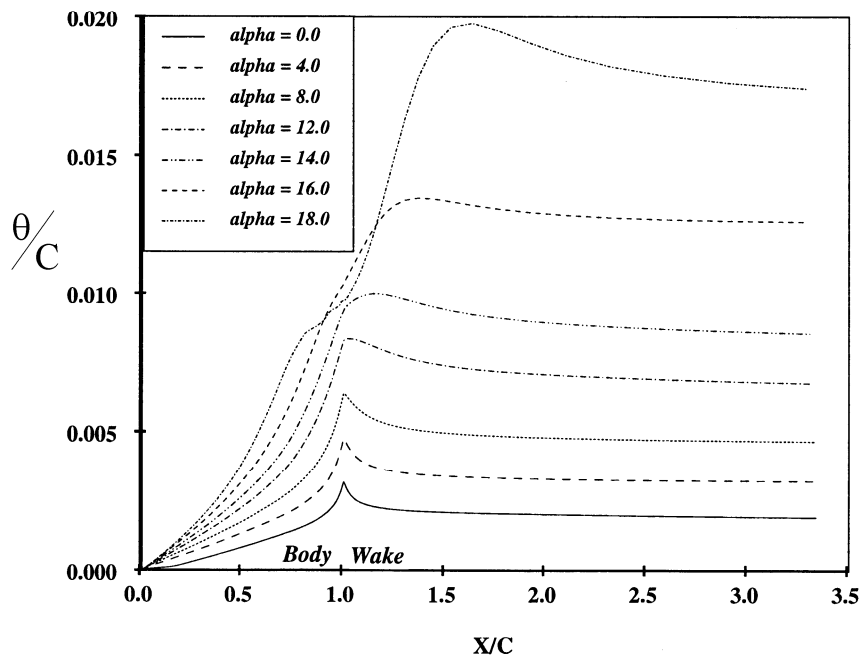
Inviscid U_e Distribution
N0012 Airfoil



Displacement Thickness Distribution
N0012 Airfoil at $Re = 4.0$ M



Momentum Thickness Distribution
N0012 Airfoil at $Re = 4.0$ M



C_f Distribution
N0012 Airfoil at $Re = 4.0$ M

