

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