

a=0 degree Upper Surface										
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

RL XTR ETAE VGP deta(1) p2(1)  
4000000.000 0.12963 8.00000 1.12000 0.01500 1.00000

