

## a=17 degree

| nx | x        | xc       | uei    | uev    | cf       | uc       | theta    | dls      | dd       | db       |
|----|----------|----------|--------|--------|----------|----------|----------|----------|----------|----------|
| 2  | 0.007709 | -0.07065 | 0.0515 | 0.0515 | 6.32E-02 | 0.00E+00 | 5.57E-05 | 1.23E-04 | 1.27E-02 | 1.27E-02 |
| 3  | 0.015122 | -0.06345 | 0.1213 | 0.1213 | 3.18E-02 | 0.00E+00 | 4.81E-05 | 1.06E-04 | 2.56E-02 | 2.56E-02 |
| 4  | 0.022234 | -0.05657 | 0.1991 | 0.1991 | 2.11E-02 | 0.00E+00 | 4.39E-05 | 9.67E-05 | 3.85E-02 | 3.85E-02 |
| 5  | 0.02904  | -0.05003 | 0.2858 | 0.2858 | 1.58E-02 | 0.00E+00 | 4.12E-05 | 9.05E-05 | 5.17E-02 | 5.17E-02 |
| 6  | 0.035534 | -0.04384 | 0.3828 | 0.3828 | 1.28E-02 | 0.00E+00 | 3.83E-05 | 8.40E-05 | 6.43E-02 | 6.43E-02 |
| 7  | 0.041713 | -0.03801 | 0.4931 | 0.4931 | 1.08E-02 | 0.00E+00 | 3.55E-05 | 7.75E-05 | 7.65E-02 | 7.65E-02 |
| 8  | 0.047573 | -0.03254 | 0.6184 | 0.6184 | 9.42E-03 | 0.00E+00 | 3.27E-05 | 7.12E-05 | 8.81E-02 | 8.81E-02 |
| 9  | 0.053109 | -0.02745 | 0.7627 | 0.7627 | 8.41E-03 | 0.00E+00 | 3.00E-05 | 6.50E-05 | 9.92E-02 | 9.92E-02 |
| 10 | 0.058317 | -0.02275 | 0.9288 | 0.9288 | 7.64E-03 | 0.00E+00 | 2.73E-05 | 5.91E-05 | 1.10E-01 | 1.10E-01 |
| 11 | 0.063194 | -0.01846 | 1.1214 | 1.1214 | 7.03E-03 | 0.00E+00 | 2.48E-05 | 5.35E-05 | 1.20E-01 | 1.20E-01 |
| 12 | 0.067736 | -0.01459 | 1.3456 | 1.3456 | 6.54E-03 | 0.00E+00 | 2.24E-05 | 4.82E-05 | 1.30E-01 | 1.30E-01 |
| 13 | 0.071939 | -0.01116 | 1.6046 | 1.6046 | 6.12E-03 | 0.00E+00 | 2.02E-05 | 4.33E-05 | 1.39E-01 | 1.39E-01 |
| 14 | 0.075801 | -0.00819 | 1.9029 | 1.9029 | 5.75E-03 | 0.00E+00 | 1.82E-05 | 3.90E-05 | 1.48E-01 | 1.48E-01 |
| 15 | 0.07932  | -0.0057  | 2.2361 | 2.2361 | 5.39E-03 | 0.00E+00 | 1.65E-05 | 3.53E-05 | 1.58E-01 | 1.58E-01 |
| 16 | 0.082492 | -0.0037  | 2.5965 | 2.5965 | 5.06E-03 | 0.00E+00 | 1.51E-05 | 3.23E-05 | 1.68E-01 | 1.68E-01 |
| 17 | 0.085254 | -0.00222 | 2.9592 | 2.9592 | 4.68E-03 | 0.00E+00 | 1.41E-05 | 3.03E-05 | 1.80E-01 | 1.80E-01 |
| 18 | 0.08756  | -0.00123 | 3.2715 | 3.2715 | 4.30E-03 | 0.00E+00 | 1.35E-05 | 2.94E-05 | 1.93E-01 | 1.93E-01 |
| 19 | 0.089447 | -0.00061 | 3.5213 | 3.5213 | 3.96E-03 | 0.00E+00 | 1.33E-05 | 2.92E-05 | 2.06E-01 | 2.06E-01 |
| 20 | 0.090948 | -0.00027 | 3.7094 | 3.7094 | 3.67E-03 | 0.00E+00 | 1.33E-05 | 2.94E-05 | 2.18E-01 | 2.18E-01 |
| 21 | 0.092097 | -9.8E-05 | 3.8386 | 3.8386 | 3.44E-03 | 0.00E+00 | 1.35E-05 | 2.99E-05 | 2.29E-01 | 2.29E-01 |
| 22 | 0.092925 | -2.6E-05 | 3.9261 | 3.9261 | 3.36E-03 | 0.00E+00 | 1.35E-05 | 3.01E-05 | 2.36E-01 | 2.36E-01 |
| 23 | 0.093419 | -5E-06   | 3.9842 | 3.9842 | 3.12E-03 | 0.00E+00 | 1.36E-05 | 3.06E-05 | 2.44E-01 | 2.44E-01 |
| 24 | 0.093677 | 0        | 4.0009 | 3.9839 | 2.74E-03 | 0.00E+00 | 1.40E-05 | 3.23E-05 | 2.58E-01 | 2.58E-01 |
| 25 | 0.093881 | 0        | 4.0132 | 3.9913 | 2.65E-03 | 0.00E+00 | 1.41E-05 | 3.28E-05 | 2.61E-01 | 2.61E-01 |
| 26 | 0.09414  | 0.000005 | 4.0327 | 4.0051 | 2.65E-03 | 0.00E+00 | 1.43E-05 | 3.30E-05 | 2.65E-01 | 2.65E-01 |
| 27 | 0.094634 | 0.000026 | 4.0505 | 4.0256 | 2.57E-03 | 0.00E+00 | 1.46E-05 | 3.41E-05 | 2.74E-01 | 2.74E-01 |
| 28 | 0.095462 | 0.000098 | 4.0903 | 4.063  | 2.46E-03 | 0.00E+00 | 1.50E-05 | 3.51E-05 | 2.86E-01 | 2.86E-01 |
| 29 | 0.096611 | 0.000267 | 4.135  | 4.106  | 2.30E-03 | 0.00E+00 | 1.57E-05 | 3.68E-05 | 3.02E-01 | 3.02E-01 |
| 30 | 0.098112 | 0.000611 | 4.1645 | 4.136  | 2.03E-03 | 0.00E+00 | 1.68E-05 | 3.99E-05 | 3.30E-01 | 3.30E-01 |
| 31 | 0.099999 | 0.001225 | 4.1612 | 4.1335 | 1.70E-03 | 0.00E+00 | 1.86E-05 | 4.47E-05 | 3.70E-01 | 3.70E-01 |
| 32 | 0.102305 | 0.002218 | 4.1078 | 4.081  | 1.38E-03 | 0.00E+00 | 2.16E-05 | 5.20E-05 | 4.24E-01 | 4.24E-01 |
| 33 | 0.105067 | 0.003699 | 3.9892 | 3.9652 | 1.13E-03 | 0.00E+00 | 2.64E-05 | 6.29E-05 | 4.99E-01 | 4.99E-01 |
| 34 | 0.108239 | 0.005697 | 3.834  | 3.8108 | 1.05E-03 | 0.00E+00 | 3.34E-05 | 7.59E-05 | 5.79E-01 | 5.79E-01 |
| 35 | 0.111757 | 0.008186 | 3.6633 | 3.6402 | 1.12E-03 | 0.00E+00 | 4.26E-05 | 9.11E-05 | 6.63E-01 | 6.63E-01 |
| 36 | 0.11562  | 0.011156 | 3.4893 | 3.4663 | 1.29E-03 | 0.00E+00 | 5.46E-05 | 1.09E-04 | 7.58E-01 | 7.58E-01 |
| 37 | 0.119823 | 0.014585 | 3.3235 | 3.3005 | 1.52E-03 | 0.00E+00 | 6.95E-05 | 1.31E-04 | 8.63E-01 | 8.63E-01 |
| 38 | 0.124365 | 0.018457 | 3.1698 | 3.1475 | 1.75E-03 | 0.00E+00 | 8.74E-05 | 1.56E-04 | 9.85E-01 | 9.85E-01 |
| 39 | 0.129242 | 0.022751 | 3.0303 | 3.0088 | 1.94E-03 | 0.00E+00 | 1.08E-04 | 1.86E-04 | 1.12E+00 | 1.12E+00 |
| 40 | 0.13445  | 0.02745  | 2.9049 | 2.8845 | 2.09E-03 | 0.00E+00 | 1.32E-04 | 2.21E-04 | 1.28E+00 | 1.28E+00 |
| 41 | 0.139986 | 0.032541 | 2.7918 | 2.7716 | 2.17E-03 | 0.00E+00 | 1.56E-04 | 2.59E-04 | 1.44E+00 | 1.44E+00 |
| 42 | 0.145846 | 0.038009 | 2.6906 | 2.6717 | 2.15E-03 | 0.00E+00 | 1.83E-04 | 3.02E-04 | 1.62E+00 | 1.62E+00 |
| 43 | 0.152025 | 0.043844 | 2.5994 | 2.5812 | 2.11E-03 | 0.00E+00 | 2.14E-04 | 3.49E-04 | 1.80E+00 | 1.80E+00 |
| 44 | 0.158519 | 0.050033 | 2.5174 | 2.4998 | 2.08E-03 | 0.00E+00 | 2.48E-04 | 4.00E-04 | 2.00E+00 | 2.00E+00 |
| 45 | 0.165325 | 0.056571 | 2.4427 | 2.4256 | 2.05E-03 | 0.00E+00 | 2.84E-04 | 4.55E-04 | 2.21E+00 | 2.21E+00 |
| 46 | 0.172437 | 0.063446 | 2.3738 | 2.3575 | 2.01E-03 | 0.00E+00 | 3.22E-04 | 5.14E-04 | 2.42E+00 | 2.42E+00 |
| 47 | 0.17985  | 0.070651 | 2.3109 | 2.2952 | 1.97E-03 | 0.00E+00 | 3.62E-04 | 5.77E-04 | 2.65E+00 | 2.65E+00 |
| 48 | 0.187559 | 0.078176 | 2.2536 | 2.2384 | 1.94E-03 | 0.00E+00 | 4.05E-04 | 6.42E-04 | 2.87E+00 | 2.87E+00 |
| 49 | 0.195559 | 0.086014 | 2.2014 | 2.1865 | 1.91E-03 | 0.00E+00 | 4.49E-04 | 7.11E-04 | 3.11E+00 | 3.11E+00 |
| 50 | 0.203844 | 0.094157 | 2.1528 | 2.1381 | 1.87E-03 | 0.00E+00 | 4.94E-04 | 7.82E-04 | 3.35E+00 | 3.35E+00 |
| 51 | 0.212408 | 0.102597 | 2.1074 | 2.0928 | 1.83E-03 | 0.00E+00 | 5.42E-04 | 8.57E-04 | 3.59E+00 | 3.59E+00 |
| 52 | 0.221246 | 0.111328 | 2.0641 | 2.0501 | 1.80E-03 | 0.00E+00 | 5.93E-04 | 9.37E-04 | 3.84E+00 | 3.84E+00 |
| 53 | 0.230352 | 0.120341 | 2.0248 | 2.0106 | 1.77E-03 | 0.00E+00 | 6.45E-04 | 1.02E-03 | 4.09E+00 | 4.09E+00 |
| 54 | 0.239719 | 0.129628 | 1.9876 | 1.9736 | 1.74E-03 | 0.00E+00 | 6.98E-04 | 1.10E-03 | 4.35E+00 | 4.35E+00 |
| 55 | 0.24934  | 0.139181 | 1.952  | 1.938  | 1.71E-03 | 0.00E+00 | 7.54E-04 | 1.19E-03 | 4.61E+00 | 4.61E+00 |
| 56 | 0.25921  | 0.148995 | 1.9181 | 1.9044 | 1.68E-03 | 0.00E+00 | 8.14E-04 | 1.28E-03 | 4.89E+00 | 4.89E+00 |

|     |          |          |        |        |           |          |          |          |          |          |
|-----|----------|----------|--------|--------|-----------|----------|----------|----------|----------|----------|
| 57  | 0.269321 | 0.159058 | 1.8864 | 1.873  | 1.65E-03  | 0.00E+00 | 8.74E-04 | 1.38E-03 | 5.17E+00 | 5.17E+00 |
| 58  | 0.279667 | 0.169364 | 1.856  | 1.8426 | 1.62E-03  | 0.00E+00 | 9.36E-04 | 1.48E-03 | 5.44E+00 | 5.44E+00 |
| 59  | 0.29024  | 0.179905 | 1.8276 | 1.814  | 1.60E-03  | 0.00E+00 | 9.99E-04 | 1.58E-03 | 5.72E+00 | 5.72E+00 |
| 60  | 0.301033 | 0.190672 | 1.8009 | 1.7869 | 1.57E-03  | 0.00E+00 | 1.07E-03 | 1.68E-03 | 6.01E+00 | 6.01E+00 |
| 61  | 0.312037 | 0.201657 | 1.7746 | 1.7608 | 1.55E-03  | 0.00E+00 | 1.13E-03 | 1.79E-03 | 6.30E+00 | 6.30E+00 |
| 62  | 0.323247 | 0.212851 | 1.7492 | 1.7354 | 1.52E-03  | 0.00E+00 | 1.20E-03 | 1.90E-03 | 6.60E+00 | 6.60E+00 |
| 63  | 0.334655 | 0.224248 | 1.7251 | 1.7112 | 1.50E-03  | 0.00E+00 | 1.28E-03 | 2.02E-03 | 6.91E+00 | 6.91E+00 |
| 64  | 0.346251 | 0.235836 | 1.702  | 1.6881 | 1.49E-03  | 0.00E+00 | 1.35E-03 | 2.14E-03 | 7.22E+00 | 7.22E+00 |
| 65  | 0.358029 | 0.247608 | 1.6801 | 1.6658 | 1.46E-03  | 0.00E+00 | 1.43E-03 | 2.26E-03 | 7.53E+00 | 7.53E+00 |
| 66  | 0.369981 | 0.259557 | 1.6588 | 1.6444 | 1.43E-03  | 0.00E+00 | 1.51E-03 | 2.39E-03 | 7.86E+00 | 7.86E+00 |
| 67  | 0.382097 | 0.271671 | 1.638  | 1.6236 | 1.40E-03  | 0.00E+00 | 1.59E-03 | 2.52E-03 | 8.19E+00 | 8.19E+00 |
| 68  | 0.394369 | 0.283943 | 1.6178 | 1.6032 | 1.37E-03  | 0.00E+00 | 1.67E-03 | 2.66E-03 | 8.53E+00 | 8.53E+00 |
| 69  | 0.40679  | 0.296364 | 1.5984 | 1.5835 | 1.35E-03  | 0.00E+00 | 1.76E-03 | 2.80E-03 | 8.87E+00 | 8.87E+00 |
| 70  | 0.419351 | 0.308924 | 1.5796 | 1.5643 | 1.32E-03  | 0.00E+00 | 1.84E-03 | 2.95E-03 | 9.22E+00 | 9.22E+00 |
| 71  | 0.432043 | 0.321616 | 1.5614 | 1.5459 | 1.30E-03  | 0.00E+00 | 1.94E-03 | 3.10E-03 | 9.57E+00 | 9.57E+00 |
| 72  | 0.444856 | 0.334428 | 1.5441 | 1.5282 | 1.28E-03  | 0.00E+00 | 2.03E-03 | 3.25E-03 | 9.94E+00 | 9.94E+00 |
| 73  | 0.457783 | 0.347353 | 1.5271 | 1.5108 | 1.26E-03  | 0.00E+00 | 2.13E-03 | 3.41E-03 | 1.03E+01 | 1.03E+01 |
| 74  | 0.470815 | 0.360382 | 1.5104 | 1.494  | 1.24E-03  | 0.00E+00 | 2.23E-03 | 3.58E-03 | 1.07E+01 | 1.07E+01 |
| 75  | 0.483942 | 0.373504 | 1.4942 | 1.4774 | 1.22E-03  | 0.00E+00 | 2.33E-03 | 3.76E-03 | 1.11E+01 | 1.11E+01 |
| 76  | 0.497155 | 0.386712 | 1.4782 | 1.4611 | 1.20E-03  | 0.00E+00 | 2.43E-03 | 3.94E-03 | 1.15E+01 | 1.15E+01 |
| 77  | 0.510446 | 0.399994 | 1.4626 | 1.4452 | 1.18E-03  | 0.00E+00 | 2.54E-03 | 4.13E-03 | 1.19E+01 | 1.19E+01 |
| 78  | 0.523805 | 0.413343 | 1.4479 | 1.4298 | 1.16E-03  | 0.00E+00 | 2.65E-03 | 4.32E-03 | 1.24E+01 | 1.24E+01 |
| 79  | 0.537223 | 0.426748 | 1.4336 | 1.4148 | 1.14E-03  | 0.00E+00 | 2.76E-03 | 4.52E-03 | 1.28E+01 | 1.28E+01 |
| 80  | 0.55069  | 0.440201 | 1.4195 | 1.4002 | 1.12E-03  | 0.00E+00 | 2.88E-03 | 4.73E-03 | 1.33E+01 | 1.33E+01 |
| 81  | 0.564198 | 0.453692 | 1.4053 | 1.3858 | 1.10E-03  | 0.00E+00 | 3.00E-03 | 4.96E-03 | 1.37E+01 | 1.37E+01 |
| 82  | 0.577737 | 0.467211 | 1.3919 | 1.3718 | 1.07E-03  | 0.00E+00 | 3.13E-03 | 5.19E-03 | 1.42E+01 | 1.42E+01 |
| 83  | 0.591298 | 0.480749 | 1.3786 | 1.3582 | 1.05E-03  | 0.00E+00 | 3.26E-03 | 5.43E-03 | 1.48E+01 | 1.48E+01 |
| 84  | 0.604871 | 0.494298 | 1.3659 | 1.3447 | 1.02E-03  | 0.00E+00 | 3.39E-03 | 5.68E-03 | 1.53E+01 | 1.53E+01 |
| 85  | 0.618447 | 0.507847 | 1.3534 | 1.3314 | 9.97E-04  | 0.00E+00 | 3.53E-03 | 5.94E-03 | 1.58E+01 | 1.58E+01 |
| 86  | 0.632017 | 0.521388 | 1.3412 | 1.3184 | 9.70E-04  | 0.00E+00 | 3.66E-03 | 6.22E-03 | 1.64E+01 | 1.64E+01 |
| 87  | 0.645571 | 0.534909 | 1.3296 | 1.3056 | 9.42E-04  | 0.00E+00 | 3.80E-03 | 6.50E-03 | 1.70E+01 | 1.70E+01 |
| 88  | 0.659101 | 0.548405 | 1.3177 | 1.293  | 9.12E-04  | 0.00E+00 | 3.96E-03 | 6.80E-03 | 1.76E+01 | 1.76E+01 |
| 89  | 0.672596 | 0.561863 | 1.3063 | 1.2807 | 8.83E-04  | 0.00E+00 | 4.12E-03 | 7.13E-03 | 1.83E+01 | 1.83E+01 |
| 90  | 0.686047 | 0.575274 | 1.2946 | 1.2686 | 8.50E-04  | 0.00E+00 | 4.27E-03 | 7.47E-03 | 1.89E+01 | 1.89E+01 |
| 91  | 0.699445 | 0.58863  | 1.2835 | 1.2566 | 8.14E-04  | 0.00E+00 | 4.44E-03 | 7.83E-03 | 1.97E+01 | 1.97E+01 |
| 92  | 0.712782 | 0.601923 | 1.273  | 1.2449 | 7.77E-04  | 0.00E+00 | 4.60E-03 | 8.20E-03 | 2.04E+01 | 2.04E+01 |
| 93  | 0.726047 | 0.615142 | 1.2625 | 1.2333 | 7.40E-04  | 0.00E+00 | 4.77E-03 | 8.60E-03 | 2.12E+01 | 2.12E+01 |
| 94  | 0.739231 | 0.628278 | 1.2522 | 1.222  | 7.00E-04  | 0.00E+00 | 4.95E-03 | 9.02E-03 | 2.21E+01 | 2.21E+01 |
| 95  | 0.752326 | 0.641324 | 1.2418 | 1.2109 | 6.58E-04  | 0.00E+00 | 5.13E-03 | 9.48E-03 | 2.29E+01 | 2.30E+01 |
| 96  | 0.765323 | 0.654268 | 1.232  | 1.2    | 6.17E-04  | 0.00E+00 | 5.32E-03 | 9.95E-03 | 2.39E+01 | 2.39E+01 |
| 97  | 0.778211 | 0.667103 | 1.223  | 1.1895 | 5.73E-04  | 0.00E+00 | 5.51E-03 | 1.05E-02 | 2.49E+01 | 2.49E+01 |
| 98  | 0.790984 | 0.67982  | 1.2135 | 1.1791 | 5.25E-04  | 0.00E+00 | 5.70E-03 | 1.10E-02 | 2.60E+01 | 2.60E+01 |
| 99  | 0.803631 | 0.69241  | 1.2033 | 1.1689 | 4.74E-04  | 0.00E+00 | 5.90E-03 | 1.16E-02 | 2.71E+01 | 2.71E+01 |
| 100 | 0.816144 | 0.704862 | 1.1931 | 1.1591 | 4.27E-04  | 0.00E+00 | 6.11E-03 | 1.22E-02 | 2.83E+01 | 2.84E+01 |
| 101 | 0.828515 | 0.717172 | 1.1848 | 1.1497 | 3.81E-04  | 0.00E+00 | 6.31E-03 | 1.29E-02 | 2.96E+01 | 2.97E+01 |
| 102 | 0.840734 | 0.72933  | 1.1764 | 1.1408 | 3.31E-04  | 0.00E+00 | 6.52E-03 | 1.36E-02 | 3.10E+01 | 3.10E+01 |
| 103 | 0.852794 | 0.741325 | 1.1668 | 1.1321 | 2.81E-04  | 0.00E+00 | 6.73E-03 | 1.43E-02 | 3.25E+01 | 3.25E+01 |
| 104 | 0.864686 | 0.753151 | 1.1571 | 1.1238 | 2.36E-04  | 0.00E+00 | 6.96E-03 | 1.52E-02 | 3.41E+01 | 3.41E+01 |
| 105 | 0.876402 | 0.764799 | 1.1474 | 1.1162 | 1.93E-04  | 0.00E+00 | 7.20E-03 | 1.60E-02 | 3.57E+01 | 3.58E+01 |
| 106 | 0.887934 | 0.776261 | 1.1376 | 1.1091 | 1.50E-04  | 0.00E+00 | 7.41E-03 | 1.69E-02 | 3.75E+01 | 3.75E+01 |
| 107 | 0.899274 | 0.78753  | 1.1278 | 1.1023 | 1.07E-04  | 0.00E+00 | 7.61E-03 | 1.78E-02 | 3.93E+01 | 3.94E+01 |
| 108 | 0.910414 | 0.798598 | 1.1188 | 1.096  | 7.06E-05  | 0.00E+00 | 7.83E-03 | 1.88E-02 | 4.12E+01 | 4.13E+01 |
| 109 | 0.921347 | 0.809458 | 1.1098 | 1.0904 | 3.95E-05  | 0.00E+00 | 8.04E-03 | 1.98E-02 | 4.32E+01 | 4.32E+01 |
| 110 | 0.932064 | 0.820104 | 1.1008 | 1.0852 | 9.70E-06  | 0.00E+00 | 8.22E-03 | 2.08E-02 | 4.52E+01 | 4.52E+01 |
| 111 | 0.942559 | 0.830526 | 1.0917 | 1.0804 | -1.90E-05 | 0.00E+00 | 8.39E-03 | 2.19E-02 | 4.72E+01 | 4.73E+01 |
| 112 | 0.952824 | 0.840717 | 1.0825 | 1.076  | -4.40E-05 | 0.00E+00 | 8.55E-03 | 2.29E-02 | 4.94E+01 | 4.94E+01 |
| 113 | 0.962852 | 0.850672 | 1.073  | 1.0721 | -6.46E-05 | 0.00E+00 | 8.70E-03 | 2.40E-02 | 5.15E+01 | 5.15E+01 |

|     |          |          |        |        |           |           |          |          |          |          |
|-----|----------|----------|--------|--------|-----------|-----------|----------|----------|----------|----------|
| 114 | 0.972636 | 0.860383 | 1.0636 | 1.0685 | -8.18E-05 | 0.00E+00  | 8.83E-03 | 2.51E-02 | 5.37E+01 | 5.37E+01 |
| 115 | 0.982171 | 0.869844 | 1.0547 | 1.0653 | -9.62E-05 | 0.00E+00  | 8.96E-03 | 2.62E-02 | 5.58E+01 | 5.58E+01 |
| 116 | 0.991448 | 0.879049 | 1.0458 | 1.0624 | -1.08E-04 | 0.00E+00  | 9.08E-03 | 2.73E-02 | 5.80E+01 | 5.80E+01 |
| 117 | 1.000462 | 0.887991 | 1.0363 | 1.0597 | -1.19E-04 | 0.00E+00  | 9.25E-03 | 2.84E-02 | 6.02E+01 | 6.02E+01 |
| 118 | 1.009206 | 0.896665 | 1.0266 | 1.0572 | -1.26E-04 | 0.00E+00  | 9.36E-03 | 2.95E-02 | 6.24E+01 | 6.23E+01 |
| 119 | 1.017674 | 0.905062 | 1.0174 | 1.055  | -1.33E-04 | 0.00E+00  | 9.44E-03 | 3.06E-02 | 6.45E+01 | 6.45E+01 |
| 120 | 1.025861 | 0.91318  | 1.0082 | 1.053  | -1.40E-04 | 0.00E+00  | 9.50E-03 | 3.16E-02 | 6.66E+01 | 6.65E+01 |
| 121 | 1.033761 | 0.921013 | 0.9982 | 1.0513 | -1.47E-04 | 0.00E+00  | 9.58E-03 | 3.27E-02 | 6.87E+01 | 6.86E+01 |
| 122 | 1.041368 | 0.928553 | 0.9876 | 1.0496 | -1.54E-04 | 0.00E+00  | 9.64E-03 | 3.37E-02 | 7.07E+01 | 7.06E+01 |
| 123 | 1.048678 | 0.935796 | 0.9774 | 1.0481 | -1.59E-04 | 0.00E+00  | 9.69E-03 | 3.47E-02 | 7.26E+01 | 7.26E+01 |
| 124 | 1.055684 | 0.942739 | 0.9681 | 1.0467 | -1.62E-04 | 0.00E+00  | 9.75E-03 | 3.56E-02 | 7.45E+01 | 7.44E+01 |
| 125 | 1.062383 | 0.949377 | 0.9578 | 1.0455 | -1.64E-04 | 0.00E+00  | 9.79E-03 | 3.65E-02 | 7.64E+01 | 7.62E+01 |
| 126 | 1.06877  | 0.955704 | 0.9456 | 1.0444 | -1.68E-04 | 0.00E+00  | 9.83E-03 | 3.74E-02 | 7.81E+01 | 7.80E+01 |
| 127 | 1.074839 | 0.961716 | 0.9333 | 1.0434 | -1.74E-04 | 0.00E+00  | 9.87E-03 | 3.82E-02 | 7.98E+01 | 7.97E+01 |
| 128 | 1.080588 | 0.967408 | 0.9217 | 1.0425 | -1.78E-04 | 0.00E+00  | 9.90E-03 | 3.90E-02 | 8.14E+01 | 8.12E+01 |
| 129 | 1.086012 | 0.97278  | 0.9083 | 1.0417 | -1.82E-04 | 0.00E+00  | 9.93E-03 | 3.98E-02 | 8.29E+01 | 8.27E+01 |
| 130 | 1.090937 | 0.977655 | 0.8949 | 1.0409 | -1.84E-04 | 0.00E+00  | 9.96E-03 | 4.05E-02 | 8.42E+01 | 8.41E+01 |
| 131 | 1.095216 | 0.981892 | 0.8813 | 1.0403 | -1.86E-04 | 0.00E+00  | 9.98E-03 | 4.10E-02 | 8.54E+01 | 8.52E+01 |
| 132 | 1.098902 | 0.985541 | 0.8687 | 1.0398 | -1.88E-04 | 0.00E+00  | 1.00E-02 | 4.15E-02 | 8.63E+01 | 8.62E+01 |
| 133 | 1.102055 | 0.988662 | 0.8552 | 1.0393 | -1.92E-04 | 0.00E+00  | 1.01E-02 | 4.19E-02 | 8.72E+01 | 8.70E+01 |
| 134 | 1.104735 | 0.991315 | 0.8396 | 1.039  | -1.95E-04 | 0.00E+00  | 1.01E-02 | 4.23E-02 | 8.79E+01 | 8.77E+01 |
| 135 | 1.107003 | 0.993559 | 0.8215 | 1.0387 | -1.99E-04 | 0.00E+00  | 1.01E-02 | 4.26E-02 | 8.84E+01 | 8.82E+01 |
| 136 | 1.108915 | 0.995451 | 0.8049 | 1.0384 | -2.01E-04 | 0.00E+00  | 1.01E-02 | 4.28E-02 | 8.89E+01 | 8.87E+01 |
| 137 | 1.110524 | 0.997043 | 0.7853 | 1.0382 | -2.03E-04 | 0.00E+00  | 1.02E-02 | 4.30E-02 | 8.93E+01 | 8.91E+01 |
| 138 | 1.111874 | 0.998379 | 0.755  | 1.038  | -2.05E-04 | 0.00E+00  | 1.02E-02 | 4.32E-02 | 8.96E+01 | 8.94E+01 |
| 139 | 1.113001 | 0.999494 | 0.7367 | 1.0378 | -2.08E-04 | 0.00E+00  | 1.02E-02 | 4.33E-02 | 8.99E+01 | 8.96E+01 |
| 140 | 1.113902 | 1.000395 | 0.7365 | 1.0378 | 0.00E+00  | -7.90E-02 | 1.02E-02 | 4.34E-02 | 9.00E+01 | 8.98E+01 |
| 141 | 1.114986 | 1.001479 | 0.7509 | 1.0378 | 0.00E+00  | -8.68E-02 | 1.02E-02 | 4.35E-02 | 9.02E+01 | 9.00E+01 |
| 142 | 1.116288 | 1.002782 | 0.7721 | 1.0377 | 0.00E+00  | -9.19E-02 | 1.02E-02 | 4.35E-02 | 9.03E+01 | 9.01E+01 |
| 143 | 1.117855 | 1.004348 | 0.7846 | 1.0375 | 0.00E+00  | -9.46E-02 | 1.02E-02 | 4.36E-02 | 9.05E+01 | 9.03E+01 |
| 144 | 1.119739 | 1.006232 | 0.7997 | 1.0372 | 0.00E+00  | -9.58E-02 | 1.03E-02 | 4.37E-02 | 9.06E+01 | 9.04E+01 |
| 145 | 1.122004 | 1.008496 | 0.8151 | 1.0368 | 0.00E+00  | -9.50E-02 | 1.03E-02 | 4.38E-02 | 9.08E+01 | 9.06E+01 |
| 146 | 1.124727 | 1.011218 | 0.8249 | 1.0362 | 0.00E+00  | -9.08E-02 | 1.03E-02 | 4.39E-02 | 9.09E+01 | 9.07E+01 |
| 147 | 1.128002 | 1.014492 | 0.836  | 1.0354 | 0.00E+00  | -8.32E-02 | 1.04E-02 | 4.39E-02 | 9.10E+01 | 9.08E+01 |
| 148 | 1.131939 | 1.018426 | 0.8447 | 1.0345 | 0.00E+00  | -7.41E-02 | 1.05E-02 | 4.40E-02 | 9.11E+01 | 9.09E+01 |
| 149 | 1.136672 | 1.023157 | 0.8539 | 1.0334 | 0.00E+00  | -6.63E-02 | 1.05E-02 | 4.41E-02 | 9.11E+01 | 9.10E+01 |
| 150 | 1.142364 | 1.028844 | 0.8626 | 1.0321 | 0.00E+00  | -5.94E-02 | 1.06E-02 | 4.41E-02 | 9.11E+01 | 9.10E+01 |
| 151 | 1.149208 | 1.035679 | 0.8705 | 1.0307 | 0.00E+00  | -4.92E-02 | 1.07E-02 | 4.41E-02 | 9.10E+01 | 9.09E+01 |
| 152 | 1.157436 | 1.043897 | 0.8785 | 1.029  | 0.00E+00  | -4.23E-02 | 1.09E-02 | 4.41E-02 | 9.07E+01 | 9.06E+01 |
| 153 | 1.16733  | 1.053774 | 0.8862 | 1.0267 | 0.00E+00  | -3.59E-02 | 1.10E-02 | 4.40E-02 | 9.03E+01 | 9.02E+01 |
| 154 | 1.179226 | 1.065645 | 0.8938 | 1.0239 | 0.00E+00  | -2.61E-02 | 1.12E-02 | 4.38E-02 | 8.96E+01 | 8.95E+01 |
| 155 | 1.193529 | 1.079913 | 0.9011 | 1.0203 | 0.00E+00  | -1.56E-02 | 1.14E-02 | 4.34E-02 | 8.87E+01 | 8.85E+01 |
| 156 | 1.210726 | 1.097059 | 0.9083 | 1.0158 | 0.00E+00  | -3.19E-03 | 1.17E-02 | 4.30E-02 | 8.73E+01 | 8.72E+01 |
| 157 | 1.231404 | 1.117661 | 0.9153 | 1.0102 | 0.00E+00  | 1.25E-02  | 1.21E-02 | 4.23E-02 | 8.54E+01 | 8.53E+01 |
| 158 | 1.256266 | 1.142415 | 0.9221 | 1.0034 | 0.00E+00  | 3.33E-02  | 1.26E-02 | 4.13E-02 | 8.29E+01 | 8.27E+01 |
| 159 | 1.28616  | 1.172153 | 0.9287 | 0.9953 | 0.00E+00  | 6.10E-02  | 1.31E-02 | 4.00E-02 | 7.96E+01 | 7.95E+01 |
| 160 | 1.322103 | 1.207876 | 0.9351 | 0.9862 | 0.00E+00  | 9.76E-02  | 1.37E-02 | 3.83E-02 | 7.55E+01 | 7.54E+01 |
| 161 | 1.365319 | 1.25078  | 0.9414 | 0.977  | 0.00E+00  | 1.44E-01  | 1.44E-02 | 3.62E-02 | 7.07E+01 | 7.06E+01 |
| 162 | 1.417282 | 1.302304 | 0.9475 | 0.9688 | 0.00E+00  | 2.01E-01  | 1.49E-02 | 3.37E-02 | 6.53E+01 | 6.52E+01 |
| 163 | 1.479759 | 1.364158 | 0.9532 | 0.9632 | 0.00E+00  | 2.66E-01  | 1.53E-02 | 3.10E-02 | 5.96E+01 | 5.95E+01 |
| 164 | 1.55488  | 1.438416 | 0.9587 | 0.961  | 0.00E+00  | 3.36E-01  | 1.54E-02 | 2.82E-02 | 5.41E+01 | 5.41E+01 |
| 165 | 1.645203 | 1.527555 | 0.964  | 0.9622 | 0.00E+00  | 4.07E-01  | 1.53E-02 | 2.56E-02 | 4.92E+01 | 4.91E+01 |
| 166 | 1.753804 | 1.634545 | 0.9689 | 0.9658 | 0.00E+00  | 4.75E-01  | 1.50E-02 | 2.33E-02 | 4.50E+01 | 4.50E+01 |
| 167 | 1.884383 | 1.762908 | 0.9734 | 0.9704 | 0.00E+00  | 5.38E-01  | 1.47E-02 | 2.14E-02 | 4.15E+01 | 4.16E+01 |
| 168 | 2.041386 | 1.916944 | 0.9775 | 0.9752 | 0.00E+00  | 5.95E-01  | 1.44E-02 | 1.99E-02 | 3.88E+01 | 3.88E+01 |
| 169 | 2.230162 | 2.101785 | 0.9812 | 0.9797 | 0.00E+00  | 6.44E-01  | 1.42E-02 | 1.87E-02 | 3.66E+01 | 3.67E+01 |
| 170 | 2.457139 | 2.323561 | 0.9846 | 0.9837 | 0.00E+00  | 6.88E-01  | 1.40E-02 | 1.77E-02 | 3.49E+01 | 3.50E+01 |

|     |          |          |        |        |          |          |          |          |          |          |
|-----|----------|----------|--------|--------|----------|----------|----------|----------|----------|----------|
| 171 | 2.73005  | 2.589631 | 0.9874 | 0.987  | 0.00E+00 | 7.26E-01 | 1.38E-02 | 1.70E-02 | 3.35E+01 | 3.36E+01 |
| 172 | 3.058188 | 2.90893  | 0.9899 | 0.9897 | 0.00E+00 | 7.59E-01 | 1.36E-02 | 1.63E-02 | 3.23E+01 | 3.24E+01 |
| 173 | 3.452732 | 3.292143 | 0.992  | 0.9918 | 0.00E+00 | 7.87E-01 | 1.35E-02 | 1.58E-02 | 3.14E+01 | 3.15E+01 |

| rl      | xtr     | etae | vgp  | deta(1) | p2(1) |
|---------|---------|------|------|---------|-------|
| 4000000 | 0.00003 | 8    | 1.12 | 0.015   | 1     |

