



| Pt    | Time | Freq | Zreal   | Zimag    | Zsig      | Zmod       | Zphz     | Idc       | Vdc     | IERange | z        | cap      |
|-------|------|------|---------|----------|-----------|------------|----------|-----------|---------|---------|----------|----------|
|       | s    | Hz   | ohm     | ohm      | V         | ohm        | °        | A         | V       | #       |          |          |
| 57564 | 0    | 5    | 100007  | 0.079766 | 0.044721  | 1 0.091448 | 29.2773  | 0.002352  | 2.26423 | 11      | 0.044721 | 3.56E-05 |
|       | 1    | 7    | 63105.5 | 0.059721 | 0.034405  | 1 0.068923 | 29.9458  | 0.001884  | 1.9993  | 11      | 0.034405 | 7.33E-05 |
|       | 2    | 9    | 39811.2 | 0.043567 | 0.025715  | 1 0.05059  | 30.5503  | 0.001692  | 1.99932 | 11      | 0.025715 | 0.000156 |
|       | 3    | 11   | 25123.7 | 0.03108  | 0.018367  | 1 0.036101 | 30.582   | 0.00171   | 1.99927 | 11      | 0.018367 | 0.000345 |
|       | 4    | 13   | 15852.9 | 0.022313 | 0.011313  | 1 0.025017 | 26.8863  | 0.00166   | 1.99926 | 11      | 0.011313 | 0.000888 |
|       | 5    | 17   | 9998.2  | 0.016916 | 0.005548  | 1 0.017802 | 18.1572  | 0.001567  | 1.9993  | 11      | 0.005548 | 0.002871 |
|       | 6    | 21   | 6311.1  | 0.014202 | 0.001468  | 1 0.014277 | 5.90307  | 0.001516  | 1.99929 | 11      | 0.001468 | 0.017187 |
|       | 7    | 25   | 3980.93 | 0.013443 | -0.001253 | 1 0.013501 | -5.32536 | 0.001488  | 1.99929 | 11      | 0.001253 | 0.031923 |
|       | 8    | 30   | 2511.16 | 0.013509 | -0.003478 | 1 0.013949 | -14.4374 | 0.001454  | 1.99926 | 11      | 0.003478 | 0.018232 |
|       | 9    | 34   | 1584.49 | 0.013762 | -0.006082 | 1 0.015046 | -23.8421 | 0.00142   | 1.99925 | 11      | 0.006082 | 0.016524 |
|       | 10   | 38   | 999.95  | 0.014039 | -0.00985  | 1 0.01715  | -35.0539 | 0.001403  | 1.99923 | 11      | 0.00985  | 0.016167 |
|       | 11   | 42   | 630.984 | 0.014371 | -0.01569  | 1 0.021277 | -47.5123 | 0.00146   | 1.99922 | 11      | 0.01569  | 0.016084 |
|       | 12   | 46   | 398.209 | 0.01477  | -0.024817 | 1 0.02888  | -59.2402 | 0.00218   | 1.99926 | 11      | 0.024817 | 0.016113 |
|       | 13   | 50   | 251.185 | 0.015139 | -0.039253 | 1 0.042072 | -68.9102 | 0.002071  | 1.99923 | 11      | 0.039253 | 0.01615  |
|       | 14   | 52   | 158.533 | 0.015614 | -0.062027 | 1 0.063963 | -75.8704 | 0.002049  | 1.99924 | 11      | 0.062027 | 0.016193 |
|       | 15   | 54   | 100.009 | 0.016288 | -0.097896 | 1 0.099242 | -80.5535 | 0.001992  | 1.99925 | 11      | 0.097896 | 0.016264 |
|       | 16   | 56   | 63.0971 | 0.017404 | -0.154539 | 1 0.155516 | -83.5743 | 0.001921  | 1.99927 | 11      | 0.154539 | 0.01633  |
|       | 17   | 58   | 40.0059 | 0.019564 | -0.243052 | 1 0.243838 | -85.398  | 0.0019    | 1.99925 | 11      | 0.243052 | 0.016376 |
|       | 18   | 61   | 24.9911 | 0.023514 | -0.386052 | 1 0.386767 | -86.5144 | 0.001234  | 1.99927 | 11      | 0.386052 | 0.016505 |
|       | 19   | 63   | 15.7934 | 0.032081 | -0.608367 | 1 0.609212 | -86.9814 | 0.001512  | 1.99926 | 11      | 0.608367 | 0.016573 |
|       | 20   | 65   | 9.9987  | 0.049681 | -0.96118  | 1 0.96246  | -87.0411 | -0.000868 | 1.99924 | 11      | 0.96118  | 0.016569 |
|       | 21   | 68   | 6.31623 | 0.081748 | -1.50165  | 1 1.50387  | -86.884  | 0.002466  | 1.99925 | 11      | 1.50165  | 0.016789 |
|       | 22   | 71   | 3.97302 | 0.154834 | -2.34664  | 1 2.35174  | -86.225  | -0.000786 | 1.99926 | 11      | 2.34664  | 0.017079 |
|       | 23   | 77   | 2.51085 | 0.272779 | -3.64654  | 1 3.65673  | -85.722  | -0.000384 | 1.99873 | 11      | 3.64654  | 0.017392 |
|       | 24   | 80   | 1.58325 | 0.4924   | -5.63165  | 1 5.65313  | -85.0031 | -0.00039  | 1.99872 | 11      | 5.63165  | 0.017859 |
|       | 25   | 85   | 1.00006 | 0.837917 | -8.63169  | 1 8.67226  | -84.4554 | -0.0004   | 1.99853 | 11      | 8.63169  | 0.018447 |
| 57565 | 0    | 5    | 100007  | 0.083118 | 0.051419  | 1 0.097736 | 31.7419  | 0.002412  | 2.26423 | 11      | 0.051419 | 3.1E-05  |
|       | 1    | 7    | 63105.5 | 0.061443 | 0.038728  | 1 0.07263  | 32.2237  | 1.97E-03  | 1.99929 | 11      | 0.038728 | 6.52E-05 |
|       | 2    | 9    | 39811.2 | 0.044491 | 0.028645  | 1 0.052915 | 32.7747  | 1.85E-03  | 1.9993  | 11      | 0.028645 | 0.00014  |
|       | 3    | 11   | 25123.7 | 0.031586 | 0.020094  | 1 0.037436 | 32.4635  | 1.78E-03  | 1.99931 | 11      | 0.020094 | 0.000315 |
|       | 4    | 13   | 15852.9 | 0.022426 | 0.012373  | 1 0.025613 | 28.8864  | 0.001602  | 1.99929 | 11      | 0.012373 | 0.000812 |
|       | 5    | 17   | 9998.2  | 0.016935 | 0.006166  | 1 0.018023 | 20.0051  | 1.61E-03  | 1.99928 | 11      | 0.006166 | 0.002583 |
|       | 6    | 21   | 6311.1  | 0.014114 | 0.001817  | 1 0.014231 | 7.33652  | 1.55E-03  | 1.99928 | 11      | 0.001817 | 0.013886 |
|       | 7    | 25   | 3980.93 | 0.013216 | -0.001058 | 1 0.013258 | -4.57629 | 1.48E-03  | 1.99928 | 11      | 0.001058 | 0.037807 |
|       | 8    | 29   | 2511.16 | 0.013271 | -0.003369 | 1 0.013692 | -14.2427 | 1.48E-03  | 1.99925 | 11      | 0.003369 | 0.018822 |
|       | 9    | 34   | 1584.49 | 0.013511 | -0.006027 | 1 0.014794 | -24.0414 | 1.46E-03  | 1.99923 | 11      | 0.006027 | 0.016674 |
|       | 10   | 38   | 999.95  | 0.013787 | -0.009846 | 1 0.016941 | -35.5329 | 1.43E-03  | 1.99922 | 11      | 0.009846 | 0.016173 |
|       | 11   | 42   | 630.984 | 0.014117 | -0.015731 | 1 0.021137 | -48.0962 | 1.49E-03  | 1.99921 | 11      | 0.015731 | 0.016042 |
|       | 12   | 46   | 398.209 | 0.01451  | -0.02493  | 1 0.028846 | -59.7995 | 2.20E-03  | 1.9992  | 11      | 0.02493  | 0.01604  |
|       | 13   | 50   | 251.185 | 0.014819 | -0.039459 | 1 0.04215  | -69.4162 | 2.08E-03  | 1.99921 | 11      | 0.039459 | 0.016066 |
|       | 14   | 52   | 158.533 | 0.015314 | -0.062392 | 1 0.064243 | -76.2094 | 2.08E-03  | 1.99922 | 11      | 0.062392 | 0.016099 |
|       | 15   | 54   | 100.009 | 0.015908 | -0.098553 | 1 0.099829 | -80.8305 | 2.00E-03  | 1.99924 | 11      | 0.098553 | 0.016156 |
|       | 16   | 56   | 63.0971 | 0.017105 | -0.155683 | 1 0.15662  | -83.7299 | 1.94E-03  | 1.99922 | 11      | 0.155683 | 0.01621  |
|       | 17   | 58   | 40.0059 | 0.019168 | -0.244651 | 1 0.245401 | -85.5201 | 1.93E-03  | 1.99924 | 11      | 0.244651 | 0.016269 |
|       | 18   | 60   | 24.9911 | 0.023901 | -0.3892   | 1 0.389933 | -86.4858 | 1.27E-03  | 1.99925 | 11      | 0.3892   | 0.016371 |
|       | 19   | 63   | 15.7934 | 0.031447 | -0.613169 | 1 0.613975 | -87.0641 | 1.53E-03  | 1.99925 | 11      | 0.613169 | 0.016443 |
|       | 20   | 65   | 9.9987  | 0.049394 | -0.96695  | 1 0.96821  | -87.0757 | -8.80E-04 | 1.99921 | 11      | 0.96695  | 0.01647  |
|       | 21   | 68   | 6.31623 | 0.083819 | -1.51161  | 1 1.51393  | -86.8262 | 2.49E-03  | 1.99923 | 11      | 1.51161  | 0.016678 |
|       | 22   | 71   | 3.97302 | 0.157516 | -2.35235  | 1 2.35762  | -86.1691 | -8.15E-04 | 1.99923 | 11      | 2.35235  | 0.017038 |
|       | 23   | 77   | 2.51085 | 0.272622 | -3.67163  | 1 3.68173  | -85.7535 | -3.78E-04 | 1.9987  | 11      | 3.67163  | 0.017273 |
|       | 24   | 80   | 1.58325 | 0.484598 | -5.67175  | 1 5.69242  | -85.1165 | -3.85E-04 | 1.99869 | 11      | 5.67175  | 0.017733 |
|       | 25   | 85   | 1.00006 | 0.822221 | -8.69695  | 1 8.73573  | -84.5992 | -3.93E-04 | 1.99852 | 11      | 8.69695  | 0.018308 |
| 57566 | 0    | 5    | 100007  | 0.076361 | 0.040157  | 1 0.086276 | 27.7392  | 0.002346  | 2.26422 | 11      | 0.040157 | 3.97E-05 |
|       | 1    | 7    | 63105.5 | 0.057621 | 0.030439  | 1 0.065166 | 27.846   | 1.91E-03  | 1.99932 | 11      | 0.030439 | 8.29E-05 |
|       | 2    | 9    | 39811.2 | 0.042522 | 0.02326   | 1 0.048468 | 28.6797  | 0.001717  | 1.99931 | 11      | 0.02326  | 0.000172 |
|       | 3    | 11   | 25123.7 | 0.030522 | 0.016732  | 1 0.034807 | 28.7305  | 1.67E-03  | 1.99931 | 11      | 0.016732 | 0.000379 |
|       | 4    | 15   | 15852.9 | 0.02196  | 0.010344  | 1 0.024274 | 25.2212  | 1.49E-03  | 1.9993  | 11      | 0.010344 | 0.000971 |
|       | 5    | 19   | 9998.2  | 0.016731 | 0.004961  | 1 0.017451 | 16.5152  | 1.54E-03  | 1.9993  | 11      | 0.004961 | 0.00321  |
|       | 6    | 24   | 6311.1  | 0.014128 | 0.001126  | 1 0.014172 | 4.55726  | 1.50E-03  | 1.99929 | 11      | 0.001126 | 0.022408 |
|       | 7    | 28   | 3980.93 | 0.013428 | -0.001462 | 1 0.013507 | -6.21344 | 1.44E-03  | 1.99929 | 11      | 0.001462 | 0.02736  |
|       | 8    | 32   | 2511.16 | 0.013545 | -3.62E-03 | 1 0.01402  | -14.9584 | 1.43E-03  | 1.99926 | 11      | 0.003619 | 0.017522 |
|       | 9    | 36   | 1584.49 | 0.01382  | -0.006192 | 1 0.015143 | -24.1363 | 1.40E-03  | 1.99924 | 11      | 0.006192 | 0.01623  |
|       | 10   | 40   | 999.95  | 0.01411  | -0.009953 | 1 0.017267 | -35.1996 | 1.39E-03  | 1.99923 | 11      | 0.009953 | 0.016    |
|       | 11   | 44   | 630.984 | 0.014457 | -0.01579  | 1 0.021409 | -47.5245 | 1.45E-03  | 1.99922 | 11      | 0.01579  | 0.015982 |
|       | 12   | 48   | 398.209 | 0.014859 | -0.02493  | 1 0.029022 | -59.2034 | 2.15E-03  | 1.99922 | 11      | 0.02493  | 0.01604  |
|       | 13   | 53   | 251.185 | 0.015211 | -0.039407 | 1 0.042241 | -68.8932 | 2.07E-03  | 1.99923 | 11      | 0.039407 | 0.016087 |
|       | 14   | 55   | 158.533 | 0.015681 | -0.062257 | 1 0.064201 | -75.8622 | 2.06E-03  | 1.99924 | 11      | 0.062257 | 0.016134 |
|       | 15   | 56   | 100.009 | 0.016378 | -0.098241 | 1 0.099597 | -80.5349 | 1.98E-03  | 1.99925 | 11      | 0.098241 | 0.016207 |

|       |    |         |          |           |   |          |          |           |         |    |          |          |
|-------|----|---------|----------|-----------|---|----------|----------|-----------|---------|----|----------|----------|
| 16    | 59 | 63.0971 | 0.017425 | -0.155274 | 1 | 0.156249 | -83.5969 | 1.92E-03  | 1.99924 | 11 | 0.155274 | 0.016253 |
| 17    | 61 | 40.0059 | 0.01964  | -0.243933 | 1 | 0.244722 | -85.3968 | 1.89E-03  | 1.99926 | 11 | 0.243933 | 0.016317 |
| 18    | 63 | 24.9911 | 0.02462  | -0.387721 | 1 | 0.388502 | -86.3667 | 1.24E-03  | 1.99927 | 11 | 0.387721 | 0.016434 |
| 19    | 65 | 15.7934 | 0.033742 | -0.610634 | 1 | 0.611566 | -86.8372 | 1.49E-03  | 1.99927 | 11 | 0.610634 | 0.016511 |
| 20    | 67 | 9.9987  | 0.052326 | -0.96574  | 1 | 0.96716  | -86.8986 | -8.49E-04 | 1.99924 | 11 | 0.96574  | 0.016491 |
| 21    | 70 | 6.31623 | 0.082873 | -1.51034  | 1 | 1.51261  | -86.8593 | 2.46E-03  | 1.99926 | 11 | 1.51034  | 0.016692 |
| 22    | 73 | 3.97302 | 0.169416 | -2.34169  | 1 | 2.34781  | -85.862  | -7.92E-04 | 1.99925 | 11 | 2.34169  | 0.017116 |
| 23    | 79 | 2.51085 | 0.282767 | -3.65155  | 1 | 3.66248  | -85.572  | -3.82E-04 | 1.99871 | 11 | 3.65155  | 0.017368 |
| 24    | 82 | 1.58325 | 0.50601  | -5.62973  | 1 | 5.65243  | -84.864  | -3.90E-04 | 1.9987  | 11 | 5.62973  | 0.017865 |
| 25    | 87 | 1.00006 | 0.853616 | -8.61968  | 1 | 8.66185  | -84.3444 | -4.07E-04 | 1.99853 | 11 | 8.61968  | 0.018472 |
| 57567 |    |         |          |           |   |          |          |           |         |    |          |          |
| 0     | 5  | 100007  | 0.077696 | 0.042415  | 1 | 0.08852  | 28.6306  | 0.002474  | 2.26421 | 11 | 0.042415 | 3.75E-05 |
| 1     | 7  | 63105.5 | 0.05829  | 0.032105  | 1 | 0.066547 | 28.8446  | 1.99E-03  | 1.99927 | 11 | 0.032105 | 7.86E-05 |
| 2     | 9  | 39811.2 | 0.042794 | 0.024479  | 1 | 0.049301 | 29.7704  | 1.76E-03  | 1.99932 | 11 | 0.024479 | 0.000163 |
| 3     | 11 | 25123.7 | 0.030667 | 0.017471  | 1 | 0.035295 | 29.6697  | 1.75E-03  | 1.99929 | 11 | 0.017471 | 0.000363 |
| 4     | 15 | 15852.9 | 0.022039 | 0.010856  | 1 | 0.024568 | 26.2231  | 0.001622  | 1.99928 | 11 | 0.010856 | 0.000925 |
| 5     | 19 | 9998.2  | 0.016692 | 0.005309  | 1 | 0.017516 | 17.6433  | 1.60E-03  | 1.99929 | 11 | 0.005309 | 0.003    |
| 6     | 23 | 6311.1  | 0.014015 | 0.001363  | 1 | 0.014081 | 5.55574  | 1.54E-03  | 1.99927 | 11 | 0.001363 | 0.018511 |
| 7     | 27 | 3980.93 | 0.013214 | -0.001292 | 1 | 0.013277 | -5.58556 | 1.49E-03  | 1.99928 | 11 | 0.001292 | 0.030959 |
| 8     | 32 | 2511.16 | 0.013279 | -3.48E-03 | 1 | 0.013728 | -14.6907 | 1.47E-03  | 1.99924 | 11 | 0.003481 | 0.018216 |
| 9     | 36 | 1584.49 | 0.013507 | -0.006065 | 1 | 0.014807 | -24.1822 | 1.45E-03  | 1.99923 | 11 | 0.006065 | 0.01657  |
| 10    | 40 | 999.95  | 0.013792 | -0.009823 | 1 | 0.016933 | -35.4586 | 1.44E-03  | 1.99922 | 11 | 0.009823 | 0.016211 |
| 11    | 44 | 630.984 | 0.014121 | -0.015641 | 1 | 0.021072 | -47.9233 | 1.49E-03  | 1.9992  | 11 | 0.015641 | 0.016135 |
| 12    | 48 | 398.209 | 0.014514 | -0.024743 | 1 | 0.028686 | -59.6033 | 2.20E-03  | 1.99924 | 11 | 0.024743 | 0.016161 |
| 13    | 52 | 251.185 | 0.014845 | -0.039155 | 1 | 0.041875 | -69.2372 | 2.09E-03  | 1.99922 | 11 | 0.039155 | 0.01619  |
| 14    | 54 | 158.533 | 0.015296 | -0.061912 | 1 | 0.063773 | -76.1224 | 2.07E-03  | 1.99923 | 11 | 0.061912 | 0.016224 |
| 15    | 56 | 100.009 | 0.015967 | -0.097755 | 1 | 0.09905  | -80.7236 | 2.01E-03  | 1.99924 | 11 | 0.097755 | 0.016288 |
| 16    | 58 | 63.0971 | 0.017107 | -0.15437  | 1 | 0.155315 | -83.6765 | 1.95E-03  | 1.99926 | 11 | 0.15437  | 0.016348 |
| 17    | 60 | 40.0059 | 0.01911  | -0.242635 | 1 | 0.243386 | -85.4967 | 1.93E-03  | 1.99925 | 11 | 0.242635 | 0.016404 |
| 18    | 63 | 24.9911 | 0.023359 | -0.385515 | 1 | 0.386222 | -86.5326 | 1.27E-03  | 1.99926 | 11 | 0.385515 | 0.016528 |
| 19    | 65 | 15.7934 | 0.032288 | -0.607362 | 1 | 0.608219 | -86.9569 | 1.55E-03  | 1.99925 | 11 | 0.607362 | 0.0166   |
| 20    | 67 | 9.9987  | 0.050968 | -0.95385  | 1 | 0.95521  | -86.9414 | -8.81E-04 | 1.99922 | 11 | 0.95385  | 0.016696 |
| 21    | 70 | 6.31623 | 0.085183 | -1.49789  | 1 | 1.50031  | -86.7452 | 2.48E-03  | 1.99924 | 11 | 1.49789  | 0.016831 |
| 22    | 73 | 3.97302 | 0.163242 | -2.33942  | 1 | 2.3451   | -86.0084 | -7.90E-04 | 1.99924 | 11 | 2.33942  | 0.017132 |
| 23    | 78 | 2.51085 | 0.27772  | -3.6349   | 1 | 3.64549  | -85.6309 | -3.82E-04 | 1.99871 | 11 | 3.6349   | 0.017447 |
| 24    | 82 | 1.58325 | 0.498476 | -5.60762  | 1 | 5.62973  | -84.9202 | -3.90E-04 | 1.9987  | 11 | 5.60762  | 0.017935 |
| 25    | 87 | 1.00006 | 0.841668 | -8.58469  | 1 | 8.62586  | -84.4005 | -3.86E-04 | 1.99854 | 11 | 8.58469  | 0.018548 |
| 57568 |    |         |          |           |   |          |          |           |         |    |          |          |
| 0     | 4  | 100007  | 0.078054 | 0.043077  | 1 | 0.089152 | 28.8938  | 2.55E-03  | 2.2642  | 11 | 0.043077 | 3.7E-05  |
| 1     | 6  | 63105.5 | 0.058449 | 0.032811  | 1 | 0.067029 | 29.308   | 1.89E-03  | 1.99931 | 11 | 0.032811 | 7.69E-05 |
| 2     | 8  | 39811.2 | 0.043054 | 0.024759  | 1 | 0.049665 | 29.9021  | 1.86E-03  | 1.99933 | 11 | 0.024759 | 0.000162 |
| 3     | 10 | 25123.7 | 0.030575 | 0.017655  | 1 | 0.035306 | 30.0038  | 0.001652  | 1.99931 | 11 | 0.017655 | 0.000359 |
| 4     | 14 | 15852.9 | 0.022    | 0.01091   | 1 | 0.024556 | 26.3778  | 1.60E-03  | 1.99926 | 11 | 0.01091  | 0.000921 |
| 5     | 19 | 9998.2  | 0.016644 | 0.005315  | 1 | 0.017472 | 17.7105  | 1.59E-03  | 1.99929 | 11 | 0.005315 | 0.002997 |
| 6     | 23 | 6311.1  | 0.013971 | 0.00134   | 1 | 0.014035 | 5.47812  | 1.53E-03  | 1.99928 | 11 | 0.00134  | 0.018829 |
| 7     | 27 | 3980.93 | 0.013184 | -0.001325 | 1 | 0.013251 | -5.73791 | 1.48E-03  | 1.99928 | 11 | 0.001325 | 0.030188 |
| 8     | 31 | 2511.16 | 0.013269 | -0.003519 | 1 | 0.013727 | -14.8554 | 1.48E-03  | 1.99925 | 11 | 0.003519 | 0.01802  |
| 9     | 35 | 1584.49 | 0.013513 | -0.006107 | 1 | 0.014829 | -24.3198 | 1.45E-03  | 1.99924 | 11 | 0.006107 | 0.016456 |
| 10    | 39 | 999.95  | 0.013784 | -0.009868 | 1 | 0.016952 | -35.6002 | 1.44E-03  | 1.99923 | 11 | 0.009868 | 0.016137 |
| 11    | 43 | 630.984 | 0.014098 | -0.015718 | 1 | 0.021114 | -48.1113 | 1.50E-03  | 1.99921 | 11 | 0.015718 | 0.016056 |
| 12    | 47 | 398.209 | 0.014458 | -0.024881 | 1 | 0.028776 | -59.8391 | 2.21E-03  | 1.99924 | 11 | 0.024881 | 0.016072 |
| 13    | 52 | 251.185 | 0.014762 | -0.039417 | 1 | 0.042091 | -69.4686 | 2.09E-03  | 1.99922 | 11 | 0.039417 | 0.016083 |
| 14    | 54 | 158.533 | 0.015184 | -0.062373 | 1 | 0.064194 | -76.3182 | 2.08E-03  | 1.99922 | 11 | 0.062373 | 0.016104 |
| 15    | 56 | 100.009 | 0.015822 | -0.098551 | 1 | 0.099813 | -80.8791 | 2.01E-03  | 1.99924 | 11 | 0.098551 | 0.016156 |
| 16    | 58 | 63.0971 | 0.01687  | -0.155708 | 1 | 0.15662  | -83.8164 | 1.96E-03  | 1.99923 | 11 | 0.155708 | 0.016208 |
| 17    | 60 | 40.0059 | 0.018828 | -0.244688 | 1 | 0.245411 | -85.6    | 1.93E-03  | 1.99924 | 11 | 0.244688 | 0.016267 |
| 18    | 62 | 24.9911 | 0.02245  | -0.389258 | 1 | 0.389905 | -86.6992 | 1.28E-03  | 1.99926 | 11 | 0.389258 | 0.016369 |
| 19    | 64 | 15.7934 | 0.032277 | -0.613119 | 1 | 0.613968 | -86.9865 | 1.54E-03  | 1.99925 | 11 | 0.613119 | 0.016444 |
| 20    | 66 | 9.9987  | 0.045797 | -0.96668  | 1 | 0.96776  | -87.2876 | -8.90E-04 | 1.99922 | 11 | 0.96668  | 0.016475 |
| 21    | 69 | 6.31623 | 0.079692 | -1.51704  | 1 | 1.51914  | -86.9929 | 2.50E-03  | 1.99924 | 11 | 1.51704  | 0.016618 |
| 22    | 73 | 3.97302 | 0.146988 | -2.34868  | 1 | 2.35327  | -86.4189 | -8.23E-04 | 1.99924 | 11 | 2.34868  | 0.017065 |
| 23    | 78 | 2.51085 | 0.261637 | -3.68022  | 1 | 3.68951  | -85.9335 | -3.81E-04 | 1.99871 | 11 | 3.68022  | 0.017232 |
| 24    | 82 | 1.58325 | 0.470082 | -5.68594  | 1 | 5.70534  | -85.2738 | -3.85E-04 | 1.9987  | 11 | 5.68594  | 0.017688 |
| 25    | 86 | 1.00006 | 0.79481  | -8.72972  | 1 | 8.76582  | -84.7978 | -3.94E-04 | 1.99856 | 11 | 8.72972  | 0.01824  |
| 57569 |    |         |          |           |   |          |          |           |         |    |          |          |
| 0     | 5  | 100007  | 0.078498 | 0.042853  | 1 | 0.089434 | 28.6307  | 2.36E-03  | 2.26423 | 11 | 0.042853 | 3.72E-05 |
| 1     | 7  | 63105.5 | 0.058833 | 0.033078  | 1 | 0.067494 | 29.3468  | 1.93E-03  | 1.9993  | 11 | 0.033078 | 7.63E-05 |
| 2     | 9  | 39811.2 | 0.04301  | 0.024926  | 1 | 0.049711 | 30.0942  | 1.79E-03  | 1.99931 | 11 | 0.024926 | 0.00016  |
| 3     | 11 | 25123.7 | 0.03061  | 0.017782  | 1 | 0.0354   | 30.1534  | 1.63E-03  | 1.99929 | 11 | 0.017782 | 0.000356 |
| 4     | 15 | 15852.9 | 0.021979 | 0.010944  | 1 | 0.024553 | 26.4705  | 1.58E-03  | 1.99928 | 11 | 0.010944 | 0.000918 |
| 5     | 19 | 9998.2  | 0.016647 | 0.00532   | 1 | 0.017476 | 17.7237  | 1.57E-03  | 1.99929 | 11 | 0.00532  | 0.002994 |
| 6     | 23 | 6311.1  | 0.013967 | 0.001331  | 1 | 0.014031 | 5.44309  | 1.52E-03  | 1.99928 | 11 | 0.001331 | 0.018956 |

|    |    |         |          |           |   |          |          |           |         |    |          |          |
|----|----|---------|----------|-----------|---|----------|----------|-----------|---------|----|----------|----------|
| 7  | 27 | 3980.93 | 0.013187 | -0.001341 | 1 | 0.013255 | -5.80745 | 1.46E-03  | 1.99928 | 11 | 0.001341 | 0.029828 |
| 8  | 31 | 2511.16 | 0.013295 | -0.003538 | 1 | 0.013757 | -14.9043 | 1.47E-03  | 1.99925 | 11 | 0.003538 | 0.017923 |
| 9  | 36 | 1584.49 | 0.013553 | -0.006134 | 1 | 0.014877 | -24.3519 | 1.44E-03  | 1.99924 | 11 | 0.006134 | 0.016384 |
| 10 | 40 | 999.95  | 0.013833 | -0.009908 | 1 | 0.017015 | -35.6125 | 1.43E-03  | 1.99922 | 11 | 0.009908 | 0.016072 |
| 11 | 44 | 630.984 | 0.014162 | -0.01576  | 1 | 0.021188 | -48.0581 | 1.48E-03  | 1.99921 | 11 | 0.01576  | 0.016013 |
| 12 | 48 | 398.209 | 0.014547 | -0.024933 | 1 | 0.028866 | -59.7389 | 2.18E-03  | 1.99922 | 11 | 0.024933 | 0.016038 |
| 13 | 52 | 251.185 | 0.014884 | -0.03946  | 1 | 0.042174 | -69.3337 | 2.09E-03  | 1.99923 | 11 | 0.03946  | 0.016065 |
| 14 | 54 | 158.533 | 0.015341 | -0.062374 | 1 | 0.064233 | -76.1822 | 2.08E-03  | 1.99924 | 11 | 0.062374 | 0.016103 |
| 15 | 56 | 100.009 | 0.015983 | -0.09854  | 1 | 0.099828 | -80.7872 | 2.00E-03  | 1.99925 | 11 | 0.09854  | 0.016158 |
| 16 | 58 | 63.0971 | 0.017019 | -0.155584 | 1 | 0.156512 | -83.7575 | 1.91E-03  | 1.99923 | 11 | 0.155584 | 0.016221 |
| 17 | 60 | 40.0059 | 0.019106 | -0.244537 | 1 | 0.245282 | -85.5326 | 1.93E-03  | 1.99926 | 11 | 0.244537 | 0.016277 |
| 18 | 62 | 24.9911 | 0.02365  | -0.388268 | 1 | 0.388987 | -86.5143 | 1.25E-03  | 1.99926 | 11 | 0.388268 | 0.016411 |
| 19 | 65 | 15.7934 | 0.031601 | -0.613219 | 1 | 0.614032 | -87.0499 | 1.53E-03  | 1.99926 | 11 | 0.613219 | 0.016442 |
| 20 | 67 | 9.9987  | 0.048351 | -0.97285  | 1 | 0.97405  | -87.1547 | -8.80E-04 | 1.99923 | 11 | 0.97285  | 0.01637  |
| 21 | 70 | 6.31623 | 0.073382 | -1.51661  | 1 | 1.51838  | -87.2299 | 2.49E-03  | 1.99925 | 11 | 1.51661  | 0.016623 |
| 22 | 73 | 3.97302 | 0.16416  | -2.35872  | 1 | 2.36443  | -86.0188 | -8.26E-04 | 1.99925 | 11 | 2.35872  | 0.016992 |
| 23 | 79 | 2.51085 | 0.270471 | -3.67368  | 1 | 3.68362  | -85.7893 | -3.83E-04 | 1.99871 | 11 | 3.67368  | 0.017263 |
| 24 | 82 | 1.58325 | 0.492257 | -5.67113  | 1 | 5.69246  | -85.0391 | -3.90E-04 | 1.9987  | 11 | 5.67113  | 0.017735 |
| 25 | 87 | 1.00006 | 0.839219 | -8.69934  | 1 | 8.73973  | -84.4898 | -3.98E-04 | 1.99854 | 11 | 8.69934  | 0.018303 |