

| <b><u>FREQUENCY</u></b> | <b><u>MAX. CORRELATED GAINS [dBi]</u></b> |
|-------------------------|-------------------------------------------|
| 2402 MHz                | 2.3                                       |
| 2443 MHz                | 2.2                                       |
| 2484 MHz                | 2.1                                       |
| 5170 MHz                | 3.0                                       |
| 5503 MHz                | 2.4                                       |
| 5835 MHz                | 1.4                                       |

| Frequency  | Phi | Theta        | X5 Gain Data | X6 Gain Data | X8 Gain Data | X9 Gain Data | Calculation Breakout |           |           |           |            |
|------------|-----|--------------|--------------|--------------|--------------|--------------|----------------------|-----------|-----------|-----------|------------|
| 2402000000 | 0   | -3.141592654 | -20.78073494 | -20.83728074 | -16.50798677 | -18.48822255 | 0.0083546            | 0.0082465 | 0.0223461 | 0.0141637 | -18.768757 |
| 2402000000 | 0   | -3.089232776 | -18.6839751  | -16.58079142 | -14.44999333 | -25.12496608 | 0.0135395            | 0.0219746 | 0.0358922 | 0.0030726 | -17.300266 |
| 2402000000 | 0   | -3.036872899 | -16.20482363 | -14.15928783 | -12.29476261 | -23.14962873 | 0.0239617            | 0.038377  | 0.0589554 | 0.0048421 | -15.01222  |
| 2402000000 | 0   | -2.984513021 | -14.47570939 | -12.92410886 | -10.66204996 | -17.55042996 | 0.0356803            | 0.0510022 | 0.0858605 | 0.0177565 | -13.226222 |
| 2402000000 | 0   | -2.932153143 | -13.56214593 | -12.33996961 | -9.565772317 | -13.93024721 | 0.0404037            | 0.0853449 | 0.1105154 | 0.0404548 | -11.98341  |
| 2402000000 | 0   | -2.879793266 | -13.37591706 | -11.93661409 | -8.905757507 | -11.52291762 | 0.045963             | 0.0604234 | 0.1286543 | 0.0703977 | -11.120477 |
| 2402000000 | 0   | -2.827433388 | -13.80664364 | -11.29798555 | -8.560174425 | -8.8904703   | 0.0416232            | 0.0741654 | 0.1393101 | 0.1025541 | -10.485984 |
| 2402000000 | 0   | -2.775073511 | -14.63939639 | -10.28654874 | -8.390199105 | -8.852824471 | 0.0343606            | 0.0936149 | 0.1448705 | 0.130232  | -9.966709  |
| 2402000000 | 0   | -2.722713633 | -15.37202547 | -9.096965598 | -8.246884303 | -8.296409217 | 0.0290267            | 0.1231129 | 0.1497309 | 0.1480332 | -9.4894044 |
| 2402000000 | 0   | -2.670353756 | -15.29981991 | -7.988444384 | -8.008161988 | -8.103101216 | 0.0295133            | 0.1589116 | 0.1581917 | 0.1547711 | -9.0188628 |
| 2402000000 | 0   | -2.617993878 | -14.34147855 | -7.103603566 | -7.63066627  | -8.127438905 | 0.0368004            | 0.1948227 | 0.1725573 | 0.1539062 | -8.5535838 |
| 2402000000 | 0   | -2.565634    | -13.14201183 | -6.471080928 | -7.161437472 | -8.210897441 | 0.0485064            | 0.2253678 | 0.1922455 | 0.1509768 | -8.1170688 |
| 2402000000 | 0   | -2.513274123 | -12.20978687 | -6.05116466  | -6.691533224 | -8.241846926 | 0.0601203            | 0.2482467 | 0.2142134 | 0.1499047 | -7.7437726 |
| 2402000000 | 0   | -2.460914245 | -11.72322482 | -5.768705873 | -6.300371063 | -8.214600593 | 0.0672477            | 0.2649289 | 0.2344029 | 0.1508481 | -7.4628188 |
| 2402000000 | 0   | -2.408554368 | -11.69006888 | -5.538576025 | -6.029379535 | -8.212501403 | 0.0677631            | 0.279346  | 0.2494951 | 0.1509211 | -7.2843414 |
| 2402000000 | 0   | -2.35619449  | -12.01364332 | -5.291838244 | -5.88036356  | -8.328940839 | 0.0628978            | 0.2956761 | 0.2582044 | 0.1469285 | -7.1913336 |
| 2402000000 | 0   | -2.303834613 | -12.45182544 | -4.995994013 | -5.823195856 | -8.599359469 | 0.0568614            | 0.3165196 | 0.2616257 | 0.1380588 | -7.1384371 |
| 2402000000 | 0   | -2.251474735 | -12.57552462 | -4.655741688 | -5.806791852 | -8.965818159 | 0.0552647            | 0.3423149 | 0.2626158 | 0.1268873 | -7.0603964 |
| 2402000000 | 0   | -2.199114858 | -12.00132377 | -4.294238587 | -5.774157456 | -9.268003269 | 0.0630765            | 0.3720284 | 0.2645966 | 0.1183586 | -6.8927478 |
| 2402000000 | 0   | -2.14675498  | -10.81234194 | -3.930838685 | -5.680618908 | -9.298988352 | 0.0829403            | 0.4044978 | 0.2703573 | 0.1175171 | -6.5989684 |
| 2402000000 | 0   | -2.094395102 | -9.41422055  | -3.569190462 | -5.507670136 | -8.957694001 | 0.11444              | 0.4396236 | 0.281341  | 0.1271249 | -6.1864598 |
| 2402000000 | 0   | -2.042035225 | -8.111217955 | -3.19778304  | -5.26344923  | -8.352570749 | 0.1544821            | 0.4788745 | 0.2976223 | 0.1461312 | -5.6979989 |
| 2402000000 | 0   | -1.989675347 | -7.021502775 | -2.798279176 | -4.969400755 | -7.705855646 | 0.1985408            | 0.5250154 | 0.3184637 | 0.1609595 | -5.1860518 |
| 2402000000 | 0   | -1.93731547  | -6.157627851 | -2.35858428  | -4.645517114 | -7.207993974 | 0.2422352            | 0.5813191 | 0.3431218 | 0.1901957 | -4.6952121 |
| 2402000000 | 0   | -1.884955592 | -5.487355573 | -1.866635328 | -4.299393108 | -6.971041406 | 0.2826601            | 0.6506336 | 0.3715404 | 0.2008611 | -4.2432293 |
| 2402000000 | 0   | -1.832595715 | -4.961448452 | -1.339434765 | -3.928923137 | -7.043858749 | 0.3190474            | 0.7346095 | 0.4046762 | 0.1975214 | -3.8303783 |
| 2402000000 | 0   | -1.780235837 | -4.526902145 | -0.792276795 | -3.522396741 | -7.427916818 | 0.3526223            | 0.8334242 | 0.444386  | 0.1808041 | -3.4412796 |
| 2402000000 | 0   | -1.72787596  | -4.136278796 | -0.246651345 | -3.071816437 | -8.064998881 | 0.3858088            | 0.9447891 | 0.4929676 | 0.1559732 | -3.05496   |
| 2402000000 | 0   | -1.675516082 | -3.755876246 | -0.27494416  | -2.576425877 | -8.819274264 | 0.4211263            | 1.0659809 | 0.552532  | 0.1312419 | -2.6542394 |
| 2402000000 | 0   | -1.623156204 | -3.370858355 | 0.764630175  | -2.045417344 | -9.381301006 | 0.4601656            | 1.1925127 | 0.6243993 | 0.1153108 | -2.2322938 |
| 2402000000 | 0   | -1.570796327 | -2.984773026 | 1.204465233  | -1.495829378 | -9.38742458  | 0.5029476            | 1.3196128 | 0.708626  | 0.1151483 | -1.7941523 |
| 2402000000 | 0   | -1.518436449 | -2.613627399 | 1.591450722  | -0.948116177 | -8.708241075 | 0.5478192            | 1.4425972 | 0.8038747 | 0.1346406 | -1.3535075 |
| 2402000000 | 0   | -1.460707652 | -2.277696109 | 1.923655898  | -0.421788615 | -7.59077127  | 0.5918755            | 1.557276  | 0.9074467 | 0.1741498 | -0.927569  |
| 2402000000 | 0   | -1.413716694 | -1.994559898 | 2.20150375   | 0.067434855  | -6.370213107 | 0.6317482            | 1.6601616 | 1.0156486 | 0.2306634 | -0.5327493 |
| 2402000000 | 0   | -1.361356817 | -1.775086476 | 2.426616927  | 0.508724023  | -5.254118739 | 0.6644944            | 1.7484841 | 1.1242746 | 0.2982553 | -0.1823705 |
| 2402000000 | 0   | -1.308996939 | -1.622298597 | 2.6008536    | 0.895897887  | -4.331401849 | 0.6882879            | 1.8200586 | 1.2291073 | 0.3688585 | -0.1139198 |
| 2402000000 | 0   | -1.256637061 | -1.53240094  | 2.725579588  | 1.226390225  | -3.629703004 | 0.7026837            | 1.8730087 | 1.3262916 | 0.4335405 | -0.3498951 |
| 2402000000 | 0   | -1.204277184 | -1.497216067 | 2.801178885  | 1.499862722  | -3.148411043 | 0.7083997            | 1.905978  | 1.4124927 | 0.4844395 | -0.5223402 |
| 2402000000 | 0   | -1.151917306 | -1.507280928 | 2.826883139  | 1.716807598  | -2.78005116  | 0.7067599            | 1.9172922 | 1.4848438 | 0.5164103 | -0.630805  |
| 2402000000 | 0   | -1.099557429 | -1.554691464 | 2.800981812  | 1.877417877  | -2.76093785  | 0.6990864            | 1.9058915 | 1.5407841 | 0.5295491 | -0.6775052 |
| 2402000000 | 0   | -1.047197551 | -1.634756886 | 2.721483398  | 1.980910991  | -2.768528442 | 0.6863163            | 1.8713214 | 1.5779422 | 0.5286243 | -0.6671577 |
| 2402000000 | 0   | -0.994837674 | -1.74589757  | 2.587232024  | 2.025402014  | -2.82256603  | 0.6689755            | 1.8143589 | 1.5941904 | 0.5220876 | -0.6066126 |
| 2402000000 | 0   | -0.942477796 | -1.887962644 | 2.399410086  | 2.008261948  | -2.848316771 | 0.6474468            | 1.7375648 | 1.5879111 | 0.5190012 | -0.5037235 |
| 2402000000 | 0   | -0.890117919 | -2.059731787 | 2.163371289  | 1.926802968  | -2.794233367 | 0.6223387            | 1.6456487 | 1.5584049 | 0.5255048 | -0.3661862 |
| 2402000000 | 0   | -0.837758041 | -2.256434104 | 1.890611196  | 1.779084522  | -2.658581163 | 0.5947803            | 1.5454722 | 1.5062893 | 0.542178  | -0.2002133 |
| 2402000000 | 0   | -0.785398163 | -2.467823031 | 1.600467674  | 1.564692044  | -2.490331183 | 0.5665232            | 1.4455954 | 1.433736  | 0.5635947 | -0.0102474 |
| 2402000000 | 0   | -0.733038286 | -2.677146892 | 1.320562158  | 1.285431862  | -2.361401297 | 0.5398652            | 1.3553648 | 1.3444455 | 0.5805771 | -1.0996792 |
| 2402000000 | 0   | -0.680678408 | -2.861672868 | 1.084379468  | 0.9459778    | -2.332245934 | 0.5174075            | 1.2836243 | 1.2433625 | 0.5844877 | -0.4228713 |
| 2402000000 | 0   | -0.628318531 | -2.995918434 | 0.924487448  | 0.554605697  | -2.242717409 | 0.5016585            | 1.2372252 | 1.1362151 | 0.5718851 | -0.6462504 |
| 2402000000 | 0   | -0.575958653 | -3.05836303  | 0.862154507  | 0.124171992  | -2.618702041 | 0.494497             | 1.2195945 | 1.0290043 | 0.5471795 | -0.8482775 |
| 2402000000 | 0   | -0.523598776 | -3.040096803 | 0.808017061  | -0.326592764 | -2.19855365  | 0.4965813            | 1.2297072 | 0.9275573 | 0.5224136 | -1.0014444 |
| 2402000000 | 0   | -0.471238898 | -2.95081455  | 1.009884404  | -0.771692089 | -2.900740963 | 0.5068956            | 1.2617939 | 0.837203  | 0.5127739 | -1.0809106 |
| 2402000000 | 0   | -0.41887902  | -2.817669764 | 1.159455136  | -1.177247391 | -2.752427438 | 0.522676             | 1.306007  | 0.7625622 | 0.5305878 | -1.0765025 |
| 2402000000 | 0   | -0.366519143 | -2.677118662 | 1.303403326  | -1.503414578 | -2.366329704 | 0.5398687            | 1.3500204 | 0.7073894 | 0.5799186 | -1.0001584 |
| 2402000000 | 0   | -0.319159265 | -2.564500925 | 1.402744437  | -1.710875864 | -2.06364213  | 0.5540512            | 1.3812568 | 0.674392  | 0.6544741 | -0.8825035 |
| 2402000000 | 0   | -0.261799388 | -2.506135639 | 1.427715909  | -1.771950534 | -1.297291482 | 0.5615474            | 1.3892218 | 0.6649744 | 0.7417727 | -0.7604185 |
| 2402000000 | 0   | -0.20943951  | -2.515587923 | 1.358879265  | -1.681789451 | -0.823882134 | 0.5032666            | 1.3673759 | 0.6789238 | 0.8263457 | -0.6638973 |
| 2402000000 | 0   | -0.157079633 | -2.593303519 | 1.186329376  | -1.462234591 | -0.466417307 | 0.5503889            | 1.3141137 | 0.7141288 | 0.8981694 | -0.6080819 |
| 2402000000 | 0   | -0.104719755 | -2.728262148 | 0.908490647  | -1.155039926 | -0.206347804 | 0.5354884            | 1.2326764 | 0.7664715 | 0.9535978 | -0.5969599 |
| 2402000000 | 0   | -0.052359878 | -2.90083484  | 0.531243999  | -0.809028342 | -0.027700306 | 0.5127628            | 1.1301196 | 0.8300365 | 0.9936421 | -0.6216116 |
| 2402000000 | 0   | -4.444-16    | -3.086593811 | 0.067566586  | -0.468566146 | 0.084566146  | 0.491293             | 1.0156794 | 0.8977065 | 1.0196629 | -0.6748287 |
| 2402000000 | 0   | 0.052359878  | -3.260935968 | -0.462433999 | -0.167777408 | 0.128873527  | 0.4719613            | 0.8989936 | 0.9621045 | 1.0301189 | -0.7531009 |
| 2402000000 | 0   | 0.104719755  | -3.403954725 | -1.031389309 | -0.071998397 | 0.0889684    | 0.4566722            | 0.7886078 | 1.0167164 | 1.020697  | -0.8582967 |
| 2402000000 | 0   | 0.157079633  | -3.504358334 | -1.604819857 | 0.240569072  | -0.054370369 | 0.4462356            | 0.6910636 | 1.056956  | 0.9875588 | -0.9938521 |
| 2402000000 | 0   | 0.20943951   | -3.560975155 | -2.142097289 | 0.337974305  | -0.309183244 | 0.440456             | 0.6106471 | 1.0809297 | 0.931283  | -1.1586824 |
| 2402000000 | 0   | 0.261799388  | -3.581100128 | -2.599061149 | 0.373165982  | -0.06089765  | 0.4384196            | 0.4956597 | 1.0897242 | 0.8588178 | -1.3421205 |
| 2402000000 | 0   | 0.314159265  | -3.576302465 | -2.933400804 | 0.362926282  | -1.066380236 | 0.4389042            | 0.5089322 | 1.0871579 | 0.7822795 | -1.5223093 |
| 2402000000 | 0   | 0.366519143  | -3.557398356 | -3.113289813 | 0.330388288  | -1.454239877 | 0.4408189            | 0.4882823 | 1.0790432 | 0.7154446 | -1.6691842 |
| 2402000000 | 0   | 0.41887902   | -3.5304227   | -3.126969505 | 0.302371604  | -1.739824961 | 0.4435655            | 0.4867467 | 1.0721046 | 0.6699116 | -1.7517016 |
| 2402000000 | 0   | 0.471238898  | -3.494791013 | -2.987821293 | 0.304971946  | -1.852702186 | 0.4472197            | 0.5025945 | 1.0727467 | 0.6527243 | -1.7468991 |
| 2402000000 | 0   | 0.523598776  | -3.444061751 | -2.730412769 | 0.357875     |              |                      |           |           |           |            |

|            |             |              |              |               |               |              |           |           |           |           |            |
|------------|-------------|--------------|--------------|---------------|---------------|--------------|-----------|-----------|-----------|-----------|------------|
| 2402000000 | 0           | 3.036872899  | -17.7630082  | -17.08098953  | -14.76028089  | -10.91703599 | 0.0167378 | 0.019584  | 0.0334173 | 0.0809648 | -14.239353 |
| 2402000000 | 0           | 3.089232776  | -20.0590709  | -22.57783725  | -16.66366773  | -13.97413048 | 0.0098649 | 0.0055235 | 0.0215592 | 0.0400486 | -17.155906 |
| 2402000000 | 0           | 3.141592654  | -20.78073494 | -20.780728074 | -16.50798677  | -18.48822255 | 0.0083546 | 0.0082465 | 0.0223461 | 0.0141637 | -18.768757 |
| 2402000000 | 0.052359878 | -3.141592654 | -20.78073517 | -20.83728098  | -16.50798663  | -18.48822245 | 0.0083546 | 0.0082465 | 0.0223461 | 0.0141637 | -18.768757 |
| 2402000000 | 0.052359878 | -3.089232776 | -18.91862207 | -16.6632106   | -14.41330405  | -25.46250838 | 0.0128274 | 0.0215615 | 0.0361968 | 0.0028428 | -16.31957  |
| 2402000000 | 0.052359878 | -3.036872899 | -16.45267466 | -14.23179929  | -12.26323807  | -23.26201044 | 0.0226235 | 0.0377146 | 0.0593837 | 0.0047184 | -15.069736 |
| 2402000000 | 0.052359878 | -2.984513021 | -14.68859055 | -12.99758528  | -10.62237945  | -17.59244876 | 0.0339736 | 0.0501466 | 0.0866487 | 0.0174083 | -13.274932 |
| 2402000000 | 0.052359878 | -2.932153143 | -13.76172184 | -12.43907838  | -9.492889125  | -14.1233481  | 0.0432056 | 0.0570285 | 0.1123857 | 0.0386959 | -12.038315 |
| 2402000000 | 0.052359878 | -2.879793266 | -13.62184859 | -12.07871115  | -8.770357819  | -11.83624667 | 0.0434325 | 0.0619625 | 0.1327285 | 0.0655202 | -11.169656 |
| 2402000000 | 0.052359878 | -2.827433388 | -14.21511485 | -11.46513613  | -8.332188313  | -10.31991304 | 0.0378869 | 0.0713652 | 0.1468186 | 0.0928985 | -10.592729 |
| 2402000000 | 0.052359878 | -2.775073511 | -15.40522094 | -10.42962677  | -8.484595822  | -9.40569829  | 0.0288057 | 0.090581  | 0.1567258 | 0.1142648 | -10.101307 |
| 2402000000 | 0.052359878 | -2.722713633 | -16.62190173 | -9.81663701   | -7.79524493   | -8.987858205 | 0.0217676 | 0.1207351 | 0.1661405 | 0.126245  | -9.6368238 |
| 2402000000 | 0.052359878 | -2.670353756 | -16.57311413 | -8.012987518  | -7.483315237  | -8.944912348 | 0.0220135 | 0.1580161 | 0.1785124 | 0.1274996 | -9.1538658 |
| 2402000000 | 0.052359878 | -2.617993878 | -14.94382226 | -7.085811922  | -7.08837122   | -9.096939848 | 0.0320345 | 0.1956225 | 0.1955073 | 0.1231136 | -8.6464641 |
| 2402000000 | 0.052359878 | -2.565634    | -12.97368046 | -6.436908952  | -6.646768122  | -9.215888301 | 0.0504234 | 0.2271481 | 0.2164329 | 0.1197874 | -8.1403895 |
| 2402000000 | 0.052359878 | -2.513274123 | -11.39803232 | -6.028878512  | -6.220000296  | -9.134355308 | 0.0724764 | 0.2495239 | 0.2387811 | 0.1220575 | -7.6774171 |
| 2402000000 | 0.052359878 | -2.460914245 | -10.35320851 | -5.782703495  | -5.858452328  | -8.871500687 | 0.092189  | 0.2640764 | 0.2595104 | 0.1296731 | -7.2964208 |
| 2402000000 | 0.052359878 | -2.408554368 | -9.800654262 | -5.59993825   | -5.584551391  | -8.594740306 | 0.1046971 | 0.2754268 | 0.2764043 | 0.1382057 | -7.0183825 |
| 2402000000 | 0.052359878 | -2.35619449  | -9.660871866 | -5.38943888   | -5.394683143  | -8.471633532 | 0.1081217 | 0.2891053 | 0.2888895 | 0.1421794 | -6.838745  |
| 2402000000 | 0.052359878 | -2.303834613 | -9.823790652 | -5.096838031  | -5.257499062  | -8.586402541 | 0.1041408 | 0.3092546 | 0.2980232 | 0.1384713 | -6.7269731 |
| 2402000000 | 0.052359878 | -2.251474735 | -10.12321258 | -4.717524195  | -5.14589435   | -8.928034809 | 0.0972028 | 0.3374796 | 0.305781  | 0.127996  | -6.6331041 |
| 2402000000 | 0.052359878 | -2.199114858 | -10.32333665 | -4.281598656  | -5.029668832  | -9.388809719 | 0.0928253 | 0.3731128 | 0.3140748 | 0.1151116 | -6.501765  |
| 2402000000 | 0.052359878 | -2.14675498  | -10.19082518 | -3.825645482  | -4.894554351  | -9.768481825 | 0.0957012 | 0.414415  | 0.3239997 | 0.1054576 | -6.2912094 |
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|            |             |              |              |              |               |              |           |           |           |           |            |
|------------|-------------|--------------|--------------|--------------|---------------|--------------|-----------|-----------|-----------|-----------|------------|
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| 2402000000 | 0.994837674 | 2.617993878  | -6.348241546 | -8.392890867 | -5.227318761  | -6.645285391 | 0.2318333 | 0.1447808 | 0.3001015 | 0.2165068 | -6.5110042 |
| 2402000000 | 0.994837674 | 2.670353756  | -6.952225161 | -7.383522215 | -5.071418367  | -5.108668129 | 0.2017332 | 0.1826618 | 0.31107   | 0.3084134 | -6.0037886 |
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| 2402000000 | 0.994837674 | 2.827433388  | -7.693534283 | -6.801858204 | -6.988986122  | -3.883763785 | 0.1700774 | 0.2088405 | 0.2000329 | 0.4089061 | -6.0736594 |
| 2402000000 | 0.994837674 | 2.879793266  | -7.937167932 | -7.54508079  | -6.557569142  | -4.615502538 | 0.1607989 | 0.1759916 | 0.2283471 | 0.3455013 | -6.8765516 |
| 2402000000 | 0.994837674 | 2.9325153143 | -8.535868912 | -8.825247092 | -10.79754839  | -5.912005855 | 0.1400977 | 0.1310615 | 0.0832233 | 0.25633   | -8.1623212 |
| 2402000000 | 0.994837674 | 2.984513021  | -9.721117606 | -10.73969779 | -13.771274041 | -7.77744341  | 0.1066322 | 0.0843393 | 0.0419636 | 0.1668229 | -10.002628 |
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| 2402000000 | 0.994837674 | 3.036872899  | -15.49427223 | -12.82641087 | -15.51113723  | -15.51113723 | 0.0422706 | 0.028221  | 0.0521626 | 0.0281116 | -14.239385 |
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| 2402000000 | 0.994837674 | 2.670353756  | -5.613924142 | -7.778284426 | -6.47137153   | -7.287723162 | 0.2745412 | 0.1667906 | 0.2253527 | 0.1867358 | -6.7089696 |
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| 2402000000 | 0.994837674 | 1.780235837  |              |              |               |              |           |           |           |           |            |

|            |             |              |              |              |              |              |           |           |           |           |             |
|------------|-------------|--------------|--------------|--------------|--------------|--------------|-----------|-----------|-----------|-----------|-------------|
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| 2402000000 | 1.361356817 | -2.408554368</ |              |              |               |               |           |           |            |           |            |

|            |             |                |              |              |              |              |           |           |           |           |             |
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| 2402000000 | 1.361356817 | 1.884955592    | -2.028904708 | -4.509025026 | -6.965125089 | -2.846158062 | 0.6267719 | 0.3540768 | 0.2011318 | 0.5192592 | -3.7128448  |
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| 2402000000 | 1.361356817 | 1.989675347    | -3.325813163 | -4.799323783 | -7.898821344 | -2.706978706 | 0.4649633 | 0.3311827 | 0.162225  | 0.5361695 | -4.2755229  |
| 2402000000 | 1.361356817 | 2.042035225    | -3.914822837 | -5.111398957 | -8.401214845 | -3.007869684 | 0.4059922 | 0.3081295 | 0.1445035 | 0.5020799 | -4.6884209  |
| 2402000000 | 1.361356817 | 2.094395102    | -4.371023483 | -5.562476745 | -8.916111745 | -3.612537691 | 0.3655086 | 0.2778128 | 0.1283479 | 0.4352575 | -5.2037903  |
| 2402000000 | 1.361356817 | 2.14675498     | -4.623065355 | -6.128218241 | -9.426023809 | -4.515819726 | 0.3449002 | 0.2438811 | 0.1141294 | 0.3535233 | -5.7821716  |
| 2402000000 | 1.361356817 | 2.199114858    | -4.641271376 | -6.755570919 | -9.912412132 | -5.659615321 | 0.3434574 | 0.210708  | 0.1020373 | 0.271668  | -6.3439943  |
| 2402000000 | 1.361356817 | 2.251474735    | -4.466013014 | -7.380970478 | -10.35151308 | -6.893890337 | 0.357601  | 0.1827692 | 0.092225  | 0.2044612 | -6.7930258  |
| 2402000000 | 1.361356817 | 2.303834613    | -4.198067278 | -7.965397416 | -10.69534035 | -7.937528825 | 0.3803586 | 0.1595751 | 0.0852033 | 0.1607856 | -7.0657961  |
| 2402000000 | 1.361356817 | 2.35619449     | -3.96203874  | -8.529160722 | -10.85043398 | -8.484010545 | 0.4016022 | 0.1403085 | 0.082216  | 0.1429549 | -7.172184   |
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| 2402000000 | 1.361356817 | 2.565634       | -5.455102505 | -11.67734926 | -8.413152301 | -6.560228124 | 0.2847671 | 0.0679618 | 0.1144069 | 0.2716297 | -7.1642356  |
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| 2402000000 | 1.361356817 | 2.932153143    | -9.106954467 | -9.223358067 | -10.28466126 | -6.498450023 | 0.12283   | 0.1195816 | 0.0936556 | 0.223952  | -8.5835706  |
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|            |             |              |              |              |              |              |           |           |           |           |            |
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| 2402000000 | 1.413716694 | 1.151917306  | 1.397487354  | -0.104233501 | -1.842687059 | 2.44288009   | 1.3795859 | 0.9762851 | 0.6537481 | 1.7900578 | 0.7915201  |
| 2402000000 | 1.413716694 | 1.204277184  | 1.426580149  | 0.015702124  | -1.835783459 | 2.328745385  | 1.3888585 | 1.0036221 | 0.6552721 | 1.7095214 | 0.7529818  |
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| 2402000000 | 2.042035225 | 0.994837674  | 1.110259852  | 2.717548473  | -2.017189009 | -2.052527169 | 1.2912965 | 1.8696265 | 0.8180524 | 0.8021217 | -0.773849  |
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| 2402000000 | 2.565634 | 1.151917306  | 2.029868737  | -0.013721333   | 0.671864411  | -2.004364547  | 1.5958309 | 0.9968455  | 1.1673106 | 0.6303236 | 0.4043526  |
| 2402000000 | 2.565634 | 1.204277184  | 1.777240392  | -0.23889146    | 0.391033901  | -0.275261731  | 1.50565   | 0.9464787  | 1.0942168 | 0.540354  | 0.0932138  |
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| 2402000000 | 2.617993878 | -0.261799388 | -8.286487342 | -1.597345561 | 1.20206171   | -1.497079933  | 0.1483718 | 0.692254  | 1.3188827 | 0.7084219 | -1.4449139 |
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| 2402000000 | 2.617993878 | -0.157079633 | -6.62058387  | -0.884064019 | 0.676383517  | -0.506933217  | 0.2177417 | 0.8518186 | 1.1685259 | 0.8898293 | -1.1183238 |
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|            |             |              |              |              |              |              |           |            |           |           |            |
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| 2402000000 | 2.827433388 | -2.251474735 | -5.186421499 | -15.75446876 | -4.557132448 | -6.53881237  | 0.3029409 | 0.0265799 | 0.3501763 | 0.2218803  | -6.4705699 |
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| 2402000000 | 2.827433388 | -0.785398163 | -2.638429345 | -0.854265122 | 2.949991202  | -2.585997858 | 0.546996  | 0.8214355 | 1.9724186 | 0.5133342  | -0.1638634 |
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| 2402000000 | 2.827433388 | -0.680678408 | -3.873473417 | -1.351600464 | 2.448638162  | -4.173155878 | 0.4098762 | 0.7325545 | 1.7566434 | 0.4095288  | -0.8241535 |
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|            |             |              |              |              |              |               |           |           |           |           |            |
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| 2403000000 | 0           | 0.157079633  | -1.507059812 | 0.491542895  | 0.903981841  | -0.37507541  | 0.7067959 | 0.8929882 | 0.2313973  | 0.917211  | -0.2821495 |
| 2403000000 | 0           | 0.20943951   | -1.628574062 | -1.05378499  | 0.963335136  | -0.683568371 | 0.6827941 | 0.7845516 | 0.2483418  | 0.8543664 | -0.4883839 |
| 2403000000 | 0           | 0.261799388  | -1.705867126 | -1.604950606 | 0.944821864  | -1.067678544 | 0.6751702 | 0.9010428 | 0.2430316  | 0.7820457 | -0.1769501 |
| 2403000000 | 0           | 0.314159265  | -1.743064112 | -2.098725037 | 0.867567901  | -1.479030683 | 0.6694121 | 0.616776  | 0.2211156  | 0.7113723 | -0.9438272 |
| 2403000000 | 0           | 0.366519143  | -1.745958571 | -2.487712615 | 0.760368568  | -1.63955006  | 0.6689622 | 0.5639346 | 0.1913431  | 0.6549294 | -1.1362587 |
| 2403000000 | 0           | 0.41887902   | -1.719113643 | -2.731195887 | 0.659314898  | -2.042186096 | 0.673114  | 0.5331881 | 0.1639424  | 0.6248581 |            |

|            |             |              |               |              |               |              |           |           |           |           |            |
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| 2443000000 | 0           | 3.089232776  | -17.52881093  | -20.57521217 | -15.71892968  | -14.47807872 | 0.0176652 | 0.0087595 | 0.0267983 | 0.0356609 | -16.532371 |
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| 2443000000 | 0.052359878 | -1.570796327 | -2.508454021  | 1.644721228  | -1.479678205  | -8.766191726 | 0.5612477 | 1.460401  | 0.7112662 | 0.1328559 | -1.4481853 |
| 2443000000 | 0.052359878 | -1.518436449 | -2.056873159  | 2.043886464  | -0.936068966  | -7.95300008  | 0.6227485 | 1.6009901 | 0.8061078 | 0.1602138 | -0.9826112 |
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|------------|-------------|---------------|--------------|--------------|--------------|---------------|-----------|-----------|-----------|-----------|-------------|
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|            |             |               |               |              |              |              |           |           |           |           |            |
|------------|-------------|---------------|---------------|--------------|--------------|--------------|-----------|-----------|-----------|-----------|------------|
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| 2443000000 | 0.942477796  | -2.14675498  | -6.89088164  | -4.734183556 | -5.751059432  | -5.041333371 | 0.2046029 | 0.3361876 | 0.2660076 | 0.3132324 | -5.5283015 |
| 2443000000 | 0.942477796  | -2.094395102 | -5.95327618  | -4.688351785 | -5.778101141  | -4.679005064 | 0.2539057 | 0.3397542 | 0.2643564 | 0.3404862 | -5.2342106 |
| 2443000000 | 0.942477796  | -2.042035225 | -5.425715246 | -4.526862021 | -5.767881786  | -4.286586734 | 0.2867005 | 0.3262656 | 0.2649792 | 0.3626113 | -4.9931196 |
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| 24         |              |              |              |              |               |              |           |           |           |           |            |

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| 2443000000 | 0.942477796 | 2.932153143 | -7.101603146  | -10.77074493 | -12.37841526  | -7.47354905  | 0.1949125 | 0.0837386 | 0.0578307 | 0.1789143  | -8.8991888 |
| 2443000000 | 0.942477796 | 2.984513021 | -8.450223278  | -12.43561838 | -9.068399492  | -9.24607409  | 0.142882  | 0.057074  | 0.0248943 | 0.1089577  | -10.657439 |
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| 2443000000 | 0.942477796 | 3.669232776 | -6.731900555  | -6.596924311 | -7.144291023  | -9.700802379 | 0.1725083 | 0.2189312 | 0.193006  | 0.1071321  | -7.6221197 |
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|------------|-------------|-------------|--------------|--------------|---------------|--------------|-----------|-----------|-----------|-----------|------------|
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| 2443000000 | 1.151917306 | -2.042035225 | -5.688062521 |               |               |              |           |            |           |           |            |

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| 2443000000 | 1.151917306 | 1.361356817 | 1.028302611  | -0.816220597 | -2.574528574 | 2.722590058  | 1.2674483 | 0.828663  | 0.5527734 | 1.8717981 | 0.5314404  |
| 2443000000 | 1.151917306 | 1.413716694 | 0.922088858  | -1.258768926 | -2.689085441 | 2.361606697  | 1.2365449 | 0.7483816 | 0.5176535 | 1.7225057 | 0.2377553  |
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|            |             |             |              |              |              |              |           |           |           |           |             |
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| 2443000000 | 1.204277184 | 1.151917306 | 0.960289564  | 0.000397965  | -2.323878404 | 0.3689577034 | 1.2491164 | 1.0003198 | 0.585615  | 2.3386096 | 1.1171881   |
| 2443000000 | 1.204277184 | 1.204277184 | 1.0403887    | 0.004551637  | -2.419490189 | 0.3585282777 | 1.2706878 | 1.0093811 | 0.5728633 | 2.2621858 | 1.0679567   |
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| 2443000000 | 1.204277184 | 1.308996939 | 1.12250467   | -0.25423584  | -2.730024496 | 0.310150939  | 1.2894424 | 0.9431366 | 0.5370016 | 2.0424437 | 0.8076393   |
| 2443000000 | 1.204277184 | 1.361356817 | 1.103032677  | -0.579170462 | -2.910859947 | 0.2791164163 | 1.2891495 | 0.8751509 | 0.5115805 | 1.9015879 | 0.8055641   |
| 2443000000 | 1.204277184 | 1.413716694 | 1.027558465  | -1.003117023 | -3.166655416 | 0.2412207947 | 1.2669394 | 0.7937583 | 0.4823191 | 1.7426926 | 0.2965274   |
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| 2443000000 | 1.204277184 | 3.141592654 | -16.53959281 | -19.21329894 | -17.12079941 | -17.73412123 | 0.022184  | 0.0119859 | 0.0194053 | 0.0168495 | -17.543347  |
| 2443000000 | 1.204277184 | 3.141592654 | -16.53959316 | -19.21329895 | -17.12079956 | -17.73412101 | 0.022184  | 0.0119859 | 0.0194053 | 0.0168495 | -17.543347  |
| 2443000000 | 1.204277184 | 3.141592654 | -16.53959281 | -19.21329894 | -17.12079941 | -17.73412123 | 0.022184  | 0.0119859 | 0.0194053 | 0.0168495 | -17.543347  |
| 2443000000 | 1.204277184 | 3.141592654 | -16.53959316 | -19.21329895 | -17.12079956 | -17.73412101 | 0.022184  | 0.0119859 | 0.0194053 | 0.0168495 | -17.543347  |
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|            |             |             |              |               |               |              |             |           |           |           |            |
|------------|-------------|-------------|--------------|---------------|---------------|--------------|-------------|-----------|-----------|-----------|------------|
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| 2443000000 | 1.256637061 | 0.628318531 | 1.51601472   | -4.40969808   | -0.6186979    | 1.93705709   | 1.4717559   | 0.3622682 | 0.868581  | 1.5825976 | 0.2404384  |
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| 2443000000 | 1.256637061 | 0.733038286 | 1.04263493   | -3.607488278  | -0.934249161  | 2.782816629  | 1.2713452   | 0.4357638 | 0.8064456 | 1.8973964 | 0.4252542  |
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| 2443000000 | 1.256637061 | 0.837758041 | 0.710098166  | -2.567801179  | -1.500532787  | 3.373207026  | 1.1776326   | 0.5353603 | 0.7078589 | 2.1743062 | 0.6196376  |
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| 2443000000 | 1.256637061 | 0.941447796 | 0.641173     | -1.514492784  | -2.126381145  | 3.713291965  | 1.1590904   | 0.705872  | 0.6128609 | 2.3514145 | 0.8197929  |
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| 2443000000 | 1.256637061 | 1.095574299 | 0.805206694  | -0.322064319  | -2.674986288  | 3.773261276  | 1.216765    | 0.9285249 | 0.5401338 | 2.3840191 | 1.0290795  |
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| 2443000000 | 1.256637061 | 1.308996939 | 1.149695114  | -0.18361836   | -2.942538658  | 3.804955038  | 1.3031563   | 0.9586583 | 0.5078625 | 2.034675  | 0.7957483  |
| 2443000000 | 1.256637061 | 1.361356817 | 1.156425225  | -0.450258135  | -3.093369433  | 2.759179522  | 1.3050902   | 0.8996512 | 0.4905272 | 1.8876347 | 0.5908127  |
| 2443000000 | 1.256637061 | 1.413716694 | 1.110552856  | -0.850427526  | -3.297614699  | 2.358567834  | 1.291386    | 0.8221617 | 0.4679921 | 1.7213009 | 0.3169534  |
| 2443000000 | 1.256637061 | 1.466076572 | 1.002976733  | -1.337803286  | -3.45533329   | 1.87541193   | 1.2597886   | 0.748856  | 0.4420452 | 1.5400726 | 0.0522711  |
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| 2443000000 | 1.256637061 | 1.570796327 | 0.589494355  | -2.469447252  | -4.10381731   | 0.6184553    | 1.1453796   | 0.566312  | 0.3887602 | 1.1952699 | -0.888794  |
| 2443000000 | 1.256637061 | 1.623156204 | 0.289108625  | -3.02713298   | -4.387528684  | 0.101364914  | 1.0683955   | 0.498065  | 0.3641222 | 0.9769301 | -1.494726  |
| 2443000000 | 1.256637061 | 1.675516082 | -0.064481869 | -3.52565363   | -4.680108435  | -0.898565171 | 0.9852622   | 0.444025  | 0.3403997 | 0.8130991 | -1.8996694 |
| 2443000000 | 1.256637061 | 1.72787596  | -0.463227822 | -3.947911579  | -5.00750883   | -1.96329672  | 0.9898293   | 0.402907  | 0.3156815 | 0.6771273 | -2.136269  |
| 2443000000 | 1.256637061 | 1.780235837 | -0.900922057 | -4.30558793   | -5.412651132  | -2.393754238 | 0.812658    | 0.341075  | 0.2875642 | 0.5757918 | -2.9092698 |
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| 2443000000 | 1.256637061 | 1.93731547  | -2.429924997 | -5.354355424  | -7.647869619  | -3.266107804 | 0.5714885   | 0.2914503 | 0.1718751 | 0.4713996 | -4.2417345 |
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| 2443000000 | 1.256637061 | 2.045302525 | -3.541749294 | -6.270382798  | -10.52706615  | -3.284309327 | 0.4421031   | 0.236027  | 0.0885715 | 0.4694281 | -5.098881  |
| 2443000000 | 1.256637061 | 2.094395102 | -3.99890012  | -6.755268902  | -12.36223156  | -3.454500843 | 0.3981255   | 0.2110926 | 0.0580466 | 0.4513879 | -5.5336475 |
| 2443000000 | 1.256637061 | 2.14675498  | -4.290209588 | -7.204655987  | -13.95763148  | -3.621666933 | 0.372373    | 0.1903419 | 0.040201  | 0.4414798 | -5.9443534 |
| 2443000000 | 1.256637061 | 2.199114858 | -4.374197261 | -7.595772196  | -14.36057193  | -3.97724583  | 0.352416    | 0.1739493 | 0.0366389 | 0.3632683 | -6.293487  |
| 2443000000 | 1.256637061 | 2.251474735 | -4.292644777 | -7.94659107   | -13.30681381  | -4.130889898 | 0.376215    | 0.1604516 | 0.0467002 | 0.350786  | -6.4947177 |
| 2443000000 | 1.256637061 | 2.303831643 | -4.149073758 | -8.315088433  | -11.677373681 | -5.949716227 | 0.3847638   | 0.1473979 | 0.0679558 | 0.2541139 | -6.7053027 |
| 2443000000 | 1.256637061 | 2.35619449  | -4.056639956 | -8.774315986  | -10.12613056  | -6.33896026  | 0.3929488   | 0.1326076 | 0.0971375 | 0.2170753 | -6.7900023 |
| 2443000000 | 1.256637061 | 2.408554368 | -4.100532229 | -9.375865878  | -8.827075662  | -6.993708037 | 0.3889975   | 0.1154552 | 0.1310064 | 0.199815  | -6.8023075 |
| 2443000000 | 1.256637061 | 2.460914245 | -4.328572921 | -10.10976956  | -7.780795175  | -6.945479984 | 0.3690989   | 0.0975041 | 0.1666942 | 0.2020468 | -6.8019463 |
| 2443000000 | 1.256637061 | 2.513274213 | -4.752080775 | -10.85842128  | -6.960079415  | -6.928132777 | 0.334805    | 0.0827661 | 0.2013687 | 0.2193805 | -6.7742881 |
| 2443000000 | 1.256637061 | 2.565634    | -3.939004233 | -11.38083064  | -6.35383153   | -6.127868248 | 0.294283    | 0.0727664 | 0.2313557 | 0.2319008 | -6.7742813 |
| 2443000000 | 1.256637061 | 2.617993878 | -5.993554988 | -11.44225389  | -5.975146365  | -5.712309058 | 0.251567    | 0.0717422 | 0.2526303 | 0.2683917 | -6.7554991 |
| 2443000000 | 1.256637061 | 2.670353756 | -6.545151605 | -11.05933681  | -5.858053182  | -4.947180824 | 0.2215567   | 0.0783549 | 0.2595353 | 0.285287  | -6.7534007 |
| 2443000000 | 1.256637061 | 2.722713633 | -6.814691375 | -10.50334099  | -6.052738153  | -4.393378833 | 0.208224    | 0.0809566 | 0.2481568 | 0.2888432 | -6.8074786 |
| 2443000000 | 1.256637061 | 2.775073511 | -6.773620146 | -10.546710154 | -6.624949685  | -5.595447705 | 0.2102026   | 0.0985893 | 0.2157229 | 0.2757054 | -6.978747  |
| 2443000000 | 1.256637061 | 2.827433388 | -6.610675652 | -9.915678025  | -6.915678025  | -6.097016244 | 0.218239    | 0.1019606 | 0.1713123 | 0.2456396 | -7.3450327 |
| 2443000000 | 1.256637061 | 2.879793266 | -6.605450791 | -10.16307264  | -9.290121533  | -6.948100489 | 0.2185018   | 0.0963147 | 0.1177573 | 0.2019249 | -7.9962924 |
| 2443000000 | 1.256637061 | 2.932153143 | -7.006103539 | -10.86753406  | -11.70449369  | -8.211501782 | 0.199246    | 0.081893  | 0.0675384 | 0.1905958 | -9.0340875 |
| 2443000000 | 1.256637061 | 2.984513021 | -8.024720231 | -12.09336832  | -15.18440402  | -9.964783751 | 0.1575898   | 0.0617537 | 0.0303089 | 0.1008142 | -10.574135 |
| 2443000000 | 1.256637061 | 3.036872899 | -8.99728369  | -13.92317087  | -19.4262036   | -12.28478826 | 0.1023933   | 0.0405213 | 0.0113183 | 0.059091  | -12.730206 |
| 2443000000 | 1.256637061 | 3.089232776 | -12.9122455  | -16.41847894  | -20.14261403  | -15.12338181 | 0.0511417   | 0.0228114 | 0.0097171 | 0.0307375 | -15.436045 |
| 2443000000 | 1.256637061 | 3.141592654 | -16.53959281 | -19.21329894  | -17.12079994  | -17.73412123 | 0.022184    | 0.0119859 | 0.0194053 | 0.0168495 | -17.543347 |
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| 2443000000 | 1.256637061 | 2.775073511 | -7.109780056 | -11.08168199  | -12.5688719   | -12.33544794 | 0.1945459   | 0.0779528 | 0.0553494 | 0.0584057 | -10.157833 |
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| 2443000000 | 1.256637061 | 2.670353756 | -10.19535883 | -10.29751432  | -9.909023878  | -9.75760409  | 0.0956014   | 0.0933789 | 0.1021169 | 0.0839923 | -10.279251 |
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|------------|-------------|--------------|--------------|--------------|--------------|--------------|-----------|-----------|-----------|------------|------------|
| 2443000000 | 1.308996939 | 0.366519143  | 2.268534364  | -3.361341936 | -0.605084137 | 0.215755926  | 1.685984  | 0.4611751 | 0.8699446 | 1.0509344  | 0.07325    |
| 2443000000 | 1.308996939 | 0.41187902   | 2.198139472  | -3.877571827 | -0.592703847 | 0.393291889  | 1.6588761 | 0.4094895 | 0.872248  | 1.0947859  | 0.0384592  |
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| 2443000000 | 1.308996939 | 0.73038286   | 0.897494811  | -3.514585003 | -1.067356922 | 1.2295593    | 1.2295593 | 0.445186  | 0.7821036 | 1.8083102  | 0.2787525  |
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| 2443000000 | 1.308996939 | 0.994837674  | 0.647600621  | -1.228692824 | -2.76721038  | 3.644246254  | 1.1608071 | 0.7535823 | 0.5287848 | 2.3143265  | 0.7531887  |
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| 2443000000 | 1.308996939 | 1.204277184  | 1.025833228  | -0.108241595 | -3.033076107 | 3.440407072  | 1.2664362 | 0.9753845 | 0.4973847 | 2.0821117  | 0.9231853  |
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| 2443000000 | 1.570796327 | 2.827433388  | -8.354039875 | -8.554605533 | -8.375772498 | -8.509747012 | 0.1460818 | 0.1394888 | 0.1453526 | 0.1409371 | -8.4477006 |
| 2443000000 | 1.570796327 | 2.879793266  | -7.811047736 | -9.077316152 | -9.347338942 | -9.305833402 | 0.1655371 | 0.1236711 | 0.116216  | 0.1173321 | -8.8376072 |
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| 2443000000 | 1.832595715 | 0.261799388  | 2.375652015  | -0.59748148  | -1.310947365  | -0.75790248  | 1.7280854 | 0.8714688 | 0.739444  | 0.8364134 | 0.186393   |
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| 2443000000 | 1.832595715 | 1.099557429  | 0.812288557  | 2.642037973  | -0.6790024    | 0.253859448  | 1.2056711 | 1.8374004 | 0.8552631 | 1.0601955 | 0.9329296  |
| 2443000000 | 1.832595715 | 1.151917306  | 0.810875807  | 2.531519025  | -0.715432284  | 0.254521477  | 1.205279  | 1.7912323 | 0.848119  | 1.0579183 | 0.8836191  |
| 2443000000 | 1.832595715 | 1.204277184  | 0.786313901  | 2.366913727  | -0.827501532  | 0.185253371  | 1.1984817 | 1.7246119 | 0.8265133 | 1.043579  | 0.7856248  |
| 2443000000 | 1.832595715 | 1.256637061  | 0.734859673  | 2.147612039  | -0.616513588  | 0.145868641  | 1.1843661 | 1.6396879 | 0.7913136 | 1.0173226 | 0.6377327  |
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| 2443000000 | 1.832595715 | 2.82743338   |              |              |               |              |           |           |           |           |            |

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| 2443000000 | 1.884955592 | 2.722713633  |              |              |               |              |           |            |           |           |            |

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| 2443000000 | 1.93731547 | 1.413716694  | 0.002190676  | 1.354395187  | -2.414390525 | -0.100300252 | 1.0005045 | 1.3659648  | 0.5735363 | 0.9765618 | -0.0915437 |
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| 2443000000 | 1.93731547 | 1.518436449  | -0.259922297 | 0.435933476  | -3.251261366 | -0.438505863 | 0.9419064 | 1.1055881  | 0.4730138 | 0.9039604 | -0.6746678 |
| 2443000000 | 1.93731547 | 1.570796327  | -0.422517924 | -0.172841265 | -0.576317805 | -0.638419419 | 0.9072944 | 1.0609834  | 0.4302176 | 0.8632927 | -0.1021272 |
| 2443000000 | 1.93731547 | 1.623156204  | -0.606407169 | -0.916187158 | -0.47087552  | -0.878386486 | 0.8696796 | 0.8098065  | 0.3916629 | 0.8168858 | -1.4145576 |
| 2443000000 | 1.93731547 | 1.675516082  | -0.810925891 | -1.824415234 | -4.493665501 | -1.180755202 | 0.8296739 | 0.6569896  | 0.3553313 | 0.7619465 | -1.8642881 |
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| 2443000000 | 1.93731547 | 1.780235837  | -1.310596969 | -4.21847668  | -5.252095545 | -2.0751469   | 0.7395036 | 0.3785753  | 0.280408  | 0.6201337 | -2.9700528 |
| 2443000000 | 1.93731547 | 1.832595715  | -1.646667643 | -5.629371824 | -6.204630007 | -2.709077832 | 0.6844366 | 0.2735664  | 0.2396277 | 0.5359104 | -3.6312583 |
| 2443000000 | 1.93731547 | 1.884955592  | -2.082968734 | -6.889020751 | -7.330971308 | -3.470741368 | 0.6190178 | 0.2406906  | 0.1979716 | 0.4497031 | -4.343244  |
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| 2443000000 | 1.93731547 | 2.14675498   | -5.876424966 | -4.569456028 | -10.07548436 | -5.798149873 | 0.2584387 | 0.349184   | 0.0982769 | 0.2631389 | -6.1571895 |
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| 2443000000 | 1.93731547 | 2.251474735  | -5.958619958 | -4.14832605  | -8.650527113 | -4.90747762  | 0.2535934 | 0.38474    | 0.1364418 | 0.323037  | -5.6153193 |
| 2443000000 | 1.93731547 | 2.303834613  | -5.497181433 | -4.460388928 | -7.901137251 | -4.601446274 | 0.2820213 | 0.3580464  | 0.1621385 | 0.3466214 | -5.4179833 |
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| 2443000000 | 1.93731547 | 2.513274123  | -6.121612442 | -6.676601297 | -6.661814645 | -6.180408747 | 0.2442524 | 0.2129452  | 0.2476748 | 0.2409679 | -6.253221  |
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| 2443000000 | 1.989675347 | 0.785398163  | 1.251194682  | 2.4483909    | -1.761600044  | -1.007033065  | 1.3338883 | 1.7578552 | 0.6666532 | 0.7930429 | 0.5608879  |
| 2443000000 | 1.989675347 | 0.837758041  | 1.057110707  | 2.611635156  | -1.398789428  | -0.700397393  | 1.2755899 | 1.8245825 | 0.7246379 | 0.8510602 | 0.6780249  |
| 2443000000 | 1.989675347 | 0.890117919  | 0.865430151  | 2.717090679  | -1.116368766  | -0.415868612  | 1.2205147 | 1.8694294 | 0.7732669 | 0.9086845 | 0.766364   |
| 2443000000 | 1.989675347 | 0.942477796  | 0.691711029  | 2.769243652  | -0.9276459    | -0.1645491803 | 1.1726573 | 1.8920141 | 0.8076729 | 0.9628105 | 0.8235039  |
| 2443000000 | 1.989675347 | 0.994837674  | 0.546297768  | 2.770918906  | -0.834692365  | 0.044802605   | 1.1340437 | 1.8927347 | 0.8251459 | 1.0103696 | 0.8478022  |
| 2443000000 | 1.989675347 | 1.047197551  | 0.430262143  | 2.724613055  | -0.832723557  | 0.206521593   | 1.1041453 | 1.8726702 | 0.8255201 | 1.0486282 | 0.8376804  |
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| 2443000000 | 1.989675347 | 1.256637061  | 0.102362484  | 2.118837588  | -1.565249865  | 0.355429865   | 1.0238498 | 1.62886   | 0.6969938 | 1.085283  | 0.4483232  |
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| 2443000000 | 1.989675347 | 1.623156204  | -0.824273784 | -0.710447765 | -3.928797694  | -0.780972237  | 0.8271278 | 0.8409029 | 0.4046879 | 0.8492321 | -1.3517285 |
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|------------|-------------|--------------|---------------|--------------|--------------|--------------|-----------|-----------|-----------|-----------|------------|
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| 2443000000 | 2.042035225 | -0.994837674 | 2.834956569   | 1.157021558  | 0.790890426  | 3.036371385  | 1.9208598 | 1.3052754 | 1.1997453 | 2.0120474 | 2.0668578  |
| 2443000000 | 2.042035225 | -0.942477796 | 2.736435115   | 1.043038755  | 0.872022864  | 2.948968036  | 1.8777748 | 1.2714634 | 1.2223689 | 1.9719541 | 2.0027315  |
| 2443000000 | 2.042035225 | -0.890117919 | 2.441390449   | 0.808534722  | 0.972786934  | 2.808832338  | 1.7544421 | 1.2046294 | 1.2380229 | 1.9093398 | 1.837277   |
| 2443000000 | 2.042035225 | -0.837758041 | 1.952610118   | 0.462993097  | 0.963346545  | 2.612099427  | 1.5676931 | 1.1124982 | 1.2483451 | 1.8247767 | 1.5785807  |
| 2443000000 | 2.042035225 | -0.785398163 | 1.276185444   | 0.030346261  | 0.987204975  | 2.355652189  | 1.3415861 | 1.007012  | 1.2552219 | 1.7201456 | 1.2417525  |
| 2443000000 | 2.042035225 | -0.733038286 | 0.422210136   | -0.44671007  | 1.005467825  | 2.038483234  | 1.1021    | 0.9022544 | 1.2605114 | 1.5989995 | 0.8492155  |
| 2443000000 | 2.042035225 | -0.680678408 | -0.593947831  | -0.904480042 | 1.026399918  | 1.663499918  | 0.8721782 | 0.8112952 | 1.2658842 | 1.4667294 | 0.4309558  |
| 2443000000 | 2.042035225 | -0.628318531 | -1.75101463   | -1.266383717 | 1.047452901  | 1.239682514  | 0.6681878 | 0.7470706 | 1.2727564 | 1.3303572 | 0.1099014  |
| 2443000000 | 2.042035225 | -0.575958653 | -3.022418459  | -1.459193166 | 1.079615256  | 0.784361499  | 0.4986068 | 0.7146291 | 1.282217  | 1.197943  | 0.3463414  |
| 2443000000 | 2.042035225 | -0.523598776 | -4.375139819  | -1.444853955 | 1.122160134  | 0.32499692   | 0.3651624 | 0.7166925 | 1.2948397 | 1.0777045 | -0.6364977 |
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| 2443000000 | 2.042035225 | 0.523598776  | 2.209466494   | 1.015352264  | -3.292667803 | -2.446999044 | 1.6632083 | 1.2633836 | 0.4685255 | 0.5688924 | 0.0392528  |
| 2443000000 | 2.042035225 | 0.575958653  | 2.043291708   | 1.380635136  | -3.270981632 | -2.392906696 | 1.6007709 | 1.3744229 | 0.4708709 | 0.5763806 | 0.0241072  |
| 2443000000 | 2.042035225 | 0.628318531  | 1.879520466   | 1.71912151   | -2.898927296 | -2.177212343 | 1.5415302 | 1.4856351 | 0.4954533 | 0.6001059 | 0.1312432  |
| 2443000000 | 2.042035225 | 0.680678408  | 1.712410883   | 2.011757273  | -2.679839918 | -1.953977543 | 1.4833413 | 1.5891896 | 0.5395305 | 0.6376792 | 0.2630244  |
| 2443000000 | 2.042035225 | 0.733038286  | 1.532054322   | 2.248590692  | -2.241814346 | -1.635540905 | 1.4230017 | 1.6269093 | 0.5967859 | 0.6861924 | 0.3983427  |
| 2443000000 | 2.042035225 | 0.785398163  | 1.33318405    | 2.426753164  | -1.813169494 | -1.292998087 | 1.3593097 | 1.748539  | 0.656893  | 0.7425064 | 0.5202487  |
| 2443000000 | 2.042035225 | 0.837758041  | 1.119889286   | 2.547890441  | -1.85812939  | -0.950989081 | 1.2941628 | 1.7979973 | 0.7163887 | 0.8033431 | 0.1618194  |
| 2443000000 | 2.042035225 | 0.890117919  | 0.904552156   | 2.61561397   | -1.177848862 | -0.628499626 | 1.231559  | 1.8627198 | 0.7624566 | 0.8652686 | 0.6870171  |
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| 2443000000 | 2.042035225 | 1.151917306  | 0.158649025   | 2.270003227  | -1.271177923 | 0.322158506  | 1.0372057 | 1.6865543 | 0.7462463 | 1.0770004 | 0.556566   |
| 2443000000 | 2.042035225 | 1.204277184  | 0.075386768   | 2.062594069  | -1.505470634 | 0.358004343  | 1.01751   | 1.616687  | 0.7070546 | 1.0859265 | 0.44067    |
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| 2443000000 | 2.042035225 | 1.361356817  | -0.146278728  | 1.3724950721 | -2.418469021 | 0.221605062  | 0.966879  | 1.3716696 | 0.572998  | 1.0523618 | -0.0393639 |
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|------------|-------------|--------------|--------------|--------------|---------------|--------------|-----------|-----------|-----------|-----------|------------|
| 2443000000 | 2.094395102 | -1.204277184 | 1.194042503  | 0.334558852  | -0.028903954  | 2.709823024  | 1.3164496 | 1.0800799 | 0.9933667 | 1.8663036 | 1.1861188  |
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| 2443000000 | 2.094395102 | -0.785398163 | 1.003952975  | 0.05974538   | 1.069151527   | 2.134750485  | 1.2600718 | 1.0138519 | 1.2791314 | 1.6348392 | 1.1293113  |
| 2443000000 | 2.094395102 | -0.733038286 | 0.154500354  | -0.427680153 | 1.113509525   | 1.826411158  | 1.0362154 | 0.9062165 | 1.2922631 | 1.5227939 | 0.7531779  |
| 2443000000 | 2.094395102 | -0.680678408 | -0.850676569 | -0.912697787 | 1.148861721   | 1.459604262  | 0.8221146 | 0.8104575 | 1.3028253 | 1.3994598 | 0.3491479  |
| 2443000000 | 2.094395102 | -0.628318531 | -1.991107404 | -1.316601472 | 1.178485764   | 1.04293035   | 0.6322506 | 0.7384819 | 1.3117343 | 1.2714317 | -0.0503447 |
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| 2443000000 | 2.408554368 | 0.104719755  | 0.736290488  | -0.785909977 | -0.650934619 | -0.357572044 | 1.1847564 | 1.1983702 | 0.8608067 | 0.9209643 | 0.1754433  |
| 2443000000 | 2.408554368 | 0.151079633  | 0.1734605362 | 0.676169832  | -1.108892066 | -0.659163251 | 1.3723363 | 1.1684684 | 0.7746594 | 0.859179  | 0.1855936  |
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|            |             |              |              |              |              |               |           |           |           |           |            |
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| 2443000000 | 2.513274123 | 0.41887902   | 2.749395728  | 0.751996424  | -2.774447203 | -2.472459976  | 1.883387  | 1.1980487 | 0.5279044 | 0.5659186 | -0.1768625 |
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| 2443000000 | 2.513274123 | 0.8375758041 | 2.492493305  | 0.592474109  | 0.159665365  | -0.78170334   | 1.7752083 | 1.1461657 | 1.0374485 | 0.8532754 | -0.7864691 |
| 2443000000 | 2.513274123 | 0.890117919  | 2.480632517  | 0.408359636  | 0.443495221  | -0.556993606  | 1.7703668 | 1.0985908 | 1.1075148 | 0.8796312 | -0.8422795 |
| 2443000000 | 2.513274123 | 0.942477796  | 2.487421505  | 0.214965930  | 0.613150813  | -0.428694246  | 1.7731364 | 1.0507432 | 1.1516356 | 0.906005  | -0.864951  |
| 2443000000 | 2.513274123 | 0.994837674  | 2.500407327  | 0.018211528  | 0.669022521  | -0.404042155  | 1.7784462 | 1.0042022 | 1.166547  | 0.9111624 | -0.8460255 |
| 2443000000 | 2.513274123 | 1.047197551  | 2.503780293  | 0.177937272  | 0.481821554  | -0.481821554  | 1.779828  | 0.9598564 | 1.1527351 | 0.8949893 | -0.7804052 |
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|            |          |              |              |              |              |              |           |           |           |           |            |
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| 2443000000 | 2.565634 | -0.314159265 | -6.788018358 | -1.277820492 | 1.505021188  | -1.992616564 | 0.2095068 | 0.7451058 | 1.4145592 | 0.6320309 | -1.2476466 |
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| 2443000000 | 2.565634 | 0.157079633  | 1.138128615  | 0.83664252   | -1.113134706 | -0.693532307 | 1.2996095 | 1.2124512 | 0.773903  | 0.8524065 | 0.1476934  |
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| 2443000000 | 2.565634 | 0.314159265  | 2.311545366  | 0.642406678  | -2.271512882 | -1.637708404 | 1.7027643 | 1.1594197 | 0.5927188 | 0.6540774 | 0.1167406  |
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| 2443000000 | 2.565634 | 0.523598776  | 2.750846266  | 0.868240359  | -2.3532878   | -2.352059152 | 1.8840162 | 1.2213047 | 0.5816627 | 0.5818273 | 0.2824692  |
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| 2484000000 | 1.518436449 | 0.41887902   | 1.612929827  | -1.456395785 | -0.294784993  | 0.270975685  | 1.4497496 | 0.7150895 | 0.9343756 | 1.0643821 | 0.1740868   |
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| 2484000000 | 1.518436449 | 0.8375758041 | 0.520870001  | 0.153393451  | -0.805797762  | 1.272785358  | 1.1274233 | 1.0359513 | 0.8306541 | 1.3054927 | 0.577632    |
| 2484000000 | 1.518436449 | 0.890117919  | 0.839291338  | 0.38208975   | -0.115556894  | 2.287731252  | 1.2131909 | 1.0809881 | 0.7670864 | 1.6934529 | 0.750648    |
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| 2484000000 | 1.518436449 | 1.518436449  | 0.823053543  | -1.972893694 | -5.527861474  | 0.651609209  | 1.2086634 | 0.6349078 | 0.280036  | 1.161879  | -0.8546035  |
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| 2484000000 | 1.518436449 | 1.675516082  | 0.337939452  | -3.13676042  | -8.4835362442 | -1.541094574 | 1.080921  | 0.4856506 | 0.1417894 | 0.7012785 | -2.2010771  |
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| 2484000000 | 1.518436449 | 1.832595715  | -0.415827422 | -4.996419038 | -12.96827537  | -3.917649382 | 0.9086932 | 0.3164886 | 0.0504862 | 0.4057281 | -3.7638998  |
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|            |             |              |              |              |               |              |           |           |           |           |            |
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|            |             |              |              |              |               |              |           |           |           |           |             |
|------------|-------------|--------------|--------------|--------------|---------------|--------------|-----------|-----------|-----------|-----------|-------------|
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| 5170000000 | 1.518436449 | 1.832595715  | -3.823507608 | -5.361484193 | -3.676450181  | -1.32034841  | 0.414619  | 0.2909723 | 0.4288989 | 0.4874853 | -3.9201571  |
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|            |             |              |              |              |              |              |           |           |           |           |            |
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