**Appendix 1 to Annex 2.4**

In the following 3 tables default values for receivers, transmitters and for antennas are defined :

Table 1. : DEFAULT RANGES FOR RECEIVER NOISE POWER LEVELS

Table 2. : DEFAULT VALUES OF TRANSMITTER SPECTRUM MASKS AND RECEIVER SELECTIVITY MASKS

Table 3. : DEFAULT VALUES FOR COPOLAR AND CROSSPOLAR ANTENNA RADIATION PATTERN

Table 1. : DEFAULT RANGES FOR RECEIVER NOISE POWER LEVELS

Rx noise power level FkTB (9H)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Frequency, MHz | B MHz | Bandwidth, MHz | Min. | Max: |
| 1350-1517 | 0.025 | B<=0.025 | -163 | -148 |
| 0.075 | 0.025<B<=0.075 | -158 | -130 |
| 0.25 | 0.075<B<=0.25 | -151 | -130 |
| 0.5 | 0.25<B<=0.5 | -147 | -130 |
| 1 | 0.5<B<=1 | -144 | -130 |
| 2 | 1<B<=2 | -141 | -129 |
| 3.5 | 2<B | -139 | -127 |
| 2025-2290 | 0.5 | B<=0.5 | -147 | -135 |
| 1 | 0.5<B<=1 | -144 | -132 |
| 1.75 | 1<B<=1.75 | -142 | -130 |
| 2 | 1.75<B<=2 | -141 | -129 |
| 3.5 | 2<B<=3.5 | -139 | -127 |
| 7 | 3.5<B<=7 | -136 | -124 |
| 14 | 7<B | -135 | -121 |
| 3400-3600 | 1.75 | B<=1.75 | -142 | -130 |
| 3.5 | 1.75<B<=3.5 | -139 | -127 |
| 7 | 3.5<B<=7 | -136 | -124 |
| 14 | 7<B<=14 | -133 | -121 |
| 28 | 14<B | -130 | -118 |
| 3600-4200 | 1.75 | B<=1.75 | -144 | -130 |
| 3.5 | 1.75<B<=3.5 | -139 | -127 |
| 7 | 3.5<B<=7 | -136 | -124 |
| 14 | 7<B<=14 | -133 | -121 |
| 14.5 | 14<B<=14.5 | -132 | -121 |
| 15 | 14.5<B<=15 | -132 | -120 |
| 29 | 15<B<=29 | -129 | -118 |
| 30 | 29<B<=30 | -129 | -117 |
| 40 | 30<B | -128 | -116 |
| 5925-6425 | 29.65 | Every B | -129 | -117 |
| 6425-7125 | 20 | B<=20 | -131 | -119 |
| 40 | 20<B | -128 | -116 |
| 7125-7725 | 1.75 | B<=1.75 | -142 | -130 |
| 3.5 | 1.75<B<=3.5 | -139 | -127 |
| 7 | 3.5<B<=7 | -136 | -124 |
| 14 | 7<B<=14 | -133 | -121 |
| 28 | 14<B | -130 | -118 |
| 7725-8275 | 7 | B<=7 | -136 | -124 |
| 14 | 7<B<=14 | -133 | -121 |
| 29.65 | 14<B | -129 | -117 |
| 8275-8500 | 7 | B<=7 | -136 | -124 |
| 14 | 7<B<=14 | -133 | -121 |
| 28 | 14<B | -130 | -118 |
| 10000-10680 | 3.5 | B<=3.5 | -139 | -127 |
| 7 | 3.5<B<=7 | -136 | -124 |
| 14 | 7<B<=14 | -135 | -121 |
| 28 | 14<B<=28 | -130 | -118 |
| 10700-11700 | 40 | Every B | -128 | -116 |
| 12750-13250 | 1.75 | B<=1.75 | -142 | -130 |
| 3.5 | 1.75<B<=3.5 | -139 | -127 |
| 7 | 3.5<B<=7 | -136 | -124 |
| 14 | 7<B<=14 | -133 | -121 |
| 28 | 14<B | -130 | -118 |
| 14500-15350 | 1.75 | B<=1.75 | -142 | -130 |
| 3.5 | 1.75<B<=3.5 | -139 | -127 |
| 7 | 3.5<B<=7 | -136 | -124 |
| 14 | 7<B<=14 | -136 | -121 |
| 28 | 14<B | -130 | -118 |
| 17700-19700 | 13.75 | B<=13.75 | -133 | -121 |
| 27.5 | 13.75<B<=27.5 | -130 | -118 |
| 55 | 27.5<B | -127 | -115 |
| 22000-23600 | 3.5 | B<=3.5 | -139 | -127 |
| 7 | 3.5<B<=7 | -136 | -124 |
| 14 | 7<B<=14 | -133 | -121 |
| 28 | 14<B<=28 | -133 | -118 |
| 56 | 28<B | -127 | -115 |
| 24500-29500 | 3.5 | B<=3.5 | -139 | -127 |
| 7 | 3.5<B<=7 | -136 | -124 |
| 14 | 7<B<=14 | -133 | -121 |
| 28 | 14<B<=28 | -130 | -118 |
| 56 | 28<B | -127 | -115 |
| 31800-33400 | 3.5 | B<=3.5 | -139 | -127 |
| 7 | 3.5<B<=7 | -136 | -124 |
| 14 | 7<B<=14 | -133 | -121 |
| 28 | 14<B<=28 | -130 | -102 |
| 56 | 28<B | -127 | -115 |
| 37000-39500 | 3.5 | B<=3.5 | -139 | -126 |
| 7 | 3.5<B<=7 | -136 | -123 |
| 14 | 7<B<=14 | -133 | -120 |
| 28 | 14<B<=28 | -130 | -117 |
| 56 | 28<B | -127 | -114 |

Table 2. DEFAULT VALUES OF TRANSMITTER SPECTRUM MASKS AND RECEIVER SELECTIVITY MASKS

| **Frequency band, system and class** | | | | | |  | **TX MASKS** | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Band | System | Equipment Class | Channel  Separation | | | Netto-Bitrate | f1 (MHz) | a1 (dB) | f2 (MHz) | a2 (dB) | f3 (MHz) | a3 (dB) | f4 (MHz) | a4 (dB) | f5 (MHz) | a5 (dB) | f6 (MHz) | a6 (dB) |
| MHz |  | Field 7G1 | MHz | | | (Mbit/s) |  |  |  |  |  |  |  |  |  |  |  |  |
| 1350 - 1517 | A1 | 2 | 0.025 |  |  | 0.032 | 0.01102 | 0.0 | 0.01224 | 2.0 | 0.01273 | 6.9 | 0.01322 | 16.1 | 0.01371 | 28.0 | 0.040 | 48.0 |
| 1350 - 1517 | A1 | 2 | 0.075 |  |  | 0.096 | 0.03305 | 0.0 | 0.03672 | 2.0 | 0.03819 | 6.9 | 0.03966 | 16.1 | 0.04114 | 28.0 | 0.120 | 48.0 |
| 1350 - 1517 | A1 | 2 | 0.250 |  |  | 0.325 | 0.06280 | 0.0 | 0.10644 | 2.0 | 0.12453 | 7.1 | 0.13837 | 13.6 | 0.15258 | 28.0 | 0.400 | 48.0 |
| 1350 - 1517 | A1 | 2 | 0.500 |  |  | 0.650 | 0.12560 | 0.0 | 0.21288 | 2.0 | 0.24906 | 7.1 | 0.27674 | 13.6 | 0.30515 | 28.0 | 0.800 | 48.0 |
| 1350 - 1517 | A1 | 2 | 1.000 |  |  | 1.3 | 0.25119 | 0.0 | 0.42575 | 2.0 | 0.49813 | 7.1 | 0.55348 | 13.6 | 0.61031 | 28.0 | 1.600 | 48.0 |
| 1350 - 1517 | A1 | 2 | 2.000 |  |  | 2.6 | 0.50239 | 0.0 | 0.85150 | 2.0 | 0.99626 | 7.1 | 1.10695 | 13.6 | 1.22062 | 28.0 | 3.200 | 48.0 |
| 1350 - 1517 | UM | 2 | 3.500 |  |  | 4.0 | 1.03180 | 0.0 | 1.54000 | 2.0 | 1.72480 | 6.4 | 1.87880 | 11.7 | 2.08320 | 24.0 | 6.000 | 46.0 |
| 1350 - 1517 | A1 | 4L | 0.025 |  |  | 0.064 | 0.00708 | 0.0 | 0.01056 | 2.0 | 0.01214 | 7.6 | 0.01331 | 15.6 | 0.01429 | 33.0 | 0.040 | 56.0 |
| 1350 - 1517 | A1 | 4L | 0.075 |  |  | 0.190 | 0.02038 | 0.0 | 0.03135 | 2.0 | 0.03637 | 7.7 | 0.04013 | 16.1 | 0.04307 | 33.0 | 0.120 | 56.0 |
| 1350 - 1517 | A1 | 4L | 0.250 |  |  | 0.650 | 0.07508 | 0.0 | 0.10725 | 2.0 | 0.12227 | 7.8 | 0.13299 | 16.1 | 0.14193 | 33.0 | 0.400 | 56.0 |
| 1350 - 1517 | A1 | 4L | 0.500 |  |  | 1.3 | 0.15015 | 0.0 | 0.21450 | 2.0 | 0.24453 | 7.8 | 0.26598 | 16.1 | 0.28385 | 33.0 | 0.800 | 56.0 |
| 1350 - 1517 | A1 | 4L | 1.000 |  |  | 2.6 | 0.30030 | 0.0 | 0.42900 | 2.0 | 0.48906 | 7.8 | 0.53196 | 16.1 | 0.56770 | 33.0 | 1.600 | 56.0 |
| 1350 - 1517 | A1 | 4L | 2.000 |  |  | 5.2 | 0.60060 | 0.0 | 0.85800 | 2.0 | 0.97812 | 7.8 | 1.06392 | 16.1 | 1.13540 | 33.0 | 3.200 | 56.0 |
| 1350 - 1517 | UM | 4L | 3.500 |  |  | 8.0 | 1.45960 | 0.0 | 1.64000 | 2.0 | 1.72200 | 7.6 | 1.77120 | 13.5 | 1.85540 | 29.0 | 7.000 | 56.0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2025 - 2670 | A2 | 2 | 0.50 |  |  | 0.65 | 0.12560 | 0.0 | 0.21288 | 2.0 | 0.24906 | 7.1 | 0.27674 | 13.6 | 0.30515 | 28.0 | 0.800 | 48.0 |
| 2025 - 2670 | A2 | 2 | 1.00 |  |  | 1.3 | 0.25119 | 0.0 | 0.42575 | 2.0 | 0.49813 | 7.1 | 0.55348 | 13.6 | 0.61031 | 28.0 | 1.600 | 48.0 |
| 2025 - 2670 | A2 | 2 | 2.00 |  |  | 2.6 | 0.50239 | 0.0 | 0.85150 | 2.0 | 0.99626 | 7.1 | 1.10695 | 13.6 | 1.22062 | 28.0 | 3.200 | 48.0 |
| 2025 - 2670 | UM | 2 | 1.75 |  |  | 2.0 | 0.56880 | 0.0 | 0.79000 | 2.0 | 0.86900 | 6.3 | 0.94010 | 12.0 | 1.02870 | 24.0 | 3.000 | 46.0 |
| 2025 - 2670 | UM | 2 | 3.50 |  |  | 4.0 | 1.03180 | 0.0 | 1.54000 | 2.0 | 1.72480 | 6.4 | 1.87880 | 11.7 | 2.08320 | 24.0 | 6.000 | 46.0 |
| 2025 - 2670 | UM | 2 | 7.00 |  |  | 8.0 | 2.06360 | 0.0 | 3.08000 | 2.0 | 3.44960 | 6.4 | 3.75760 | 11.7 | 4.16640 | 24.0 | 12.000 | 46.0 |
| 2025 - 2670 | UM | 2 | 14.00 |  |  | 16.0 | 4.12720 | 0.0 | 6.16000 | 2.0 | 6.89920 | 6.4 | 7.51520 | 11.7 | 8.33280 | 24.0 | 24.000 | 46.0 |
| 2025 - 2670 | A2 | 4L | 0.50 |  |  | 1.3 | 0.15015 | 0.0 | 0.21450 | 2.0 | 0.24453 | 7.8 | 0.26598 | 16.1 | 0.28385 | 33.0 | 0.800 | 56.0 |
| 2025 - 2670 | A2 | 4L | 1.00 |  |  | 2.6 | 0.30030 | 0.0 | 0.42900 | 2.0 | 0.48906 | 7.8 | 0.53196 | 16.1 | 0.56770 | 33.0 | 1.600 | 56.0 |
| 2025 - 2670 | A2 | 4L | 2.00 |  |  | 5.2 | 0.60060 | 0.0 | 0.85800 | 2.0 | 0.97812 | 7.8 | 1.06392 | 16.1 | 1.13540 | 33.0 | 3.200 | 56.0 |
| 2025 - 2670 | UM | 4L | 1.75 |  |  | 4.0 | 0.72980 | 0.0 | 0.82000 | 2.0 | 0.86100 | 7.6 | 0.88560 | 13.5 | 0.92770 | 29.0 | 3.500 | 56.0 |
| 2025 - 2670 | UM | 4L | 3.50 |  |  | 8.0 | 1.45960 | 0.0 | 1.64000 | 2.0 | 1.72200 | 7.6 | 1.77120 | 13.5 | 1.85540 | 29.0 | 7.000 | 56.0 |
| 2025 - 2670 | UM | 4L | 7.00 |  |  | 16.0 | 2.91920 | 0.0 | 3.28000 | 2.0 | 3.44400 | 7.6 | 3.54240 | 13.5 | 3.71080 | 29.0 | 14.000 | 56.0 |
| 2025 - 2670 | UM | 4L | 14.00 |  |  | 34.0 | 5.82505 | 0.0 | 6.54500 | 2.0 | 6.87225 | 7.6 | 7.06860 | 13.5 | 7.40495 | 29.0 | 28.000 | 56.0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3410 - 11700 | UM | 2 | 1.75 |  |  | 2 | 0.56880 | 0.0 | 0.79000 | 2.0 | 0.86900 | 6.3 | 0.94010 | 12.0 | 1.02870 | 24.0 | 3.000 | 46.0 |
| 3410 - 11700 | UM | 2 | 3.5 |  |  | 4 | 1.03180 | 0.0 | 1.54000 | 2.0 | 1.72480 | 6.4 | 1.87880 | 11.7 | 2.08320 | 24.0 | 6.000 | 46.0 |
| 3410 - 11700 | UM | 2 | 7.0 | … | 11.7 | 8 | 2.06360 | 0.0 | 3.08000 | 2.0 | 3.44960 | 6.4 | 3.75760 | 11.7 | 4.16640 | 24.0 | 12.000 | 46.0 |
| 3410 - 11700 | UM | 2 | 14.0 | … | 15.0 | 16 | 4.12720 | 0.0 | 6.16000 | 2.0 | 6.89920 | 6.4 | 7.51520 | 11.7 | 8.33280 | 24.0 | 24.000 | 46.0 |
| 3410 - 11700 | UM | 2 | 28.0 | … | 30.0 | 34 | 9.24545 | 0.0 | 12.66500 | 2.0 | 13.93150 | 6.5 | 15.07135 | 12.7 | 16.36455 | 25.0 | 45.000 | 47.0 |
| 3410 - 11700 | UM | 4L | 1.75 |  |  | 4 | 0.72980 | 0.0 | 0.82000 | 2.0 | 0.86100 | 7.6 | 0.88560 | 13.5 | 0.92770 | 29.0 | 3.500 | 56.0 |
| 3410 - 11700 | UM | 4L | 3.5 |  |  | 8 | 1.45960 | 0.0 | 1.64000 | 2.0 | 1.72200 | 7.6 | 1.77120 | 13.5 | 1.85540 | 29.0 | 7.000 | 56.0 |
| 3410 - 11700 | UM | 4L | 7.0 | … | 11.7 | 16 | 2.91920 | 0.0 | 3.28000 | 2.0 | 3.44400 | 7.6 | 3.54240 | 13.5 | 3.71080 | 29.0 | 14.000 | 56.0 |
| 3410 - 11700 | UM | 4L | 14.0 | … | 15.0 | 34 | 5.82505 | 0.0 | 6.54500 | 2.0 | 6.87225 | 7.6 | 7.06860 | 13.5 | 7.40495 | 29.0 | 28.000 | 56.0 |
| 3410 - 11700 | UM | 4L | 28.0 | … | 30.0 | 68 | 11.51920 | 0.0 | 13.09000 | 2.0 | 13.74450 | 7.1 | 14.26810 | 14.2 | 14.94080 | 29.0 | 56.000 | 57.0 |
| 3410 - 11700 | B1 | 4L | 20.0 |  |  | 51 | 3.38576 | 0.0 | 7.20375 | 2.0 | 9.07673 | 8.2 | 10.30136 | 16.6 | 11.22174 | 37.0 | 30.000 | 56.0 |
| 3410 - 11700 | UM | 4H | 14.0 | … | 15.0 | 51 | 5.48250 | 0.0 | 6.37500 | 2.0 | 6.82125 | 8.3 | 7.07625 | 15.5 | 7.40750 | 34.0 | 27.500 | 56.0 |
| 3410 - 11700 | UM | 4H | 28.0 | … | 30.0 | 102 | 10.96500 | 0.0 | 12.75000 | 2.0 | 13.64250 | 8.3 | 14.28000 | 19.0 | 14.81500 | 35.0 | 55.000 | 57.0 |
| 3410 - 11700 | UM | 4H | 56.0 | … | 60.0 | 204 | 21.93000 | 0.0 | 25.50000 | 2.0 | 27.28500 | 8.3 | 28.56000 | 19.0 | 29.63000 | 35.0 | 110.000 | 57.0 |
| 3410 - 11700 | UM | 5A | 28.0 | … | 30.0 | 155 | 11.36593 | 0.0 | 13.06429 | 2.0 | 13.97879 | 9.0 | 14.50136 | 18.4 | 15.04264 | 37.0 | 54.000 | 57.0 |
| 3410 - 11700 | UM | 5A | 56.0 | … | 60.0 | 310 | 22.73186 | 0.0 | 26.12857 | 2.0 | 27.95757 | 9.0 | 29.00271 | 18.4 | 30.08529 | 37.0 | 108.000 | 57.0 |
| 3410 - 11700 | UM | 5B | 7.0 |  |  | 34 | 2.58683 | 0.0 | 3.11667 | 2.0 | 3.39717 | 8.8 | 3.55300 | 17.2 | 3.71650 | 37.0 | 13.500 | 56.0 |
| 3410 - 11700 | UM | 5B | 14.0 | … | 15.0 | 68 | 5.17367 | 0.0 | 6.23333 | 2.0 | 6.79433 | 8.8 | 7.10600 | 17.2 | 7.43300 | 37.0 | 27.000 | 56.0 |
| 3410 - 11700 | UM | 5B | 28.0 | … | 30.0 | 155 | 10.60200 | 0.0 | 12.62143 | 2.0 | 13.63114 | 8.3 | 14.38843 | 20.2 | 14.92086 | 38.0 | 54.000 | 57.0 |
| 3410 - 11700 | C1 | 5B | 40.0 |  |  | 155 | 9.14500 | 0.0 | 15.50000 | 2.0 | 18.60000 | 8.1 | 20.61500 | 16.3 | 22.25500 | 36.0 | 67.000 | 56.0 |
| 3410 - 11700 | UM | 5B | 56.0 | … | 60.0 | 310 | 21.20400 | 0.0 | 25.24286 | 2.0 | 27.26229 | 8.3 | 28.77686 | 20.2 | 29.84171 | 38.0 | 108.000 | 57.0 |
| 3410 - 11700 | UM | 6A | 28.0 | … | 30.0 | 204 | 11.05425 | 0.0 | 13.00500 | 2.0 | 14.04540 | 8.9 | 14.69565 | 19.6 | 15.23575 | 37.0 | 54.000 | 57.0 |
| 3410 - 11700 | C2 | 6A | 40.0 |  |  | 310 | 18.19894 | 0.0 | 19.56875 | 2.0 | 20.35150 | 9.6 | 20.74288 | 19.0 | 21.33856 | 33.0 | 38.400 | 56.0 |
| 3410 - 11700 | UM | 6A | 56.0 | … | 60.0 | 408 | 21.84840 | 0.0 | 26.01000 | 2.0 | 28.09080 | 8.3 | 29.39130 | 16.7 | 30.73160 | 37.0 | 108.000 | 57.0 |
| 3410 - 11700 | UM | 6B | 7.0 |  |  | 51 | 2.74125 | 0.0 | 3.18750 | 2.0 | 3.41063 | 8.3 | 3.57000 | 19.0 | 3.70375 | 37.0 | 13.500 | 56.0 |
| 3410 - 11700 | UM | 6B | 14.0 | … | 15.0 | 102 | 5.48250 | 0.0 | 6.37500 | 2.0 | 6.82125 | 8.3 | 7.14000 | 19.0 | 7.40750 | 37.0 | 27.000 | 56.0 |
| 3410 - 11700 | UM | 6B | 28.0 | … | 30.0 | 204 | 10.96500 | 0.0 | 12.75000 | 2.0 | 13.64250 | 8.3 | 14.28000 | 19.0 | 14.81500 | 38.0 | 54.000 | 57.0 |
| 3410 - 11700 | C3 | 6B | 40.0 |  |  | 310 | 18.40625 | 0.0 | 19.37500 | 2.0 | 19.95625 | 10.2 | 20.34375 | 41.0 | 20.74375 | 41.0 | 29.800 | 56.0 |
| 3410 - 11700 | UM | 6B | 56.0 | … | 60.0 | 408 | 21.93000 | 0.0 | 25.50000 | 2.0 | 27.28500 | 8.3 | 28.56000 | 19.0 | 29.63000 | 38.0 | 108.000 | 57.0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12750 - 15350 | UM | 2 | 1.75 |  |  | 2 | 0.51590 | 0.0 | 0.77000 | 2.0 | 0.86240 | 6.4 | 0.93940 | 11.7 | 1.04160 | 24.0 | 3.000 | 46.0 |
| 12750 - 15350 | UM | 2 | 3.5 |  |  | 4 | 1.03180 | 0.0 | 1.54000 | 2.0 | 1.72480 | 6.4 | 1.87880 | 11.7 | 2.08320 | 24.0 | 6.000 | 46.0 |
| 12750 - 15350 | UM | 2 | 7.0 |  |  | 8 | 2.06360 | 0.0 | 3.08000 | 2.0 | 3.44960 | 6.4 | 3.75760 | 11.7 | 4.16640 | 24.0 | 12.000 | 46.0 |
| 12750 - 15350 | UM | 2 | 14.0 |  |  | 16 | 4.12720 | 0.0 | 6.16000 | 2.0 | 6.89920 | 6.4 | 7.51520 | 11.7 | 8.33280 | 24.0 | 24.000 | 46.0 |
| 12750 - 15350 | UM | 2 | 28.0 |  |  | 34 | 9.24545 | 0.0 | 12.66500 | 2.0 | 13.93150 | 6.5 | 15.07135 | 12.7 | 16.36455 | 25.0 | 45.000 | 47.0 |
| 12750 - 15350 | UM | 2 | 56.0 |  |  | 68 | 19.89680 | 0.0 | 25.84000 | 2.0 | 28.16560 | 6.7 | 29.97440 | 12.5 | 32.34320 | 25.0 | 90.000 | 47.0 |
| 12750 - 15350 | UM | 4L | 1.75 |  |  | 4 | 0.70090 | 0.0 | 0.81500 | 2.0 | 0.86390 | 7.3 | 0.90465 | 15.5 | 0.94660 | 29.0 | 3.500 | 56.0 |
| 12750 - 15350 | UM | 4L | 3.5 |  |  | 8 | 1.42680 | 0.0 | 1.64000 | 2.0 | 1.73840 | 7.7 | 1.80400 | 14.9 | 1.88820 | 29.0 | 7.000 | 56.0 |
| 12750 - 15350 | UM | 4L | 7.0 |  |  | 16 | 2.85360 | 0.0 | 3.28000 | 2.0 | 3.47680 | 7.7 | 3.60800 | 14.9 | 3.77640 | 29.0 | 14.000 | 56.0 |
| 12750 - 15350 | UM | 4L | 14.0 |  |  | 34 | 5.69415 | 0.0 | 6.54500 | 2.0 | 6.93770 | 7.7 | 7.19950 | 14.9 | 7.53585 | 29.0 | 28.000 | 56.0 |
| 12750 - 15350 | UM | 4L | 28.0 |  |  | 68 | 11.38830 | 0.0 | 13.09000 | 2.0 | 13.87540 | 7.7 | 14.39900 | 14.9 | 15.07170 | 29.0 | 56.000 | 57.0 |
| 12750 - 15350 | UM | 4L | 56.0 |  |  | 155 | 22.41881 | 0.0 | 25.76875 | 2.0 | 27.31488 | 7.7 | 28.34563 | 14.9 | 29.67869 | 29.0 | 112.000 | 57.0 |
| 12750 - 15350 | UM | 4H | 14.0 |  |  | 51 | 5.41875 | 0.0 | 6.37500 | 2.0 | 6.82125 | 7.8 | 7.14000 | 16.1 | 7.47125 | 34.0 | 27.500 | 56.0 |
| 12750 - 15350 | UM | 4H | 28.0 |  |  | 102 | 10.71000 | 0.0 | 12.75000 | 2.0 | 13.77000 | 8.3 | 14.40750 | 16.7 | 15.07000 | 35.0 | 55.000 | 57.0 |
| 12750 - 15350 | UM | 4H | 56.0 |  |  | 204 | 21.42000 | 0.0 | 25.50000 | 2.0 | 27.54000 | 8.3 | 28.81500 | 16.7 | 30.14000 | 35.0 | 110.000 | 57.0 |
| 12750 - 15350 | UM | 5A | 28.0 |  |  | 155 | 11.36593 | 0.0 | 13.06429 | 2.0 | 13.97879 | 9.0 | 14.50136 | 18.4 | 15.04264 | 37.0 | 54.000 | 57.0 |
| 12750 - 15350 | UM | 5A | 56.0 |  |  | 310 | 22.73186 | 0.0 | 26.12857 | 2.0 | 27.95757 | 9.0 | 29.00271 | 18.4 | 30.08529 | 37.0 | 108.000 | 57.0 |
| 12750 - 15350 | UM | 5B | 7.0 |  |  | 34 | 2.61800 | 0.0 | 3.11667 | 2.0 | 3.36600 | 8.3 | 3.52183 | 16.7 | 3.68533 | 37.0 | 13.500 | 56.0 |
| 12750 - 15350 | UM | 5B | 14.0 |  |  | 68 | 5.23600 | 0.0 | 6.23333 | 2.0 | 6.73200 | 8.3 | 7.04367 | 16.7 | 7.37067 | 37.0 | 27.000 | 56.0 |
| 12750 - 15350 | UM | 5B | 28.0 |  |  | 155 | 10.60200 | 0.0 | 12.62143 | 2.0 | 13.63114 | 8.3 | 14.38843 | 20.2 | 14.92086 | 38.0 | 54.000 | 57.0 |
| 12750 - 15350 | UM | 5B | 56.0 |  |  | 310 | 21.45643 | 0.0 | 25.24286 | 2.0 | 27.26229 | 8.9 | 28.52443 | 19.6 | 29.58929 | 38.0 | 108.000 | 57.0 |
| 12750 - 15350 | UM | 6A | 28.0 |  |  | 204 | 11.05425 | 0.0 | 13.00500 | 2.0 | 14.04540 | 8.9 | 14.69565 | 19.6 | 15.23575 | 37.0 | 54.000 | 57.0 |
| 12750 - 15350 | UM | 6A | 56.0 |  |  | 408 | 22.10850 | 0.0 | 26.01000 | 2.0 | 28.09080 | 8.9 | 29.39130 | 19.6 | 30.47150 | 37.0 | 108.000 | 57.0 |
| 12750 - 15350 | UM | 6B | 7.0 |  |  | 51 | 2.74125 | 0.0 | 3.18750 | 2.0 | 3.41063 | 8.3 | 3.57000 | 19.0 | 3.70375 | 37.0 | 13.500 | 56.0 |
| 12750 - 15350 | UM | 6B | 14.0 |  |  | 102 | 5.48250 | 0.0 | 6.37500 | 2.0 | 6.82125 | 8.3 | 7.14000 | 19.0 | 7.40750 | 37.0 | 27.000 | 56.0 |
| 12750 - 15350 | UM | 6B | 28.0 |  |  | 204 | 10.96500 | 0.0 | 12.75000 | 2.0 | 13.64250 | 8.3 | 14.28000 | 19.0 | 14.81500 | 38.0 | 54.000 | 57.0 |
| 12750 - 15350 | UM | 6B | 56.0 |  |  | 408 | 21.93000 | 0.0 | 25.50000 | 2.0 | 27.28500 | 8.3 | 28.56000 | 19.0 | 29.63000 | 38.0 | 108.000 | 57.0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17700 - 19700 | UM | 2 | 1.75 |  |  | 2 | 0.47565 | 0.0 | 0.75500 | 2.0 | 0.85315 | 6.2 | 0.94375 | 12.0 | 1.05185 | 24.0 | 3.000 | 46.0 |
| 17700 - 19700 | UM | 2 | 3.5 |  |  | 4 | 0.95130 | 0.0 | 1.51000 | 2.0 | 1.70630 | 6.2 | 1.88750 | 12.0 | 2.10370 | 24.0 | 6.000 | 46.0 |
| 17700 - 19700 | UM | 2 | 7.0 |  |  | 8 | 1.90260 | 0.0 | 3.02000 | 2.0 | 3.41260 | 6.2 | 3.77500 | 12.0 | 4.20740 | 24.0 | 12.000 | 46.0 |
| 17700 - 19700 | UM | 2 | 13.75 | … | 14.0 | 16 | 3.80520 | 0.0 | 6.04000 | 2.0 | 6.82520 | 6.2 | 7.55000 | 12.0 | 8.41480 | 24.0 | 24.000 | 46.0 |
| 17700 - 19700 | UM | 2 | 27.5 | … | 28.0 | 34 | 9.24545 | 0.0 | 12.66500 | 2.0 | 13.93150 | 6.5 | 15.07135 | 12.7 | 16.36455 | 25.0 | 45.000 | 47.0 |
| 17700 - 19700 | UM | 2 | 55.0 | … | 56.0 | 68 | 19.89680 | 0.0 | 25.84000 | 2.0 | 28.16560 | 6.7 | 29.97440 | 12.5 | 32.34320 | 25.0 | 90.000 | 47.0 |
| 17700 - 19700 | UM | 4L | 1.75 |  |  | 4 | 0.70090 | 0.0 | 0.81500 | 2.0 | 0.86390 | 7.3 | 0.90465 | 15.5 | 0.94660 | 29.0 | 3.100 | 51.0 |
| 17700 - 19700 | UM | 4L | 3.5 |  |  | 8 | 1.40180 | 0.0 | 1.63000 | 2.0 | 1.72780 | 7.3 | 1.80930 | 15.5 | 1.89320 | 29.0 | 6.200 | 51.0 |
| 17700 - 19700 | UM | 4L | 7.0 |  |  | 16 | 2.80360 | 0.0 | 3.26000 | 2.0 | 3.45560 | 7.3 | 3.61860 | 15.5 | 3.78640 | 29.0 | 12.400 | 51.0 |
| 17700 - 19700 | UM | 4L | 13.75 | … | 14.0 | 34 | 5.69415 | 0.0 | 6.54500 | 2.0 | 6.93770 | 7.7 | 7.19950 | 14.9 | 7.53585 | 29.0 | 24.800 | 51.0 |
| 17700 - 19700 | UM | 4L | 27.5 | … | 28.0 | 68 | 11.38830 | 0.0 | 13.09000 | 2.0 | 13.87540 | 7.7 | 14.39900 | 14.9 | 15.07170 | 29.0 | 49.000 | 52.0 |
| 17700 - 19700 | UM | 4L | 55.0 | … | 56.0 | 155 | 22.41881 | 0.0 | 25.76875 | 2.0 | 27.31488 | 7.7 | 28.34563 | 14.9 | 29.67869 | 29.0 | 98.000 | 52.0 |
| 17700 - 19700 | UM | 4H | 13.75 | … | 14.0 | 51 | 5.41875 | 0.0 | 6.37500 | 2.0 | 6.82125 | 7.8 | 7.14000 | 16.1 | 7.47125 | 34.0 | 24.150 | 51.0 |
| 17700 - 19700 | UM | 4H | 27.5 | … | 28.0 | 102 | 10.71000 | 0.0 | 12.75000 | 2.0 | 13.77000 | 8.3 | 14.40750 | 16.7 | 15.07000 | 35.0 | 48.300 | 52.0 |
| 17700 - 19700 | UM | 4H | 55.0 | … | 56.0 | 204 | 21.42000 | 0.0 | 25.50000 | 2.0 | 27.54000 | 8.3 | 28.81500 | 16.7 | 30.14000 | 35.0 | 96.600 | 52.0 |
| 17700 - 19700 | UM | 5A | 27.5 | … | 28.0 | 155 | 11.36593 | 0.0 | 13.06429 | 2.0 | 13.97879 | 9.0 | 14.50136 | 18.4 | 15.04264 | 37.0 | 47.000 | 52.0 |
| 17700 - 19700 | UM | 5A | 55.0 | … | 56.0 | 310 | 22.73186 | 0.0 | 26.12857 | 2.0 | 27.95757 | 9.0 | 29.00271 | 18.4 | 30.08529 | 37.0 | 94.000 | 52.0 |
| 17700 - 19700 | UM | 5B | 7.0 |  |  | 34 | 2.61800 | 0.0 | 3.11667 | 2.0 | 3.36600 | 8.3 | 3.52183 | 16.7 | 3.68533 | 37.0 | 11.750 | 51.0 |
| 17700 - 19700 | UM | 5B | 13.75 | … | 14.0 | 68 | 5.23600 | 0.0 | 6.23333 | 2.0 | 6.73200 | 8.3 | 7.04367 | 16.7 | 7.37067 | 37.0 | 23.500 | 51.0 |
| 17700 - 19700 | UM | 5B | 27.5 | … | 28.0 | 155 | 10.60200 | 0.0 | 12.62143 | 2.0 | 13.63114 | 8.3 | 14.38843 | 20.2 | 14.92086 | 38.0 | 47.000 | 52.0 |
| 17700 - 19700 | UM | 5B | 55.0 | … | 56.0 | 310 | 21.45643 | 0.0 | 25.24286 | 2.0 | 27.26229 | 8.9 | 28.52443 | 19.6 | 29.58929 | 38.0 | 94.000 | 52.0 |
| 17700 - 19700 | UM | 6A | 27.5 | … | 28.0 | 204 | 10.92420 | 0.0 | 13.00500 | 2.0 | 14.04540 | 8.3 | 14.69565 | 16.7 | 15.36580 | 37.0 | 47.000 | 52.0 |
| 17700 - 19700 | UM | 6A | 55.0 | … | 56.0 | 408 | 22.10850 | 0.0 | 26.01000 | 2.0 | 28.09080 | 8.9 | 29.39130 | 19.6 | 30.47150 | 37.0 | 94.000 | 52.0 |
| 17700 - 19700 | UM | 6B | 7.0 |  |  | 51 | 2.77313 | 0.0 | 3.18750 | 2.0 | 3.41063 | 9.0 | 3.53813 | 18.4 | 3.67188 | 37.0 | 11.750 | 51.0 |
| 17700 - 19700 | UM | 6B | 13.75 | … | 14.0 | 102 | 5.54625 | 0.0 | 6.37500 | 2.0 | 6.82125 | 9.0 | 7.07625 | 18.4 | 7.34375 | 37.0 | 23.500 | 51.0 |
| 17700 - 19700 | UM | 6B | 27.5 | … | 28.0 | 204 | 10.96500 | 0.0 | 12.75000 | 2.0 | 13.64250 | 8.3 | 14.28000 | 19.0 | 14.81500 | 38.0 | 47.000 | 52.0 |
| 17700 - 19700 | UM | 6B | 55.0 | … | 56.0 | 408 | 21.93000 | 0.0 | 25.50000 | 2.0 | 27.28500 | 8.3 | 28.56000 | 19.0 | 29.63000 | 38.0 | 94.000 | 52.0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22000 - 29500 | UM | 2 | 1.75 |  |  | 2 | 0.47565 | 0.0 | 0.75500 | 2.0 | 0.85315 | 6.2 | 0.94375 | 12.0 | 1.05185 | 24.0 | 3.000 | 46.0 |
| 22000 - 29500 | UM | 2 | 3.5 |  |  | 4 | 0.95130 | 0.0 | 1.51000 | 2.0 | 1.70630 | 6.2 | 1.88750 | 12.0 | 2.10370 | 24.0 | 6.000 | 46.0 |
| 22000 - 29500 | UM | 2 | 7.0 |  |  | 8 | 1.90260 | 0.0 | 3.02000 | 2.0 | 3.41260 | 6.2 | 3.77500 | 12.0 | 4.20740 | 24.0 | 12.000 | 46.0 |
| 22000 - 29500 | UM | 2 | 14.0 |  |  | 16 | 3.80520 | 0.0 | 6.04000 | 2.0 | 6.82520 | 6.2 | 7.55000 | 12.0 | 8.41480 | 24.0 | 24.000 | 46.0 |
| 22000 - 29500 | UM | 2 | 28.0 |  |  | 34 | 9.24545 | 0.0 | 12.66500 | 2.0 | 13.93150 | 6.5 | 15.07135 | 12.7 | 16.36455 | 25.0 | 45.000 | 47.0 |
| 22000 - 29500 | UM | 2 | 56.0 |  |  | 68 | 19.89680 | 0.0 | 25.84000 | 2.0 | 28.16560 | 6.7 | 29.97440 | 12.5 | 32.34320 | 25.0 | 90.000 | 47.0 |
| 22000 - 29500 | UM | 4L | 1.75 |  |  | 4 | 0.70090 | 0.0 | 0.81500 | 2.0 | 0.86390 | 7.3 | 0.90465 | 15.5 | 0.94660 | 29.0 | 3.100 | 51.0 |
| 22000 - 29500 | UM | 4L | 3.5 |  |  | 8 | 1.40180 | 0.0 | 1.63000 | 2.0 | 1.72780 | 7.3 | 1.80930 | 15.5 | 1.89320 | 29.0 | 6.200 | 51.0 |
| 22000 - 29500 | UM | 4L | 7.0 |  |  | 16 | 2.80360 | 0.0 | 3.26000 | 2.0 | 3.45560 | 7.3 | 3.61860 | 15.5 | 3.78640 | 29.0 | 12.400 | 51.0 |
| 22000 - 29500 | UM | 4L | 14.0 |  |  | 34 | 5.69415 | 0.0 | 6.54500 | 2.0 | 6.93770 | 7.7 | 7.19950 | 14.9 | 7.53585 | 29.0 | 24.800 | 51.0 |
| 22000 - 29500 | UM | 4L | 28.0 |  |  | 68 | 11.38830 | 0.0 | 13.09000 | 2.0 | 13.87540 | 7.7 | 14.39900 | 14.9 | 15.07170 | 29.0 | 49.000 | 52.0 |
| 22000 - 29500 | UM | 4L | 56.0 |  |  | 155 | 22.75594 | 0.0 | 26.15625 | 2.0 | 27.72563 | 7.7 | 28.77188 | 14.9 | 30.11656 | 29.0 | 98.000 | 52.0 |
| 22000 - 29500 | UM | 4H | 14.0 |  |  | 51 | 5.41875 | 0.0 | 6.37500 | 2.0 | 6.82125 | 7.8 | 7.14000 | 16.1 | 7.47125 | 34.0 | 24.150 | 51.0 |
| 22000 - 29500 | UM | 4H | 28.0 |  |  | 102 | 10.71000 | 0.0 | 12.75000 | 2.0 | 13.77000 | 8.3 | 14.40750 | 16.7 | 15.07000 | 35.0 | 48.300 | 52.0 |
| 22000 - 29500 | UM | 4H | 56.0 |  |  | 204 | 21.42000 | 0.0 | 25.50000 | 2.0 | 27.54000 | 8.3 | 28.81500 | 16.7 | 30.14000 | 35.0 | 96.600 | 52.0 |
| 22000 - 29500 | UM | 5A | 28.0 |  |  | 155 | 11.36593 | 0.0 | 13.06429 | 2.0 | 13.97879 | 9.0 | 14.50136 | 18.4 | 15.04264 | 37.0 | 47.000 | 52.0 |
| 22000 - 29500 | UM | 5A | 56.0 |  |  | 310 | 22.28014 | 0.0 | 25.90714 | 2.0 | 27.72064 | 8.3 | 29.016 | 19.0 | 30.09414 | 37.0 | 94.000 | 52.0 |
| 22000 - 29500 | UM | 5B | 7.0 |  |  | 34 | 2.618 | 0.0 | 3.11667 | 2.0 | 3.366 | 8.3 | 3.52183 | 16.7 | 3.68533 | 37.0 | 11.750 | 51.0 |
| 22000 - 29500 | UM | 5B | 14.0 |  |  | 68 | 5.236 | 0.0 | 6.23333 | 2.0 | 6.732 | 8.3 | 7.04367 | 16.7 | 7.37067 | 37.0 | 23.500 | 51.0 |
| 22000 - 29500 | UM | 5B | 28.0 |  |  | 155 | 10.22336 | 0.0 | 12.62143 | 2.0 | 13.88357 | 8.8 | 14.64086 | 18.2 | 15.2995 | 37.0 | 47.000 | 52.0 |
| 22000 - 29500 | UM | 5B | 56.0 |  |  | 310 | 21.45643 | 0.0 | 25.24286 | 2.0 | 27.26229 | 8.9 | 28.52443 | 19.6 | 29.58929 | 38.0 | 94.000 | 52.0 |
| 22000 - 29500 | UM | 6A | 28.0 |  |  | 204 | 10.92420 | 0.0 | 13.00500 | 2.0 | 14.04540 | 8.3 | 14.69565 | 16.7 | 15.36580 | 37.0 | 47.000 | 52.0 |
| 22000 - 29500 | UM | 6A | 56.0 |  |  | 408 | 21.84840 | 0.0 | 26.01000 | 2.0 | 28.09080 | 8.3 | 29.39130 | 16.7 | 30.73160 | 37.0 | 94.000 | 52.0 |
| 22000 - 29500 | UM | 6B | 7.0 |  |  | 51 | 2.77313 | 0.0 | 3.18750 | 2.0 | 3.41063 | 9.0 | 3.53813 | 18.4 | 3.67188 | 37.0 | 11.750 | 51.0 |
| 22000 - 29500 | UM | 6B | 14.0 |  |  | 102 | 5.54625 | 0.0 | 6.37500 | 2.0 | 6.82125 | 9.0 | 7.07625 | 18.4 | 7.34375 | 37.0 | 23.500 | 51.0 |
| 22000 - 29500 | UM | 6B | 28.0 |  |  | 204 | 10.96500 | 0.0 | 12.75000 | 2.0 | 13.64250 | 8.3 | 14.28000 | 19.0 | 14.81500 | 38.0 | 47.000 | 52.0 |
| 22000 - 29500 | UM | 6B | 56.0 |  |  | 408 | 21.93000 | 0.0 | 25.50000 | 2.0 | 27.28500 | 8.3 | 28.56000 | 19.0 | 29.63000 | 38.0 | 94.000 | 52.0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 31000 - 57000 | UM | 2 | 1.75 |  |  | 2 | 0.47565 | 0.0 | 0.75500 | 2.0 | 0.85315 | 6.2 | 0.94375 | 12.0 | 1.05185 | 24.0 | 3.000 | 46.0 |
| 31000 - 57000 | UM | 2 | 3.5 |  |  | 4 | 0.95130 | 0.0 | 1.51000 | 2.0 | 1.70630 | 6.2 | 1.88750 | 12.0 | 2.10370 | 24.0 | 6.000 | 46.0 |
| 31000 - 57000 | UM | 2 | 7.0 |  |  | 8 | 1.90260 | 0.0 | 3.02000 | 2.0 | 3.41260 | 6.2 | 3.77500 | 12.0 | 4.20740 | 24.0 | 12.000 | 46.0 |
| 31000 - 57000 | UM | 2 | 14.0 |  |  | 16 | 3.80520 | 0.0 | 6.04000 | 2.0 | 6.82520 | 6.2 | 7.55000 | 12.0 | 8.41480 | 24.0 | 24.000 | 46.0 |
| 31000 - 57000 | UM | 2 | 28.0 |  |  | 34 | 9.11880 | 0.0 | 12.66500 | 2.0 | 13.93150 | 6.3 | 15.07135 | 12.0 | 16.49120 | 25.0 | 45.000 | 47.0 |
| 31000 - 57000 | UM | 2 | 56.0 |  |  | 68 | 19.89680 | 0.0 | 25.84000 | 2.0 | 28.16560 | 6.7 | 29.97440 | 12.5 | 32.34320 | 25.0 | 90.000 | 47.0 |
| 31000 - 57000 | UM | 4L | 1.75 |  |  | 4 | 0.70090 | 0.0 | 0.81500 | 2.0 | 0.86390 | 7.3 | 0.90465 | 15.5 | 0.94660 | 29.0 | 2.600 | 46.0 |
| 31000 - 57000 | UM | 4L | 3.5 |  |  | 8 | 1.41810 | 0.0 | 1.63000 | 2.0 | 1.72780 | 7.7 | 1.79300 | 14.9 | 1.87690 | 29.0 | 6.200 | 46.0 |
| 31000 - 57000 | UM | 4L | 7.0 |  |  | 16 | 2.80360 | 0.0 | 3.26000 | 2.0 | 3.45560 | 7.3 | 3.61860 | 15.5 | 3.78640 | 29.0 | 10.400 | 46.0 |
| 31000 - 57000 | UM | 4L | 14.0 |  |  | 34 | 5.69415 | 0.0 | 6.54500 | 2.0 | 6.93770 | 7.7 | 7.19950 | 14.9 | 7.53585 | 29.0 | 20.800 | 46.0 |
| 31000 - 57000 | UM | 4L | 28.0 |  |  | 68 | 11.38830 | 0.0 | 13.09000 | 2.0 | 13.87540 | 7.7 | 14.39900 | 14.9 | 15.07170 | 29.0 | 49.000 | 52.0 |
| 31000 - 57000 | UM | 4L | 56.0 |  |  | 155 | 22.75594 | 0.0 | 26.15625 | 2.0 | 27.72563 | 7.7 | 28.77188 | 14.9 | 30.11656 | 29.0 | 84.000 | 47.0 |
| 31000 - 57000 | UM | 4H | 14.0 |  |  | 51 | 5.41875 | 0.0 | 6.37500 | 2.0 | 6.82125 | 7.8 | 7.14000 | 16.1 | 7.47125 | 34.0 | 20.850 | 46.0 |
| 31000 - 57000 | UM | 4H | 28.0 |  |  | 102 | 10.83750 | 0.0 | 12.75000 | 2.0 | 13.64250 | 7.8 | 14.28000 | 16.1 | 14.94250 | 35.0 | 41.700 | 47.0 |
| 31000 - 57000 | UM | 4H | 56.0 |  |  | 204 | 21.67500 | 0.0 | 25.50000 | 2.0 | 27.28500 | 7.8 | 28.56000 | 16.1 | 29.88500 | 35.0 | 83.400 | 47.0 |
| 31000 - 57000 | UM | 5A | 28.0 |  |  | 155 | 11.36593 | 0.0 | 13.06429 | 2.0 | 13.97879 | 9.0 | 14.50136 | 18.4 | 15.04264 | 37.0 | 40.000 | 47.0 |
| 31000 - 57000 | UM | 5A | 56.0 |  |  | 310 | 22.28014 | 0.0 | 25.90714 | 2.0 | 27.72064 | 8.3 | 29.01600 | 19.0 | 30.09414 | 37.0 | 80.000 | 47.0 |
| 31000 - 57000 | UM | 5B | 7.0 |  |  | 34 | 2.61800 | 0.0 | 3.11667 | 2.0 | 3.36600 | 8.3 | 3.52183 | 16.7 | 3.68533 | 37.0 | 10.000 | 46.0 |
| 31000 - 57000 | UM | 5B | 14.0 |  |  | 68 | 5.29833 | 0.0 | 6.23333 | 2.0 | 6.73200 | 8.9 | 7.04367 | 19.6 | 7.30833 | 37.0 | 20.000 | 46.0 |
| 31000 - 57000 | UM | 5B | 28.0 |  |  | 155 | 10.72821 | 0.0 | 12.62143 | 2.0 | 13.63114 | 8.9 | 14.26221 | 19.6 | 14.79464 | 38.0 | 40.000 | 47.0 |
| 31000 - 57000 | UM | 5B | 56.0 |  |  | 310 | 21.01800 | 0.0 | 25.02143 | 2.0 | 27.02314 | 8.3 | 28.52443 | 20.2 | 29.58486 | 38.0 | 80.000 | 47.0 |
| 31000 - 57000 | UM | 6A | 28.0 |  |  | 204 | 11.05425 | 0.0 | 13.00500 | 2.0 | 14.04540 | 8.9 | 14.69565 | 19.6 | 15.23575 | 37.0 | 40.000 | 47.0 |
| 31000 - 57000 | UM | 6A | 56.0 |  |  | 408 | 22.10850 | 0.0 | 26.01000 | 2.0 | 28.09080 | 8.9 | 29.39130 | 19.6 | 30.47150 | 37.0 | 80.000 | 47.0 |
| 31000 - 57000 | UM | 6B | 7.0 |  |  | 51 | 2.80500 | 0.0 | 3.18750 | 2.0 | 3.37875 | 8.3 | 3.50625 | 17.7 | 3.64000 | 37.0 | 10.000 | 46.0 |
| 31000 - 57000 | UM | 6B | 14.0 |  |  | 102 | 5.54625 | 0.0 | 6.37500 | 2.0 | 6.82125 | 9.0 | 7.07625 | 18.4 | 7.34375 | 37.0 | 20.000 | 46.0 |
| 31000 - 57000 | UM | 6B | 28.0 |  |  | 204 | 10.96500 | 0.0 | 12.75000 | 2.0 | 13.64250 | 8.3 | 14.28000 | 19.0 | 14.81500 | 38.0 | 40.000 | 47.0 |
| 31000 - 57000 | UM | 6B | 56.0 |  |  | 408 | 21.93000 | 0.0 | 25.50000 | 2.0 | 27.28500 | 8.3 | 28.56000 | 19.0 | 29.63000 | 38.0 | 80.000 | 47.0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

| **Frequency band, system and class** | | | | | |  | **RX MASKS** | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Band | System | Equipment Class | Channel  Separation | | | Netto-Bitrate | f1 (MHz) | a1 (dB) | f2 (MHz) | a2 (dB) | f3 (MHz) | a3 (dB) | f4 (MHz) | a4 (dB) | f5 (MHz) | a5 (dB) | f6 (MHz) | a6 (dB) |
| MHz |  | Field 7G1 | MHz | | | (Mbit/s) |  |  |  |  |  |  |  |  |  |  |  |  |
| 1350 - 1517 | A1 | 2 | 0.025 |  |  | 0.032 | 0.01102 | 0.0 | 0.01224 | 2.0 | 0.01285 | 8.3 | 0.01322 | 15.1 | 0.01346 | 38.0 | 0.02357 | 54.0 |
| 1350 - 1517 | A1 | 2 | 0.075 |  |  | 0.096 | 0.03305 | 0.0 | 0.03672 | 2.0 | 0.03856 | 8.3 | 0.03966 | 15.1 | 0.04039 | 38.0 | 0.07071 | 54.0 |
| 1350 - 1517 | A1 | 2 | 0.250 |  |  | 0.325 | 0.06280 | 0.0 | 0.10644 | 2.0 | 0.12879 | 8.5 | 0.14050 | 14.3 | 0.15008 | 38.0 | 0.22571 | 54.0 |
| 1350 - 1517 | A1 | 2 | 0.500 |  |  | 0.650 | 0.12560 | 0.0 | 0.21288 | 2.0 | 0.25758 | 8.5 | 0.28100 | 14.3 | 0.30015 | 38.0 | 0.43179 | 54.0 |
| 1350 - 1517 | A1 | 2 | 1.000 |  |  | 1.3 | 0.25119 | 0.0 | 0.42575 | 2.0 | 0.51516 | 8.5 | 0.56199 | 14.3 | 0.60031 | 38.0 | 0.86357 | 54.0 |
| 1350 - 1517 | A1 | 2 | 2.000 |  |  | 2.6 | 0.50239 | 0.0 | 0.85150 | 2.0 | 1.03032 | 8.5 | 1.12398 | 14.3 | 1.20062 | 38.0 | 1.72714 | 54.0 |
| 1350 - 1517 | UM | 2 | 3.500 |  |  | 4.0 | 1.03180 | 0.0 | 1.54000 | 2.0 | 1.78640 | 8.1 | 1.92500 | 13.5 | 2.04820 | 35.0 | 2.56667 | 52.0 |
| 1350 - 1517 | A1 | 4L | 0.025 |  |  | 0.064 | 0.00708 | 0.0 | 0.01056 | 2.0 | 0.01257 | 9.7 | 0.01352 | 17.5 | 0.01404 | 44.5 | 0.02327 | 62.0 |
| 1350 - 1517 | A1 | 4L | 0.075 |  |  | 0.190 | 0.02038 | 0.0 | 0.03135 | 2.0 | 0.03762 | 9.6 | 0.04076 | 18.0 | 0.04232 | 44.5 | 0.06982 | 62.0 |
| 1350 - 1517 | A1 | 4L | 0.250 |  |  | 0.650 | 0.07508 | 0.0 | 0.10725 | 2.0 | 0.12548 | 9.5 | 0.13406 | 16.7 | 0.13943 | 44.5 | 0.22273 | 62.0 |
| 1350 - 1517 | A1 | 4L | 0.500 |  |  | 1.3 | 0.15015 | 0.0 | 0.21450 | 2.0 | 0.25097 | 9.5 | 0.26813 | 16.7 | 0.27885 | 44.5 | 0.42606 | 62.0 |
| 1350 - 1517 | A1 | 4L | 1.000 |  |  | 2.6 | 0.30030 | 0.0 | 0.42900 | 2.0 | 0.50193 | 9.5 | 0.53625 | 16.7 | 0.55770 | 44.5 | 0.85212 | 62.0 |
| 1350 - 1517 | A1 | 4L | 2.000 |  |  | 5.2 | 0.60060 | 0.0 | 0.85800 | 2.0 | 1.00386 | 9.5 | 1.07250 | 16.7 | 1.11540 | 44.5 | 1.70424 | 62.0 |
| 1350 - 1517 | UM | 4L | 3.500 |  |  | 8.0 | 1.45960 | 0.0 | 1.64000 | 2.0 | 1.73840 | 9.1 | 1.78760 | 15.9 | 1.82040 | 42.5 | 2.88276 | 62.0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2025 - 2670 | A2 | 2 | 0.50 |  |  | 0.65 | 0.12560 | 0.0 | 0.21288 | 2.0 | 0.25758 | 8.5 | 0.28100 | 14.3 | 0.30015 | 38.0 | 0.43179 | 54.0 |
| 2025 - 2670 | A2 | 2 | 1.00 |  |  | 1.3 | 0.25119 | 0.0 | 0.42575 | 2.0 | 0.51516 | 8.5 | 0.56199 | 14.3 | 0.60031 | 38.0 | 0.86357 | 54.0 |
| 2025 - 2670 | A2 | 2 | 2.00 |  |  | 2.6 | 0.50239 | 0.0 | 0.85150 | 2.0 | 1.03032 | 8.5 | 1.12398 | 14.3 | 1.20062 | 38.0 | 1.72714 | 54.0 |
| 2025 - 2670 | UM | 2 | 1.75 |  |  | 2.0 | 0.56880 | 0.0 | 0.79000 | 2.0 | 0.90060 | 8.3 | 0.96380 | 14.5 | 1.01120 | 35.0 | 1.28333 | 52.0 |
| 2025 - 2670 | UM | 2 | 3.50 |  |  | 4.0 | 1.03180 | 0.0 | 1.54000 | 2.0 | 1.78640 | 8.1 | 1.92500 | 13.5 | 2.04820 | 35.0 | 2.56667 | 52.0 |
| 2025 - 2670 | UM | 2 | 7.00 |  |  | 8.0 | 2.06360 | 0.0 | 3.08000 | 2.0 | 3.57280 | 8.1 | 3.85000 | 13.5 | 4.09640 | 35.0 | 5.13333 | 52.0 |
| 2025 - 2670 | UM | 2 | 14.00 |  |  | 16.0 | 4.12720 | 0.0 | 6.16000 | 2.0 | 7.14560 | 8.1 | 7.70000 | 13.5 | 8.19280 | 35.0 | 10.26667 | 52.0 |
| 2025 - 2670 | A2 | 4L | 0.50 |  |  | 1.3 | 0.15015 | 0.0 | 0.21450 | 2.0 | 0.25097 | 9.5 | 0.26813 | 16.7 | 0.27885 | 44.5 | 0.42606 | 62.0 |
| 2025 - 2670 | A2 | 4L | 1.00 |  |  | 2.6 | 0.30030 | 0.0 | 0.42900 | 2.0 | 0.50193 | 9.5 | 0.53625 | 16.7 | 0.55770 | 44.5 | 0.85212 | 62.0 |
| 2025 - 2670 | A2 | 4L | 2.00 |  |  | 5.2 | 0.60060 | 0.0 | 0.85800 | 2.0 | 1.00386 | 9.5 | 1.07250 | 16.7 | 1.11540 | 44.5 | 1.70424 | 62.0 |
| 2025 - 2670 | UM | 4L | 1.75 |  |  | 4.0 | 0.72980 | 0.0 | 0.82000 | 2.0 | 0.86920 | 9.1 | 0.89380 | 15.9 | 0.91020 | 42.5 | 1.44138 | 62.0 |
| 2025 - 2670 | UM | 4L | 3.50 |  |  | 8.0 | 1.45960 | 0.0 | 1.64000 | 2.0 | 1.73840 | 9.1 | 1.78760 | 15.9 | 1.82040 | 42.5 | 2.88276 | 62.0 |
| 2025 - 2670 | UM | 4L | 7.00 |  |  | 16.0 | 2.91920 | 0.0 | 3.28000 | 2.0 | 3.47680 | 9.1 | 3.57520 | 15.9 | 3.64080 | 42.5 | 5.76552 | 62.0 |
| 2025 - 2670 | UM | 4L | 14.00 |  |  | 34.0 | 5.82505 | 0.0 | 6.54500 | 2.0 | 6.93770 | 9.1 | 7.13405 | 15.9 | 7.26495 | 42.5 | 11.53103 | 62.0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3410 - 11700 | UM | 2 | 1.75 |  |  | 2 | 0.56880 | 0.0 | 0.79000 | 2.0 | 0.90060 | 8.3 | 0.96380 | 14.5 | 1.01120 | 35.0 | 1.28333 | 52.0 |
| 3410 - 11700 | UM | 2 | 3.5 |  |  | 4 | 1.03180 | 0.0 | 1.54000 | 2.0 | 1.78640 | 8.1 | 1.92500 | 13.5 | 2.04820 | 35.0 | 2.56667 | 52.0 |
| 3410 - 11700 | UM | 2 | 7.0 | … | 11.7 | 8 | 2.06360 | 0.0 | 3.08000 | 2.0 | 3.57280 | 8.1 | 3.85000 | 13.5 | 4.09640 | 35.0 | 5.13333 | 52.0 |
| 3410 - 11700 | UM | 2 | 14.0 | … | 15.0 | 16 | 4.12720 | 0.0 | 6.16000 | 2.0 | 7.14560 | 8.1 | 7.70000 | 13.5 | 8.19280 | 35.0 | 10.26667 | 52.0 |
| 3410 - 11700 | UM | 2 | 28.0 | … | 30.0 | 34 | 9.24545 | 0.0 | 12.66500 | 2.0 | 14.31145 | 8.0 | 15.32465 | 14.2 | 16.08455 | 36.0 | 20.43200 | 53.0 |
| 3410 - 11700 | UM | 4L | 1.75 |  |  | 4 | 0.72980 | 0.0 | 0.82000 | 2.0 | 0.86920 | 9.1 | 0.89380 | 15.9 | 0.91020 | 42.5 | 1.44138 | 62.0 |
| 3410 - 11700 | UM | 4L | 3.5 |  |  | 8 | 1.45960 | 0.0 | 1.64000 | 2.0 | 1.73840 | 9.1 | 1.78760 | 15.9 | 1.82040 | 42.5 | 2.88276 | 62.0 |
| 3410 - 11700 | UM | 4L | 7.0 | … | 11.7 | 16 | 2.91920 | 0.0 | 3.28000 | 2.0 | 3.47680 | 9.1 | 3.57520 | 15.9 | 3.64080 | 42.5 | 5.76552 | 62.0 |
| 3410 - 11700 | UM | 4L | 14.0 | … | 15.0 | 34 | 5.82505 | 0.0 | 6.54500 | 2.0 | 6.93770 | 9.1 | 7.13405 | 15.9 | 7.26495 | 42.5 | 11.53103 | 62.0 |
| 3410 - 11700 | UM | 4L | 28.0 | … | 30.0 | 68 | 11.51920 | 0.0 | 13.09000 | 2.0 | 14.00630 | 9.9 | 14.39900 | 16.7 | 14.66080 | 43.0 | 21.92414 | 63.0 |
| 3410 - 11700 | B1 | 4L | 20.0 |  |  | 51 | 3.38576 | 0.0 | 7.20375 | 2.0 | 9.36488 | 9.5 | 10.44544 | 17.5 | 11.02174 | 45.0 | 18.77273 | 62.0 |
| 3410 - 11700 | UM | 4H | 14.0 | … | 15.0 | 51 | 5.48250 | 0.0 | 6.37500 | 2.0 | 6.88500 | 9.6 | 7.14000 | 18.0 | 7.26750 | 45.0 | 14.45455 | 62.0 |
| 3410 - 11700 | UM | 4H | 28.0 | … | 30.0 | 102 | 10.96500 | 0.0 | 12.75000 | 2.0 | 13.77000 | 9.6 | 14.28000 | 18.0 | 14.53500 | 46.0 | 27.75000 | 63.0 |
| 3410 - 11700 | UM | 4H | 56.0 | … | 60.0 | 204 | 21.93000 | 0.0 | 25.50000 | 2.0 | 27.54000 | 9.6 | 28.56000 | 18.0 | 29.07000 | 46.0 | 55.50000 | 63.0 |
| 3410 - 11700 | UM | 5A | 28.0 | … | 30.0 | 155 | 11.36593 | 0.0 | 13.06429 | 2.0 | 14.10943 | 10.5 | 14.63200 | 23.4 | 14.76264 | 47.0 | 26.45833 | 67.0 |
| 3410 - 11700 | UM | 5A | 56.0 |  | 60.0 | 310 | 22.73186 | 0.0 | 26.12857 | 2.0 | 28.21886 | 10.5 | 29.26400 | 23.4 | 29.52529 | 47.0 | 52.91667 | 67.0 |
| 3410 - 11700 | UM | 5B | 7.0 |  |  | 34 | 2.58683 | 0.0 | 3.11667 | 2.0 | 3.42833 | 10.0 | 3.58417 | 19.7 | 3.64650 | 46.5 | 6.52273 | 62.0 |
| 3410 - 11700 | UM | 5B | 14.0 | … | 15.0 | 68 | 5.17367 | 0.0 | 6.23333 | 2.0 | 6.85667 | 10.0 | 7.16833 | 19.7 | 7.29300 | 46.5 | 13.04545 | 62.0 |
| 3410 - 11700 | UM | 5B | 28.0 | … | 30.0 | 155 | 10.60200 | 0.0 | 12.62143 | 2.0 | 13.88357 | 10.7 | 14.38843 | 19.2 | 14.64086 | 47.5 | 25.54167 | 65.0 |
| 3410 - 11700 | C1 | 5B | 40.0 |  |  | 155 | 9.14500 | 0.0 | 15.50000 | 2.0 | 19.22000 | 9.9 | 20.92500 | 17.8 | 21.85500 | 46.0 | 31.31818 | 63.0 |
| 3410 - 11700 | UM | 5B | 56.0 | … | 60.0 | 310 | 21.20400 | 0.0 | 25.24286 | 2.0 | 27.76714 | 10.7 | 28.77686 | 19.2 | 29.28171 | 47.5 | 51.08333 | 65.0 |
| 3410 - 11700 | UM | 6A | 28.0 | … | 30.0 | 204 | 11.05425 | 0.0 | 13.00500 | 2.0 | 14.17545 | 10.2 | 14.69565 | 18.6 | 14.95575 | 47.0 | 27.29167 | 71.0 |
| 3410 - 11700 | C2 | 6A | 40.0 |  |  | 310 | 18.19894 | 0.0 | 19.56875 | 2.0 | 20.35150 | 9.6 | 20.74288 | 18.0 | 20.93856 | 44.5 | 31.66667 | 73.0 |
| 3410 - 11700 | UM | 6A | 56.0 | … | 60.0 | 408 | 21.84840 | 0.0 | 26.01000 | 2.0 | 28.61100 | 10.7 | 29.65140 | 19.2 | 30.17160 | 47.0 | 54.58333 | 71.0 |
| 3410 - 11700 | UM | 6B | 7.0 |  |  | 51 | 2.74125 | 0.0 | 3.18750 | 2.0 | 3.44250 | 9.6 | 3.57000 | 18.0 | 3.63375 | 46.5 | 6.52273 | 62.0 |
| 3410 - 11700 | UM | 6B | 14.0 | … | 15.0 | 102 | 5.48250 | 0.0 | 6.37500 | 2.0 | 6.88500 | 9.6 | 7.14000 | 18.0 | 7.26750 | 46.5 | 13.04545 | 62.0 |
| 3410 - 11700 | UM | 6B | 28.0 | … | 30.0 | 204 | 10.96500 | 0.0 | 12.75000 | 2.0 | 13.89750 | 11.2 | 14.28000 | 18.0 | 14.53500 | 47.5 | 26.58333 | 70.0 |
| 3410 - 11700 | C3 | 6B | 40.0 |  |  | 310 | 18.40625 | 0.0 | 19.37500 | 2.0 | 19.95625 | 10.2 | 20.34375 | 47.5 | 20.34385 | 48.5 | 24.41463 | 74.0 |
| 3410 - 11700 | UM | 6B | 56.0 | … | 60.0 | 408 | 21.93000 | 0.0 | 25.50000 | 2.0 | 27.79500 | 11.2 | 28.56000 | 18.0 | 29.07000 | 47.5 | 53.16667 | 70.0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 12750 - 15350 | UM | 2 | 1.75 |  |  | 2 | 0.51590 | 0.0 | 0.77000 | 2.0 | 0.89320 | 8.1 | 0.96250 | 13.5 | 1.02410 | 35.0 | 1.28333 | 52.0 |
| 12750 - 15350 | UM | 2 | 3.5 |  |  | 4 | 1.03180 | 0.0 | 1.54000 | 2.0 | 1.78640 | 8.1 | 1.92500 | 13.5 | 2.04820 | 35.0 | 2.56667 | 52.0 |
| 12750 - 15350 | UM | 2 | 7.0 |  |  | 8 | 2.06360 | 0.0 | 3.08000 | 2.0 | 3.57280 | 8.1 | 3.85000 | 13.5 | 4.09640 | 35.0 | 5.13333 | 52.0 |
| 12750 - 15350 | UM | 2 | 14.0 |  |  | 16 | 4.12720 | 0.0 | 6.16000 | 2.0 | 7.14560 | 8.1 | 7.70000 | 13.5 | 8.19280 | 35.0 | 10.26667 | 52.0 |
| 12750 - 15350 | UM | 2 | 28.0 |  |  | 34 | 9.24545 | 0.0 | 12.66500 | 2.0 | 14.31145 | 8.0 | 15.32465 | 14.2 | 16.08455 | 36.0 | 20.43200 | 53.0 |
| 12750 - 15350 | UM | 2 | 56.0 |  |  | 68 | 19.89680 | 0.0 | 25.84000 | 2.0 | 28.68240 | 8.0 | 30.49120 | 14.4 | 31.78320 | 36.0 | 40.86400 | 53.0 |
| 12750 - 15350 | UM | 4L | 1.75 |  |  | 4 | 0.70090 | 0.0 | 0.81500 | 2.0 | 0.88020 | 9.6 | 0.91280 | 18.0 | 0.92910 | 42.5 | 1.44138 | 62.0 |
| 12750 - 15350 | UM | 4L | 3.5 |  |  | 8 | 1.42680 | 0.0 | 1.64000 | 2.0 | 1.75480 | 9.0 | 1.82040 | 17.4 | 1.85320 | 42.5 | 2.88276 | 62.0 |
| 12750 - 15350 | UM | 4L | 7.0 |  |  | 16 | 2.85360 | 0.0 | 3.28000 | 2.0 | 3.50960 | 9.0 | 3.64080 | 17.4 | 3.70640 | 42.5 | 5.76552 | 62.0 |
| 12750 - 15350 | UM | 4L | 14.0 |  |  | 34 | 5.69415 | 0.0 | 6.54500 | 2.0 | 7.00315 | 9.0 | 7.26495 | 17.4 | 7.39585 | 42.5 | 11.53103 | 62.0 |
| 12750 - 15350 | UM | 4L | 28.0 |  |  | 68 | 11.38830 | 0.0 | 13.09000 | 2.0 | 14.00630 | 9.0 | 14.52990 | 17.4 | 14.79170 | 43.0 | 21.92414 | 63.0 |
| 12750 - 15350 | UM | 4L | 56.0 |  |  | 155 | 22.41881 | 0.0 | 25.76875 | 2.0 | 27.57256 | 9.0 | 28.60331 | 17.4 | 29.11869 | 43.0 | 43.84828 | 63.0 |
| 12750 - 15350 | UM | 4H | 14.0 |  |  | 51 | 5.41875 | 0.0 | 6.37500 | 2.0 | 6.94875 | 10.2 | 7.20375 | 18.6 | 7.33125 | 45.0 | 14.45455 | 62.0 |
| 12750 - 15350 | UM | 4H | 28.0 |  |  | 102 | 10.71000 | 0.0 | 12.75000 | 2.0 | 13.89750 | 9.5 | 14.53500 | 19.2 | 14.79000 | 46.0 | 27.75000 | 63.0 |
| 12750 - 15350 | UM | 4H | 56.0 |  |  | 204 | 21.42000 | 0.0 | 25.50000 | 2.0 | 27.79500 | 9.5 | 29.07000 | 19.2 | 29.58000 | 46.0 | 55.50000 | 63.0 |
| 12750 - 15350 | UM | 5A | 28.0 |  |  | 155 | 11.36593 | 0.0 | 13.06429 | 2.0 | 14.10943 | 10.5 | 14.63200 | 23.4 | 14.76264 | 47.0 | 26.45833 | 67.0 |
| 12750 - 15350 | UM | 5A | 56.0 |  |  | 310 | 22.73186 | 0.0 | 26.12857 | 2.0 | 28.21886 | 10.5 | 29.26400 | 23.4 | 29.52529 | 47.0 | 52.91667 | 67.0 |
| 12750 - 15350 | UM | 5B | 7.0 |  |  | 34 | 2.61800 | 0.0 | 3.11667 | 2.0 | 3.42833 | 10.7 | 3.55300 | 19.2 | 3.61533 | 46.5 | 6.52273 | 62.0 |
| 12750 - 15350 | UM | 5B | 14.0 |  |  | 68 | 5.23600 | 0.0 | 6.23333 | 2.0 | 6.85667 | 10.7 | 7.10600 | 19.2 | 7.23067 | 46.5 | 13.04545 | 62.0 |
| 12750 - 15350 | UM | 5B | 28.0 |  |  | 155 | 10.60200 | 0.0 | 12.62143 | 2.0 | 13.88357 | 10.7 | 14.38843 | 19.2 | 14.64086 | 47.5 | 25.54167 | 65.0 |
| 12750 - 15350 | UM | 5B | 56.0 |  |  | 310 | 21.45643 | 0.0 | 25.24286 | 2.0 | 27.51471 | 10.2 | 28.52443 | 18.6 | 29.02929 | 47.5 | 51.91667 | 67.0 |
| 12750 - 15350 | UM | 6A | 28.0 |  |  | 204 | 11.05425 | 0.0 | 13.00500 | 2.0 | 14.17545 | 10.2 | 14.69565 | 18.6 | 14.95575 | 47.0 | 27.29167 | 71.0 |
| 12750 - 15350 | UM | 6A | 56.0 |  |  | 408 | 22.10850 | 0.0 | 26.01000 | 2.0 | 28.35090 | 10.2 | 29.39130 | 18.6 | 29.91150 | 47.0 | 54.58333 | 71.0 |
| 12750 - 15350 | UM | 6B | 7.0 |  |  | 51 | 2.74125 | 0.0 | 3.18750 | 2.0 | 3.44250 | 9.6 | 3.57000 | 18.0 | 3.63375 | 46.5 | 6.52273 | 62.0 |
| 12750 - 15350 | UM | 6B | 14.0 |  |  | 102 | 5.48250 | 0.0 | 6.37500 | 2.0 | 6.88500 | 9.6 | 7.14000 | 18.0 | 7.26750 | 46.5 | 13.04545 | 62.0 |
| 12750 - 15350 | UM | 6B | 28.0 |  |  | 204 | 10.96500 | 0.0 | 12.75000 | 2.0 | 13.89750 | 11.2 | 14.28000 | 18.0 | 14.53500 | 47.5 | 26.58333 | 70.0 |
| 12750 - 15350 | UM | 6B | 56.0 |  |  | 408 | 21.93000 | 0.0 | 25.50000 | 2.0 | 27.79500 | 11.2 | 28.56000 | 18.0 | 29.07000 | 47.5 | 53.16667 | 70.0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 17700 - 19700 | UM | 2 | 1.75 |  |  | 2 | 0.47565 | 0.0 | 0.75500 | 2.0 | 0.89090 | 8.1 | 0.96640 | 13.4 | 1.03435 | 35.0 | 1.28333 | 52.0 |
| 17700 - 19700 | UM | 2 | 3.5 |  |  | 4 | 0.95130 | 0.0 | 1.51000 | 2.0 | 1.78180 | 8.1 | 1.93280 | 13.4 | 2.06870 | 35.0 | 2.56667 | 52.0 |
| 17700 - 19700 | UM | 2 | 7.0 |  |  | 8 | 1.90260 | 0.0 | 3.02000 | 2.0 | 3.56360 | 8.1 | 3.86560 | 13.4 | 4.13740 | 35.0 | 5.13333 | 52.0 |
| 17700 - 19700 | UM | 2 | 13.75 | … | 14.0 | 16 | 3.80520 | 0.0 | 6.04000 | 2.0 | 7.12720 | 8.1 | 7.73120 | 13.4 | 8.27480 | 35.0 | 10.26667 | 52.0 |
| 17700 - 19700 | UM | 2 | 27.5 | … | 28.0 | 34 | 9.24545 | 0.0 | 12.66500 | 2.0 | 14.31145 | 8.0 | 15.32465 | 14.2 | 16.08455 | 36.0 | 20.43200 | 53.0 |
| 17700 - 19700 | UM | 2 | 55.0 | … | 56.0 | 68 | 19.89680 | 0.0 | 25.84000 | 2.0 | 28.68240 | 8.0 | 30.49120 | 14.4 | 31.78320 | 36.0 | 40.86400 | 53.0 |
| 17700 - 19700 | UM | 4L | 1.75 |  |  | 4 | 0.70090 | 0.0 | 0.81500 | 2.0 | 0.88020 | 9.6 | 0.91280 | 18.0 | 0.92910 | 40.0 | 1.38966 | 57.0 |
| 17700 - 19700 | UM | 4L | 3.5 |  |  | 8 | 1.40180 | 0.0 | 1.63000 | 2.0 | 1.76040 | 9.6 | 1.82560 | 18.0 | 1.85820 | 40.0 | 2.77931 | 57.0 |
| 17700 - 19700 | UM | 4L | 7.0 |  |  | 16 | 2.80360 | 0.0 | 3.26000 | 2.0 | 3.52080 | 9.6 | 3.65120 | 18.0 | 3.71640 | 40.0 | 5.55862 | 57.0 |
| 17700 - 19700 | UM | 4L | 13.75 | … | 14.0 | 34 | 5.69415 | 0.0 | 6.54500 | 2.0 | 7.00315 | 9.0 | 7.26495 | 17.4 | 7.39585 | 40.0 | 11.11724 | 57.0 |
| 17700 - 19700 | UM | 4L | 27.5 | … | 28.0 | 68 | 11.38830 | 0.0 | 13.09000 | 2.0 | 14.00630 | 9.0 | 14.52990 | 17.4 | 14.79170 | 40.5 | 21.48966 | 60.0 |
| 17700 - 19700 | UM | 4L | 55.0 | … | 56.0 | 155 | 22.41881 | 0.0 | 25.76875 | 2.0 | 27.57256 | 9.0 | 28.60331 | 17.4 | 29.11869 | 40.5 | 42.68966 | 59.0 |
| 17700 - 19700 | UM | 4H | 13.75 | … | 14.0 | 51 | 5.41875 | 0.0 | 6.37500 | 2.0 | 6.94875 | 10.2 | 7.20375 | 18.6 | 7.33125 | 42.5 | 13.77273 | 57.0 |
| 17700 - 19700 | UM | 4H | 27.5 | … | 28.0 | 102 | 10.71000 | 0.0 | 12.75000 | 2.0 | 13.89750 | 9.5 | 14.53500 | 19.2 | 14.79000 | 43.5 | 27.00000 | 60.0 |
| 17700 - 19700 | UM | 4H | 55.0 | … | 56.0 | 204 | 21.42000 | 0.0 | 25.50000 | 2.0 | 27.79500 | 9.5 | 29.07000 | 19.2 | 29.58000 | 43.5 | 54.00000 | 60.0 |
| 17700 - 19700 | UM | 5A | 27.5 | … | 28.0 | 155 | 11.36593 | 0.0 | 13.06429 | 2.0 | 14.10943 | 10.5 | 14.50136 | 17.4 | 14.76264 | 44.5 | 26.45833 | 67.0 |
| 17700 - 19700 | UM | 5A | 55.0 | … | 56.0 | 310 | 22.73186 | 0.0 | 26.12857 | 2.0 | 28.21886 | 10.5 | 29.00271 | 17.4 | 29.52529 | 44.5 | 52.91667 | 67.0 |
| 17700 - 19700 | UM | 5B | 7.0 |  |  | 34 | 2.61800 | 0.0 | 3.11667 | 2.0 | 3.39717 | 9.5 | 3.55300 | 19.2 | 3.61533 | 44.0 | 6.23864 | 57.0 |
| 17700 - 19700 | UM | 5B | 13.75 | … | 14.0 | 68 | 5.23600 | 0.0 | 6.23333 | 2.0 | 6.79433 | 9.5 | 7.10600 | 19.2 | 7.23067 | 44.0 | 12.47727 | 57.0 |
| 17700 - 19700 | UM | 5B | 27.5 | … | 28.0 | 155 | 10.60200 | 0.0 | 12.62143 | 2.0 | 13.75736 | 9.5 | 14.38843 | 19.2 | 14.64086 | 45.0 | 25.54167 | 65.0 |
| 17700 - 19700 | UM | 5B | 55.0 | … | 56.0 | 310 | 21.45643 | 0.0 | 25.24286 | 2.0 | 27.51471 | 10.2 | 28.52443 | 18.6 | 29.02929 | 45.0 | 51.91667 | 67.0 |
| 17700 - 19700 | UM | 6A | 27.5 | … | 28.0 | 204 | 10.92420 | 0.0 | 13.00500 | 2.0 | 14.17545 | 9.5 | 14.82570 | 19.2 | 15.08580 | 44.5 | 27.29167 | 71.0 |
| 17700 - 19700 | UM | 6A | 55.0 | … | 56.0 | 408 | 22.10850 | 0.0 | 26.01000 | 2.0 | 28.35090 | 10.2 | 29.39130 | 18.6 | 29.91150 | 44.5 | 54.58333 | 71.0 |
| 17700 - 19700 | UM | 6B | 7.0 |  |  | 51 | 2.77313 | 0.0 | 3.18750 | 2.0 | 3.44250 | 10.5 | 3.53813 | 17.4 | 3.60188 | 44.0 | 6.40909 | 60.0 |
| 17700 - 19700 | UM | 6B | 13.75 | … | 14.0 | 102 | 5.54625 | 0.0 | 6.37500 | 2.0 | 6.88500 | 10.5 | 7.07625 | 17.4 | 7.20375 | 44.0 | 12.81818 | 60.0 |
| 17700 - 19700 | UM | 6B | 27.5 | … | 28.0 | 204 | 10.96500 | 0.0 | 12.75000 | 2.0 | 13.77000 | 9.6 | 14.28000 | 18.0 | 14.53500 | 45.0 | 26.58333 | 70.0 |
| 17700 - 19700 | UM | 6B | 55.0 | … | 56.0 | 408 | 21.93000 | 0.0 | 25.50000 | 2.0 | 27.54000 | 9.6 | 28.56000 | 18.0 | 29.07000 | 45.0 | 53.16667 | 70.0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 22000 - 29500 | UM | 2 | 1.75 |  |  | 2 | 0.47565 | 0.0 | 0.75500 | 2.0 | 0.89090 | 8.1 | 0.96640 | 13.4 | 1.03435 | 35.0 | 1.28333 | 52.0 |
| 22000 - 29500 | UM | 2 | 3.5 |  |  | 4 | 0.95130 | 0.0 | 1.51000 | 2.0 | 1.78180 | 8.1 | 1.93280 | 13.4 | 2.06870 | 35.0 | 2.56667 | 52.0 |
| 22000 - 29500 | UM | 2 | 7.0 |  |  | 8 | 1.90260 | 0.0 | 3.02000 | 2.0 | 3.56360 | 8.1 | 3.86560 | 13.4 | 4.13740 | 35.0 | 5.13333 | 52.0 |
| 22000 - 29500 | UM | 2 | 14.0 |  |  | 16 | 3.80520 | 0.0 | 6.04000 | 2.0 | 7.12720 | 8.1 | 7.73120 | 13.4 | 8.27480 | 35.0 | 10.26667 | 52.0 |
| 22000 - 29500 | UM | 2 | 28.0 |  |  | 34 | 9.24545 | 0.0 | 12.66500 | 2.0 | 14.31145 | 8.0 | 15.32465 | 14.2 | 16.08455 | 36.0 | 20.43200 | 53.0 |
| 22000 - 29500 | UM | 2 | 56.0 |  |  | 68 | 19.89680 | 0.0 | 25.84000 | 2.0 | 28.68240 | 8.0 | 30.49120 | 14.4 | 31.78320 | 36.0 | 40.86400 | 53.0 |
| 22000 - 29500 | UM | 4L | 1.75 |  |  | 4 | 0.70090 | 0.0 | 0.81500 | 2.0 | 0.88020 | 9.6 | 0.91280 | 18.0 | 0.92910 | 40.0 | 1.38966 | 57.0 |
| 22000 - 29500 | UM | 4L | 3.5 |  |  | 8 | 1.40180 | 0.0 | 1.63000 | 2.0 | 1.76040 | 9.6 | 1.82560 | 18.0 | 1.85820 | 40.0 | 2.77931 | 57.0 |
| 22000 - 29500 | UM | 4L | 7.0 |  |  | 16 | 2.80360 | 0.0 | 3.26000 | 2.0 | 3.52080 | 9.6 | 3.65120 | 18.0 | 3.71640 | 40.0 | 5.55862 | 57.0 |
| 22000 - 29500 | UM | 4L | 14.0 |  |  | 34 | 5.69415 | 0.0 | 6.54500 | 2.0 | 7.00315 | 9.0 | 7.26495 | 17.4 | 7.39585 | 40.0 | 11.11724 | 57.0 |
| 22000 - 29500 | UM | 4L | 28.0 |  |  | 68 | 11.38830 | 0.0 | 13.09000 | 2.0 | 14.00630 | 9.0 | 14.52990 | 17.4 | 14.79170 | 40.5 | 21.48966 | 60.0 |
| 22000 - 29500 | UM | 4L | 56.0 |  |  | 155 | 22.75594 | 0.0 | 26.15625 | 2.0 | 27.98719 | 9.0 | 29.03344 | 17.4 | 29.55656 | 40.5 | 42.97931 | 60.0 |
| 22000 - 29500 | UM | 4H | 14.0 |  |  | 51 | 5.41875 | 0.0 | 6.37500 | 2.0 | 6.94875 | 10.2 | 7.20375 | 18.6 | 7.33125 | 42.5 | 13.77273 | 57.0 |
| 22000 - 29500 | UM | 4H | 28.0 |  |  | 102 | 10.71000 | 0.0 | 12.75000 | 2.0 | 13.89750 | 9.5 | 14.53500 | 19.2 | 14.79000 | 43.5 | 27.00000 | 60.0 |
| 22000 - 29500 | UM | 4H | 56.0 |  |  | 204 | 21.42000 | 0.0 | 25.50000 | 2.0 | 27.79500 | 9.5 | 29.07000 | 19.2 | 29.58000 | 43.5 | 54.00000 | 60.0 |
| 22000 - 29500 | UM | 5A | 28.0 |  |  | 155 | 11.36593 | 0.0 | 13.06429 | 2.0 | 14.10943 | 10.5 | 14.50136 | 17.4 | 14.76264 | 44.5 | 26.45833 | 67.0 |
| 22000 - 29500 | UM | 5A | 56.0 |  |  | 310 | 22.28014 | 0.0 | 25.90714 | 2.0 | 27.97971 | 9.6 | 29.016 | 18.0 | 29.53414 | 44.5 | 52.91667 | 67.0 |
| 22000 - 29500 | UM | 5B | 7.0 |  |  | 34 | 2.618 | 0.0 | 3.11667 | 2.0 | 3.39717 | 9.5 | 3.553 | 19.2 | 3.61533 | 44.0 | 6.23864 | 57.0 |
| 22000 - 29500 | UM | 5B | 14.0 |  |  | 68 | 5.236 | 0.0 | 6.23333 | 2.0 | 6.79433 | 9.5 | 7.106 | 19.2 | 7.23067 | 44.0 | 12.47727 | 57.0 |
| 22000 - 29500 | UM | 5B | 28.0 |  |  | 155 | 10.22336 | 0.0 | 12.62143 | 2.0 | 14.00979 | 9.8 | 14.64086 | 17.2 | 15.0195 | 44.5 | 26.45833 | 67.0 |
| 22000 - 29500 | UM | 5B | 56.0 |  |  | 310 | 21.45643 | 0.0 | 25.24286 | 2.0 | 27.51471 | 10.2 | 28.52443 | 18.6 | 29.02929 | 45.0 | 51.91667 | 67.0 |
| 22000 - 29500 | UM | 6A | 28.0 |  |  | 204 | 10.92420 | 0.0 | 13.00500 | 2.0 | 14.17545 | 9.5 | 14.82570 | 19.2 | 15.08580 | 44.5 | 27.29167 | 71.0 |
| 22000 - 29500 | UM | 6A | 56.0 |  |  | 408 | 21.84840 | 0.0 | 26.01000 | 2.0 | 28.35090 | 9.5 | 29.65140 | 19.2 | 30.17160 | 44.5 | 54.58333 | 71.0 |
| 22000 - 29500 | UM | 6B | 7.0 |  |  | 51 | 2.77313 | 0.0 | 3.18750 | 2.0 | 3.44250 | 10.5 | 3.53813 | 17.4 | 3.60188 | 44.0 | 6.40909 | 60.0 |
| 22000 - 29500 | UM | 6B | 14.0 |  |  | 102 | 5.54625 | 0.0 | 6.37500 | 2.0 | 6.88500 | 10.5 | 7.07625 | 17.4 | 7.20375 | 44.0 | 12.81818 | 60.0 |
| 22000 - 29500 | UM | 6B | 28.0 |  |  | 204 | 10.96500 | 0.0 | 12.75000 | 2.0 | 13.77000 | 9.6 | 14.28000 | 18.0 | 14.53500 | 45.0 | 26.58333 | 70.0 |
| 22000 - 29500 | UM | 6B | 56.0 |  |  | 408 | 21.93000 | 0.0 | 25.50000 | 2.0 | 27.54000 | 9.6 | 28.56000 | 18.0 | 29.07000 | 45.0 | 53.16667 | 70.0 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 31000 - 57000 | UM | 2 | 1.75 |  |  | 2 | 0.47565 | 0.0 | 0.75500 | 2.0 | 0.89090 | 8.1 | 0.96640 | 13.4 | 1.03435 | 35.0 | 1.28333 | 52.0 |
| 31000 - 57000 | UM | 2 | 3.5 |  |  | 4 | 0.95130 | 0.0 | 1.51000 | 2.0 | 1.78180 | 8.1 | 1.93280 | 13.4 | 2.06870 | 35.0 | 2.56667 | 52.0 |
| 31000 - 57000 | UM | 2 | 7.0 |  |  | 8 | 1.90260 | 0.0 | 3.02000 | 2.0 | 3.56360 | 8.1 | 3.86560 | 13.4 | 4.13740 | 35.0 | 5.13333 | 52.0 |
| 31000 - 57000 | UM | 2 | 14.0 |  |  | 16 | 3.80520 | 0.0 | 6.04000 | 2.0 | 7.12720 | 8.1 | 7.73120 | 13.4 | 8.27480 | 35.0 | 10.26667 | 52.0 |
| 31000 - 57000 | UM | 2 | 28.0 |  |  | 34 | 9.11880 | 0.0 | 12.66500 | 2.0 | 14.43810 | 8.3 | 15.45130 | 14.5 | 16.21120 | 36.0 | 20.43200 | 53.0 |
| 31000 - 57000 | UM | 2 | 56.0 |  |  | 68 | 19.89680 | 0.0 | 25.84000 | 2.0 | 28.68240 | 8.0 | 30.49120 | 14.4 | 31.78320 | 36.0 | 40.86400 | 53.0 |
| 31000 - 57000 | UM | 4L | 1.75 |  |  | 4 | 0.70090 | 0.0 | 0.81500 | 2.0 | 0.87205 | 8.3 | 0.90465 | 14.5 | 0.92910 | 37.5 | 1.33793 | 52.0 |
| 31000 - 57000 | UM | 4L | 3.5 |  |  | 8 | 1.41810 | 0.0 | 1.63000 | 2.0 | 1.74410 | 9.0 | 1.80930 | 17.4 | 1.84190 | 37.5 | 2.67586 | 52.0 |
| 31000 - 57000 | UM | 4L | 7.0 |  |  | 16 | 2.80360 | 0.0 | 3.26000 | 2.0 | 3.48820 | 8.3 | 3.61860 | 14.5 | 3.71640 | 37.5 | 5.35172 | 52.0 |
| 31000 - 57000 | UM | 4L | 14.0 |  |  | 34 | 5.69415 | 0.0 | 6.54500 | 2.0 | 7.00315 | 9.0 | 7.26495 | 17.4 | 7.39585 | 37.5 | 10.70345 | 52.0 |
| 31000 - 57000 | UM | 4L | 28.0 |  |  | 68 | 11.38830 | 0.0 | 13.09000 | 2.0 | 14.00630 | 9.0 | 14.52990 | 17.4 | 14.79170 | 40.5 | 21.48966 | 60.0 |
| 31000 - 57000 | UM | 4L | 56.0 |  |  | 155 | 22.75594 | 0.0 | 26.15625 | 2.0 | 27.98719 | 9.0 | 29.03344 | 17.4 | 29.55656 | 38.0 | 42.97931 | 60.0 |
| 31000 - 57000 | UM | 4H | 14.0 |  |  | 51 | 5.41875 | 0.0 | 6.37500 | 2.0 | 6.88500 | 8.9 | 7.14000 | 15.1 | 7.33125 | 40.0 | 13.09091 | 52.0 |
| 31000 - 57000 | UM | 4H | 28.0 |  |  | 102 | 10.83750 | 0.0 | 12.75000 | 2.0 | 13.77000 | 8.9 | 14.40750 | 18.6 | 14.66250 | 41.0 | 27.00000 | 60.0 |
| 31000 - 57000 | UM | 4H | 56.0 |  |  | 204 | 21.67500 | 0.0 | 25.50000 | 2.0 | 27.54000 | 8.9 | 28.81500 | 18.6 | 29.32500 | 41.0 | 54.00000 | 60.0 |
| 31000 - 57000 | UM | 5A | 28.0 |  |  | 155 | 11.36593 | 0.0 | 13.06429 | 2.0 | 13.97879 | 9.0 | 14.50136 | 17.4 | 14.76264 | 42.0 | 26.45833 | 67.0 |
| 31000 - 57000 | UM | 5A | 56.0 |  |  | 310 | 22.28014 | 0.0 | 25.90714 | 2.0 | 27.97971 | 9.6 | 29.01600 | 18.0 | 29.53414 | 42.0 | 52.91667 | 67.0 |
| 31000 - 57000 | UM | 5B | 7.0 |  |  | 34 | 2.61800 | 0.0 | 3.11667 | 2.0 | 3.39717 | 9.5 | 3.52183 | 15.7 | 3.61533 | 41.5 | 6.23864 | 57.0 |
| 31000 - 57000 | UM | 5B | 14.0 |  |  | 68 | 5.29833 | 0.0 | 6.23333 | 2.0 | 6.73200 | 8.9 | 7.04367 | 18.6 | 7.16833 | 41.5 | 12.47727 | 57.0 |
| 31000 - 57000 | UM | 5B | 28.0 |  |  | 155 | 10.72821 | 0.0 | 12.62143 | 2.0 | 13.75736 | 10.2 | 14.26221 | 18.6 | 14.51464 | 42.5 | 25.95833 | 67.0 |
| 31000 - 57000 | UM | 5B | 56.0 |  |  | 310 | 21.01800 | 0.0 | 25.02143 | 2.0 | 27.27336 | 9.5 | 28.52443 | 19.2 | 29.02486 | 42.5 | 51.91667 | 67.0 |
| 31000 - 57000 | UM | 6A | 28.0 |  |  | 204 | 11.05425 | 0.0 | 13.00500 | 2.0 | 14.04540 | 8.9 | 14.69565 | 18.6 | 14.95575 | 42.0 | 27.29167 | 71.0 |
| 31000 - 57000 | UM | 6A | 56.0 |  |  | 408 | 22.10850 | 0.0 | 26.01000 | 2.0 | 28.09080 | 8.9 | 29.39130 | 18.6 | 29.91150 | 42.0 | 54.58333 | 71.0 |
| 31000 - 57000 | UM | 6B | 7.0 |  |  | 51 | 2.80500 | 0.0 | 3.18750 | 2.0 | 3.41063 | 9.9 | 3.50625 | 16.7 | 3.57000 | 41.5 | 6.40909 | 60.0 |
| 31000 - 57000 | UM | 6B | 14.0 |  |  | 102 | 5.54625 | 0.0 | 6.37500 | 2.0 | 6.82125 | 9.0 | 7.07625 | 17.4 | 7.20375 | 41.5 | 12.81818 | 60.0 |
| 31000 - 57000 | UM | 6B | 28.0 |  |  | 204 | 10.96500 | 0.0 | 12.75000 | 2.0 | 13.77000 | 9.6 | 14.28000 | 18.0 | 14.53500 | 42.5 | 26.58333 | 70.0 |
| 31000 - 57000 | UM | 6B | 56.0 |  |  | 408 | 21.93000 | 0.0 | 25.50000 | 2.0 | 27.54000 | 9.6 | 28.56000 | 18.0 | 29.07000 | 42.5 | 53.16667 | 70.0 |

Note :

All values are calculated according the method in ETSI TR 101 854 Annex F.

The data are taken from ETSI EN 302 217-2-2 V1.4.1 and contains all frequency bands between 1350 MHz and 57 GHz

UM designates the unified mask of EN 302 217-2-2 V1.4.1.

A1, A2, B1, C1, C2 and C3 designate the system mask in the annexes of EN 302 217-2-2 V1.4.1.

Table 3. DEFAULT VALUES FOR COPOLAR AND CROSSPOLAR ANTENNA RADIATION PATTERN

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| GAIN | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. |
| 20 | 0.0 | 0.0 | 2.7 | 0.3 | 5.4 | 1.3 | 8.1 | 3.0 | 10.0 | 4.6 | 13.6 | 8.5 | 23.3 | 8.5 | 29.0 | 10.9 | 35.0 | 12.9 | 41.0 | 14.6 | 42.3 | 15.0 | 48.0 | 26.3 | 180.0 | 26.3 |
| 20.1 | 0.0 | 0.0 | 2.6 | 0.3 | 5.3 | 1.3 | 8.0 | 3.0 | 10.0 | 4.7 | 13.5 | 8.5 | 23.0 | 8.5 | 29.0 | 11.0 | 35.0 | 13.1 | 41.0 | 14.8 | 41.7 | 15.0 | 48.0 | 26.5 | 180.0 | 26.5 |
| 20.2 | 0.0 | 0.0 | 2.6 | 0.3 | 5.3 | 1.4 | 7.9 | 3.0 | 10.0 | 4.8 | 13.3 | 8.6 | 22.8 | 8.6 | 29.0 | 11.2 | 35.0 | 13.2 | 41.0 | 14.9 | 41.2 | 15.0 | 48.0 | 26.6 | 180.0 | 26.6 |
| 20.3 | 0.0 | 0.0 | 2.6 | 0.3 | 5.2 | 1.3 | 7.9 | 3.1 | 10.0 | 4.9 | 13.2 | 8.6 | 22.5 | 8.6 | 28.0 | 11.0 | 35.0 | 13.4 | 40.6 | 15.0 | 41.0 | 15.1 | 48.0 | 26.8 | 180.0 | 26.8 |
| 20.4 | 0.0 | 0.0 | 2.6 | 0.3 | 5.2 | 1.4 | 7.8 | 3.1 | 10.0 | 5.1 | 13.1 | 8.6 | 22.3 | 8.6 | 28.0 | 11.1 | 35.0 | 13.5 | 40.0 | 15.0 | 41.0 | 15.2 | 48.0 | 26.9 | 180.0 | 26.9 |
| 20.5 | 0.0 | 0.0 | 2.5 | 0.3 | 5.1 | 1.3 | 7.7 | 3.1 | 10.0 | 5.2 | 12.9 | 8.6 | 22.0 | 8.6 | 28.0 | 11.3 | 35.0 | 13.7 | 39.5 | 15.0 | 41.0 | 15.4 | 48.0 | 27.1 | 180.0 | 27.1 |
| 20.6 | 0.0 | 0.0 | 2.5 | 0.3 | 5.1 | 1.4 | 7.6 | 3.1 | 10.0 | 5.3 | 12.8 | 8.7 | 21.7 | 8.7 | 28.0 | 11.4 | 34.0 | 13.5 | 38.9 | 15.0 | 41.0 | 15.5 | 48.0 | 27.2 | 180.0 | 27.2 |
| 20.7 | 0.0 | 0.0 | 2.5 | 0.3 | 5.0 | 1.4 | 7.6 | 3.1 | 10.0 | 5.4 | 12.7 | 8.7 | 21.5 | 8.7 | 28.0 | 11.6 | 34.0 | 13.7 | 38.4 | 15.0 | 41.0 | 15.7 | 48.0 | 27.4 | 180.0 | 27.4 |
| 20.8 | 0.0 | 0.0 | 2.5 | 0.3 | 5.0 | 1.4 | 7.5 | 3.1 | 10.0 | 5.5 | 12.5 | 8.7 | 21.2 | 8.7 | 27.0 | 11.3 | 34.0 | 13.8 | 37.9 | 15.0 | 41.0 | 15.8 | 48.0 | 27.5 | 180.0 | 27.5 |
| 20.9 | 0.0 | 0.0 | 2.4 | 0.3 | 4.9 | 1.4 | 7.4 | 3.1 | 9.9 | 5.6 | 12.4 | 8.7 | 21.0 | 8.7 | 27.0 | 11.5 | 34.0 | 14.0 | 37.4 | 15.0 | 41.0 | 16.0 | 48.0 | 27.7 | 180.0 | 27.7 |
| 21 | 0.0 | 0.0 | 2.4 | 0.3 | 4.9 | 1.4 | 7.3 | 3.1 | 9.8 | 5.6 | 12.3 | 8.8 | 20.8 | 8.8 | 27.0 | 11.6 | 34.0 | 14.1 | 36.8 | 15.0 | 41.0 | 16.1 | 48.0 | 27.8 | 180.0 | 27.8 |
| 21.1 | 0.0 | 0.0 | 2.4 | 0.3 | 4.8 | 1.4 | 7.3 | 3.2 | 9.7 | 5.6 | 12.2 | 8.8 | 20.5 | 8.8 | 27.0 | 11.8 | 34.0 | 14.3 | 36.3 | 15.0 | 41.0 | 16.3 | 48.0 | 28.0 | 180.0 | 28.0 |
| 21.2 | 0.0 | 0.0 | 2.4 | 0.3 | 4.8 | 1.4 | 7.2 | 3.1 | 9.6 | 5.6 | 12.0 | 8.8 | 20.3 | 8.8 | 27.0 | 11.9 | 34.0 | 14.4 | 35.8 | 15.0 | 41.0 | 16.4 | 48.0 | 28.1 | 180.0 | 28.1 |
| 21.3 | 0.0 | 0.0 | 2.3 | 0.3 | 4.7 | 1.4 | 7.1 | 3.1 | 9.5 | 5.6 | 11.9 | 8.8 | 20.1 | 8.8 | 27.0 | 12.1 | 34.0 | 14.6 | 35.3 | 15.0 | 41.0 | 16.6 | 48.0 | 28.3 | 180.0 | 28.3 |
| 21.4 | 0.0 | 0.0 | 2.3 | 0.3 | 4.7 | 1.4 | 7.0 | 3.1 | 9.4 | 5.6 | 11.8 | 8.9 | 19.8 | 8.9 | 26.0 | 11.8 | 33.0 | 14.4 | 34.9 | 15.0 | 41.0 | 16.7 | 48.0 | 28.4 | 180.0 | 28.4 |
| 21.5 | 0.0 | 0.0 | 2.3 | 0.3 | 4.6 | 1.4 | 7.0 | 3.2 | 9.3 | 5.6 | 11.7 | 8.9 | 19.6 | 8.9 | 26.0 | 12.0 | 33.0 | 14.5 | 34.4 | 15.0 | 40.0 | 16.6 | 48.0 | 28.6 | 180.0 | 28.6 |
| 21.6 | 0.0 | 0.0 | 2.3 | 0.4 | 4.6 | 1.4 | 6.9 | 3.2 | 9.2 | 5.6 | 11.6 | 8.9 | 19.4 | 8.9 | 26.0 | 12.1 | 33.0 | 14.7 | 33.9 | 15.0 | 40.0 | 16.8 | 48.0 | 28.7 | 180.0 | 28.7 |
| 21.7 | 0.0 | 0.0 | 2.2 | 0.3 | 4.5 | 1.4 | 6.8 | 3.2 | 9.1 | 5.6 | 11.5 | 8.9 | 19.2 | 8.9 | 26.0 | 12.3 | 33.0 | 14.8 | 33.4 | 15.0 | 40.0 | 16.9 | 48.0 | 28.9 | 180.0 | 28.9 |
| 21.8 | 0.0 | 0.0 | 2.2 | 0.3 | 4.5 | 1.4 | 6.8 | 3.2 | 9.0 | 5.6 | 11.3 | 9.0 | 18.9 | 9.0 | 26.0 | 12.4 | 33.0 | 15.0 | 33.0 | 15.0 | 40.0 | 17.1 | 48.0 | 29.0 | 180.0 | 29.0 |
| 21.9 | 0.0 | 0.0 | 2.2 | 0.3 | 4.4 | 1.4 | 6.7 | 3.2 | 8.9 | 5.7 | 11.2 | 9.0 | 18.7 | 9.0 | 26.0 | 12.6 | 32.5 | 15.0 | 33.0 | 15.1 | 40.0 | 17.2 | 48.0 | 29.2 | 180.0 | 29.2 |
| 22 | 0.0 | 0.0 | 2.2 | 0.4 | 4.4 | 1.4 | 6.6 | 3.2 | 8.8 | 5.7 | 11.1 | 9.0 | 18.5 | 9.0 | 25.0 | 12.3 | 32.1 | 15.0 | 33.0 | 15.3 | 40.0 | 17.4 | 48.0 | 29.3 | 180.0 | 29.3 |
| 22.1 | 0.0 | 0.0 | 2.1 | 0.3 | 4.3 | 1.4 | 6.5 | 3.2 | 8.7 | 5.7 | 11.0 | 9.0 | 18.3 | 9.0 | 25.0 | 12.4 | 31.6 | 15.0 | 33.0 | 15.4 | 40.0 | 17.5 | 48.0 | 29.5 | 180.0 | 29.5 |
| 22.2 | 0.0 | 0.0 | 2.1 | 0.3 | 4.3 | 1.4 | 6.5 | 3.2 | 8.7 | 5.8 | 10.9 | 9.1 | 18.1 | 9.1 | 25.0 | 12.6 | 31.2 | 15.0 | 33.0 | 15.6 | 40.0 | 17.7 | 48.0 | 29.6 | 180.0 | 29.6 |
| 22.3 | 0.0 | 0.0 | 2.1 | 0.3 | 4.3 | 1.4 | 6.4 | 3.2 | 8.6 | 5.8 | 10.8 | 9.1 | 17.9 | 9.1 | 25.0 | 12.7 | 30.8 | 15.0 | 32.0 | 15.4 | 40.0 | 17.8 | 48.0 | 29.8 | 180.0 | 29.8 |
| 22.4 | 0.0 | 0.0 | 2.1 | 0.4 | 4.2 | 1.4 | 6.4 | 3.3 | 8.5 | 5.8 | 10.7 | 9.1 | 17.7 | 9.1 | 25.0 | 12.9 | 30.4 | 15.0 | 32.0 | 15.6 | 40.0 | 18.0 | 48.0 | 29.9 | 180.0 | 29.9 |
| 22.5 | 0.0 | 0.0 | 2.1 | 0.4 | 4.2 | 1.4 | 6.3 | 3.3 | 8.4 | 5.8 | 10.6 | 9.1 | 17.5 | 9.1 | 25.0 | 13.0 | 29.9 | 15.0 | 32.0 | 15.7 | 40.0 | 18.1 | 48.0 | 30.1 | 180.0 | 30.1 |
| 22.6 | 0.0 | 0.0 | 2.0 | 0.3 | 4.1 | 1.4 | 6.2 | 3.2 | 8.3 | 5.8 | 10.5 | 9.2 | 17.3 | 9.2 | 25.0 | 13.2 | 29.5 | 15.0 | 32.0 | 15.9 | 40.0 | 18.3 | 48.0 | 30.2 | 180.0 | 30.2 |
| 22.7 | 0.0 | 0.0 | 2.0 | 0.3 | 4.1 | 1.4 | 6.2 | 3.3 | 8.2 | 5.8 | 10.3 | 9.2 | 17.1 | 9.2 | 24.0 | 12.9 | 29.1 | 15.0 | 32.0 | 16.0 | 40.0 | 18.4 | 48.0 | 30.4 | 180.0 | 30.4 |
| 22.8 | 0.0 | 0.0 | 2.0 | 0.4 | 4.0 | 1.4 | 6.1 | 3.3 | 8.1 | 5.8 | 10.2 | 9.2 | 16.9 | 9.2 | 24.0 | 13.0 | 28.7 | 15.0 | 32.0 | 16.2 | 40.0 | 18.6 | 48.0 | 30.5 | 180.0 | 30.5 |
| 22.9 | 0.0 | 0.0 | 2.0 | 0.4 | 4.0 | 1.4 | 6.0 | 3.2 | 8.1 | 5.9 | 10.1 | 9.2 | 16.7 | 9.2 | 24.0 | 13.2 | 28.3 | 15.0 | 32.0 | 16.3 | 40.0 | 18.7 | 48.0 | 30.7 | 180.0 | 30.7 |
| 23 | 0.0 | 0.0 | 2.0 | 0.4 | 4.0 | 1.5 | 6.0 | 3.3 | 8.0 | 5.9 | 10.0 | 9.3 | 16.5 | 9.3 | 24.0 | 13.3 | 32.0 | 16.5 | 40.0 | 18.9 | 44.3 | 20.0 | 48.0 | 30.8 | 180.0 | 30.8 |
| 23.1 | 0.0 | 0.0 | 1.9 | 0.3 | 3.9 | 1.4 | 5.9 | 3.3 | 7.9 | 5.9 | 9.9 | 9.3 | 16.3 | 9.3 | 24.0 | 13.5 | 32.0 | 16.6 | 40.0 | 19.0 | 43.7 | 20.0 | 48.0 | 31.0 | 180.0 | 31.0 |
| GAIN | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. |
| 23.2 | 0.0 | 0.0 | 1.9 | 0.3 | 3.9 | 1.5 | 5.9 | 3.4 | 7.8 | 5.9 | 9.8 | 9.3 | 16.1 | 9.3 | 24.0 | 13.6 | 32.0 | 16.8 | 40.0 | 19.2 | 43.1 | 20.0 | 48.0 | 31.1 | 180.0 | 31.1 |
| 23.3 | 0.0 | 0.0 | 1.9 | 0.4 | 3.8 | 1.4 | 5.8 | 3.3 | 7.7 | 5.8 | 9.7 | 9.3 | 15.9 | 9.3 | 24.0 | 13.8 | 32.0 | 16.9 | 40.0 | 19.3 | 42.5 | 20.0 | 48.0 | 31.3 | 180.0 | 31.3 |
| 23.4 | 0.0 | 0.0 | 1.9 | 0.4 | 3.8 | 1.5 | 5.7 | 3.3 | 7.7 | 6.0 | 9.6 | 9.4 | 15.8 | 9.4 | 23.0 | 13.5 | 31.0 | 16.7 | 39.0 | 19.2 | 41.9 | 20.0 | 48.0 | 31.4 | 180.0 | 31.4 |
| 23.5 | 0.0 | 0.0 | 1.9 | 0.4 | 3.8 | 1.5 | 5.7 | 3.4 | 7.6 | 6.0 | 9.5 | 9.4 | 15.6 | 9.4 | 23.0 | 13.6 | 31.0 | 16.9 | 39.0 | 19.4 | 41.3 | 20.0 | 48.0 | 31.6 | 180.0 | 31.6 |
| 23.6 | 0.0 | 0.0 | 1.8 | 0.3 | 3.7 | 1.4 | 5.6 | 3.3 | 7.5 | 5.9 | 9.4 | 9.4 | 15.4 | 9.4 | 23.0 | 13.8 | 31.0 | 17.0 | 39.0 | 19.5 | 40.8 | 20.0 | 48.0 | 31.7 | 180.0 | 31.7 |
| 23.7 | 0.0 | 0.0 | 1.8 | 0.3 | 3.7 | 1.5 | 5.6 | 3.4 | 7.4 | 5.9 | 9.3 | 9.4 | 15.2 | 9.4 | 23.0 | 13.9 | 31.0 | 17.2 | 39.0 | 19.7 | 40.2 | 20.0 | 48.0 | 31.9 | 180.0 | 31.9 |
| 23.8 | 0.0 | 0.0 | 1.8 | 0.4 | 3.7 | 1.5 | 5.5 | 3.3 | 7.4 | 6.1 | 9.3 | 9.5 | 15.0 | 9.5 | 23.0 | 14.1 | 31.0 | 17.3 | 39.0 | 19.8 | 39.7 | 20.0 | 48.0 | 32.0 | 180.0 | 32.0 |
| 23.9 | 0.0 | 0.0 | 1.8 | 0.4 | 3.6 | 1.5 | 5.4 | 3.3 | 7.3 | 6.0 | 9.2 | 9.5 | 14.9 | 9.5 | 23.0 | 14.2 | 31.0 | 17.5 | 39.0 | 20.0 | 39.1 | 20.0 | 48.0 | 32.2 | 180.0 | 32.2 |
| 24 | 0.0 | 0.0 | 1.8 | 0.4 | 3.6 | 1.5 | 5.4 | 3.4 | 7.2 | 6.0 | 9.1 | 9.5 | 14.7 | 9.5 | 23.0 | 14.4 | 31.0 | 17.6 | 38.6 | 20.0 | 39.0 | 20.1 | 48.0 | 32.3 | 180.0 | 32.3 |
| 24.1 | 0.0 | 0.0 | 1.7 | 0.3 | 3.5 | 1.5 | 5.3 | 3.3 | 7.1 | 6.0 | 9.0 | 9.5 | 14.5 | 9.5 | 22.0 | 14.0 | 31.0 | 17.8 | 38.1 | 20.0 | 39.0 | 20.3 | 48.0 | 32.5 | 180.0 | 32.5 |
| 24.2 | 0.0 | 0.0 | 1.7 | 0.4 | 3.5 | 1.5 | 5.3 | 3.4 | 7.1 | 6.1 | 8.9 | 9.6 | 14.4 | 9.6 | 22.0 | 14.2 | 31.0 | 17.9 | 37.5 | 20.0 | 39.0 | 20.4 | 48.0 | 32.6 | 180.0 | 32.6 |
| 24.3 | 0.0 | 0.0 | 1.7 | 0.4 | 3.5 | 1.5 | 5.2 | 3.4 | 7.0 | 6.1 | 8.8 | 9.6 | 14.2 | 9.6 | 22.0 | 14.3 | 31.0 | 18.1 | 37.0 | 20.0 | 39.0 | 20.6 | 48.0 | 32.8 | 180.0 | 32.8 |
| 24.4 | 0.0 | 0.0 | 1.7 | 0.4 | 3.4 | 1.5 | 5.2 | 3.4 | 6.9 | 6.0 | 8.7 | 9.6 | 14.0 | 9.6 | 22.0 | 14.5 | 31.0 | 18.2 | 36.5 | 20.0 | 39.0 | 20.7 | 48.0 | 32.9 | 180.0 | 32.9 |
| 24.5 | 0.0 | 0.0 | 1.7 | 0.4 | 3.4 | 1.5 | 5.1 | 3.4 | 6.8 | 6.0 | 8.6 | 9.6 | 13.9 | 9.6 | 22.0 | 14.6 | 30.0 | 18.0 | 36.0 | 20.0 | 39.0 | 20.9 | 48.0 | 33.1 | 180.0 | 33.1 |
| 24.6 | 0.0 | 0.0 | 1.7 | 0.4 | 3.4 | 1.5 | 5.1 | 3.5 | 6.8 | 6.1 | 8.5 | 9.7 | 13.7 | 9.7 | 22.0 | 14.8 | 30.0 | 18.2 | 35.5 | 20.0 | 39.0 | 21.0 | 48.0 | 33.2 | 180.0 | 33.2 |
| 24.7 | 0.0 | 0.0 | 1.6 | 0.3 | 3.3 | 1.5 | 5.0 | 3.4 | 6.7 | 6.1 | 8.4 | 9.7 | 13.6 | 9.7 | 22.0 | 14.9 | 30.0 | 18.3 | 35.0 | 20.0 | 39.0 | 21.2 | 48.0 | 33.4 | 180.0 | 33.4 |
| 24.8 | 0.0 | 0.0 | 1.6 | 0.4 | 3.3 | 1.5 | 5.0 | 3.5 | 6.6 | 6.1 | 8.4 | 9.7 | 13.4 | 9.7 | 22.0 | 15.1 | 30.0 | 18.5 | 34.5 | 20.0 | 39.0 | 21.3 | 48.0 | 33.5 | 180.0 | 33.5 |
| 24.9 | 0.0 | 0.0 | 1.6 | 0.4 | 3.3 | 1.6 | 4.9 | 3.4 | 6.6 | 6.2 | 8.3 | 9.7 | 13.3 | 9.7 | 21.0 | 14.7 | 30.0 | 18.6 | 34.1 | 20.0 | 39.0 | 21.5 | 48.0 | 33.7 | 180.0 | 33.7 |
| 25 | 0.0 | 0.0 | 1.6 | 0.4 | 3.2 | 1.5 | 4.9 | 3.5 | 6.5 | 6.2 | 8.2 | 9.8 | 13.1 | 9.8 | 21.0 | 14.9 | 30.0 | 18.8 | 33.6 | 20.0 | 39.0 | 21.6 | 48.0 | 33.8 | 180.0 | 33.8 |
| 25.1 | 0.0 | 0.0 | 1.6 | 0.4 | 3.2 | 1.5 | 4.8 | 3.4 | 6.4 | 6.1 | 8.1 | 9.8 | 13.0 | 9.8 | 21.0 | 15.0 | 30.0 | 18.9 | 33.1 | 20.0 | 39.0 | 21.8 | 48.0 | 34.0 | 180.0 | 34.0 |
| 25.2 | 0.0 | 0.0 | 1.6 | 0.4 | 3.2 | 1.6 | 4.8 | 3.5 | 6.4 | 6.2 | 8.0 | 9.8 | 12.8 | 9.8 | 21.0 | 15.2 | 30.0 | 19.1 | 32.7 | 20.0 | 39.0 | 21.9 | 48.0 | 34.1 | 180.0 | 34.1 |
| 25.3 | 0.0 | 0.0 | 1.5 | 0.4 | 3.1 | 1.5 | 4.7 | 3.4 | 6.3 | 6.2 | 7.9 | 9.8 | 12.7 | 9.8 | 21.0 | 15.3 | 30.0 | 19.2 | 32.2 | 20.0 | 39.0 | 22.1 | 48.0 | 34.3 | 180.0 | 34.3 |
| 25.4 | 0.0 | 0.0 | 1.5 | 0.4 | 3.1 | 1.5 | 4.7 | 3.5 | 6.2 | 6.1 | 7.9 | 9.9 | 12.5 | 9.9 | 21.0 | 15.5 | 30.0 | 19.4 | 31.8 | 20.0 | 39.0 | 22.2 | 48.0 | 34.4 | 180.0 | 34.4 |
| 25.5 | 0.0 | 0.0 | 1.5 | 0.4 | 3.1 | 1.6 | 4.6 | 3.5 | 6.2 | 6.3 | 7.8 | 9.9 | 12.4 | 9.9 | 21.0 | 15.6 | 30.0 | 19.5 | 31.4 | 20.0 | 39.0 | 22.4 | 48.0 | 34.6 | 180.0 | 34.6 |
| 25.6 | 0.0 | 0.0 | 1.5 | 0.4 | 3.0 | 1.5 | 4.6 | 3.5 | 6.1 | 6.2 | 7.7 | 9.9 | 12.2 | 9.9 | 21.0 | 15.8 | 30.0 | 19.7 | 30.9 | 20.0 | 39.0 | 22.5 | 48.0 | 34.7 | 180.0 | 34.7 |
| 25.7 | 0.0 | 0.0 | 1.5 | 0.4 | 3.0 | 1.5 | 4.5 | 3.5 | 6.0 | 6.2 | 7.6 | 9.9 | 12.1 | 9.9 | 21.0 | 15.9 | 30.0 | 19.8 | 30.5 | 20.0 | 39.0 | 22.7 | 48.0 | 34.9 | 180.0 | 34.9 |
| 25.8 | 0.0 | 0.0 | 1.5 | 0.4 | 3.0 | 1.6 | 4.5 | 3.5 | 6.0 | 6.3 | 7.5 | 10.0 | 11.9 | 10.0 | 21.0 | 16.1 | 30.0 | 20.0 | 30.1 | 20.0 | 39.0 | 22.8 | 48.0 | 35.0 | 180.0 | 35.0 |
| 25.9 | 0.0 | 0.0 | 1.4 | 0.4 | 2.9 | 1.5 | 4.4 | 3.5 | 5.9 | 6.2 | 7.5 | 10.0 | 11.8 | 10.0 | 20.0 | 15.7 | 29.0 | 19.7 | 29.7 | 20.0 | 39.0 | 23.0 | 48.0 | 35.2 | 180.0 | 35.2 |
| 26 | 0.0 | 0.0 | 1.4 | 0.4 | 2.9 | 1.5 | 4.4 | 3.6 | 5.9 | 6.4 | 7.4 | 10.0 | 11.7 | 10.0 | 20.0 | 15.9 | 29.0 | 19.9 | 29.3 | 20.0 | 38.0 | 22.8 | 48.0 | 35.3 | 180.0 | 35.3 |
| 26.1 | 0.0 | 0.0 | 1.4 | 0.4 | 2.9 | 1.6 | 4.3 | 3.5 | 5.8 | 6.3 | 7.3 | 10.0 | 11.5 | 10.0 | 20.0 | 16.0 | 28.9 | 20.0 | 29.0 | 20.0 | 38.0 | 23.0 | 48.0 | 35.5 | 180.0 | 35.5 |
| 26.2 | 0.0 | 0.0 | 1.4 | 0.4 | 2.8 | 1.5 | 4.3 | 3.6 | 5.7 | 6.2 | 7.2 | 10.1 | 11.4 | 10.1 | 20.0 | 16.2 | 28.5 | 20.0 | 29.0 | 20.2 | 38.0 | 23.1 | 48.0 | 35.6 | 180.0 | 35.6 |
| 26.3 | 0.0 | 0.0 | 1.4 | 0.4 | 2.8 | 1.5 | 4.2 | 3.5 | 5.7 | 6.4 | 7.2 | 10.1 | 11.3 | 10.1 | 20.0 | 16.3 | 28.1 | 20.0 | 29.0 | 20.3 | 38.0 | 23.3 | 48.0 | 35.8 | 180.0 | 35.8 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| GAIN | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. |
| 26.4 | 0.0 | 0.0 | 1.4 | 0.4 | 2.8 | 1.6 | 4.2 | 3.5 | 5.6 | 6.3 | 7.1 | 10.1 | 11.2 | 10.1 | 20.0 | 16.5 | 27.7 | 20.0 | 29.0 | 20.5 | 38.0 | 23.4 | 48.0 | 35.9 | 180.0 | 35.9 |
| 26.5 | 0.0 | 0.0 | 1.4 | 0.4 | 2.8 | 1.6 | 4.2 | 3.6 | 5.6 | 6.5 | 7.0 | 10.1 | 11.0 | 10.1 | 20.0 | 16.6 | 27.3 | 20.0 | 29.0 | 20.6 | 38.0 | 23.6 | 48.0 | 36.1 | 180.0 | 36.1 |
| 26.6 | 0.0 | 0.0 | 1.3 | 0.4 | 2.7 | 1.5 | 4.1 | 3.5 | 5.5 | 6.4 | 6.9 | 10.2 | 10.9 | 10.2 | 20.0 | 16.8 | 26.9 | 20.0 | 29.0 | 20.8 | 38.0 | 23.7 | 48.0 | 36.2 | 180.0 | 36.2 |
| 26.7 | 0.0 | 0.0 | 1.3 | 0.4 | 2.7 | 1.6 | 4.1 | 3.6 | 5.5 | 6.5 | 6.9 | 10.2 | 10.8 | 10.2 | 20.0 | 16.9 | 26.6 | 20.0 | 29.0 | 20.9 | 38.0 | 23.9 | 48.0 | 36.4 | 180.0 | 36.4 |
| 26.8 | 0.0 | 0.0 | 1.3 | 0.4 | 2.7 | 1.6 | 4.0 | 3.5 | 5.4 | 6.4 | 6.8 | 10.2 | 10.6 | 10.2 | 20.0 | 17.1 | 26.2 | 20.0 | 29.0 | 21.1 | 38.0 | 24.0 | 48.0 | 36.5 | 180.0 | 36.5 |
| 26.9 | 0.0 | 0.0 | 1.3 | 0.4 | 2.6 | 1.5 | 4.0 | 3.6 | 5.3 | 6.3 | 6.7 | 10.2 | 10.5 | 10.2 | 19.0 | 16.6 | 25.8 | 20.0 | 29.0 | 21.2 | 38.0 | 24.2 | 48.0 | 36.7 | 180.0 | 36.7 |
| 27 | 0.0 | 0.0 | 1.3 | 0.4 | 2.6 | 1.6 | 4.0 | 3.7 | 5.3 | 6.5 | 6.7 | 10.3 | 10.4 | 10.3 | 19.0 | 16.8 | 29.0 | 21.4 | 38.0 | 24.3 | 40.4 | 25.0 | 48.0 | 36.8 | 180.0 | 36.8 |
| 27.1 | 0.0 | 0.0 | 1.3 | 0.4 | 2.6 | 1.6 | 3.9 | 3.6 | 5.2 | 6.4 | 6.6 | 10.3 | 10.3 | 10.3 | 19.0 | 16.9 | 29.0 | 21.5 | 38.0 | 24.5 | 39.8 | 25.0 | 48.0 | 37.0 | 180.0 | 37.0 |
| 27.2 | 0.0 | 0.0 | 1.3 | 0.4 | 2.6 | 1.6 | 3.9 | 3.7 | 5.2 | 6.5 | 6.5 | 10.3 | 10.2 | 10.3 | 19.0 | 17.1 | 29.0 | 21.7 | 38.0 | 24.6 | 39.3 | 25.0 | 48.0 | 37.1 | 180.0 | 37.1 |
| 27.3 | 0.0 | 0.0 | 1.2 | 0.4 | 2.5 | 1.5 | 3.8 | 3.6 | 5.1 | 6.4 | 6.5 | 10.3 | 10.1 | 10.3 | 19.0 | 17.2 | 29.0 | 21.8 | 38.0 | 24.8 | 38.8 | 25.0 | 48.0 | 37.3 | 180.0 | 37.3 |
| 27.4 | 0.0 | 0.0 | 1.2 | 0.4 | 2.5 | 1.6 | 3.8 | 3.7 | 5.1 | 6.6 | 6.4 | 10.4 | 9.9 | 10.4 | 19.0 | 17.4 | 29.0 | 22.0 | 38.0 | 24.9 | 38.2 | 25.0 | 48.0 | 37.4 | 180.0 | 37.4 |
| 27.5 | 0.0 | 0.0 | 1.2 | 0.4 | 2.5 | 1.6 | 3.7 | 3.5 | 5.0 | 6.5 | 6.3 | 10.4 | 9.8 | 10.4 | 19.0 | 17.5 | 28.0 | 21.8 | 37.7 | 25.0 | 38.0 | 25.1 | 48.0 | 37.6 | 180.0 | 37.6 |
| 27.6 | 0.0 | 0.0 | 1.2 | 0.4 | 2.5 | 1.7 | 3.7 | 3.6 | 5.0 | 6.6 | 6.3 | 10.4 | 9.7 | 10.4 | 19.0 | 17.7 | 28.0 | 21.9 | 37.2 | 25.0 | 38.0 | 25.2 | 48.0 | 37.7 | 180.0 | 37.7 |
| 27.7 | 0.0 | 0.0 | 1.2 | 0.4 | 2.4 | 1.6 | 3.7 | 3.7 | 4.9 | 6.5 | 6.2 | 10.4 | 9.6 | 10.4 | 19.0 | 17.8 | 28.0 | 22.1 | 36.7 | 25.0 | 38.0 | 25.4 | 48.0 | 37.9 | 180.0 | 37.9 |
| 27.8 | 0.0 | 0.0 | 1.2 | 0.4 | 2.4 | 1.6 | 3.6 | 3.6 | 4.9 | 6.7 | 6.1 | 10.5 | 9.5 | 10.5 | 19.0 | 18.0 | 28.0 | 22.2 | 36.2 | 25.0 | 38.0 | 25.5 | 48.0 | 38.0 | 180.0 | 38.0 |
| 27.9 | 0.0 | 0.0 | 1.2 | 0.4 | 2.4 | 1.6 | 3.6 | 3.7 | 4.8 | 6.5 | 6.1 | 10.5 | 9.4 | 10.5 | 19.0 | 18.1 | 28.0 | 22.4 | 35.7 | 25.0 | 38.0 | 25.7 | 48.0 | 38.2 | 180.0 | 38.2 |
| 28 | 0.0 | 0.0 | 1.2 | 0.4 | 2.4 | 1.7 | 3.6 | 3.8 | 4.8 | 6.7 | 6.0 | 10.5 | 9.3 | 10.5 | 19.0 | 18.3 | 28.0 | 22.5 | 35.2 | 25.0 | 38.0 | 25.8 | 48.0 | 38.3 | 180.0 | 38.3 |
| 28.1 | 0.0 | 0.0 | 1.1 | 0.4 | 2.3 | 1.6 | 3.5 | 3.6 | 4.7 | 6.6 | 6.0 | 10.5 | 9.2 | 10.5 | 18.0 | 17.9 | 28.0 | 22.7 | 34.7 | 25.0 | 38.0 | 26.0 | 48.0 | 38.5 | 180.0 | 38.5 |
| 28.2 | 0.0 | 0.0 | 1.1 | 0.4 | 2.3 | 1.6 | 3.5 | 3.7 | 4.7 | 6.7 | 5.9 | 10.6 | 9.1 | 10.6 | 18.0 | 18.0 | 28.0 | 22.8 | 34.2 | 25.0 | 38.0 | 26.1 | 48.0 | 38.6 | 180.0 | 38.6 |
| 28.3 | 0.0 | 0.0 | 1.1 | 0.4 | 2.3 | 1.6 | 3.4 | 3.6 | 4.6 | 6.6 | 5.8 | 10.6 | 9.0 | 10.6 | 18.0 | 18.2 | 28.0 | 23.0 | 33.8 | 25.0 | 38.0 | 26.3 | 48.0 | 38.8 | 180.0 | 38.8 |
| 28.4 | 0.0 | 0.0 | 1.1 | 0.4 | 2.3 | 1.7 | 3.4 | 3.7 | 4.6 | 6.7 | 5.8 | 10.6 | 8.9 | 10.6 | 18.0 | 18.3 | 28.0 | 23.1 | 33.3 | 25.0 | 38.0 | 26.4 | 48.0 | 38.9 | 180.0 | 38.9 |
| 28.5 | 0.0 | 0.0 | 1.1 | 0.4 | 2.2 | 1.6 | 3.4 | 3.8 | 4.5 | 6.6 | 5.7 | 10.6 | 8.8 | 10.6 | 18.0 | 18.5 | 28.0 | 23.3 | 32.8 | 25.0 | 38.0 | 26.6 | 48.0 | 39.1 | 180.0 | 39.1 |
| 28.6 | 0.0 | 0.0 | 1.1 | 0.4 | 2.2 | 1.6 | 3.3 | 3.6 | 4.5 | 6.8 | 5.7 | 10.7 | 8.7 | 10.7 | 18.0 | 18.6 | 28.0 | 23.4 | 32.4 | 25.0 | 38.0 | 26.7 | 48.0 | 39.2 | 180.0 | 39.2 |
| 28.7 | 0.0 | 0.0 | 1.1 | 0.4 | 2.2 | 1.7 | 3.3 | 3.7 | 4.4 | 6.6 | 5.6 | 10.7 | 8.6 | 10.7 | 18.0 | 18.8 | 28.0 | 23.6 | 31.9 | 25.0 | 38.0 | 26.9 | 48.0 | 39.4 | 180.0 | 39.4 |
| 28.8 | 0.0 | 0.0 | 1.1 | 0.4 | 2.2 | 1.7 | 3.3 | 3.8 | 4.4 | 6.8 | 5.5 | 10.7 | 8.5 | 10.7 | 18.0 | 18.9 | 28.0 | 23.7 | 31.5 | 25.0 | 38.0 | 27.0 | 48.0 | 39.5 | 180.0 | 39.5 |
| 28.9 | 0.0 | 0.0 | 1.0 | 0.4 | 2.1 | 1.6 | 3.2 | 3.7 | 4.3 | 6.6 | 5.5 | 10.7 | 8.4 | 10.7 | 18.0 | 19.1 | 28.0 | 23.9 | 31.1 | 25.0 | 38.0 | 27.2 | 48.0 | 39.7 | 180.0 | 39.7 |
| 29 | 0.0 | 0.0 | 1.0 | 0.4 | 2.1 | 1.6 | 3.2 | 3.7 | 4.3 | 6.8 | 5.4 | 10.8 | 8.3 | 10.8 | 18.0 | 19.2 | 28.0 | 24.0 | 30.6 | 25.0 | 38.0 | 27.3 | 48.0 | 39.8 | 180.0 | 39.8 |
| 29.1 | 0.0 | 0.0 | 1.0 | 0.4 | 2.1 | 1.7 | 3.2 | 3.8 | 4.2 | 6.6 | 5.4 | 10.8 | 8.2 | 10.8 | 18.0 | 19.4 | 28.0 | 24.2 | 30.2 | 25.0 | 38.0 | 27.5 | 48.0 | 40.0 | 180.0 | 40.0 |
| 29.2 | 0.0 | 0.0 | 1.0 | 0.4 | 2.1 | 1.7 | 3.1 | 3.7 | 4.2 | 6.8 | 5.3 | 10.8 | 8.1 | 10.8 | 18.0 | 19.5 | 28.0 | 24.3 | 29.8 | 25.0 | 38.0 | 27.6 | 48.0 | 40.1 | 180.0 | 40.1 |
| 29.3 | 0.0 | 0.0 | 1.0 | 0.4 | 2.1 | 1.7 | 3.1 | 3.8 | 4.2 | 6.9 | 5.3 | 10.8 | 8.0 | 10.8 | 18.0 | 19.7 | 28.0 | 24.5 | 29.4 | 25.0 | 38.0 | 27.8 | 48.0 | 40.3 | 180.0 | 40.3 |
| 29.4 | 0.0 | 0.0 | 1.0 | 0.4 | 2.0 | 1.6 | 3.1 | 3.9 | 4.1 | 6.7 | 5.2 | 10.9 | 7.9 | 10.9 | 17.0 | 19.2 | 27.0 | 24.2 | 29.0 | 25.0 | 38.0 | 27.9 | 48.0 | 40.4 | 180.0 | 40.4 |
| 29.5 | 0.0 | 0.0 | 1.0 | 0.4 | 2.0 | 1.6 | 3.0 | 3.7 | 4.1 | 6.9 | 5.1 | 10.9 | 7.8 | 10.9 | 17.0 | 19.3 | 27.0 | 24.4 | 28.6 | 25.0 | 38.0 | 28.1 | 48.0 | 40.6 | 180.0 | 40.6 |
| GAIN | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. |
| 29.6 | 0.0 | 0.0 | 1.0 | 0.4 | 2.0 | 1.7 | 3.0 | 3.8 | 4.0 | 6.7 | 5.1 | 10.9 | 7.7 | 10.9 | 17.0 | 19.5 | 27.0 | 24.5 | 28.2 | 25.0 | 37.0 | 27.9 | 48.0 | 40.7 | 180.0 | 40.7 |
| 29.7 | 0.0 | 0.0 | 1.0 | 0.4 | 2.0 | 1.7 | 3.0 | 3.9 | 4.0 | 6.9 | 5.0 | 10.9 | 7.6 | 10.9 | 17.0 | 19.6 | 27.0 | 24.7 | 27.8 | 25.0 | 37.0 | 28.1 | 48.0 | 40.9 | 180.0 | 40.9 |
| 29.8 | 0.0 | 0.0 | 0.9 | 0.4 | 1.9 | 1.6 | 2.9 | 3.7 | 3.9 | 6.7 | 5.0 | 11.0 | 7.5 | 11.0 | 17.0 | 19.8 | 27.0 | 24.8 | 27.4 | 25.0 | 37.0 | 28.2 | 48.0 | 41.0 | 180.0 | 41.0 |
| 29.9 | 0.0 | 0.0 | 0.9 | 0.4 | 1.9 | 1.6 | 2.9 | 3.8 | 3.9 | 6.8 | 4.9 | 11.0 | 7.5 | 11.0 | 17.0 | 19.9 | 27.0 | 25.0 | 27.0 | 25.0 | 37.0 | 28.4 | 48.0 | 41.2 | 180.0 | 41.2 |
| 30 | 0.0 | 0.0 | 0.9 | 0.4 | 1.9 | 1.7 | 2.9 | 3.9 | 3.9 | 7.0 | 4.9 | 11.0 | 7.4 | 11.0 | 17.0 | 20.1 | 27.0 | 25.1 | 37.0 | 28.5 | 42.3 | 30.0 | 48.0 | 41.3 | 180.0 | 41.3 |
| 30.1 | 0.0 | 0.0 | 0.9 | 0.4 | 1.9 | 1.7 | 2.9 | 4.0 | 3.8 | 6.8 | 4.8 | 11.0 | 7.3 | 11.0 | 17.0 | 20.2 | 27.0 | 25.3 | 37.0 | 28.7 | 41.7 | 30.0 | 48.0 | 41.5 | 180.0 | 41.5 |
| 30.2 | 0.0 | 0.0 | 0.9 | 0.4 | 1.9 | 1.7 | 2.8 | 3.8 | 3.8 | 7.0 | 4.8 | 11.1 | 7.2 | 11.1 | 17.0 | 20.4 | 27.0 | 25.4 | 37.0 | 28.8 | 41.2 | 30.0 | 48.0 | 41.6 | 180.0 | 41.6 |
| 30.3 | 0.0 | 0.0 | 0.9 | 0.4 | 1.8 | 1.6 | 2.8 | 3.9 | 3.7 | 6.8 | 4.7 | 11.1 | 7.1 | 11.1 | 17.0 | 20.5 | 27.0 | 25.6 | 37.0 | 29.0 | 40.6 | 30.0 | 48.0 | 41.8 | 180.0 | 41.8 |
| 30.4 | 0.0 | 0.0 | 0.9 | 0.4 | 1.8 | 1.6 | 2.8 | 4.0 | 3.7 | 6.9 | 4.7 | 11.1 | 7.0 | 11.1 | 17.0 | 20.7 | 27.0 | 25.7 | 37.0 | 29.1 | 40.0 | 30.0 | 48.0 | 41.9 | 180.0 | 41.9 |
| 30.5 | 0.0 | 0.0 | 0.9 | 0.4 | 1.8 | 1.7 | 2.7 | 3.8 | 3.7 | 7.1 | 4.6 | 11.1 | 7.0 | 11.1 | 17.0 | 20.8 | 27.0 | 25.9 | 37.0 | 29.3 | 39.5 | 30.0 | 48.0 | 42.1 | 180.0 | 42.1 |
| 30.6 | 0.0 | 0.0 | 0.9 | 0.4 | 1.8 | 1.7 | 2.7 | 3.9 | 3.6 | 6.9 | 4.6 | 11.2 | 6.9 | 11.2 | 17.0 | 21.0 | 27.0 | 26.0 | 37.0 | 29.4 | 38.9 | 30.0 | 48.0 | 42.2 | 180.0 | 42.2 |
| 30.7 | 0.0 | 0.0 | 0.9 | 0.4 | 1.8 | 1.8 | 2.7 | 3.9 | 3.6 | 7.0 | 4.5 | 11.2 | 6.8 | 11.2 | 17.0 | 21.1 | 27.0 | 26.2 | 37.0 | 29.6 | 38.4 | 30.0 | 48.0 | 42.4 | 180.0 | 42.4 |
| 30.8 | 0.0 | 0.0 | 0.8 | 0.4 | 1.7 | 1.6 | 2.6 | 3.7 | 3.5 | 6.8 | 4.5 | 11.2 | 6.7 | 11.2 | 17.0 | 21.3 | 27.0 | 26.3 | 37.0 | 29.7 | 37.9 | 30.0 | 48.0 | 42.5 | 180.0 | 42.5 |
| 30.9 | 0.0 | 0.0 | 0.8 | 0.4 | 1.7 | 1.6 | 2.6 | 3.8 | 3.5 | 6.9 | 4.5 | 11.2 | 6.6 | 11.2 | 17.0 | 21.4 | 27.0 | 26.5 | 37.0 | 29.9 | 37.4 | 30.0 | 48.0 | 42.7 | 180.0 | 42.7 |
| 31 | 0.0 | 0.0 | 0.8 | 0.4 | 1.7 | 1.7 | 2.6 | 3.9 | 3.5 | 7.1 | 4.4 | 11.3 | 6.6 | 11.3 | 16.0 | 20.9 | 27.0 | 26.6 | 36.8 | 30.0 | 37.0 | 30.0 | 48.0 | 42.8 | 180.0 | 42.8 |
| 31.1 | 0.0 | 0.0 | 0.8 | 0.4 | 1.7 | 1.7 | 2.6 | 4.0 | 3.4 | 6.9 | 4.4 | 11.3 | 6.5 | 11.3 | 16.0 | 21.1 | 27.0 | 26.8 | 36.3 | 30.0 | 37.0 | 30.2 | 48.0 | 43.0 | 180.0 | 43.0 |
| 31.2 | 0.0 | 0.0 | 0.8 | 0.4 | 1.7 | 1.8 | 2.5 | 3.8 | 3.4 | 7.0 | 4.3 | 11.3 | 6.4 | 11.3 | 16.0 | 21.2 | 27.0 | 26.9 | 35.8 | 30.0 | 37.0 | 30.3 | 48.0 | 43.1 | 180.0 | 43.1 |
| 31.3 | 0.0 | 0.0 | 0.8 | 0.4 | 1.7 | 1.8 | 2.5 | 3.9 | 3.4 | 7.2 | 4.3 | 11.3 | 6.3 | 11.3 | 16.0 | 21.4 | 27.0 | 27.1 | 35.3 | 30.0 | 37.0 | 30.5 | 48.0 | 43.3 | 180.0 | 43.3 |
| 31.4 | 0.0 | 0.0 | 0.8 | 0.4 | 1.6 | 1.6 | 2.5 | 4.0 | 3.3 | 6.9 | 4.2 | 11.4 | 6.3 | 11.4 | 16.0 | 21.5 | 27.0 | 27.2 | 34.9 | 30.0 | 37.0 | 30.6 | 48.0 | 43.4 | 180.0 | 43.4 |
| 31.5 | 0.0 | 0.0 | 0.8 | 0.4 | 1.6 | 1.7 | 2.5 | 4.1 | 3.3 | 7.1 | 4.2 | 11.4 | 6.2 | 11.4 | 16.0 | 21.7 | 27.0 | 27.4 | 34.4 | 30.0 | 37.0 | 30.8 | 48.0 | 43.6 | 180.0 | 43.6 |
| 31.6 | 0.0 | 0.0 | 0.8 | 0.4 | 1.6 | 1.7 | 2.4 | 3.8 | 3.3 | 7.3 | 4.1 | 11.4 | 6.1 | 11.4 | 16.0 | 21.8 | 27.0 | 27.5 | 33.9 | 30.0 | 37.0 | 30.9 | 48.0 | 43.7 | 180.0 | 43.7 |
| 31.7 | 0.0 | 0.0 | 0.8 | 0.4 | 1.6 | 1.7 | 2.4 | 3.9 | 3.2 | 7.0 | 4.1 | 11.4 | 6.1 | 11.4 | 16.0 | 22.0 | 27.0 | 27.7 | 33.4 | 30.0 | 37.0 | 31.1 | 48.0 | 43.9 | 180.0 | 43.9 |
| 31.8 | 0.0 | 0.0 | 0.8 | 0.4 | 1.6 | 1.8 | 2.4 | 4.0 | 3.2 | 7.1 | 4.1 | 11.5 | 6.0 | 11.5 | 16.0 | 22.1 | 27.0 | 27.8 | 33.0 | 30.0 | 37.0 | 31.2 | 48.0 | 44.0 | 180.0 | 44.0 |
| 31.9 | 0.0 | 0.0 | 0.8 | 0.5 | 1.6 | 1.8 | 2.4 | 4.1 | 3.2 | 7.3 | 4.0 | 11.5 | 5.9 | 11.5 | 16.0 | 22.3 | 27.0 | 28.0 | 32.5 | 30.0 | 37.0 | 31.4 | 48.0 | 44.2 | 180.0 | 44.2 |
| 32 | 0.0 | 0.0 | 0.7 | 0.4 | 1.5 | 1.6 | 2.3 | 3.9 | 3.1 | 7.0 | 4.0 | 11.5 | 5.9 | 11.5 | 16.0 | 22.4 | 26.0 | 27.7 | 32.1 | 30.0 | 37.0 | 31.5 | 48.0 | 44.3 | 180.0 | 44.3 |
| 32.1 | 0.0 | 0.0 | 0.7 | 0.4 | 1.5 | 1.7 | 2.3 | 4.0 | 3.1 | 7.2 | 3.9 | 11.5 | 5.8 | 11.5 | 16.0 | 22.6 | 26.0 | 27.9 | 31.6 | 30.0 | 37.0 | 31.7 | 48.0 | 44.5 | 180.0 | 44.5 |
| 32.2 | 0.0 | 0.0 | 0.7 | 0.4 | 1.5 | 1.7 | 2.3 | 4.0 | 3.1 | 7.3 | 3.9 | 11.6 | 5.7 | 11.6 | 16.0 | 22.7 | 26.0 | 28.0 | 31.2 | 30.0 | 37.0 | 31.8 | 48.0 | 44.6 | 180.0 | 44.6 |
| 32.3 | 0.0 | 0.0 | 0.7 | 0.4 | 1.5 | 1.8 | 2.3 | 4.1 | 3.0 | 7.0 | 3.8 | 11.6 | 5.7 | 11.6 | 16.0 | 22.9 | 26.0 | 28.2 | 30.8 | 30.0 | 37.0 | 32.0 | 48.0 | 44.8 | 180.0 | 44.8 |
| 32.4 | 0.0 | 0.0 | 0.7 | 0.4 | 1.5 | 1.8 | 2.2 | 3.9 | 3.0 | 7.2 | 3.8 | 11.6 | 5.6 | 11.6 | 16.0 | 23.0 | 26.0 | 28.3 | 30.4 | 30.0 | 37.0 | 32.1 | 48.0 | 44.9 | 180.0 | 44.9 |
| 32.5 | 0.0 | 0.0 | 0.7 | 0.4 | 1.5 | 1.8 | 2.2 | 4.0 | 3.0 | 7.4 | 3.8 | 11.6 | 5.5 | 11.6 | 16.0 | 23.2 | 26.0 | 28.5 | 29.9 | 30.0 | 37.0 | 32.3 | 48.0 | 45.1 | 180.0 | 45.1 |
| 32.6 | 0.0 | 0.0 | 0.7 | 0.4 | 1.4 | 1.6 | 2.2 | 4.1 | 2.9 | 7.1 | 3.7 | 11.7 | 5.5 | 11.7 | 16.0 | 23.3 | 26.0 | 28.6 | 29.5 | 30.0 | 37.0 | 32.4 | 48.0 | 45.2 | 180.0 | 45.2 |
| 32.7 | 0.0 | 0.0 | 0.7 | 0.4 | 1.4 | 1.7 | 2.2 | 4.2 | 2.9 | 7.2 | 3.7 | 11.7 | 5.4 | 11.7 | 16.0 | 23.5 | 26.0 | 28.8 | 29.1 | 30.0 | 37.0 | 32.6 | 48.0 | 45.4 | 180.0 | 45.4 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| GAIN | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. |
| 32.8 | 0.0 | 0.0 | 0.7 | 0.4 | 1.4 | 1.7 | 2.1 | 3.9 | 2.9 | 7.4 | 3.7 | 11.7 | 5.3 | 11.7 | 16.0 | 23.6 | 26.0 | 28.9 | 28.7 | 30.0 | 37.0 | 32.7 | 48.0 | 45.5 | 180.0 | 45.5 |
| 32.9 | 0.0 | 0.0 | 0.7 | 0.4 | 1.4 | 1.8 | 2.1 | 4.0 | 2.8 | 7.0 | 3.6 | 11.7 | 5.3 | 11.7 | 16.0 | 23.8 | 26.0 | 29.1 | 28.3 | 30.0 | 37.0 | 32.9 | 48.0 | 45.7 | 180.0 | 45.7 |
| 33 | 0.0 | 0.0 | 0.7 | 0.5 | 1.4 | 1.8 | 2.1 | 4.1 | 2.8 | 7.2 | 3.6 | 11.8 | 5.2 | 11.8 | 15.0 | 23.2 | 26.0 | 29.2 | 27.9 | 30.0 | 37.0 | 33.0 | 48.0 | 45.8 | 180.0 | 45.8 |
| 33.1 | 0.0 | 0.0 | 0.7 | 0.5 | 1.4 | 1.8 | 2.1 | 4.1 | 2.8 | 7.4 | 3.5 | 11.8 | 5.2 | 11.8 | 15.0 | 23.4 | 26.0 | 29.4 | 27.6 | 30.0 | 37.0 | 33.2 | 48.0 | 46.0 | 180.0 | 46.0 |
| 33.2 | 0.0 | 0.0 | 0.7 | 0.5 | 1.4 | 1.9 | 2.1 | 4.2 | 2.8 | 7.5 | 3.5 | 11.8 | 5.1 | 11.8 | 15.0 | 23.5 | 26.0 | 29.5 | 27.2 | 30.0 | 37.0 | 33.3 | 48.0 | 46.1 | 180.0 | 46.1 |
| 33.3 | 0.0 | 0.0 | 0.6 | 0.4 | 1.3 | 1.7 | 2.0 | 3.9 | 2.7 | 7.2 | 3.5 | 11.8 | 5.0 | 11.8 | 15.0 | 23.7 | 26.0 | 29.7 | 26.8 | 30.0 | 37.0 | 33.5 | 48.0 | 46.3 | 180.0 | 46.3 |
| 33.4 | 0.0 | 0.0 | 0.6 | 0.4 | 1.3 | 1.7 | 2.0 | 4.0 | 2.7 | 7.3 | 3.4 | 11.9 | 5.0 | 11.9 | 15.0 | 23.8 | 26.0 | 29.8 | 26.4 | 30.0 | 37.0 | 33.6 | 48.0 | 46.4 | 180.0 | 46.4 |
| 33.5 | 0.0 | 0.0 | 0.6 | 0.4 | 1.3 | 1.7 | 2.0 | 4.1 | 2.7 | 7.5 | 3.4 | 11.9 | 4.9 | 11.9 | 15.0 | 24.0 | 26.0 | 30.0 | 26.1 | 30.0 | 37.0 | 33.8 | 48.0 | 46.6 | 180.0 | 46.6 |
| 33.6 | 0.0 | 0.0 | 0.6 | 0.4 | 1.3 | 1.8 | 2.0 | 4.2 | 2.6 | 7.1 | 3.4 | 11.9 | 4.9 | 11.9 | 15.0 | 24.1 | 25.7 | 30.0 | 26.0 | 30.1 | 37.0 | 33.9 | 48.0 | 46.7 | 180.0 | 46.7 |
| 33.7 | 0.0 | 0.0 | 0.6 | 0.4 | 1.3 | 1.8 | 1.9 | 3.9 | 2.6 | 7.3 | 3.3 | 11.9 | 4.8 | 11.9 | 15.0 | 24.3 | 25.4 | 30.0 | 26.0 | 30.3 | 37.0 | 34.1 | 48.0 | 46.9 | 180.0 | 46.9 |
| 33.8 | 0.0 | 0.0 | 0.6 | 0.4 | 1.3 | 1.9 | 1.9 | 4.0 | 2.6 | 7.5 | 3.3 | 12.0 | 4.8 | 12.0 | 15.0 | 24.4 | 25.0 | 30.0 | 26.0 | 30.4 | 37.0 | 34.2 | 48.0 | 47.0 | 180.0 | 47.0 |
| 33.9 | 0.0 | 0.0 | 0.6 | 0.4 | 1.3 | 1.9 | 1.9 | 4.1 | 2.6 | 7.6 | 3.3 | 12.0 | 4.7 | 12.0 | 15.0 | 24.6 | 24.7 | 30.0 | 26.0 | 30.6 | 37.0 | 34.4 | 48.0 | 47.2 | 180.0 | 47.2 |
| 34 | 0.0 | 0.0 | 0.6 | 0.4 | 1.2 | 1.7 | 1.9 | 4.2 | 2.5 | 7.2 | 3.2 | 12.0 | 4.6 | 12.0 | 15.0 | 24.7 | 24.3 | 30.0 | 26.0 | 30.7 | 37.0 | 34.5 | 48.0 | 47.3 | 180.0 | 47.3 |
| 34.1 | 0.0 | 0.0 | 0.6 | 0.4 | 1.2 | 1.7 | 1.9 | 4.3 | 2.5 | 7.4 | 3.2 | 12.0 | 4.6 | 12.0 | 15.0 | 24.9 | 24.0 | 30.0 | 26.0 | 30.9 | 37.0 | 34.7 | 48.0 | 47.5 | 180.0 | 47.5 |
| 34.2 | 0.0 | 0.0 | 0.6 | 0.4 | 1.2 | 1.7 | 1.8 | 3.9 | 2.5 | 7.6 | 3.2 | 12.1 | 4.5 | 12.1 | 15.0 | 25.0 | 23.7 | 30.0 | 26.0 | 31.0 | 37.0 | 34.8 | 48.0 | 47.6 | 180.0 | 47.6 |
| 34.3 | 0.0 | 0.0 | 0.6 | 0.4 | 1.2 | 1.8 | 1.8 | 4.0 | 2.4 | 7.1 | 3.1 | 12.1 | 4.5 | 12.1 | 15.0 | 25.2 | 23.3 | 30.0 | 26.0 | 31.2 | 37.0 | 35.0 | 48.0 | 47.8 | 180.0 | 47.8 |
| 34.4 | 0.0 | 0.0 | 0.6 | 0.5 | 1.2 | 1.8 | 1.8 | 4.1 | 2.4 | 7.3 | 3.1 | 12.1 | 4.4 | 12.1 | 15.0 | 25.3 | 23.0 | 30.0 | 26.0 | 31.3 | 37.0 | 35.1 | 48.0 | 47.9 | 180.0 | 47.9 |
| 34.5 | 0.0 | 0.0 | 0.6 | 0.5 | 1.2 | 1.9 | 1.8 | 4.2 | 2.4 | 7.5 | 3.1 | 12.1 | 4.4 | 12.1 | 15.0 | 25.5 | 22.7 | 30.0 | 26.0 | 31.5 | 37.0 | 35.3 | 48.0 | 48.1 | 180.0 | 48.1 |
| 34.6 | 0.0 | 0.0 | 0.6 | 0.5 | 1.2 | 1.9 | 1.8 | 4.3 | 2.4 | 7.7 | 3.0 | 12.2 | 4.3 | 12.2 | 15.0 | 25.6 | 22.4 | 30.0 | 26.0 | 31.6 | 37.0 | 35.4 | 48.0 | 48.2 | 180.0 | 48.2 |
| 34.7 | 0.0 | 0.0 | 0.5 | 0.3 | 1.1 | 1.6 | 1.7 | 3.9 | 2.3 | 7.2 | 3.0 | 12.2 | 4.3 | 12.2 | 15.0 | 25.8 | 22.1 | 30.0 | 26.0 | 31.8 | 37.0 | 35.6 | 48.0 | 48.4 | 180.0 | 48.4 |
| 34.8 | 0.0 | 0.0 | 0.5 | 0.3 | 1.1 | 1.7 | 1.7 | 4.0 | 2.3 | 7.4 | 3.0 | 12.2 | 4.2 | 12.2 | 15.0 | 25.9 | 21.8 | 30.0 | 26.0 | 31.9 | 37.0 | 35.7 | 48.0 | 48.5 | 180.0 | 48.5 |
| 34.9 | 0.0 | 0.0 | 0.5 | 0.4 | 1.1 | 1.7 | 1.7 | 4.1 | 2.3 | 7.5 | 2.9 | 12.2 | 4.2 | 12.2 | 15.0 | 26.1 | 21.5 | 30.0 | 26.0 | 32.1 | 37.0 | 35.9 | 48.0 | 48.7 | 180.0 | 48.7 |
| 35 | 0.0 | 0.0 | 0.5 | 0.4 | 1.1 | 1.8 | 1.7 | 4.2 | 2.3 | 7.7 | 2.9 | 12.3 | 4.1 | 12.3 | 15.0 | 26.2 | 21.2 | 30.0 | 26.0 | 32.2 | 37.0 | 36.0 | 48.0 | 48.8 | 180.0 | 48.8 |
| 35.1 | 0.0 | 0.0 | 0.5 | 0.4 | 1.1 | 1.8 | 1.7 | 4.3 | 2.2 | 7.2 | 2.9 | 12.3 | 4.1 | 12.3 | 15.0 | 26.4 | 20.9 | 30.0 | 26.0 | 32.4 | 37.0 | 36.2 | 48.0 | 49.0 | 180.0 | 49.0 |
| 35.2 | 0.0 | 0.0 | 0.5 | 0.4 | 1.1 | 1.8 | 1.7 | 4.4 | 2.2 | 7.4 | 2.8 | 12.3 | 4.0 | 12.3 | 15.0 | 26.5 | 20.6 | 30.0 | 26.0 | 32.5 | 37.0 | 36.3 | 48.0 | 49.1 | 180.0 | 49.1 |
| 35.3 | 0.0 | 0.0 | 0.5 | 0.4 | 1.1 | 1.9 | 1.6 | 4.0 | 2.2 | 7.6 | 2.8 | 12.3 | 4.0 | 12.3 | 15.0 | 26.7 | 20.3 | 30.0 | 26.0 | 32.7 | 37.0 | 36.5 | 48.0 | 49.3 | 180.0 | 49.3 |
| 35.4 | 0.0 | 0.0 | 0.5 | 0.4 | 1.1 | 1.9 | 1.6 | 4.1 | 2.2 | 7.7 | 2.8 | 12.4 | 4.0 | 12.4 | 15.0 | 26.8 | 20.0 | 30.0 | 26.0 | 32.8 | 37.0 | 36.6 | 48.0 | 49.4 | 180.0 | 49.4 |
| 35.5 | 0.0 | 0.0 | 0.5 | 0.4 | 1.1 | 2.0 | 1.6 | 4.2 | 2.2 | 7.9 | 2.8 | 12.4 | 3.9 | 12.4 | 14.0 | 26.2 | 19.8 | 30.0 | 26.0 | 33.0 | 37.0 | 36.8 | 48.0 | 49.6 | 180.0 | 49.6 |
| 35.6 | 0.0 | 0.0 | 0.5 | 0.4 | 1.0 | 1.7 | 1.6 | 4.3 | 2.1 | 7.4 | 2.7 | 12.4 | 3.9 | 12.4 | 14.0 | 26.4 | 19.5 | 30.0 | 25.0 | 32.7 | 37.0 | 36.9 | 48.0 | 49.7 | 180.0 | 49.7 |
| 35.7 | 0.0 | 0.0 | 0.5 | 0.4 | 1.0 | 1.7 | 1.6 | 4.4 | 2.1 | 7.5 | 2.7 | 12.4 | 3.8 | 12.4 | 14.0 | 26.5 | 19.2 | 30.0 | 25.0 | 32.8 | 37.0 | 37.1 | 48.0 | 49.9 | 180.0 | 49.9 |
| 35.8 | 0.0 | 0.0 | 0.5 | 0.4 | 1.0 | 1.8 | 1.6 | 4.5 | 2.1 | 7.7 | 2.7 | 12.5 | 3.8 | 12.5 | 14.0 | 26.7 | 19.0 | 30.0 | 25.0 | 33.0 | 36.0 | 36.9 | 48.0 | 50.0 | 180.0 | 50.0 |
| 35.9 | 0.0 | 0.0 | 0.5 | 0.4 | 1.0 | 1.8 | 1.5 | 4.0 | 2.1 | 7.9 | 2.6 | 12.5 | 3.7 | 12.5 | 14.0 | 26.8 | 18.7 | 30.0 | 25.0 | 33.1 | 36.0 | 37.1 | 48.0 | 50.2 | 180.0 | 50.2 |
| GAIN | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. |
| 36 | 0.0 | 0.0 | 0.5 | 0.5 | 1.0 | 1.8 | 1.5 | 4.1 | 2.0 | 7.3 | 2.6 | 12.5 | 3.7 | 12.5 | 14.0 | 27.0 | 18.4 | 30.0 | 25.0 | 33.3 | 36.0 | 37.2 | 48.0 | 50.3 | 180.0 | 50.3 |
| 36.1 | 0.0 | 0.0 | 0.5 | 0.5 | 1.0 | 1.9 | 1.5 | 4.2 | 2.0 | 7.5 | 2.6 | 12.5 | 3.7 | 12.5 | 14.0 | 27.1 | 18.2 | 30.0 | 25.0 | 33.4 | 36.0 | 37.4 | 48.0 | 50.5 | 180.0 | 50.5 |
| 36.2 | 0.0 | 0.0 | 0.5 | 0.5 | 1.0 | 1.9 | 1.5 | 4.3 | 2.0 | 7.7 | 2.6 | 12.6 | 3.6 | 12.6 | 14.0 | 27.3 | 17.9 | 30.0 | 25.0 | 33.6 | 36.0 | 37.5 | 48.0 | 50.6 | 180.0 | 50.6 |
| 36.3 | 0.0 | 0.0 | 0.5 | 0.5 | 1.0 | 2.0 | 1.5 | 4.4 | 2.0 | 7.9 | 2.5 | 12.6 | 3.6 | 12.6 | 14.0 | 27.4 | 17.7 | 30.0 | 25.0 | 33.7 | 36.0 | 37.7 | 48.0 | 50.8 | 180.0 | 50.8 |
| 36.4 | 0.0 | 0.0 | 0.5 | 0.5 | 1.0 | 2.0 | 1.5 | 4.5 | 2.0 | 8.0 | 2.5 | 12.6 | 3.5 | 12.6 | 14.0 | 27.6 | 17.4 | 30.0 | 25.0 | 33.9 | 36.0 | 37.8 | 48.0 | 50.9 | 180.0 | 50.9 |
| 36.5 | 0.0 | 0.0 | 0.4 | 0.3 | 0.9 | 1.7 | 1.4 | 4.0 | 1.9 | 7.4 | 2.5 | 12.6 | 3.5 | 12.6 | 14.0 | 27.7 | 17.2 | 30.0 | 25.0 | 34.0 | 36.0 | 38.0 | 48.0 | 51.1 | 180.0 | 51.1 |
| 36.6 | 0.0 | 0.0 | 0.4 | 0.3 | 0.9 | 1.7 | 1.4 | 4.1 | 1.9 | 7.6 | 2.5 | 12.7 | 3.4 | 12.7 | 14.0 | 27.9 | 17.0 | 30.0 | 25.0 | 34.2 | 36.0 | 38.1 | 48.0 | 51.2 | 180.0 | 51.2 |
| 36.7 | 0.0 | 0.0 | 0.4 | 0.3 | 0.9 | 1.7 | 1.4 | 4.2 | 1.9 | 7.8 | 2.4 | 12.7 | 3.4 | 12.7 | 14.0 | 28.0 | 16.7 | 30.0 | 25.0 | 34.3 | 36.0 | 38.3 | 48.0 | 51.4 | 180.0 | 51.4 |
| 36.8 | 0.0 | 0.0 | 0.4 | 0.4 | 0.9 | 1.8 | 1.4 | 4.3 | 1.9 | 8.0 | 2.4 | 12.7 | 3.4 | 12.7 | 14.0 | 28.2 | 16.5 | 30.0 | 25.0 | 34.5 | 36.0 | 38.4 | 48.0 | 51.5 | 180.0 | 51.5 |
| 36.9 | 0.0 | 0.0 | 0.4 | 0.4 | 0.9 | 1.8 | 1.4 | 4.4 | 1.9 | 8.1 | 2.4 | 12.7 | 3.3 | 12.7 | 14.0 | 28.3 | 16.3 | 30.0 | 25.0 | 34.6 | 36.0 | 38.6 | 48.0 | 51.7 | 180.0 | 51.7 |
| 37 | 0.0 | 0.0 | 0.4 | 0.4 | 0.9 | 1.9 | 1.4 | 4.5 | 1.8 | 7.5 | 2.4 | 12.8 | 3.3 | 12.8 | 14.0 | 28.5 | 16.1 | 30.0 | 25.0 | 34.8 | 36.0 | 38.7 | 48.0 | 51.8 | 180.0 | 51.8 |
| 37.1 | 0.0 | 0.0 | 0.4 | 0.4 | 0.9 | 1.9 | 1.3 | 4.0 | 1.8 | 7.7 | 2.3 | 12.8 | 3.3 | 12.8 | 14.0 | 28.6 | 15.8 | 30.0 | 25.0 | 34.9 | 36.0 | 38.9 | 48.0 | 52.0 | 180.0 | 52.0 |
| 37.2 | 0.0 | 0.0 | 0.4 | 0.4 | 0.9 | 2.0 | 1.3 | 4.1 | 1.8 | 7.8 | 2.3 | 12.8 | 3.2 | 12.8 | 14.0 | 28.8 | 15.6 | 30.0 | 25.0 | 35.1 | 36.0 | 39.0 | 48.0 | 52.1 | 180.0 | 52.1 |
| 37.3 | 0.0 | 0.0 | 0.4 | 0.4 | 0.9 | 2.0 | 1.3 | 4.2 | 1.8 | 8.0 | 2.3 | 12.8 | 3.2 | 12.8 | 14.0 | 28.9 | 15.4 | 30.0 | 25.0 | 35.2 | 36.0 | 39.2 | 48.0 | 52.3 | 180.0 | 52.3 |
| 37.4 | 0.0 | 0.0 | 0.4 | 0.4 | 0.9 | 2.1 | 1.3 | 4.3 | 1.8 | 8.2 | 2.3 | 12.9 | 3.1 | 12.9 | 14.0 | 29.1 | 15.2 | 30.0 | 25.0 | 35.4 | 36.0 | 39.3 | 48.0 | 52.4 | 180.0 | 52.4 |
| 37.5 | 0.0 | 0.0 | 0.4 | 0.4 | 0.8 | 1.7 | 1.3 | 4.4 | 1.7 | 7.5 | 2.2 | 12.9 | 3.1 | 12.9 | 14.0 | 29.2 | 15.0 | 30.0 | 25.0 | 35.5 | 36.0 | 39.5 | 48.0 | 52.6 | 180.0 | 52.6 |
| 37.6 | 0.0 | 0.0 | 0.4 | 0.4 | 0.8 | 1.7 | 1.3 | 4.5 | 1.7 | 7.7 | 2.2 | 12.9 | 3.1 | 12.9 | 14.0 | 29.4 | 14.8 | 30.0 | 25.0 | 35.7 | 36.0 | 39.6 | 48.0 | 52.7 | 180.0 | 52.7 |
| 37.7 | 0.0 | 0.0 | 0.4 | 0.4 | 0.8 | 1.7 | 1.3 | 4.6 | 1.7 | 7.8 | 2.2 | 12.9 | 3.0 | 12.9 | 14.0 | 29.5 | 14.6 | 30.0 | 25.0 | 35.8 | 36.0 | 39.8 | 48.0 | 52.9 | 180.0 | 52.9 |
| 37.8 | 0.0 | 0.0 | 0.4 | 0.4 | 0.8 | 1.8 | 1.2 | 4.0 | 1.7 | 8.0 | 2.2 | 13.0 | 3.0 | 13.0 | 14.0 | 29.7 | 14.4 | 30.0 | 25.0 | 36.0 | 36.0 | 39.9 | 48.0 | 53.0 | 180.0 | 53.0 |
| 37.9 | 0.0 | 0.0 | 0.4 | 0.5 | 0.8 | 1.8 | 1.2 | 4.1 | 1.7 | 8.2 | 2.1 | 13.0 | 3.0 | 13.0 | 14.0 | 29.8 | 14.2 | 30.0 | 25.0 | 36.1 | 36.0 | 40.1 | 48.0 | 53.2 | 180.0 | 53.2 |
| 38 | 0.0 | 0.0 | 0.4 | 0.5 | 0.8 | 1.9 | 1.2 | 4.2 | 1.6 | 7.4 | 2.1 | 13.0 | 2.9 | 13.0 | 14.0 | 30.0 | 14.0 | 30.0 | 25.0 | 36.3 | 36.0 | 40.2 | 48.0 | 53.3 | 180.0 | 53.3 |
| 38.1 | 0.0 | 0.0 | 0.4 | 0.5 | 0.8 | 1.9 | 1.2 | 4.3 | 1.6 | 7.6 | 2.1 | 13.0 | 2.9 | 13.0 | 13.8 | 30.0 | 14.0 | 30.1 | 25.0 | 36.4 | 36.0 | 40.4 | 48.0 | 53.5 | 180.0 | 53.5 |
| 38.2 | 0.0 | 0.0 | 0.4 | 0.5 | 0.8 | 1.9 | 1.2 | 4.4 | 1.6 | 7.8 | 2.1 | 13.1 | 2.9 | 13.1 | 13.6 | 30.0 | 14.0 | 30.3 | 25.0 | 36.6 | 36.0 | 40.5 | 48.0 | 53.6 | 180.0 | 53.6 |
| 38.3 | 0.0 | 0.0 | 0.4 | 0.5 | 0.8 | 2.0 | 1.2 | 4.5 | 1.6 | 8.0 | 2.0 | 13.1 | 2.8 | 13.1 | 13.4 | 30.0 | 14.0 | 30.4 | 25.0 | 36.7 | 36.0 | 40.7 | 48.0 | 53.8 | 180.0 | 53.8 |
| 38.4 | 0.0 | 0.0 | 0.4 | 0.5 | 0.8 | 2.0 | 1.2 | 4.6 | 1.6 | 8.2 | 2.0 | 13.1 | 2.8 | 13.1 | 13.2 | 30.0 | 14.0 | 30.6 | 25.0 | 36.9 | 36.0 | 40.8 | 48.0 | 53.9 | 180.0 | 53.9 |
| 38.5 | 0.0 | 0.0 | 0.4 | 0.5 | 0.8 | 2.1 | 1.2 | 4.7 | 1.6 | 8.3 | 2.0 | 13.1 | 2.8 | 13.1 | 13.0 | 30.0 | 14.0 | 30.7 | 25.0 | 37.0 | 36.0 | 41.0 | 48.0 | 54.1 | 180.0 | 54.1 |
| 38.6 | 0.0 | 0.0 | 0.3 | 0.3 | 0.7 | 1.6 | 1.1 | 4.0 | 1.5 | 7.5 | 2.0 | 13.2 | 2.7 | 13.2 | 12.9 | 30.0 | 14.0 | 30.9 | 25.0 | 37.2 | 36.0 | 41.1 | 48.0 | 54.2 | 180.0 | 54.2 |
| 38.7 | 0.0 | 0.0 | 0.3 | 0.3 | 0.7 | 1.7 | 1.1 | 4.1 | 1.5 | 7.7 | 2.0 | 13.2 | 2.7 | 13.2 | 12.7 | 30.0 | 14.0 | 31.0 | 25.0 | 37.3 | 36.0 | 41.3 | 48.0 | 54.4 | 180.0 | 54.4 |
| 38.8 | 0.0 | 0.0 | 0.3 | 0.3 | 0.7 | 1.7 | 1.1 | 4.2 | 1.5 | 7.9 | 1.9 | 13.2 | 2.7 | 13.2 | 12.5 | 30.0 | 14.0 | 31.2 | 25.0 | 37.5 | 36.0 | 41.4 | 48.0 | 54.5 | 180.0 | 54.5 |
| 38.9 | 0.0 | 0.0 | 0.3 | 0.3 | 0.7 | 1.8 | 1.1 | 4.3 | 1.5 | 8.0 | 1.9 | 13.2 | 2.6 | 13.2 | 12.3 | 30.0 | 14.0 | 31.3 | 25.0 | 37.6 | 36.0 | 41.6 | 48.0 | 54.7 | 180.0 | 54.7 |
| 39 | 0.0 | 0.0 | 0.3 | 0.3 | 0.7 | 1.8 | 1.1 | 4.4 | 1.5 | 8.2 | 1.9 | 13.3 | 2.6 | 13.3 | 12.2 | 30.0 | 14.0 | 31.5 | 25.0 | 37.8 | 36.0 | 41.7 | 48.0 | 54.8 | 180.0 | 54.8 |
| 39.1 | 0.0 | 0.0 | 0.3 | 0.3 | 0.7 | 1.8 | 1.1 | 4.5 | 1.5 | 8.4 | 1.9 | 13.3 | 2.6 | 13.3 | 12.0 | 30.0 | 13.0 | 30.8 | 25.0 | 37.9 | 36.0 | 41.9 | 48.0 | 55.0 | 180.0 | 55.0 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| GAIN | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. |
| 39.2 | 0.0 | 0.0 | 0.3 | 0.3 | 0.7 | 1.9 | 1.1 | 4.6 | 1.4 | 7.5 | 1.9 | 13.3 | 2.6 | 13.3 | 11.8 | 30.0 | 13.0 | 31.0 | 25.0 | 38.1 | 36.0 | 42.0 | 48.0 | 55.1 | 180.0 | 55.1 |
| 39.3 | 0.0 | 0.0 | 0.3 | 0.4 | 0.7 | 1.9 | 1.1 | 4.7 | 1.4 | 7.7 | 1.8 | 13.3 | 2.5 | 13.3 | 11.7 | 30.0 | 13.0 | 31.1 | 25.0 | 38.2 | 36.0 | 42.2 | 48.0 | 55.3 | 180.0 | 55.3 |
| 39.4 | 0.0 | 0.0 | 0.3 | 0.4 | 0.7 | 2.0 | 1.0 | 4.0 | 1.4 | 7.9 | 1.8 | 13.4 | 2.5 | 13.4 | 11.5 | 30.0 | 13.0 | 31.3 | 25.0 | 38.4 | 36.0 | 42.3 | 48.0 | 55.4 | 180.0 | 55.4 |
| 39.5 | 0.0 | 0.0 | 0.3 | 0.4 | 0.7 | 2.0 | 1.0 | 4.1 | 1.4 | 8.0 | 1.8 | 13.4 | 2.5 | 13.4 | 11.4 | 30.0 | 13.0 | 31.4 | 25.0 | 38.5 | 36.0 | 42.5 | 48.0 | 55.6 | 180.0 | 55.6 |
| 39.6 | 0.0 | 0.0 | 0.3 | 0.4 | 0.7 | 2.1 | 1.0 | 4.2 | 1.4 | 8.2 | 1.8 | 13.4 | 2.4 | 13.4 | 11.2 | 30.0 | 13.0 | 31.6 | 25.0 | 38.7 | 36.0 | 42.6 | 48.0 | 55.7 | 180.0 | 55.7 |
| 39.7 | 0.0 | 0.0 | 0.3 | 0.4 | 0.7 | 2.1 | 1.0 | 4.3 | 1.4 | 8.4 | 1.8 | 13.4 | 2.4 | 13.4 | 11.0 | 30.0 | 13.0 | 31.7 | 25.0 | 38.8 | 36.0 | 42.8 | 48.0 | 55.9 | 180.0 | 55.9 |
| 39.8 | 0.0 | 0.0 | 0.3 | 0.4 | 0.6 | 1.6 | 1.0 | 4.4 | 1.3 | 7.4 | 1.7 | 13.5 | 2.4 | 13.5 | 10.9 | 30.0 | 13.0 | 31.9 | 25.0 | 39.0 | 36.0 | 42.9 | 48.0 | 56.0 | 180.0 | 56.0 |
| 39.9 | 0.0 | 0.0 | 0.3 | 0.4 | 0.6 | 1.6 | 1.0 | 4.5 | 1.3 | 7.6 | 1.7 | 13.5 | 2.4 | 13.5 | 10.7 | 30.0 | 13.0 | 32.0 | 25.0 | 39.1 | 36.0 | 43.1 | 48.0 | 56.2 | 180.0 | 56.2 |
| 40 | 0.0 | 0.0 | 0.3 | 0.4 | 0.6 | 1.7 | 1.0 | 4.6 | 1.3 | 7.8 | 1.7 | 13.5 | 2.3 | 13.5 | 10.6 | 30.0 | 13.0 | 32.2 | 25.0 | 39.3 | 36.0 | 43.2 | 48.0 | 56.3 | 180.0 | 56.3 |
| 40.1 | 0.0 | 0.0 | 0.3 | 0.4 | 0.6 | 1.7 | 1.0 | 4.7 | 1.3 | 8.0 | 1.7 | 13.5 | 2.3 | 13.5 | 10.4 | 30.0 | 13.0 | 32.3 | 25.0 | 39.4 | 36.0 | 43.4 | 48.0 | 56.5 | 180.0 | 56.5 |
| 40.2 | 0.0 | 0.0 | 0.3 | 0.4 | 0.6 | 1.7 | 1.0 | 4.8 | 1.3 | 8.2 | 1.7 | 13.6 | 2.3 | 13.6 | 10.3 | 30.0 | 13.0 | 32.5 | 25.0 | 39.6 | 36.0 | 43.5 | 48.0 | 56.6 | 180.0 | 56.6 |
| 40.3 | 0.0 | 0.0 | 0.3 | 0.4 | 0.6 | 1.8 | 0.9 | 4.0 | 1.3 | 8.3 | 1.7 | 13.6 | 2.3 | 13.6 | 10.2 | 30.0 | 13.0 | 32.6 | 25.0 | 39.7 | 36.0 | 43.7 | 48.0 | 56.8 | 180.0 | 56.8 |
| 40.4 | 0.0 | 0.0 | 0.3 | 0.5 | 0.6 | 1.8 | 0.9 | 4.1 | 1.3 | 8.5 | 1.6 | 13.6 | 2.2 | 13.6 | 10.0 | 30.0 | 13.0 | 32.8 | 25.0 | 39.9 | 36.0 | 43.8 | 48.0 | 56.9 | 180.0 | 56.9 |
| 40.5 | 0.0 | 0.0 | 0.3 | 0.5 | 0.6 | 1.9 | 0.9 | 4.2 | 1.2 | 7.4 | 1.6 | 13.6 | 2.2 | 13.6 | 9.9 | 30.0 | 13.0 | 32.9 | 25.0 | 40.0 | 36.0 | 44.0 | 48.0 | 57.1 | 180.0 | 57.1 |
| 40.6 | 0.0 | 0.0 | 0.3 | 0.5 | 0.6 | 1.9 | 0.9 | 4.3 | 1.2 | 7.6 | 1.6 | 13.7 | 2.2 | 13.7 | 9.7 | 30.0 | 13.0 | 33.1 | 25.0 | 40.2 | 36.0 | 44.1 | 48.0 | 57.2 | 180.0 | 57.2 |
| 40.7 | 0.0 | 0.0 | 0.3 | 0.5 | 0.6 | 1.9 | 0.9 | 4.4 | 1.2 | 7.8 | 1.6 | 13.7 | 2.1 | 13.7 | 9.6 | 30.0 | 13.0 | 33.2 | 25.0 | 40.3 | 36.0 | 44.3 | 48.0 | 57.4 | 180.0 | 57.4 |
| 40.8 | 0.0 | 0.0 | 0.3 | 0.5 | 0.6 | 2.0 | 0.9 | 4.5 | 1.2 | 8.0 | 1.6 | 13.7 | 2.1 | 13.7 | 9.5 | 30.0 | 13.0 | 33.4 | 25.0 | 40.5 | 36.0 | 44.4 | 48.0 | 57.5 | 180.0 | 57.5 |
| 40.9 | 0.0 | 0.0 | 0.3 | 0.5 | 0.6 | 2.0 | 0.9 | 4.6 | 1.2 | 8.2 | 1.6 | 13.7 | 2.1 | 13.7 | 9.3 | 30.0 | 13.0 | 33.5 | 25.0 | 40.6 | 36.0 | 44.6 | 48.0 | 57.7 | 180.0 | 57.7 |
| 41 | 0.0 | 0.0 | 0.3 | 0.5 | 0.6 | 2.1 | 0.9 | 4.7 | 1.2 | 8.4 | 1.5 | 13.8 | 2.1 | 13.8 | 9.2 | 30.0 | 13.0 | 33.7 | 25.0 | 40.8 | 36.0 | 44.7 | 48.0 | 57.8 | 180.0 | 57.8 |
| 41.1 | 0.0 | 0.0 | 0.3 | 0.5 | 0.6 | 2.1 | 0.9 | 4.8 | 1.2 | 8.5 | 1.5 | 13.8 | 2.1 | 13.8 | 9.1 | 30.0 | 13.0 | 33.8 | 25.0 | 40.9 | 36.0 | 44.9 | 48.0 | 58.0 | 180.0 | 58.0 |
| 41.2 | 0.0 | 0.0 | 0.3 | 0.5 | 0.6 | 2.2 | 0.9 | 4.9 | 1.2 | 8.7 | 1.5 | 13.8 | 2.0 | 13.8 | 9.0 | 30.0 | 13.0 | 34.0 | 25.0 | 41.1 | 36.0 | 45.0 | 48.0 | 58.1 | 180.0 | 58.1 |
| 41.3 | 0.0 | 0.0 | 0.2 | 0.2 | 0.5 | 1.6 | 0.8 | 4.0 | 1.1 | 7.5 | 1.5 | 13.8 | 2.0 | 13.8 | 8.8 | 30.0 | 13.0 | 34.1 | 25.0 | 41.2 | 36.0 | 45.2 | 48.0 | 58.3 | 180.0 | 58.3 |
| 41.4 | 0.0 | 0.0 | 0.2 | 0.3 | 0.5 | 1.6 | 0.8 | 4.1 | 1.1 | 7.7 | 1.5 | 13.9 | 2.0 | 13.9 | 8.7 | 30.0 | 13.0 | 34.3 | 25.0 | 41.4 | 36.0 | 45.3 | 48.0 | 58.4 | 180.0 | 58.4 |
| 41.5 | 0.0 | 0.0 | 0.2 | 0.3 | 0.5 | 1.6 | 0.8 | 4.2 | 1.1 | 7.9 | 1.5 | 13.9 | 2.0 | 13.9 | 8.6 | 30.0 | 13.0 | 34.4 | 25.0 | 41.5 | 36.0 | 45.5 | 48.0 | 58.6 | 180.0 | 58.6 |
| 41.6 | 0.0 | 0.0 | 0.2 | 0.3 | 0.5 | 1.7 | 0.8 | 4.3 | 1.1 | 8.1 | 1.4 | 13.9 | 1.9 | 13.9 | 8.5 | 30.0 | 13.0 | 34.6 | 25.0 | 41.7 | 36.0 | 45.6 | 48.0 | 58.7 | 180.0 | 58.7 |
| 41.7 | 0.0 | 0.0 | 0.2 | 0.3 | 0.5 | 1.7 | 0.8 | 4.4 | 1.1 | 8.2 | 1.4 | 13.9 | 1.9 | 13.9 | 8.4 | 30.0 | 13.0 | 34.7 | 25.0 | 41.8 | 36.0 | 45.8 | 48.0 | 58.9 | 180.0 | 58.9 |
| 41.8 | 0.0 | 0.0 | 0.2 | 0.3 | 0.5 | 1.7 | 0.8 | 4.5 | 1.1 | 8.4 | 1.4 | 14.0 | 1.9 | 14.0 | 8.2 | 30.0 | 13.0 | 34.9 | 24.0 | 41.5 | 36.0 | 45.9 | 48.0 | 59.0 | 180.0 | 59.0 |
| 41.9 | 0.0 | 0.0 | 0.2 | 0.3 | 0.5 | 1.8 | 0.8 | 4.6 | 1.1 | 8.6 | 1.4 | 14.0 | 1.9 | 14.0 | 8.1 | 30.0 | 13.0 | 35.0 | 24.0 | 41.7 | 36.0 | 46.1 | 48.0 | 59.2 | 180.0 | 59.2 |
| 42 | 0.0 | 0.0 | 0.2 | 0.3 | 0.5 | 1.8 | 0.8 | 4.7 | 1.1 | 8.8 | 1.4 | 14.0 | 1.9 | 14.0 | 8.0 | 30.0 | 13.0 | 35.2 | 24.0 | 41.8 | 36.0 | 46.2 | 48.0 | 59.3 | 180.0 | 59.3 |
| 42.1 | 0.0 | 0.0 | 0.2 | 0.3 | 0.5 | 1.9 | 0.8 | 4.8 | 1.0 | 7.5 | 1.4 | 14.0 | 1.8 | 14.0 | 7.9 | 30.0 | 13.0 | 35.3 | 24.0 | 42.0 | 36.0 | 46.4 | 48.0 | 59.5 | 180.0 | 59.5 |
| 42.2 | 0.0 | 0.0 | 0.2 | 0.3 | 0.5 | 1.9 | 0.8 | 4.9 | 1.0 | 7.6 | 1.4 | 14.1 | 1.8 | 14.1 | 7.8 | 30.0 | 13.0 | 35.5 | 24.0 | 42.1 | 36.0 | 46.5 | 48.0 | 59.6 | 180.0 | 59.6 |
| 42.3 | 0.0 | 0.0 | 0.2 | 0.3 | 0.5 | 2.0 | 0.8 | 5.0 | 1.0 | 7.8 | 1.3 | 14.1 | 1.8 | 14.1 | 7.7 | 30.0 | 13.0 | 35.6 | 24.0 | 42.3 | 36.0 | 46.7 | 48.0 | 59.8 | 180.0 | 59.8 |
| GAIN | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. |
| 42.4 | 0.0 | 0.0 | 0.2 | 0.3 | 0.5 | 2.0 | 0.7 | 3.9 | 1.0 | 8.0 | 1.3 | 14.1 | 1.8 | 14.1 | 7.6 | 30.0 | 13.0 | 35.8 | 24.0 | 42.4 | 36.0 | 46.8 | 48.0 | 59.9 | 180.0 | 59.9 |
| 42.5 | 0.0 | 0.0 | 0.2 | 0.3 | 0.5 | 2.0 | 0.7 | 4.0 | 1.0 | 8.2 | 1.3 | 14.1 | 1.7 | 14.1 | 7.5 | 30.0 | 13.0 | 35.9 | 24.0 | 42.6 | 36.0 | 47.0 | 48.0 | 60.1 | 180.0 | 60.1 |
| 42.6 | 0.0 | 0.0 | 0.2 | 0.3 | 0.5 | 2.1 | 0.7 | 4.1 | 1.0 | 8.4 | 1.3 | 14.2 | 1.7 | 14.2 | 7.4 | 30.0 | 13.0 | 36.1 | 24.0 | 42.7 | 36.0 | 47.1 | 48.0 | 60.2 | 180.0 | 60.2 |
| 42.7 | 0.0 | 0.0 | 0.2 | 0.3 | 0.5 | 2.1 | 0.7 | 4.2 | 1.0 | 8.6 | 1.3 | 14.2 | 1.7 | 14.2 | 7.3 | 30.0 | 13.0 | 36.2 | 24.0 | 42.9 | 36.0 | 47.3 | 48.0 | 60.4 | 180.0 | 60.4 |
| 42.8 | 0.0 | 0.0 | 0.2 | 0.4 | 0.5 | 2.2 | 0.7 | 4.3 | 1.0 | 8.8 | 1.3 | 14.2 | 1.7 | 14.2 | 7.2 | 30.0 | 13.0 | 36.4 | 24.0 | 43.0 | 36.0 | 47.4 | 48.0 | 60.5 | 180.0 | 60.5 |
| 42.9 | 0.0 | 0.0 | 0.2 | 0.4 | 0.5 | 2.2 | 0.7 | 4.4 | 1.0 | 9.0 | 1.3 | 14.2 | 1.7 | 14.2 | 7.1 | 30.0 | 13.0 | 36.5 | 24.0 | 43.2 | 36.0 | 47.6 | 48.0 | 60.7 | 180.0 | 60.7 |
| 43 | 0.0 | 0.0 | 0.2 | 0.4 | 0.4 | 1.5 | 0.7 | 4.5 | 0.9 | 7.4 | 1.2 | 14.3 | 1.6 | 14.3 | 7.0 | 30.0 | 13.0 | 36.7 | 24.0 | 43.3 | 36.0 | 47.7 | 48.0 | 60.8 | 180.0 | 60.8 |
| 43.1 | 0.0 | 0.0 | 0.2 | 0.4 | 0.4 | 1.5 | 0.7 | 4.6 | 0.9 | 7.6 | 1.2 | 14.3 | 1.6 | 14.3 | 6.9 | 30.0 | 13.0 | 36.8 | 24.0 | 43.5 | 36.0 | 47.9 | 48.0 | 61.0 | 180.0 | 61.0 |
| 43.2 | 0.0 | 0.0 | 0.2 | 0.4 | 0.4 | 1.5 | 0.7 | 4.7 | 0.9 | 7.8 | 1.2 | 14.3 | 1.6 | 14.3 | 6.8 | 30.0 | 13.0 | 37.0 | 24.0 | 43.6 | 36.0 | 48.0 | 48.0 | 61.1 | 180.0 | 61.1 |
| 43.3 | 0.0 | 0.0 | 0.2 | 0.4 | 0.4 | 1.6 | 0.7 | 4.8 | 0.9 | 8.0 | 1.2 | 14.3 | 1.6 | 14.3 | 6.7 | 30.0 | 13.0 | 37.1 | 24.0 | 43.8 | 36.0 | 48.2 | 48.0 | 61.3 | 180.0 | 61.3 |
| 43.4 | 0.0 | 0.0 | 0.2 | 0.4 | 0.4 | 1.6 | 0.7 | 4.9 | 0.9 | 8.2 | 1.2 | 14.4 | 1.6 | 14.4 | 6.6 | 30.0 | 13.0 | 37.3 | 24.0 | 43.9 | 36.0 | 48.3 | 48.0 | 61.4 | 180.0 | 61.4 |
| 43.5 | 0.0 | 0.0 | 0.2 | 0.4 | 0.4 | 1.7 | 0.7 | 5.1 | 0.9 | 8.4 | 1.2 | 14.4 | 1.6 | 14.4 | 6.5 | 30.0 | 13.0 | 37.4 | 24.0 | 44.1 | 36.0 | 48.5 | 48.0 | 61.6 | 180.0 | 61.6 |
| 43.6 | 0.0 | 0.0 | 0.2 | 0.4 | 0.4 | 1.7 | 0.7 | 5.2 | 0.9 | 8.5 | 1.2 | 14.4 | 1.5 | 14.4 | 6.4 | 30.0 | 13.0 | 37.6 | 24.0 | 44.2 | 36.0 | 48.6 | 48.0 | 61.7 | 180.0 | 61.7 |
| 43.7 | 0.0 | 0.0 | 0.2 | 0.4 | 0.4 | 1.7 | 0.6 | 3.9 | 0.9 | 8.7 | 1.2 | 14.4 | 1.5 | 14.4 | 6.3 | 30.0 | 13.0 | 37.7 | 24.0 | 44.4 | 36.0 | 48.8 | 48.0 | 61.9 | 180.0 | 61.9 |
| 43.8 | 0.0 | 0.0 | 0.2 | 0.4 | 0.4 | 1.8 | 0.6 | 4.0 | 0.9 | 9.0 | 1.1 | 14.5 | 1.5 | 14.5 | 6.2 | 30.0 | 13.0 | 37.9 | 24.0 | 44.5 | 36.0 | 48.9 | 48.0 | 62.0 | 180.0 | 62.0 |
| 43.9 | 0.0 | 0.0 | 0.2 | 0.5 | 0.4 | 1.8 | 0.6 | 4.1 | 0.9 | 9.2 | 1.1 | 14.5 | 1.5 | 14.5 | 6.2 | 30.0 | 13.0 | 38.0 | 24.0 | 44.7 | 36.0 | 49.1 | 48.0 | 62.2 | 180.0 | 62.2 |
| 44 | 0.0 | 0.0 | 0.2 | 0.5 | 0.4 | 1.9 | 0.6 | 4.2 | 0.8 | 7.4 | 1.1 | 14.5 | 1.5 | 14.5 | 6.1 | 30.0 | 13.0 | 38.2 | 24.0 | 44.8 | 36.0 | 49.2 | 48.0 | 62.3 | 180.0 | 62.3 |
| 44.1 | 0.0 | 0.0 | 0.2 | 0.5 | 0.4 | 1.9 | 0.6 | 4.3 | 0.8 | 7.6 | 1.1 | 14.5 | 1.5 | 14.5 | 6.0 | 30.0 | 13.0 | 38.3 | 24.0 | 45.0 | 36.0 | 49.4 | 48.0 | 62.5 | 180.0 | 62.5 |
| 44.2 | 0.0 | 0.0 | 0.2 | 0.5 | 0.4 | 1.9 | 0.6 | 4.4 | 0.8 | 7.8 | 1.1 | 14.6 | 1.4 | 14.6 | 5.9 | 30.0 | 13.0 | 38.5 | 24.0 | 45.1 | 36.0 | 49.5 | 48.0 | 62.6 | 180.0 | 62.6 |
| 44.3 | 0.0 | 0.0 | 0.2 | 0.5 | 0.4 | 2.0 | 0.6 | 4.5 | 0.8 | 7.9 | 1.1 | 14.6 | 1.4 | 14.6 | 5.8 | 30.0 | 13.0 | 38.6 | 24.0 | 45.3 | 36.0 | 49.7 | 48.0 | 62.8 | 180.0 | 62.8 |
| 44.4 | 0.0 | 0.0 | 0.2 | 0.5 | 0.4 | 2.0 | 0.6 | 4.6 | 0.8 | 8.1 | 1.1 | 14.6 | 1.4 | 14.6 | 5.7 | 30.0 | 13.0 | 38.8 | 24.0 | 45.4 | 36.0 | 49.8 | 48.0 | 62.9 | 180.0 | 62.9 |
| 44.5 | 0.0 | 0.0 | 0.2 | 0.5 | 0.4 | 2.1 | 0.6 | 4.7 | 0.8 | 8.3 | 1.1 | 14.6 | 1.4 | 14.6 | 5.7 | 30.0 | 13.0 | 38.9 | 24.0 | 45.6 | 36.0 | 50.0 | 48.0 | 63.1 | 180.0 | 63.1 |
| 44.6 | 0.0 | 0.0 | 0.2 | 0.5 | 0.4 | 2.1 | 0.6 | 4.8 | 0.8 | 8.5 | 1.1 | 14.7 | 1.4 | 14.7 | 5.6 | 30.0 | 13.0 | 39.1 | 24.0 | 45.7 | 36.0 | 50.1 | 48.0 | 63.2 | 180.0 | 63.2 |
| 44.7 | 0.0 | 0.0 | 0.2 | 0.5 | 0.4 | 2.2 | 0.6 | 4.9 | 0.8 | 8.7 | 1.0 | 14.7 | 1.4 | 14.7 | 5.5 | 30.0 | 13.0 | 39.2 | 24.0 | 45.9 | 36.0 | 50.3 | 48.0 | 63.4 | 180.0 | 63.4 |
| 44.8 | 0.0 | 0.0 | 0.2 | 0.6 | 0.4 | 2.2 | 0.6 | 5.0 | 0.8 | 8.9 | 1.0 | 14.7 | 1.3 | 14.7 | 5.4 | 30.0 | 13.0 | 39.4 | 24.0 | 46.0 | 36.0 | 50.4 | 48.0 | 63.5 | 180.0 | 63.5 |
| 44.9 | 0.0 | 0.0 | 0.2 | 0.6 | 0.4 | 2.3 | 0.6 | 5.1 | 0.8 | 9.1 | 1.0 | 14.7 | 1.3 | 14.7 | 5.4 | 30.0 | 13.0 | 39.5 | 24.0 | 46.2 | 36.0 | 50.6 | 48.0 | 63.7 | 180.0 | 63.7 |
| 45 | 0.0 | 0.0 | 0.2 | 0.6 | 0.4 | 2.3 | 0.6 | 5.2 | 0.8 | 9.3 | 1.0 | 14.8 | 1.3 | 14.8 | 5.3 | 30.0 | 13.0 | 39.7 | 24.0 | 46.3 | 36.0 | 50.7 | 48.0 | 63.8 | 180.0 | 63.8 |
| 45.1 | 0.0 | 0.0 | 0.1 | 0.1 | 0.3 | 1.3 | 0.5 | 3.7 | 0.7 | 7.3 | 1.0 | 14.8 | 1.3 | 14.8 | 5.2 | 30.0 | 13.0 | 39.8 | 24.0 | 46.5 | 36.0 | 50.9 | 48.0 | 64.0 | 180.0 | 64.0 |
| 45.2 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 1.4 | 0.5 | 3.8 | 0.7 | 7.5 | 1.0 | 14.8 | 1.3 | 14.8 | 5.1 | 30.0 | 13.0 | 40.0 | 24.0 | 46.6 | 36.0 | 51.0 | 48.0 | 64.1 | 180.0 | 64.1 |
| 45.3 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 1.4 | 0.5 | 3.9 | 0.7 | 7.6 | 1.0 | 14.8 | 1.3 | 14.8 | 5.1 | 30.0 | 12.0 | 39.3 | 24.0 | 46.8 | 36.0 | 51.2 | 48.0 | 64.3 | 180.0 | 64.3 |
| 45.4 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 1.4 | 0.5 | 4.0 | 0.7 | 7.8 | 1.0 | 14.9 | 1.3 | 14.9 | 5.0 | 30.0 | 12.0 | 39.4 | 24.0 | 46.9 | 36.0 | 51.3 | 48.0 | 64.4 | 180.0 | 64.4 |
| 45.5 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 1.5 | 0.5 | 4.1 | 0.7 | 8.0 | 1.0 | 14.9 | 1.2 | 14.9 | 4.9 | 30.0 | 12.0 | 39.6 | 24.0 | 47.1 | 36.0 | 51.5 | 48.0 | 64.6 | 180.0 | 64.6 |

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| GAIN | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. |
| 45.6 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 1.5 | 0.5 | 4.2 | 0.7 | 8.2 | 0.9 | 14.9 | 1.2 | 14.9 | 4.9 | 30.0 | 12.0 | 39.7 | 24.0 | 47.2 | 36.0 | 51.6 | 48.0 | 64.7 | 180.0 | 64.7 |
| 45.7 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 1.5 | 0.5 | 4.3 | 0.7 | 8.4 | 0.9 | 14.9 | 1.2 | 14.9 | 4.8 | 30.0 | 12.0 | 39.9 | 24.0 | 47.4 | 36.0 | 51.8 | 48.0 | 64.9 | 180.0 | 64.9 |
| 45.8 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 1.6 | 0.5 | 4.4 | 0.7 | 8.6 | 0.9 | 15.0 | 1.2 | 15.0 | 4.7 | 30.0 | 12.0 | 40.0 | 24.0 | 47.5 | 36.0 | 51.9 | 48.0 | 65.0 | 180.0 | 65.0 |
| 45.9 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 1.6 | 0.5 | 4.5 | 0.7 | 8.8 | 0.9 | 15.0 | 1.2 | 15.0 | 4.7 | 30.0 | 12.0 | 40.2 | 24.0 | 47.7 | 36.0 | 52.1 | 48.0 | 65.2 | 180.0 | 65.2 |
| 46 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 1.7 | 0.5 | 4.6 | 0.7 | 9.0 | 0.9 | 15.0 | 1.2 | 15.0 | 4.6 | 30.0 | 12.0 | 40.3 | 24.0 | 47.8 | 36.0 | 52.2 | 48.0 | 65.3 | 180.0 | 65.3 |
| 46.1 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 1.7 | 0.5 | 4.7 | 0.7 | 9.2 | 0.9 | 15.0 | 1.2 | 15.0 | 4.5 | 30.0 | 12.0 | 40.5 | 24.0 | 48.0 | 36.0 | 52.4 | 48.0 | 65.5 | 180.0 | 65.5 |
| 46.2 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 1.7 | 0.5 | 4.8 | 0.7 | 9.4 | 0.9 | 15.1 | 1.1 | 15.1 | 4.5 | 30.0 | 12.0 | 40.6 | 24.0 | 48.1 | 36.0 | 52.5 | 48.0 | 65.6 | 180.0 | 65.6 |
| 46.3 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 1.8 | 0.5 | 4.9 | 0.7 | 9.6 | 0.9 | 15.1 | 1.1 | 15.1 | 4.4 | 30.0 | 12.0 | 40.8 | 24.0 | 48.3 | 36.0 | 52.7 | 48.0 | 65.8 | 180.0 | 65.8 |
| 46.4 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 1.8 | 0.5 | 5.0 | 0.6 | 7.2 | 0.9 | 15.1 | 1.1 | 15.1 | 4.3 | 30.0 | 12.0 | 40.9 | 24.0 | 48.4 | 36.0 | 52.8 | 48.0 | 65.9 | 180.0 | 65.9 |
| 46.5 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 1.9 | 0.5 | 5.1 | 0.6 | 7.4 | 0.9 | 15.1 | 1.1 | 15.1 | 4.3 | 30.0 | 12.0 | 41.1 | 24.0 | 48.6 | 36.0 | 53.0 | 48.0 | 66.1 | 180.0 | 66.1 |
| 46.6 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 1.9 | 0.5 | 5.3 | 0.6 | 7.6 | 0.8 | 15.2 | 1.1 | 15.2 | 4.2 | 30.0 | 12.0 | 41.2 | 24.0 | 48.7 | 36.0 | 53.1 | 48.0 | 66.2 | 180.0 | 66.2 |
| 46.7 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 1.9 | 0.5 | 5.4 | 0.6 | 7.8 | 0.8 | 15.2 | 1.1 | 15.2 | 4.2 | 30.0 | 12.0 | 41.4 | 24.0 | 48.9 | 36.0 | 53.3 | 48.0 | 66.4 | 180.0 | 66.4 |
| 46.8 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 2.0 | 0.4 | 3.5 | 0.6 | 7.9 | 0.8 | 15.2 | 1.1 | 15.2 | 4.1 | 30.0 | 12.0 | 41.5 | 24.0 | 49.0 | 36.0 | 53.4 | 48.0 | 66.5 | 180.0 | 66.5 |
| 46.9 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 2.0 | 0.4 | 3.6 | 0.6 | 8.1 | 0.8 | 15.2 | 1.1 | 15.2 | 4.1 | 30.0 | 12.0 | 41.7 | 24.0 | 49.2 | 36.0 | 53.6 | 48.0 | 66.7 | 180.0 | 66.7 |
| 47 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 2.1 | 0.4 | 3.7 | 0.6 | 8.3 | 0.8 | 15.3 | 1.0 | 15.3 | 4.0 | 30.0 | 12.0 | 41.8 | 24.0 | 49.3 | 36.0 | 53.7 | 48.0 | 66.8 | 180.0 | 66.8 |
| 47.1 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 2.1 | 0.4 | 3.8 | 0.6 | 8.5 | 0.8 | 15.3 | 1.0 | 15.3 | 3.9 | 30.0 | 12.0 | 42.0 | 24.0 | 49.5 | 36.0 | 53.9 | 48.0 | 67.0 | 180.0 | 67.0 |
| 47.2 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 2.2 | 0.4 | 3.9 | 0.6 | 8.7 | 0.8 | 15.3 | 1.0 | 15.3 | 3.9 | 30.0 | 12.0 | 42.1 | 24.0 | 49.6 | 36.0 | 54.0 | 48.0 | 67.1 | 180.0 | 67.1 |
| 47.3 | 0.0 | 0.0 | 0.1 | 0.2 | 0.3 | 2.2 | 0.4 | 4.0 | 0.6 | 8.9 | 0.8 | 15.3 | 1.0 | 15.3 | 3.8 | 30.0 | 12.0 | 42.3 | 24.0 | 49.8 | 36.0 | 54.2 | 48.0 | 67.3 | 180.0 | 67.3 |
| 47.4 | 0.0 | 0.0 | 0.1 | 0.3 | 0.3 | 2.3 | 0.4 | 4.1 | 0.6 | 9.1 | 0.8 | 15.4 | 1.0 | 15.4 | 3.8 | 30.0 | 12.0 | 42.4 | 24.0 | 49.9 | 36.0 | 54.3 | 48.0 | 67.4 | 180.0 | 67.4 |
| 47.5 | 0.0 | 0.0 | 0.1 | 0.3 | 0.3 | 2.3 | 0.4 | 4.1 | 0.6 | 9.3 | 0.8 | 15.4 | 1.0 | 15.4 | 3.8 | 30.0 | 12.0 | 42.5 | 24.0 | 50.0 | 36.0 | 54.4 | 48.0 | 67.5 | 180.0 | 67.5 |
| 47.6 | 0.0 | 0.0 | 0.1 | 0.3 | 0.3 | 2.4 | 0.4 | 4.2 | 0.6 | 9.5 | 0.8 | 15.4 | 1.0 | 15.4 | 3.7 | 30.0 | 12.0 | 42.6 | 24.0 | 50.1 | 36.0 | 54.5 | 48.0 | 67.6 | 180.0 | 67.6 |
| 47.7 | 0.0 | 0.0 | 0.1 | 0.3 | 0.3 | 2.4 | 0.4 | 4.3 | 0.6 | 9.8 | 0.8 | 15.4 | 1.0 | 15.4 | 3.7 | 30.0 | 12.0 | 42.7 | 24.0 | 50.2 | 36.0 | 54.6 | 48.0 | 67.7 | 180.0 | 67.7 |
| 47.8 | 0.0 | 0.0 | 0.1 | 0.3 | 0.2 | 1.1 | 0.4 | 4.4 | 0.5 | 6.9 | 0.7 | 15.5 | 1.0 | 15.5 | 3.6 | 30.0 | 12.0 | 42.8 | 24.0 | 50.3 | 36.0 | 54.7 | 48.0 | 67.8 | 180.0 | 67.8 |
| 47.9 | 0.0 | 0.0 | 0.1 | 0.3 | 0.2 | 1.1 | 0.4 | 4.5 | 0.5 | 7.1 | 0.7 | 15.5 | 1.0 | 15.5 | 3.6 | 30.0 | 12.0 | 42.9 | 24.0 | 50.4 | 36.0 | 54.8 | 48.0 | 67.9 | 180.0 | 67.9 |
| 48 | 0.0 | 0.0 | 0.1 | 0.3 | 0.2 | 1.2 | 0.4 | 4.7 | 0.5 | 7.3 | 0.7 | 15.5 | 1.0 | 15.5 | 3.6 | 30.0 | 12.0 | 43.0 | 24.0 | 50.5 | 36.0 | 54.9 | 48.0 | 68.0 | 180.0 | 68.0 |
| 48.1 | 0.0 | 0.0 | 0.1 | 0.3 | 0.2 | 1.2 | 0.4 | 4.8 | 0.5 | 7.4 | 0.7 | 15.5 | 0.9 | 15.5 | 3.5 | 30.0 | 12.0 | 43.1 | 24.0 | 50.6 | 36.0 | 55.0 | 48.0 | 68.1 | 180.0 | 68.1 |
| 48.2 | 0.0 | 0.0 | 0.1 | 0.3 | 0.2 | 1.2 | 0.4 | 4.9 | 0.5 | 7.6 | 0.7 | 15.6 | 0.9 | 15.6 | 3.5 | 30.0 | 12.0 | 43.2 | 24.0 | 50.7 | 36.0 | 55.1 | 48.0 | 68.2 | 180.0 | 68.2 |
| 48.3 | 0.0 | 0.0 | 0.1 | 0.3 | 0.2 | 1.2 | 0.4 | 5.0 | 0.5 | 7.8 | 0.7 | 15.6 | 0.9 | 15.6 | 3.5 | 30.0 | 12.0 | 43.3 | 24.0 | 50.8 | 36.0 | 55.2 | 48.0 | 68.3 | 180.0 | 68.3 |
| 48.4 | 0.0 | 0.0 | 0.1 | 0.3 | 0.2 | 1.3 | 0.4 | 5.1 | 0.5 | 8.0 | 0.7 | 15.6 | 0.9 | 15.6 | 3.4 | 30.0 | 12.0 | 43.4 | 24.0 | 50.9 | 36.0 | 55.3 | 48.0 | 68.4 | 180.0 | 68.4 |
| 48.5 | 0.0 | 0.0 | 0.1 | 0.3 | 0.2 | 1.3 | 0.4 | 5.2 | 0.5 | 8.2 | 0.7 | 15.6 | 0.9 | 15.6 | 3.4 | 30.0 | 12.0 | 43.5 | 24.0 | 51.0 | 36.0 | 55.4 | 48.0 | 68.5 | 180.0 | 68.5 |
| 48.6 | 0.0 | 0.0 | 0.1 | 0.3 | 0.2 | 1.3 | 0.4 | 5.3 | 0.5 | 8.3 | 0.7 | 15.7 | 0.9 | 15.7 | 3.4 | 30.0 | 12.0 | 43.6 | 24.0 | 51.1 | 36.0 | 55.5 | 48.0 | 68.6 | 180.0 | 68.6 |
| 48.7 | 0.0 | 0.0 | 0.1 | 0.3 | 0.2 | 1.4 | 0.4 | 5.5 | 0.5 | 8.5 | 0.7 | 15.7 | 0.9 | 15.7 | 3.4 | 30.0 | 12.0 | 43.7 | 24.0 | 51.2 | 36.0 | 55.6 | 48.0 | 68.7 | 180.0 | 68.7 |
| AIN | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. | ANGLE | ATTN. |
| 48.8 | 0.0 | 0.0 | 0.1 | 0.3 | 0.2 | 1.4 | 0.4 | 5.6 | 0.5 | 8.7 | 0.7 | 15.7 | 0.9 | 15.7 | 3.3 | 30.0 | 12.0 | 43.8 | 24.0 | 51.3 | 36.0 | 55.7 | 48.0 | 68.8 | 180.0 | 68.8 |
| 48.9 | 0.0 | 0.0 | 0.1 | 0.4 | 0.2 | 1.4 | 0.3 | 3.2 | 0.5 | 8.9 | 0.7 | 15.7 | 0.9 | 15.7 | 3.3 | 30.0 | 12.0 | 43.9 | 24.0 | 51.4 | 36.0 | 55.8 | 48.0 | 68.9 | 180.0 | 68.9 |
| 49 | 0.0 | 0.0 | 0.1 | 0.4 | 0.2 | 1.5 | 0.3 | 3.3 | 0.5 | 9.1 | 0.7 | 15.8 | 0.9 | 15.8 | 3.3 | 30.0 | 12.0 | 44.0 | 24.0 | 51.5 | 36.0 | 55.9 | 48.0 | 69.0 | 180.0 | 69.0 |
| 49.1 | 0.0 | 0.0 | 0.1 | 0.4 | 0.2 | 1.5 | 0.3 | 3.4 | 0.5 | 9.4 | 0.6 | 15.8 | 0.9 | 15.8 | 3.2 | 30.0 | 12.0 | 44.1 | 24.0 | 51.6 | 36.0 | 56.0 | 48.0 | 69.1 | 180.0 | 69.1 |
| 49.2 | 0.0 | 0.0 | 0.1 | 0.4 | 0.2 | 1.5 | 0.3 | 3.4 | 0.5 | 9.6 | 0.6 | 15.8 | 0.9 | 15.8 | 3.2 | 30.0 | 12.0 | 44.2 | 24.0 | 51.7 | 36.0 | 56.1 | 48.0 | 69.2 | 180.0 | 69.2 |
| 49.3 | 0.0 | 0.0 | 0.1 | 0.4 | 0.2 | 1.6 | 0.3 | 3.5 | 0.5 | 9.8 | 0.6 | 15.8 | 0.9 | 15.8 | 3.2 | 30.0 | 12.0 | 44.3 | 24.0 | 51.8 | 36.0 | 56.2 | 48.0 | 69.3 | 180.0 | 69.3 |
| 49.4 | 0.0 | 0.0 | 0.1 | 0.4 | 0.2 | 1.6 | 0.3 | 3.6 | 0.5 | 10.0 | 0.6 | 15.9 | 0.9 | 15.9 | 3.1 | 30.0 | 12.0 | 44.4 | 24.0 | 51.9 | 36.0 | 56.3 | 48.0 | 69.4 | 180.0 | 69.4 |
| 49.5 | 0.0 | 0.0 | 0.1 | 0.4 | 0.2 | 1.6 | 0.3 | 3.7 | 0.4 | 6.6 | 0.6 | 15.9 | 0.9 | 15.9 | 3.1 | 30.0 | 12.0 | 44.5 | 24.0 | 52.0 | 36.0 | 56.4 | 48.0 | 69.5 | 180.0 | 69.5 |
| 49.6 | 0.0 | 0.0 | 0.1 | 0.4 | 0.2 | 1.7 | 0.3 | 3.8 | 0.4 | 6.7 | 0.6 | 15.9 | 0.9 | 15.9 | 3.1 | 30.0 | 12.0 | 44.6 | 24.0 | 52.1 | 36.0 | 56.5 | 48.0 | 69.6 | 180.0 | 69.6 |
| 49.7 | 0.0 | 0.0 | 0.1 | 0.4 | 0.2 | 1.7 | 0.3 | 3.9 | 0.4 | 6.9 | 0.6 | 15.9 | 0.9 | 15.9 | 3.1 | 30.0 | 12.0 | 44.7 | 24.0 | 52.2 | 36.0 | 56.6 | 48.0 | 69.7 | 180.0 | 69.7 |
| 49.8 | 0.0 | 0.0 | 0.1 | 0.4 | 0.2 | 1.8 | 0.3 | 4.0 | 0.4 | 7.0 | 0.6 | 16.0 | 0.8 | 16.0 | 3.0 | 30.0 | 12.0 | 44.8 | 24.0 | 52.3 | 36.0 | 56.7 | 48.0 | 69.8 | 180.0 | 69.8 |
| 49.9 | 0.0 | 0.0 | 0.1 | 0.5 | 0.2 | 1.8 | 0.3 | 4.1 | 0.4 | 7.2 | 0.6 | 16.0 | 0.8 | 16.0 | 3.0 | 30.0 | 12.0 | 44.9 | 24.0 | 52.4 | 36.0 | 56.8 | 48.0 | 69.9 | 180.0 | 69.9 |
| 50 | 0.0 | 0.0 | 0.1 | 0.5 | 0.2 | 1.8 | 0.3 | 4.1 | 0.4 | 7.4 | 0.6 | 16.0 | 0.8 | 16.0 | 3.0 | 30.0 | 12.0 | 45.0 | 24.0 | 52.5 | 36.0 | 56.9 | 48.0 | 70.0 | 180.0 | 70.0 |

**References :**

1. ETSI TR 101 854 Annex F.
2. ETSI EN 302 217-2-2 V1.4.1
3. HCM Agreement