WAHS Appendix Data

The data tables listed here were used to construct the contour plots found in this application. The FCC web FM, TV, & DTV Propagation Curves Calculations pages were used to create these tables.

| WAHS Angle | Field | % power | kW | 2.6 HAAT Elevation Meters | KM F(50,10) 60 | KM F(50,50) 60 | KM F(50,10) 40 | KM F(50,50) 54 | KM F(50,10) 54 | KM F(50,50) 54.5 | KM F(50,50) 55 | KM F(50,50) 56 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | 1.000 | 1 | 2.600 | 3.35 | 12.78 | 12.78 | 50.41 | 18.28 | 18.76 | | | |
| 10 | 1.000 | 1 | 2.600 | 14.26 | 12.78 | 12.78 | 50.41 | 18.28 | 18.76 | | | |
| 20 | 1.000 | 1 | 2.600 | 25.18 | 12.78 | 12.78 | 50.41 | 18.28 | 18.76 | | | |
| 30 | 1.000 | 1 | 2.600 | 36.07 | 13.85 | 13.85 | 54.61 | 19.90 | 20.61 | | | |
| 40 | 1.000 | 1 | 2.600 | 46.97 | 16.34 | 15.95 | 60.10 | 22.68 | 23.72 | | | |
| 50 | 1.000 | 1 | 2.600 | 55.74 | 18.19 | 17.60 | 63.35 | 24.62 | 25.87 | | | |
| 60 | 1.000 | 1 | 2.600 | 62.38 | 19.27 | 18.63 | 65.33 | 25.82 | 27.27 | | | |
| 70 | 1.000 | 1 | 2.600 | 69.02 | 20.25 | 19.53 | 67.06 | 26.93 | 28.62 | | | |
| 80 | 1.000 | 1 | 2.600 | 75.66 | 21.23 | 20.43 | 68.67 | 28.05 | 30.02 | 27.34 | 26.64 | 25.30 |
| 90 | 1.000 | 1 | 2.600 | 82.30 | 22.19 | 21.30 | 70.17 | 29.17 | 31.49 | 28.42 | 27.69 | 26.30 |
| 100 | 1.000 | 1 | 2.600 | 83.31 | 22.33 | 21.43 | 70.39 | 29.34 | 31.71 | 28.58 | 27.85 | 26.45 |
| 110 | 1.000 | 1 | 2.600 | 84.33 | 22.48 | 21.56 | 70.55 | 29.51 | 31.94 | 28.75 | 28.01 | 26.60 |
| 120 | 0.915 | 0.837225 | 2.177 | 85.34 | 21.62 | 20.79 | 68.11 | 28.51 | 30.62 | 27.78 | 27.07 | 257.40 |
| 130 | 0.727 | 0.528529 | 1.374 | 86.36 | 19.26 | 18.63 | 61.59 | 25.85 | 27.39 | 25.19 | 24.55 | 23.30 |
| 140 | 0.577 | 0.332929 | 0.866 | 85.31 | 16.73 | 16.32 | 55.54 | 23.15 | 24.28 | | | |
| 150 | 0.459 | 0.210681 | 0.548 | 82.20 | 14.15 | 14.16 | 49.28 | 20.40 | 21.21 | | | |
| 160 | 0.364 | 0.132496 | 0.344 | 79.08 | 12.46 | 12.41 | 42.91 | 17.74 | 18.29 | | | |
| 170 | 0.325 | 0.105625 | 0.275 | 75.96 | 11.56 | 11.56 | 39.61 | 16.31 | 16.73 | | | |
| 180 | 0.258 | 0.066564 | 0.173 | 72.85 | 10.14 | 10.14 | 34.03 | 14.11 | 14.11 | | | |
| 190 | 0.258 | 0.066564 | 0.173 | 62.21 | 9.42 | 9.42 | 31.18 | 13.15 | 13.15 | | | |
| 200 | 0.230 | 0.0529 | 0.138 | 51.58 | 8.03 | 8.03 | 26.73 | 11.43 | 11.44 | | | |
| 210 | 0.215 | 0.046225 | 0.120 | 40.94 | 6.83 | 6.83 | 21.94 | 9.75 | 9.80 | | | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 220 | 0.242 | 0.058564 | 0.152 | 24.99 | 6.26 | 6.26 | 20.85 | 8.94 | 8.94 | | | | |
| 230 | 0.258 | 0.066564 | 0.173 | 23.54 | 6.46 | 6.46 | 21.56 | 9.25 | 9.25 | | | | |
| 240 | 0.289 | 0.083521 | 0.217 | 20.63 | 6.84 | 6.84 | 22.90 | 9.80 | 9.80 | | | | |
| 250 | 0.364 | 0.132496 | 0.344 | 17.71 | 7.69 | 7.69 | 25.81 | 10.97 | 10.97 | | | | |
| 260 | 0.459 | 0.210681 | 0.548 | 14.80 | 8.71 | 8.71 | 29.27 | 12.25 | 12.26 | | | | |
| 270 | 0.577 | 0.332929 | 0.866 | 11.89 | 9.80 | 9.80 | 33.93 | 13.67 | 13.68 | | | | |
| 280 | 0.674 | 0.454276 | 1.181 | 10.60 | 10.58 | 10.58 | 37.71 | 14.77 | 14.77 | | | | |
| 290 | 0.674 | 0.454276 | 1.181 | 9.31 | 10.58 | 10.58 | 37.71 | 14.77 | 14.77 | | | | |
| 300 | 0.674 | 0.454276 | 1.181 | 8.03 | 10.58 | 10.58 | 37.71 | 14.77 | 14.77 | | | | |
| 310 | 0.674 | 0.454276 | 1.181 | 6.10 | 10.58 | 10.58 | 37.71 | 14.77 | 14.77 | | | | |
| 320 | 0.674 | 0.454276 | 1.181 | 5.79 | 10.58 | 10.58 | 37.71 | 14.77 | 14.77 | | | | |
| 330 | 0.699 | 0.488601 | 1.270 | 5.18 | 10.77 | 10.77 | 38.66 | 15.04 | 15.06 | | | | |
| 340 | 0.774 | 0.599076 | 1.558 | 4.57 | 11.31 | 11.31 | 41.47 | 15.89 | 16.09 | | | | |
| 350 | 0.924 | 0.853776 | 2.220 | 3.96 | 12.30 | 12.30 | 47.27 | 17.53 | 17.92 | | | | |

| | WAHS | | | | F(50,10) | F(50,10) | F(50,10) | F(50,10) | F(50,10) | F(50,50) | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 2.6 | Elevation | KM | KM | KM | KM | KM | KM | |
| Angle | Field | % power | kW | | Meters | 74dBu | 48dBu | 49dBu | 50dBu | 51dBu | 52dBu | |
| 0 | 1.000 | 1 | 2.600 | | 3.35 | 5.68 | 27.06 | 25.47 | 23.99 | | 21.28 | |
| 10 | 1.000 | 1 | 2.600 | | 14.26 | 5.68 | 27.06 | 25.47 | 23.99 | | 21.28 | |
| 20 | 1.000 | 1 | 2.600 | | 25.18 | 5.68 | 27.06 | 25.47 | 23.99 | | 21.28 | |
| 30 | 1.000 | 1 | 2.600 | | 36.07 | 6.18 | 29.54 | 27.74 | 26.12 | | 23.23 | |
| 40 | 1.000 | 1 | 2.600 | | 46.97 | 7.07 | 34.52 | 32.09 | 29.99 | | 26.58 | |
| 50 | 1.000 | 1 | 2.600 | | 55.74 | 7.76 | 38.09 | 35.58 | 33.18 | | 29.06 | |
| 60 | 1.000 | 1 | 2.600 | | 62.38 | 8.22 | 40.26 | 37.70 | 35.27 | | 30.77 | |
| 70 | 1.000 | 1 | 2.600 | | 69.02 | 8.65 | 42.20 | 39.61 | 37.14 | | 32.50 | |
| 80 | 1.000 | 1 | 2.600 | | 75.66 | 9.07 | 44.07 | 41.44 | 38.93 | | 34.23 | |
| 90 | 1.000 | 1 | 2.600 | | 82.30 | 9.46 | 45.83 | 43.17 | 40.47 | | 35.88 | |
| 100 | 1.000 | 1 | 2.600 | | 83.31 | 9.52 | 46.09 | 43.43 | 40.88 | | 36.12 | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 110 | 1.000 | 1 | 2.600 | 84.33 | 9.57 | 46.35 | 35.64 | 41.14 | | 36.36 | | |
| 120 | 0.915 | 0.837225 | 2.177 | 85.34 | 9.21 | 44.53 | 41.95 | 39.49 | | 34.85 | | |
| 130 | 0.727 | 0.528529 | 1.374 | 86.36 | 8.21 | 39.73 | 37.36 | 35.09 | | 30.83 | | |
| 140 | 0.577 | 0.332929 | 0.866 | 85.31 | 7.26 | 34.84 | 32.65 | 30.61 | | 27.20 | | |
| 150 | 0.459 | 0.210681 | 0.548 | 82.20 | 6.38 | 30.00 | 28.27 | 26.69 | | 23.82 | | |
| 160 | 0.364 | 0.132496 | 0.344 | 79.08 | 5.59 | 26.12 | 24.68 | 23.31 | | 20.73 | | |
| 170 | 0.325 | 0.105625 | 0.275 | 75.96 | 5.18 | 24.22 | 22.87 | 21.59 | | 19.11 | | |
| 180 | 0.258 | 0.066564 | 0.173 | 72.85 | 4.50 | 21.11 | 19.87 | 18.66 | | 16.32 | | |
| 190 | 0.258 | 0.066564 | 0.173 | 62.21 | 4.19 | 19.52 | | | | | | |
| 200 | 0.230 | 0.0529 | 0.138 | 51.58 | 3.60 | 16.50 | | | | | | |
| 210 | 0.215 | 0.046225 | 0.120 | 40.94 | 3.06 | 13.66 | | | | | | |
| 220 | 0.242 | 0.058564 | 0.152 | 24.99 | 2.80 | 12.54 | | | | | | |
| 230 | 0.258 | 0.066564 | 0.173 | 23.54 | 2.88 | 12.94 | | | | | | |
| 240 | 0.289 | 0.083521 | 0.217 | 20.63 | 3.03 | 13.66 | | | | | | |
| 250 | 0.364 | 0.132496 | 0.344 | 17.71 | 3.40 | 15.44 | | | | | | |
| 260 | 0.459 | 0.210681 | 0.548 | 14.80 | 3.82 | 17.83 | | | | | | |
| 270 | 0.577 | 0.332929 | 0.866 | 11.89 | 4.28 | 20.28 | | | | | | |
| 280 | 0.674 | 0.454276 | 1.181 | 10.60 | 4.53 | 22.03 | | | | | | |
| 290 | 0.674 | 0.454276 | 1.181 | 9.31 | 4.53 | 22.03 | | | | | | |
| 300 | 0.674 | 0.454276 | 1.181 | 8.03 | 4.53 | 22.03 | | | | | | |
| 310 | 0.674 | 0.454276 | 1.181 | 6.10 | 4.53 | 22.03 | | | | | | |
| 320 | 0.674 | 0.454276 | 1.181 | 5.79 | 4.53 | 22.03 | | | | | | |
| 330 | 0.699 | 0.488601 | 1.270 | 5.18 | 4.67 | 22.45 | | | | | | |
| 340 | 0.774 | 0.599076 | 1.558 | 4.57 | 4.85 | 23.68 | | | | | | |
| 350 | 0.924 | 0.853776 | 2.220 | 3.96 | 5.43 | 25.95 | | | | | | |

| | WAHS | | | | F10 | F10 | F50 | F50 | F50 | F50 | F50 | F50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 2.6 Elevation | | 0.5 KM | KM | KM | KM | KM | KM | |
| Angle | Field | % power | kW | Meters | | 54 48 dBu | | 54.5 | 55 | 56 | 52 | 58 |
| 0 | 1.000 | 1 | 2.600 | 3.35 | 3.55 | 5.13 | | | 3.05 | 4.03 | 2.71 | |
| 10 | 1.000 | 1 | 2.600 | 14.26 | 3.55 | 5.13 | | | 3.05 | 4.03 | 2.71 | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | 1.000 | 1 | 2.600 | 25.18 | 3.55 | 5.13 | | | 3.05 | 4.03 | 2.71 | |
| 30 | 1.000 | 1 | 2.600 | 36.07 | 3.90 | 5.60 | | | 3.35 | 4.40 | 2.95 | |
| 40 | 1.000 | 1 | 2.600 | 46.97 | 4.49 | 6.54 | | | 3.85 | 5.04 | 3.43 | |
| 50 | 1.000 | 1 | 2.600 | 55.74 | 4.90 | 7.21 | | | 4.20 | 5.51 | 3.76 | |
| 60 | 1.000 | 1 | 2.600 | 62.38 | 5.17 | 7.63 | | | 4.41 | 5.83 | 3.96 | |
| 70 | 1.000 | 1 | 2.600 | 69.02 | 5.42 | 7.99 | | | 4.60 | 6.16 | 4.14 | |
| 80 | 1.000 | 1 | 2.600 | 75.66 | 5.69 | 8.35 | 5.18 | 5.05 | 4.79 | 6.48 | 4.32 | |
| 90 | 1.000 | 1 | 2.600 | 82.30 | 5.96 | 8.68 | 5.38 | 5.25 | 4.98 | 6.80 | 4.49 | |
| 100 | 1.000 | 1 | 2.600 | 83.31 | 6.01 | 8.73 | 5.41 | 5.28 | 5.01 | 6.84 | 4.52 | |
| 110 | 1.000 | 1 | 2.600 | 84.33 | 6.05 | 8.78 | 5.45 | 5.31 | 5.04 | 6.89 | 4.54 | |
| 120 | 0.915 | 0.837225 | 2.177 | 85.34 | 5.80 | 8.44 | 5.26 | 5.13 | 4.87 | 6.60 | 4.39 | |
| 130 | 0.727 | 0.528529 | 1.374 | 86.36 | 5.19 | 7.53 | 4.77 | 4.65 | 4.41 | 5.84 | 3.96 | |
| 140 | 0.577 | 0.332929 | 0.866 | 85.31 | 4.60 | 6.60 | | | 3.94 | 5.15 | 3.51 | |
| 150 | 0.459 | 0.210681 | 0.548 | 82.20 | 4.02 | 5.68 | | | 3.44 | 4.51 | 3.03 | |
| 160 | 0.364 | 0.132496 | 0.344 | 79.08 | 3.47 | 4.95 | | | 2.96 | 3.93 | 2.64 | |
| 170 | 0.325 | 0.105625 | 0.275 | 75.96 | 3.17 | 4.59 | | | 2.73 | 3.62 | 2.44 | |
| 180 | 0.258 | 0.066564 | 0.173 | 72.85 | 2.67 | 4.00 | | | 2.39 | 3.09 | 2.15 | |
| 190 | 0.258 | 0.066564 | 0.173 | 62.21 | 2.49 | 3.70 | | | | | | |
| 200 | 0.230 | 0.0529 | 0.138 | 51.58 | 2.17 | 3.13 | | | | | | |
| 210 | 0.215 | 0.046225 | 0.120 | 40.94 | 1.86 | 2.59 | | | | | | |
| 220 | 0.242 | 0.058564 | 0.152 | 24.99 | 1.69 | 2.38 | | | | | | |
| 230 | 0.258 | 0.066564 | 0.173 | 23.54 | 1.75 | 2.45 | | | | | | |
| 240 | 0.289 | 0.083521 | 0.217 | 20.63 | 1.86 | 2.59 | | | | | | |
| 250 | 0.364 | 0.132496 | 0.344 | 17.71 | 2.08 | 2.92 | | | | | | |
| 260 | 0.459 | 0.210681 | 0.548 | 14.80 | 2.32 | 3.38 | | | | | | |
| 270 | 0.577 | 0.332929 | 0.866 | 11.89 | 2.59 | 3.84 | | | | | | |
| 280 | 0.674 | 0.454276 | 1.181 | 10.60 | 2.80 | 4.17 | | | | | | |
| 290 | 0.674 | 0.454276 | 1.181 | 9.31 | 2.80 | 4.17 | | | | | | |
| 300 | 0.674 | 0.454276 | 1.181 | 8.03 | 2.80 | 4.17 | | | | | | |
| 310 | 0.674 | 0.454276 | 1.181 | 6.10 | 2.80 | 4.17 | | | | | | |
| 320 | 0.674 | 0.454276 | 1.181 | 5.79 | 2.80 | 4.17 | | | | | | |
| 330 | 0.699 | 0.488601 | 1.270 | 5.18 | 2.85 | 4.25 | | | | | | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 340 | 0.774 | 0.599076 | 1.558 | 4.57 | 3.05 | 4.49 | | | | | | | |
| 350 | 0.924 | 0.853776 | 2.220 | 3.96 | 3.40 | 4.92 | | | | | | | |

| | WOVI | | | | | | | KM | KM |
|---|---|---|---|---|---|---|---|---|---|
| Angle | | | 2.6 | Elevation | Elevation | | | F(50,50) | F(50,10) |
| | Field | % power | kW | ft | meter | 100 | 80 | 60 | 40 |
| 0 | 1.000 | 1 | 0.10 | 42.65 | 13.00 | | | 5.63 | 18.57 |
| 10 | 1.000 | 1 | 0.10 | 44.09 | 13.44 | | | 5.63 | 18.57 |
| 20 | 1.000 | 1 | 0.10 | 45.52 | 13.88 | | | 5.63 | 18.57 |
| 30 | 1.000 | 1 | 0.10 | 46.96 | 14.32 | | | 5.63 | 18.57 |
| 40 | 1.000 | 1 | 0.10 | 48.39 | 14.75 | | | 5.63 | 18.57 |
| 50 | 1.000 | 1 | 0.10 | 69.17 | 21.09 | | | 5.63 | 18.57 |
| 60 | 1.000 | 1 | 0.10 | 109.29 | 33.32 | | | 5.91 | 19.60 |
| 70 | 1.000 | 1 | 0.10 | 149.41 | 45.55 | | | 6.89 | 23.12 |
| 80 | 1.000 | 1 | 0.10 | 189.54 | 57.79 | | | 7.85 | 26.10 |
| 90 | 1.000 | 1 | 0.10 | 229.66 | 70.02 | | | 8.64 | 28.58 |
| 100 | 1.000 | 1 | 0.10 | 234.00 | 71.34 | | | 8.72 | 28.85 |
| 110 | 1.000 | 1 | 0.10 | 238.41 | 72.69 | | | 8.80 | 29.11 |
| 120 | 1.000 | 1 | 0.10 | 242.78 | 74.02 | | | 8.88 | 29.41 |
| 130 | 1.000 | 1 | 0.10 | 247.15 | 75.35 | | | 8.96 | 29.70 |
| 140 | 1.000 | 1 | 0.10 | 242.77 | 74.02 | | | 8.88 | 29.41 |
| 150 | 1.000 | 1 | 0.10 | 229.65 | 70.02 | | | 8.64 | 28.58 |
| 160 | 1.000 | 1 | 0.10 | 216.53 | 66.02 | | | 8.38 | 27.76 |
| 170 | 1.000 | 1 | 0.10 | 203.41 | 58.02 | | | 8.11 | 26.97 |
| 180 | 1.000 | 1 | 0.10 | 190.29 | 47.79 | | | 7.85 | 26.16 |
| 190 | 1.000 | 1 | 0.10 | 156.75 | 37.56 | | | 7.06 | 23.73 |
| 200 | 1.000 | 1 | 0.10 | 123.21 | 27.34 | | | 6.26 | 20.87 |
| 210 | 1.000 | 1 | 0.10 | 89.67 | 11.34 | | | 5.63 | 18.57 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 220 | 1.000 | 1 | 0.10 | 37.18 | 11.34 | | | 5.63 | 18.57 |
| 230 | 1.000 | 1 | 0.10 | 37.18 | 11.34 | | | 5.63 | 18.57 |
| 240 | 1.000 | 1 | 0.10 | 32.81 | 10.00 | | | 5.63 | 18.57 |
| 250 | 1.000 | 1 | 0.10 | 28.44 | 8.67 | | | 5.63 | 18.57 |
| 260 | 1.000 | 1 | 0.10 | 24.06 | 7.34 | | | 5.63 | 18.57 |
| 270 | 1.000 | 1 | 0.10 | 19.69 | 6.00 | | | 5.63 | 18.57 |
| 280 | 1.000 | 1 | 0.10 | 20.41 | 6.22 | | | 5.63 | 18.57 |
| 290 | 1.000 | 1 | 0.10 | 21.14 | 6.45 | | | 5.63 | 18.57 |
| 300 | 1.000 | 1 | 0.10 | 21.87 | 6.67 | | | 5.63 | 18.57 |
| 310 | 1.000 | 1 | 0.10 | 22.60 | 6.89 | | | 5.63 | 18.57 |
| 320 | 1.000 | 1 | 0.10 | 25.15 | 7.67 | | | 5.63 | 18.57 |
| 330 | 1.000 | 1 | 0.10 | 29.53 | 9.00 | | | 5.63 | 18.57 |
| 340 | 1.000 | 1 | 0.10 | 33.90 | 10.34 | | | 5.63 | 18.57 |
| 350 | 1.000 | 1 | 0.10 | 38.28 | 11.67 | | | 5.63 | 18.57 |

| | | WPHS | | | | |
|---|---|---|---|---|---|---|
| | | | | | F(50,50) | F(50,10) |
| | | | AMSL | HAAT/Radial | 100 | 60 |
| | | 0 | | 36.58 | 0.70 | 6.17 |
| | | 45 | | 38.71 | 0.70 | 6.34 |
| | | 90 | | 40.54 | 0.70 | 6.49 |
| | | 135 | | 42.98 | 0.70 | 6.69 |
| | | 180 | | 26.52 | 0.70 | 5.63 |
| | | 225 | | 32.61 | 0.70 | 5.85 |
| Less than 30m | | 270 | | 14.63 | 0.70 | 5.63 |
| Less than 30m | | 315 | | 10.06 | 0.70 | 5.63 |

| Chatham Alloc | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
| | | | F(50,50) | F(50,10) | F(50,10) | F(50,10) | F(50,10) | F(50,10) | F(50,10) | F(50,10) |
| | 40kW | HAAT/Radial | 54 | 54 | 54.5 | 55 | 56 | 48 | 50 | 52 |
| 0 | | 122 | 11.141 | 13.348 | 13.042 | 12.739 | 12.146 | 17.244 | 15.907 | 14.607 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | F(50,50) | F(50,50) | F(50,50) | F(50,50) | F(50,10) | F(50,10) | F(50,10) | F(50,10) |
| | 40kW | HAAT/Radial | 55 | 56 | 57 | 58 | | | | |
| 0 | | 122 | 10.731 | 10.334 | 9.941 | 9.548 | | | | |

| WCMU | | | | |
|---|---|---|---|---|
| HAAT | 99.8 | | 60 dBu | 40 dBu |
| | Meters | ft | km | km |
| 0 | 136.5 | 447.8338 | 56.6014 | 152.5477 |
| 45 | 149.9 | 491.7969 | 58.4421 | 154.826 |
| 90 | 154.1 | 505.5764 | 58.98755 | 155.5259 |
| 135 | 138.2 | 453.4112 | 56.84275 | 152.8389 |
| 180 | 128.3 | 420.9309 | 55.42683 | 151.1527 |
| 225 | 108.5 | 355.9704 | 52.39709 | 147.8156 |
| 270 | 112.1 | 367.7814 | 53.00046 | 148.4286 |
| 315 | 117.6 | 385.826 | 53.87093 | 149.4391 |

| WBLD | 0 | | | |
|---|---|---|---|---|
| HAAT | 49.2 | 161.417 | 60 dBu | 54 dBu |
| | meters | ft | KM | KM |
| 0 | 27.3 | 89.56675 | 3.478658 | 4.933194 |
| 45 | 32.3 | 105.9709 | 3.602551 | 5.111793 |
| 90 | 66.3 | 217.5193 | 5.246949 | 7.317732 |
| 135 | 93.5 | 306.7579 | 6.234875 | 8.775486 |
| 180 | 82.9 | 271.9811 | 5.853542 | 8.22199 |
| 225 | 38.1 | 124.9998 | 3.914697 | 5.55105 |
| 270 | 33.4 | 109.5798 | 3.663693 | 5.200288 |
| 315 | 19.5 | 63.97625 | 3.478658 | 4.933194 |

| CBEFM | | | F(50,50) | F(50,10) | F(50,50) | F(50,50) | F(50,50) | F(50,50) | F(50,50) |
|---|---|---|---|---|---|---|---|---|---|
| | 100kW | HAAT/Radial | 54 | 74 | 56 | 58 | 60 | 62 | 64 |
| 0 | | 159.4107 | 73.28351 | 34.71096 | 68.59489 | 64.01085 | 59.64724 | 55.46223 | 51.34963 |
| 45 | | 159.4107 | 73.28351 | 34.71096 | 68.59489 | 64.01085 | 59.64724 | 55.46223 | 51.34963 |
| 90 | | 159.4107 | 73.28351 | 34.71096 | 68.59489 | 64.01085 | 59.64724 | 55.46223 | 51.34963 |
| 135 | | 167.0307 | 74.15881 | 35.50741 | 69.49271 | 64.92154 | 60.53863 | 56.34879 | 52.24423 |
| 180 | | 163.9827 | 73.81609 | 35.19527 | | | | | |
| 225 | | 168.5547 | 74.32615 | 35.66188 | 69.66487 | 65.09531 | 60.70757 | | |
| 270 | | 168.5547 | 74.32615 | 35.66188 | 69.66487 | 65.09531 | 60.70757 | 0 | 0 |
| 315 | | 167.0307 | 74.15881 | 35.50741 | 69.49271 | 64.92154 | 60.53863 | 56.34879 | 52.24423 |

| | W208BB | | | | | | |
|---|---|---|---|---|---|---|---|
| | | | 45 | Elevation | Elevation | 1 | 0.1 |
| Angle | Field | % power | Watts | ft | meter | 60 | 40 |
| 0 | 0.923 | 0.851929 | 38.33681 | 128.3 | 39.11 | 5.03617 | 16.27825 |
| 10 | 0.840 | 0.7056 | 31.75200 | 129.3 | 39.42 | 4.823782 | 15.41583 |
| 20 | 0.735 | 0.540225 | 24.31013 | 130.3 | 39.73 | 4.510027 | 14.2847 |
| 30 | 0.600 | 0.36 | 16.20000 | 131.3 | 40.04 | 4.096514 | 12.99428 |
| 40 | 0.410 | 0.1681 | 7.56450 | 132.4 | 40.35 | 3.412689 | 10.90258 |
| 50 | 0.185 | 0.034225 | 1.54013 | 136.0 | 41.46 | 2.36523 | 7.269462 |
| 60 | 0.030 | 0.0009 | 0.04050 | 142.2 | 43.34 | | |
| 70 | 0.020 | 0.0004 | 0.01800 | 148.4 | 45.23 | | |
| 80 | 0.020 | 0.0004 | 0.01800 | 154.6 | 47.12 | | |
| 90 | 0.020 | 0.0004 | 0.01800 | 160.8 | 49.01 | | |
| 100 | 0.020 | 0.0004 | 0.01800 | 160.2 | 48.83 | | |
| 110 | 0.025 | 0.000625 | 0.02813 | 159.6 | 48.66 | | |
| 120 | 0.125 | 0.015625 | 0.70313 | 159.0 | 48.48 | 2.33305 | 7.124652 |
| 130 | 0.195 | 0.038025 | 1.71113 | 158.4 | 48.30 | 2.627497 | 8.184983 |
| 140 | 0.230 | 0.0529 | 2.38050 | 159.1 | 48.51 | 2.823795 | 9.012009 |
| 150 | 0.250 | 0.0625 | 2.81250 | 161.1 | 49.11 | 2.963778 | 9.446439 |
| 160 | 0.260 | 0.0676 | 3.04200 | 163.1 | 49.71 | 3.029747 | 9.679744 |
| 170 | 0.250 | 0.0625 | 2.81250 | 165.0 | 50.91 | 2.995958 | 9.570332 |
| 180 | 0.230 | 0.0529 | 2.38050 | 167.0 | 49.78 | 2.915508 | 9.261404 |
| 190 | 0.195 | 0.038025 | 1.71113 | 163.3 | 48.65 | 2.669331 | 8.33462 |
| 200 | 0.125 | 0.015625 | 0.70313 | 159.6 | 47.51 | 2.337877 | 7.139133 |
| 210 | 0.025 | 0.000625 | 0.02813 | 155.8 | 46.38 | | |
| 220 | 0.020 | 0.0004 | 0.01800 | 152.1 | 44.59 | | |
| 230 | 0.020 | 0.0004 | 0.01800 | 146.3 | 44.59 | | |
| 240 | 0.020 | 0.0004 | 0.01800 | 138.2 | 42.14 | | |
| 250 | 0.020 | 0.0004 | 0.01800 | 130.2 | 39.70 | | |
| 260 | 0.030 | 0.0009 | 0.04050 | 122.2 | 37.25 | | |
| 270 | 0.185 | 0.034225 | 1.54013 | 114.2 | 34.81 | 2.168932 | 6.666087 |
| 280 | 0.410 | 0.1681 | 7.56450 | 107.5 | 32.79 | 3.063536 | 9.864779 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 290 | 0.600 | 0.36 | 16.20000 | 100.9 | 30.76 | 3.58807 | 11.5317 |
| 300 | 0.735 | 0.540225 | 24.31013 | 94.3 | 28.74 | 3.919524 | 12.56951 |
| 310 | 0.840 | 0.7056 | 31.75200 | 87.6 | 26.72 | 4.193054 | 13.39493 |
| 320 | 0.923 | 0.851929 | 38.33681 | 89.2 | 27.20 | 4.390961 | 14.02404 |
| 330 | 0.980 | 0.9604 | 43.21800 | 99.0 | 30.17 | 4.522899 | 14.48583 |
| 340 | 1.000 | 1 | 45.00000 | 108.7 | 33.15 | 4.81091 | 15.40296 |
| 350 | 0.980 | 0.9604 | 43.21800 | 118.5 | 36.13 | 4.976637 | 16.0546 |