

**Proposed Antenna:** SWR FMEC 1-Bay

**Proposed Power:** 0.005 kW

**Antenna Height AGL:** 88 meters

**Interference Contour:** 103.1 dBu f(50:10)

**Official Rcv Antenna Height:** 2 meters

Fill in "yellow" cells

**Equation:**  $= (10^{((106.92 - [\text{desired dBu}] + [\text{ERP in dBk}]) / 20)}) * 1000$

**Equation**  $= 106.92 - (20 * (\text{LOG10}[\text{DistMeters} / 1000])) + [\text{ERP in dBk}]$

| Depression |          |       |        | Distance  |                  |                  |                 |                |
|------------|----------|-------|--------|-----------|------------------|------------------|-----------------|----------------|
| Angle      | Antenna  |       |        | from Ant. | Distance         | Field Strength   | Distance        | Field Strength |
| Below      | Relative | ERP   | ERP    | to Interf | from Ant. to     | in dBu @         | from Ant.       | in dBu @       |
| Horizon    | Field    | in kW | in dBk | Contour   | Artificial Plane | Artificial Plane | to Ground Level | Ground Level   |
| 0°         | 1.000    | 0.005 | -23.01 | 109.77 m  | infinite         | ---              | infinite        | ---            |
| -5°        | 0.997    | 0.005 | -23.04 | 109.44 m  | 986.74 m         | 84.00 dBu        | 566.20 m        | 83.80 dBu      |
| -10°       | 0.986    | 0.005 | -23.13 | 108.23 m  | 495.25 m         | 89.89 dBu        | 506.77 m        | 89.69 dBu      |
| -15°       | 0.969    | 0.005 | -23.28 | 106.37 m  | 332.28 m         | 93.21 dBu        | 340.01 m        | 93.01 dBu      |
| -20°       | 0.946    | 0.004 | -23.49 | 103.84 m  | 251.45 m         | 95.42 dBu        | 257.29 m        | 95.22 dBu      |
| -25°       | 0.916    | 0.004 | -23.77 | 100.55 m  | 203.49 m         | 96.98 dBu        | 208.23 m        | 96.78 dBu      |
| -30°       | 0.879    | 0.004 | -24.13 | 96.49 m   | 172.00 m         | 98.08 dBu        | 176.00 m        | 97.88 dBu      |
| -35°       | 0.837    | 0.004 | -24.56 | 91.88 m   | 149.94 m         | 98.85 dBu        | 153.42 m        | 98.65 dBu      |
| -40°       | 0.789    | 0.003 | -25.07 | 86.61 m   | 133.79 m         | 99.32 dBu        | 136.90 m        | 99.12 dBu      |
| -45°       | 0.736    | 0.003 | -25.67 | 80.79 m   | 121.62 m         | 99.55 dBu        | 124.45 m        | 99.35 dBu      |
| -50°       | 0.679    | 0.002 | -26.37 | 74.53 m   | 112.27 m         | 99.54 dBu        | 114.88 m        | 99.34 dBu      |
| -55°       | 0.616    | 0.002 | -27.22 | 67.62 m   | 104.99 m         | 99.28 dBu        | 107.43 m        | 99.08 dBu      |
| -60°       | 0.550    | 0.002 | -28.20 | 60.37 m   | 99.30 m          | 98.78 dBu        | 101.61 m        | 98.58 dBu      |
| -65°       | 0.480    | 0.001 | -29.39 | 52.69 m   | 94.89 m          | 97.99 dBu        | 97.10 m         | 97.79 dBu      |
| -70°       | 0.408    | 0.001 | -30.80 | 44.79 m   | 91.52 m          | 96.89 dBu        | 93.65 m         | 96.69 dBu      |
| -75°       | 0.333    | 0.001 | -32.56 | 36.55 m   | 89.03 m          | 95.37 dBu        | 91.10 m         | 95.17 dBu      |
| -80°       | 0.256    | 0.000 | -34.85 | 28.10 m   | 87.33 m          | 93.25 dBu        | 89.36 m         | 93.05 dBu      |
| -85°       | 0.178    | 0.000 | -38.00 | 19.54 m   | 86.33 m          | 90.20 dBu        | 88.34 m         | 90.00 dBu      |
| -90°       | 0.100    | 0.000 | -43.01 | 10.98 m   | 86.00 m          | 85.22 dBu        | 88.00 m         | 85.02 dBu      |