

Formula*

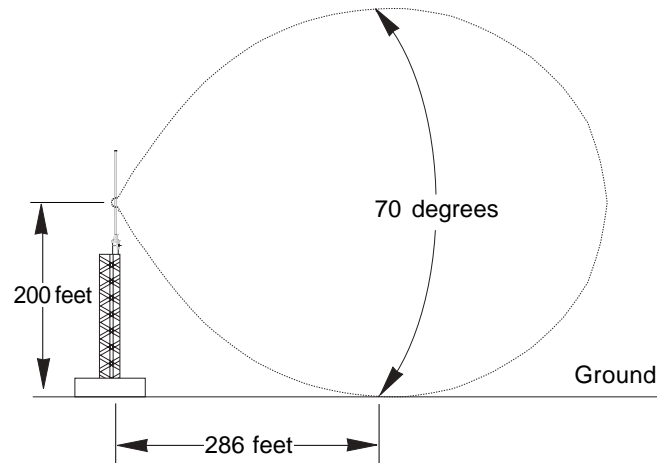
$$\text{Distance} = \frac{H}{\tan\left(\frac{\text{HPBW}}{2} + \text{DTA}\right)}$$

Where: H = Height of antenna from the ground (ft)
HPBW = Vertical half-power beamwidth (deg)
DTA = Downtilt angle expressed as a positive value (deg)

* This formula is for level terrain calculations only.

Example

$$\begin{aligned}(70^\circ \div 2) + 0 &= 35 \\ \tan(35) &= .7002 \\ 200 \div .7002 &= 286 \text{ feet}\end{aligned}$$



All specifications are subject to change without notice