

[Directional Antenna \(Exhibit 2\):](#)

i. Width of beam in degrees at the half power point (The beam is narrower at boresight and becomes wider when the beam is steered away from boresight.)

Function	At Boresight	At Slant
Receive (11.7 GHz)	3.5°	5.5°
Transmit (14.25 GHz)	2.8°	4.5°

**Table 1. Half Power Beamwidth**

ii. Orientation in horizontal plane (degrees from True North): Each device is a phased array that can point a beam at a commanded angle within 0+/-180deg from true north

iii. Orientation in vertical plane (degrees from horizontal): Each device is a phased array that can point a beam at a commanded angle within 25 to 90deg from horizontal