

## Directional Antenna Information

(a) Width of beam in degrees at the half-power point:

\***16 degrees** for the 28 GHz L1 & L2 frequencies (27500-27925 MHz; 27925-28350 MHz)

\***12 degrees** for the 39 GHz N2, N3, & N4 frequencies (38700-39000 MHz) as well as the 39 GHz N11, N12, N13, & N14 frequencies (39600-40000 MHz)

The exact horizontal/vertical orientation will be determined for each individual location at the time of installation pursuant to the ideal propagation at each site. However, it is estimated that the orientation for both the horizontal and vertical planes will be in the range of +/- 45 degrees for both.

(b) Orientation in horizontal plane: +/- 45°

(c) Orientation in vertical plane: +/- 45°