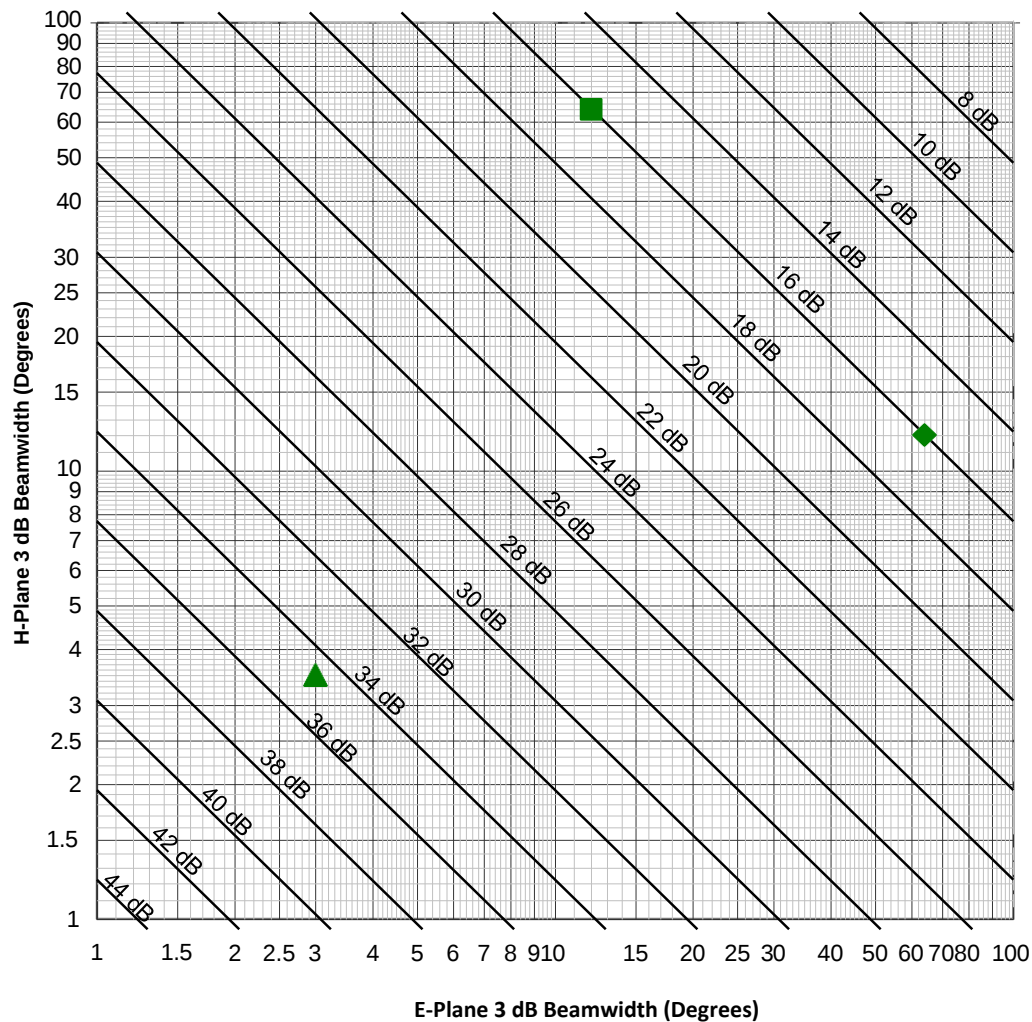


ANTENNA DESIGN AIDS

DIRECTIVITY AND BEAMWIDTH



- ◆ 20245-AA H-Plane Sectoral Horn: 64° E-plane, 12° H-plane, Gain ~16dBi
- 20245-AA E-Plane Sectoral Horn: 12° E-plane, 64° H-plane, Gain ~16dBi
- ▲ 20880-PA 250mm dia Lens Horn: 3° E-plane, 3.5° H-plane, Gain ~35dBi

Notes

$$Directivity \approx \frac{41000 \epsilon_M}{\theta_E \theta_H (\text{deg})}$$

$\epsilon_M \sim 0.75$, Appendix A, 'Antennas', JD Kraus, McGraw-Hill 1988

$$Gain = Directivity - Antenna Losses$$

Please contact us to discuss your custom antenna requirements.