

RADIATION PATTERN ENVELOPE

Antenna Type Number: SHPX4-13W
4.00 Foot Antenna 12.200-13.250 GHz Dual Polarized
Gain: 41.90 dBi at 12.725 GHz

- Envelope for a Horizontally Polarized Antenna (HH, HV)
- Envelope for a Vertically Polarized Antenna (VV, VH)

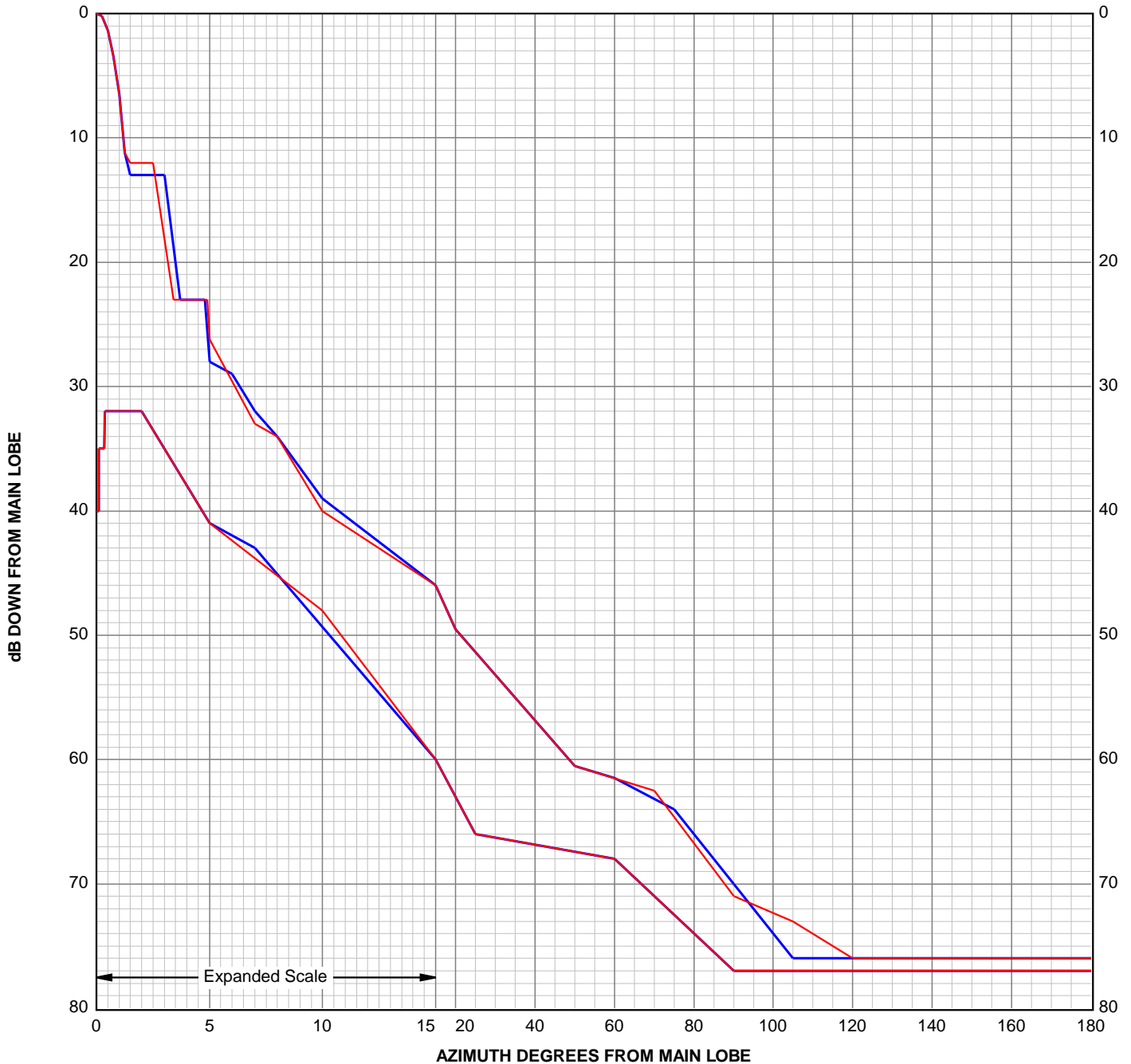
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".

ANDREW CORPORATION



RPE 7408

Engineering Approved:
13 February 2019



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| Angle | H/H dB | Angle | H/V dB | Angle | V/V dB | Angle | V/H dB |
|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| 0.00 | 0.00 | 0.00 | -40.00 | 0.00 | 0.00 | 0.00 | -40.00 |
| 0.25 | -0.20 | 0.10 | -40.00 | 0.25 | -0.20 | 0.10 | -40.00 |
| 0.51 | -1.35 | 0.11 | -35.00 | 0.51 | -1.35 | 0.11 | -35.00 |
| 0.75 | -3.38 | 0.35 | -35.00 | 0.75 | -3.38 | 0.35 | -35.00 |
| 1.00 | -6.50 | 0.36 | -32.00 | 1.00 | -6.50 | 0.36 | -32.00 |
| 1.24 | -11.17 | 2.00 | -32.00 | 1.24 | -11.17 | 2.00 | -32.00 |
| 1.50 | -13.00 | 5.00 | -41.00 | 1.50 | -12.00 | 5.00 | -41.00 |
| 3.00 | -13.00 | 7.00 | -43.00 | 2.50 | -12.00 | 10.00 | -48.00 |
| 3.70 | -23.00 | 15.00 | -60.00 | 3.40 | -23.00 | 15.00 | -60.00 |
| 4.80 | -23.00 | 25.00 | -66.00 | 4.90 | -23.00 | 25.00 | -66.00 |
| 5.00 | -28.00 | 60.00 | -68.00 | 5.00 | -26.20 | 60.00 | -68.00 |
| 6.00 | -29.00 | 90.00 | -77.00 | 7.00 | -33.00 | 90.00 | -77.00 |
| 7.00 | -32.00 | 180.00 | -77.00 | 8.00 | -34.00 | 180.00 | -77.00 |
| 8.00 | -34.00 | | | 10.00 | -40.00 | | |
| 10.00 | -39.00 | | | 15.00 | -46.00 | | |
| 15.00 | -46.00 | | | 20.00 | -49.50 | | |
| 20.00 | -49.50 | | | 50.00 | -60.50 | | |
| 50.00 | -60.50 | | | 70.00 | -62.50 | | |
| 60.00 | -61.50 | | | 90.00 | -71.00 | | |
| 75.00 | -64.00 | | | 105.00 | -73.00 | | |
| 90.00 | -70.00 | | | 120.00 | -76.00 | | |
| 105.00 | -76.00 | | | 180.00 | -76.00 | | |
| 180.00 | -76.00 | | | | | | |

The RPE is defined by connecting these points with straight lines.
 PARALLEL POLARIZATION
 HH - Horizontal port response to a horizontal signal
 VV - Vertical port response to a vertical signal
 CROSS POLARIZATION
 HV - Horizontal port response to a vertical signal
 VH - Vertical port response to a horizontal signal