

### RADIATION PATTERN ENVELOPE

Antenna Type Number: SHPX3-13  
3.00 Foot Antenna 12.700-13.250 GHz Dual Polarized  
Gain: 40.00 dBi at 12.975 GHz  
— Envelope for a Horizontally Polarized Antenna (HH, HV)  
— Envelope for a Vertically Polarized Antenna (VV, VH)

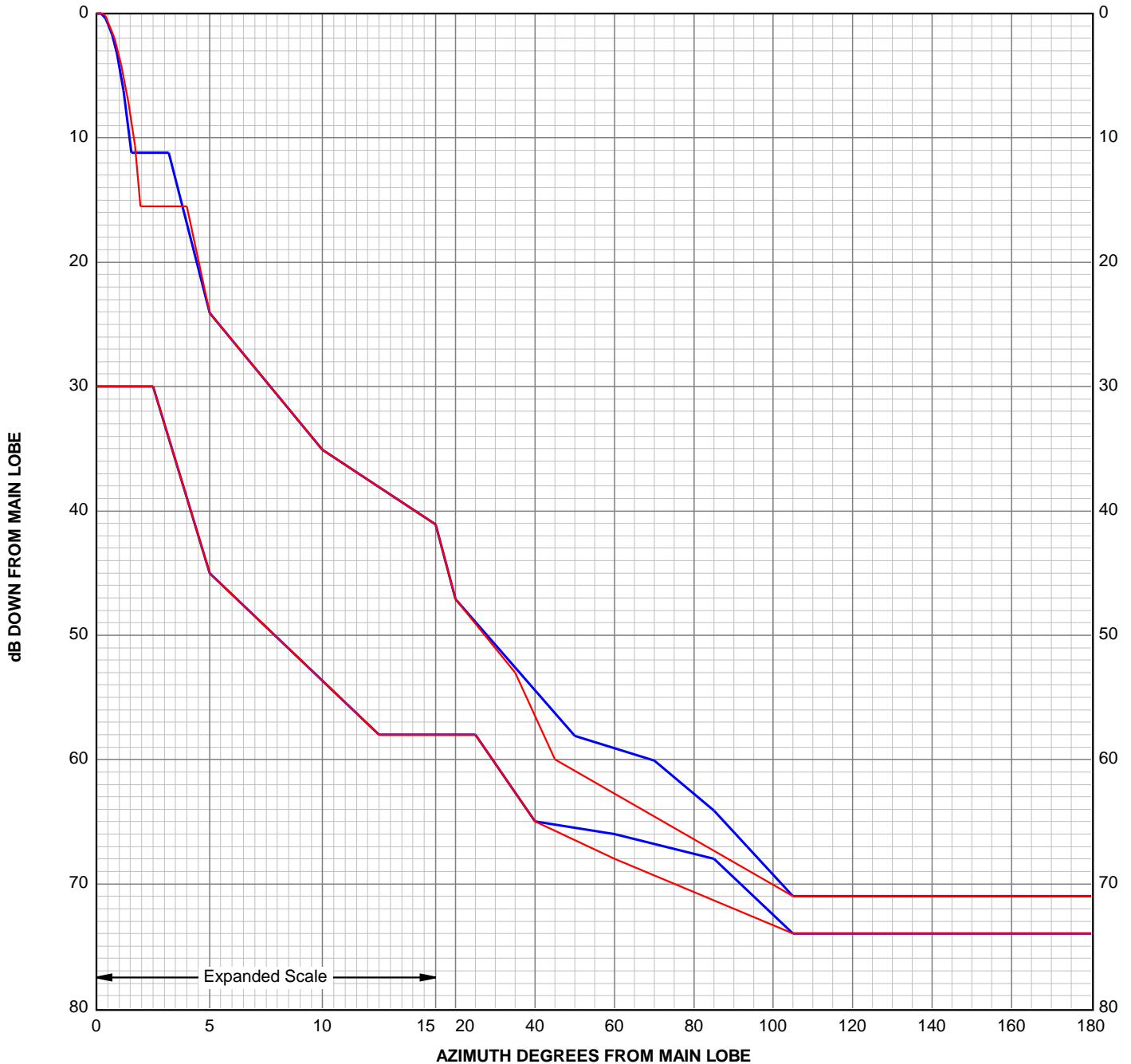
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".

ANDREW CORPORATION



RPE 7296B

Engineering Approved:  
10 June 2020



Antenna Type Number: SHPX3-13  
 3.00 Foot Antenna 12.700-13.250 GHz Dual Polarized  
 Gain: 40.00 dBi at 12.975 GHz  
 RPE: 7296B  
 Engineering Approved: 10 June 2020



| Angle  | H/H<br>dB | Angle  | H/V<br>dB | Angle  | V/V<br>dB | Angle  | V/H<br>dB |
|--------|-----------|--------|-----------|--------|-----------|--------|-----------|
| 0.00   | 0.00      | 0.00   | -30.00    | 0.00   | 0.00      | 0.00   | -30.00    |
| 0.20   | 0.00      | 2.50   | -30.00    | 0.30   | 0.00      | 2.50   | -30.00    |
| 0.40   | -0.40     | 5.00   | -45.00    | 0.40   | -0.20     | 5.00   | -45.00    |
| 0.50   | -0.80     | 12.50  | -58.00    | 0.80   | -2.00     | 12.50  | -58.00    |
| 0.70   | -1.70     | 25.00  | -58.00    | 1.10   | -4.10     | 25.00  | -58.00    |
| 0.90   | -3.20     | 40.00  | -65.00    | 1.40   | -7.10     | 40.00  | -65.00    |
| 1.20   | -6.20     | 60.00  | -66.00    | 1.70   | -10.60    | 60.00  | -68.00    |
| 1.55   | -11.20    | 85.00  | -68.00    | 1.95   | -15.50    | 105.00 | -74.00    |
| 3.20   | -11.20    | 105.00 | -74.00    | 4.00   | -15.50    | 180.00 | -74.00    |
| 5.00   | -24.10    | 180.00 | -74.00    | 5.00   | -24.10    |        |           |
| 10.00  | -35.10    |        |           | 10.00  | -35.10    |        |           |
| 20.00  | -47.10    |        |           | 20.00  | -47.10    |        |           |
| 50.00  | -58.10    |        |           | 35.00  | -53.00    |        |           |
| 70.00  | -60.10    |        |           | 45.00  | -60.00    |        |           |
| 85.00  | -64.10    |        |           | 105.00 | -71.00    |        |           |
| 105.00 | -71.00    |        |           | 180.00 | -71.00    |        |           |
| 180.00 | -71.00    |        |           |        |           |        |           |

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