# RADIATION PATTERN ENVELOPE

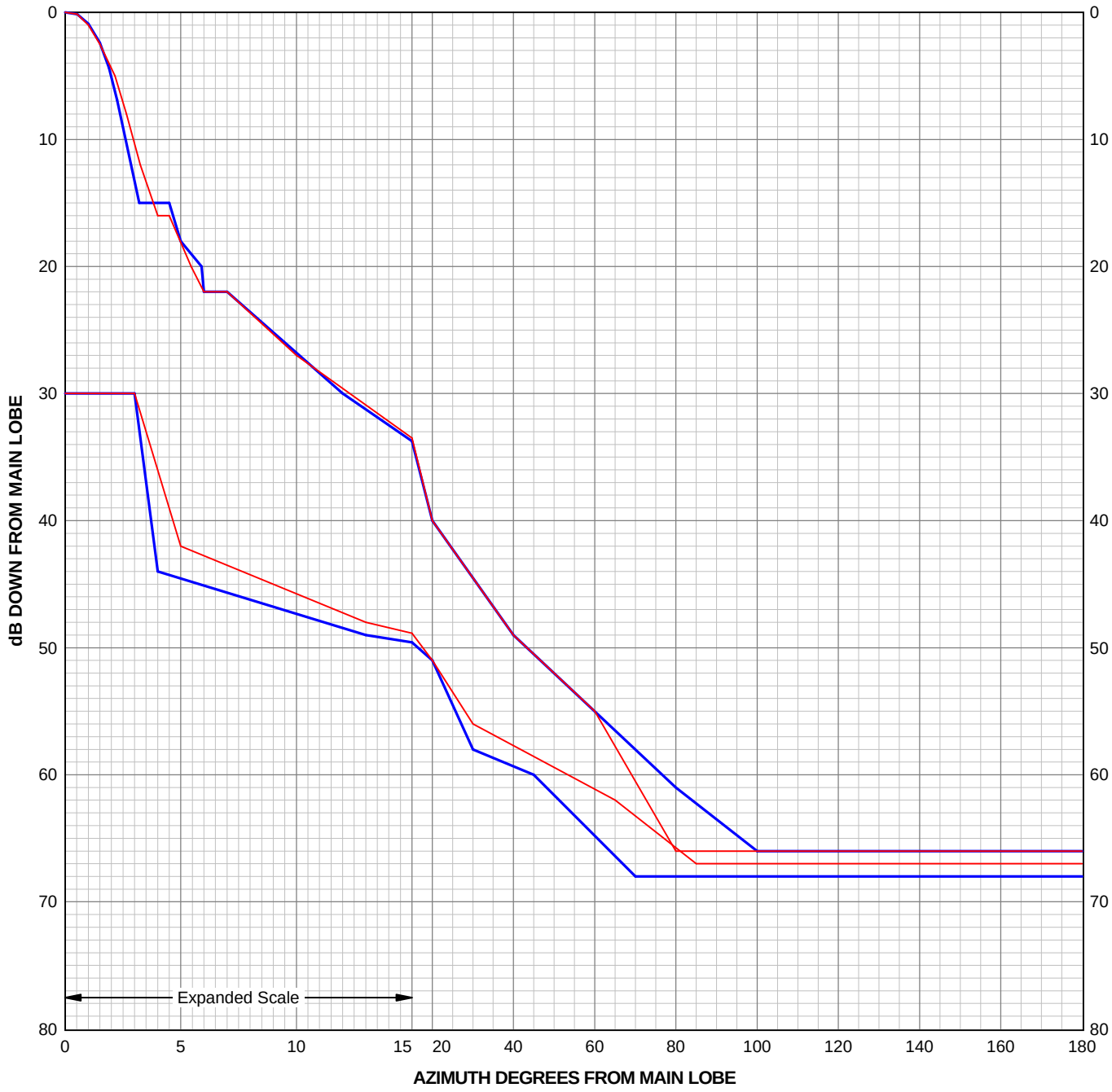
Antenna Type Number: SHPX1-23
1.00 Foot Antenna 21.200-23.600 GHz Dual Polarized
Gain: 35.60 dBi at 22.400 GHz
— Envelope for a Horizontally Polarized Antenna (HH, HV)
— Envelope for a Vertically Polarized Antenna (VV, VH)

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

ANDREW CORPORATION

RPE 7276B

Engineering Approved:
14 August 2013



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| H/H | | H/V | | V/V | | V/H | |
|---|---|---|---|---|---|---|---|
| **Angle** | **dB** | **Angle** | **dB** | **Angle** | **dB** | **Angle** | **dB** |
| 0.00 | 0.00 | 0.00 | -30.00 | 0.00 | 0.00 | 0.00 | -30.00 |
| 0.52 | -0.14 | 3.00 | -30.00 | 0.52 | -0.14 | 3.00 | -30.00 |
| 1.00 | -0.90 | 4.00 | -44.00 | 1.00 | -1.01 | 5.00 | -42.00 |
| 1.50 | -2.40 | 13.00 | -49.00 | 1.50 | -2.50 | 13.00 | -48.00 |
| 1.90 | -4.36 | 20.00 | -51.00 | 2.15 | -5.00 | 20.00 | -51.00 |
| 2.25 | -6.90 | 30.00 | -58.00 | 2.65 | -8.00 | 30.00 | -56.00 |
| 3.20 | -15.00 | 45.00 | -60.00 | 3.25 | -12.00 | 65.00 | -62.00 |
| 4.50 | -15.00 | 70.00 | -68.00 | 4.00 | -16.00 | 85.00 | -67.00 |
| 5.00 | -18.00 | 180.00 | -68.00 | 4.50 | -16.00 | 180.00 | -67.00 |
| 5.90 | -20.00 | | | 5.45 | -20.00 | | |
| 6.00 | -22.00 | | | 6.00 | -22.00 | | |
| 7.00 | -22.00 | | | 7.00 | -22.00 | | |
| 12.00 | -30.00 | | | 10.00 | -27.00 | | |
| 20.00 | -40.00 | | | 20.00 | -40.00 | | |
| 40.00 | -49.00 | | | 40.00 | -49.00 | | |
| 80.00 | -61.00 | | | 60.00 | -55.00 | | |
| 100.00 | -66.00 | | | 80.00 | -66.00 | | |
| 180.00 | -66.00 | | | 180.00 | -66.00 | | |

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

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