

### RADIATION PATTERN ENVELOPE

Antenna Type Number: SHPX4-11W  
4.00 Foot Antenna 10.000-11.700 GHz Dual Polarized  
Gain: 40.80 dBi at 10.850 GHz

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

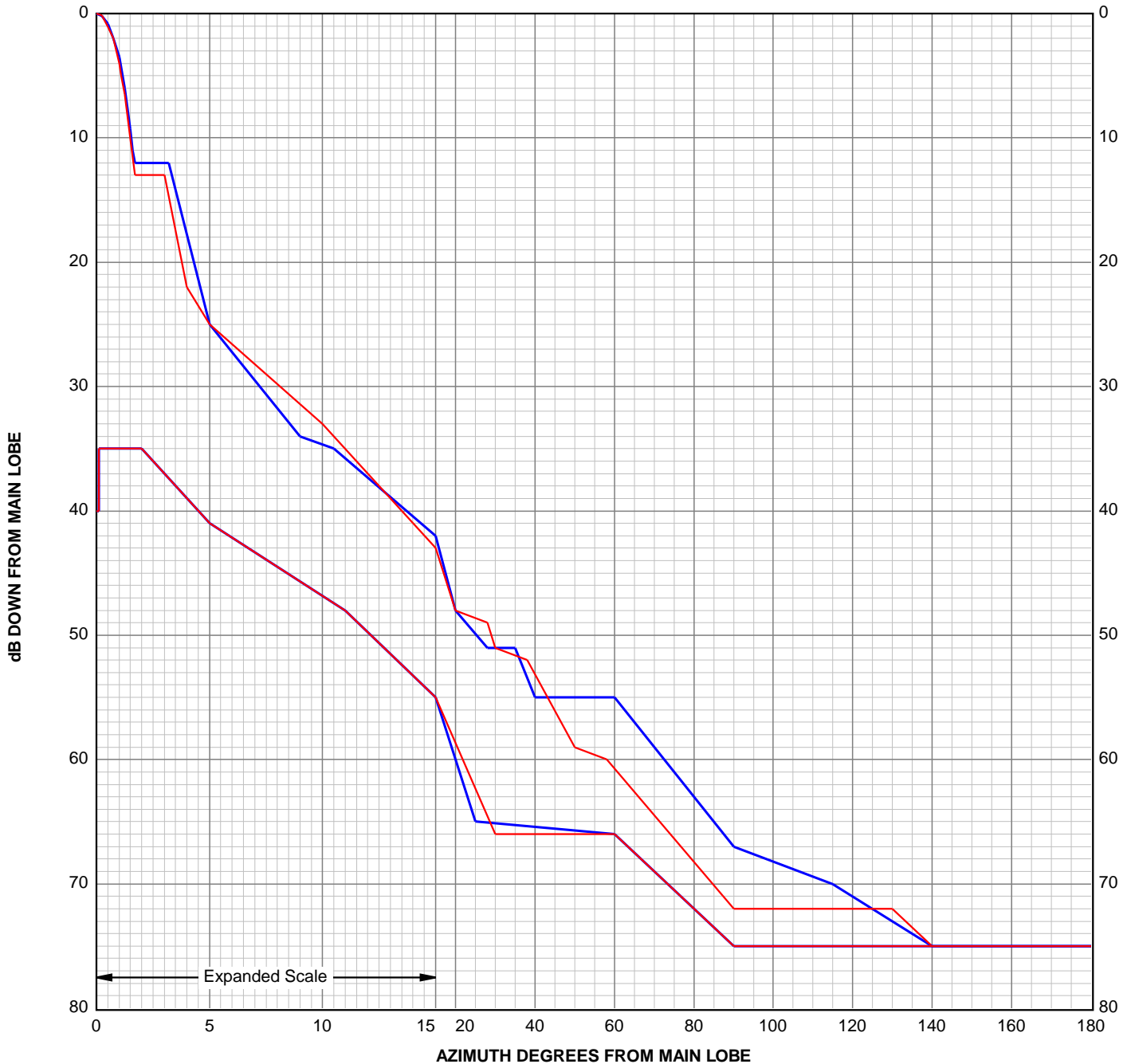
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".

ANDREW CORPORATION



RPE 7410

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	-0.15	0.10	-40.00
0.50	-0.80	0.11	-35.00	0.50	-1.05	0.11	-35.00
0.75	-2.00	2.00	-35.00	0.75	-2.00	2.00	-35.00
1.00	-3.50	5.00	-41.00	1.00	-4.00	5.00	-41.00
1.25	-6.00	11.00	-48.00	1.10	-5.00	11.00	-48.00
1.50	-9.25	15.00	-55.00	1.25	-6.50	15.00	-55.00
1.60	-11.00	25.00	-65.00	1.50	-10.00	30.00	-66.00
1.70	-12.00	60.00	-66.00	1.70	-13.00	60.00	-66.00
3.20	-12.00	90.00	-75.00	3.00	-13.00	90.00	-75.00
5.00	-25.00	180.00	-75.00	4.00	-22.00	180.00	-75.00
9.00	-34.00			5.00	-25.00		
10.50	-35.00			10.00	-33.00		
15.00	-42.00			15.00	-43.00		
20.00	-48.00			20.00	-48.00		
28.00	-51.00			28.00	-49.00		
35.00	-51.00			30.00	-51.00		
40.00	-55.00			38.00	-52.00		
60.00	-55.00			50.00	-59.00		
90.00	-67.00			58.00	-60.00		
115.00	-70.00			90.00	-72.00		
140.00	-75.00			130.00	-72.00		
180.00	-75.00			140.00	-75.00		
				180.00	-75.00		

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