

### RADIATION PATTERN ENVELOPE

Antenna Type Number: USX10-11W  
10.00 Foot Antenna 10.000-11.700 GHz Dual Polarized  
Gain: 47.90 dBi at 10.850 GHz

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

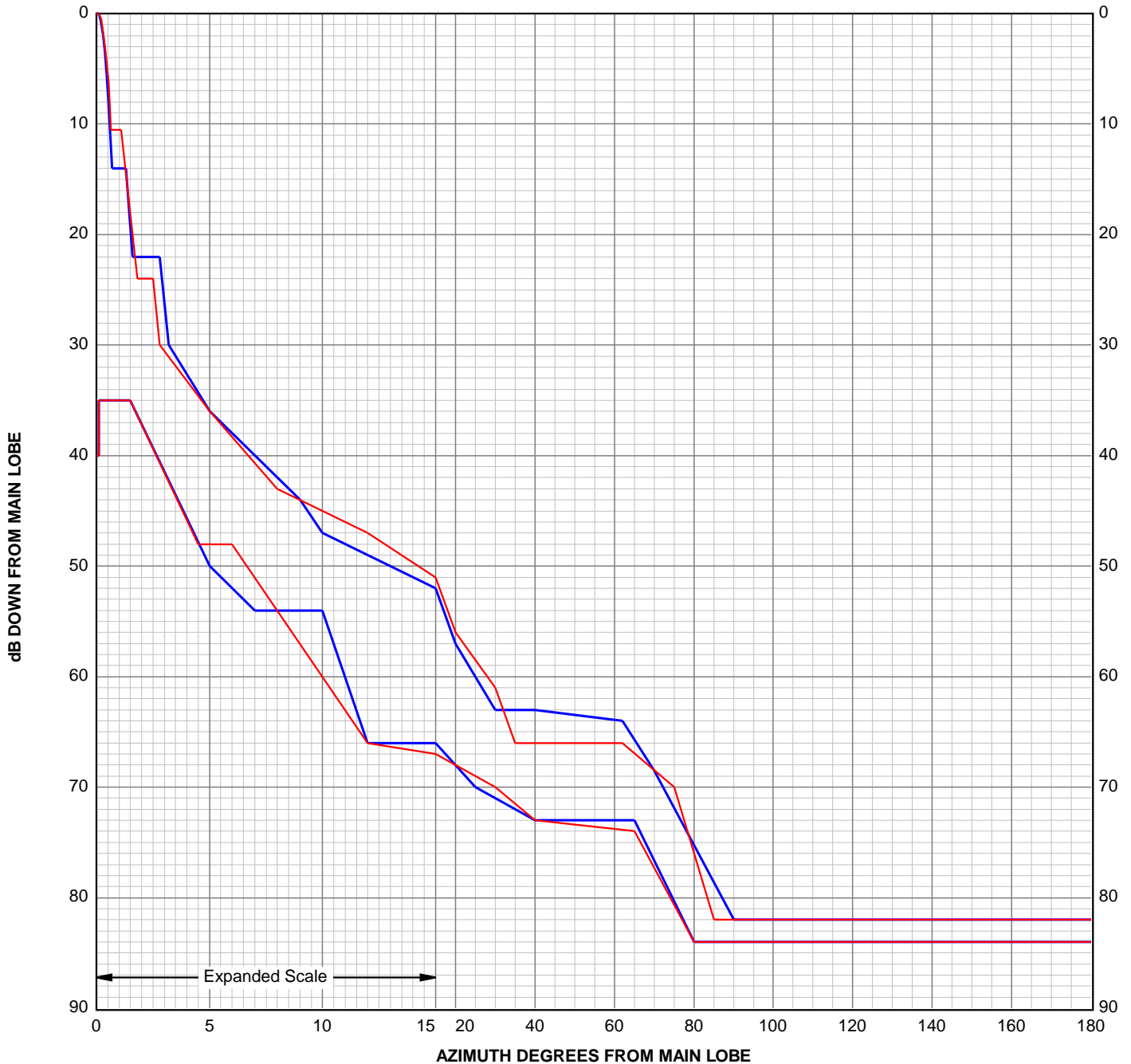
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".

ANDREW CORPORATION



RPE 7426

Engineering Approved:  
4 March 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
0.10	0.00	0.10	-40.00	0.10	0.00	0.10	-40.00
0.18	-0.60	0.11	-35.00	0.20	-0.50	0.11	-35.00
0.29	-1.90	1.50	-35.00	0.30	-1.70	1.50	-35.00
0.37	-3.40	5.00	-50.00	0.40	-3.40	4.50	-48.00
0.46	-5.50	7.00	-54.00	0.50	-5.50	6.00	-48.00
0.53	-8.00	10.00	-54.00	0.52	-6.00	10.00	-60.00
0.60	-11.00	12.00	-66.00	0.58	-8.00	12.00	-66.00
0.70	-14.00	15.00	-66.00	0.64	-10.50	15.00	-67.00
1.30	-14.00	25.00	-70.00	1.10	-10.50	30.00	-70.00
1.60	-22.00	40.00	-73.00	1.80	-24.00	40.00	-73.00
2.80	-22.00	65.00	-73.00	2.50	-24.00	65.00	-74.00
3.20	-30.00	80.00	-84.00	2.80	-30.00	80.00	-84.00
5.00	-36.00	180.00	-84.00	5.00	-36.00	180.00	-84.00
9.00	-44.00			8.00	-43.00		
10.00	-47.00			12.00	-47.00		
15.00	-52.00			15.00	-51.00		
20.00	-57.00			20.00	-56.00		
30.00	-63.00			30.00	-61.00		
40.00	-63.00			35.00	-66.00		
62.00	-64.00			62.00	-66.00		
70.00	-68.50			75.00	-70.00		
90.00	-82.00			85.00	-82.00		
180.00	-82.00			180.00	-82.00		

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