

### RADIATION PATTERN ENVELOPE

Antenna Type Number: USX12-7W  
12.00 Foot Antenna 7.125-8.500 GHz Dual Polarized  
Gain: 46.80 dBi at 7.813 GHz  
— Envelope for a Horizontally Polarized Antenna (HH, HV)  
— Envelope for a Vertically Polarized Antenna (VV, VH)

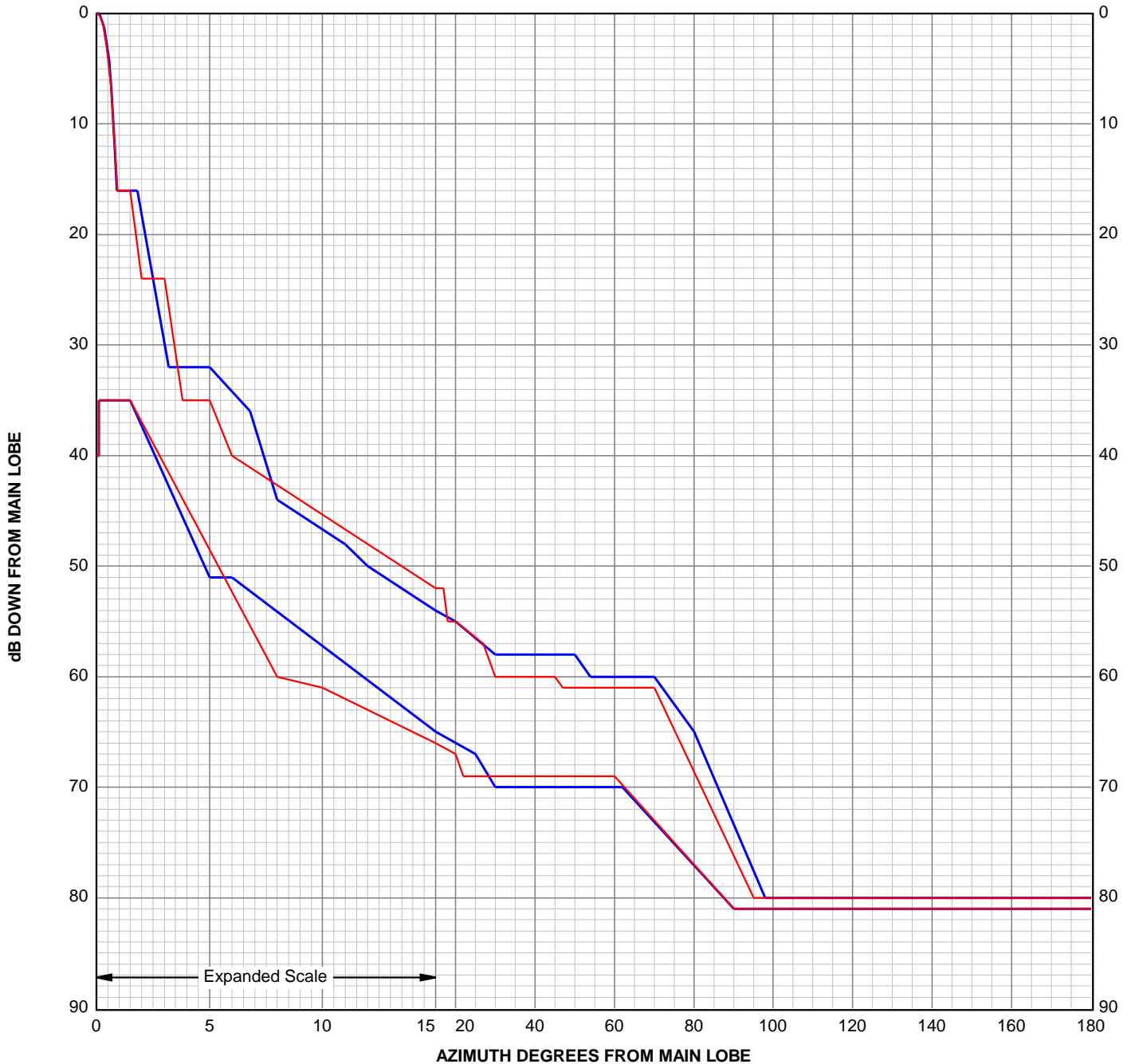
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".

ANDREW CORPORATION



RPE 7434

Engineering Approved:  
10 May 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
0.14	-0.01	0.10	-40.00	0.15	-0.20	0.10	-40.00
0.25	-0.66	0.11	-35.00	0.28	-1.00	0.11	-35.00
0.35	-1.31	1.50	-35.00	0.38	-2.00	1.50	-35.00
0.55	-4.18	5.00	-51.00	0.45	-3.00	8.00	-60.00
0.67	-7.05	6.00	-51.00	0.63	-6.50	10.00	-61.00
0.80	-11.84	15.00	-65.00	0.92	-16.00	15.00	-66.00
0.90	-16.00	25.00	-67.00	1.50	-16.00	20.00	-67.00
1.80	-16.00	30.00	-70.00	2.00	-24.00	22.00	-69.00
3.20	-32.00	62.00	-70.00	3.00	-24.00	60.00	-69.00
5.00	-32.00	90.00	-81.00	3.80	-35.00	90.00	-81.00
6.80	-36.00	180.00	-81.00	5.00	-35.00	180.00	-81.00
8.00	-44.00			6.00	-40.00		
11.00	-48.00			15.00	-52.00		
12.00	-50.00			17.00	-52.00		
15.00	-54.00			18.00	-55.00		
20.00	-55.00			20.00	-55.00		
30.00	-58.00			27.00	-57.00		
50.00	-58.00			30.00	-60.00		
54.00	-60.00			45.00	-60.00		
70.00	-60.00			47.00	-61.00		
80.00	-65.00			70.00	-61.00		
98.00	-80.00			95.00	-80.00		
180.00	-80.00			180.00	-80.00		

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