RADIATION PATTERN ENVELOPE

Antenna Type Number: USX6-611
6.00 Foot Antenna 5.925-7.125 GHz Dual Polarized
Gain: 39.30 dBi at 6.525 GHz
— Envelope for a Horizontally Polarized Antenna (HH, HV)
— Envelope for a Vertically Polarized Antenna (VV, VH)

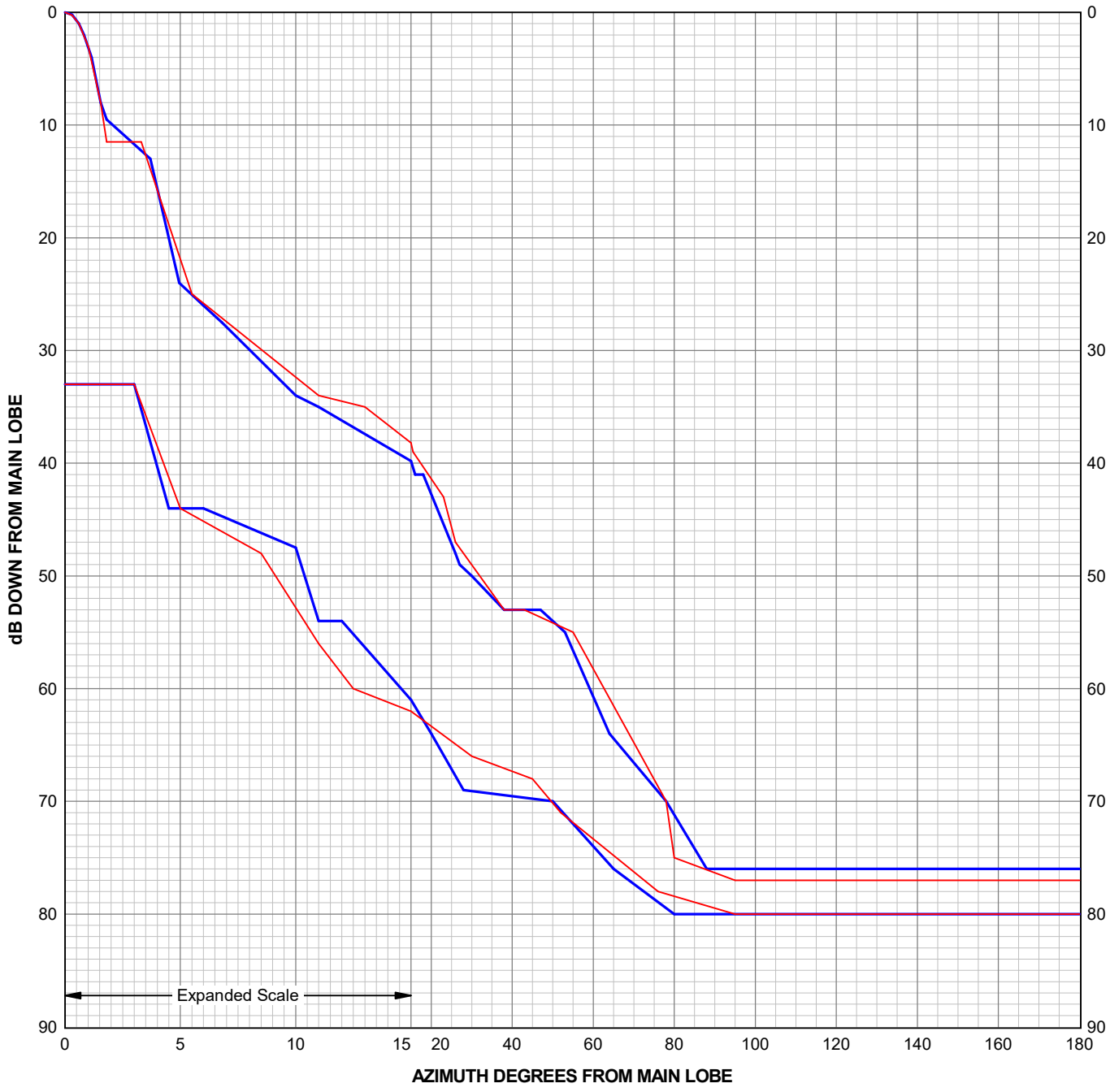
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".

ANDREW CORPORATION

ANDREW®

RPE 7455

Engineering Approved:
22 August 2025



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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	-33.00	0.00	0.00	0.00	-33.00
0.30	-0.20	3.00	-33.00	0.30	-0.25	3.00	-33.00
0.60	-1.00	4.50	-44.00	0.60	-1.00	5.00	-44.00
0.82	-2.00	6.00	-44.00	1.00	-3.00	8.50	-48.00
1.15	-4.00	10.00	-47.50	1.55	-8.00	11.00	-56.00
1.55	-8.00	11.00	-54.00	1.80	-11.50	12.50	-60.00
1.80	-9.50	12.00	-54.00	3.30	-11.50	15.00	-62.00
3.70	-13.00	15.00	-61.00	5.50	-25.00	30.00	-66.00
4.95	-24.00	20.00	-64.00	11.00	-34.00	45.00	-68.00
6.00	-26.00	28.00	-69.00	13.00	-35.00	52.00	-71.00
6.80	-27.50	50.00	-70.00	15.50	-39.00	76.00	-78.00
10.00	-34.00	65.00	-76.00	23.00	-43.00	95.00	-80.00
11.00	-35.00	80.00	-80.00	26.00	-47.00	180.00	-80.00
16.00	-41.00	180.00	-80.00	38.00	-53.00		
18.00	-41.00			43.00	-53.00		
26.00	-48.00			55.00	-55.00		
27.00	-49.00			78.00	-70.00		
30.00	-50.00			80.00	-75.00		
38.00	-53.00			95.00	-77.00		
47.00	-53.00			180.00	-77.00		
53.00	-55.00						
64.00	-64.00						
78.00	-70.00						
88.00	-76.00						
180.00	-76.00						

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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