

RADIATION PATTERN ENVELOPE

Antenna Type Number: USX8-15
8.00 Foot Antenna 14.400-15.350 GHz Dual Polarized
Gain: 48.80 dBi at 14.875 GHz
— Envelope for a Horizontally Polarized Antenna (HH, HV)
— Envelope for a Vertically Polarized Antenna (VV, VH)

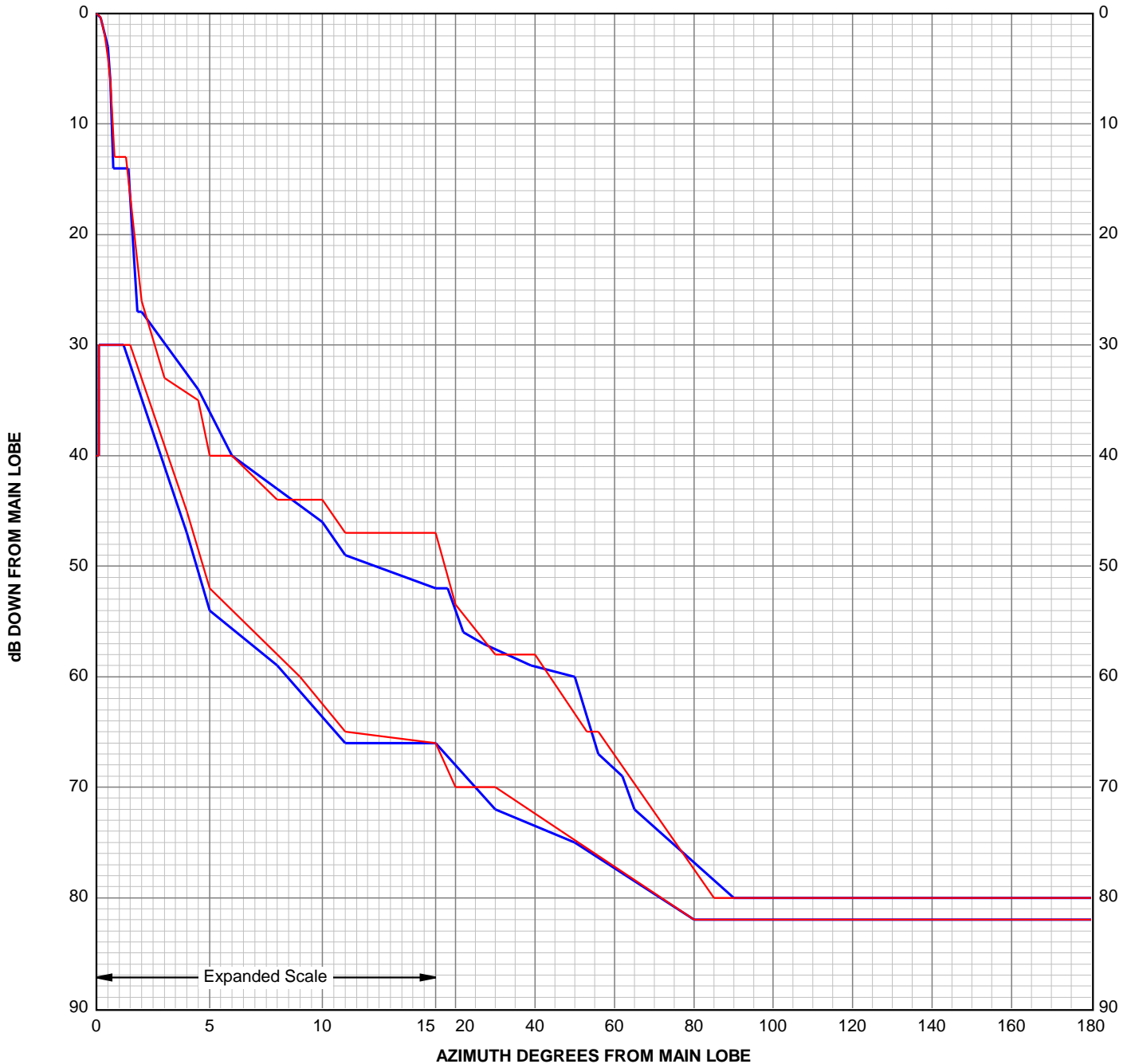
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".

ANDREW CORPORATION



RPE 7404

Engineering Approved:
3 June 2019



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 RPE: 7404
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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
0.18	-0.38	0.10	-40.00	0.18	-0.32	0.10	-40.00
0.50	-3.00	0.11	-30.00	0.38	-2.00	0.11	-30.00
0.60	-6.00	1.20	-30.00	0.50	-4.00	1.50	-30.00
0.75	-14.00	4.00	-47.00	0.60	-6.00	4.00	-45.00
1.40	-14.00	5.00	-54.00	0.80	-13.00	5.00	-52.00
1.80	-27.00	8.00	-59.00	1.30	-13.00	9.00	-60.00
2.00	-27.00	11.00	-66.00	2.00	-26.00	11.00	-65.00
4.50	-34.00	15.00	-66.00	3.00	-33.00	15.00	-66.00
6.00	-40.00	30.00	-72.00	4.50	-35.00	20.00	-70.00
10.00	-46.00	50.00	-75.00	5.00	-40.00	30.00	-70.00
11.00	-49.00	80.00	-82.00	6.00	-40.00	80.00	-82.00
15.00	-52.00	180.00	-82.00	8.00	-44.00	180.00	-82.00
18.00	-52.00			10.00	-44.00		
22.00	-56.00			11.00	-47.00		
27.00	-57.00			15.00	-47.00		
39.00	-59.00			20.00	-53.50		
50.00	-60.00			30.00	-58.00		
56.00	-67.00			40.00	-58.00		
62.00	-69.00			53.00	-65.00		
65.00	-72.00			56.00	-65.00		
90.00	-80.00			85.00	-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