

RADIATION PATTERN ENVELOPE

Antenna Type Number: USX10-7W
10.00 Foot Antenna 7.125-8.500 GHz Dual Polarized
Gain: 44.40 dBi at 7.813 GHz
— Envelope for a Horizontally Polarized Antenna (HH, HV)
— Envelope for a Vertically Polarized Antenna (VV, VH)

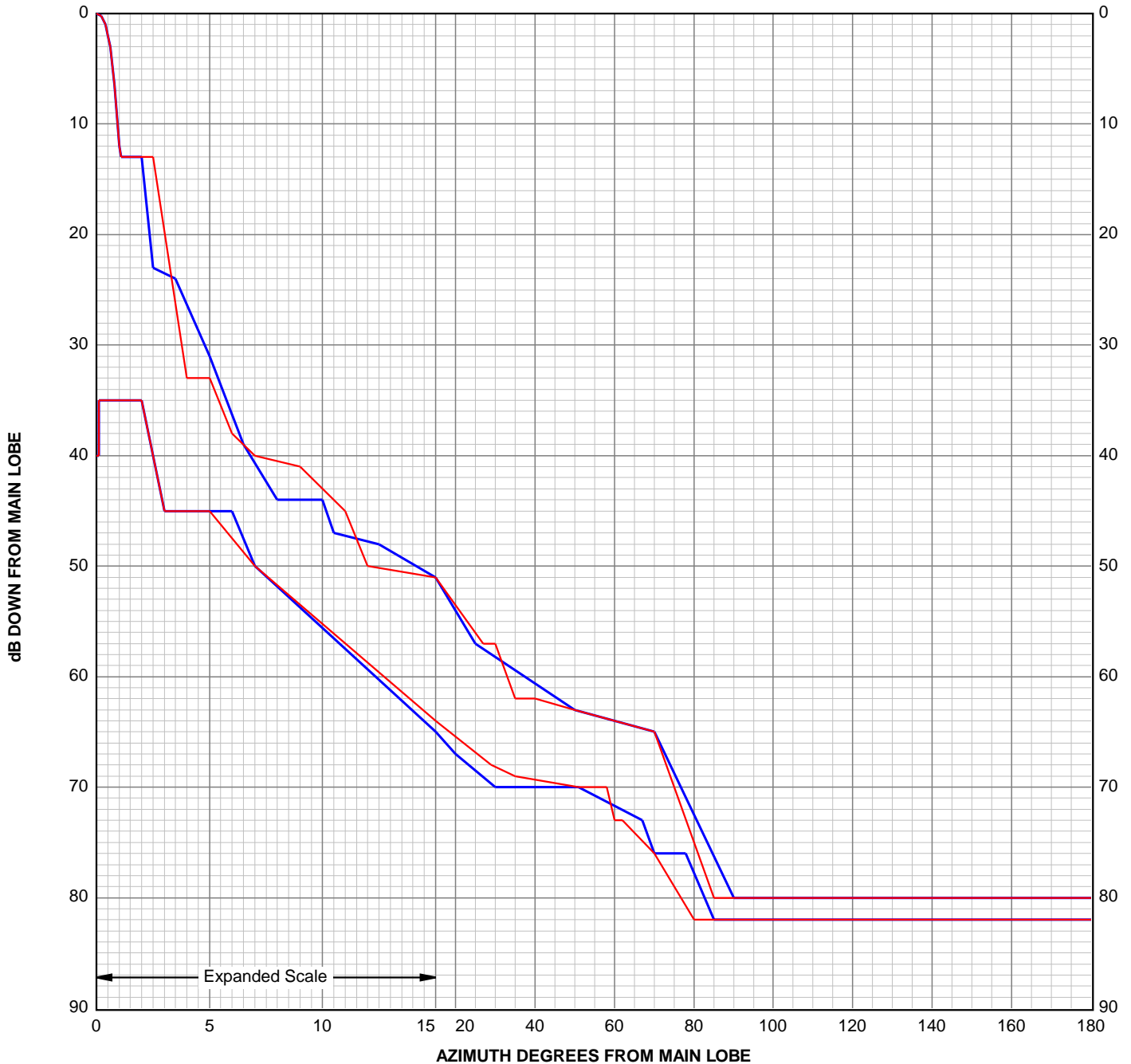
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".

ANDREW CORPORATION



RPE 7425

Engineering Approved:
1 March 2019



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 RPE: 7425
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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
0.20	-0.20	0.10	-40.00	0.20	-0.20	0.10	-40.00
0.40	-1.00	0.11	-35.00	0.40	-1.00	0.11	-35.00
0.50	-2.00	2.00	-35.00	0.50	-2.00	2.00	-35.00
0.60	-3.00	3.00	-45.00	0.60	-3.00	3.00	-45.00
0.80	-6.50	6.00	-45.00	0.80	-6.50	5.00	-45.00
1.00	-12.00	7.00	-50.00	1.00	-12.00	7.00	-50.00
1.10	-13.00	15.00	-65.00	1.10	-13.00	15.00	-64.00
2.00	-13.00	20.00	-67.00	2.50	-13.00	29.00	-68.00
2.50	-23.00	30.00	-70.00	4.00	-33.00	35.00	-69.00
3.50	-24.00	51.00	-70.00	5.00	-33.00	51.00	-70.00
5.00	-31.00	67.00	-73.00	6.00	-38.00	58.00	-70.00
6.50	-39.00	70.00	-76.00	7.00	-40.00	60.00	-73.00
8.00	-44.00	78.00	-76.00	9.00	-41.00	62.00	-73.00
10.00	-44.00	85.00	-82.00	11.00	-45.00	70.00	-76.00
10.50	-47.00	180.00	-82.00	12.00	-50.00	80.00	-82.00
12.50	-48.00			15.00	-51.00	180.00	-82.00
15.00	-51.00			27.00	-57.00		
25.00	-57.00			30.00	-57.00		
50.00	-63.00			35.00	-62.00		
70.00	-65.00			40.00	-62.00		
90.00	-80.00			50.00	-63.00		
180.00	-80.00			70.00	-65.00		
				85.00	-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