

RADIATION PATTERN ENVELOPE

Antenna Type Number: USX10-13W
10.00 Foot Antenna 12.200-13.250 GHz Dual Polarized
Gain: 48.80 dBi at 12.725 GHz
— Envelope for a Horizontally Polarized Antenna (HH, HV)
— Envelope for a Vertically Polarized Antenna (VV, VH)

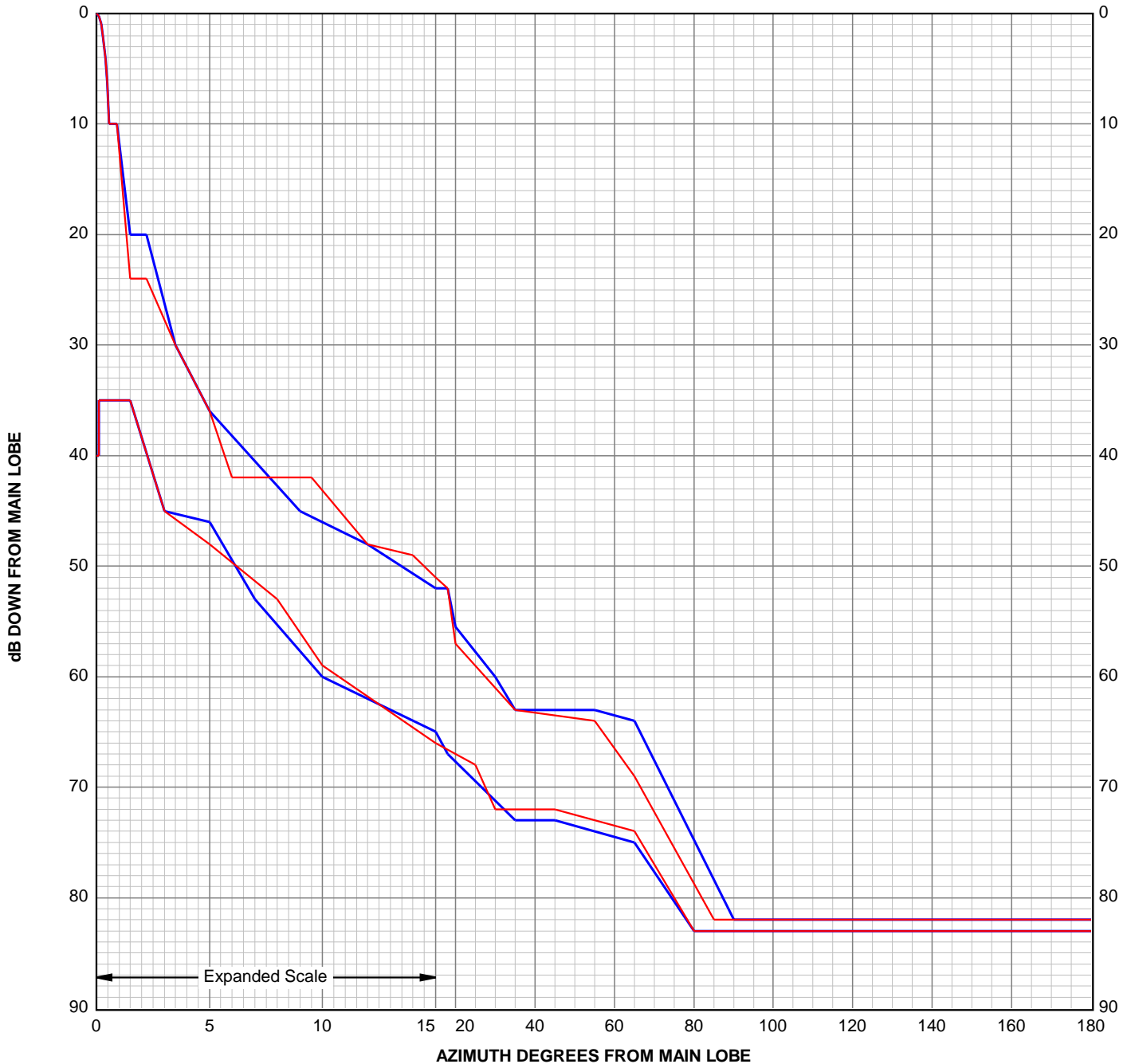
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".

ANDREW CORPORATION



RPE 7427

Engineering Approved:
12 March 2019



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 RPE: 7427
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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	-0.20	0.10	-40.00	0.10	-0.20	0.10	-40.00
0.20	-0.90	0.11	-35.00	0.20	-0.90	0.11	-35.00
0.30	-2.20	1.50	-35.00	0.30	-2.20	1.50	-35.00
0.40	-4.05	3.00	-45.00	0.40	-4.05	3.00	-45.00
0.47	-6.25	5.00	-46.00	0.47	-6.25	5.00	-48.00
0.55	-10.00	7.00	-53.00	0.55	-10.00	8.00	-53.00
0.65	-10.00	10.00	-60.00	0.90	-10.00	10.00	-59.00
0.90	-10.00	15.00	-65.00	1.50	-24.00	15.00	-66.00
1.50	-20.00	18.00	-67.00	2.20	-24.00	25.00	-68.00
2.20	-20.00	35.00	-73.00	3.50	-30.00	30.00	-72.00
3.50	-30.00	45.00	-73.00	5.00	-36.00	45.00	-72.00
5.00	-36.00	65.00	-75.00	6.00	-42.00	65.00	-74.00
9.00	-45.00	80.00	-83.00	9.50	-42.00	80.00	-83.00
12.00	-48.00	180.00	-83.00	12.00	-48.00	180.00	-83.00
15.00	-52.00			14.00	-49.00		
18.00	-52.00			15.00	-51.00		
20.00	-55.50			18.00	-52.00		
30.00	-60.00			20.00	-57.00		
35.00	-63.00			35.00	-63.00		
55.00	-63.00			55.00	-64.00		
65.00	-64.00			65.00	-69.00		
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