

RADIATION PATTERN ENVELOPE

Antenna Type Number: USX8-13W
8.00 Foot Antenna 12.200-13.250 GHz Dual Polarized
Gain: 47.60 dBi at 12.725 GHz
— Envelope for a Horizontally Polarized Antenna (HH, HV)
— Envelope for a Vertically Polarized Antenna (VV, VH)

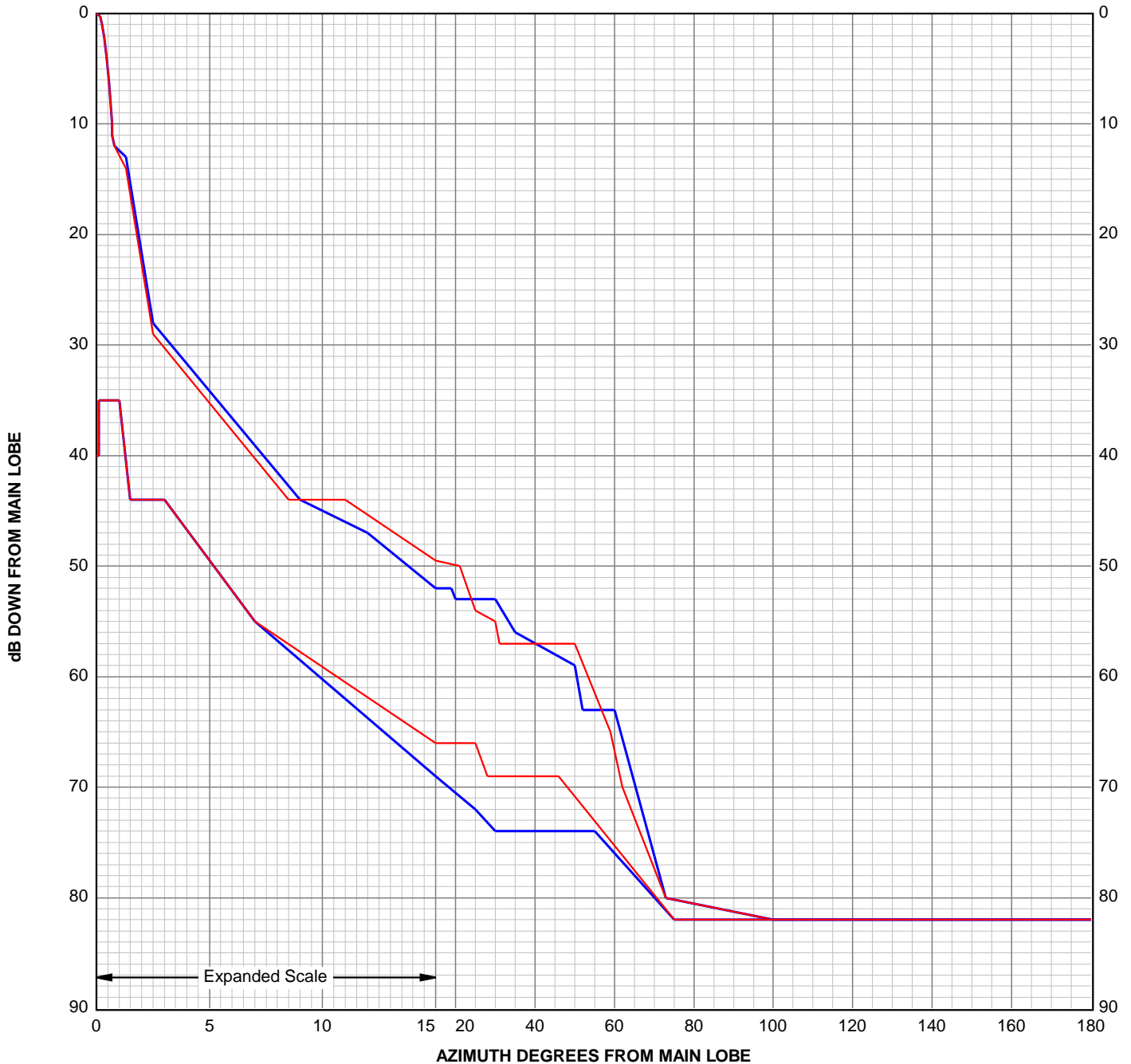
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".

ANDREW CORPORATION



RPE 7403

Engineering Approved:
3 June 2019



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 RPE: 7403
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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
0.15	-0.20	0.10	-40.00	0.15	-0.20	0.10	-40.00
0.25	-0.90	0.11	-35.00	0.25	-0.90	0.11	-35.00
0.35	-2.20	1.00	-35.00	0.35	-2.20	1.00	-35.00
0.45	-4.05	1.50	-44.00	0.45	-4.05	1.50	-44.00
0.55	-6.25	3.00	-44.00	0.55	-6.25	3.00	-44.00
0.68	-10.00	7.00	-55.00	0.68	-10.00	7.00	-55.00
0.70	-11.00	15.00	-69.00	0.70	-11.00	15.00	-66.00
0.80	-12.00	25.00	-72.00	0.80	-12.00	25.00	-66.00
1.30	-13.00	30.00	-74.00	1.30	-14.00	28.00	-69.00
2.50	-28.00	55.00	-74.00	2.50	-29.00	46.00	-69.00
9.00	-44.00	75.00	-82.00	8.50	-44.00	75.00	-82.00
12.00	-47.00	180.00	-82.00	11.00	-44.00	180.00	-82.00
15.00	-52.00			15.00	-49.50		
19.00	-52.00			21.00	-50.00		
20.00	-53.00			25.00	-54.00		
30.00	-53.00			30.00	-55.00		
35.00	-56.00			31.00	-57.00		
50.00	-59.00			50.00	-57.00		
52.00	-63.00			59.00	-65.00		
60.00	-63.00			62.00	-70.00		
73.00	-80.00			73.00	-80.00		
100.00	-82.00			100.00	-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