

RADIATION PATTERN ENVELOPE

Antenna Type Number: USX12-3
12.00 Foot Antenna 3.600-4.200 GHz Dual Polarized
Gain: 40.90 dBi at 3.900 GHz
— Envelope for a Horizontally Polarized Antenna (HH, HV)
— Envelope for a Vertically Polarized Antenna (VV, VH)

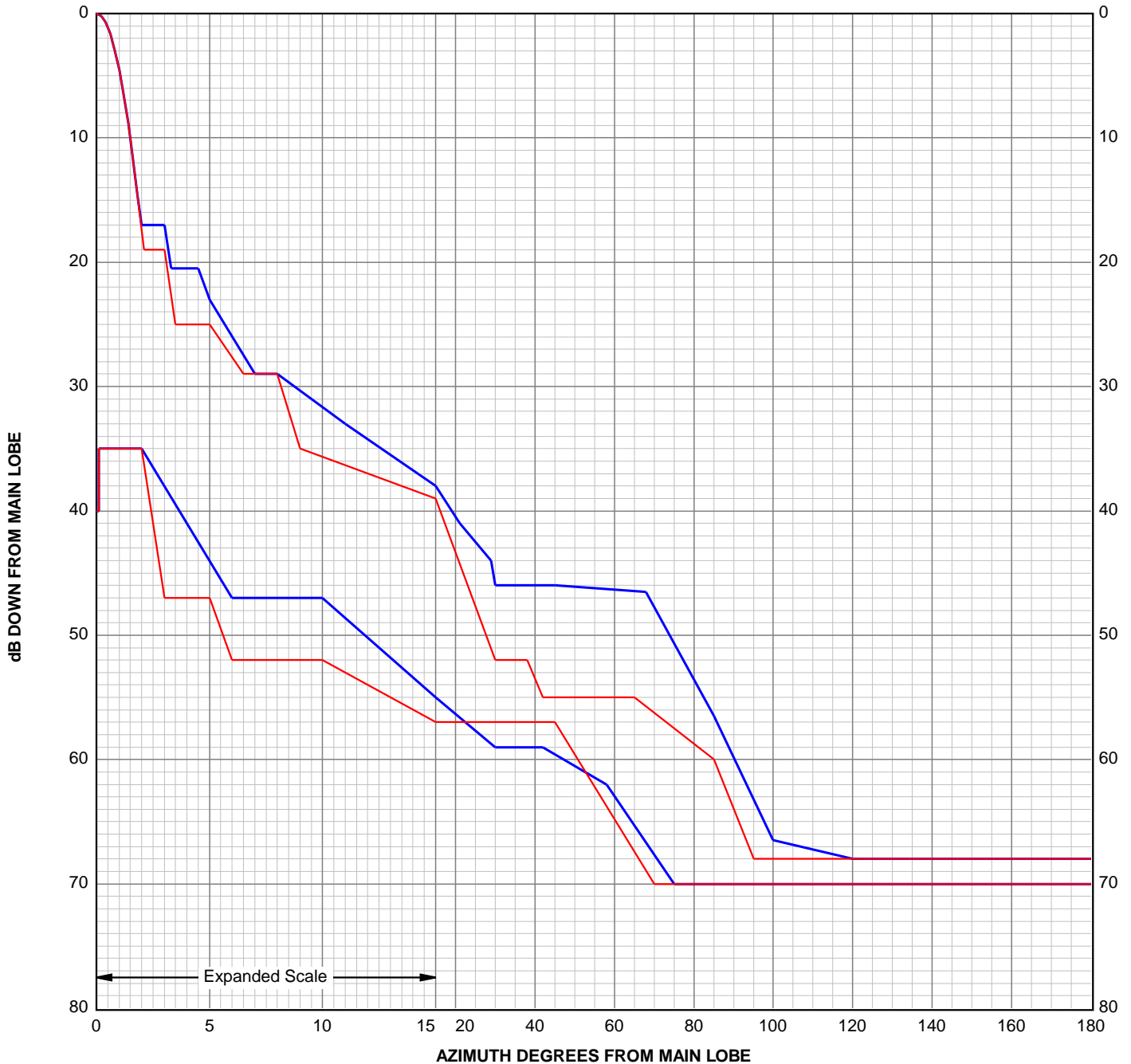
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".

ANDREW CORPORATION



RPE 7431

Engineering Approved:
10 May 2019



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 RPE: 7431
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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	-0.70	0.11	-35.00	0.40	-0.70	0.11	-35.00
0.60	-1.60	2.00	-35.00	0.60	-1.60	2.00	-35.00
0.80	-2.90	6.00	-47.00	0.80	-2.90	3.00	-47.00
1.00	-4.50	10.00	-47.00	1.00	-4.50	5.00	-47.00
1.20	-6.50	15.00	-55.00	1.20	-6.50	6.00	-52.00
1.40	-8.80	30.00	-59.00	1.40	-8.80	10.00	-52.00
1.60	-11.50	42.00	-59.00	1.60	-11.50	15.00	-57.00
1.80	-14.60	58.00	-62.00	1.80	-14.60	45.00	-57.00
2.00	-17.00	75.00	-70.00	2.10	-19.00	70.00	-70.00
3.00	-17.00	180.00	-70.00	3.00	-19.00	180.00	-70.00
3.30	-20.50			3.50	-25.00		
4.50	-20.50			5.00	-25.00		
5.00	-23.00			6.50	-29.00		
7.00	-29.00			8.00	-29.00		
8.00	-29.00			9.00	-35.00		
11.00	-33.00			15.00	-39.00		
15.00	-38.00			30.00	-52.00		
21.00	-41.00			38.00	-52.00		
29.00	-44.00			42.00	-55.00		
30.00	-46.00			65.00	-55.00		
45.00	-46.00			85.00	-60.00		
68.00	-46.50			95.00	-68.00		
85.00	-56.50			180.00	-68.00		
100.00	-66.50						
120.00	-68.00						
180.00	-68.00						

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