

### RADIATION PATTERN ENVELOPE

Antenna Type Number: HX8-7W  
8.00 Foot Antenna 7.125-8.500 GHz Dual Polarized  
Gain: 42.90 dBi at 7.813 GHz

- Envelope for a Horizontally Polarized Antenna (HH, HV)
- Envelope for a Vertically Polarized Antenna (VV, VH)

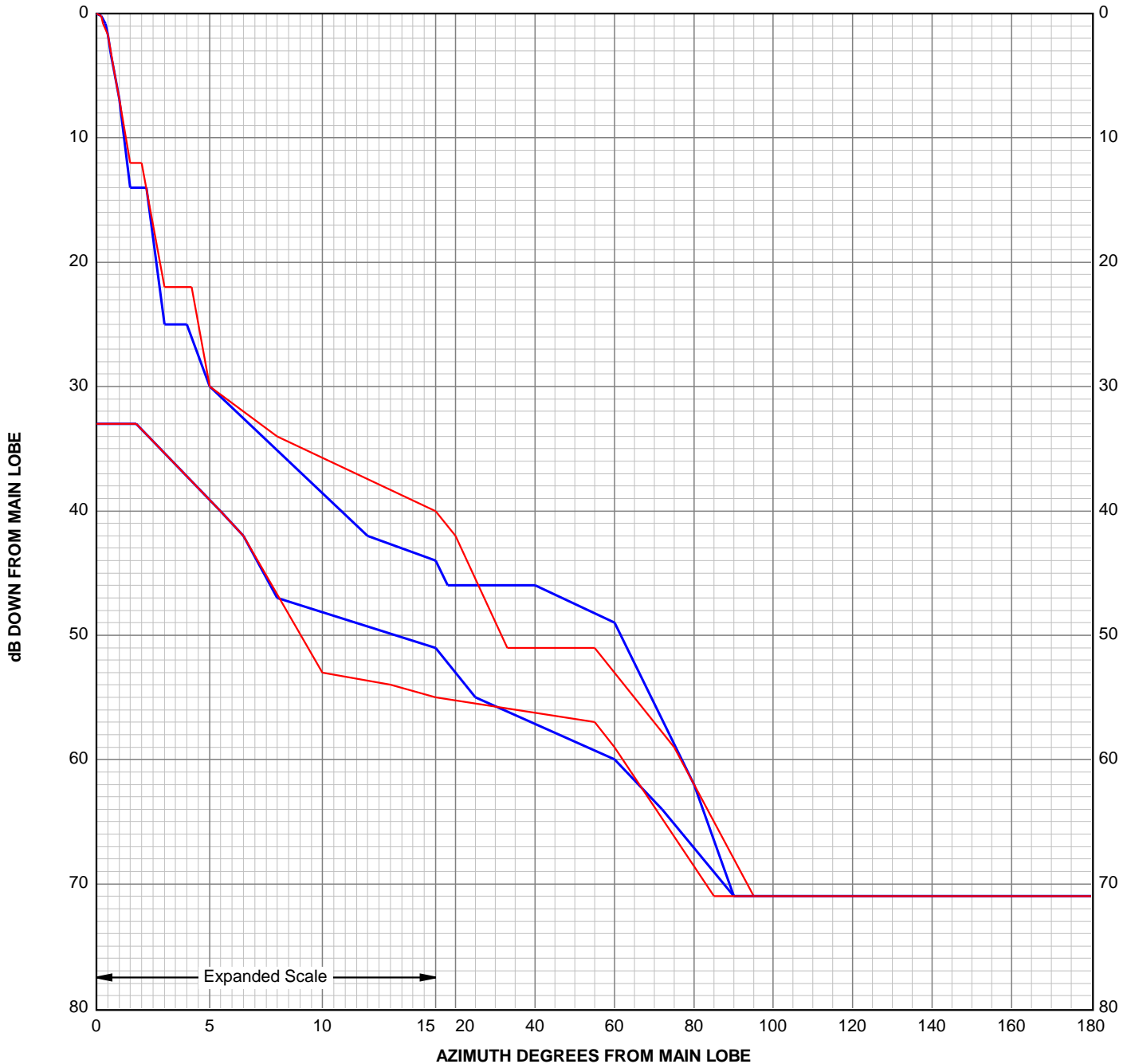
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".

ANDREW CORPORATION



RPE 7390

Engineering Approved:  
16 July 2018



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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	-33.00	0.00	0.00	0.00	-33.00
0.20	-0.20	1.75	-33.00	0.20	-0.20	1.75	-33.00
0.40	-0.80	5.50	-40.00	0.30	-0.80	5.50	-40.00
0.50	-1.70	6.50	-42.00	0.50	-1.70	6.50	-42.00
0.65	-3.30	8.00	-47.00	0.65	-3.10	10.00	-53.00
0.80	-4.80	15.00	-51.00	0.80	-4.80	13.00	-54.00
1.00	-6.90	25.00	-55.00	1.00	-6.90	15.00	-55.00
1.50	-14.00	60.00	-60.00	1.50	-12.00	55.00	-57.00
2.20	-14.00	72.00	-64.00	2.00	-12.00	60.00	-59.00
3.00	-25.00	90.00	-71.00	3.00	-22.00	85.00	-71.00
4.00	-25.00	180.00	-71.00	4.20	-22.00	180.00	-71.00
5.00	-30.00			5.00	-30.00		
12.00	-42.00			8.00	-34.00		
15.00	-44.00			15.00	-40.00		
18.00	-46.00			20.00	-42.00		
40.00	-46.00			33.00	-51.00		
60.00	-49.00			55.00	-51.00		
80.00	-62.00			75.00	-59.00		
90.00	-71.00			95.00	-71.00		
180.00	-71.00			180.00	-71.00		

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