

RADIATION PATTERN ENVELOPE

Antenna Type Number: HX10-7W
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)

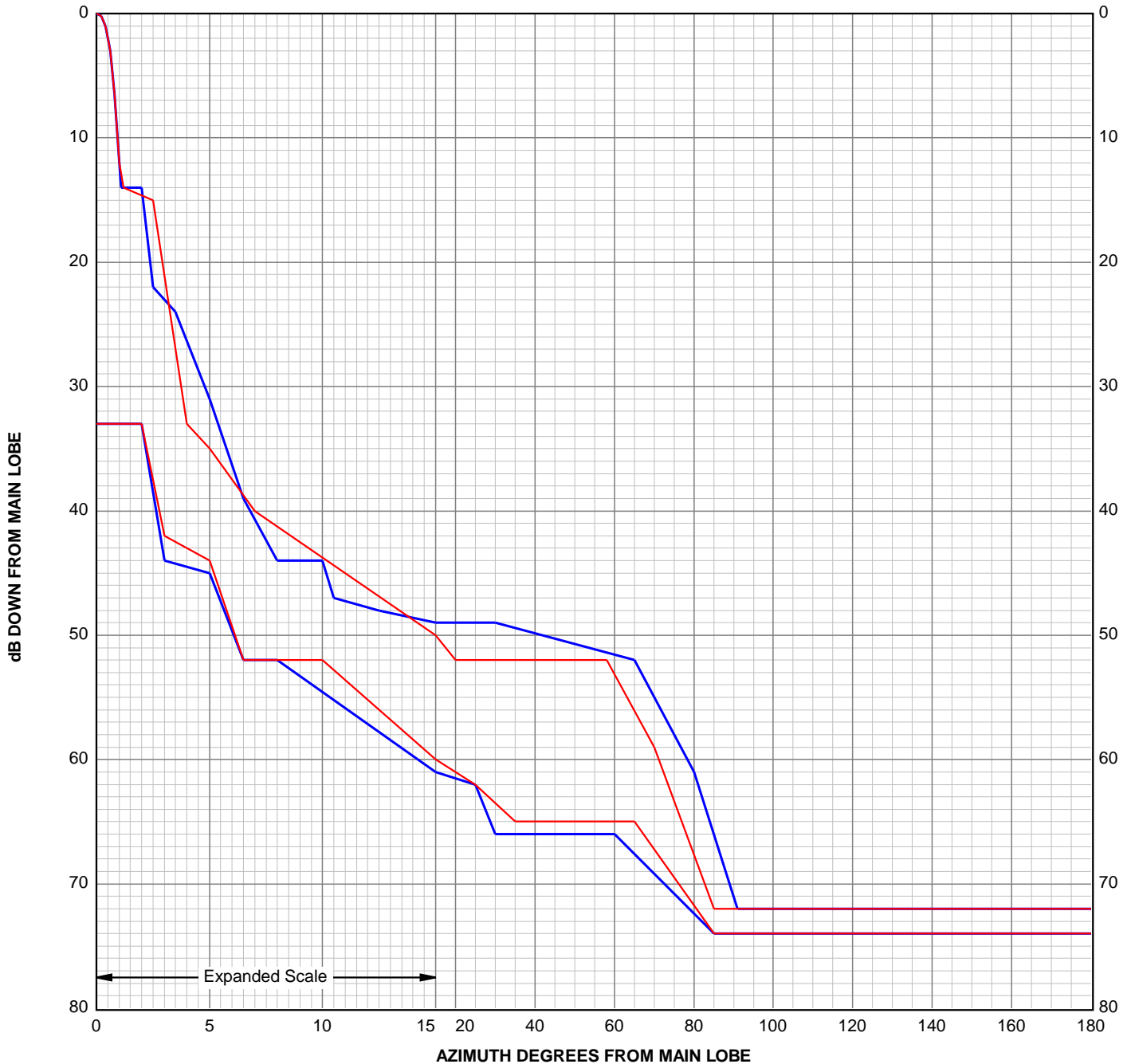
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".

ANDREW CORPORATION



RPE 7419

Engineering Approved:
7 March 2019



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 RPE: 7419
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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	2.00	-33.00	0.20	-0.20	2.00	-33.00
0.40	-1.00	3.00	-44.00	0.40	-1.00	3.00	-42.00
0.50	-2.00	5.00	-45.00	0.50	-2.00	5.00	-44.00
0.60	-3.00	6.50	-52.00	0.60	-3.00	6.50	-52.00
0.80	-6.50	8.00	-52.00	0.80	-6.50	10.00	-52.00
1.00	-12.00	15.00	-61.00	1.00	-12.00	15.00	-60.00
1.10	-14.00	25.00	-62.00	1.20	-14.00	25.00	-62.00
2.00	-14.00	30.00	-66.00	2.50	-15.00	35.00	-65.00
2.50	-22.00	60.00	-66.00	4.00	-33.00	65.00	-65.00
3.50	-24.00	85.00	-74.00	5.00	-35.00	85.00	-74.00
5.00	-31.00	180.00	-74.00	7.00	-40.00	180.00	-74.00
6.50	-39.00			15.00	-50.00		
8.00	-44.00			20.00	-52.00		
10.00	-44.00			58.00	-52.00		
10.50	-47.00			70.00	-59.00		
12.50	-48.00			85.00	-72.00		
15.00	-49.00			180.00	-72.00		
30.00	-49.00						
65.00	-52.00						
80.00	-61.00						
91.00	-72.00						
180.00	-72.00						

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