

RADIATION PATTERN ENVELOPE

Antenna Type Number: HX12-7W
12.00 Foot Antenna 7.125-8.500 GHz Dual Polarized
Gain: 46.80 dBi at 7.813 GHz
— Envelope for a Horizontally Polarized Antenna (HH, HV)
— Envelope for a Vertically Polarized Antenna (VV, VH)

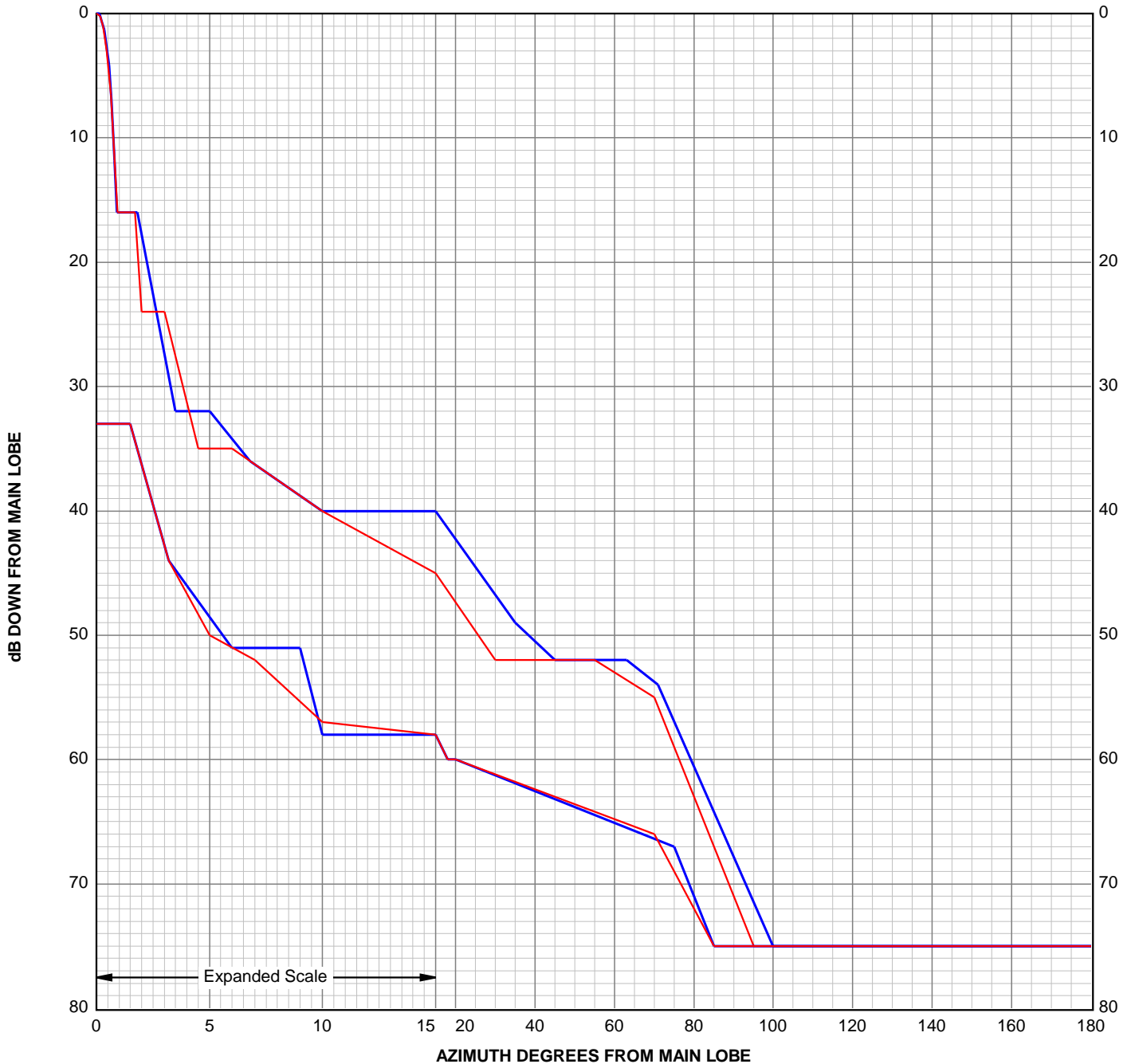
For further information, ask for Andrew Bulletin 1032, "Radiation Pattern Envelopes".

ANDREW CORPORATION



RPE 7430

Engineering Approved:
10 May 2019



Antenna Type Number: HX12-7W
 12.00 Foot Antenna 7.125-8.500 GHz Dual Polarized
 Gain: 46.80 dBi at 7.813 GHz
 RPE: 7430
 Engineering Approved: 10 May 2019



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
0.14	-0.01	1.50	-33.00	0.15	-0.20	1.50	-33.00
0.25	-0.66	3.20	-44.00	0.28	-1.00	3.20	-44.00
0.35	-1.31	6.00	-51.00	0.38	-2.00	5.00	-50.00
0.55	-4.18	9.00	-51.00	0.45	-3.00	7.00	-52.00
0.67	-7.05	10.00	-58.00	0.63	-6.50	10.00	-57.00
0.80	-11.84	15.00	-58.00	0.92	-16.00	15.00	-58.00
0.90	-16.00	18.00	-60.00	1.70	-16.00	18.00	-60.00
1.80	-16.00	20.00	-60.00	2.00	-24.00	20.00	-60.00
3.50	-32.00	75.00	-67.00	3.00	-24.00	70.00	-66.00
5.00	-32.00	85.00	-75.00	4.50	-35.00	85.00	-75.00
6.80	-36.00	180.00	-75.00	6.00	-35.00	180.00	-75.00
10.00	-40.00			10.00	-40.00		
15.00	-40.00			15.00	-45.00		
35.00	-49.00			30.00	-52.00		
45.00	-52.00			55.00	-52.00		
63.00	-52.00			70.00	-55.00		
71.00	-54.00			95.00	-75.00		
100.00	-75.00			180.00	-75.00		
180.00	-75.00						

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