

WNCH. A

04-29-2011

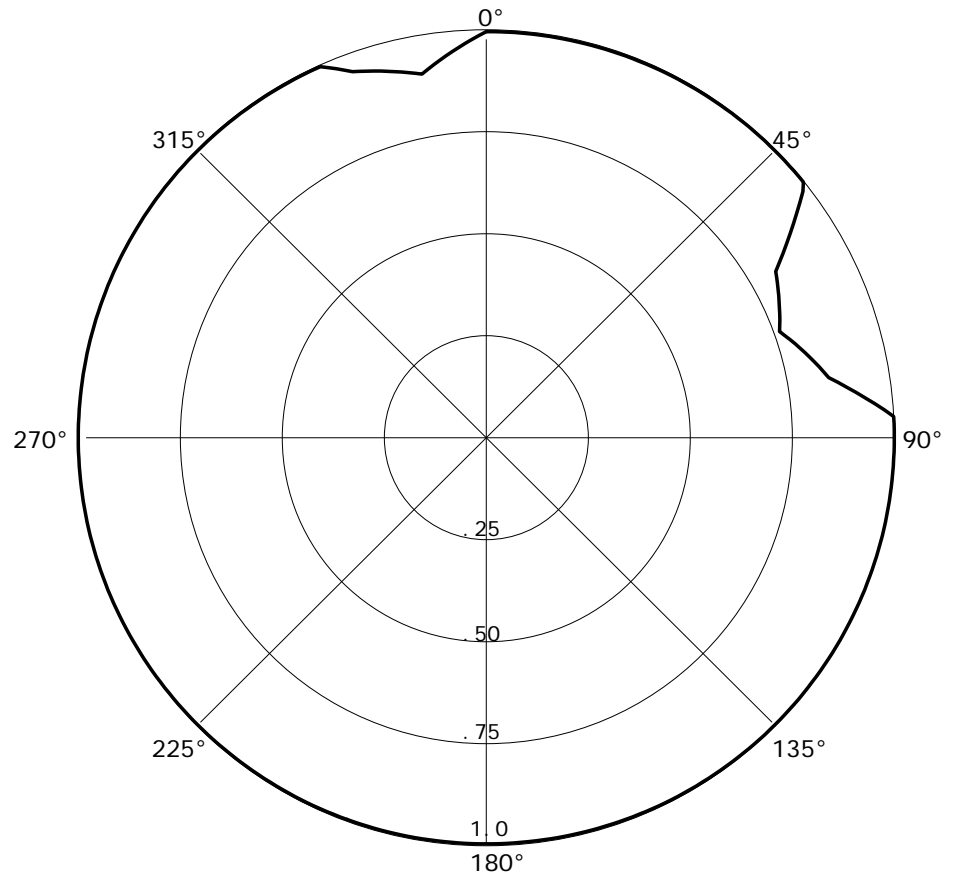
RMS(V) = .983

Graph is Relative Field

Azi	Field	dBk	kW
000	1.000	02.041	1.600
010	1.000	02.041	1.600
020	1.000	02.041	1.600
030	1.000	02.041	1.600
040	1.000	02.041	1.600
050	1.000	02.041	1.600
060	0.819	00.307	1.073
070	0.765	-00.286	0.936
080	0.852	00.654	1.163
090	1.000	02.041	1.600
100	1.000	02.041	1.600
110	1.000	02.041	1.600
120	1.000	02.041	1.600
130	1.000	02.041	1.600
140	1.000	02.041	1.600
150	1.000	02.041	1.600
160	1.000	02.041	1.600
170	1.000	02.041	1.600
180	1.000	02.041	1.600
190	1.000	02.041	1.600
200	1.000	02.041	1.600
210	1.000	02.041	1.600
220	1.000	02.041	1.600
230	1.000	02.041	1.600
240	1.000	02.041	1.600
250	1.000	02.041	1.600
260	1.000	02.041	1.600
270	1.000	02.041	1.600
280	1.000	02.041	1.600
290	1.000	02.041	1.600
300	1.000	02.041	1.600
310	1.000	02.041	1.600
320	1.000	02.041	1.600
330	1.000	02.041	1.600
340	0.959	01.678	1.471
350	0.909	01.212	1.322

Extra Points:

51	1.000	02.041	1.600
87	1.000	02.041	1.600
336	1.000	02.041	1.600



Antenna Mfg.: Shively Labs
Antenna Type: 6014-2/3R

Date: 4/29/2011

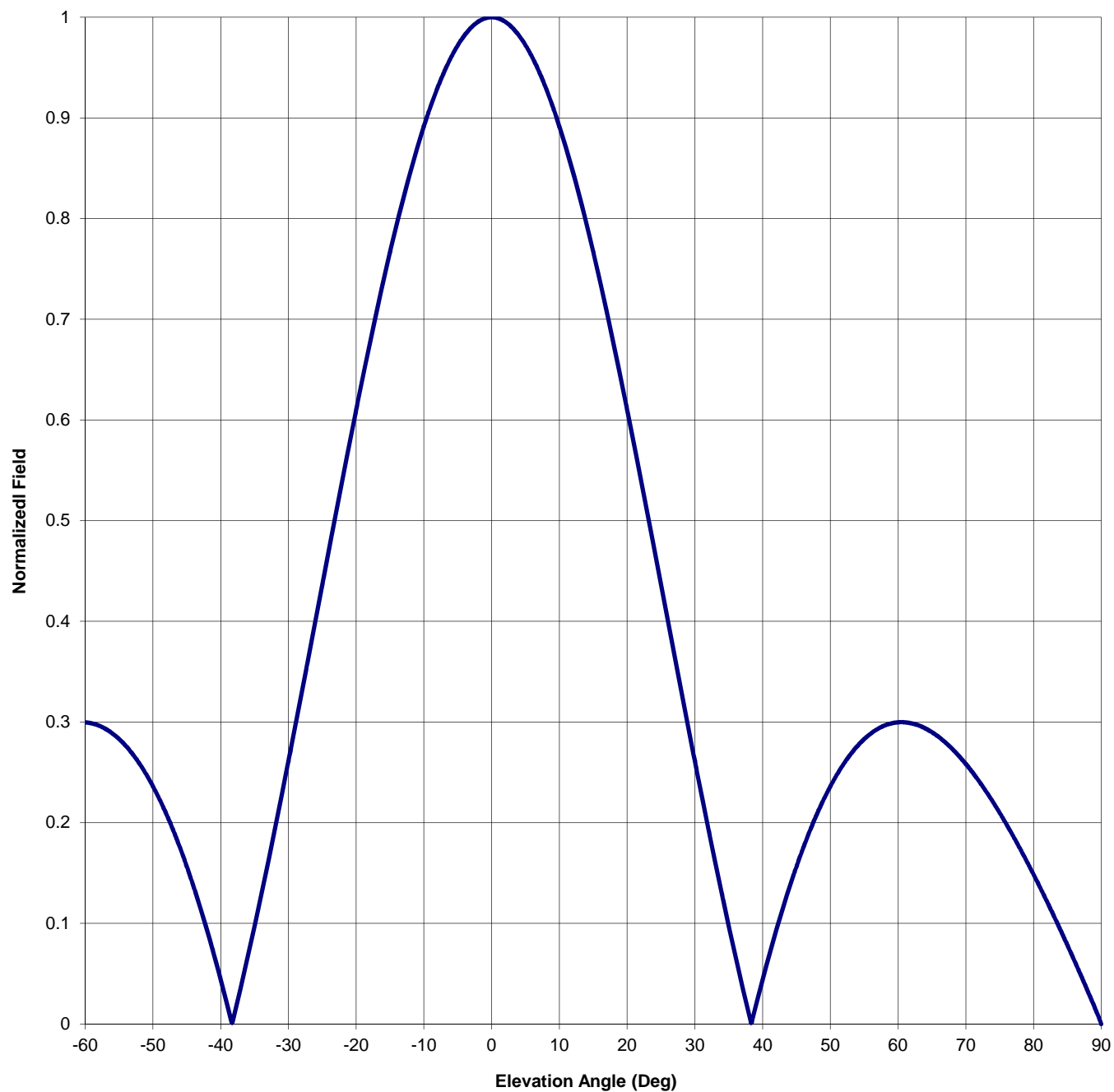
Station: WNCH

Frequency: 88.1

Channel #: 201

Figure: Figure 3

Beam Tilt	0	
Gain (Max)	1.472	1.680 dB
Gain (Horizon)	1.472	1.680 dB



Directional Antenna

The proposed custom directional panel antenna pattern meets the Commission's rules in that the radio frequency emission does not change more than two dB for each ten degrees of azimuthal variation. Also, the maximum pattern attenuation in the deepest null is less than 15 dB. The pattern shown is a composite of the maximum field values in the horizontal and vertical planes.

The proposed panel antenna will be mounted on the side of a tower that has been specified by the antenna manufacturer in accordance with the instructions provided by the manufacturer. The antenna will not be mounted on the top of a tower that includes a top mounted platform larger than the nominal cross-sectional area of the tower in the horizontal plane. No other antennas of any type will be mounted at the same tower level as the directional antenna nor within the horizontal or vertical distance specified by the manufacturer as being necessary to maintain proper directional operation. The antenna will be designed and tested by a major manufacturer of broadcast antennas known to the Commission. The pattern will be achieved through traditional methods including power-splitting, resonators and phasing.