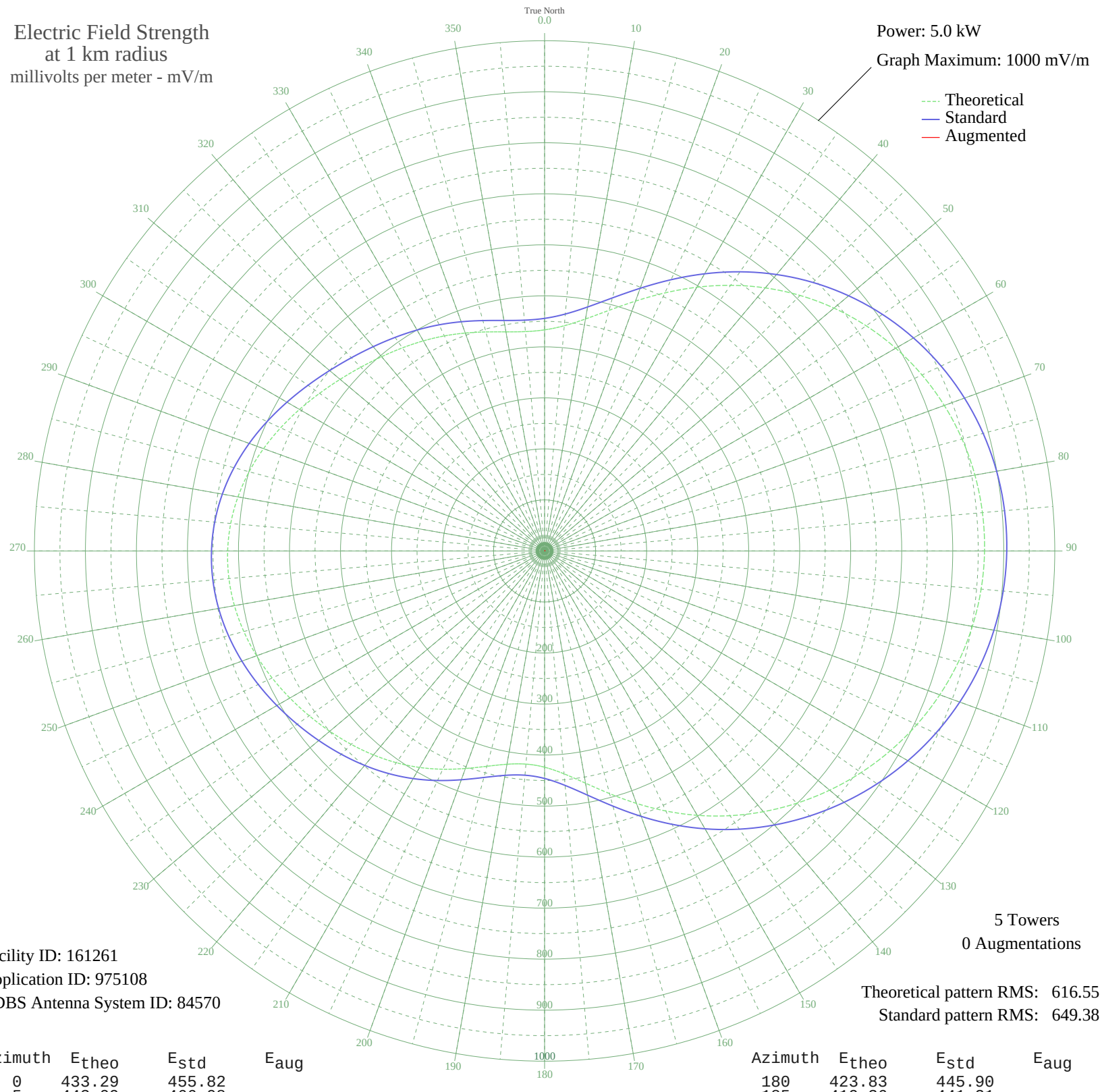
NEW MASONBORO, NC BNP-20040130BEM 820 kHz

Critical Hours

Electric Field Strength
at 1 km radius
millivolts per meter - mV/m



Power: 5.0 kW

Graph Maximum: 1000 mV/m

Theoretical
Standard
Augmented

5 Towers
0 Augmentations

Facility ID: 161261
Application ID: 975108
CDBS Antenna System ID: 84570

Theoretical pattern RMS: 616.55
Standard pattern RMS: 649.38

Azimuth	E_{theo}	E_{std}	E_{aug}
0	433.29	455.82	
5	443.09	466.08	
10	461.64	485.53	
15	488.23	513.41	
20	521.10	547.86	
25	557.99	586.56	
30	596.74	627.20	
35	635.53	667.90	
40	673.01	707.21	
45	708.21	744.14	
50	740.49	778.02	
55	769.43	808.39	
60	794.75	834.95	
65	816.24	857.50	
70	833.75	875.89	
75	847.19	889.99	
80	856.47	899.73	
85	861.53	905.04	
90	862.36	905.91	
95	858.97	902.35	
100	851.41	894.41	
105	839.79	882.22	
110	824.29	865.96	
115	805.16	845.88	
120	782.73	822.34	
125	757.35	795.71	
130	729.40	766.38	
135	699.23	734.73	
140	667.14	701.06	
145	633.39	665.64	
150	598.28	628.82	
155	562.35	591.13	
160	526.53	553.56	
165	492.39	517.76	
170	462.16	486.08	
175	438.51	461.28	

The theoretical pattern is used to create the standard pattern. Augmentations (if any) expand the standard pattern in specified directions. See Sections 73.150 and 73.152 of the FCC's Rules.

AM coverage may not mirror the pattern shown here. Additional factors such as ground conductivity or skywave propagation affect how far the AM signal will travel.

Patterns for stations outside the USA are based on notified parameters.

AM directional patterns created before 1982 used units of 1 mV/m at 1 mile, not one kilometer. The pattern values on such plots at 1 mile will be 0.62137 of the values listed here. Measured pattern values may vary from values shown here.

Plot is best printed on 11" by 17" or larger paper.

15 Nov 2005

Prepared by Audio Division, Media Bureau
Federal Communications Commission

Azimuth	E_{theo}	E_{std}	E_{aug}
180	423.83	445.90	
185	419.36	441.21	
190	424.48	446.58	
195	436.93	459.63	
200	453.70	477.21	
205	472.02	496.41	
210	489.96	515.22	
215	506.61	532.67	
220	521.85	548.65	
225	536.06	563.56	
230	549.74	577.90	
235	563.21	592.04	
240	576.48	605.95	
245	589.18	619.27	
250	600.71	631.36	
255	610.33	641.46	
260	617.32	648.79	
265	621.10	652.75	
270	621.25	652.91	
275	617.61	649.09	
280	610.28	641.40	
285	599.62	630.22	
290	586.23	616.18	
295	570.94	600.14	
300	554.71	583.11	
305	538.52	566.14	
310	523.22	550.09	
315	509.35	535.54	
320	497.01	522.61	
325	485.89	510.95	
330	475.41	499.96	
335	464.99	489.04	
340	454.47	478.02	
345	444.37	467.42	
350	436.03	458.68	
355	431.56	454.00	