

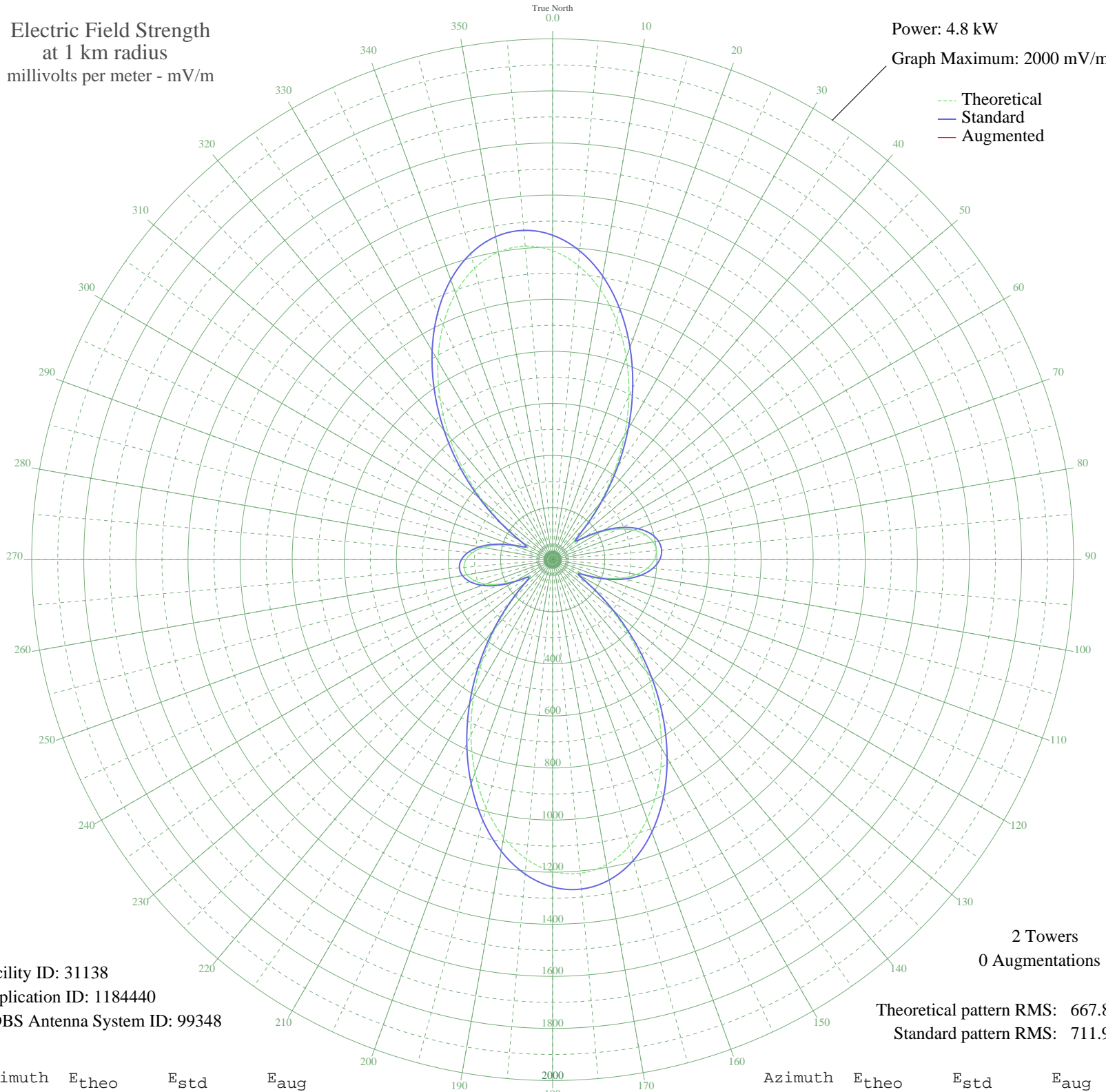
WFIR ROANOKE, VA BP-20040112ABG 960 kHz

Nighttime

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

Power: 4.8 kW
Graph Maximum: 2000 mV/m

--- Theoretical
— Standard
— Augmented



Facility ID: 31138
Application ID: 1184440
CDBS Antenna System ID: 99348

2 Towers
0 Augmentations

Theoretical pattern RMS: 667.87
Standard pattern RMS: 711.91

Azimuth	E _{theo}	E _{std}	E _{aug}
0	1186.39	1245.92	
5	1133.49	1190.39	
10	1052.82	1105.70	
15	948.67	996.37	
20	826.43	868.06	
25	692.12	727.09	
30	552.03	580.09	
35	412.52	433.76	
40	280.49	295.41	
45	166.79	176.63	
50	105.47	113.11	
55	140.95	149.78	
60	211.51	223.27	
65	277.55	292.34	
70	330.82	348.12	
75	369.19	388.33	
80	392.06	412.31	
85	399.28	419.87	
90	390.81	410.99	
95	366.69	385.71	
100	327.09	344.21	
105	272.69	287.25	
110	205.82	217.34	
115	135.84	144.47	
120	106.77	114.45	
125	174.71	184.89	
130	290.58	305.97	
135	423.51	445.28	
140	563.30	591.92	
145	703.16	738.68	
150	836.74	878.87	
155	957.74	1005.90	
160	1060.20	1113.45	
165	1138.80	1195.96	
170	1189.33	1249.00	
175	1209.06	1269.72	

Azimuth	E _{theo}	E _{std}	E _{aug}
180	1196.99	1257.05	
185	1153.91	1211.83	
190	1082.37	1136.73	
195	986.40	1035.98	
200	871.17	915.01	
205	742.53	780.00	
210	606.68	637.43	
215	469.77	493.80	
220	338.03	355.67	
225	218.94	231.04	
230	128.29	136.66	
235	109.44	117.19	
240	160.21	169.79	
245	221.44	233.65	
250	273.37	287.96	
255	311.42	327.80	
260	334.27	351.73	
265	341.49	359.30	
270	333.01	350.42	
275	308.93	325.19	
280	269.70	284.11	
285	216.78	228.78	
290	155.28	164.65	
295	107.47	115.16	
300	133.68	142.24	
305	227.75	240.24	
310	348.22	366.35	
315	480.62	505.17	
320	617.67	648.96	
325	753.17	791.17	
330	880.96	925.29	
335	994.87	1044.86	
340	1089.06	1143.74	
345	1158.45	1216.59	
350	1199.12	1259.28	
355	1208.65	1269.29	

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.

03 Jul 2009

Prepared by Audio Division, Media Bureau
Federal Communications Commission