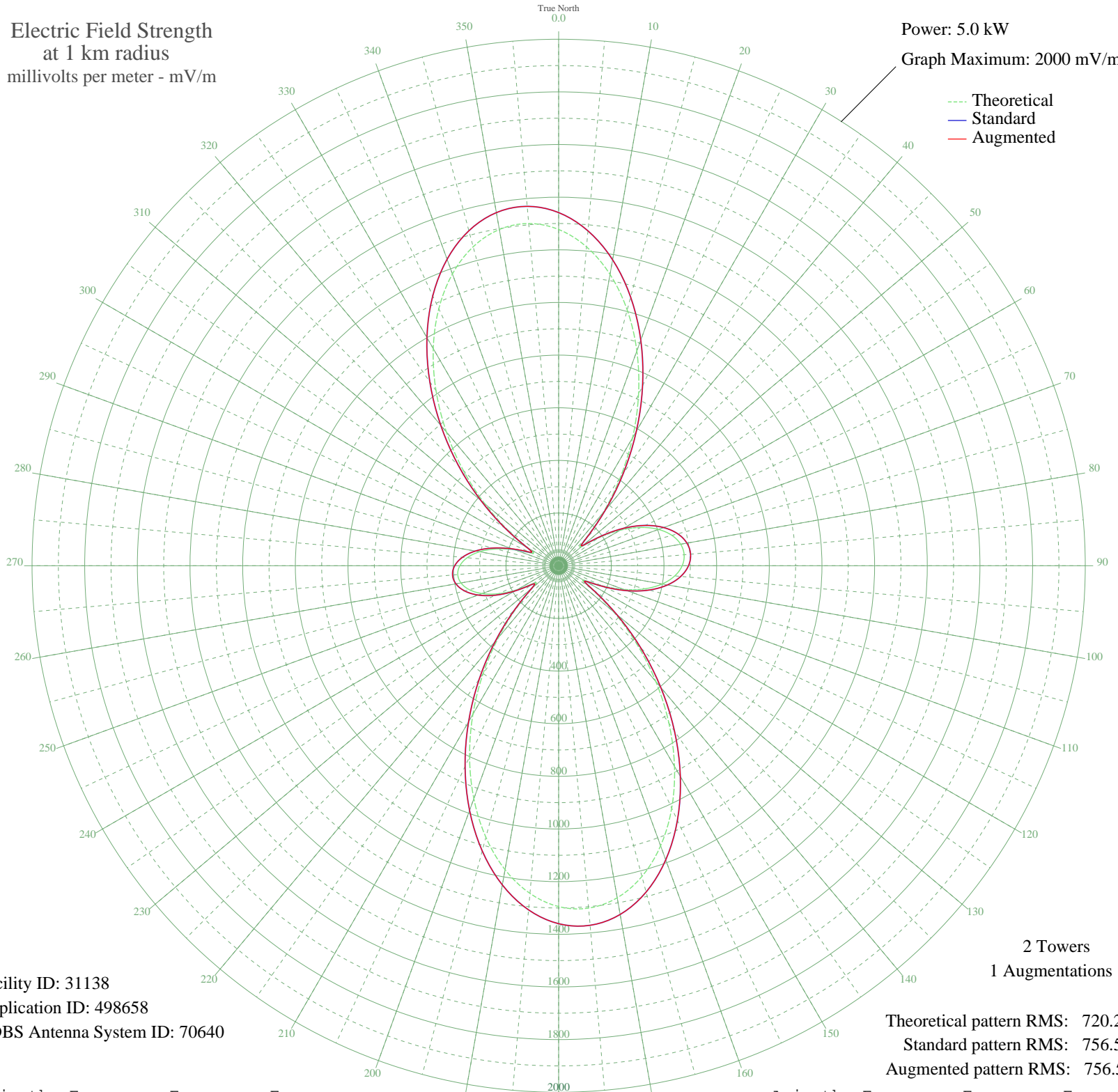


# WFIR ROANOKE, VA BL-20000516AEJ 960 kHz

Nighttime

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

Power: 5.0 kW  
Graph Maximum: 2000 mV/m



Facility ID: 31138  
Application ID: 498658  
CDBS Antenna System ID: 70640

Theoretical pattern RMS: 720.20  
Standard pattern RMS: 756.59  
Augmented pattern RMS: 756.59

Azimuth	Etheo	Estd	Eaug
0	1277.42	1341.51	1341.51
5	1215.93	1276.96	1276.96
10	1123.77	1180.21	1180.21
15	1005.86	1056.43	1056.43
20	868.29	912.03	912.03
25	717.85	754.13	754.13
30	561.61	590.19	590.19
35	406.77	427.80	427.80
40	261.55	275.70	275.70
45	142.50	151.59	151.59
50	111.62	119.69	119.69
55	183.69	194.41	194.41
60	269.46	283.98	283.98
65	344.24	362.27	362.27
70	403.33	424.19	424.19
75	445.52	468.43	468.43
80	470.56	494.69	494.69
85	478.44	502.95	502.95
90	469.19	493.25	493.25
95	442.77	465.55	465.55
100	399.21	419.88	419.88
105	338.81	356.58	356.58
110	262.89	277.11	277.11
115	176.76	187.18	187.18
120	108.90	116.90	116.90
125	150.12	159.50	159.50
130	272.55	287.21	287.21
135	418.92	440.54	440.54
140	574.16	603.36	603.36
145	730.19	767.09	767.09
150	879.86	924.17	924.17
155	1016.10	1067.18	1067.18
160	1132.17	1189.03	1189.03
165	1222.04	1283.37	1283.37
170	1280.90	1345.16	1345.16
175	1305.58	1371.08	1371.08

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

Azimuth	Etheo	Estd	Eaug
180	1294.86	1359.82	1359.82
185	1249.53	1312.23	1312.23
190	1172.37	1231.22	1231.22
195	1067.84	1121.49	1121.49
200	941.69	989.07	989.07
205	800.47	840.84	840.84
210	651.04	684.02	684.02
215	500.26	525.83	525.83
220	354.99	373.53	373.53
225	223.59	236.03	236.03
230	125.33	133.83	133.83
235	116.35	124.56	124.56
240	180.96	191.56	191.56
245	251.10	264.78	264.78
250	309.20	325.57	325.57
255	351.41	369.78	369.78
260	376.66	396.24	396.24
265	384.64	404.60	404.60
270	375.27	394.79	394.79
275	348.65	366.89	366.89
280	305.11	321.29	321.29
285	245.84	259.28	259.28
290	175.14	185.50	185.50
295	113.05	121.17	123.38
300	130.88	139.56	139.56
305	233.30	246.17	246.17
310	366.24	385.32	385.32
315	512.21	538.37	538.37
320	663.14	696.72	696.72
325	812.16	853.12	853.12
330	952.43	1000.35	1000.35
335	1077.08	1131.20	1131.20
340	1179.62	1238.84	1238.84
345	1254.37	1317.32	1317.32
350	1297.01	1362.08	1362.08
355	1304.91	1370.37	1370.37