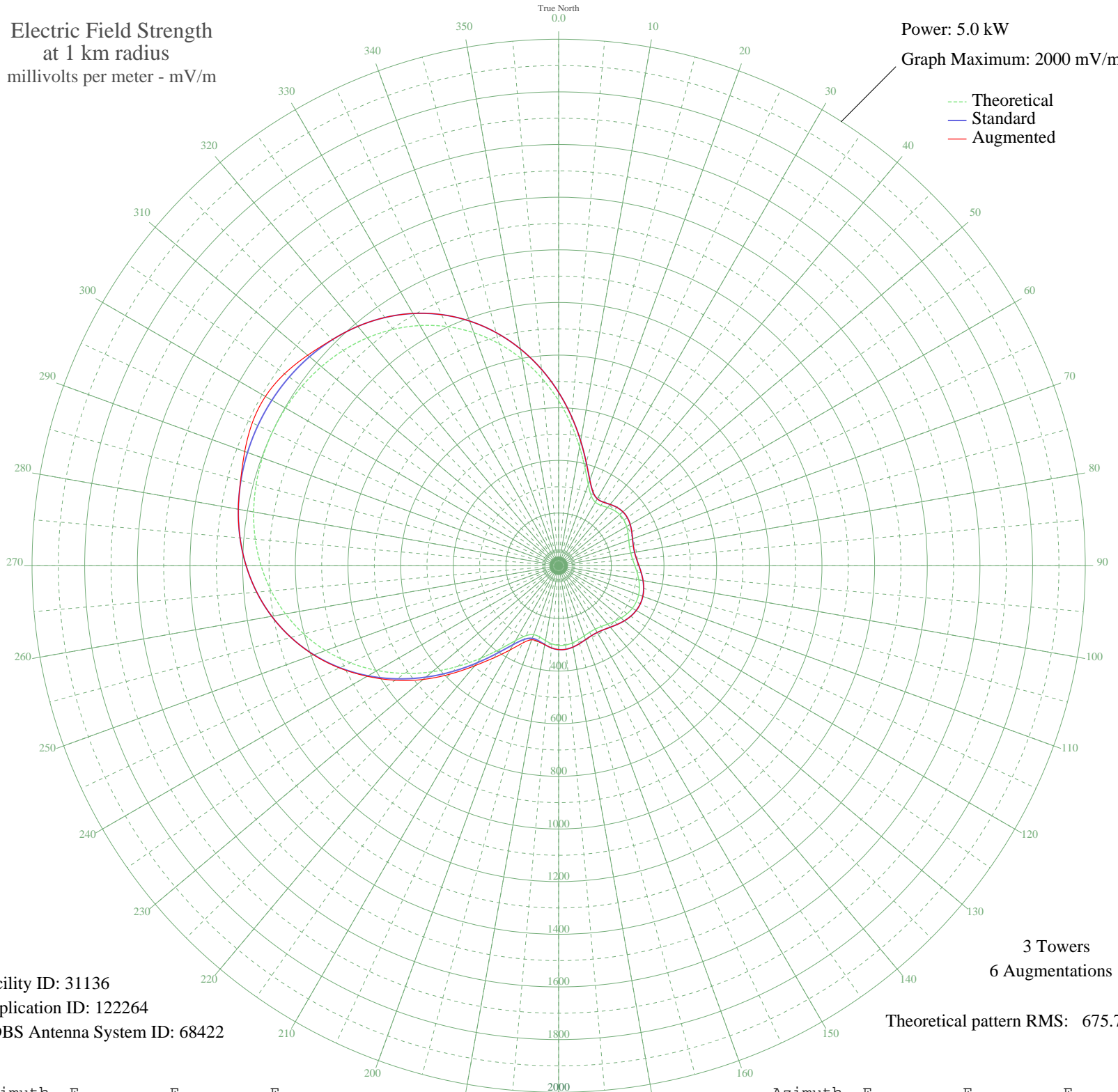


# WFMD FREDERICK, MD BL-19890104AC 930 kHz

Daytime

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

Power: 5.0 kW  
Graph Maximum: 2000 mV/m



Facility ID: 31136  
Application ID: 122264  
CDBS Antenna System ID: 68422

3 Towers  
6 Augmentations  
Theoretical pattern RMS: 675.72

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	626.71	658.47	658.47
5	540.14	567.63	567.63
10	457.89	481.35	481.35
15	385.44	405.40	405.40
20	328.88	346.12	346.32
25	293.12	308.67	308.97
30	278.67	293.55	293.55
35	280.01	294.95	294.95
40	288.67	304.01	304.01
45	297.55	313.31	313.31
50	302.61	318.61	318.61
55	302.52	318.52	318.52
60	297.94	313.72	313.72
65	290.78	306.22	306.22
70	283.56	298.67	298.67
75	278.75	293.63	293.63
80	278.04	292.89	292.89
85	281.90	296.93	296.93
90	289.52	304.90	304.90
95	299.25	315.08	315.08
100	309.18	325.48	325.48
105	317.58	334.29	334.29
110	323.16	340.13	340.13
115	325.10	342.17	342.17
120	323.16	340.13	340.13
125	317.58	334.29	334.29
130	309.18	325.48	325.48
135	299.25	315.08	315.08
140	289.52	304.90	304.90
145	281.90	296.93	296.93
150	278.04	292.89	292.89
155	278.75	293.63	293.63
160	283.56	298.67	298.67
165	290.78	306.22	306.22
170	297.94	313.72	313.72
175	302.52	318.52	318.52

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	302.61	318.61	318.61
185	297.55	313.31	313.31
190	288.67	304.01	304.57
195	280.01	294.95	298.74
200	278.67	293.55	299.48
205	293.12	308.67	324.19
210	328.88	346.12	369.37
215	385.44	405.40	426.29
220	457.89	481.35	496.23
225	540.14	567.63	581.93
230	626.71	658.47	672.17
235	713.15	749.18	758.50
240	796.02	836.15	839.98
245	872.81	916.75	918.88
250	941.84	989.21	990.34
255	1002.18	1052.55	1052.69
260	1053.51	1106.43	1106.43
265	1096.00	1151.04	1151.04
270	1130.15	1186.89	1186.89
275	1156.64	1214.70	1214.70
280	1176.24	1235.28	1235.28
285	1189.66	1249.36	1250.54
290	1197.46	1257.55	1268.74
295	1200.02	1260.24	1283.89
300	1197.46	1257.55	1285.98
305	1189.66	1249.36	1271.04
310	1176.24	1235.28	1244.06
315	1156.64	1214.70	1215.05
320	1130.15	1186.89	1186.89
325	1096.00	1151.04	1151.04
330	1053.51	1106.43	1106.43
335	1002.18	1052.55	1052.55
340	941.84	989.21	989.20
345	872.81	916.75	916.75
350	796.02	836.15	836.15
355	713.15	749.18	749.18

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.

26 Jun 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission