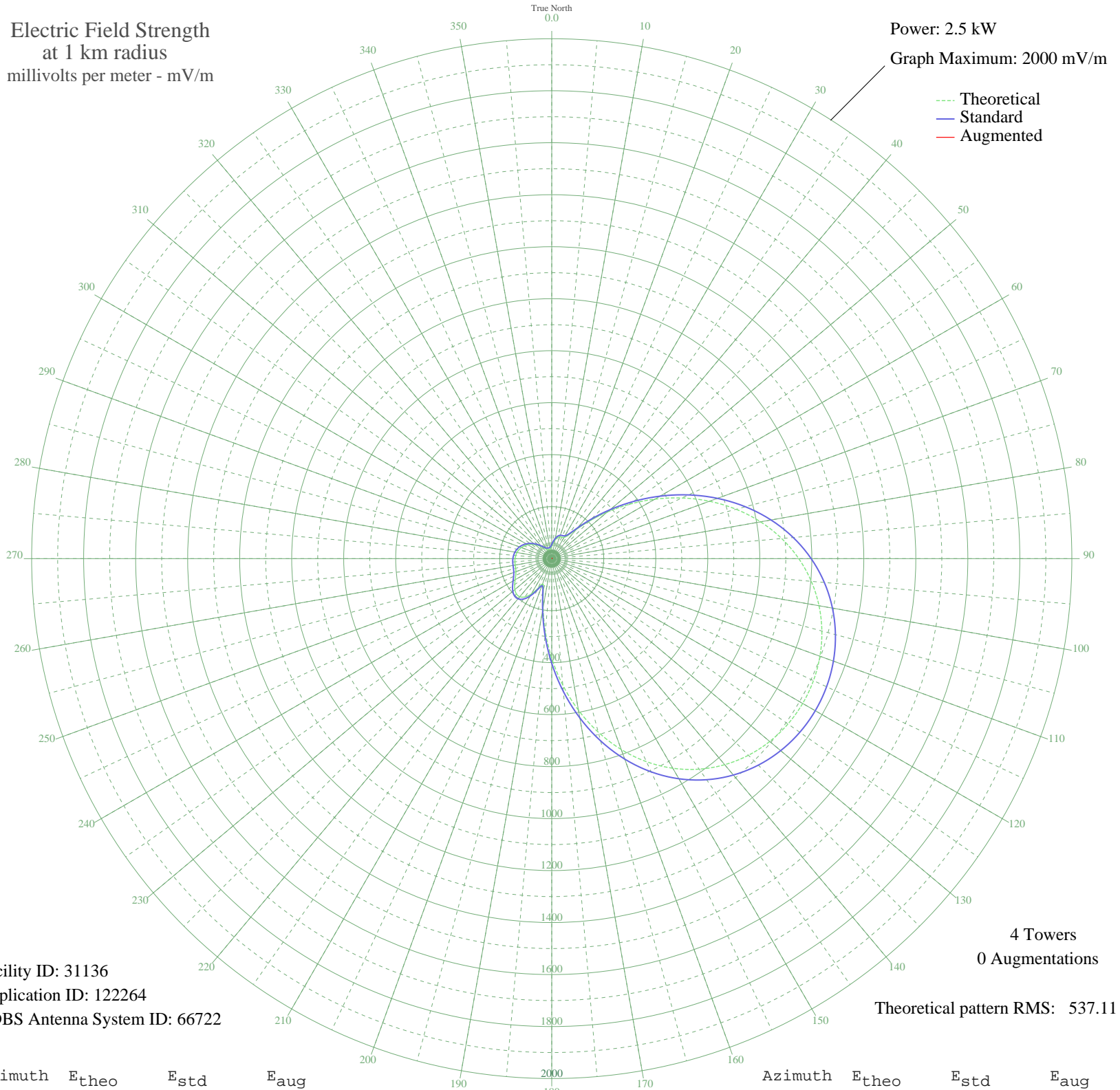


WFMD FREDERICK, MD BL-19890104AC 930 kHz

Nighttime

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

Power: 2.5 kW
Graph Maximum: 2000 mV/m



Facility ID: 31136
Application ID: 122264
CDBS Antenna System ID: 66722

Theoretical pattern RMS: 537.11

Azimuth	E _{theo}	E _{std}	E _{aug}
0	48.80	54.92	
5	60.53	66.56	
10	72.98	79.14	
15	83.23	89.60	
20	89.23	95.76	
25	91.27	97.85	
30	94.36	101.03	
35	109.42	116.58	
40	145.91	154.48	
45	203.91	215.02	
50	278.55	293.14	
55	364.60	383.34	
60	457.27	480.54	
65	552.20	580.14	
70	645.53	678.09	
75	734.06	771.01	
80	815.32	856.31	
85	887.61	932.20	
90	949.96	997.65	
95	1001.97	1052.25	
100	1043.69	1096.05	
105	1075.42	1129.37	
110	1097.55	1152.60	
115	1110.43	1166.12	
120	1114.23	1170.11	
125	1108.93	1164.54	
130	1094.25	1149.13	
135	1069.71	1123.37	
140	1034.71	1086.62	
145	988.64	1038.26	
150	931.05	977.80	
155	861.83	905.14	
160	781.39	820.70	
165	690.86	725.67	
170	592.21	622.14	
175	488.34	513.14	

Azimuth	E _{theo}	E _{std}	E _{aug}
180	383.14	402.78	
185	281.67	296.41	
190	191.04	201.57	
195	124.14	131.84	
200	103.46	110.42	
205	125.83	133.59	
210	156.81	165.84	
215	179.81	189.84	
220	191.25	201.78	
225	192.08	202.65	
230	185.15	195.41	
235	174.07	183.84	
240	162.40	171.67	
245	152.87	161.73	
250	146.75	155.35	
255	143.75	152.23	
260	142.66	151.09	
265	142.10	150.51	
270	141.06	149.43	
275	138.98	147.26	
280	135.57	143.72	
285	130.72	138.67	
290	124.31	132.02	
295	116.27	123.67	
300	106.57	113.63	
305	95.37	102.08	
310	83.08	89.45	
315	70.41	76.53	
320	58.46	64.49	
325	48.54	54.67	
330	41.77	48.11	
335	38.23	44.75	
340	36.75	43.37	
345	36.17	42.82	
350	36.80	43.41	
355	40.54	46.94	

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