

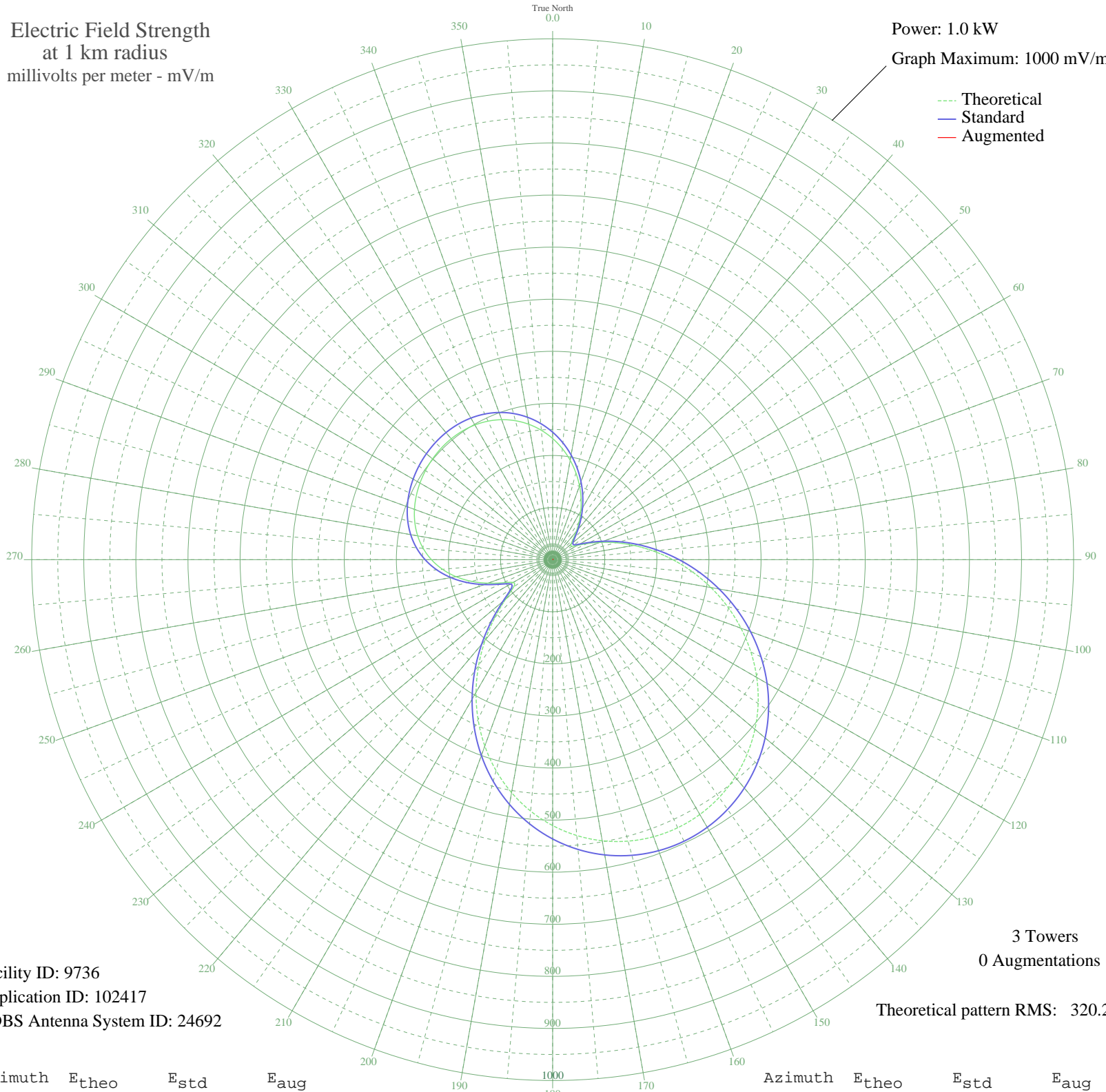
WNNZ WESTFIELD, MA BL-19870622AF 640 kHz

Nighttime

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

Power: 1.0 kW  
Graph Maximum: 1000 mV/m

--- Theoretical  
— Standard  
— Augmented



Facility ID: 9736  
Application ID: 102417  
CDBS Antenna System ID: 24692

3 Towers  
0 Augmentations  
Theoretical pattern RMS: 320.20

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	232.58	244.74	
5	213.91	225.18	
10	193.71	204.03	
15	172.47	181.81	
20	150.73	159.08	
25	129.06	136.47	
30	108.05	114.59	
35	88.28	94.08	
40	70.40	75.65	
45	55.47	60.42	
50	45.73	50.64	
55	44.92	49.84	
60	54.77	59.72	
65	72.98	78.30	
70	97.06	103.17	
75	125.65	132.91	
80	157.95	166.63	
85	193.22	203.52	
90	230.68	242.75	
95	269.46	283.39	
100	308.65	324.48	
105	347.35	365.07	
110	384.70	404.26	
115	419.94	441.23	
120	452.39	475.28	
125	481.50	505.83	
130	506.83	532.41	
135	528.05	554.68	
140	544.91	572.38	
145	557.25	585.33	
150	564.94	593.41	
155	567.91	596.53	
160	566.10	594.62	
165	559.47	587.66	
170	547.98	575.61	
175	531.65	558.46	

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	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	510.50	536.26	
185	484.61	509.10	
190	454.16	477.14	
195	419.41	440.67	
200	380.74	400.11	
205	338.72	356.02	
210	294.08	309.20	
215	247.83	260.72	
220	201.36	212.04	
225	156.77	165.39	
230	117.74	124.67	
235	91.46	97.37	
240	87.53	93.30	
245	104.94	111.35	
250	132.12	139.65	
255	161.05	169.86	
260	188.23	198.30	
265	212.26	223.46	
270	232.68	244.85	
275	249.51	262.48	
280	263.08	276.70	
285	273.83	287.97	
290	282.29	296.84	
295	288.92	303.79	
300	294.11	309.23	
305	298.09	313.40	
310	300.93	316.39	
315	302.60	318.14	
320	302.92	318.47	
325	301.66	317.15	
330	298.57	313.91	
335	293.41	308.50	
340	285.99	300.72	
345	276.18	290.44	
350	263.95	277.61	
355	249.36	262.32	