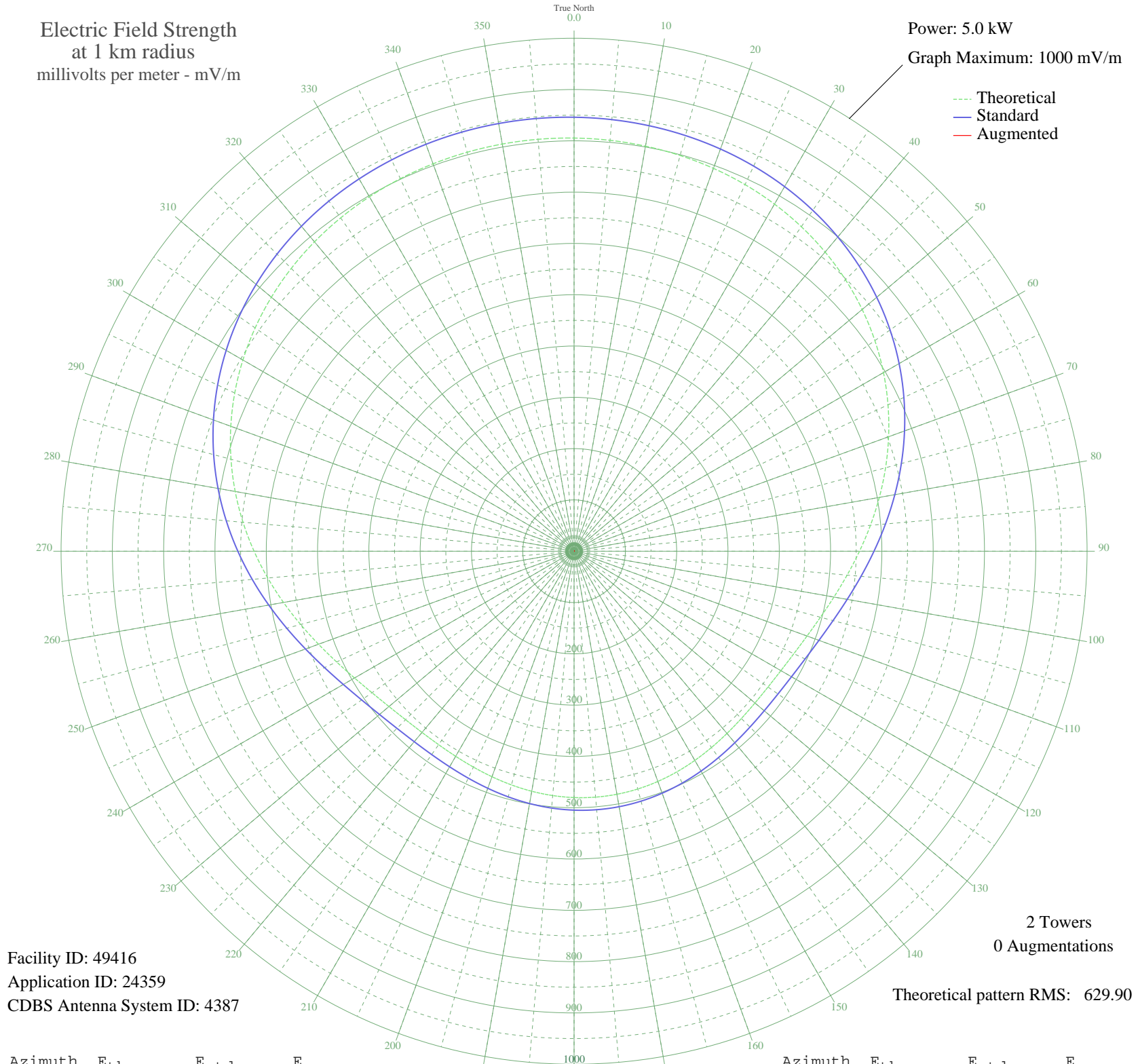


WCAP LOWELL, MA BL-19801014AT 980 kHz

Daytime

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

Power: 5.0 kW
Graph Maximum: 1000 mV/m



--- Theoretical
— Standard
— Augmented

Facility ID: 49416
Application ID: 24359
CDBS Antenna System ID: 4387

2 Towers
0 Augmentations

Theoretical pattern RMS: 629.90

Azimuth	E _{theo}	E _{std}	E _{aug}
0	805.40	846.00	
5	804.03	844.56	
10	801.81	842.23	
15	798.62	838.88	
20	794.27	834.31	
25	788.57	828.33	
30	781.32	820.72	
35	772.30	811.25	
40	761.35	799.76	
45	748.32	786.08	
50	733.14	770.15	
55	715.81	751.97	
60	696.44	731.64	
65	675.22	709.37	
70	652.48	685.50	
75	628.64	660.49	
80	604.24	634.89	
85	579.92	609.37	
90	556.37	584.66	
95	534.30	561.50	
100	514.39	540.62	
105	497.23	522.62	
110	483.25	507.96	
115	472.69	496.88	
120	465.53	489.37	
125	461.54	485.18	
130	460.28	483.86	
135	461.19	484.82	
140	463.66	487.41	
145	467.06	490.98	
150	470.82	494.92	
155	474.46	498.73	
160	477.56	501.99	
165	479.83	504.37	
170	481.08	505.68	
175	481.20	505.80	

Azimuth	E _{theo}	E _{std}	E _{aug}
180	480.17	504.73	
185	478.09	502.54	
190	475.13	499.44	
195	471.57	495.71	
200	467.80	491.75	
205	464.28	488.06	
210	461.58	485.23	
215	460.31	483.89	
220	461.08	484.71	
225	464.49	488.28	
230	470.99	495.10	
235	480.87	505.45	
240	494.17	519.41	
245	510.72	536.77	
250	530.12	557.12	
255	551.81	579.88	
260	575.13	604.34	
265	599.35	629.76	
270	623.78	655.39	
275	647.78	680.57	
280	670.78	704.71	
285	692.33	727.33	
290	712.10	748.07	
295	729.84	766.69	
300	745.45	783.08	
305	758.91	797.20	
310	770.27	809.12	
315	779.66	818.98	
320	787.25	826.95	
325	793.24	833.24	
330	797.85	838.07	
335	801.26	841.65	
340	803.66	844.17	
345	805.19	845.78	
350	805.96	846.59	
355	806.03	846.66	

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