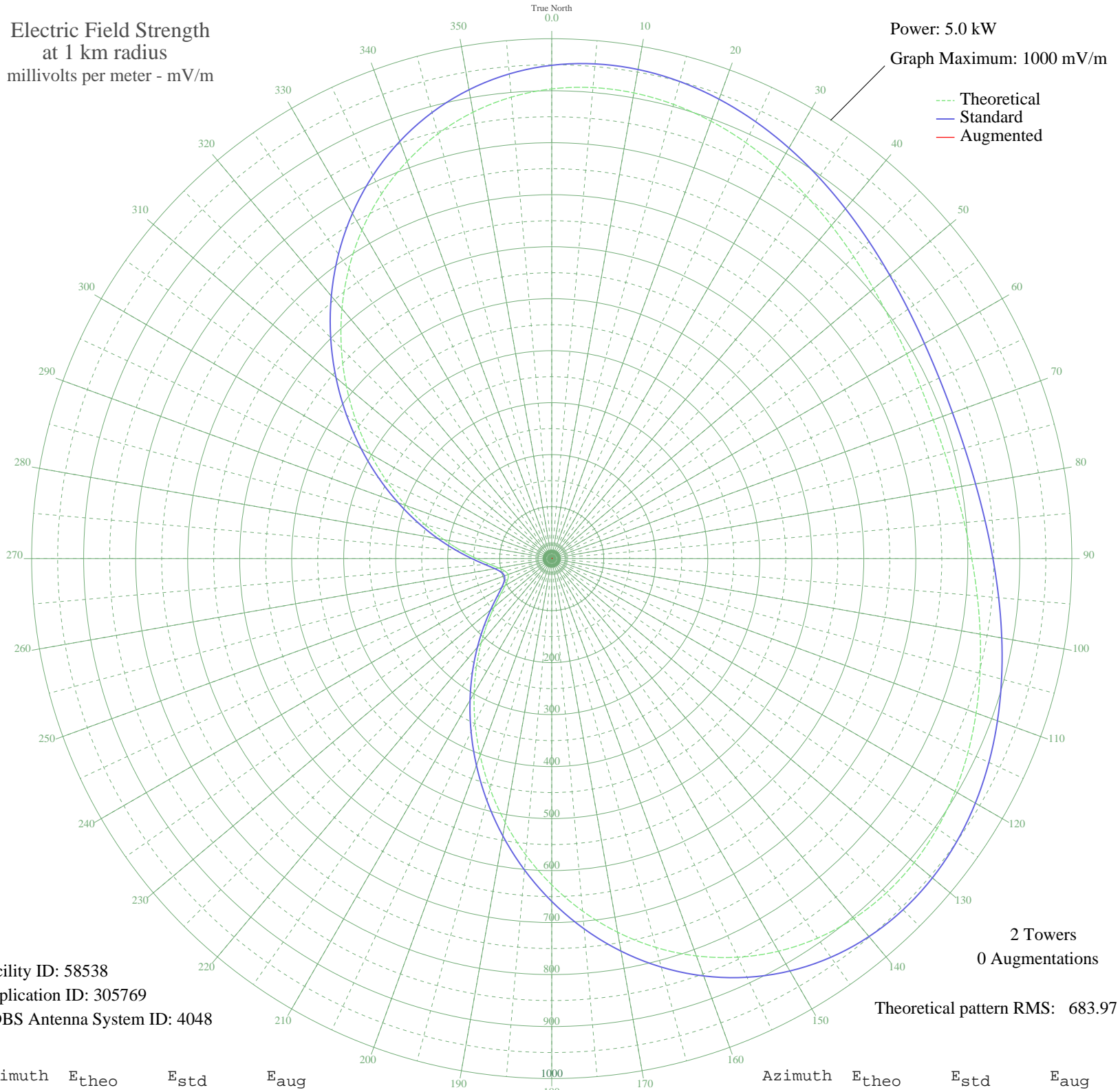


WZAN PORTLAND, ME BL-- 970 kHz

Nighttime

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

Power: 5.0 kW
Graph Maximum: 1000 mV/m



Facility ID: 58538
Application ID: 305769
CDBS Antenna System ID: 4048

Theoretical pattern RMS: 683.97

Azimuth	E _{theo}	E _{std}	E _{aug}
0	903.50	948.96	
5	909.49	955.25	
10	909.62	955.39	
15	904.63	950.15	
20	895.42	940.48	
25	882.96	927.40	
30	868.30	912.01	
35	852.47	895.40	
40	836.47	878.61	
45	821.24	862.62	
50	807.59	848.30	
55	796.23	836.37	
60	787.71	827.42	
65	782.43	821.89	
70	780.64	820.01	
75	782.43	821.89	
80	787.71	827.42	
85	796.23	836.37	
90	807.59	848.30	
95	821.24	862.62	
100	836.47	878.61	
105	852.47	895.40	
110	868.30	912.01	
115	882.96	927.40	
120	895.42	940.48	
125	904.63	950.15	
130	909.62	955.39	
135	909.49	955.25	
140	903.50	948.96	
145	891.08	935.93	
150	871.90	915.80	
155	845.88	888.49	
160	813.19	854.17	
165	774.24	813.29	
170	729.71	766.56	
175	680.46	714.87	

Azimuth	E _{theo}	E _{std}	E _{aug}
180	627.52	659.32	
185	572.05	601.11	
190	515.24	541.51	
195	458.33	481.82	
200	402.50	423.27	
205	348.85	367.05	
210	298.41	314.21	
215	252.06	265.70	
220	210.54	222.31	
225	174.48	184.71	
230	144.38	153.41	
235	120.61	128.80	
240	103.45	111.13	
245	93.08	100.52	
250	89.61	96.98	
255	93.08	100.52	
260	103.45	111.13	
265	120.61	128.80	
270	144.38	153.41	
275	174.48	184.71	
280	210.54	222.31	
285	252.06	265.70	
290	298.41	314.21	
295	348.85	367.05	
300	402.50	423.27	
305	458.33	481.82	
310	515.24	541.51	
315	572.05	601.11	
320	627.52	659.32	
325	680.46	714.87	
330	729.71	766.56	
335	774.24	813.29	
340	813.19	854.17	
345	845.88	888.49	
350	871.90	915.80	
355	891.08	935.93	

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