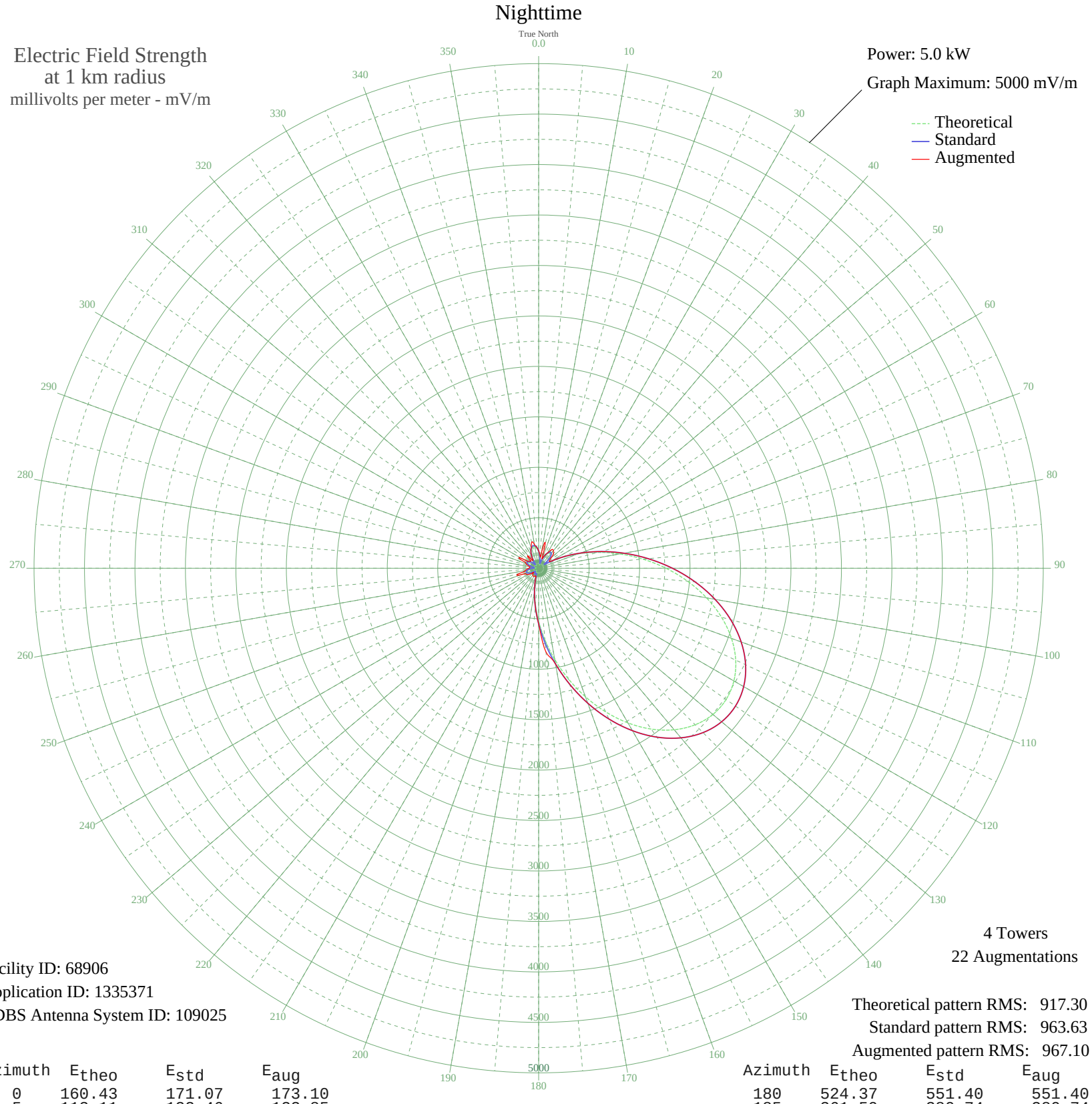
WWRL NEW YORK, NY BML-20090922AFC 1600 kHz

Nighttime

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



Power: 5.0 kW

Graph Maximum: 5000 mV/m

Theoretical
Standard
Augmented

4 Towers
22 Augmentations

Facility ID: 68906
Application ID: 1335371
CDBS Antenna System ID: 109025

Theoretical pattern RMS: 917.30
Standard pattern RMS: 963.63
Augmented pattern RMS: 967.10

Azimuth	E_{theo}	E_{std}	E_{aug}
0	160.43	171.07	173.10
5	113.11	122.46	133.85
10	60.13	69.84	135.39
15	32.44	45.29	251.28
20	75.13	84.34	102.56
25	124.03	133.61	137.52
30	162.07	172.77	172.77
35	183.17	194.63	224.65
40	182.93	194.38	226.41
45	158.26	168.83	209.80
50	108.67	117.94	160.93
55	53.30	63.43	133.60
60	114.32	123.69	133.80
65	249.79	263.98	263.98
70	416.66	438.51	438.51
75	607.54	638.62	638.62
80	816.57	857.91	857.91
85	1037.13	1089.39	1089.39
90	1261.71	1325.13	1325.13
95	1482.11	1556.50	1556.50
100	1689.77	1774.51	1774.51
105	1876.19	1970.23	1970.23
110	2033.42	2135.30	2135.30
115	2154.46	2262.38	2262.38
120	2233.72	2345.60	2345.60
125	2267.41	2380.97	2380.97
130	2253.82	2366.69	2366.69
135	2193.44	2303.30	2303.30
140	2089.05	2193.71	2193.71
145	1945.58	2043.07	2043.07
150	1769.78	1858.51	1858.51
155	1569.84	1648.61	1648.61
160	1354.86	1422.92	1422.92
165	1134.20	1191.28	1191.28
170	916.95	963.26	963.26
175	711.34	747.51	833.50

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.

15 Nov 2016

Prepared by Audio Division, Media Bureau
Federal Communications Commission

Azimuth	E_{theo}	E_{std}	E_{aug}
180	524.37	551.40	551.40
185	361.50	380.74	380.74
190	226.64	239.84	239.84
195	122.82	132.37	132.37
200	55.90	65.85	80.27
205	43.13	54.24	85.23
210	55.62	65.59	94.54
215	57.35	67.21	94.90
220	46.12	56.88	89.31
225	29.75	43.20	84.13
230	31.86	44.83	63.73
235	56.56	66.46	94.44
240	83.61	92.73	125.50
245	105.06	114.28	138.14
250	117.01	126.44	190.94
255	117.36	126.79	191.04
260	105.53	114.76	134.36
265	82.64	91.76	116.52
270	51.99	62.21	97.19
275	25.32	39.97	87.13
280	41.05	52.42	93.57
285	74.00	83.24	113.71
290	101.58	110.75	133.66
295	117.86	127.30	172.85
300	119.80	129.28	195.97
305	106.40	115.64	121.46
310	79.07	88.22	109.88
315	44.18	55.16	126.57
320	37.48	49.40	143.80
325	79.98	89.13	102.18
330	128.72	138.41	139.26
335	171.32	182.34	182.34
340	202.06	214.26	214.26
345	217.30	230.11	267.06
350	215.16	227.88	238.44
355	195.62	207.56	207.56