WMAY SPRINGFIELD, IL BL-- 970 kHz

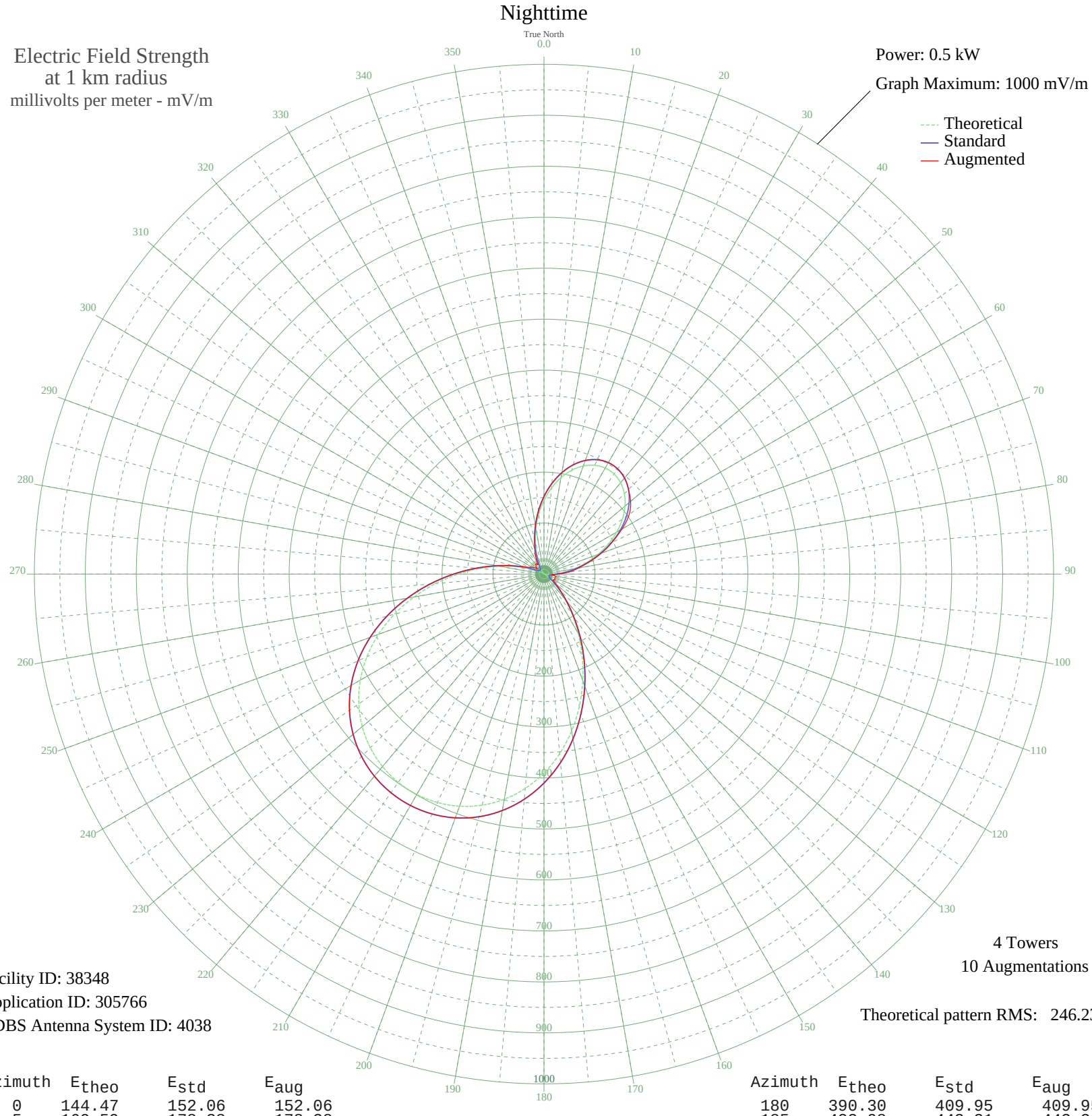
Nighttime

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

Power: 0.5 kW

Graph Maximum: 1000 mV/m

Theoretical
Standard
Augmented



4 Towers
10 Augmentations

Facility ID: 38348
Application ID: 305766
CDBS Antenna System ID: 4038

Theoretical pattern RMS: 246.23

Azimuth	E_{theo}	E_{std}	E_{aug}
0	144.47	152.06	152.06
5	169.59	178.38	178.38
10	192.10	201.98	201.98
15	211.04	221.84	221.84
20	225.68	237.19	237.19
25	235.51	247.51	247.51
30	240.24	252.47	252.47
35	239.71	251.91	251.91
40	233.95	245.87	245.87
45	223.12	234.51	234.64
50	207.57	218.21	221.88
55	187.86	197.53	204.08
60	164.74	173.30	176.79
65	139.23	146.57	146.57
70	112.56	118.66	118.66
75	86.13	91.04	91.04
80	61.40	65.31	68.86
85	39.73	43.02	50.41
90	22.24	25.60	27.44
95	9.56	14.53	15.13
100	1.72	10.65	22.73
105	1.99	10.71	23.68
110	2.92	10.94	22.53
115	3.03	10.97	23.59
120	4.57	11.54	23.40
125	9.79	14.69	21.65
130	20.62	24.06	31.78
135	38.38	41.64	45.92
140	63.60	67.60	68.58
145	95.97	101.31	101.31
150	134.40	141.51	141.51
155	177.26	186.42	186.42
160	222.55	233.91	233.91
165	268.23	281.83	281.83
170	312.39	328.18	328.18
175	353.48	371.30	371.30

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 2005

Prepared by Audio Division, Media Bureau
Federal Communications Commission

Azimuth	E_{theo}	E_{std}	E_{aug}
180	390.30	409.95	409.95
185	422.08	443.31	443.31
190	448.43	470.97	470.97
195	469.22	492.79	492.79
200	484.50	508.83	508.83
205	494.39	519.22	519.22
210	499.04	524.10	524.10
215	498.53	523.56	523.56
220	492.84	517.58	517.58
225	481.88	506.08	506.08
230	465.51	488.90	488.90
235	443.61	465.91	465.91
240	416.15	437.09	437.09
245	383.32	402.62	402.62
250	345.57	363.00	363.00
255	303.76	319.12	319.12
260	259.15	272.31	272.31
265	213.39	224.31	224.31
270	168.43	177.16	177.16
275	126.30	133.03	133.03
280	88.96	94.00	94.00
285	57.96	61.76	62.60
290	34.23	37.45	41.77
295	17.93	21.55	31.58
300	8.35	13.68	26.83
305	4.04	11.32	21.70
310	2.97	10.95	17.28
315	2.87	10.92	22.53
320	1.52	10.62	25.19
325	2.92	10.94	23.18
330	11.70	16.16	26.64
335	25.37	28.63	39.29
340	43.76	47.13	53.07
345	66.14	70.23	71.70
350	91.33	96.47	96.47
355	117.92	124.27	124.27