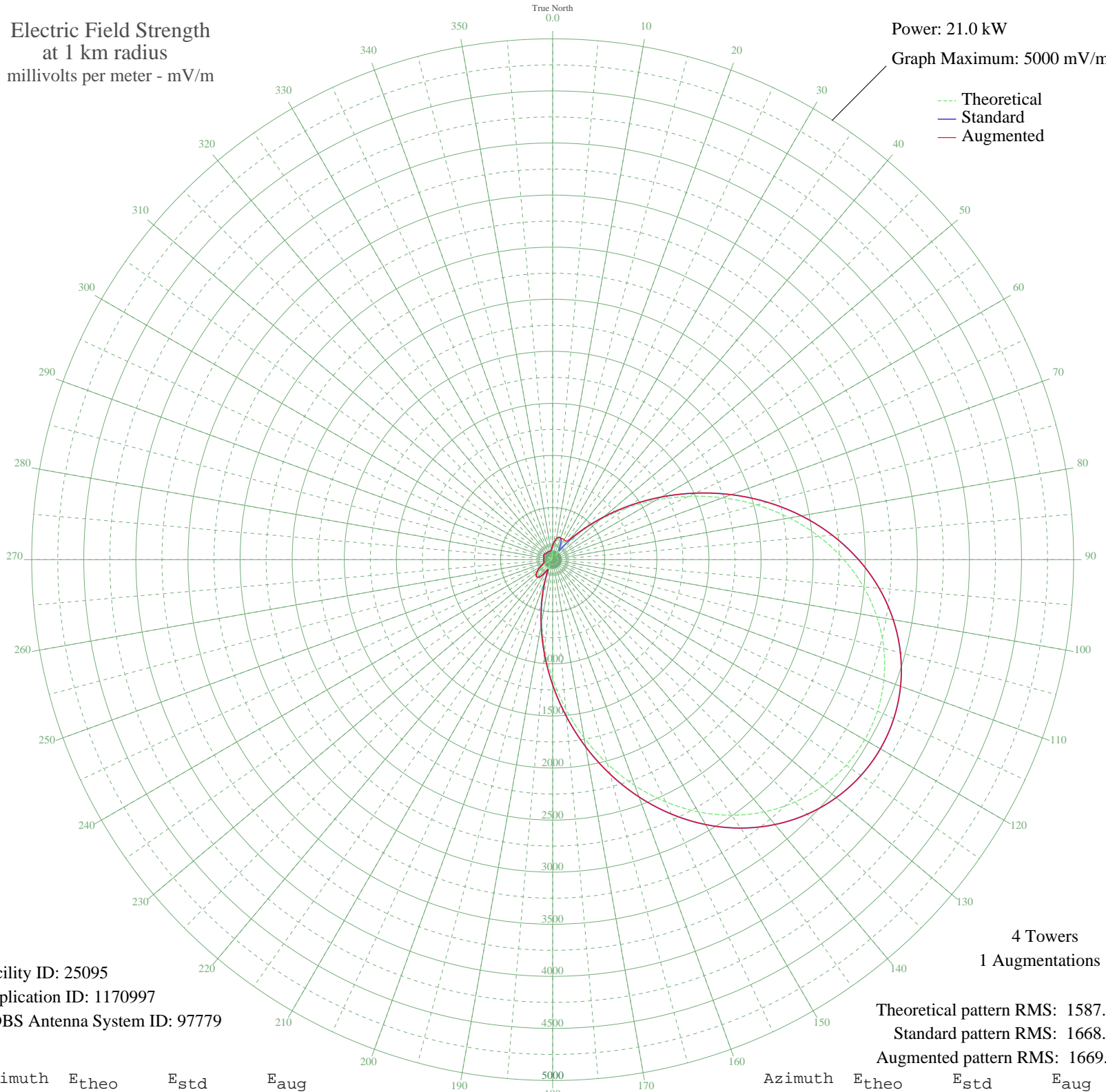


# WPEN PHILADELPHIA, PA BL-20070119AIO 950 kHz

Nighttime

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

Power: 21.0 kW  
Graph Maximum: 5000 mV/m



Facility ID: 25095  
Application ID: 1170997  
CDBS Antenna System ID: 97779

Theoretical pattern RMS: 1587.35  
Standard pattern RMS: 1668.85  
Augmented pattern RMS: 1669.30

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	102.00	136.31	136.31
5	142.20	171.47	171.47
10	176.10	203.22	203.22
15	196.05	222.45	222.45
20	194.21	220.66	221.56
25	163.69	191.44	221.92
30	102.07	136.37	221.43
35	61.36	106.11	217.56
40	184.44	211.22	261.70
45	372.39	400.00	407.47
50	600.30	635.93	635.93
55	859.67	906.58	906.58
60	1141.77	1201.82	1201.82
65	1437.09	1511.30	1511.30
70	1735.87	1824.62	1824.62
75	2028.80	2131.91	2131.91
80	2307.48	2424.33	2424.33
85	2564.85	2694.41	2694.41
90	2795.30	2936.28	2936.28
95	2994.69	3145.56	3145.56
100	3160.19	3319.28	3319.28
105	3290.03	3455.56	3455.56
110	3383.20	3553.36	3553.36
115	3439.23	3612.18	3612.18
120	3457.92	3631.80	3631.80
125	3439.23	3612.18	3612.18
130	3383.20	3553.36	3553.36
135	3290.03	3455.56	3455.56
140	3160.19	3319.28	3319.28
145	2994.69	3145.56	3145.56
150	2795.30	2936.28	2936.28
155	2564.85	2694.41	2694.41
160	2307.48	2424.33	2424.33
165	2028.80	2131.91	2131.91
170	1735.87	1824.62	1824.62
175	1437.09	1511.30	1511.30

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	1141.77	1201.82	1201.82
185	859.67	906.58	906.58
190	600.30	635.93	635.93
195	372.39	400.00	400.00
200	184.44	211.22	211.22
205	61.36	106.11	106.11
210	102.07	136.37	136.37
215	163.69	191.44	191.44
220	194.21	220.66	220.66
225	196.05	222.45	222.45
230	176.10	203.22	203.22
235	142.20	171.47	171.47
240	102.00	136.31	136.31
245	62.24	106.68	106.68
250	28.44	89.45	89.45
255	9.28	84.88	84.88
260	17.37	86.27	86.27
265	22.28	87.51	87.51
270	19.50	86.77	86.77
275	12.25	85.30	85.30
280	11.63	85.20	85.20
285	22.33	87.52	87.52
290	33.58	91.39	91.39
295	41.41	94.87	94.87
300	44.19	96.24	96.24
305	41.41	94.87	94.87
310	33.58	91.39	91.39
315	22.33	87.52	87.52
320	11.63	85.20	85.20
325	12.25	85.30	85.30
330	19.50	86.77	86.77
335	22.28	87.51	87.51
340	17.37	86.27	86.27
345	9.28	84.88	84.88
350	28.44	89.45	89.45
355	62.24	106.68	106.68

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.

20 Nov 2009

Prepared by Audio Division, Media Bureau  
Federal Communications Commission