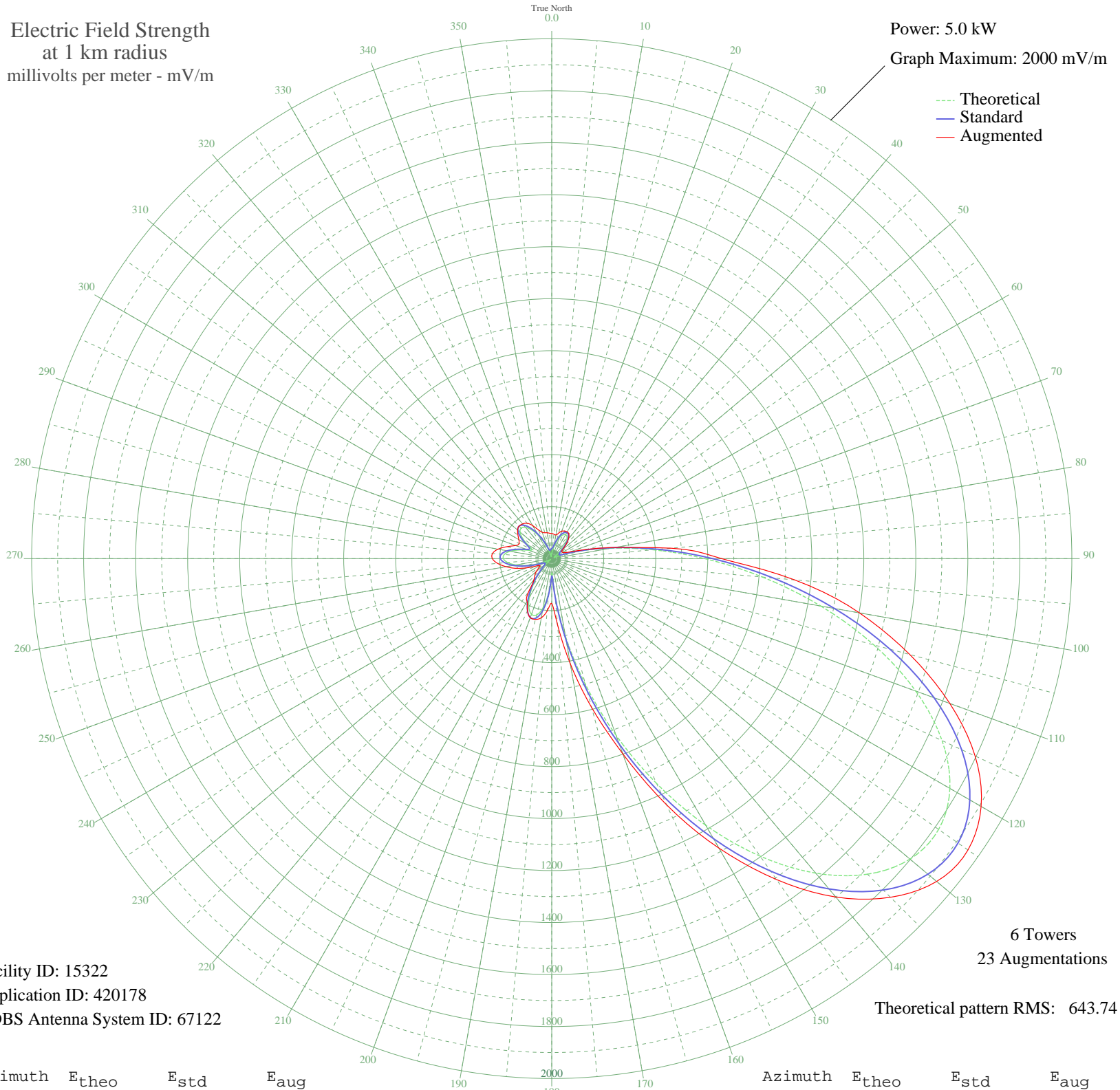


# WHP HARRISBURG, PA BL-19791017AH 580 kHz

Nighttime

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

Power: 5.0 kW  
Graph Maximum: 2000 mV/m



Facility ID: 15322  
Application ID: 420178  
CDBS Antenna System ID: 67122

6 Towers  
23 Augmentations  
Theoretical pattern RMS: 643.74

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
0	21.03	38.12	96.56
5	27.55	42.45	94.19
10	43.77	55.48	92.45
15	64.92	74.92	101.39
20	85.27	94.77	112.26
25	100.27	109.78	116.98
30	106.57	116.13	119.02
35	102.23	111.74	114.86
40	87.18	96.67	100.53
45	63.62	73.68	78.86
50	36.37	49.24	56.18
55	14.44	34.58	46.79
60	11.85	33.47	48.28
65	8.86	32.44	54.64
70	38.32	50.84	75.85
75	112.78	122.43	135.06
80	230.36	243.87	246.96
85	390.75	411.46	460.38
90	588.67	618.88	653.48
95	813.64	854.89	937.24
100	1050.76	1103.74	1201.55
105	1282.30	1346.77	1425.42
110	1489.75	1564.55	1629.03
115	1656.09	1739.18	1796.21
120	1767.76	1856.41	1906.54
125	1816.14	1907.20	1953.97
130	1798.25	1888.42	1931.98
135	1716.79	1802.89	1842.25
140	1579.33	1658.59	1699.20
145	1397.22	1467.41	1507.07
150	1184.13	1243.73	1285.87
155	954.63	1002.84	1044.94
160	722.88	759.66	799.00
165	501.76	527.76	593.12
170	302.37	319.00	410.26
175	135.90	146.04	254.98

Azimuth	E <sub>theo</sub>	E <sub>std</sub>	E <sub>aug</sub>
180	55.80	66.33	172.11
185	129.14	139.11	201.70
190	192.02	204.01	230.96
195	224.11	237.36	241.91
200	227.67	241.06	241.61
205	208.02	220.62	220.99
210	171.92	183.17	189.85
215	126.86	136.78	154.00
220	80.50	90.06	106.95
225	40.02	52.26	92.66
230	11.75	33.44	78.13
235	6.10	31.73	59.50
240	10.00	32.80	53.11
245	28.01	42.79	68.58
250	60.96	71.15	103.54
255	100.86	110.37	143.72
260	139.85	150.09	178.23
265	170.28	181.47	209.11
270	185.92	197.68	228.18
275	183.25	194.91	228.56
280	162.48	173.41	209.59
285	128.66	138.62	177.90
290	94.49	103.96	147.70
295	84.07	93.58	138.74
300	106.38	115.94	146.18
305	137.24	147.42	158.78
310	159.33	170.15	171.09
315	166.26	177.31	177.31
320	157.20	167.96	174.40
325	134.65	144.75	166.03
330	103.16	112.69	146.69
335	68.27	78.13	122.87
340	35.52	48.55	108.16
345	10.70	33.04	103.00
350	11.75	33.44	101.11
355	18.83	36.83	98.18

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