

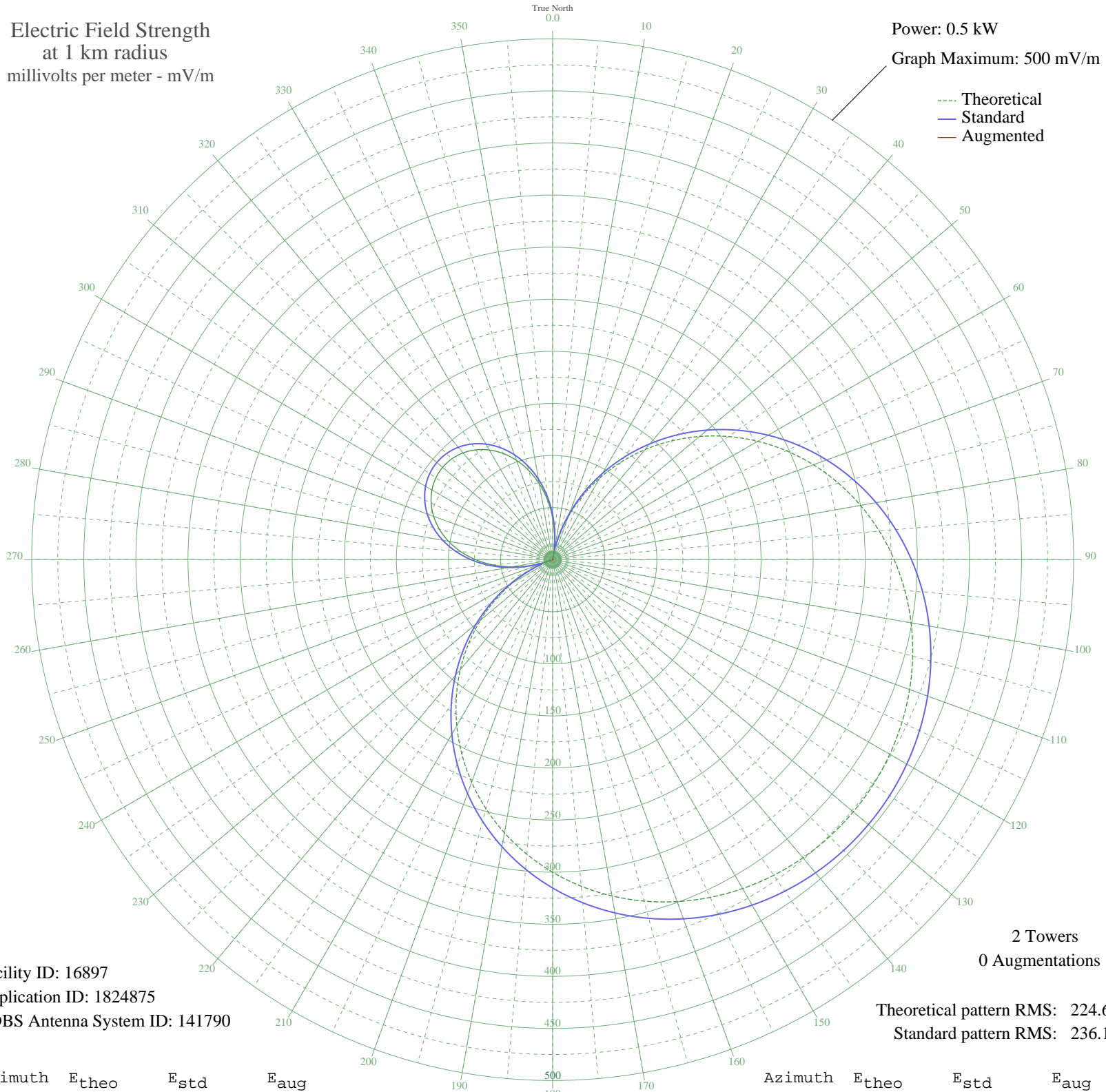
WJOX BIRMINGHAM, AL BL-20210216AAE 690 kHz

Nighttime

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

Power: 0.5 kW
Graph Maximum: 500 mV/m

--- Theoretical
— Standard
— Augmented



Facility ID: 16897
Application ID: 1824875
CDBS Antenna System ID: 141790

2 Towers
0 Augmentations

Theoretical pattern RMS: 224.60
Standard pattern RMS: 236.10

Azimuth	E _{theo}	E _{std}	E _{aug}
0	39.79	43.07	
5	20.52	23.96	
10	0.00	10.50	
15	21.57	24.97	
20	44.01	47.39	
25	67.08	71.22	
30	90.57	95.68	
35	114.24	120.41	
40	137.86	145.13	
45	161.18	169.57	
50	184.00	193.49	
55	206.10	216.66	
60	227.30	238.89	
65	247.42	260.00	
70	266.32	279.83	
75	283.89	298.27	
80	300.03	315.21	
85	314.68	330.58	
90	327.79	344.34	
95	339.34	356.46	
100	349.31	366.92	
105	357.71	375.74	
110	364.56	382.93	
115	369.86	388.49	
120	373.63	392.45	
125	375.88	394.82	
130	376.63	395.61	
135	375.88	394.82	
140	373.63	392.45	
145	369.86	388.49	
150	364.56	382.93	
155	357.71	375.74	
160	349.31	366.92	
165	339.34	356.46	
170	327.79	344.34	
175	314.68	330.58	

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.

6 Oct 2022

Prepared by Audio Division, Media Bureau
Federal Communications Commission

Azimuth	E _{theo}	E _{std}	E _{aug}
180	300.03	315.21	
185	283.89	298.27	
190	266.32	279.83	
195	247.42	260.00	
200	227.30	238.89	
205	206.10	216.66	
210	184.00	193.49	
215	161.18	169.57	
220	137.86	145.13	
225	114.24	120.41	
230	90.57	95.68	
235	67.08	71.22	
240	44.01	47.39	
245	21.57	24.97	
250	0.00	10.50	
255	20.51	23.96	
260	39.79	43.07	
265	57.65	61.43	
270	73.96	78.36	
275	88.59	93.62	
280	101.46	107.05	
285	112.46	118.55	
290	121.55	128.05	
295	128.66	135.50	
300	133.76	140.84	
305	136.83	144.06	
310	137.86	145.13	
315	136.83	144.06	
320	133.76	140.84	
325	128.66	135.50	
330	121.55	128.05	
335	112.46	118.55	
340	101.46	107.05	
345	88.59	93.62	
350	73.96	78.36	
355	57.65	61.43	