

FCC PREDICTED 60 DBU CONTOURS

FM TRANSLATOR STATION W276BH
MEMPHIS, TENNESSEE
CH 276D 0.055 KW (ND)

du Treil, Lundin & Rackley, Inc. Sarasota, Florida 34237

FM Contour Study

du Treil, Lundin, & Rackley, Inc., Sarasota, Florida



Channel: 276 **Coordinates:** 034-59-34 089-45-14 (NAD 27) **ERP:** 0.25 kW **Max. HAAT:** 57 m **Considering Only Interference Caused**

Comment: Proposed W276BH

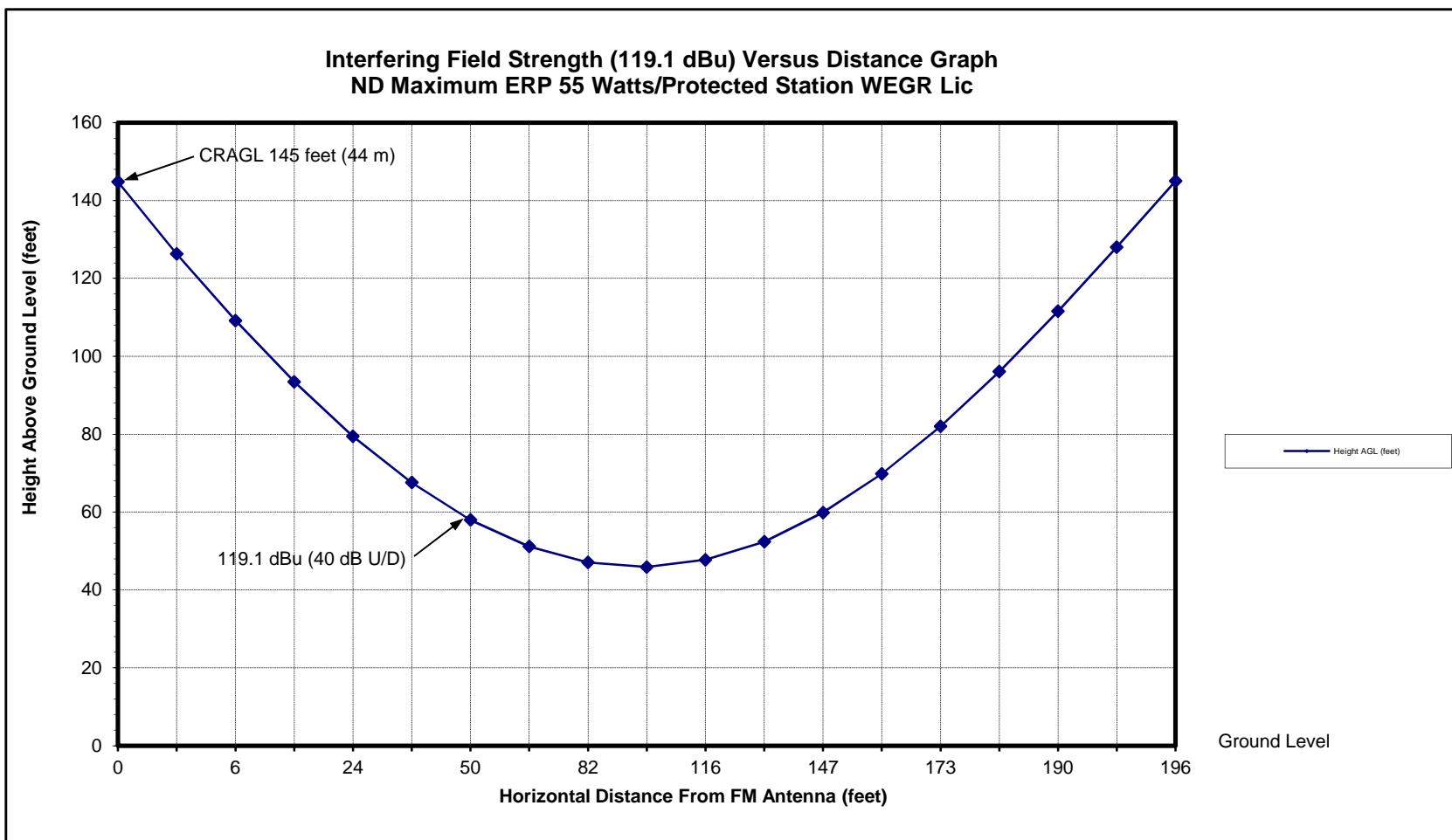
Callsign	Chan.	Service	Status	Freq.	City	State	Co.	Rec.	Latitude	Dist. (km)	Sep. (km)	Spac. (km)
Facility ID	ARN			Class	DA	73.215	ERP (kW)	HAAT (m)	Longitude	Bear. (deg)	Comment	
WEGR	274	FM	LIC	102.7	ARLINGTON	TN	US	C	35-16-33	31.47	74.03	-42.56
58397	BLH	20061114ACK	C1	N	N		100	287	089-46-38	356.15	SHORT	Note 1
WEGR 60.0 dBu desired distance: 73.1 km				Proposed 100.0 dBu undesired distance: 1.0 km								
W276BH	276	FX	CP	103.1	MEMPHIS	TN	US	C	35-09-16	18.99	56.97	-37.98
149184	BPFT	20111222AXO	D	C	N		0.25	313.8	089-49-20	340.94	SHORT	Note 2
W276BH 60.0 dBu desired distance: 23.8 km				Proposed 40.0 dBu undesired distance: 33.2 km								
W276BH	276	FX	LIC	103.1	BYHALIA	MS	US	C	34-55-12	11.24	40.31	-29.07
149184	BLFT	20111012ABU	D	N	N		0.25	-23.4	089-40-06	136.04	SHORT	Note 3
W276BH 60.0 dBu desired distance: 7.1 km				Proposed 40.0 dBu undesired distance: 33.2 km								
WRBO	278	FM	LIC	103.5	COMO	MS	US	C	34-51-44	18.41	64.96	-46.55
7075	BLH	19980617KC	C1	N	N		100	179	089-52-42	218.04	SHORT	Note 1
WRBO 60.0 dBu desired distance: 64.0 km				Proposed 100.0 dBu undesired distance: 1.0 km								

Note 1: There will be contour overlap normally prohibited by Section 74.1204(a). However, based on the undesired-to-desired (U/D) signal strength ratio methodology, it has been determined that no actual interference will occur due to lack of population under Section 74.1204(d). See Exhibit 17.

Note 2: Authorized W276BH operation being modified by the instant proposal.

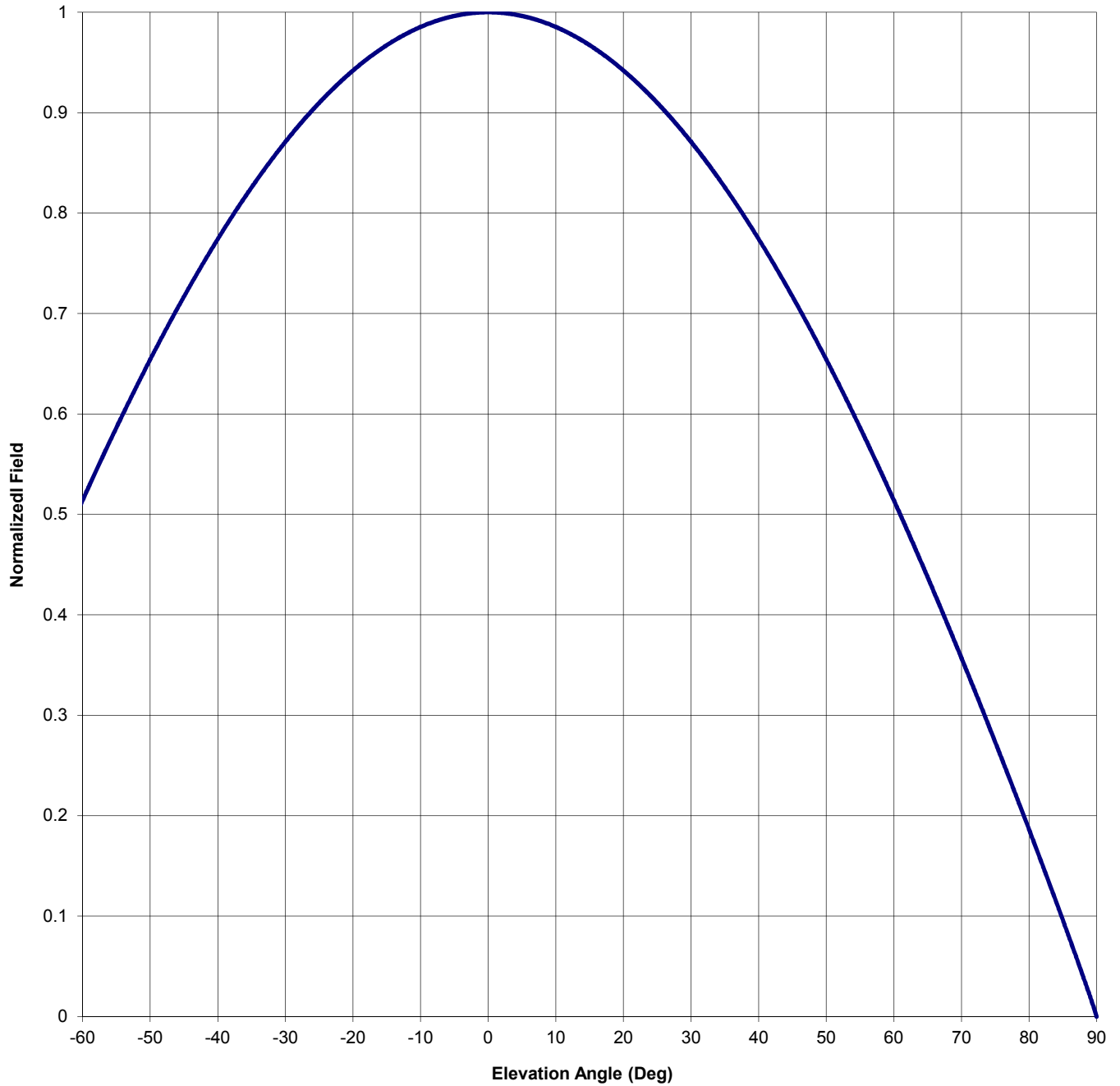
Note 3: Licensed W276BH operation.

Figure 3



Antenna Mfg.: Shively Labs
Antenna Type: 6020-1
Station: W276BH
Frequency: 103.1
Channel #: 276
Figure: Figure 3

Beam Tilt	0	
Gain (Max)	0.900	-0.456 dB
Gain (Horizon)	0.900	-0.456 dB



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Figure: Figure 3

Date: 5/29/2014

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Gain (Horizon) 0.900 -0.456 dB

Angle of Depression (Deg)	Relative Field	Angle of Depression (Deg)	Relative Field	Angle of Depression (Deg)	Relative Field	Angle of Depression (Deg)	Relative Field
-90	0.000	-44	0.729	0	1.000	46	0.705
-89	0.021	-43	0.741	1	1.000	47	0.693
-88	0.040	-42	0.752	2	0.999	48	0.680
-87	0.059	-41	0.763	3	0.999	49	0.667
-86	0.078	-40	0.774	4	0.998	50	0.654
-85	0.096	-39	0.785	5	0.996	51	0.641
-84	0.114	-38	0.796	6	0.995	52	0.628
-83	0.133	-37	0.806	7	0.993	53	0.614
-82	0.151	-36	0.816	8	0.991	54	0.600
-81	0.168	-35	0.826	9	0.988	55	0.586
-80	0.186	-34	0.835	10	0.985	56	0.572
-79	0.204	-33	0.845	11	0.982	57	0.558
-78	0.221	-32	0.854	12	0.979	58	0.544
-77	0.239	-31	0.862	13	0.975	59	0.529
-76	0.256	-30	0.871	14	0.971	60	0.514
-75	0.273	-29	0.879	15	0.967	61	0.499
-74	0.290	-28	0.887	16	0.963	62	0.484
-73	0.307	-27	0.895	17	0.958	63	0.469
-72	0.324	-26	0.903	18	0.953	64	0.453
-71	0.341	-25	0.910	19	0.948	65	0.437
-70	0.357	-24	0.917	20	0.942	66	0.422
-69	0.373	-23	0.924	21	0.936	67	0.406
-68	0.390	-22	0.930	22	0.930	68	0.390
-67	0.406	-21	0.936	23	0.924	69	0.373
-66	0.422	-20	0.942	24	0.917	70	0.357
-65	0.437	-19	0.948	25	0.910	71	0.341
-64	0.453	-18	0.953	26	0.903	72	0.324
-63	0.469	-17	0.958	27	0.895	73	0.307
-62	0.484	-16	0.963	28	0.887	74	0.290
-61	0.499	-15	0.967	29	0.879	75	0.273
-60	0.514	-14	0.971	30	0.871	76	0.256
-59	0.529	-13	0.975	31	0.862	77	0.239
-58	0.544	-12	0.979	32	0.854	78	0.221
-57	0.558	-11	0.982	33	0.845	79	0.204
-56	0.572	-10	0.985	34	0.835	80	0.186
-55	0.586	-9	0.988	35	0.826	81	0.168
-54	0.600	-8	0.991	36	0.816	82	0.151
-53	0.614	-7	0.993	37	0.806	83	0.133
-52	0.628	-6	0.995	38	0.796	84	0.114
-51	0.641	-5	0.996	39	0.785	85	0.096
-50	0.654	-4	0.998	40	0.774	86	0.078
-49	0.667	-3	0.999	41	0.763	87	0.059
-48	0.680	-2	0.999	42	0.752	88	0.040
-47	0.693	-1	1.000	43	0.741	89	0.021
-46	0.705	0	1.000	44	0.729	90	0.000
-45	0.717			45	0.717		