

**AM FILL-IN COMPLIANCE MAP**

FM TRANSLATOR STATION W251BF  
FORT MYERS, FLORIDA  
CH 231 (94.1 MHz) 0.22 kW (ND)

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



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

# FM Contour Study

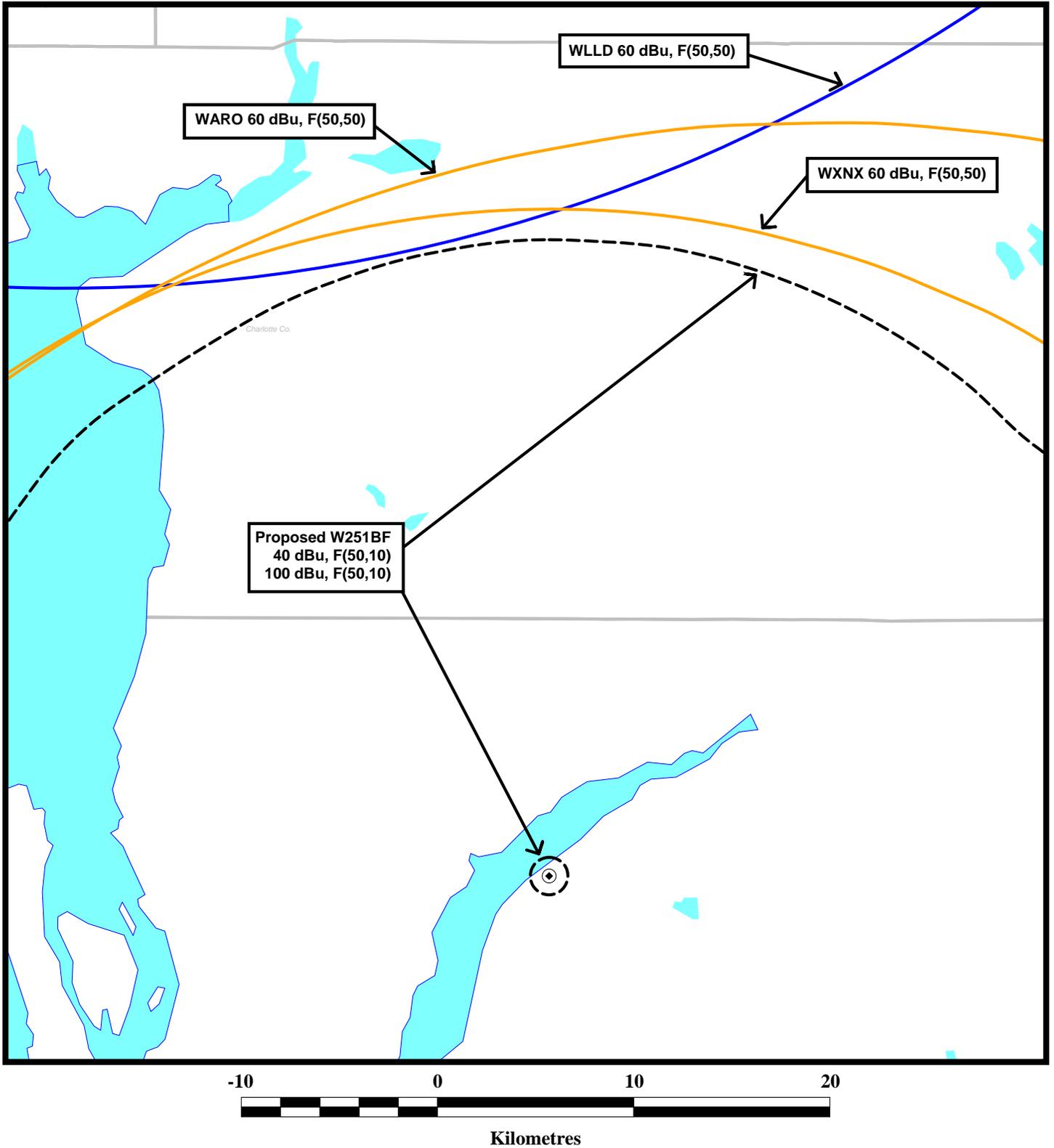
**Channel:** 231    **Coordinates:** 026-39-05 081-51-20 (NAD 27)    **ERP:** 0.22 kW    **Max. HAAT:** 63 m    **Considering Only Interference Caused**

**Comment:** Proposed W251BF

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	
<b>WXNX</b>	229	FM	LIC	93.7	SANIBEL	FL	US	C	26-30-18	16.22	51.27	-35.05
66223	BLH	20100119ABA		C2	N	Y	43	145	081-51-14	179.42	<b>SHORT</b>	/1
WXNX 60.0 dBu desired distance: 50.3 km				Proposed 100.0 dBu undesired distance: 1.0 km								
<b>WLLD</b>	231	FM	LIC	94.1	LAKELAND	FL	US	C	27-40-23	115.97	118.58	-2.61
51987	BLH	19950713KB		C	N	N	100	455	082-06-35	347.58	<b>SHORT</b>	/2
WLLD 60.0 dBu desired distance: 84.8 km				Proposed 40.0 dBu undesired distance: 33.7 km								
<b>WARO</b>	233	FM	LIC	94.5	NAPLES	FL	US	C	26-20-26	37.24	74.02	-36.78
66224	BLH	19881007KA		C0	N	N	100	309	081-42-48	157.7	<b>SHORT</b>	/1
WARO 60.0 dBu desired distance: 73.1 km				Proposed 100.0 dBu undesired distance: 1.0 km								

- /1 There will be overlap normally prohibited by Section 74.1204 (see Figure 3). However, based on the U/D signal strength interference ratio methodology, which is permitted by the FCC per Living Way Ministries, it has been determined that no actual interference would occur due to lack of population under Section 74.1204(d). See Exhibit 17 and Figure 4.
- /2 Proposal complies with the contour overlap provisions of Section 74.1204(d). See Exhibit 17 and Figure 3.

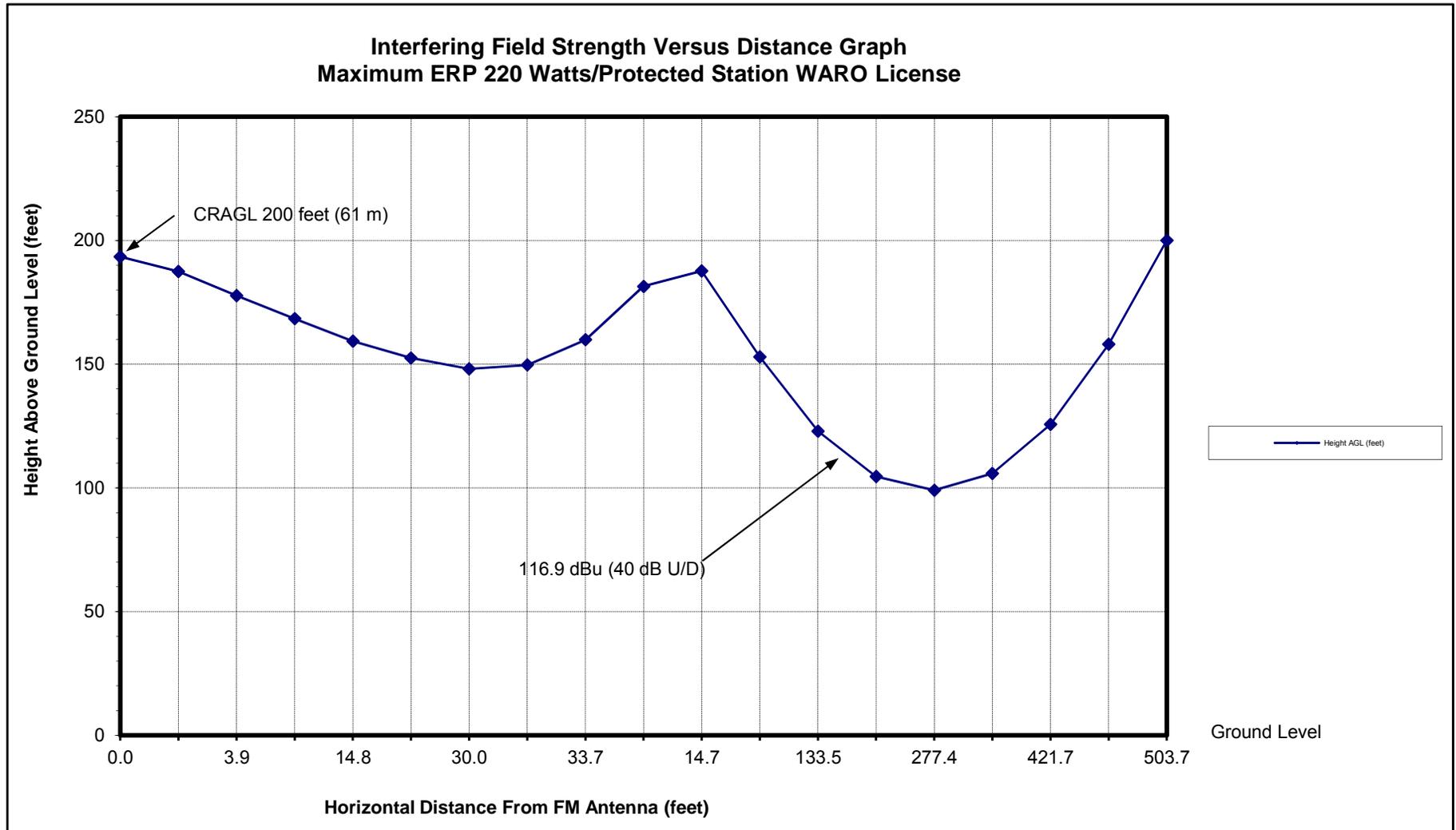
Figure 3



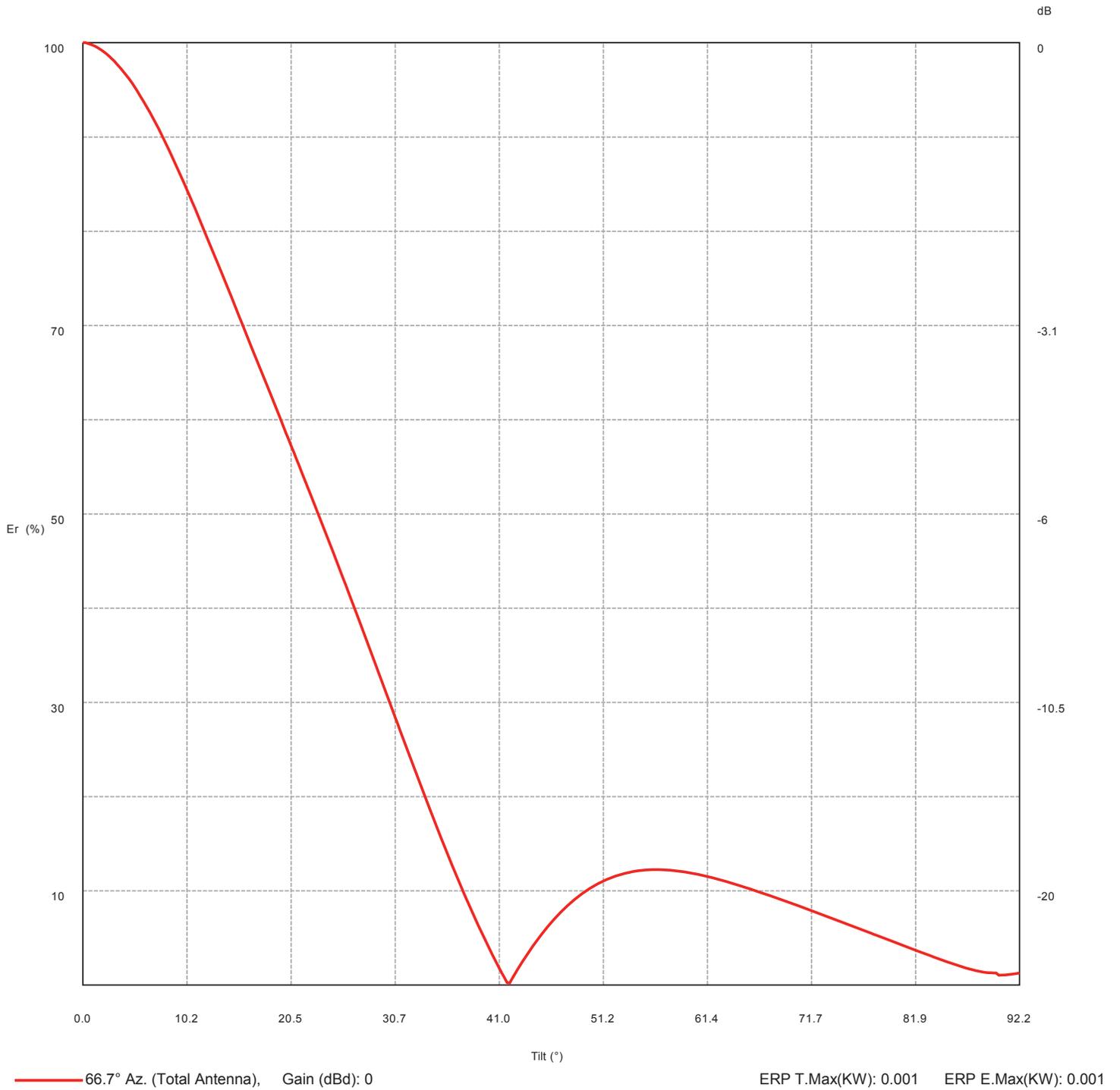
**COMPLIANCE WITH SECTION 74.1204**  
FM TRANSLATOR STATION W251BF  
FORT MYERS, FLORIDA  
CH 231 (94.1 MHZ) 0.22 kW (ND)

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

Figure 4



### Vertical diagram at an azimuth of 66.7°



Vertical diagram at an azimuth of 66.7°

Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)
0.0	100.1	1.0	15.4	71.0	0.5	30.7	28.4	0.1
0.3	100.0	1.0	15.6	70.3	0.5	31.0	27.7	0.1
0.5	99.9	1.0	15.9	69.6	0.5	31.2	26.9	0.1
0.8	99.8	1.0	16.1	68.9	0.5	31.5	26.2	0.1
1.0	99.7	1.0	16.4	68.2	0.5	31.7	25.4	0.1
1.3	99.6	1.0	16.6	67.5	0.5	32.0	24.7	0.1
1.5	99.4	1.0	16.9	66.8	0.4	32.3	24.0	0.1
1.8	99.2	1.0	17.2	66.2	0.4	32.5	23.2	0.1
2.0	99.1	1.0	17.4	65.5	0.4	32.8	22.5	0.1
2.3	98.8	1.0	17.7	64.8	0.4	33.0	21.8	0.0
2.6	98.6	1.0	17.9	64.1	0.4	33.3	21.0	0.0
2.8	98.3	1.0	18.2	63.5	0.4	33.5	20.3	0.0
3.1	98.1	1.0	18.4	62.8	0.4	33.8	19.6	0.0
3.3	97.8	1.0	18.7	62.1	0.4	34.0	18.9	0.0
3.6	97.4	0.9	18.9	61.4	0.4	34.3	18.2	0.0
3.8	97.1	0.9	19.2	60.7	0.4	34.6	17.5	0.0
4.1	96.8	0.9	19.5	60.0	0.4	34.8	16.8	0.0
4.4	96.4	0.9	19.7	59.3	0.4	35.1	16.1	0.0
4.6	96.1	0.9	20.0	58.6	0.3	35.3	15.4	0.0
4.9	95.7	0.9	20.2	57.9	0.3	35.6	14.7	0.0
5.1	95.3	0.9	20.5	57.2	0.3	35.8	14.0	0.0
5.4	94.8	0.9	20.7	56.5	0.3	36.1	13.3	0.0
5.6	94.3	0.9	21.0	55.9	0.3	36.4	12.6	0.0
5.9	93.9	0.9	21.2	55.2	0.3	36.6	12.0	0.0
6.1	93.4	0.9	21.5	54.5	0.3	36.9	11.3	0.0
6.4	92.9	0.9	21.8	53.8	0.3	37.1	10.6	0.0
6.7	92.5	0.9	22.0	53.1	0.3	37.4	10.0	0.0
6.9	92.0	0.8	22.3	52.4	0.3	37.6	9.4	0.0
7.2	91.5	0.8	22.5	51.7	0.3	37.9	8.7	0.0
7.4	90.9	0.8	22.8	51.0	0.3	38.1	8.1	0.0
7.7	90.4	0.8	23.0	50.3	0.3	38.4	7.5	0.0
7.9	89.8	0.8	23.3	49.6	0.2	38.7	6.9	0.0
8.2	89.2	0.8	23.6	48.9	0.2	38.9	6.3	0.0
8.4	88.6	0.8	23.8	48.2	0.2	39.2	5.7	0.0
8.7	88.0	0.8	24.1	47.5	0.2	39.4	5.1	0.0
9.0	87.4	0.8	24.3	46.7	0.2	39.7	4.5	0.0
9.2	86.8	0.8	24.6	46.0	0.2	39.9	4.0	0.0
9.5	86.2	0.7	24.8	45.3	0.2	40.2	3.4	0.0
9.7	85.6	0.7	25.1	44.6	0.2	40.4	2.9	0.0
10.0	85.0	0.7	25.3	43.9	0.2	40.7	2.3	0.0
10.2	84.4	0.7	25.6	43.1	0.2	41.0	1.8	0.0
10.5	83.7	0.7	25.9	42.4	0.2	41.2	1.3	0.0
10.8	83.1	0.7	26.1	41.7	0.2	41.5	0.8	0.0
11.0	82.4	0.7	26.4	41.0	0.2	41.7	0.3	0.0
11.3	81.8	0.7	26.6	40.3	0.2	42.0	0.2	0.0
11.5	81.1	0.7	26.9	39.5	0.2	42.2	0.7	0.0
11.8	80.5	0.6	27.1	38.8	0.2	42.5	1.2	0.0
12.0	79.8	0.6	27.4	38.1	0.1	42.8	1.6	0.0
12.3	79.1	0.6	27.6	37.3	0.1	43.0	2.1	0.0
12.5	78.5	0.6	27.9	36.6	0.1	43.3	2.5	0.0
12.8	77.8	0.6	28.2	35.8	0.1	43.5	2.9	0.0
13.1	77.1	0.6	28.4	35.1	0.1	43.8	3.4	0.0
13.3	76.4	0.6	28.7	34.4	0.1	44.0	3.8	0.0
13.6	75.8	0.6	28.9	33.6	0.1	44.3	4.2	0.0
13.8	75.1	0.6	29.2	32.9	0.1	44.5	4.6	0.0
14.1	74.4	0.6	29.4	32.1	0.1	44.8	4.9	0.0
14.3	73.7	0.5	29.7	31.4	0.1	45.1	5.3	0.0
14.6	73.1	0.5	30.0	30.6	0.1	45.3	5.6	0.0
14.8	72.4	0.5	30.2	29.9	0.1	45.6	6.0	0.0
15.1	71.7	0.5	30.5	29.1	0.1	45.8	6.3	0.0

Vertical diagram at an azimuth of 66.7°

Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)
46.1	6.6	0.0	61.4	11.5	0.0	76.8	5.8	0.0
46.3	7.0	0.0	61.7	11.4	0.0	77.1	5.7	0.0
46.6	7.3	0.0	62.0	11.4	0.0	77.3	5.6	0.0
46.8	7.5	0.0	62.2	11.3	0.0	77.6	5.5	0.0
47.1	7.8	0.0	62.5	11.2	0.0	77.8	5.4	0.0
47.4	8.1	0.0	62.7	11.2	0.0	78.1	5.3	0.0
47.6	8.4	0.0	63.0	11.1	0.0	78.3	5.2	0.0
47.9	8.6	0.0	63.2	11.0	0.0	78.6	5.1	0.0
48.1	8.9	0.0	63.5	10.9	0.0	78.8	5.0	0.0
48.4	9.1	0.0	63.7	10.8	0.0	79.1	4.9	0.0
48.6	9.3	0.0	64.0	10.8	0.0	79.4	4.7	0.0
48.9	9.5	0.0	64.3	10.7	0.0	79.6	4.6	0.0
49.2	9.7	0.0	64.5	10.6	0.0	79.9	4.5	0.0
49.4	9.9	0.0	64.8	10.5	0.0	80.1	4.4	0.0
49.7	10.1	0.0	65.0	10.4	0.0	80.4	4.3	0.0
49.9	10.3	0.0	65.3	10.3	0.0	80.6	4.2	0.0
50.2	10.5	0.0	65.5	10.2	0.0	80.9	4.1	0.0
50.4	10.6	0.0	65.8	10.1	0.0	81.2	4.0	0.0
50.7	10.8	0.0	66.0	10.0	0.0	81.4	3.9	0.0
50.9	10.9	0.0	66.3	10.0	0.0	81.7	3.8	0.0
51.2	11.0	0.0	66.6	9.9	0.0	81.9	3.7	0.0
51.5	11.2	0.0	66.8	9.8	0.0	82.2	3.6	0.0
51.7	11.3	0.0	67.1	9.7	0.0	82.4	3.5	0.0
52.0	11.4	0.0	67.3	9.6	0.0	82.7	3.4	0.0
52.2	11.5	0.0	67.6	9.5	0.0	82.9	3.3	0.0
52.5	11.6	0.0	67.8	9.4	0.0	83.2	3.2	0.0
52.7	11.7	0.0	68.1	9.3	0.0	83.5	3.1	0.0
53.0	11.8	0.0	68.4	9.2	0.0	83.7	3.0	0.0
53.2	11.8	0.0	68.6	9.1	0.0	84.0	2.9	0.0
53.5	11.9	0.0	68.9	9.0	0.0	84.2	2.8	0.0
53.8	12.0	0.0	69.1	8.9	0.0	84.5	2.7	0.0
54.0	12.0	0.0	69.4	8.8	0.0	84.7	2.6	0.0
54.3	12.1	0.0	69.6	8.7	0.0	85.0	2.5	0.0
54.5	12.1	0.0	69.9	8.6	0.0	85.2	2.4	0.0
54.8	12.1	0.0	70.1	8.5	0.0	85.5	2.3	0.0
55.0	12.2	0.0	70.4	8.4	0.0	85.8	2.2	0.0
55.3	12.2	0.0	70.7	8.3	0.0	86.0	2.1	0.0
55.6	12.2	0.0	70.9	8.2	0.0	86.3	2.0	0.0
55.8	12.2	0.0	71.2	8.1	0.0	86.5	1.9	0.0
56.1	12.2	0.0	71.4	8.0	0.0	86.8	1.8	0.0
56.3	12.3	0.0	71.7	7.9	0.0	87.0	1.7	0.0
56.6	12.3	0.0	71.9	7.8	0.0	87.3	1.7	0.0
56.8	12.2	0.0	72.2	7.7	0.0	87.6	1.6	0.0
57.1	12.2	0.0	72.4	7.6	0.0	87.8	1.5	0.0
57.3	12.2	0.0	72.7	7.5	0.0	88.1	1.5	0.0
57.6	12.2	0.0	73.0	7.4	0.0	88.3	1.4	0.0
57.9	12.2	0.0	73.2	7.3	0.0	88.6	1.4	0.0
58.1	12.1	0.0	73.5	7.2	0.0	88.8	1.3	0.0
58.4	12.1	0.0	73.7	7.1	0.0	89.1	1.3	0.0
58.6	12.1	0.0	74.0	7.0	0.0	89.3	1.3	0.0
58.9	12.1	0.0	74.2	6.9	0.0	89.6	1.3	0.0
59.1	12.0	0.0	74.5	6.7	0.0	89.9	1.3	0.0
59.4	12.0	0.0	74.8	6.6	0.0	90.1	1.0	0.0
59.6	11.9	0.0	75.0	6.5	0.0	90.4	1.0	0.0
59.9	11.9	0.0	75.3	6.4	0.0	90.6	1.1	0.0
60.2	11.8	0.0	75.5	6.3	0.0	90.9	1.1	0.0
60.4	11.8	0.0	75.8	6.2	0.0	91.1	1.1	0.0
60.7	11.7	0.0	76.0	6.1	0.0	91.4	1.1	0.0
60.9	11.6	0.0	76.3	6.0	0.0	91.6	1.2	0.0
61.2	11.6	0.0	76.5	5.9	0.0	91.9	1.2	0.0