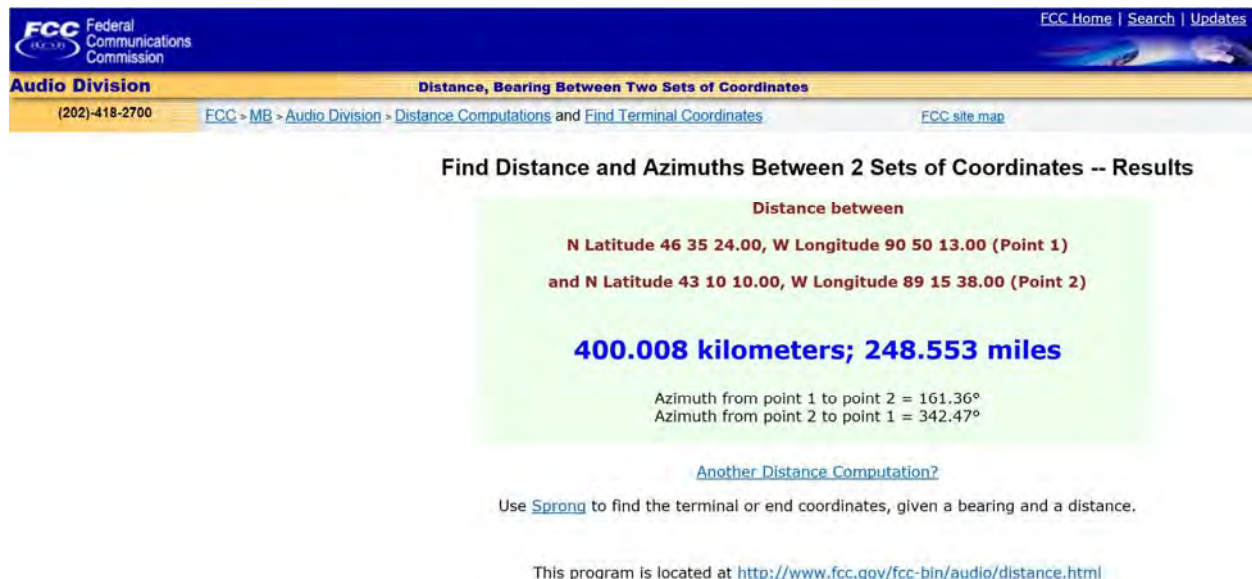


**W279CD (#138668)  
MINOR MODIFICATION PER DA-1491  
"250 MILE AM WAIVER" TO  
MADISON, WI ON  
CHANNEL 284 FOR  
WNWC(AM) (#17381)**

The proposed translator will rebroadcast WNWC(AM) at Sun Prairie, WI (facility ID #17381). A change in channel to 284 (104.7) is proposed in accordance with the waiver provisions. The proposed facility is located 248.55 miles from the existing W279CD CP location as calculated using the Commission's distance tool.



**Allocation discussion:**

All exhibits utilize the FCC 30 second terrain database.

- E1 Channel study
- E1A Interference analysis to WMHX
- E1B Interference analysis to WZEE
- E1C Aerial and street level photograph of interference area
- E2 60 dBu and 2 mV/m contours
- E3 ASR

A channel study is included as E1 demonstrating compliance with §74.1204 with the exception of 3rd adjacent WZEE and 2nd adjacent WMHX. A plot of the proposed 60 dBu contour is provided as E2 showing that it is entirely contained within primary station WNWC(AM)'s 2 mV/m and 40 km radius.

**WMHX analysis:**

The proposed facility will be located inside the protected contour of WMHX on 286B. WMHX places an 81.96 dBu (50:50) contour at the site (E1A). The corresponding (50:10) interference contour is 121.96 dBu (+40 dB) which clears the ground by at least 81.3 meters

**WZEE analysis:**

The proposed facility will be collocated with WZEE on 281B. WZEE places a 77.78 dBu (50:50) contour at the site (E1B). The corresponding (50:10) interference contour is 117.78 dBu which clears the ground by at least 69.9 meters.

The tallest building within the larger of the interference contours is two stories (see E1C). It is clear that the interference contours will not reach any populated area or major highways. Based on this showing, a waiver of Section 74.1204 is requested in accordance with *Living Way Ministries, Inc.* (FCC 08-242).

**RF Exposure Calculation:**

The proposed facility will utilize a Bext TFC2K two bay 0.75 wavelength spaced, circularly polarized antenna mounted at 100 meters AGL on ASR#1063476. The RF contribution of the proposed translator was calculated using a worst case F factor of 1.0 and the formula included below to be 1.74  $\mu\text{Watts}/\text{cm}^2$  or 0.87% of the maximum permissible 200 microwatts/cm<sup>2</sup> exposure for general population/uncontrolled exposure, and well below the 5% of that limit which requires consideration.

$$S \text{ (RF in } \mu\text{Watts}/\text{cm}^2) = \frac{33.4 (F^2 \text{ Vertical Factor}) \times (H \text{ ERP} + V \text{ ERP in Watts})}{R^2 \text{ (distance to radiation center in meters} - 2 \text{ m)}}$$



Charles M. Anderson 1-21-2016

# E1 CHANNEL STUDY

REFERENCE  
43 10 10.0 N.  
89 15 38.0 W.

CH# 284D - 104.7 MHz, Pwr= 0.25 kW, HAAT= 115.1 M, COR= 396 M  
Average Protected F(50-50)= 13.69 km  
Omni-directional

DISPLAY DATES  
DATA 01-17-16  
SEARCH 01-20-16

CH CITY	CALL	TYPE STATE	ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
281B Madison	WZEE	LIC _CN WI		234.4 54.3	22.61 BLH19980716KB	43 03 03.0 89 29 13.0	12.000 306	5.5 602	67.7 Capstar Tx, LLC	2.3	-46.8* (1)
286A Waunakee	WMHX	LIC NCN WI		331.3 151.2	6.69 BLH19920427KD	43 13 20.0 89 18 01.0	6.000 74	2.4 362	23.9 Entercom License, LLC	-8.9*	-18.3* (2)
284A Berlin	WBJZ	LIC NCX WI		19.9 200.2	86.35 BLH20060612AAK	43 53 57.0 88 53 37.0	5.200 107	84.2 369	27.0 Caxambas Corporation	-11.0	13.1
231B Watertown	WJJO	LIC _CX WI		127.3 307.5	20.23 BMLH20140219AAE	43 03 32.0 89 03 45.0	50.000 150	0.0 416	0.0 Mid-west Management, Inc.	14.5R	5.7M
283A Whitewater	WSLD	LIC NCN WI		139.5 319.9	64.45 BLH19921125KD	42 43 38.0 88 44 54.0	6.000 100	43.6 381	28.3 Wpw Broadcasting, Inc.	6.6	14.6
285A Hartford	WTKM-FM	LIC NCN WI		79.9 260.5	72.07 BLH19920413KC	43 16 48.0 88 23 02.0	5.800 91	46.2 396	30.1 Tomsun Media, LLC	11.7	20.7
285A Reedsburg	WNFM	LIC _CN WI		308.0 127.5	76.76 BLH19950803KA	43 35 32.0 90 00 42.0	3.200 137	43.2 446	28.2 Magnum Communications, Inc	19.7	27.1
284A Sturtevant	WDDW	LIC NC_ WI		106.4 287.3	120.27 BLH20040317ADF	42 51 20.0 87 50 41.0	4.200 103	80.7 315	25.8 Bustos Media Of Wisconsin,	25.5	46.7
285A Belvidere	WXRK	LIC _C_ IL		165.0 345.2	97.43 BMLH20051222ABS	42 19 21.0 88 57 14.0	4.000 122	44.1 373	28.9 Mid-way Radio, Inc.	39.6	47.8

Terrain database is FCC NGDC 30 Sec , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM  
In & Out distances between contours are shown at closest points. Reference zone= East Zone, Co to 3rd adjacent.  
All separation margins (if shown) include rounding.  
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, \_= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)  
"\*"affixed to 'IN' or 'OUT' values = site inside restricted contour.

(1) See E1B for disproval of interference to WZEE.

(2) See E1A for disproval of interference to WMHX.

# E1A WMHX ANALYSIS

W279CD Madison, WI

74.1204(d) Showing

Translator or LPFM Maximum Licensed ERP = 0.25

Translator or LPFM Antenna Height AG = 100 Meters

W279CD Antenna Model = BEXT TFC2K-2-75% SPACING

Protected Station's Contour = 81.95844 dBu

Translator's or LPFM's full Interference contour 121.95844

Review Azimuth = 0 Degrees True

Relative Field on the horizon at Review Azimuth = 1.000

Translator/LPFM ERP on the horizon at Review Azimuth = 0.25 kW

Distance between stations = 6.7 km

Protected Station= WMHX, 6 kW, 362 M Meters COR AMSL

Depression Angle From Horizon(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground (m)
00.00	1.0	1.0	0.2500	088.5213	088.5213	100.000
05.00	0.955	1.0	0.2280	084.5379	084.2162	092.632
10.00	0.859	1.0	0.1845	076.0398	074.8846	086.796
15.00	0.737	1.0	0.1358	065.2402	063.0172	083.115
20.00	0.615	1.0	0.0946	054.4406	051.1575	081.380 *
25.00	0.494	1.0	0.0610	043.7295	039.6324	081.519
30.00	0.35	1.0	0.0306	030.9825	026.8316	084.509
35.00	0.194	1.0	0.0094	017.1731	014.0674	090.150
40.00	0.051	1.0	0.0007	004.5146	003.4584	097.098
45.00	0.071	1.0	0.0013	006.2850	004.4442	095.556
50.00	0.149	1.0	0.0056	013.1897	008.4782	089.896
55.00	0.184	1.0	0.0085	016.2879	009.3424	086.658
60.00	0.19	1.0	0.0090	016.8191	008.4095	085.434
65.00	0.178	1.0	0.0079	015.7568	006.6591	085.719
70.00	0.156	1.0	0.0061	013.8093	004.7231	087.023
75.00	0.126	1.0	0.0040	011.1537	002.8868	089.226
80.00	0.09	1.0	0.0020	007.9669	001.3834	092.154
85.00	0.051	1.0	0.0007	004.5146	000.3935	095.503
90.00	0.02	1.0	0.0001	001.7704	000.0000	098.230

\* Minimum clearance above ground is 81.3 meters.

# E1B WZEE ANALYSIS

W279CD MADISON, WI

74.1204(d) Showing

Translator or LPFM Maximum Licensed ERP = 0.25

Translator or LPFM Antenna Height AG = 100 Meters

W279CD Antenna Model = BEXT TFC2K-2-75% SPACING

Protected Station's Contour = 77.79942 dBu

Translator's or LPFM's full Interference contour 117.79942

Review Azimuth = 0 Degrees True

Relative Field on the horizon at Review Azimuth = 1.000

Translator/LPFM ERP on the horizon at Review Azimuth = 0.25 kW

Distance between stations = 22.6 km

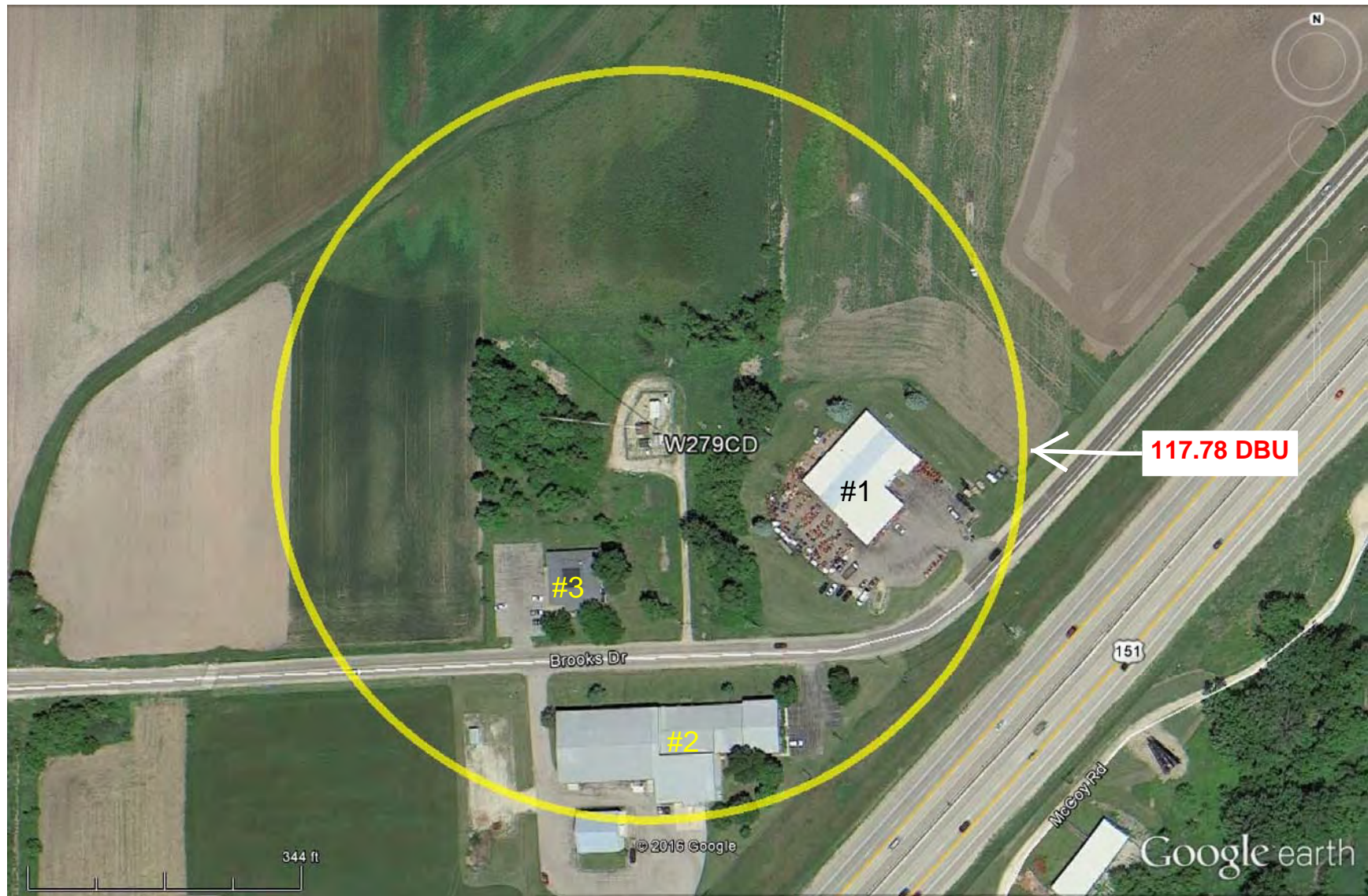
Protected Station= WZEE, 12 kW, 602 M Meters COR AMSL

Depression Angle From Horizon(Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base(m)	Height IX Above Ground (m)
00.00	1.0	1.0	0.2500	142.8891	142.8891	100.000
05.00	0.955	1.0	0.2280	136.4591	135.9398	088.107
10.00	0.859	1.0	0.1845	122.7417	120.8770	078.686
15.00	0.737	1.0	0.1358	105.3092	101.7209	072.744
20.00	0.615	1.0	0.0946	087.8768	082.5772	069.944 *
25.00	0.494	1.0	0.0610	070.5872	063.9737	070.169
30.00	0.35	1.0	0.0306	050.0112	043.3109	074.994
35.00	0.194	1.0	0.0094	027.7205	022.7073	084.100
40.00	0.051	1.0	0.0007	007.2873	005.5824	095.316
45.00	0.071	1.0	0.0013	010.1451	007.1737	092.826
50.00	0.149	1.0	0.0056	021.2905	013.6853	083.691
55.00	0.184	1.0	0.0085	026.2916	015.0802	078.463
60.00	0.19	1.0	0.0090	027.1489	013.5745	076.488
65.00	0.178	1.0	0.0079	025.4343	010.7490	076.949
70.00	0.156	1.0	0.0061	022.2907	007.6239	079.054
75.00	0.126	1.0	0.0040	018.0040	004.6598	082.609
80.00	0.09	1.0	0.0020	012.8600	002.2331	087.335
85.00	0.051	1.0	0.0007	007.2873	000.6351	092.740
90.00	0.02	1.0	0.0001	002.8578	000.0000	097.142

\* Minimum ground clearance is 69.9 meters. Tallest building is two stories.



# E1C AERIAL AND STREET VIEWS OF 117.78 DBU (50:10) CONTOUR





## E1C STREET VIEW OF BUILDING #1 WITHIN INTERFERENCE CONTOUR



## E1C STREET VIEW OF BUILDING #2 WITHIN INTERFERENCE CONTOUR





## E1C STREET VIEW OF BUILDING #3 WITHIN INTERFERENCE CONTOUR



## EXHIBIT E2

### W279CD

Latitude: 43-10-10 N  
Longitude: 089-15-38 W  
ERP: 0.25 kW  
Channel: 284  
Frequency: 104.7 MHz  
AMSL Height: 396.0 m  
Elevation: 296.0 m  
Horiz. Pattern: Omni

PROPOSED 60 DBU

W279CD

WNWC

WNWC 25 MILES

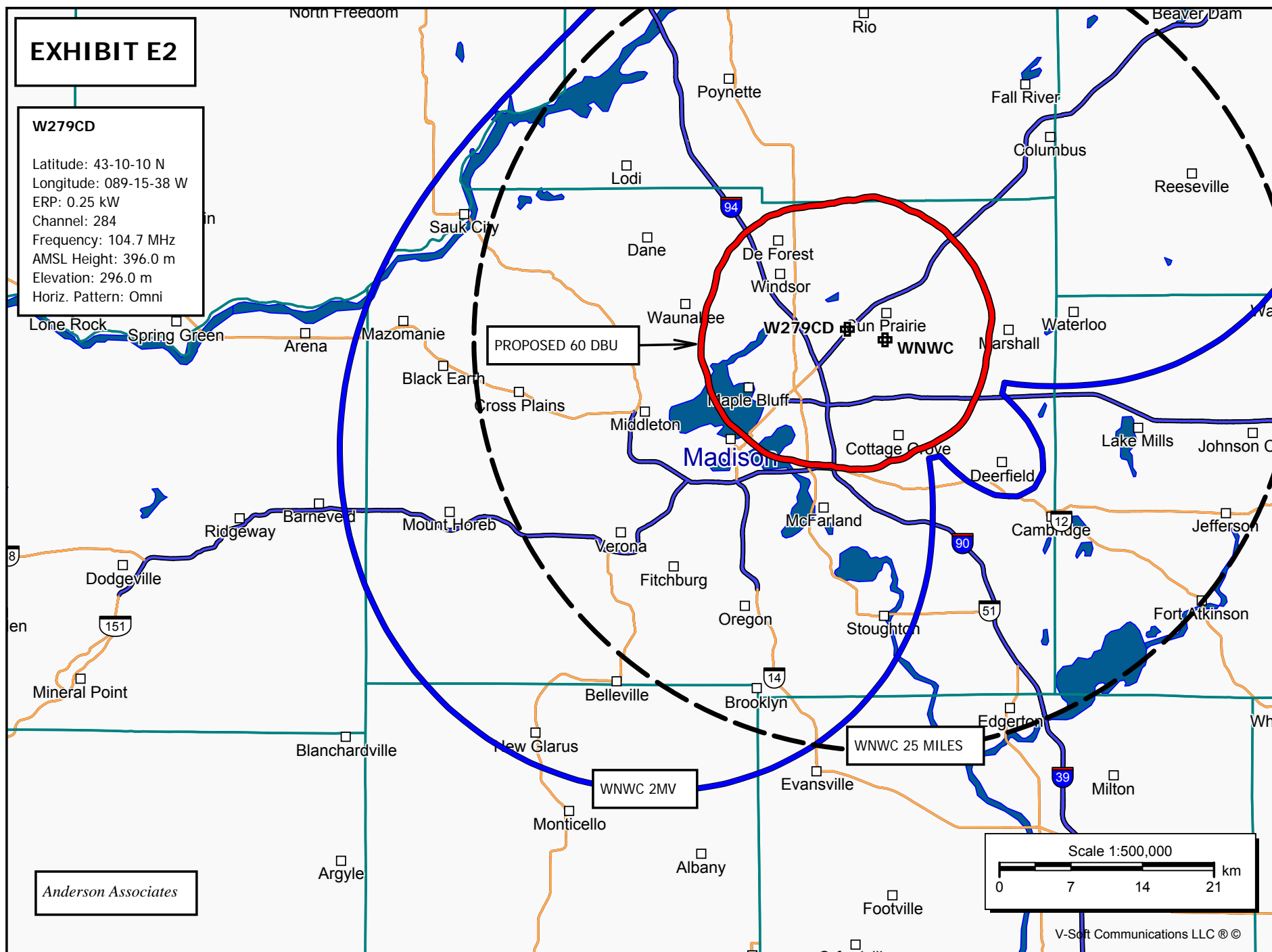
WNWC 2MV

Scale 1:500,000



V-Soft Communications LLC ©

Anderson Associates



# E3 Registration 1063476

 [Map Registration](#)

## Registration Detail

Reg Number	1063476	Status	Constructed
File Number	A0971904	Constructed	01/01/1984
EMI	No	Dismantled	
NEPA	No		

## Antenna Structure

Structure Type TOWER - Free standing or Guyed Structure used for Commu

### Location (in NAD83 Coordinates)

Lat/Long	43-10-09.9 N 089-15-38.4 W	Address	3392 BROOKS DR
City, State	SUN PRAIRIE , WI		
Zip	53590	County	DANE
Center of AM Array		Position of Tower in Array	

### Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
296.0	119.0
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
415.0	117.0

### Painting and Lighting Specifications

FCC Paragraphs 1, 3, 12, 21

### FAA Notification

FAA Study	98-AGL-4554-OE	FAA Issue Date	10/27/1998
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### Owner & Contact Information

FRN	0023451453	Owner Entity Type	Limited Liability Company
Assignor FRN	0005793716	Assignor ID	L00166590

### Owner

Vertical Bridge Towers, LLC  
Attention To: FCC Contact  
750 Park of Commerce Drive  
Suite 200  
Boca Raton , FL 33487

P: (561)221-0987  
F:  
E: FCC-FAA@verticalbridge.com

### Contact

Lindeman , Leslie N  
Attention To: FCC Contact  
750 Park of Commerce Drive  
Suite 200  
Boca Raton , FL 33487

P: (561)221-0987  
F:  
E: FCC-FAA@verticalbridge.com

### Last Action Status

Status	Constructed	Received	05/22/2015
Purpose	Change Owner	Entered	05/22/2015
Mode	Interactive		

### Related Applications

# Output from NADCON for station W279CD (284)

North American Datum Conversion

NAD 83 to NAD 27

NADCON Program Version 2.11

=====

Transformation #: 1                      Region: Conus

Latitude                                      Longitude

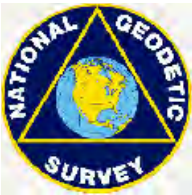
NAD 27 datum values:                      43 10 9.92309                      89 15 37.98405

NAD 83 datum values:                      43 10 9.90000                      89 15 38.40000

NAD 27 - NAD 83 shift values:                      0.02309                      -0.41595(secs.)

0.713                      -9.395 (meters)

Magnitude of total shift:                      9.422(meters)



[NGS HOME PAGE](#)



## 2 Bay TFC2K .75 Wave 97.7MHz

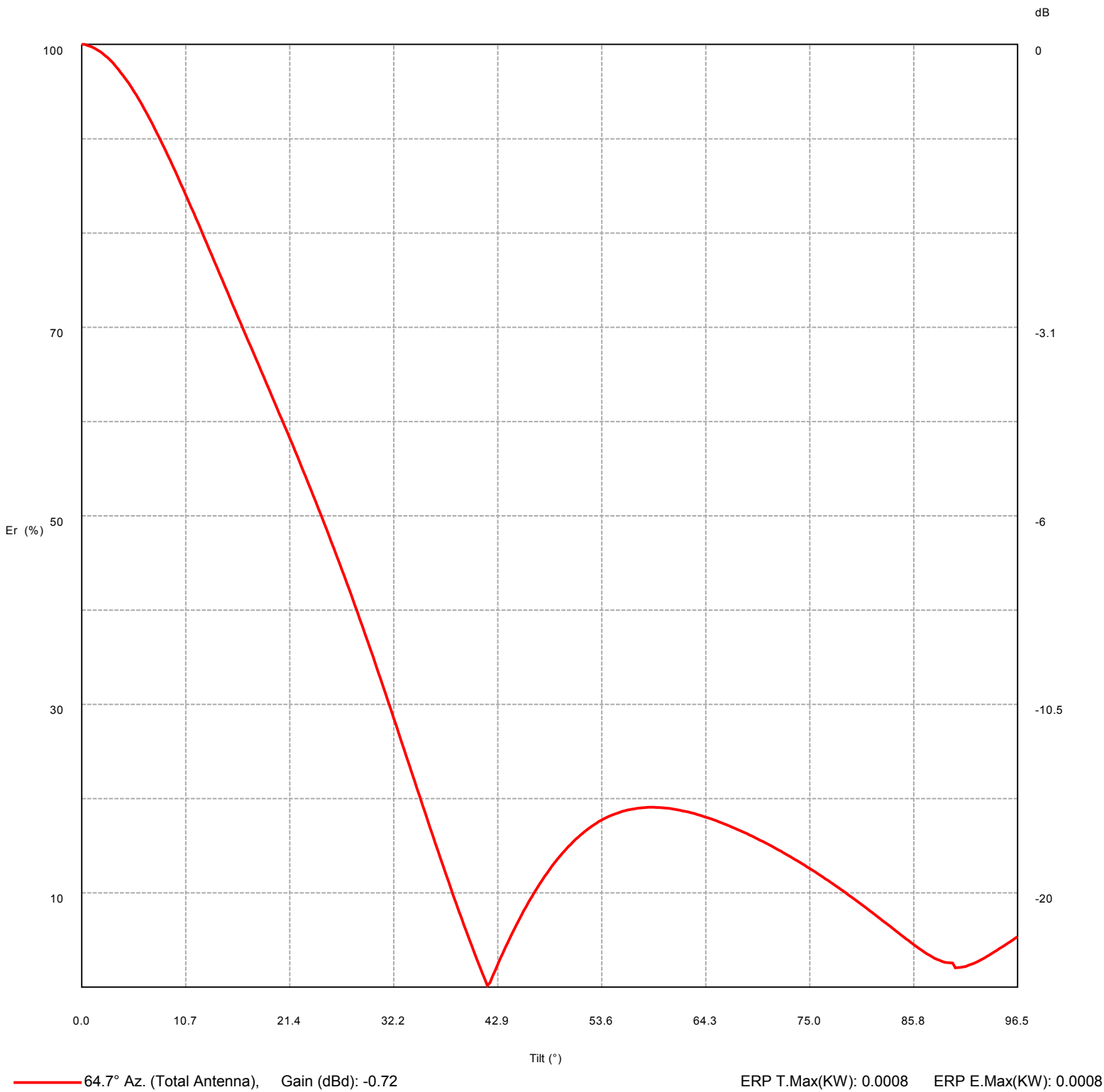
September 8, 2014



**Geometrical and electrical data of antenna System**

	<i>Power</i> (%)	<i>Tilt</i> (°)	<i>Az.</i> (°/N)	<i>Phase</i> (°)		<i>V dist.</i> (m)	<i>Scr-d</i> (cm)	<i>Scr-Az</i> (°/N)	<i>Rot.</i> (1÷4)	<i>Type</i> (1÷2)	<i>L cables</i> (cm)	<i>Car. phase</i> (°)
1	50.000	0	0	0	+0.0	1.15	0.0	0.0	1	1	0.0	0.0
2	50.000	0	0	0	+0.0	-1.15	0.0	0.0	1	1	0.0	0.0

Vertical diagram at an azimuth of 64.7°



### Vertical diagram at an azimuth of 64.7°

Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)
0.0	100.1	0.8	16.1	71.1	0.4	32.2	28.5	0.1
0.3	100.0	0.8	16.3	70.5	0.4	32.4	27.7	0.1
0.5	99.9	0.8	16.6	69.8	0.4	32.7	26.8	0.1
0.8	99.8	0.8	16.9	69.2	0.4	33.0	26.0	0.1
1.1	99.7	0.8	17.2	68.5	0.4	33.2	25.2	0.1
1.3	99.6	0.8	17.4	67.9	0.4	33.5	24.3	0.1
1.6	99.4	0.8	17.7	67.3	0.4	33.8	23.5	0.0
1.9	99.2	0.8	18.0	66.7	0.4	34.0	22.7	0.0
2.1	99.0	0.8	18.2	66.0	0.4	34.3	21.9	0.0
2.4	98.8	0.8	18.5	65.4	0.4	34.6	21.0	0.0
2.7	98.6	0.8	18.8	64.7	0.4	34.8	20.2	0.0
2.9	98.3	0.8	19.0	64.1	0.3	35.1	19.4	0.0
3.2	98.0	0.8	19.3	63.4	0.3	35.4	18.5	0.0
3.5	97.7	0.8	19.6	62.8	0.3	35.6	17.7	0.0
3.8	97.4	0.8	19.8	62.1	0.3	35.9	16.9	0.0
4.0	97.0	0.8	20.1	61.5	0.3	36.2	16.1	0.0
4.3	96.6	0.8	20.4	60.8	0.3	36.4	15.2	0.0
4.6	96.3	0.8	20.6	60.2	0.3	36.7	14.4	0.0
4.8	95.9	0.8	20.9	59.5	0.3	37.0	13.6	0.0
5.1	95.5	0.8	21.2	58.9	0.3	37.3	12.8	0.0
5.4	95.1	0.8	21.4	58.2	0.3	37.5	12.0	0.0
5.6	94.6	0.8	21.7	57.6	0.3	37.8	11.2	0.0
5.9	94.2	0.8	22.0	56.9	0.3	38.1	10.4	0.0
6.2	93.7	0.7	22.2	56.2	0.3	38.3	9.6	0.0
6.4	93.2	0.7	22.5	55.6	0.3	38.6	8.9	0.0
6.7	92.7	0.7	22.8	54.9	0.3	38.9	8.1	0.0
7.0	92.1	0.7	23.0	54.2	0.2	39.1	7.3	0.0
7.2	91.6	0.7	23.3	53.5	0.2	39.4	6.6	0.0
7.5	91.1	0.7	23.6	52.8	0.2	39.7	5.8	0.0
7.8	90.5	0.7	23.9	52.2	0.2	39.9	5.1	0.0
8.0	90.0	0.7	24.1	51.5	0.2	40.2	4.4	0.0
8.3	89.4	0.7	24.4	50.8	0.2	40.5	3.6	0.0
8.6	88.9	0.7	24.7	50.1	0.2	40.7	2.9	0.0
8.8	88.3	0.7	24.9	49.4	0.2	41.0	2.2	0.0
9.1	87.7	0.7	25.2	48.7	0.2	41.3	1.5	0.0
9.4	87.1	0.6	25.5	47.9	0.2	41.5	0.8	0.0
9.6	86.5	0.6	25.7	47.2	0.2	41.8	0.2	0.0
9.9	85.9	0.6	26.0	46.5	0.2	42.1	0.5	0.0
10.2	85.3	0.6	26.3	45.8	0.2	42.3	1.1	0.0
10.5	84.7	0.6	26.5	45.0	0.2	42.6	1.8	0.0
10.7	84.0	0.6	26.8	44.3	0.2	42.9	2.4	0.0
11.0	83.4	0.6	27.1	43.6	0.2	43.1	3.0	0.0
11.3	82.8	0.6	27.3	42.8	0.2	43.4	3.6	0.0
11.5	82.1	0.6	27.6	42.1	0.1	43.7	4.2	0.0
11.8	81.5	0.6	27.9	41.3	0.1	44.0	4.8	0.0
12.1	80.9	0.6	28.1	40.6	0.1	44.2	5.4	0.0
12.3	80.2	0.5	28.4	39.8	0.1	44.5	6.0	0.0
12.6	79.6	0.5	28.7	39.0	0.1	44.8	6.5	0.0
12.9	78.9	0.5	28.9	38.2	0.1	45.0	7.1	0.0
13.1	78.3	0.5	29.2	37.4	0.1	45.3	7.6	0.0
13.4	77.6	0.5	29.5	36.6	0.1	45.6	8.1	0.0
13.7	77.0	0.5	29.7	35.8	0.1	45.8	8.6	0.0
13.9	76.3	0.5	30.0	35.0	0.1	46.1	9.1	0.0
14.2	75.7	0.5	30.3	34.2	0.1	46.4	9.5	0.0
14.5	75.0	0.5	30.6	33.4	0.1	46.6	10.0	0.0
14.7	74.4	0.5	30.8	32.6	0.1	46.9	10.5	0.0
15.0	73.7	0.5	31.1	31.8	0.1	47.2	10.9	0.0
15.3	73.1	0.5	31.4	31.0	0.1	47.4	11.3	0.0
15.5	72.4	0.4	31.6	30.2	0.1	47.7	11.7	0.0
15.8	71.8	0.4	31.9	29.3	0.1	48.0	12.1	0.0



### Vertical diagram at an azimuth of 64.7°

Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)
48.2	12.5	0.0	64.3	18.0	0.0	80.4	8.8	0.0
48.5	12.9	0.0	64.6	17.9	0.0	80.7	8.5	0.0
48.8	13.2	0.0	64.9	17.8	0.0	80.9	8.3	0.0
49.0	13.6	0.0	65.1	17.8	0.0	81.2	8.1	0.0
49.3	13.9	0.0	65.4	17.7	0.0	81.5	7.9	0.0
49.6	14.2	0.0	65.7	17.6	0.0	81.7	7.7	0.0
49.8	14.6	0.0	65.9	17.4	0.0	82.0	7.5	0.0
50.1	14.9	0.0	66.2	17.3	0.0	82.3	7.3	0.0
50.4	15.1	0.0	66.5	17.2	0.0	82.5	7.1	0.0
50.7	15.4	0.0	66.7	17.1	0.0	82.8	6.9	0.0
50.9	15.7	0.0	67.0	17.0	0.0	83.1	6.6	0.0
51.2	15.9	0.0	67.3	16.9	0.0	83.3	6.4	0.0
51.5	16.2	0.0	67.5	16.8	0.0	83.6	6.2	0.0
51.7	16.4	0.0	67.8	16.6	0.0	83.9	6.0	0.0
52.0	16.6	0.0	68.1	16.5	0.0	84.2	5.8	0.0
52.3	16.8	0.0	68.3	16.4	0.0	84.4	5.6	0.0
52.5	17.0	0.0	68.6	16.3	0.0	84.7	5.4	0.0
52.8	17.2	0.0	68.9	16.1	0.0	85.0	5.1	0.0
53.1	17.4	0.0	69.1	16.0	0.0	85.2	4.9	0.0
53.3	17.6	0.0	69.4	15.9	0.0	85.5	4.7	0.0
53.6	17.7	0.0	69.7	15.7	0.0	85.8	4.5	0.0
53.9	17.9	0.0	69.9	15.6	0.0	86.0	4.3	0.0
54.1	18.0	0.0	70.2	15.4	0.0	86.3	4.1	0.0
54.4	18.1	0.0	70.5	15.3	0.0	86.6	3.9	0.0
54.7	18.3	0.0	70.8	15.2	0.0	86.8	3.7	0.0
54.9	18.4	0.0	71.0	15.0	0.0	87.1	3.5	0.0
55.2	18.5	0.0	71.3	14.9	0.0	87.4	3.4	0.0
55.5	18.6	0.0	71.6	14.7	0.0	87.6	3.2	0.0
55.7	18.6	0.0	71.8	14.6	0.0	87.9	3.1	0.0
56.0	18.7	0.0	72.1	14.4	0.0	88.2	2.9	0.0
56.3	18.8	0.0	72.4	14.2	0.0	88.4	2.8	0.0
56.5	18.8	0.0	72.6	14.1	0.0	88.7	2.7	0.0
56.8	18.9	0.0	72.9	13.9	0.0	89.0	2.6	0.0
57.1	18.9	0.0	73.2	13.8	0.0	89.2	2.6	0.0
57.4	19.0	0.0	73.4	13.6	0.0	89.5	2.6	0.0
57.6	19.0	0.0	73.7	13.4	0.0	89.8	2.5	0.0
57.9	19.0	0.0	74.0	13.3	0.0	90.0	2.0	0.0
58.2	19.1	0.0	74.2	13.1	0.0	90.3	2.1	0.0
58.4	19.1	0.0	74.5	12.9	0.0	90.6	2.1	0.0
58.7	19.1	0.0	74.8	12.8	0.0	90.9	2.1	0.0
59.0	19.1	0.0	75.0	12.6	0.0	91.1	2.2	0.0
59.2	19.1	0.0	75.3	12.4	0.0	91.4	2.3	0.0
59.5	19.1	0.0	75.6	12.2	0.0	91.7	2.4	0.0
59.8	19.0	0.0	75.8	12.0	0.0	91.9	2.5	0.0
60.0	19.0	0.0	76.1	11.9	0.0	92.2	2.6	0.0
60.3	19.0	0.0	76.4	11.7	0.0	92.5	2.8	0.0
60.6	19.0	0.0	76.6	11.5	0.0	92.7	2.9	0.0
60.8	18.9	0.0	76.9	11.3	0.0	93.0	3.1	0.0
61.1	18.9	0.0	77.2	11.1	0.0	93.3	3.2	0.0
61.4	18.8	0.0	77.5	10.9	0.0	93.5	3.4	0.0
61.6	18.8	0.0	77.7	10.8	0.0	93.8	3.6	0.0
61.9	18.7	0.0	78.0	10.6	0.0	94.1	3.7	0.0
62.2	18.6	0.0	78.3	10.4	0.0	94.3	3.9	0.0
62.4	18.6	0.0	78.5	10.2	0.0	94.6	4.1	0.0
62.7	18.5	0.0	78.8	10.0	0.0	94.9	4.3	0.0
63.0	18.5	0.0	79.1	9.8	0.0	95.1	4.4	0.0
63.2	18.4	0.0	79.3	9.6	0.0	95.4	4.6	0.0
63.5	18.3	0.0	79.6	9.4	0.0	95.7	4.8	0.0
63.8	18.2	0.0	79.9	9.2	0.0	95.9	5.0	0.0
64.1	18.1	0.0	80.1	9.0	0.0	96.2	5.2	0.0