

ASR Registration Search

**Registration 1003751** [Map Registration](#)**Registration Detail**

Reg Number	1003751	Status	Constructed
File Number	A0429021	Constructed	07/22/1987
EMI	No	Dismantled	
NEPA	No		

**Antenna Structure**

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

**Location** (in NAD83 Coordinates)

Lat/Long	45-19-17.0 N 084-52-33.0 W	Address	.2 KM N OF KING RD .6 KM E OF KRAUS
City, State	PETOSKEY , MI		
Zip	49770	County	EMMET
Center of AM Array		Position of Tower in Array	

**Heights (meters)**

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
380.0	174.0
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
554.0	173.1

**Painting and Lighting Specifications**

FAA Chapters 3, 4, 5, 9

Paint and Light in Accordance with FAA Circular Number 70/7460-1G

**FAA Notification**

FAA Study	85-AGL-1425-OE	FAA Issue Date	10/17/1985
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**Owner & Contact Information**

FRN	0008983033	Owner Entity Type	
Assignor FRN	0002764900	Assignor ID	L00086826

**Owner**

MacDonald Garber Broadcasting, Inc.  
 Attention To: Patricia MacDonald  
 2095 U.S. 131 South  
 Petoskey , MI 49770

P: (231)347-8713  
 F:  
 E: tmac@106khq.com

**Contact**

P:  
 F:  
 E:

■

**Last Action Status**

Status	Constructed	Received	02/12/2005
Purpose	Change Owner	Entered	02/12/2005
Mode	Interactive		

**Related Applications**

02/12/2005	A0429021 - Change Owner (OC)
12/29/2004	A0420535 - Admin Update (AU)
10/11/1996	A0004304 - New (NE)

▣

**Comments****Comments**

None

▣

**History****Date****Event**

02/14/2005	Registration Printed
02/14/2005	Change of Ownership Letter Sent
02/12/2005	Change of Ownership Received

All History (7)

▣

**Automated Letters**

02/14/2005	Ownership Change, Reference 402681
02/14/2005	Authorization, Reference 402768
12/30/2004	Authorization, Reference 389819

▣

**CLOSE WINDOW**

**WMBN.L**

Latitude: 45-20-50 N  
Longitude: 084-58-01 W  
ERP: 0.10 kW  
Channel: 201  
Frequency: 1.34 MHz  
AMSL Height: 0.0 m  
Elevation: 0.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

**XLATOR@WLXT**

Latitude: 45-19-17 N  
Longitude: 084-52-33 W  
ERP: 0.25 kW  
Channel: 284  
Frequency: 104.7 MHz  
AMSL Height: 524.0 m  
Elevation: 380.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

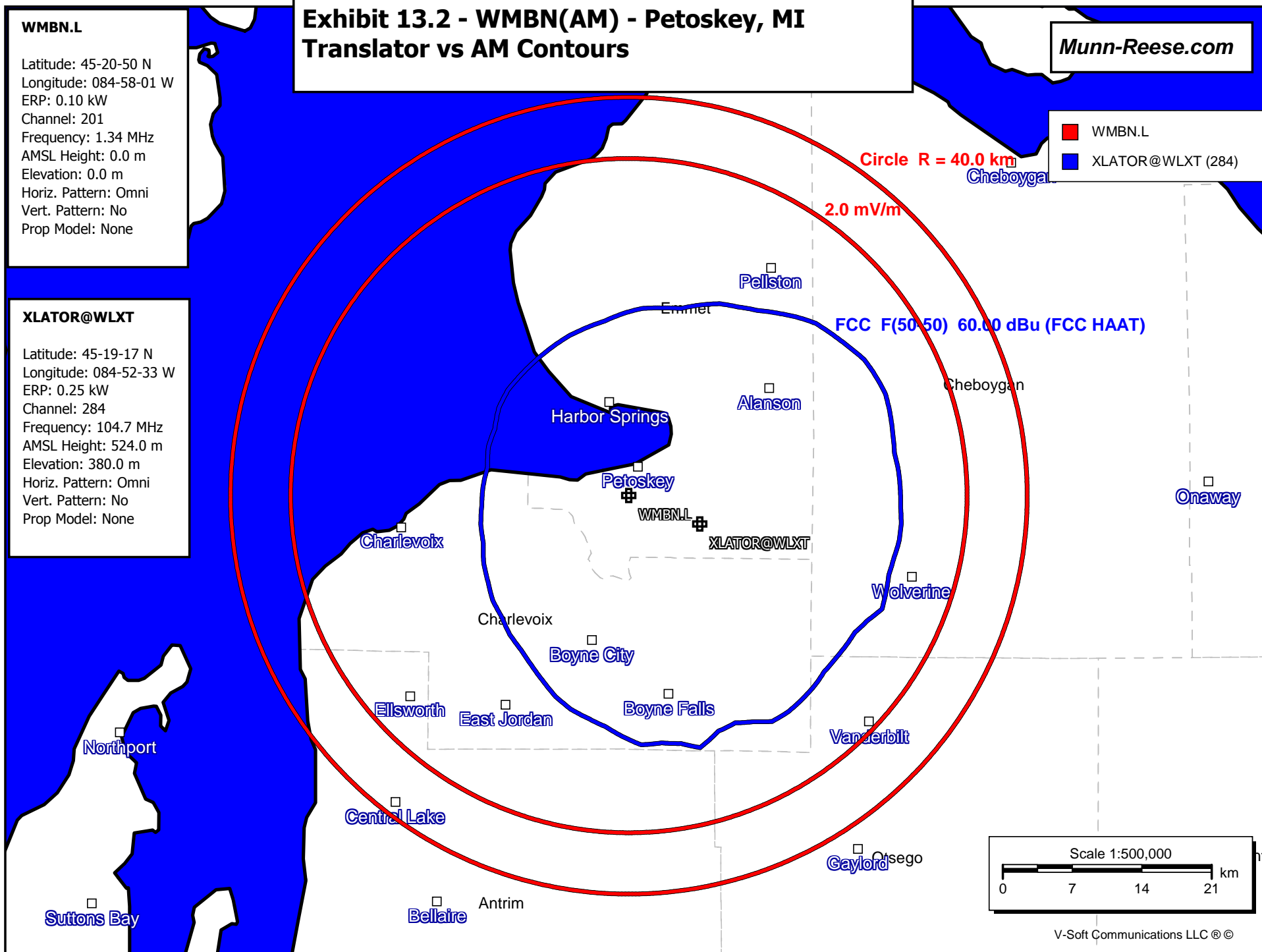
**Exhibit 13.2 - WMBN(AM) - Petoskey, MI  
Translator vs AM Contours****Munn-Reese.com**

■ WMBN.L  
■ XLATOR@WLXT (284)

Circle R = 40.0 km

2.0 mV/m

FCC F(50/50) 60.00 dBu (FCC HAAT)



Munn-Reese  
Coldwater, MI 49036

13.3

Macdonald Garber Broadcasting, Inc.

REFERENCE CH# 284D - 104.7 MHz, Pwr= 0.25 kw, HAAT= 0.0 M, COR= 524 M  
45 19 17.0 N. Average Protected F(50-50)= 7.09 km  
84 52 33.0 W. Omni-directional

DISPLAY DATES  
DATA 11-08-17  
SEARCH 11-11-17

CH CITY	CALL	TYPE STATE	ANT --	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
284D Petoskey	1761566	APP _C_ MI		0.0 0.0	0.00 BNPFT20170727AAT	45 19 17.0 84 52 33.0	0.250 524	66.6 524	22.0 Macdonald Garber Broadcast	-88.6*	-88.6*
286C1 Cheboygan	WGFM	LIC NCX MI		149.8 329.9	19.45 BLH20080822AAQ	45 10 12.0 84 45 04.0	43.000 295	8.5 624	66.9 Black Diamond Broadcast Ho	-9.4*<	-48.5*<
284C Escanaba	AL1246	RSV-A _MI		296.6 114.9	197.21 RM9801	46 05 31.0 87 09 50.0	100.000 600	200.0 886	93.1	-25.7*<	35.0
284C2 Tawas City	WKJC	LIC _CN MI		135.1 316.0	141.33 BLH19970121KA	44 24 48.0 83 37 14.0	50.000 150	135.8 382	50.3 Carroll Enterprises, Inc.	-13.7*<	31.5
283A Traverse City	WZTC	LIC NCX MI		226.6 46.1	87.72 BLH20110826AAN	44 46 36.0 85 41 02.0	1.750 187	48.3 419	32.0 Playtime Media, Llc	17.3	22.7
284C1 Escanaba	WYKX	LIC _CX MI		290.8 109.1	198.00 BLH20160815AAE	45 55 45.0 87 16 11.0	100.000 105	153.2 373	57.1 Kmb Br	22.1	72.6
285A Lake City	WAIR	LIC ZCX MI		196.3 16.0	124.13 BLED20170428ABF	44 14 56.0 85 18 48.0	2.800 149	39.7 554	26.4 Smile Fm	61.5	63.4
230C2 Mio	WAVC	LIC _CX MI		148.2 328.6	77.42 BLED20140619ABQ	44 43 42.0 84 21 37.0	50.000 126	43.9 477	12.9 West Central Michigan Medi	14.5R	62.9M
282C Sault Ste Marie	CJQMFM	OPE _CN ON		15.8 196.2	147.22	46 35 40.0 84 21 00.0	100.000 150	8.6 426	70.0	116.1	67.2
284A Elliot Lake	AL9439	VAC _ON		55.0 236.6	211.68	46 23 21.0 82 37 06.0	6.000 100	86.7 100	38.0	102.3	87.5
230C2 Newberry	WNBY-FM	LIC _CX MI		352.2 172.0	126.59 BLH20060420AAV	46 26 58.0 85 06 04.0	50.000 135	43.9 368	12.9 Sovereign Communications,	14.5R	112.1M
285A Spring Bay	CJTH-FM-1	PRO _VN ON		76.2 258.0	204.44 20170724CA3	45 43 53.0 82 19 27.0	0.530 26	35.8 232	32.9	147.4	127.2
282A Manistee	AL5679	RSV-A _MI		222.8 41.8	166.85 RM11418	44 12 40.0 86 17 53.0	6.000 100	2.7 299	27.3	141.8	138.5
283B Muskegon	WSNX-FM	LIC _CN MI		201.7 20.9	252.63 BLH19880930KC	43 12 16.0 86 01 45.0	32.000 189	76.1 392	64.1 Cc Licenses, Llc	154.0	141.4
286A Ephraim	WSBW	LIC _CX WI		267.6 86.0	173.55 BLH20140617AAM	45 14 05.0 87 05 27.0	3.100 142	2.6 323	28.5 Nicolet Broadcasting, Inc.	149.1	144.0
285C3 Denmark	AL0200	RSV-A _WI		245.5 63.6	235.35 RM9372	44 24 38.0 87 34 20.0	25.000 100	64.3 308	42.5	149.1	160.1
285A Alma	WQBX	LIC NCX MI		174.2 354.4	218.14 BLH20141219ACN	43 22 08.0 84 36 19.0	6.000 100	44.4 327	28.8 Jacom, Inc.	153.0	158.7
285C3 Denmark	WPCK	LIC ZCX WI		248.8 66.8	245.35 BLH20031110AMW	44 29 17.0 87 45 40.0	10.000 157	59.0 396	39.8 Cumulus Licensing Llc	164.2	172.6
281A Linwood	WSAG	LIC NCX MI		157.1 337.8	192.14 BLH20070522ABZ	43 43 30.0 83 56 50.0	4.600 99	2.5 282	26.5 Macdonald Broadcasting Com	168.6	164.6
283A Saginaw	WILZ	LIC NCN MI		160.2 340.9	227.37 BLH19920825KB	43 23 34.0 83 55 27.0	2.900 126	40.6 309	26.7 Radio License Holding Cbc,	165.7	169.4
282A Mount Pleasant	WCZY-FM	LIC _CN MI		178.8 358.8	192.07 BLH19910828KB	43 35 39.0 84 49 26.0	3.000 100	2.3 351	24.1 Latitude Media, Llc	167.7	166.9
287B Coopersville	AL6792	RSV-A _MI		200.1 19.4	233.72 RM10545	43 20 36.0 85 52 16.0	50.000 150	5.8 382	64.2	205.2	167.5
287B Coopersville	WHTS	LIC _CX MI		200.6 19.9	238.37 BLH20060516ACU	43 18 35.0 85 54 45.0	20.000 242	5.7 469	64.8 Radio License Holding Cbc,	210.0	171.6
281A Algoma	WRLU	LIC _C_ WI		252.0 70.2	210.33 BLH19991012AAW	44 42 26.0 87 24 26.0	2.400 158	2.6 354	29.4 Nicolet Broadcasting, Inc.	185.7	179.8
230C1 Sturgeon Bay	WDOR-FM	LIC _CN WI		257.6 75.9	201.68 BLH19801224AK	44 54 23.0 87 22 15.0	77.000 198	43.9 396	12.9 Door County Broadcasting C	21.5R	180.2M

Page # 2

CH	CALL	TYPE	ANT	AZI	DIST	LAT	PWR(kw)	INT(km)	PRO(km)	*IN*	*OUT*
CITY		STATE		<--	FILE #	LNG	HAAT(M)	COR(M)	LICENSEE	(Overlap	in km)

Terrain database is NED 03 SEC , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM  
Contour distances are on direct line to and from reference station. 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.  
< = Contour Overlap

**WMBN.L**

Latitude: 45-20-50 N  
Longitude: 084-58-01 W  
ERP: 0.10 kW  
Channel: 201  
Frequency: 1.34 MHz  
AMSL Height: 0.0 m  
Elevation: 0.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

**WGFM**

BLH20080822AAQ  
Latitude: 45-10-12 N  
Longitude: 084-45-04 W  
ERP: 43.00 kW  
Channel: 286  
Frequency: 105.1 MHz  
AMSL Height: 624.0 m  
Elevation: 468.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

**XLATOR@WLXT**

Latitude: 45-19-17 N  
Longitude: 084-52-33 W  
ERP: 0.25 kW  
Channel: 284  
Frequency: 104.7 MHz  
AMSL Height: 524.0 m  
Elevation: 380.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

# Exhibit 13.4 - WMBN(AM) - Petoskey, MI Translator vs WGFM(FM) in Support of 74.1204 (d) Waiver Request

Munn-Reese.com

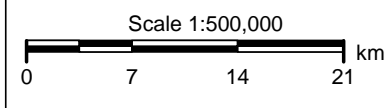
- WMBN.L
- XLATOR@WLXT (284)
- WGFM (286)

Circle R = 40.0 km

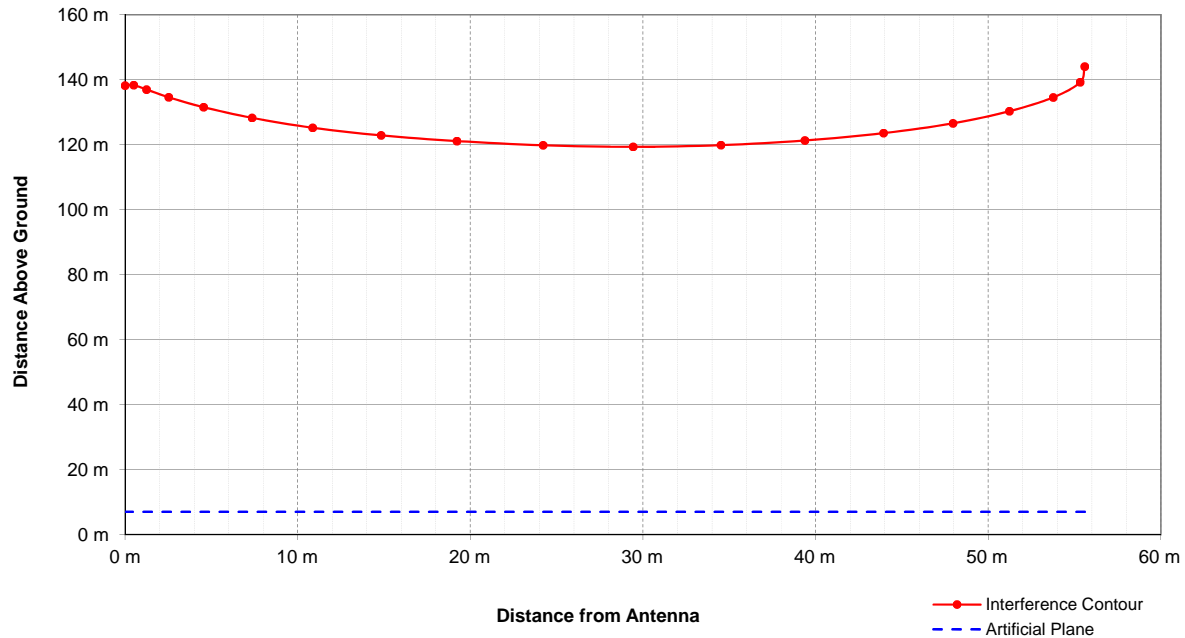
2.0 mV/m

FCC F(50/50) 60.00 dBu (FCC HAAT)

FCC F(50/50) 86.00 dBu (FCC HAAT)



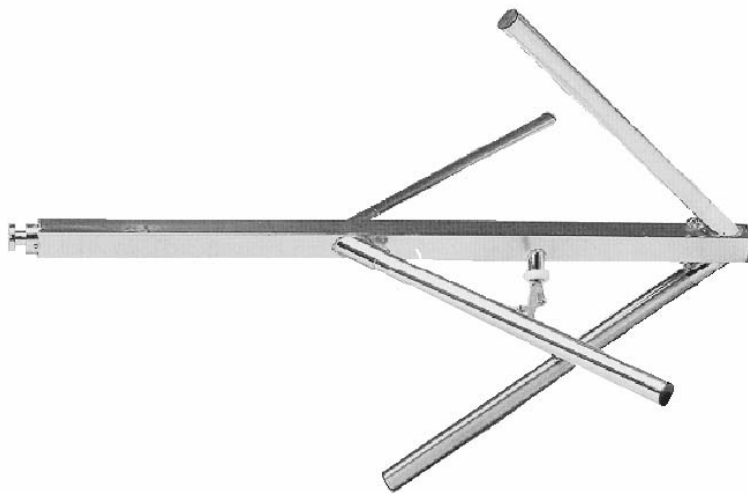
V-Soft Communications LLC ©



**Proposed Antenna:** 1 Bay Nicom BKG77-1 (One Bay Fully Spaced)  
**Proposed Power:** 0.25 kW  
**Antenna Height AGL:** 144 meters  
**Interference Contour:** 126 dBu f(50:10)  
**Artificial Ground Plane Height:** 7 meters  
**Distance (Free Space) Equation:**  $= (10^{((106.92 - [\text{desired dBu}] + [\text{ERP in dBk}]) / 20)}) * 1000$   
**Field Strength (dBu) Equation:**  $= 106.92 - (20 * (\text{LOG10}[\text{DistMeters}] / 1000)) + [\text{ERP in dBk}]$

Depression				Distance		Field Strength		
Angle	Antenna			from Ant.	Distance		Distance	Field Strength
Below	Relative	ERP	ERP	to Interference	from Ant. to	in dBu @	from Ant.	in dBu @
Horizon	Field	in kW	in dBk	Contour	Artificial Plane	Artificial Plane	to Ground Level	Ground Level
0°	1.000	0.250	-6.02	55.59 m	infinite	---	---	---
-5°	0.999	0.250	-6.03	55.53 m	1571.90 m	96.96 dBu	1652.21 m	96.53 dBu
-10°	0.982	0.241	-6.18	54.59 m	788.95 m	102.80 dBu	829.26 m	102.37 dBu
-15°	0.954	0.228	-6.43	53.03 m	529.33 m	106.02 dBu	556.37 m	105.58 dBu
-20°	0.918	0.211	-6.76	51.03 m	400.56 m	108.10 dBu	421.03 m	107.67 dBu
-25°	0.872	0.190	-7.21	48.47 m	324.17 m	109.49 dBu	340.73 m	109.06 dBu
-30°	0.818	0.167	-7.77	45.47 m	274.00 m	110.40 dBu	288.00 m	109.97 dBu
-35°	0.758	0.144	-8.43	42.13 m	238.85 m	110.93 dBu	251.06 m	110.50 dBu
-40°	0.691	0.119	-9.23	38.41 m	213.13 m	111.12 dBu	224.02 m	110.68 dBu
-45°	0.616	0.095	-10.23	34.24 m	193.75 m	110.95 dBu	203.65 m	110.51 dBu
-50°	0.538	0.072	-11.40	29.91 m	178.84 m	110.47 dBu	187.98 m	110.03 dBu
-55°	0.465	0.054	-12.67	25.85 m	167.25 m	109.78 dBu	175.79 m	109.35 dBu
-60°	0.391	0.038	-14.18	21.73 m	158.19 m	108.76 dBu	166.28 m	108.33 dBu
-65°	0.313	0.024	-16.11	17.40 m	151.16 m	107.22 dBu	158.89 m	106.79 dBu
-70°	0.239	0.014	-18.45	13.29 m	145.79 m	105.19 dBu	153.24 m	104.76 dBu
-75°	0.176	0.008	-21.11	9.78 m	141.83 m	102.77 dBu	149.08 m	102.34 dBu
-80°	0.129	0.004	-23.81	7.17 m	139.11 m	100.24 dBu	146.22 m	99.81 dBu
-85°	0.103	0.003	-25.76	5.73 m	137.52 m	98.39 dBu	144.55 m	97.96 dBu
-90°	0.105	0.003	-25.60	5.84 m	137.00 m	98.59 dBu	144.00 m	98.16 dBu

## Exhibit 13.5 - Manufacturer's Antenna Specifications



**NICOM**  
**BKG77**

**Low Power**

**Broadband  
FM Circular  
Polarization  
Antenna  
Antena de  
FM Banda Ancha  
Polarizacion Circular**

This antenna, constructed completely of stainless steel, offers circular polarization for better coverage especially in urban areas. In order to facilitate and decrease shipping costs, this model is simple to break down and reassemble when ready to be installed. It is insulated with Teflon, and with the appropriate connector has a maximum input of 0.5 kw.

Esta antena, fabricada completamente de acero inoxidable, le ofrece polarización circular para mejor alcance, especialmente en zonas urbanas. Para facilitar y disminuir los costos de transportación, este modelo es fácil de desarmar y volver a montar tan pronto que la quiera instalar. Está aislada con Teflon, y con el conector apropiado tiene una entrada máxima de 0.5 kw.



### TECHNICAL SPECIFICATIONS (per bay)

Antenna type	circular polarization dipole	Front-to-back ratio	3 dB
Frequency range	87.5 - 108 MHz	Lightening protection	all parts grounded
Bandwidth	500 kHz max	Max wind velocity	119 mph (190 km/h)
Impedance	50 ohms	Wind load	8 Lbs (3.6 kg)
Connectors	N type (0.5 kw)	Wind surface	0.3 ft <sup>2</sup> (0.04 m <sup>2</sup> )
Power rating	500 Watts max	Materials (external)	stainless steel
VSWR	< 1.1:1	Mounting	from 2" to 4"
Polarization	vertical and horizontal	Weight	7.7 Lbs (3.5 kg)
Gain	- 3 dBd (referred to half-wave dipole)	Dimensions	58"×32"×32" (1450×800×800mm)
H plane	omnidirectional ±1.5 dB (with a 4" mast)	Packing	72"×6"×6" (1500×152×152mm)
V plane	omnidirectional ±3 dB (with a 4" mast)		



Date: 29/04/2013

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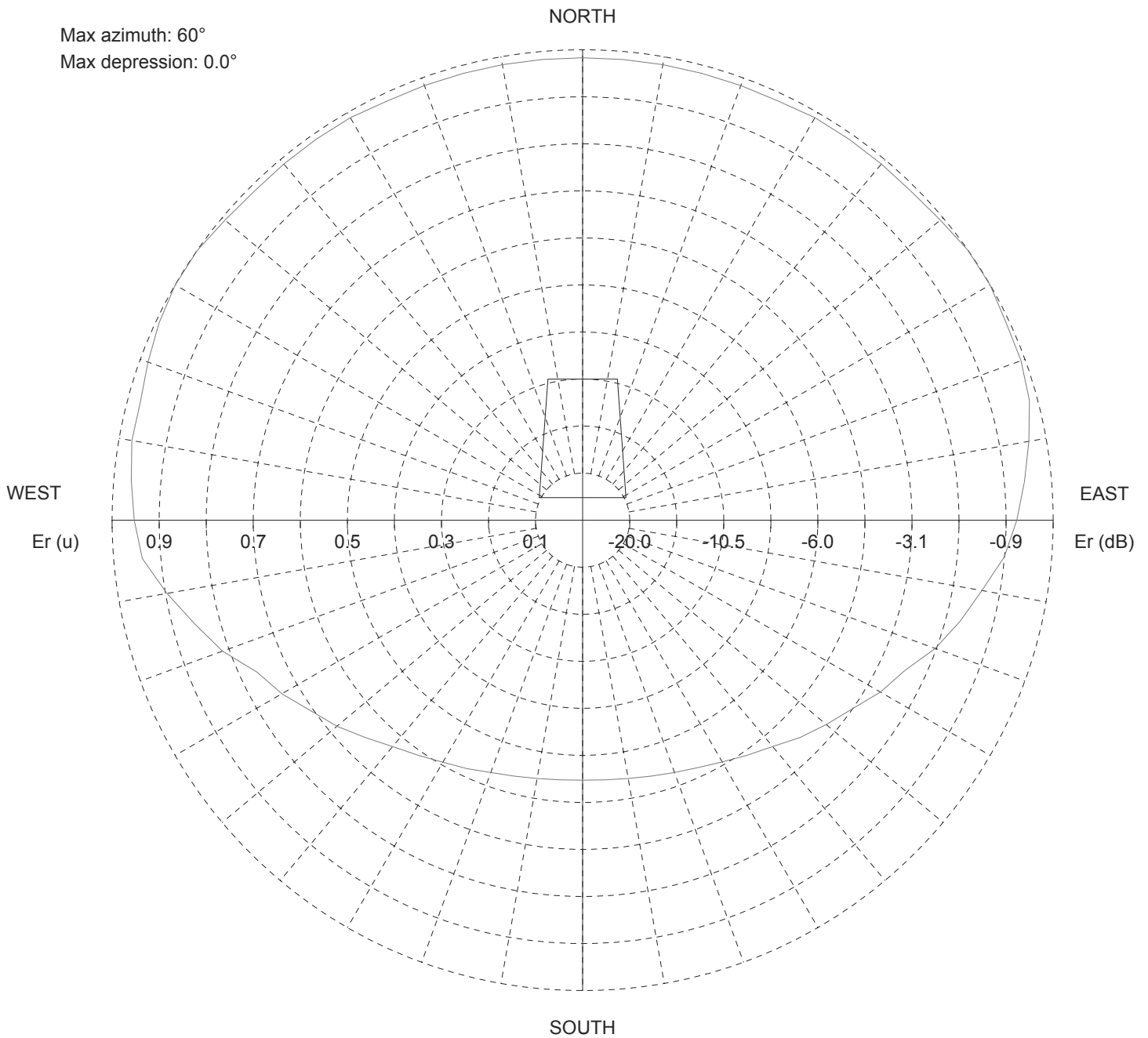
TX station: BKG77-1

Site name:

Frequency: 100.00 MHz

### Horizontal diagram of Maxima

Max azimuth: 60°  
Max depression: 0.0°



—— 0.0° depres. (Total antenna), Gain (dBd): -3.03 ERP T.max (KW): 0.498

ERP E.max (KW): 0.387

NicomUsa, Inc

Date: 29/04/2013

BKG77SINGLE.PRJ

TX station: BKG77-1

Site name:

Frequency: 100.00 MHz

### Horizontal diagram of Maxima

Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)	Az (°)	Dep (°)	Er (%)	ERP (W)
0.0	0.0	98.3	373.6	120.0	0.0	73.1	206.6	240.0	0.0	73.8	210.7
5.0	0.0	98.3	373.6	125.0	0.0	69.9	189.2	245.0	0.0	76.4	225.7
10.0	0.0	98.3	373.6	130.0	0.0	67.6	176.7	250.0	0.0	81.5	256.6
15.0	0.0	98.3	373.6	135.0	0.0	65.3	165.1	255.0	0.0	85.3	281.6
20.0	0.0	98.3	373.6	140.0	0.0	62.8	152.7	260.0	0.0	89.7	311.1
25.0	0.0	98.3	373.6	145.0	0.0	61.0	144.0	265.0	0.0	93.9	341.1
30.0	0.0	98.8	377.5	150.0	0.0	59.4	136.3	270.0	0.0	95.3	351.1
35.0	0.0	98.8	377.5	155.0	0.0	58.0	130.3	275.0	0.0	96.3	358.5
40.0	0.0	98.8	377.5	160.0	0.0	57.1	126.1	280.0	0.0	97.3	366.1
45.0	0.0	98.8	377.5	165.0	0.0	56.3	122.8	285.0	0.0	97.3	366.1
50.0	0.0	99.2	380.8	170.0	0.0	55.8	120.3	290.0	0.0	98.3	373.6
55.0	0.0	100.0	386.5	175.0	0.0	55.4	118.7	295.0	0.0	99.3	381.4
60.0	0.0	100.0	386.7	180.0	0.0	55.3	118.2	300.0	0.0	100.0	386.7
65.0	0.0	99.3	381.4	185.0	0.0	55.4	118.7	305.0	0.0	100.0	386.5
70.0	0.0	99.1	380.0	190.0	0.0	55.8	120.3	310.0	0.0	99.2	380.8
75.0	0.0	98.3	373.6	195.0	0.0	56.3	122.8	315.0	0.0	98.8	377.5
80.0	0.0	96.3	358.5	200.0	0.0	57.1	126.1	320.0	0.0	98.8	377.5
85.0	0.0	94.3	343.8	205.0	0.0	58.3	131.4	325.0	0.0	98.8	377.5
90.0	0.0	92.3	329.3	210.0	0.0	59.4	136.5	330.0	0.0	98.8	377.5
95.0	0.0	90.0	312.9	215.0	0.0	61.0	144.0	335.0	0.0	98.3	373.6
100.0	0.0	86.2	287.1	220.0	0.0	62.8	152.7	340.0	0.0	98.3	373.6
105.0	0.0	83.0	266.7	225.0	0.0	65.3	165.1	345.0	0.0	98.3	373.6
110.0	0.0	79.7	245.9	230.0	0.0	68.2	179.6	350.0	0.0	98.3	373.6
115.0	0.0	75.6	221.0	235.0	0.0	70.6	192.7	355.0	0.0	98.3	373.6

Date: 29/04/2013

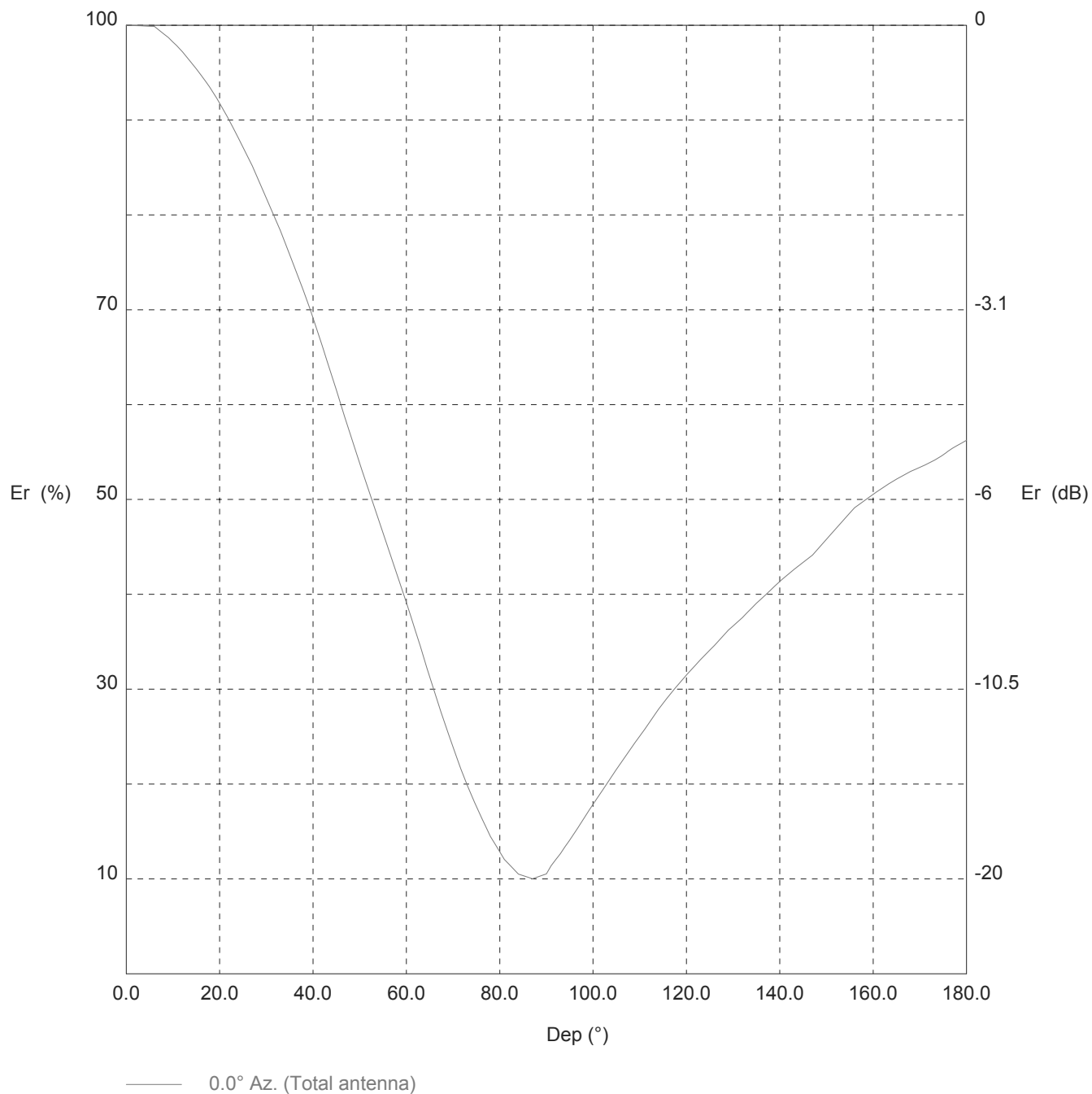
BKG77SINGLE.PRJ

TX station: BKG77-1

Site name:

Frequency: 100.00 MHz

### Vertical diagram



TX station: BKG77-1

Site name:

Frequency: 100.00 MHz

**Vertical diagram at an azimuth of 0° degrees**

Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)	Dep (°)	Er (%)	ERP (W)
0.0	100.0	373.6	60.0	39.1	57.2	120.0	31.5	37.0
1.0	100.0	373.5	61.0	37.6	52.8	121.0	32.0	38.3
2.0	100.0	373.4	62.0	36.1	48.6	122.0	32.6	39.6
3.0	99.9	373.3	63.0	34.5	44.6	123.0	33.1	41.0
4.0	99.9	373.1	64.0	32.9	40.5	124.0	33.6	42.2
5.0	99.9	372.9	65.0	31.3	36.6	125.0	34.1	43.5
6.0	99.9	372.8	66.0	29.7	33.0	126.0	34.6	44.7
7.0	99.5	369.9	67.0	28.2	29.8	127.0	35.2	46.2
8.0	99.1	367.0	68.0	26.8	26.8	128.0	35.7	47.6
9.0	98.7	364.1	69.0	25.3	23.9	129.0	36.2	49.1
10.0	98.2	360.5	70.0	23.9	21.3	130.0	36.7	50.3
11.0	97.7	356.9	71.0	22.5	18.9	131.0	37.1	51.5
12.0	97.2	353.3	72.0	21.1	16.6	132.0	37.6	52.7
13.0	96.6	348.9	73.0	19.9	14.8	133.0	38.1	54.1
14.0	96.0	344.5	74.0	18.8	13.2	134.0	38.6	55.6
15.0	95.4	340.1	75.0	17.6	11.6	135.0	39.1	57.0
16.0	94.7	335.4	76.0	16.6	10.2	136.0	39.5	58.4
17.0	94.1	330.8	77.0	15.5	9.0	137.0	40.0	59.7
18.0	93.4	326.1	78.0	14.5	7.8	138.0	40.4	61.1
19.0	92.6	320.4	79.0	13.7	7.0	139.0	40.9	62.5
20.0	91.8	314.7	80.0	12.9	6.2	140.0	41.4	63.9
21.0	91.0	309.1	81.0	12.0	5.4	141.0	41.8	65.3
22.0	90.0	302.7	82.0	11.5	5.0	142.0	42.2	66.5
23.0	89.1	296.5	83.0	11.0	4.5	143.0	42.6	67.8
24.0	88.1	290.3	84.0	10.5	4.1	144.0	43.0	69.0
25.0	87.2	283.8	85.0	10.3	4.0	145.0	43.4	70.3
26.0	86.2	277.4	86.0	10.2	3.9	146.0	43.8	71.6
27.0	85.2	271.1	87.0	10.0	3.7	147.0	44.1	72.8
28.0	84.0	263.9	88.0	10.2	3.9	148.0	44.7	74.7
29.0	82.9	256.8	89.0	10.4	4.0	149.0	45.3	76.5
30.0	81.8	249.8	90.0	10.5	4.1	150.0	45.8	78.4
31.0	80.6	242.9	91.0	11.4	4.8	151.0	46.4	80.3
32.0	79.5	236.1	92.0	12.0	5.4	152.0	46.9	82.3
33.0	78.3	229.3	93.0	12.7	6.0	153.0	47.5	84.3
34.0	77.1	222.0	94.0	13.4	6.7	154.0	48.0	86.2
35.0	75.8	214.7	95.0	14.1	7.4	155.0	48.6	88.2
36.0	74.5	207.6	96.0	14.8	8.2	156.0	49.1	90.2
37.0	73.2	200.4	97.0	15.6	9.1	157.0	49.5	91.5
38.0	71.9	193.3	98.0	16.4	10.0	158.0	49.8	92.8
39.0	70.6	186.3	99.0	17.1	11.0	159.0	50.2	94.1
40.0	69.1	178.6	100.0	17.9	11.9	160.0	50.5	95.4
41.0	67.6	170.9	101.0	18.6	12.9	161.0	50.9	96.8
42.0	66.1	163.5	102.0	19.3	13.9	162.0	51.2	98.1
43.0	64.6	156.0	103.0	20.1	15.0	163.0	51.5	99.2
44.0	63.1	148.7	104.0	20.8	16.2	164.0	51.8	100.4
45.0	61.6	141.6	105.0	21.5	17.3	165.0	52.1	101.6
46.0	60.0	134.4	106.0	22.3	18.5	166.0	52.4	102.7
47.0	58.4	127.5	107.0	23.0	19.7	167.0	52.7	103.7
48.0	56.8	120.7	108.0	23.7	21.0	168.0	53.0	104.8
49.0	55.3	114.4	109.0	24.4	22.2	169.0	53.2	105.7
50.0	53.8	108.2	110.0	25.1	23.5	170.0	53.4	106.5
51.0	52.3	102.2	111.0	25.7	24.8	171.0	53.6	107.4
52.0	50.8	96.6	112.0	26.5	26.2	172.0	53.9	108.4
53.0	49.4	91.1	113.0	27.2	27.6	173.0	54.1	109.4
54.0	47.9	85.8	114.0	27.9	29.0	174.0	54.4	110.5
55.0	46.5	80.7	115.0	28.5	30.4	175.0	54.7	111.9
56.0	45.0	75.7	116.0	29.2	31.8	176.0	55.1	113.3
57.0	43.6	71.0	117.0	29.8	33.1	177.0	55.4	114.7
58.0	42.1	66.2	118.0	30.4	34.4	178.0	55.7	115.9
59.0	40.6	61.6	119.0	30.9	35.7	179.0	56.0	117.0