

Channel 222 Relationship

REFERENCE		CH# 222D - 92.3 MHz, Pwr= 0.01 kW, HAAT=181.7 M, COR= 545 M								DISPLAY DATES	
42 52 10 N		Average Protected F(50-50)= 7.83 km								DATA 07-26-03	
75 32 14 W		Ave. F(50-10) 40 dBu= 26.4 54 dBu= 11.1 80 dBu= 1.9 100 dBu= .2								SEARCH 07-26-03	
CH	CALL	TYPE	AZI.	DIST	LAT.	Pwr(kW)	COR(M)	PRO(km)	*IN*	*OUT*	
CITY		STATE	<--	FILE #	LNG.	HAAT(M)	INT(km)	LICENSEE	(Overlap in km)		
222D	AP222	APP C	0.0	0.00	42 52 10	0.010	545	7.3	-30.67*<	-27.67*<	
Hami l ton		NY	180.0	BNPFT20030310BEH	75 32 14	157	20.4	State University Of New Yo			
222D	AP222	APP C	7.2	37.58	43 12 18	0.038	200	4.4	16.13	8.04	
Rome		NY	187.2	BNPFT20030317BPV	75 28 45	12	25.2	Educational Media Foundati			
222D	AP222	APP DV	15.1	38.81	43 12 24	0.000	183	0.0	30.85	12.00	
Rome		NY	195.1	BNPFT20030310AYK	75 24 46	-5	26.8	State University Of New Yo			
222D	AP222	APP C	6.1	39.45	43 13 21	0.050	163	4.7	17.16	10.21	
Rome		NY	186.1	BNPFT20030312BBX	75 29 08	-14	24.5	Northeast Gospel Network,			
222D	AP222	APP C	237.5	70.99	42 31 30	0.010	525	5.4	47.54	46.53	
Dryden		NY	57.5	BNPFT20030310BAH	76 16 01	87	19.0	State University Of New Yo			
223D	AP223	APP C	338.5	20.44	43 02 26	0.010	430	6.5	2.83	1.95	
Onei da		NY	158.5	BNPFT20030313AXE	75 37 46	123	12.0	Educational Media Foundati			
222L1	AP222	APP	183.2	32.67	42 34 33	0.007	512	5.7	6.61	2.11	
Norwi ch		NY	3.2	BNPL20010117ABP	75 33 34	117	24.9	Advent Believers Broadcast			
222D	AP222	APP C	248.8	75.94	42 37 13	0.010	509	4.6	55.50	51.41	
Groton		NY	68.8	BNPFT20030317KMG	76 24 03	62	19.9	Calvary Chapel Of The Fing			
220A	WRVN	LIC NCX	39.7	39.47	43 08 31	1.900	213	11.9	29.23	27.39	
Uti ca		NY	219.7	BLED20020220ABC	75 13 36	18	0.2	State University Of New Yo			
222B	WFLY	LIC CN	101.1	128.57	42 38 16	17.000	500	48.5	17.20	55.09	
Troy		NY	281.1	BLH19871015KA	73 59 55	106	25.0	6 Johnson Road Licenses, I			
224A	WXUR	LIC CN	62.2	46.76	43 03 50	3.000	385	23.5	37.77	23.01	
Herki mer		NY	242.2	BLH19790418AA	75 01 44	94	0.2	Arjuna Broadcasting Corp.			
221B1	WSENF	LIC CN	298.2	73.84	43 10 46	25.000	222	43.0	9.10	20.20	
Bal dwi nsvi lle		NY	118.2	BLH19880615KB	76 20 19	91	10.6	Buckley Broadcasting Corp			
222D	AP222	APP DC	238.4	92.59	42 25 47	0.028	244	4.1	73.79	69.50	
I thaca		NY	58.4	BNPFT20030312AMG	76 29 47	-72	19.0	Sara R Johnson			
222D	AP222	APP DC	238.4	92.59	42 25 47	0.028	244	4.1	73.79	69.50	
I thaca		NY	58.4	BNPFT20030317LWD	76 29 47	-72	19.0	Daniel Pel tz			
223D	AP223	APP C	294.5	48.68	43 02 57	0.038	204	4.4	35.98	35.24	
Lyndon		NY	114.5	BNPFT20030317LWP	76 04 53	-39	9.1	Syracuse Community Radi o,			
219A	WSQCFM	LIC EN	140.6	63.97	42 25 27	2.300	661	35.0	55.36	28.70	
Oneonta		NY	320.6	BLED19920512KA	75 02 33	255	0.2	Wskg Public Telecom. Coun			
224D	AP224	APP C	281.8	47.76	42 57 20	0.010	436	5.2	41.38	42.32	
Syracuse		NY	101.8	BNPFT20030311AUS	76 06 37	80	0.2	Fami ly Life Mini stries, In			
224D	AP224	APP C	292.5	55.48	43 03 30	0.055	180	4.8	48.59	50.43	
Syracuse		NY	112.5	BNPFT20030317BQA	76 10 00	5	0.2	Educational Media Foundati			
219B1	WICB	LIC CN	237.7	93.10	42 25 07	5.500	386	15.4	85.77	77.49	
I thaca		NY	57.7	BLED1490	76 29 39	14	0.2	I thaca Col lege			
223A	WKGBFM	CP CX	197.2	87.90	42 06 48	1.450	586	31.4	33.02	45.92	
Conklin		NY	17.2	BPH20010130ABJ	75 51 09	254	10.6	Clear Channel Broadcasting			
221A	WDLAFM	LIC CN	155.2	89.71	42 08 10	0.690	754	25.2	45.34	55.68	
Wal ton		NY	335.2	BLH19850207KS	75 04 48	230	8.8	Banjo Communications Group			
223A	WKGBFM	LIC CN	188.5	91.72	42 03 10	1.300	625	27.1	42.97	53.45	
Conklin		NY	8.5	BLH19910125KA	75 42 07	198	11.1	Clear Channel Broadcasting			
219D	W219CT	LIC C	13.4	66.12	43 26 53	0.010	495	7.9	57.89	57.96	
Boonvi lle		NY	193.4	BLFT20011210ABD	75 20 48	187	0.2	The St. Lawrence Uni versit			
223A	ALLO	VAC	25.8	104.16	43 42 42	6.000	0	15.8	73.03	77.52	
Old Forge		NY	205.8	RM9619	74 58 24	-520	10.9				

***Affixed to 'IN' or 'Out' values = site inside protected contour.
ERP and HAAT are on direct line to and from reference station. "<" = Contour Overlap

HOW TO READ THE FM COMPUTER PRINT-OUT

The computer printout should be self-explanatory for the most part. The parameters of the station being checked, (reference station) are printed in the heading. The 60 dBu protected contour is predicted from the Commission's F(50-50) table, while the 40, 54, 80 and 100 dBu contours are interference contours derived from the Commission's F(50-10) table. Contour distances are in kilometers and are predicted using spline interpolation from data points identical to those published in Report No. RS 76-01 by Gary C. Kalagian. Critical contour distances are determined using the Commission's TVFMINT FORTRAN subroutine. When interference contour distances are less than 16 kilometers the F(50-50) tables are used. If signal contour distances are less than 1.6 km the free-space equation is used.

The column listed "** IN **" is the sum of the reference station's 60 dBu protected contour and the data file station's interference contour subtracted from the distance between the stations. (All distances are derived by the method detailed in Sec. 73.208 of the Rules and Regulations as amended in Docket 80-90.) Therefore, the column is a measure of incoming interference. Negative distances in this column indicate the presence of interference. Listed antenna heights are the average heights of eight standard radials as found in the Commission's records unless otherwise noted, in which case the specific antenna heights and the DA power, if applicable, along the straight line azimuths between the reference station and the database station are used and visa versa. The column labeled "** OUT **" shows the distance in kilometers of overlap or clearance between the reference station's interference contour and the database station's protected contour. Negative distance figures in this column indicate outgoing overlap interference.

Under the "AZIMUTH" column, the first row of numbers indicate the bearings from True North of the data base stations in relationship with the reference station, while the numbers in the second row indicate the reverse bearings from the database station to the reference station.

The columns labeled "INT" and "PRO" hold the distance in kilometers of the appropriate interference contour and the protected contour of a data base station.

For I.F. relationships the "IN" and "OUT" columns change their significance. The letter "R" stands for the minimum **required** distance in kilometers, while the letter "M" in the next column follows the **available clear space** separation in kilometers. Minimum separation distances when displayed are taken from Sec 73.207 of the rules as amended. Canadian and Mexican separation distances, U/D ratios and protected contour values are from the US/Mexican Working Agreement and the US/Canada Working Agreement".

The first three letters of the "TYPE" column identify the current FCC status of the stations. The fourth letter will be a "D" if the facility is directional. "Z" indicates a 73.215 directional. An "N" indicates it is a 73.215 station that operates omni. The fifth letter will be an E, H or V depending on the type of antenna polarization. The sixth letter will be a "Y" if the antenna uses beam tilt or an "X" if the commission is not sure, otherwise it will be an "N".

Relationship with AP223 - Oneida

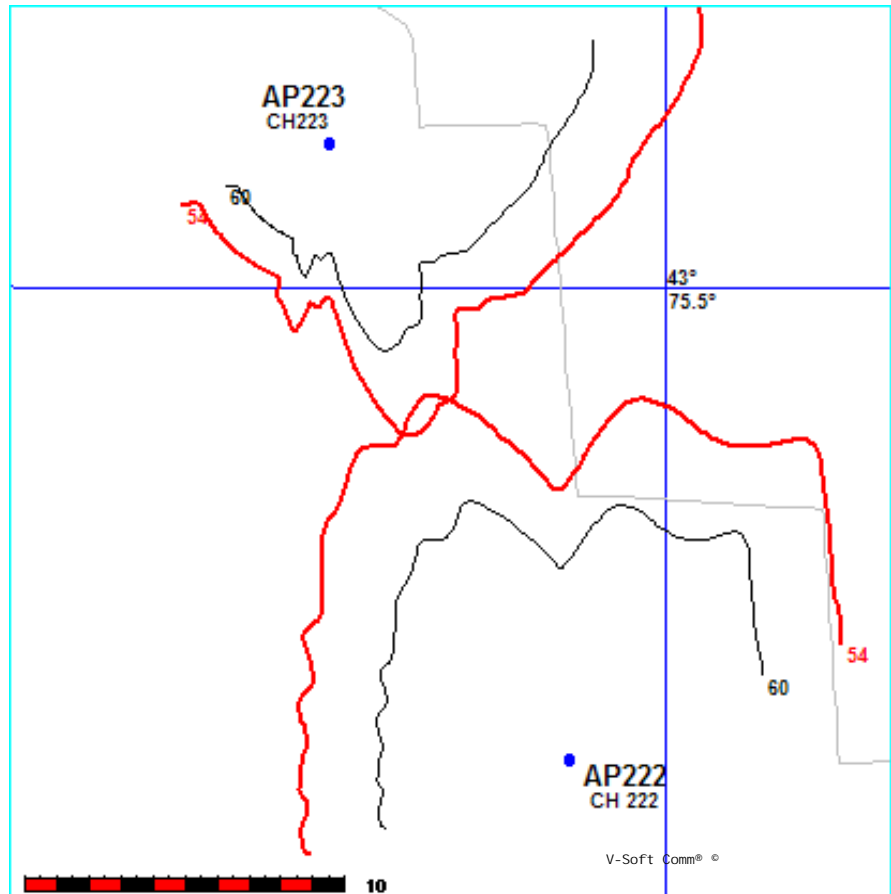
FMCONT Allocation Study

07-26-2003

AP222 CH 222 D
.01 kW 545M COR
Prot. = 60 dBu
Intef. = 54 dBu

AP223 CH 223 D
.01kW, 430 M COR
Prot. = 60 dBu
Intef. = 54 dBu
File # BNPFT20030313AXE

1: 250,000



07-26-2003 30 Sec. Terrain Data

AP223 BNPFT20030313AXE
Channel = 223D
Max ERP = 0.01 kW
RCAMSL = 430 M
N. Lat = 43 02 26
W. Lng = 75 37 46

AP222
Channel = 222D
Max ERP = 0.01 kW
RCAMSL = 545 M
N. Lat = 425210
W. Lng = 753214

Protected
60 dBu

Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
128.0	000.0100	0086.8	005.4	348.3	000.0100	0153.0	016.0	46.4
129.0	000.0100	0084.8	005.4	347.9	000.0100	0153.0	016.0	46.4
130.0	000.0100	0082.5	005.3	347.5	000.0100	0153.0	016.0	46.4
131.0	000.0100	0080.1	005.2	347.1	000.0100	0160.3	016.0	46.9
132.0	000.0100	0077.7	005.1	346.6	000.0100	0160.3	016.0	46.9
133.0	000.0100	0075.7	005.1	346.2	000.0100	0167.7	016.0	47.3
134.0	000.0100	0074.0	005.0	345.9	000.0100	0167.7	016.0	47.3
135.0	000.0100	0072.9	005.0	345.5	000.0100	0167.7	016.0	47.3
136.0	000.0100	0072.4	004.9	345.2	000.0100	0174.8	016.0	47.7
137.0	000.0100	0072.7	005.0	345.0	000.0100	0174.8	015.9	47.7
138.0	000.0100	0072.7	005.0	344.7	000.0100	0174.8	015.9	47.8
139.0	000.0100	0071.6	004.9	344.4	000.0100	0182.1	015.9	48.1
140.0	000.0100	0069.4	004.8	344.0	000.0100	0182.1	015.9	48.1
141.0	000.0100	0066.9	004.8	343.6	000.0100	0182.1	016.0	48.1
142.0	000.0100	0065.5	004.7	343.2	000.0100	0189.5	016.0	48.4
143.0	000.0100	0066.3	004.7	343.0	000.0100	0189.5	015.9	48.4
144.0	000.0100	0069.3	004.8	342.8	000.0100	0189.5	015.8	48.5
145.0	000.0100	0074.3	005.0	342.7	000.0100	0189.5	015.6	48.7
146.0	000.0100	0079.6	005.2	342.6	000.0100	0189.5	015.4	48.9
147.0	000.0100	0083.3	005.3	342.4	000.0100	0196.4	015.3	49.3
148.0	000.0100	0085.8	005.4	342.2	000.0100	0196.4	015.2	49.4
149.0	000.0100	0090.0	005.5	341.9	000.0100	0196.4	015.0	49.5
150.0	000.0100	0096.8	005.8	341.7	000.0100	0196.4	014.8	49.6
151.0	000.0100	0104.3	006.0	341.5	000.0100	0196.4	014.5	49.8
152.0	000.0100	0110.0	006.1	341.2	000.0100	0203.1	014.4	50.3
153.0	000.0100	0113.2	006.2	340.8	000.0100	0203.1	014.3	50.5
154.0	000.0100	0114.2	006.3	340.4	000.0100	0209.4	014.2	50.8
155.0	000.0100	0114.3	006.3	340.0	000.0100	0209.4	014.2	50.8
156.0	000.0100	0114.1	006.3	339.5	000.0100	0209.4	014.2	50.8
157.0	000.0100	0115.1	006.3	339.1	000.0100	0214.1	014.2	51.0
158.0	000.0100	0118.5	006.4	338.7	000.0100	0214.1	014.1	51.1
159.0	000.0100	0123.0	006.5	338.2	000.0100	0216.1	014.0	51.3
160.0	000.0100	0126.3	006.5	337.7	000.0100	0216.1	013.9	51.4
161.0	000.0100	0128.2	006.6	337.3	000.0100	0214.2	013.9	51.4
162.0	000.0100	0130.0	006.6	336.8	000.0100	0214.2	013.8	51.4
163.0	000.0100	0131.6	006.7	336.3	000.0100	0209.3	013.8	51.3

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
164.0	000.0100	0132.3	006.7	335.8	000.0100	0209.3	013.8	51.3
165.0	000.0100	0131.0	006.6	335.3	000.0100	0203.0	013.9	50.9
166.0	000.0100	0126.5	006.5	334.9	000.0100	0203.0	014.0	50.8
167.0	000.0100	0119.3	006.4	334.6	000.0100	0203.0	014.2	50.6
168.0	000.0100	0112.2	006.2	334.4	000.0100	0196.6	014.4	50.0
169.0	000.0100	0105.4	006.0	334.2	000.0100	0196.6	014.6	49.8
170.0	000.0100	0097.8	005.8	334.0	000.0100	0196.6	014.8	49.5
171.0	000.0100	0089.8	005.5	333.9	000.0100	0196.6	015.1	49.5
172.0	000.0100	0081.5	005.3	333.9	000.0100	0196.6	015.4	49.2
173.0	000.0100	0074.4	005.0	333.9	000.0100	0196.6	015.6	49.0
174.0	000.0100	0066.4	004.7	333.9	000.0100	0196.6	015.9	48.8
175.0	000.0100	0058.4	004.5	334.0	000.0100	0196.6	016.2	48.5
176.0	000.0100	0050.4	004.1	334.2	000.0100	0196.6	016.6	48.2
177.0	000.0100	0044.3	003.8	334.3	000.0100	0196.6	016.8	48.0
178.0	000.0100	0038.8	003.6	334.5	000.0100	0196.6	017.1	47.8
179.0	000.0100	0035.5	003.4	334.5	000.0100	0203.0	017.3	47.9
180.0	000.0100	0035.5	003.4	334.3	000.0100	0196.6	017.3	47.6
181.0	000.0100	0035.6	003.4	334.2	000.0100	0196.6	017.3	47.6
182.0	000.0100	0036.4	003.5	333.9	000.0100	0196.6	017.3	47.6
183.0	000.0100	0038.1	003.5	333.6	000.0100	0196.6	017.3	47.6
184.0	000.0100	0039.5	003.6	333.3	000.0100	0190.4	017.3	47.4
185.0	000.0100	0038.6	003.6	333.2	000.0100	0190.4	017.3	47.3
186.0	000.0100	0038.0	003.5	333.1	000.0100	0190.4	017.4	47.3
187.0	000.0100	0037.8	003.5	333.0	000.0100	0190.4	017.4	47.2
188.0	000.0100	0042.5	003.8	332.3	000.0100	0185.2	017.3	47.1

Hamilton Translator

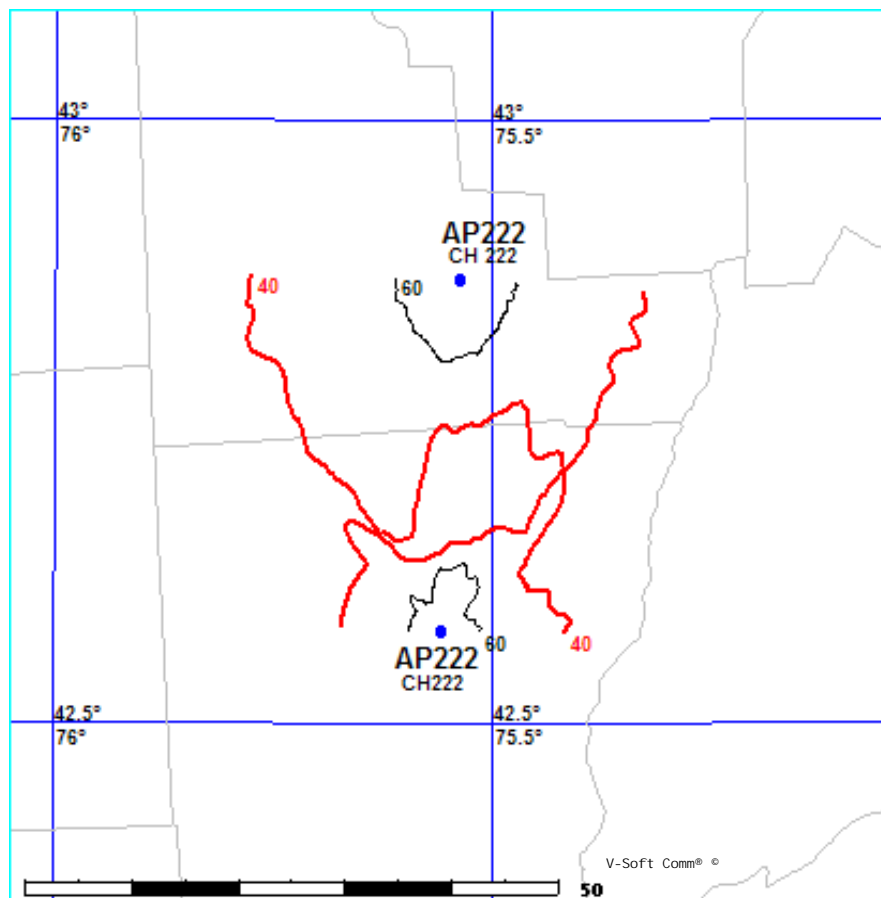
FMCONT Allocation Study

07-26-2003

AP222 CH 222 D
.01 kW 545M COR
Prot. = 60 dBu
Intef. = 40 dBu

AP222 CH 222 L1
.006579kW, 512 M COR
Prot. = 60 dBu
Intef. = 40 dBu
File # = BNPL20010117ABP

1: 750,000



07-26-2003 30 Sec. Terrain Data

AP222 BNPL20010117ABP
 Channel = 222L1
 Max ERP = 0.006579 kW
 RCAMSL = 512 M
 N. Lat = 42 34 33
 W. Lng = 75 33 34

AP222
 Channel = 222D
 Max ERP = 0.01 kW
 RCAMSL = 545 M
 N. Lat = 425210
 W. Lng = 753214

Protected
 60 dBu

Interfering
 40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
333.0	000.0066	0032.4	002.9	186.0	000.0100	0174.4	030.2	37.2
334.0	000.0066	0026.0	002.9	185.8	000.0100	0174.4	030.2	37.2
335.0	000.0066	0019.1	002.9	185.7	000.0100	0174.4	030.2	37.2
336.0	000.0066	0013.5	002.9	185.7	000.0100	0174.4	030.2	37.2
337.0	000.0066	0011.1	002.9	185.6	000.0100	0174.4	030.1	37.3
338.0	000.0066	0010.7	002.9	185.5	000.0100	0171.4	030.1	37.1
339.0	000.0066	0011.1	002.9	185.4	000.0100	0171.4	030.1	37.1
340.0	000.0066	0012.0	002.9	185.3	000.0100	0171.4	030.1	37.1
341.0	000.0066	0014.7	002.9	185.2	000.0100	0171.4	030.0	37.2
342.0	000.0066	0018.4	002.9	185.2	000.0100	0171.4	030.0	37.2
343.0	000.0066	0023.3	002.9	185.1	000.0100	0171.4	030.0	37.2
344.0	000.0066	0028.1	002.9	185.0	000.0100	0171.4	030.0	37.2
345.0	000.0066	0031.3	002.9	184.9	000.0100	0171.4	029.9	37.2
346.0	000.0066	0034.6	003.0	184.9	000.0100	0171.4	029.8	37.3
347.0	000.0066	0038.5	003.2	184.9	000.0100	0171.4	029.6	37.4
348.0	000.0066	0043.3	003.4	184.9	000.0100	0171.4	029.4	37.6
349.0	000.0066	0048.6	003.6	184.9	000.0100	0171.4	029.1	37.7
350.0	000.0066	0053.3	003.8	184.9	000.0100	0171.4	028.9	37.8
351.0	000.0066	0059.7	004.1	184.9	000.0100	0171.4	028.7	38.0
352.0	000.0066	0065.2	004.2	184.8	000.0100	0171.4	028.5	38.1
353.0	000.0066	0073.1	004.5	184.8	000.0100	0171.4	028.3	38.2
354.0	000.0066	0080.5	004.7	184.7	000.0100	0171.4	028.0	38.4
355.0	000.0066	0088.0	004.9	184.6	000.0100	0171.4	027.8	38.5
356.0	000.0066	0095.5	005.1	184.5	000.0100	0171.4	027.6	38.7
357.0	000.0066	0103.1	005.3	184.4	000.0100	0167.0	027.4	38.6
358.0	000.0066	0108.2	005.5	184.2	000.0100	0167.0	027.2	38.7
359.0	000.0066	0114.0	005.6	184.1	000.0100	0167.0	027.1	38.8
000.0	000.0066	0119.9	005.8	183.9	000.0100	0167.0	026.9	38.9
001.0	000.0066	0121.9	005.8	183.7	000.0100	0167.0	026.9	38.9
002.0	000.0066	0119.3	005.7	183.4	000.0100	0161.5	026.9	38.6
003.0	000.0066	0116.9	005.7	183.2	000.0100	0161.5	027.0	38.5
004.0	000.0066	0114.1	005.6	183.0	000.0100	0161.5	027.0	38.5
005.0	000.0066	0116.4	005.7	182.8	000.0100	0161.5	027.0	38.5
006.0	000.0066	0119.4	005.8	182.6	000.0100	0161.5	026.9	38.6
007.0	000.0066	0122.0	005.8	182.4	000.0100	0156.5	026.9	38.3
008.0	000.0066	0124.2	005.9	182.1	000.0100	0156.5	026.8	38.3

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
009.0	000.0066	0123.9	005.8	181.9	000.0100	0156.5	026.9	38.3
010.0	000.0066	0123.2	005.8	181.7	000.0100	0156.5	026.9	38.3
011.0	000.0066	0124.3	005.9	181.5	000.0100	0156.0	026.9	38.3
012.0	000.0066	0128.6	005.9	181.2	000.0100	0156.0	026.8	38.3
013.0	000.0066	0133.6	006.0	181.0	000.0100	0156.0	026.7	38.4
014.0	000.0066	0138.6	006.2	180.7	000.0100	0156.0	026.6	38.4
015.0	000.0066	0141.6	006.2	180.5	000.0100	0157.2	026.6	38.5
016.0	000.0066	0144.3	006.3	180.2	000.0100	0157.2	026.6	38.6
017.0	000.0066	0149.9	006.4	179.9	000.0100	0157.2	026.5	38.6
018.0	000.0066	0156.8	006.5	179.6	000.0100	0157.2	026.4	38.7
019.0	000.0066	0161.2	006.6	179.3	000.0100	0158.4	026.4	38.8
020.0	000.0066	0162.0	006.6	179.0	000.0100	0158.4	026.4	38.8
021.0	000.0066	0160.2	006.6	178.8	000.0100	0158.4	026.5	38.7
022.0	000.0066	0155.8	006.5	178.7	000.0100	0158.4	026.6	38.6
023.0	000.0066	0149.0	006.4	178.6	000.0100	0158.4	026.8	38.5
024.0	000.0066	0140.7	006.2	178.5	000.0100	0158.4	027.0	38.4
025.0	000.0066	0132.6	006.0	178.5	000.0100	0156.4	027.2	38.1
026.0	000.0066	0125.1	005.9	178.4	000.0100	0156.4	027.4	38.0
027.0	000.0066	0118.2	005.7	178.4	000.0100	0156.4	027.5	37.9
028.0	000.0066	0113.8	005.6	178.3	000.0100	0156.4	027.7	37.8
029.0	000.0066	0112.8	005.6	178.2	000.0100	0156.4	027.7	37.7
030.0	000.0066	0114.5	005.6	177.9	000.0100	0156.4	027.8	37.7
031.0	000.0066	0118.2	005.7	177.7	000.0100	0156.4	027.7	37.7
032.0	000.0066	0123.7	005.8	177.4	000.0100	0154.2	027.7	37.6
033.0	000.0066	0129.5	006.0	177.1	000.0100	0154.2	027.7	37.7