

# Interference Analysis Exhibit

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## Overlap Requirements

Page #3 of this exhibit is a computer generated channel study showing the relationship of the modified translator and adjacent stations. Page #4 is an explanation of the computer generated channel study. Pages #5-11 demonstrate the translator's compliance with respect to Canada.

According to 47 C.F.R. §74.1204(a), translators, such as the one being modified herein, are required to protect all existing FM stations from interference due to overlap of their protected contour with the interfering contour of the new station. On page #3 the numbers in the column labeled “\*OUT\*” are of relevance as an indication of overlap or close spacing caused by the modified translator, there is no requirement that interfering contours from the existing station (labeled “\*IN\*”) not intersect the service contour of the new translator. Page #3 of this exhibit also demonstrates that the modified translator's F(50-10) interfering contour would not overlap that of any authorized on-the-air station and is in complete compliance with the 47 C.F.R. §74.1204.

Given the lack of interference, a waiver of 47 C.F.R. §74.1204 is relevant.

Utica, New York

W201BS

REFERENCE CH# 201D - 88.1 MHz, Pwr= 0.01 kW, HAAT=133.0 M, COR= 379 M DISPLAY DATES  
43 08 34 N Average Protected F(50-50)= 6.65 km DATA 09-12-03  
75 10 33 W Ave. F(50-10) 40 dBu= 22.2 54 dBu= 9.4 80 dBu= 1.7 100 dBu= .2 SEARCH 12-19-03

CH CITY	CALL	TYPE STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	COR(M) INT(km)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
204A Clinton	WHCLFM	LIC CN NY	241.5 61.5	21.38 BLED19840427CI	43 03 04 75 24 24	0.270 144	299 0.2	15.8 Trustees Of Hamilton Colle	11.36	5.34
Specially Negotiated Short-Spaced Allotment with respect to Canada										
201D Lowville	W201CB	LIC CN NY	340.0 160.0	78.80 BLFT19990528UA	43 48 31 75 30 41	0.010 65	435 20.0	4.7 The St. Lawrence Universit	58.07	54.09
Translator for WSLJ, Watertown, NY										
202B Syracuse	WAER.C	CP DCN NY	261.4 81.4	78.75 BMPED19930802IA	43 02 01 76 07 53	50.000 119	282 12.4	47.9 Syracuse University	-3.35<	18.42
Proposed to Canada as Class B 950911										
202B1 Syracuse	WAER	LIC HN NY	261.4 81.4	78.75 BLED1354	43 02 01 76 07 53	6.000 89	252 12.4	26.8 Syracuse University	28.46	39.48
To channel 202B. Horizontally polarized only										
204D Old Forge	W204BJ	LIC C NY	14.8 194.8	64.19 BLFT20000427ACB	43 42 04 74 58 20	0.019 44	616 0.2	4.5 The St. Lawrence Universit	58.21	59.46
201B Brockville	ALLO		348.1 168.1	170.12 RM	44 38 25 75 37 08	50.000 -94	0 28.2	36.1	49.08	105.83
202B1 Loudonville	WVCRFM	LIC C NY	120.0 300.0	111.18 BLED20010404AAV	42 38 13 74 00 05	2.800 93	496 8.6	23.0 Siena College	70.61	79.65
201B1 Webster	WFRW	LIC DEN NY	267.7 87.7	156.26 BLED19880721KC	43 04 18 77 05 35	4.078 119	255 29.3	28.0 Family Stations, Inc.	63.66	98.95
SPECIALLY NEGOTD. SHORT-SPACED ASSIGNMENT LTD TO 20KW @ 103M										
201A Liberty	WGWR	LIC CN NY	167.0 347.0	151.31 BLED19971126KD	41 48 55 74 45 48	0.060 87	669 24.1	8.5 Sound Of Life, Inc.	115.94	118.70
Proposed to Canada 960726-Accepted by Canada 961016										
201D Lansing	W201CD	LIC DC NY	235.6 55.6	135.59 BLFT20021023AAM	42 26 49 76 32 15	0.223 1	324 29.1	6.9 Ithaca Community Radio	103.80	99.61
201D Binghamton	W201CP	LIC DV NY	208.1 28.1	135.69 BLFT20020311ABM	42 03 49 75 57 02	0.157 286	572 25.4	19.7 Family Life Ministries, In	67.01	90.61
06Z1C Schenectady	WRGB	LI HN NY	119.9 299.9	111.59 BLCT2492	42 38 12 73 59 45	93.300 152	555 147.9	88.2 Freedom Broadcasting Of Ne	To Grd B=	23.36

ERP and HAAT are on direct line to and from reference station. "<" = Contour Overlap

## I.F. Analysis

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FM translator stations and booster stations operating with less than 100 watts ERP will be treated as class D stations and will not be subject to intermediate frequency separation requirements (see 47 C.F.R. §74.1204 (g)). Therefore, the I.F. relationships of this exhibit can be disregarded.

## Guide to Interpretation of Interference Checks

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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/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”.

## Canadian Compliance Showing

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According to 47 C.F.R. §74.1235(d)(3), applications for translator or booster stations within 320 km of the Canadian border may employ an ERP up to a maximum of 250 watts, as specified in §74.1235(a) and (b). The distance to the 34 dBu interfering contour may not exceed 60 km in any direction. Also, according to the U.S./Canada FM Working Arrangement, the concurrence by the other country is not required for FM translators where the 34 dBu interfering contour does not extend beyond the border.

The following pages demonstrate that the proposed translator's 34 dBu F(50,10) interference contour reaches a maximum distance of 38.45 km at the radial 143, with an ERP of 10 watts, and does not extend beyond the Canadian border.

Canadian Compliance Showing  
Utica, New York

ERP = .01 kw                      Distance to Canadian Border = 141 km  
N. Lat. = 43 08 34      W. Lng. = 75 10 33

Azi.	AV EL	HAAT	ERP kW	dBk	Field	F(50-10) Distance to 34 dBu Contour in km
000	272.3	106.7	0.0100	-20.00	1.000	26.60
001	271.6	107.4	0.0100	-20.00	1.000	26.68
002	272.3	106.7	0.0100	-20.00	1.000	26.60
003	271.8	107.2	0.0100	-20.00	1.000	26.65
004	271.4	107.6	0.0100	-20.00	1.000	26.70
005	270.8	108.2	0.0100	-20.00	1.000	26.77
006	270.7	108.3	0.0100	-20.00	1.000	26.78
007	273.8	105.2	0.0100	-20.00	1.000	26.43
008	278.2	100.8	0.0100	-20.00	1.000	25.91
009	282.9	96.1	0.0100	-20.00	1.000	25.33
010	284.6	94.4	0.0100	-20.00	1.000	25.12
011	284.6	94.4	0.0100	-20.00	1.000	25.12
012	285.5	93.5	0.0100	-20.00	1.000	25.01
013	285.5	93.5	0.0100	-20.00	1.000	25.00
014	286.8	92.2	0.0100	-20.00	1.000	24.84
015	287.1	91.9	0.0100	-20.00	1.000	24.80
016	287.0	92.0	0.0100	-20.00	1.000	24.81
017	287.8	91.2	0.0100	-20.00	1.000	24.72
018	287.9	91.1	0.0100	-20.00	1.000	24.69
019	288.1	90.9	0.0100	-20.00	1.000	24.67
020	288.2	90.8	0.0100	-20.00	1.000	24.66
021	287.6	91.4	0.0100	-20.00	1.000	24.74
022	286.8	92.2	0.0100	-20.00	1.000	24.83
023	286.7	92.3	0.0100	-20.00	1.000	24.86
024	287.5	91.5	0.0100	-20.00	1.000	24.75
025	288.6	90.4	0.0100	-20.00	1.000	24.60
026	288.0	91.0	0.0100	-20.00	1.000	24.68
027	287.9	91.1	0.0100	-20.00	1.000	24.70
028	289.0	90.0	0.0100	-20.00	1.000	24.55
029	290.1	88.9	0.0100	-20.00	1.000	24.41
030	291.9	87.1	0.0100	-20.00	1.000	24.18
031	293.5	85.5	0.0100	-20.00	1.000	23.96
032	296.2	82.8	0.0100	-20.00	1.000	23.59
033	297.7	81.3	0.0100	-20.00	1.000	23.39
034	299.7	79.3	0.0100	-20.00	1.000	23.12
035	301.2	77.8	0.0100	-20.00	1.000	22.91
036	303.1	75.9	0.0100	-20.00	1.000	22.65
037	303.3	75.7	0.0100	-20.00	1.000	22.62
038	302.6	76.4	0.0100	-20.00	1.000	22.71
039	302.5	76.5	0.0100	-20.00	1.000	22.73
040	303.0	76.0	0.0100	-20.00	1.000	22.66
041	303.9	75.1	0.0100	-20.00	1.000	22.54
042	304.5	74.5	0.0100	-20.00	1.000	22.44
043	302.9	76.1	0.0100	-20.00	1.000	22.67
044	300.2	78.8	0.0100	-20.00	1.000	23.05
045	297.4	81.6	0.0100	-20.00	1.000	23.43
046	298.8	80.2	0.0100	-20.00	1.000	23.24
047	301.7	77.3	0.0100	-20.00	1.000	22.84
048	305.1	73.9	0.0100	-20.00	1.000	22.36
049	306.4	72.6	0.0100	-20.00	1.000	22.19
050	308.5	70.5	0.0100	-20.00	1.000	21.89
051	309.4	69.6	0.0100	-20.00	1.000	21.76
052	311.9	67.1	0.0100	-20.00	1.000	21.40
053	313.7	65.3	0.0100	-20.00	1.000	21.15

054	317.5	61.5	0.0100	-20.00	1.000	20.59
055	321.5	57.5	0.0100	-20.00	1.000	19.97
056	324.6	54.4	0.0100	-20.00	1.000	19.43
057	326.5	52.5	0.0100	-20.00	1.000	19.08
058	327.5	51.5	0.0100	-20.00	1.000	18.88
059	329.2	49.8	0.0100	-20.00	1.000	18.53
060	329.4	49.6	0.0100	-20.00	1.000	18.48
061	329.3	49.7	0.0100	-20.00	1.000	18.51
062	328.1	50.9	0.0100	-20.00	1.000	18.75
063	326.5	52.5	0.0100	-20.00	1.000	19.06
064	326.1	52.9	0.0100	-20.00	1.000	19.14
065	325.2	53.8	0.0100	-20.00	1.000	19.32
066	324.3	54.7	0.0100	-20.00	1.000	19.48
067	324.2	54.8	0.0100	-20.00	1.000	19.50
068	325.6	53.4	0.0100	-20.00	1.000	19.25
069	328.1	50.9	0.0100	-20.00	1.000	18.75
070	328.9	50.1	0.0100	-20.00	1.000	18.59
071	329.4	49.6	0.0100	-20.00	1.000	18.50
072	329.0	50.0	0.0100	-20.00	1.000	18.57
073	328.1	50.9	0.0100	-20.00	1.000	18.75
074	328.5	50.5	0.0100	-20.00	1.000	18.67
075	329.7	49.3	0.0100	-20.00	1.000	18.43
076	330.4	48.6	0.0100	-20.00	1.000	18.28
077	328.3	50.7	0.0100	-20.00	1.000	18.72
078	323.7	55.3	0.0100	-20.00	1.000	19.60
079	318.8	60.2	0.0100	-20.00	1.000	20.39
080	317.7	61.3	0.0100	-20.00	1.000	20.55
081	318.5	60.5	0.0100	-20.00	1.000	20.44
082	322.3	56.7	0.0100	-20.00	1.000	19.84
083	325.3	53.7	0.0100	-20.00	1.000	19.29
084	330.1	48.9	0.0100	-20.00	1.000	18.35
085	337.2	41.8	0.0100	-20.00	1.000	16.76
086	343.8	35.2	0.0100	-20.00	1.000	15.25
087	347.3	31.7	0.0100	-20.00	1.000	14.50
088	349.6	29.4	0.0100	-20.00	1.000	14.16
089	350.5	28.5	0.0100	-20.00	1.000	14.16
090	352.5	26.5	0.0100	-20.00	1.000	14.16
091	352.1	26.9	0.0100	-20.00	1.000	14.16
092	350.7	28.3	0.0100	-20.00	1.000	14.16
093	350.5	28.5	0.0100	-20.00	1.000	14.16
094	349.4	29.6	0.0100	-20.00	1.000	14.16
095	346.9	32.1	0.0100	-20.00	1.000	14.59
096	347.2	31.8	0.0100	-20.00	1.000	14.52
097	345.8	33.2	0.0100	-20.00	1.000	14.83
098	342.2	36.8	0.0100	-20.00	1.000	15.60
099	337.8	41.2	0.0100	-20.00	1.000	16.63
100	333.1	45.9	0.0100	-20.00	1.000	17.69
101	324.9	54.1	0.0100	-20.00	1.000	19.37
102	316.2	62.8	0.0100	-20.00	1.000	20.78
103	312.0	67.0	0.0100	-20.00	1.000	21.39
104	314.0	65.0	0.0100	-20.00	1.000	21.10
105	315.2	63.8	0.0100	-20.00	1.000	20.93
106	313.8	65.2	0.0100	-20.00	1.000	21.12
107	306.9	72.1	0.0100	-20.00	1.000	22.12
108	301.4	77.6	0.0100	-20.00	1.000	22.89
109	297.6	81.4	0.0100	-20.00	1.000	23.41
110	293.8	85.2	0.0100	-20.00	1.000	23.92
111	291.4	87.6	0.0100	-20.00	1.000	24.24
112	291.1	87.9	0.0100	-20.00	1.000	24.27
113	289.0	90.0	0.0100	-20.00	1.000	24.56
114	284.1	94.9	0.0100	-20.00	1.000	25.18
115	280.2	98.8	0.0100	-20.00	1.000	25.67
116	280.3	98.7	0.0100	-20.00	1.000	25.66
117	282.1	96.9	0.0100	-20.00	1.000	25.44

118	283.3	95.7	0.0100	-20.00	1.000	25.28
119	279.3	99.7	0.0100	-20.00	1.000	25.78
120	273.4	105.6	0.0100	-20.00	1.000	26.47
121	269.6	109.4	0.0100	-20.00	1.000	26.90
122	266.8	112.2	0.0100	-20.00	1.000	27.21
123	260.7	118.3	0.0100	-20.00	1.000	27.82
124	252.4	126.6	0.0100	-20.00	1.000	28.60
125	243.8	135.2	0.0100	-20.00	1.000	29.39
126	237.9	141.1	0.0100	-20.00	1.000	29.96
127	231.8	147.2	0.0100	-20.00	1.000	30.56
128	225.3	153.7	0.0100	-20.00	1.000	31.21
129	217.8	161.2	0.0100	-20.00	1.000	31.98
130	209.9	169.1	0.0100	-20.00	1.000	32.79
131	202.4	176.6	0.0100	-20.00	1.000	33.52
132	196.4	182.6	0.0100	-20.00	1.000	34.05
133	191.7	187.3	0.0100	-20.00	1.000	34.45
134	187.6	191.4	0.0100	-20.00	1.000	34.80
135	184.6	194.4	0.0100	-20.00	1.000	35.04
136	181.0	198.0	0.0100	-20.00	1.000	35.34
137	174.4	204.6	0.0100	-20.00	1.000	35.87
138	163.0	216.0	0.0100	-20.00	1.000	36.75
139	151.8	227.2	0.0100	-20.00	1.000	37.56
140	145.4	233.6	0.0100	-20.00	1.000	38.00
141	141.1	237.9	0.0100	-20.00	1.000	38.28
142	139.5	239.5	0.0100	-20.00	1.000	38.38
143	138.4	240.6	0.0100	-20.00	1.000	38.45
144	138.7	240.3	0.0100	-20.00	1.000	38.43
145	140.2	238.8	0.0100	-20.00	1.000	38.33
146	142.7	236.3	0.0100	-20.00	1.000	38.17
147	145.0	234.0	0.0100	-20.00	1.000	38.02
148	147.2	231.8	0.0100	-20.00	1.000	37.87
149	151.2	227.8	0.0100	-20.00	1.000	37.60
150	157.1	221.9	0.0100	-20.00	1.000	37.18
151	164.7	214.3	0.0100	-20.00	1.000	36.62
152	178.0	201.0	0.0100	-20.00	1.000	35.59
153	190.0	189.0	0.0100	-20.00	1.000	34.59
154	198.5	180.5	0.0100	-20.00	1.000	33.87
155	204.5	174.5	0.0100	-20.00	1.000	33.32
156	208.2	170.8	0.0100	-20.00	1.000	32.96
157	212.2	166.8	0.0100	-20.00	1.000	32.56
158	215.7	163.3	0.0100	-20.00	1.000	32.20
159	219.3	159.7	0.0100	-20.00	1.000	31.82
160	224.6	154.4	0.0100	-20.00	1.000	31.28
161	227.4	151.6	0.0100	-20.00	1.000	31.00
162	229.4	149.6	0.0100	-20.00	1.000	30.80
163	229.0	150.0	0.0100	-20.00	1.000	30.84
164	226.8	152.2	0.0100	-20.00	1.000	31.06
165	222.9	156.1	0.0100	-20.00	1.000	31.46
166	222.7	156.3	0.0100	-20.00	1.000	31.47
167	224.1	154.9	0.0100	-20.00	1.000	31.34
168	229.7	149.3	0.0100	-20.00	1.000	30.77
169	236.5	142.5	0.0100	-20.00	1.000	30.10
170	242.2	136.8	0.0100	-20.00	1.000	29.55
171	248.1	130.9	0.0100	-20.00	1.000	28.99
172	255.0	124.0	0.0100	-20.00	1.000	28.36
173	259.3	119.7	0.0100	-20.00	1.000	27.96
174	263.4	115.6	0.0100	-20.00	1.000	27.55
175	266.2	112.8	0.0100	-20.00	1.000	27.27
176	270.4	108.6	0.0100	-20.00	1.000	26.81
177	274.2	104.8	0.0100	-20.00	1.000	26.38
178	277.8	101.2	0.0100	-20.00	1.000	25.96
179	280.3	98.7	0.0100	-20.00	1.000	25.66
180	284.0	95.0	0.0100	-20.00	1.000	25.19
181	286.1	92.9	0.0100	-20.00	1.000	24.92



182	287.2	91.8	0.0100	-20.00	1.000	24.78
183	287.9	91.1	0.0100	-20.00	1.000	24.69
184	287.3	91.7	0.0100	-20.00	1.000	24.78
185	285.8	93.2	0.0100	-20.00	1.000	24.97
186	286.4	92.6	0.0100	-20.00	1.000	24.90
187	287.7	91.3	0.0100	-20.00	1.000	24.72
188	287.2	91.8	0.0100	-20.00	1.000	24.79
189	282.6	96.4	0.0100	-20.00	1.000	25.37
190	277.2	101.8	0.0100	-20.00	1.000	26.02
191	273.0	106.0	0.0100	-20.00	1.000	26.52
192	269.7	109.3	0.0100	-20.00	1.000	26.89
193	265.5	113.5	0.0100	-20.00	1.000	27.34
194	261.6	117.4	0.0100	-20.00	1.000	27.73
195	259.0	120.0	0.0100	-20.00	1.000	27.99
196	255.7	123.3	0.0100	-20.00	1.000	28.29
197	252.4	126.6	0.0100	-20.00	1.000	28.59
198	249.4	129.6	0.0100	-20.00	1.000	28.87
199	246.2	132.8	0.0100	-20.00	1.000	29.17
200	242.5	136.5	0.0100	-20.00	1.000	29.52
201	238.9	140.1	0.0100	-20.00	1.000	29.86
202	235.1	143.9	0.0100	-20.00	1.000	30.24
203	230.4	148.6	0.0100	-20.00	1.000	30.70
204	226.3	152.7	0.0100	-20.00	1.000	31.11
205	222.6	156.4	0.0100	-20.00	1.000	31.48
206	219.5	159.5	0.0100	-20.00	1.000	31.81
207	216.9	162.1	0.0100	-20.00	1.000	32.07
208	213.4	165.6	0.0100	-20.00	1.000	32.44
209	210.4	168.6	0.0100	-20.00	1.000	32.74
210	207.3	171.7	0.0100	-20.00	1.000	33.05
211	202.9	176.1	0.0100	-20.00	1.000	33.47
212	199.6	179.4	0.0100	-20.00	1.000	33.77
213	198.4	180.6	0.0100	-20.00	1.000	33.87
214	199.1	179.9	0.0100	-20.00	1.000	33.82
215	199.2	179.8	0.0100	-20.00	1.000	33.81
216	200.7	178.3	0.0100	-20.00	1.000	33.67
217	201.2	177.8	0.0100	-20.00	1.000	33.63
218	202.1	176.9	0.0100	-20.00	1.000	33.55
219	202.4	176.6	0.0100	-20.00	1.000	33.52
220	201.1	177.9	0.0100	-20.00	1.000	33.64
221	199.5	179.5	0.0100	-20.00	1.000	33.78
222	196.7	182.3	0.0100	-20.00	1.000	34.03
223	193.5	185.5	0.0100	-20.00	1.000	34.30
224	191.0	188.0	0.0100	-20.00	1.000	34.51
225	187.9	191.1	0.0100	-20.00	1.000	34.77
226	184.2	194.8	0.0100	-20.00	1.000	35.08
227	181.2	197.8	0.0100	-20.00	1.000	35.32
228	178.7	200.3	0.0100	-20.00	1.000	35.53
229	175.7	203.3	0.0100	-20.00	1.000	35.77
230	173.2	205.8	0.0100	-20.00	1.000	35.97
231	170.7	208.3	0.0100	-20.00	1.000	36.16
232	167.8	211.2	0.0100	-20.00	1.000	36.38
233	164.9	214.1	0.0100	-20.00	1.000	36.60
234	162.0	217.0	0.0100	-20.00	1.000	36.82
235	159.1	219.9	0.0100	-20.00	1.000	37.04
236	156.7	222.3	0.0100	-20.00	1.000	37.21
237	153.9	225.1	0.0100	-20.00	1.000	37.41
238	151.8	227.2	0.0100	-20.00	1.000	37.56
239	150.2	228.8	0.0100	-20.00	1.000	37.67
240	148.9	230.1	0.0100	-20.00	1.000	37.76
241	148.3	230.7	0.0100	-20.00	1.000	37.80
242	149.2	229.8	0.0100	-20.00	1.000	37.73
243	150.9	228.1	0.0100	-20.00	1.000	37.62
244	151.8	227.2	0.0100	-20.00	1.000	37.56
245	151.8	227.2	0.0100	-20.00	1.000	37.56

246	151.7	227.3	0.0100	-20.00	1.000	37.56
247	151.9	227.1	0.0100	-20.00	1.000	37.55
248	152.2	226.8	0.0100	-20.00	1.000	37.53
249	152.5	226.5	0.0100	-20.00	1.000	37.51
250	153.1	225.9	0.0100	-20.00	1.000	37.46
251	153.9	225.1	0.0100	-20.00	1.000	37.41
252	154.4	224.6	0.0100	-20.00	1.000	37.37
253	155.1	223.9	0.0100	-20.00	1.000	37.32
254	156.0	223.0	0.0100	-20.00	1.000	37.26
255	156.4	222.6	0.0100	-20.00	1.000	37.23
256	156.6	222.4	0.0100	-20.00	1.000	37.22
257	156.4	222.6	0.0100	-20.00	1.000	37.23
258	155.6	223.4	0.0100	-20.00	1.000	37.29
259	154.4	224.6	0.0100	-20.00	1.000	37.37
260	152.9	226.1	0.0100	-20.00	1.000	37.48
261	150.9	228.1	0.0100	-20.00	1.000	37.62
262	148.3	230.7	0.0100	-20.00	1.000	37.80
263	147.1	231.9	0.0100	-20.00	1.000	37.88
264	147.5	231.5	0.0100	-20.00	1.000	37.85
265	148.6	230.4	0.0100	-20.00	1.000	37.78
266	150.1	228.9	0.0100	-20.00	1.000	37.67
267	152.9	226.1	0.0100	-20.00	1.000	37.48
268	156.0	223.0	0.0100	-20.00	1.000	37.26
269	158.9	220.1	0.0100	-20.00	1.000	37.05
270	161.1	217.9	0.0100	-20.00	1.000	36.89
271	162.7	216.3	0.0100	-20.00	1.000	36.77
272	163.6	215.4	0.0100	-20.00	1.000	36.70
273	164.2	214.8	0.0100	-20.00	1.000	36.66
274	164.9	214.1	0.0100	-20.00	1.000	36.60
275	165.8	213.2	0.0100	-20.00	1.000	36.54
276	167.1	211.9	0.0100	-20.00	1.000	36.44
277	168.6	210.4	0.0100	-20.00	1.000	36.32
278	169.8	209.2	0.0100	-20.00	1.000	36.23
279	170.7	208.3	0.0100	-20.00	1.000	36.16
280	172.1	206.9	0.0100	-20.00	1.000	36.05
281	173.6	205.4	0.0100	-20.00	1.000	35.93
282	175.6	203.4	0.0100	-20.00	1.000	35.77
283	178.1	200.9	0.0100	-20.00	1.000	35.57
284	180.6	198.4	0.0100	-20.00	1.000	35.37
285	182.9	196.1	0.0100	-20.00	1.000	35.19
286	184.8	194.2	0.0100	-20.00	1.000	35.02
287	186.9	192.1	0.0100	-20.00	1.000	34.86
288	189.3	189.7	0.0100	-20.00	1.000	34.65
289	192.1	186.9	0.0100	-20.00	1.000	34.42
290	195.1	183.9	0.0100	-20.00	1.000	34.17
291	198.3	180.7	0.0100	-20.00	1.000	33.88
292	202.6	176.4	0.0100	-20.00	1.000	33.50
293	205.8	173.2	0.0100	-20.00	1.000	33.19
294	207.9	171.1	0.0100	-20.00	1.000	32.99
295	209.4	169.6	0.0100	-20.00	1.000	32.84
296	210.8	168.2	0.0100	-20.00	1.000	32.70
297	212.2	166.8	0.0100	-20.00	1.000	32.56
298	213.5	165.5	0.0100	-20.00	1.000	32.42
299	215.1	163.9	0.0100	-20.00	1.000	32.26
300	217.0	162.0	0.0100	-20.00	1.000	32.07
301	218.9	160.1	0.0100	-20.00	1.000	31.87
302	221.2	157.8	0.0100	-20.00	1.000	31.63
303	223.8	155.2	0.0100	-20.00	1.000	31.37
304	226.0	153.0	0.0100	-20.00	1.000	31.14
305	228.6	150.4	0.0100	-20.00	1.000	30.88
306	231.6	147.4	0.0100	-20.00	1.000	30.58
307	234.2	144.8	0.0100	-20.00	1.000	30.33
308	236.2	142.8	0.0100	-20.00	1.000	30.13
309	237.9	141.1	0.0100	-20.00	1.000	29.97

310	239.2	139.8	0.0100	-20.00	1.000	29.83
311	240.5	138.5	0.0100	-20.00	1.000	29.71
312	241.5	137.5	0.0100	-20.00	1.000	29.62
313	241.8	137.2	0.0100	-20.00	1.000	29.59
314	242.0	137.0	0.0100	-20.00	1.000	29.57
315	242.8	136.2	0.0100	-20.00	1.000	29.49
316	245.1	133.9	0.0100	-20.00	1.000	29.27
317	247.9	131.1	0.0100	-20.00	1.000	29.01
318	250.6	128.4	0.0100	-20.00	1.000	28.76
319	252.8	126.2	0.0100	-20.00	1.000	28.55
320	254.4	124.6	0.0100	-20.00	1.000	28.41
321	256.7	122.3	0.0100	-20.00	1.000	28.20
322	259.1	119.9	0.0100	-20.00	1.000	27.97
323	260.5	118.5	0.0100	-20.00	1.000	27.85
324	262.0	117.0	0.0100	-20.00	1.000	27.69
325	263.5	115.5	0.0100	-20.00	1.000	27.55
326	264.2	114.8	0.0100	-20.00	1.000	27.47
327	264.7	114.3	0.0100	-20.00	1.000	27.43
328	264.4	114.6	0.0100	-20.00	1.000	27.45
329	263.3	115.7	0.0100	-20.00	1.000	27.57
330	262.9	116.1	0.0100	-20.00	1.000	27.60
331	264.8	114.2	0.0100	-20.00	1.000	27.41
332	267.1	111.9	0.0100	-20.00	1.000	27.17
333	268.4	110.6	0.0100	-20.00	1.000	27.04
334	268.9	110.1	0.0100	-20.00	1.000	26.98
335	269.3	109.7	0.0100	-20.00	1.000	26.94
336	270.3	108.7	0.0100	-20.00	1.000	26.82
337	272.1	106.9	0.0100	-20.00	1.000	26.62
338	274.0	105.0	0.0100	-20.00	1.000	26.41
339	274.8	104.2	0.0100	-20.00	1.000	26.31
340	275.9	103.1	0.0100	-20.00	1.000	26.18
341	276.9	102.1	0.0100	-20.00	1.000	26.06
342	277.5	101.5	0.0100	-20.00	1.000	25.99
343	277.3	101.7	0.0100	-20.00	1.000	26.01
344	277.0	102.0	0.0100	-20.00	1.000	26.05
345	276.4	102.6	0.0100	-20.00	1.000	26.13
346	276.3	102.7	0.0100	-20.00	1.000	26.14
347	276.3	102.7	0.0100	-20.00	1.000	26.14
348	277.1	101.9	0.0100	-20.00	1.000	26.04
349	277.7	101.3	0.0100	-20.00	1.000	25.97
350	277.8	101.2	0.0100	-20.00	1.000	25.96
351	276.7	102.3	0.0100	-20.00	1.000	26.09
352	276.3	102.7	0.0100	-20.00	1.000	26.14
353	275.6	103.4	0.0100	-20.00	1.000	26.22
354	274.1	104.9	0.0100	-20.00	1.000	26.39
355	272.7	106.3	0.0100	-20.00	1.000	26.56
356	272.0	107.0	0.0100	-20.00	1.000	26.64
357	271.5	107.5	0.0100	-20.00	1.000	26.69
358	270.9	108.1	0.0100	-20.00	1.000	26.76
359	271.6	107.4	0.0100	-20.00	1.000	26.67

Ave El= 245.94 M HAAT= 133.06 M AMSL= 379