

MINOR CHANGE APPLICATION
INSPIRATION TIME, INC.
NEW FM TRANSLATOR STATION
CH 277D - 103.3 MHZ - 0.2 KW
ERIE, PENNSYLVANIA
March 2018

EXHIBIT B

Interference Study for Channel 277D
Using Proposed Site as Reference

The proposed Channel 277, operating with an effective radiated power of 0.2 kilowatt, will not cause interference to any existing, applied for or proposed facility. As noted on Exhibit B1, the proposed Channel 277 is within the predicted 60 dBu contour of second adjacent stations WRTS, Channel 279B, Erie, Pennsylvania and WCGM, Channel 274A, Wattsburg, Pennsylvania. Due to the relationship between the proposed Channel 277 and WRTS and WCGM, a 40 db ratio of the protected and interfering contours applies.

Proposed Channel 277 vs WRTS

The WRTS contour at the Channel 277 antenna site is in excess of 84.5 dBu (50/50). The corresponding interfering contour for Channel 277 is 124.5 dBu (50/10) (Exhibit B2). As shown in the tabulation of desired to undesired contours (Exhibit B3), the Channel 277 interfering contour (124.5 dBu, FCC 50/10) will not reach ground level. Since the Channel 277 antenna will be mounted 79.0 meters (259.2 feet) above ground and there are no structures of comparable height in the vicinity of the proposed Channel 277 antenna, this contour never reaches any potentially occupied space. As such, WRTS will not receive interference from the proposed translator.

Proposed Channel 277 vs WCGM

The WCGM contour at the Channel 277 antenna site is in excess of 74.1 dBu (50/50). The corresponding interfering contour for Channel 277 is 114.1 dBu (50/10) (Exhibit B2). As shown in the tabulation of desired to undesired contours (Exhibit B4), the Channel 277 interfering contour (114.1 dBu, FCC 50/10) will not reach ground level. Since the Channel 277 antenna will be mounted 79.0 meters (259.2 feet) above ground and there are no structures of comparable height in the vicinity of the proposed Channel 277 antenna, this contour never reaches any potentially occupied space. As such, WCGM will not receive interference from the proposed translator.

Based on the foregoing, it is believed that the proposed Channel 277 is in compliance with §74.1204(d) of the Commission's rules. If a waiver of the rule is needed to address WRTS or WCGM, one is respectfully requested.

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EXHIBIT B1

Interference Study for Ch 277D
Using Proposed Site as Reference

REFERENCE		CH# 277D - 103.3 MHZ, Pwr= 0.2 kW DA, HAAT= 0.0 M, COR= 562 M								DISPLAY DATES	
42 00 02.8 N.		Average Protected F(50-50)= 6.7 km								DATA 03-13-18	
79 52 32.8 W.		Standard Directional								SEARCH 03-13-18	
CH CITY	CALL	TYPE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
277D Erie	1762227!	APP	DC PA	0.0 0.0	0.00 BNPFT20170802ADL	42 00 02.8 79 52 32.8	0.200	0.00 562	0.00 Inspiration Time, Inc.	-64.5R	64.5M
279B Erie	WRTS	LIC	CN PA	330.7 150.6	11.41 BMLH19871209KC	42 05 25.0 79 56 37.0	50.000 152	4.7 516	55.4 Connoisseur Media Licenses	-5.9*	-45.3*
274A Wattsburg	WCGM	LIC	CX PA	90.6 270.8	14.54 BLED20111011ADP	41 59 57.0 79 41 59.0	3.500 132	2.9 606	32.1 Family Life Ministries, Inc	-0.6	-18.5*
277B Buffalo	WEDG	LIC	CN NY	39.2 219.9	133.35 BLH19970523KB	42 55 34.0 78 50 28.0	49.000 106	133.3 293	60.5 Radio License Holding Cbc,	-13.4	12.9
276A Russell	WQFX-FM	LIC	C PA	93.8 274.3	59.16 BMLH20010727ABC	41 57 48.0 79 09 42.0	2.500 107	39.9 598	24.8 Media One Holdings, Llc	6.3	14.8
277B1 Brookville	WKQL	LIC	NCX PA	147.3 327.8	122.93 BLH20011212AAS	41 04 04.0 79 04 59.0	10.500 151	102.2 605	43.2 Renda Radio, Inc.	6.6	24.2
224A Lawrence Park	WEHP	LIC	DCX PA	304.5 124.3	24.19 BLH20121113ALW	42 07 25.0 80 07 02.0	6.000 3	0.0 254	0.0 The Erie Radio Company, Ll	9.5R	14.7M
275D Avonia	1772281	APP	C PA	274.8 94.5	31.54 BNPFT20170728AAT	42 01 26.0 80 15 23.0	0.160	0.9 289	6.3 Lake Effect Media	15.8	24.2
277B Cleveland	WCRF-FM	LIC	CY OH	242.7 61.5	167.44 BLH19810925AZ	41 17 48.0 81 39 27.0	25.500 201	132.5 501	66.6 The Moody Bible Institute	19.9	34.7
276B St. Thomas	9243	OPE	?CN ON	312.4 131.6	140.62	42 50 47.0 81 08 52.0	50.000 150	81.4 403	67.7	44.9	47.4
276B St. Thomas	AL9894	DEL	ON	312.4 131.6	140.62	42 50 47.0 81 08 52.0	50.000 150	80.9 399	65.0	45.5	47.4

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. Call signs with exclamation marks need not be protected.

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.

New TX - Erie, PA - BNPFT20170802ADL
Latitude: 42-00-02.80 N / Longitude: 079-52-32.80 W
ERP: 0.20 kW / Channel: 277 / Freq: 103.3 MHz
AMSL Height: 562.0 m / Elevation: 483.0 m
Horiz. Pattern: Directional

WRTS - Erie, PA - BMLH19871209KC
Latitude: 42-05-25 N / Longitude: 079-56-37 W
ERP: 50.00 kW / Channel: 279 / Freq: 103.7 MHz
AMSL Height: 516.0 m / Elevation: 446.0 m
Horiz. Pattern: Omni

WCGM - Wattsburg, PA - BLED20111011ADP
Latitude: 41-59-57 N / Longitude: 079-41-59 W
ERP: 3.50 kW / Channel: 274 / Freq: 102.7 MHz
AMSL Height: 606.0 m / Elevation: 566.0 m
Horiz. Pattern: Omni

GRAHAM BROCK, INC.
BROADCAST TECHNICAL CONSULTANTS

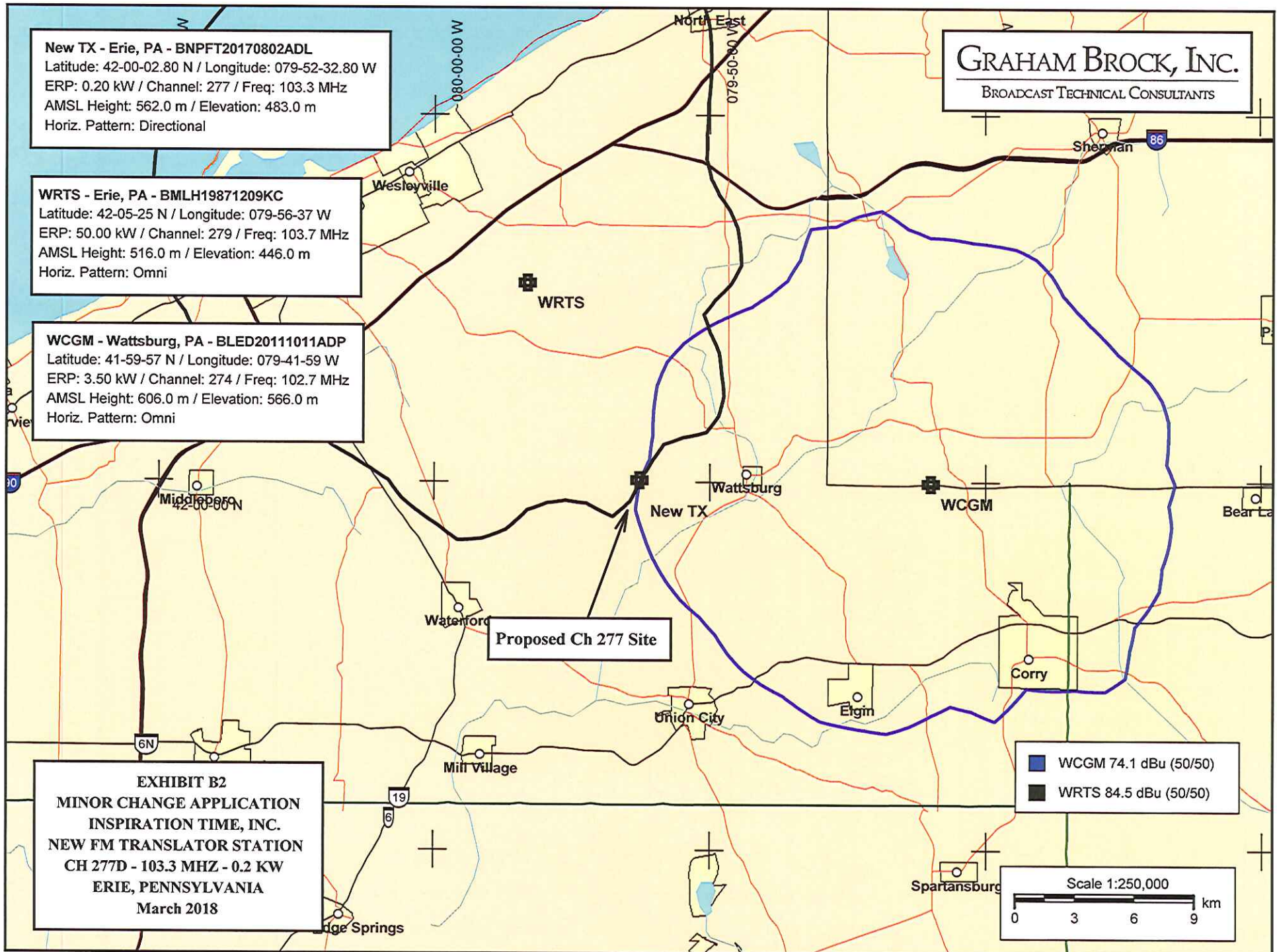


EXHIBIT B2
MINOR CHANGE APPLICATION
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EXHIBIT B3

Proposed Channel 277 vs WRTS Interference Contour Tabulation

1762227 Erie, PA, Showing Protection to WRTS
 74.1204(d) Study - Using NGDC 30 SEC Terrain Database
 Translator or LPFM Maximum Licensed ERP = 0.2
 Translator or LPFM Antenna Height AG = 79 Meters
 1762227 Antenna Model = 1 BAY

Protected Station's Contour = 84.52412 dBu
 Translator's or LPFM's full Interference contour 124.52412

Review Azimuth = 0 Degrees True
 Relative Field on the horizon at Review Azimuth = 0.671
 Translator/LPFM ERP on the horizon at Review Azimuth = 0.09 kW
 Distance between stations = 11.4 km
 Protected Station= WRTS, 50 kW, 516 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	0.67	0.1342	048.2692	048.2692	079.000
05.00	0.996	0.67	0.1331	048.0761	047.8932	074.810
10.00	0.985	0.67	0.1302	047.5452	046.8229	070.744
15.00	0.967	0.67	0.1255	046.6763	045.0859	066.919
20.00	0.942	0.67	0.1191	045.4696	042.7274	063.448
25.00	0.91	0.67	0.1111	043.9250	039.8096	060.436
30.00	0.871	0.67	0.1018	042.0425	036.4099	057.979
35.00	0.826	0.67	0.0916	039.8704	032.6599	056.131
40.00	0.774	0.67	0.0804	037.3604	028.6197	054.985
45.00	0.717	0.67	0.0690	034.6090	024.4723	054.528
50.00	0.654	0.67	0.0574	031.5681	020.2916	054.817
55.00	0.586	0.67	0.0461	028.2858	016.2240	055.830
60.00	0.514	0.67	0.0355	024.8104	012.4052	057.514
65.00	0.437	0.67	0.0256	021.0936	008.9146	059.883
70.00	0.357	0.67	0.0171	017.2321	005.8937	062.807
75.00	0.273	0.67	0.0100	013.1775	003.4106	066.272
80.00	0.186	0.67	0.0046	008.9781	001.5590	070.158
85.00	0.096	0.67	0.0012	004.6338	000.4039	074.384
90.00	0.0	0.67	0.0000	000.0241	000.0000	078.976

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Proposed Channel 277 vs WCGM Interference Contour Tabulation

1762227 Erie, PA, Showing Protection to WCGM
 74.1204(d) Study - Using NGDC 30 SEC Terrain Database
 Translator or LPFM Maximum Licensed ERP = 0.2
 Translator or LPFM Antenna Height AG = 79 Meters
 1762227 Antenna Model = 1 BAY

Protected Station's Contour = 74.11588 dBu
 Translator's or LPFM's full Interference contour 114.11588

Review Azimuth = 0 Degrees True
 Relative Field on the horizon at Review Azimuth = 0.671
 Translator/LPFM ERP on the horizon at Review Azimuth = 0.09 kW
 Distance between stations = 14.5 km
 Protected Station= WCGM, 3.5 kW, 606 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	0.67	0.1342	159.9861	159.9861	079.000
05.00	0.996	0.67	0.1331	159.3462	158.7398	065.112
10.00	0.985	0.67	0.1302	157.5863	155.1922	051.635
15.00	0.967	0.67	0.1255	154.7066	149.4351	038.959
20.00	0.942	0.67	0.1191	150.7069	141.6182	027.455
25.00	0.91	0.67	0.1111	145.5874	131.9470	017.472
30.00	0.871	0.67	0.1018	139.3479	120.6788	009.326
35.00	0.826	0.67	0.0916	132.1485	108.2497	003.203
40.00	0.774	0.67	0.0804	123.8292	094.8587	-000.596
45.00	0.717	0.67	0.0690	114.7100	081.1122	-002.112
50.00	0.654	0.67	0.0574	104.6309	067.2555	-001.152
55.00	0.586	0.67	0.0461	093.7519	053.7739	002.203
60.00	0.514	0.67	0.0355	082.2329	041.1164	007.784
65.00	0.437	0.67	0.0256	069.9139	029.5469	015.636
70.00	0.357	0.67	0.0171	057.1150	019.5345	025.329
75.00	0.273	0.67	0.0100	043.6762	011.3042	036.812
80.00	0.186	0.67	0.0046	029.7574	005.1673	049.695
85.00	0.096	0.67	0.0012	015.3587	001.3386	063.700
90.00	0.0	0.67	0.0000	000.0800	000.0000	078.920

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EXHIBIT B5

N. Lat. = 42 00 02.8 - Predicted Protected and Interfering Contours
W. Lng. = 79 52 32.8 - New FM Translator, Erie, Pennsylvania

HAAT and Distance to Contour,
FCC, FM 2-10 Mi, 51 pts Method - FCC 30 SEC

Azi.	AV EL	HAAT	ERP kW	dBk	Field	124.5-F1	114.1-F1	100-F1	60-F5	54-F1	40-F1	34-F1
000	446.7	115.3	0.0900	-10.46	0.671	0.04	0.13	0.67	10.76	15.36	36.58	51.02
010	441.4	120.6	0.0900	-10.46	0.671	0.04	0.13	0.67	10.98	15.80	37.33	51.79
020	429.5	132.5	0.2000	-6.99	1.000	0.06	0.20	0.99	13.96	21.06	46.95	62.83
030	436.9	125.1	0.2000	-6.99	1.000	0.06	0.20	0.99	13.56	20.43	45.96	61.66
040	454.2	107.8	0.2000	-6.99	1.000	0.06	0.20	0.99	12.63	18.83	43.31	58.85
050	463.8	98.2	0.2000	-6.99	1.000	0.06	0.20	0.99	12.08	17.81	41.48	57.15
060	459.6	102.4	0.2000	-6.99	1.000	0.06	0.20	0.99	12.33	18.27	42.32	57.92
070	445.4	116.6	0.2000	-6.99	1.000	0.06	0.20	0.99	13.12	19.69	44.77	60.31
080	441.1	120.9	0.2000	-6.99	1.000	0.06	0.20	0.99	13.35	20.08	45.40	61.00
090	460.1	101.9	0.2000	-6.99	1.000	0.06	0.20	0.99	12.30	18.22	42.21	57.83
100	473.7	88.3	0.2000	-6.99	1.000	0.06	0.20	0.99	11.49	16.67	39.31	55.18
110	465.7	96.3	0.2000	-6.99	1.000	0.06	0.20	0.99	11.97	17.60	41.07	56.79
120	462.2	99.8	0.2000	-6.99	1.000	0.06	0.20	0.99	12.18	17.99	41.79	57.44
130	450.7	111.3	0.2000	-6.99	1.000	0.06	0.20	0.99	12.83	19.19	43.93	59.46
140	429.5	132.5	0.2000	-6.99	1.000	0.06	0.20	0.99	13.96	21.06	46.94	62.83
150	432.0	130.0	0.2000	-6.99	1.000	0.06	0.20	0.99	13.83	20.85	46.62	62.44
160	432.1	129.9	0.2000	-6.99	1.000	0.06	0.20	0.99	13.82	20.84	46.61	62.42
170	435.0	127.0	0.2000	-6.99	1.000	0.06	0.20	0.99	13.66	20.59	46.22	61.96
180	423.8	138.2	0.2000	-6.99	1.000	0.06	0.20	0.99	14.28	21.54	47.71	63.74
190	415.0	147.0	0.2000	-6.99	1.000	0.06	0.20	0.99	14.78	22.30	48.89	65.17
200	407.8	154.2	0.2000	-6.99	1.000	0.06	0.20	0.99	15.20	22.91	49.86	66.32
210	394.1	167.9	0.2000	-6.99	1.000	0.06	0.20	0.99	15.97	23.99	51.64	68.35
220	397.6	164.4	0.2000	-6.99	1.000	0.06	0.20	0.99	15.78	23.73	51.19	67.85
230	415.2	146.8	0.2000	-6.99	1.000	0.06	0.20	0.99	14.77	22.29	48.88	65.15
240	410.1	151.9	0.2000	-6.99	1.000	0.06	0.20	0.99	15.06	22.71	49.55	65.95
250	411.8	150.2	0.2000	-6.99	1.000	0.06	0.20	0.99	14.97	22.57	49.32	65.68
260	412.2	149.8	0.2000	-6.99	1.000	0.06	0.20	0.99	14.94	22.53	49.27	65.62
270	413.7	148.3	0.2000	-6.99	1.000	0.06	0.20	0.99	14.86	22.41	49.07	65.38
280	412.3	149.7	0.2000	-6.99	1.000	0.06	0.20	0.99	14.94	22.53	49.26	65.60
290	405.1	156.9	0.2000	-6.99	1.000	0.06	0.20	0.99	15.36	23.13	50.22	66.73
300	399.6	162.4	0.0900	-10.46	0.671	0.04	0.13	0.67	12.80	19.09	42.43	57.59
310	396.4	165.6	0.0900	-10.46	0.671	0.04	0.13	0.67	12.93	19.32	42.80	58.03
320	388.2	173.8	0.0900	-10.46	0.671	0.04	0.13	0.67	13.26	19.88	43.70	59.10
330	404.0	158.0	0.0900	-10.46	0.671	0.04	0.13	0.67	12.61	18.76	41.93	56.99
340	404.2	157.8	0.0900	-10.46	0.671	0.04	0.13	0.67	12.60	18.75	41.91	56.96
350	416.2	145.8	0.0900	-10.46	0.671	0.04	0.13	0.67	12.07	17.83	40.52	55.30

AMSL= 562.0