

Exhibit 13.1 - Topographical/Photograph Map of W284AH Transmitter Site



Exhibit 13.2

Vertical Plan of Antenna System

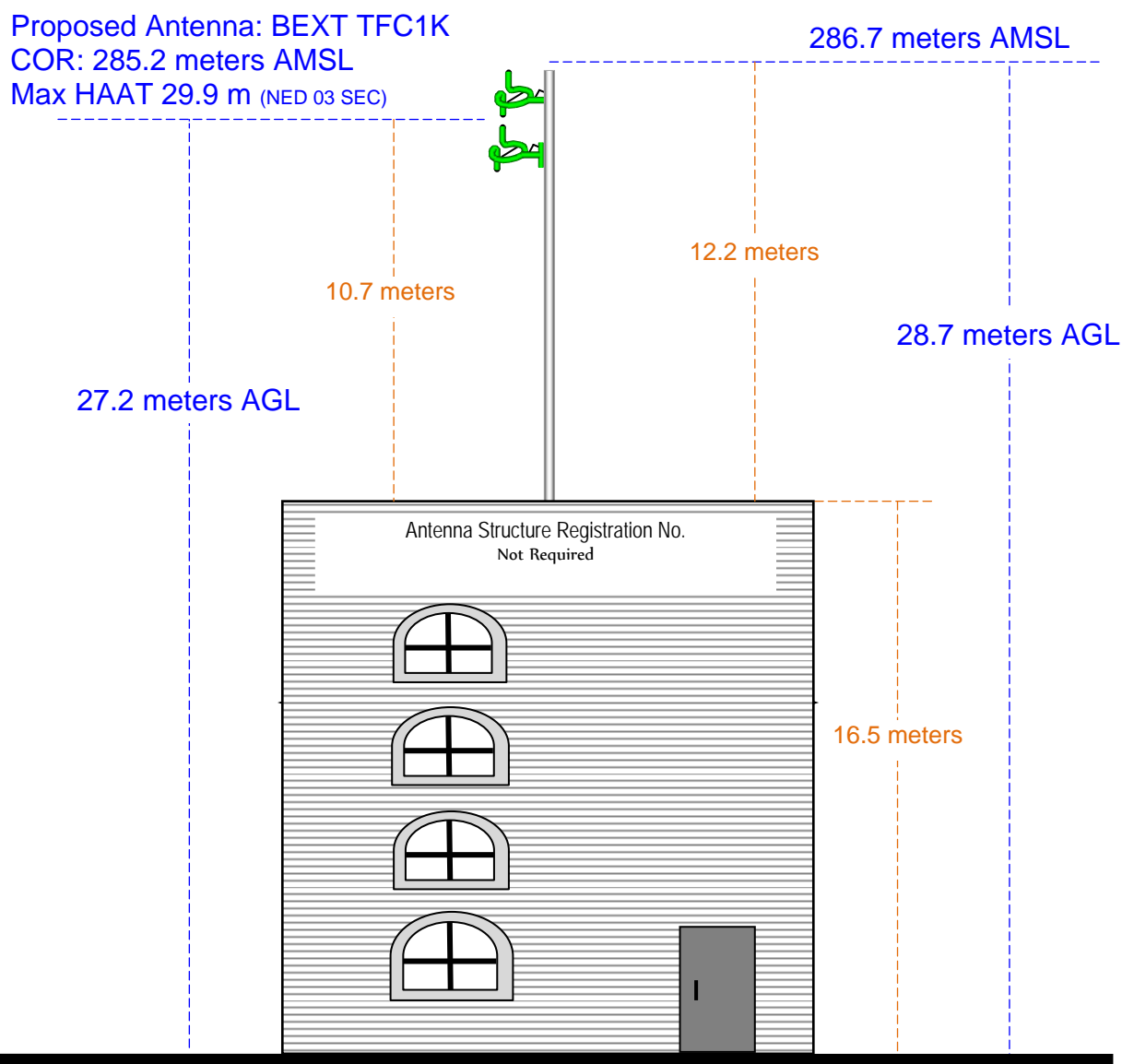
The W284AH transmitter site is located on the roof of the Gannon Building, on the Lansing Community College Campus, at the corner of E. Shiawassee and N. Grand Avenue, Lansing, MI.

Site Location (NAD 27)

NL: 42° 44' 19"

WL: 84° 33' 05"

(42°44'19.23 NL, 84°33'05.14" WL NAD-83)



Ground Elevation = 258 m AMSL
Drawing is not to Scale

MUNN-REESE, INC.
Broadcast Engineering Consultants
Coldwater, MI 49036

Exhibit 13.3 - Present & Proposed Service Contour Study

W284AH.Lic
Lansing, MI
BLFT19990831AAK
Latitude: 42-44-16 N
Longitude: 084-33-09 W
ERP: 0.25 kW
Channel: 284
Frequency: 104.7 MHz
AMSL Height: 284.0 m
Elevation: 258.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

2010 Census Information:

60 dBu Contour

Total Population: 165,534
Coverage Area: 158 sq. km

W284AH.Prop
BLFT19990831AAK
Latitude: 42-44-19 N
Longitude: 084-33-05 W
ERP: 0.25 kW
Channel: 284
Frequency: 104.7 MHz
AMSL Height: 285.2 m
Elevation: 258.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

2010 Census Information

60 dBu Contour

Total Population: 165,195
Coverage Area: 159 sq. km

Based on NED 03 Sec Terrain Database

W284AH Proposed 60 dBu (50:50) Contour

W284AH Present 60 dBu (50:50) Contour

Scale 1:150,000

0 2 4 6 km

V-Soft Communications LLC ©

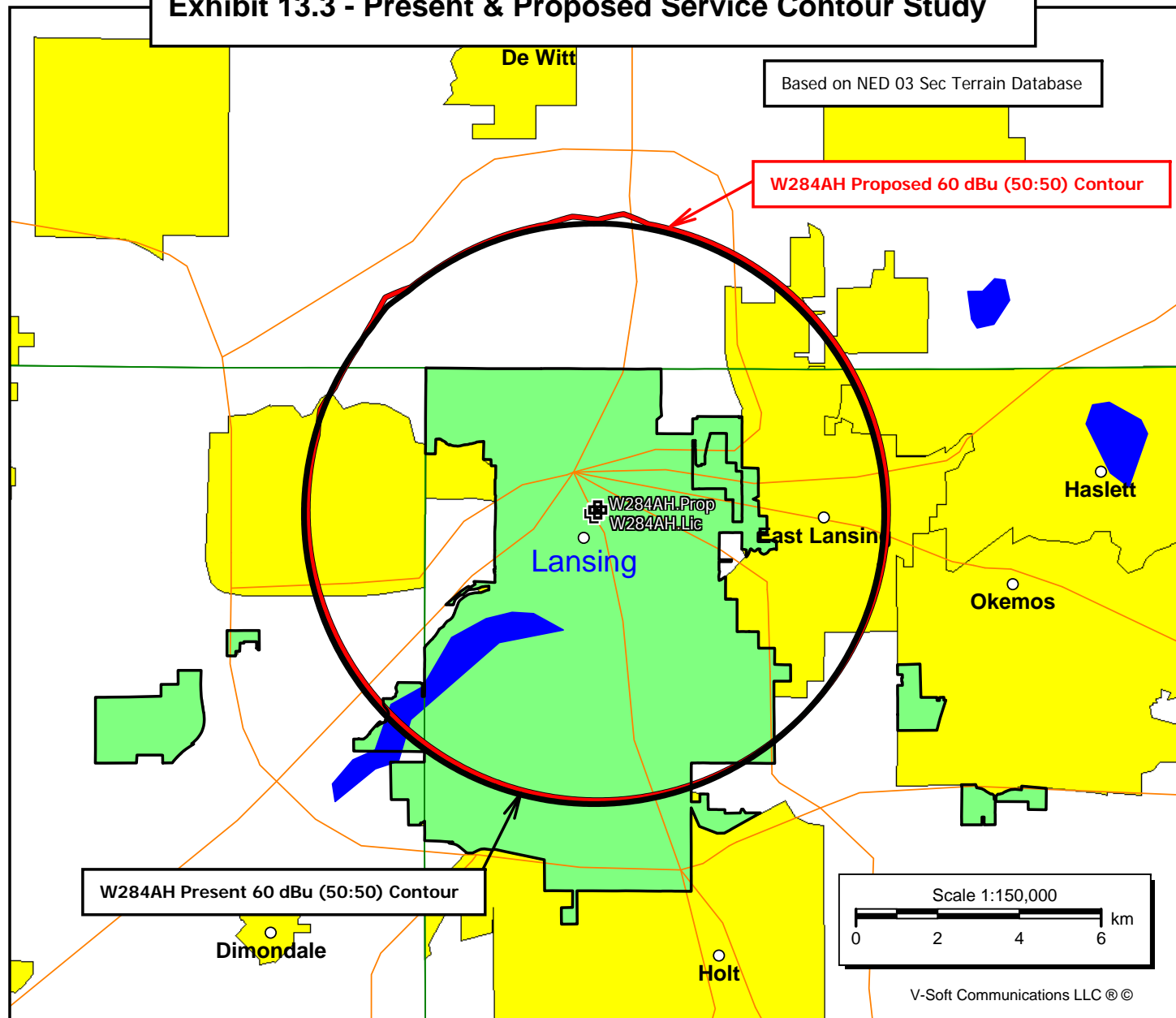


Exhibit 13.4 - Proposed W284AH vs Primary Service Contour Study

W284AH.Prop
Lansing, MI
Latitude: 42-44-19 N
Longitude: 084-33-05 W
ERP: 0.25 kW
Channel: 284
Frequency: 104.7 MHz
AMSL Height: 285.2 m
Elevation: 258.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

WJKN-FM
BLED20050411AAG
Latitude: 42-09-13 N
Longitude: 084-32-57 W
ERP: 2.50 kW
Channel: 207
Frequency: 89.3 MHz
AMSL Height: 398.0 m
Elevation: 316.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

W252CN
BLFT20141224AAF
Latitude: 42-42-46 N
Longitude: 084-36-49 W
ERP: 0.17 kW
Channel: 252
Frequency: 98.3 MHz
AMSL Height: 304.0 m
Elevation: 265.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

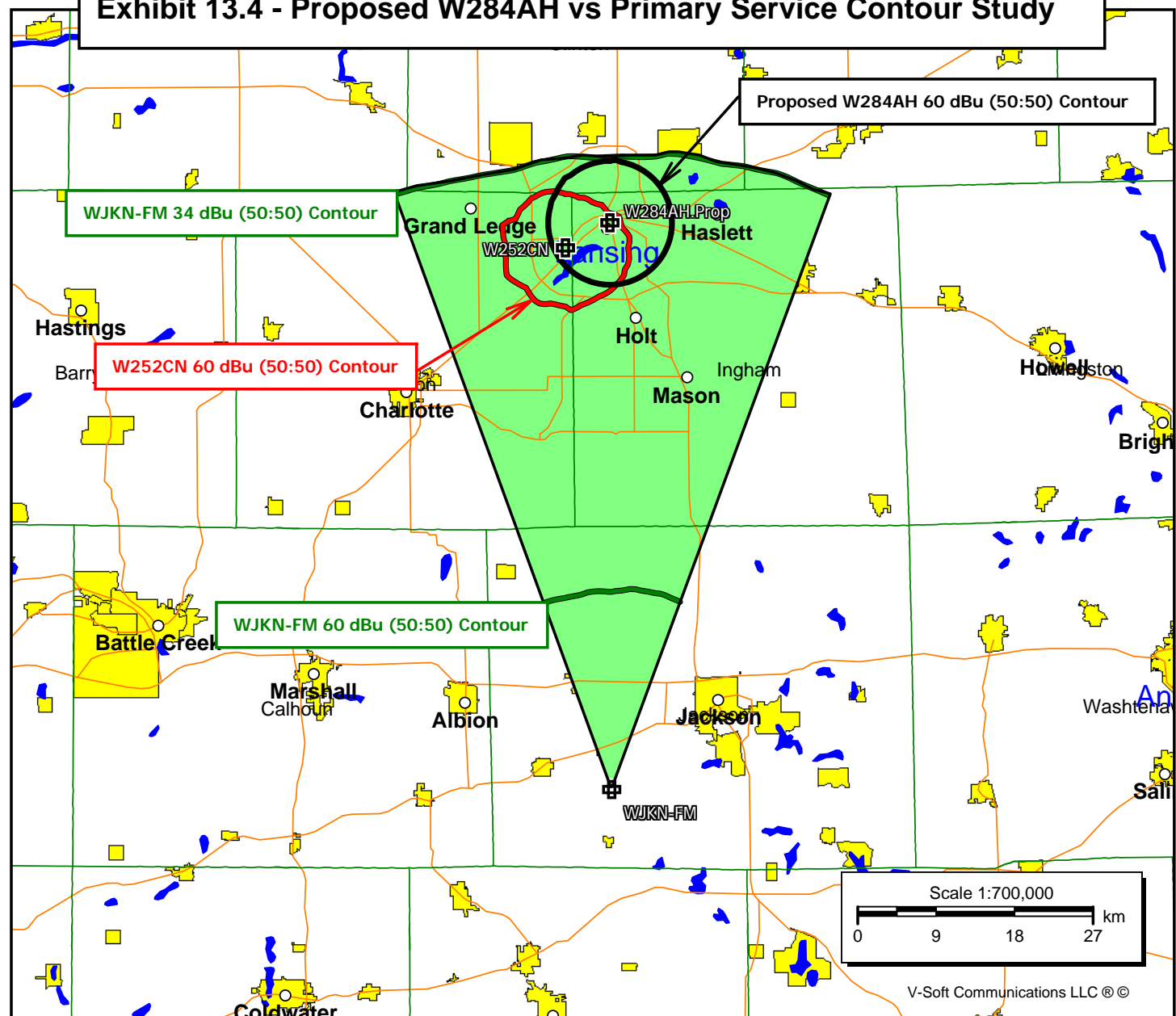


Exhibit 13.5

Proposed Allocation Study

Munn-Reese, Inc.
Coldwater, MI 49036

Exhibit 13.5 - Tabulation of Proposed Allocation

REFERENCE		CH# 284D - 104.7 MHz, Pwr= 0.25 kw, HAAT= 23.6 M, COR= 285.2 M								DISPLAY DATES	
42 44 19.0 N.		Average Protected F(50-50)= 7.09 km								DATA	06-15-15
84 33 05.0 W.		Omni-directional								SEARCH	06-17-15
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 Lansing	W284AH	LIC _CN MI		224.3 44.3	0.12 BLFT19990831AAK	42 44 16.0 84 33 09.0	0.250 23	23.8 284	7.1 Spring Arbor University	-30.7*	-30.7*
284B Toledo	WIOT	LIC _CX OH		141.6 322.3	150.44 BMLH20020611AAX	41 40 23.0 83 25 31.0	50.000 165	140.0 345	67.2 Citicasters Licenses, Inc.	3.3	47.7
281B Grand Rapids	WVGR	LIC DCX MI		263.7 83.0	80.28 BMLH20080306ABQ	42 39 17.0 85 31 38.0	96.000 221	7.5 469	74.0 Regents Of The University	65.7	4.7
285A Marshall	WBXX	LIC _CN MI		213.3 33.1	56.55 BMLH19900518KC	42 18 47.0 84 55 46.0	6.000 100	40.6 374	26.3 Townsquare Media Battle Cr	8.9	20.1
285A Alma	WQBX	LIC _CX MI		356.4 176.4	70.21 BLH20031031ADR	43 22 08.0 84 36 19.0	6.000 100	42.8 327	27.7 Jacom, Inc.	20.3	32.4
285A Alma	WQBX	CP NCX MI		356.4 176.4	70.21 BPH20140508ABS	43 22 08.0 84 36 19.0	6.000 100	42.8 327	27.7 Jacom, Inc.	20.3	32.4
284B Elkhart	WFRN-FM	LIC _CX IN		223.5 42.6	169.97 BMLH20041230ACW	41 37 18.0 85 57 37.0	50.000 140	138.0 384	65.3 Progressive Broadcasting S	24.9	69.1
231B Jackson	WWDK	LIC _C MI		193.8 13.7	39.68 BMLH20150427AAT	42 23 31.0 84 39 60.0	40.000 168	11.2 457	3.5 Midwest Communications, In	14.5R	25.2M
287A Brooklyn	WKHM-FM	LIC _CN MI		169.3 349.4	66.15 BLH19940201KC	42 09 14.0 84 24 07.0	2.200 115	2.2 418	24.6 Jackson Radio works, Inc.	56.9	40.4
283A Saginaw	WILZ	LIC NCN MI		34.8 215.2	88.79 BLH19920825KB	43 23 34.0 83 55 27.0	2.900 126	41.0 309	27.0 Radio License Holding Cbc,	40.7	51.7
284L1 Mundy Township	WMRP-LP	LIC _MI		73.7 254.3	72.88 BLL20150302AIH	42 55 08.0 83 41 31.0	0.100 29	285	46.7 Swartz Creek Radio		43.3
284D Detroit	W284BQ	LIC DC MI		105.5 286.4	117.34 BLFT20101227ABN	42 26 53.0 83 10 23.0	0.250 283	65.3 481	21.5 Family Life Broadcasting S	44.9	72.1
283B Muskegon	WSNX-FM	LIC _CN MI		293.8 112.8	130.89 BLH19880930KC	43 12 16.0 86 01 45.0	32.000 189	75.6 392	63.8 Cc Licenses, Llc	48.2	53.0

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. Call signs with strikeout 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.
 < = Contour Overlap

Exhibit 13.6

Map Showing Detailed Protection to WVGR(FM) - Grand Rapids, MI

Exhibit 13.6 - Detailed Protection Study of WVGR(FM)
Spring Arbor University

FMCommander Single Allocation Study - 06-17-2015 - NED 03 SEC
W284AH's Overlaps (In= 65.73 km, Out= 4.67 km)

W284AH CH 284 D
Lat= 42 44 19.0, Lng= 84 33 05.0
0.25 kW 23.6 M HAAT, 285.2 M COR
Prot.= 60 dBu, Intef.= 94 dBu

WVGR CH 281 B DA BMLED20080306ABQ
Lat= 42 39 17.0, Lng= 85 31 38.0
96.0 kW 221 M HAAT, 469 M COR
Prot.= 54 dBu, Intef.= 100 dBu

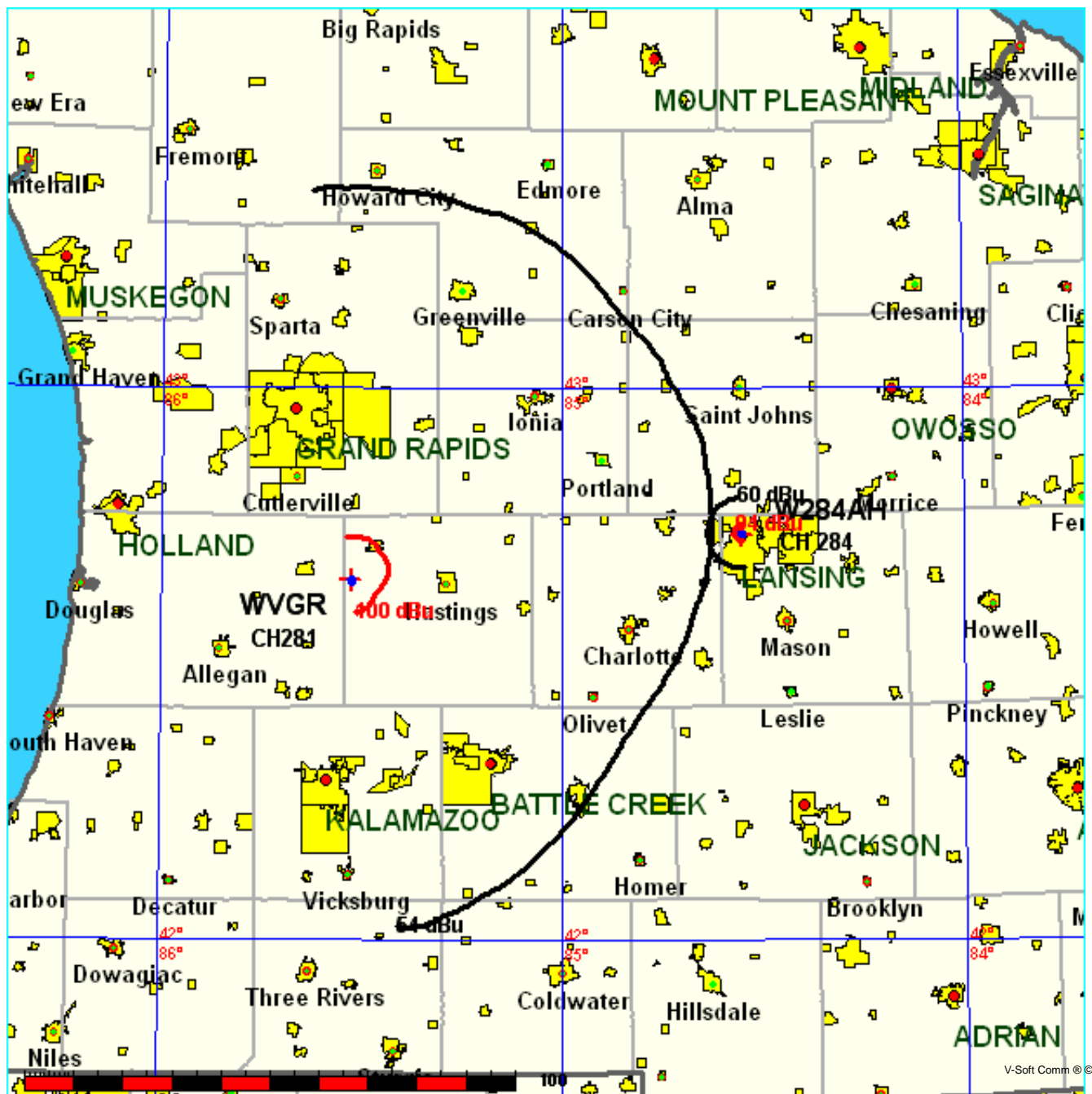


Exhibit 13.6 – Detailed Protection Study Toward WVGR(FM) – Grand Rapids, MI

06-17-2015

Terrain Data: NED 03 SEC

FMOver Analysis

W284AH

WVGR BMLED20080306ABQ

Channel = 284D
Max ERP = 0.25 kW
RCAMSL = 285.2 M
N. Lat. 42 44 19.0
W. Lng. 84 33 05.0
Protected
60 dBu

Channel = 281B
Max ERP = 96 kW
RCAMSL = 469 M
N. Lat. 42 39 17.0
W. Lng. 85 31 38.0
Interfering
100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
204.0	000.2500	0018.1	007.1	087.6	047.9245	0228.3	076.9	57.42	
205.0	000.2500	0017.5	007.1	087.5	047.9667	0228.4	076.8	57.46	
206.0	000.2500	0017.4	007.1	087.5	048.0104	0228.5	076.7	57.51	
207.0	000.2500	0017.1	007.1	087.4	048.0558	0228.6	076.6	57.55	
208.0	000.2500	0016.7	007.1	087.4	048.1028	0228.7	076.5	57.59	
209.0	000.2500	0016.3	007.1	087.3	048.1514	0228.8	076.4	57.64	
210.0	000.2500	0015.9	007.1	087.3	048.2015	0228.9	076.3	57.68	
211.0	000.2500	0015.7	007.1	087.2	048.2533	0229.0	076.2	57.72	
212.0	000.2500	0015.6	007.1	087.2	048.3067	0229.1	076.1	57.76	
213.0	000.2500	0016.0	007.1	087.1	048.3616	0229.2	076.0	57.81	
214.0	000.2500	0016.4	007.1	087.1	048.4181	0229.3	075.9	57.85	
215.0	000.2500	0016.9	007.1	087.0	048.4761	0229.5	075.8	57.89	
216.0	000.2500	0016.8	007.1	087.0	048.5357	0229.6	075.7	57.93	
217.0	000.2500	0017.7	007.1	086.9	048.5968	0229.6	075.6	57.97	
218.0	000.2500	0018.5	007.1	086.8	048.6594	0229.7	075.5	58.01	
219.0	000.2500	0019.2	007.1	086.8	048.7234	0229.8	075.4	58.05	
220.0	000.2500	0019.6	007.1	086.7	048.7890	0229.9	075.3	58.09	
221.0	000.2500	0019.6	007.1	086.7	048.8560	0230.0	075.2	58.13	
222.0	000.2500	0018.8	007.1	086.6	048.9245	0230.1	075.1	58.17	
223.0	000.2500	0018.8	007.1	086.5	048.9944	0230.2	075.0	58.21	
224.0	000.2500	0019.3	007.1	086.5	049.0658	0230.2	075.0	58.24	
225.0	000.2500	0020.1	007.1	086.4	049.1385	0230.3	074.9	58.28	
226.0	000.2500	0020.8	007.1	086.3	049.2125	0230.3	074.8	58.31	
227.0	000.2500	0021.0	007.1	086.2	049.2880	0230.3	074.7	58.35	
228.0	000.2500	0020.4	007.1	086.2	049.3647	0230.4	074.6	58.38	
229.0	000.2500	0019.3	007.1	086.1	049.4428	0230.4	074.6	58.41	
230.0	000.2500	0018.3	007.1	086.0	049.5222	0230.4	074.5	58.45	
231.0	000.2500	0018.4	007.1	085.9	049.6028	0230.4	074.4	58.48	
232.0	000.2500	0018.8	007.1	085.9	049.6847	0230.4	074.3	58.51	
233.0	000.2500	0019.6	007.1	085.8	049.7678	0230.4	074.3	58.54	
234.0	000.2500	0019.8	007.1	085.7	049.8520	0230.4	074.2	58.57	
235.0	000.2500	0019.7	007.1	085.6	049.9375	0230.4	074.1	58.60	
236.0	000.2500	0019.6	007.1	085.5	050.0240	0230.4	074.1	58.63	
237.0	000.2500	0019.4	007.1	085.5	050.1117	0230.4	074.0	58.65	
238.0	000.2500	0019.4	007.1	085.4	050.2005	0230.5	074.0	58.68	
239.0	000.2500	0019.3	007.1	085.3	050.2903	0230.5	073.9	58.71	
240.0	000.2500	0019.9	007.1	085.2	050.3811	0230.6	073.8	58.74	
241.0	000.2500	0020.5	007.1	085.1	050.4729	0230.7	073.8	58.77	
242.0	000.2500	0020.7	007.1	085.0	050.5657	0230.7	073.7	58.79	
243.0	000.2500	0020.7	007.1	084.9	050.6594	0230.7	073.7	58.82	

Exhibit 13.6 – Detailed Protection Study Toward WVGR(FM) – Grand Rapids, MI

244.0	000.2500	0020.9	007.1	084.9	050.7540	0230.8	073.6	58.84
245.0	000.2500	0020.8	007.1	084.8	050.8494	0230.8	073.6	58.87
246.0	000.2500	0020.6	007.1	084.7	050.9457	0230.9	073.6	58.89
247.0	000.2500	0020.3	007.1	084.6	051.0427	0231.0	073.5	58.92
248.0	000.2500	0020.1	007.1	084.5	051.1406	0231.1	073.5	58.94
249.0	000.2500	0019.8	007.1	084.4	051.2391	0231.2	073.4	58.97
250.0	000.2500	0019.6	007.1	084.3	051.3383	0231.4	073.4	58.99
251.0	000.2500	0019.6	007.1	084.2	051.4382	0231.5	073.4	59.02
252.0	000.2500	0019.1	007.1	084.1	051.5387	0231.7	073.4	59.04
253.0	000.2500	0018.7	007.1	084.0	051.6398	0231.9	073.3	59.06
254.0	000.2500	0018.8	007.1	083.9	051.7413	0232.0	073.3	59.08
255.0	000.2500	0018.7	007.1	083.8	051.8434	0232.0	073.3	59.10
256.0	000.2500	0018.7	007.1	083.7	051.9460	0232.1	073.3	59.12
257.0	000.2500	0019.1	007.1	083.6	052.0489	0232.1	073.2	59.13
258.0	000.2500	0019.4	007.1	083.5	052.1523	0232.2	073.2	59.15
259.0	000.2500	0020.1	007.1	083.4	052.2560	0232.2	073.2	59.16
260.0	000.2500	0021.0	007.1	083.4	052.3599	0232.2	073.2	59.18
261.0	000.2500	0021.2	007.1	083.3	052.4642	0232.2	073.2	59.19
262.0	000.2500	0021.3	007.1	083.2	052.5686	0232.2	073.2	59.19
263.0	000.2500	0021.3	007.1	083.1	052.6732	0232.1	073.2	59.20
264.0	000.2500	0021.4	007.1	083.0	052.7780	0232.2	073.2	59.21
265.0	000.2500	0021.8	007.1	082.9	052.8828	0232.2	073.2	59.22
266.0	000.2500	0022.3	007.1	082.8	052.9877	0232.1	073.2	59.23
267.0	000.2500	0022.8	007.1	082.7	053.0926	0232.2	073.2	59.24
268.0	000.2500	0023.1	007.1	082.6	053.1974	0232.3	073.2	59.24
269.0	000.2500	0023.2	007.1	082.5	053.3022	0232.4	073.2	59.25
270.0	000.2500	0023.9	007.1	082.4	053.4069	0232.6	073.2	59.26
271.0	000.2500	0024.4	007.1	082.3	053.5113	0232.7	073.3	59.27
272.0	000.2500	0024.4	007.1	082.2	053.6156	0232.9	073.3	59.28
273.0	000.2500	0025.1	007.1	082.1	053.7197	0233.0	073.3	59.29
274.0	000.2500	0026.4	007.1	082.0	053.8234	0233.3	073.3	59.30
275.0	000.2500	0027.2	007.1	081.9	053.9268	0233.5	073.3	59.30
276.0	000.2500	0027.7	007.1	081.8	054.0299	0233.6	073.4	59.31
277.0	000.2500	0028.6	007.1	081.7	054.1325	0233.7	073.4	59.31
278.0	000.2500	0028.9	007.1	081.6	054.2347	0233.6	073.4	59.30
279.0	000.2500	0028.1	007.1	081.5	054.3364	0233.6	073.5	59.30
280.0	000.2500	0026.6	007.1	081.4	054.4375	0233.5	073.5	59.29
281.0	000.2500	0026.5	007.1	081.4	054.5381	0233.4	073.5	59.28
282.0	000.2500	0026.9	007.1	081.3	054.6380	0233.2	073.6	59.27
283.0	000.2500	0026.9	007.1	081.2	054.7373	0233.0	073.6	59.26
284.0	000.2500	0027.3	007.1	081.1	054.8359	0232.9	073.7	59.25
285.0	000.2500	0028.1	007.1	081.0	054.9337	0232.8	073.7	59.23
286.0	000.2500	0028.9	007.1	080.9	055.0308	0232.7	073.8	59.22
287.0	000.2500	0029.4	007.1	080.8	055.1270	0232.5	073.8	59.21
288.0	000.2500	0029.7	007.1	080.7	055.2224	0232.4	073.9	59.19
289.0	000.2500	0030.4	007.1	080.6	055.3313	0232.2	073.9	59.18
290.0	000.2500	0030.6	007.2	080.5	055.4376	0232.1	073.9	59.18
291.0	000.2500	0030.6	007.1	080.5	055.5275	0232.0	074.0	59.16
292.0	000.2500	0030.7	007.2	080.4	055.6241	0231.8	074.1	59.14
293.0	000.2500	0030.2	007.1	080.3	055.6939	0231.7	074.2	59.11
294.0	000.2500	0029.6	007.1	080.2	055.7748	0231.6	074.2	59.08
295.0	000.2500	0029.0	007.1	080.2	055.8632	0231.5	074.3	59.06
296.0	000.2500	0028.3	007.1	080.1	055.9505	0231.4	074.4	59.04
297.0	000.2500	0028.1	007.1	080.0	056.0365	0231.4	074.5	59.02
298.0	000.2500	0028.4	007.1	079.9	056.1192	0231.3	074.5	59.00
299.0	000.2500	0028.3	007.1	079.8	056.2007	0231.2	074.6	58.98
300.0	000.2500	0028.5	007.1	079.8	056.2809	0231.2	074.7	58.96

Exhibit 13.6 – Detailed Protection Study Toward WVGR(FM) – Grand Rapids, MI

301.0	000.2500	0029.1	007.1	079.7	056.3599	0231.1	074.8	58.94
302.0	000.2500	0029.4	007.1	079.6	056.4375	0231.1	074.8	58.92
303.0	000.2500	0029.9	007.1	079.6	056.5139	0231.1	074.9	58.90
304.0	000.2500	0030.5	007.1	079.5	056.6158	0231.0	075.0	58.88
305.0	000.2500	0030.7	007.2	079.4	056.7051	0231.0	075.1	58.87
306.0	000.2500	0030.5	007.1	079.3	056.7685	0230.9	075.2	58.84
307.0	000.2500	0030.2	007.1	079.3	056.8166	0230.9	075.3	58.80
308.0	000.2500	0030.2	007.1	079.2	056.8905	0230.9	075.4	58.78
309.0	000.2500	0030.2	007.1	079.2	056.9573	0230.9	075.5	58.75
310.0	000.2500	0031.0	007.2	079.0	057.0767	0230.9	075.5	58.75
311.0	000.2500	0032.0	007.3	078.9	057.2070	0231.0	075.5	58.75
312.0	000.2500	0032.8	007.4	078.8	057.3235	0231.0	075.6	58.74
313.0	000.2500	0032.9	007.4	078.8	057.3946	0231.0	075.7	58.72
314.0	000.2500	0032.4	007.3	078.7	057.4252	0231.0	075.8	58.68
315.0	000.2500	0032.0	007.3	078.7	057.4611	0231.1	075.9	58.64
316.0	000.2500	0032.4	007.3	078.6	057.5448	0231.1	076.0	58.62
317.0	000.2500	0032.4	007.3	078.6	057.6000	0231.1	076.1	58.58
318.0	000.2500	0031.4	007.2	078.6	057.5864	0231.1	076.3	58.53
319.0	000.2500	0030.6	007.1	078.6	057.5787	0231.1	076.4	58.48
320.0	000.2500	0030.0	007.1	078.6	057.5890	0231.1	076.6	58.44
321.0	000.2500	0030.1	007.1	078.5	057.6414	0231.1	076.7	58.41
322.0	000.2500	0029.7	007.1	078.5	057.6845	0231.1	076.8	58.37
323.0	000.2500	0029.9	007.1	078.4	057.7300	0231.2	076.9	58.34

Exhibit 13.6 – Detailed Protection Study Toward WVGR(FM) – Grand Rapids, MI

06-17-2015

Terrain Data: NED 03 SEC

FMOver Analysis

WVGR BMLED20080306ABQ

W284AH

Channel = 281B
Max ERP = 96 kW
RCMSL = 469 M
N. Lat. 42 39 17.0
W. Lng. 85 31 38.0
Protected
54 dBu

Channel = 284D
Max ERP = 0.25 kW
RCMSL = 285.2 M
N. Lat. 42 44 19.0
W. Lng. 84 33 05.0
Interfering
94 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
023.0	089.6015	0235.5	079.5	323.2	000.2500	0029.7	079.9	24.06	
024.0	089.1754	0236.4	079.6	323.7	000.2500	0029.6	078.7	24.29	
025.0	088.7503	0237.1	079.6	324.2	000.2500	0029.4	077.5	24.52	
026.0	088.3262	0237.4	079.6	324.7	000.2500	0029.0	076.3	24.75	
027.0	087.9031	0236.0	079.4	325.1	000.2500	0028.8	075.0	25.00	
028.0	087.4811	0235.1	079.3	325.5	000.2500	0028.8	073.7	25.23	
029.0	087.0600	0234.5	079.2	325.9	000.2500	0029.0	072.4	25.46	
030.0	086.6400	0234.0	079.1	326.3	000.2500	0028.9	071.1	25.69	
031.0	086.4577	0233.6	079.0	326.7	000.2500	0028.6	069.8	25.92	
032.0	086.2756	0232.6	078.9	327.1	000.2500	0028.4	068.5	26.16	
033.0	086.0937	0230.9	078.7	327.5	000.2500	0028.4	067.2	26.40	
034.0	085.9119	0229.7	078.6	327.8	000.2500	0028.6	065.9	26.64	
035.0	085.7304	0229.1	078.5	328.3	000.2500	0028.4	064.6	26.88	
036.0	085.5491	0228.8	078.5	328.7	000.2500	0028.0	063.3	27.12	
037.0	085.3679	0226.7	078.3	329.0	000.2500	0027.8	062.0	27.39	
038.0	085.1869	0224.4	078.1	329.2	000.2500	0027.7	060.6	27.66	
039.0	085.0062	0222.3	077.8	329.5	000.2500	0027.7	059.3	27.94	
040.0	084.8256	0220.8	077.7	329.8	000.2500	0027.5	057.9	28.21	
041.0	084.4650	0219.4	077.5	330.0	000.2500	0027.5	056.6	28.50	
042.0	084.1052	0215.4	077.1	330.1	000.2500	0027.5	055.2	28.80	
043.0	083.7462	0213.2	076.9	330.2	000.2500	0027.5	053.8	29.09	
044.0	083.3879	0211.7	076.7	330.5	000.2500	0027.6	052.5	29.38	
045.0	083.0304	0210.4	076.5	330.7	000.2500	0027.8	051.2	29.67	
046.0	082.6737	0211.0	076.5	331.1	000.2500	0028.0	049.9	29.95	
047.0	082.3177	0211.6	076.5	331.5	000.2500	0028.2	048.6	30.23	
048.0	081.9625	0211.6	076.5	331.8	000.2500	0028.4	047.3	30.52	
049.0	081.6081	0212.3	076.5	332.2	000.2500	0028.3	046.0	30.82	
050.0	081.2544	0213.4	076.6	332.6	000.2500	0028.4	044.7	31.15	
051.0	080.6021	0216.5	076.8	333.2	000.2500	0029.0	043.4	31.49	
052.0	079.9525	0217.6	076.8	333.6	000.2500	0029.3	042.1	31.87	
053.0	079.3055	0218.2	076.8	333.9	000.2500	0029.6	040.8	32.27	
054.0	078.6612	0219.5	076.8	334.3	000.2500	0029.8	039.5	32.68	
055.0	078.0194	0220.6	076.8	334.6	000.2500	0029.7	038.2	33.11	
056.0	077.3803	0218.8	076.6	334.6	000.2500	0029.7	036.8	33.57	
057.0	076.7438	0217.5	076.4	334.5	000.2500	0029.7	035.4	34.05	
058.0	076.1100	0216.5	076.2	334.5	000.2500	0029.7	034.1	34.54	
059.0	075.4787	0217.4	076.2	334.7	000.2500	0029.7	032.8	35.04	
060.0	074.8501	0220.9	076.5	335.3	000.2500	0030.1	031.5	35.58	
061.0	074.0892	0220.7	076.3	335.3	000.2500	0030.1	030.1	36.18	
062.0	073.3321	0220.3	076.2	335.1	000.2500	0030.0	028.8	36.85	

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063.0	072.5789	0222.2	076.3	335.4	000.2500	0030.1	027.5	37.61
064.0	071.8296	0225.8	076.5	335.9	000.2500	0029.8	026.1	38.40
065.0	071.0842	0228.7	076.6	336.3	000.2500	0029.7	024.8	39.27
066.0	070.3427	0231.1	076.8	336.6	000.2500	0029.7	023.5	40.21
067.0	069.6050	0232.2	076.7	336.6	000.2500	0029.7	022.1	41.19
068.0	068.8713	0232.9	076.7	336.3	000.2500	0029.7	020.8	42.21
069.0	068.1414	0232.5	076.6	335.7	000.2500	0029.9	019.5	43.26
070.0	067.4154	0232.0	076.4	334.9	000.2500	0029.8	018.1	44.33
071.0	066.2301	0230.4	076.1	333.4	000.2500	0029.1	016.9	45.40
072.0	065.0552	0230.3	075.9	331.9	000.2500	0028.4	015.6	46.49
073.0	063.8908	0229.5	075.7	329.9	000.2500	0027.5	014.3	47.75
074.0	062.7370	0230.8	075.6	328.2	000.2500	0028.4	013.1	49.39
075.0	061.5937	0230.9	075.4	325.6	000.2500	0028.8	011.9	51.14
076.0	060.4609	0230.7	075.2	322.1	000.2500	0029.7	010.8	52.97
077.0	059.3386	0231.0	075.1	318.0	000.2500	0031.4	009.7	55.21
078.0	058.2268	0231.3	074.9	312.7	000.2500	0032.9	008.6	57.44
079.0	057.1256	0230.9	074.7	305.7	000.2500	0030.6	007.8	58.56
080.0	056.0348	0231.4	074.5	297.3	000.2500	0028.4	007.0	60.13
081.0	054.9255	0232.8	074.5	287.5	000.2500	0029.8	006.4	61.72
082.0	053.8273	0233.3	074.3	275.9	000.2500	0027.6	006.1	62.51
083.0	052.7402	0232.1	074.0	263.6	000.2500	0021.3	006.3	62.09
084.0	051.6642	0231.9	073.8	252.5	000.2500	0018.8	006.6	61.13
085.0	050.5993	0230.7	073.5	243.1	000.2500	0020.7	007.3	59.43
086.0	049.5455	0230.4	073.2	235.4	000.2500	0019.6	008.1	57.74
087.0	048.5027	0229.5	072.9	229.5	000.2500	0018.6	009.1	55.91
088.0	047.4711	0227.9	072.6	225.2	000.2500	0020.3	010.2	53.95
089.0	046.4505	0229.1	072.5	220.9	000.2500	0019.7	011.2	52.30
090.0	045.4410	0227.7	072.1	218.3	000.2500	0018.6	012.4	50.44
091.0	044.5865	0225.7	071.8	216.3	000.2500	0017.1	013.6	48.72
092.0	043.7400	0223.8	071.4	214.8	000.2500	0016.7	014.8	47.19
093.0	042.9017	0221.8	071.0	213.6	000.2500	0016.2	016.1	46.06
094.0	042.0714	0220.3	070.7	212.5	000.2500	0015.7	017.3	45.02
095.0	041.2493	0218.9	070.4	211.6	000.2500	0015.6	018.6	43.99
096.0	040.4353	0218.4	070.2	210.7	000.2500	0015.9	019.8	43.00
097.0	039.6294	0218.2	069.9	209.9	000.2500	0015.9	021.0	42.05
098.0	038.8316	0217.0	069.6	209.5	000.2500	0015.9	022.2	41.10
099.0	038.0419	0216.8	069.4	209.0	000.2500	0016.3	023.5	40.22
100.0	037.2604	0217.1	069.2	208.5	000.2500	0016.5	024.7	39.38
101.0	036.5698	0216.4	069.0	208.2	000.2500	0016.6	025.9	38.57
102.0	035.8858	0215.6	068.7	208.0	000.2500	0016.7	027.1	37.81
103.0	035.2081	0214.9	068.5	207.9	000.2500	0016.7	028.3	37.10
104.0	034.5370	0213.6	068.2	207.9	000.2500	0016.7	029.6	36.45
105.0	033.8723	0212.2	067.9	208.0	000.2500	0016.7	030.8	35.86
106.0	033.2140	0210.3	067.5	208.2	000.2500	0016.6	032.0	35.34
107.0	032.5622	0208.6	067.1	208.4	000.2500	0016.5	033.2	34.87
108.0	031.9169	0208.0	066.9	208.5	000.2500	0016.5	034.4	34.42
109.0	031.2780	0206.3	066.5	208.8	000.2500	0016.4	035.6	33.98
110.0	030.6456	0205.5	066.2	208.9	000.2500	0016.3	036.8	33.56
111.0	030.2240	0203.7	065.9	209.1	000.2500	0016.2	038.0	33.16
112.0	029.8053	0201.1	065.6	209.5	000.2500	0015.9	039.2	32.77
113.0	029.3895	0200.7	065.4	209.6	000.2500	0015.9	040.4	32.40
114.0	028.9767	0200.3	065.2	209.6	000.2500	0015.9	041.5	32.05
115.0	028.5667	0200.0	065.0	209.7	000.2500	0015.9	042.7	31.71
116.0	028.1597	0199.3	064.8	209.9	000.2500	0015.9	043.8	31.39
117.0	027.7556	0199.9	064.8	210.0	000.2500	0015.9	044.9	31.09
118.0	027.3545	0199.2	064.5	210.2	000.2500	0016.0	046.1	30.80
119.0	026.9562	0201.0	064.6	210.1	000.2500	0016.0	047.2	30.54

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120.0	026.5609	0201.2	064.4	210.3	000.2500	0016.0	048.3	30.28
121.0	026.9054	0200.2	064.5	210.2	000.2500	0016.0	049.4	30.04
122.0	027.2521	0199.3	064.5	210.3	000.2500	0016.0	050.6	29.80
123.0	027.6010	0199.3	064.6	210.2	000.2500	0016.0	051.7	29.55
124.0	027.9521	0197.9	064.6	210.3	000.2500	0016.0	052.8	29.31
125.0	028.3055	0196.9	064.7	210.3	000.2500	0016.0	054.0	29.06
126.0	028.6611	0196.1	064.7	210.4	000.2500	0015.9	055.1	28.82
127.0	029.0189	0197.0	064.9	210.3	000.2500	0016.0	056.2	28.58
128.0	029.3789	0196.5	065.0	210.4	000.2500	0015.9	057.4	28.34
129.0	029.7411	0195.8	065.0	210.5	000.2500	0015.9	058.5	28.10
130.0	030.1056	0196.2	065.2	210.6	000.2500	0015.9	059.6	27.86
131.0	030.6456	0194.8	065.2	210.7	000.2500	0015.9	060.8	27.63
132.0	031.1904	0194.9	065.4	210.8	000.2500	0015.9	061.9	27.40
133.0	031.7400	0194.1	065.5	210.9	000.2500	0015.8	063.0	27.18
134.0	032.2944	0194.9	065.7	211.0	000.2500	0015.8	064.2	26.95
135.0	032.8536	0196.2	066.0	211.0	000.2500	0015.8	065.4	26.73
136.0	033.4176	0195.7	066.1	211.1	000.2500	0015.6	066.5	26.52
137.0	033.9864	0196.5	066.4	211.2	000.2500	0015.6	067.7	26.30
138.0	034.5600	0196.9	066.6	211.3	000.2500	0015.6	068.9	26.09
139.0	035.1384	0196.2	066.7	211.5	000.2500	0015.6	070.0	25.89
140.0	035.7216	0194.6	066.7	211.8	000.2500	0015.7	071.1	25.69
141.0	036.1916	0195.5	066.9	212.0	000.2500	0015.6	072.3	25.48
142.0	036.6647	0194.2	066.9	212.3	000.2500	0015.7	073.4	25.28