

WPON.L

Freq: 1460 kHz

Class: B

Latitude: 42-32-38 N

Longitude: 083-29-58 W

Power: 1 kW

RMS: 299.07 mV/m @1km

Towers: 4

Augs: 0

— 0.5 mV/m

— 0.025 mV/m

Exhibit 15.1

Present Domestic

Allocation Study

WPON - Walled Lake, MI

Co-channel Stations

WBRN.L

WPON.L

WKAM.L

WBKC.L

WBNS.L



MUNN-REESE, INC.
Broadcast Engineering Consultants
Coldwater, MI 49036
1(517)278-7339

Scale 1:3,000,000

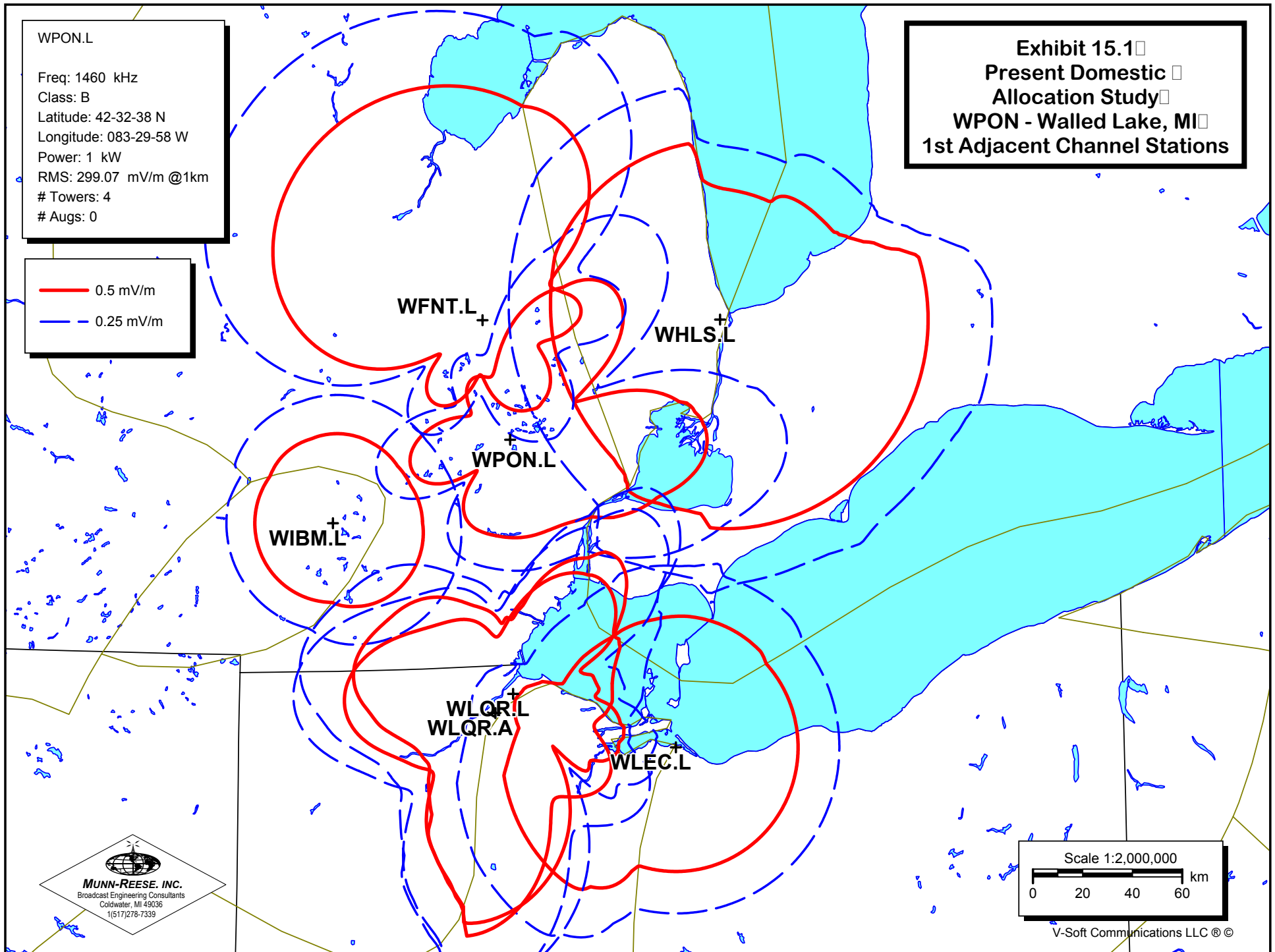
0 40 80 120 km

V-Soft Communications LLC ©

Exhibit 15.1
Present Domestic
Allocation Study
WPON - Walled Lake, MI
1st Adjacent Channel Stations

WPON.L
Freq: 1460 kHz
Class: B
Latitude: 42-32-38 N
Longitude: 083-29-58 W
Power: 1 kW
RMS: 299.07 mV/m @1km
Towers: 4
Augs: 0

— 0.5 mV/m
- - 0.25 mV/m



WPON.L

Freq: 1460 kHz

Class: B

Latitude: 42-32-38 N

Longitude: 083-29-58 W

Power: 1 kW

RMS: 299.07 mV/m @1km

Towers: 4

Aucs: 0

— 25.0 mV/m

— 5.0 mV/m

Exhibit 15.1
Present Domestic
Allocation Study
WPON - Walled Lake, MI
2nd & 3rd Adjacent Channel Stations

+ WPON.L

+
WSDS.L
WSDS.A

+
WMKM.L



MUNN-REESE, INC.
Broadcast Engineering Consultants
Coldwater, MI 49036
1(517)278-7339

Scale 1:500,000

0 7 14 21 km

V-Soft Communications LLC ©

Exhibit 15.1

Tabulation of Present Daytime

Map M-3 Allocation

AM Daytime Study

Reference Station:

Call: WPON.L

Freq: 1460 kHz

WALLED LAKE, MI, US

Lat: 42-32-38 N

Power: 1.0 kW

Lng: 083-29-58 W

Theo RMS: 299.07 mV/m @ 1km

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swtch	TL Swtch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	90.0	0	0	0.0	0.0	0.0	0.0
2	0.750	144.0	344.0	143.0	90.0	0	0	0.0	0.0	0.0	0.0
3	0.600	-114.0	90.0	58.0	90.0	0	0	0.0	0.0	0.0	0.0
4	0.450	30.0	344.0	143.0	90.0	1	0	0.0	0.0	0.0	0.0

Call	Freq	City	ST	Dist	Azi	In	Out
WMKM.L	1440	INKSTER	MI	33.9	160.7	14.71	14.71
WLEC.L	1450	SANDUSKY	OH	139.8	151.5	30.65	35.70
WIBM.L	1450	JACKSON	MI	79.0	244.1	-190.75	-170.25
WHLS.L	1450	PORT HURON	MI	97.4	60.8	-3238.11	-3795.48
WKAM.L	1460	GOSHEN	IN	219.0	240.3	41.01	74.67
WBRN.L	1460	BIG RAPIDS	MI	204.0	307.0	-3502.50	58.13
WBKC.L	1460	PAINESVILLE	OH	207.4	116.3	-990.63	-95.16
WBNS.L	1460	COLUMBUS	OH	292.1	170.4	-438.13	60.90
WFNT.L	1470	FLINT	MI	49.0	346.4	-2138.75	-1678.50
WLQR.A	1470	WALBRIDGE	OH	109.2	182.7	0.00	25.93
WLQR.L	1470	TOLEDO	OH	101.3	179.0	-5.62	0.00
WSDS.A	1480	PLYMOUTH	MI	32.9	197.5	-16.75	-16.75
WSDS.L	1480	SALEM TOWNS	MI	32.9	197.5	-16.75	-16.75
WABJ.L	1490	ADRIAN	MI	83.1	210.6	72.21	72.21

Highlighting denotes areas which have been manually adjusted to remove overlap over water and Canadian soil

Negative values in the "In" and "Out" columns reflect km² areas of Incoming and Outgoing overlap respectively. Positive values reflect linear distance of clearance to the offending contour. In response to FCC attempts to streamline the application process, tabulations of distances to contours and Map M-3 Conductivities for each station have been omitted. These tabulations will be supplied upon request.

Munn-Reese, Inc.

Broadcast Engineering Consultants
Coldwater, MI 49036

WPON.L

Freq: 1460 kHz
Class: B
Latitude: 42-32-38 N
Longitude: 083-29-58 W
Power: 1 kW
RMS: 299.07 mV/m @1km
Towers: 4
Augs: 0

0.5 mV/m
0.025 mV/m

Exhibit 15.2
Present Region 2 Allocation Study
WPON - Walled Lake, MI

CJOY⁺

WPON.L⁺

Scale 1:2,000,000

0 20 40 60 km

V-Soft Communications LLC ©



MUNN-REESE, INC.
Broadcast Engineering Consultants
Coldwater, MI 49036
1(517)278-7339

Exhibit 15.2

Tabulation of Present Daytime

Region 2 Allocation

AM Daytime Study

Reference Station:

Call: WPON.L

Freq: 1460 kHz

WALLED LAKE, MI, US

Lat: 42-32-38 N

Power: 1.0 kW

Lng: 083-29-58 W

Theo RMS: 299.07 mV/m @ 1km

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swch	TL Swch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	90.0	0	0	0.0	0.0	0.0	0.0
2	0.750	144.0	344.0	143.0	90.0	0	0	0.0	0.0	0.0	0.0
3	0.600	-114.0	90.0	58.0	90.0	0	0	0.0	0.0	0.0	0.0
4	0.450	30.0	344.0	143.0	90.0	1	0	0.0	0.0	0.0	0.0

Call	Freq	City	ST	Dist	Azi	In	Out
CJOY	1460	GUELPH	ON	285.2	69.6	-15.00	26.41
CJOY	1460	GUELPH	ON	285.2	69.6	-23.25	27.28

Negative values in the "In" and "Out" columns reflect km² areas of Incoming and Outgoing overlap respectively. Positive values reflect linear distance of clearance to the offending contour. In response to FCC attempts to streamline the application process, tabulations of distances to contours and Map M-3 Conductivities for each station have been omitted. These tabulations will be supplied upon request.

Munn-Reese, Inc.

Broadcast Engineering Consultants
Coldwater, MI 49036

WPON.prop

Freq: 1460 kHz

Class: B

Latitude: 42-32-39 N

Longitude: 083-33-36 W

Power: 0.67 kW

RMS: 235.789 mV/m @1km

Towers: 4

Augs: 0

— 0.5 mV/m

— 0.025 mV/m

Exhibit 15.3
Proposed Domestic Allocation
Study
WPON - Walled Lake, MI
Co-channel Stations

WBRN.L

WPON.prop

WKAM.L

WBKC.L

WBNS.L

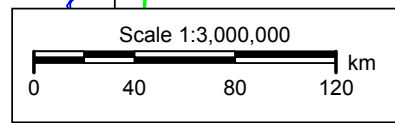
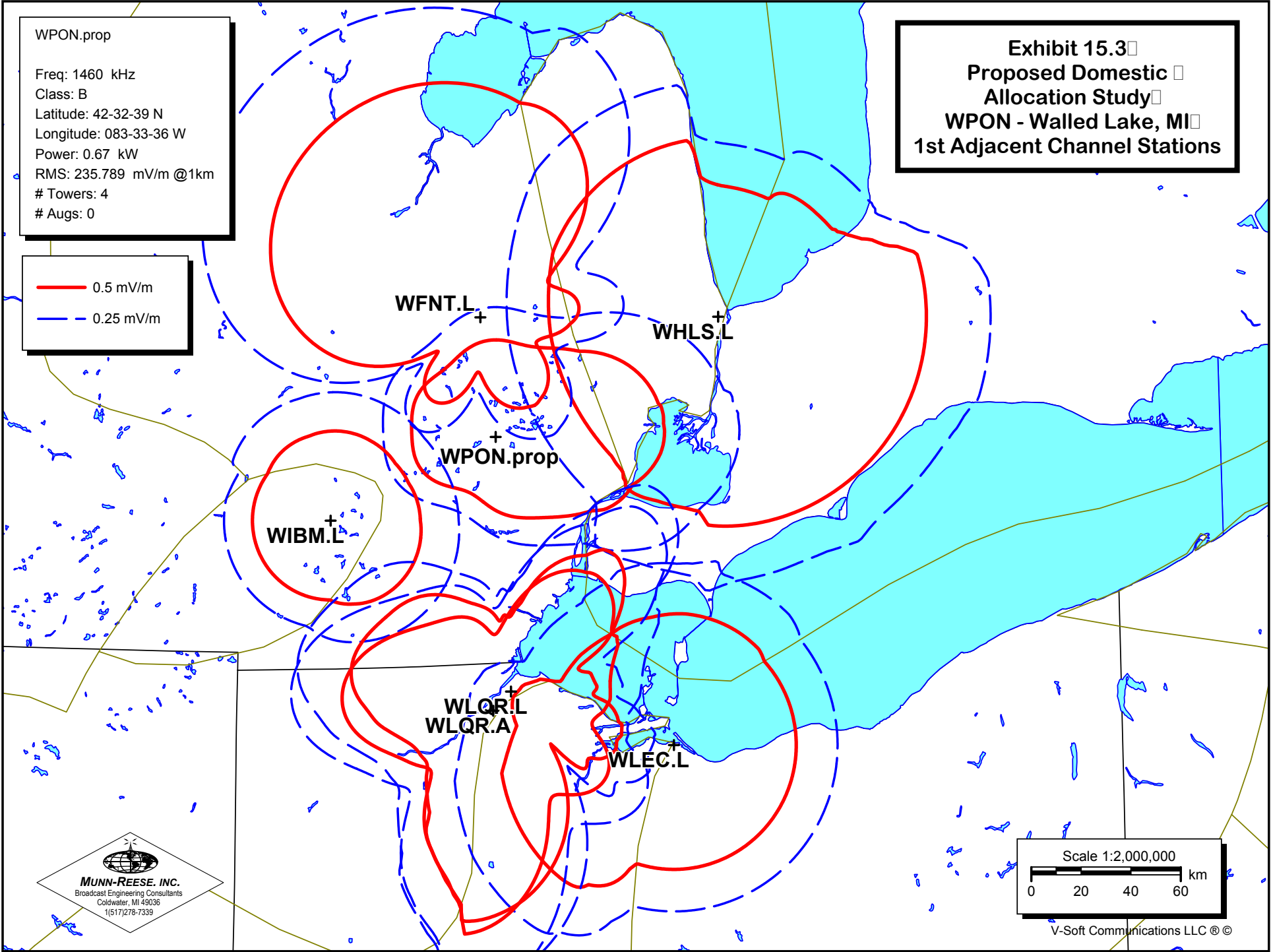


Exhibit 15.3
Proposed Domestic
Allocation Study
WPON - Walled Lake, MI
1st Adjacent Channel Stations

WPON.prop
Freq: 1460 kHz
Class: B
Latitude: 42-32-39 N
Longitude: 083-33-36 W
Power: 0.67 kW
RMS: 235.789 mV/m @1km
Towers: 4
Augs: 0

— 0.5 mV/m
- - 0.25 mV/m



WPON.prop

Freq: 1460 kHz

Class: B

Latitude: 42-32-39 N

Longitude: 083-33-36 W

Power: 0.67 kW

RMS: 235.789 mV/m @1km

Towers: 4

Aucs: 0

— 25.0 mV/m

— 5.0 mV/m

Exhibit 15.3
Proposed Domestic
Allocation Study
WPON - Walled Lake, MI
2nd & 3rd Adjacent Channel Stations

+
WPON.prop

+
WSDS.L
WSDS.A

+
WMKM.L

MUNN-REESE, INC.
Broadcast Engineering Consultants
Coldwater, MI 49036
1(517)278-7339

Scale 1:500,000

0 7 14 21 km

V-Soft Communications LLC ©

Exhibit 15.3

Tabulation of Proposed Daytime

Map M-3 Allocation

AM Daytime Study

Reference Station:

Call: WPON.prop Freq: 1460 kHz WALLED LAKE, MI, US
 Lat: 42-32-39 N Power: 0.67 kW
 Lng: 083-33-36 W Theo RMS: 235.79 mV/m @ 1km

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swtch	TL Swtch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	104.0	0	0	0.0	0.0	0.0	0.0
2	0.630	-71.0	113.2	63.5	104.0	0	0	0.0	0.0	0.0	0.0
3	0.530	-6.0	186.0	173.0	104.0	0	0	0.0	0.0	0.0	0.0
4	0.334	-77.0	113.2	63.5	104.0	1	0	0.0	0.0	0.0	0.0

Call	Freq	City	ST	Dist	Azi	In	Out
WMKM.L	1440	INKSTER	MI	35.9	153.2	18.31	18.31
WLEC.L	1450	SANDUSKY	OH	142.3	149.7	35.70	41.41
WIBM.L	1450	JACKSON	MI	74.5	242.5	-168.75	-61.00
WHLS.L	1450	PORT HURON	MI	101.8	62.2	-2307.77	-2621.30
WKAM.L	1460	GOSHEN	IN	214.7	239.7	42.16	85.12
WBRN.L	1460	BIG RAPIDS	MI	200.1	307.9	-2994.00	9.76
WBKC.L	1460	PAINESVILLE	OH	211.9	115.7	-804.62	0.00
WBNS.L	1460	COLUMBUS	OH	293.1	169.4	-192.45	89.49
WFNT.L	1470	FLINT	MI	48.1	352.1	-1741.50	-1607.00
WLQR.A	1470	WALBRIDGE	OH	109.1	180.1	39.10	39.47
WLQR.L	1470	TOLEDO	OH	101.6	176.2	-3.13	30.73
WSDS.A	1480	PLYMOUTH	MI	31.8	188.8	0.00	0.00
WSDS.L	1480	SALEM TOWNS	MI	31.8	188.8	0.00	0.00
WABJ.L	1490	ADRIAN	MI	80.7	207.5	71.69	71.69

Highlighting denotes areas which have been manually adjusted to remove overlap over water and Canadian soil

Negative values in the "In" and "Out" columns reflect km² areas of Incoming and Outgoing overlap respectively. Positive values reflect linear distance of clearance to the offending contour. In response to FCC attempts to streamline the application process, tabulations of distances to contours and Map M-3 Conductivities for each station have been omitted. These tabulations will be supplied upon request.

Munn-Reese, Inc.

Broadcast Engineering Consultants
Coldwater, MI 49036

WPON.prop

Freq: 1460 kHz

Class: B

Latitude: 42-32-39 N

Longitude: 083-33-36 W

Power: 0.67 kW

RMS: 235.789 mV/m @1km

Towers: 4

Aucs: 0

Exhibit 15.4
Proposed Region 2 Allocation Study
WPON - Walled Lake, MI

— 0.5 mV/m
— 0.025 mV/m

CJOY⁺

WPON.prop⁺



MUNN-REESE, INC.
Broadcast Engineering Consultants
Coldwater, MI 49036
1(517)278-7339

Scale 1:2,000,000

0 20 40 60 km

V-Soft Communications LLC ©

Exhibit 15.4

Tabulation of Proposed Daytime

Region 2 Allocation

AM Daytime Study

Reference Station:

Call: WPON.prop

Freq: 1460 kHz

WALLED LAKE, MI, US

Lat: 42-32-39 N

Power: 0.67 kW

Lng: 083-33-36 W

Theo RMS: 235.79 mV/m @ 1km

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swrch	TL Swrch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	104.0	0	0	0.0	0.0	0.0	0.0
2	0.630	-71.0	113.2	63.5	104.0	0	0	0.0	0.0	0.0	0.0
3	0.530	-6.0	186.0	173.0	104.0	0	0	0.0	0.0	0.0	0.0
4	0.334	-77.0	113.2	63.5	104.0	1	0	0.0	0.0	0.0	0.0

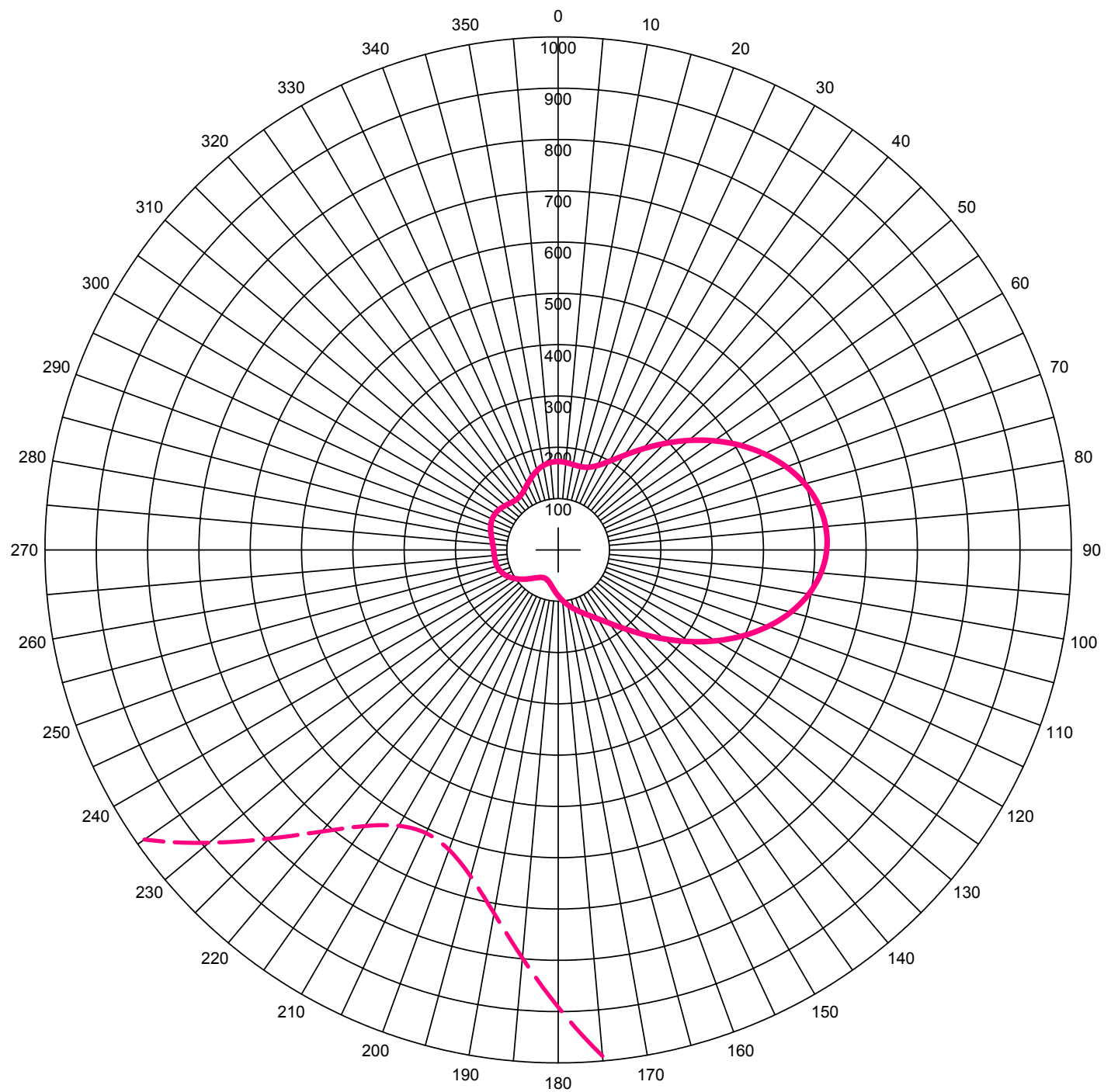
Call	Freq	City	ST	Dist	Azi	In	Out
CJOY	1460	GUELPH	ON	289.7	70.0	8.57	0.00
CJOY	1460	GUELPH	ON	289.7	70.0	11.00	3.61

Negative values in the "In" and "Out" columns reflect km² areas of Incoming and Outgoing overlap respectively. Positive values reflect linear distance of clearance to the offending contour. In response to FCC attempts to streamline the application process, tabulations of distances to contours and Map M-3 Conductivities for each station have been omitted. These tabulations will be supplied upon request.

Munn-Reese, Inc.

Broadcast Engineering Consultants
Coldwater, MI 49036

Exhibit 15.5 - Polar Plot of Proposed Daytime Directional Standard Pattern



Theo RMS: 235.789 mV/m@1km
Std RMS: 247.801 mV/m@1km
Q: 10.0 mV/m@1km

Horizontal Plane Standard Pattern

—— Pattern (mV/m @ 1km)
- - - Pattern X10

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Switch	TL Switch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	104.0	0	0	0.0	0.0	0.0	0.0
2	0.630	-71.0	113.2	63.5	104.0	0	0	0.0	0.0	0.0	0.0
3	0.530	-6.0	186.0	173.0	104.0	0	0	0.0	0.0	0.0	0.0
4	0.334	-77.0	113.2	63.5	104.0	1	0	0.0	0.0	0.0	0.0

Call: WPON.prop
Freq: 1460 kHz
WALLED LAKE, MI, US
Lat: 42-32-39 N
Lng: 083-33-36 W
Power: 0.67 kW
Theo RMS: 235.79 mV/m @ 1km

Munn-Reese, Inc.
Broadcast Engineering Consultants
Coldwater, MI 49036

Exhibit 15.6

Tabulation of Proposed Daytime Directional Standard Pattern

Call: WPON.prop
 Freq: 1460 kHz
 WALLED LAKE, MI, US
 Lat: 42-32-39 N
 Lng: 083-33-36 W
 Power: 0.67 kW
 Theo RMS: 235.79 mV/m @ 1km

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Swtch	TL Swtch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	104.0	0	0	0.0	0.0	0.0	0.0
2	0.630	-71.0	113.2	63.5	104.0	0	0	0.0	0.0	0.0	0.0
3	0.530	-6.0	186.0	173.0	104.0	0	0	0.0	0.0	0.0	0.0
4	0.334	-77.0	113.2	63.5	104.0	1	0	0.0	0.0	0.0	0.0

Standard Horizontal Plane Pattern

Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)	Azimuth (Deg)	Field (mV/m @1km)
0.0	172.23	120.0	354.46	240.0	107.36
5.0	171.06	125.0	311.39	245.0	114.74
10.0	168.95	130.0	269.92	250.0	120.00
15.0	168.17	135.0	232.27	255.0	123.06
20.0	171.49	140.0	200.17	260.0	124.38
25.0	181.46	145.0	174.50	265.0	124.92
30.0	199.43	150.0	155.01	270.0	125.82
35.0	225.14	155.0	140.43	275.0	127.97
40.0	257.10	160.0	128.93	280.0	131.54
45.0	293.36	165.0	118.81	285.0	135.84
50.0	331.91	170.0	108.98	290.0	139.67
55.0	370.86	175.0	99.03	295.0	141.84
60.0	408.46	180.0	89.15	300.0	141.58
65.0	443.08	185.0	79.88	305.0	138.86
70.0	473.20	190.0	71.93	310.0	134.49
75.0	497.41	195.0	65.91	315.0	130.06
80.0	514.47	200.0	62.19	320.0	127.51
85.0	523.36	205.0	60.92	325.0	128.48
90.0	523.35	210.0	62.11	330.0	133.45
95.0	514.15	215.0	65.72	335.0	141.52
100.0	495.91	220.0	71.67	340.0	150.95
105.0	469.35	225.0	79.60	345.0	159.89
110.0	435.69	230.0	88.83	350.0	166.87
115.0	396.68	235.0	98.43	355.0	171.03