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GMC READYMIX CORP. (GMC) USES SYSTEM PERFORMANCE SUMMATION FROM RECORDINGS DATED JUNE 8, 2018 PER TIMED-INTERVAL-SAMPLING (TIS)

The Amprobe DM II Pro Data Logger recorded graphs on June 8, 2018 with (2) XL-3D 240volt USES units installed at the Equipment Distribution Panel of GMC during the period of 9:30PM to 10:00PM at 5-minute intervals. (See individual graphs calculations for averages).

The Amprobe measurements and recording for this Timed-Interval-Sampling was placed at the exterior Main Circuit Breaker location to more accurately measure the results that will be seen by the utility meter.

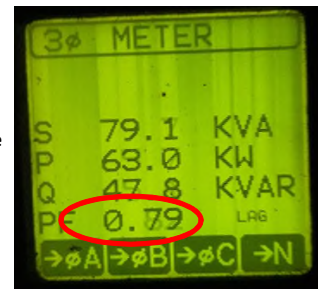
GRAPH TITLE	USES OFF(per ave. calcs)	USES ON(per ave. calcs)	Change
APPARENT POWER (KVA)	83.7	69.2	-14.5 kVA
CURRENT (Amps per phase)	205.4	169.1	-36.3 Amps
REACTIVE POWER (KVAR)	71.2	54.0	-17.2 kVAR
LINE-TO-NEUTRAL VOLTAGE (Volts)	136.5	137.1	+0.6 Volts
TRUE POWER FACTOR (%)	51.9	61.7	9.8 Points

Notes:

1. During the time of this recording, the plant was running at normal full load according to the plant's electrical staff and both USES units were "on."
2. Significant load changes were observed during the TIS which are attributed to large equipment cycling on and off.

POWER FACTOR RATIONALE

The initial power assessment for the GMC plant was conducted on the evening of April 27, 2018. It was done at 9:10PM per advice of GMC management that full plant operations peaked during nighttime. The existing capacitors were also deemed unserviceable as they had no effect on the readings whether they were turned on or off. The power factor taken on this date was measured at 0.79 (see photo at right). Additionally, it was mentioned by Plant Supervisor Mr. Rey Asareno during the assessment that some of their heavy equipment were not running due to maintenance activities.



After Solrev's commissioning of the USES units on June 8, 2018, readings were again taken and the power factor was observed at 0.52 when the USES® were off and 0.62 when the USES® were on. The lower factor is due to the additional load that was not running during the original power assessment.

The proposal reflected a projected increase in the power factor of 9 points improvement (0.79 to 0.88). Actual achieved was 9.8 or 10 points. Should GMC desire a higher power factor, a third USES® unit could be added in the future.

SAVINGS CALCULATIONS

GMC REDUCTION FORMULA

Ampere Reduction x $\sqrt{3}$ (or 1.732) x Line-to-line voltage x New Power Factor x Time = kWh

36.3 (Amps) x 1.732 x 237.5 (Volts) x 0.617 (PF) x 1(hr) = 9,211 Wh or 9.21 kWh for 2 USES units in operation

$$\begin{aligned} \text{Generated kWh per USES® unit} &= 9.21 \text{ kWh} \div 2 \text{ D-USES® units} \\ &= 4.60 \text{ kWh output per D USES® unit.} \end{aligned}$$

PROJECTED vs. ACTUAL kWh OUTPUT PER UNIT

	<u>PROJECTED KWH</u>	<u>ACTUAL KWH</u>
XL-D 240V	3.25	4.60

ACTUAL REDUCTION CALCULATION @ 100% 30-days/24-hour AND 18-hour OPERATION FOR EACH UNIT RESPECTIVELY.

$$\begin{aligned} (1) \text{ XL-3D Unit} \times 4.60 \text{ kWh} \times 30 \text{ days} \times 24 \text{ hours} &= 3,312.0 \text{ kWh} \\ (1) \text{ XL-3D Unit} \times 4.60 \text{ kWh} \times 30 \text{ days} \times 18 \text{ hours} &= 2,484.0 \text{ kWh} \\ \hline &= 5,796.0 \text{ kWh (Total per month)} \\ \times \text{ ₱ } 8.33 \text{ (Average rate based on received power bills)} & \\ \hline &= \text{ ₱ } 20,691.72 \text{ Monthly Savings} \end{aligned}$$

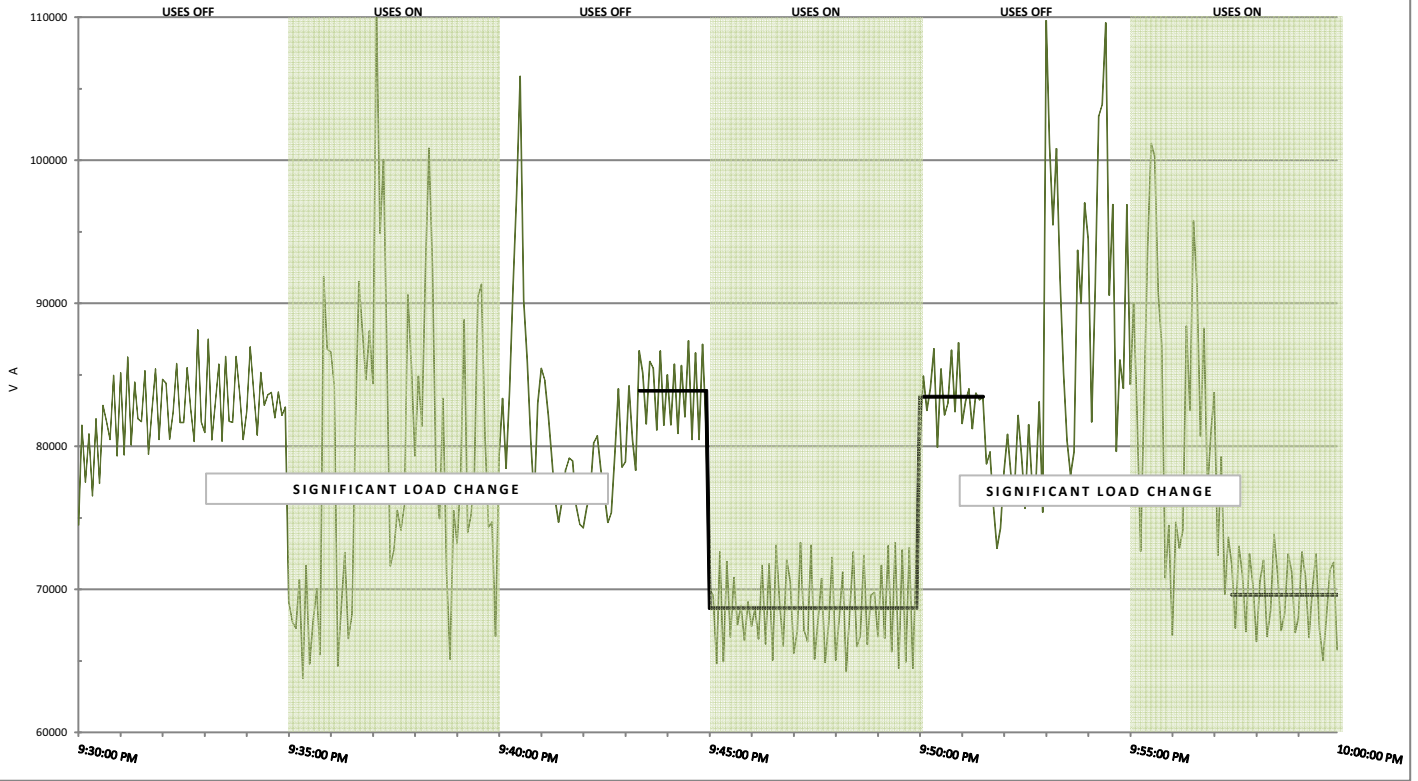
This will result in an actual 19-month ROI

Additional savings from reduced maintenance, extended motor life and all electronics protection from voltage stabilization, phase balancing, harmonic current reduction and surge, spike, lightning protection will also be substantial yet incalculable.

The KW comparisons and graphs are not used for this summation due to the fact that the data logger does not measure KW same as the utility meter.

All data is based on the loads and operation hours per day per above information. All reductions are based on the total number of USES units in operation times number of hours each USES unit is operating.

GMC READY MIX CORP. APPARENT POWER (VA) JUNE 8, 2018
 06/08/2018 9:30PM - 06/08/2018 10:00PM



DIFFERENCE AVERAGING:

USES OFF	83.9	83.5	167.4 /2	83.7
USES ON	68.7	69.6	138.3 /2	69.2
TOTALS	-15.2	-13.9	-29.1 /2	-14.5 KVA AVERAGE REDUCTION

ABOVE DATA IS FROM OPERATION OF (2) XL-3D 240V USES UNITS
 DATA FROM 9:30PM TO 9:43PM AND 9:51PM TO 9:57PM WAS NOT USED IN THIS AVERAGING DUE TO SIGNIFICANT LOAD CHANGES OCCURRING

GMC READY MIX CORP. CURRENT (AMPERES) JUNE 8, 2018
 06/08/2018 9:30PM - 06/08/2018 10:00PM

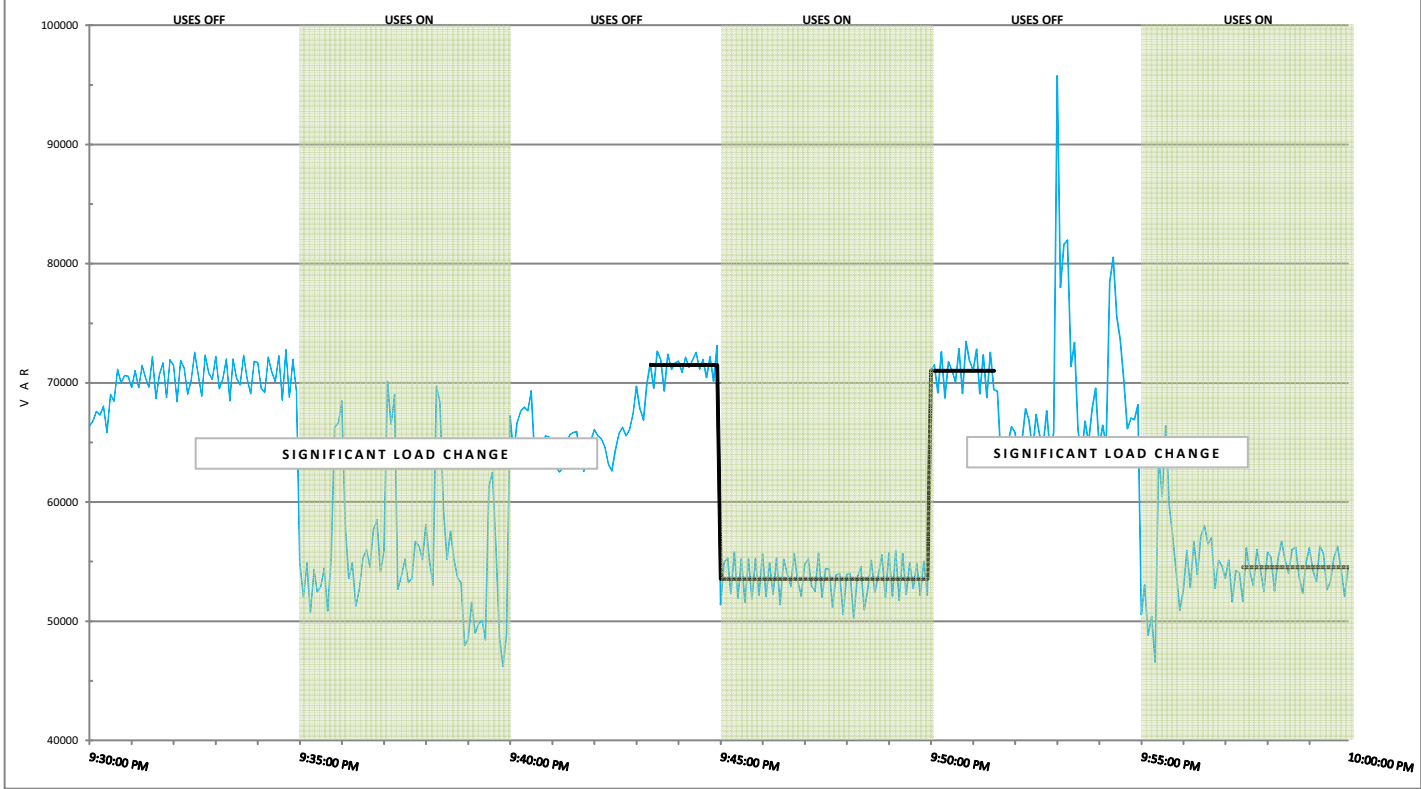


DIFFERENCE AVERAGING:

USES OFF	205.9	205.0	410.9 /2	205.4
USES ON	168.3	170.0	338.2 /2	169.1
TOTALS	-37.6	-35.1	-72.7 /2	-36.3 AMPERE AVERAGE REDUCTION

ABOVE DATA IS FROM OPERATION OF (2) XL-3D 240V USES UNITS
 DATA FROM 9:30PM TO 9:43PM AND 9:51PM TO 9:57PM WAS NOT USED IN THIS AVERAGING DUE TO SIGNIFICANT LOAD CHANGES OCCURRING

GMC READY MIX CORP. REACTIVE POWER (VAR) JUNE 8, 2018
 06/08/2018 9:30PM - 06/08/2018 10:00PM

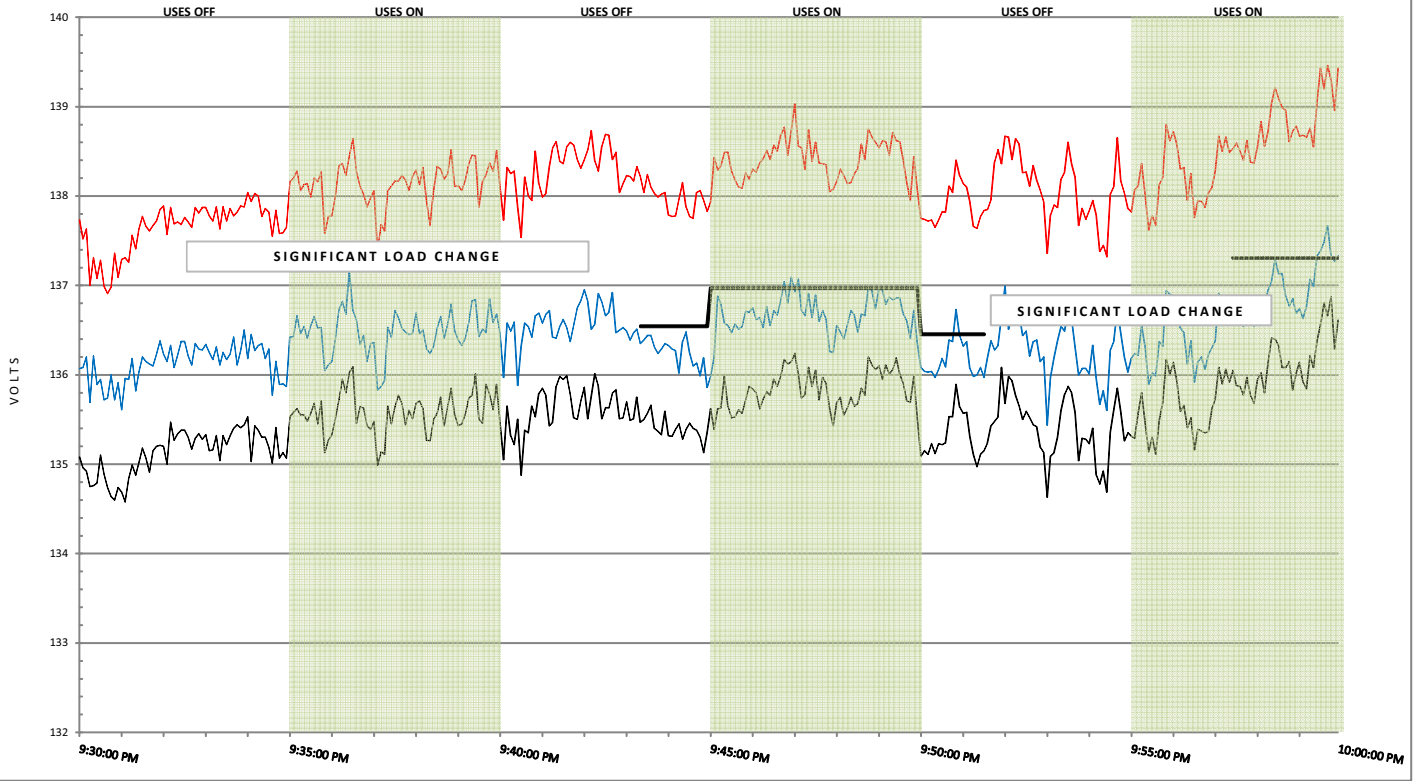


DIFFERENCE AVERAGING:

USES OFF	71.5	71.0	142.5 /2	71.2
USES ON	53.6	54.5	108.1 /2	54.0
TOTALS	-17.9	-16.5	-34.4 /2	-17.2 KVAR AVERAGE REDUCTION

ABOVE DATA IS FROM OPERATION OF (2) XL-3D 240V USES UNITS
 DATA FROM 9:30PM TO 9:43PM AND 9:51PM TO 9:57PM WAS NOT USED IN THIS AVERAGING DUE TO SIGNIFICANT LOAD CHANGES OCCURRING

GMC READY MIX CORP. VOLTAGE (VOLTS) JUNE 8, 2018
 06/08/2018 9:30PM - 06/08/2018 10:00PM

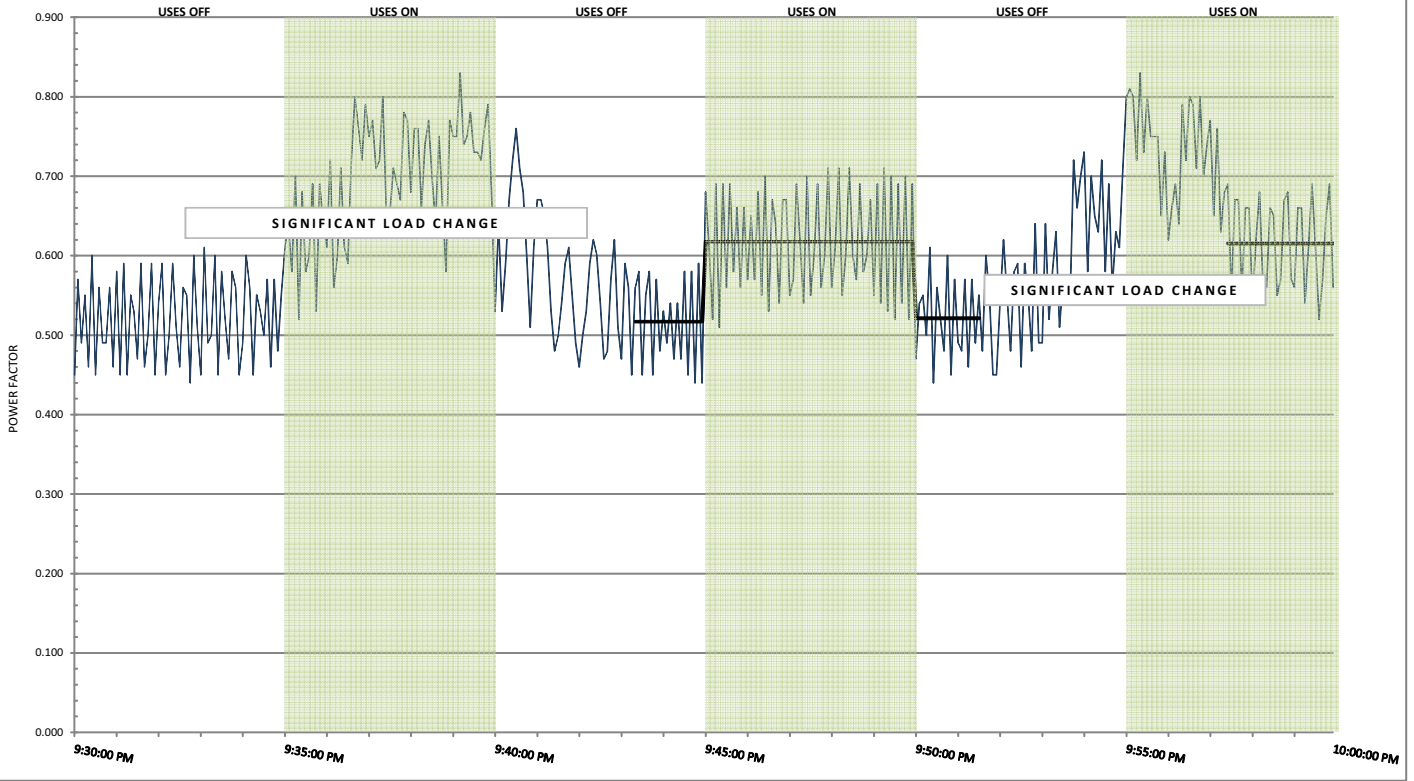


DIFFERENCE AVERAGING:

USES OFF	136.5	136.5	273.0 /2	136.5
USES ON	137.0	137.3	274.3 /2	137.1
TOTALS	0.4	0.9	1.3 /2	0.6 VOLTAGE AVERAGE INCREASE

ABOVE DATA IS FROM OPERATION OF (2) XL-3D 240V USES UNITS
 DATA FROM 9:30PM TO 9:43PM AND 9:51PM TO 9:57PM WAS NOT USED IN THIS AVERAGING DUE TO SIGNIFICANT LOAD CHANGES OCCURRING

GMC READY MIX CORP. TRUE POWER FACTOR JUNE 8, 2018
 06/08/2018 9:30PM - 06/08/2018 10:00PM



DIFFERENCE AVERAGING:

USES OFF	0.517	0.521	1.038 /2	0.519
USES ON	0.618	0.615	1.233 /2	0.617
TOTALS	10.1	9.4	34.6 /2	9.8 POINTS AVERAGE INCREASE

ABOVE DATA IS FROM OPERATION OF (2) XL-3D 240V USES UNITS
 DATA FROM 9:30PM TO 9:43PM AND 9:51PM TO 9:57PM WAS NOT USED IN THIS AVERAGING DUE TO SIGNIFICANT LOAD CHANGES OCCURRING

NUMERICAL DATA FROM AMPROBE DOWNLOAD SUITE

Date & time	RMS Voltage			RMS			Real	Reactive	Apparen	True	USES
	Ø1 (V)	Ø2 (V)	Ø3 (V)	Ø1 (A)	Ø2 (A)	Ø3 (A)	Total	Total	Total	Total	
9:30:00 PM	135.08	137.73	136.07	178.32	198.38	172.05	33868.6	66358.7	74502.1	0.450	OFF
	134.96	137.52	136.08	193.03	221.62	186.93	46586.9	66810.8	81449.5	0.570	OFF
	134.92	137.63	136.2	179.9	211.41	180.6	37923	67599.1	77510	0.490	OFF
	134.75	137	135.69	190.56	221.78	186.61	44802.8	67302.9	80851.5	0.550	OFF
	134.76	137.31	136.21	177.8	207.92	179.24	35056.7	68037	76537.6	0.460	OFF
	134.79	137.08	135.89	194.74	222.31	188.74	48733	65822.4	81899.3	0.600	OFF
	135.1	137.28	135.95	180.62	211.7	179.48	35035.3	69039.4	77420.3	0.450	OFF
	134.89	136.99	135.72	196.35	223.3	193.41	46627.2	68473.8	82841.8	0.560	OFF
	134.74	136.91	135.74	192.02	224.12	189.26	40279.1	71119.8	81733.9	0.490	OFF
	134.64	136.98	136	187.28	218.57	189.42	39678.5	70023.7	80484.2	0.490	OFF
	134.6	137.36	135.72	198.76	229.78	199.83	47221.5	70619.4	84952.7	0.560	OFF
	134.74	137.09	135.91	184.81	215.7	186.06	36315.4	70544.4	79343.1	0.460	OFF
	134.69	137.29	135.61	198.93	231.76	199.08	48976.2	69619.5	85120.7	0.580	OFF
	134.58	137.31	135.96	184.97	216.58	185.14	35515.9	71005.5	79392.5	0.450	OFF
	134.84	137.26	135.95	204.66	234.06	198.51	50906	69581.2	86214.6	0.590	OFF
	134.99	137.56	136.18	185.85	218.23	186.66	36204.8	71451.3	80100.4	0.450	OFF
	134.88	137.41	135.82	198.74	231.91	194.17	46739.6	70375.3	84482.4	0.550	OFF
	135.02	137.63	136.03	193.81	223.27	188.02	43143.2	69648.8	81928.6	0.530	OFF
	135.18	137.77	136.2	191.75	220.83	189.65	38288.7	72207.7	81731.1	0.470	OFF
	135.07	137.66	136.15	200.01	231.45	197.25	50527	68680.2	85263.9	0.590	OFF
	134.91	137.61	136.12	185.37	214.64	185.9	36188.2	70718.1	79439.5	0.460	OFF
	135.15	137.67	136.1	195.14	223.56	190.28	40973.2	71644.6	82533.3	0.500	OFF
	135.2	137.72	136.23	200.14	232.59	196.81	50621.2	68771.7	85393.5	0.590	OFF
	135.21	137.85	136.38	187.65	217.61	186.99	36075.3	71926.5	80466.5	0.450	OFF
	135.2	137.89	136.23	200.25	229.91	194.03	45426.3	71468.9	84683.8	0.540	OFF
	135	137.57	136.15	199.92	229.63	193.69	49465.4	68409.1	84419.4	0.590	OFF
	135.47	137.87	136.33	187.39	218.52	186.44	36261.8	71879.3	80508.1	0.450	OFF
	135.27	137.69	136.08	195.2	221.75	190.43	41320	71264.7	82377.2	0.500	OFF
	135.34	137.71	136.22	201.77	231.36	198.81	50886.9	69064.2	85786.6	0.590	OFF
	135.38	137.68	136.37	191.07	224.45	186.64	41727.3	70196.4	81662.1	0.510	OFF
	135.38	137.76	136.37	189.79	222.62	188.95	37512	72542.9	81667.7	0.460	OFF
	135.3	137.71	136.21	201.47	231.85	196.65	48064.6	70683.2	85477	0.560	OFF
	135.17	137.65	136.11	195.47	222.81	191.22	45550.4	68896.7	82592.9	0.550	OFF
	135.29	137.87	136.35	186.32	219.6	185.72	35030.3	72313.8	80351.8	0.440	OFF
	135.34	137.81	136.29	206.69	239.21	203.38	52460.4	70817.5	88131.8	0.600	OFF
	135.28	137.87	136.28	191.44	220.58	190.02	41646.7	70294.8	81705.6	0.510	OFF
	135.33	137.87	136.34	188.33	220.13	187.69	36680.5	72189.4	80973.9	0.450	OFF
	135.15	137.78	136.25	205.83	239.35	199.9	53127	69503.4	87482.5	0.610	OFF
	135.16	137.72	136.17	185.83	220.17	187.24	39075.1	70334.9	80460.4	0.490	OFF
	135.32	137.88	136.31	195.45	225.08	191.18	41385.1	71993.1	83040.6	0.500	OFF
	135.04	137.63	136.11	201.3	235.95	195.85	51580.9	68486.3	85737.7	0.600	OFF
	135.32	137.88	136.25	187.33	219.58	184.88	35777.5	71971.7	80373.8	0.450	OFF
	135.22	137.72	136.17	202.91	233.91	199.27	49909.9	70371.6	86273.7	0.580	OFF
	135.32	137.86	136.23	193.56	220.93	188.04	42510.6	69834.6	81755.9	0.520	OFF
	135.4	137.78	136.42	190.44	221.7	189.24	38011.2	72312.4	81694.1	0.470	OFF
	135.44	137.82	136.11	204.36	233.58	197.75	49969.6	70336.5	86279.6	0.580	OFF
	135.41	137.89	136.27	194.84	231.23	191.64	47281.6	69070.5	83703.6	0.560	OFF
	135.44	137.88	136.5	188.35	219.36	184.39	36372.3	71780.1	80469.4	0.450	OFF
	135.53	138.04	136.18	194.09	224.66	188.21	40633.2	71715.7	82426.9	0.490	OFF
	135.03	137.94	136.45	203.69	238.24	198.76	52175.8	69531	86930.3	0.600	OFF
	135.43	138.03	136.27	194.19	228.74	194.23	47168.5	69225.3	83767.6	0.560	OFF
	135.38	138	136.33	187.27	221.04	186.28	36378.8	72146.3	80799.2	0.450	OFF
	135.3	137.77	136.35	198.21	231.69	197.57	47146.1	70896.7	85141.6	0.550	OFF
	135.3	137.86	136.18	195.71	227.06	188.38	44202.7	70095.9	82869.3	0.530	OFF
	135.19	137.82	136.29	197.01	228.18	191.38	42100.3	72236.3	83609.4	0.500	OFF

135.01	137.55	135.77	199.6	229.73	190.13	48143.3	68552.2	83768.7	0.570	OFF	
135.41	137.84	136.15	189.36	225.18	189.89	37772.8	72766.4	81986.2	0.460	OFF	
135.07	137.58	135.89	199.52	227.86	191.66	47838.1	68778.7	83779.4	0.570	OFF	
135.13	137.59	135.9	190.45	225.67	190.81	39696.2	71960.3	82183.2	0.480	OFF	
135.07	137.65	135.87	196.32	226.19	188.76	45259.7	69256.7	82734.1	0.550	OFF	
9:35:00 PM	135.53	138.16	136.42	160.15	190.08	158.57	41938.5	54864.8	69057.8	0.610	ON
135.58	138.2	136.43	160.78	186.85	151.57	43333.9	52016.3	67701.7	0.640	ON	
135.62	138.28	136.66	158.94	184.63	151.7	38901.2	54885.6	67273.6	0.580	ON	
135.55	138.06	136.46	167.31	191.2	161.42	49132.7	50783	70660.7	0.700	ON	
135.55	138.13	136.54	147.39	175.42	146.57	33393.3	54353.8	63792.2	0.520	ON	
135.48	138.14	136.41	168.58	197.54	161.69	48794.9	52452	71639.1	0.680	ON	
135.57	137.99	136.55	152.96	175.13	148.93	37354.3	52926	64780.4	0.580	ON	
135.68	138.2	136.65	157.13	186.16	155.68	40371.7	54455.7	67788.6	0.600	ON	
135.45	138.16	136.52	165.67	190.07	159.81	48121.9	50868.7	70023.8	0.690	ON	
135.71	138.27	136.53	152.38	180.09	148.76	34968.1	55320.8	65445.8	0.530	ON	
135.13	137.58	136.05	215.38	252.29	210.46	63552.8	66300.5	91840.7	0.690	ON	
135.27	137.77	136.11	206.15	238.22	196.52	55591.2	66633	86777.5	0.640	ON	
135.33	137.78	136.15	202.92	239.3	196.87	53048.6	68462.1	86609.5	0.610	ON	
135.51	138	136.4	198.81	230.25	190.37	60881.9	58074.4	84138.2	0.720	ON	
135.72	138.34	136.73	151.33	175.69	148.12	36137.7	53598.4	64643.1	0.560	ON	
135.95	138.36	136.82	160.79	186.66	157.49	41388.6	54907.4	68759.3	0.600	ON	
135.8	138.23	136.68	170.4	197.25	165.41	51322.5	51274.8	72547.3	0.710	ON	
136.03	138.46	137.16	157.53	182.02	149.38	40608.3	52744.6	66565.9	0.610	ON	
136.09	138.64	136.72	158.59	188.13	154.29	39991.7	55329.8	68269.5	0.590	ON	
135.46	138.27	136.61	193.42	219.22	184.34	58717.1	56009.2	81146.4	0.720	ON	
135.64	138.11	136.34	219.84	243.21	209.29	73495.6	54500.1	91497.9	0.800	ON	
135.63	138.02	136.44	211.47	237.51	199.58	66556.1	57736	88108.8	0.760	ON	
135.43	137.88	136.15	204.82	225.62	193.13	61179.9	58511.4	84655.6	0.720	ON	
135.39	137.98	136.35	211.72	235.59	200.59	69455.8	54140.9	88064.4	0.790	ON	
135.48	138.06	136.36	202.09	225.73	193.18	63168.8	55963.8	84393.4	0.750	ON	
134.99	137.4	135.83	264.38	303.85	250.46	85722.7	70098.3	110735	0.770	ON	
135.14	137.68	135.87	228.24	257.76	214.71	67650.9	66527.4	94881.7	0.710	ON	
135.11	137.61	135.94	238.66	271.28	228.6	72427	68992.5	100028	0.720	ON	
135.65	138.06	136.53	208.23	232.69	199.35	69404.3	52672.8	87128.5	0.800	ON	
135.45	138.11	136.42	171.25	190.47	165.4	47311	53781.9	71629.8	0.660	ON	
135.64	138.17	136.72	172.01	194.84	167.85	47394.4	55205.2	72758.8	0.650	ON	
135.77	138.17	136.64	180.89	200.12	173.57	53549.1	53236.4	75509.1	0.710	ON	
135.68	138.23	136.52	175.62	200.39	169.59	51193.4	53601.6	74120.8	0.690	ON	
135.44	138.18	136.48	182.38	202.87	173.02	50516.1	56694.2	75934.9	0.670	ON	
135.6	138.06	136.45	218.64	238.47	208.49	70921.5	56313	90559.4	0.780	ON	
135.51	138.22	136.46	206.02	225.96	198.08	65584.5	55150	85690.4	0.770	ON	
135.68	138.29	136.69	190.11	211.02	181.12	54008.8	58105.6	79329.8	0.680	ON	
135.71	138.13	136.46	205.23	224.92	194.1	64559.9	55126.4	84893.5	0.760	ON	
135.62	138.32	136.5	195.63	215.36	187.08	61771.2	53024.4	81408.1	0.760	ON	
135.27	137.95	136.29	219.11	249.33	211.01	60450.6	69708.5	92268.9	0.660	ON	
135.26	137.67	136.24	238.55	273.43	231.76	74175.6	68314.3	100841	0.740	ON	
135.5	138.05	136.32	221.44	248.12	210.77	70911.4	59373.3	92485.8	0.770	ON	
135.57	138.33	136.52	186.66	206.2	179.31	54873.2	55203.2	77836.1	0.700	ON	
135.75	138.3	136.65	179	199.46	171.75	48006.7	57542	74938.1	0.640	ON	
135.43	138.19	136.41	200.67	223.23	189.08	62487.4	55141.7	83338.3	0.750	ON	
135.65	138.25	136.57	165.85	193.91	163.93	46842.9	53576.1	71166.4	0.660	ON	
135.85	138.52	136.79	153.04	176.86	147.97	37483.7	53245.5	65116.1	0.580	ON	
135.55	138.11	136.49	179.06	204.33	171.83	58271.2	47983.2	75484.6	0.770	ON	
135.43	138.12	136.39	174.39	201.09	164.34	54854.9	48509.4	73227.2	0.750	ON	
135.45	138.06	136.33	186.47	209.52	176.13	58126	51573.6	77707.6	0.750	ON	
135.56	138.18	136.41	213.17	238.11	201.54	74076	49022.7	88828.4	0.830	ON	
135.74	138.36	136.59	175.14	202.78	166.39	54730.3	49814.9	74006.2	0.740	ON	
135.77	138.46	136.83	176.01	207.03	169.83	56096.1	50077.1	75196.4	0.750	ON	

136.01	138.45	136.84	184.93	210.93	177.71	61356	48424	78162.9	0.780	ON	
135.5	137.88	136.43	215.49	249.7	202.35	66465	61404.9	90488.4	0.730	ON	
135.46	138.16	136.51	214.92	250.49	206.56	66612	62462.3	91316.5	0.730	ON	
135.89	138.24	136.47	191.96	219.59	182.41	58094.4	56133.2	80783	0.720	ON	
135.78	138.37	136.85	176.07	201.66	168.44	56285.1	48616.1	74374.3	0.760	ON	
135.61	138.28	136.59	179.94	201.42	167.74	58680.1	46223.4	74699.1	0.790	ON	
135.89	138.51	136.68	157.57	182.11	150.58	45396.7	48887.7	66714.8	0.680	ON	
9:40:00 PM	135.46	138.1	136.45	187.11	211.95	183.48	41978	67229.2	79258.6	0.530	OFF
135.05	137.73	135.97	199.38	224.32	190.97	53394.6	63997.8	83346.9	0.640	OFF	
135.65	138.32	136.58	185.73	209	181.29	41329.6	66702.1	78468.5	0.530	OFF	
135.32	138.25	136.49	197.07	227.36	192.81	49668.9	67643.8	83920.7	0.590	OFF	
135.22	138.28	136.59	215.38	246.88	209.03	60916.3	67961.7	91266.6	0.670	OFF	
135.5	137.88	135.88	234.55	262	222.91	70432.6	67654.3	97662	0.720	OFF	
134.88	137.54	136.32	257.76	292.75	231.78	80015.9	69328.2	105872	0.760	OFF	
135.38	138.21	136.58	215.89	243.18	204.14	63789.7	63775.5	90202.2	0.710	OFF	
135.35	138	136.54	207.05	233.45	193.88	58223.8	63358.3	86048.2	0.680	OFF	
135.65	137.95	136.42	190.06	220.19	182.35	48499.6	64255.4	80504.4	0.600	OFF	
135.53	138.5	136.66	177.76	207.04	174.34	38773.8	65534.8	76146	0.510	OFF	
135.79	138.14	136.69	194.98	225.29	189.77	50981.7	65488.3	82993.1	0.610	OFF	
135.85	137.99	136.58	202.16	230.95	194.96	57071.1	63573.1	85432.1	0.670	OFF	
135.77	138.03	136.68	201.09	229.38	191.22	56538.2	62909.2	84582.1	0.670	OFF	
135.43	138.33	136.72	197.64	220.86	186	53304	62529.6	82166.1	0.650	OFF	
135.47	138.54	136.42	187.49	213.7	182.82	48568.9	62859.9	79437.4	0.610	OFF	
135.87	138.61	136.41	178.25	207.01	174.74	40480.3	64665.9	76291.2	0.530	OFF	
135.98	138.39	136.54	175.22	202.73	170.18	35613.2	65655.7	74692.5	0.480	OFF	
135.95	138.36	136.62	179.79	205.35	173.83	38320.4	65831.7	76172.6	0.500	OFF	
135.99	138.55	136.53	186.23	210.56	178.32	42407.9	65904.5	78369.9	0.540	OFF	
135.78	138.6	136.37	188.7	213.23	179.26	46483.3	64090.9	79172.9	0.590	OFF	
135.52	138.57	136.56	187.36	211.47	180.9	48170.5	62583.2	78975	0.610	OFF	
135.5	138.41	136.75	181.31	203.15	173.12	41793.8	63296.5	75849.6	0.550	OFF	
135.71	138.31	136.83	175.81	201.52	169.93	36301.8	65117	74552.3	0.490	OFF	
135.86	138.41	136.95	173.97	200.59	170.12	33981.1	66082	74307.1	0.460	OFF	
135.51	138.52	136.82	177.03	205.06	173.6	37881.6	65559.5	75717	0.500	OFF	
135.76	138.73	136.51	181.82	207.87	174.24	40490.8	65304	76838.3	0.530	OFF	
136.01	138.39	136.57	190.51	215.49	183.04	47615.1	64629	80275.2	0.590	OFF	
135.87	138.28	136.91	191.07	217.71	183.68	50294.1	63172.8	80748.4	0.620	OFF	
135.51	138.56	136.81	187.68	209.62	178.3	47167	62616	78393.2	0.600	OFF	
135.63	138.69	136.66	180.8	205.14	176.92	41745.3	64325.6	76684.1	0.540	OFF	
135.63	138.68	136.7	175.52	200.77	171.25	35406.5	65757.2	74683.5	0.470	OFF	
135.8	138.41	136.92	176.91	202.74	173.17	35952.4	66271.1	75395.2	0.480	OFF	
135.83	138.49	136.47	189.84	213.48	180.2	44937.3	65560.7	79483.1	0.570	OFF	
135.51	138.04	136.5	200.19	227.13	190.63	51904	66069.3	84018.9	0.620	OFF	
135.52	138.14	136.53	187.36	212.25	178.27	40327.4	67407.5	78549.8	0.510	OFF	
135.7	138.23	136.49	185.59	213.23	180.98	37046.1	69694.3	78928.5	0.470	OFF	
135.49	138.22	136.39	199.9	228.43	191.02	49970	67778.5	84207.6	0.590	OFF	
135.51	138.17	136.47	192.51	218.12	181.87	44764.6	66872.6	80472.5	0.560	OFF	
135.75	138.33	136.51	183.3	212.51	179.28	35575.7	69783.3	78328.5	0.450	OFF	
135.47	138.22	136.35	204.32	236.43	197.05	48807.5	71626.4	86674.7	0.560	OFF	
135.5	138.04	136.39	202.41	232.73	192.29	49106.2	69558.6	85145.8	0.580	OFF	
135.57	138.24	136.44	189.99	221.61	187.75	37089.7	72653.6	81573.2	0.450	OFF	
135.66	138.1	136.44	202.17	231.5	198.12	47062.8	71903.3	85936	0.550	OFF	
135.4	138.03	136.31	201.8	229.93	197.43	49966.5	69320.4	85451.6	0.580	OFF	
135.37	137.99	136.24	191.06	218.66	187.14	36638.7	72391.3	81135	0.450	OFF	
135.33	138.02	136.29	206.19	231.51	199.92	49508.8	71118.1	86653.9	0.570	OFF	
135.59	138.04	136.35	192.52	217.76	188.74	38779.8	71649.9	81471.3	0.480	OFF	
135.32	137.79	136.33	202.01	229.78	194.43	45452.8	71812.1	84987.8	0.530	OFF	
135.31	137.77	136.29	190.46	219.93	189.82	40218.6	70881.3	81496.6	0.490	OFF	
135.39	137.78	136.27	202.68	233.04	196.07	46329.5	72131.1	85728.2	0.540	OFF	

135.45	137.97	136.02	191.69	217.52	186.31	38200	71317.6	80903.9	0.470	OFF	
135.28	138.15	136.37	202.85	229.14	197.89	46489.2	71923.6	85640.2	0.540	OFF	
135.39	137.88	136.48	191.82	221.24	190.42	38357.4	72540.6	82057.4	0.470	OFF	
135.46	137.77	136.25	206.89	237.07	199.68	50685.4	71153.4	87360.3	0.580	OFF	
135.4	137.75	136.1	189.42	216.13	186.97	36034	71959.1	80477	0.450	OFF	
135.38	138.04	136.13	203.09	234.21	199.63	50191	70460.8	86509.3	0.580	OFF	
135.3	138.06	135.99	189.75	217.39	185.26	35617.8	72157.8	80469.7	0.440	OFF	
135.13	137.95	136.19	206.65	233.46	201.44	51623.5	70165.1	87109.8	0.590	OFF	
135.35	137.83	135.86	189.74	219.9	188.57	35335.5	73104.6	81196.5	0.440	OFF	
9:45:00 PM	135.62	137.94	135.99	167.98	189.45	158.79	47532.5	51392.3	70003.6	0.680	ON
135.39	138.43	136.2	163.17	188.41	161.01	42661.3	54975.1	69586.2	0.610	ON	
135.62	138.29	136.88	149.9	177.6	148.63	33800	55293.3	64805.8	0.520	ON	
135.63	138.34	136.79	172.33	195.53	165.27	50317.1	52321.5	72590.3	0.690	ON	
135.98	138.49	136.58	150.31	177.33	149.15	33256.6	55779.1	64940.8	0.510	ON	
135.65	138.49	136.55	170.19	196.55	162.21	49796.7	51918.8	71939.3	0.690	ON	
135.52	138.28	136.47	156.9	180.56	153	37371.5	55217.2	66675.1	0.560	ON	
135.53	138.18	136.57	166.2	193.34	161.66	48503	51580.8	70803.3	0.690	ON	
135.61	138.1	136.51	160.41	184.69	152.55	38928.9	55207.1	67552.1	0.580	ON	
135.57	138.09	136.54	160.74	187.17	159.11	45251.4	51871	68835.2	0.660	ON	
135.72	138.26	136.71	156.08	182.22	150.54	36942.1	55233.2	66448.7	0.560	ON	
135.87	138.19	136.7	162.44	186.37	159.5	45320.7	52184.4	69117.1	0.660	ON	
135.84	138.3	136.75	157.93	185.74	152.59	38118	55631.1	67437.4	0.570	ON	
135.8	138.27	136.62	161.23	185.23	158.36	44694.7	52098.6	68643.1	0.650	ON	
135.62	138.37	136.64	157.59	181.09	150.92	37621.5	54882.8	66539.5	0.570	ON	
135.73	138.42	136.53	171.39	195.38	160.59	49033	52271.7	71669.8	0.680	ON	
135.81	138.51	136.76	155.09	181.38	149.69	36377.8	55271.3	66168.4	0.550	ON	
135.77	138.41	136.55	171.25	194.28	161.75	50092.5	51392	71766.3	0.700	ON	
135.95	138.57	136.72	152.52	177.21	147.7	34508	55160	65064.8	0.530	ON	
135.87	138.5	136.67	172.61	197.93	166.02	49252.2	53970.9	73066	0.670	ON	
135.99	138.68	136.84	163.88	184.38	158.3	44245.5	52940.6	68995.5	0.640	ON	
136.17	138.77	137.04	154.89	178.37	150.46	35586.2	55645.8	66051.7	0.540	ON	
136.12	138.46	136.8	171.36	192.89	164.21	48377.5	53371.5	72034	0.670	ON	
136.15	138.73	137.09	169.96	190.39	157.43	47607.5	52088.7	70567	0.670	ON	
136.24	139.03	136.93	153.1	177.47	149.32	36003.4	54791.3	65561.7	0.550	ON	
136.01	138.56	137.07	156.71	181.56	153.5	38036.9	55213.8	67047.5	0.570	ON	
135.74	138.54	136.72	174.53	198.78	164.71	50606.7	52964.8	73255.1	0.690	ON	
135.78	138.3	136.66	161.22	181.4	151.06	41829.9	52474.9	67107.1	0.620	ON	
136.08	138.74	136.91	155.75	180.69	150.07	35991	55718.3	66331.6	0.540	ON	
135.87	138.39	136.64	174.83	195.34	166.16	51322.9	52010.8	73069.6	0.700	ON	
136.05	138.6	136.89	153.72	177.16	146.99	35845.9	54387.1	65137.4	0.550	ON	
135.72	138.37	136.6	159.4	186.33	153.82	40672.7	54356.4	67888.7	0.600	ON	
135.97	138.36	136.72	167.93	191.98	159.6	48823.2	51197.2	70745	0.690	ON	
135.9	138.35	136.62	151.16	179.6	146.52	36168.2	53891.1	64902.9	0.560	ON	
135.62	138.05	136.26	160.53	184.75	152.93	40624.3	54000.5	67575.1	0.600	ON	
135.43	138.08	136.25	171.41	197.28	163.27	51567.4	50555.3	72215.2	0.710	ON	
135.69	138.17	136.55	152.35	179.74	146.82	36432.3	53907.5	65064.1	0.560	ON	
135.75	138.3	136.48	161.56	186.79	152.55	41336.6	53954.8	67969.4	0.610	ON	
135.55	138.23	136.4	169.75	193.66	160.5	50427.8	50240.6	71183.4	0.710	ON	
135.63	138.14	136.56	150.72	176.25	145.87	35321.1	53676.4	64255.2	0.550	ON	
135.75	138.15	136.72	158.67	187.65	157.26	41252	54594.8	68427.5	0.600	ON	
135.65	138.25	136.67	172.48	198.48	162.81	51706.4	50947.9	72589.5	0.710	ON	
135.68	138.31	136.48	153.91	180.07	151.78	39719.8	52706.6	65997.3	0.600	ON	
135.85	138.58	136.68	155.34	184.74	150.77	37748.8	55093.9	66785.6	0.570	ON	
135.77	138.41	136.66	170.22	199.13	162.61	49887.1	52404.9	72353.3	0.690	ON	
136.2	138.75	136.98	152.02	181.59	151.92	38393.1	53878	66157.9	0.580	ON	
136.11	138.66	136.94	163.26	192.45	155.57	41955.7	55542.9	69608.1	0.600	ON	
136.06	138.6	136.74	166.19	190.75	155.79	46505.8	52010.5	69770.2	0.670	ON	
136.1	138.54	136.96	155.57	184.02	150.15	36639.4	55724.6	66690.9	0.550	ON	

135.95	138.62	136.95	167.25	197.27	161.95	49187.8	52116	71662.5	0.690	ON	
136.11	138.61	136.79	153.43	182.93	152.45	36186.6	55900.8	66591.1	0.540	ON	
136.01	138.46	136.87	172.12	198.19	165.51	51510.3	51762.4	73025.1	0.710	ON	
136.06	138.71	136.84	152.38	179.86	149.1	34793.2	55665.9	65644.9	0.530	ON	
136.19	138.62	136.86	173.54	199.32	164.15	51322.9	52245.9	73237.1	0.700	ON	
136.01	138.61	136.86	149.49	177.27	146.31	33831.9	54893.1	64481.4	0.520	ON	
135.9	138.4	136.68	171.12	200.24	163.38	50055.4	52755.3	72723.3	0.690	ON	
135.71	138.15	136.6	149.88	178.74	149.06	34835.6	54791.6	64927.9	0.540	ON	
135.69	137.95	136.41	173.39	199.97	163.54	50920	52166.8	72898.7	0.700	ON	
135.98	138.44	136.72	148.55	177.55	147.45	33620.7	55018.1	64477.4	0.520	ON	
135.51	138.07	136.35	170.05	197.98	164.73	50072.5	52194.3	72329.2	0.690	ON	
9:50:00 PM	135.09	137.75	136.08	186.94	220.47	185.39	37495.5	71084.1	80367	0.470	OFF
135.15	137.74	136.04	201.69	230.13	194.73	45733.1	71534.2	84903.8	0.540	OFF	
135.11	137.72	136.03	191.69	226.35	191.07	44996.3	69172.3	82519.6	0.550	OFF	
135.23	137.73	136.04	197.41	228.85	193.73	42416.4	72592.8	84076.5	0.500	OFF	
135.12	137.65	135.97	204.3	236.88	199.35	53016.8	68744.3	86813.3	0.610	OFF	
135.23	137.73	136.06	186.48	217.34	185.28	35245.6	71755.5	79944.4	0.440	OFF	
135.22	137.82	136.18	199.27	234.07	196.36	47437.8	70996.4	85386.4	0.560	OFF	
135.24	137.82	136.09	191.39	222.47	192.17	42987.6	70053.1	82191.1	0.520	OFF	
135.53	138.11	136.39	194.43	226.7	190.15	39952.1	72833.9	83071.9	0.480	OFF	
135.53	138.04	136.37	202.48	234.95	200.52	52391	69099.9	86715.7	0.600	OFF	
135.89	138.4	136.73	191.26	223.59	189.69	37391.8	73456.7	82425.9	0.450	OFF	
135.64	138.23	136.44	203.7	235.57	201.83	49531.9	71808.7	87234.8	0.570	OFF	
135.57	138.14	136.32	193.08	218.04	188.79	40152.9	71020	81584.9	0.490	OFF	
135.58	138.1	136.37	192.99	225.42	193.33	40180.3	72816.9	83167	0.480	OFF	
135.31	137.94	136.07	199.36	227.78	192.29	47790.6	69085.5	84004.4	0.570	OFF	
135.11	137.66	135.98	191.28	220.83	187.28	37005.9	72321.1	81239	0.460	OFF	
134.97	137.64	136	195.79	227.84	194.42	47767.1	68752.8	83717.6	0.570	OFF	
135.11	137.77	136.08	197.3	224.62	191.94	40843.3	72553.8	83260	0.490	OFF	
135.15	137.84	135.97	197.81	227.02	191.05	46314.4	69427.5	83457.8	0.550	OFF	
135.24	137.85	136.19	183.18	213.28	183.79	37463.7	69294.9	78773.8	0.480	OFF	
135.43	137.96	136.38	187.18	213.48	184.92	47778.9	63657	79593	0.600	OFF	
135.48	138.38	136.28	177.48	202.15	178.03	41914.3	63171.4	75811.8	0.550	OFF	
135.53	138.52	136.33	169.49	195.27	170.13	32945.4	64984.3	72858.4	0.450	OFF	
136.08	138.36	136.65	174.18	198.61	171.73	33454.6	66313.2	74274.2	0.450	OFF	
135.68	138.67	136.99	182.24	210.91	180.36	42298.3	65820.7	78240	0.540	OFF	
135.98	138.66	136.51	191.49	215.7	185.37	49771.5	63685.5	80827.2	0.620	OFF	
135.93	138.41	136.67	185.56	207.31	179.17	42743.2	65166.5	77933.6	0.550	OFF	
135.77	138.64	136.84	183.54	202.65	178.2	36658.7	67808	77083	0.480	OFF	
135.65	138.58	136.69	196.05	217.77	188.8	47824.3	66798.4	82153.4	0.580	OFF	
135.5	138.26	136.44	192.81	207.91	182.25	46486.8	64239.3	79295.1	0.590	OFF	
135.59	138.27	136.49	180.98	199.01	175.11	34490.6	67339.6	75658.6	0.460	OFF	
135.52	138.11	136.21	197.86	212.54	188.98	48369.3	65586.1	81493.1	0.590	OFF	
135.44	138.34	136.37	185.78	201.14	181.11	42227.7	64718.2	77276.2	0.550	OFF	
135.42	138.18	136.39	184.39	201.89	179.85	36958.2	67622.6	77063.1	0.480	OFF	
135.19	138.06	136.15	201.24	218.55	191.75	52844.4	64137	83102.8	0.640	OFF	
135.13	137.93	136.2	180.01	200.33	174.58	36683.2	65867.7	75393.7	0.490	OFF	
134.63	137.36	135.44	260.06	297.65	254.47	53649.4	95763.6	109768	0.490	OFF	
135.09	137.79	135.97	241.45	269.47	235.45	64526.9	78006.6	101236	0.640	OFF	
135.13	137.9	136.19	225.98	255.59	221.42	49518.7	81646.1	95489.2	0.520	OFF	
135.3	137.87	136.38	237.22	269.81	234.82	58698.1	81959.1	100810	0.580	OFF	
135.6	138.19	136.54	221.45	244.15	209.22	57734.8	71383.8	91809.3	0.630	OFF	
135.78	138.27	136.49	199.65	230.18	195.56	43284.3	73364.6	85181.5	0.510	OFF	
135.87	138.6	136.72	189.54	216.54	183.64	45898.4	66005.7	80395.4	0.570	OFF	
135.8	138.36	136.63	185.89	210.18	177.43	44759.6	63875	77996.4	0.570	OFF	
135.58	138.21	136.31	186.95	215.65	182.77	43360.7	66772.2	79615.8	0.540	OFF	
135.04	137.67	136	222.55	253.01	215.46	67504.7	64964.2	93686.9	0.720	OFF	
135.29	137.86	136.07	211.72	242.61	208.84	59181.7	67816.5	90008.6	0.660	OFF	

135.28	137.74	136.07	230.9	258.33	225.79	67651.5	69536.6	97015.8	0.700	OFF	
135.23	137.84	136.01	226.5	251.71	218.49	69001.7	64617.7	94534.1	0.730	OFF	
135.4	137.95	136.33	192.03	220.64	188.53	47578.3	66416.8	81699.9	0.580	OFF	
134.88	137.79	135.96	214.65	249.32	208.08	63919.4	64769.9	90999.1	0.700	OFF	
134.78	137.38	135.67	240.09	283.79	239.02	66924	78441.1	103111	0.650	OFF	
134.92	137.45	135.82	244.81	282.66	240.91	65745.9	80522.4	103954	0.630	OFF	
134.69	137.32	135.6	258.61	303.45	249.52	79372.7	75570.6	109594	0.720	OFF	
135.36	138.02	136.28	213.66	246.93	206.34	52782.3	73593.8	90565	0.580	OFF	
135.61	138.11	136.38	230.37	263.61	218.9	66750.9	70246.1	96903	0.690	OFF	
135.85	138.65	136.74	187	216.51	180.72	44373.2	66147.5	79652.2	0.560	OFF	
135.58	138.16	136.46	205.25	232.5	194.89	53896.4	67039.5	86018.1	0.630	OFF	
135.26	138.03	136.2	198.43	229.68	191.24	50889.2	66912.6	84065.5	0.610	OFF	
135.35	137.86	136.03	228.66	264.74	221.16	68860.9	68147.8	96881.1	0.71	OFF	
9:55:00 PM	135.31	137.82	136.19	199.78	229.85	192.1	67475.9	50560.3	84316.9	0.8	ON
135.29	138.07	136.24	216.72	241.16	204.85	72700.9	53025.3	89983.9	0.81	ON	
135.57	138.12	136.22	199.78	222.14	183.75	66078.7	48842.8	82170.6	0.8	ON	
135.8	138.36	136.55	175.12	196.71	162.94	52364.9	50385.7	72669.1	0.72	ON	
135.46	138.01	136.31	199.69	226.37	189.32	69417.9	46589.9	83603	0.83	ON	
135.14	137.62	135.89	221.19	261.08	212.12	68850.8	63935.8	93958.6	0.73	ON	
135.3	137.78	136.02	239.05	278.37	229.21	81102.8	60497.3	101181	0.8	ON	
135.11	137.67	135.99	236.77	279.17	225.21	75169.6	66380.2	100284	0.75	ON	
135.49	138.13	136.37	217.05	248.58	202.65	68254.4	59689.6	90672.6	0.75	ON	
135.69	138.21	136.32	209.68	236.43	194.94	65721.4	57087.5	87053.3	0.75	ON	
136.17	138.8	136.94	167.09	192.37	159.55	45754.7	54038	70806.7	0.65	ON	
136.01	138.62	136.9	177.24	201.17	167.59	54318.5	50932.3	74462	0.73	ON	
136.14	138.72	136.88	156.57	181.59	151.49	41185.4	52580.7	66790.5	0.62	ON	
135.93	138.58	136.67	174.57	203.86	170.09	49538.3	55892.8	74686.4	0.66	ON	
135.59	138.3	136.52	171.07	201.41	164.47	50250.2	52806	72894.1	0.69	ON	
135.66	138.32	136.47	174.56	204.89	166.38	47820.8	56668.5	74149.5	0.64	ON	
135.41	137.95	136.12	211.54	241.41	198.39	70048.5	53902.8	88387.3	0.79	ON	
135.52	138.25	136.38	196.2	226.07	185.11	59461	57217.9	82519.7	0.72	ON	
135.16	137.76	135.92	230.69	258.88	216.73	76159.9	58031.4	95749.5	0.8	ON	
135.39	137.95	136.15	216.04	248.99	208.21	71744.2	56483.5	91310.5	0.79	ON	
135.37	137.94	136.2	191.08	222.45	181.79	57169.8	56988.7	80722.4	0.71	ON	
135.35	137.87	136.06	211.21	242.07	197.41	70716	52762.7	88230.7	0.8	ON	
135.37	138.04	136.23	181.76	212.33	172.74	53643.4	55086	76890.1	0.7	ON	
135.63	138.1	136.31	194.54	222.05	180.63	59911.9	54597.4	81057.4	0.74	ON	
135.73	138.28	136.38	201.58	227.23	187.72	64347.2	53607.4	83751.5	0.77	ON	
136.08	138.67	136.91	168.55	197.82	164.52	46889.9	55128.7	72372.9	0.65	ON	
135.9	138.5	136.75	187.25	216.13	178.59	60143.8	51629.8	79264.8	0.76	ON	
136.06	138.66	136.87	162.06	192	157.18	43697.3	54224.6	69640.3	0.63	ON	
135.92	138.49	136.7	175.01	202.58	163.85	49974.2	54075.6	73631.4	0.68	ON	
136.05	138.53	136.77	169.94	194.09	162.26	49687.9	51680.2	71691.9	0.69	ON	
135.88	138.59	136.71	160.21	180	153.22	37112.9	56137.9	67296.6	0.55	ON	
135.87	138.5	136.67	175.67	195.38	164.78	48996.4	54124.7	73007.7	0.67	ON	
135.77	138.4	136.54	169.98	188.57	163.65	47342.4	52987.5	71056.1	0.67	ON	
135.97	138.62	136.78	160.53	177.76	152.95	36846.2	56011.8	67044.5	0.55	ON	
135.77	138.38	136.64	173.13	191.81	167.18	47982	54340.4	72492.4	0.66	ON	
135.68	138.37	136.54	168.47	184.75	163.43	46759.2	52526.2	70323.7	0.66	ON	
135.95	138.55	136.76	158.86	175.75	151.63	35910.8	55798.5	66355.5	0.54	ON	
136.02	138.83	136.74	170.97	187.03	159.53	43807.5	55369.5	70603.7	0.62	ON	
135.8	138.56	136.75	174.38	189.1	164.51	49265.8	52528.7	72016.5	0.68	ON	
136.13	138.72	136.95	160.18	177.48	151	37387.6	55251.7	66712.7	0.56	ON	
136.41	139.04	137.05	165.18	180.73	154.98	38434.3	56708.4	68505.7	0.56	ON	
136.4	139.21	137.29	177.16	194.77	167.14	49085.5	55138.7	73821.8	0.66	ON	
136.32	139.09	137.13	173.62	185.03	161.46	46198.6	54013.8	71076	0.65	ON	
136.08	138.99	137.13	160.83	176.15	153.71	36924.5	56036.8	67108.5	0.55	ON	
136.08	138.96	136.88	164.59	180.77	154.92	38879.1	56197	68335.1	0.57	ON	

136.15	138.61	136.77	174.54	190.32	165.97	48636.3	53705.2	72455	0.67	ON	
135.83	138.73	136.85	173.36	186.36	162.61	48313	52351.2	71237.6	0.68	ON	
136.02	138.78	136.69	158.51	178.04	154.22	38253.7	54979.7	66978.5	0.57	ON	
136.14	138.67	136.74	163.86	179.84	154.61	38384.1	56137.7	68005.7	0.56	ON	
135.92	138.68	136.63	176.9	190.95	164.58	48246.3	54259.9	72607.4	0.66	ON	
135.84	138.66	136.76	172.8	185.29	162.32	46756.4	53322	70918.3	0.66	ON	
136.21	138.76	137.07	159.83	175.79	151.7	35653.6	56287.4	66629.2	0.54	ON	
136.08	138.55	136.99	168.12	183.66	161.67	42639.7	55642	70101.2	0.61	ON	
136.38	139.05	137.33	171.66	195.03	163.01	49813.1	52639.5	72472.5	0.69	ON	
136.56	139.43	137.39	156.26	179.89	154.53	40786.6	53366.6	67168	0.61	ON	
136.8	139.2	137.49	151.18	175.95	147.32	34041.2	55406.1	65028	0.52	ON	
136.66	139.46	137.67	157.79	185.39	154.79	38572.1	56277.7	68227.5	0.57	ON	
136.87	139.3	137.33	168.79	190.82	161.39	46278.1	54378.4	71405	0.65	ON	
136.29	138.96	137.27	171.85	193.19	161.21	49512.2	52108.5	71880.1	0.69	ON	
10:00:00 PM	136.61	139.43	137.33	152.12	177.17	151.17	36848.6	54486.5	65776.9	0.56	ON