

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P648062

Luminaire Tested: **GALN-SA7A-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648062
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-835-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21916.2 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

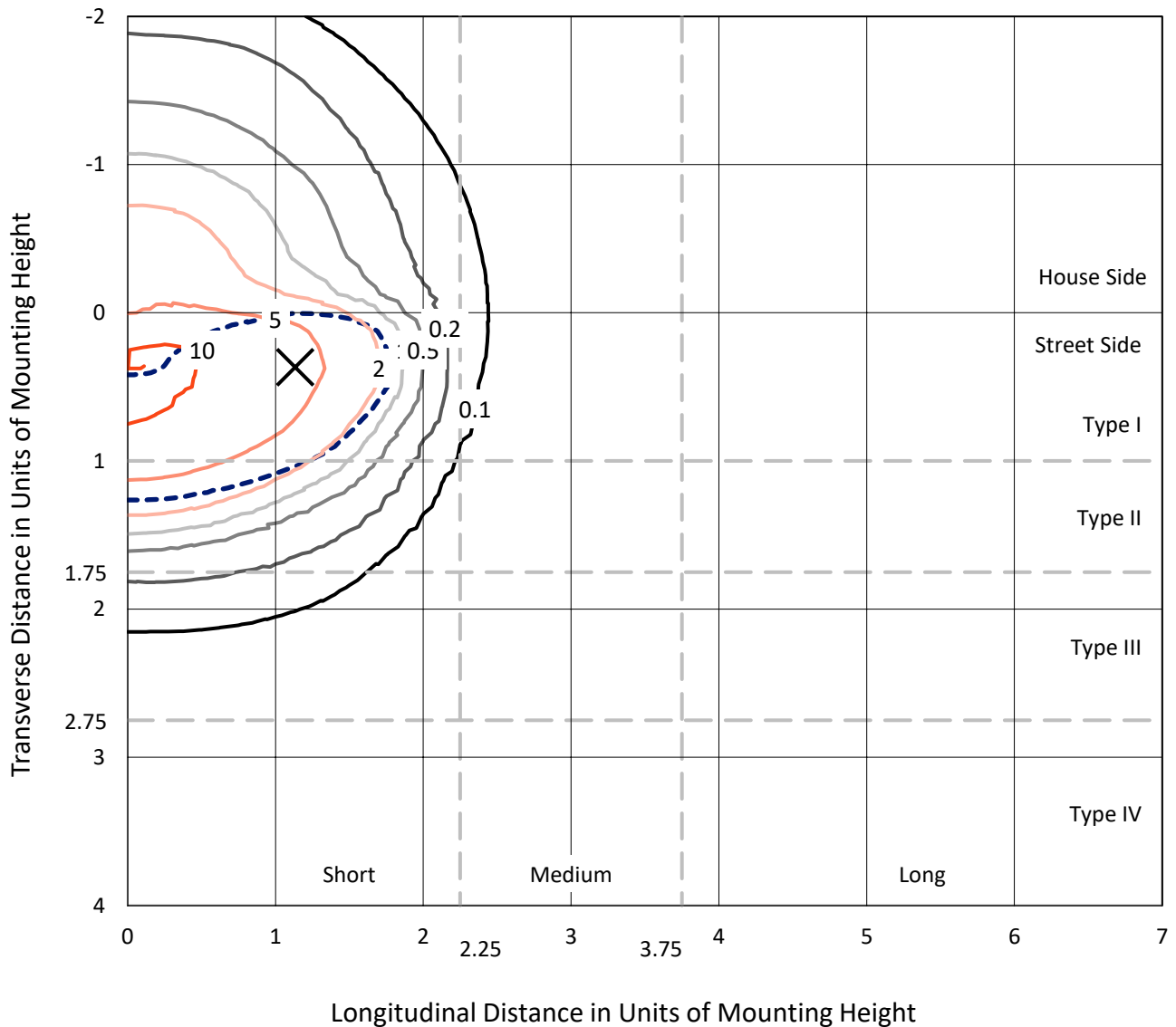
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

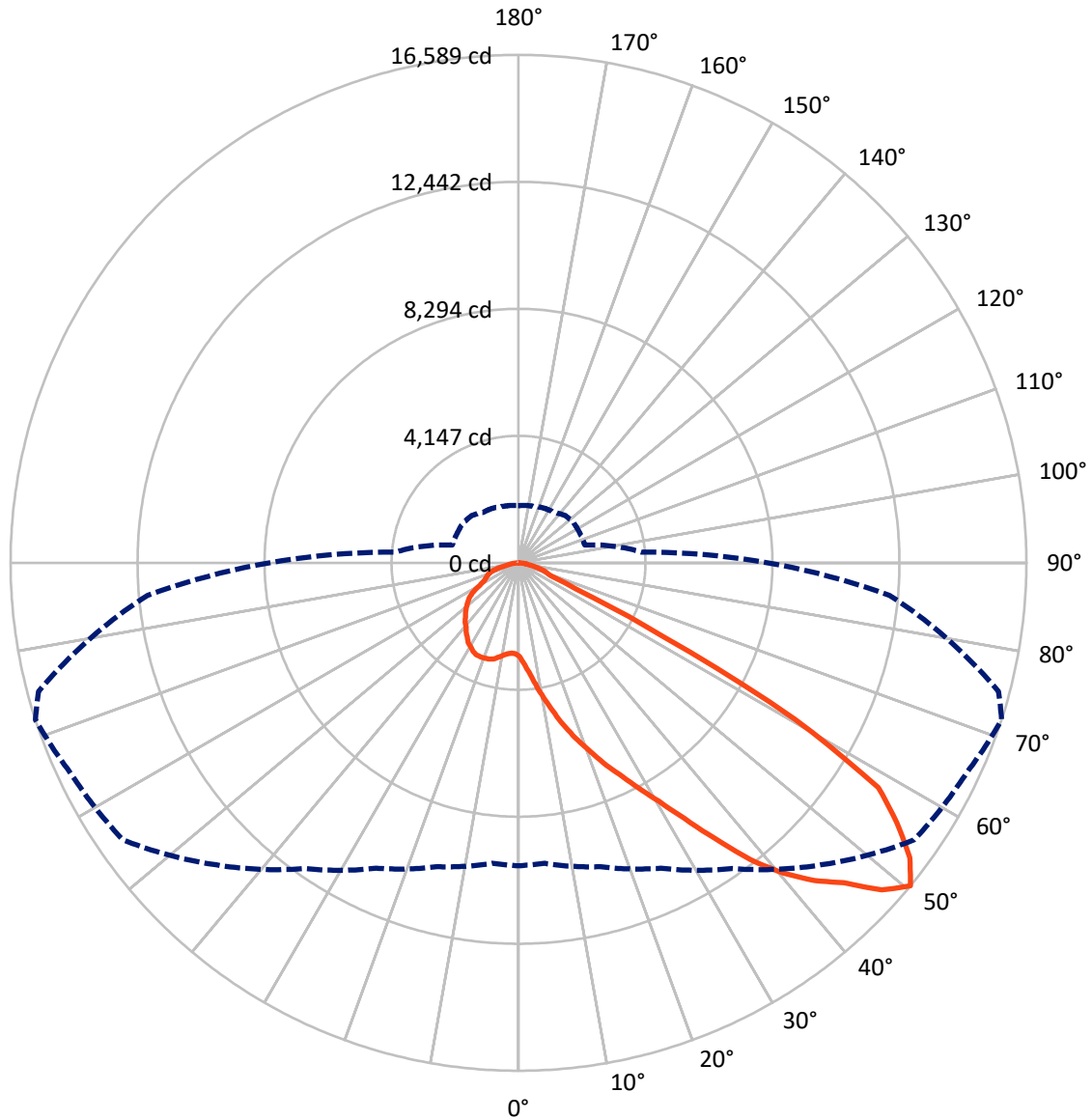
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5021.1	0.0	5021.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	16895.0	0.0	16895.0
	% Fixture	77.1	0.0	77.1
Total	Lumens	21916.2	0.0	21916.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.9	1.6
10°-20°	1341.6	6.1
20°-30°	2601.2	11.9
30°-40°	4309.3	19.7
40°-50°	6029.6	27.5
50°-60°	5086.7	23.2
60°-70°	1550.4	7.1
70°-80°	543.9	2.5
80°-90°	94.6	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	21916.2	100.0
0°-180°	21916.2	100.0

Coefficient of Utilization

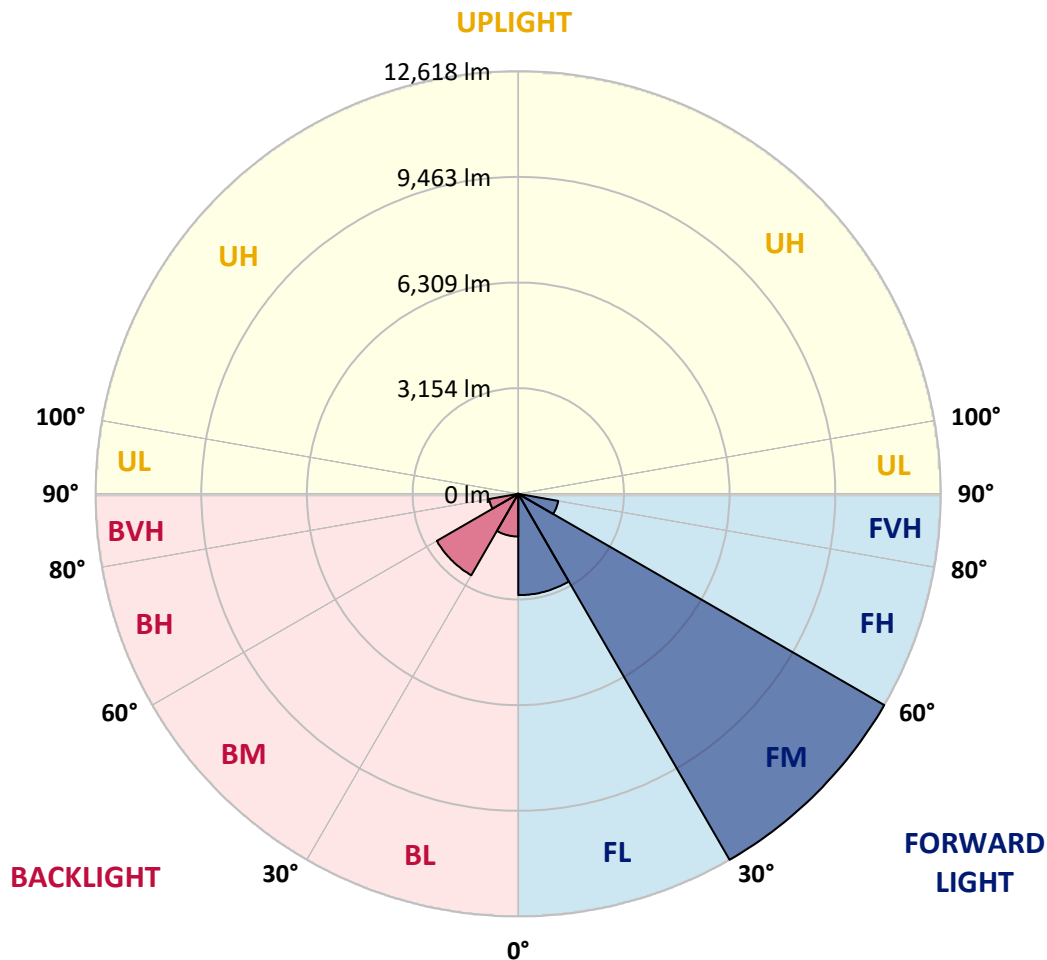


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3025.2	13.8			
FM (30°-60°)	12617.7	57.6			
FH (60°-80°)	1209.7	5.5			G1/1800
FVH (80°-90°)	42.4	0.2			G1/100
BL (0°-30°)	1276.4	5.8	B3/2500		
BM (30°-60°)	2807.9	12.8	B3/5000		
BH (60°-80°)	884.6	4.0	B2/1000		G2/1000
BVH (80°-90°)	52.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3050.9	3050.9	3050.9	3050.9	3050.9	3050.9	3050.9	3050.9	3050.9	3050.9	3050.9
2.5°	3924.2	3899.7	3826.5	3802.1	3715.3	3558.0	3503.8	3343.8	3276.0	3213.7	3140.4
5°	4962.8	4849.0	4840.8	4702.5	4501.8	4385.2	4038.1	3804.8	3590.6	3482.1	3281.4
7.5°	5624.5	5627.3	5627.3	5513.3	5353.4	5057.7	4745.8	4325.5	4002.8	3842.8	3501.1
10°	6253.7	6199.5	6169.6	6158.8	6050.3	5762.9	5429.2	4908.5	4466.5	4279.4	3666.6
12.5°	6698.5	6652.4	6720.2	6684.9	6606.2	6419.1	6104.6	5510.6	4957.4	4705.2	3932.3
15°	6910.0	6942.5	6996.8	7094.4	7059.1	6988.7	6641.5	6128.9	5486.2	5201.5	4168.2
17.5°	7235.4	7145.9	7211.0	7333.0	7430.7	7398.2	7200.2	6576.4	6009.6	5659.8	4485.5
20°	7463.2	7411.7	7444.2	7585.2	7658.4	7842.9	7739.9	7162.2	6511.3	6142.5	4859.8
22.5°	8114.1	8038.1	7932.4	7954.1	7981.2	8111.4	8135.8	7804.9	7094.4	6703.9	5215.0
25°	8916.8	8846.3	8721.5	8594.1	8515.4	8491.0	8575.1	8309.4	7653.0	7249.0	5597.4
27.5°	9800.9	9681.6	9602.9	9339.9	9128.4	9095.8	9055.2	8911.4	8314.8	7878.2	6028.6
30°	10660.6	10565.6	10459.9	10039.5	9819.9	9784.6	9583.9	9624.6	9033.4	8548.0	6516.8
32.5°	11311.5	11319.6	11078.2	10760.9	10554.8	10367.7	10294.5	10411.1	9955.5	9565.0	7061.9
35°	11837.6	11862.0	11631.5	11344.0	11121.6	11251.8	11219.2	11273.5	11056.5	10579.2	7696.4
37.5°	12350.1	12228.1	11981.3	11843.0	11726.4	11940.6	12217.2	12263.3	12304.0	11742.7	8434.1
40°	12434.2	12445.0	12301.3	12399.0	12252.5	12575.2	13217.9	13158.2	13323.7	12832.8	9234.1
42.5°	12314.9	12339.3	12396.2	12534.5	12887.1	13274.9	14229.5	13985.4	14186.1	13749.5	10012.5
45°	12119.6	12019.3	12089.8	12615.9	13226.0	14088.4	15154.3	14964.4	14899.3	14533.2	10939.9
47.5°	11186.7	11289.8	11509.4	12157.6	13074.2	14229.5	15810.6	15767.1	15962.4	15704.8	11783.3
50°	9893.1	9852.4	10275.5	11005.0	12187.4	13952.8	15775.3	16168.5	16588.9	16230.9	12160.3
52.5°	7409.0	7626.0	7989.3	8895.1	10581.9	12445.0	15005.1	15661.4	16003.1	15927.2	11856.6
55°	4683.5	4748.6	4968.2	6044.9	7563.5	9988.0	12862.7	14384.0	14994.2	15279.0	11577.2
57.5°	2275.3	2153.2	2421.7	3286.9	4368.9	6717.4	9920.2	12529.1	13855.3	14370.5	10969.8
60°	1187.8	1233.9	1339.7	1648.8	2259.0	3487.6	6183.2	8350.0	10375.8	11167.7	8314.8
62.5°	984.5	1000.7	1071.2	1225.8	1502.4	2006.8	3156.7	4070.6	5291.0	6004.2	4729.6
65°	835.3	843.4	919.3	1022.4	1198.7	1412.9	1624.4	1700.4	2058.4	2112.6	1681.4
67.5°	696.9	705.1	786.4	884.1	998.0	1054.9	1109.2	1103.7	1144.4	1128.1	1125.5
70°	537.0	545.1	629.1	732.2	789.2	756.6	924.8	962.7	979.0	992.5	1014.3
72.5°	387.8	404.1	469.2	542.4	512.6	588.5	762.0	819.0	840.7	848.9	875.9
75°	282.0	287.4	303.7	282.0	325.4	409.5	537.0	607.5	634.6	642.8	683.4
77.5°	124.7	127.5	130.1	162.7	208.8	254.9	320.0	376.9	414.9	425.8	436.6
80°	65.1	67.8	84.1	111.2	149.2	187.1	233.3	265.8	290.2	292.9	303.7
82.5°	40.7	43.4	59.7	78.6	105.8	138.3	170.9	197.9	217.0	219.6	222.4
85°	18.9	24.4	35.2	48.8	70.5	89.5	92.2	78.6	84.1	86.8	81.4
87.5°	5.4	8.1	10.9	8.1	10.9	10.9	13.5	16.3	16.3	16.3	18.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3050.9	3050.9	3050.9	3050.9	3050.9	3050.9	3050.9	3050.9	3050.9	3050.9	3050.9
2.5°	3099.7	3075.3	2980.4	2945.2	2852.9	2869.2	2820.4	2817.7	2806.8	2804.2	2801.4
5°	3175.7	3099.7	2985.8	2899.1	2847.5	2842.1	2806.8	2806.8	2817.7	2825.8	2806.8
7.5°	3300.4	3213.7	3021.0	2939.7	2893.7	2885.5	2861.1	2842.1	2866.5	2858.3	2836.7
10°	3444.2	3292.3	3088.9	3018.4	2942.4	2923.5	2923.5	2931.6	2890.9	2904.5	2882.8
12.5°	3604.1	3400.7	3175.7	3094.3	3004.8	2994.0	2988.6	2928.9	2950.6	2939.7	2885.5
15°	3807.6	3525.5	3286.9	3148.5	3072.6	3023.8	2953.3	2942.4	2928.9	2901.8	2877.4
17.5°	4027.2	3661.1	3338.4	3164.8	3050.9	3015.6	2961.5	2904.5	2863.8	2869.2	2850.2
20°	4214.3	3785.9	3357.3	3181.1	3034.7	2966.9	2882.8	2847.5	2804.2	2801.4	2798.7
22.5°	4436.7	3954.0	3384.5	3137.7	2985.8	2915.3	2858.3	2796.0	2766.2	2728.2	2747.2
25°	4702.5	4019.1	3389.9	3113.3	2950.6	2825.8	2796.0	2728.2	2717.3	2663.1	2673.9
27.5°	4895.0	4054.3	3346.5	3037.3	2869.2	2774.3	2720.1	2671.3	2652.3	2611.6	2600.7
30°	5152.7	4108.6	3254.3	2942.4	2787.9	2682.1	2649.5	2638.7	2584.4	2541.1	2535.7
32.5°	5445.5	4143.8	3194.6	2844.8	2703.8	2622.4	2638.7	2587.2	2519.4	2481.4	2470.6
35°	5678.8	4157.4	3045.5	2733.6	2646.9	2595.3	2576.3	2565.5	2467.9	2432.6	2405.5
37.5°	6034.0	4127.6	2920.7	2655.0	2584.4	2565.5	2549.2	2476.0	2364.8	2313.3	2275.3
40°	6448.9	4119.4	2760.8	2543.8	2524.8	2546.5	2497.7	2383.8	2229.2	2172.3	2145.1
42.5°	6847.6	4176.4	2660.4	2484.1	2459.7	2467.9	2400.1	2229.2	2153.2	2120.8	2077.3
45°	7514.8	4295.7	2495.0	2391.9	2381.1	2375.6	2294.3	2115.3	2071.9	2031.3	2023.1
47.5°	8116.8	4217.1	2389.2	2297.0	2307.8	2278.0	2104.5	2047.5	1998.7	1958.0	1944.4
50°	8152.0	4029.9	2240.1	2223.8	2226.5	2174.9	2009.6	1971.6	1909.2	1882.1	1863.1
52.5°	7967.7	3723.5	2101.7	2107.1	2115.3	2031.3	1892.9	1865.8	1814.3	1776.3	1765.4
55°	7449.7	3246.2	1966.1	1987.9	2009.6	1849.5	1806.1	1738.3	1697.7	1643.4	1646.1
57.5°	6562.9	2614.3	1776.3	1811.5	1857.7	1681.4	1648.8	1564.7	1505.1	1461.7	1456.3
60°	4398.7	1860.4	1491.5	1505.1	1608.2	1537.7	1534.9	1450.9	1369.5	1331.6	1309.9
62.5°	2595.3	1421.1	1288.2	1274.6	1271.9	1312.5	1380.4	1350.5	1244.8	1171.5	1193.2
65°	1358.7	1228.5	1198.7	1152.6	1125.5	1114.6	1166.1	1179.7	1109.2	1030.5	1025.1
67.5°	1141.7	1141.7	1117.3	1101.1	1063.1	1017.0	984.5	941.0	930.2	908.5	881.3
70°	1038.6	1065.8	1057.7	1019.7	987.1	935.6	851.5	781.0	713.2	688.8	705.1
72.5°	905.8	932.9	932.9	913.9	870.5	791.8	710.5	629.1	572.2	528.8	523.4
75°	696.9	710.5	743.1	721.4	664.5	615.6	531.5	447.5	393.2	352.6	344.4
77.5°	444.7	466.4	466.4	463.8	423.1	376.9	322.8	263.1	222.4	192.5	184.4
80°	295.6	309.1	320.0	309.1	282.0	246.8	206.1	165.4	135.6	111.2	105.8
82.5°	217.0	233.3	241.4	230.5	203.4	176.3	146.4	116.6	86.8	67.8	62.4
85°	84.1	86.8	97.6	116.6	113.9	111.2	89.5	65.1	48.8	35.2	32.6
87.5°	21.7	18.9	21.7	21.7	18.9	16.3	16.3	16.3	16.3	8.1	10.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)