

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: P532212

Luminaire Tested: **GALN-SA7C-740-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532212
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-740-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41426 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

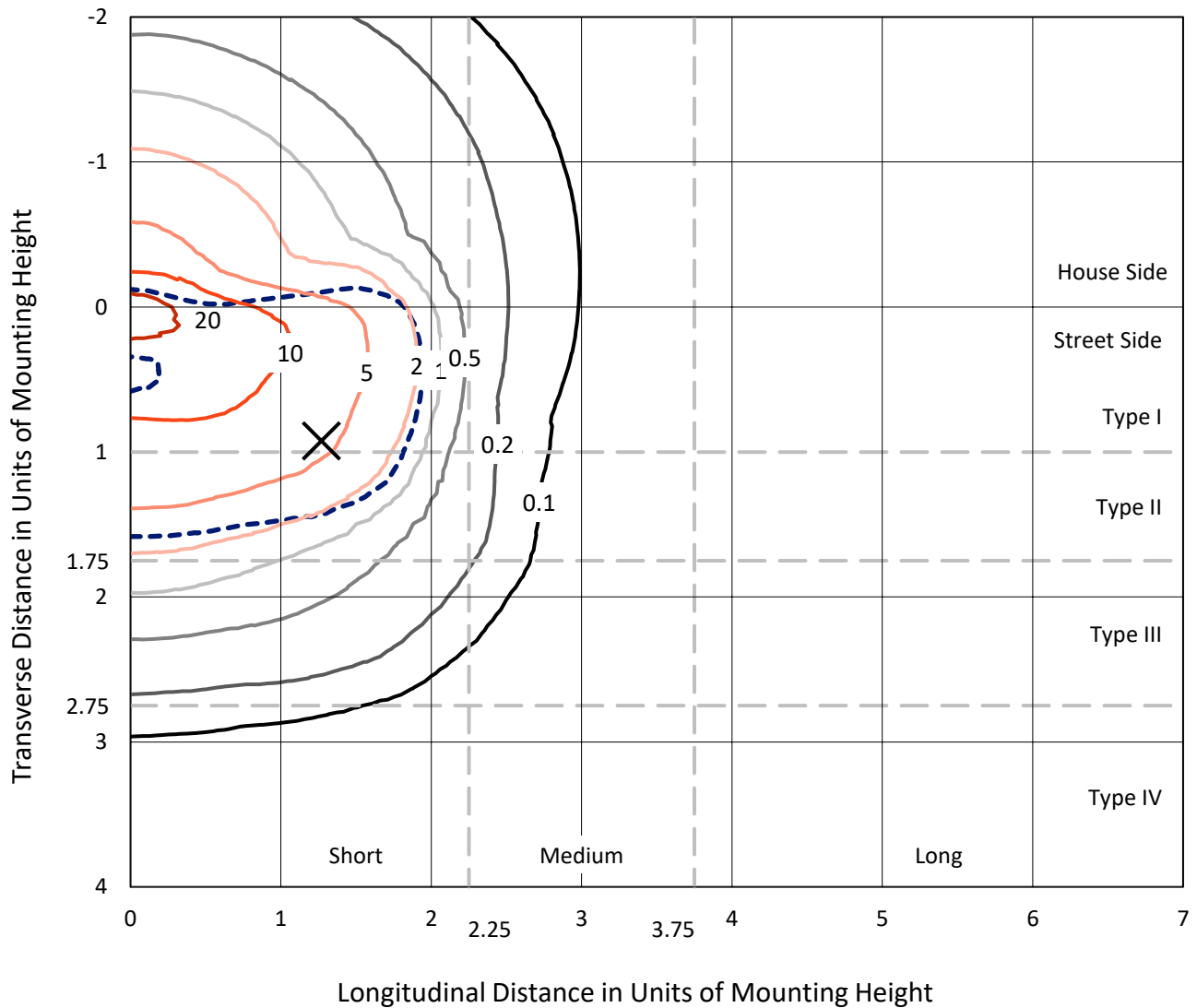
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

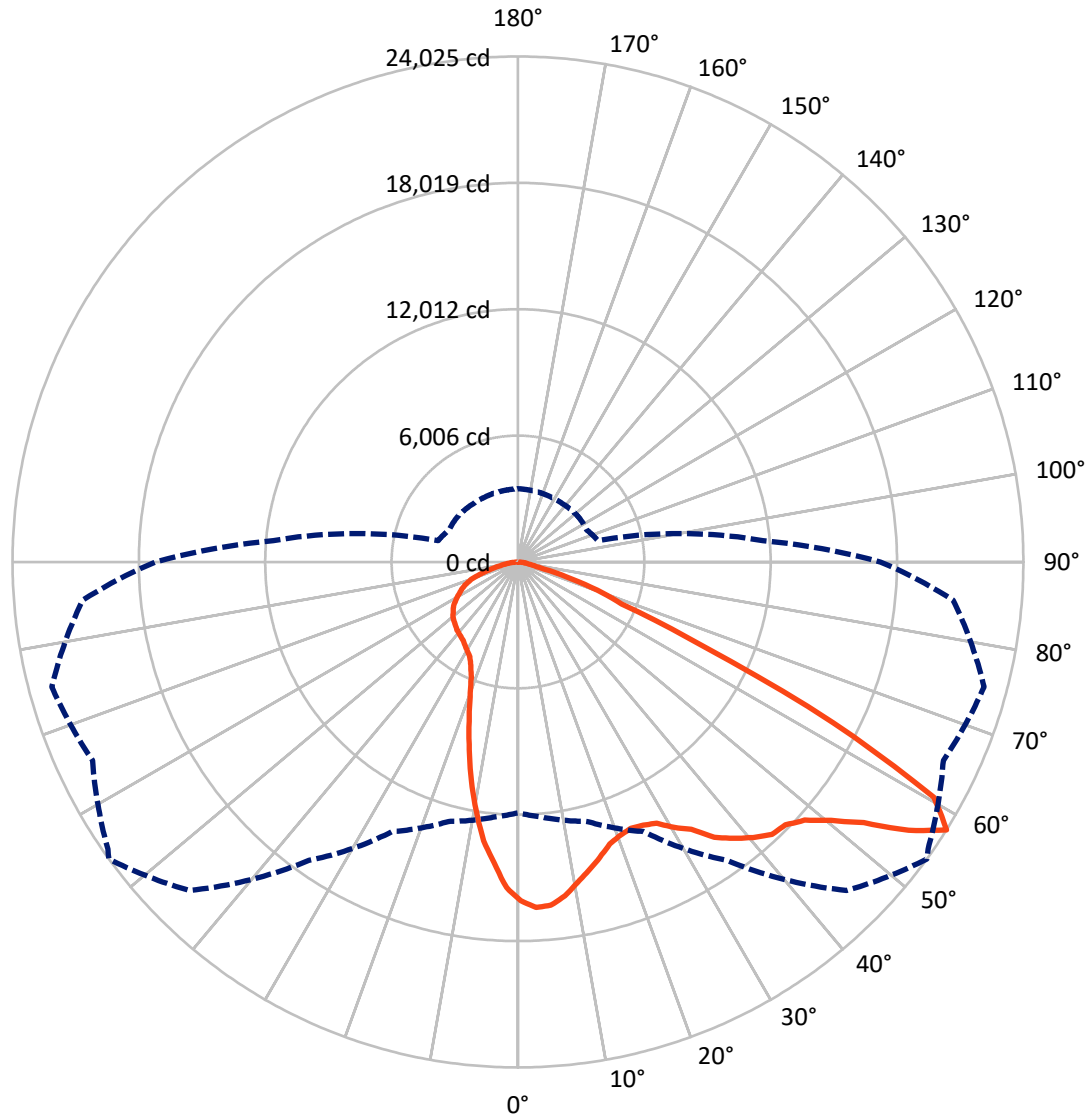
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11460.7	0.0	11460.7
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	29965.3	0.0	29965.3
	% Fixture	72.3	0.0	72.3
Total	Lumens	41426.0	0.0	41426.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1388.6	3.4
10°-20°	3215.2	7.8
20°-30°	4517.4	10.9
30°-40°	6315.3	15.2
40°-50°	8549.7	20.6
50°-60°	10413.9	25.1
60°-70°	5424.0	13.1
70°-80°	1389.8	3.4
80°-90°	212.0	0.5
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°	41426.0	100.0
0°-180°	41426.0	100.0

Coefficient of Utilization



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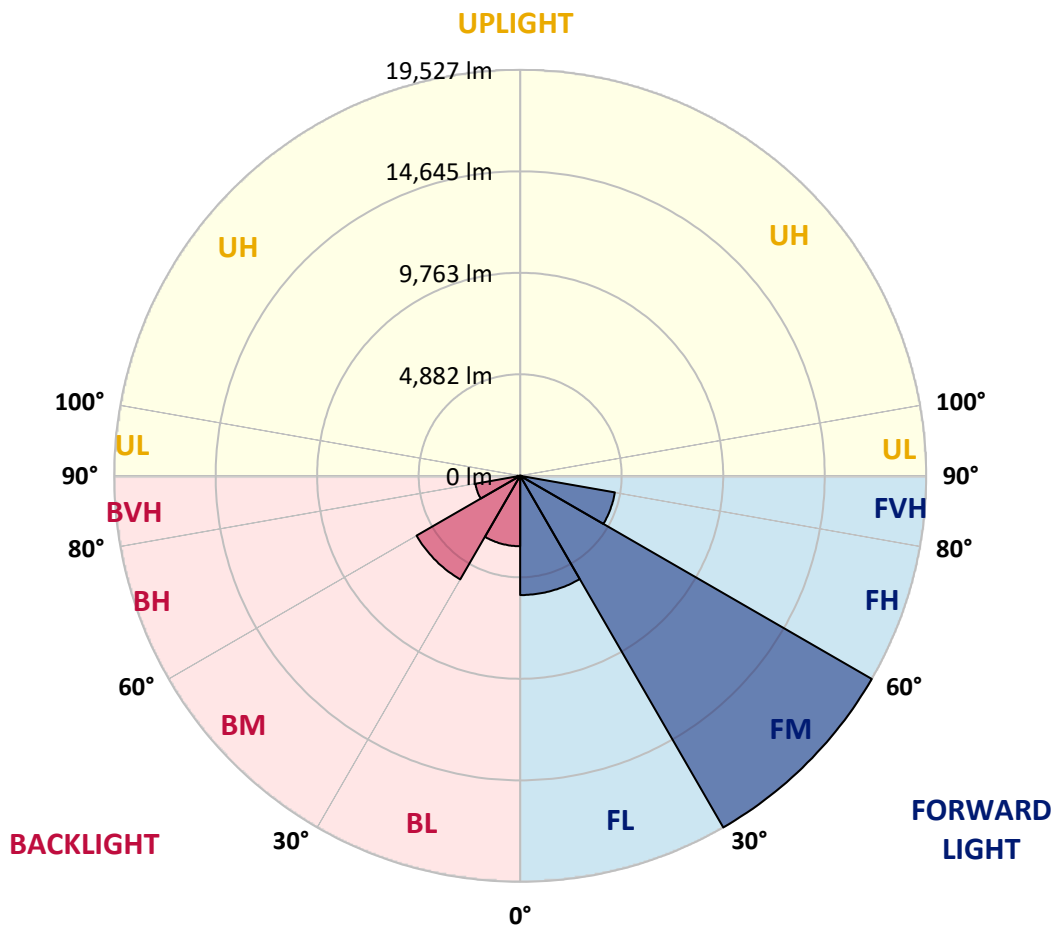
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5733.9	13.8			
FM (30°-60°)	19526.9	47.1			
FH (60°-80°)	4624.3	11.2			G2/5000
FVH (80°-90°)	80.1	0.2			G1/100
BL (0°-30°)	3387.2	8.2	B4/5000		
BM (30°-60°)	5752.0	13.9	B4/8500		
BH (60°-80°)	2189.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	131.9	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	16101.8	16101.8	16101.8	16101.8	16101.8	16101.8	16101.8	16101.8	16101.8	16101.8	16101.8
2.5°	16559.7	16495.8	16506.5	16591.7	16485.2	16442.6	16442.6	16234.9	16250.9	16107.1	16069.9
5°	16176.4	16027.3	16128.4	16256.2	16277.5	16320.1	16389.3	16336.1	16187.0	16032.6	15782.3
7.5°	15175.3	15308.4	15345.7	15436.2	15627.9	15803.6	16021.9	15872.9	15867.5	15713.1	15564.0
10°	14296.7	14216.9	14419.2	14552.3	14871.8	15164.7	15500.1	15484.1	15564.0	15388.3	15132.7
12.5°	13423.5	13359.6	13455.4	13759.0	14206.2	14632.2	15031.6	14882.5	15308.4	15276.5	14728.0
15°	12497.0	12544.9	12683.4	12965.6	13551.3	14062.5	14568.3	14573.6	14951.7	15079.5	14344.7
17.5°	11847.4	11794.2	11969.9	12390.5	12912.3	13524.7	14099.7	14216.9	14797.3	14871.8	14227.5
20°	11362.9	11437.4	11666.4	11879.3	12481.0	13221.2	13870.8	13913.4	14765.3	14967.7	14041.2
22.5°	11245.7	11203.1	11277.7	11623.8	12119.0	12923.0	13748.3	13908.0	14760.0	14935.7	13689.7
25°	11123.2	11261.7	11256.4	11602.5	11964.5	12683.4	13849.5	14025.2	15042.2	15100.8	13737.7
27.5°	11400.1	11384.2	11533.2	11559.9	12007.1	12747.3	14062.5	14195.6	15510.8	15462.9	13774.9
30°	11677.0	11597.1	11687.7	12001.8	12209.5	13114.7	14648.2	14637.5	16117.8	16085.8	13892.1
32.5°	12017.8	11980.5	12039.1	12316.0	12667.4	13604.5	15143.4	15457.5	16735.4	16937.8	14296.7
35°	12081.7	12236.1	12374.5	12747.3	13247.8	14397.9	16075.2	16336.1	17449.0	18082.6	15068.8
37.5°	12486.4	12544.9	12869.7	13530.0	13987.9	15457.5	16666.2	16831.3	18098.6	18817.4	15883.5
40°	12917.7	12986.9	13476.7	14169.0	14797.3	16149.7	17220.0	17273.2	18306.2	19381.8	16416.0
42.5°	13503.4	13567.3	14051.8	14919.7	15761.0	16740.8	17709.9	17768.4	18290.3	20031.4	17262.6
45°	14110.4	14264.8	14834.5	15819.6	16575.7	17433.0	17821.7	18061.3	18439.3	20611.8	17949.5
47.5°	14962.3	15106.1	15574.7	16538.4	17422.3	18040.0	18338.2	18572.5	18796.1	21117.7	18391.4
50°	15867.5	15894.1	16463.9	17337.1	17986.7	18726.9	19301.9	19381.8	19264.7	21703.4	19142.2
52.5°	16533.1	16618.3	17060.3	17912.2	18881.3	19791.8	20579.9	20665.1	20436.1	21921.7	19397.8
55°	15430.9	15383.0	16101.8	17236.0	19483.0	21378.6	22523.4	22587.3	21288.0	22597.9	20233.8
57.5°	11927.3	12156.2	12768.6	14137.0	17310.5	22081.4	24024.9	23796.0	22310.4	22938.7	20766.2
60°	8668.6	8615.3	9025.3	9941.2	13045.4	19030.4	22715.1	22949.3	21474.4	20675.7	17124.1
62.5°	7060.5	6986.0	7017.9	7049.9	8418.3	12630.1	16815.3	16810.0	16538.4	14861.2	11549.2
65°	5644.2	5819.9	5835.8	6075.5	6251.2	7545.1	9744.2	10266.0	8940.1	7332.1	5319.3
67.5°	4254.4	4190.5	4403.5	5255.5	5585.6	5447.1	5319.3	5377.9	3823.1	2758.2	2598.4
70°	2507.9	2481.3	2736.9	3663.4	4600.5	4329.0	4009.5	4014.8	2625.1	1927.5	2145.8
72.5°	1373.8	1368.4	1421.7	1858.3	2614.4	2715.6	2406.8	2481.3	1565.5	1560.1	1677.3
75°	766.8	750.8	734.8	820.0	942.5	995.7	1017.0	1027.7	1075.6	1203.4	1251.3
77.5°	282.2	271.6	271.6	314.2	399.4	500.5	633.6	644.3	761.4	873.2	921.2
80°	95.8	106.5	143.8	197.0	266.2	356.8	431.3	441.9	537.8	612.3	628.3
82.5°	58.6	63.9	95.8	138.4	191.7	250.3	319.5	324.8	399.4	447.3	468.6
85°	26.6	31.9	53.2	85.2	122.5	165.1	170.4	170.4	165.1	170.4	159.7
87.5°	0.0	0.0	10.6	10.6	10.6	16.0	21.3	16.0	26.6	31.9	31.9
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°	16101.8	16101.8	16101.8	16101.8	16101.8	16101.8	16101.8	16101.8	16101.8	16101.8	16101.8
2.5°	15958.0	15899.5	15718.4	15558.7	15510.8	15297.8	14983.6	15020.9	14791.9	14898.4	14786.6
5°	15739.7	15542.7	15079.5	14882.5	14366.0	14131.7	13971.9	13572.6	13386.2	13349.0	13189.2
7.5°	15180.6	15058.2	14477.8	13945.3	13396.9	12928.3	12326.6	11916.6	11623.8	11543.9	11309.6
10°	14738.7	14467.1	13663.1	12853.8	12071.0	11256.4	10473.6	9861.3	9563.1	9217.0	9099.9
12.5°	14302.1	13892.1	12805.8	11767.5	10755.8	9728.2	8780.4	8034.9	7385.3	7230.9	7177.7
15°	14030.5	13317.0	12039.1	10787.8	9350.1	8008.3	7060.5	6570.6	6171.3	6006.2	6123.4
17.5°	13673.8	12843.1	11304.3	9637.7	8056.2	6820.9	6027.5	5724.0	5580.3	5596.2	5548.3
20°	13226.5	12395.8	10340.5	8594.0	6900.8	5915.7	5463.1	5351.3	5372.6	5409.9	5393.9
22.5°	12907.0	11852.7	9643.0	7529.1	5963.6	5415.2	5228.8	5149.0	5218.2	5250.1	5223.5
25°	12662.1	11389.5	8796.4	6586.6	5420.5	5133.0	5047.8	5042.5	5149.0	5191.6	5164.9
27.5°	12438.4	10958.2	7955.1	5867.8	5058.4	4914.7	4888.0	4951.9	5021.2	5063.8	5101.0
30°	12305.3	10628.0	7167.0	5266.1	4877.4	4808.2	4760.3	4818.8	4856.1	4898.7	4877.4
32.5°	12433.1	10393.8	6405.6	4925.3	4728.3	4659.1	4723.0	4685.7	4749.6	4786.9	4728.3
35°	12832.5	10186.1	5862.5	4744.3	4557.9	4584.5	4595.2	4579.2	4605.8	4573.9	4643.1
37.5°	13226.5	10111.6	5361.9	4589.9	4478.1	4478.1	4467.4	4435.5	4488.7	4478.1	4510.0
40°	13727.0	10159.5	4936.0	4424.8	4403.5	4392.9	4350.3	4344.9	4323.6	4329.0	4339.6
42.5°	14163.6	10266.0	4691.0	4318.3	4334.3	4355.6	4275.7	4211.8	4238.4	4185.2	4185.2
45°	14626.9	10361.8	4472.7	4243.8	4227.8	4222.5	4158.6	4121.3	4100.0	4105.3	4153.2
47.5°	15356.4	10500.3	4307.7	4142.6	4153.2	4073.4	4057.4	4009.5	4030.8	4062.7	4068.1
50°	15872.9	10793.1	4179.9	4025.5	4062.7	4009.5	3913.6	3892.3	3892.3	3945.6	3934.9
52.5°	16234.9	11203.1	4057.4	3897.7	3913.6	3871.0	3839.1	3791.2	3759.2	3833.8	3871.0
55°	17342.5	11884.7	4025.5	3791.2	3785.8	3743.2	3684.7	3636.8	3620.8	3631.4	3706.0
57.5°	17236.0	11671.7	3924.3	3604.8	3594.2	3535.6	3477.0	3461.0	3455.7	3466.4	3487.7
60°	13993.2	8620.6	3503.6	3391.8	3375.8	3365.2	3306.6	3242.7	3210.8	3242.7	3216.1
62.5°	9259.6	5771.9	3088.3	3136.2	3146.9	3120.3	3024.4	2960.5	2971.2	3008.4	2949.9
65°	4547.3	3391.8	2800.8	2928.6	2939.2	2864.7	2774.2	2699.6	2662.3	2694.3	2667.7
67.5°	2598.4	2593.1	2566.5	2699.6	2694.3	2619.7	2476.0	2412.1	2348.2	2358.8	2342.9
70°	2204.4	2247.0	2300.3	2380.1	2374.8	2289.6	2119.2	2071.3	1980.8	1970.1	1943.5
72.5°	1735.8	1810.4	1927.5	1986.1	1938.2	1831.7	1719.9	1640.0	1560.1	1512.2	1528.2
75°	1288.6	1395.1	1459.0	1496.2	1421.7	1363.1	1272.6	1176.8	1080.9	1038.3	1022.3
77.5°	937.1	969.1	1027.7	1054.3	1006.4	947.8	894.5	798.7	708.2	649.6	633.6
80°	654.9	676.2	718.8	718.8	718.8	692.2	623.0	527.1	468.6	415.3	404.7
82.5°	457.9	479.2	521.8	500.5	495.2	463.2	420.6	346.1	282.2	244.9	234.3
85°	159.7	175.7	213.0	255.6	271.6	266.2	239.6	191.7	149.1	122.5	111.8
87.5°	37.3	37.3	42.6	37.3	37.3	42.6	37.3	37.3	37.3	26.6	21.3
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)