

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: P533070

Luminaire Tested: **GALN-SA8C-727-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533070
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-SA8C-727-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 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: 40166 lumens
Efficiency: N/A
Efficacy: 93.6 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

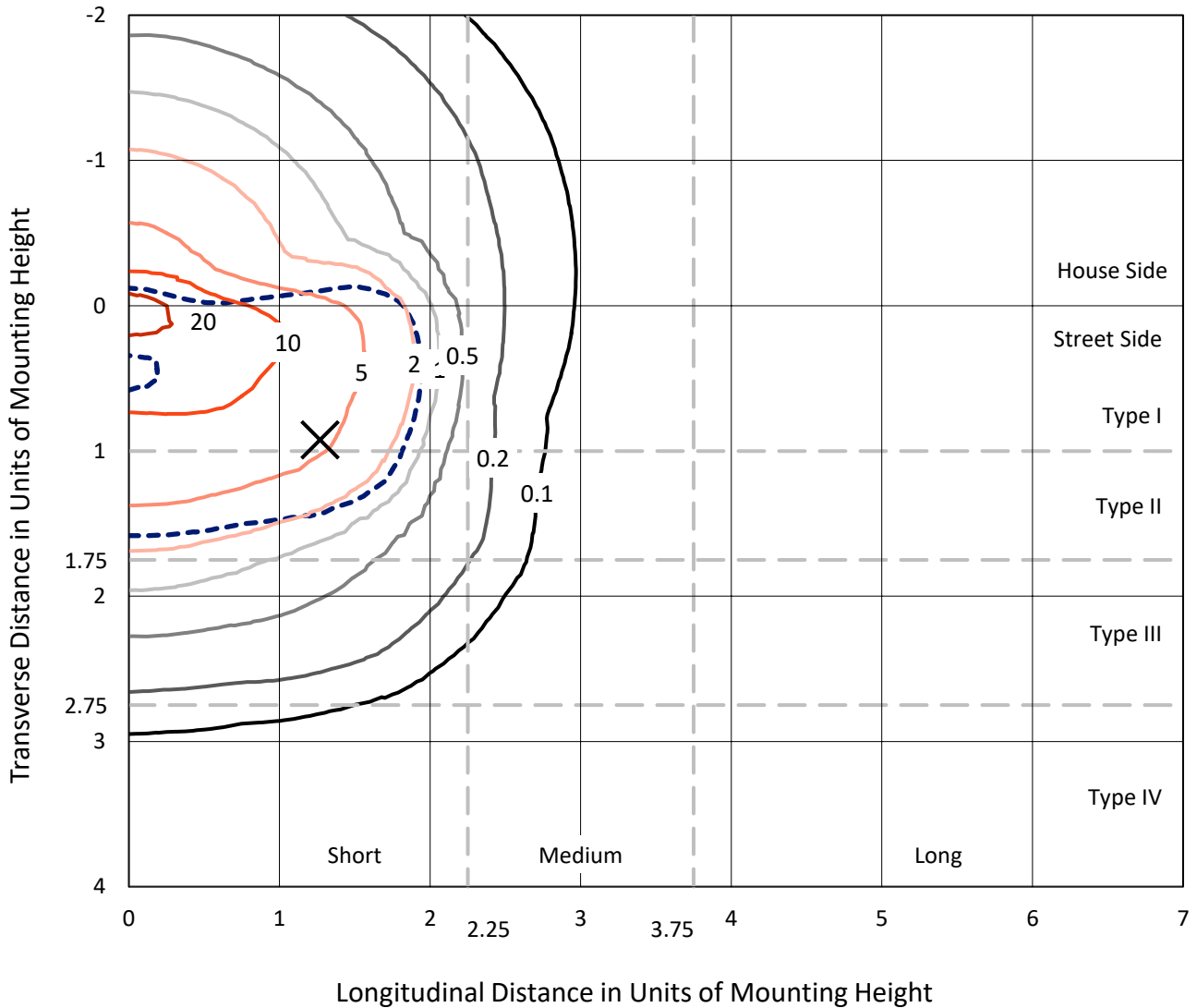
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

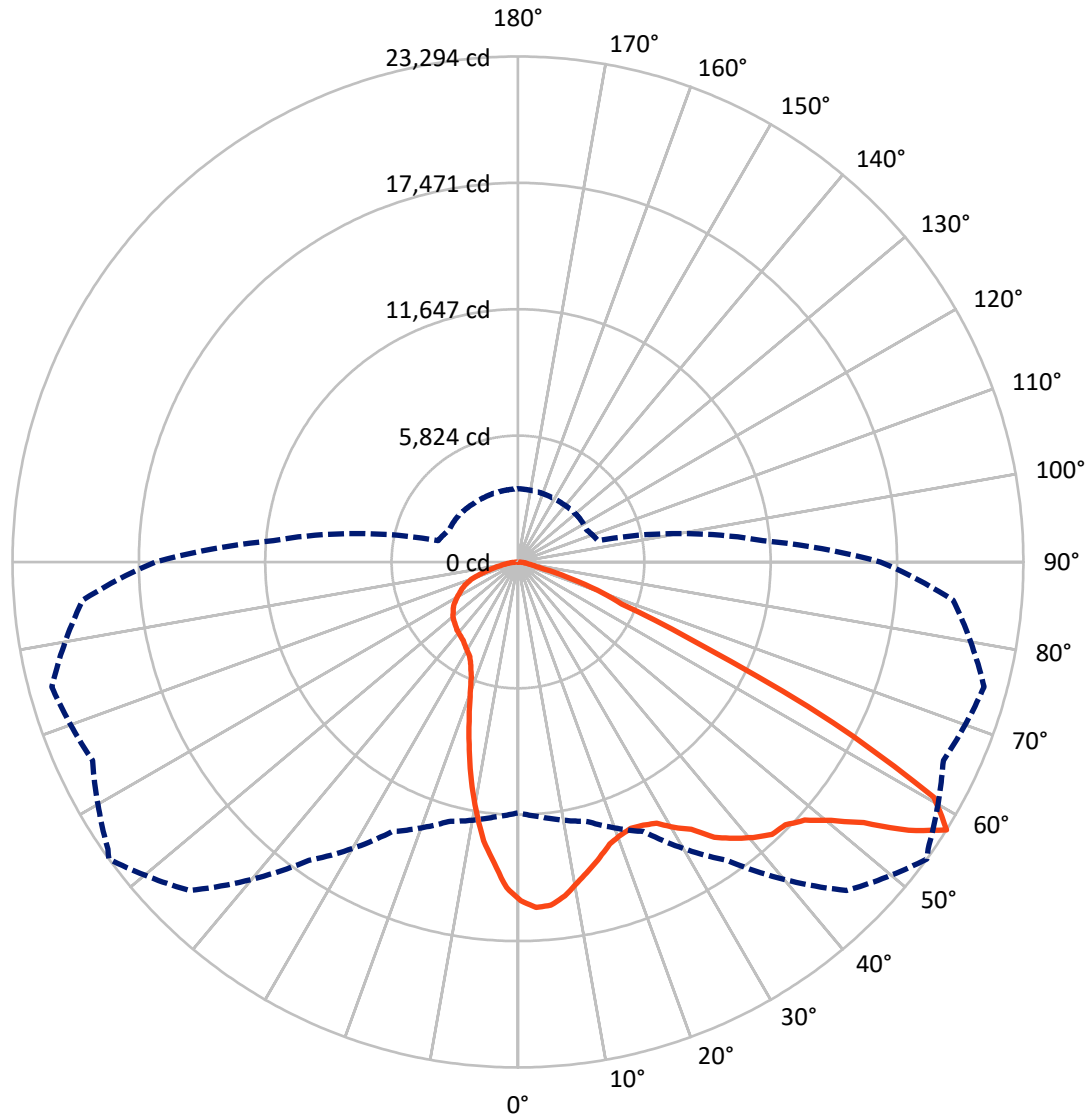
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25 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	11112.1	0.0	11112.1
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	29053.9	0.0	29053.9
	% Fixture	72.3	0.0	72.3
Total	Lumens	40166.0	0.0	40166.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1346.4	3.4
10°-20°	3117.4	7.8
20°-30°	4380.0	10.9
30°-40°	6123.2	15.2
40°-50°	8289.7	20.6
50°-60°	10097.2	25.1
60°-70°	5259.1	13.1
70°-80°	1347.6	3.4
80°-90°	205.6	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°	40166.0	100.0
0°-180°	40166.0	100.0

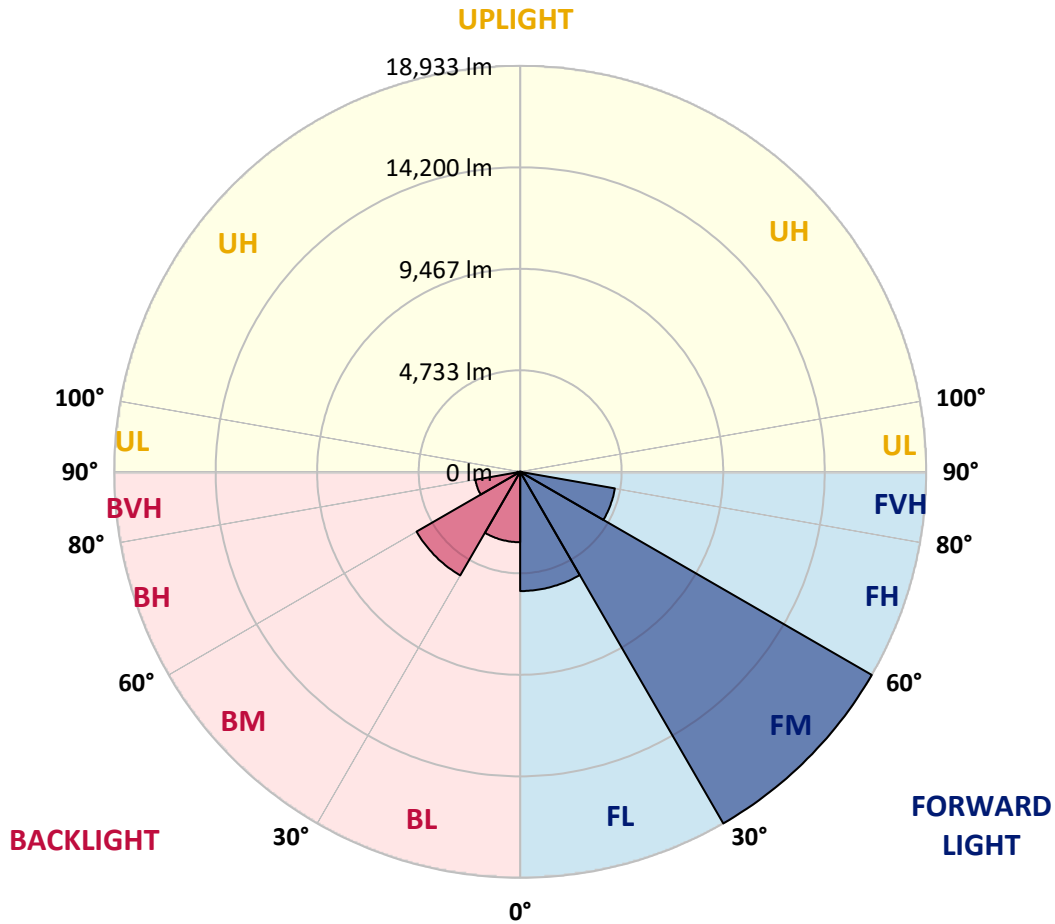


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5559.5	13.8			
FM (30°-60°)	18933.0	47.1			
FH (60°-80°)	4483.7	11.2			G2/5000
FVH (80°-90°)	77.7	0.2			G1/100
BL (0°-30°)	3284.2	8.2	B4/5000		
BM (30°-60°)	5577.1	13.9	B4/8500		
BH (60°-80°)	2123.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	127.9	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°	15612.1	15612.1	15612.1	15612.1	15612.1	15612.1	15612.1	15612.1	15612.1	15612.1	15612.1
2.5°	16056.1	15994.1	16004.4	16087.0	15983.8	15942.5	15942.5	15741.1	15756.6	15617.2	15581.1
5°	15684.3	15539.8	15637.9	15761.8	15782.4	15823.7	15890.9	15839.2	15694.7	15544.9	15302.3
7.5°	14713.8	14842.8	14879.0	14966.7	15152.6	15323.0	15534.6	15390.1	15384.9	15235.2	15090.6
10°	13861.9	13784.5	13980.6	14109.7	14419.5	14703.4	15028.7	15013.2	15090.6	14920.3	14672.4
12.5°	13015.2	12953.3	13046.2	13340.5	13774.1	14187.2	14574.4	14429.8	14842.8	14811.8	14280.1
15°	12116.9	12163.4	12297.6	12571.2	13139.1	13634.7	14125.2	14130.4	14496.9	14620.8	13908.4
17.5°	11487.1	11435.4	11605.8	12013.6	12519.6	13113.3	13670.9	13784.5	14347.2	14419.5	13794.8
20°	11017.2	11089.5	11311.5	11518.0	12101.4	12819.0	13448.9	13490.2	14316.2	14512.4	13614.1
22.5°	10903.7	10862.4	10934.6	11270.2	11750.3	12529.9	13330.1	13485.0	14311.1	14481.4	13273.4
25°	10784.9	10919.2	10914.0	11249.6	11600.6	12297.6	13428.2	13598.6	14584.7	14641.5	13319.8
27.5°	11053.4	11037.9	11182.5	11208.3	11641.9	12359.6	13634.7	13763.8	15039.0	14992.5	13356.0
30°	11321.8	11244.4	11332.2	11636.8	11838.1	12715.8	14202.6	14192.3	15627.6	15596.6	13469.5
32.5°	11652.3	11616.1	11672.9	11941.4	12282.1	13190.7	14682.8	14987.4	16226.4	16422.6	13861.9
35°	11714.2	11863.9	11998.2	12359.6	12844.8	13960.0	15586.3	15839.2	16918.2	17532.6	14610.5
37.5°	12106.6	12163.4	12478.3	13118.5	13562.5	14987.4	16159.3	16319.4	17548.1	18245.1	15400.4
40°	12524.8	12591.9	13066.8	13738.0	14347.2	15658.5	16696.2	16747.9	17749.4	18792.3	15916.7
42.5°	13092.7	13154.6	13624.4	14465.9	15281.7	16231.6	17171.2	17228.0	17733.9	19422.2	16737.5
45°	13681.2	13830.9	14383.3	15338.4	16071.5	16902.7	17279.6	17511.9	17878.5	19984.9	17403.5
47.5°	14507.2	14646.6	15101.0	16035.4	16892.4	17491.3	17780.4	18007.6	18224.4	20475.3	17832.0
50°	15384.9	15410.7	15963.1	16809.8	17439.7	18157.3	18714.9	18792.3	18678.7	21043.2	18560.0
52.5°	16030.2	16112.8	16541.4	17367.4	18307.0	19189.8	19953.9	20036.5	19814.5	21254.9	18807.8
55°	14961.6	14915.1	15612.1	16711.7	18890.4	20728.3	21838.3	21900.3	20640.6	21910.6	19618.3
57.5°	11564.5	11786.5	12380.2	13707.0	16784.0	21409.8	23294.2	23072.2	21631.8	22241.0	20134.6
60°	8404.9	8353.3	8750.8	9638.8	12648.7	18451.6	22024.2	22251.3	20821.2	20046.8	16603.3
62.5°	6845.8	6773.5	6804.5	6835.4	8162.3	12246.0	16303.9	16298.7	16035.4	14409.2	11197.9
65°	5472.5	5642.9	5658.3	5890.7	6061.0	7315.6	9447.8	9953.7	8668.2	7109.1	5157.6
67.5°	4125.0	4063.1	4269.6	5095.6	5415.7	5281.5	5157.6	5214.3	3706.8	2674.3	2519.4
70°	2431.6	2405.8	2653.6	3552.0	4460.6	4197.3	3887.5	3892.7	2545.2	1868.9	2080.6
72.5°	1332.0	1326.8	1378.4	1801.8	2534.9	2633.0	2333.5	2405.8	1517.8	1512.7	1626.3
75°	743.4	727.9	712.5	795.1	913.8	965.4	986.1	996.4	1042.9	1166.8	1213.2
77.5°	273.6	263.3	263.3	304.6	387.2	485.3	614.4	624.7	738.3	846.7	893.2
80°	92.9	103.3	139.4	191.0	258.1	345.9	418.2	428.5	521.4	593.7	609.2
82.5°	56.8	62.0	92.9	134.2	185.9	242.6	309.8	314.9	387.2	433.7	454.3
85°	25.8	31.0	51.6	82.6	118.7	160.0	165.2	165.2	160.0	165.2	154.9
87.5°	0.0	0.0	10.3	10.3	10.3	15.5	20.7	15.5	25.8	31.0	31.0
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°	15612.1	15612.1	15612.1	15612.1	15612.1	15612.1	15612.1	15612.1	15612.1	15612.1	15612.1
2.5°	15472.7	15415.9	15240.3	15085.5	15039.0	14832.5	14527.9	14564.0	14342.0	14445.3	14336.9
5°	15261.0	15070.0	14620.8	14429.8	13929.0	13701.9	13547.0	13159.8	12979.1	12942.9	12788.1
7.5°	14718.9	14600.2	14037.4	13521.2	12989.4	12535.1	11951.7	11554.2	11270.2	11192.8	10965.6
10°	14290.4	14027.1	13247.5	12462.8	11703.9	10914.0	10155.1	9561.4	9272.2	8936.7	8823.1
12.5°	13867.1	13469.5	12416.3	11409.6	10428.7	9432.3	8513.3	7790.5	7160.7	7011.0	6959.3
15°	13603.8	12912.0	11672.9	10459.7	9065.7	7764.7	6845.8	6370.8	5983.6	5823.5	5937.1
17.5°	13257.9	12452.5	10960.5	9344.5	7811.2	6613.4	5844.2	5549.9	5410.5	5426.0	5379.6
20°	12824.2	12018.8	10026.0	8332.6	6690.9	5735.8	5297.0	5188.5	5209.2	5245.3	5229.8
22.5°	12514.4	11492.2	9349.7	7300.1	5782.2	5250.5	5069.8	4992.3	5059.5	5090.4	5064.6
25°	12276.9	11043.1	8528.8	6386.3	5255.6	4976.9	4894.3	4889.1	4992.3	5033.7	5007.8
27.5°	12060.1	10624.9	7713.1	5689.3	4904.6	4765.2	4739.4	4801.3	4868.4	4909.7	4945.9
30°	11931.0	10304.8	6949.0	5105.9	4729.1	4661.9	4615.5	4672.3	4708.4	4749.7	4729.1
32.5°	12055.0	10077.6	6210.8	4775.5	4584.5	4517.4	4579.3	4543.2	4605.1	4641.3	4584.5
35°	12442.2	9876.3	5684.2	4600.0	4419.3	4445.1	4455.4	4439.9	4465.8	4434.8	4501.9
37.5°	12824.2	9804.0	5198.9	4450.3	4341.8	4341.8	4331.5	4300.5	4352.2	4341.8	4372.8
40°	13309.5	9850.5	4785.8	4290.2	4269.6	4259.2	4217.9	4212.8	4192.1	4197.3	4207.6
42.5°	13732.8	9953.7	4548.4	4187.0	4202.5	4223.1	4145.7	4083.7	4109.5	4057.9	4057.9
45°	14182.0	10046.7	4336.7	4114.7	4099.2	4094.0	4032.1	3995.9	3975.3	3980.5	4026.9
47.5°	14889.3	10180.9	4176.6	4016.6	4026.9	3949.5	3934.0	3887.5	3908.2	3939.2	3944.3
50°	15390.1	10464.8	4052.7	3903.0	3939.2	3887.5	3794.6	3773.9	3773.9	3825.6	3815.2
52.5°	15741.1	10862.4	3934.0	3779.1	3794.6	3753.3	3722.3	3675.9	3644.9	3717.2	3753.3
55°	16815.0	11523.2	3903.0	3675.9	3670.7	3629.4	3572.6	3526.1	3510.6	3521.0	3593.3
57.5°	16711.7	11316.7	3804.9	3495.2	3484.8	3428.0	3371.3	3355.8	3350.6	3360.9	3381.6
60°	13567.6	8358.4	3397.1	3288.7	3273.2	3262.8	3206.0	3144.1	3113.1	3144.1	3118.3
62.5°	8978.0	5596.4	2994.4	3040.8	3051.2	3025.4	2932.4	2870.5	2880.8	2916.9	2860.1
65°	4409.0	3288.7	2715.6	2839.5	2849.8	2777.5	2689.8	2617.5	2581.4	2612.3	2586.5
67.5°	2519.4	2514.2	2488.4	2617.5	2612.3	2540.1	2400.7	2338.7	2276.8	2287.1	2271.6
70°	2137.4	2178.7	2230.3	2307.7	2302.6	2220.0	2054.8	2008.3	1920.5	1910.2	1884.4
72.5°	1683.0	1755.3	1868.9	1925.7	1879.2	1776.0	1667.6	1590.1	1512.7	1466.2	1481.7
75°	1249.4	1352.6	1414.6	1450.7	1378.4	1321.7	1233.9	1141.0	1048.0	1006.7	991.2
77.5°	908.6	939.6	996.4	1022.2	975.8	919.0	867.3	774.4	686.6	629.9	614.4
80°	635.0	655.7	697.0	697.0	697.0	671.2	604.0	511.1	454.3	402.7	392.4
82.5°	444.0	464.6	505.9	485.3	480.1	449.2	407.9	335.6	273.6	237.5	227.2
85°	154.9	170.4	206.5	247.8	263.3	258.1	232.3	185.9	144.6	118.7	108.4
87.5°	36.1	36.1	41.3	36.1	36.1	41.3	36.1	36.1	36.1	25.8	20.7
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)