

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: P530340

Luminaire Tested: **GALN-SA5C-740-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530340
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-SA5C-740-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 29786 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

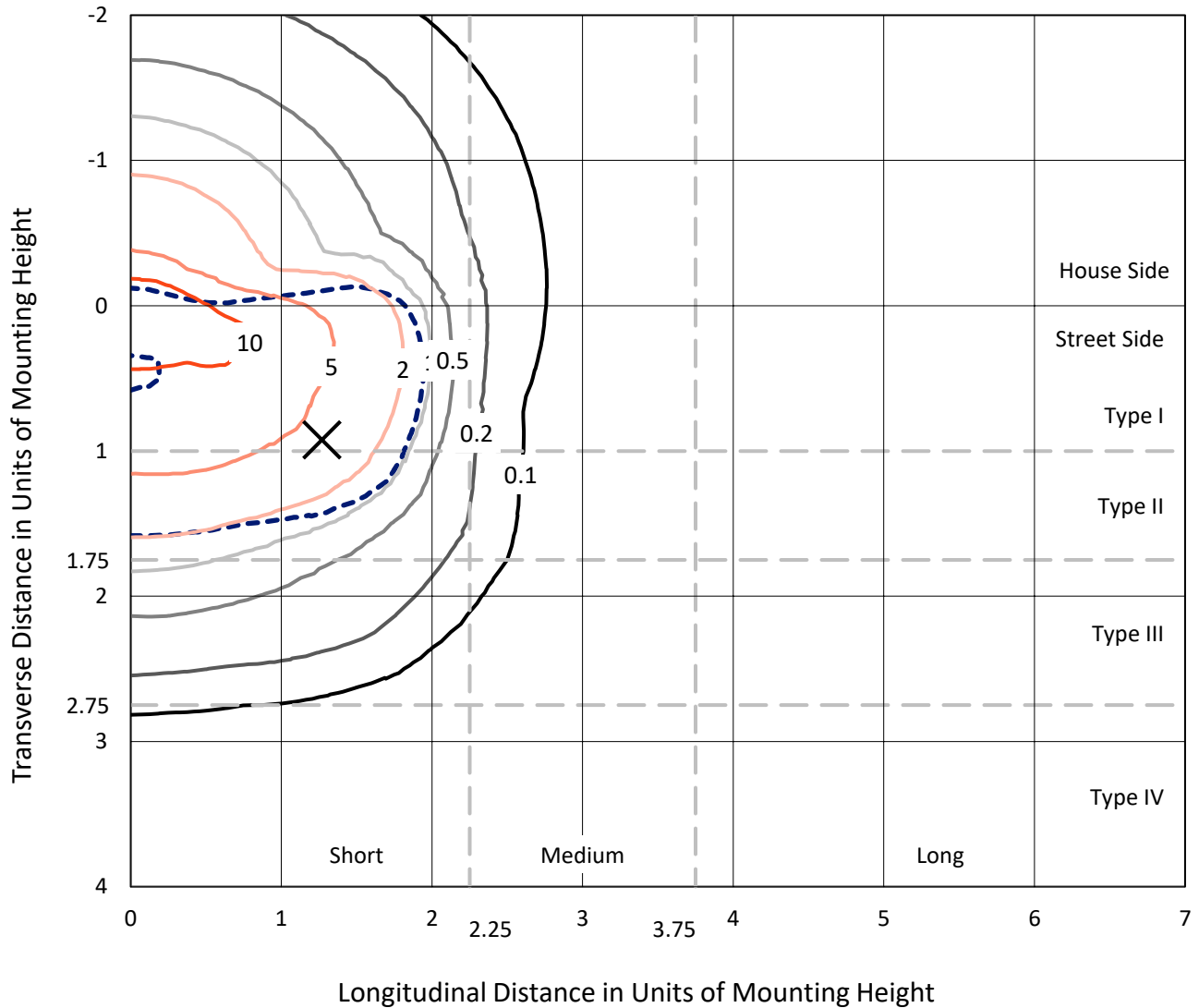
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

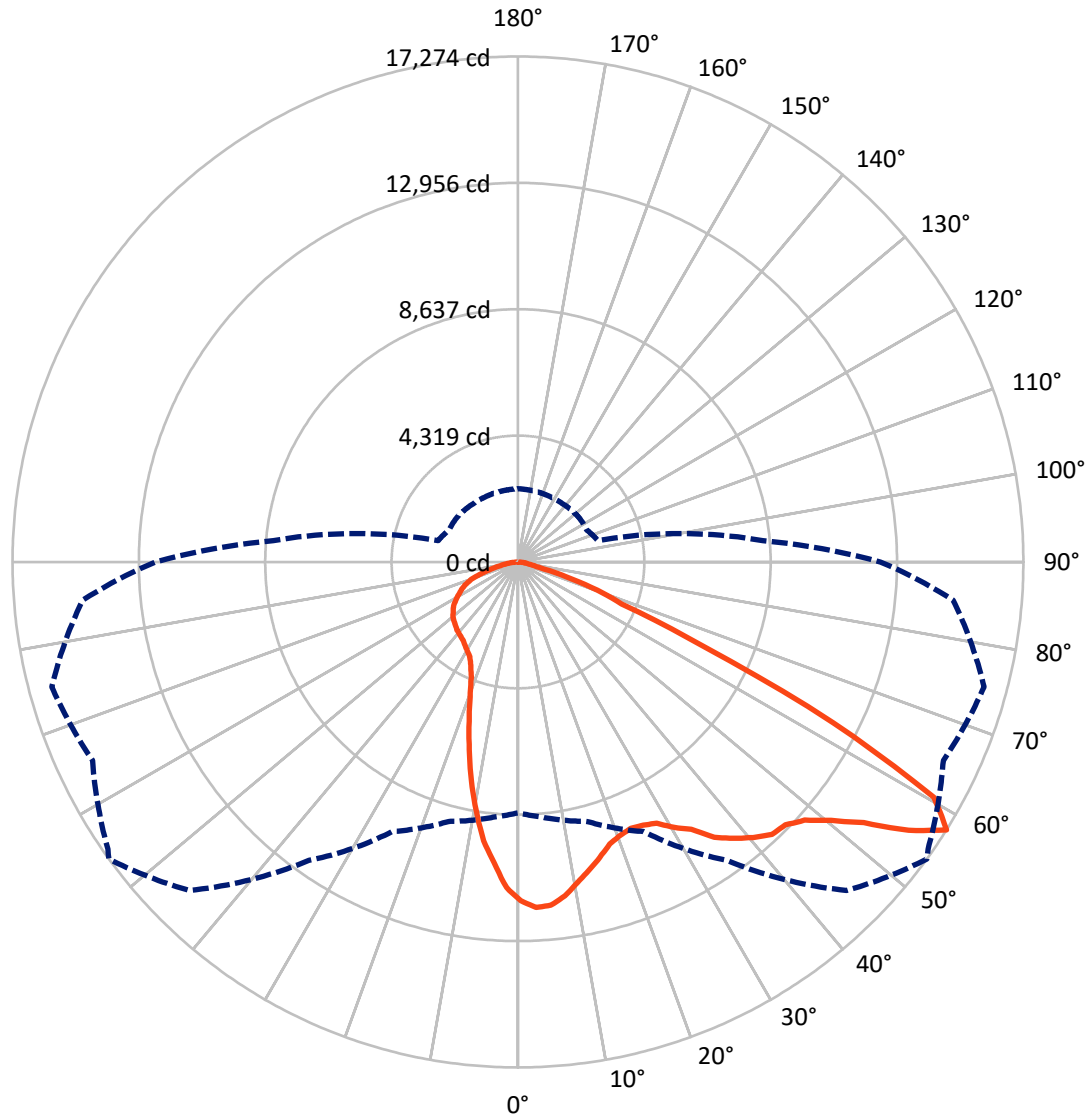
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 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	8240.5	0.0	8240.5
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	21545.5	0.0	21545.5
	% Fixture	72.3	0.0	72.3
Total	Lumens	29786.0	0.0	29786.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	998.4	3.4
10°-20°	2311.8	7.8
20°-30°	3248.1	10.9
30°-40°	4540.8	15.2
40°-50°	6147.4	20.6
50°-60°	7487.8	25.1
60°-70°	3900.0	13.1
70°-80°	999.3	3.4
80°-90°	152.4	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°	29786.0	100.0
0°-180°	29786.0	100.0

Coefficient of Utilization

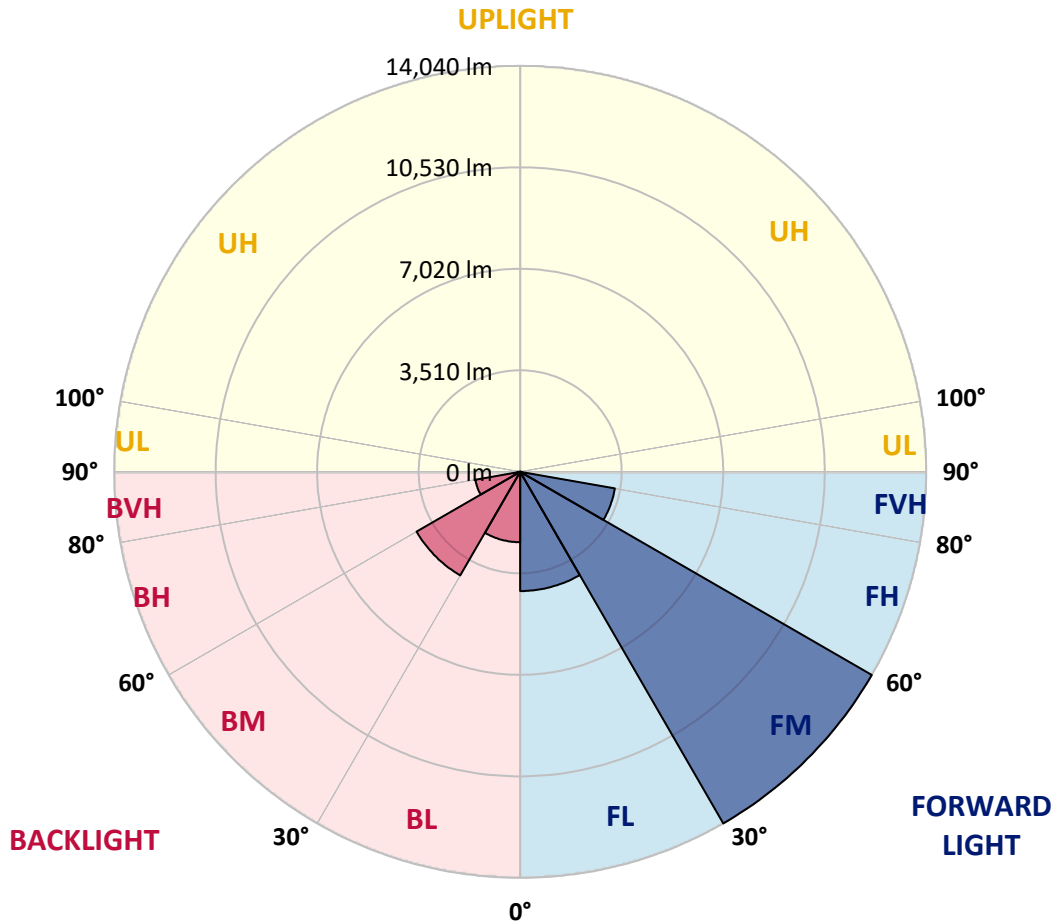


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4122.8	13.8			
FM (30°-60°)	14040.2	47.1			
FH (60°-80°)	3325.0	11.2			G2/5000
FVH (80°-90°)	57.6	0.2			G1/100
BL (0°-30°)	2435.5	8.2	B3/2500		
BM (30°-60°)	4135.8	13.9	B3/5000		
BH (60°-80°)	1574.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	94.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	11577.5	11577.5	11577.5	11577.5	11577.5	11577.5	11577.5	11577.5	11577.5	11577.5	11577.5
2.5°	11906.7	11860.8	11868.4	11929.7	11853.1	11822.5	11822.5	11673.2	11684.7	11581.3	11554.5
5°	11631.1	11523.9	11596.6	11688.5	11703.8	11734.4	11784.2	11745.9	11638.7	11527.7	11347.8
7.5°	10911.3	11007.0	11033.8	11098.9	11236.7	11363.1	11520.0	11412.9	11409.0	11298.0	11190.8
10°	10279.6	10222.2	10367.7	10463.4	10693.1	10903.7	11144.9	11133.4	11190.8	11064.5	10880.7
12.5°	9651.7	9605.8	9674.7	9892.9	10214.5	10520.8	10807.9	10700.7	11007.0	10984.1	10589.7
15°	8985.6	9020.0	9119.6	9322.5	9743.6	10111.1	10474.9	10478.7	10750.5	10842.4	10314.1
17.5°	8518.5	8480.2	8606.5	8909.0	9284.2	9724.5	10137.9	10222.2	10639.5	10693.1	10229.8
20°	8170.1	8223.7	8388.3	8541.5	8974.1	9506.2	9973.3	10004.0	10616.5	10762.0	10095.8
22.5°	8085.9	8055.2	8108.8	8357.7	8713.7	9291.8	9885.3	10000.1	10612.7	10739.0	9843.2
25°	7997.8	8097.3	8093.5	8342.4	8602.7	9119.6	9958.0	10084.4	10815.6	10857.7	9877.6
27.5°	8196.9	8185.4	8292.6	8311.7	8633.3	9165.5	10111.1	10206.9	11152.5	11118.1	9904.4
30°	8396.0	8338.5	8403.6	8629.5	8778.8	9429.7	10532.3	10524.6	11589.0	11566.0	9988.6
32.5°	8641.0	8614.2	8656.3	8855.4	9108.1	9781.9	10888.3	11114.2	12033.1	12178.6	10279.6
35°	8686.9	8798.0	8897.5	9165.5	9525.4	10352.3	11558.3	11745.9	12546.1	13001.7	10834.7
37.5°	8977.9	9020.0	9253.6	9728.3	10057.6	11114.2	11983.3	12102.0	13013.2	13530.0	11420.5
40°	9288.0	9337.8	9690.0	10187.7	10639.5	11611.9	12381.5	12419.8	13162.5	13935.9	11803.4
42.5°	9709.2	9755.1	10103.5	10727.5	11332.5	12036.9	12733.7	12775.8	13151.0	14402.9	12412.1
45°	10145.6	10256.6	10666.3	11374.6	11918.2	12534.6	12814.1	12986.4	13258.2	14820.2	12906.0
47.5°	10758.2	10861.5	11198.5	11891.4	12527.0	12971.1	13185.5	13353.9	13514.7	15184.0	13223.7
50°	11409.0	11428.2	11837.8	12465.7	12932.8	13464.9	13878.4	13935.9	13851.6	15605.1	13763.6
52.5°	11887.6	11948.8	12266.6	12879.2	13576.0	14230.6	14797.3	14858.5	14693.9	15762.1	13947.3
55°	11095.1	11060.6	11577.5	12393.0	14008.6	15371.6	16194.7	16240.6	15306.5	16248.3	14548.4
57.5°	8575.9	8740.5	9180.8	10164.7	12446.6	15876.9	17274.3	17109.7	16041.5	16493.3	14931.3
60°	6232.8	6194.6	6489.4	7147.9	9379.9	13683.2	16332.5	16501.0	15440.5	14866.2	12312.6
62.5°	5076.6	5023.0	5046.0	5069.0	6052.9	9081.3	12090.5	12086.7	11891.4	10685.4	8304.1
65°	4058.2	4184.6	4196.1	4368.4	4494.7	5425.0	7006.2	7381.4	6428.1	5271.9	3824.7
67.5°	3059.0	3013.1	3166.2	3778.8	4016.1	3916.6	3824.7	3866.8	2748.9	1983.2	1868.3
70°	1803.2	1784.1	1967.9	2634.0	3307.9	3112.6	2882.9	2886.7	1887.5	1385.9	1542.9
72.5°	987.8	983.9	1022.2	1336.2	1879.8	1952.6	1730.5	1784.1	1125.6	1121.8	1206.0
75°	551.3	539.8	528.3	589.6	677.6	715.9	731.2	738.9	773.4	865.2	899.7
77.5°	202.9	195.3	195.3	225.9	287.1	359.9	455.6	463.3	547.5	627.9	662.3
80°	68.9	76.6	103.4	141.7	191.4	256.5	310.1	317.8	386.7	440.3	451.8
82.5°	42.1	45.9	68.9	99.5	137.8	179.9	229.7	233.5	287.1	321.6	336.9
85°	19.1	23.0	38.3	61.3	88.1	118.7	122.5	122.5	118.7	122.5	114.9
87.5°	0.0	0.0	7.7	7.7	7.7	11.5	15.3	11.5	19.1	23.0	23.0
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°	11577.5	11577.5	11577.5	11577.5	11577.5	11577.5	11577.5	11577.5	11577.5	11577.5	11577.5
2.5°	11474.1	11432.0	11301.8	11187.0	11152.5	10999.4	10773.5	10800.3	10635.7	10712.2	10631.8
5°	11317.1	11175.5	10842.4	10700.7	10329.4	10160.9	10046.1	9758.9	9624.9	9598.1	9483.3
7.5°	10915.1	10827.1	10409.8	10026.9	9632.6	9295.7	8863.0	8568.3	8357.7	8300.3	8131.8
10°	10597.4	10402.1	9824.0	9242.1	8679.3	8093.5	7530.7	7090.4	6876.0	6627.2	6543.0
12.5°	10283.4	9988.6	9207.6	8461.1	7733.6	6994.7	6313.2	5777.3	5310.2	5199.1	5160.9
15°	10088.2	9575.2	8656.3	7756.6	6722.9	5758.1	5076.6	4724.4	4437.3	4318.6	4402.8
17.5°	9831.7	9234.4	8128.0	6929.6	5792.6	4904.3	4333.9	4115.7	4012.3	4023.8	3989.3
20°	9510.1	8912.8	7435.0	6179.2	4961.8	4253.5	3928.1	3847.7	3863.0	3889.8	3878.3
22.5°	9280.4	8522.3	6933.5	5413.5	4288.0	3893.6	3759.6	3702.2	3752.0	3774.9	3755.8
25°	9104.2	8189.2	6324.7	4735.9	3897.4	3690.7	3629.4	3625.6	3702.2	3732.8	3713.7
27.5°	8943.4	7879.1	5719.8	4219.0	3637.1	3533.7	3514.6	3560.5	3610.3	3640.9	3667.7
30°	8847.7	7641.7	5153.2	3786.4	3506.9	3457.2	3422.7	3464.8	3491.6	3522.2	3506.9
32.5°	8939.6	7473.3	4605.7	3541.4	3399.7	3350.0	3395.9	3369.1	3415.0	3441.8	3399.7
35°	9226.8	7324.0	4215.2	3411.2	3277.2	3296.4	3304.0	3292.5	3311.7	3288.7	3338.5
37.5°	9510.1	7270.4	3855.3	3300.2	3219.8	3219.8	3212.1	3189.2	3227.5	3219.8	3242.8
40°	9870.0	7304.8	3549.0	3181.5	3166.2	3158.5	3127.9	3124.1	3108.8	3112.6	3120.3
42.5°	10183.9	7381.4	3372.9	3104.9	3116.4	3131.7	3074.3	3028.4	3047.5	3009.2	3009.2
45°	10517.0	7450.3	3216.0	3051.3	3039.9	3036.0	2990.1	2963.3	2948.0	2951.8	2986.3
47.5°	11041.5	7549.9	3097.3	2978.6	2986.3	2928.8	2917.3	2882.9	2898.2	2921.2	2925.0
50°	11412.9	7760.4	3005.4	2894.4	2921.2	2882.9	2814.0	2798.7	2798.7	2836.9	2829.3
52.5°	11673.2	8055.2	2917.3	2802.5	2814.0	2783.3	2760.4	2725.9	2702.9	2756.5	2783.3
55°	12469.5	8545.3	2894.4	2725.9	2722.1	2691.5	2649.3	2614.9	2603.4	2611.1	2664.7
57.5°	12393.0	8392.1	2821.6	2591.9	2584.3	2542.1	2500.0	2488.5	2484.7	2492.4	2507.7
60°	10061.4	6198.4	2519.2	2438.8	2427.3	2419.6	2377.5	2331.6	2308.6	2331.6	2312.4
62.5°	6657.8	4150.1	2220.5	2255.0	2262.7	2243.5	2174.6	2128.7	2136.3	2163.1	2121.0
65°	3269.6	2438.8	2013.8	2105.7	2113.3	2059.7	1994.7	1941.1	1914.3	1937.2	1918.1
67.5°	1868.3	1864.5	1845.4	1941.1	1937.2	1883.6	1780.3	1734.3	1688.4	1696.0	1684.6
70°	1585.0	1615.6	1653.9	1711.4	1707.5	1646.3	1523.8	1489.3	1424.2	1416.6	1397.4
72.5°	1248.1	1301.7	1385.9	1428.0	1393.6	1317.0	1236.6	1179.2	1121.8	1087.3	1098.8
75°	926.5	1003.1	1049.0	1075.8	1022.2	980.1	915.0	846.1	777.2	746.6	735.1
77.5°	673.8	696.8	738.9	758.0	723.6	681.5	643.2	574.3	509.2	467.1	455.6
80°	470.9	486.2	516.9	516.9	516.9	497.7	447.9	379.0	336.9	298.6	291.0
82.5°	329.3	344.6	375.2	359.9	356.1	333.1	302.5	248.9	202.9	176.1	168.5
85°	114.9	126.3	153.1	183.8	195.3	191.4	172.3	137.8	107.2	88.1	80.4
87.5°	26.8	26.8	30.6	26.8	26.8	30.6	26.8	26.8	26.8	19.1	15.3
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)