

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: P528985

Luminaire Tested: **GALN-SA4A-760-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528985
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-760-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10559 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

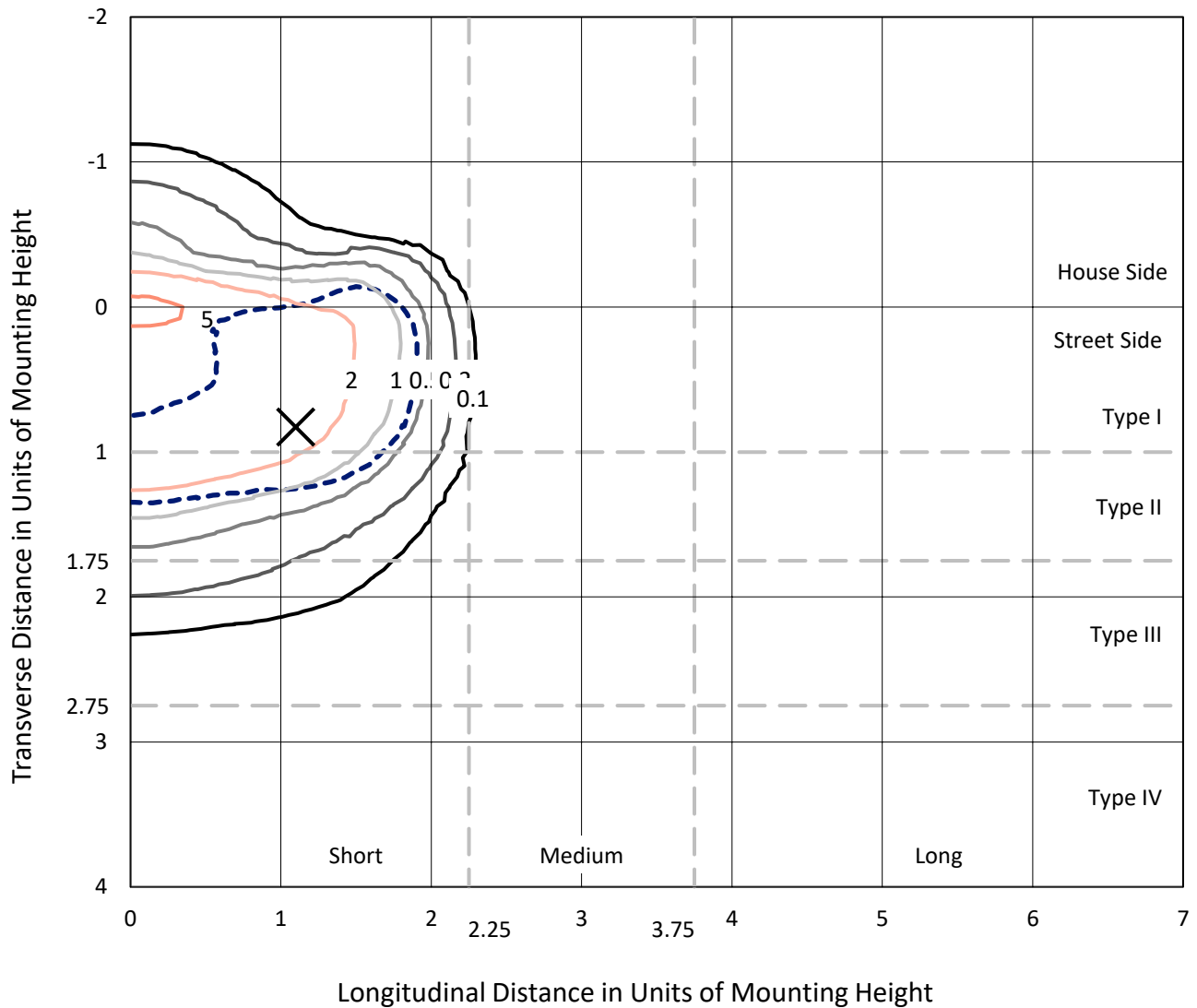
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

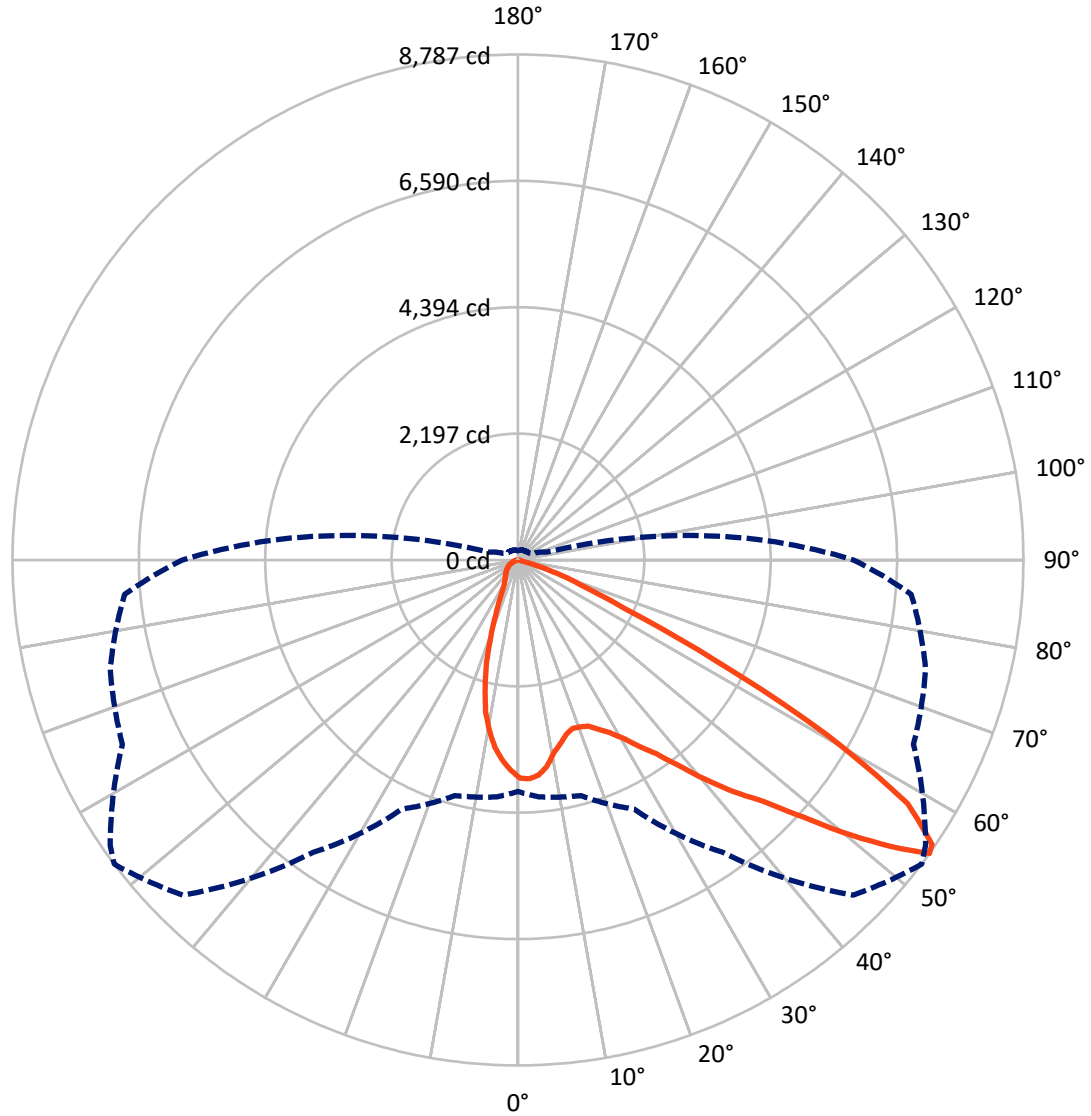
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1747.0	0.0	1747.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	8812.0	0.0	8812.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	10559.0	0.0	10559.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.4	3.1
10°-20°	746.0	7.1
20°-30°	1060.3	10.0
30°-40°	1636.3	15.5
40°-50°	2565.5	24.3
50°-60°	2980.2	28.2
60°-70°	1126.1	10.7
70°-80°	107.1	1.0
80°-90°	12.0	0.1
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°	10559.0	100.0
0°-180°	10559.0	100.0

Coefficient of Utilization



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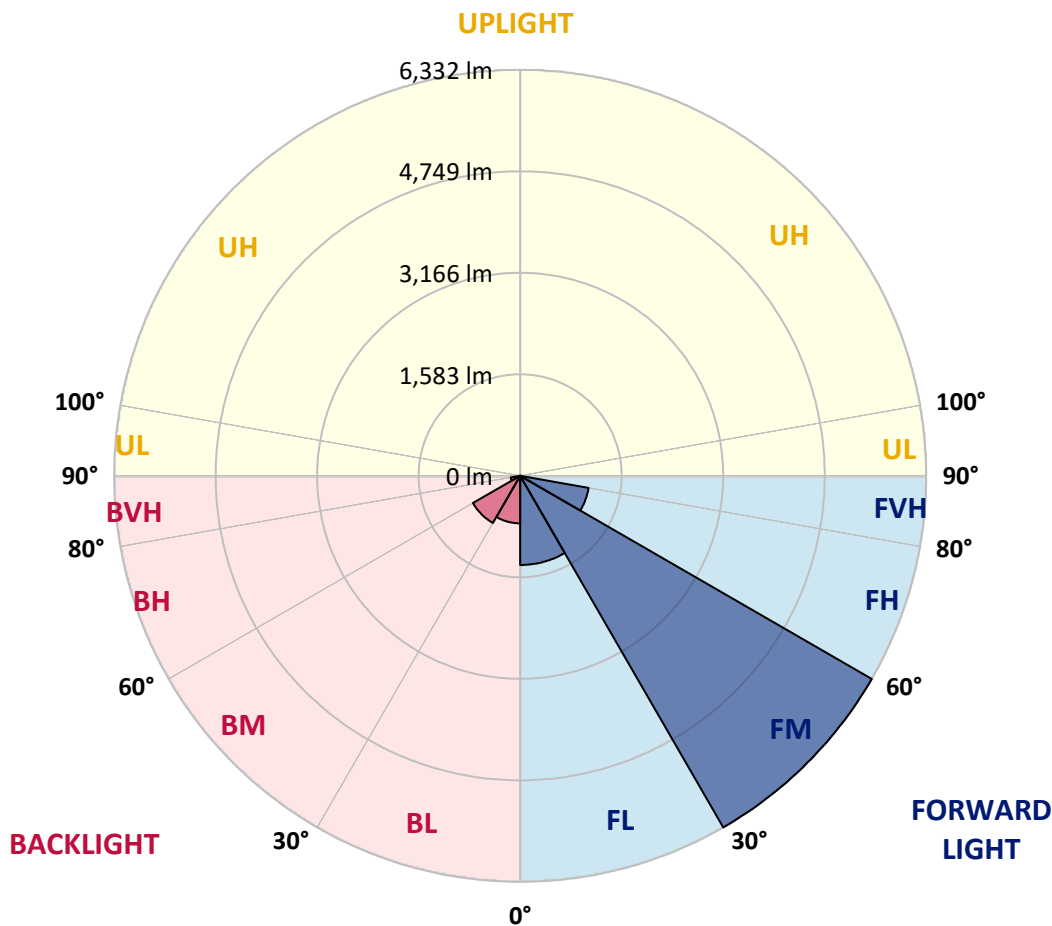
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1390.3	13.2			
FM (30°-60°)	6331.9	60.0			
FH (60°-80°)	1083.5	10.3			G1/1800
FVH (80°-90°)	6.2	0.1			G0/10
BL (0°-30°)	741.4	7.0	B2/1000		
BM (30°-60°)	850.1	8.1	B1/1000		
BH (60°-80°)	149.7	1.4	B1/500		G1/500
BVH (80°-90°)	5.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3792.6	3792.6	3792.6	3792.6	3792.6	3792.6	3792.6	3792.6	3792.6	3792.6	3792.6
2.5°	3772.9	3739.5	3772.9	3776.9	3800.5	3822.1	3808.4	3839.8	3822.1	3802.5	3796.5
5°	3468.0	3513.3	3515.3	3586.1	3570.3	3700.2	3757.2	3741.5	3837.9	3832.0	3818.2
7.5°	3194.6	3176.9	3200.5	3283.1	3387.4	3536.9	3619.5	3617.5	3755.2	3853.6	3843.8
10°	2940.9	2938.9	2988.1	3053.0	3141.5	3298.9	3413.0	3470.0	3684.4	3833.9	3855.6
12.5°	2769.7	2761.8	2815.0	2868.1	3007.7	3129.7	3275.3	3302.8	3548.7	3765.1	3800.5
15°	2657.6	2675.3	2679.2	2781.5	2870.0	3031.3	3145.4	3202.5	3485.7	3710.0	3845.7
17.5°	2637.9	2661.5	2663.5	2748.1	2842.5	2978.2	3078.5	3155.3	3432.6	3737.5	3847.7
20°	2677.3	2663.5	2675.3	2728.4	2820.9	2950.7	3096.3	3121.8	3414.9	3751.3	3869.3
22.5°	2789.4	2785.4	2755.9	2799.2	2864.1	2999.9	3137.6	3176.9	3466.1	3822.1	3887.0
25°	2913.3	2934.9	2907.4	2901.5	2946.8	3080.5	3263.5	3314.6	3637.2	3950.0	3942.1
27.5°	3145.4	3123.8	3123.8	3096.3	3084.5	3149.4	3399.2	3483.8	3828.0	4115.2	4005.1
30°	3367.7	3391.3	3373.6	3383.5	3304.8	3298.9	3592.0	3696.2	4166.4	4367.0	4138.8
32.5°	3719.8	3688.4	3717.9	3692.3	3588.0	3481.8	3853.6	3961.8	4575.5	4656.2	4339.5
35°	4012.9	3999.2	4125.1	4121.1	3952.0	3847.7	4131.0	4292.3	4860.8	5002.4	4575.5
37.5°	4430.0	4404.4	4548.0	4616.8	4465.4	4310.0	4528.3	4715.2	5126.3	5279.8	4817.5
40°	4858.8	4923.7	5116.5	5230.6	5069.3	4862.7	5014.2	5071.2	5303.4	5460.7	4982.7
42.5°	5401.7	5496.1	5692.9	5791.2	5777.4	5553.2	5507.9	5506.0	5431.2	5409.6	5104.7
45°	5923.0	5887.6	6190.5	6405.0	6578.1	6513.1	5984.0	5925.0	5633.8	5486.3	5136.2
47.5°	6151.2	6139.4	6345.9	6727.6	7317.7	7398.4	6676.4	6448.2	5976.1	5808.9	5307.3
50°	5856.1	5917.1	6121.7	6544.6	7449.5	8065.2	7526.2	7219.3	6375.4	6202.3	5712.5
52.5°	4892.2	4933.5	5128.3	5665.3	7001.0	8458.6	8340.6	8163.6	7109.2	6822.0	6418.7
54°	4022.8	4132.9	4239.2	4778.1	6202.3	8240.3	8787.1	8651.4	7587.2	7337.4	6863.3
55°	3503.4	3568.4	3645.1	4182.1	5649.6	7870.5	8736.0	8747.8	7907.8	7498.7	7162.3
57.5°	2559.2	2604.5	2525.8	2763.8	3879.2	6391.2	7990.5	8309.1	8340.6	7740.6	7345.2
60°	1955.3	1975.0	1886.5	1923.8	2411.7	4386.7	6180.7	6564.3	7524.2	6764.9	6222.0
62.5°	1516.7	1520.6	1518.6	1583.5	1662.2	2580.9	3865.4	4205.7	5187.3	4803.7	4225.4
65°	1117.3	1099.6	1131.1	1327.8	1418.3	1622.9	2036.0	2283.8	2818.9	2380.2	1701.6
67.5°	723.9	729.8	761.3	987.5	1215.7	1245.2	1253.1	1233.4	1235.4	680.6	426.9
70°	434.7	444.6	434.7	558.7	869.5	893.1	816.4	796.7	621.6	161.3	159.3
72.5°	257.7	243.9	218.4	240.0	362.0	432.8	389.5	387.5	243.9	94.4	94.4
75°	108.2	98.4	80.7	72.8	96.4	92.5	92.5	82.6	64.9	62.9	59.0
77.5°	21.6	21.6	15.7	17.7	23.6	27.5	33.4	33.4	39.3	39.3	37.4
80°	0.0	2.0	5.9	11.8	17.7	25.6	29.5	29.5	33.4	33.4	27.5
82.5°	0.0	2.0	5.9	11.8	15.7	23.6	29.5	29.5	33.4	35.4	29.5
85°	0.0	2.0	5.9	9.8	15.7	19.7	19.7	17.7	13.8	11.8	7.9
87.5°	0.0	0.0	2.0	3.9	2.0	3.9	3.9	3.9	3.9	3.9	3.9
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°	3792.6	3792.6	3792.6	3792.6	3792.6	3792.6	3792.6	3792.6	3792.6	3792.6	3792.6
2.5°	3810.3	3808.4	3761.1	3684.4	3666.7	3601.8	3593.9	3554.6	3576.2	3503.4	3495.6
5°	3778.8	3755.2	3698.2	3649.0	3505.4	3403.1	3322.5	3224.1	3167.1	3176.9	3139.5
7.5°	3824.1	3763.1	3662.8	3491.6	3316.6	3137.6	3041.2	2840.5	2767.7	2659.6	2643.8
10°	3776.9	3731.6	3576.2	3293.0	3051.0	2793.3	2567.1	2344.8	2175.6	2102.9	2087.1
12.5°	3772.9	3694.3	3434.6	3119.9	2769.7	2399.9	2071.4	1794.0	1626.8	1532.4	1510.8
15°	3712.0	3617.5	3275.3	2852.3	2368.4	1908.1	1550.1	1282.6	1154.7	1099.6	1115.4
17.5°	3717.9	3576.2	3115.9	2569.1	1973.0	1400.6	1058.3	920.6	887.2	900.9	900.9
20°	3712.0	3483.8	2923.1	2242.5	1510.8	971.8	777.0	727.8	749.5	792.8	782.9
22.5°	3680.5	3440.5	2746.1	1898.3	1111.4	720.0	623.6	625.5	659.0	712.1	723.9
25°	3704.1	3344.1	2521.9	1550.1	810.5	574.4	541.0	554.7	590.1	629.5	637.3
27.5°	3686.4	3275.3	2287.8	1203.9	592.1	493.7	491.8	507.5	523.3	552.8	552.8
30°	3706.1	3212.3	2057.6	895.0	487.8	452.4	444.6	456.4	472.1	478.0	476.0
32.5°	3778.8	3165.1	1792.0	668.8	430.8	413.1	413.1	413.1	411.1	419.0	421.0
35°	3938.2	3173.0	1558.0	517.4	393.4	379.7	373.8	365.9	362.0	365.9	367.9
37.5°	4111.3	3169.0	1316.0	440.6	365.9	354.1	340.3	328.5	326.5	330.5	324.6
40°	4188.0	3206.4	1091.8	395.4	340.3	326.5	304.9	295.1	297.0	301.0	297.0
42.5°	4292.3	3218.2	946.2	360.0	316.7	295.1	281.3	269.5	267.5	273.4	271.5
45°	4290.3	3151.3	792.8	340.3	295.1	271.5	253.8	243.9	243.9	247.9	249.8
47.5°	4416.2	3141.5	680.6	322.6	279.3	255.7	234.1	226.2	224.3	224.3	220.3
50°	4709.3	3279.2	594.1	302.9	259.7	238.0	220.3	210.5	202.6	198.7	196.7
52.5°	5281.7	3708.0	527.2	279.3	238.0	220.3	204.6	196.7	186.9	177.0	175.1
54°	5836.5	4150.6	523.3	259.7	220.3	208.5	194.7	190.8	179.0	165.2	161.3
55°	6086.3	4408.3	537.0	243.9	208.5	200.6	188.8	184.9	173.1	157.4	155.4
57.5°	6292.8	4508.6	529.2	202.6	188.8	186.9	177.0	171.1	157.4	135.7	131.8
60°	5065.3	3409.0	379.7	179.0	173.1	169.2	161.3	157.4	139.7	116.1	114.1
62.5°	3200.5	1961.2	242.0	157.4	151.5	145.6	135.7	131.8	116.1	92.5	86.6
65°	1363.2	812.4	163.3	139.7	129.8	120.0	112.1	106.2	92.5	68.8	66.9
67.5°	354.1	289.2	135.7	122.0	108.2	94.4	88.5	78.7	62.9	47.2	45.2
70°	159.3	145.6	114.1	102.3	86.6	72.8	64.9	55.1	41.3	31.5	29.5
72.5°	94.4	92.5	86.6	76.7	64.9	55.1	47.2	37.4	27.5	17.7	17.7
75°	59.0	57.0	59.0	53.1	45.2	41.3	35.4	25.6	15.7	7.9	7.9
77.5°	35.4	35.4	35.4	33.4	31.5	31.5	25.6	15.7	7.9	2.0	2.0
80°	27.5	27.5	29.5	27.5	27.5	27.5	21.6	11.8	3.9	0.0	0.0
82.5°	27.5	29.5	33.4	31.5	27.5	23.6	19.7	11.8	3.9	0.0	0.0
85°	7.9	5.9	9.8	13.8	19.7	17.7	13.8	9.8	3.9	0.0	0.0
87.5°	3.9	3.9	3.9	3.9	2.0	2.0	2.0	2.0	2.0	0.0	0.0
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)