

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: P528205

Luminaire Tested: **GALN-SA3B-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528205
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-SA3B-735-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA 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: 9236 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

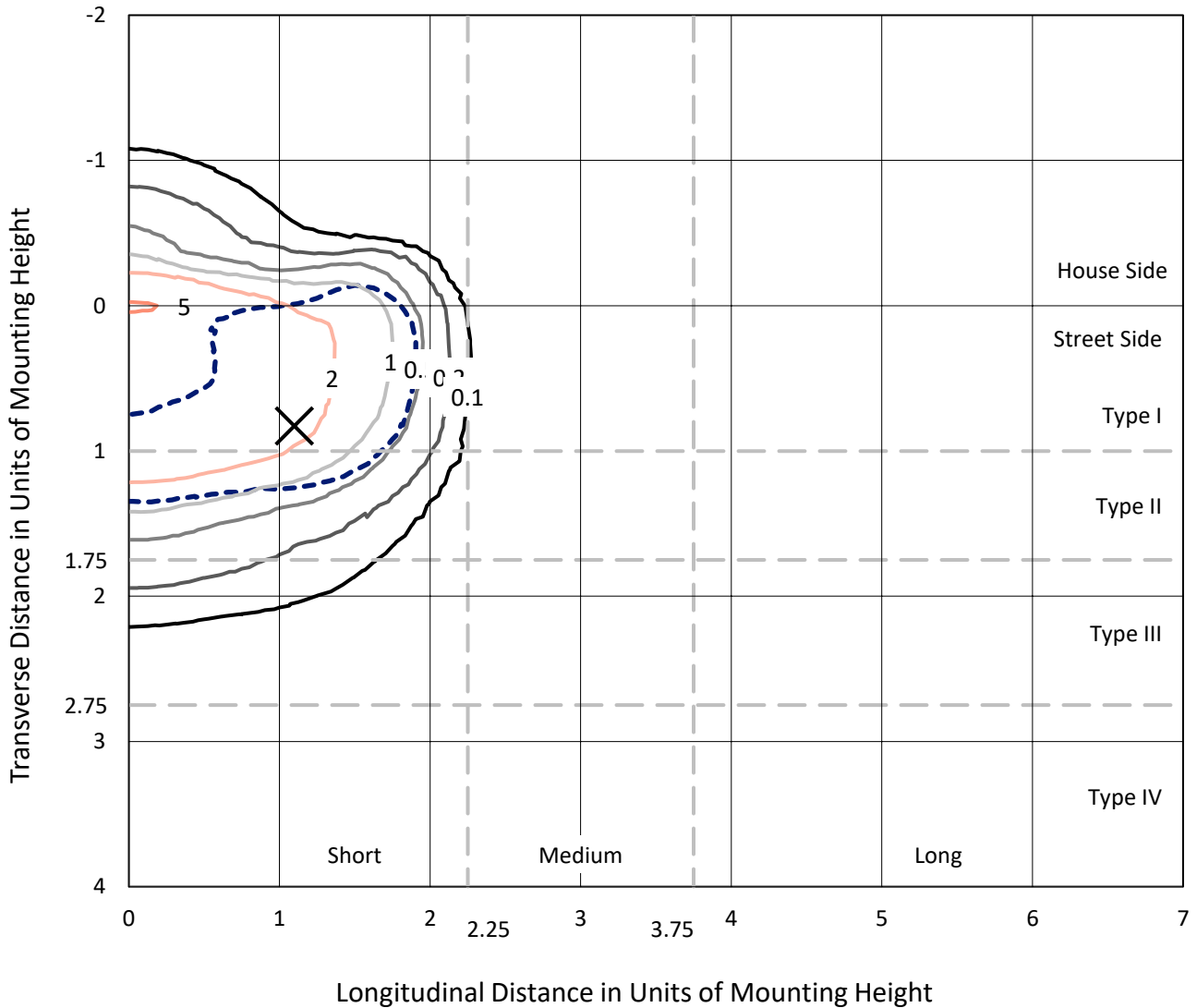
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

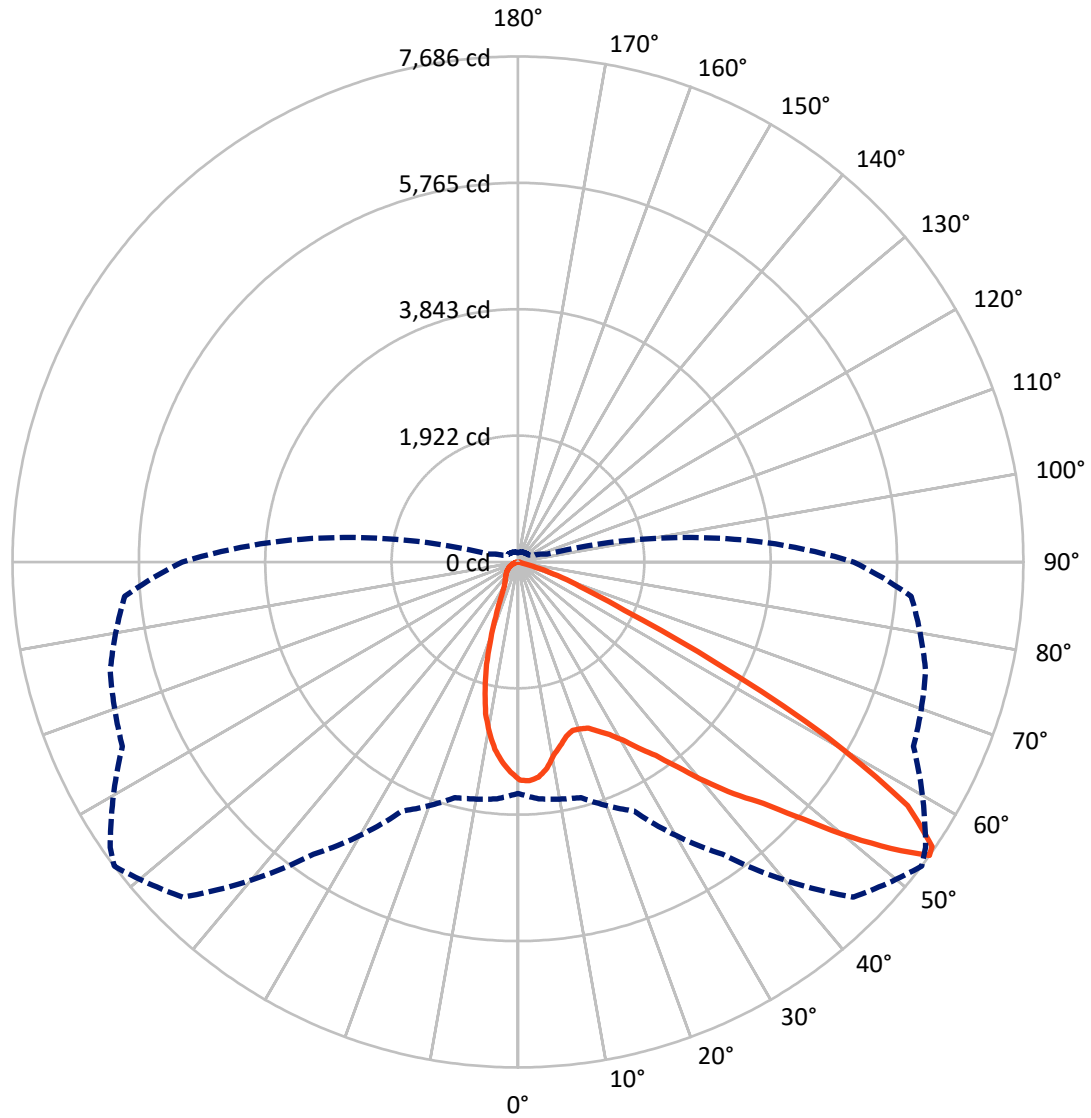
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	1528.1	0.0	1528.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	7707.9	0.0	7707.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	9236.0	0.0	9236.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.6	3.1
10°-20°	652.6	7.1
20°-30°	927.4	10.0
30°-40°	1431.3	15.5
40°-50°	2244.1	24.3
50°-60°	2606.8	28.2
60°-70°	985.0	10.7
70°-80°	93.7	1.0
80°-90°	10.5	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°	9236.0	100.0
0°-180°	9236.0	100.0

Coefficient of Utilization

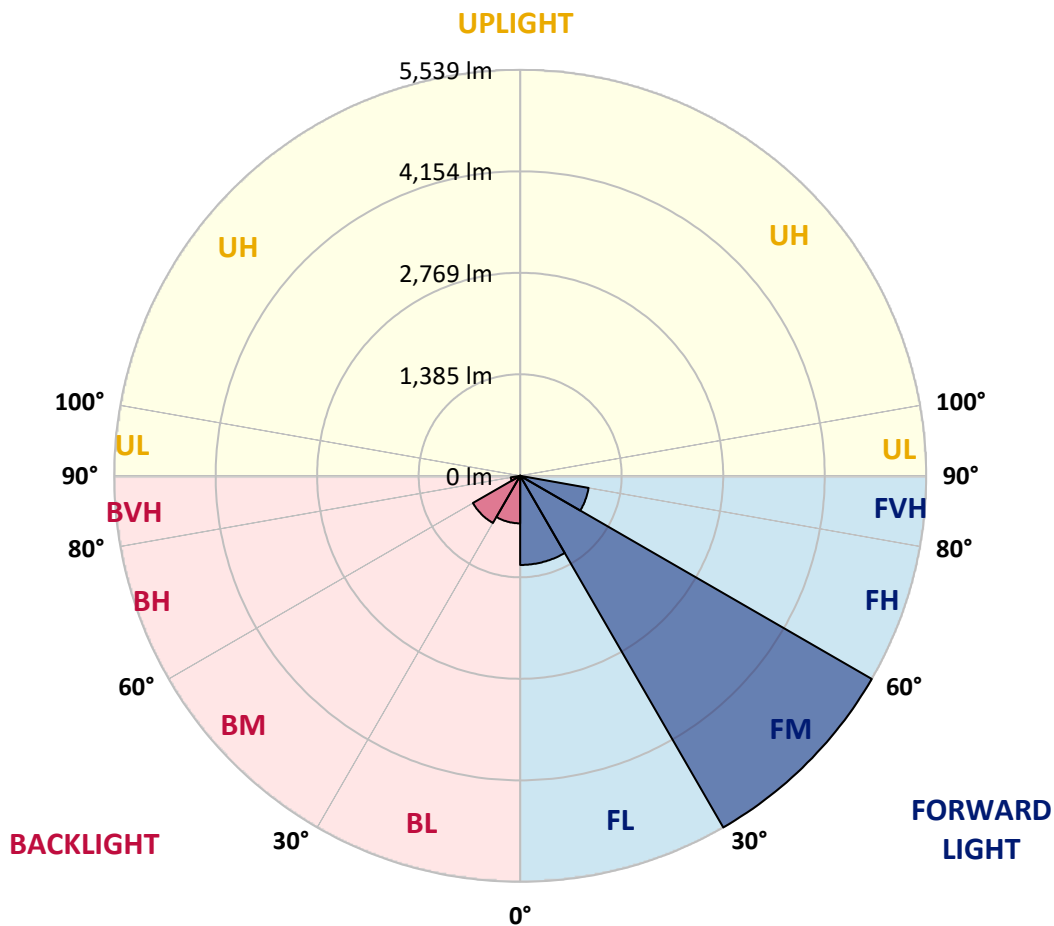


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1216.1	13.2			
FM (30°-60°)	5538.5	60.0			
FH (60°-80°)	947.8	10.3			G1/1800
FVH (80°-90°)	5.4	0.1			G0/10
BL (0°-30°)	648.5	7.0	B2/1000		
BM (30°-60°)	743.6	8.1	B1/1000		
BH (60°-80°)	130.9	1.4	B1/500		G1/500
BVH (80°-90°)	5.1	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°	3317.4	3317.4	3317.4	3317.4	3317.4	3317.4	3317.4	3317.4	3317.4	3317.4	3317.4
2.5°	3300.2	3271.0	3300.2	3303.7	3324.3	3343.2	3331.2	3358.7	3343.2	3326.0	3320.9
5°	3033.5	3073.1	3074.8	3136.7	3123.0	3236.5	3286.4	3272.7	3357.0	3351.8	3339.8
7.5°	2794.3	2778.9	2799.5	2871.8	2963.0	3093.7	3166.0	3164.3	3284.7	3370.8	3362.2
10°	2572.4	2570.7	2613.7	2670.5	2747.9	2885.5	2985.3	3035.2	3222.8	3353.5	3372.5
12.5°	2422.7	2415.8	2462.3	2508.7	2630.9	2737.6	2864.9	2889.0	3104.1	3293.3	3324.3
15°	2324.6	2340.1	2343.5	2433.0	2510.4	2651.5	2751.3	2801.2	3049.0	3245.1	3363.9
17.5°	2307.4	2328.0	2329.8	2403.7	2486.3	2605.1	2692.8	2759.9	3002.5	3269.2	3365.6
20°	2341.8	2329.8	2340.1	2386.5	2467.4	2581.0	2708.3	2730.7	2987.1	3281.3	3384.5
22.5°	2439.9	2436.4	2410.6	2448.5	2505.3	2624.0	2744.4	2778.9	3031.8	3343.2	3400.0
25°	2548.3	2567.2	2543.1	2538.0	2577.5	2694.5	2854.6	2899.3	3181.5	3455.1	3448.2
27.5°	2751.3	2732.4	2732.4	2708.3	2698.0	2754.8	2973.3	3047.3	3348.4	3599.6	3503.2
30°	2945.8	2966.4	2950.9	2959.5	2890.7	2885.5	3141.9	3233.1	3644.3	3819.8	3620.3
32.5°	3253.8	3226.2	3252.0	3229.7	3138.5	3045.6	3370.8	3465.4	4002.2	4072.8	3795.8
35°	3510.1	3498.1	3608.2	3604.8	3456.8	3365.6	3613.4	3754.5	4251.7	4375.6	4002.2
37.5°	3874.9	3852.5	3978.1	4038.4	3905.9	3769.9	3960.9	4124.4	4484.0	4618.2	4213.9
40°	4250.0	4306.8	4475.4	4575.2	4434.1	4253.4	4385.9	4435.8	4638.9	4776.5	4358.4
42.5°	4724.9	4807.5	4979.6	5065.6	5053.6	4857.4	4817.8	4816.1	4750.7	4731.8	4465.1
45°	5180.9	5149.9	5414.9	5602.4	5753.9	5697.1	5234.2	5182.6	4927.9	4798.9	4492.6
47.5°	5380.5	5370.2	5550.8	5884.6	6400.8	6471.4	5839.9	5640.3	5227.3	5081.1	4642.3
50°	5122.4	5175.7	5354.7	5724.6	6516.1	7054.7	6583.2	6314.8	5576.6	5425.2	4996.8
52.5°	4279.3	4315.4	4485.7	4955.5	6123.8	7398.8	7295.6	7140.7	6218.4	5967.2	5614.5
54°	3518.7	3615.1	3708.0	4179.5	5425.2	7207.8	7686.1	7567.4	6636.6	6418.0	6003.4
55°	3064.5	3121.3	3188.4	3658.1	4941.7	6884.3	7641.4	7651.7	6917.0	6559.1	6264.9
57.5°	2238.6	2278.1	2209.3	2417.5	3393.1	5590.4	6989.3	7268.0	7295.6	6770.8	6424.9
60°	1710.3	1727.5	1650.1	1682.8	2109.5	3837.1	5406.3	5741.8	6581.5	5917.3	5442.4
62.5°	1326.6	1330.1	1328.3	1385.1	1454.0	2257.5	3381.1	3678.8	4537.4	4201.8	3696.0
65°	977.3	961.8	989.4	1161.4	1240.6	1419.5	1780.9	1997.7	2465.7	2082.0	1488.4
67.5°	633.2	638.4	665.9	863.8	1063.4	1089.2	1096.1	1078.8	1080.6	595.3	373.4
70°	380.3	388.9	380.3	488.7	760.5	781.2	714.1	696.9	543.7	141.1	139.4
72.5°	225.4	213.4	191.0	209.9	316.6	378.5	340.7	339.0	213.4	82.6	82.6
75°	94.6	86.0	70.5	63.7	84.3	80.9	80.9	72.3	56.8	55.1	51.6
77.5°	18.9	18.9	13.8	15.5	20.6	24.1	29.3	29.3	34.4	34.4	32.7
80°	0.0	1.7	5.2	10.3	15.5	22.4	25.8	25.8	29.3	29.3	24.1
82.5°	0.0	1.7	5.2	10.3	13.8	20.6	25.8	25.8	29.3	31.0	25.8
85°	0.0	1.7	5.2	8.6	13.8	17.2	17.2	15.5	12.0	10.3	6.9
87.5°	0.0	0.0	1.7	3.4	1.7	3.4	3.4	3.4	3.4	3.4	3.4
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°	3317.4	3317.4	3317.4	3317.4	3317.4	3317.4	3317.4	3317.4	3317.4	3317.4	3317.4
2.5°	3332.9	3331.2	3289.9	3222.8	3207.3	3150.5	3143.6	3109.2	3128.1	3064.5	3057.6
5°	3305.4	3284.7	3234.8	3191.8	3066.2	2976.7	2906.2	2820.1	2770.2	2778.9	2746.2
7.5°	3344.9	3291.6	3203.9	3054.2	2901.0	2744.4	2660.1	2484.6	2421.0	2326.3	2312.6
10°	3303.7	3264.1	3128.1	2880.4	2668.7	2443.3	2245.4	2051.0	1903.0	1839.4	1825.6
12.5°	3300.2	3231.4	3004.3	2729.0	2422.7	2099.2	1811.8	1569.2	1423.0	1340.4	1321.5
15°	3246.9	3164.3	2864.9	2494.9	2071.7	1669.0	1355.9	1121.9	1010.0	961.8	975.6
17.5°	3252.0	3128.1	2725.5	2247.2	1725.8	1225.1	925.7	805.3	776.0	788.1	788.1
20°	3246.9	3047.3	2556.9	1961.5	1321.5	850.0	679.7	636.6	655.6	693.4	684.8
22.5°	3219.3	3009.4	2402.0	1660.4	972.2	629.8	545.4	547.2	576.4	622.9	633.2
25°	3240.0	2925.1	2205.9	1355.9	708.9	502.4	473.2	485.2	516.2	550.6	557.5
27.5°	3224.5	2864.9	2001.1	1053.0	517.9	431.9	430.2	443.9	457.7	483.5	483.5
30°	3241.7	2809.8	1799.8	782.9	426.7	395.7	388.9	399.2	413.0	418.1	416.4
32.5°	3305.4	2768.5	1567.5	585.0	376.8	361.3	361.3	361.3	359.6	366.5	368.2
35°	3444.7	2775.4	1362.8	452.5	344.1	332.1	326.9	320.0	316.6	320.0	321.8
37.5°	3596.2	2772.0	1151.1	385.4	320.0	309.7	297.7	287.3	285.6	289.1	283.9
40°	3663.3	2804.7	955.0	345.9	297.7	285.6	266.7	258.1	259.8	263.3	259.8
42.5°	3754.5	2815.0	827.6	314.9	277.0	258.1	246.1	235.7	234.0	239.2	237.4
45°	3752.7	2756.5	693.4	297.7	258.1	237.4	222.0	213.4	213.4	216.8	218.5
47.5°	3862.9	2747.9	595.3	282.2	244.3	223.7	204.8	197.9	196.2	196.2	192.7
50°	4119.2	2868.3	519.6	265.0	227.1	208.2	192.7	184.1	177.2	173.8	172.1
52.5°	4619.9	3243.4	461.1	244.3	208.2	192.7	178.9	172.1	163.5	154.9	153.1
54°	5105.2	3630.6	457.7	227.1	192.7	182.4	170.3	166.9	156.6	144.5	141.1
55°	5323.7	3856.0	469.7	213.4	182.4	175.5	165.2	161.7	151.4	137.7	135.9
57.5°	5504.4	3943.7	462.9	177.2	165.2	163.5	154.9	149.7	137.7	118.7	115.3
60°	4430.7	2981.9	332.1	156.6	151.4	148.0	141.1	137.7	122.2	101.5	99.8
62.5°	2799.5	1715.5	211.6	137.7	132.5	127.3	118.7	115.3	101.5	80.9	75.7
65°	1192.4	710.6	142.8	122.2	113.6	105.0	98.1	92.9	80.9	60.2	58.5
67.5°	309.7	252.9	118.7	106.7	94.6	82.6	77.4	68.8	55.1	41.3	39.6
70°	139.4	127.3	99.8	89.5	75.7	63.7	56.8	48.2	36.1	27.5	25.8
72.5°	82.6	80.9	75.7	67.1	56.8	48.2	41.3	32.7	24.1	15.5	15.5
75°	51.6	49.9	51.6	46.5	39.6	36.1	31.0	22.4	13.8	6.9	6.9
77.5°	31.0	31.0	31.0	29.3	27.5	27.5	22.4	13.8	6.9	1.7	1.7
80°	24.1	24.1	25.8	24.1	24.1	24.1	18.9	10.3	3.4	0.0	0.0
82.5°	24.1	25.8	29.3	27.5	24.1	20.6	17.2	10.3	3.4	0.0	0.0
85°	6.9	5.2	8.6	12.0	17.2	15.5	12.0	8.6	3.4	0.0	0.0
87.5°	3.4	3.4	3.4	3.4	1.7	1.7	1.7	1.7	1.7	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)