

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: P529245

Luminaire Tested: **GALN-SA4B-827-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529245
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-SA4B-827-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 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: 9658 lumens
Efficiency: N/A
Efficacy: 58.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

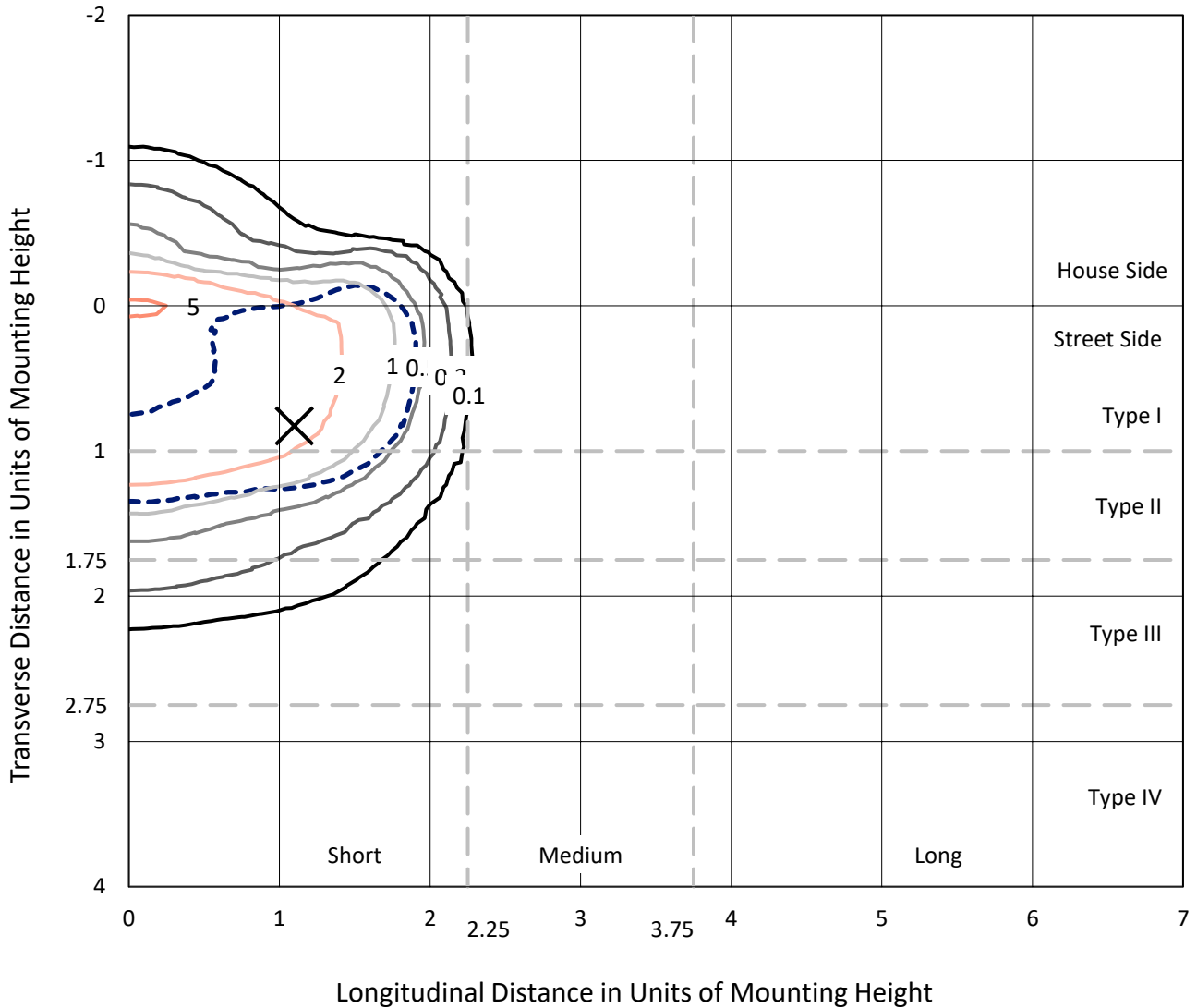
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

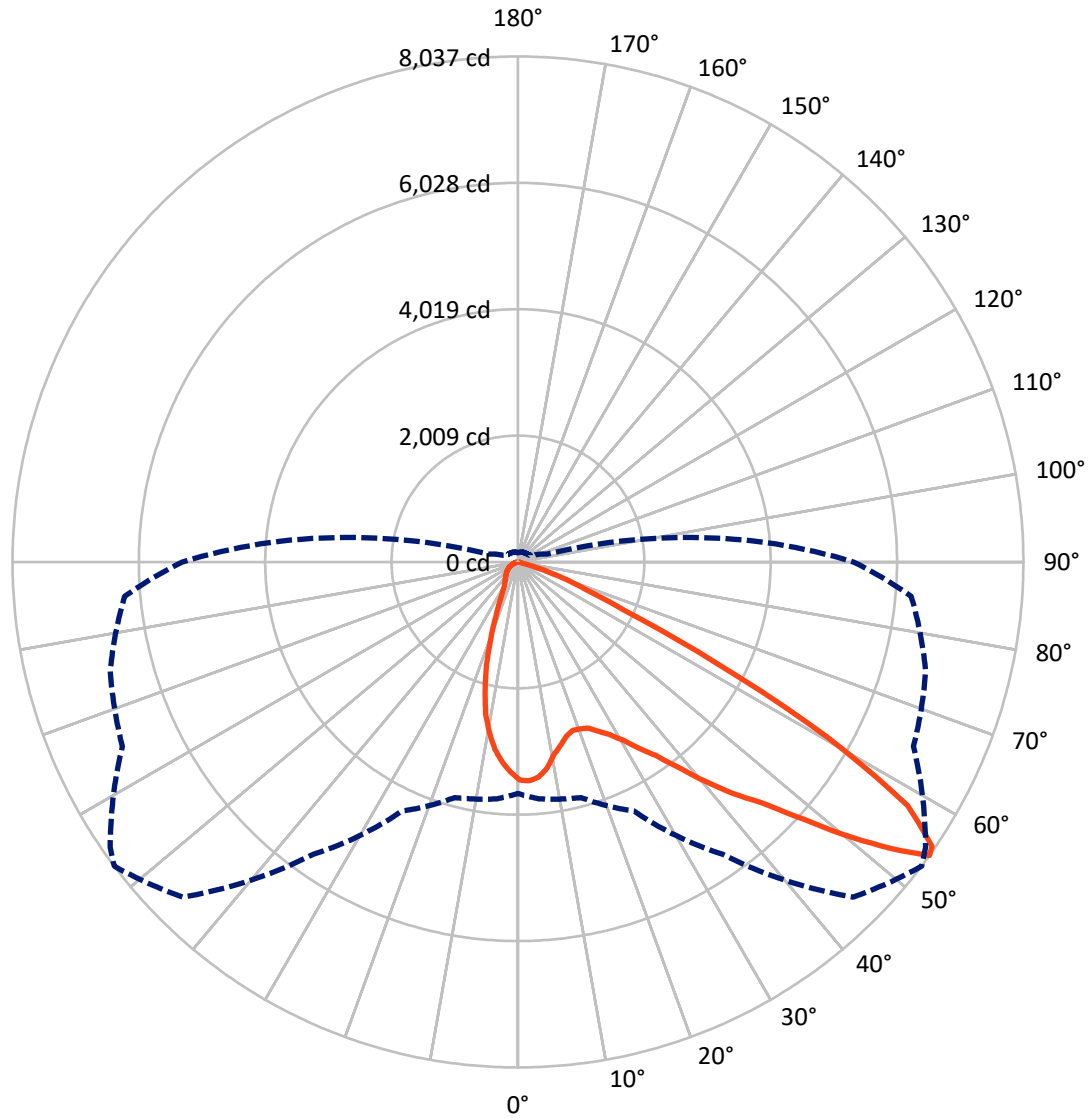
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	1597.9	0.0	1597.9
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	8060.1	0.0	8060.1
	% Fixture	83.5	0.0	83.5
Total	Lumens	9658.0	0.0	9658.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.6	3.1
10°-20°	682.4	7.1
20°-30°	969.8	10.0
30°-40°	1496.7	15.5
40°-50°	2346.6	24.3
50°-60°	2725.9	28.2
60°-70°	1030.0	10.7
70°-80°	98.0	1.0
80°-90°	11.0	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°	9658.0	100.0
0°-180°	9658.0	100.0

Coefficient of Utilization

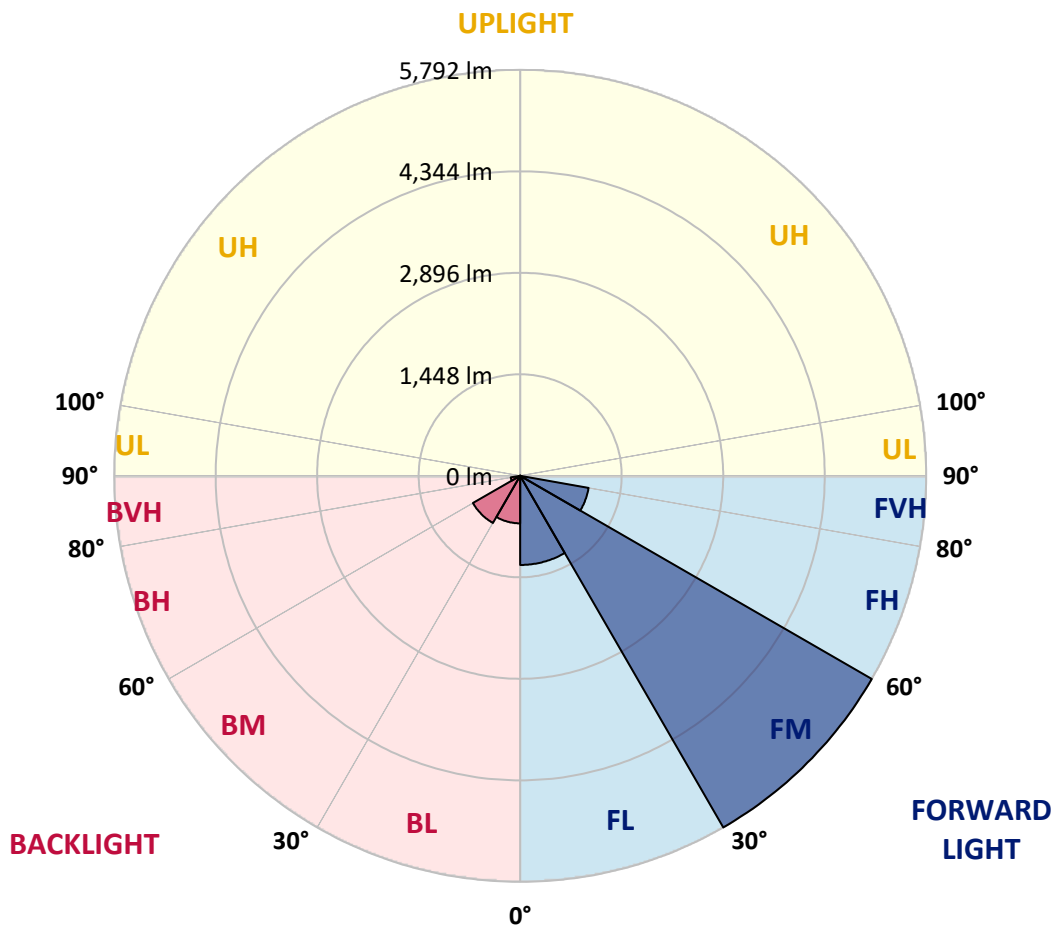


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1271.7	13.2			
FM (30°-60°)	5791.6	60.0			
FH (60°-80°)	991.1	10.3			G1/1800
FVH (80°-90°)	5.7	0.1			G0/10
BL (0°-30°)	678.1	7.0	B2/1000		
BM (30°-60°)	777.6	8.1	B1/1000		
BH (60°-80°)	136.9	1.4	B1/500		G1/500
BVH (80°-90°)	5.3	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°	3469.0	3469.0	3469.0	3469.0	3469.0	3469.0	3469.0	3469.0	3469.0	3469.0	3469.0
2.5°	3451.0	3420.4	3451.0	3454.6	3476.2	3496.0	3483.4	3512.2	3496.0	3478.0	3472.6
5°	3172.1	3213.5	3215.3	3280.1	3265.7	3384.4	3436.6	3422.2	3510.4	3505.0	3492.4
7.5°	2922.0	2905.8	2927.4	3003.0	3098.3	3235.1	3310.7	3308.9	3434.8	3524.8	3515.8
10°	2689.9	2688.1	2733.1	2792.5	2873.4	3017.4	3121.7	3173.9	3370.0	3506.8	3526.6
12.5°	2533.4	2526.2	2574.8	2623.3	2751.1	2862.6	2995.8	3021.0	3245.9	3443.8	3476.2
15°	2430.8	2447.0	2450.6	2544.2	2625.1	2772.7	2877.0	2929.2	3188.3	3393.4	3517.6
17.5°	2412.8	2434.4	2436.2	2513.6	2599.9	2724.1	2815.9	2886.0	3139.7	3418.6	3519.4
20°	2448.8	2436.2	2447.0	2495.6	2580.2	2698.9	2832.0	2855.4	3123.5	3431.2	3539.2
22.5°	2551.4	2547.8	2520.8	2560.4	2619.7	2743.9	2869.8	2905.8	3170.3	3496.0	3555.4
25°	2664.7	2684.5	2659.3	2653.9	2695.3	2817.7	2985.0	3031.8	3326.8	3612.9	3605.7
27.5°	2877.0	2857.2	2857.2	2832.0	2821.3	2880.6	3109.1	3186.5	3501.4	3764.1	3663.3
30°	3080.3	3101.9	3085.7	3094.7	3022.8	3017.4	3285.5	3380.8	3810.9	3994.4	3785.7
32.5°	3402.4	3373.6	3400.6	3377.2	3281.9	3184.7	3524.8	3623.7	4185.1	4258.9	3969.2
35°	3670.5	3657.9	3773.1	3769.5	3614.7	3519.4	3778.5	3926.0	4446.0	4575.5	4185.1
37.5°	4052.0	4028.6	4159.9	4222.9	4084.3	3942.2	4141.9	4312.8	4688.9	4829.2	4406.4
40°	4444.2	4503.6	4679.9	4784.3	4636.7	4447.8	4586.3	4638.5	4850.8	4994.8	4557.5
42.5°	4940.8	5027.2	5207.1	5297.0	5284.5	5079.3	5038.0	5036.2	4967.8	4948.0	4669.1
45°	5417.6	5385.2	5662.3	5858.4	6016.8	5957.4	5473.4	5419.4	5153.1	5018.2	4697.9
47.5°	5626.3	5615.5	5804.4	6153.5	6693.3	6767.1	6106.7	5898.0	5466.2	5313.2	4854.4
50°	5356.4	5412.2	5599.3	5986.2	6813.8	7377.0	6884.0	6603.3	5831.4	5673.1	5225.1
52.5°	4474.8	4512.6	4690.7	5181.9	6403.6	7736.9	7628.9	7467.0	6502.6	6239.9	5871.0
54°	3679.5	3780.3	3877.4	4370.4	5673.1	7537.1	8037.3	7913.2	6939.8	6711.3	6277.6
55°	3204.5	3263.9	3334.0	3825.2	5167.5	7198.9	7990.6	8001.3	7233.1	6858.8	6551.1
57.5°	2340.8	2382.2	2310.3	2528.0	3548.2	5845.8	7308.6	7600.1	7628.9	7080.1	6718.5
60°	1788.5	1806.5	1725.5	1759.7	2205.9	4012.4	5653.3	6004.2	6882.2	6187.7	5691.1
62.5°	1387.2	1390.8	1389.0	1448.4	1520.4	2360.6	3535.6	3846.8	4744.7	4393.8	3864.8
65°	1022.0	1005.8	1034.6	1214.5	1297.3	1484.4	1862.2	2089.0	2578.4	2177.1	1556.4
67.5°	662.1	667.5	696.3	903.2	1111.9	1138.9	1146.1	1128.1	1129.9	622.5	390.4
70°	397.6	406.6	397.6	511.0	795.3	816.9	746.7	728.7	568.6	147.5	145.7
72.5°	235.7	223.1	199.7	219.5	331.1	395.8	356.3	354.5	223.1	86.4	86.4
75°	99.0	90.0	73.8	66.6	88.2	84.6	84.6	75.6	59.4	57.6	54.0
77.5°	19.8	19.8	14.4	16.2	21.6	25.2	30.6	30.6	36.0	36.0	34.2
80°	0.0	1.8	5.4	10.8	16.2	23.4	27.0	27.0	30.6	30.6	25.2
82.5°	0.0	1.8	5.4	10.8	14.4	21.6	27.0	27.0	30.6	32.4	27.0
85°	0.0	1.8	5.4	9.0	14.4	18.0	18.0	16.2	12.6	10.8	7.2
87.5°	0.0	0.0	1.8	3.6	1.8	3.6	3.6	3.6	3.6	3.6	3.6
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°	3469.0	3469.0	3469.0	3469.0	3469.0	3469.0	3469.0	3469.0	3469.0	3469.0	3469.0
2.5°	3485.2	3483.4	3440.2	3370.0	3353.8	3294.5	3287.3	3251.3	3271.1	3204.5	3197.3
5°	3456.4	3434.8	3382.6	3337.6	3206.3	3112.7	3039.0	2949.0	2896.8	2905.8	2871.6
7.5°	3497.8	3442.0	3350.2	3193.7	3033.6	2869.8	2781.7	2598.1	2531.6	2432.6	2418.2
10°	3454.6	3413.2	3271.1	3012.0	2790.7	2555.0	2348.0	2144.7	1990.0	1923.4	1909.0
12.5°	3451.0	3379.0	3141.5	2853.6	2533.4	2195.1	1894.6	1640.9	1488.0	1401.6	1381.8
15°	3395.2	3308.9	2995.8	2608.9	2166.3	1745.3	1417.8	1173.1	1056.2	1005.8	1020.2
17.5°	3400.6	3271.1	2850.0	2349.8	1804.7	1281.1	968.0	842.1	811.5	824.1	824.1
20°	3395.2	3186.5	2673.7	2051.2	1381.8	888.8	710.7	665.7	685.5	725.1	716.1
22.5°	3366.4	3146.9	2511.8	1736.3	1016.6	658.5	570.4	572.2	602.8	651.3	662.1
25°	3388.0	3058.8	2306.7	1417.8	741.3	525.4	494.8	507.4	539.8	575.8	583.0
27.5°	3371.8	2995.8	2092.5	1101.2	541.6	451.6	449.8	464.2	478.6	505.6	505.6
30°	3389.8	2938.2	1882.0	818.7	446.2	413.8	406.6	417.4	431.8	437.2	435.4
32.5°	3456.4	2895.0	1639.1	611.8	394.0	377.8	377.8	377.8	376.0	383.2	385.0
35°	3602.1	2902.2	1425.0	473.2	359.9	347.3	341.9	334.7	331.1	334.7	336.5
37.5°	3760.5	2898.6	1203.7	403.0	334.7	323.9	311.3	300.5	298.7	302.3	296.9
40°	3830.6	2932.8	998.6	361.7	311.3	298.7	278.9	269.9	271.7	275.3	271.7
42.5°	3926.0	2943.6	865.4	329.3	289.7	269.9	257.3	246.5	244.7	250.1	248.3
45°	3924.2	2882.4	725.1	311.3	269.9	248.3	232.1	223.1	223.1	226.7	228.5
47.5°	4039.4	2873.4	622.5	295.1	255.5	233.9	214.1	206.9	205.1	205.1	201.5
50°	4307.5	2999.4	543.4	277.1	237.5	217.7	201.5	192.5	185.3	181.7	179.9
52.5°	4831.0	3391.6	482.2	255.5	217.7	201.5	187.1	179.9	170.9	161.9	160.1
54°	5338.4	3796.5	478.6	237.5	201.5	190.7	178.1	174.5	163.7	151.1	147.5
55°	5566.9	4032.2	491.2	223.1	190.7	183.5	172.7	169.1	158.3	143.9	142.1
57.5°	5755.9	4123.9	484.0	185.3	172.7	170.9	161.9	156.5	143.9	124.1	120.6
60°	4633.1	3118.1	347.3	163.7	158.3	154.7	147.5	143.9	127.7	106.2	104.4
62.5°	2927.4	1793.9	221.3	143.9	138.5	133.1	124.1	120.6	106.2	84.6	79.2
65°	1246.9	743.1	149.3	127.7	118.8	109.8	102.6	97.2	84.6	63.0	61.2
67.5°	323.9	264.5	124.1	111.6	99.0	86.4	81.0	72.0	57.6	43.2	41.4
70°	145.7	133.1	104.4	93.6	79.2	66.6	59.4	50.4	37.8	28.8	27.0
72.5°	86.4	84.6	79.2	70.2	59.4	50.4	43.2	34.2	25.2	16.2	16.2
75°	54.0	52.2	54.0	48.6	41.4	37.8	32.4	23.4	14.4	7.2	7.2
77.5°	32.4	32.4	32.4	30.6	28.8	28.8	23.4	14.4	7.2	1.8	1.8
80°	25.2	25.2	27.0	25.2	25.2	25.2	19.8	10.8	3.6	0.0	0.0
82.5°	25.2	27.0	30.6	28.8	25.2	21.6	18.0	10.8	3.6	0.0	0.0
85°	7.2	5.4	9.0	12.6	18.0	16.2	12.6	9.0	3.6	0.0	0.0
87.5°	3.6	3.6	3.6	3.6	1.8	1.8	1.8	1.8	1.8	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)