

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: P527973

Luminaire Tested: **GALN-SA3A-735-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527973
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-735-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7437 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

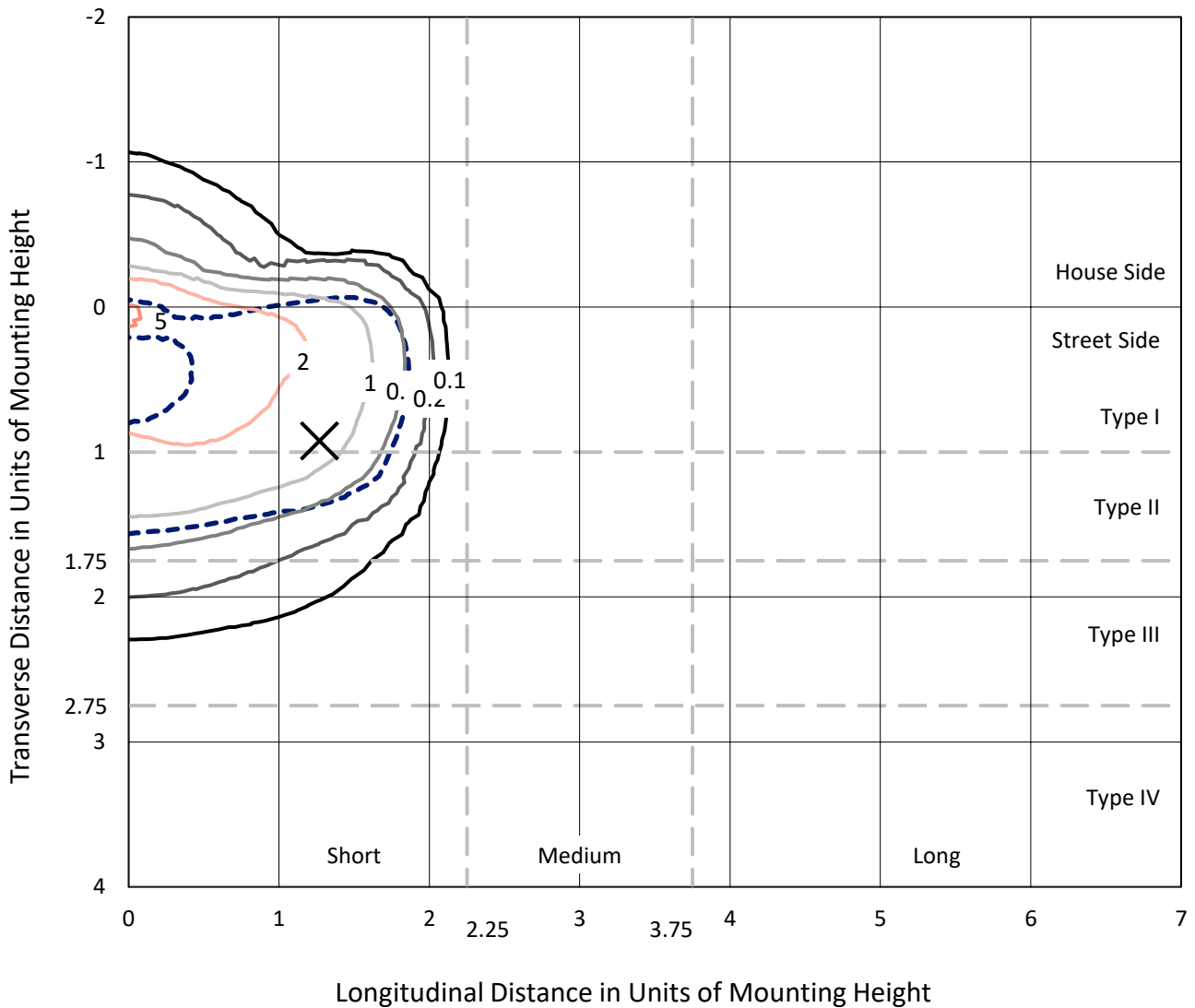
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

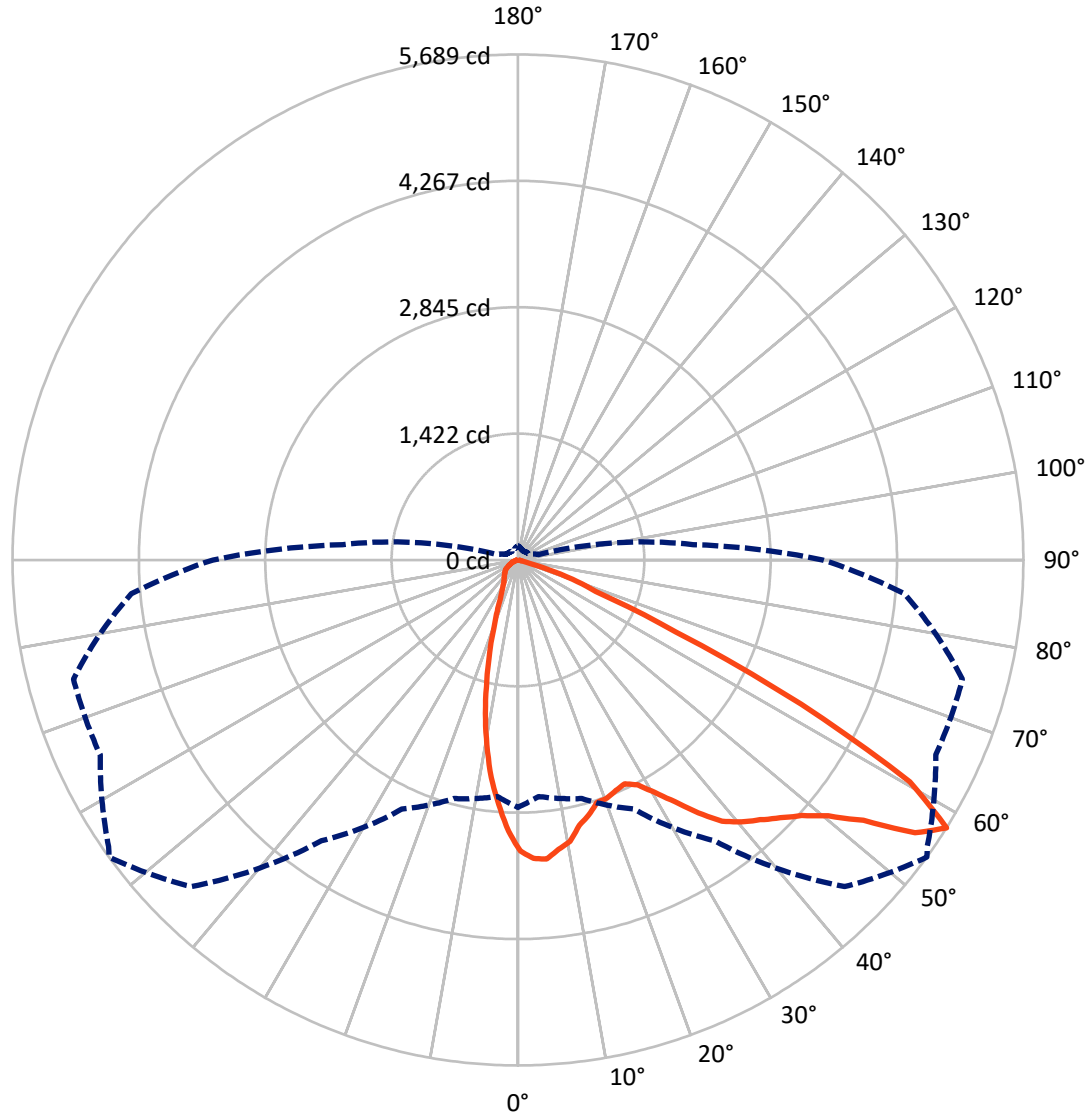
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	1051.0	0.0	1051.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	6386.0	0.0	6386.0
	% Fixture	85.9	0.0	85.9
Total	Lumens	7437.0	0.0	7437.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.2	3.7
10°-20°	585.3	7.9
20°-30°	775.6	10.4
30°-40°	1127.2	15.2
40°-50°	1671.5	22.5
50°-60°	2090.2	28.1
60°-70°	824.5	11.1
70°-80°	82.1	1.1
80°-90°	6.4	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°	7437.0	100.0
0°-180°	7437.0	100.0

Coefficient of Utilization



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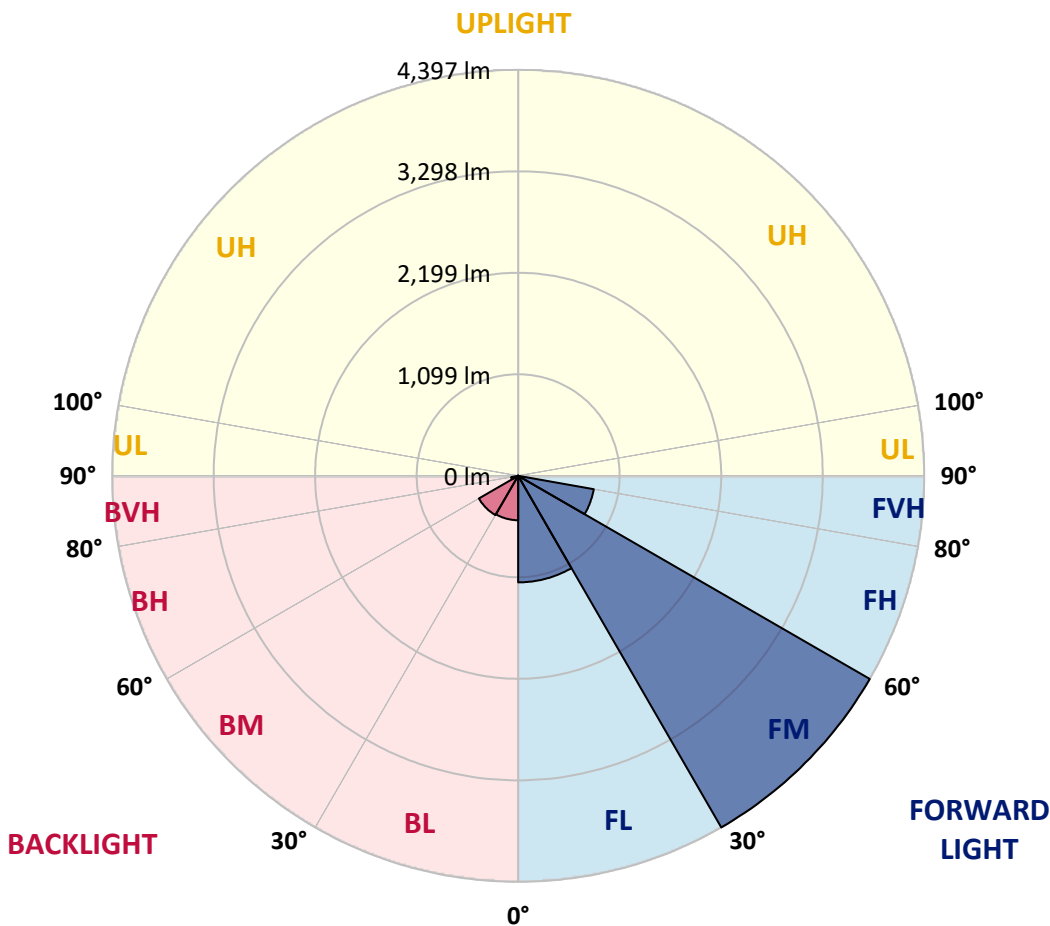
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1154.4	15.5			
FM (30°-60°)	4397.5	59.1			
FH (60°-80°)	831.2	11.2			G1/1800
FVH (80°-90°)	2.9	0.0			G0/10
BL (0°-30°)	480.7	6.5	B1/500		
BM (30°-60°)	491.5	6.6	B1/1000		
BH (60°-80°)	75.4	1.0	B0/110		G0/110
BVH (80°-90°)	3.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3276.1	3276.1	3276.1	3276.1	3276.1	3276.1	3276.1	3276.1	3276.1	3276.1	3276.1
2.5°	3466.9	3431.0	3433.7	3421.3	3404.7	3417.2	3363.2	3375.7	3374.3	3301.0	3252.6
5°	3379.8	3418.5	3378.4	3411.6	3379.8	3414.4	3381.2	3356.3	3316.2	3262.3	3172.4
7.5°	3231.8	3194.5	3205.6	3247.1	3254.0	3331.4	3289.9	3321.7	3305.1	3198.7	3075.6
10°	2934.5	2926.2	2981.5	3036.9	3104.6	3187.6	3219.4	3201.4	3189.0	3148.9	2984.3
12.5°	2706.3	2729.9	2728.5	2819.7	2934.5	2981.5	3064.5	3061.7	3130.9	3056.2	2898.6
15°	2489.2	2501.7	2559.8	2616.5	2743.7	2877.8	2980.2	2994.0	3077.0	3024.4	2832.2
17.5°	2356.5	2338.5	2384.1	2451.9	2581.9	2757.5	2870.9	2904.1	3017.5	3006.4	2756.1
20°	2225.1	2225.1	2262.4	2342.6	2461.6	2659.3	2861.2	2851.5	3017.5	2985.7	2674.5
22.5°	2180.8	2203.0	2212.6	2273.5	2414.5	2584.6	2819.7	2837.7	3041.0	2976.0	2638.6
25°	2241.7	2212.6	2215.4	2263.8	2396.6	2548.7	2789.3	2829.4	3083.9	3024.4	2609.5
27.5°	2251.4	2280.4	2288.7	2321.9	2410.4	2559.8	2865.4	2947.0	3190.4	3137.8	2617.8
30°	2335.7	2364.8	2363.4	2420.1	2480.9	2649.6	3035.5	3052.1	3410.2	3280.2	2669.0
32.5°	2438.1	2468.5	2478.2	2544.5	2592.9	2814.2	3242.9	3285.8	3621.8	3504.3	2803.1
35°	2565.3	2554.2	2598.5	2664.9	2768.6	3054.8	3496.0	3567.9	3850.0	3794.7	2941.4
37.5°	2724.3	2710.5	2753.4	2861.2	3002.3	3339.7	3729.7	3776.7	4016.0	4064.4	3197.3
40°	2836.3	2841.9	2971.9	3117.1	3266.4	3610.8	3877.7	3923.3	4132.1	4316.0	3390.9
42.5°	3023.0	3057.6	3213.9	3390.9	3547.1	3814.0	3998.0	4042.2	4186.0	4517.9	3652.2
45°	3294.1	3278.9	3451.7	3649.5	3822.3	4025.6	4140.4	4125.2	4217.9	4718.5	3816.8
47.5°	3642.6	3645.3	3760.1	3928.8	4108.6	4209.6	4299.4	4245.5	4284.2	4930.1	4036.7
50°	3880.4	3901.2	3993.8	4166.7	4256.6	4411.5	4526.2	4493.1	4480.6	5057.3	4175.0
52.5°	3941.3	4003.5	4053.3	4269.0	4479.2	4724.0	4870.6	4941.1	4719.8	5100.1	4350.6
55°	3482.2	3537.5	3713.1	4009.0	4563.6	5219.1	5421.0	5422.4	5032.4	5291.0	4473.7
57.5°	2783.8	2671.8	2779.6	3093.6	3858.3	5198.3	5689.3	5624.3	5188.7	5179.0	4367.2
60°	1925.0	1897.3	1904.3	2028.7	2670.4	4134.9	5069.7	5154.1	4777.9	4488.9	3457.3
62.5°	1525.3	1501.8	1471.4	1457.6	1658.1	2576.3	3576.2	3695.1	3341.1	2911.0	2049.5
65°	1194.8	1181.0	1185.1	1240.5	1239.1	1461.7	1955.4	1907.0	1526.7	1128.4	644.4
67.5°	806.2	827.0	843.6	1010.9	1096.6	1017.8	944.5	916.9	496.5	208.8	142.4
70°	453.6	456.4	474.3	632.0	832.5	789.6	651.3	651.3	247.5	76.1	81.6
72.5°	247.5	239.2	222.6	272.4	370.6	376.1	290.4	253.1	73.3	49.8	45.6
75°	120.3	118.9	102.3	84.4	80.2	66.4	51.2	47.0	33.2	31.8	27.7
77.5°	24.9	23.5	12.4	12.4	13.8	15.2	19.4	19.4	23.5	23.5	19.4
80°	0.0	0.0	1.4	5.5	9.7	13.8	16.6	16.6	19.4	19.4	15.2
82.5°	0.0	0.0	1.4	4.1	8.3	12.4	15.2	16.6	19.4	20.7	16.6
85°	0.0	0.0	0.0	2.8	6.9	9.7	8.3	8.3	6.9	5.5	2.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3276.1	3276.1	3276.1	3276.1	3276.1	3276.1	3276.1	3276.1	3276.1	3276.1	3276.1
2.5°	3227.7	3224.9	3161.3	3125.4	3060.4	3003.7	2958.0	2924.8	2924.8	2904.1	2884.7
5°	3136.4	3112.9	2977.4	2890.3	2767.2	2675.9	2613.7	2565.3	2489.2	2510.0	2428.4
7.5°	3023.0	2963.6	2783.8	2651.0	2480.9	2350.9	2218.2	2100.6	1987.2	1936.1	1963.7
10°	2901.3	2797.6	2555.6	2345.4	2133.8	1896.0	1741.1	1553.0	1436.8	1429.9	1399.5
12.5°	2772.7	2655.2	2360.6	2070.2	1792.2	1506.0	1269.5	1093.9	1015.1	927.9	944.5
15°	2675.9	2501.7	2143.5	1793.6	1424.4	1135.4	897.5	762.0	687.3	666.6	659.6
17.5°	2570.8	2384.1	1922.2	1499.1	1117.4	817.3	645.8	580.8	551.8	551.8	547.6
20°	2461.6	2251.4	1702.4	1225.3	838.0	609.9	517.2	496.5	495.1	493.7	493.7
22.5°	2389.7	2099.2	1503.2	973.6	632.0	488.2	449.4	441.1	446.7	463.3	463.3
25°	2313.6	1952.7	1283.3	750.9	489.5	419.0	396.9	402.4	416.3	431.5	425.9
27.5°	2236.2	1857.2	1075.9	589.1	401.0	366.5	358.2	370.6	385.8	399.7	395.5
30°	2218.2	1754.9	879.5	446.7	344.3	319.5	325.0	336.0	351.3	356.8	362.3
32.5°	2245.8	1674.7	720.5	366.5	300.1	293.2	293.2	298.7	308.4	320.8	316.7
35°	2324.7	1629.1	569.8	318.1	275.2	268.3	266.9	272.4	278.0	282.1	278.0
37.5°	2445.0	1593.1	466.0	282.1	258.6	247.5	244.8	243.4	248.9	250.3	253.1
40°	2598.5	1612.5	395.5	260.0	242.0	229.6	221.3	221.3	221.3	225.4	226.8
42.5°	2764.4	1638.7	341.6	247.5	226.8	211.6	203.3	200.5	203.3	208.8	207.4
45°	2938.7	1689.9	307.0	228.2	213.0	193.6	182.5	179.8	186.7	197.8	196.4
47.5°	3101.9	1763.2	280.7	215.7	199.1	181.2	167.3	164.6	177.0	192.2	193.6
50°	3265.0	1890.4	271.0	206.1	189.5	168.7	156.3	153.5	167.3	186.7	190.8
52.5°	3453.1	2027.3	264.1	193.6	178.4	159.0	145.2	142.4	157.7	182.5	183.9
55°	3576.2	2143.5	258.6	171.5	157.7	143.8	132.8	131.4	148.0	170.1	175.6
57.5°	3432.4	1981.7	239.2	149.4	134.1	127.2	117.5	117.5	131.4	152.1	156.3
60°	2602.6	1304.1	170.1	120.3	113.4	109.2	105.1	105.1	116.2	131.4	132.8
62.5°	1524.0	702.5	109.2	96.8	96.8	92.7	85.7	85.7	96.8	105.1	106.5
65°	452.2	225.4	88.5	83.0	81.6	74.7	67.8	66.4	74.7	78.8	77.4
67.5°	130.0	103.7	73.3	69.1	67.8	56.7	52.6	51.2	52.6	49.8	48.4
70°	77.4	70.5	56.7	58.1	51.2	41.5	37.3	36.0	33.2	29.0	26.3
72.5°	42.9	42.9	41.5	44.3	36.0	27.7	23.5	19.4	15.2	12.4	11.1
75°	26.3	27.7	29.0	30.4	23.5	18.0	15.2	9.7	5.5	2.8	2.8
77.5°	18.0	19.4	20.7	22.1	19.4	16.6	12.4	6.9	1.4	0.0	0.0
80°	13.8	15.2	18.0	19.4	20.7	22.1	16.6	6.9	1.4	0.0	0.0
82.5°	15.2	16.6	20.7	19.4	19.4	19.4	15.2	6.9	1.4	0.0	0.0
85°	2.8	4.1	6.9	6.9	9.7	12.4	9.7	2.8	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)