

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: P529013

Luminaire Tested: **GALN-SA4A-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529013
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-SA4A-827-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 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: 7777 lumens
Efficiency: N/A
Efficacy: 64.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

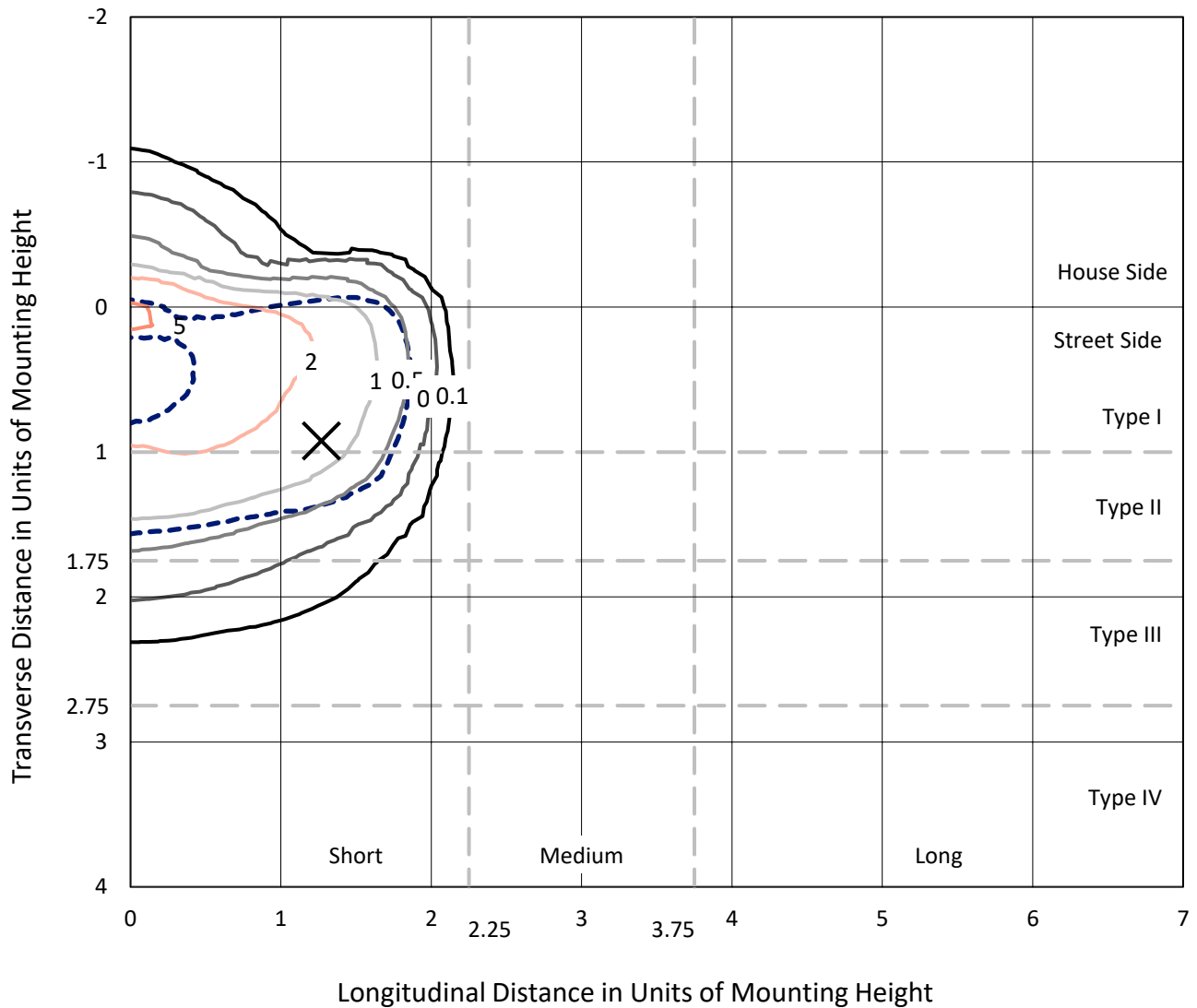
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

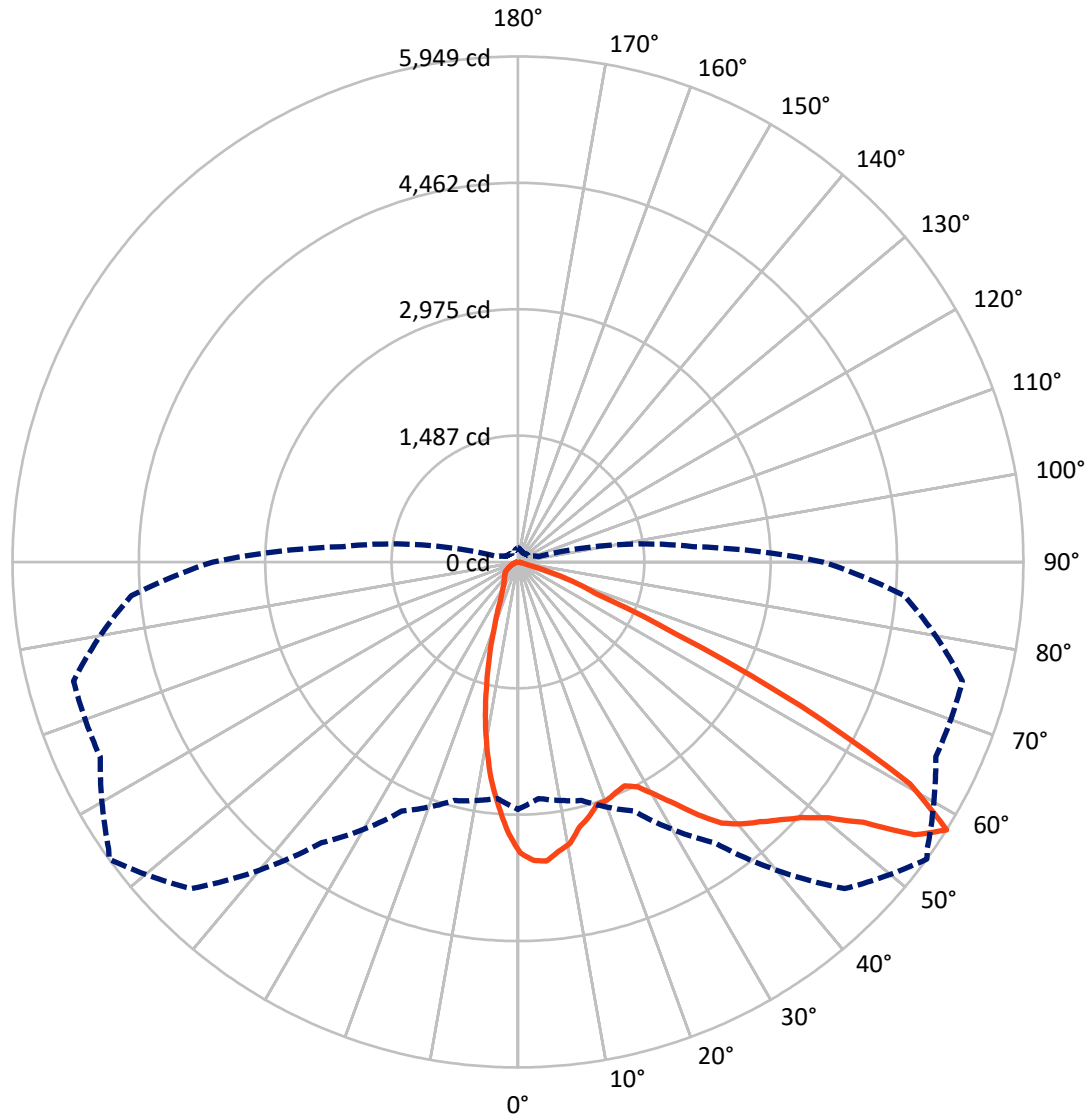
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	1099.0	0.0	1099.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	6678.0	0.0	6678.0
	% Fixture	85.9	0.0	85.9
Total	Lumens	7777.0	0.0	7777.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.7	3.7
10°-20°	612.1	7.9
20°-30°	811.1	10.4
30°-40°	1178.8	15.2
40°-50°	1748.0	22.5
50°-60°	2185.7	28.1
60°-70°	862.2	11.1
70°-80°	85.8	1.1
80°-90°	6.7	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°	7777.0	100.0
0°-180°	7777.0	100.0

Coefficient of Utilization

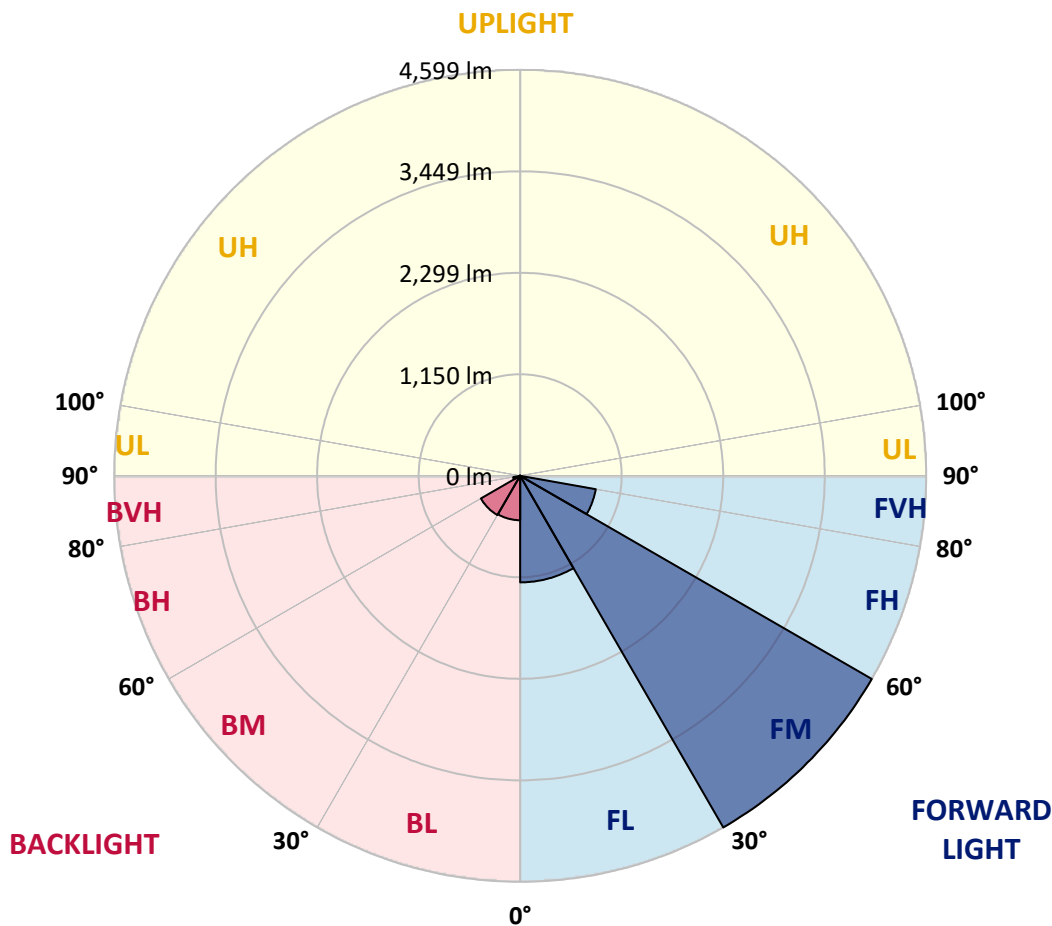


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1207.2	15.5			
FM (30°-60°)	4598.5	59.1			
FH (60°-80°)	869.2	11.2			G1/1800
FVH (80°-90°)	3.0	0.0			G0/10
BL (0°-30°)	502.6	6.5	B2/1000		
BM (30°-60°)	513.9	6.6	B1/1000		
BH (60°-80°)	78.8	1.0	B0/110		G0/110
BVH (80°-90°)	3.6	0.0			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°	54°	55°	65°	75°	85°
0°	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9
2.5°	3625.4	3587.8	3590.7	3577.7	3560.4	3573.4	3517.0	3530.0	3528.5	3451.9	3401.3
5°	3534.3	3574.8	3532.9	3567.6	3534.3	3570.5	3535.8	3509.7	3467.8	3411.4	3317.4
7.5°	3379.6	3340.6	3352.1	3395.5	3402.7	3483.7	3440.3	3473.6	3456.2	3344.9	3216.2
10°	3068.7	3060.0	3117.8	3175.7	3246.6	3333.3	3366.6	3347.8	3334.8	3292.8	3120.7
12.5°	2830.1	2854.7	2853.2	2948.7	3068.7	3117.8	3204.6	3201.7	3274.0	3195.9	3031.1
15°	2603.0	2616.0	2676.8	2736.1	2869.1	3009.4	3116.4	3130.9	3217.6	3162.7	2961.7
17.5°	2464.2	2445.4	2493.1	2564.0	2699.9	2883.6	3002.2	3036.9	3155.4	3143.9	2882.1
20°	2326.8	2326.8	2365.9	2449.7	2574.1	2780.9	2992.0	2981.9	3155.4	3122.2	2796.8
22.5°	2280.5	2303.7	2313.8	2377.4	2524.9	2702.8	2948.7	2967.5	3180.0	3112.1	2759.2
25°	2344.2	2313.8	2316.7	2367.3	2506.1	2665.2	2916.8	2958.8	3224.9	3162.7	2728.8
27.5°	2354.3	2384.7	2393.3	2428.0	2520.6	2676.8	2996.4	3081.7	3336.2	3281.3	2737.5
30°	2442.5	2472.9	2471.4	2530.7	2594.4	2770.8	3174.2	3191.6	3566.1	3430.2	2791.0
32.5°	2549.5	2581.3	2591.5	2660.9	2711.5	2942.9	3391.2	3436.0	3787.4	3664.5	2931.3
35°	2682.6	2671.0	2717.3	2786.7	2895.1	3194.5	3655.8	3731.0	4026.0	3968.2	3075.9
37.5°	2848.9	2834.4	2879.2	2992.0	3139.5	3492.4	3900.2	3949.4	4199.6	4250.2	3343.4
40°	2966.0	2971.8	3107.7	3259.6	3415.8	3775.8	4054.9	4102.7	4321.0	4513.4	3545.9
42.5°	3161.2	3197.4	3360.8	3545.9	3709.3	3988.4	4180.8	4227.0	4377.4	4724.5	3819.2
45°	3444.7	3428.8	3609.5	3816.3	3997.1	4209.7	4329.7	4313.8	4410.7	4934.2	3991.3
47.5°	3809.1	3812.0	3932.0	4108.4	4296.4	4402.0	4496.0	4439.6	4480.1	5155.4	4221.2
50°	4057.8	4079.5	4176.4	4357.2	4451.2	4613.1	4733.2	4698.5	4685.4	5288.5	4365.9
52.5°	4121.5	4186.5	4238.6	4464.2	4684.0	4940.0	5093.3	5167.0	4935.6	5333.3	4549.5
55°	3641.3	3699.2	3882.8	4192.3	4772.2	5457.7	5668.8	5670.3	5262.5	5532.9	4678.2
57.5°	2911.1	2793.9	2906.7	3235.0	4034.7	5436.0	5949.4	5881.4	5425.9	5415.7	4566.9
60°	2013.0	1984.1	1991.3	2121.5	2792.5	4323.9	5301.5	5389.7	4996.4	4694.1	3615.3
62.5°	1595.1	1570.5	1538.7	1524.2	1733.9	2694.1	3739.7	3864.0	3493.8	3044.1	2143.2
65°	1249.5	1235.0	1239.3	1297.2	1295.7	1528.6	2044.8	1994.2	1596.5	1180.0	673.9
67.5°	843.1	864.8	882.1	1057.1	1146.8	1064.3	987.7	958.8	519.2	218.4	149.0
70°	474.3	477.2	496.0	660.9	870.6	825.7	681.1	681.1	258.9	79.5	85.3
72.5°	258.9	250.2	232.8	284.9	387.6	393.3	303.7	264.6	76.6	52.1	47.7
75°	125.8	124.4	107.0	88.2	83.9	69.4	53.5	49.2	34.7	33.3	28.9
77.5°	26.0	24.6	13.0	13.0	14.5	15.9	20.2	20.2	24.6	24.6	20.2
80°	0.0	0.0	1.4	5.8	10.1	14.5	17.4	17.4	20.2	20.2	15.9
82.5°	0.0	0.0	1.4	4.3	8.7	13.0	15.9	17.4	20.2	21.7	17.4
85°	0.0	0.0	0.0	2.9	7.2	10.1	8.7	8.7	7.2	5.8	2.9
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°	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9	3425.9
2.5°	3375.3	3372.4	3305.8	3268.2	3200.3	3141.0	3093.3	3058.6	3058.6	3036.9	3016.6
5°	3279.8	3255.2	3113.5	3022.4	2893.7	2798.3	2733.2	2682.6	2603.0	2624.7	2539.4
7.5°	3161.2	3099.0	2911.1	2772.2	2594.4	2458.4	2319.6	2196.7	2078.1	2024.6	2053.5
10°	3034.0	2925.5	2672.4	2452.6	2231.4	1982.6	1820.7	1624.0	1502.5	1495.3	1463.5
12.5°	2899.5	2776.6	2468.5	2164.9	1874.2	1574.8	1327.5	1143.9	1061.5	970.4	987.7
15°	2798.3	2616.0	2241.5	1875.6	1489.5	1187.3	938.5	796.8	718.7	697.0	689.8
17.5°	2688.3	2493.1	2010.1	1567.6	1168.5	854.7	675.3	607.4	577.0	577.0	572.7
20°	2574.1	2354.3	1780.2	1281.3	876.4	637.7	540.9	519.2	517.7	516.3	516.3
22.5°	2498.9	2195.2	1571.9	1018.1	660.9	510.5	470.0	461.3	467.1	484.5	484.5
25°	2419.4	2041.9	1342.0	785.2	511.9	438.2	415.0	420.8	435.3	451.2	445.4
27.5°	2338.4	1942.1	1125.1	616.0	419.4	383.2	374.5	387.6	403.5	417.9	413.6
30°	2319.6	1835.1	919.7	467.1	360.1	334.1	339.8	351.4	367.3	373.1	378.9
32.5°	2348.5	1751.3	753.4	383.2	313.8	306.6	306.6	312.4	322.5	335.5	331.2
35°	2430.9	1703.5	595.8	332.6	287.8	280.5	279.1	284.9	290.7	295.0	290.7
37.5°	2556.8	1665.9	487.3	295.0	270.4	258.9	256.0	254.5	260.3	261.7	264.6
40°	2717.3	1686.2	413.6	271.9	253.1	240.1	231.4	231.4	231.4	235.7	237.2
42.5°	2890.8	1713.7	357.2	258.9	237.2	221.3	212.6	209.7	212.6	218.4	216.9
45°	3073.0	1767.2	321.0	238.6	222.7	202.5	190.9	188.0	195.2	206.8	205.3
47.5°	3243.7	1843.8	293.6	225.6	208.2	189.4	175.0	172.1	185.1	201.0	202.5
50°	3414.3	1976.9	283.4	215.5	198.1	176.4	163.4	160.5	175.0	195.2	199.6
52.5°	3611.0	2120.0	276.2	202.5	186.6	166.3	151.8	149.0	164.9	190.9	192.3
55°	3739.7	2241.5	270.4	179.3	164.9	150.4	138.8	137.4	154.7	177.9	183.7
57.5°	3589.3	2072.3	250.2	156.2	140.3	133.0	122.9	122.9	137.4	159.1	163.4
60°	2721.6	1363.7	177.9	125.8	118.6	114.2	109.9	109.9	121.5	137.4	138.8
62.5°	1593.6	734.6	114.2	101.2	101.2	96.9	89.7	89.7	101.2	109.9	111.4
65°	472.9	235.7	92.6	86.8	85.3	78.1	70.9	69.4	78.1	82.4	81.0
67.5°	135.9	108.5	76.6	72.3	70.9	59.3	55.0	53.5	55.0	52.1	50.6
70°	81.0	73.8	59.3	60.7	53.5	43.4	39.0	37.6	34.7	30.4	27.5
72.5°	44.8	44.8	43.4	46.3	37.6	28.9	24.6	20.2	15.9	13.0	11.6
75°	27.5	28.9	30.4	31.8	24.6	18.8	15.9	10.1	5.8	2.9	2.9
77.5°	18.8	20.2	21.7	23.1	20.2	17.4	13.0	7.2	1.4	0.0	0.0
80°	14.5	15.9	18.8	20.2	21.7	23.1	17.4	7.2	1.4	0.0	0.0
82.5°	15.9	17.4	21.7	20.2	20.2	20.2	15.9	7.2	1.4	0.0	0.0
85°	2.9	4.3	7.2	7.2	10.1	13.0	10.1	2.9	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)