

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: P529949

Luminaire Tested: **GALN-SA5A-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529949  
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-SA5A-827-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 9846 lumens  
Efficiency: N/A  
Efficacy: 63.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

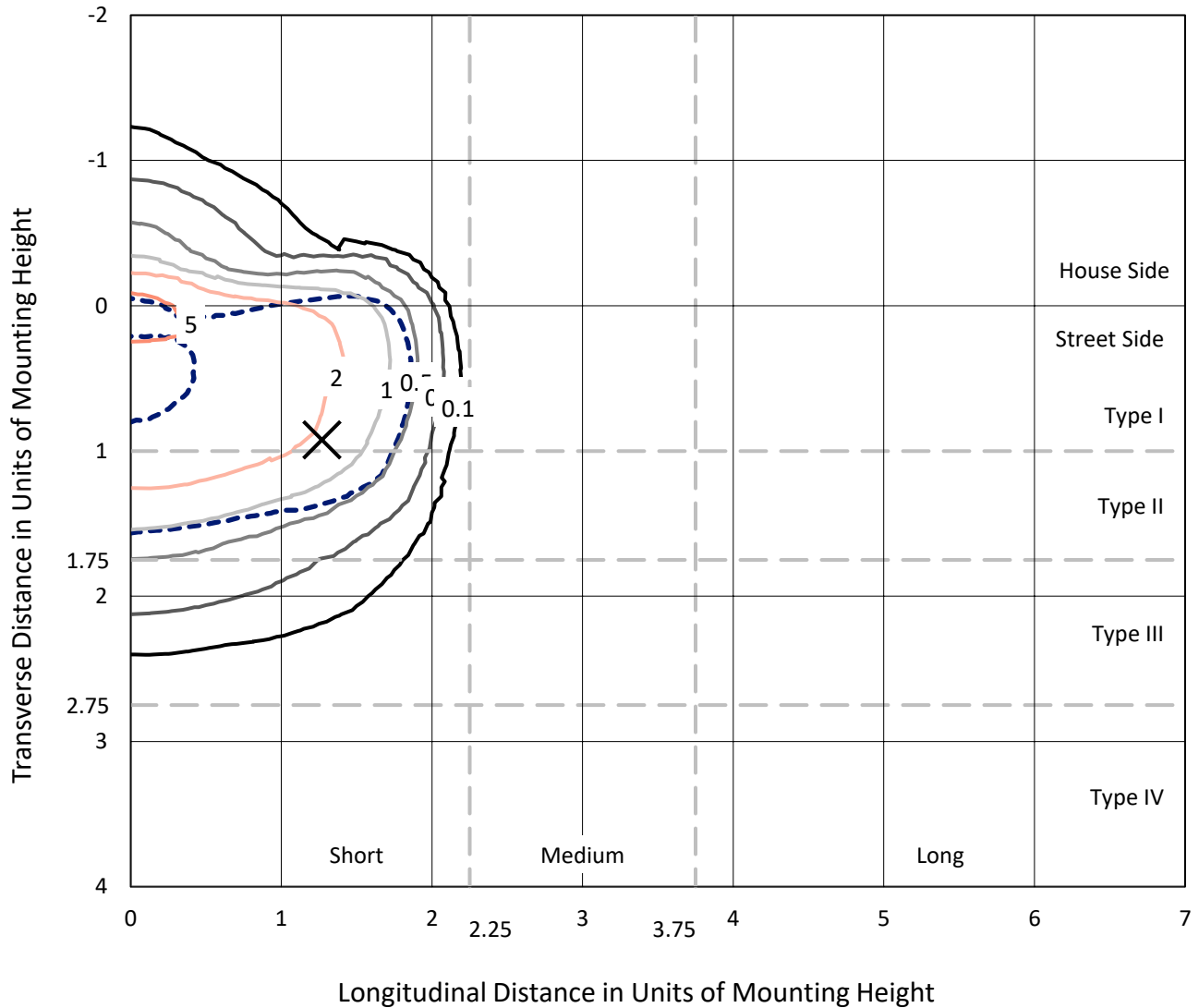
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

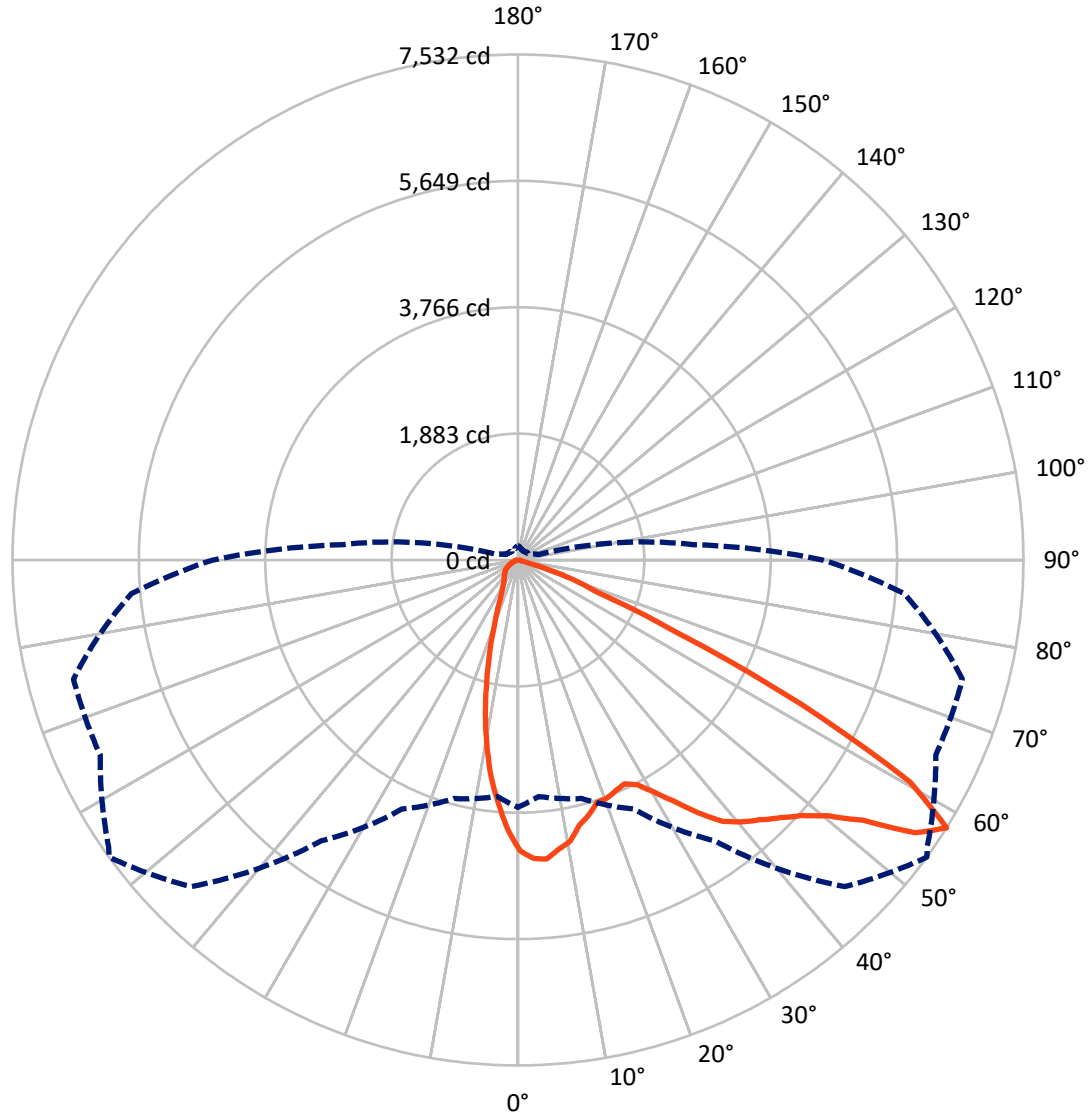
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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
<b>House Side</b>	Lumens	1391.4	0.0	1391.4
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	8454.6	0.0	8454.6
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	9846.0	0.0	9846.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	363.0	3.7
10°-20°	774.9	7.9
20°-30°	1026.9	10.4
30°-40°	1492.4	15.2
40°-50°	2213.0	22.5
50°-60°	2767.2	28.1
60°-70°	1091.5	11.1
70°-80°	108.7	1.1
80°-90°	8.5	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°	9846.0	100.0
0°-180°	9846.0	100.0

**Coefficient of Utilization**

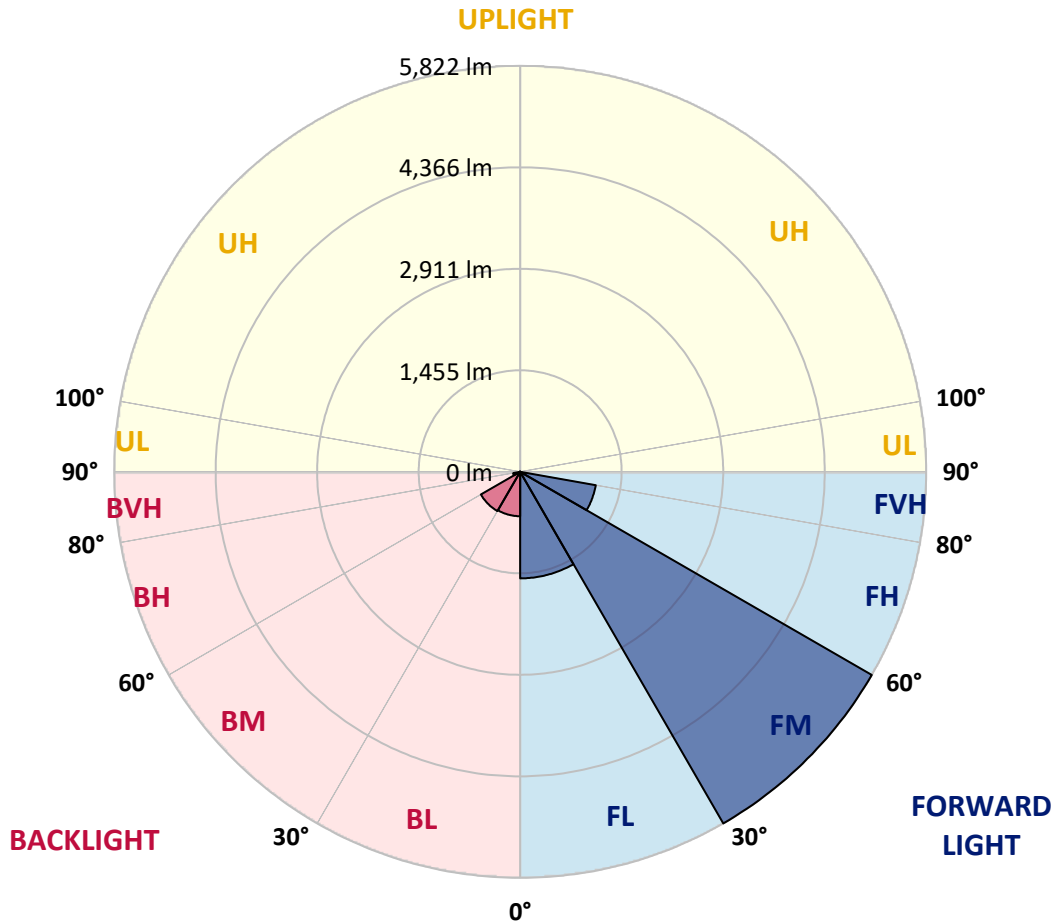


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1528.4	15.5			
FM (30°-60°)	5821.9	59.1			
FH (60°-80°)	1100.5	11.2			G1/1800
FVH (80°-90°)	3.8	0.0			G0/10
BL (0°-30°)	636.4	6.5	B2/1000		
BM (30°-60°)	650.7	6.6	B1/1000		
BH (60°-80°)	99.8	1.0	B0/110		G0/110
BVH (80°-90°)	4.6	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°	4337.3	4337.3	4337.3	4337.3	4337.3	4337.3	4337.3	4337.3	4337.3	4337.3	4337.3
2.5°	4590.0	4542.4	4546.0	4529.5	4507.6	4524.0	4452.6	4469.1	4467.3	4370.3	4306.2
5°	4474.6	4525.9	4472.8	4516.7	4474.6	4520.4	4476.4	4443.5	4390.4	4319.0	4200.0
7.5°	4278.7	4229.3	4243.9	4298.8	4308.0	4410.5	4355.6	4397.7	4375.7	4234.8	4071.8
10°	3885.1	3874.1	3947.3	4020.6	4110.3	4220.1	4262.2	4238.4	4222.0	4168.9	3951.0
12.5°	3583.0	3614.1	3612.3	3733.1	3885.1	3947.3	4057.2	4053.5	4145.1	4046.2	3837.5
15°	3295.5	3312.0	3388.9	3464.0	3632.4	3810.0	3945.5	3963.8	4073.7	4004.1	3749.6
17.5°	3119.8	3096.0	3156.4	3246.1	3418.2	3650.7	3800.9	3844.8	3994.9	3980.3	3648.9
20°	2945.8	2945.8	2995.3	3101.5	3258.9	3520.7	3788.0	3775.2	3994.9	3952.8	3540.9
22.5°	2887.3	2916.6	2929.4	3009.9	3196.7	3421.9	3733.1	3756.9	4026.1	3940.0	3493.3
25°	2967.8	2929.4	2933.0	2997.1	3172.9	3374.3	3692.8	3745.9	4082.8	4004.1	3454.8
27.5°	2980.6	3019.1	3030.1	3074.0	3191.2	3388.9	3793.5	3901.6	4223.8	4154.2	3465.8
30°	3092.3	3130.8	3128.9	3204.0	3284.6	3507.9	4018.7	4040.7	4514.9	4342.8	3533.6
32.5°	3227.8	3268.1	3280.9	3368.8	3432.9	3725.8	4293.4	4350.1	4795.0	4639.4	3711.1
35°	3396.2	3381.6	3440.2	3528.1	3665.4	4044.4	4628.4	4723.6	5097.1	5023.9	3894.2
37.5°	3606.8	3588.5	3645.2	3788.0	3974.8	4421.5	4937.8	5000.1	5316.8	5380.9	4232.9
40°	3755.1	3762.4	3934.5	4126.7	4324.5	4780.4	5133.7	5194.1	5470.6	5714.1	4489.3
42.5°	4002.2	4048.0	4254.9	4489.3	4696.1	5049.5	5293.0	5351.6	5542.0	5981.4	4835.3
45°	4361.1	4341.0	4569.8	4831.6	5060.5	5329.6	5481.6	5461.4	5584.1	6246.9	5053.2
47.5°	4822.5	4826.1	4978.1	5201.5	5439.5	5573.1	5692.1	5620.7	5672.0	6527.0	5344.3
50°	5137.4	5164.8	5287.5	5516.4	5635.4	5840.4	5992.4	5948.4	5932.0	6695.4	5527.4
52.5°	5217.9	5300.3	5366.2	5651.8	5930.1	6254.2	6448.3	6541.6	6248.7	6752.2	5759.9
55°	4610.1	4683.3	4915.8	5307.6	6041.8	6909.6	7177.0	7178.8	6662.5	7004.9	5922.8
57.5°	3685.5	3537.2	3680.0	4095.6	5108.1	6882.2	7532.1	7446.1	6869.4	6856.6	5781.8
60°	2548.6	2511.9	2521.1	2685.9	3535.4	5474.3	6711.9	6823.6	6325.6	5943.0	4577.1
62.5°	2019.4	1988.3	1948.0	1929.7	2195.2	3410.9	4734.6	4892.0	4423.3	3853.9	2713.3
65°	1581.9	1563.6	1569.0	1642.3	1640.4	1935.2	2588.8	2524.7	2021.3	1494.0	853.2
67.5°	1067.4	1094.9	1116.8	1338.4	1451.9	1347.5	1250.5	1213.9	657.3	276.5	188.6
70°	600.5	604.2	628.0	836.7	1102.2	1045.4	862.3	862.3	327.7	100.7	108.0
72.5°	327.7	316.7	294.8	360.7	490.7	498.0	384.5	335.0	97.0	65.9	60.4
75°	159.3	157.5	135.5	111.7	106.2	87.9	67.7	62.2	43.9	42.1	36.6
77.5°	33.0	31.1	16.5	16.5	18.3	20.1	25.6	25.6	31.1	31.1	25.6
80°	0.0	0.0	1.8	7.3	12.8	18.3	22.0	22.0	25.6	25.6	20.1
82.5°	0.0	0.0	1.8	5.5	11.0	16.5	20.1	22.0	25.6	27.5	22.0
85°	0.0	0.0	0.0	3.7	9.2	12.8	11.0	11.0	9.2	7.3	3.7
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°	4337.3	4337.3	4337.3	4337.3	4337.3	4337.3	4337.3	4337.3	4337.3	4337.3	4337.3
2.5°	4273.2	4269.6	4185.3	4137.7	4051.7	3976.6	3916.2	3872.3	3872.3	3844.8	3819.2
5°	4152.4	4121.3	3941.8	3826.5	3663.5	3542.7	3460.3	3396.2	3295.5	3323.0	3215.0
7.5°	4002.2	3923.5	3685.5	3509.7	3284.6	3112.5	2936.7	2781.1	2630.9	2563.2	2599.8
10°	3841.1	3703.8	3383.4	3105.1	2825.0	2510.1	2305.0	2056.1	1902.3	1893.1	1852.8
12.5°	3670.9	3515.2	3125.3	2740.8	2372.8	1993.8	1680.7	1448.2	1343.8	1228.5	1250.5
15°	3542.7	3312.0	2837.8	2374.6	1885.8	1503.1	1188.2	1008.8	909.9	882.5	873.3
17.5°	3403.6	3156.4	2544.9	1984.6	1479.3	1082.0	855.0	769.0	730.5	730.5	725.0
20°	3258.9	2980.6	2253.8	1622.1	1109.5	807.4	684.7	657.3	655.4	653.6	653.6
22.5°	3163.7	2779.2	1990.1	1288.9	836.7	646.3	595.0	584.0	591.4	613.3	613.3
25°	3063.0	2585.2	1699.0	994.2	648.1	554.7	525.5	532.8	551.1	571.2	563.9
27.5°	2960.5	2458.8	1424.4	779.9	530.9	485.2	474.2	490.7	510.8	529.1	523.6
30°	2936.7	2323.4	1164.4	591.4	455.9	422.9	430.3	444.9	465.0	472.4	479.7
32.5°	2973.3	2217.2	953.9	485.2	397.3	388.1	388.1	395.5	408.3	424.8	419.3
35°	3077.7	2156.7	754.3	421.1	364.3	355.2	353.4	360.7	368.0	373.5	368.0
37.5°	3237.0	2109.1	617.0	373.5	342.4	327.7	324.1	322.2	329.6	331.4	335.0
40°	3440.2	2134.8	523.6	344.2	320.4	303.9	292.9	292.9	292.9	298.4	300.3
42.5°	3659.9	2169.6	452.2	327.7	300.3	280.1	269.1	265.5	269.1	276.5	274.6
45°	3890.6	2237.3	406.4	302.1	282.0	256.3	241.7	238.0	247.2	261.8	260.0
47.5°	4106.6	2334.3	371.7	285.6	263.6	239.8	221.5	217.9	234.3	254.5	256.3
50°	4322.6	2502.8	358.8	272.8	250.8	223.4	206.9	203.2	221.5	247.2	252.7
52.5°	4571.6	2684.0	349.7	256.3	236.2	210.5	192.2	188.6	208.7	241.7	243.5
55°	4734.6	2837.8	342.4	227.0	208.7	190.4	175.8	173.9	195.9	225.2	232.5
57.5°	4544.2	2623.6	316.7	197.7	177.6	168.4	155.6	155.6	173.9	201.4	206.9
60°	3445.7	1726.5	225.2	159.3	150.1	144.6	139.1	139.1	153.8	173.9	175.8
62.5°	2017.6	930.1	144.6	128.2	128.2	122.7	113.5	113.5	128.2	139.1	141.0
65°	598.7	298.4	117.2	109.9	108.0	98.9	89.7	87.9	98.9	104.4	102.5
67.5°	172.1	137.3	97.0	91.5	89.7	75.1	69.6	67.7	69.6	65.9	64.1
70°	102.5	93.4	75.1	76.9	67.7	54.9	49.4	47.6	43.9	38.4	34.8
72.5°	56.8	56.8	54.9	58.6	47.6	36.6	31.1	25.6	20.1	16.5	14.6
75°	34.8	36.6	38.4	40.3	31.1	23.8	20.1	12.8	7.3	3.7	3.7
77.5°	23.8	25.6	27.5	29.3	25.6	22.0	16.5	9.2	1.8	0.0	0.0
80°	18.3	20.1	23.8	25.6	27.5	29.3	22.0	9.2	1.8	0.0	0.0
82.5°	20.1	22.0	27.5	25.6	25.6	25.6	20.1	9.2	1.8	0.0	0.0
85°	3.7	5.5	9.2	9.2	12.8	16.5	12.8	3.7	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)