

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: P529961

Luminaire Tested: **GALN-SA5A-827-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529961
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
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-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10239 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

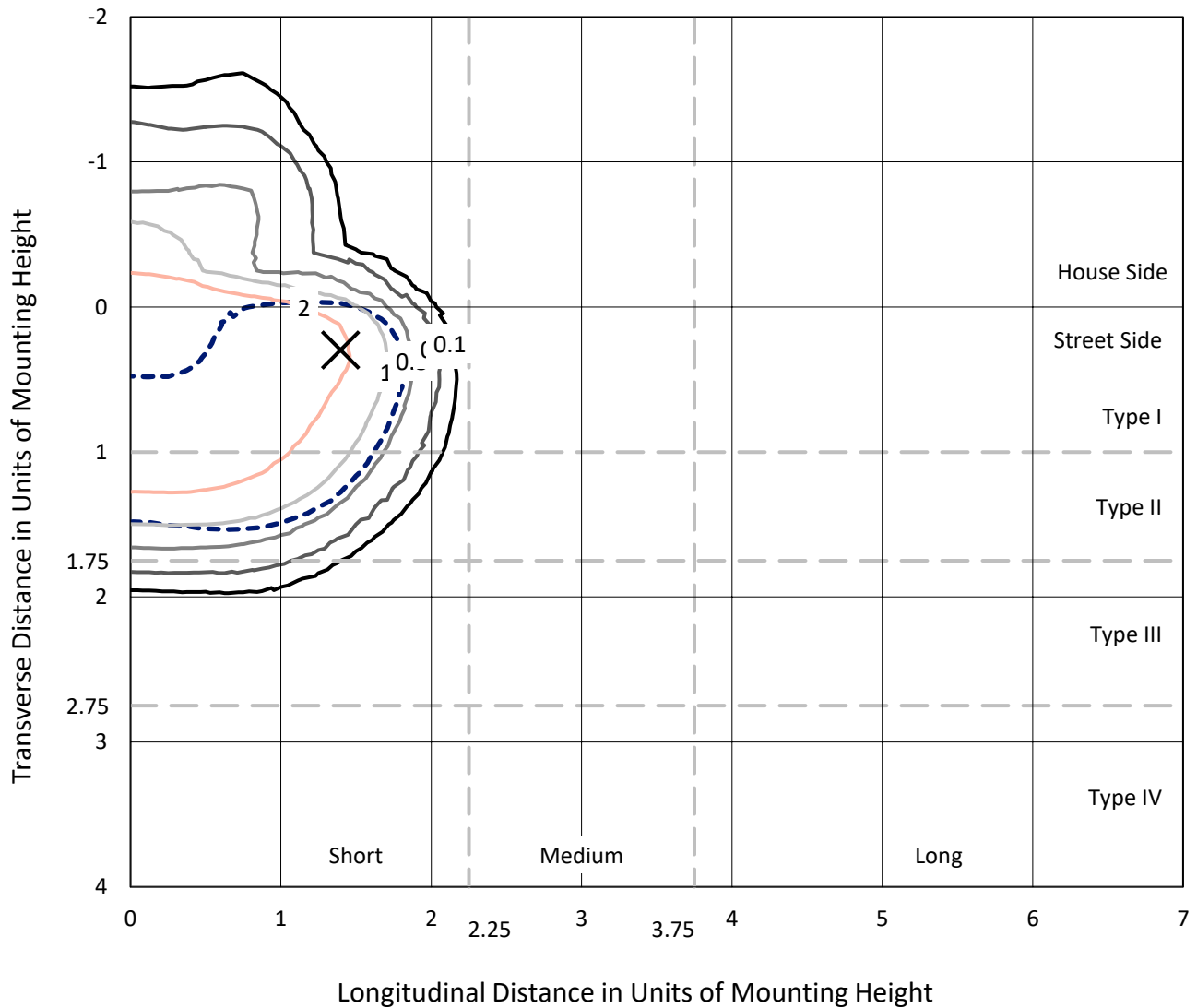
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

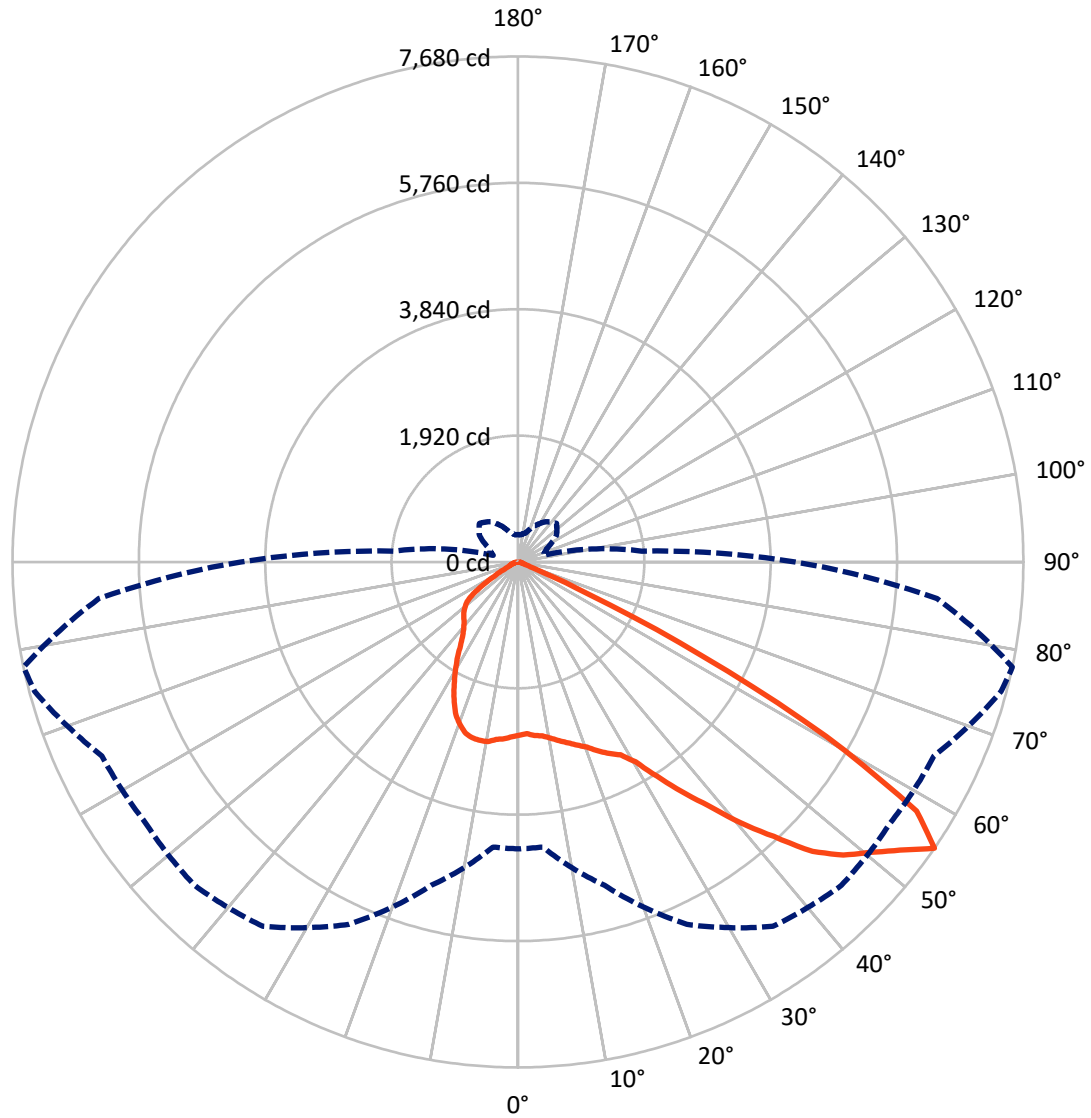
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1901.8	0.0	1901.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	8337.2	0.0	8337.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	10239.0	0.0	10239.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.7	2.3
10°-20°	621.2	6.1
20°-30°	1088.9	10.6
30°-40°	1795.4	17.5
40°-50°	2612.6	25.5
50°-60°	2960.3	28.9
60°-70°	846.4	8.3
70°-80°	65.7	0.6
80°-90°	13.7	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°	10239.0	100.0
0°-180°	10239.0	100.0

Coefficient of Utilization



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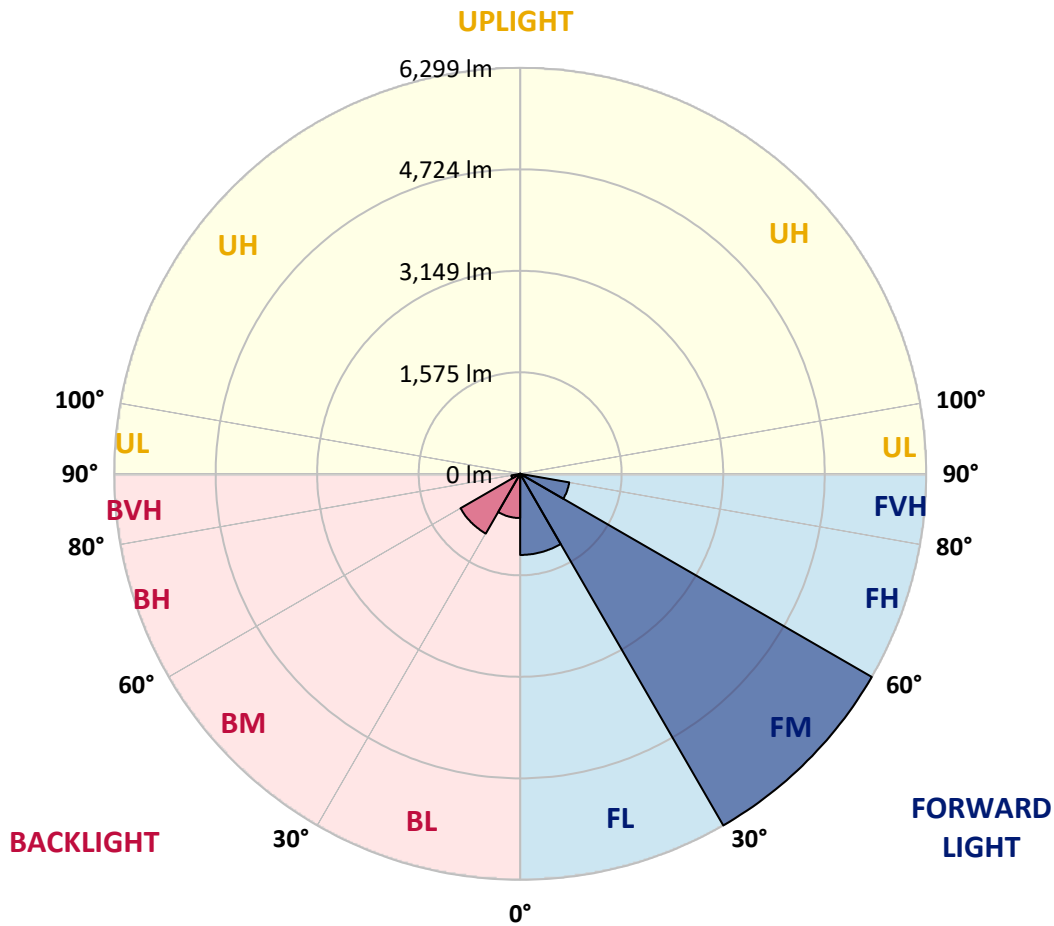
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1258.7	12.3			
FM (30°-60°)	6298.6	61.5			
FH (60°-80°)	773.3	7.6			G1/1800
FVH (80°-90°)	6.7	0.1			G0/10
BL (0°-30°)	686.2	6.7	B2/1000		
BM (30°-60°)	1069.8	10.4	B2/2500		
BH (60°-80°)	138.8	1.4	B1/500		G1/500
BVH (80°-90°)	7.0	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°	55°	65°	75°	78°	85°
0°	2632.5	2632.5	2632.5	2632.5	2632.5	2632.5	2632.5	2632.5	2632.5	2632.5	2632.5
2.5°	2475.0	2498.8	2502.5	2531.8	2529.9	2579.4	2594.0	2595.8	2628.8	2612.3	2654.4
5°	2405.5	2392.6	2387.1	2438.4	2453.1	2497.0	2533.6	2555.6	2623.3	2647.1	2691.0
7.5°	2343.2	2343.2	2346.9	2392.6	2387.1	2443.9	2482.3	2550.1	2648.9	2669.1	2722.2
10°	2282.8	2260.8	2288.3	2335.9	2376.2	2401.8	2482.3	2546.4	2661.7	2720.3	2793.5
12.5°	2251.7	2262.7	2266.3	2301.1	2345.0	2421.9	2465.9	2572.0	2753.3	2788.1	2866.8
15°	2447.6	2425.6	2372.5	2341.4	2378.0	2414.6	2524.4	2632.5	2800.9	2850.3	2938.2
17.5°	2674.6	2656.3	2612.3	2528.1	2445.7	2513.5	2599.5	2698.4	2852.1	2925.4	3055.3
20°	2971.1	2941.8	2897.9	2733.1	2661.7	2588.5	2680.0	2797.2	2936.3	3002.2	3135.9
22.5°	3324.4	3324.4	3225.6	3026.0	2877.8	2808.2	2846.6	2914.4	3029.7	3119.4	3251.2
25°	3692.4	3681.4	3591.7	3384.8	3134.0	3051.7	3095.6	3143.2	3174.3	3223.7	3311.6
27.5°	4113.4	4049.4	3935.9	3707.0	3485.5	3326.3	3373.9	3331.8	3293.3	3318.9	3445.3
30°	4399.0	4439.3	4294.7	4075.0	3866.3	3688.7	3697.9	3661.3	3485.5	3522.1	3597.2
32.5°	4695.6	4721.2	4640.7	4519.8	4311.1	4104.3	4029.2	3998.1	3866.3	3882.8	3809.6
35°	4942.7	4992.1	4920.7	4867.7	4807.2	4640.7	4433.8	4534.5	4322.1	4281.9	4091.5
37.5°	5169.7	5155.1	5239.3	5184.4	5171.5	5054.4	4827.4	4847.5	4704.7	4695.6	4475.9
40°	5372.9	5376.6	5491.9	5517.5	5466.3	5257.6	4928.1	5087.3	5202.7	5213.6	4931.7
42.5°	5541.3	5590.8	5689.6	5896.5	5819.6	5471.8	5032.4	5206.3	5634.7	5702.4	5363.8
45°	5687.8	5788.5	5911.1	6096.0	6052.1	5775.7	5292.4	5451.6	6096.0	6273.6	5770.2
47.5°	5696.9	5828.7	5962.4	6237.0	6291.9	5938.6	5561.5	5839.7	6462.1	6654.4	6066.7
50°	5660.3	5729.9	5997.2	6295.6	6420.0	6204.0	5938.6	6165.6	6817.3	6938.1	6216.8
52.5°	5226.5	5279.6	5815.9	6350.5	6650.7	6504.2	6438.3	6619.6	7179.7	7269.5	6357.8
55°	4356.9	4347.8	5085.5	6074.0	6756.9	6949.1	6908.8	6972.9	7599.0	7679.5	6392.6
57.5°	2980.3	3146.9	3783.9	5058.0	6107.0	6844.7	6886.8	6780.7	7110.2	7141.3	5572.5
60°	1607.3	1676.9	2189.4	3375.7	4649.8	5577.9	5687.8	5495.6	5469.9	5382.1	3978.0
62.5°	638.9	673.7	964.7	1671.4	2533.6	3390.3	3626.5	3547.8	3379.4	3148.7	2059.5
65°	303.9	325.9	479.6	781.7	1124.0	1413.3	1649.4	1722.6	1270.5	1144.1	679.2
67.5°	206.9	223.3	349.7	446.7	400.9	419.2	545.5	507.1	298.4	254.5	188.6
70°	157.4	168.4	280.1	303.9	179.4	126.3	141.0	131.8	122.7	124.5	122.7
72.5°	111.7	120.8	205.0	179.4	78.7	58.6	75.1	89.7	89.7	89.7	87.9
75°	67.7	76.9	119.0	69.6	31.1	31.1	47.6	60.4	64.1	65.9	62.2
77.5°	34.8	43.9	40.3	20.1	20.1	23.8	34.8	42.1	45.8	45.8	43.9
80°	7.3	7.3	7.3	11.0	20.1	25.6	34.8	38.4	43.9	43.9	40.3
82.5°	0.0	1.8	5.5	11.0	18.3	23.8	33.0	38.4	43.9	45.8	42.1
85°	0.0	1.8	3.7	7.3	12.8	14.6	12.8	11.0	11.0	11.0	11.0
87.5°	0.0	0.0	1.8	1.8	1.8	3.7	3.7	3.7	3.7	3.7	3.7
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°	2632.5	2632.5	2632.5	2632.5	2632.5	2632.5	2632.5	2632.5	2632.5	2632.5	2632.5
2.5°	2658.1	2663.6	2654.4	2652.6	2645.3	2667.2	2614.1	2601.3	2634.3	2603.2	2610.5
5°	2692.9	2705.7	2689.2	2661.7	2621.5	2559.2	2506.1	2436.6	2403.6	2379.8	2376.2
7.5°	2718.5	2727.6	2711.2	2623.3	2502.5	2345.0	2227.9	2141.8	2074.1	2054.0	2021.0
10°	2822.8	2824.7	2742.3	2548.2	2312.1	2105.2	1925.8	1794.0	1726.3	1684.2	1665.9
12.5°	2892.4	2888.7	2722.2	2400.0	2085.1	1810.5	1605.5	1446.2	1384.0	1363.8	1351.0
15°	2980.3	2960.1	2674.6	2248.0	1792.2	1495.6	1310.7	1200.9	1195.4	1182.6	1195.4
17.5°	3049.8	2993.1	2605.0	1971.6	1512.1	1232.0	1111.2	1118.5	1133.2	1146.0	1147.8
20°	3163.3	3046.2	2445.7	1729.9	1252.2	1056.3	1054.4	1087.4	1124.0	1138.7	1153.3
22.5°	3249.4	3068.1	2275.5	1471.8	1039.8	984.9	1016.0	1065.4	1092.9	1107.5	1129.5
25°	3280.5	3007.7	2048.5	1213.7	937.3	951.9	999.5	1032.5	1067.3	1083.7	1074.6
27.5°	3311.6	2976.6	1777.5	999.5	882.4	930.0	970.2	1003.2	1014.2	1036.1	1050.8
30°	3386.7	2868.6	1534.1	864.1	854.9	915.3	944.6	955.6	984.9	997.7	997.7
32.5°	3447.1	2826.5	1276.0	800.0	851.2	922.6	926.3	926.3	930.0	920.8	917.1
35°	3571.6	2681.9	1045.3	761.5	849.4	924.5	933.6	902.5	818.3	785.3	776.2
37.5°	3725.3	2588.5	875.0	752.4	862.2	946.4	961.1	843.9	734.1	681.0	671.8
40°	3912.1	2522.6	763.4	748.7	891.5	997.7	953.8	798.2	655.4	578.5	574.8
42.5°	4129.9	2462.2	688.3	746.9	928.1	1050.8	946.4	759.7	574.8	523.6	530.9
45°	4303.8	2429.3	637.1	734.1	940.9	1081.9	951.9	692.0	541.9	508.9	512.6
47.5°	4439.3	2359.7	595.0	712.1	939.1	1092.9	902.5	664.5	525.4	534.5	543.7
50°	4443.0	2266.3	541.9	664.5	911.7	1072.8	845.8	638.9	521.7	560.2	578.5
52.5°	4393.5	2134.5	485.1	596.8	847.6	1003.2	794.5	627.9	505.3	501.6	523.6
55°	4217.8	1887.4	389.9	483.3	715.8	827.4	748.7	607.8	455.8	413.7	417.4
57.5°	3408.6	1352.8	287.4	346.0	507.1	605.9	675.5	598.6	410.1	351.5	353.3
60°	2110.7	767.0	210.5	236.2	313.0	368.0	547.4	556.5	366.1	296.6	292.9
62.5°	1083.7	378.9	162.9	166.6	192.2	216.0	375.3	466.8	331.3	281.9	281.9
65°	362.5	186.7	142.8	128.1	128.1	133.6	227.0	324.0	280.1	236.2	236.2
67.5°	155.6	139.1	124.5	111.7	102.5	97.0	128.1	188.6	208.7	179.4	172.1
70°	120.8	117.2	108.0	93.4	80.5	73.2	75.1	97.0	119.0	115.3	111.7
72.5°	89.7	89.7	86.0	73.2	62.2	53.1	49.4	51.3	56.7	58.6	60.4
75°	62.2	64.1	64.1	56.7	45.8	38.4	33.0	27.5	22.0	18.3	16.5
77.5°	42.1	43.9	47.6	42.1	34.8	25.6	20.1	14.6	9.2	3.7	3.7
80°	36.6	42.1	45.8	42.1	36.6	27.5	20.1	11.0	5.5	0.0	0.0
82.5°	38.4	42.1	47.6	40.3	34.8	25.6	20.1	12.8	5.5	1.8	0.0
85°	9.2	9.2	11.0	12.8	16.5	18.3	14.6	9.2	5.5	1.8	0.0
87.5°	3.7	3.7	3.7	3.7	3.7	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)