

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: P527919

Luminaire Tested: **GALN-SA3A-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527919
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-SA3A-727-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 615mA 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: 6664 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

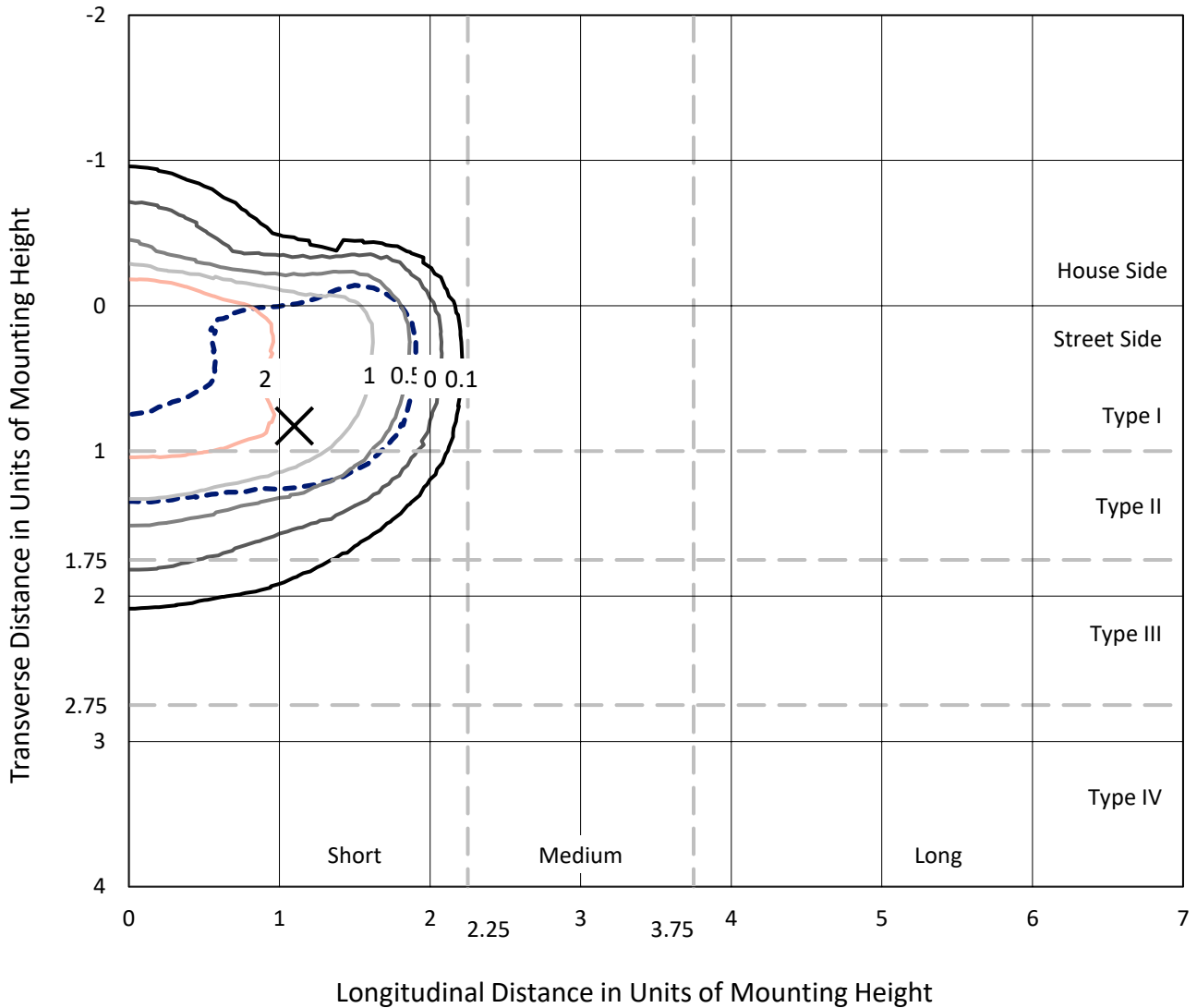
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

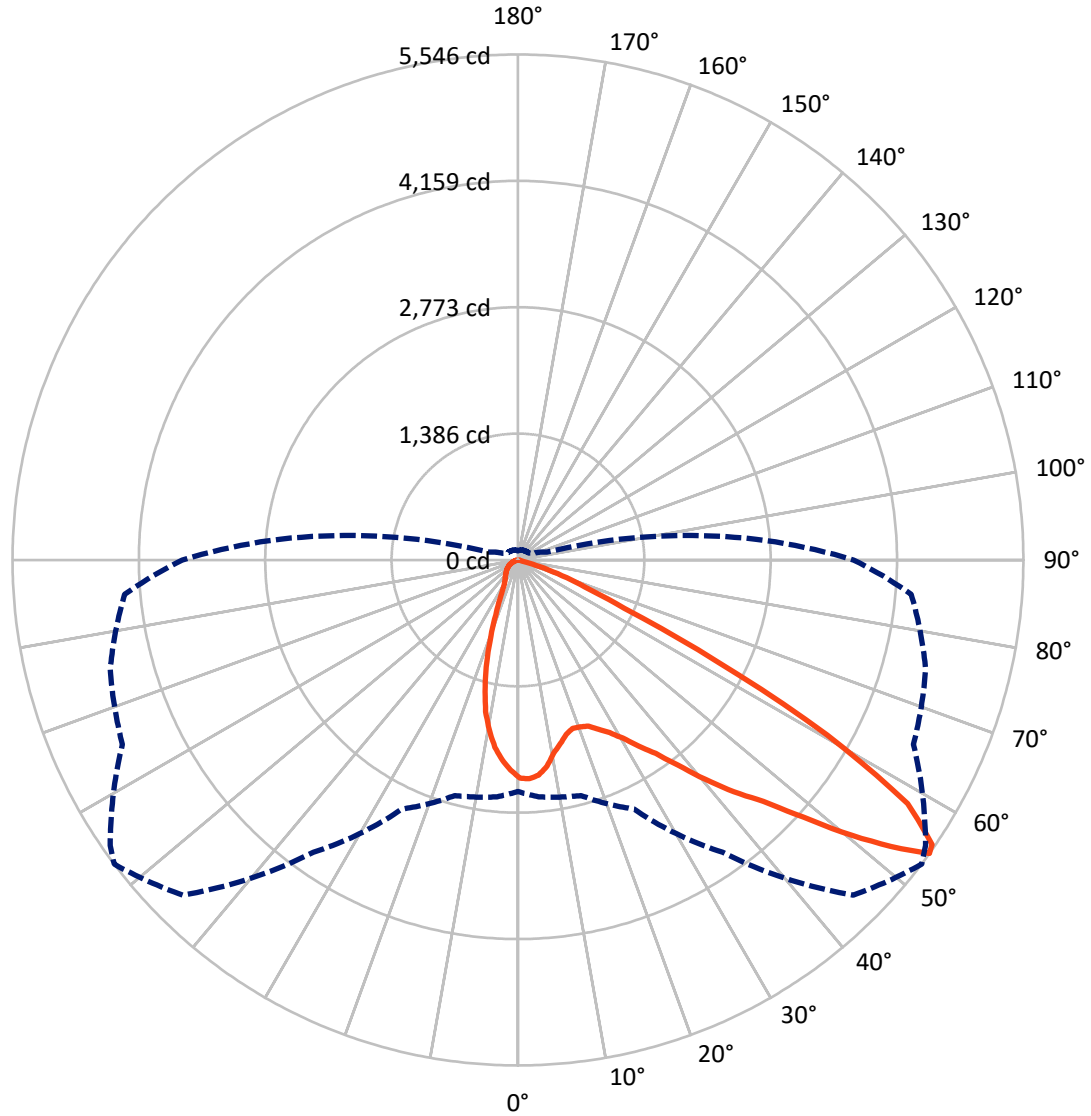
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 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	1102.6	0.0	1102.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	5561.4	0.0	5561.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	6664.0	0.0	6664.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.4	3.1
10°-20°	470.8	7.1
20°-30°	669.2	10.0
30°-40°	1032.7	15.5
40°-50°	1619.2	24.3
50°-60°	1880.9	28.2
60°-70°	710.7	10.7
70°-80°	67.6	1.0
80°-90°	7.6	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°	6664.0	100.0
0°-180°	6664.0	100.0

Coefficient of Utilization



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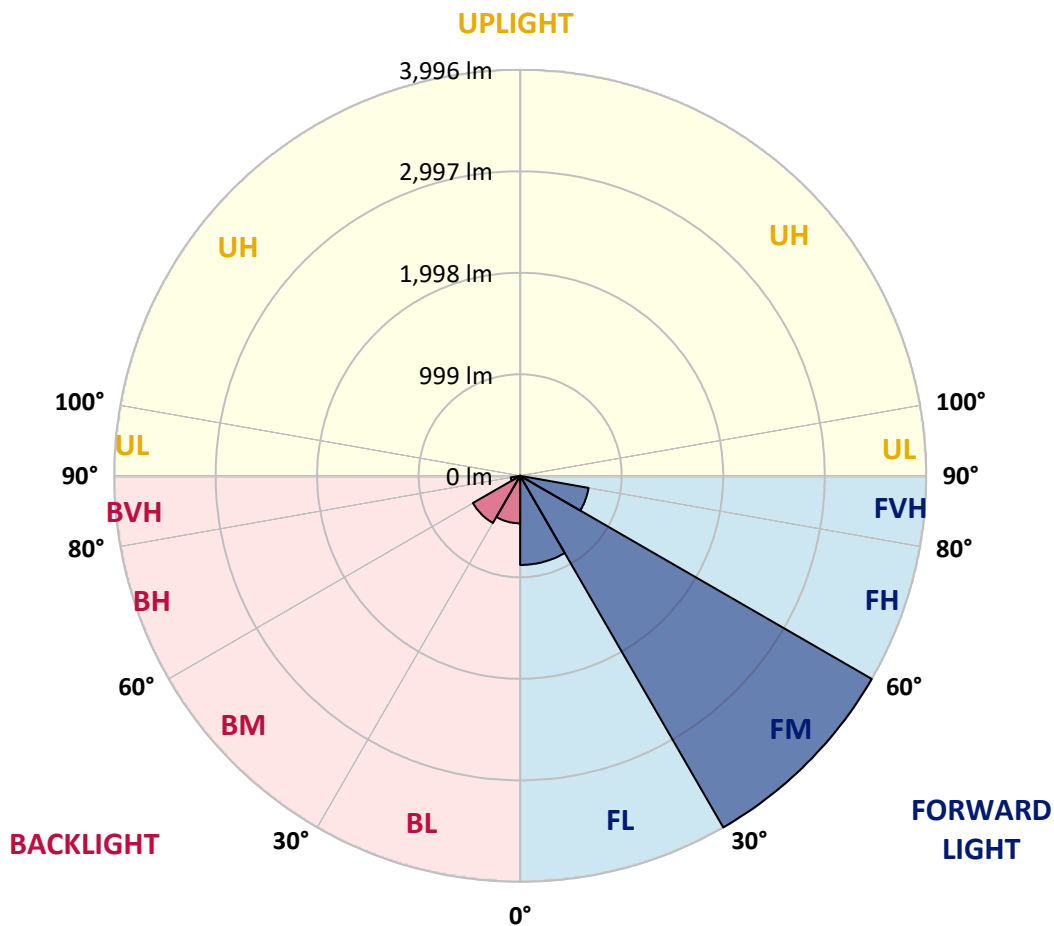
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	877.5	13.2			
FM (30°-60°)	3996.2	60.0			
FH (60°-80°)	683.8	10.3			G1/1800
FVH (80°-90°)	3.9	0.1			G0/10
BL (0°-30°)	467.9	7.0	B1/500		
BM (30°-60°)	536.5	8.1	B1/1000		
BH (60°-80°)	94.5	1.4	B0/110		G0/110
BVH (80°-90°)	3.7	0.1			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°	53°	55°	65°	75°	85°
0°	2393.6	2393.6	2393.6	2393.6	2393.6	2393.6	2393.6	2393.6	2393.6	2393.6	2393.6
2.5°	2381.2	2360.1	2381.2	2383.7	2398.6	2412.2	2403.5	2423.4	2412.2	2399.8	2396.1
5°	2188.8	2217.3	2218.5	2263.2	2253.3	2335.2	2371.2	2361.3	2422.2	2418.4	2409.7
7.5°	2016.2	2005.0	2019.9	2072.1	2137.8	2232.2	2284.3	2283.1	2370.0	2432.1	2425.9
10°	1856.0	1854.8	1885.8	1926.8	1982.7	2082.0	2154.0	2190.0	2325.3	2419.7	2433.3
12.5°	1748.0	1743.1	1776.6	1810.1	1898.2	1975.2	2067.1	2084.5	2239.7	2376.2	2398.6
15°	1677.3	1688.4	1690.9	1755.5	1811.3	1913.1	1985.1	2021.1	2199.9	2341.5	2427.1
17.5°	1664.8	1679.7	1681.0	1734.4	1794.0	1879.6	1942.9	1991.4	2166.4	2358.8	2428.4
20°	1689.7	1681.0	1688.4	1721.9	1780.3	1862.2	1954.1	1970.2	2155.2	2367.5	2442.0
22.5°	1760.4	1758.0	1739.3	1766.6	1807.6	1893.3	1980.2	2005.0	2187.5	2412.2	2453.2
25°	1838.6	1852.3	1834.9	1831.2	1859.8	1944.2	2059.6	2091.9	2295.5	2492.9	2487.9
27.5°	1985.1	1971.5	1971.5	1954.1	1946.7	1987.6	2145.3	2198.7	2415.9	2597.2	2527.7
30°	2125.4	2140.3	2129.2	2135.4	2085.7	2082.0	2267.0	2332.8	2629.5	2756.1	2612.1
32.5°	2347.7	2327.8	2346.4	2330.3	2264.5	2197.4	2432.1	2500.4	2887.7	2938.6	2738.7
35°	2532.6	2524.0	2603.4	2600.9	2494.2	2428.4	2607.1	2708.9	3067.7	3157.1	2887.7
37.5°	2795.8	2779.7	2870.3	2913.8	2818.2	2720.1	2857.9	2975.9	3235.3	3332.2	3040.4
40°	3066.5	3107.5	3229.1	3301.1	3199.3	3069.0	3164.6	3200.6	3347.1	3446.4	3144.7
42.5°	3409.1	3468.7	3592.9	3655.0	3646.3	3504.7	3476.2	3474.9	3427.8	3414.1	3221.7
45°	3738.1	3715.8	3907.0	4042.3	4151.5	4110.6	3776.6	3739.4	3555.6	3462.5	3241.5
47.5°	3882.1	3874.7	4005.1	4245.9	4618.3	4669.3	4213.6	4069.6	3771.7	3666.1	3349.5
50°	3695.9	3734.4	3863.5	4130.4	4701.5	5090.1	4749.9	4556.3	4023.7	3914.4	3605.3
52.5°	3087.6	3113.7	3236.6	3575.5	4418.5	5338.4	5263.9	5152.2	4486.8	4305.5	4051.0
54°	2538.9	2608.4	2675.4	3015.6	3914.4	5200.6	5545.7	5460.1	4788.4	4630.8	4331.6
55°	2211.1	2252.1	2300.5	2639.4	3565.6	4967.2	5513.5	5520.9	4990.8	4732.6	4520.3
57.5°	1615.2	1643.7	1594.1	1744.3	2448.2	4033.6	5042.9	5244.1	5263.9	4885.3	4635.7
60°	1234.0	1246.5	1190.6	1214.2	1522.1	2768.5	3900.8	4142.9	4748.7	4269.5	3926.8
62.5°	957.2	959.7	958.4	999.4	1049.1	1628.8	2439.5	2654.3	3273.8	3031.7	2666.7
65°	705.2	694.0	713.9	838.0	895.1	1024.2	1284.9	1441.4	1779.1	1502.2	1073.9
67.5°	456.9	460.6	480.5	623.2	767.2	785.9	790.8	778.4	779.7	429.6	269.4
70°	274.4	280.6	274.4	352.6	548.7	563.6	515.2	502.8	392.3	101.8	100.6
72.5°	162.6	153.9	137.8	151.5	228.4	273.1	245.8	244.6	153.9	59.6	59.6
75°	68.3	62.1	50.9	45.9	60.8	58.4	58.4	52.1	41.0	39.7	37.2
77.5°	13.7	13.7	9.9	11.2	14.9	17.4	21.1	21.1	24.8	24.8	23.6
80°	0.0	1.2	3.7	7.4	11.2	16.1	18.6	18.6	21.1	21.1	17.4
82.5°	0.0	1.2	3.7	7.4	9.9	14.9	18.6	18.6	21.1	22.3	18.6
85°	0.0	1.2	3.7	6.2	9.9	12.4	12.4	11.2	8.7	7.4	5.0
87.5°	0.0	0.0	1.2	2.5	1.2	2.5	2.5	2.5	2.5	2.5	2.5
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°	2393.6	2393.6	2393.6	2393.6	2393.6	2393.6	2393.6	2393.6	2393.6	2393.6	2393.6
2.5°	2404.8	2403.5	2373.7	2325.3	2314.1	2273.2	2268.2	2243.4	2257.0	2211.1	2206.1
5°	2384.9	2370.0	2334.0	2303.0	2212.3	2147.8	2096.9	2034.8	1998.8	2005.0	1981.4
7.5°	2413.5	2375.0	2311.7	2203.6	2093.2	1980.2	1919.3	1792.7	1746.8	1678.5	1668.6
10°	2383.7	2355.1	2257.0	2078.3	1925.6	1762.9	1620.1	1479.9	1373.1	1327.2	1317.2
12.5°	2381.2	2331.5	2167.6	1969.0	1748.0	1514.6	1307.3	1132.2	1026.7	967.1	953.5
15°	2342.7	2283.1	2067.1	1800.2	1494.8	1204.2	978.3	809.5	728.8	694.0	703.9
17.5°	2346.4	2257.0	1966.5	1621.4	1245.2	883.9	667.9	581.0	559.9	568.6	568.6
20°	2342.7	2198.7	1844.9	1415.3	953.5	613.3	490.4	459.4	473.0	500.3	494.1
22.5°	2322.8	2171.4	1733.1	1198.0	701.4	454.4	393.6	394.8	415.9	449.4	456.9
25°	2337.7	2110.5	1591.6	978.3	511.5	362.5	341.4	350.1	372.4	397.3	402.2
27.5°	2326.6	2067.1	1443.9	759.8	373.7	311.6	310.4	320.3	330.2	348.9	348.9
30°	2339.0	2027.4	1298.6	564.9	307.9	285.5	280.6	288.0	298.0	301.7	300.4
32.5°	2384.9	1997.6	1131.0	422.1	271.9	260.7	260.7	260.7	259.5	264.4	265.7
35°	2485.5	2002.5	983.3	326.5	248.3	239.6	235.9	230.9	228.4	230.9	232.2
37.5°	2594.7	2000.0	830.6	278.1	230.9	223.5	214.8	207.3	206.1	208.6	204.8
40°	2643.1	2023.6	689.0	249.5	214.8	206.1	192.4	186.2	187.5	189.9	187.5
42.5°	2708.9	2031.1	597.2	227.2	199.9	186.2	177.5	170.1	168.8	172.6	171.3
45°	2707.7	1988.9	500.3	214.8	186.2	171.3	160.2	153.9	153.9	156.4	157.7
47.5°	2787.1	1982.7	429.6	203.6	176.3	161.4	147.7	142.8	141.5	141.5	139.0
50°	2972.1	2069.6	374.9	191.2	163.9	150.2	139.0	132.8	127.9	125.4	124.1
52.5°	3333.4	2340.2	332.7	176.3	150.2	139.0	129.1	124.1	117.9	111.7	110.5
54°	3683.5	2619.5	330.2	163.9	139.0	131.6	122.9	120.4	113.0	104.3	101.8
55°	3841.2	2782.2	338.9	153.9	131.6	126.6	119.2	116.7	109.3	99.3	98.1
57.5°	3971.5	2845.5	334.0	127.9	119.2	117.9	111.7	108.0	99.3	85.7	83.2
60°	3196.8	2151.5	239.6	113.0	109.3	106.8	101.8	99.3	88.1	73.2	72.0
62.5°	2019.9	1237.8	152.7	99.3	95.6	91.9	85.7	83.2	73.2	58.4	54.6
65°	860.4	512.7	103.0	88.1	81.9	75.7	70.8	67.0	58.4	43.5	42.2
67.5°	223.5	182.5	85.7	77.0	68.3	59.6	55.9	49.7	39.7	29.8	28.6
70°	100.6	91.9	72.0	64.6	54.6	45.9	41.0	34.8	26.1	19.9	18.6
72.5°	59.6	58.4	54.6	48.4	41.0	34.8	29.8	23.6	17.4	11.2	11.2
75°	37.2	36.0	37.2	33.5	28.6	26.1	22.3	16.1	9.9	5.0	5.0
77.5°	22.3	22.3	22.3	21.1	19.9	19.9	16.1	9.9	5.0	1.2	1.2
80°	17.4	17.4	18.6	17.4	17.4	17.4	13.7	7.4	2.5	0.0	0.0
82.5°	17.4	18.6	21.1	19.9	17.4	14.9	12.4	7.4	2.5	0.0	0.0
85°	5.0	3.7	6.2	8.7	12.4	11.2	8.7	6.2	2.5	0.0	0.0
87.5°	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	1.2	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)