

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: P527503

Luminaire Tested: **GALN-SA2C-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527503
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-SA2C-735-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA 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: 7687 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

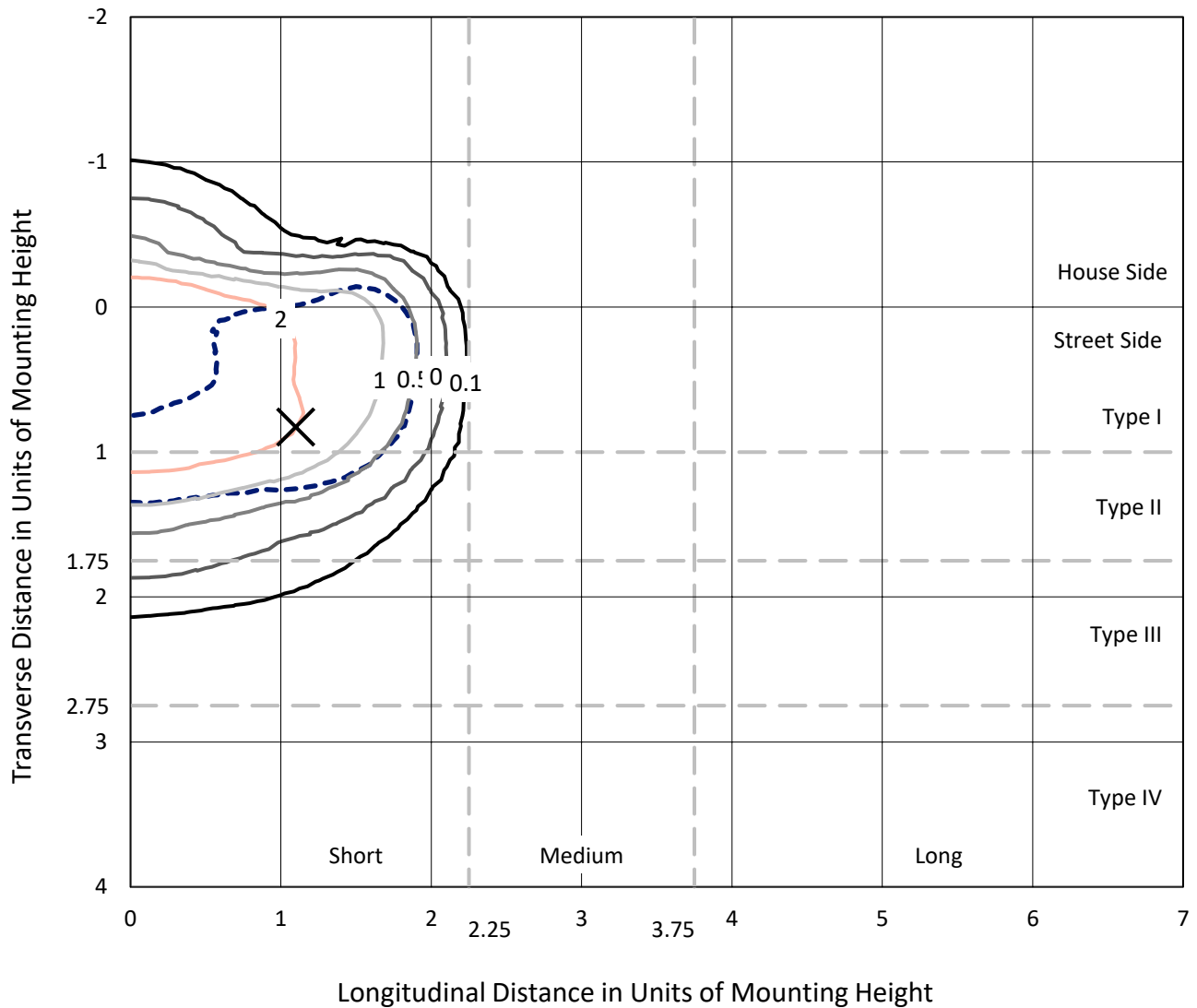
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527503
 CATALOG NUMBER: GALN-SA2C-735-U-SL2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

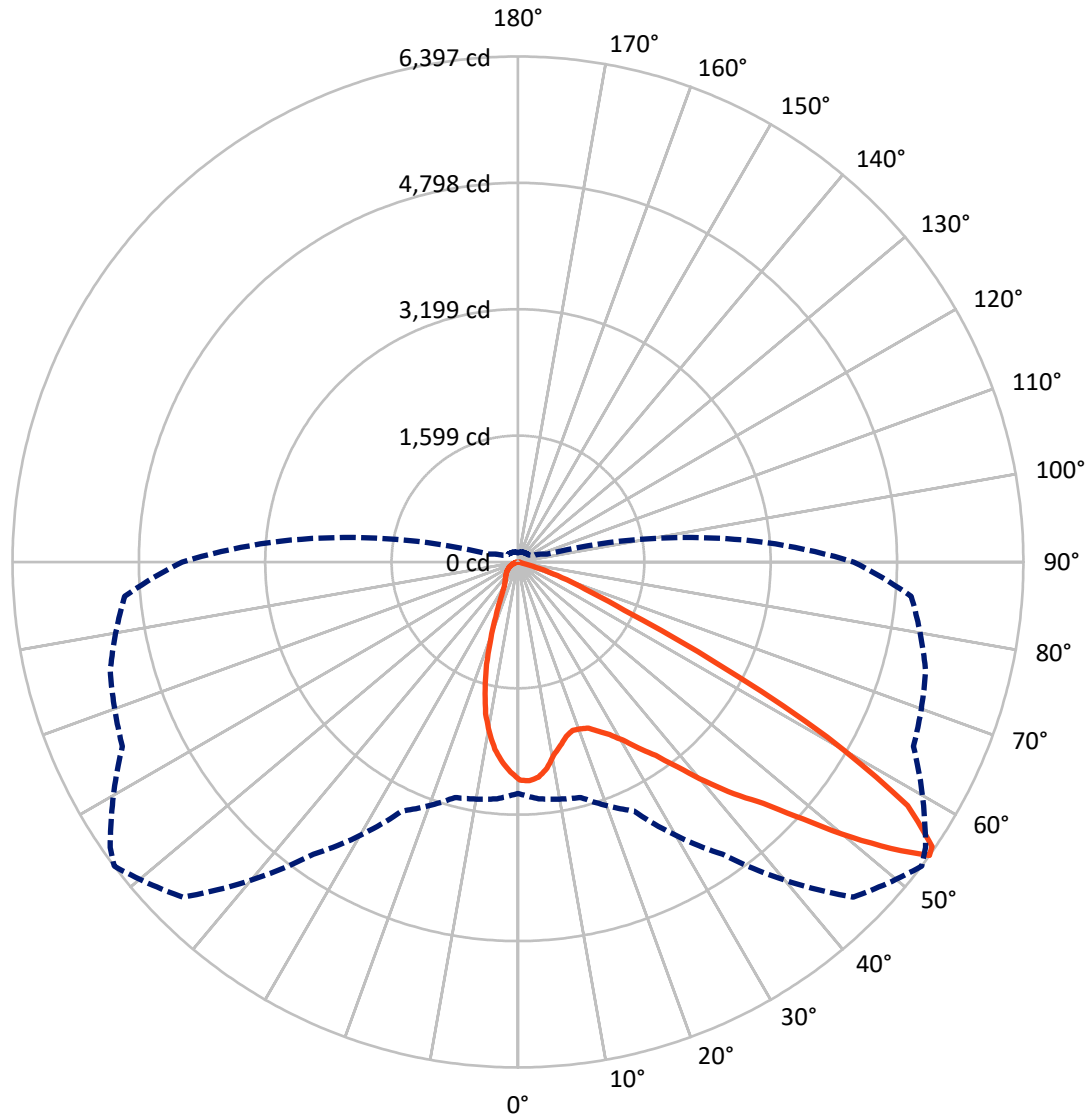
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type II - Short - N/A

REPORT NUMBER: P527503
CATALOG NUMBER: GALN-SA2C-735-U-SL2-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

REPORT NUMBER: P527503
 CATALOG NUMBER: GALN-SA2C-735-U-SL2-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1271.8	0.0	1271.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	6415.2	0.0	6415.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	7687.0	0.0	7687.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.9	3.1
10°-20°	543.1	7.1
20°-30°	771.9	10.0
30°-40°	1191.2	15.5
40°-50°	1867.7	24.3
50°-60°	2169.6	28.2
60°-70°	819.8	10.7
70°-80°	78.0	1.0
80°-90°	8.8	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°	7687.0	100.0
0°-180°	7687.0	100.0

Coefficient of Utilization

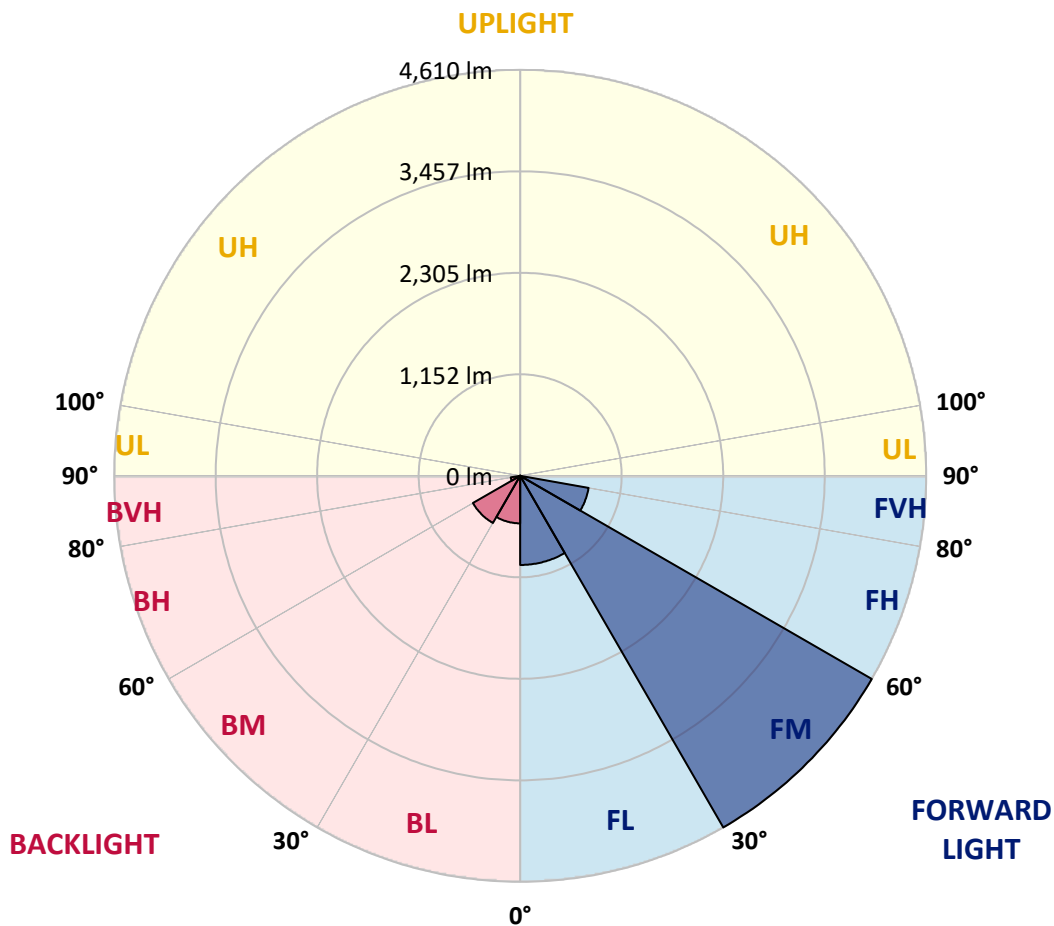


REPORT NUMBER: P527503
 CATALOG NUMBER: GALN-SA2C-735-U-SL2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1012.2	13.2			
FM (30°-60°)	4609.7	60.0			
FH (60°-80°)	788.8	10.3			G1/1800
FVH (80°-90°)	4.5	0.1			G0/10
BL (0°-30°)	539.7	7.0	B2/1000		
BM (30°-60°)	618.9	8.1	B1/1000		
BH (60°-80°)	109.0	1.4	B0/110		G0/110
BVH (80°-90°)	4.2	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





REPORT NUMBER: P527503

CATALOG NUMBER: GALN-SA2C-735-U-SL2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2761.0	2761.0	2761.0	2761.0	2761.0	2761.0	2761.0	2761.0	2761.0	2761.0	2761.0
2.5°	2746.7	2722.4	2746.7	2749.6	2766.8	2782.5	2772.5	2795.4	2782.5	2768.2	2763.9
5°	2524.7	2557.7	2559.1	2610.7	2599.2	2693.7	2735.3	2723.8	2794.0	2789.7	2779.7
7.5°	2325.7	2312.8	2330.0	2390.1	2466.0	2574.9	2635.0	2633.6	2733.8	2805.4	2798.3
10°	2141.0	2139.5	2175.3	2222.6	2287.0	2401.6	2484.7	2526.2	2682.3	2791.1	2806.9
12.5°	2016.4	2010.6	2049.3	2088.0	2189.6	2278.4	2384.4	2404.5	2583.5	2741.0	2766.8
15°	1934.7	1947.6	1950.5	2025.0	2089.4	2206.8	2289.9	2331.4	2537.6	2700.9	2799.7
17.5°	1920.4	1937.6	1939.0	2000.6	2069.3	2168.2	2241.2	2297.0	2499.0	2720.9	2801.1
20°	1949.1	1939.0	1947.6	1986.3	2053.6	2148.1	2254.1	2272.7	2486.1	2731.0	2816.9
22.5°	2030.7	2027.8	2006.3	2037.8	2085.1	2183.9	2284.2	2312.8	2523.3	2782.5	2829.8
25°	2120.9	2136.7	2116.6	2112.3	2145.2	2242.6	2375.8	2413.0	2647.9	2875.6	2869.9
27.5°	2289.9	2274.1	2274.1	2254.1	2245.5	2292.8	2474.6	2536.2	2786.8	2995.9	2915.7
30°	2451.7	2468.9	2456.0	2463.2	2405.9	2401.6	2615.0	2690.9	3033.1	3179.2	3013.1
32.5°	2708.1	2685.1	2706.6	2688.0	2612.1	2534.8	2805.4	2884.2	3331.0	3389.7	3159.2
35°	2921.4	2911.4	3003.1	3000.2	2877.0	2801.1	3007.4	3124.8	3538.7	3641.8	3331.0
37.5°	3225.0	3206.4	3311.0	3361.1	3250.8	3137.7	3296.6	3432.7	3732.0	3843.7	3507.2
40°	3537.2	3584.5	3724.8	3807.9	3690.5	3540.1	3650.4	3691.9	3860.9	3975.4	3627.4
42.5°	3932.5	4001.2	4144.4	4216.0	4206.0	4042.7	4009.8	4008.4	3954.0	3938.2	3716.2
45°	4312.0	4286.2	4506.7	4662.8	4788.9	4741.6	4356.4	4313.4	4101.5	3994.1	3739.1
47.5°	4478.1	4469.5	4619.9	4897.7	5327.3	5386.0	4860.5	4694.3	4350.6	4228.9	3863.7
50°	4263.3	4307.7	4456.6	4764.5	5423.3	5871.5	5479.1	5255.7	4641.4	4515.3	4158.7
52.5°	3561.6	3591.6	3733.4	4124.4	5096.8	6157.9	6072.0	5943.1	5175.5	4966.4	4672.9
54°	2928.6	3008.8	3086.1	3478.5	4515.3	5999.0	6397.1	6298.3	5523.5	5341.6	4996.5
55°	2550.5	2597.8	2653.6	3044.6	4112.9	5729.7	6359.8	6368.4	5756.9	5459.1	5214.2
57.5°	1863.1	1896.1	1838.8	2012.1	2824.1	4652.8	5817.1	6049.1	6072.0	5635.2	5347.4
60°	1423.5	1437.8	1373.4	1400.6	1755.7	3193.5	4499.6	4778.8	5477.7	4924.9	4529.7
62.5°	1104.1	1107.0	1105.6	1152.8	1210.1	1878.9	2814.0	3061.8	3776.4	3497.1	3076.1
65°	813.4	800.5	823.4	966.7	1032.5	1181.5	1482.2	1662.6	2052.2	1732.8	1238.7
67.5°	527.0	531.3	554.2	718.9	885.0	906.5	912.2	897.9	899.3	495.5	310.8
70°	316.5	323.6	316.5	406.7	633.0	650.2	594.3	580.0	452.5	117.4	116.0
72.5°	187.6	177.6	159.0	174.7	263.5	315.1	283.6	282.1	177.6	68.7	68.7
75°	78.8	71.6	58.7	53.0	70.2	67.3	67.3	60.1	47.3	45.8	43.0
77.5°	15.8	15.8	11.5	12.9	17.2	20.0	24.3	24.3	28.6	28.6	27.2
80°	0.0	1.4	4.3	8.6	12.9	18.6	21.5	21.5	24.3	24.3	20.0
82.5°	0.0	1.4	4.3	8.6	11.5	17.2	21.5	21.5	24.3	25.8	21.5
85°	0.0	1.4	4.3	7.2	11.5	14.3	14.3	12.9	10.0	8.6	5.7
87.5°	0.0	0.0	1.4	2.9	1.4	2.9	2.9	2.9	2.9	2.9	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P527503

CATALOG NUMBER: GALN-SA2C-735-U-SL2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2761.0	2761.0	2761.0	2761.0	2761.0	2761.0	2761.0	2761.0	2761.0	2761.0	2761.0
2.5°	2773.9	2772.5	2738.1	2682.3	2669.4	2622.1	2616.4	2587.8	2603.5	2550.5	2544.8
5°	2751.0	2733.8	2692.3	2656.5	2552.0	2477.5	2418.8	2347.2	2305.6	2312.8	2285.6
7.5°	2784.0	2739.6	2666.5	2541.9	2414.5	2284.2	2214.0	2067.9	2014.9	1936.2	1924.7
10°	2749.6	2716.6	2603.5	2397.3	2221.1	2033.5	1868.9	1707.0	1583.9	1530.9	1519.4
12.5°	2746.7	2689.4	2500.4	2271.3	2016.4	1747.1	1508.0	1306.1	1184.3	1115.6	1099.8
15°	2702.3	2633.6	2384.4	2076.5	1724.2	1389.1	1128.5	933.7	840.6	800.5	812.0
17.5°	2706.6	2603.5	2268.4	1870.3	1436.4	1019.6	770.5	670.2	645.9	655.9	655.9
20°	2702.3	2536.2	2128.1	1632.6	1099.8	707.4	565.7	529.9	545.6	577.1	570.0
22.5°	2679.4	2504.7	1999.2	1382.0	809.1	524.1	454.0	455.4	479.7	518.4	527.0
25°	2696.6	2434.5	1835.9	1128.5	590.0	418.2	393.8	403.8	429.6	458.3	464.0
27.5°	2683.7	2384.4	1665.5	876.4	431.1	359.5	358.0	369.5	380.9	402.4	402.4
30°	2698.0	2338.6	1498.0	651.6	355.2	329.4	323.6	332.2	343.7	348.0	346.6
32.5°	2751.0	2304.2	1304.6	486.9	313.6	300.7	300.7	300.7	299.3	305.0	306.5
35°	2867.0	2309.9	1134.2	376.6	286.4	276.4	272.1	266.4	263.5	266.4	267.8
37.5°	2993.0	2307.1	958.1	320.8	266.4	257.8	247.7	239.2	237.7	240.6	236.3
40°	3048.9	2334.3	794.8	287.8	247.7	237.7	222.0	214.8	216.2	219.1	216.2
42.5°	3124.8	2342.9	688.8	262.1	230.6	214.8	204.8	196.2	194.8	199.1	197.6
45°	3123.4	2294.2	577.1	247.7	214.8	197.6	184.7	177.6	177.6	180.4	181.9
47.5°	3215.0	2287.0	495.5	234.9	203.4	186.2	170.4	164.7	163.3	163.3	160.4
50°	3428.4	2387.3	432.5	220.5	189.0	173.3	160.4	153.2	147.5	144.6	143.2
52.5°	3845.1	2699.5	383.8	203.4	173.3	160.4	148.9	143.2	136.0	128.9	127.5
54°	4249.0	3021.7	380.9	189.0	160.4	151.8	141.8	138.9	130.3	120.3	117.4
55°	4430.8	3209.3	391.0	177.6	151.8	146.1	137.5	134.6	126.0	114.6	113.1
57.5°	4581.2	3282.3	385.2	147.5	137.5	136.0	128.9	124.6	114.6	98.8	95.9
60°	3687.6	2481.8	276.4	130.3	126.0	123.2	117.4	114.6	101.7	84.5	83.1
62.5°	2330.0	1427.8	176.1	114.6	110.3	106.0	98.8	95.9	84.5	67.3	63.0
65°	992.4	591.4	118.9	101.7	94.5	87.4	81.6	77.3	67.3	50.1	48.7
67.5°	257.8	210.5	98.8	88.8	78.8	68.7	64.4	57.3	45.8	34.4	32.9
70°	116.0	106.0	83.1	74.5	63.0	53.0	47.3	40.1	30.1	22.9	21.5
72.5°	68.7	67.3	63.0	55.9	47.3	40.1	34.4	27.2	20.0	12.9	12.9
75°	43.0	41.5	43.0	38.7	32.9	30.1	25.8	18.6	11.5	5.7	5.7
77.5°	25.8	25.8	25.8	24.3	22.9	22.9	18.6	11.5	5.7	1.4	1.4
80°	20.0	20.0	21.5	20.0	20.0	20.0	15.8	8.6	2.9	0.0	0.0
82.5°	20.0	21.5	24.3	22.9	20.0	17.2	14.3	8.6	2.9	0.0	0.0
85°	5.7	4.3	7.2	10.0	14.3	12.9	10.0	7.2	2.9	0.0	0.0
87.5°	2.9	2.9	2.9	2.9	1.4	1.4	1.4	1.4	1.4	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)