

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: P651235

Luminaire Tested: **GALN-SA2D-840-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651235
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-840-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10822.8 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

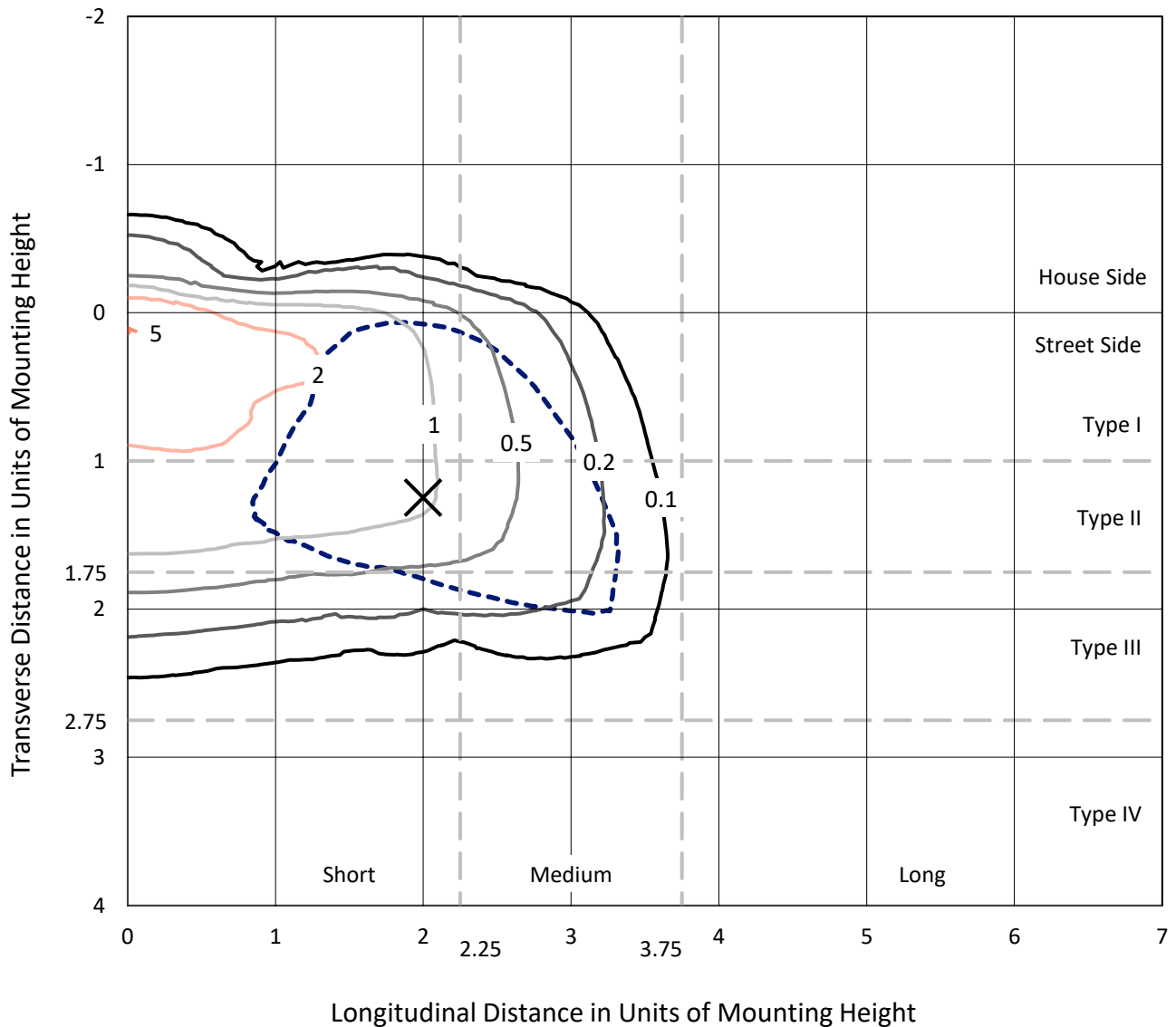
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

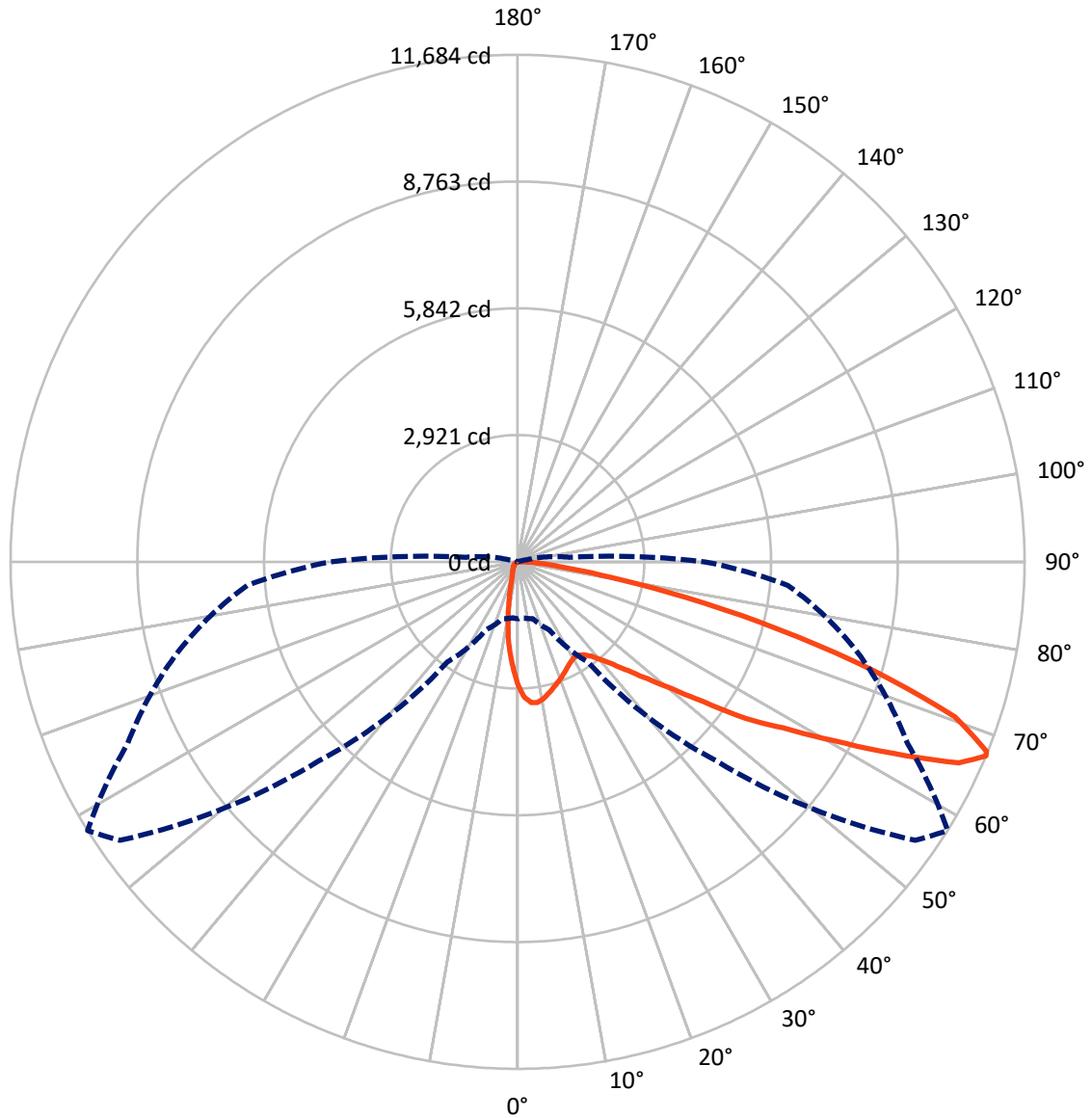
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	781.1	0.0	781.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	10041.8	0.0	10041.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	10822.8	0.0	10822.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.8	2.2
10°-20°	502.8	4.6
20°-30°	681.4	6.3
30°-40°	945.0	8.7
40°-50°	1507.2	13.9
50°-60°	2605.3	24.1
60°-70°	2976.1	27.5
70°-80°	1240.7	11.5
80°-90°	131.6	1.2
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°	10822.8	100.0
0°-180°	10822.8	100.0

Coefficient of Utilization



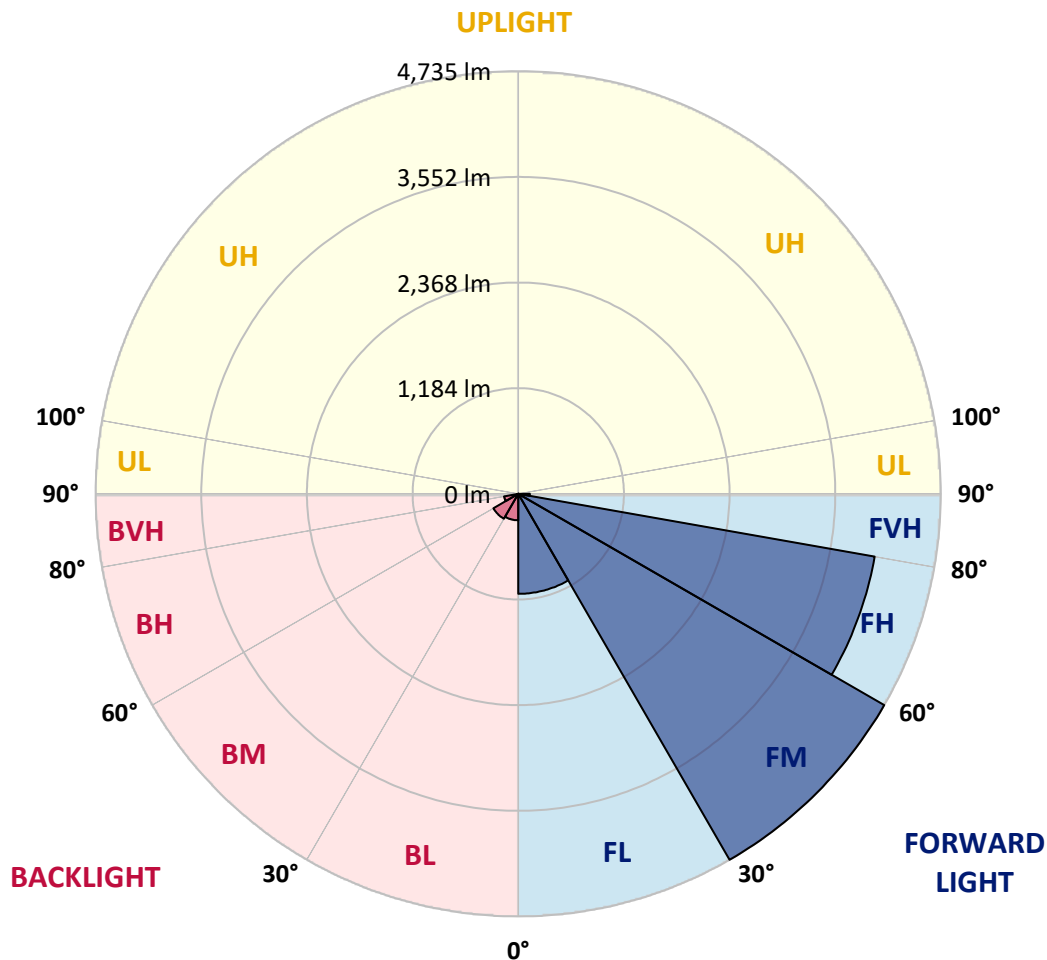
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1120.4	10.4			
FM (30°-60°)	4735.4	43.8			
FH (60°-80°)	4055.3	37.5			G2/5000
FVH (80°-90°)	130.6	1.2			G2/225
BL (0°-30°)	296.6	2.7	B1/500		
BM (30°-60°)	322.0	3.0	B1/1000		
BH (60°-80°)	161.5	1.5	B1/500		G1/500
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2869.1	2869.1	2869.1	2869.1	2869.1	2869.1	2869.1	2869.1	2869.1	2869.1	2869.1
2.5°	3329.7	3334.8	3316.0	3300.8	3261.7	3219.8	3164.1	3134.5	3083.9	2996.3	2899.4
5°	3407.8	3414.4	3411.4	3407.8	3392.7	3352.1	3281.2	3255.3	3180.7	3038.3	2863.3
7.5°	3234.2	3258.1	3261.1	3289.2	3316.0	3319.6	3292.9	3273.3	3204.6	3037.5	2798.8
10°	3004.3	3020.2	3043.3	3075.9	3140.2	3193.8	3219.8	3216.9	3177.1	3015.2	2723.7
12.5°	2772.1	2780.8	2816.3	2871.9	2950.7	3041.9	3111.3	3125.1	3125.7	2988.3	2660.8
15°	2572.5	2568.9	2596.3	2660.8	2771.4	2885.6	3010.0	3031.7	3066.5	2962.3	2602.1
17.5°	2401.8	2420.7	2424.9	2495.8	2597.8	2746.1	2904.5	2942.8	3012.2	2939.9	2553.7
20°	2296.3	2306.4	2315.8	2355.6	2447.4	2603.6	2805.4	2858.2	2961.6	2919.7	2499.5
22.5°	2265.1	2271.6	2263.7	2276.0	2341.1	2479.9	2697.6	2767.8	2913.1	2900.9	2455.4
25°	2289.0	2295.5	2276.7	2262.2	2284.7	2379.4	2593.5	2678.8	2874.1	2897.2	2422.1
27.5°	2346.9	2359.2	2333.1	2307.1	2294.1	2325.2	2511.7	2610.8	2847.4	2914.6	2406.9
30°	2437.3	2444.5	2424.9	2393.1	2363.5	2332.4	2469.1	2563.9	2840.1	2955.1	2405.4
32.5°	2535.6	2550.8	2540.0	2519.0	2480.7	2406.9	2481.4	2565.3	2857.5	3013.6	2423.5
35°	2657.1	2674.5	2684.6	2680.3	2631.1	2539.2	2559.5	2630.4	2903.7	3121.5	2472.7
37.5°	2776.5	2791.6	2848.8	2868.3	2824.9	2738.1	2711.4	2758.4	3005.7	3262.5	2561.7
40°	2913.1	2933.4	3013.6	3088.2	3067.2	2976.0	2926.9	2966.0	3161.9	3475.1	2730.1
42.5°	3044.1	3080.2	3202.4	3334.1	3353.6	3251.6	3219.1	3232.1	3393.4	3781.1	2965.2
45°	3229.9	3263.9	3421.6	3600.2	3692.1	3612.5	3579.2	3577.1	3710.8	4211.3	3346.3
47.5°	3498.2	3528.6	3714.4	3891.0	4054.4	4065.2	4002.3	4024.0	4110.1	4714.7	3813.6
50°	3827.3	3898.9	4021.2	4204.8	4423.2	4599.7	4619.3	4590.3	4664.1	5297.6	4374.8
52.5°	4305.3	4332.8	4444.9	4596.1	4852.1	5151.5	5383.7	5343.9	5320.8	5853.0	4941.8
55°	4661.9	4698.8	4873.1	5080.6	5456.0	5850.9	6354.3	6368.0	6075.8	6386.8	5496.5
57.5°	4554.2	4610.5	4874.5	5291.8	6117.0	6838.8	7213.4	7222.8	6774.4	6905.4	6122.8
60°	4000.9	4027.6	4405.9	4962.7	6173.4	7909.2	8432.1	8356.2	7485.4	7485.4	6676.1
62.5°	2837.2	2879.2	3185.8	4005.2	5575.3	8280.9	9891.5	9734.6	8464.6	8040.1	7005.9
65°	1813.1	1772.7	1975.8	2528.4	4153.4	7732.0	11162.3	11171.7	9386.0	8262.2	6825.8
67°	1313.4	1297.5	1356.0	1728.5	2816.3	6499.6	11189.0	11684.4	9915.4	8121.8	6250.1
67.5°	1201.3	1213.6	1256.2	1559.3	2558.7	5914.5	11067.5	11654.1	10034.7	8037.2	6041.8
70°	910.6	889.5	935.9	1102.9	1534.0	3731.1	9520.5	10688.5	9886.5	7197.5	4827.5
72.5°	669.7	667.5	731.9	901.9	1181.0	1987.5	7146.9	8570.2	8077.0	5480.6	3039.7
75°	452.0	472.3	575.0	753.6	1070.3	1288.7	4872.3	6217.6	5607.2	3112.0	1242.5
77.5°	257.4	258.9	370.3	605.4	961.2	1037.1	2887.2	3961.1	2968.1	1034.9	368.9
80°	111.3	122.2	183.7	439.8	797.0	918.5	1655.4	2176.9	1200.5	219.2	119.3
82.5°	41.2	48.4	81.0	270.5	581.5	756.5	1000.2	1039.3	407.2	77.4	74.5
85°	0.0	1.4	29.7	126.6	303.0	337.7	668.3	616.2	180.1	36.9	48.4
87.5°	0.0	0.0	0.0	13.0	39.8	125.8	207.6	231.4	43.4	13.0	11.6
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°	2869.1	2869.1	2869.1	2869.1	2869.1	2869.1	2869.1	2869.1	2869.1	2869.1	2869.1
2.5°	2847.4	2800.4	2682.5	2564.5	2477.1	2404.0	2294.1	2234.0	2202.2	2155.2	2158.1
5°	2775.7	2680.3	2472.7	2257.9	2084.3	1915.1	1712.6	1630.9	1562.2	1523.1	1497.1
7.5°	2669.4	2528.4	2221.0	1934.6	1667.8	1371.9	1149.9	1001.6	901.9	865.0	829.6
10°	2553.0	2365.6	1965.8	1568.6	1198.4	893.1	705.2	569.2	520.7	475.9	480.2
12.5°	2445.2	2217.4	1731.4	1238.1	839.7	567.8	442.6	386.9	371.0	365.9	365.9
15°	2357.0	2075.7	1479.7	930.8	575.7	407.9	354.4	339.2	333.4	331.9	331.9
17.5°	2263.0	1941.1	1252.6	687.8	418.7	341.4	323.3	313.2	311.0	309.6	309.6
20°	2179.1	1805.9	1037.1	512.1	338.5	307.4	295.8	289.3	287.1	285.7	286.4
22.5°	2099.6	1685.9	834.6	386.9	298.0	279.9	268.3	261.8	257.4	253.8	254.6
25°	2028.7	1570.1	671.1	316.8	268.3	252.4	240.9	231.4	222.0	217.7	217.0
27.5°	1978.7	1468.9	522.8	271.2	241.5	224.2	209.7	198.1	185.9	179.4	177.9
30°	1937.5	1366.2	413.7	239.3	214.8	198.1	180.1	163.5	150.5	143.9	141.0
32.5°	1910.8	1268.6	326.1	213.4	192.3	172.2	151.9	135.2	120.8	114.3	112.9
35°	1906.4	1186.8	266.8	191.7	172.2	150.5	129.4	111.3	99.1	92.6	91.2
37.5°	1937.5	1123.9	223.5	174.3	155.5	131.6	108.5	91.8	81.0	75.9	75.2
40°	2020.7	1084.1	193.9	159.9	140.3	114.3	92.6	78.1	67.3	62.2	62.2
42.5°	2179.1	1085.6	174.3	146.1	125.1	97.6	78.8	65.1	55.7	51.4	49.9
45°	2426.5	1134.8	157.7	132.4	110.7	84.6	67.3	53.5	44.2	40.5	40.5
47.5°	2757.6	1232.4	143.2	118.6	97.6	72.3	57.1	43.4	35.4	31.8	31.8
50°	3190.8	1389.3	130.9	107.1	86.8	62.2	46.3	35.4	27.5	24.6	23.9
52.5°	3643.6	1583.1	116.5	96.9	74.5	52.8	37.6	27.5	20.9	18.8	18.1
55°	4143.4	1772.7	102.7	86.8	60.7	44.2	29.7	21.7	15.2	13.0	13.0
57.5°	4647.5	1958.5	86.0	72.3	47.8	32.5	23.1	15.9	10.1	8.0	8.0
60°	5074.2	2018.5	73.1	58.6	36.2	23.1	16.7	10.1	5.8	3.6	3.6
62.5°	5132.7	1816.1	61.5	44.8	26.1	15.9	8.7	5.8	2.2	1.4	1.4
65°	4814.5	1475.4	51.4	34.0	17.3	8.0	3.6	2.2	0.8	0.0	0.0
67°	4314.0	1196.2	42.0	25.3	12.3	5.0	2.2	0.8	0.0	0.0	0.0
67.5°	4186.0	1140.6	40.5	23.9	10.8	4.4	1.4	0.8	0.0	0.0	0.0
70°	3284.9	854.1	28.9	14.5	6.5	2.9	0.0	0.0	0.0	0.0	0.0
72.5°	2041.7	483.2	20.9	8.7	4.4	1.4	0.0	0.0	0.0	0.0	0.0
75°	771.7	169.2	14.5	5.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	240.1	64.3	8.7	4.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	81.0	24.6	5.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	49.9	10.1	3.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.1	4.4	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.8	1.4	0.8	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)