

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: P458780

Luminaire Tested: **GALN-SA3B-735-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458780
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12950 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

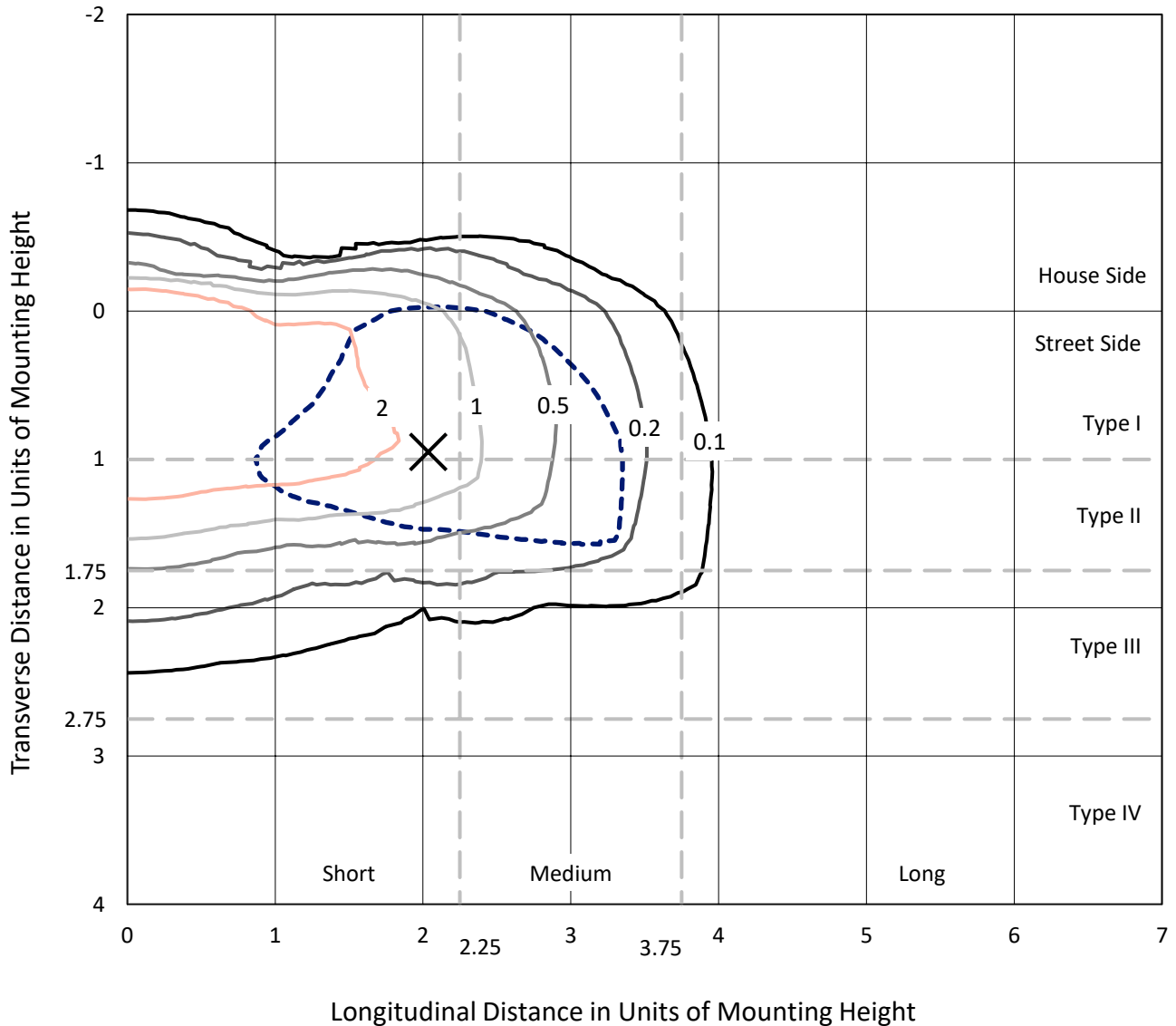
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

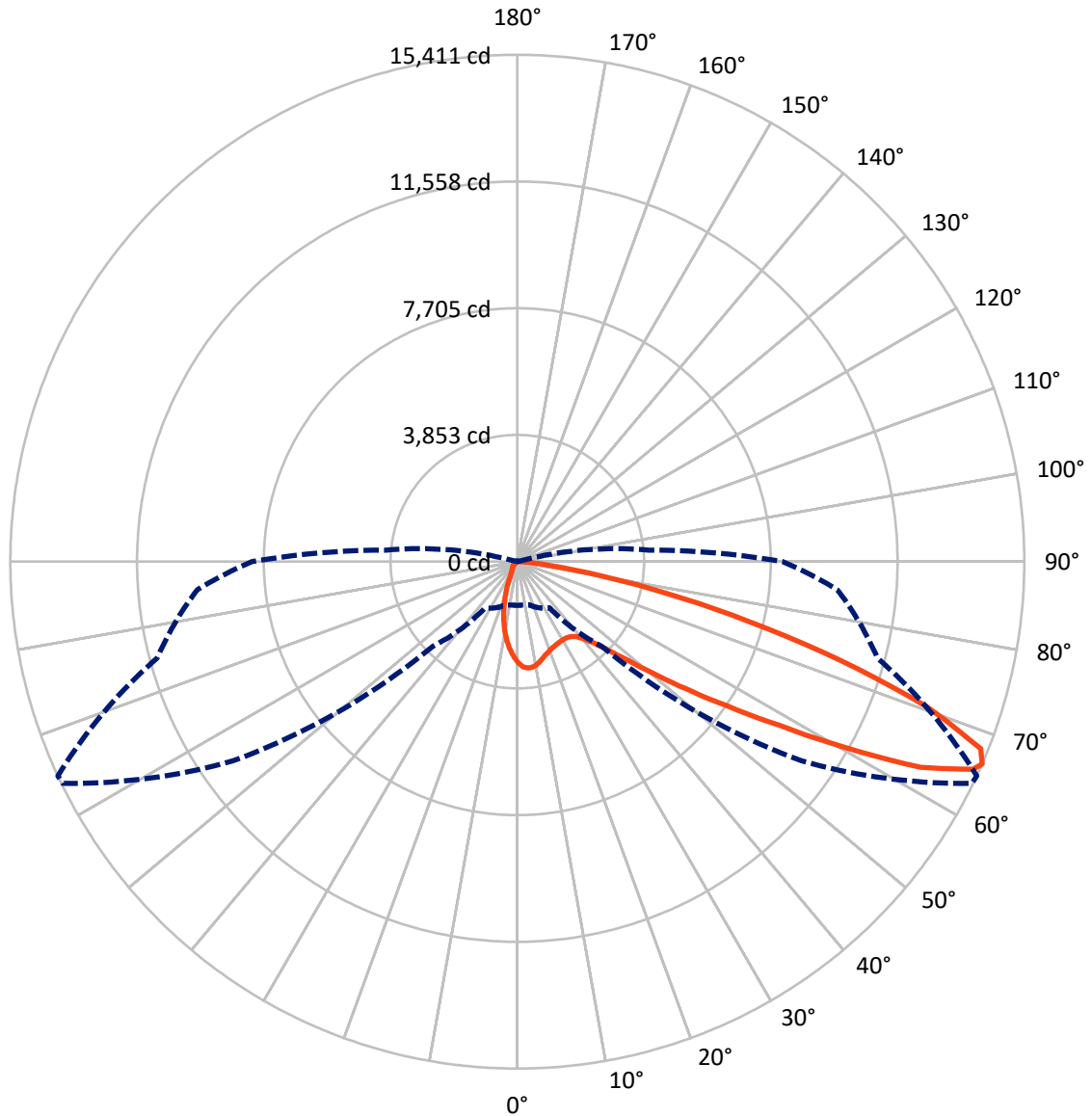
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1339.2	0.0	1339.2
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	11610.8	0.0	11610.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	12950.0	0.0	12950.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.2	1.9
10°-20°	547.2	4.2
20°-30°	783.9	6.1
30°-40°	1145.0	8.8
40°-50°	1919.9	14.8
50°-60°	3204.0	24.7
60°-70°	3400.9	26.3
70°-80°	1540.3	11.9
80°-90°	157.6	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°	12950.0	100.0
0°-180°	12950.0	100.0

Coefficient of Utilization



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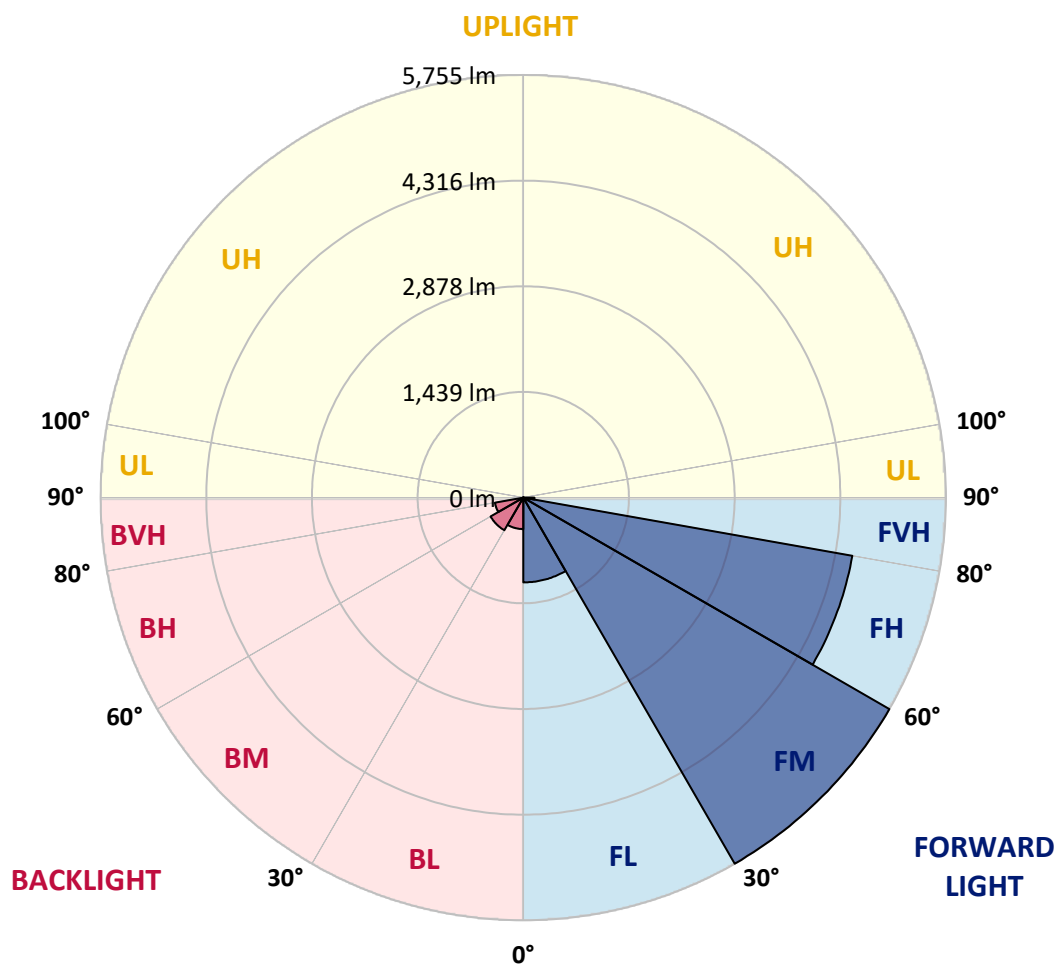
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1153.9	8.9			
FM (30°-60°)	5755.3	44.4			
FH (60°-80°)	4549.0	35.1			G2/5000
FVH (80°-90°)	152.6	1.2			G2/225
BL (0°-30°)	428.4	3.3	B1/500		
BM (30°-60°)	513.6	4.0	B1/1000		
BH (60°-80°)	392.2	3.0	B1/500		G1/500
BVH (80°-90°)	5.0	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3070.9	3070.9	3070.9	3070.9	3070.9	3070.9	3070.9	3070.9	3070.9	3070.9	3070.9
2.5°	3236.2	3239.7	3244.1	3250.2	3254.6	3241.5	3223.1	3202.1	3197.7	3153.1	3098.9
5°	3063.1	3068.3	3106.8	3127.8	3175.0	3217.9	3245.0	3248.5	3246.7	3204.7	3118.2
7.5°	2816.4	2831.3	2868.9	2905.6	2994.0	3075.3	3171.5	3238.9	3243.2	3231.9	3124.3
10°	2616.1	2625.7	2645.0	2717.6	2791.0	2915.2	3049.9	3176.8	3187.3	3232.7	3119.0
12.5°	2459.5	2473.5	2497.1	2553.1	2641.5	2758.7	2911.7	3082.3	3104.2	3216.1	3104.2
15°	2350.2	2357.2	2380.8	2435.9	2521.6	2630.1	2784.9	2983.5	3002.7	3194.2	3101.5
17.5°	2298.6	2306.5	2323.1	2366.8	2437.7	2538.3	2689.6	2903.9	2928.4	3180.3	3111.2
20°	2312.6	2319.6	2320.5	2343.2	2391.3	2476.2	2619.6	2829.5	2861.0	3171.5	3126.9
22.5°	2392.2	2393.1	2382.6	2372.1	2388.7	2449.9	2576.7	2782.3	2814.6	3169.8	3145.3
25°	2511.1	2513.8	2496.3	2459.5	2426.3	2457.8	2567.1	2751.7	2780.5	3165.4	3156.6
27.5°	2675.6	2674.7	2669.5	2608.2	2513.8	2492.8	2575.0	2735.1	2759.5	3153.1	3161.0
30°	2905.6	2898.6	2887.2	2818.1	2673.8	2577.6	2608.2	2724.6	2747.3	3135.6	3149.6
32.5°	3132.1	3158.4	3156.6	3091.0	2910.9	2728.9	2677.3	2738.6	2755.2	3124.3	3133.0
35°	3396.3	3395.4	3462.8	3438.3	3227.5	2922.2	2795.4	2784.9	2798.0	3132.1	3125.2
37.5°	3641.2	3663.9	3768.9	3794.3	3601.8	3195.1	2962.5	2884.6	2889.0	3185.5	3144.4
40°	3946.5	3990.2	4146.8	4231.6	4061.9	3600.1	3209.1	3067.4	3068.3	3316.7	3217.0
42.5°	4340.1	4409.1	4555.2	4696.9	4605.9	4079.4	3579.1	3356.9	3355.2	3547.6	3383.2
45°	4818.5	4866.6	5032.8	5257.6	5199.8	4748.5	4117.9	3805.6	3782.9	3926.3	3677.9
47.5°	5231.3	5296.9	5465.7	5722.0	5984.4	5565.4	4761.6	4422.3	4407.4	4529.0	4183.5
50°	5411.5	5469.2	5646.8	6006.3	6642.1	6637.8	5720.3	5322.3	5296.9	5362.5	4965.4
52.5°	5213.8	5268.1	5447.4	5895.2	6951.8	7944.5	7109.2	6451.5	6420.9	6336.9	5899.6
55°	4536.8	4581.5	4846.5	5360.8	6832.8	8815.7	9023.0	7846.6	7727.6	7401.4	6957.0
57.5°	3612.3	3589.6	3754.0	4351.4	6134.8	9107.8	10987.4	9584.5	9372.0	8321.5	7851.8
60°	2503.3	2573.2	2639.7	3033.3	4612.9	8601.4	12209.3	11769.4	11489.5	9226.8	8709.0
62.5°	1840.3	1886.6	1930.4	2112.3	2900.4	6867.8	12425.4	14013.8	13765.4	10188.0	9526.8
65°	1455.4	1458.9	1476.4	1655.7	1911.1	4466.0	11387.2	15279.4	15215.5	11113.4	9858.3
66°	1326.0	1326.9	1354.0	1546.4	1715.2	3636.8	10555.4	15375.6	15410.6	11335.6	9761.2
67.5°	1158.9	1155.4	1194.8	1389.8	1562.1	2622.2	9066.7	14985.5	15192.8	11506.1	9412.2
70°	898.3	893.9	942.0	1165.9	1438.8	1749.3	6026.4	12867.1	13201.2	11157.1	8327.6
72.5°	598.3	601.8	684.0	920.1	1373.2	1540.3	3625.5	9788.3	10260.6	9213.6	6551.2
75°	349.0	355.1	448.7	684.0	1192.2	1468.6	2051.9	6979.8	7281.5	6362.3	4081.2
77.5°	182.8	185.4	251.0	451.3	914.0	1363.6	1367.1	4459.0	4600.7	3091.9	1615.5
80°	97.1	94.5	134.7	272.0	628.9	1197.4	1109.1	2360.7	2454.3	918.4	408.5
82.5°	36.7	40.2	71.7	178.4	371.7	859.8	955.1	1043.5	1011.1	202.0	171.4
85°	7.0	8.7	30.6	105.8	187.2	359.5	704.1	511.7	474.1	76.1	98.8
87.5°	0.9	1.7	8.7	25.4	27.1	121.6	208.2	141.7	122.5	28.0	41.1
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°	3070.9	3070.9	3070.9	3070.9	3070.9	3070.9	3070.9	3070.9	3070.9	3070.9	3070.9
2.5°	3072.7	3049.1	2970.3	2892.5	2812.9	2741.2	2692.2	2612.6	2592.5	2563.6	2547.0
5°	3066.5	3011.4	2860.1	2694.8	2540.9	2374.7	2247.9	2125.4	2059.8	2026.6	2014.3
7.5°	3049.1	2961.6	2725.4	2466.5	2219.9	1971.5	1755.4	1591.0	1485.2	1412.6	1363.6
10°	3014.1	2893.4	2568.9	2212.9	1840.3	1512.3	1238.5	1030.3	869.4	818.7	820.4
12.5°	2978.2	2817.3	2393.9	1931.2	1469.4	1055.7	765.3	600.9	523.9	498.6	493.3
15°	2945.0	2744.7	2222.5	1658.4	1094.2	684.0	493.3	435.6	414.6	410.2	409.3
17.5°	2927.5	2677.3	2039.7	1346.1	763.6	464.4	395.3	379.6	373.5	369.1	367.4
20°	2912.6	2618.7	1864.8	1054.0	522.2	380.5	354.2	339.4	328.9	324.5	321.9
22.5°	2902.1	2558.4	1683.7	816.1	399.7	337.6	314.0	294.8	279.9	274.6	271.1
25°	2886.4	2491.9	1500.9	596.5	336.7	300.0	272.9	250.2	230.9	221.3	219.5
27.5°	2863.6	2416.7	1300.6	441.7	300.9	266.8	233.5	205.5	186.3	175.8	176.7
30°	2826.9	2338.0	1100.3	350.7	272.0	232.7	196.8	169.7	151.3	143.4	142.6
32.5°	2783.2	2242.6	916.6	300.9	245.8	202.0	164.4	140.8	126.8	120.7	119.8
35°	2742.1	2146.4	729.5	270.3	218.7	174.1	138.2	118.1	107.6	102.3	103.2
37.5°	2719.3	2060.7	568.5	245.8	196.8	149.6	119.0	101.5	91.8	87.5	86.6
40°	2734.2	1990.7	452.2	223.9	172.3	128.6	102.3	87.5	77.8	71.7	71.7
42.5°	2804.2	1960.1	364.7	202.9	149.6	111.1	89.2	75.2	64.7	58.6	59.5
45°	3017.6	1992.5	305.3	183.7	128.6	96.2	77.0	62.1	52.5	48.1	47.2
47.5°	3371.8	2114.0	264.1	163.6	110.2	82.2	64.7	51.6	42.0	38.5	37.6
50°	3991.1	2365.1	233.5	143.4	93.6	70.0	53.4	41.1	33.2	29.7	29.7
52.5°	4843.0	2912.6	211.7	120.7	78.7	59.5	43.7	33.2	26.2	23.6	22.7
55°	5733.4	3489.9	200.3	101.5	65.6	49.0	35.0	26.2	20.1	17.5	16.6
57.5°	6589.7	3943.0	187.2	82.2	52.5	37.6	27.1	20.1	14.0	12.2	11.4
60°	7411.0	4309.4	159.2	65.6	41.1	27.1	20.1	14.0	9.6	7.9	7.9
62.5°	8145.7	4522.9	125.1	52.5	31.5	19.2	13.1	10.5	7.0	5.2	5.2
65°	8231.4	4245.6	94.5	40.2	22.7	12.2	7.9	7.9	5.2	3.5	3.5
66°	8059.1	4010.3	83.1	36.7	20.1	10.5	7.0	6.1	4.4	2.6	2.6
67.5°	7674.2	3608.8	71.7	31.5	16.6	7.9	5.2	5.2	3.5	1.7	1.7
70°	6630.8	2947.6	56.9	23.6	12.2	6.1	3.5	3.5	2.6	1.7	1.7
72.5°	5053.8	2200.6	46.4	17.5	8.7	4.4	2.6	2.6	2.6	1.7	1.7
75°	3048.2	1185.2	35.9	13.1	7.9	3.5	1.7	2.6	3.5	2.6	1.7
77.5°	1123.1	403.2	28.0	10.5	6.1	3.5	1.7	1.7	3.5	2.6	2.6
80°	275.5	105.0	20.1	8.7	6.1	3.5	1.7	1.7	3.5	3.5	3.5
82.5°	127.7	44.6	14.0	7.9	6.1	3.5	1.7	1.7	2.6	3.5	3.5
85°	73.5	21.0	11.4	8.7	6.1	3.5	1.7	1.7	2.6	3.5	3.5
87.5°	29.7	10.5	10.5	8.7	7.0	4.4	1.7	1.7	1.7	2.6	2.6
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)