

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: P455302

Luminaire Tested: **GALN-SA6C-727-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455302
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-SA6C-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1050mA 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: 28841 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

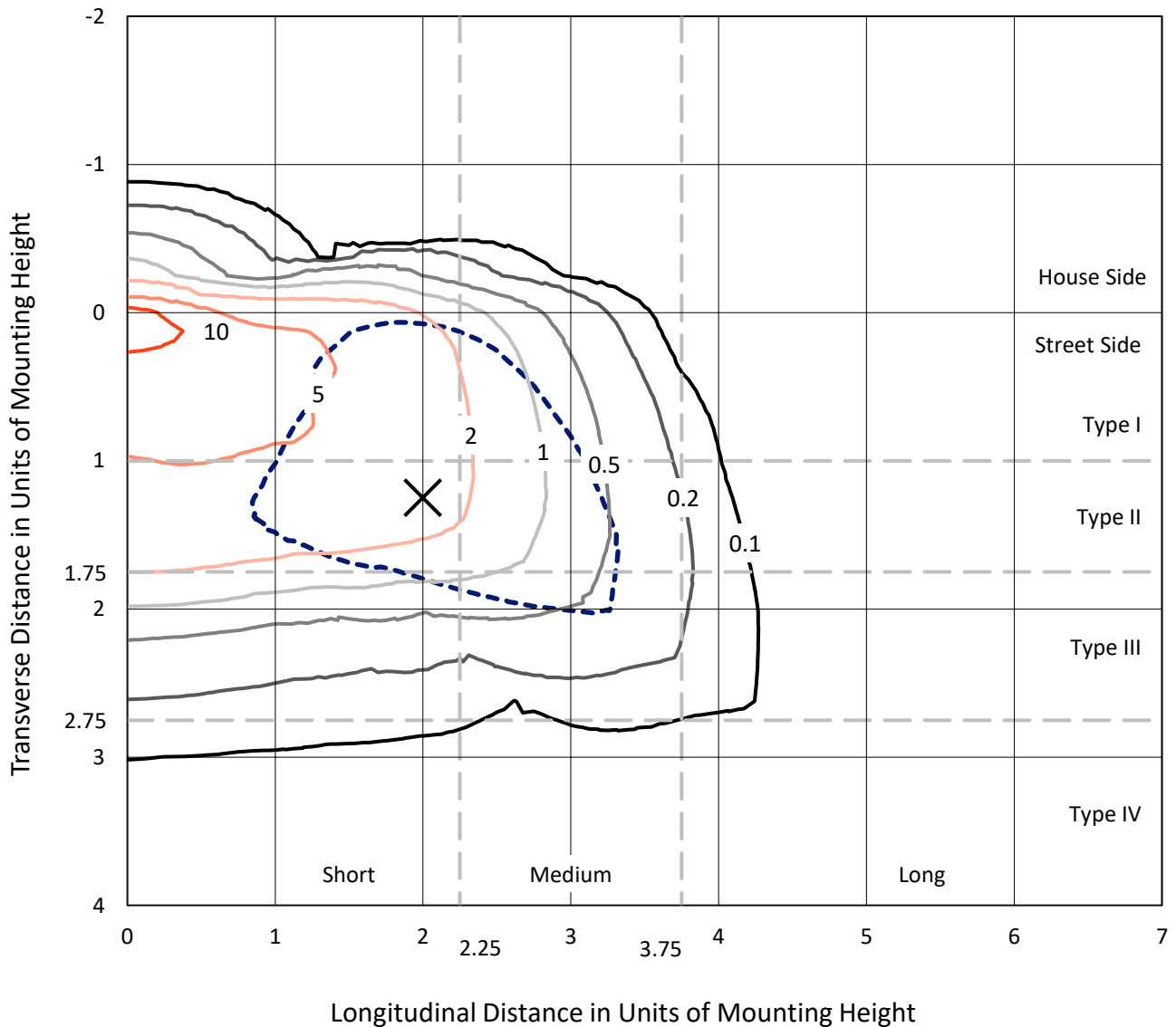
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

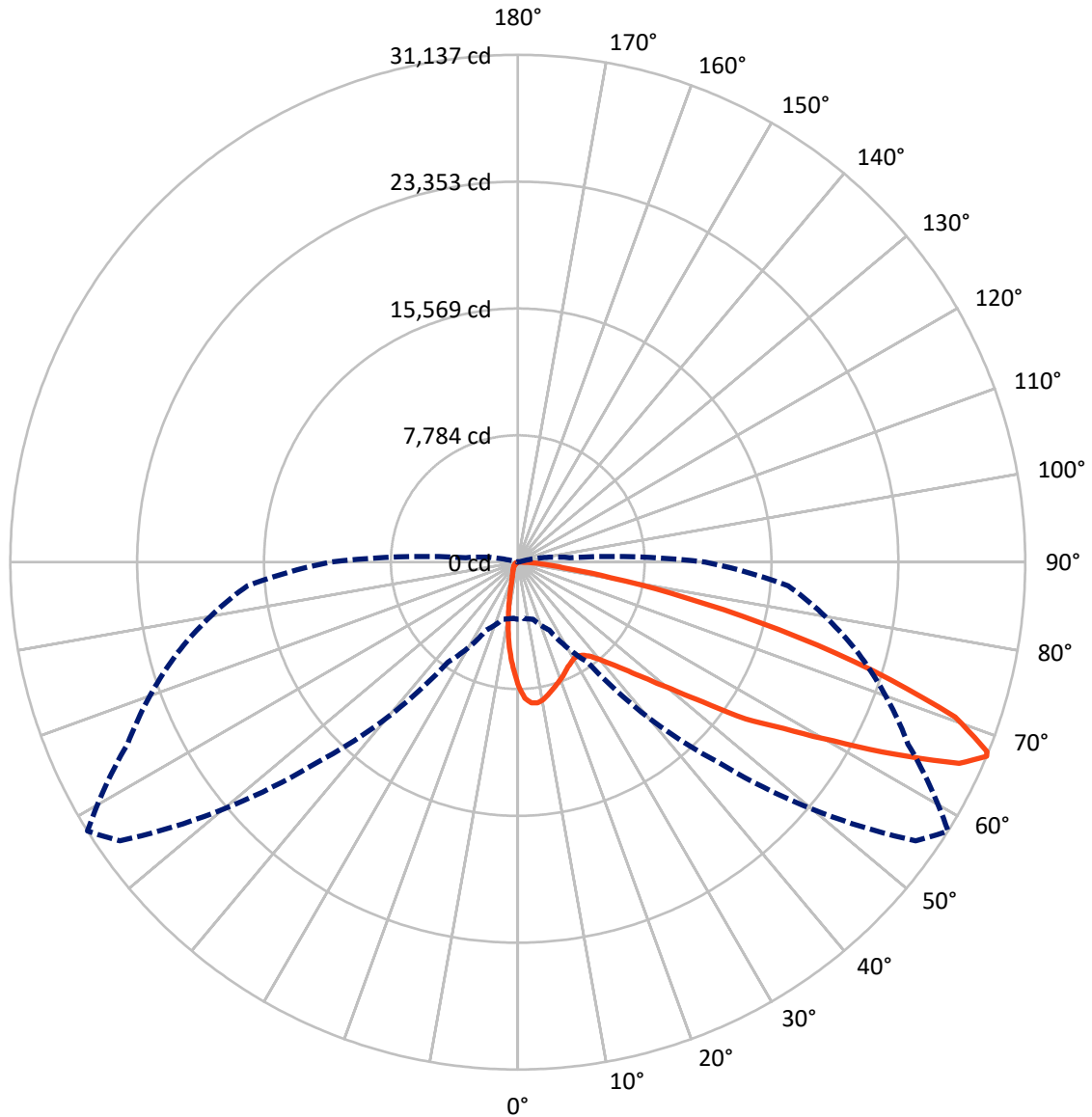
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 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	2081.3	0.0	2081.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	26759.7	0.0	26759.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	28841.0	0.0	28841.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	620.4	2.2
10°-20°	1339.9	4.6
20°-30°	1815.7	6.3
30°-40°	2518.3	8.7
40°-50°	4016.4	13.9
50°-60°	6942.7	24.1
60°-70°	7930.7	27.5
70°-80°	3306.4	11.5
80°-90°	350.6	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°	28841.0	100.0
0°-180°	28841.0	100.0

Coefficient of Utilization



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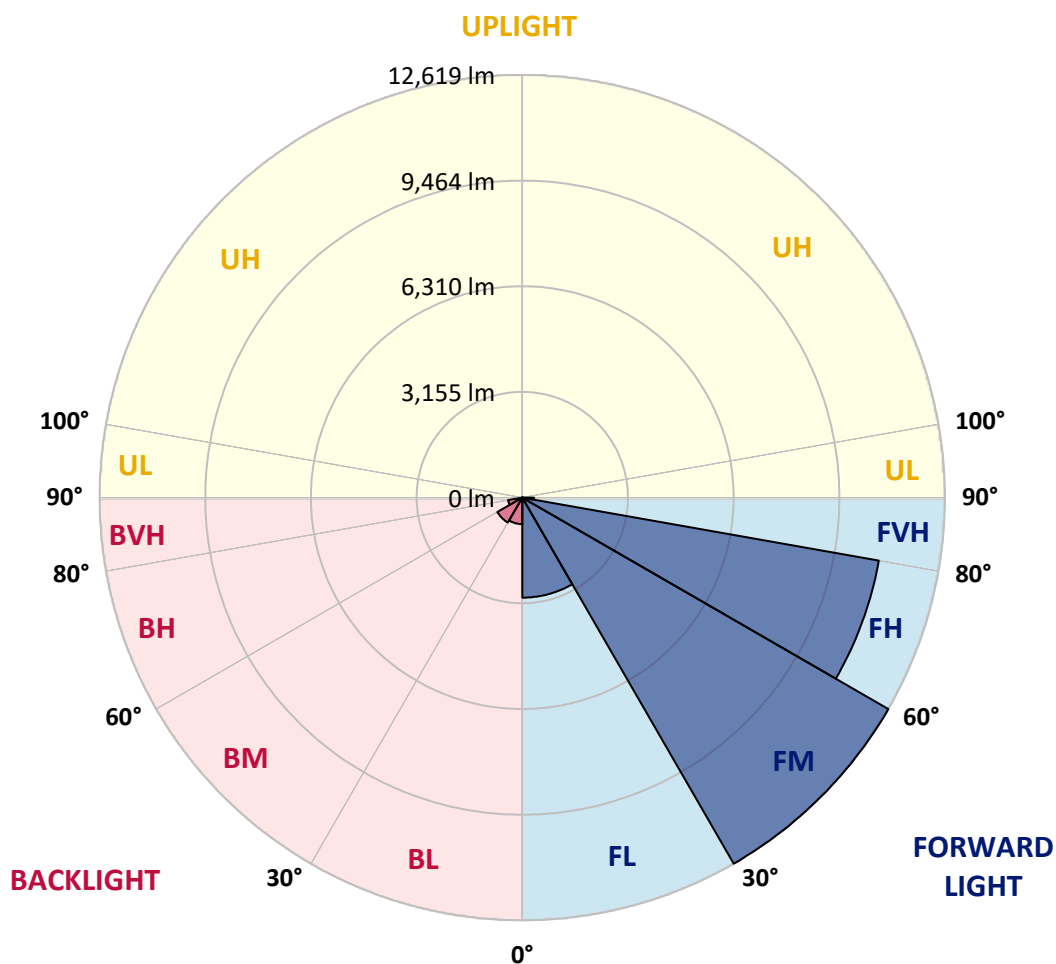
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2985.7	10.4			
FM (30°-60°)	12619.1	43.8			
FH (60°-80°)	10806.8	37.5			G4/12000
FVH (80°-90°)	348.0	1.2			G3/500
BL (0°-30°)	790.3	2.7	B2/1000		
BM (30°-60°)	858.2	3.0	B1/1000		
BH (60°-80°)	430.3	1.5	B1/500		G1/500
BVH (80°-90°)	2.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7645.5	7645.5	7645.5	7645.5	7645.5	7645.5	7645.5	7645.5	7645.5	7645.5	7645.5
2.5°	8873.2	8886.6	8836.5	8796.1	8692.0	8580.2	8431.8	8352.8	8217.9	7984.7	7726.4
5°	9081.3	9098.6	9090.9	9081.3	9040.8	8932.9	8744.0	8674.6	8476.1	8096.5	7630.1
7.5°	8618.8	8682.4	8690.1	8765.2	8836.5	8846.2	8774.9	8722.8	8539.7	8094.5	7458.5
10°	8005.9	8048.3	8110.0	8196.7	8368.2	8510.8	8580.2	8572.5	8466.5	8034.8	7258.1
12.5°	7387.2	7410.4	7504.8	7653.2	7863.3	8106.1	8291.1	8327.7	8329.7	7963.5	7090.4
15°	6855.3	6845.7	6918.9	7090.4	7385.3	7689.8	8021.3	8079.1	8171.6	7894.1	6934.3
17.5°	6400.5	6450.6	6462.1	6651.0	6922.8	7317.8	7739.9	7842.1	8027.1	7834.4	6805.2
20°	6119.1	6146.1	6171.1	6277.1	6521.9	6938.2	7475.9	7616.6	7892.2	7780.4	6660.6
22.5°	6036.2	6053.6	6032.4	6065.1	6238.6	6608.6	7188.7	7375.7	7763.0	7730.3	6543.1
25°	6099.8	6117.2	6067.0	6028.5	6088.2	6340.7	6911.2	7138.6	7659.0	7720.6	6454.4
27.5°	6254.0	6286.8	6217.4	6148.0	6113.3	6196.2	6693.4	6957.4	7587.7	7766.9	6414.0
30°	6494.9	6514.2	6462.1	6377.3	6298.3	6215.4	6579.7	6832.2	7568.4	7874.8	6410.1
32.5°	6757.0	6797.5	6768.6	6712.7	6610.5	6414.0	6612.5	6836.0	7614.6	8030.9	6458.3
35°	7080.8	7127.0	7154.0	7142.5	7011.4	6766.6	6820.6	7009.5	7738.0	8318.1	6589.3
37.5°	7398.8	7439.3	7591.5	7643.6	7527.9	7296.6	7225.3	7350.6	8009.7	8693.9	6826.4
40°	7763.0	7817.0	8030.9	8229.4	8173.6	7930.7	7799.7	7903.7	8426.0	9260.5	7275.4
42.5°	8111.9	8208.2	8534.0	8884.7	8936.8	8665.0	8578.3	8613.0	9042.8	10075.8	7901.8
45°	8607.2	8697.8	9117.9	9594.0	9838.7	9626.7	9538.1	9532.3	9888.8	11222.5	8917.5
47.5°	9322.2	9403.2	9898.5	10368.7	10804.3	10833.2	10665.5	10723.3	10952.7	12563.9	10162.5
50°	10199.1	10389.9	10715.6	11205.2	11787.2	12257.4	12309.5	12232.4	12429.0	14117.3	11658.1
52.5°	11473.0	11546.3	11845.0	12247.8	12930.1	13728.0	14346.6	14240.6	14178.9	15597.4	13169.0
55°	12423.2	12521.5	12986.0	13539.1	14539.3	15591.6	16933.0	16969.6	16191.0	17019.7	14647.3
57.5°	12136.0	12286.4	12989.8	14101.8	16300.9	18224.3	19222.6	19247.7	18052.7	18401.6	16316.3
60°	10661.7	10733.0	11740.9	13224.9	16451.2	21076.6	22470.1	22267.7	19947.3	19947.3	17790.6
62.5°	7560.7	7672.5	8489.6	10673.2	14857.3	22067.3	26359.3	25941.1	22556.8	21425.5	18669.5
65°	4831.7	4723.7	5265.3	6737.7	11068.3	20604.5	29745.5	29770.6	25012.1	22017.1	18189.6
67°	3499.9	3457.5	3613.6	4606.2	7504.8	17320.4	29816.8	31137.0	26422.9	21643.3	16655.5
67.5°	3201.2	3234.0	3347.7	4155.2	6818.7	15761.2	29493.0	31056.0	26740.9	21417.8	16100.4
70°	2426.4	2370.5	2493.9	2939.1	4087.7	9942.8	25370.6	28483.1	26345.8	19180.2	12864.5
72.5°	1784.7	1778.9	1950.4	2403.3	3147.2	5296.1	19045.3	22838.2	21523.8	14604.9	8100.3
75°	1204.5	1258.5	1532.2	2008.2	2852.4	3434.4	12984.0	16568.7	14942.1	8293.0	3311.1
77.5°	686.1	690.0	986.8	1613.1	2561.3	2763.7	7693.7	10555.7	7909.5	2757.9	982.9
80°	296.8	325.7	489.5	1171.8	2123.9	2447.6	4411.5	5801.1	3199.3	584.0	318.0
82.5°	109.9	129.1	215.9	720.8	1549.5	2015.9	2665.4	2769.5	1085.1	206.2	198.5
85°	0.0	3.9	79.0	337.3	807.5	900.0	1780.8	1642.0	479.9	98.3	129.1
87.5°	0.0	0.0	0.0	34.7	106.0	335.3	553.1	616.7	115.6	34.7	30.8
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°	7645.5	7645.5	7645.5	7645.5	7645.5	7645.5	7645.5	7645.5	7645.5	7645.5	7645.5
2.5°	7587.7	7462.4	7148.2	6834.1	6600.9	6406.2	6113.3	5953.3	5868.5	5743.3	5751.0
5°	7396.9	7142.5	6589.3	6016.9	5554.4	5103.4	4563.8	4346.0	4162.9	4058.8	3989.5
7.5°	7113.6	6737.7	5918.6	5155.5	4444.3	3656.0	3064.4	2669.3	2403.3	2305.0	2210.6
10°	6803.3	6304.1	5238.3	4180.3	3193.5	2380.2	1879.1	1516.8	1387.6	1268.1	1279.7
12.5°	6516.1	5909.0	4613.9	3299.5	2237.6	1512.9	1179.5	1031.1	988.7	975.2	975.2
15°	6281.0	5531.3	3943.2	2480.4	1534.1	1087.0	944.4	903.9	888.5	884.6	884.6
17.5°	6030.4	5172.8	3338.0	1832.8	1115.9	909.7	861.5	834.5	828.7	824.9	824.9
20°	5806.9	4812.4	2763.7	1364.5	902.0	819.1	788.3	770.9	765.1	761.3	763.2
22.5°	5594.9	4492.5	2224.1	1031.1	794.0	745.9	715.0	697.7	686.1	676.5	678.4
25°	5406.0	4184.1	1788.5	844.1	715.0	672.6	641.8	616.7	591.7	580.1	578.2
27.5°	5273.0	3914.3	1393.4	722.7	643.7	597.5	558.9	528.1	495.3	478.0	474.1
30°	5163.2	3640.6	1102.4	637.9	572.4	528.1	479.9	435.6	400.9	383.5	375.8
32.5°	5091.9	3380.4	869.2	568.5	512.7	458.7	404.7	360.4	321.9	304.5	300.7
35°	5080.3	3162.7	711.2	510.7	458.7	400.9	345.0	296.8	264.0	246.7	242.8
37.5°	5163.2	2995.0	595.5	464.5	414.4	350.8	289.1	244.8	215.9	202.4	200.4
40°	5384.8	2889.0	516.5	425.9	373.9	304.5	246.7	208.1	179.2	165.7	165.7
42.5°	5806.9	2892.8	464.5	389.3	333.4	260.2	210.1	173.5	148.4	136.8	133.0
45°	6466.0	3023.9	420.1	352.7	294.9	225.5	179.2	142.6	117.6	107.9	107.9
47.5°	7348.7	3284.1	381.6	316.1	260.2	192.7	152.3	115.6	94.4	84.8	84.8
50°	8503.1	3702.3	348.8	285.2	231.3	165.7	123.3	94.4	73.2	65.5	63.6
52.5°	9709.6	4218.8	310.3	258.3	198.5	140.7	100.2	73.2	55.9	50.1	48.2
55°	11041.3	4723.7	273.7	231.3	161.9	117.6	79.0	57.8	40.5	34.7	34.7
57.5°	12384.6	5219.1	229.3	192.7	127.2	86.7	61.7	42.4	27.0	21.2	21.2
60°	13521.7	5379.0	194.7	156.1	96.4	61.7	44.3	27.0	15.4	9.6	9.6
62.5°	13677.8	4839.4	163.8	119.5	69.4	42.4	23.1	15.4	5.8	3.9	3.9
65°	12829.8	3931.6	136.8	90.6	46.3	21.2	9.6	5.8	1.9	0.0	0.0
67°	11496.2	3187.7	111.8	67.5	32.8	13.5	5.8	1.9	0.0	0.0	0.0
67.5°	11155.0	3039.3	107.9	63.6	28.9	11.6	3.9	1.9	0.0	0.0	0.0
70°	8753.7	2276.1	77.1	38.5	17.3	7.7	0.0	0.0	0.0	0.0	0.0
72.5°	5440.7	1287.4	55.9	23.1	11.6	3.9	0.0	0.0	0.0	0.0	0.0
75°	2056.4	451.0	38.5	15.4	7.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	639.9	171.5	23.1	11.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	215.9	65.5	15.4	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	133.0	27.0	9.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	82.9	11.6	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.4	3.9	1.9	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)