

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: P454374

Luminaire Tested: **GALN-SA5C-727-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454374
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-SA5C-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 24357 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

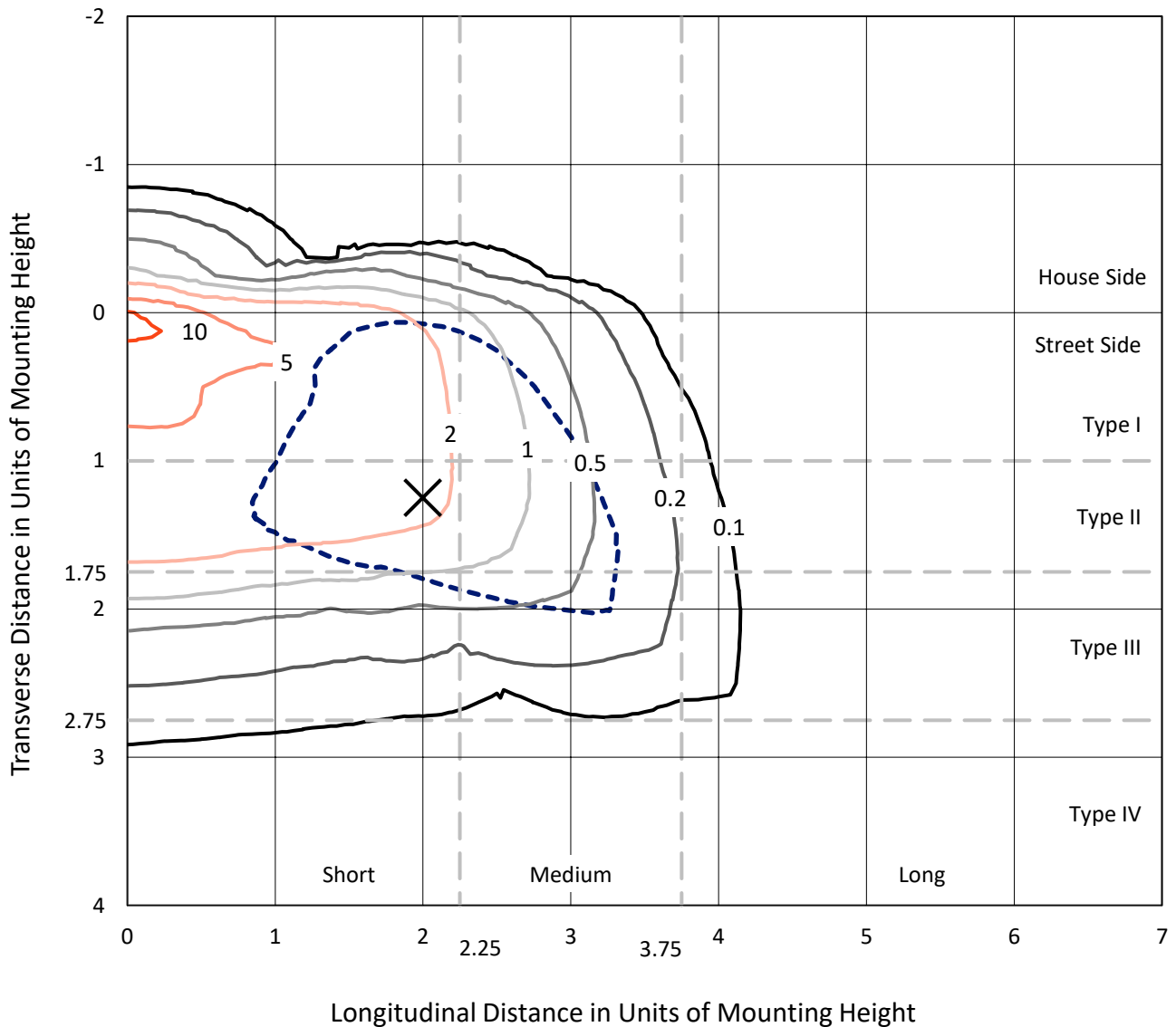
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

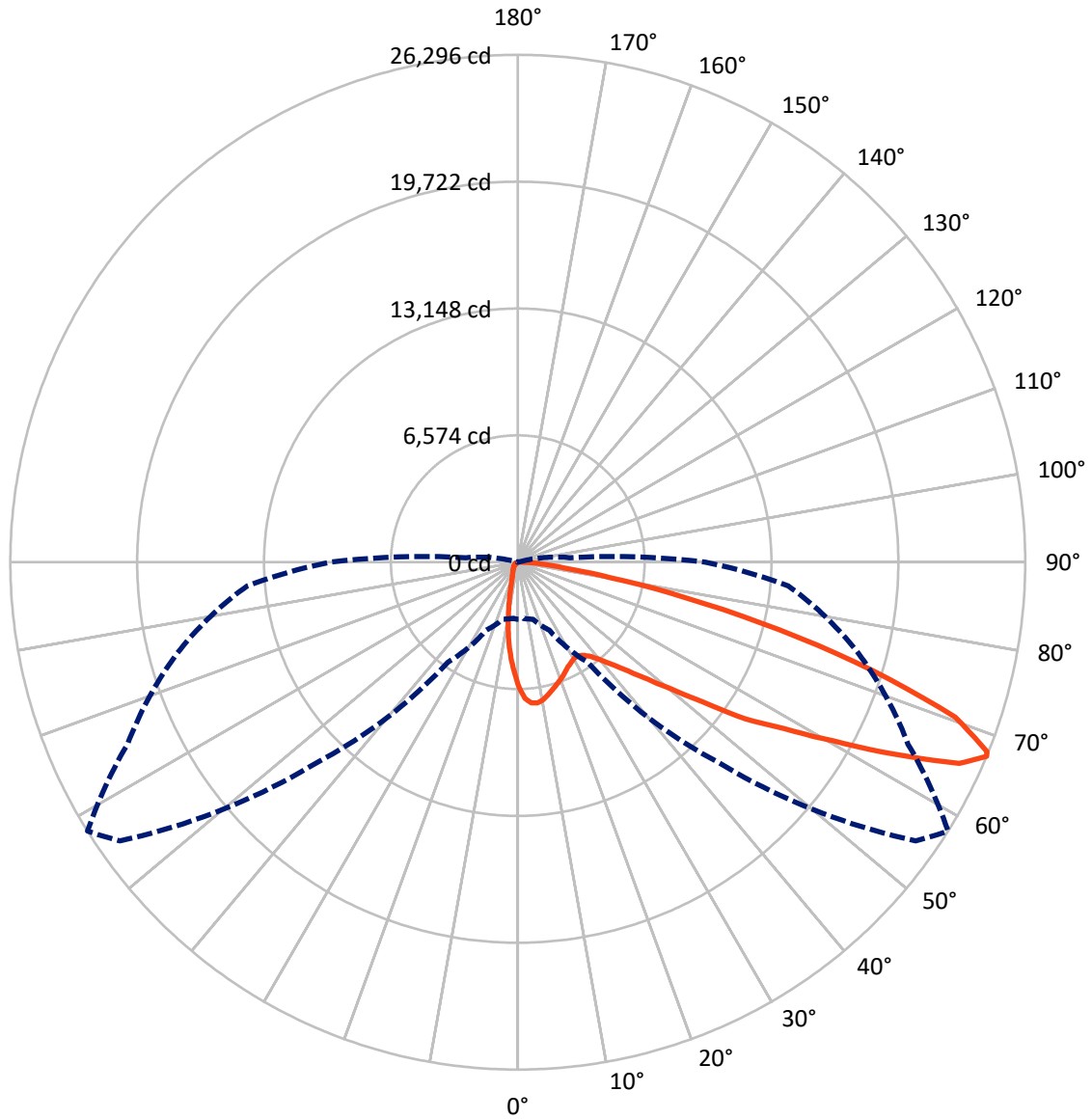
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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	1757.7	0.0	1757.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	22599.3	0.0	22599.3
	% Fixture	92.8	0.0	92.8
Total	Lumens	24357.0	0.0	24357.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.0	2.2
10°-20°	1131.6	4.6
20°-30°	1533.4	6.3
30°-40°	2126.8	8.7
40°-50°	3391.9	13.9
50°-60°	5863.3	24.1
60°-70°	6697.7	27.5
70°-80°	2792.3	11.5
80°-90°	296.1	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°	24357.0	100.0
0°-180°	24357.0	100.0

Coefficient of Utilization



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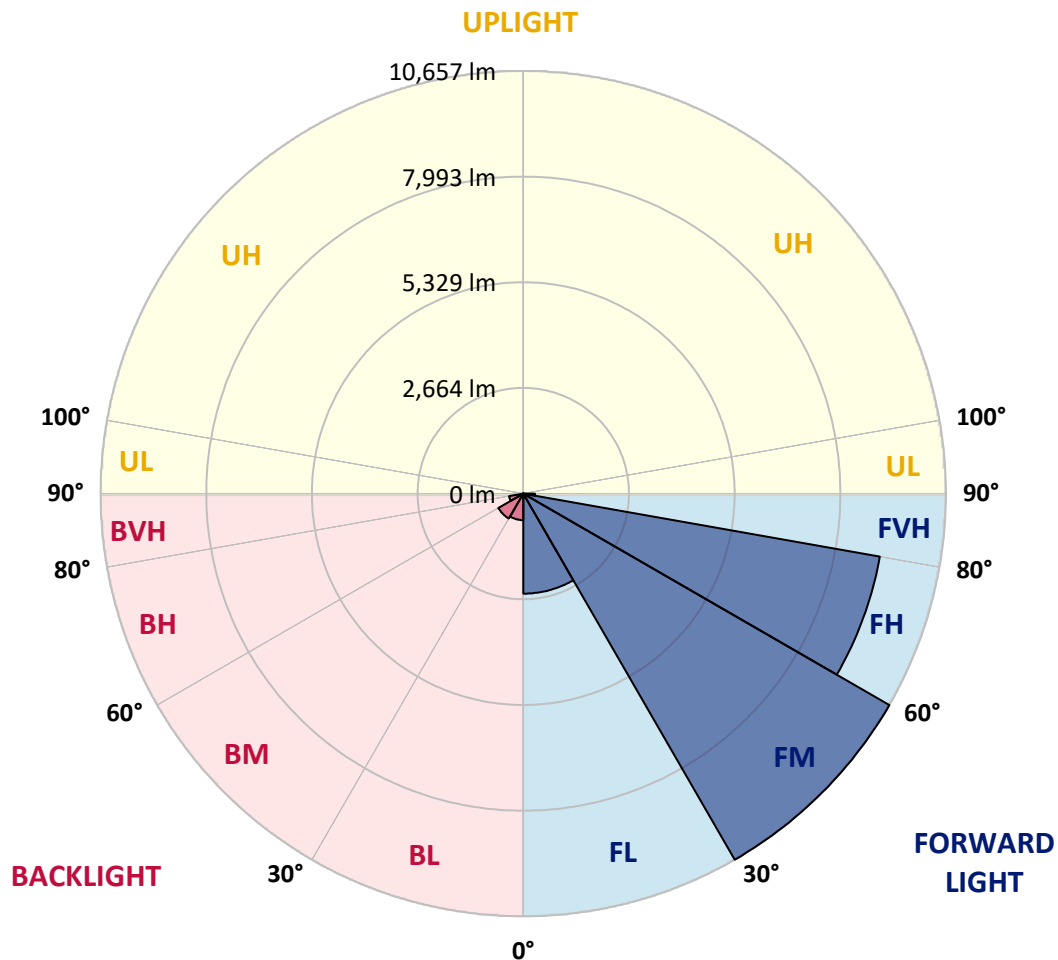
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2521.5	10.4			
FM (30°-60°)	10657.2	43.8			
FH (60°-80°)	9126.6	37.5			G4/12000
FVH (80°-90°)	293.9	1.2			G3/500
BL (0°-30°)	667.5	2.7	B2/1000		
BM (30°-60°)	724.8	3.0	B1/1000		
BH (60°-80°)	363.4	1.5	B1/500		G1/500
BVH (80°-90°)	2.1	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°	6456.8	6456.8	6456.8	6456.8	6456.8	6456.8	6456.8	6456.8	6456.8	6456.8	6456.8
2.5°	7493.6	7505.0	7462.7	7428.5	7340.6	7246.2	7120.9	7054.2	6940.2	6743.3	6525.2
5°	7669.4	7684.1	7677.5	7669.4	7635.2	7544.1	7384.6	7326.0	7158.3	6837.7	6443.8
7.5°	7278.8	7332.5	7339.0	7402.5	7462.7	7470.8	7410.6	7366.7	7212.0	6836.1	6298.9
10°	6761.2	6797.0	6849.1	6922.3	7067.2	7187.6	7246.2	7239.7	7150.2	6785.6	6129.7
12.5°	6238.7	6258.2	6338.0	6463.3	6640.7	6845.8	7002.1	7033.0	7034.6	6725.4	5988.1
15°	5789.5	5781.3	5843.2	5988.1	6237.1	6494.3	6774.2	6823.0	6901.2	6666.8	5856.2
17.5°	5405.4	5447.7	5457.5	5617.0	5846.5	6180.1	6536.6	6622.8	6779.1	6616.3	5747.2
20°	5167.7	5190.5	5211.7	5301.2	5507.9	5859.5	6313.6	6432.4	6665.2	6570.8	5625.1
22.5°	5097.7	5112.4	5094.5	5122.2	5268.6	5581.2	6071.1	6228.9	6556.1	6528.4	5525.8
25°	5151.5	5166.1	5123.8	5091.2	5141.7	5354.9	5836.7	6028.7	6468.2	6520.3	5450.9
27.5°	5281.7	5309.3	5250.7	5192.1	5162.8	5232.8	5652.8	5875.8	6408.0	6559.4	5416.8
30°	5485.1	5501.4	5457.5	5385.8	5319.1	5249.1	5556.7	5770.0	6391.7	6650.5	5413.5
32.5°	5706.5	5740.7	5716.2	5669.0	5582.8	5416.8	5584.4	5773.2	6430.8	6782.3	5454.2
35°	5979.9	6019.0	6041.8	6032.0	5921.3	5714.6	5760.2	5919.7	6534.9	7024.9	5564.9
37.5°	6248.5	6282.7	6411.2	6455.2	6357.5	6162.2	6102.0	6207.8	6764.4	7342.2	5765.1
40°	6556.1	6601.7	6782.3	6950.0	6902.8	6697.7	6587.0	6674.9	7116.0	7820.8	6144.3
42.5°	6850.7	6932.1	7207.2	7503.4	7547.3	7317.8	7244.6	7273.9	7636.9	8509.3	6673.3
45°	7269.0	7345.5	7700.3	8102.4	8309.1	8130.0	8055.2	8050.3	8351.4	9477.7	7531.1
47.5°	7872.9	7941.2	8359.5	8756.7	9124.5	9148.9	9007.3	9056.1	9249.8	10610.5	8582.5
50°	8613.4	8774.6	9049.6	9463.1	9954.6	10351.7	10395.7	10330.6	10496.6	11922.4	9845.5
52.5°	9689.3	9751.1	10003.4	10343.6	10919.8	11593.6	12116.1	12026.6	11974.5	13172.4	11121.6
55°	10491.7	10574.7	10967.0	11434.1	12278.9	13167.5	14300.4	14331.3	13673.7	14373.6	12370.0
57.5°	10249.2	10376.2	10970.2	11909.4	13766.5	15390.9	16234.0	16255.2	15246.0	15540.6	13779.5
60°	9004.1	9064.3	9915.5	11168.8	13893.5	17799.8	18976.6	18805.7	16846.0	16846.0	15024.7
62.5°	6385.2	6479.6	7169.7	9013.8	12547.4	18636.4	22261.1	21907.9	19049.8	18094.4	15766.9
65°	4080.5	3989.3	4446.7	5690.2	9347.5	17401.0	25120.9	25142.0	21123.4	18594.1	15361.6
67°	2955.8	2920.0	3051.8	3890.0	6338.0	14627.5	25181.1	26296.0	22314.8	18278.3	14066.0
67.5°	2703.5	2731.2	2827.2	3509.2	5758.6	13310.8	24907.7	26227.7	22583.4	18087.9	13597.2
70°	2049.2	2002.0	2106.2	2482.1	3452.2	8397.0	21426.2	24054.8	22249.7	16198.2	10864.4
72.5°	1507.2	1502.3	1647.2	2029.7	2657.9	4472.7	16084.3	19287.4	18177.4	12334.2	6840.9
75°	1017.3	1062.8	1294.0	1696.0	2408.9	2900.4	10965.4	13992.8	12619.0	7003.7	2796.3
77.5°	579.4	582.7	833.3	1362.3	2163.1	2334.0	6497.5	8914.5	6679.8	2329.1	830.1
80°	250.7	275.1	413.4	989.6	1793.7	2067.1	3725.7	4899.2	2701.9	493.2	268.6
82.5°	92.8	109.1	182.3	608.7	1308.6	1702.5	2251.0	2338.9	916.4	174.2	167.6
85°	0.0	3.3	66.7	284.8	682.0	760.1	1503.9	1386.7	405.3	83.0	109.1
87.5°	0.0	0.0	0.0	29.3	89.5	283.2	467.1	520.8	97.7	29.3	26.0
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°	6456.8	6456.8	6456.8	6456.8	6456.8	6456.8	6456.8	6456.8	6456.8	6456.8	6456.8
2.5°	6408.0	6302.2	6036.9	5771.6	5574.6	5410.2	5162.8	5027.8	4956.1	4850.3	4856.9
5°	6246.9	6032.0	5564.9	5081.5	4690.8	4310.0	3854.2	3670.3	3515.7	3427.8	3369.2
7.5°	6007.6	5690.2	4998.5	4353.9	3753.3	3087.6	2587.9	2254.3	2029.7	1946.6	1866.9
10°	5745.5	5324.0	4423.9	3530.3	2697.0	2010.1	1586.9	1280.9	1171.9	1071.0	1080.7
12.5°	5503.0	4990.3	3896.6	2786.5	1889.7	1277.7	996.1	870.8	835.0	823.6	823.6
15°	5304.5	4671.3	3330.1	2094.8	1295.6	918.0	797.5	763.4	750.3	747.1	747.1
17.5°	5092.9	4368.6	2819.1	1547.9	942.4	768.2	727.6	704.8	699.9	696.6	696.6
20°	4904.1	4064.2	2334.0	1152.4	761.7	691.7	665.7	651.1	646.2	642.9	644.5
22.5°	4725.0	3794.0	1878.3	870.8	670.6	629.9	603.9	589.2	579.4	571.3	572.9
25°	4565.5	3533.6	1510.4	712.9	603.9	568.0	542.0	520.8	499.7	489.9	488.3
27.5°	4453.2	3305.7	1176.8	610.4	543.6	504.6	472.0	446.0	418.3	403.7	400.4
30°	4360.4	3074.6	931.0	538.7	483.4	446.0	405.3	367.8	338.5	323.9	317.4
32.5°	4300.2	2854.9	734.1	480.2	433.0	387.4	341.8	304.4	271.8	257.2	253.9
35°	4290.4	2670.9	600.6	431.3	387.4	338.5	291.3	250.7	223.0	208.3	205.1
37.5°	4360.4	2529.3	502.9	392.3	349.9	296.2	244.1	206.7	182.3	170.9	169.3
40°	4547.6	2439.8	436.2	359.7	315.8	257.2	208.3	175.8	151.4	140.0	140.0
42.5°	4904.1	2443.1	392.3	328.8	281.6	219.7	177.4	146.5	125.3	115.6	112.3
45°	5460.7	2553.8	354.8	297.9	249.0	190.4	151.4	120.4	99.3	91.1	91.1
47.5°	6206.2	2773.5	322.3	266.9	219.7	162.8	128.6	97.7	79.8	71.6	71.6
50°	7181.1	3126.7	294.6	240.9	195.3	140.0	104.2	79.8	61.9	55.3	53.7
52.5°	8200.0	3562.9	262.0	218.1	167.6	118.8	84.6	61.9	47.2	42.3	40.7
55°	9324.7	3989.3	231.1	195.3	136.7	99.3	66.7	48.8	34.2	29.3	29.3
57.5°	10459.2	4407.6	193.7	162.8	107.4	73.2	52.1	35.8	22.8	17.9	17.9
60°	11419.5	4542.7	164.4	131.8	81.4	52.1	37.4	22.8	13.0	8.1	8.1
62.5°	11551.3	4087.0	138.3	100.9	58.6	35.8	19.5	13.0	4.9	3.3	3.3
65°	10835.1	3320.4	115.6	76.5	39.1	17.9	8.1	4.9	1.6	0.0	0.0
67°	9708.8	2692.1	94.4	57.0	27.7	11.4	4.9	1.6	0.0	0.0	0.0
67.5°	9420.7	2566.8	91.1	53.7	24.4	9.8	3.3	1.6	0.0	0.0	0.0
70°	7392.7	1922.2	65.1	32.6	14.6	6.5	0.0	0.0	0.0	0.0	0.0
72.5°	4594.8	1087.3	47.2	19.5	9.8	3.3	0.0	0.0	0.0	0.0	0.0
75°	1736.7	380.9	32.6	13.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	540.4	144.9	19.5	9.8	3.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	182.3	55.3	13.0	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	112.3	22.8	8.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	70.0	9.8	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.0	3.3	1.6	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)