

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: P454157

Luminaire Tested: **GALN-SA5B-727-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454157  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5B-727-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18658 lumens  
Efficiency: N/A  
Efficacy: 91.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 204  
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

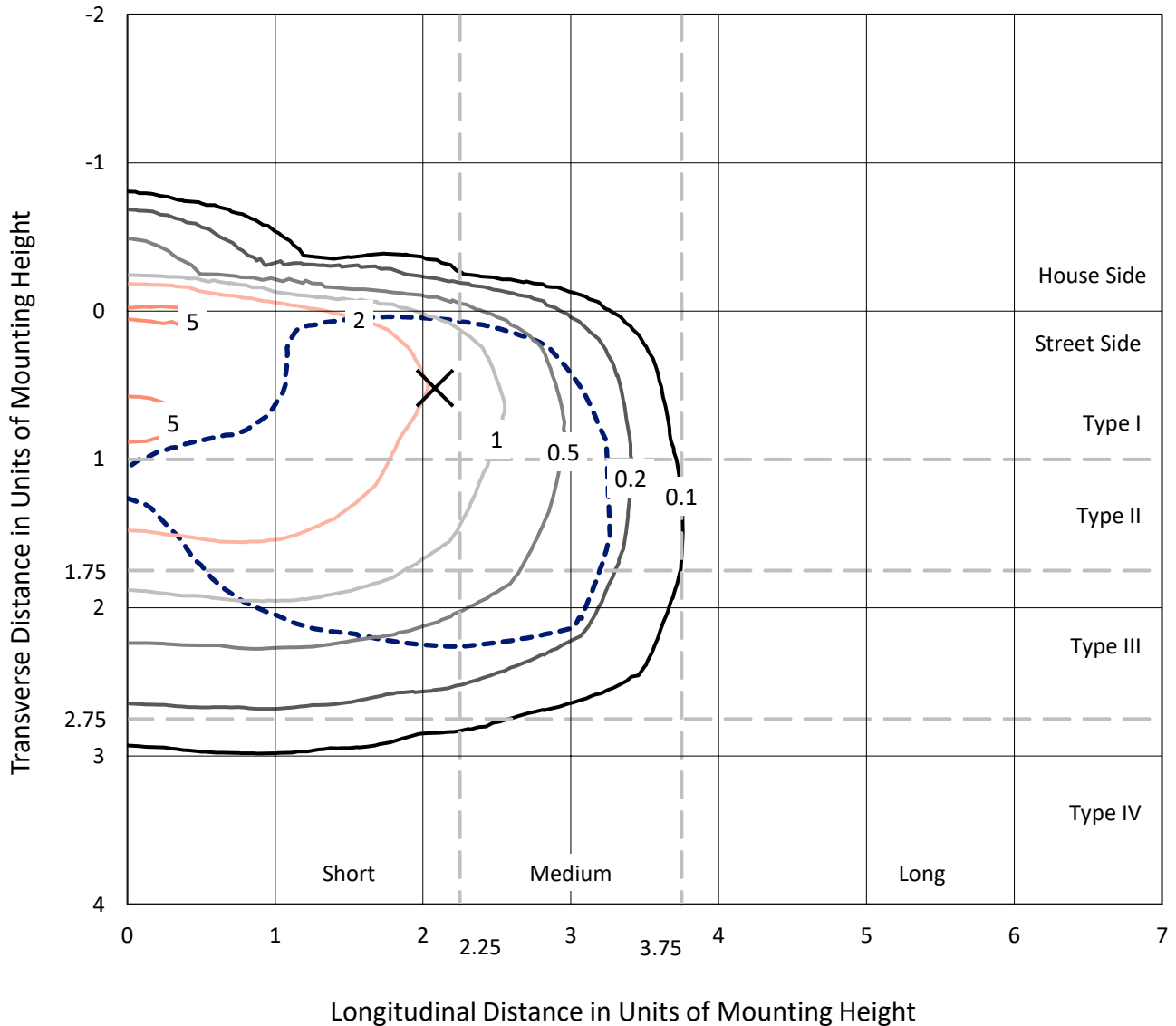




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### Iso-Footcandle Lines of Horizontal Illumination

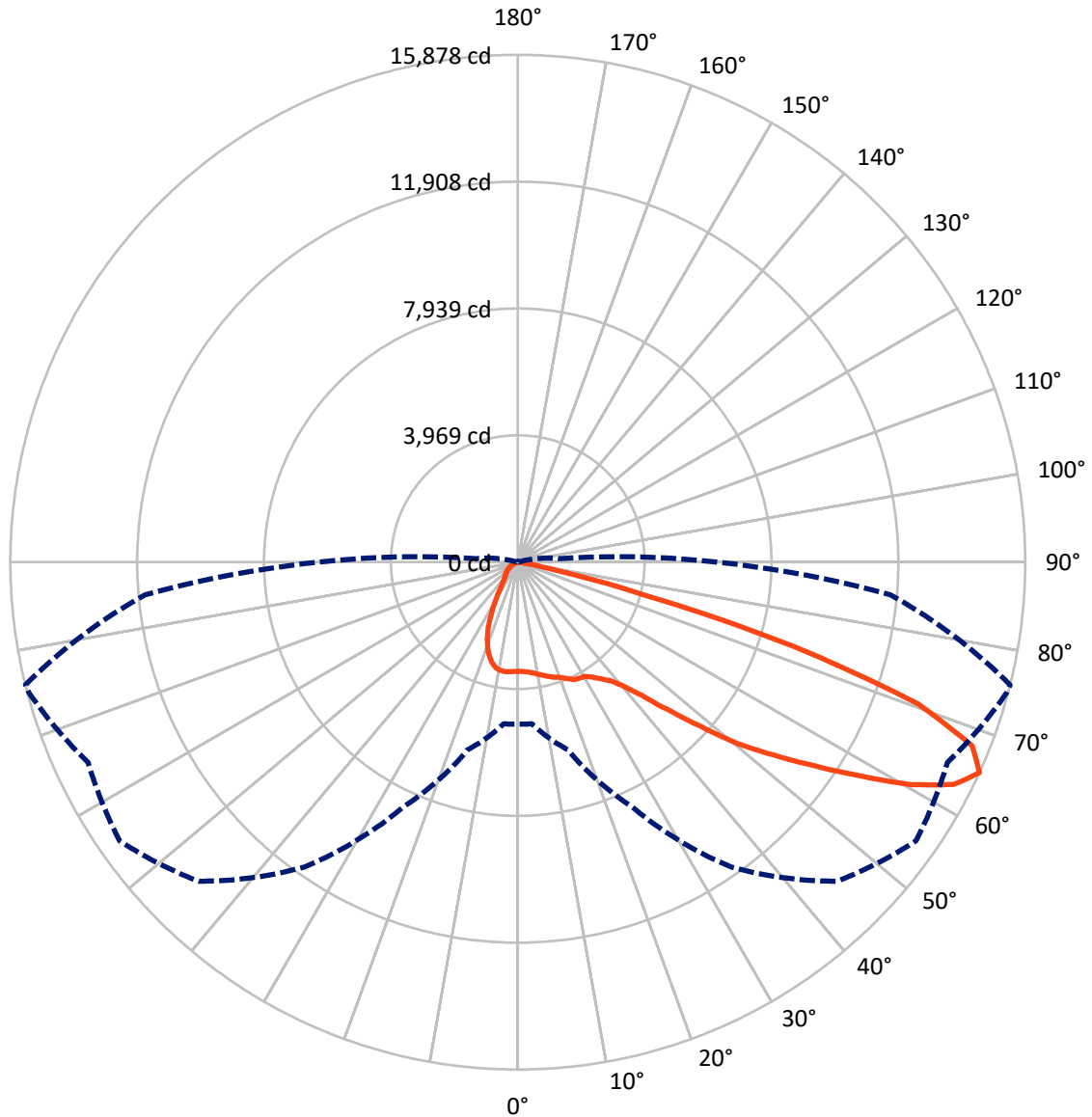
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1347.5	0.0	1347.5
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	17310.5	0.0	17310.5
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	18658.0	0.0	18658.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	281.2	1.5
10°-20°	626.0	3.4
20°-30°	1008.8	5.4
30°-40°	1754.0	9.4
40°-50°	2898.4	15.5
50°-60°	4477.5	24.0
60°-70°	5467.7	29.3
70°-80°	2075.1	11.1
80°-90°	69.3	0.4
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°	18658.0	100.0
0°-180°	18658.0	100.0

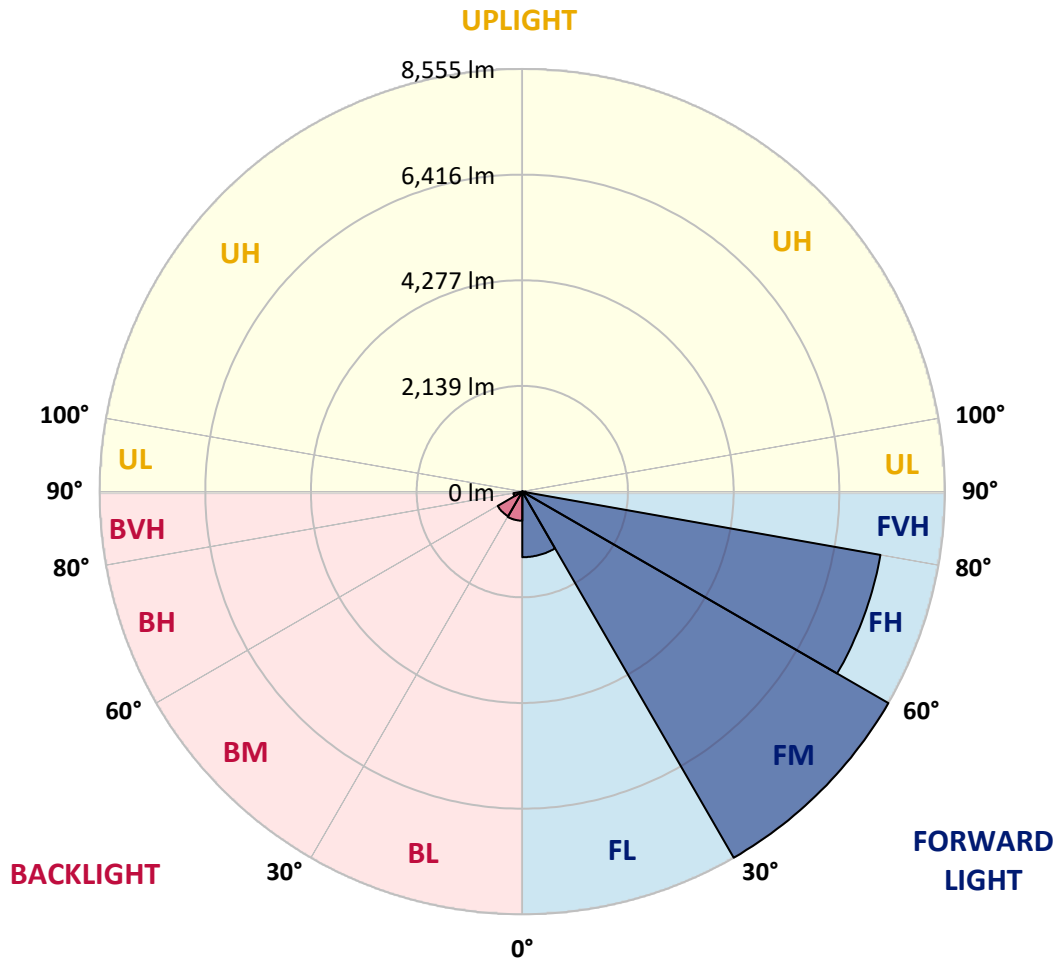


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1327.3	7.1			
FM (30°-60°)	8555.0	45.9			
FH (60°-80°)	7359.9	39.4			G3/7500
FVH (80°-90°)	68.3	0.4			G1/100
BL (0°-30°)	588.7	3.2	B2/1000		
BM (30°-60°)	575.0	3.1	B1/1000		
BH (60°-80°)	182.8	1.0	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: B2-U0-G3**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1
2.5°	3261.7	3263.0	3270.9	3290.6	3320.9	3346.0	3367.0	3401.3	3425.0	3427.6	3435.5
5°	3036.4	3020.6	3036.4	3087.8	3133.9	3203.7	3289.3	3374.9	3451.3	3456.6	3493.5
7.5°	2783.5	2796.6	2821.7	2874.4	2961.3	3068.0	3191.8	3344.6	3489.5	3502.7	3575.2
10°	2526.6	2555.6	2596.4	2676.8	2798.0	2936.3	3104.9	3323.6	3550.1	3568.6	3693.7
12.5°	2289.5	2302.7	2352.7	2460.7	2610.9	2805.9	3039.0	3311.7	3617.3	3639.7	3820.2
15°	2107.7	2124.8	2168.3	2265.8	2433.1	2683.4	2985.0	3307.8	3683.2	3714.8	3946.7
17.5°	2073.4	2084.0	2102.4	2168.3	2314.5	2585.9	2936.3	3306.4	3746.4	3784.6	4063.9
20°	2214.4	2205.2	2186.7	2180.1	2260.5	2510.8	2900.7	3317.0	3807.0	3850.5	4187.7
22.5°	2567.4	2579.3	2471.3	2343.5	2317.1	2498.9	2895.4	3367.0	3903.2	3954.6	4326.0
25°	3317.0	3226.1	3057.5	2751.9	2521.3	2571.4	2954.7	3485.6	4015.2	4071.8	4451.2
27.5°	4145.6	4117.9	3855.8	3352.5	2923.1	2724.2	3060.1	3576.5	4052.0	4110.0	4522.3
30°	4959.7	4992.6	4692.2	4136.3	3506.7	3007.4	3158.9	3610.7	4085.0	4145.6	4613.2
32.5°	5714.5	5754.0	5490.5	4939.9	4194.3	3497.5	3328.8	3743.8	4223.3	4285.2	4764.7
35°	6308.6	6313.9	6114.9	5676.3	4945.2	4092.9	3696.4	3977.0	4410.3	4482.8	4925.4
37.5°	6854.0	6846.0	6612.9	6234.8	5570.9	4684.3	4158.7	4245.7	4623.7	4698.8	5157.3
40°	7258.4	7263.6	7188.5	6832.9	6154.5	5231.0	4525.0	4497.3	4982.1	5099.3	5494.5
42.5°	7528.4	7577.2	7614.0	7433.6	6888.2	5904.2	5087.4	5036.1	5603.8	5701.3	5971.4
45°	7747.1	7834.0	8018.5	8009.2	7593.0	6730.1	5859.4	5754.0	6485.1	6589.2	6578.6
47.5°	7906.5	7994.7	8300.4	8484.8	8255.6	7531.0	6830.2	6739.3	7537.6	7650.9	7249.1
50°	7988.2	8093.5	8483.5	8840.5	8773.3	8303.0	7936.8	7942.0	8808.8	8918.2	8026.4
52.5°	7797.1	7934.1	8580.9	9223.8	9354.2	9042.0	8973.5	9147.4	9940.4	10033.9	8728.5
55°	7187.2	7359.8	8447.9	9550.5	10027.3	9914.1	10151.2	10416.0	11177.4	11238.0	9449.0
57.5°	6801.3	6984.4	8055.3	9828.4	10836.2	11010.1	11385.5	11579.1	12453.8	12607.9	10276.3
60°	6475.9	6619.5	7732.6	9887.7	11658.2	12351.1	12716.0	12916.2	14029.3	14129.4	11186.6
62.5°	5934.5	6099.1	7187.2	9474.1	12071.8	13424.7	14180.8	14091.2	15247.8	15317.7	11745.1
65°	5063.7	5078.2	6080.7	8434.7	11645.0	14121.5	15209.6	14834.2	15830.1	15877.5	11701.6
67.5°	3779.4	3919.0	4677.8	6630.0	9836.3	13526.1	15542.9	14854.0	15462.6	15330.8	10772.9
70°	2434.4	2541.1	3170.8	4597.4	7092.4	11288.0	14437.7	13835.7	13570.9	13278.5	8818.1
72.5°	1123.7	1260.7	1883.7	2626.7	4206.2	8040.8	11720.1	11240.6	9767.8	9046.0	5605.1
75°	490.0	524.3	930.0	1385.8	1972.0	4252.3	7727.3	6977.8	4411.7	4029.6	2243.4
77.5°	299.0	321.4	487.4	743.0	774.6	1620.3	4162.7	3044.3	1363.4	1202.7	608.6
80°	202.9	227.9	354.4	388.6	264.8	451.8	1562.3	812.8	275.3	263.5	130.4
82.5°	98.8	125.1	262.1	217.4	114.6	144.9	454.5	173.9	80.4	75.1	46.1
85°	14.5	25.0	147.5	142.3	51.4	34.2	80.4	43.5	27.7	26.3	21.1
87.5°	0.0	0.0	50.1	22.4	5.3	5.3	9.2	9.2	10.5	9.2	10.5
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°	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1	3413.1
2.5°	3439.5	3446.1	3421.0	3385.5	3347.3	3309.1	3255.1	3206.3	3177.3	3194.5	3152.3
5°	3501.4	3496.1	3430.3	3322.2	3178.7	3006.1	2834.8	2688.6	2641.2	2570.1	2562.2
7.5°	3587.0	3572.5	3432.9	3185.2	2861.2	2537.1	2221.0	2011.5	1891.7	1790.2	1792.9
10°	3706.9	3664.7	3402.6	2944.2	2410.7	1922.0	1518.9	1242.2	1122.3	1084.1	1053.8
12.5°	3830.7	3749.1	3318.3	2618.8	1877.2	1313.4	923.4	754.8	681.0	657.3	654.7
15°	3941.4	3812.3	3170.8	2227.6	1364.7	839.1	629.7	574.3	565.1	566.4	565.1
17.5°	4050.7	3862.3	2966.6	1812.6	927.4	602.0	541.4	528.2	532.2	537.5	536.1
20°	4141.6	3872.9	2705.7	1383.2	656.0	528.2	508.5	505.8	509.8	513.7	513.7
22.5°	4240.4	3880.8	2396.2	957.7	536.1	491.4	480.8	480.8	486.1	491.4	492.7
25°	4314.2	3837.3	2026.0	687.6	472.9	455.8	450.5	451.8	457.1	459.7	458.4
27.5°	4326.0	3714.8	1633.5	526.9	429.4	412.3	407.0	412.3	405.7	409.7	407.0
30°	4336.6	3559.4	1235.6	443.9	389.9	363.6	355.7	347.8	342.5	335.9	334.6
32.5°	4369.5	3376.3	902.4	399.1	353.0	324.1	305.6	283.2	266.1	260.8	259.5
35°	4384.0	3156.3	662.6	363.6	320.1	288.5	255.6	223.9	198.9	189.7	196.3
37.5°	4439.3	2942.9	513.7	337.2	291.1	251.6	209.5	169.9	146.2	141.0	143.6
40°	4552.6	2711.0	430.8	314.8	266.1	217.4	166.0	127.8	112.0	106.7	105.4
42.5°	4734.4	2480.5	383.3	293.8	241.1	183.1	130.4	100.1	86.9	83.0	83.0
45°	4955.7	2259.2	350.4	271.4	214.7	147.5	102.7	80.4	72.5	69.8	69.8
47.5°	5246.8	2065.5	322.7	249.0	185.7	117.2	83.0	69.8	64.5	65.9	67.2
50°	5541.9	1922.0	292.4	223.9	152.8	96.2	71.1	61.9	60.6	61.9	61.9
52.5°	5764.5	1837.6	251.6	189.7	119.9	80.4	63.2	58.0	56.6	54.0	54.0
55°	6064.9	1819.2	200.2	154.1	94.8	67.2	56.6	52.7	48.7	46.1	44.8
57.5°	6450.9	1840.3	154.1	119.9	73.8	55.3	50.1	43.5	38.2	32.9	32.9
60°	6690.6	1792.9	119.9	92.2	54.0	44.8	38.2	31.6	25.0	21.1	19.8
62.5°	6614.2	1592.6	94.8	68.5	38.2	32.9	25.0	21.1	14.5	10.5	9.2
65°	6220.3	1285.7	76.4	47.4	27.7	19.8	13.2	13.2	6.6	1.3	0.0
67.5°	5444.4	952.4	60.6	31.6	15.8	9.2	6.6	4.0	0.0	0.0	0.0
70°	4431.4	687.6	47.4	19.8	9.2	6.6	2.6	1.3	0.0	0.0	0.0
72.5°	2813.8	393.9	36.9	11.9	6.6	2.6	0.0	0.0	0.0	0.0	0.0
75°	1088.1	154.1	25.0	7.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	308.2	72.5	14.5	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	80.4	31.6	7.9	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	38.2	13.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.4	5.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.5	1.3	0.0	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)