

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: P458913

Luminaire Tested: **GALN-SA4B-735-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458913
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-SA4B-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 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: 16417 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

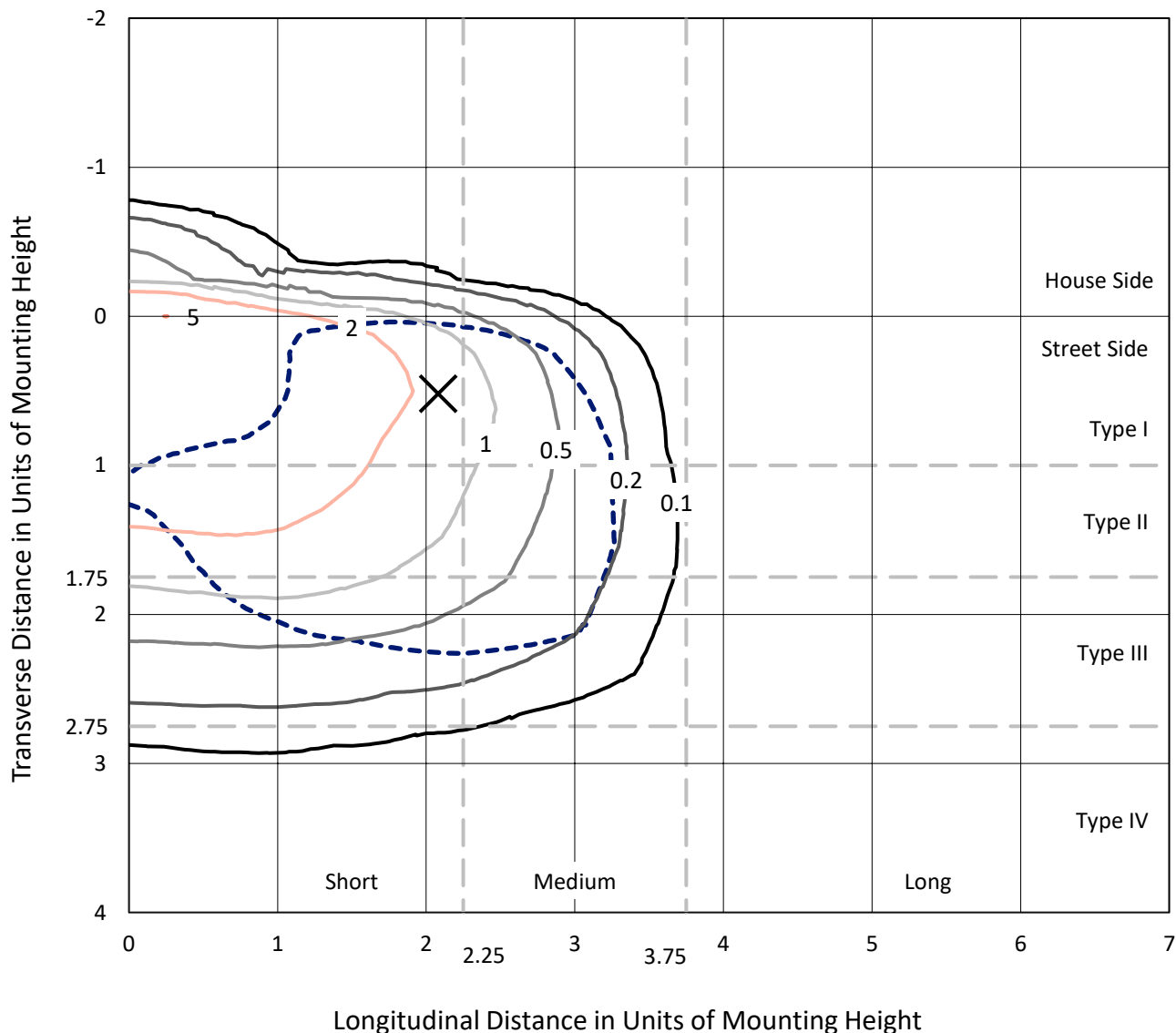
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

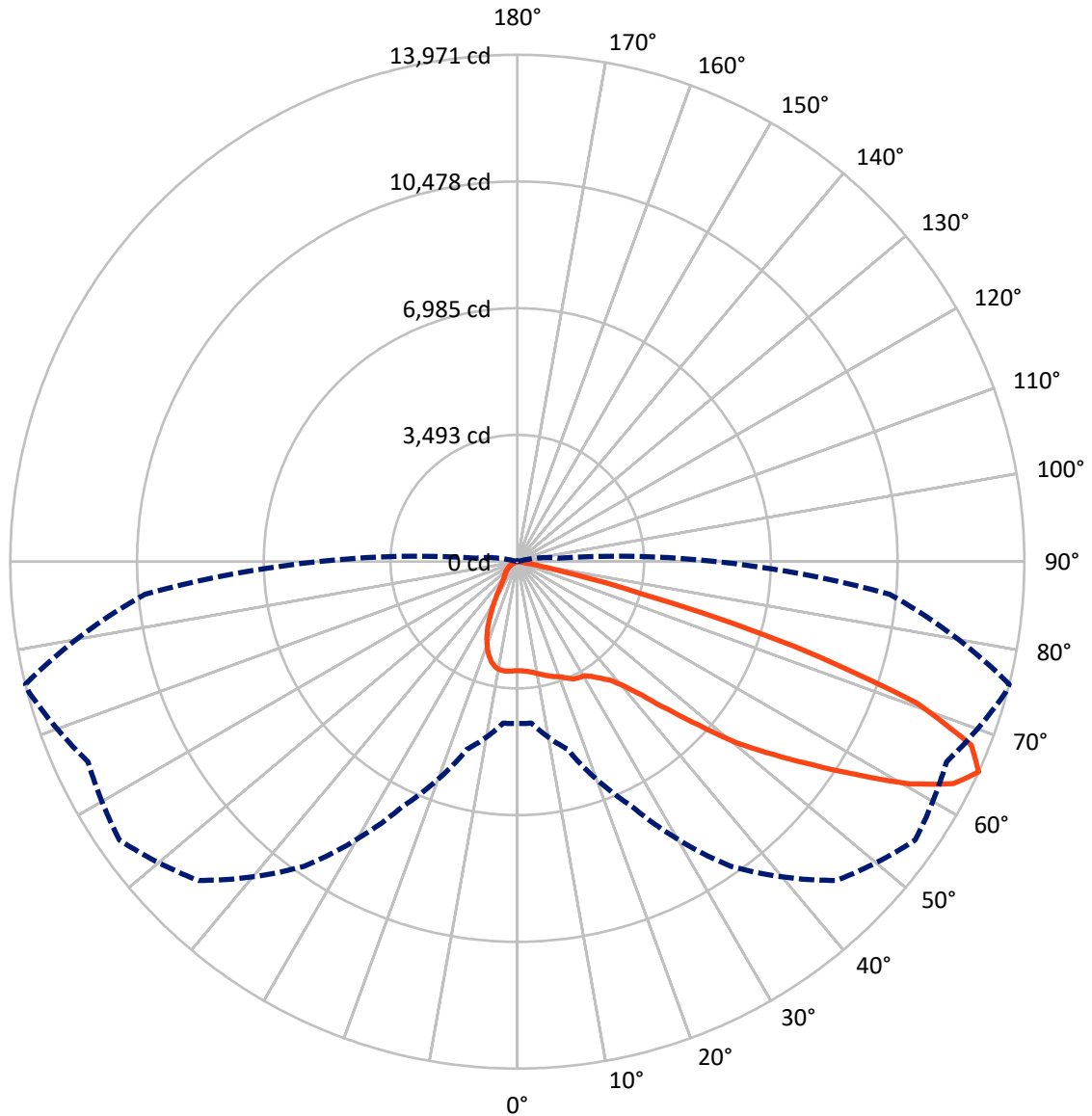
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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
House Side	Lumens	1185.6	0.0	1185.6
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	15231.4	0.0	15231.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	16417.0	0.0	16417.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.4	1.5
10°-20°	550.8	3.4
20°-30°	887.6	5.4
30°-40°	1543.4	9.4
40°-50°	2550.3	15.5
50°-60°	3939.7	24.0
60°-70°	4810.9	29.3
70°-80°	1825.9	11.1
80°-90°	60.9	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°	16417.0	100.0
0°-180°	16417.0	100.0

Coefficient of Utilization



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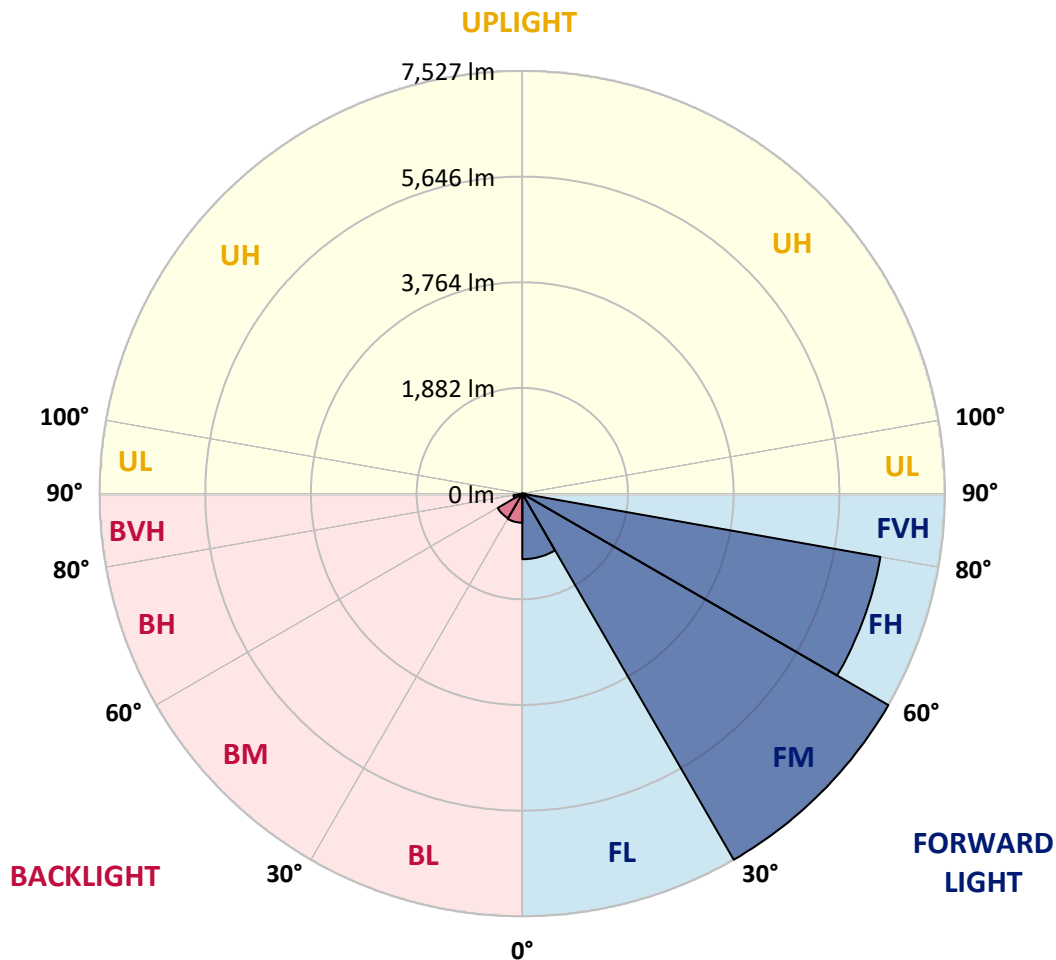
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1167.9	7.1			
FM (30°-60°)	7527.4	45.9			
FH (60°-80°)	6476.0	39.4			G3/7500
FVH (80°-90°)	60.1	0.4			G1/100
BL (0°-30°)	518.0	3.2	B2/1000		
BM (30°-60°)	505.9	3.1	B1/1000		
BH (60°-80°)	160.9	1.0	B1/500		G1/500
BVH (80°-90°)	0.8	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°	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2
2.5°	2869.9	2871.1	2878.0	2895.4	2922.1	2944.1	2962.6	2992.8	3013.6	3015.9	3022.9
5°	2671.7	2657.8	2671.7	2716.9	2757.5	2818.9	2894.2	2969.6	3036.8	3041.4	3073.9
7.5°	2449.1	2460.7	2482.8	2529.1	2605.6	2699.5	2808.5	2942.9	3070.4	3082.0	3145.8
10°	2223.1	2248.6	2284.6	2355.3	2461.9	2583.6	2732.0	2924.4	3123.7	3140.0	3250.1
12.5°	2014.5	2026.1	2070.1	2165.2	2297.3	2468.9	2674.0	2913.9	3182.9	3202.6	3361.4
15°	1854.5	1869.6	1907.9	1993.6	2140.8	2361.1	2626.5	2910.5	3240.8	3268.6	3472.6
17.5°	1824.4	1833.7	1849.9	1907.9	2036.5	2275.3	2583.6	2909.3	3296.4	3330.1	3575.8
20°	1948.4	1940.3	1924.1	1918.3	1989.0	2209.2	2552.3	2918.6	3349.8	3388.0	3684.7
22.5°	2259.1	2269.5	2174.4	2062.0	2038.8	2198.8	2547.7	2962.6	3434.4	3479.6	3806.4
25°	2918.6	2838.6	2690.2	2421.3	2218.5	2262.5	2599.8	3066.9	3532.9	3582.7	3916.6
27.5°	3647.6	3623.3	3392.6	2949.9	2572.0	2397.0	2692.6	3146.9	3565.4	3616.4	3979.1
30°	4364.0	4392.9	4128.7	3639.5	3085.5	2646.2	2779.5	3177.1	3594.3	3647.6	4059.1
32.5°	5028.1	5062.9	4831.1	4346.6	3690.5	3077.4	2929.0	3294.1	3716.0	3770.5	4192.4
35°	5550.9	5555.5	5380.5	4994.5	4351.2	3601.3	3252.4	3499.3	3880.6	3944.4	4333.8
37.5°	6030.7	6023.8	5818.6	5486.0	4901.8	4121.7	3659.2	3735.7	4068.4	4134.5	4537.8
40°	6386.6	6391.2	6325.1	6012.2	5415.3	4602.7	3981.5	3957.1	4383.7	4486.8	4834.5
42.5°	6624.2	6667.1	6699.5	6540.7	6060.9	5195.0	4476.4	4431.2	4930.8	5016.5	5254.1
45°	6816.6	6893.1	7055.4	7047.2	6681.0	5921.8	5155.6	5062.9	5706.2	5797.8	5788.5
47.5°	6956.8	7034.5	7303.4	7465.7	7264.0	6626.5	6009.9	5929.9	6632.3	6732.0	6378.5
50°	7028.7	7121.4	7464.5	7778.6	7719.5	7305.7	6983.5	6988.1	7750.8	7847.0	7062.3
52.5°	6860.6	6981.2	7550.3	8115.9	8230.7	7956.0	7895.7	8048.7	8746.5	8828.8	7680.1
55°	6324.0	6475.8	7433.2	8403.4	8823.0	8723.3	8931.9	9164.9	9834.8	9888.2	8314.1
57.5°	5984.4	6145.5	7087.8	8647.9	9534.6	9687.6	10018.0	10188.4	10958.0	11093.6	9042.0
60°	5698.1	5824.4	6803.8	8700.1	10257.9	10867.6	11188.7	11364.8	12344.3	12432.4	9843.0
62.5°	5221.7	5366.6	6324.0	8336.2	10621.9	11812.3	12477.6	12398.7	13416.4	13477.9	10334.4
65°	4455.5	4468.3	5350.3	7421.6	10246.3	12425.4	13382.8	13052.5	13928.7	13970.5	10296.2
67.5°	3325.4	3448.3	4115.9	5833.7	8654.9	11901.5	13676.1	13069.9	13605.4	13489.4	9479.0
70°	2142.0	2235.9	2789.9	4045.2	6240.5	9932.2	12703.6	12173.9	11940.9	11683.6	7758.9
72.5°	988.7	1109.2	1657.5	2311.2	3701.0	7075.1	10312.4	9890.5	8594.6	7959.4	4931.9
75°	431.2	461.3	818.3	1219.4	1735.2	3741.5	6799.2	6139.7	3881.8	3545.6	1973.9
77.5°	263.1	282.8	428.9	653.7	681.5	1425.7	3662.7	2678.6	1199.7	1058.2	535.5
80°	178.5	200.5	311.8	341.9	233.0	397.6	1374.7	715.2	242.2	231.8	114.7
82.5°	86.9	110.1	230.7	191.2	100.8	127.5	399.9	153.0	70.7	66.1	40.6
85°	12.7	22.0	129.8	125.2	45.2	30.1	70.7	38.2	24.3	23.2	18.5
87.5°	0.0	0.0	44.0	19.7	4.6	4.6	8.1	8.1	9.3	8.1	9.3
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°	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2	3003.2
2.5°	3026.4	3032.2	3010.1	2978.9	2945.2	2911.6	2864.1	2821.2	2795.7	2810.8	2773.7
5°	3080.9	3076.2	3018.3	2923.2	2796.9	2645.0	2494.4	2365.7	2324.0	2261.4	2254.4
7.5°	3156.2	3143.4	3020.6	2802.7	2517.5	2232.4	1954.2	1769.9	1664.4	1575.2	1577.5
10°	3261.7	3224.6	2993.9	2590.6	2121.1	1691.1	1336.4	1093.0	987.5	953.9	927.3
12.5°	3370.6	3298.8	2919.7	2304.3	1651.7	1155.6	812.5	664.2	599.2	578.4	576.1
15°	3468.0	3354.4	2789.9	1960.0	1200.8	738.3	554.0	505.4	497.2	498.4	497.2
17.5°	3564.2	3398.4	2610.3	1594.9	816.0	529.7	476.4	464.8	468.3	472.9	471.7
20°	3644.2	3407.7	2380.8	1217.0	577.2	464.8	447.4	445.1	448.6	452.0	452.0
22.5°	3731.1	3414.7	2108.4	842.7	471.7	432.3	423.1	423.1	427.7	432.3	433.5
25°	3796.0	3376.4	1782.7	605.0	416.1	401.0	396.4	397.6	402.2	404.5	403.4
27.5°	3806.4	3268.6	1437.3	463.6	377.9	362.8	358.2	362.8	357.0	360.5	358.2
30°	3815.7	3131.9	1087.2	390.6	343.1	319.9	313.0	306.0	301.4	295.6	294.4
32.5°	3844.7	2970.7	794.0	351.2	310.6	285.1	268.9	249.2	234.1	229.5	228.3
35°	3857.4	2777.2	583.0	319.9	281.7	253.8	224.9	197.0	175.0	166.9	172.7
37.5°	3906.1	2589.4	452.0	296.7	256.2	221.4	184.3	149.5	128.7	124.0	126.3
40°	4005.8	2385.4	379.0	277.0	234.1	191.2	146.0	112.4	98.5	93.9	92.7
42.5°	4165.8	2182.6	337.3	258.5	212.1	161.1	114.7	88.1	76.5	73.0	73.0
45°	4360.5	1987.8	308.3	238.8	188.9	129.8	90.4	70.7	63.7	61.4	61.4
47.5°	4616.6	1817.4	284.0	219.1	163.4	103.2	73.0	61.4	56.8	58.0	59.1
50°	4876.3	1691.1	257.3	197.0	134.5	84.6	62.6	54.5	53.3	54.5	54.5
52.5°	5072.2	1616.9	221.4	166.9	105.5	70.7	55.6	51.0	49.8	47.5	47.5
55°	5336.4	1600.7	176.2	135.6	83.5	59.1	49.8	46.4	42.9	40.6	39.4
57.5°	5676.0	1619.2	135.6	105.5	64.9	48.7	44.0	38.2	33.6	29.0	29.0
60°	5887.0	1577.5	105.5	81.1	47.5	39.4	33.6	27.8	22.0	18.5	17.4
62.5°	5819.8	1401.3	83.5	60.3	33.6	29.0	22.0	18.5	12.7	9.3	8.1
65°	5473.2	1131.3	67.2	41.7	24.3	17.4	11.6	11.6	5.8	1.2	0.0
67.5°	4790.5	838.0	53.3	27.8	13.9	8.1	5.8	3.5	0.0	0.0	0.0
70°	3899.2	605.0	41.7	17.4	8.1	5.8	2.3	1.2	0.0	0.0	0.0
72.5°	2475.8	346.6	32.5	10.4	5.8	2.3	0.0	0.0	0.0	0.0	0.0
75°	957.4	135.6	22.0	7.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	271.2	63.7	12.7	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	70.7	27.8	7.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	33.6	11.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.7	4.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.3	1.2	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)