

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: P458753

Luminaire Tested: **GALN-SA3A-735-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458753
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-SA3A-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA 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: 10520 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

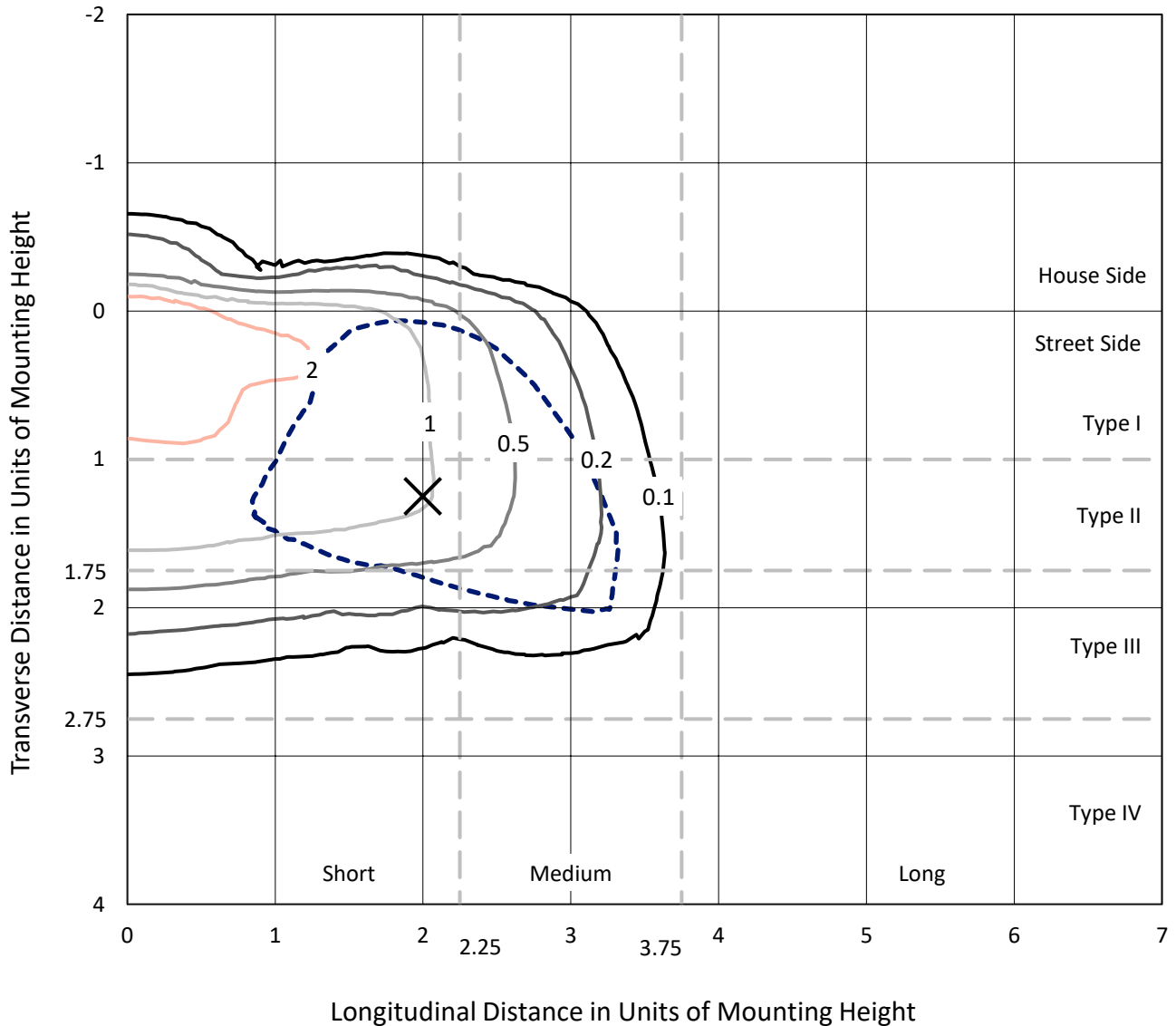
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

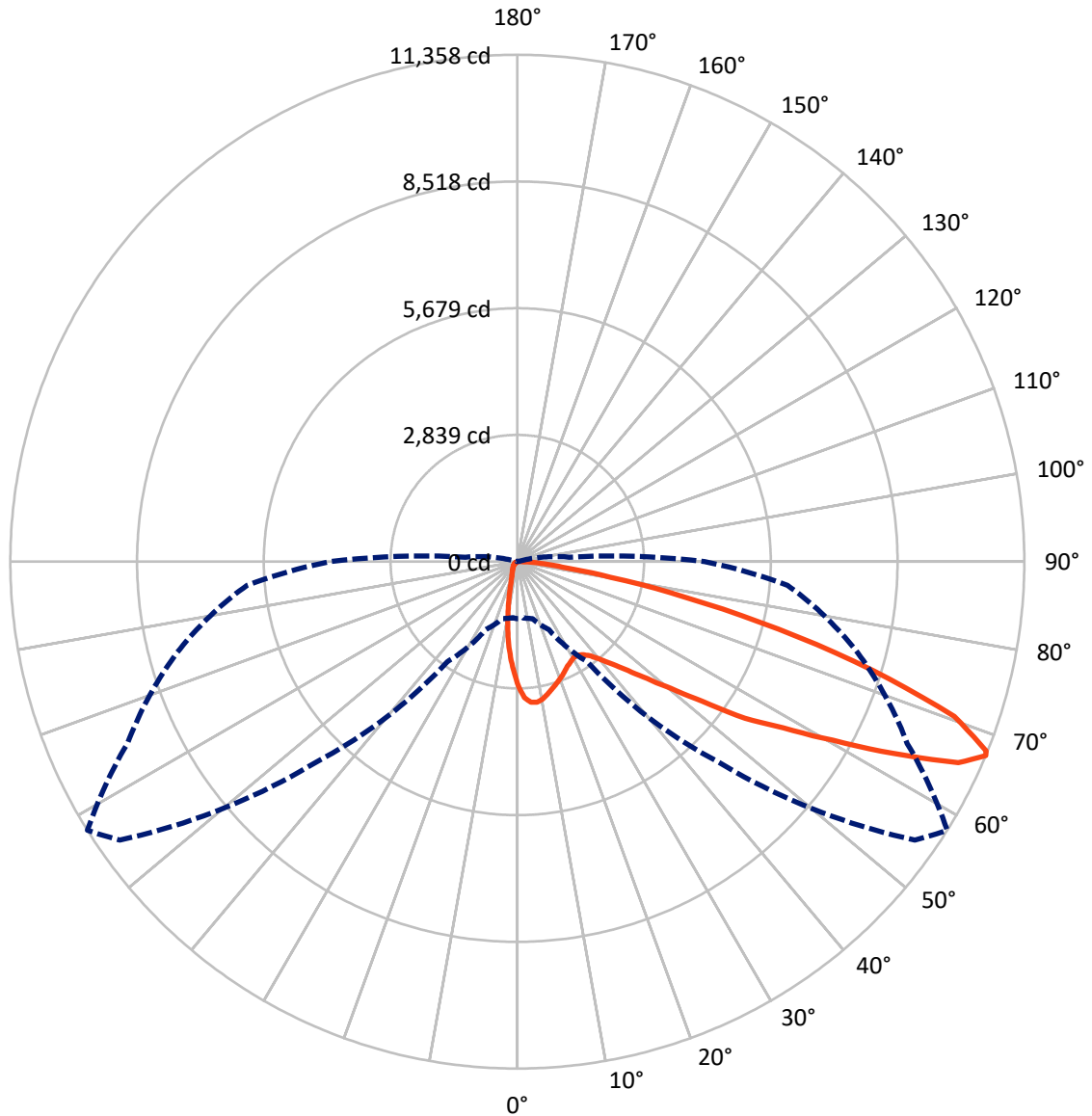
× Max cd
 - - - 1/2 Max cd



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 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	759.2	0.0	759.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	9760.8	0.0	9760.8
	% Fixture	92.8	0.0	92.8
Total	Lumens	10520.0	0.0	10520.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.3	2.2
10°-20°	488.8	4.6
20°-30°	662.3	6.3
30°-40°	918.6	8.7
40°-50°	1465.0	13.9
50°-60°	2532.4	24.1
60°-70°	2892.8	27.5
70°-80°	1206.0	11.5
80°-90°	127.9	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°	10520.0	100.0
0°-180°	10520.0	100.0



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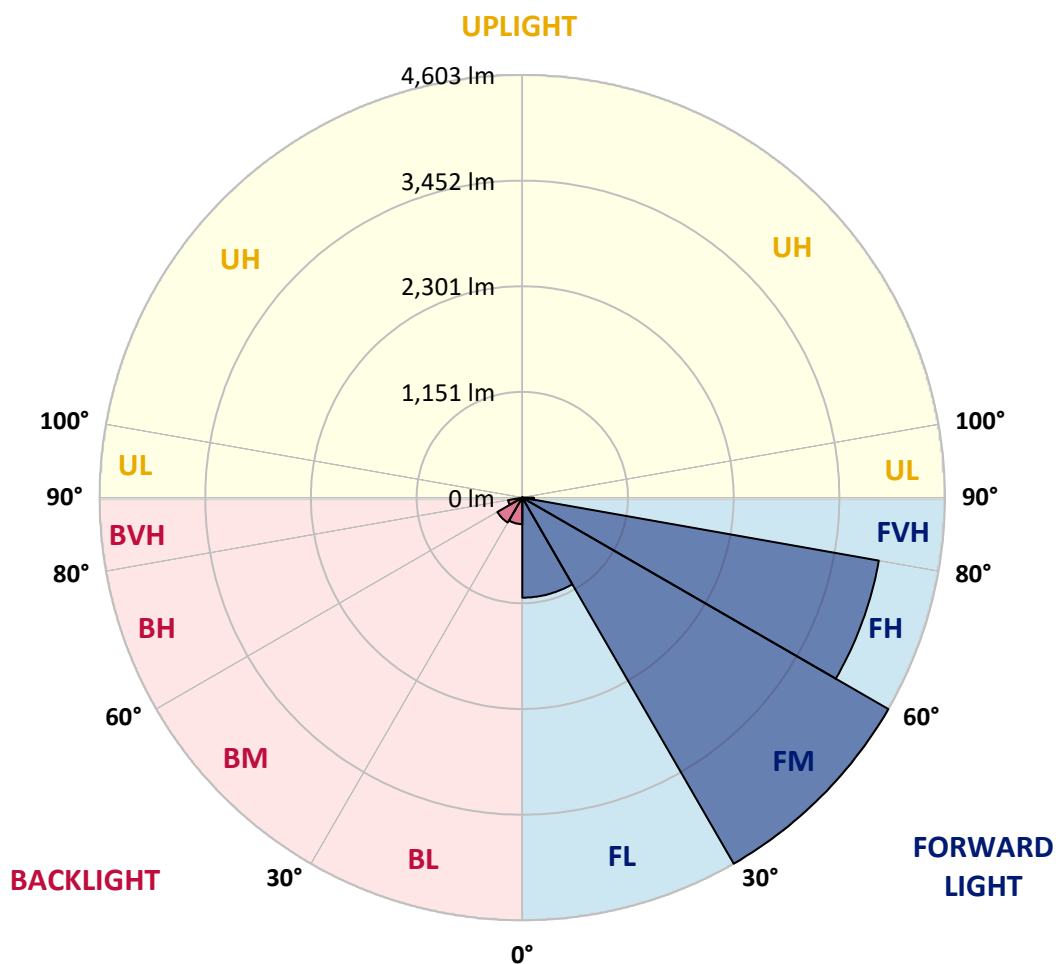
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1089.1	10.4			
FM (30°-60°)	4602.9	43.8			
FH (60°-80°)	3941.9	37.5			G2/5000
FVH (80°-90°)	126.9	1.2			G2/225
BL (0°-30°)	288.3	2.7	B1/500		
BM (30°-60°)	313.0	3.0	B1/1000		
BH (60°-80°)	156.9	1.5	B1/500		G1/500
BVH (80°-90°)	0.9	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2788.8	2788.8	2788.8	2788.8	2788.8	2788.8	2788.8	2788.8	2788.8	2788.8	2788.8
2.5°	3236.6	3241.5	3223.2	3208.4	3170.5	3129.7	3075.6	3046.8	2997.5	2912.5	2818.3
5°	3312.5	3318.8	3316.0	3312.5	3297.7	3258.4	3189.5	3164.2	3091.7	2953.3	2783.1
7.5°	3143.8	3167.0	3169.8	3197.2	3223.2	3226.7	3200.7	3181.7	3114.9	2952.6	2720.6
10°	2920.2	2935.7	2958.2	2989.8	3052.4	3104.4	3129.7	3126.9	3088.2	2930.8	2647.5
12.5°	2694.6	2703.0	2737.4	2791.6	2868.2	2956.8	3024.3	3037.6	3038.3	2904.7	2586.3
15°	2500.5	2497.0	2523.7	2586.3	2693.9	2804.9	2925.8	2946.9	2980.7	2879.4	2529.4
17.5°	2334.6	2352.9	2357.1	2426.0	2525.1	2669.2	2823.2	2860.5	2927.9	2857.6	2482.3
20°	2232.0	2241.8	2251.0	2289.6	2378.9	2530.8	2726.9	2778.2	2878.7	2838.0	2429.5
22.5°	2201.8	2208.1	2200.4	2212.3	2275.6	2410.5	2622.1	2690.3	2831.6	2819.7	2386.6
25°	2225.0	2231.3	2213.0	2198.9	2220.7	2312.8	2520.9	2603.9	2793.7	2816.2	2354.3
27.5°	2281.2	2293.1	2267.8	2242.5	2229.9	2260.1	2441.5	2537.8	2767.7	2833.0	2339.5
30°	2369.1	2376.1	2357.1	2326.2	2297.4	2267.1	2400.0	2492.1	2760.6	2872.4	2338.1
32.5°	2464.7	2479.4	2468.9	2448.5	2411.3	2339.5	2412.0	2493.5	2777.5	2929.4	2355.7
35°	2582.8	2599.7	2609.5	2605.3	2557.5	2468.2	2487.9	2556.8	2822.5	3034.1	2403.5
37.5°	2698.8	2713.5	2769.1	2788.1	2745.9	2661.5	2635.5	2681.2	2921.6	3171.2	2490.0
40°	2831.6	2851.3	2929.4	3001.8	2981.4	2892.8	2845.0	2883.0	3073.5	3377.9	2653.8
42.5°	2958.9	2994.0	3112.8	3240.8	3259.8	3160.6	3129.0	3141.7	3298.4	3675.2	2882.3
45°	3139.5	3172.6	3325.8	3499.5	3588.8	3511.4	3479.1	3477.0	3607.0	4093.5	3252.7
47.5°	3400.4	3429.9	3610.5	3782.1	3941.0	3951.5	3890.3	3911.4	3995.1	4582.8	3706.9
50°	3720.2	3789.8	3908.6	4087.2	4299.5	4471.0	4490.0	4461.9	4533.6	5149.4	4252.4
52.5°	4184.9	4211.6	4320.6	4467.5	4716.3	5007.4	5233.0	5194.4	5171.9	5689.3	4803.5
55°	4531.5	4567.3	4736.7	4938.5	5303.3	5687.2	6176.5	6189.8	5905.8	6208.1	5342.7
57.5°	4426.7	4481.6	4738.1	5143.8	5945.9	6647.5	7011.6	7020.7	6584.9	6712.1	5951.5
60°	3888.9	3914.9	4282.6	4823.9	6000.7	7687.9	8196.1	8122.3	7275.9	7275.9	6489.3
62.5°	2757.8	2798.6	3096.7	3893.2	5419.3	8049.2	9614.8	9462.2	8227.8	7815.1	6809.8
65°	1762.4	1723.0	1920.6	2457.6	4037.3	7515.7	10849.9	10859.1	9123.4	8030.9	6634.8
67°	1276.6	1261.2	1318.1	1680.1	2737.4	6317.8	10875.9	11357.5	9638.0	7894.6	6075.2
67.5°	1167.7	1179.6	1221.1	1515.6	2487.2	5749.0	10757.8	11328.0	9754.0	7812.3	5872.8
70°	885.1	864.7	909.7	1072.1	1491.0	3626.7	9254.1	10389.5	9609.9	6996.1	4692.4
72.5°	651.0	648.9	711.4	876.6	1148.0	1931.8	6946.9	8330.4	7851.0	5327.2	2954.7
75°	439.4	459.1	558.9	732.5	1040.4	1252.7	4736.0	6043.6	5450.3	3025.0	1207.7
77.5°	250.3	251.7	359.9	588.4	934.3	1008.1	2806.3	3850.3	2885.1	1006.0	358.5
80°	108.3	118.8	178.6	427.4	774.7	892.8	1609.1	2116.0	1167.0	213.0	116.0
82.5°	40.1	47.1	78.7	262.9	565.2	735.3	972.2	1010.2	395.8	75.2	72.4
85°	0.0	1.4	28.8	123.0	294.6	328.3	649.6	598.9	175.0	35.9	47.1
87.5°	0.0	0.0	0.0	12.7	38.7	122.3	201.8	225.0	42.2	12.7	11.2
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°	2788.8	2788.8	2788.8	2788.8	2788.8	2788.8	2788.8	2788.8	2788.8	2788.8	2788.8
2.5°	2767.7	2722.0	2607.4	2492.8	2407.7	2336.7	2229.9	2171.5	2140.6	2094.9	2097.7
5°	2698.1	2605.3	2403.5	2194.7	2026.0	1861.5	1664.7	1585.2	1518.5	1480.5	1455.2
7.5°	2594.7	2457.6	2158.9	1880.5	1621.1	1333.6	1117.8	973.6	876.6	840.8	806.3
10°	2481.5	2299.5	1910.7	1524.8	1164.9	868.2	685.4	553.3	506.2	462.6	466.8
12.5°	2376.8	2155.4	1683.0	1203.5	816.2	551.8	430.2	376.1	360.6	355.7	355.7
15°	2291.0	2017.6	1438.3	904.7	559.6	396.5	344.5	329.7	324.1	322.7	322.7
17.5°	2199.7	1886.8	1217.6	668.5	407.0	331.8	314.2	304.4	302.3	300.9	300.9
20°	2118.1	1755.4	1008.1	497.7	329.0	298.8	287.5	281.2	279.1	277.7	278.4
22.5°	2040.8	1638.7	811.2	376.1	289.6	272.1	260.8	254.5	250.3	246.7	247.5
25°	1971.9	1526.2	652.4	307.9	260.8	245.3	234.1	225.0	215.8	211.6	210.9
27.5°	1923.4	1427.8	508.3	263.6	234.8	217.9	203.9	192.6	180.7	174.3	172.9
30°	1883.3	1327.9	402.1	232.7	208.8	192.6	175.0	158.9	146.2	139.9	137.1
32.5°	1857.3	1233.0	317.0	207.4	187.0	167.3	147.6	131.5	117.4	111.1	109.7
35°	1853.1	1153.6	259.4	186.3	167.3	146.2	125.8	108.3	96.3	90.0	88.6
37.5°	1883.3	1092.4	217.2	169.4	151.1	127.9	105.4	89.3	78.7	73.8	73.1
40°	1964.1	1053.8	188.4	155.4	136.4	111.1	90.0	75.9	65.4	60.5	60.5
42.5°	2118.1	1055.2	169.4	142.0	121.6	94.9	76.6	63.3	54.1	49.9	48.5
45°	2358.5	1103.0	153.3	128.6	107.6	82.2	65.4	52.0	42.9	39.4	39.4
47.5°	2680.5	1197.9	139.2	115.3	94.9	70.3	55.5	42.2	34.4	30.9	30.9
50°	3101.6	1350.4	127.2	104.0	84.4	60.5	45.0	34.4	26.7	23.9	23.2
52.5°	3541.7	1538.8	113.2	94.2	72.4	51.3	36.6	26.7	20.4	18.3	17.6
55°	4027.4	1723.0	99.8	84.4	59.1	42.9	28.8	21.1	14.8	12.7	12.7
57.5°	4517.4	1903.7	83.7	70.3	46.4	31.6	22.5	15.5	9.8	7.7	7.7
60°	4932.2	1962.0	71.0	56.9	35.1	22.5	16.2	9.8	5.6	3.5	3.5
62.5°	4989.1	1765.2	59.8	43.6	25.3	15.5	8.4	5.6	2.1	1.4	1.4
65°	4679.8	1434.1	49.9	33.0	16.9	7.7	3.5	2.1	0.7	0.0	0.0
67°	4193.3	1162.7	40.8	24.6	12.0	4.9	2.1	0.7	0.0	0.0	0.0
67.5°	4068.9	1108.6	39.4	23.2	10.5	4.2	1.4	0.7	0.0	0.0	0.0
70°	3193.0	830.2	28.1	14.1	6.3	2.8	0.0	0.0	0.0	0.0	0.0
72.5°	1984.5	469.6	20.4	8.4	4.2	1.4	0.0	0.0	0.0	0.0	0.0
75°	750.1	164.5	14.1	5.6	2.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	233.4	62.6	8.4	4.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	78.7	23.9	5.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	48.5	9.8	3.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	30.2	4.2	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.6	1.4	0.7	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)