

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: P458872

Luminaire Tested: **GALN-SA4A-735-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458872  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA4A-735-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16496 lumens  
Efficiency: N/A  
Efficacy: 136.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

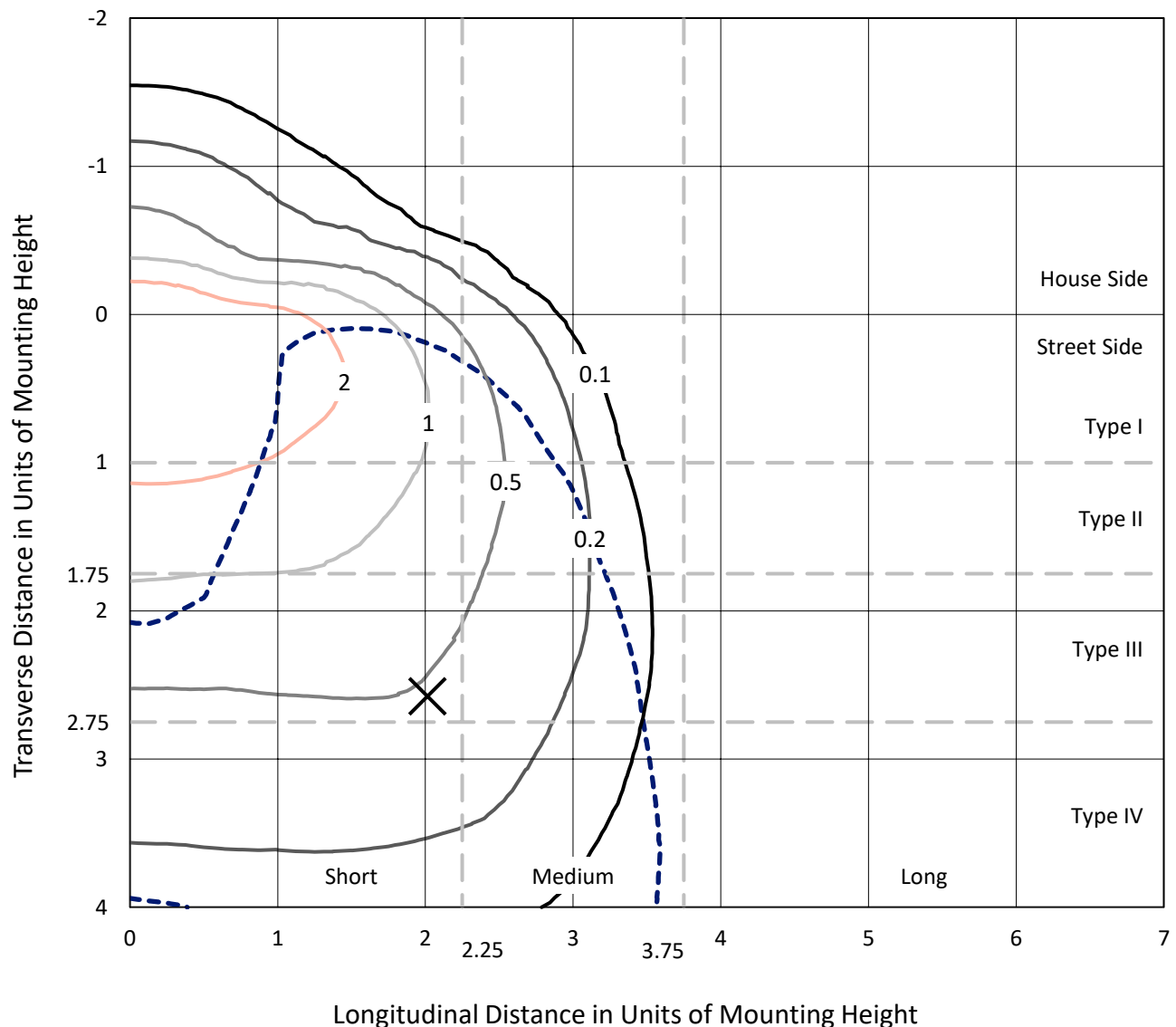


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

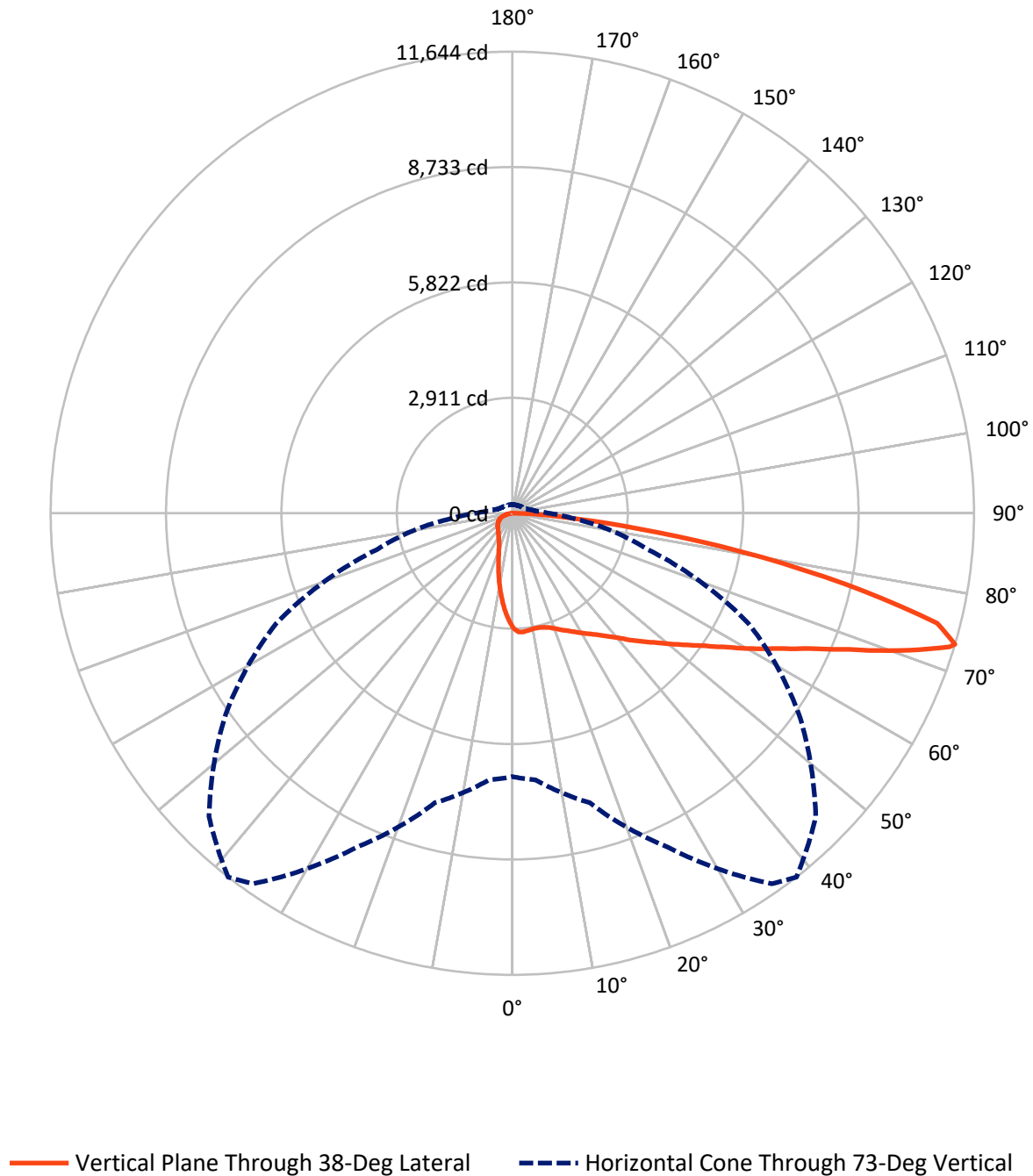


Based on 25 foot mounting height. Maximum calculated value = 4.7 fc  
 Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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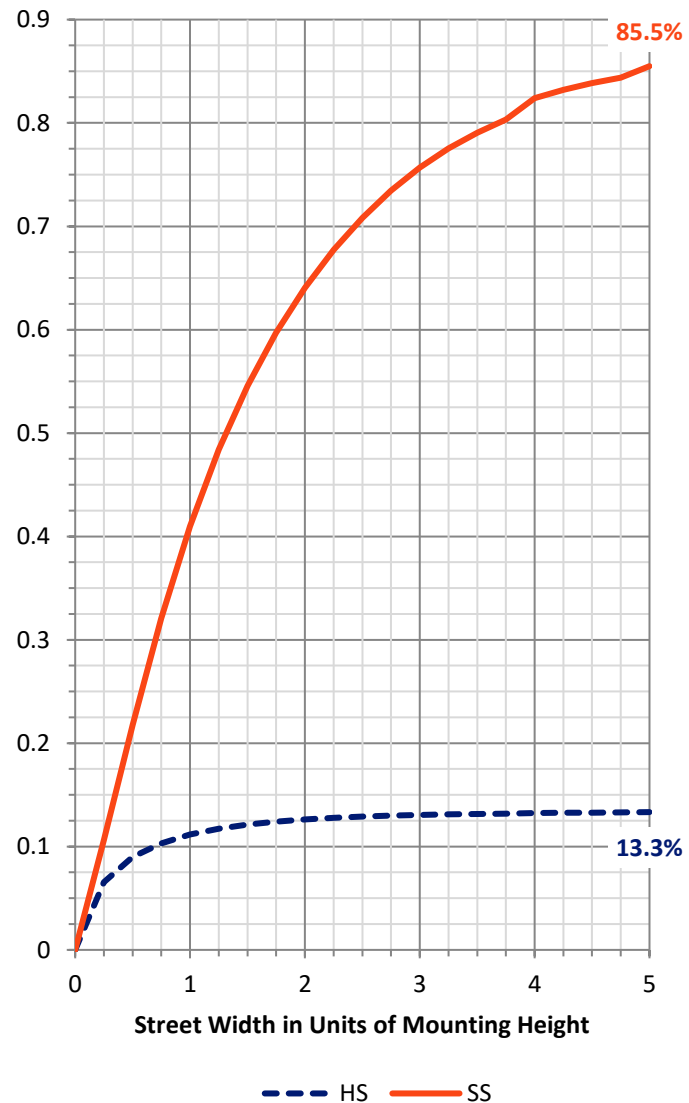
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2217.6	0.0	2217.6
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	14278.4	0.0	14278.4
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	16496.0	0.0	16496.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.0	1.5
10°-20°	648.7	3.9
20°-30°	1010.1	6.1
30°-40°	1481.6	9.0
40°-50°	2197.9	13.3
50°-60°	3113.9	18.9
60°-70°	3950.1	23.9
70°-80°	3288.2	19.9
80°-90°	552.5	3.3
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°	16496.0	100.0
0°-180°	16496.0	100.0

**Coefficient of Utilization**



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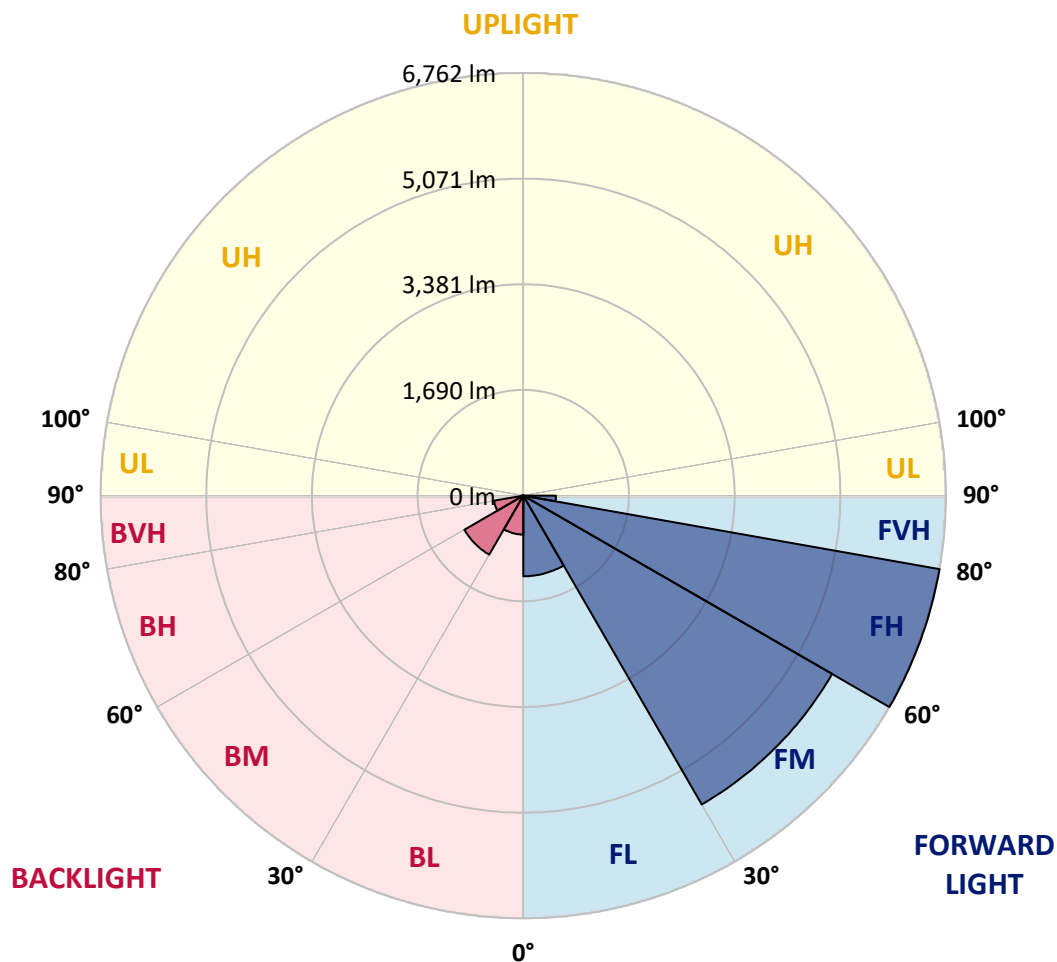
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1289.5	7.8			
FM	(30°-60°)	5704.8	34.6			
FH	(60°-80°)	6761.6	41.0			G3/7500
FVH	(80°-90°)	522.5	3.2			G4/750
BL	(0°-30°)	622.3	3.8	B2/1000		
BM	(30°-60°)	1088.7	6.6	B2/2500		
BH	(60°-80°)	476.6	2.9	B1/500		G1/500
BVH	(80°-90°)	30.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	2898.1	2898.1	2898.1	2898.1	2898.1	2898.1	2898.1	2898.1	2898.1	2898.1	2898.1
2.5°	3014.5	3029.4	3022.0	3011.7	3005.2	2998.7	2989.4	2962.3	2940.9	2917.6	2881.3
5°	3036.9	3046.2	3039.7	3026.6	3011.7	3005.2	2987.5	2952.1	2917.6	2878.5	2824.5
7.5°	3023.8	3027.6	3020.1	3004.3	2991.2	2979.1	2958.6	2919.5	2877.6	2830.1	2759.3
10°	2977.2	2991.2	2991.2	2978.2	2965.1	2958.6	2938.1	2900.9	2862.7	2808.6	2724.8
12.5°	2939.1	2954.0	2966.1	2962.3	2961.4	2961.4	2945.6	2917.6	2872.9	2821.7	2722.0
15°	2913.0	2930.7	2956.8	2971.7	2981.0	2983.8	2977.2	2953.0	2907.4	2847.8	2733.2
17.5°	2907.4	2928.8	2976.3	3008.9	3033.1	3032.2	3030.3	2996.8	2946.5	2885.0	2747.2
20°	2932.5	2960.5	3026.6	3077.9	3113.3	3106.7	3096.5	3052.7	2994.0	2925.1	2760.2
22.5°	3008.0	3036.9	3109.5	3165.4	3199.9	3199.9	3169.2	3111.4	3049.0	2971.7	2777.9
25°	3116.1	3147.7	3225.0	3281.9	3297.7	3285.6	3254.9	3185.0	3113.3	3038.7	2815.2
27.5°	3248.3	3286.5	3358.3	3405.8	3401.1	3391.8	3360.1	3270.7	3199.0	3131.0	2878.5
30°	3413.2	3441.2	3515.7	3526.9	3510.1	3508.2	3463.5	3374.1	3307.0	3254.9	2968.9
32.5°	3568.8	3593.9	3653.6	3658.2	3628.4	3632.1	3590.2	3508.2	3470.0	3451.4	3120.7
35°	3733.7	3746.7	3797.9	3792.4	3772.8	3770.0	3753.2	3675.0	3687.1	3720.6	3335.9
37.5°	3871.5	3897.6	3926.5	3931.2	3930.2	3939.5	3950.7	3913.5	3983.3	4088.6	3618.2
40°	3998.2	4020.6	4063.4	4078.3	4114.7	4133.3	4171.5	4172.4	4333.6	4506.9	3965.6
42.5°	4083.9	4122.1	4202.2	4229.3	4317.8	4373.7	4430.5	4491.0	4724.8	4947.5	4375.5
45°	4158.5	4208.8	4342.0	4425.8	4546.0	4614.0	4734.2	4860.9	5197.1	5488.7	4791.9
47.5°	4271.2	4315.9	4468.7	4616.8	4798.4	4876.7	5056.5	5245.6	5685.3	6004.8	5190.6
50°	4427.7	4454.7	4610.3	4851.5	5083.5	5184.1	5421.7	5694.6	6207.0	6514.4	5540.9
52.5°	4628.0	4639.1	4763.0	5084.4	5390.0	5514.8	5829.7	6148.3	6663.4	6956.9	5818.5
55°	4864.6	4845.9	4942.8	5331.3	5740.2	5903.3	6241.4	6607.5	7176.7	7314.6	6020.6
57.5°	5098.4	5069.5	5146.8	5631.3	6172.5	6369.0	6763.1	7080.7	7635.0	7649.0	6162.2
60°	5346.2	5324.8	5417.0	5983.4	6702.5	6935.4	7299.7	7571.7	8078.4	7881.9	6184.6
62.5°	5600.5	5566.0	5697.4	6379.3	7299.7	7511.1	7864.2	8093.3	8513.5	7968.5	5969.4
65°	5847.4	5831.5	6034.6	6849.7	7979.7	8220.0	8562.9	8718.4	8861.9	7838.1	5435.6
67.5°	6110.1	6141.7	6465.9	7477.6	8866.5	9168.4	9538.2	9391.9	8961.6	7220.5	4577.7
70°	6510.6	6531.1	7032.3	8300.2	10009.6	10373.8	10552.7	9631.3	8480.9	6047.7	3441.2
72.5°	6683.0	6773.3	7538.1	9163.7	11308.1	11530.8	10893.6	9097.6	7064.9	4108.2	1808.1
73°	6644.8	6752.8	7561.4	9295.1	11409.7	11643.5	10820.9	8822.8	6567.5	3538.0	1550.1
75°	6168.8	6302.0	7258.7	9185.1	11212.2	11072.5	9652.8	7519.5	4437.9	1608.8	706.1
77.5°	4867.4	4905.6	5751.4	7417.0	8829.3	8570.3	7224.2	4699.7	1812.8	598.1	400.6
80°	2441.6	2582.3	3241.8	4248.8	5904.2	5819.4	4560.0	2222.7	755.5	351.2	265.5
82.5°	1174.7	1274.4	1579.0	2071.8	3262.3	3185.0	2258.1	1214.7	479.8	204.9	156.5
85°	756.4	830.9	1005.1	988.4	1341.4	1280.9	1014.5	919.4	284.1	107.1	109.0
87.5°	499.3	546.8	655.8	524.5	488.1	441.6	448.1	517.9	55.9	41.0	14.9
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°	2898.1	2898.1	2898.1	2898.1	2898.1	2898.1	2898.1	2898.1	2898.1	2898.1	2898.1
2.5°	2866.4	2854.3	2814.2	2775.1	2737.8	2702.4	2679.2	2648.4	2627.9	2633.5	2641.9
5°	2794.7	2767.6	2696.9	2627.9	2562.7	2485.4	2423.0	2372.7	2334.5	2320.5	2317.7
7.5°	2719.2	2673.6	2572.0	2453.7	2342.9	2246.9	2136.1	2081.1	2016.8	1994.5	1987.0
10°	2673.6	2612.1	2469.6	2304.7	2137.9	1978.6	1858.5	1760.6	1672.1	1655.4	1647.0
12.5°	2660.5	2579.5	2387.6	2175.2	1953.5	1757.8	1579.9	1451.4	1365.7	1346.1	1317.2
15°	2653.1	2552.5	2311.2	2044.8	1763.4	1525.0	1337.7	1187.7	1109.5	1057.3	1058.2
17.5°	2646.5	2521.7	2225.5	1902.2	1599.5	1324.7	1117.9	982.8	911.1	883.1	880.3
20°	2637.2	2485.4	2126.7	1752.3	1412.2	1142.1	954.8	854.2	805.8	782.5	781.6
22.5°	2633.5	2450.0	2029.9	1599.5	1246.4	1001.4	846.8	776.0	745.2	729.4	729.4
25°	2642.8	2424.8	1928.3	1454.2	1099.2	881.3	772.3	723.8	706.1	697.7	694.9
27.5°	2671.7	2413.7	1827.7	1308.8	964.2	799.3	722.0	688.4	675.4	668.9	669.8
30°	2726.7	2412.7	1729.0	1165.4	863.6	736.9	681.9	658.6	648.4	644.6	643.7
32.5°	2815.2	2433.2	1632.1	1047.1	778.8	684.7	644.6	627.9	623.2	620.4	619.5
35°	2965.1	2491.0	1536.1	939.0	713.6	638.1	609.2	600.9	594.3	597.1	598.1
37.5°	3167.3	2590.7	1444.8	854.2	664.2	603.6	579.4	572.0	568.2	571.0	573.8
40°	3438.4	2734.1	1368.5	786.2	628.8	574.8	553.3	546.8	543.1	547.8	548.7
42.5°	3737.4	2899.9	1305.1	733.1	599.9	550.5	530.1	522.6	519.8	522.6	523.5
45°	4044.8	3092.8	1272.5	694.9	575.7	532.8	511.4	503.0	496.5	494.7	497.5
47.5°	4347.6	3260.4	1271.6	671.7	556.1	517.0	493.7	484.4	476.0	471.4	470.4
50°	4594.4	3393.7	1293.9	661.4	539.4	499.3	476.0	466.7	455.5	446.2	448.1
52.5°	4780.7	3480.3	1304.2	656.7	530.1	480.7	457.4	449.0	436.0	423.9	423.9
55°	4900.9	3500.8	1279.0	652.1	522.6	461.1	436.0	428.5	415.5	403.4	403.4
57.5°	4941.9	3437.4	1188.7	640.9	515.1	444.4	414.5	408.0	397.8	385.7	383.8
60°	4846.9	3223.2	1030.3	607.4	500.2	426.7	391.3	388.5	384.7	374.5	373.6
62.5°	4480.8	2768.6	858.0	563.6	475.1	408.0	369.8	374.5	377.3	371.7	370.8
65°	3871.5	2247.8	733.1	503.0	441.6	381.9	346.5	358.6	366.1	366.1	364.2
67.5°	3140.3	1726.2	617.6	450.9	399.6	346.5	320.5	329.8	335.4	333.5	338.2
70°	2232.0	1169.1	503.0	391.3	346.5	306.5	286.9	286.9	283.2	281.3	281.3
72.5°	1082.5	667.9	408.0	327.0	295.3	261.8	245.9	239.4	232.0	231.0	226.4
73°	904.5	599.0	389.4	314.9	283.2	255.2	237.5	227.3	222.6	218.9	218.0
75°	550.5	454.6	325.1	265.5	241.3	219.8	204.0	194.7	190.0	187.2	186.3
77.5°	362.4	339.1	252.5	203.1	184.4	171.4	164.9	155.6	152.8	149.0	149.0
80°	270.2	259.0	180.7	143.5	132.3	121.1	119.2	117.4	109.9	105.3	103.4
82.5°	174.2	184.4	123.0	96.0	83.8	74.5	75.5	78.3	70.8	64.3	62.4
85°	123.9	133.2	74.5	43.8	35.4	30.7	34.5	30.7	31.7	25.2	20.5
87.5°	20.5	35.4	13.0	5.6	2.8	1.9	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)