

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: P458042

Luminaire Tested: **GALN-SA9B-830-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458042
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40650 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 364
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

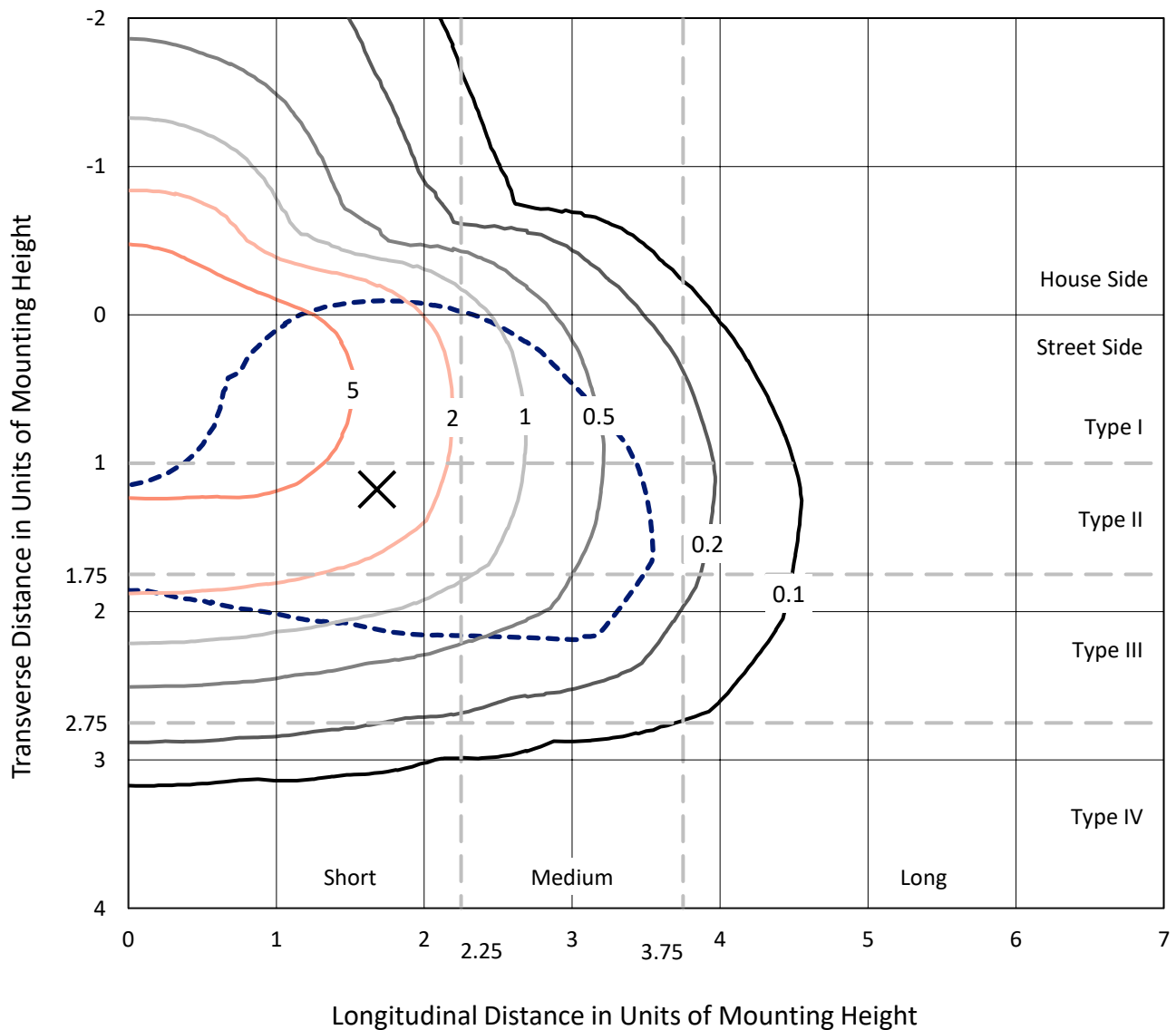


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

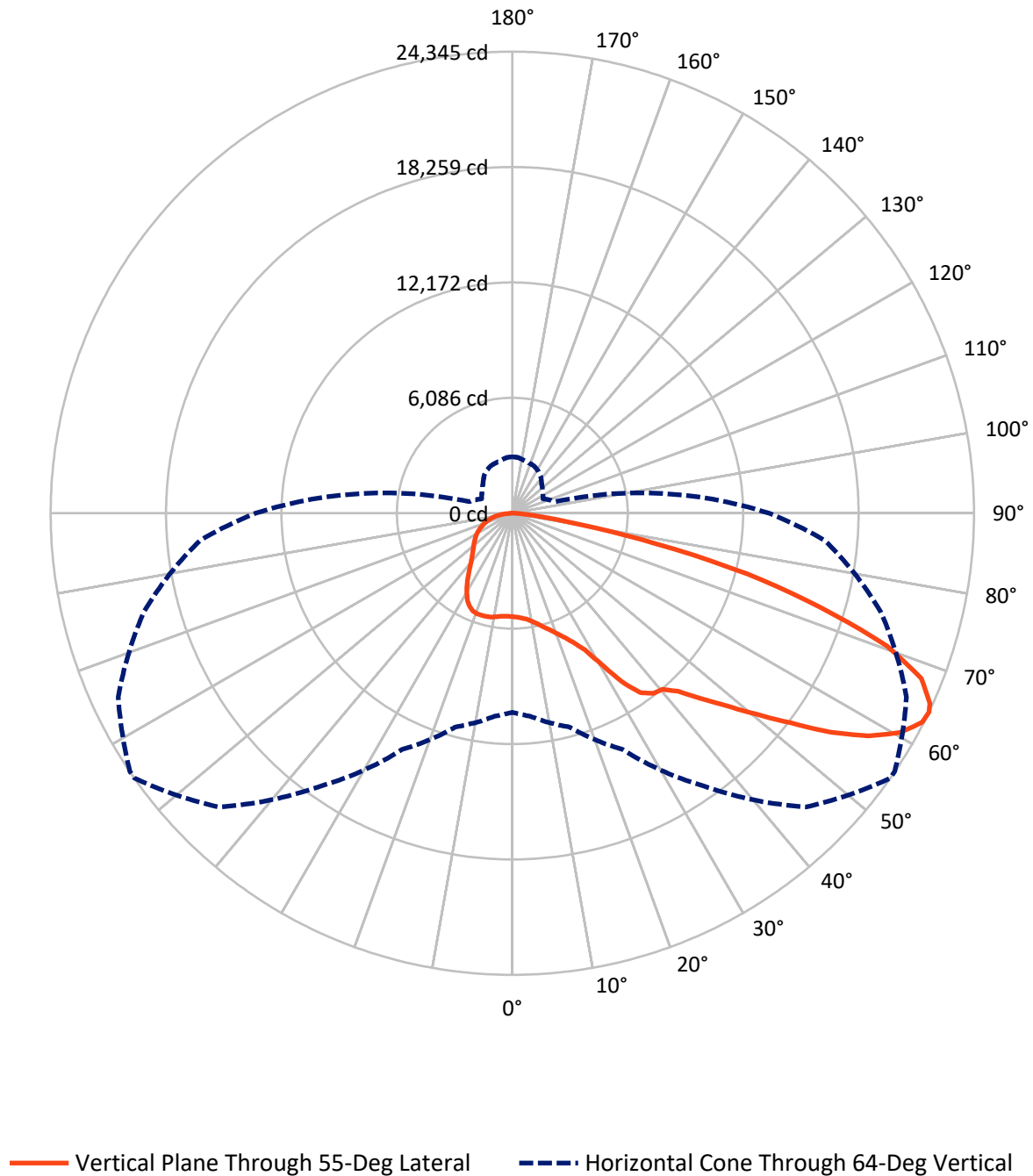


Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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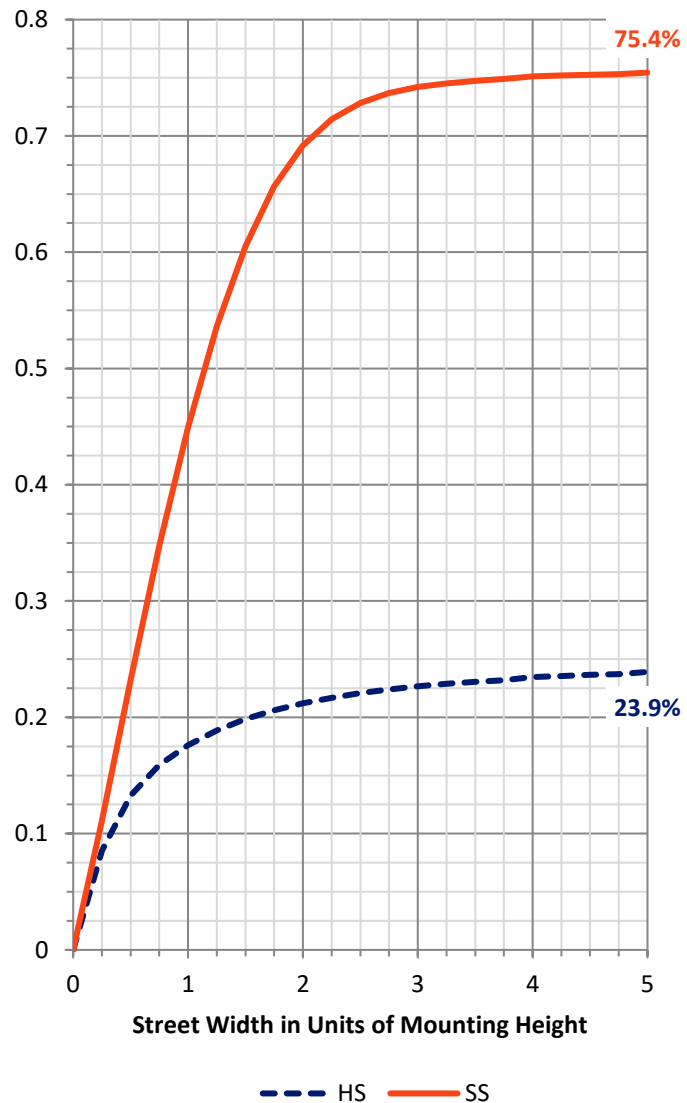
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9874.7	0.0	9874.7
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	30775.3	0.0	30775.3
	% Fixture	75.7	0.0	75.7
Total	Lumens	40650.0	0.0	40650.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	530.5	1.3
10°-20°	1674.0	4.1
20°-30°	2980.1	7.3
30°-40°	4585.2	11.3
40°-50°	6500.0	16.0
50°-60°	9408.5	23.1
60°-70°	9736.8	24.0
70°-80°	4559.8	11.2
80°-90°	675.0	1.7
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°	40650.0	100.0
0°-180°	40650.0	100.0

Coefficient of Utilization



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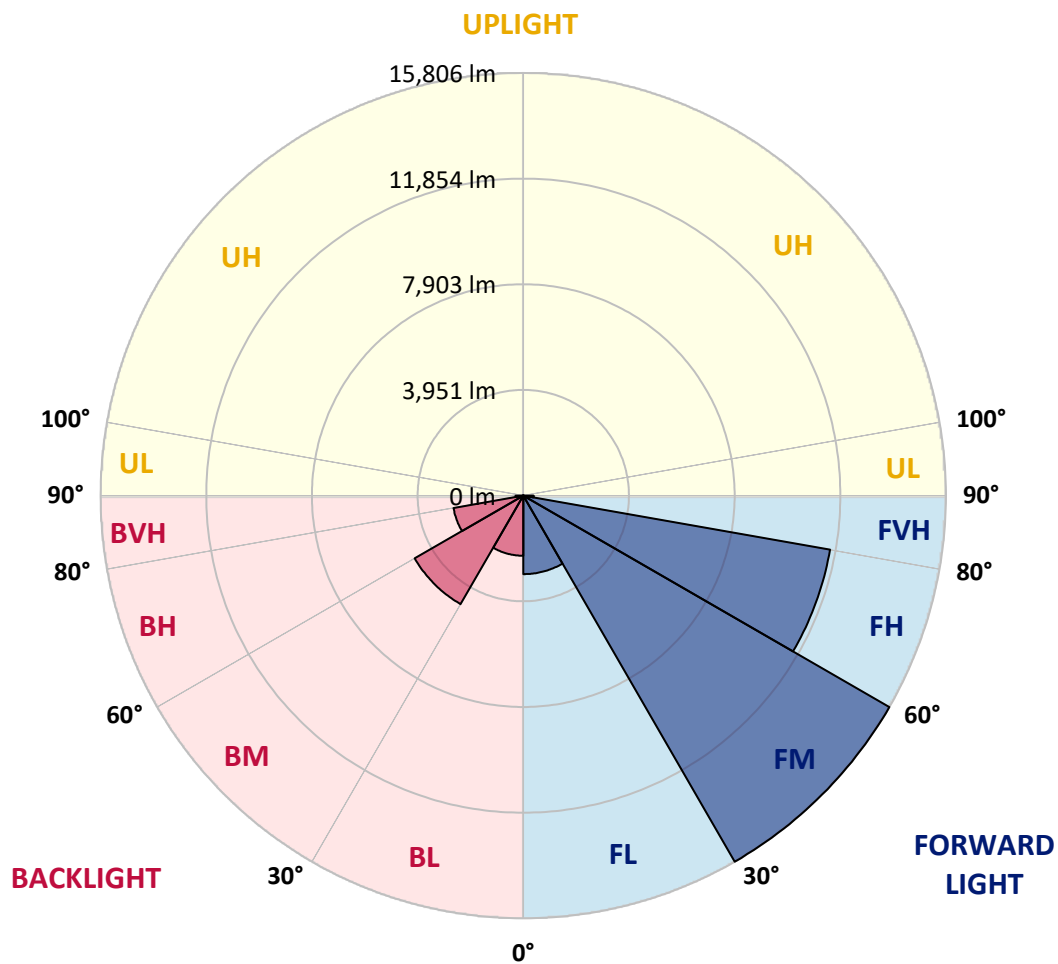
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2935.6	7.2			
FM	(30°-60°)	15805.8	38.9			
FH	(60°-80°)	11647.4	28.7			G4/12000
FVH	(80°-90°)	386.5	1.0			G3/500
BL	(0°-30°)	2249.1	5.5	B3/2500		
BM	(30°-60°)	4687.9	11.5	B3/5000		
BH	(60°-80°)	2649.2	6.5	B4/5000		G4/5000
BVH	(80°-90°)	288.5	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5454.0	5454.0	5454.0	5454.0	5454.0	5454.0	5454.0	5454.0	5454.0	5454.0	5454.0
2.5°	5515.2	5512.9	5519.7	5512.9	5517.4	5501.6	5494.8	5499.3	5492.5	5481.2	5460.8
5°	5583.2	5580.9	5583.2	5574.1	5578.6	5569.6	5553.7	5558.2	5546.9	5522.0	5492.5
7.5°	5698.7	5689.7	5689.7	5687.4	5678.3	5664.7	5653.4	5648.9	5637.5	5605.8	5560.5
10°	5848.3	5848.3	5850.5	5832.4	5843.7	5818.8	5807.5	5805.2	5766.7	5725.9	5662.5
12.5°	6045.4	6056.7	6049.9	6040.9	6036.3	6027.3	5988.8	5997.8	5954.8	5884.5	5807.5
15°	6290.1	6308.2	6296.9	6292.4	6281.1	6247.1	6231.2	6224.4	6167.8	6065.8	5963.8
17.5°	6614.1	6591.5	6582.4	6571.1	6523.5	6498.6	6471.4	6466.9	6417.0	6296.9	6138.3
20°	6897.4	6929.1	6911.0	6899.6	6852.1	6804.5	6784.1	6777.3	6734.2	6602.8	6349.0
22.5°	7235.0	7241.8	7248.6	7221.4	7198.7	7162.5	7126.2	7114.9	7099.0	6963.1	6652.7
25°	7595.3	7622.5	7599.8	7572.6	7545.4	7543.2	7577.1	7572.6	7565.8	7434.4	7056.0
27.5°	8182.1	8207.1	8213.9	8184.4	8080.2	8089.2	8166.3	8191.2	8295.4	8077.9	7574.9
30°	8513.0	8537.9	8594.5	8705.6	8871.0	9016.0	9201.8	9258.4	9358.1	8948.0	8191.2
32.5°	8716.9	8726.0	8827.9	9034.1	9530.3	10071.9	10577.2	10597.6	10661.0	10085.5	8755.4
35°	9038.6	9045.4	9127.0	9353.6	9935.9	10837.8	11619.5	11644.4	11592.3	10439.0	9018.3
37.5°	9435.2	9453.3	9505.4	9693.5	10389.1	11479.0	12052.3	12034.2	11571.9	10719.9	9482.8
40°	10013.0	10013.0	9951.8	10205.6	10867.2	11846.1	12204.1	12172.4	12050.0	11533.4	10189.7
42.5°	10522.8	10513.7	10658.8	10831.0	11465.4	12412.6	12840.8	12892.9	13094.6	12555.3	10994.1
45°	11186.7	11227.5	11309.1	11621.8	12482.8	13380.1	13933.0	13982.8	14268.3	13758.5	11934.5
47.5°	11857.4	11871.0	12127.1	12544.0	13742.6	14692.0	15145.2	15226.8	15487.4	15165.6	12947.3
50°	12333.3	12462.4	12872.5	13529.6	15041.0	16291.8	16645.2	16742.7	17202.7	16697.4	14127.8
52.5°	12836.3	12963.2	13463.9	14465.5	16532.0	17927.7	18362.8	18428.5	18906.6	18247.2	15335.6
55°	13266.8	13384.6	13953.4	15294.8	17719.3	19597.7	20386.2	20309.2	20538.0	19441.4	16266.8
57.5°	13337.0	13432.2	14148.2	15825.0	18612.0	21029.7	22160.4	22205.7	21940.6	20334.1	17035.0
60°	12793.2	12988.1	13810.6	15768.3	19013.1	22026.7	23483.7	23515.4	22763.2	20791.8	17340.9
62.5°	11830.2	11809.8	12804.6	14857.5	18451.2	22253.3	24263.2	24229.2	23084.9	20572.0	17044.0
64°	10500.1	10744.9	11673.9	13738.1	17544.8	21904.4	24344.7	24326.6	22930.8	20114.3	16538.7
65°	9689.0	9675.4	10593.0	12822.7	16643.0	21378.7	24199.7	24174.8	22609.1	19704.2	16146.7
67.5°	6994.8	7026.5	7932.9	9895.2	13529.6	19323.5	23254.9	23162.0	21340.2	18344.7	14655.8
70°	4237.2	4255.3	4966.8	6564.3	9711.6	15621.1	20961.8	20966.3	19398.3	16314.4	12473.7
72.5°	2231.9	2279.5	2565.0	3727.4	5898.1	10960.1	17005.5	17408.9	16654.3	13923.9	9854.4
75°	1241.7	1248.5	1450.2	1837.6	3009.1	6133.8	12781.9	12897.5	13185.2	11207.1	7287.1
77.5°	947.1	960.7	1024.2	1187.3	1638.2	2843.7	7735.8	8315.8	9292.4	7901.2	4157.9
80°	768.1	781.7	836.1	933.5	1089.9	1348.2	3593.7	3906.4	4973.6	3507.6	1622.4
82.5°	598.2	589.1	659.4	722.8	793.1	797.6	1475.1	1631.4	2025.7	1509.1	702.4
85°	444.1	444.1	500.8	487.2	512.1	466.8	650.3	718.3	811.2	641.2	326.3
87.5°	176.7	194.9	328.6	294.6	228.9	183.5	240.2	253.8	281.0	251.5	136.0
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°	5454.0	5454.0	5454.0	5454.0	5454.0	5454.0	5454.0	5454.0	5454.0	5454.0	5454.0
2.5°	5463.1	5469.9	5454.0	5442.7	5438.1	5431.3	5424.5	5426.8	5435.9	5444.9	5442.7
5°	5490.3	5492.5	5465.3	5451.7	5442.7	5433.6	5433.6	5440.4	5458.5	5472.1	5472.1
7.5°	5558.2	5558.2	5519.7	5494.8	5481.2	5465.3	5460.8	5463.1	5476.7	5494.8	5497.1
10°	5664.7	5655.7	5605.8	5567.3	5542.4	5503.9	5469.9	5451.7	5458.5	5469.9	5469.9
12.5°	5793.9	5769.0	5705.5	5653.4	5592.2	5519.7	5449.5	5413.2	5411.0	5422.3	5417.7
15°	5932.1	5904.9	5816.5	5721.4	5614.9	5508.4	5424.5	5372.4	5331.6	5320.3	5345.2
17.5°	6093.0	6036.3	5914.0	5782.6	5623.9	5485.7	5354.3	5247.8	5175.3	5154.9	5161.7
20°	6287.9	6213.1	6047.7	5841.5	5617.1	5404.2	5200.2	5057.5	4939.6	4903.4	4907.9
22.5°	6557.5	6428.3	6185.9	5870.9	5560.5	5250.1	4966.8	4781.0	4638.3	4581.6	4615.6
25°	6863.4	6722.9	6317.3	5864.1	5413.2	5003.1	4690.4	4447.9	4318.8	4235.0	4253.1
27.5°	7284.8	7035.6	6457.8	5803.0	5202.5	4701.7	4339.2	4110.3	3992.5	3949.5	3969.8
30°	7824.1	7441.2	6609.6	5637.5	4869.4	4321.1	3985.7	3836.2	3765.9	3711.5	3729.7
32.5°	8213.9	7726.7	6643.6	5358.8	4509.1	3974.4	3745.5	3634.5	3557.5	3505.3	3516.7
35°	8492.6	7969.1	6627.7	5016.7	4133.0	3688.9	3555.2	3464.5	3339.9	3226.6	3206.2
37.5°	8866.4	8272.8	6512.2	4642.8	3761.4	3496.3	3401.1	3233.4	3054.4	2902.6	2895.8
40°	9439.7	8628.5	6265.2	4203.2	3444.2	3353.5	3238.0	3020.4	2827.8	2705.5	2696.4
42.5°	10031.1	8957.1	5929.8	3741.0	3183.6	3204.0	3063.5	2848.2	2730.4	2651.1	2642.0
45°	10753.9	9312.8	5567.3	3339.9	2991.0	3063.5	2911.7	2787.0	2716.8	2664.7	2651.1
47.5°	11535.7	9677.6	5159.4	2979.6	2827.8	2934.3	2848.2	2791.6	2753.1	2716.8	2700.9
50°	12378.6	10085.5	4776.5	2689.6	2680.6	2800.6	2841.4	2821.0	2798.4	2787.0	2773.5
52.5°	13303.1	10502.4	4454.7	2485.7	2551.4	2705.5	2843.7	2859.6	2859.6	2852.8	2843.7
55°	13928.4	10792.4	4128.5	2320.3	2420.0	2628.4	2839.2	2900.3	2923.0	2913.9	2904.9
57.5°	14390.7	10951.1	3718.3	2177.5	2308.9	2553.7	2814.2	2904.9	2927.5	2938.9	2934.3
60°	14485.9	10803.8	3181.3	2028.0	2188.9	2444.9	2723.6	2836.9	2866.4	2936.6	2943.4
62.5°	14057.6	10350.6	2646.6	1880.7	2041.6	2279.5	2601.2	2759.9	2818.8	2927.5	2938.9
64°	13531.9	9843.0	2349.7	1787.8	1946.4	2186.6	2540.1	2739.5	2816.5	2961.5	2970.6
65°	13146.7	9473.7	2163.9	1728.9	1885.2	2125.4	2506.1	2746.3	2836.9	3013.6	3027.2
67.5°	11728.3	8202.5	1790.1	1590.7	1740.2	2021.2	2512.9	2802.9	2832.4	3034.0	3031.8
70°	9704.8	6530.3	1500.0	1463.8	1599.7	1937.3	2485.7	2712.3	2714.5	2848.2	2816.5
72.5°	7266.7	4826.4	1300.6	1332.3	1443.4	1737.9	2347.5	2589.9	2551.4	2569.5	2537.8
75°	4991.8	3192.6	1119.4	1191.9	1280.2	1536.3	2152.6	2352.0	2290.8	2268.2	2245.5
77.5°	2664.7	1765.1	931.3	1053.6	1112.6	1327.8	1878.4	2071.0	2007.6	1919.2	1889.8
80°	1078.6	831.6	750.0	872.4	906.4	1069.5	1563.5	1683.6	1636.0	1481.9	1432.0
82.5°	541.5	498.5	589.1	686.6	688.8	763.6	1162.4	1275.7	1169.2	981.1	938.1
85°	283.2	292.3	405.6	482.6	426.0	412.4	697.9	772.7	709.2	616.3	555.1
87.5°	102.0	117.8	213.0	210.7	149.5	79.3	154.1	74.8	40.8	24.9	31.7
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)