

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: P652575

Luminaire Tested: **GALN-SA8B-840-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652575  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8B-840-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38862.6 lumens  
Efficiency: N/A  
Efficacy: 119.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B3 - U0 - G5

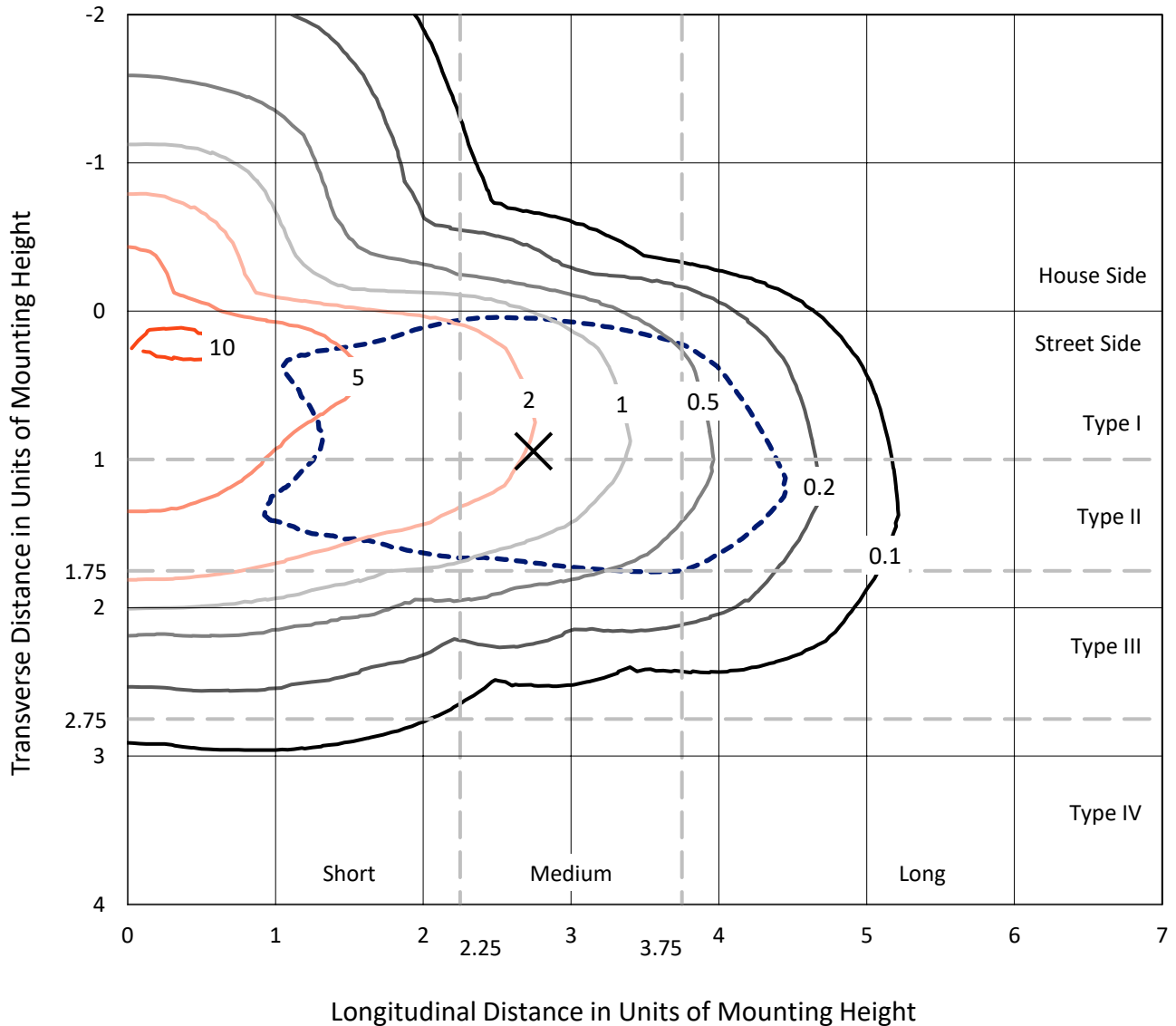
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

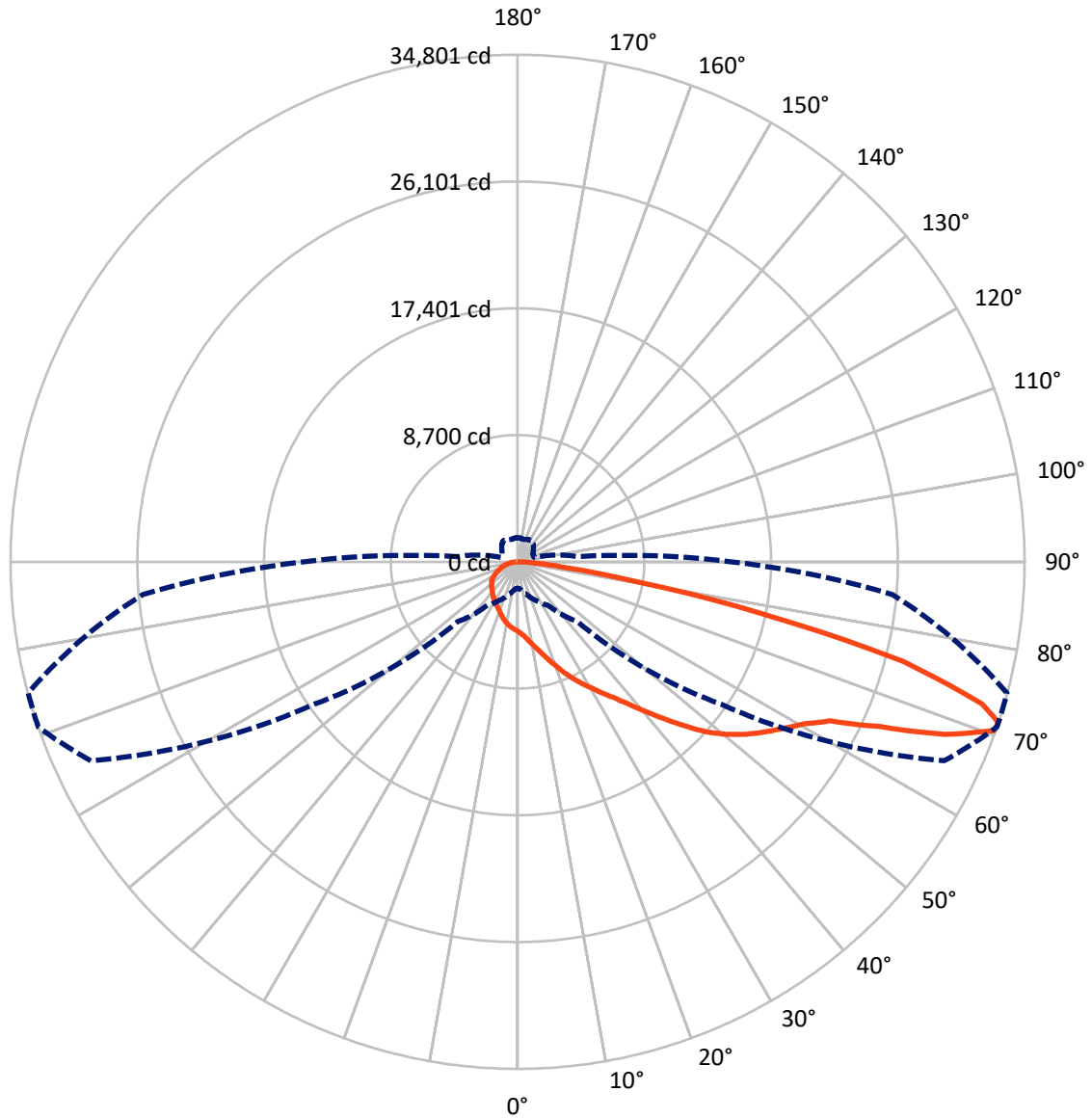
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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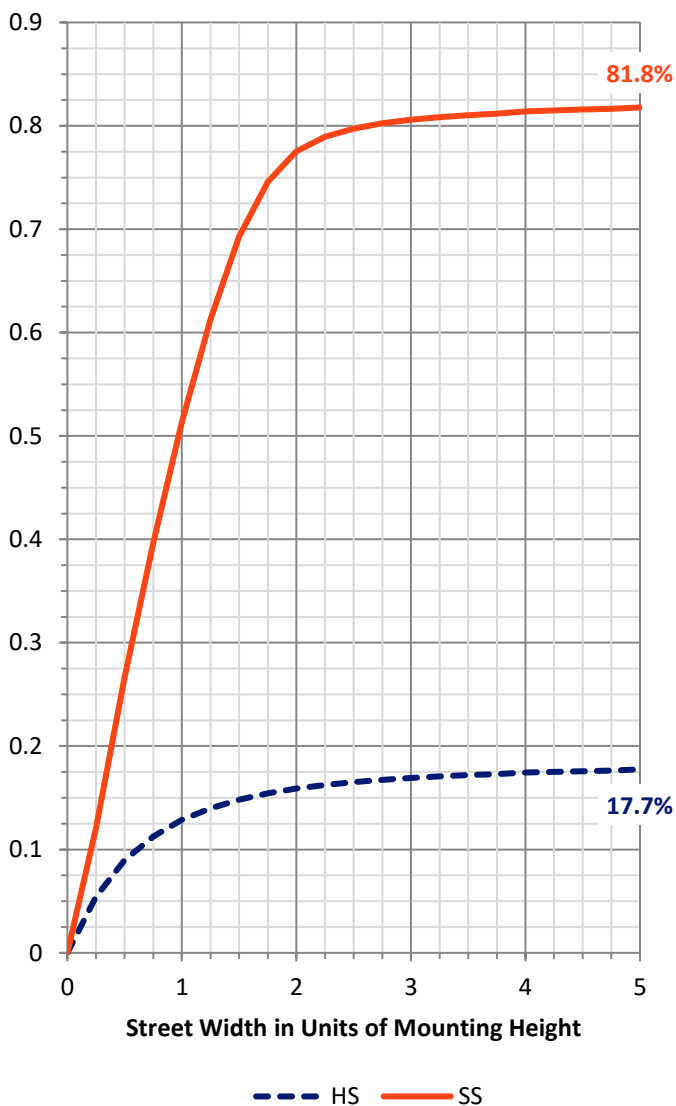
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6989.3	0.0	6989.3
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	31873.3	0.0	31873.3
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	38862.6	0.0	38862.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	478.9	1.2
10°-20°	1555.9	4.0
20°-30°	2719.1	7.0
30°-40°	4044.3	10.4
40°-50°	5958.7	15.3
50°-60°	8342.3	21.5
60°-70°	9330.6	24.0
70°-80°	5699.5	14.7
80°-90°	733.2	1.9
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°	38862.6	100.0
0°-180°	38862.6	100.0

**Coefficient of Utilization**



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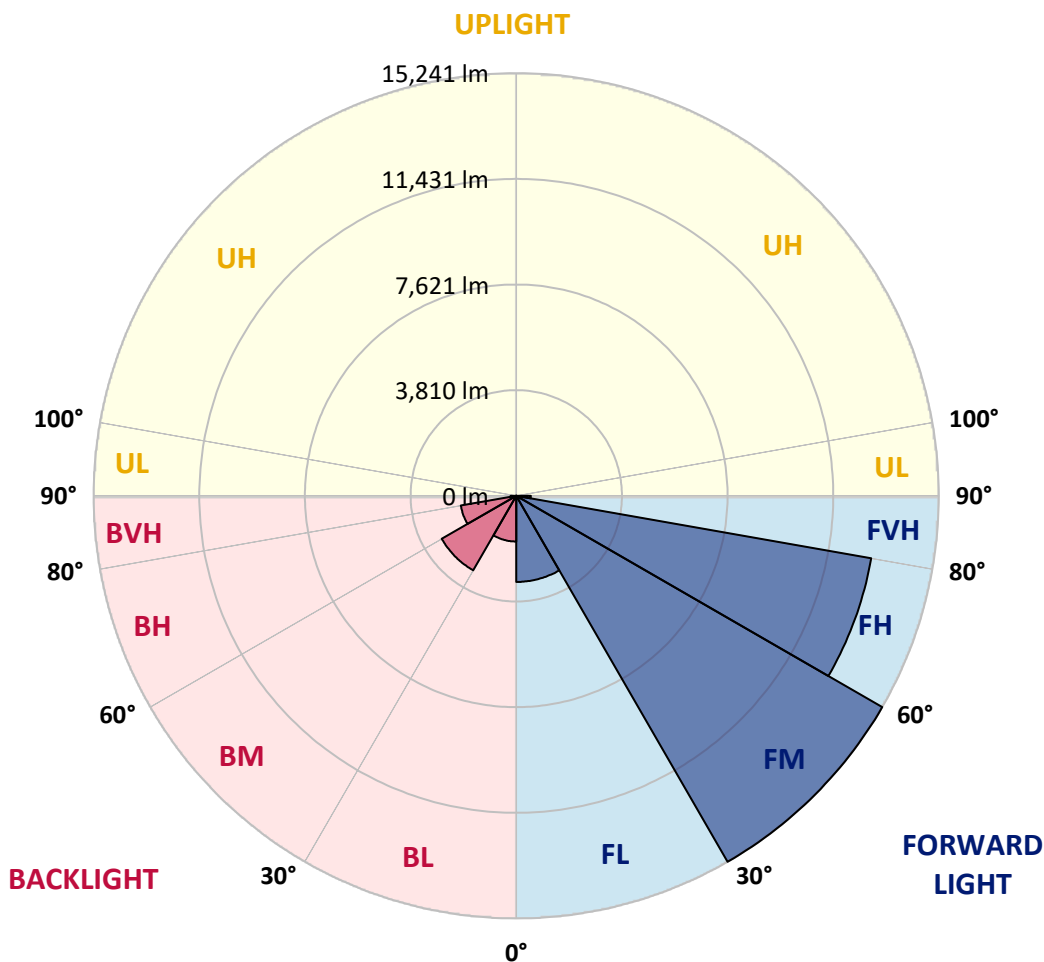
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3105.1	8.0			
FM (30°-60°)	15241.2	39.2			
FH (60°-80°)	12999.4	33.4			G5
FVH (80°-90°)	527.6	1.4			G4/750
BL (0°-30°)	1648.8	4.2	B3/2500		
BM (30°-60°)	3104.2	8.0	B3/5000		
BH (60°-80°)	2030.7	5.2	B3/2500		G3/2500
BVH (80°-90°)	205.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	4769.6	4769.6	4769.6	4769.6	4769.6	4769.6	4769.6	4769.6	4769.6	4769.6	4769.6
2.5°	5295.1	5269.5	5271.6	5235.2	5188.3	5137.0	5064.4	5000.3	4949.0	4919.2	4831.5
5°	5867.5	5841.8	5809.8	5730.8	5696.6	5570.6	5410.4	5265.2	5154.1	5092.2	4917.0
7.5°	6331.0	6324.6	6316.1	6271.2	6183.6	6008.4	5871.8	5619.7	5455.2	5337.8	5038.8
10°	6617.2	6627.9	6634.3	6642.9	6606.6	6514.7	6326.8	6008.4	5799.1	5649.7	5196.8
12.5°	6762.5	6773.2	6809.5	6888.5	6937.7	6927.0	6773.2	6461.3	6172.9	5976.5	5365.6
15°	6852.2	6869.3	6933.4	7038.0	7202.5	7307.1	7232.4	6944.1	6627.9	6395.1	5566.3
17.5°	6950.4	6969.7	7040.2	7189.7	7405.4	7631.8	7713.0	7465.2	7121.3	6843.6	5790.6
20°	7006.0	7031.6	7132.0	7328.5	7580.5	7909.5	8178.6	8048.4	7672.4	7364.8	6049.1
22.5°	7095.7	7117.0	7202.5	7411.8	7713.0	8125.2	8644.3	8616.5	8285.4	7888.2	6333.2
25°	7339.2	7373.4	7416.1	7542.1	7832.6	8345.2	9030.9	9223.1	8879.2	8435.0	6593.8
27.5°	7798.4	7826.2	7824.1	7841.1	8005.6	8535.3	9366.2	9823.3	9468.7	8988.2	6845.7
30°	8321.7	8332.4	8341.0	8302.5	8338.9	8729.7	9673.8	10417.1	10062.6	9556.4	7065.7
32.5°	8958.2	8979.6	8907.0	8808.7	8778.9	9018.0	9928.0	11011.0	10765.3	10133.0	7283.6
35°	9710.1	9765.7	9618.3	9445.3	9323.5	9432.4	10269.7	11617.6	11485.1	10869.9	7572.0
37.5°	10568.8	10637.1	10500.4	10160.8	9987.8	10017.7	10716.2	12367.2	12395.0	11709.4	8001.4
40°	11271.5	11361.2	11365.5	10884.9	10622.2	10656.3	11282.2	13174.7	13492.9	12747.5	8507.6
42.5°	11735.0	11822.6	11914.4	11632.5	11356.9	11551.3	11942.2	14050.4	14727.5	14007.7	9214.6
45°	12243.4	12322.4	12373.6	12245.5	12091.7	12595.8	12738.9	14981.7	16043.3	15415.3	9987.8
47.5°	12832.9	12920.5	12969.6	12847.9	12790.2	13512.2	13597.5	15851.0	17448.7	16782.3	10842.2
50°	13618.9	13685.2	13659.5	13582.7	13569.8	14214.8	14422.1	16664.8	18608.6	18254.0	11728.6
52.5°	14597.2	14676.2	14704.0	14595.1	14545.9	14716.8	15086.4	17406.0	19663.8	19518.5	12674.9
55°	15188.9	15314.9	15737.8	15908.7	16026.2	15366.2	15801.9	18224.0	20610.0	20851.3	13691.6
57.5°	14430.6	14592.9	15539.2	16393.5	17497.8	16989.5	16816.5	19078.5	21556.2	22143.6	14909.1
60°	12580.9	12617.2	13836.8	15411.0	17632.4	19076.3	18933.3	20437.0	22581.4	23446.5	16513.2
62.5°	8727.6	8804.4	10246.2	12758.1	15970.7	19828.2	22534.5	22782.3	24051.0	25396.7	18864.9
65°	4500.5	4400.1	5713.8	8018.4	12040.4	18042.6	25452.2	27094.7	27237.9	28446.8	22175.7
67.5°	2770.3	2815.2	3430.4	4682.0	7119.1	13112.7	25146.7	32364.2	31610.2	32191.2	25249.3
70°	2080.5	2136.0	2558.9	3204.0	4340.3	7497.3	20223.4	33641.5	34694.5	34545.0	26184.9
71°	1809.2	1866.9	2306.9	2915.6	3646.1	5786.3	17038.7	32304.4	34801.3	34775.7	25832.4
72.5°	1542.1	1578.5	1922.4	2469.2	3073.7	4056.2	12800.9	28972.3	33316.8	34169.1	24574.4
75°	1211.1	1238.9	1392.6	1883.9	2420.1	2490.5	6869.3	21720.7	27363.9	28987.3	20458.3
77.5°	986.8	1006.0	1085.1	1399.1	1866.9	1764.3	3603.3	14138.0	17143.3	18777.3	12051.1
80°	783.9	805.3	852.3	948.4	1399.1	1258.1	1719.4	7164.1	8281.2	8264.1	4810.2
82.5°	608.7	615.2	670.7	696.3	956.9	892.8	931.3	3033.1	3359.9	3471.0	1736.6
85°	384.5	403.7	593.8	534.0	572.5	523.4	459.3	1204.6	1484.5	1463.2	694.2
87.5°	117.5	123.9	200.7	226.4	254.2	228.6	168.7	354.6	433.6	470.0	173.0
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°	4769.6	4769.6	4769.6	4769.6	4769.6	4769.6	4769.6	4769.6	4769.6	4769.6	4769.6
2.5°	4797.4	4773.9	4690.6	4622.2	4558.1	4487.7	4427.9	4410.8	4395.8	4389.4	4387.2
5°	4842.2	4771.7	4607.3	4472.7	4365.9	4267.7	4205.8	4177.9	4150.2	4150.2	4158.7
7.5°	4906.3	4778.1	4524.0	4323.2	4188.6	4096.8	4051.9	4047.6	4054.0	4060.5	4062.6
10°	4976.8	4773.9	4402.2	4152.4	4032.7	3990.0	3992.1	4028.5	4062.6	4088.3	4092.6
12.5°	5045.2	4748.3	4259.2	3992.1	3915.2	3923.8	3983.6	4064.7	4131.0	4167.2	4169.4
15°	5122.0	4707.7	4086.1	3840.5	3814.9	3881.0	3992.1	4116.0	4216.4	4276.2	4282.6
17.5°	5186.1	4639.3	3904.5	3693.1	3725.1	3846.9	4000.6	4160.8	4282.6	4357.4	4370.2
20°	5258.8	4551.7	3716.5	3552.1	3644.0	3808.5	3983.6	4156.6	4282.6	4355.2	4372.4
22.5°	5316.5	4427.9	3537.2	3436.7	3571.3	3761.5	3925.9	4064.7	4167.2	4205.8	4231.3
25°	5339.9	4271.9	3368.5	3342.8	3513.7	3684.5	3795.6	3874.7	3906.7	3902.4	3913.1
27.5°	5327.1	4092.6	3223.2	3268.0	3441.0	3564.9	3620.5	3614.0	3556.4	3503.0	3528.6
30°	5273.7	3878.9	3101.4	3191.2	3347.1	3415.4	3406.9	3323.5	3214.6	3114.2	3120.6
32.5°	5177.6	3648.3	2988.2	3103.5	3214.6	3244.6	3186.9	3077.9	2922.0	2791.7	2772.5
35°	5096.5	3428.3	2887.8	3003.2	3082.2	3067.2	3011.7	2870.8	2729.8	2614.4	2595.2
37.5°	5083.6	3240.3	2791.7	2889.9	2934.8	2913.5	2845.1	2725.5	2674.2	2586.7	2576.0
40°	5152.0	3107.8	2693.5	2770.3	2791.7	2774.6	2699.9	2631.5	2678.5	2657.1	2657.1
42.5°	5337.8	3037.4	2605.9	2650.7	2667.8	2680.6	2627.2	2569.6	2627.2	2529.0	2496.9
45°	5632.5	3039.5	2526.9	2533.3	2584.6	2629.4	2593.1	2507.6	2477.8	2281.2	2242.8
47.5°	6066.1	3112.1	2462.8	2422.2	2514.0	2588.8	2537.5	2413.7	2281.2	2150.9	2127.4
50°	6572.4	3242.4	2405.1	2306.9	2420.1	2537.5	2499.1	2353.9	2217.1	2138.1	2123.2
52.5°	7134.1	3406.9	2334.6	2178.7	2304.7	2514.0	2507.6	2345.3	2157.3	2103.9	2091.1
55°	7828.4	3569.2	2247.1	2029.2	2202.2	2494.8	2484.1	2274.8	2144.5	2106.0	2101.8
57.5°	8635.7	3804.2	2121.0	1877.5	2084.7	2415.8	2392.3	2232.1	2101.8	2074.0	2071.9
60°	9936.5	4169.4	1941.6	1738.7	1965.1	2276.9	2306.9	2159.4	2033.5	2027.1	2024.9
62.5°	11647.4	4682.0	1755.8	1595.5	1826.2	2097.5	2183.0	2061.2	1960.8	1992.8	1997.1
65°	14009.8	5113.5	1563.5	1473.9	1672.5	1924.5	2065.5	1969.4	1879.6	1941.6	1941.6
67.5°	15549.8	5122.0	1388.4	1347.8	1516.6	1779.3	1941.6	1860.5	1775.0	1879.6	1883.9
70°	15229.5	4487.7	1243.2	1215.3	1364.9	1623.3	1804.9	1740.8	1642.6	1736.6	1702.4
71°	14712.5	4135.2	1185.5	1164.1	1305.1	1548.6	1740.8	1687.4	1589.2	1651.1	1631.9
72.5°	13888.1	3590.6	1091.4	1095.7	1215.3	1454.6	1651.1	1595.5	1497.3	1531.5	1525.1
75°	11739.3	3135.6	933.4	952.6	1044.5	1294.4	1471.7	1428.9	1328.6	1328.6	1322.1
77.5°	7339.2	2191.5	775.3	786.0	886.4	1108.6	1264.5	1228.2	1132.1	1100.0	1091.4
80°	2738.3	1132.1	606.6	619.4	681.4	873.6	1046.6	1012.5	914.2	877.9	843.7
82.5°	1035.9	568.2	446.4	435.7	502.0	666.4	820.2	779.6	702.7	615.2	589.5
85°	390.9	282.0	273.4	264.8	294.8	395.2	508.4	499.8	418.6	356.7	350.3
87.5°	102.5	91.8	106.8	79.1	83.3	74.8	76.9	32.0	15.0	6.4	4.3
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)