

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: P647674

Luminaire Tested: **GALN-SA9D-835-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647674  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9D-835-U-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46060 lumens  
Efficiency: N/A  
Efficacy: 83.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

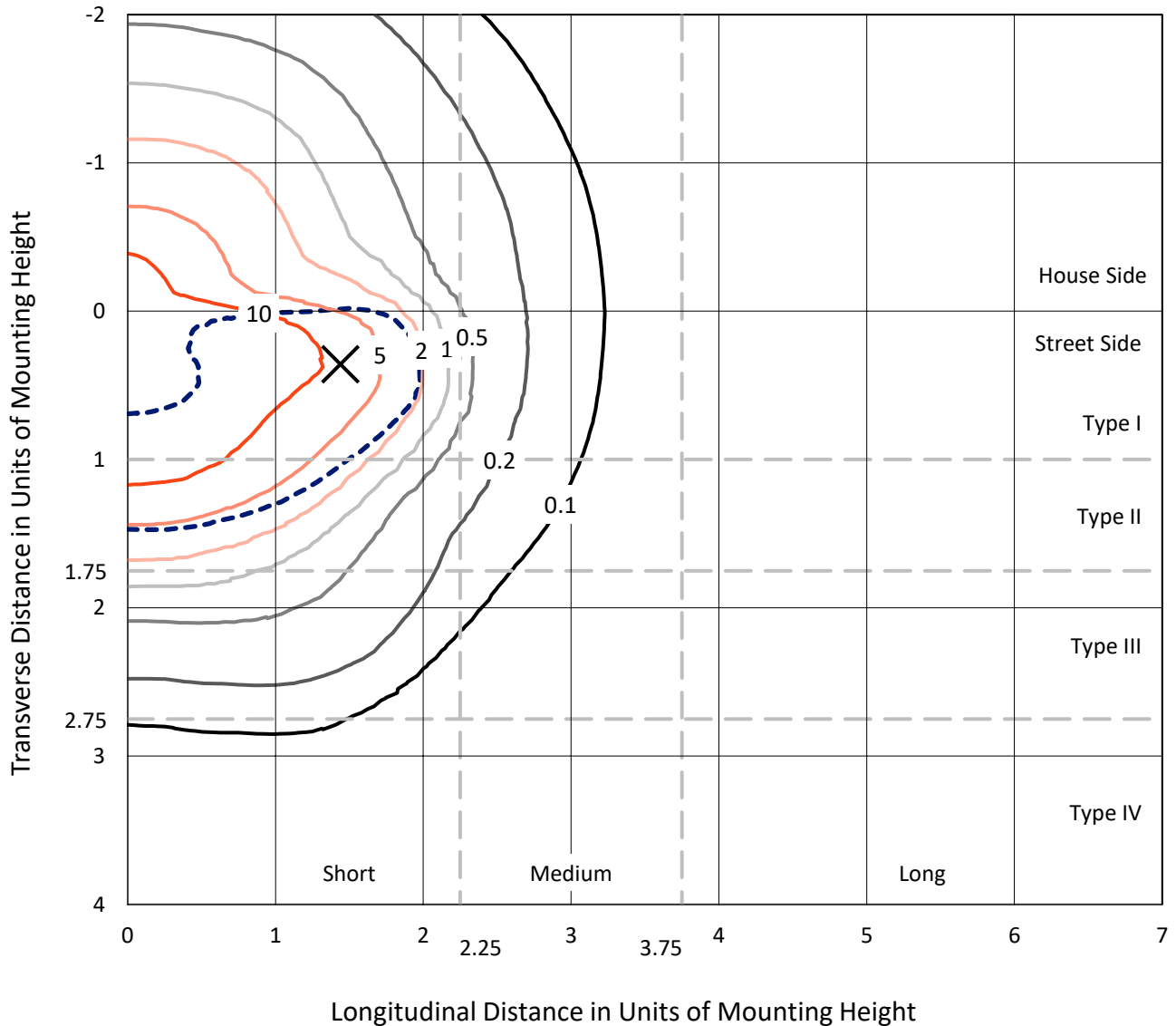
Input Watts (W): 552  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

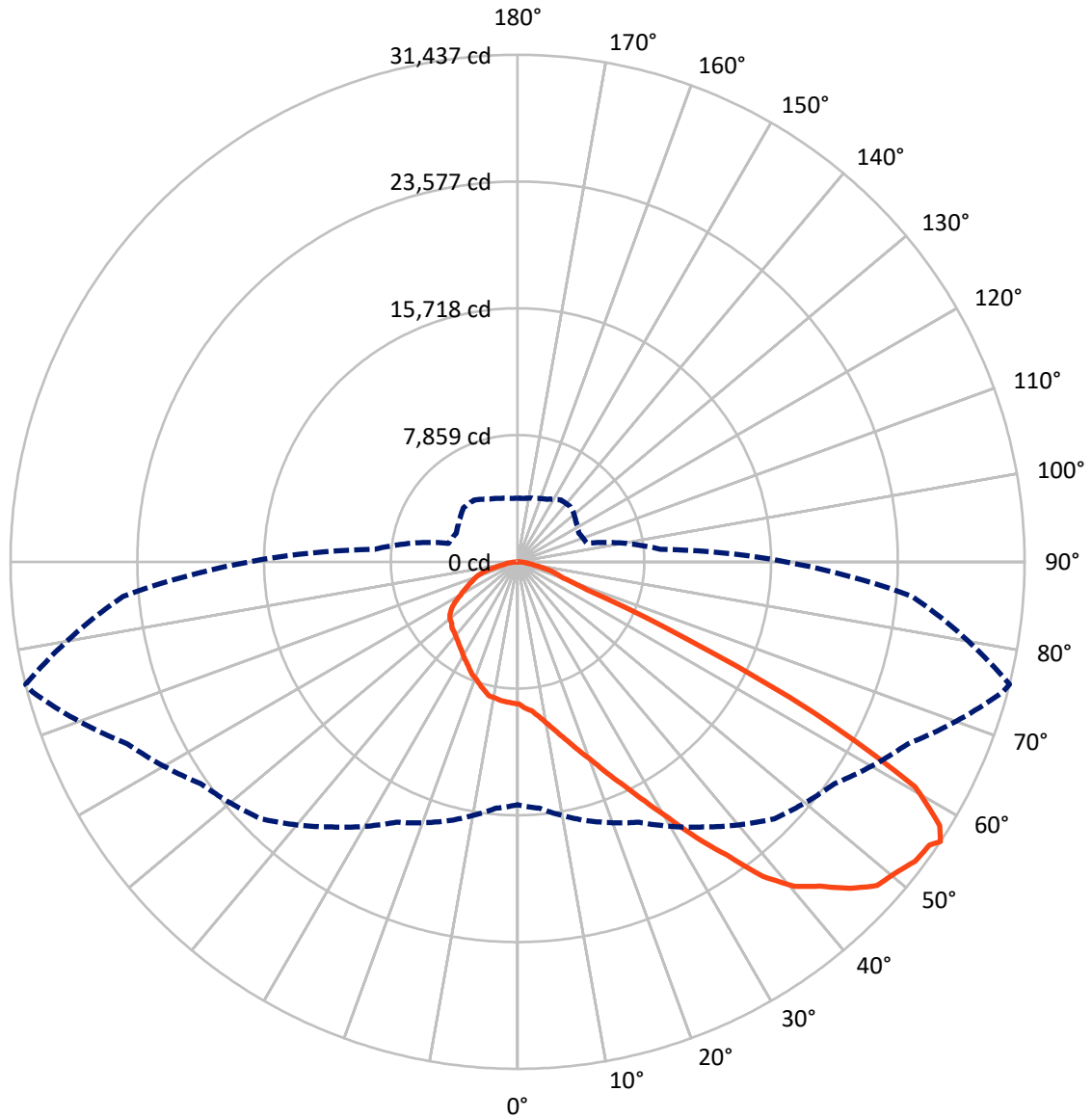
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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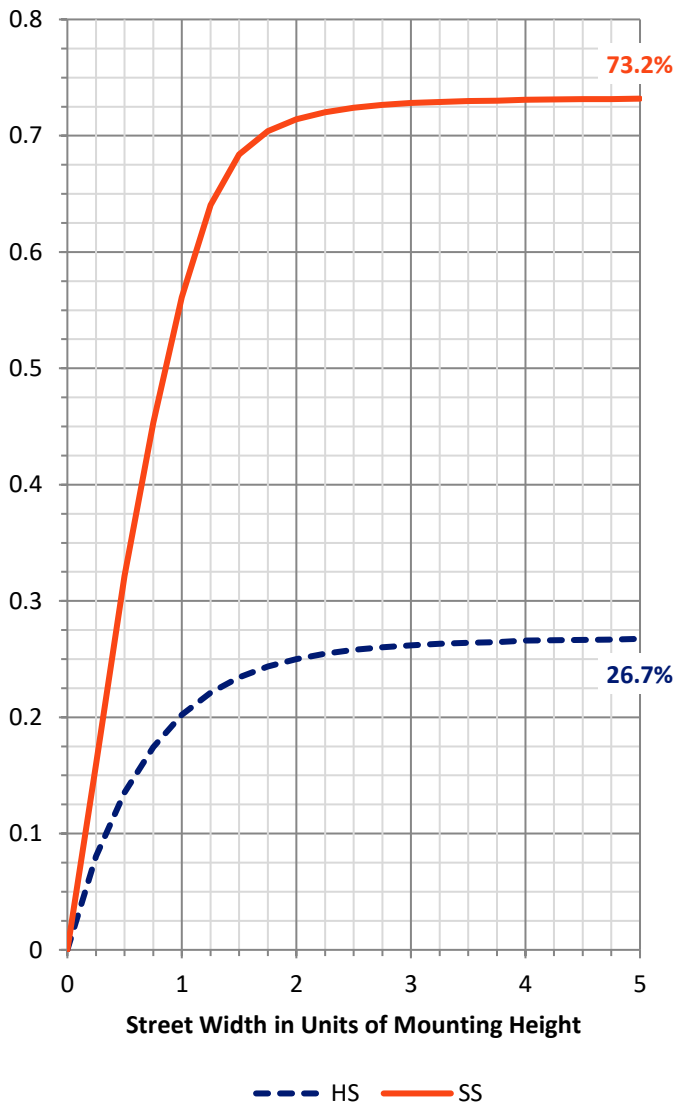
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12384.1	0.0	12384.1
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	33675.8	0.0	33675.8
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	46060.0	0.0	46060.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	874.0	1.9
10°-20°	2745.4	6.0
20°-30°	4801.5	10.4
30°-40°	7517.7	16.3
40°-50°	10936.1	23.7
50°-60°	12019.4	26.1
60°-70°	5365.0	11.6
70°-80°	1549.6	3.4
80°-90°	251.4	0.5
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°	46060.0	100.0
0°-180°	46060.0	100.0



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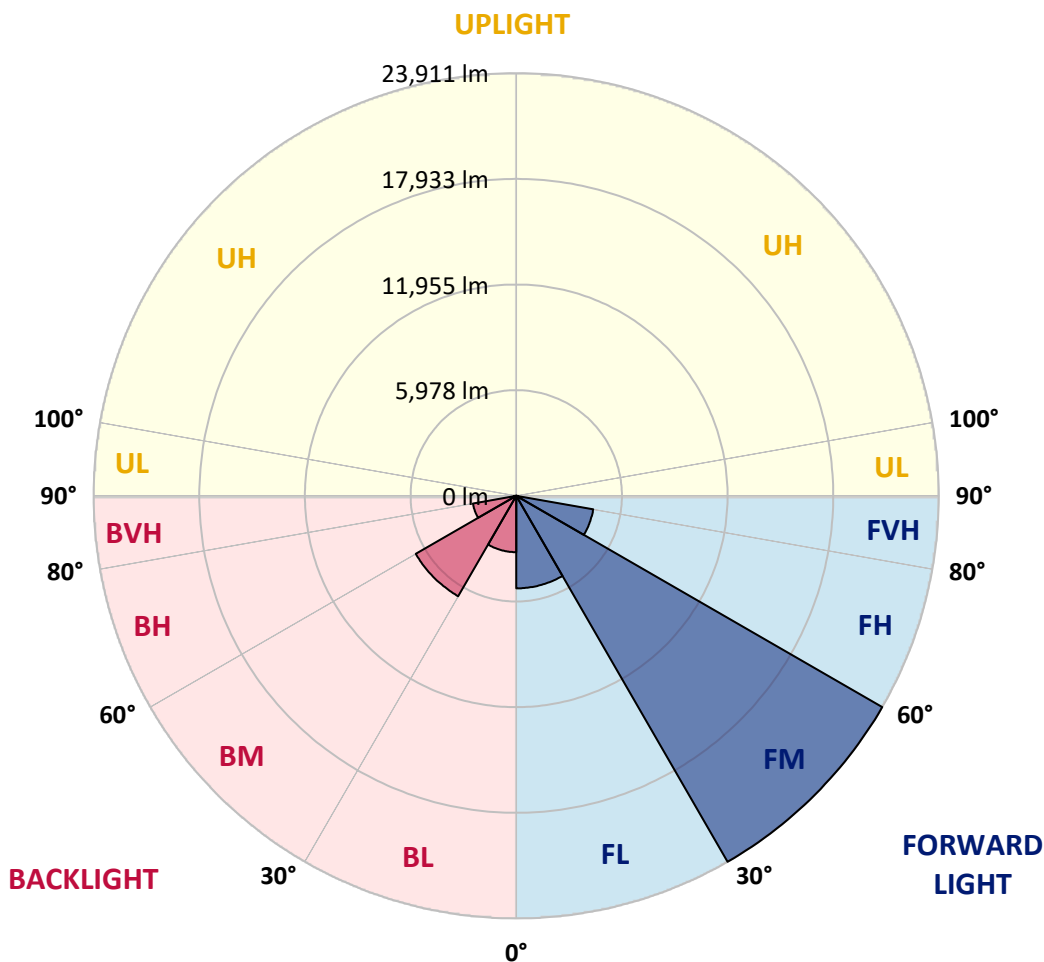
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5234.2	11.4			
FM	(30°-60°)	23910.6	51.9			
FH	(60°-80°)	4422.8	9.6			G2/5000
FVH	(80°-90°)	108.2	0.2			G2/225
BL	(0°-30°)	3186.7	6.9	B4/5000		
BM	(30°-60°)	6562.6	14.2	B4/8500		
BH	(60°-80°)	2491.7	5.4	B3/2500		G3/2500
BVH	(80°-90°)	143.2	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	8813.0	8813.0	8813.0	8813.0	8813.0	8813.0	8813.0	8813.0	8813.0	8813.0	8813.0
2.5°	9708.7	9553.4	9541.4	9499.7	9523.6	9416.0	9302.6	9153.3	8998.1	9093.6	8866.7
5°	10389.3	10180.3	10263.9	10120.6	10138.5	9995.2	9762.4	9589.2	9398.1	9284.7	9123.4
7.5°	10628.1	10646.1	10705.7	10681.8	10562.4	10562.4	10407.2	10102.7	9768.3	9702.6	9434.0
10°	10950.6	10956.5	10890.8	10908.8	11075.9	10998.3	10861.0	10729.6	10299.7	10222.1	9744.4
12.5°	11064.0	10956.5	11064.0	11159.6	11356.6	11464.1	11434.2	11338.6	10878.9	10825.1	10126.5
15°	11081.9	11016.3	11105.8	11320.8	11493.9	11947.7	12174.6	12108.9	11499.8	11505.9	10556.5
17.5°	10998.3	11087.9	11123.7	11308.8	11708.8	12132.8	12789.6	12879.2	12377.6	12300.0	11099.8
20°	11111.8	11046.1	11093.9	11261.0	11792.4	12455.2	13315.0	13906.2	13201.5	13147.8	11661.1
22.5°	11547.6	11458.1	11446.1	11553.6	11935.7	12622.4	13870.3	14933.1	14204.6	14234.5	12359.7
25°	11888.0	11935.7	11893.9	11888.0	12126.8	12873.1	14604.8	16157.1	15566.0	15392.8	13183.7
27.5°	12473.1	12586.6	12502.9	12616.4	12562.7	13249.3	15130.1	17512.5	17034.9	16802.0	13930.0
30°	13285.2	13344.9	13267.2	13267.2	13106.0	13774.8	15607.9	18927.6	18730.6	18414.1	14807.7
32.5°	14354.0	14443.5	14288.3	14198.7	14174.8	14557.0	16467.6	20324.8	20659.1	20390.5	15972.0
35°	15769.1	15715.3	15530.2	15446.6	15124.2	15757.1	17745.4	21931.0	22808.7	22331.0	17381.2
37.5°	17016.9	16933.3	16921.4	16455.7	16533.3	17052.8	18832.1	23149.0	24892.5	24755.2	18867.9
40°	18181.3	18258.9	18384.3	18121.5	18002.1	18575.3	20097.9	24080.5	26510.6	26456.9	20014.3
42.5°	19429.2	19357.5	19578.4	19357.5	19178.4	19990.5	21471.2	24725.3	27931.6	27489.8	21214.4
45°	21238.3	21011.4	21089.1	21107.0	20975.6	21274.2	22038.4	25191.1	28928.8	28881.0	22092.2
47.5°	22749.0	22754.9	22623.6	22522.1	22122.0	22420.6	22671.4	25483.6	30075.2	29997.6	22432.5
50°	23310.2	23232.6	23614.7	23835.7	23859.6	23250.5	23166.9	25644.8	30678.3	30338.0	22772.9
52.5°	21292.0	21363.8	21966.8	23280.4	24038.6	24104.3	23746.1	25979.2	30923.1	30851.5	23047.5
55°	17136.3	17482.7	18473.9	19990.5	21787.7	23764.0	24373.1	26325.5	31054.4	30994.7	24265.6
56°	15064.5	15333.2	16622.9	17811.1	20068.1	22528.0	23979.0	26695.7	31156.0	31436.6	24552.1
57.5°	12126.8	12437.3	13362.8	14712.2	17375.2	20175.6	22892.3	26241.9	30761.9	30869.3	24761.1
60°	7583.0	7612.9	8723.4	9613.0	11487.9	14222.6	17470.8	22832.6	28469.0	28313.8	22241.4
62.5°	4973.7	4979.7	5988.8	6717.2	7571.1	8198.0	10281.8	15142.1	21005.5	20730.8	15834.7
65°	3493.0	3570.6	4352.8	5326.0	5672.3	5343.9	5278.2	7983.0	11732.7	11338.6	8508.5
67.5°	2555.6	2561.5	3254.1	4299.0	4800.6	4066.1	3301.9	3898.9	4645.3	4633.4	3940.8
70°	1689.7	1761.4	2292.8	3212.3	3785.5	3266.0	2698.8	2788.4	2955.6	2955.6	2931.7
72.5°	985.2	1050.9	1403.1	2036.0	2125.6	2042.1	2137.6	2388.3	2495.8	2489.9	2460.0
75°	561.3	591.1	668.8	847.8	1056.8	1247.9	1570.3	1809.2	1916.6	1982.3	1904.7
77.5°	328.4	346.3	394.1	483.7	549.4	674.7	853.9	1021.0	1164.3	1146.4	1158.4
80°	173.1	173.1	220.9	286.6	382.1	477.6	567.2	662.7	740.4	758.3	776.2
82.5°	101.5	107.5	143.3	209.0	274.7	340.4	435.9	501.6	573.2	579.2	591.1
85°	53.7	59.7	89.6	137.3	185.1	209.0	214.9	203.0	220.9	209.0	238.8
87.5°	17.9	17.9	29.8	23.9	23.9	29.8	35.9	35.9	47.8	47.8	47.8
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°	8813.0	8813.0	8813.0	8813.0	8813.0	8813.0	8813.0	8813.0	8813.0	8813.0	8813.0
2.5°	8860.7	8860.7	8759.3	8568.2	8538.3	8460.7	8389.1	8383.1	8329.3	8281.6	8257.7
5°	9027.9	8842.8	8693.6	8520.4	8317.4	8221.9	8114.4	7995.0	7947.2	7995.0	7989.0
7.5°	9219.0	9063.8	8616.0	8293.5	8060.7	7965.1	7845.7	7720.3	7732.3	7732.3	7648.7
10°	9404.1	9195.1	8478.6	8066.6	7726.3	7654.6	7589.0	7636.8	7696.4	7708.4	7654.6
12.5°	9714.6	9242.9	8412.9	7839.7	7624.8	7469.5	7511.3	7642.7	7768.1	7732.3	7774.1
15°	9947.5	9284.7	8114.4	7606.8	7338.2	7409.8	7559.1	7648.7	7857.6	7833.8	7875.6
17.5°	10174.3	9308.5	7821.9	7296.4	7182.9	7380.0	7493.4	7750.1	7815.8	7959.1	8012.9
20°	10640.0	9356.3	7523.3	7105.3	7069.5	7296.4	7493.4	7612.9	7756.2	7881.5	7881.5
22.5°	10878.9	9332.4	7326.2	6854.5	6968.0	7111.3	7290.4	7493.4	7493.4	7612.9	7618.8
25°	11177.5	9236.9	7015.8	6735.1	6818.8	6956.0	7159.0	7087.4	7165.0	7165.0	7260.5
27.5°	11517.8	9033.9	6747.0	6520.2	6687.4	6836.6	6866.5	6818.8	6729.2	6717.2	6681.4
30°	11792.4	8783.1	6550.0	6448.6	6585.9	6669.4	6573.9	6472.4	6317.2	6305.2	6221.6
32.5°	12168.6	8472.6	6305.2	6269.4	6424.7	6430.6	6400.8	6245.5	6018.6	5923.1	5827.6
35°	12801.5	8293.5	6120.2	6173.9	6221.6	6203.7	6150.0	5982.8	5755.9	5714.1	5678.3
37.5°	13267.2	8162.1	5929.0	5994.7	6036.5	6060.4	5899.2	5714.1	5720.0	5636.5	5612.6
40°	13792.7	8078.6	5773.8	5803.7	5809.6	5887.3	5690.2	5600.6	5642.5	5588.7	5624.5
42.5°	14467.4	8102.5	5612.6	5588.7	5702.2	5672.3	5576.8	5457.4	5481.2	5320.0	5343.9
45°	14825.6	8263.7	5517.1	5409.6	5534.9	5529.0	5403.6	5290.2	5146.9	4836.4	4848.3
47.5°	15064.5	8305.4	5290.2	5218.5	5349.9	5427.5	5284.2	5021.5	4818.5	4597.5	4543.8
50°	15309.3	8383.1	5182.7	5033.4	5087.2	5272.3	5093.1	4842.4	4645.3	4448.3	4478.1
52.5°	15524.2	8532.4	4973.7	4752.8	4848.3	5051.4	4955.8	4651.3	4436.3	4275.1	4227.3
55°	16479.6	8866.7	4621.4	4334.8	4561.8	4818.5	4764.7	4394.6	4161.7	4078.1	4066.1
56°	16628.8	8878.7	4436.3	4191.6	4400.5	4740.8	4675.2	4281.1	4072.1	3940.8	3946.7
57.5°	16652.7	8735.4	4173.6	4060.2	4239.3	4627.5	4543.8	4191.6	3905.0	3785.5	3749.7
60°	14652.5	6818.8	3845.2	3773.6	3982.6	4281.1	4251.2	3946.7	3624.3	3487.0	3552.6
62.5°	9989.3	4997.6	3588.5	3576.5	3684.0	3976.6	3898.9	3624.3	3355.6	3266.0	3224.2
65°	5815.6	3791.5	3337.7	3289.9	3379.5	3534.8	3588.5	3301.9	3021.3	2961.5	2943.6
67.5°	3433.2	3134.7	3015.3	2937.7	2907.8	3003.4	3045.2	2877.9	2597.3	2513.7	2585.4
70°	2872.0	2788.4	2794.4	2663.0	2591.3	2525.6	2489.9	2340.5	2107.7	2000.3	1970.4
72.5°	2477.9	2442.1	2418.2	2298.8	2233.1	2083.8	1928.6	1779.3	1606.2	1516.6	1522.5
75°	1892.7	1880.8	1892.7	1833.1	1719.6	1600.2	1456.9	1265.8	1134.5	1021.0	1044.9
77.5°	1128.5	1164.3	1182.3	1158.4	1110.6	1003.1	913.5	788.2	662.7	573.2	561.3
80°	776.2	806.1	835.9	806.1	758.3	680.7	585.1	489.6	400.0	352.3	340.4
82.5°	591.1	621.0	638.8	609.0	549.4	465.7	400.0	334.3	262.7	214.9	203.0
85°	214.9	244.8	238.8	286.6	310.5	298.6	256.7	197.0	149.2	107.5	101.5
87.5°	59.7	53.7	59.7	59.7	59.7	53.7	47.8	47.8	47.8	29.8	23.9
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)