

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: P459510

Luminaire Tested: **GALN-SA9C-735-U-SL4**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459510  
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-SA9C-735-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1050mA 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: 58115 lumens  
Efficiency: N/A  
Efficacy: 120.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

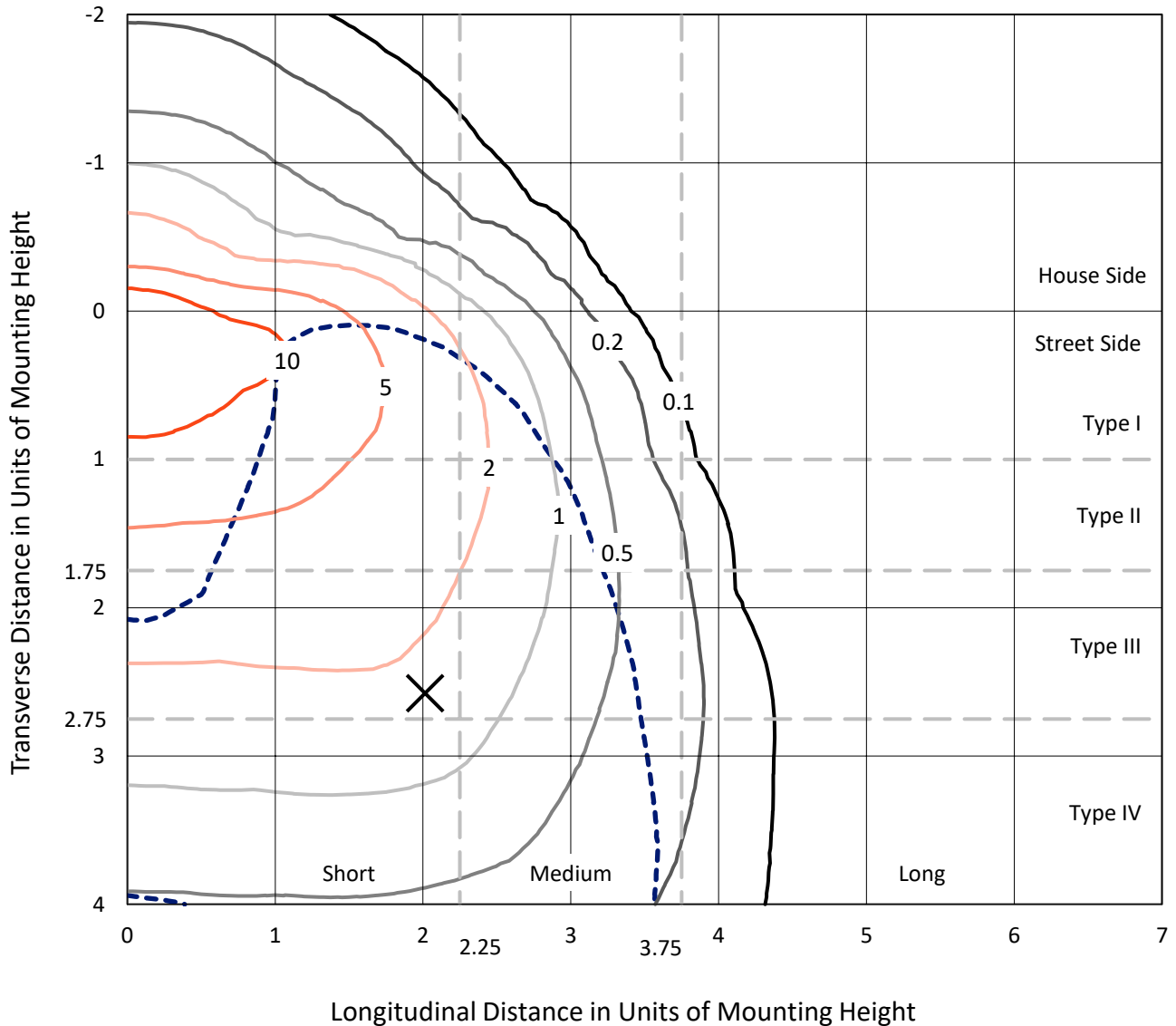
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

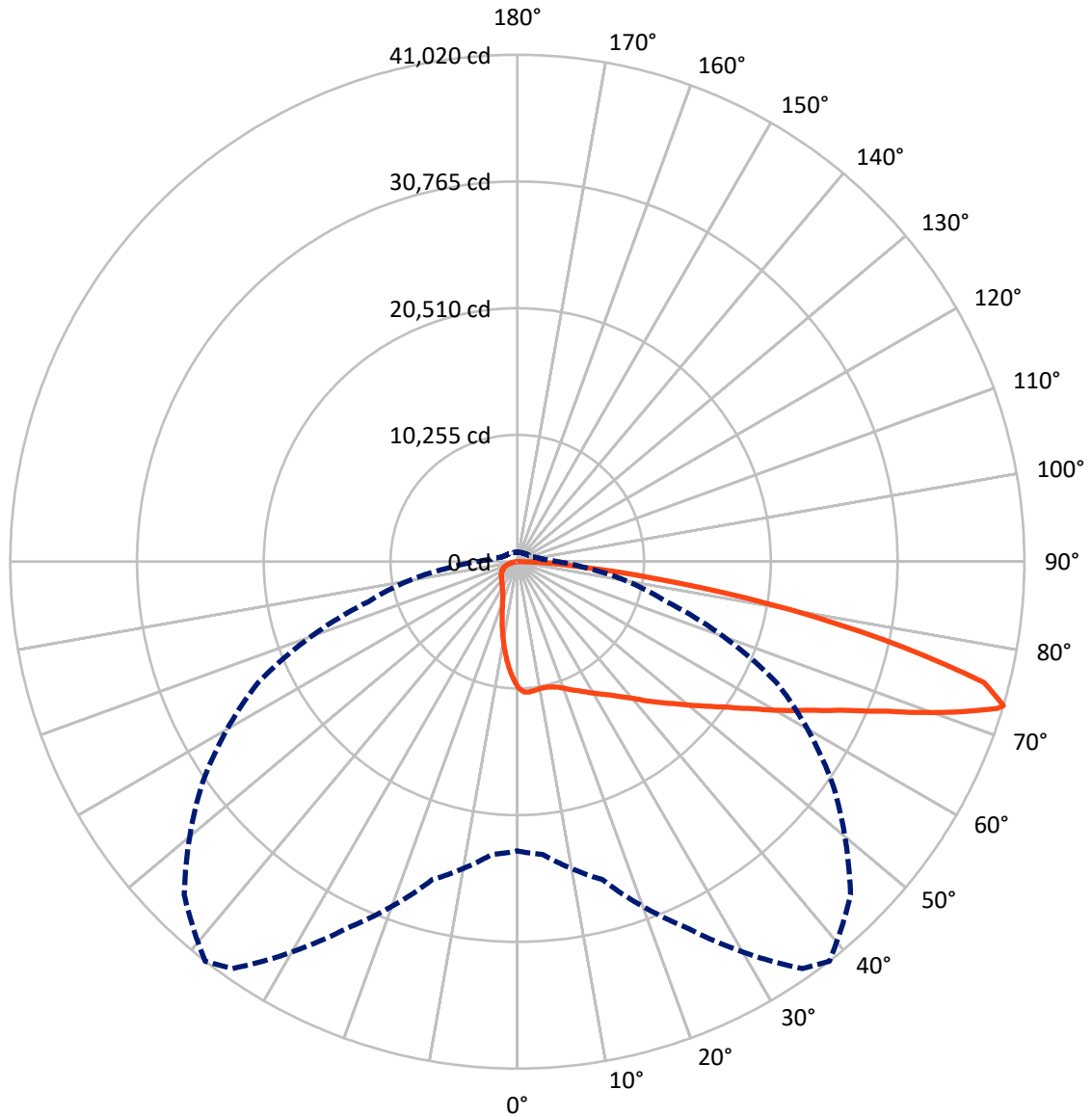
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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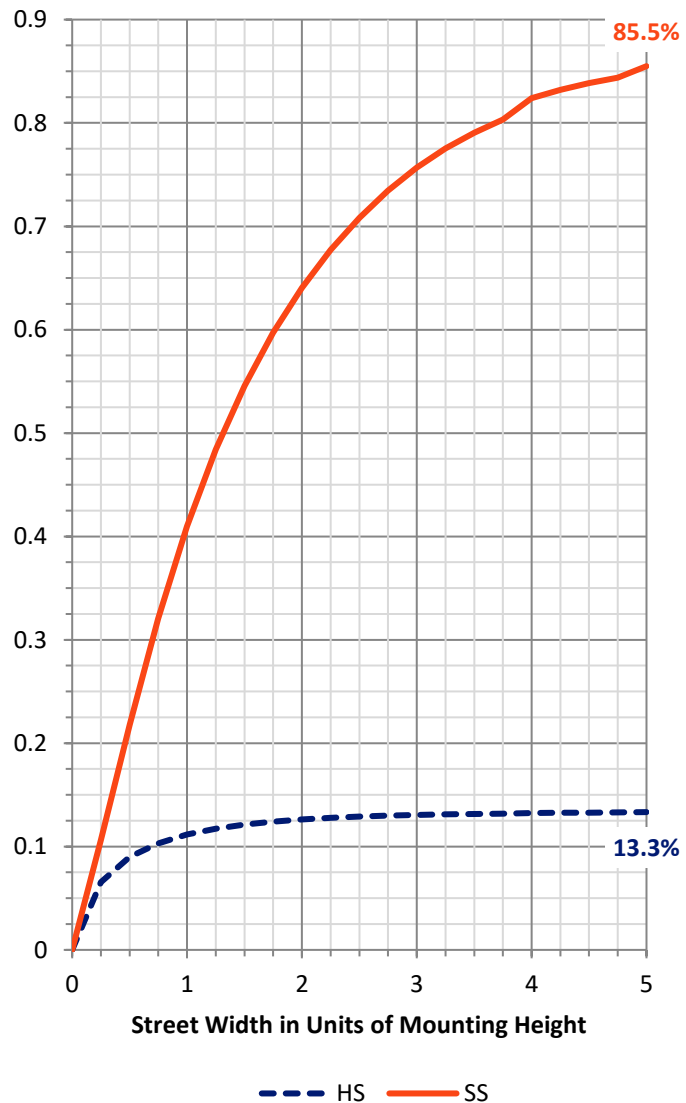
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7812.4	0.0	7812.4
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	50302.6	0.0	50302.6
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	58115.0	0.0	58115.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	891.2	1.5
10°-20°	2285.3	3.9
20°-30°	3558.7	6.1
30°-40°	5219.8	9.0
40°-50°	7743.0	13.3
50°-60°	10970.3	18.9
60°-70°	13916.2	23.9
70°-80°	11584.1	19.9
80°-90°	1946.3	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°	58115.0	100.0
0°-180°	58115.0	100.0

**Coefficient of Utilization**



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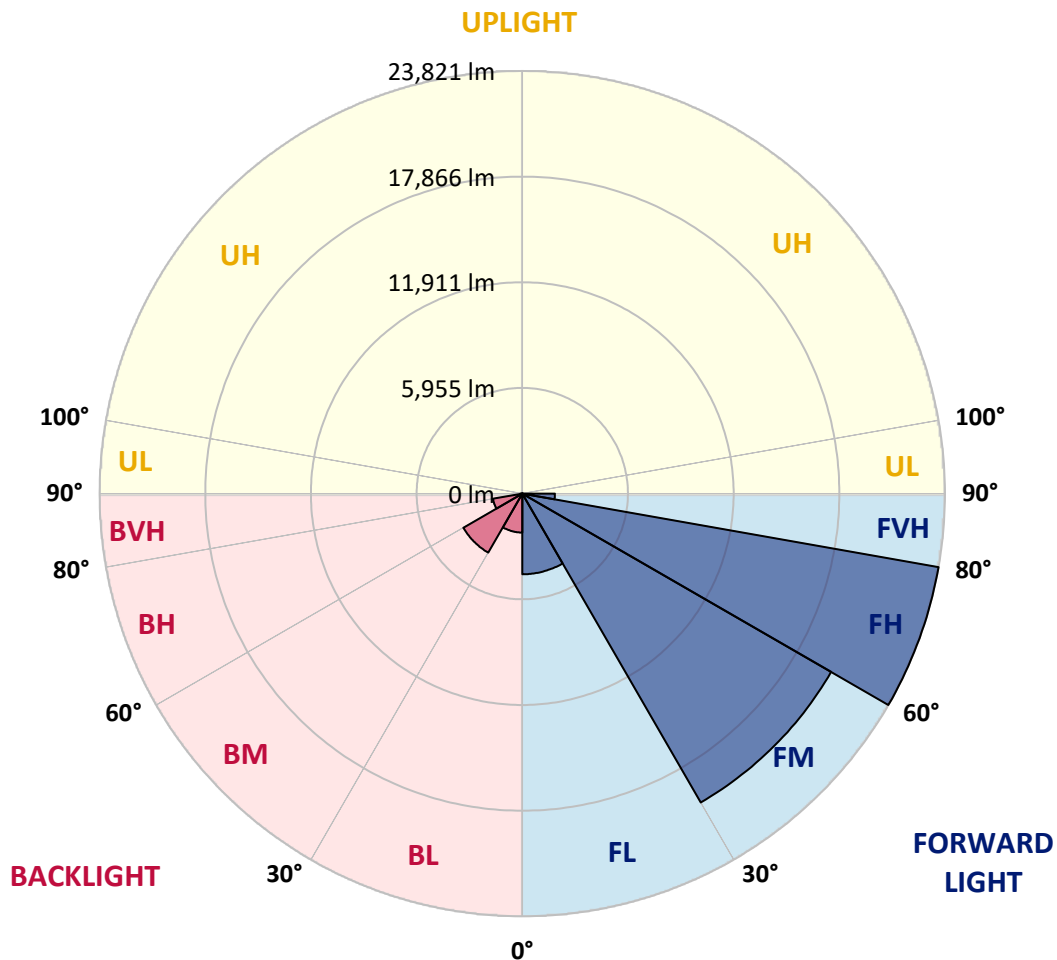
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4543.0	7.8			
FM (30°-60°)	20097.7	34.6			
FH (60°-80°)	23821.1	41.0			G5
FVH (80°-90°)	1840.8	3.2			G5
BL (0°-30°)	2192.2	3.8	B3/2500		
BM (30°-60°)	3835.4	6.6	B3/5000		
BH (60°-80°)	1679.2	2.9	B3/2500		G3/2500
BVH (80°-90°)	105.5	0.2			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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	10209.8	10209.8	10209.8	10209.8	10209.8	10209.8	10209.8	10209.8	10209.8	10209.8	10209.8
2.5°	10620.1	10672.6	10646.3	10610.2	10587.2	10564.3	10531.4	10436.3	10360.8	10278.7	10150.7
5°	10698.8	10731.6	10708.7	10662.7	10610.2	10587.2	10524.9	10400.2	10278.7	10140.9	9950.6
7.5°	10652.9	10666.0	10639.7	10584.0	10538.0	10495.3	10423.1	10285.3	10137.6	9970.2	9720.8
10°	10488.8	10538.0	10538.0	10492.1	10446.1	10423.1	10350.9	10219.7	10085.1	9894.8	9599.4
12.5°	10354.2	10406.7	10449.4	10436.3	10433.0	10433.0	10377.2	10278.7	10121.2	9940.7	9589.6
15°	10262.3	10324.7	10416.6	10469.1	10501.9	10511.8	10488.8	10403.4	10242.6	10032.6	9628.9
17.5°	10242.6	10318.1	10485.5	10600.4	10685.7	10682.4	10675.8	10557.7	10380.5	10163.9	9678.2
20°	10331.2	10429.7	10662.7	10843.2	10967.9	10945.0	10908.9	10754.6	10547.9	10305.0	9724.1
22.5°	10597.1	10698.8	10954.8	11151.7	11273.1	11273.1	11164.8	10961.4	10741.5	10469.1	9786.5
25°	10977.8	11089.4	11361.7	11561.9	11617.7	11575.1	11466.8	11220.6	10967.9	10705.4	9917.7
27.5°	11443.8	11578.4	11831.1	11998.4	11982.0	11949.2	11837.6	11522.6	11269.9	11030.3	10140.9
30°	12024.7	12123.1	12385.7	12425.1	12366.0	12359.4	12201.9	11886.8	11650.6	11466.8	10459.2
32.5°	12572.7	12661.4	12871.4	12887.8	12782.8	12795.9	12648.2	12359.4	12224.9	12159.2	10994.2
35°	13153.6	13199.6	13380.1	13360.4	13291.5	13281.6	13222.6	12946.9	12989.5	13107.7	11752.3
37.5°	13639.3	13731.2	13833.0	13849.4	13846.1	13878.9	13918.3	13787.0	14033.2	14404.0	12746.7
40°	14085.7	14164.4	14315.4	14367.9	14495.9	14561.5	14696.1	14699.4	15267.1	15877.6	13970.8
42.5°	14387.6	14522.2	14804.4	14899.6	15211.4	15408.3	15608.5	15821.8	16645.5	17429.9	15414.8
45°	14650.2	14827.4	15296.7	15592.0	16015.4	16255.0	16678.3	17124.7	18309.4	19336.6	16881.8
47.5°	15047.3	15204.8	15743.0	16264.8	16904.8	17180.5	17813.9	18480.1	20029.1	21154.8	18286.4
50°	15598.6	15693.8	16241.9	17091.9	17909.0	18263.5	19100.3	20061.9	21866.9	22949.9	19520.4
52.5°	16304.2	16343.6	16780.1	17912.3	18988.8	19428.5	20537.8	21660.2	23475.0	24508.8	20498.4
55°	17137.8	17072.2	17413.5	18782.0	20222.7	20797.1	21988.4	23278.1	25283.3	25769.0	21210.6
57.5°	17961.5	17859.8	18132.2	19838.8	21745.5	22438.0	23826.2	24945.3	26898.0	26947.2	21709.4
60°	18834.5	18759.0	19083.9	21079.3	23612.9	24433.3	25716.5	26674.8	28460.2	27767.7	21788.2
62.5°	19730.5	19609.0	20071.8	22474.1	25716.5	26461.5	27705.3	28512.7	29992.8	28072.9	21030.1
65°	20600.1	20544.4	21259.8	24131.4	28112.3	28959.0	30166.7	30714.8	31220.2	27613.4	19149.6
67.5°	21525.6	21637.2	22779.3	26343.4	31236.6	32299.9	33602.8	33087.6	31571.4	25437.6	16127.0
70°	22936.8	23009.0	24774.6	29241.2	35263.4	36546.6	37176.7	33931.0	29877.9	21305.7	12123.1
72.5°	23544.0	23862.3	26556.7	32283.5	39838.3	40622.7	38377.9	32050.5	24889.5	14472.9	6370.1
73°	23409.4	23790.1	26638.7	32746.3	40196.0	41019.8	38121.9	31082.4	23137.0	12464.4	5461.0
75°	21732.4	22201.7	25572.1	32359.0	39500.3	39008.0	34006.5	26491.1	15634.7	5667.7	2487.6
77.5°	17147.6	17282.2	20262.1	26130.1	31105.3	30193.0	25450.7	16556.9	6386.5	2106.9	1411.2
80°	8601.7	9097.3	11420.8	14968.5	20800.3	20501.7	16064.6	7830.5	2661.6	1237.3	935.3
82.5°	4138.4	4489.6	5562.7	7298.8	11493.0	11220.6	7955.2	4279.5	1690.2	722.0	551.4
85°	2664.9	2927.4	3541.1	3482.0	4725.9	4512.5	3573.9	3239.2	1001.0	377.4	384.0
87.5°	1759.1	1926.4	2310.4	1847.7	1719.7	1555.6	1578.6	1824.7	196.9	144.4	52.5
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°	10209.8	10209.8	10209.8	10209.8	10209.8	10209.8	10209.8	10209.8	10209.8	10209.8	10209.8
2.5°	10098.2	10055.6	9914.5	9776.6	9645.3	9520.6	9438.6	9330.3	9258.1	9277.8	9307.3
5°	9845.5	9750.4	9500.9	9258.1	9028.4	8756.0	8536.1	8358.9	8224.3	8175.1	8165.2
7.5°	9579.7	9418.9	9061.2	8644.4	8253.8	7915.8	7525.3	7331.6	7105.2	7026.4	7000.2
10°	9418.9	9202.3	8700.2	8119.3	7531.8	6970.6	6547.3	6202.7	5890.9	5831.8	5802.3
12.5°	9373.0	9087.4	8411.4	7663.1	6882.0	6192.8	5566.0	5113.1	4811.2	4742.3	4640.5
15°	9346.7	8992.3	8142.3	7203.7	6212.5	5372.4	4712.7	4184.4	3908.7	3724.9	3728.2
17.5°	9323.7	8884.0	7840.3	6701.5	5634.9	4666.8	3938.2	3462.3	3209.6	3111.2	3101.3
20°	9290.9	8756.0	7492.5	6173.2	4975.3	4023.5	3363.9	3009.5	2838.8	2756.8	2753.5
22.5°	9277.8	8631.3	7151.1	5634.9	4391.1	3528.0	2983.2	2733.8	2625.5	2569.7	2569.7
25°	9310.6	8542.6	6793.4	5123.0	3872.6	3104.6	2720.6	2550.0	2487.6	2458.1	2448.3
27.5°	9412.3	8503.3	6439.0	4611.0	3396.7	2815.8	2543.4	2425.3	2379.3	2356.4	2359.6
30°	9606.0	8500.0	6091.1	4105.6	3042.3	2595.9	2402.3	2320.3	2284.2	2271.0	2267.8
32.5°	9917.7	8572.2	5749.8	3688.8	2743.6	2412.2	2271.0	2212.0	2195.6	2185.7	2182.4
35°	10446.1	8775.7	5411.8	3308.1	2513.9	2248.1	2146.3	2116.8	2093.8	2103.7	2106.9
37.5°	11158.3	9126.8	5090.1	3009.5	2340.0	2126.6	2041.3	2015.1	2001.9	2011.8	2021.6
40°	12113.3	9632.2	4821.0	2769.9	2215.2	2024.9	1949.4	1926.4	1913.3	1929.7	1933.0
42.5°	13166.8	10216.4	4597.9	2582.8	2113.5	1939.6	1867.4	1841.1	1831.3	1841.1	1844.4
45°	14249.8	10895.7	4483.0	2448.3	2028.2	1877.2	1801.7	1772.2	1749.2	1742.7	1752.5
47.5°	15316.4	11486.5	4479.7	2366.2	1959.3	1821.4	1739.4	1706.6	1677.0	1660.6	1657.3
50°	16186.1	11955.8	4558.5	2330.1	1900.2	1759.1	1677.0	1644.2	1604.8	1572.0	1578.6
52.5°	16842.4	12261.0	4594.6	2313.7	1867.4	1693.4	1611.4	1581.8	1535.9	1493.2	1493.2
55°	17265.8	12333.2	4506.0	2297.3	1841.1	1624.5	1535.9	1509.6	1463.7	1421.0	1421.0
57.5°	17410.2	12110.0	4187.6	2257.9	1814.9	1565.4	1460.4	1437.4	1401.3	1358.7	1352.1
60°	17075.4	11355.2	3629.7	2139.8	1762.4	1503.1	1378.4	1368.5	1355.4	1319.3	1316.0
62.5°	15785.7	9753.6	3022.6	1985.5	1673.7	1437.4	1302.9	1319.3	1329.1	1309.5	1306.2
65°	13639.3	7919.1	2582.8	1772.2	1555.6	1345.6	1220.8	1263.5	1289.8	1289.8	1283.2
67.5°	11063.1	6081.3	2175.9	1588.4	1407.9	1220.8	1129.0	1161.8	1181.5	1174.9	1191.3
70°	7863.3	4118.7	1772.2	1378.4	1220.8	1079.7	1010.8	1010.8	997.7	991.1	991.1
72.5°	3813.5	2353.1	1437.4	1151.9	1040.3	922.2	866.4	843.4	817.2	813.9	797.5
73°	3186.7	2110.2	1371.8	1109.3	997.7	899.2	836.9	800.8	784.4	771.2	768.0
75°	1939.6	1601.5	1145.4	935.3	850.0	774.5	718.7	685.9	669.5	659.7	656.4
77.5°	1276.6	1194.6	889.4	715.4	649.8	603.9	580.9	548.1	538.2	525.1	525.1
80°	951.7	912.4	636.7	505.4	466.0	426.6	420.1	413.5	387.3	370.8	364.3
82.5°	613.7	649.8	433.2	338.0	295.4	262.5	265.8	275.7	249.4	226.4	219.9
85°	436.5	469.3	262.5	154.2	124.7	108.3	121.4	108.3	111.6	88.6	72.2
87.5°	72.2	124.7	45.9	19.7	9.8	6.6	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)