

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: P382633

Luminaire Tested: **GLEON-SA0B-735-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382633  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA0B-735-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 51618 lumens  
Efficiency: N/A  
Efficacy: 123.2 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

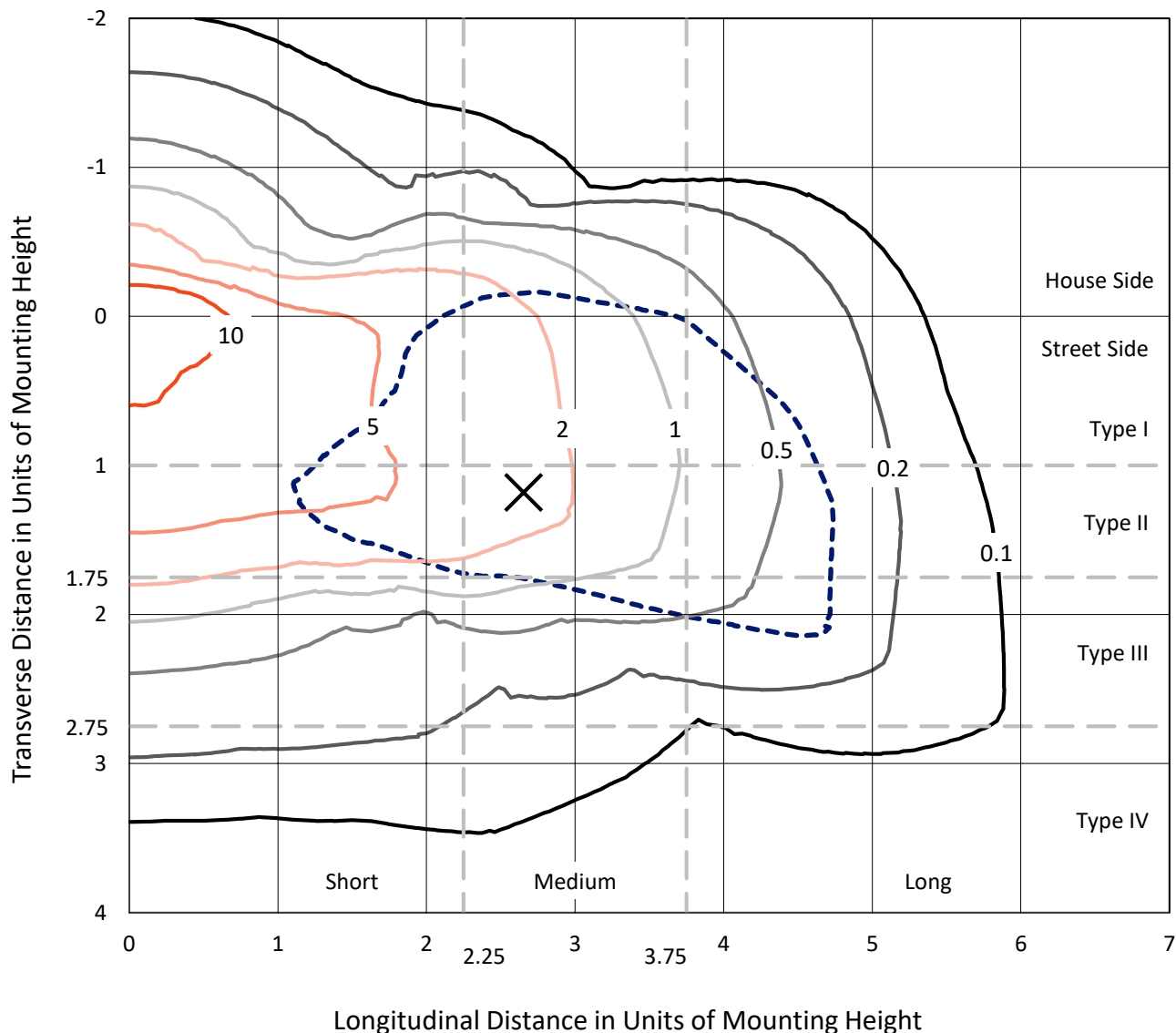
Input Watts (W): 419  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

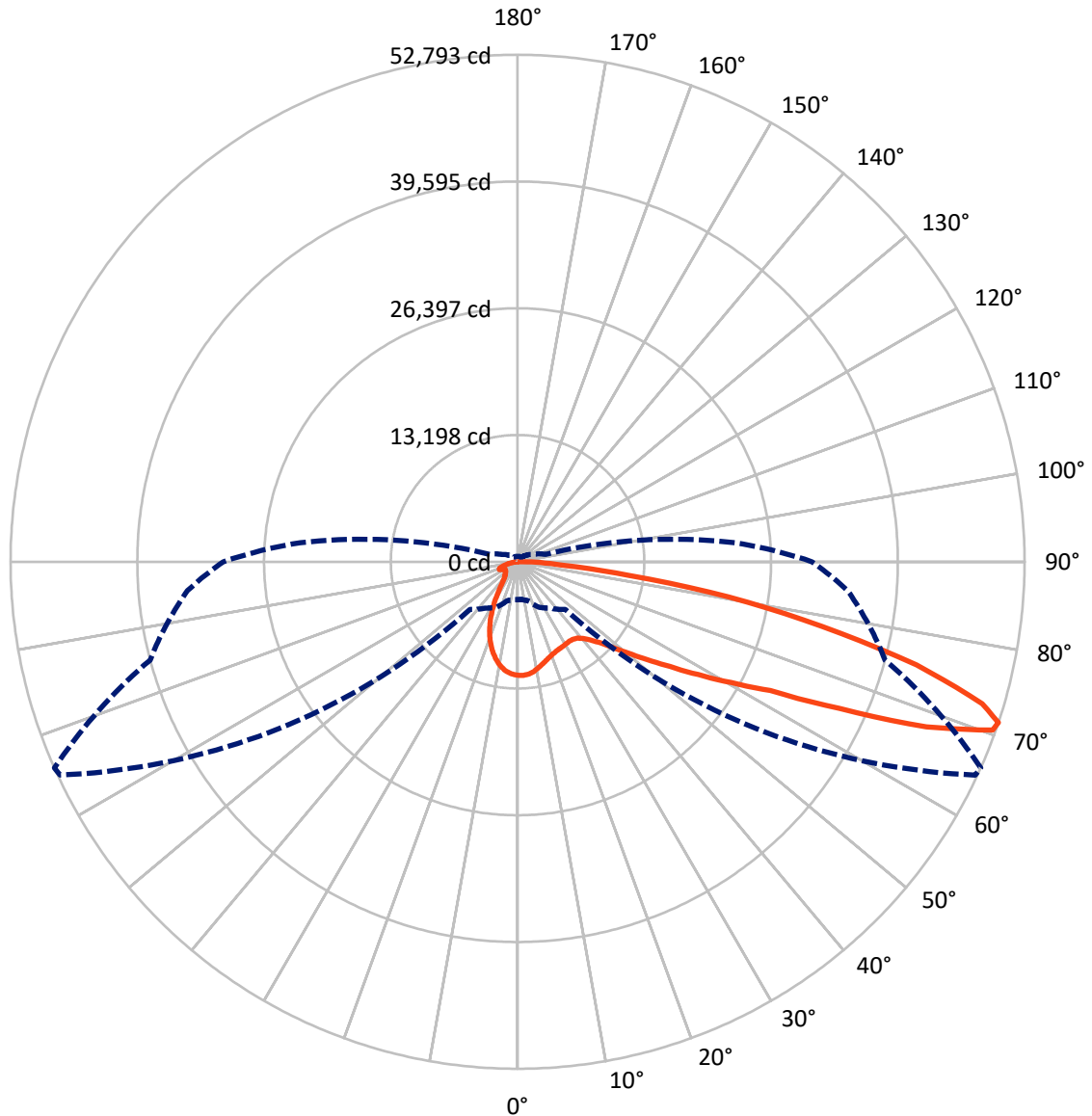
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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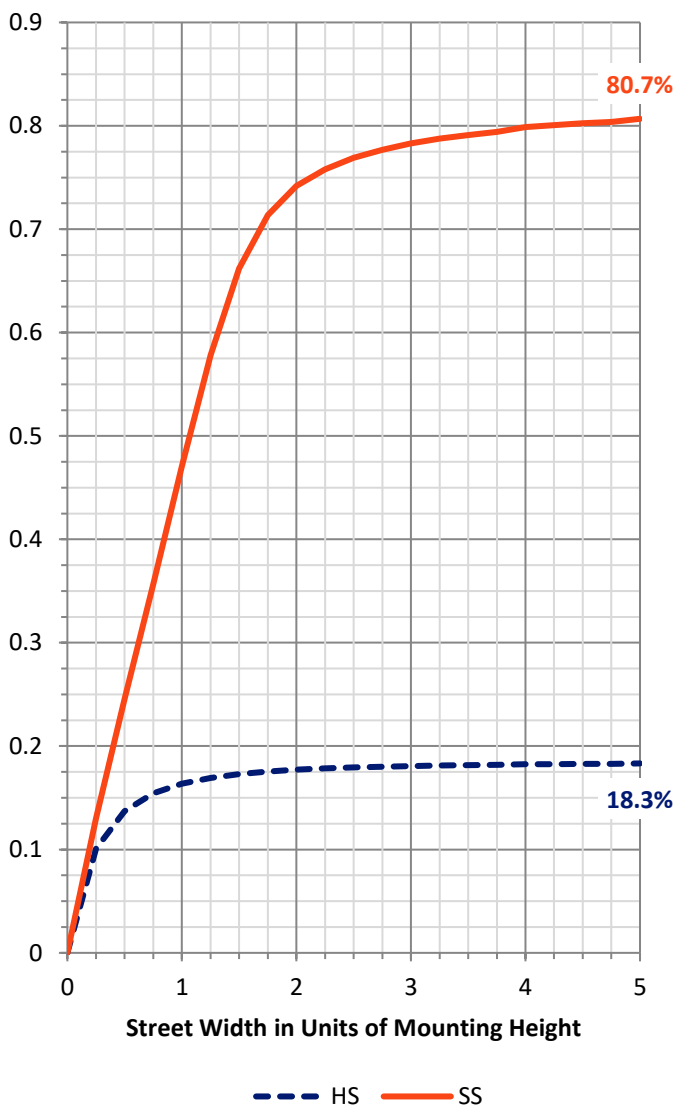
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9566.2	0.0	9566.2
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	42051.8	0.0	42051.8
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	51618.0	0.0	51618.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1040.8	2.0
10°-20°	2496.4	4.8
20°-30°	3353.3	6.5
30°-40°	4411.2	8.5
40°-50°	6417.2	12.4
50°-60°	10024.3	19.4
60°-70°	12557.1	24.3
70°-80°	9578.3	18.6
80°-90°	1739.3	3.4
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°	51618.0	100.0
0°-180°	51618.0	100.0

**Coefficient of Utilization**

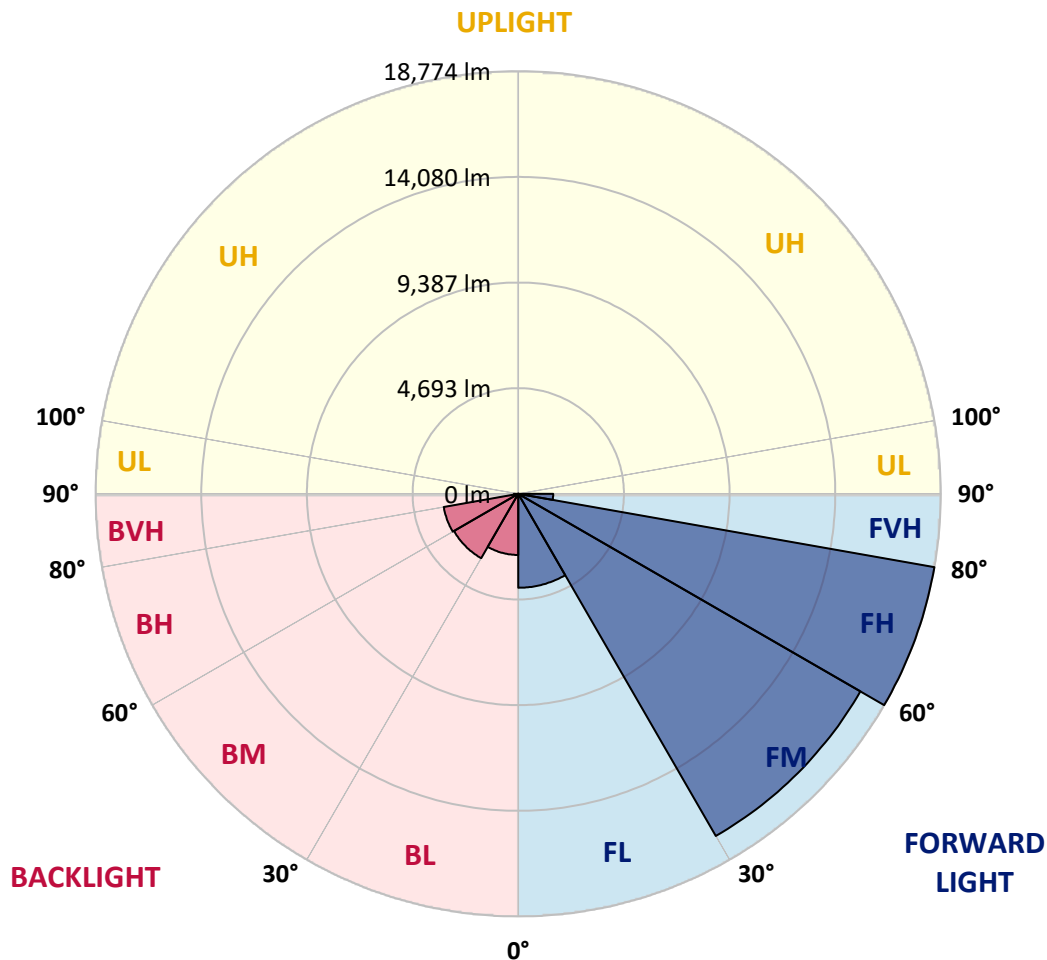


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4174.0	8.1			
FM (30°-60°)	17552.7	34.0			
FH (60°-80°)	18774.0	36.4			G5
FVH (80°-90°)	1551.0	3.0			G5
BL (0°-30°)	2716.6	5.3	B4/5000		
BM (30°-60°)	3300.0	6.4	B3/5000		
BH (60°-80°)	3361.3	6.5	B4/5000		G4/5000
BVH (80°-90°)	188.3	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	11824.7	11824.7	11824.7	11824.7	11824.7	11824.7	11824.7	11824.7	11824.7	11824.7	11824.7
2.5°	11605.5	11587.6	11641.1	11696.3	11717.8	11753.4	11806.9	11837.2	11835.4	11840.7	11822.9
5°	10835.6	10812.4	10919.3	11006.7	11174.2	11363.1	11593.0	11757.0	11760.5	11853.2	11878.2
7.5°	10106.6	10090.6	10213.6	10354.4	10548.7	10837.3	11209.9	11562.7	11584.1	11835.4	11922.7
10°	9522.1	9518.6	9638.0	9791.2	10017.6	10340.2	10767.9	11284.7	11316.7	11749.8	11929.9
12.5°	9065.9	9073.0	9176.4	9351.1	9589.8	9926.7	10390.0	10972.8	11024.5	11614.3	11888.9
15°	8729.1	8757.6	8841.3	9017.8	9253.0	9595.2	10071.1	10684.1	10762.5	11462.9	11865.7
17.5°	8536.6	8568.7	8627.4	8773.6	8994.6	9324.3	9775.2	10447.0	10518.4	11347.1	11867.5
20°	8479.6	8506.2	8540.1	8629.3	8816.4	9115.8	9541.7	10233.2	10309.8	11254.4	11885.2
22.5°	8591.8	8611.4	8615.0	8607.9	8721.9	8966.1	9372.4	10076.4	10158.3	11193.8	11897.7
25°	8832.4	8859.1	8839.5	8773.6	8736.1	8885.8	9285.1	9973.1	10055.0	11149.2	11872.8
27.5°	9194.2	9197.7	9181.7	9096.2	8919.8	8894.8	9258.4	9912.4	9990.8	11097.5	11821.2
30°	9686.0	9709.2	9680.7	9564.9	9276.2	9037.4	9290.4	9853.6	9924.9	11031.6	11737.3
32.5°	10261.7	10318.8	10317.0	10195.8	9782.3	9356.4	9422.3	9818.0	9873.2	10962.1	11635.8
35°	10858.8	10937.2	11083.3	11031.6	10520.2	9860.7	9675.4	9875.0	9912.4	10953.2	11564.5
37.5°	11478.9	11557.3	11858.5	11997.6	11398.8	10582.5	10074.6	10076.4	10094.2	11061.9	11559.1
40°	12127.6	12211.4	12664.1	13025.8	12537.5	11496.8	10717.9	10497.0	10477.4	11329.2	11664.3
42.5°	13036.5	13111.4	13655.0	14116.6	13801.1	12667.7	11607.3	11145.7	11104.7	11853.2	12001.1
45°	14186.1	14250.3	14827.6	15321.3	15159.1	14004.2	12724.7	12038.6	12031.4	12726.4	12683.7
47.5°	15552.9	15602.9	16121.5	16599.2	16657.9	15542.3	14129.1	13416.1	13300.4	13924.0	13740.5
50°	16976.9	17032.1	17385.0	17898.3	18334.9	17600.7	15936.2	15103.8	14948.8	15504.9	15237.5
52.5°	17919.7	17992.7	18299.3	18949.8	20220.5	19856.9	18073.0	17149.8	16914.6	17420.7	17215.7
55°	17499.1	17663.1	18131.7	19174.3	21728.2	23303.6	20708.8	19536.1	19270.6	19691.1	19570.0
57.5°	15586.8	15811.3	16451.2	18060.5	21940.3	26340.4	24693.7	22346.6	22159.5	22038.3	22093.5
60°	12092.0	12307.6	13100.7	15198.3	20462.8	28557.4	30690.7	25811.1	25540.2	24394.3	24444.2
62.5°	8557.9	8449.2	8992.8	10527.2	16627.7	28817.6	37514.6	30444.7	29553.7	26882.2	26663.0
65°	6526.3	6501.4	6745.5	7233.8	10071.1	25704.2	41579.7	38232.9	36840.9	29808.5	29291.7
67.5°	5362.5	5318.0	5558.5	6269.7	6485.3	16583.0	41668.9	47268.4	45901.5	33451.3	32332.1
70°	4409.1	4359.2	4583.8	5501.5	5993.4	8410.0	35069.5	52559.7	52486.7	38063.5	34627.5
71°	3952.8	3917.2	4186.3	5205.7	5888.3	7009.2	30279.0	52573.9	52793.1	39624.7	34492.0
72.5°	3218.6	3231.1	3516.2	4633.6	5809.9	6189.5	22253.9	50123.5	50586.9	41112.8	33260.6
75°	2138.6	2149.3	2523.6	3564.4	5633.4	6055.8	12231.0	42059.2	42911.0	40221.7	30350.3
77.5°	1436.4	1432.9	1687.7	2445.1	4908.0	6055.8	7171.4	31457.1	32392.7	32004.2	23398.1
80°	989.1	981.9	1162.0	1687.7	3715.9	6128.8	5544.3	22045.4	22328.7	17283.5	9509.6
82.5°	606.0	611.3	759.2	1192.3	2528.9	5515.8	5234.2	12020.7	11712.4	4847.5	2375.6
85°	347.6	345.7	484.8	807.3	1623.6	4655.0	5104.1	5173.6	4746.0	1459.5	859.0
87.5°	124.7	133.7	260.2	447.3	930.3	3241.8	4330.7	2691.1	2425.6	659.4	388.5
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°	11824.7	11824.7	11824.7	11824.7	11824.7	11824.7	11824.7	11824.7	11824.7	11824.7	11824.7
2.5°	11810.4	11821.2	11808.7	11737.3	11676.8	11578.8	11523.5	11446.9	11423.7	11413.0	11441.5
5°	11855.0	11858.5	11753.4	11566.3	11355.9	11108.2	10930.0	10710.8	10607.4	10562.9	10591.4
7.5°	11896.0	11879.9	11650.0	11291.8	10903.3	10472.0	10088.8	9737.7	9532.8	9449.1	9456.1
10°	11901.4	11833.6	11464.6	10910.5	10308.0	9675.4	9087.2	8545.5	8203.3	7980.6	8048.3
12.5°	11846.0	11732.0	11192.0	10416.8	9581.0	8718.4	7923.6	7110.9	6622.6	6396.2	6403.4
15°	11803.3	11596.6	10857.0	9835.7	8713.0	7570.7	6485.3	5530.0	5009.7	4778.0	4669.3
17.5°	11767.7	11450.4	10468.5	9181.7	7688.2	6239.4	4934.8	4083.0	3797.8	3730.1	3701.6
20°	11717.8	11295.4	10035.4	8424.3	6520.9	4749.5	3603.5	3182.9	3184.8	3263.1	3273.8
22.5°	11648.3	11119.0	9573.8	7574.2	5268.1	3459.2	2824.7	2703.5	2826.5	2976.2	3002.9
25°	11544.9	10910.5	9060.5	6635.0	4017.0	2659.0	2413.1	2407.7	2557.4	2714.3	2737.4
27.5°	11398.8	10637.7	8490.2	5626.3	2960.2	2259.7	2161.7	2199.2	2309.7	2423.8	2432.6
30°	11202.7	10320.5	7861.1	4562.3	2320.4	2012.0	2001.3	2035.2	2103.0	2183.2	2190.3
32.5°	10987.0	9997.9	7189.2	3532.2	1987.1	1878.4	1889.1	1905.1	1937.2	1969.3	1976.5
35°	10791.0	9668.3	6501.4	2684.0	1828.5	1791.1	1783.9	1780.4	1783.9	1773.3	1775.1
37.5°	10664.5	9395.6	5784.9	2136.8	1737.6	1714.4	1693.1	1666.4	1636.0	1618.2	1621.7
40°	10618.2	9192.4	5059.6	1846.3	1662.7	1646.7	1605.7	1548.7	1513.0	1502.4	1502.4
42.5°	10742.9	9087.2	4359.2	1700.2	1600.4	1573.7	1505.9	1440.0	1413.3	1411.5	1409.7
45°	11124.3	9130.0	3692.7	1620.0	1543.4	1491.7	1402.5	1347.3	1329.5	1333.0	1331.3
47.5°	11808.7	9399.1	3122.4	1566.5	1486.3	1418.6	1318.8	1274.3	1252.8	1252.8	1254.6
50°	12972.4	10028.3	2667.9	1522.0	1438.2	1350.8	1258.2	1203.0	1174.4	1172.6	1172.6
52.5°	14667.2	11154.6	2384.6	1484.5	1384.7	1290.3	1197.6	1128.1	1094.3	1087.1	1083.6
55°	16791.6	12769.2	2306.1	1459.5	1313.5	1224.3	1124.6	1055.1	1017.6	1001.6	999.8
57.5°	19167.2	14733.2	2461.1	1429.3	1240.4	1145.9	1044.4	978.4	939.2	919.6	917.9
60°	21571.4	16877.1	3093.9	1386.5	1179.8	1060.4	962.4	901.7	862.6	841.2	837.6
62.5°	23979.1	19136.9	4385.9	1383.0	1137.0	978.4	878.6	826.9	789.5	766.3	761.0
65°	26695.1	21610.6	5854.4	1477.4	1122.8	903.6	793.0	752.0	720.0	698.6	696.8
67.5°	29813.9	24403.2	5713.6	1671.7	1170.9	835.9	712.9	680.8	657.6	639.8	638.0
70°	31277.1	23966.6	3551.9	1808.9	1238.6	769.9	636.2	613.1	595.3	582.8	577.5
71°	30663.9	22756.5	2978.0	1792.9	1231.5	741.4	606.0	588.1	570.3	559.6	554.3
72.5°	28992.3	20753.3	2484.3	1668.1	1151.3	689.7	566.8	548.9	532.8	520.4	516.8
75°	26016.1	18534.5	1988.9	1333.0	917.9	582.8	497.3	477.6	465.1	458.0	450.9
77.5°	19124.4	13227.2	1538.0	1053.3	675.5	475.8	424.1	409.9	397.4	386.7	381.4
80°	7326.5	5123.7	1035.4	785.9	495.4	376.1	342.2	335.1	322.6	315.4	315.4
82.5°	1972.8	1530.9	552.5	475.8	331.4	274.4	262.0	258.4	247.7	233.4	235.2
85°	798.4	675.5	310.1	262.0	203.2	162.2	176.4	178.2	165.7	147.9	149.7
87.5°	351.1	286.9	172.9	115.9	89.1	62.4	80.2	80.2	73.0	60.6	55.2
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)