

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: P319812

Luminaire Tested: **GLEON-SA8C-827-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319812  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA8C-827-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 41674 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

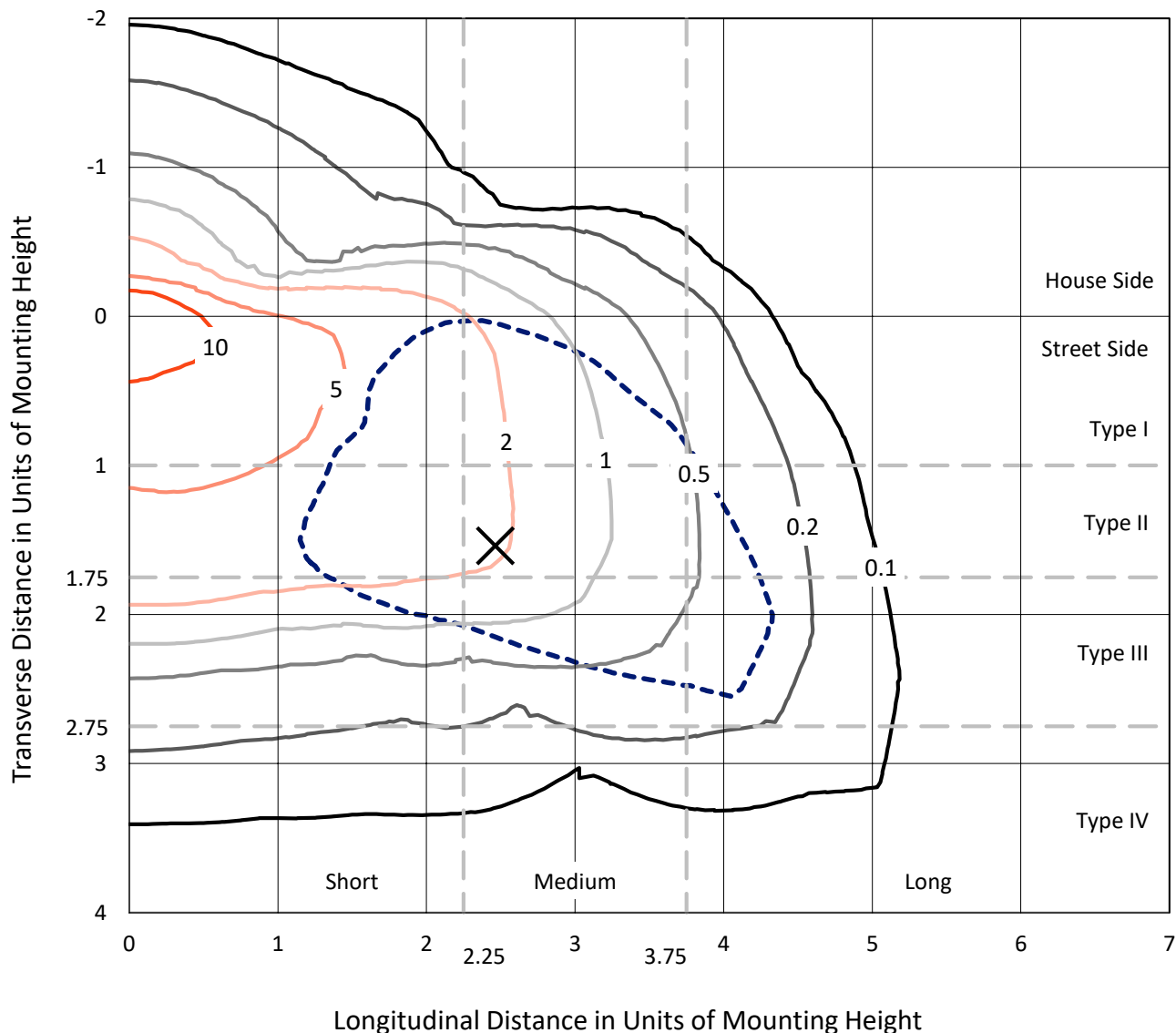
Input Watts (W): 445  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

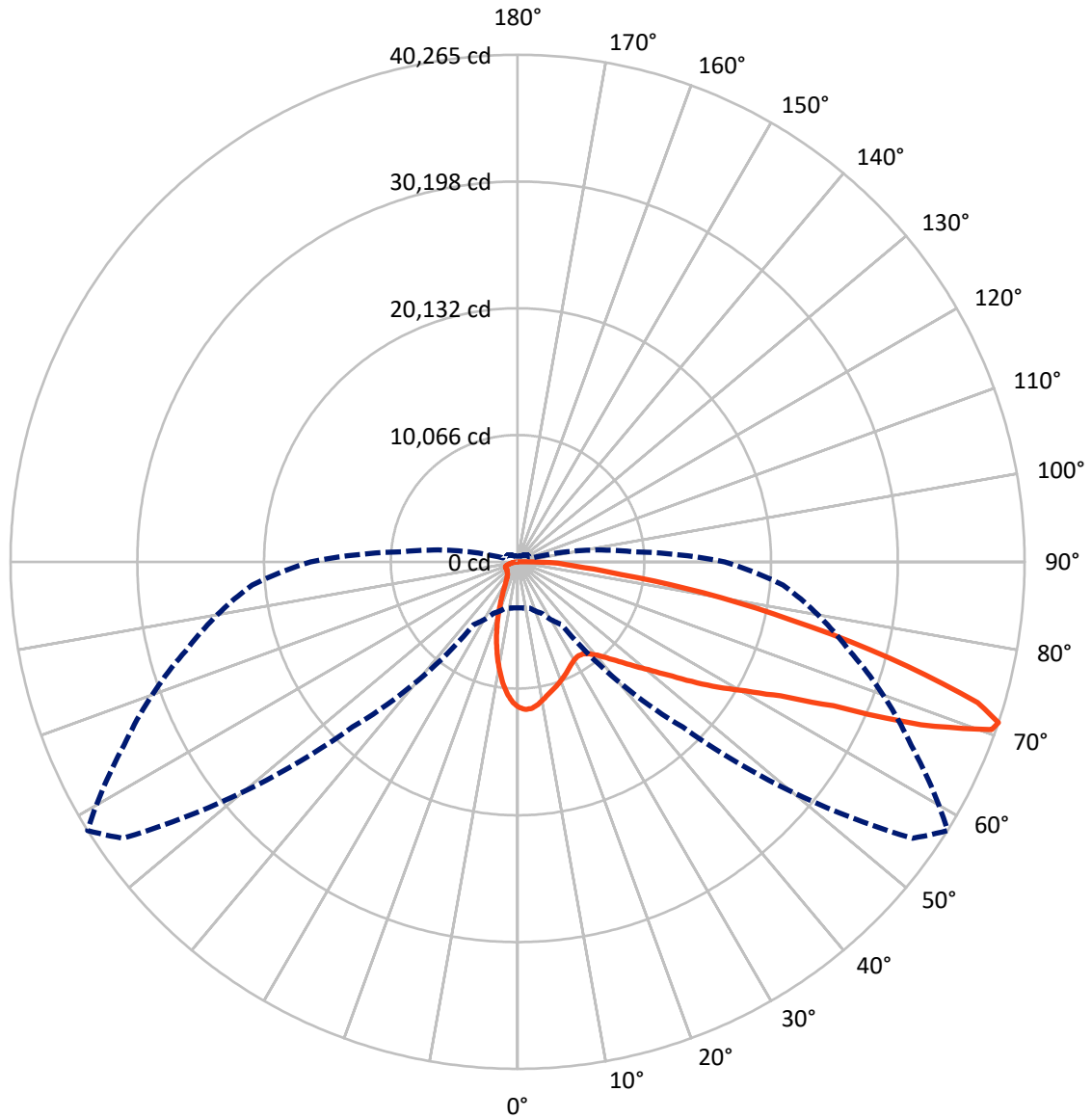
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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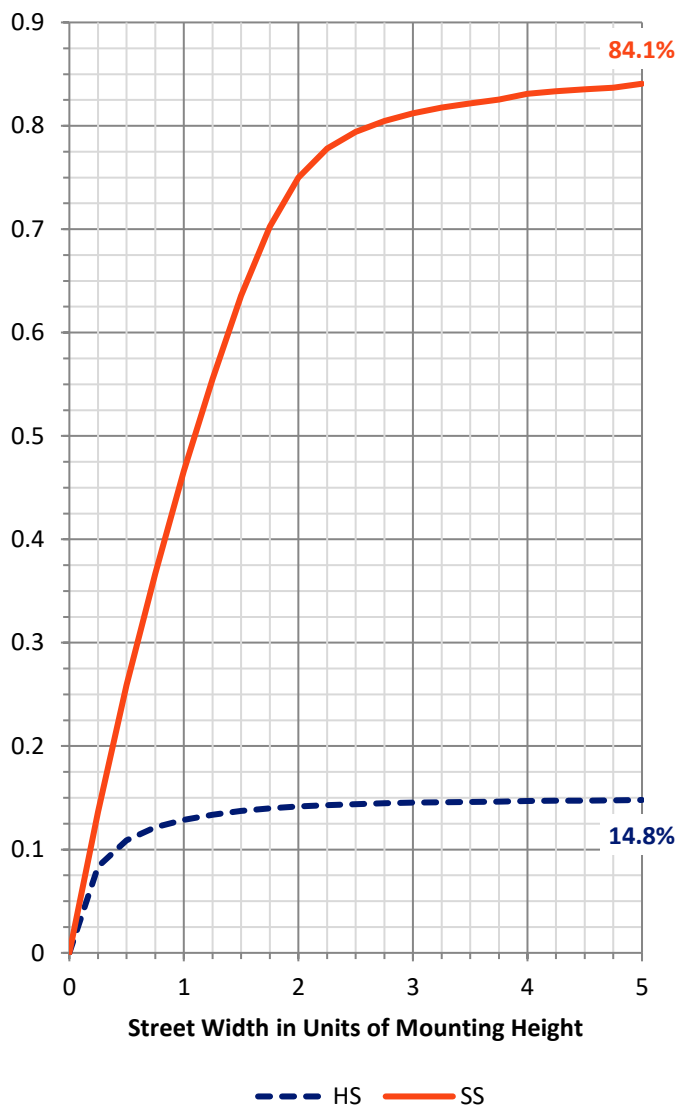
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6230.6	0.0	6230.6
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	35443.4	0.0	35443.4
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	41674.0	0.0	41674.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	996.1	2.4
10°-20°	2215.0	5.3
20°-30°	2815.0	6.8
30°-40°	3585.8	8.6
40°-50°	5084.8	12.2
50°-60°	7868.9	18.9
60°-70°	10712.5	25.7
70°-80°	7146.5	17.1
80°-90°	1249.5	3.0
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°	41674.0	100.0
0°-180°	41674.0	100.0

**Coefficient of Utilization**

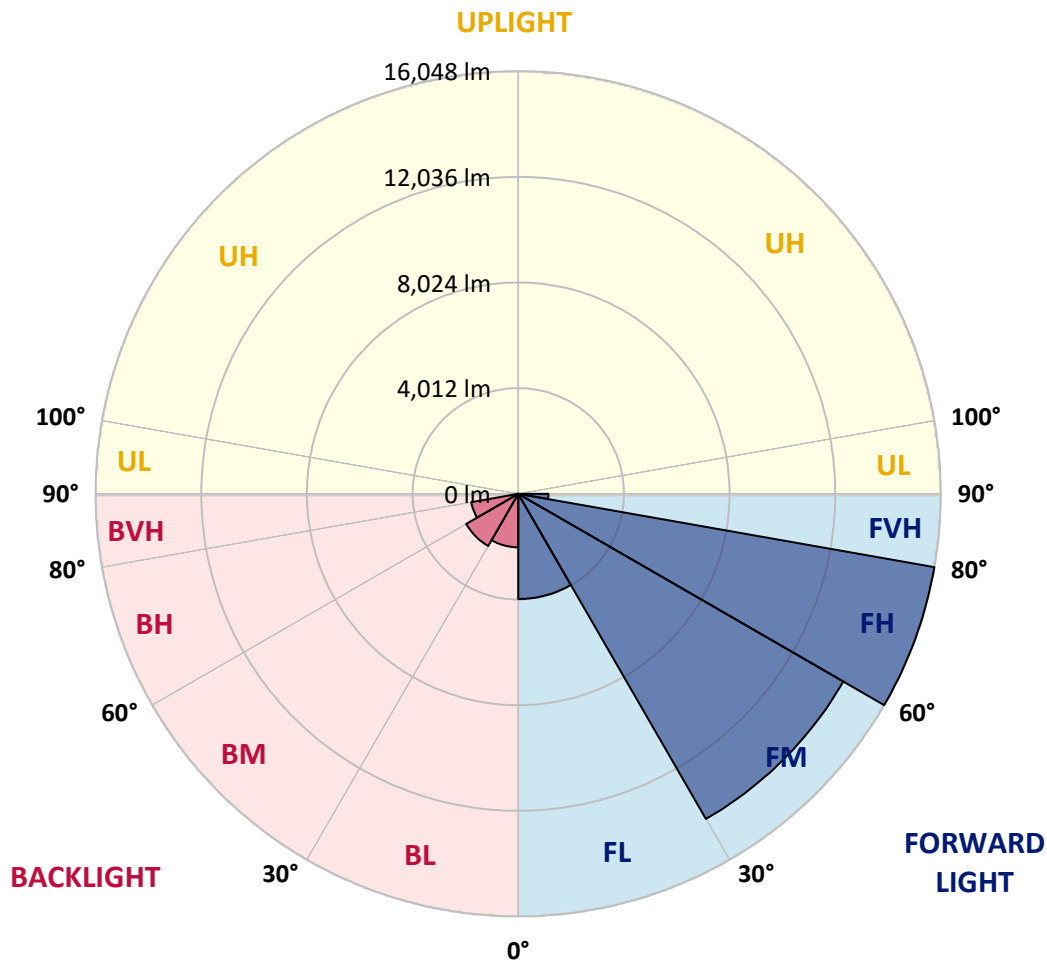


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3995.1	9.6			
FM (30°-60°)	14254.5	34.2			
FH (60°-80°)	16048.2	38.5			G5
FVH (80°-90°)	1145.6	2.7			G5
BL (0°-30°)	2031.0	4.9	B3/2500		
BM (30°-60°)	2284.9	5.5	B2/2500		
BH (60°-80°)	1810.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	103.8	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	11546.5	11546.5	11546.5	11546.5	11546.5	11546.5	11546.5	11546.5	11546.5	11546.5	11546.5
2.5°	11852.8	11836.8	11842.6	11831.0	11803.4	11775.8	11735.2	11742.5	11685.8	11601.6	11497.1
5°	11629.2	11623.4	11667.0	11691.6	11712.0	11696.0	11684.4	11698.9	11616.2	11500.0	11318.6
7.5°	11160.3	11096.5	11151.6	11234.4	11312.8	11372.3	11450.7	11460.8	11408.6	11286.6	11048.6
10°	10494.0	10433.1	10514.4	10643.6	10800.3	10942.6	11100.8	11129.9	11140.0	11029.7	10740.8
12.5°	9803.0	9756.6	9837.9	10019.3	10279.2	10498.4	10751.0	10794.5	10884.5	10810.5	10456.3
15°	9184.6	9167.2	9265.9	9444.5	9743.5	10078.9	10443.2	10523.1	10675.5	10650.8	10234.2
17.5°	8650.4	8646.1	8721.6	8908.8	9239.8	9663.7	10136.9	10271.9	10498.4	10527.4	10051.3
20°	8252.7	8244.0	8296.2	8434.1	8775.3	9255.8	9805.9	9991.8	10318.4	10420.0	9862.6
22.5°	8039.3	8037.8	8039.3	8104.6	8383.3	8830.4	9483.7	9710.1	10142.7	10334.3	9653.5
25°	8003.0	7998.6	7966.7	7959.4	8117.7	8474.8	9164.3	9414.0	9975.8	10274.8	9454.6
27.5°	8097.3	8103.2	8061.1	7992.8	8024.8	8241.1	8887.0	9154.2	9842.2	10263.2	9316.7
30°	8293.3	8290.4	8254.1	8183.0	8120.6	8154.0	8689.6	8956.7	9752.2	10314.0	9222.4
32.5°	8509.6	8525.6	8518.3	8479.1	8386.2	8252.7	8630.1	8891.4	9726.1	10436.0	9181.7
35°	8769.5	8786.9	8839.1	8869.6	8760.8	8545.9	8757.8	8984.3	9801.6	10665.3	9247.1
37.5°	9016.2	9061.2	9207.9	9337.1	9244.2	9004.6	9097.5	9258.7	10035.3	11026.8	9422.7
40°	9300.8	9340.0	9579.5	9853.9	9839.3	9591.1	9644.8	9752.2	10447.6	11545.0	9740.6
42.5°	9580.9	9659.3	10006.3	10395.3	10507.1	10287.9	10373.5	10430.2	11028.2	12231.7	10295.2
45°	9954.0	10038.2	10520.2	10989.0	11250.3	11127.0	11263.4	11285.2	11758.4	13166.5	11100.8
47.5°	10518.7	10614.5	11176.3	11668.4	12067.6	12080.7	12305.7	12297.0	12670.1	14236.4	12115.5
50°	11398.4	11536.3	11996.5	12456.7	12941.5	13211.5	13512.0	13469.9	13763.2	15376.0	13284.1
52.5°	12551.0	12614.9	12956.0	13295.7	13898.2	14503.5	14934.7	14896.9	15002.9	16547.4	14610.9
55°	13745.7	13793.6	13934.5	14120.3	14930.3	15917.4	16829.1	16769.5	16501.0	17763.9	15921.8
57.5°	14820.0	14917.2	15014.5	15091.4	15969.7	17395.2	18767.0	18771.4	18126.8	19076.2	17276.2
60°	14986.9	15072.6	15715.6	16322.4	17748.0	19366.6	20841.4	20797.9	19809.3	20500.3	18785.9
62.5°	13247.8	13440.9	14515.1	16129.4	19460.9	22972.5	23487.8	23434.1	21821.3	22255.4	20543.9
65°	9493.8	9713.0	11009.4	13435.1	18630.6	26945.7	28263.8	27540.8	24564.9	24414.0	22602.3
67.5°	5477.1	5529.4	6091.2	8039.3	14185.6	27153.3	35549.6	34537.8	28825.6	26862.9	23609.8
70°	4050.1	4048.7	4182.2	4947.2	7676.4	22161.0	39014.7	39922.0	33311.2	27668.6	22185.7
71°	3662.5	3666.9	3816.4	4503.0	6079.5	18549.3	38278.8	40264.6	34492.8	27270.8	21155.0
72.5°	3132.7	3147.2	3354.8	4038.5	5114.2	12792.0	35108.3	38209.1	35053.2	26289.5	19542.2
75°	2376.4	2409.8	2697.2	3404.1	4674.3	6487.5	25766.9	30510.9	31139.5	23197.5	14520.9
77.5°	1695.5	1733.3	2058.5	2862.7	4443.5	4889.2	17255.9	22255.4	22915.9	14866.4	6549.9
80°	1071.3	1116.3	1361.7	2277.7	4175.0	4642.4	10843.9	14959.3	12495.9	4757.1	1666.5
82.5°	628.6	663.4	844.9	1487.9	3409.9	4471.1	6380.0	8291.9	4863.1	1437.1	757.8
85°	364.4	380.3	527.0	947.9	2476.5	4220.0	4687.4	4635.1	2110.7	702.6	358.6
87.5°	169.8	188.7	312.1	495.0	1374.7	3058.6	3704.6	3200.9	1312.3	329.5	168.4
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°	11546.5	11546.5	11546.5	11546.5	11546.5	11546.5	11546.5	11546.5	11546.5	11546.5	11546.5
2.5°	11446.3	11421.6	11318.6	11227.1	11131.3	11006.5	10868.6	10851.1	10766.9	10782.9	10753.9
5°	11219.9	11157.4	10909.2	10684.2	10418.5	10180.5	9922.1	9803.0	9631.7	9620.1	9576.6
7.5°	10896.1	10780.0	10395.3	9968.5	9541.7	9135.3	8733.2	8469.0	8199.0	8084.3	8074.1
10°	10531.8	10334.3	9768.2	9136.7	8521.2	7927.5	7352.6	6927.3	6544.1	6362.6	6355.4
12.5°	10186.3	9894.5	9117.9	8258.5	7416.5	6647.1	5858.9	5300.0	4819.5	4658.4	4590.1
15°	9893.0	9482.2	8484.9	7386.0	6364.1	5295.6	4398.5	3810.6	3366.4	3212.5	3183.5
17.5°	9608.5	9080.1	7836.0	6504.9	5269.5	4095.1	3196.5	2759.6	2523.0	2460.6	2459.1
20°	9325.4	8666.4	7158.1	5603.4	4211.3	3063.0	2457.7	2261.7	2181.8	2174.6	2163.0
22.5°	9004.6	8228.0	6445.4	4699.0	3286.6	2408.3	2088.9	2010.5	2000.4	2026.5	2026.5
25°	8704.1	7792.5	5722.4	3813.5	2556.4	2009.1	1865.4	1849.4	1877.0	1923.4	1927.8
27.5°	8424.0	7373.0	5016.9	3026.7	2048.3	1769.6	1710.1	1728.9	1778.3	1832.0	1833.4
30°	8193.2	6976.7	4331.7	2385.1	1730.4	1591.0	1580.9	1618.6	1672.3	1714.4	1724.6
32.5°	8014.6	6638.4	3669.8	1917.6	1522.8	1457.5	1466.2	1498.1	1531.5	1554.7	1570.7
35°	7931.9	6348.1	3058.6	1617.1	1390.7	1354.4	1366.0	1383.4	1397.9	1415.4	1428.4
37.5°	7946.4	6123.1	2512.8	1429.9	1302.1	1283.3	1283.3	1283.3	1283.3	1292.0	1293.4
40°	8081.4	5993.9	2068.6	1310.8	1242.6	1222.3	1206.3	1191.8	1180.2	1186.0	1183.1
42.5°	8426.9	5982.3	1743.4	1235.4	1194.7	1161.3	1129.4	1109.1	1094.5	1100.4	1103.3
45°	9013.3	6127.4	1524.2	1181.6	1149.7	1098.9	1058.3	1036.5	1026.3	1045.2	1048.1
47.5°	9772.6	6443.9	1390.7	1142.5	1107.6	1040.8	997.3	977.0	979.9	1007.5	1014.7
50°	10751.0	6957.8	1326.8	1117.8	1078.6	991.5	946.5	929.1	937.8	977.0	985.7
52.5°	11825.2	7698.1	1334.1	1110.5	1059.7	955.2	907.3	887.0	901.5	937.8	945.0
55°	13064.9	8588.0	1454.6	1120.7	1032.1	932.0	875.3	840.5	852.1	885.5	891.3
57.5°	14442.5	9607.1	1697.0	1117.8	997.3	910.2	842.0	789.7	798.4	818.7	824.5
60°	15876.8	10838.1	2073.0	1126.5	981.3	884.1	797.0	731.6	728.7	746.2	749.1
62.5°	17598.4	12262.2	2502.7	1132.3	991.5	850.7	737.4	673.6	664.9	669.2	672.1
65°	19372.4	13292.8	2341.5	1109.1	1023.4	823.1	685.2	617.0	601.0	598.1	599.5
67.5°	19427.5	12188.1	1641.8	1062.6	1036.5	808.6	646.0	569.0	542.9	532.8	531.3
70°	17422.8	9901.8	1278.9	1013.3	984.2	785.3	609.7	529.9	490.7	474.7	473.2
71°	16444.4	9115.0	1212.1	988.6	945.0	762.1	593.7	512.4	471.8	454.4	451.5
72.5°	14910.0	8171.4	1130.8	949.4	869.5	702.6	563.2	487.8	445.7	425.3	421.0
75°	10700.2	5343.6	971.2	846.3	720.0	560.3	493.6	438.4	402.1	377.4	374.5
77.5°	4122.7	2126.7	734.5	704.1	551.6	438.4	406.5	378.9	352.8	328.1	326.6
80°	1274.6	950.8	535.7	529.9	399.2	326.6	316.5	309.2	299.0	272.9	267.1
82.5°	680.8	545.8	368.7	342.6	261.3	217.7	229.4	232.3	233.7	206.1	203.2
85°	325.2	288.9	207.6	194.5	152.4	121.9	140.8	152.4	153.9	126.3	117.6
87.5°	155.3	151.0	97.3	74.0	56.6	40.6	49.4	61.0	66.8	47.9	42.1
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)