

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: P319502

Luminaire Tested: **GLEON-SA8D-827-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319502  
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-SA8D-827-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 1200mA 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: 44783 lumens  
Efficiency: N/A  
Efficacy: 87.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G5

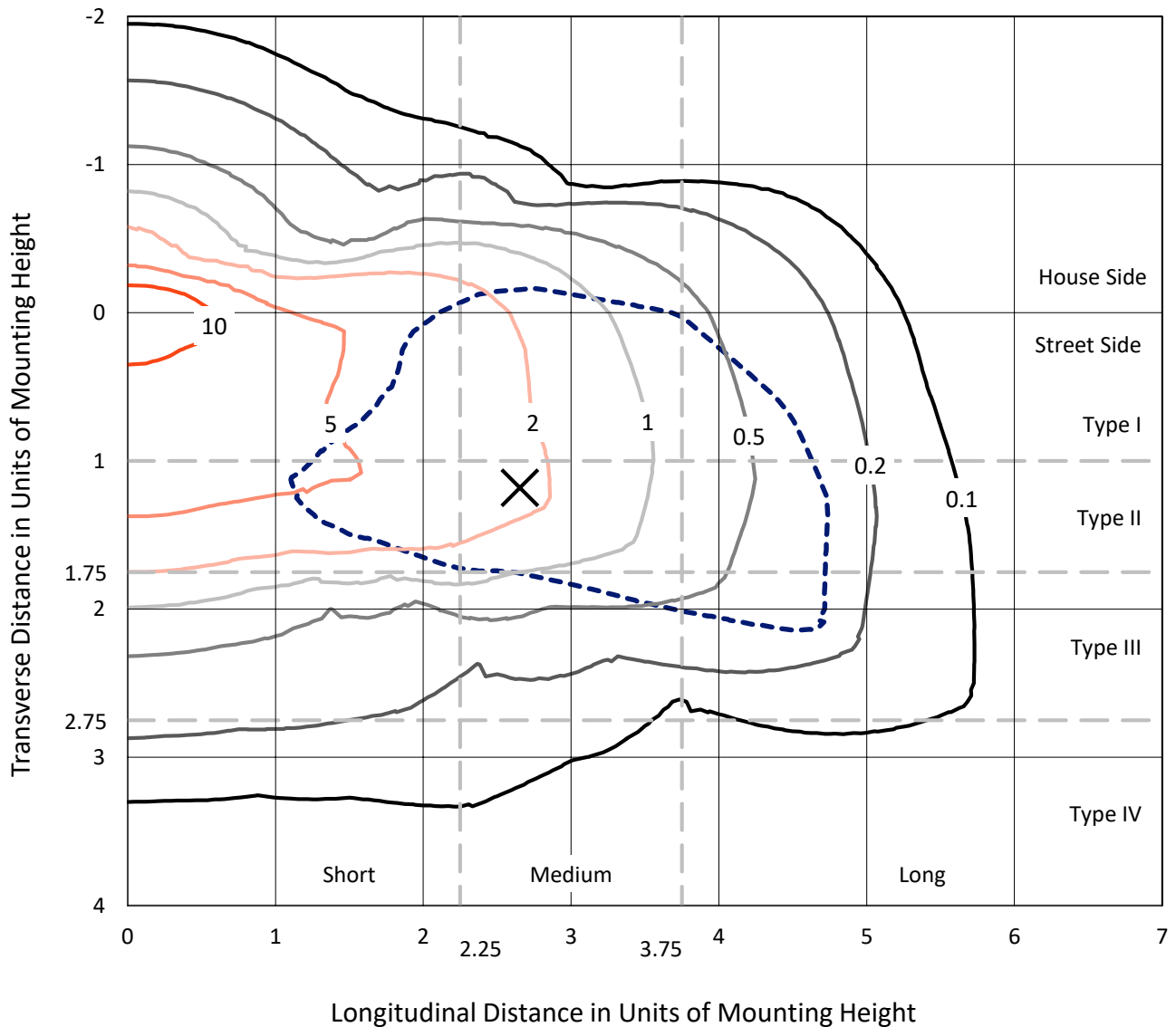
Input Watts (W): 511  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

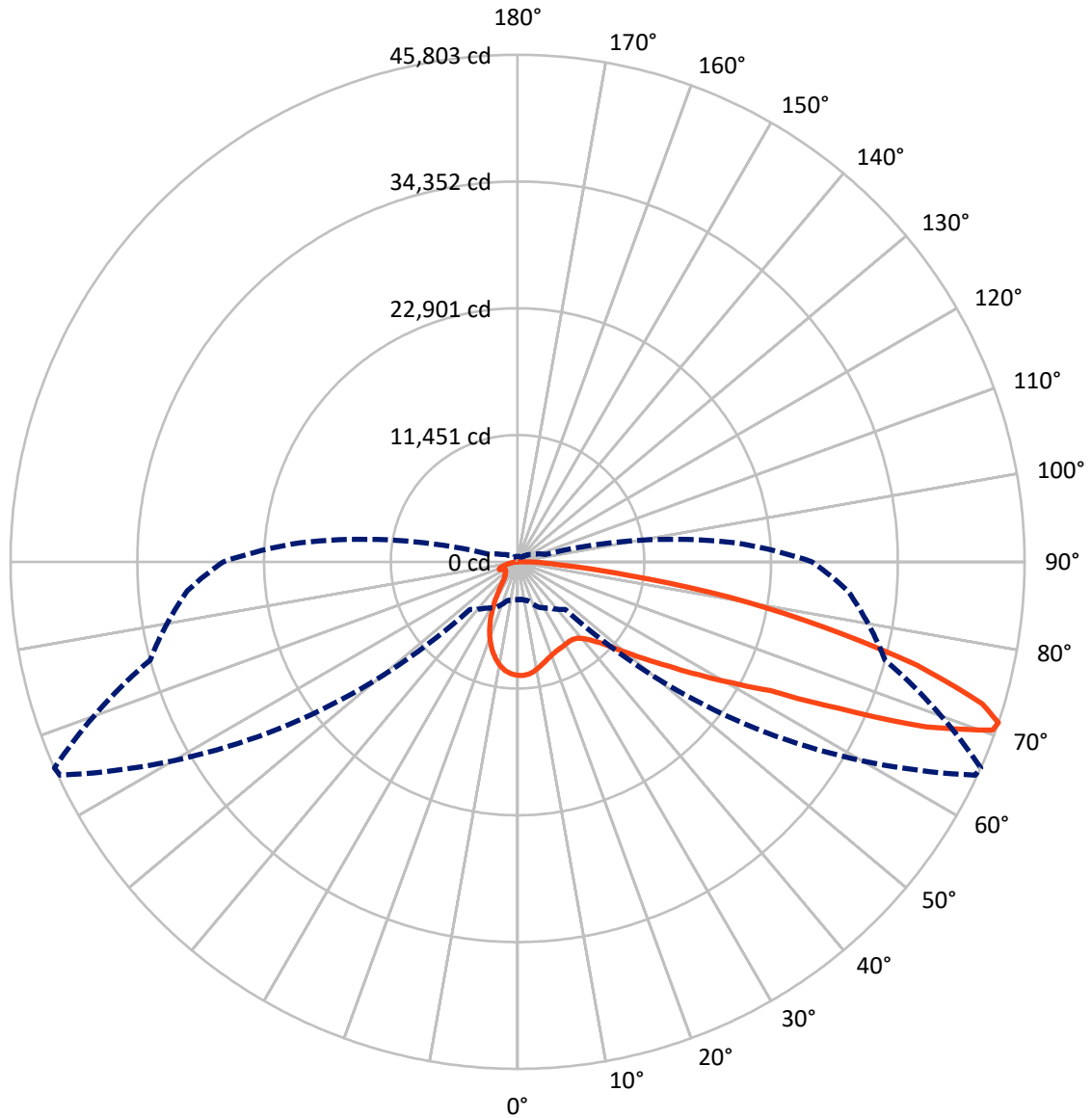
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 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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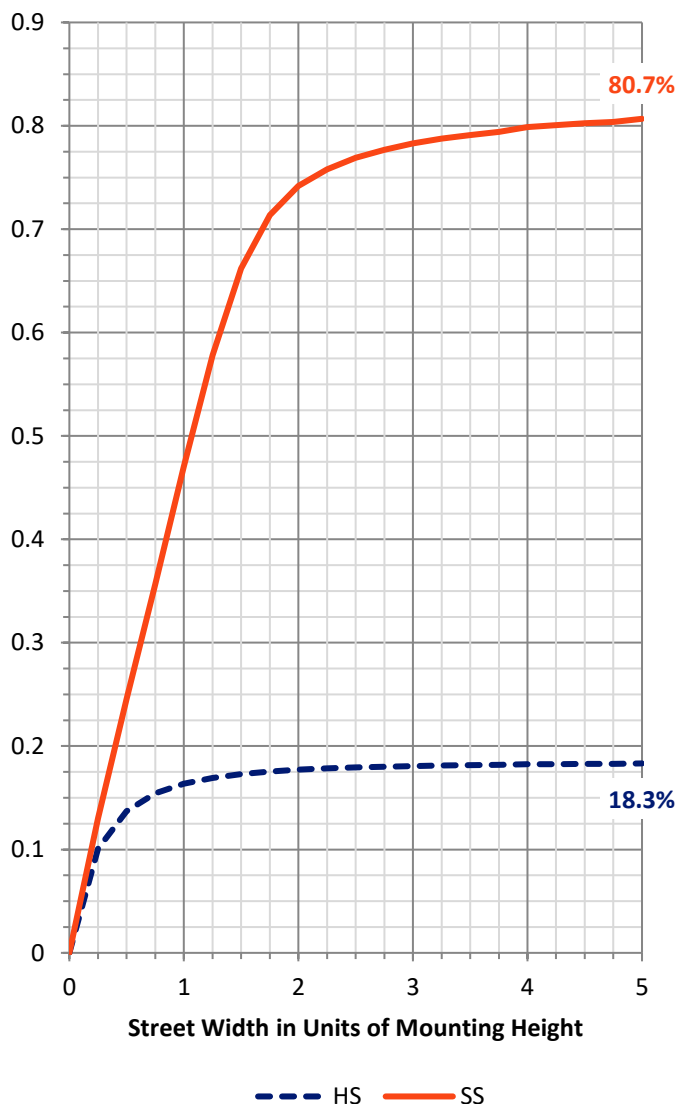
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8299.5	0.0	8299.5
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	36483.5	0.0	36483.5
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	44783.0	0.0	44783.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	903.0	2.0
10°-20°	2165.9	4.8
20°-30°	2909.3	6.5
30°-40°	3827.1	8.5
40°-50°	5567.5	12.4
50°-60°	8697.0	19.4
60°-70°	10894.4	24.3
70°-80°	8310.0	18.6
80°-90°	1509.0	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°	44783.0	100.0
0°-180°	44783.0	100.0

**Coefficient of Utilization**

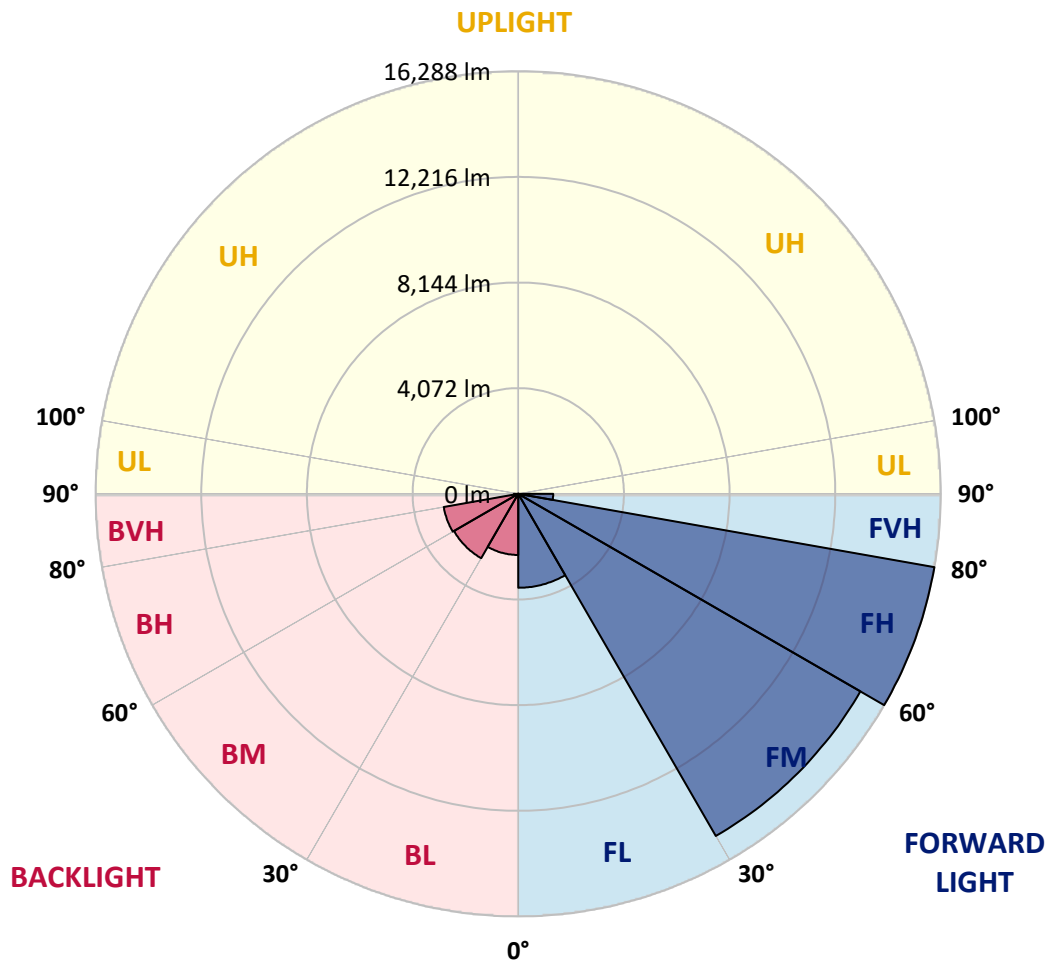


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3621.3	8.1			
FM (30°-60°)	15228.5	34.0			
FH (60°-80°)	16288.0	36.4			G5
FVH (80°-90°)	1345.7	3.0			G5
BL (0°-30°)	2356.8	5.3	B3/2500		
BM (30°-60°)	2863.1	6.4	B3/5000		
BH (60°-80°)	2916.3	6.5	B4/5000		G4/5000
BVH (80°-90°)	163.3	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°	10258.9	10258.9	10258.9	10258.9	10258.9	10258.9	10258.9	10258.9	10258.9	10258.9	10258.9
2.5°	10068.7	10053.3	10099.7	10147.6	10166.1	10197.1	10243.5	10269.7	10268.2	10272.8	10257.4
5°	9400.8	9380.7	9473.5	9549.2	9694.6	9858.5	10057.9	10200.2	10203.3	10283.7	10305.3
7.5°	8768.4	8754.5	8861.2	8983.3	9151.9	9402.3	9725.5	10031.6	10050.2	10268.2	10344.0
10°	8261.3	8258.2	8361.8	8494.7	8691.1	8970.9	9342.0	9790.4	9818.3	10194.0	10350.1
12.5°	7865.4	7871.6	7961.3	8112.8	8320.0	8612.2	9014.2	9519.8	9564.7	10076.5	10314.6
15°	7573.2	7597.9	7670.6	7823.7	8027.8	8324.6	8737.5	9269.4	9337.4	9945.0	10294.5
17.5°	7406.2	7434.0	7485.1	7611.9	7803.6	8089.6	8480.8	9063.7	9125.6	9844.5	10296.0
20°	7356.7	7379.9	7409.3	7486.6	7649.0	7908.7	8278.3	8878.2	8944.7	9764.1	10311.5
22.5°	7454.1	7471.2	7474.2	7468.1	7567.0	7778.8	8131.4	8742.1	8813.2	9711.6	10322.3
25°	7662.9	7686.1	7669.1	7611.9	7579.4	7709.3	8055.6	8652.4	8723.6	9672.9	10300.7
27.5°	7976.8	7979.8	7965.9	7891.7	7738.6	7717.0	8032.4	8599.9	8667.9	9628.1	10255.8
30°	8403.5	8423.6	8398.9	8298.4	8047.9	7840.7	8060.2	8548.8	8610.7	9570.9	10183.2
32.5°	8902.9	8952.4	8950.8	8845.7	8487.0	8117.5	8174.7	8517.9	8565.8	9510.6	10095.0
35°	9420.9	9488.9	9615.7	9570.9	9127.1	8555.0	8394.2	8567.4	8599.9	9502.8	10033.2
37.5°	9959.0	10027.0	10288.3	10408.9	9889.4	9181.2	8740.6	8742.1	8757.6	9597.2	10028.5
40°	10521.8	10594.4	10987.2	11301.0	10877.4	9974.4	9298.7	9107.0	9090.0	9829.1	10119.8
42.5°	11310.3	11375.3	11846.8	12247.3	11973.6	10990.3	10070.3	9669.8	9634.3	10283.7	10412.0
45°	12307.6	12363.3	12864.2	13292.5	13151.8	12149.9	11039.7	10444.5	10438.3	11041.3	11004.2
47.5°	13493.5	13536.8	13986.8	14401.1	14452.2	13484.3	12258.1	11639.7	11539.2	12080.3	11921.1
50°	14728.9	14776.9	15083.0	15528.3	15907.1	15270.1	13826.0	13103.9	12969.4	13451.8	13219.9
52.5°	15546.9	15610.3	15876.2	16440.6	17543.0	17227.6	15679.8	14878.9	14674.8	15113.9	14936.1
55°	15182.0	15324.2	15730.9	16635.4	18851.1	20217.9	17966.6	16949.2	16718.9	17083.8	16978.6
57.5°	13522.9	13717.7	14272.8	15669.0	19035.0	22852.6	21423.9	19387.6	19225.2	19120.1	19168.0
60°	10490.8	10677.9	11366.0	13185.8	17753.3	24776.0	26626.8	22393.4	22158.3	21164.1	21207.4
62.5°	7424.8	7330.4	7802.0	9133.3	14425.9	25001.8	32547.1	26413.4	25640.3	23322.6	23132.4
65°	5662.1	5640.5	5852.3	6276.0	8737.5	22300.6	36074.0	33170.2	31962.7	25861.4	25413.0
67.5°	4652.5	4613.8	4822.5	5439.5	5626.6	14387.2	36151.3	41009.4	39823.5	29021.8	28050.8
70°	3825.3	3782.0	3976.8	4773.1	5199.8	7296.4	30425.8	45600.0	45536.6	33023.4	30042.3
71°	3429.4	3398.5	3632.0	4516.4	5108.6	6081.1	26269.6	45612.4	45802.6	34377.8	29924.8
72.5°	2792.4	2803.2	3050.6	4020.1	5040.6	5369.9	19307.2	43486.4	43888.4	35668.9	28856.4
75°	1855.4	1864.7	2189.4	3092.4	4887.5	5253.9	10611.4	36489.9	37229.0	34895.8	26331.5
77.5°	1246.2	1243.1	1464.2	2121.4	4258.2	5253.9	6221.8	27291.7	28103.4	27766.3	20299.8
80°	858.1	851.9	1008.1	1464.2	3223.8	5317.3	4810.2	19126.3	19372.1	14994.9	8250.4
82.5°	525.7	530.3	658.7	1034.4	2194.0	4785.4	4541.1	10429.0	10161.5	4205.6	2061.1
85°	301.5	300.0	420.6	700.4	1408.6	4038.6	4428.3	4488.6	4117.5	1266.3	745.3
87.5°	108.2	116.0	225.7	388.1	807.1	2812.5	3757.2	2334.7	2104.4	572.1	337.1
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°	10258.9	10258.9	10258.9	10258.9	10258.9	10258.9	10258.9	10258.9	10258.9	10258.9	10258.9
2.5°	10246.5	10255.8	10245.0	10183.2	10130.6	10045.5	9997.6	9931.1	9911.0	9901.8	9926.5
5°	10285.2	10288.3	10197.1	10034.7	9852.3	9637.4	9482.7	9292.6	9202.9	9164.2	9189.0
7.5°	10320.8	10306.8	10107.4	9796.6	9459.5	9085.4	8752.9	8448.3	8270.5	8197.9	8204.0
10°	10325.4	10266.6	9946.6	9465.7	8943.1	8394.2	7884.0	7413.9	7117.1	6923.8	6982.6
12.5°	10277.5	10178.5	9710.0	9037.4	8312.3	7563.9	6874.3	6169.3	5745.6	5549.2	5555.4
15°	10240.4	10061.0	9419.3	8533.4	7559.3	6568.2	5626.6	4797.8	4346.3	4145.3	4051.0
17.5°	10209.4	9934.2	9082.3	7965.9	6670.2	5413.2	4281.4	3542.3	3294.9	3236.2	3211.4
20°	10166.1	9799.7	8706.6	7308.8	5657.5	4120.6	3126.4	2761.5	2763.0	2831.1	2840.3
22.5°	10105.8	9646.6	8306.1	6571.3	4570.5	3001.1	2450.7	2345.6	2452.2	2582.1	2605.3
25°	10016.2	9465.7	7860.8	5756.4	3485.1	2306.9	2093.5	2088.9	2218.8	2354.8	2374.9
27.5°	9889.4	9229.2	7366.0	4881.3	2568.2	1960.6	1875.5	1908.0	2003.9	2102.8	2110.5
30°	9719.3	8953.9	6820.2	3958.2	2013.1	1745.6	1736.4	1765.7	1824.5	1894.1	1900.3
32.5°	9532.2	8674.1	6237.3	3064.5	1724.0	1629.7	1639.0	1652.9	1680.7	1708.5	1714.7
35°	9362.1	8388.0	5640.5	2328.6	1586.4	1553.9	1547.7	1544.6	1547.7	1538.5	1540.0
37.5°	9252.4	8151.5	5018.9	1853.9	1507.5	1487.4	1468.9	1445.7	1419.4	1403.9	1407.0
40°	9212.2	7975.2	4389.6	1601.8	1442.6	1428.7	1393.1	1343.6	1312.7	1303.4	1303.4
42.5°	9320.4	7884.0	3782.0	1475.1	1388.5	1365.3	1306.5	1249.3	1226.1	1224.6	1223.0
45°	9651.3	7921.1	3203.7	1405.5	1339.0	1294.2	1216.8	1168.9	1153.5	1156.5	1155.0
47.5°	10245.0	8154.6	2708.9	1359.1	1289.5	1230.8	1144.2	1105.5	1087.0	1087.0	1088.5
50°	11254.7	8700.4	2314.6	1320.4	1247.8	1172.0	1091.6	1043.7	1018.9	1017.4	1017.4
52.5°	12725.1	9677.6	2068.8	1288.0	1201.4	1119.4	1039.0	978.7	949.4	943.2	940.1
55°	14568.1	11078.4	2000.8	1266.3	1139.5	1062.2	975.6	915.3	882.9	869.0	867.4
57.5°	16629.2	12782.3	2135.3	1240.0	1076.1	994.2	906.1	848.9	814.8	797.8	796.3
60°	18715.0	14642.3	2684.2	1202.9	1023.6	920.0	834.9	782.4	748.4	729.8	726.7
62.5°	20803.9	16602.9	3805.2	1199.8	986.5	848.9	762.3	717.4	685.0	664.9	660.2
65°	23160.3	18749.0	5079.2	1281.8	974.1	783.9	688.1	652.5	624.7	606.1	604.6
67.5°	25866.1	21171.9	4957.1	1450.3	1015.8	725.2	618.5	590.6	570.5	555.1	553.5
70°	27135.5	20793.1	3081.5	1569.4	1074.6	668.0	552.0	531.9	516.4	505.6	501.0
71°	26603.6	19743.2	2583.7	1555.5	1068.4	643.2	525.7	510.2	494.8	485.5	480.9
72.5°	25153.3	18005.3	2155.4	1447.2	998.8	598.4	491.7	476.2	462.3	451.5	448.4
75°	22571.2	16080.3	1725.5	1156.5	796.3	505.6	431.4	414.4	403.6	397.4	391.2
77.5°	16592.1	11475.8	1334.4	913.8	586.0	412.8	368.0	355.6	344.8	335.5	330.9
80°	6356.4	4445.3	898.3	681.9	429.8	326.2	296.9	290.7	279.9	273.7	273.7
82.5°	1711.6	1328.2	479.3	412.8	287.6	238.1	227.3	224.2	214.9	202.5	204.1
85°	692.7	586.0	269.0	227.3	176.3	140.7	153.1	154.6	143.8	128.3	129.9
87.5°	304.6	248.9	150.0	100.5	77.3	54.1	69.6	69.6	63.4	52.6	47.9
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)