

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: P320130

Luminaire Tested: **GLEON-SA6C-827-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P320130  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA6C-827-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 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: 29550 lumens  
Efficiency: N/A  
Efficacy: 88.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

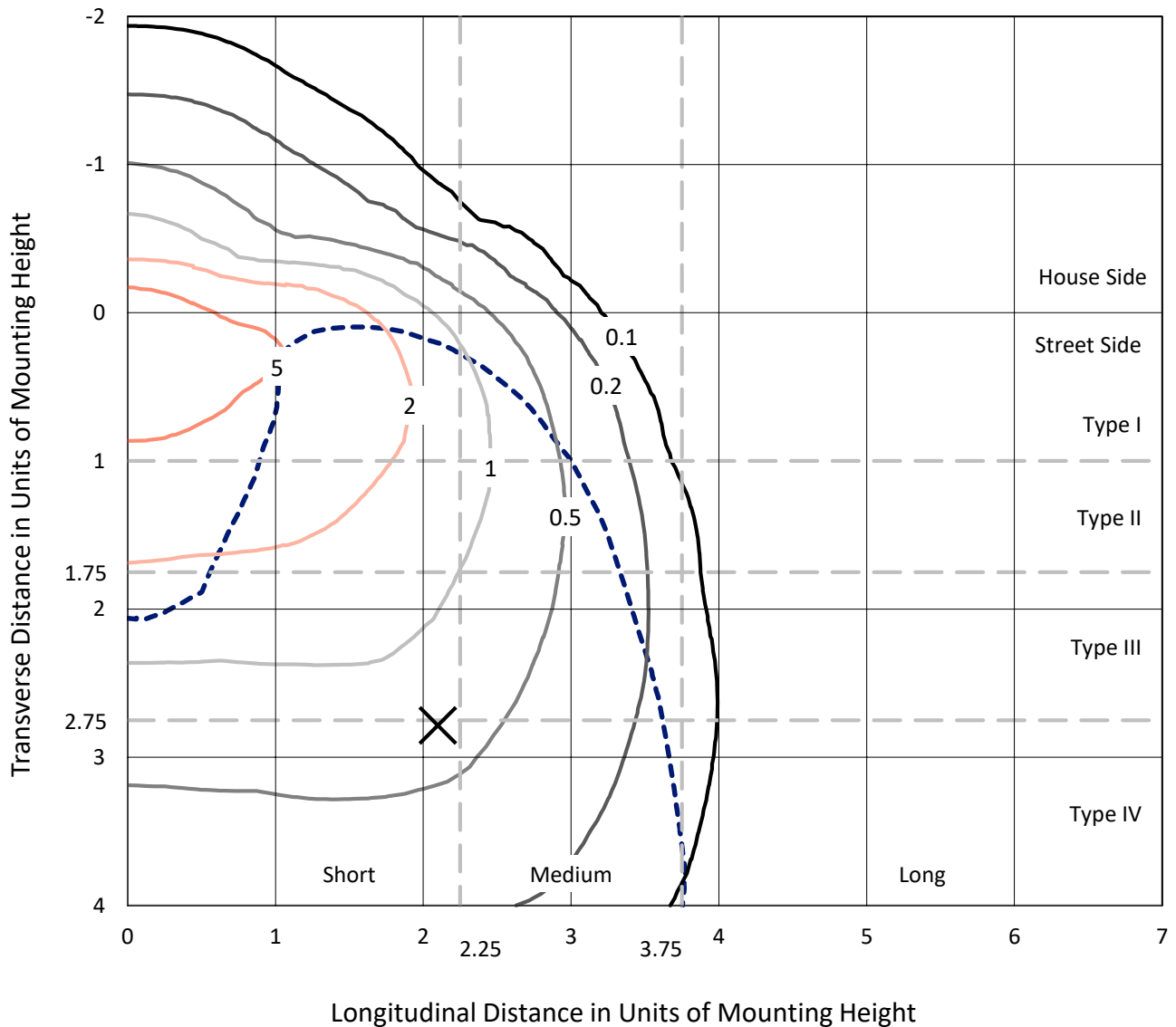
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

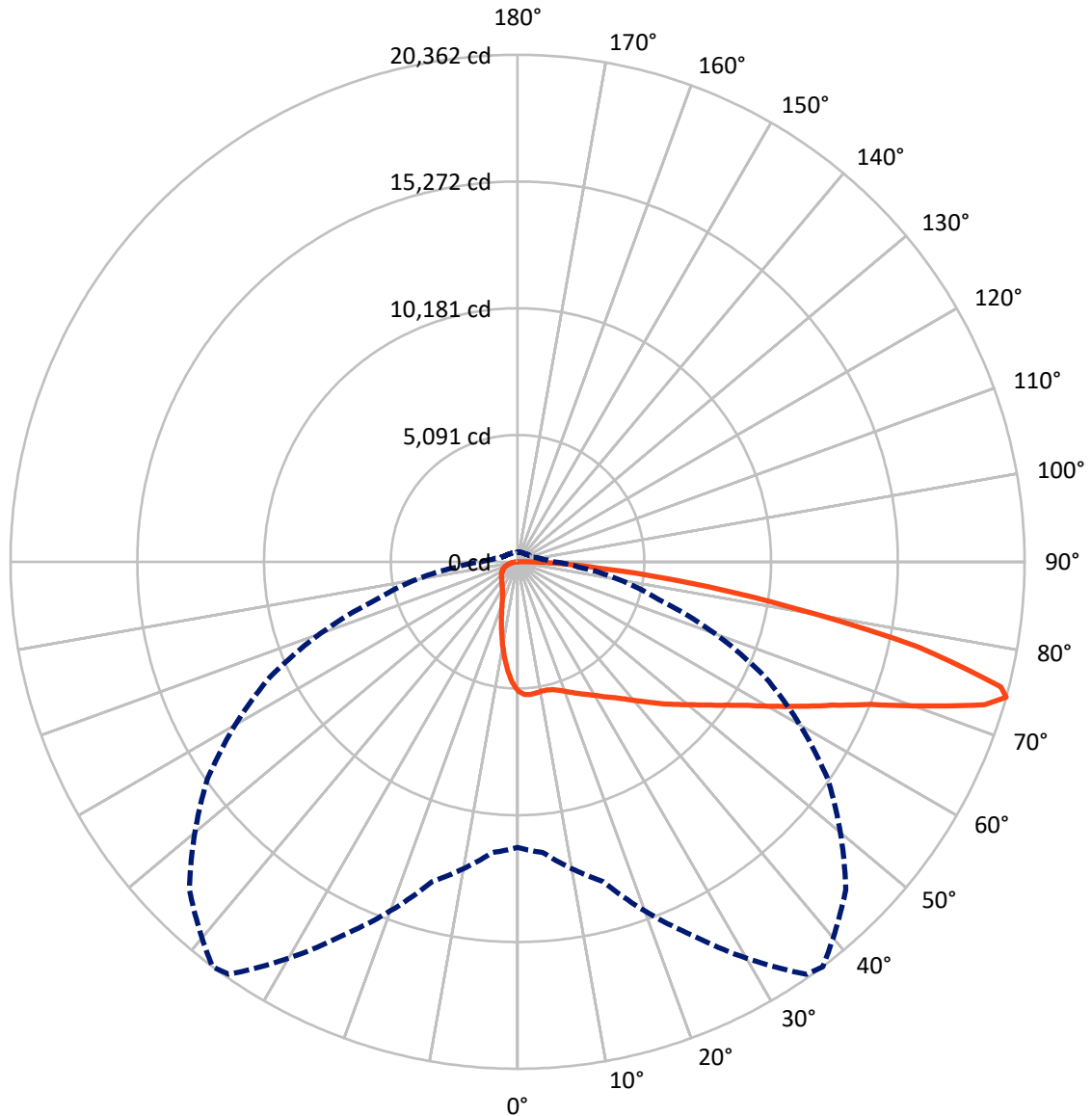
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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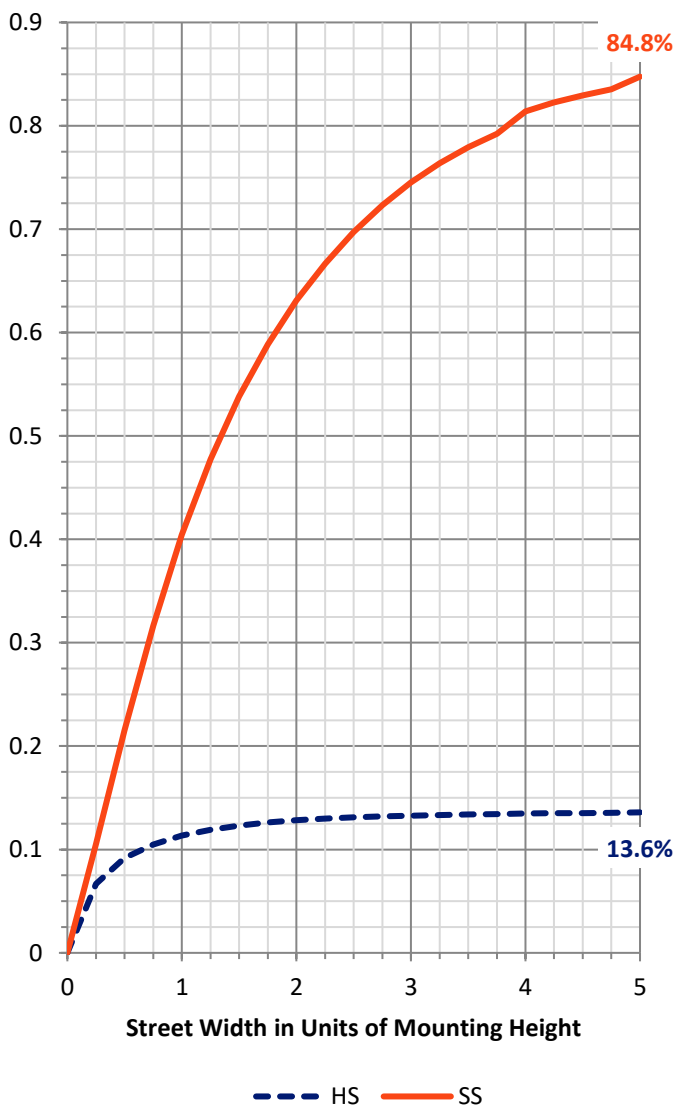
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4065.9	0.0	4065.9
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	25484.1	0.0	25484.1
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	29550.0	0.0	29550.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	458.5	1.6
10°-20°	1175.3	4.0
20°-30°	1810.8	6.1
30°-40°	2633.2	8.9
40°-50°	3875.7	13.1
50°-60°	5442.7	18.4
60°-70°	6888.7	23.3
70°-80°	6065.8	20.5
80°-90°	1199.3	4.1
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°	29550.0	100.0
0°-180°	29550.0	100.0

**Coefficient of Utilization**



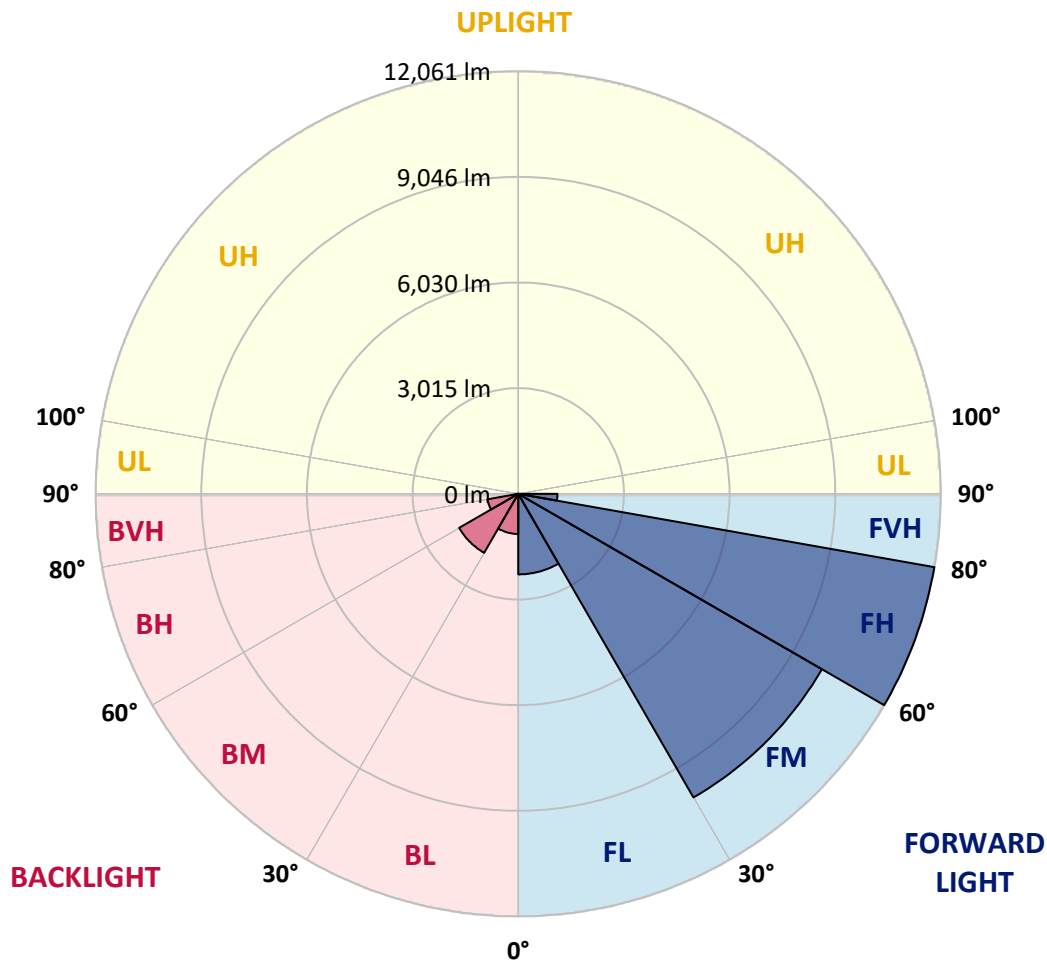
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2299.3	7.8			
FM (30°-60°)	10005.9	33.9			
FH (60°-80°)	12060.8	40.8			G5
FVH (80°-90°)	1118.1	3.8			G5
BL (0°-30°)	1145.3	3.9	B3/2500		
BM (30°-60°)	1945.7	6.6	B2/2500		
BH (60°-80°)	893.7	3.0	B2/1000		G2/1000
BVH (80°-90°)	81.2	0.3			G1/100
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°	37°	45°	55°	65°	75°	85°
0°	5206.6	5206.6	5206.6	5206.6	5206.6	5206.6	5206.6	5206.6	5206.6	5206.6	5206.6
2.5°	5384.6	5385.6	5384.6	5376.3	5356.5	5339.8	5326.3	5306.5	5262.8	5229.5	5179.5
5°	5435.6	5429.3	5425.2	5409.6	5378.3	5359.6	5333.6	5296.1	5224.3	5157.7	5076.5
7.5°	5411.7	5404.4	5395.0	5376.3	5340.9	5325.3	5288.8	5239.9	5153.5	5066.1	4949.5
10°	5337.7	5335.7	5331.5	5327.3	5297.2	5284.7	5251.4	5199.3	5114.0	5007.8	4871.4
12.5°	5255.5	5260.7	5277.4	5299.2	5285.7	5279.5	5258.6	5223.2	5135.8	5021.3	4856.9
15°	5203.5	5218.0	5262.8	5320.1	5331.5	5329.4	5324.2	5301.3	5208.7	5081.7	4890.2
17.5°	5185.8	5209.7	5295.1	5389.8	5423.1	5430.4	5432.5	5392.9	5289.9	5155.6	4924.5
20°	5218.0	5248.2	5373.1	5503.3	5556.3	5560.5	5551.1	5482.4	5366.9	5219.1	4943.2
22.5°	5315.9	5343.0	5499.1	5645.9	5706.2	5712.5	5684.4	5580.3	5448.1	5294.0	4969.3
25°	5504.3	5537.6	5693.7	5840.5	5871.7	5872.8	5832.2	5703.1	5554.3	5399.2	5025.5
27.5°	5749.9	5783.3	5923.8	6067.4	6050.8	6041.4	5986.2	5857.2	5692.7	5543.8	5125.4
30°	6023.7	6060.1	6193.4	6295.4	6255.8	6237.1	6192.3	6025.8	5885.3	5741.6	5278.4
32.5°	6306.8	6340.1	6456.7	6526.5	6476.5	6468.2	6400.5	6248.5	6136.1	6043.5	5526.2
35°	6597.2	6621.2	6735.7	6775.2	6708.6	6706.5	6687.8	6548.3	6477.5	6521.3	5886.3
37.5°	6893.9	6900.1	6998.0	7000.1	6980.3	6988.6	7008.4	6921.0	6940.7	7077.1	6354.7
40°	7158.3	7174.9	7245.7	7267.6	7301.9	7331.1	7430.0	7372.7	7525.7	7767.2	6937.6
42.5°	7354.0	7386.2	7499.7	7555.9	7667.3	7713.1	7852.6	7905.7	8213.8	8576.0	7630.9
45°	7519.5	7569.4	7751.6	7867.1	8055.5	8135.7	8335.5	8513.5	8991.3	9453.5	8360.5
47.5°	7698.5	7762.0	7990.0	8210.6	8466.7	8557.3	8920.5	9187.0	9820.9	10336.2	9048.6
50°	7961.9	8010.8	8233.5	8580.2	8899.7	9016.3	9519.1	9901.1	10664.0	11177.2	9645.0
52.5°	8329.3	8310.6	8499.0	8985.1	9413.9	9557.6	10158.2	10660.9	11518.6	11938.1	10148.8
55°	8698.8	8667.6	8799.8	9408.7	10013.5	10164.4	10861.8	11423.9	12331.6	12623.0	10535.0
57.5°	9110.0	9050.6	9162.0	9886.5	10696.3	10876.4	11649.8	12234.8	13131.0	13176.8	10780.6
60°	9533.6	9453.5	9578.4	10478.8	11563.4	11775.7	12572.0	13025.9	13884.6	13620.2	10859.7
62.5°	9904.2	9848.0	10040.5	11139.7	12540.8	12774.0	13477.6	13866.9	14627.8	13804.5	10574.5
65°	10227.9	10237.3	10570.4	11882.9	13630.6	13879.4	14516.4	14903.6	15212.8	13695.2	9907.3
67.5°	10614.1	10667.2	11235.5	12861.4	15002.5	15275.2	16027.8	16034.1	15539.6	13054.0	8593.7
70°	11177.2	11286.5	12150.5	14218.7	16953.2	17327.9	17908.7	16698.2	15080.6	11315.7	6761.7
72.5°	11676.8	11880.9	13123.7	15771.8	19330.6	19614.8	19009.0	16315.1	13162.2	8480.2	4212.5
74°	11473.9	11726.8	13300.7	16536.8	20225.8	20362.1	18637.4	15197.2	10974.2	5872.8	2448.2
75°	11036.7	11311.5	13042.5	16529.5	20112.3	20036.3	17740.1	13920.0	9038.2	4005.4	1629.0
77.5°	8907.0	9197.4	10989.9	14166.7	16491.0	16419.2	13627.5	9337.9	3958.6	1313.6	827.5
80°	5178.5	5400.2	6822.1	8996.5	11120.0	11250.1	8962.2	4620.6	1557.2	738.0	561.0
82.5°	2300.4	2453.4	3295.5	4592.5	6710.7	6878.3	4693.4	2421.1	961.8	448.6	337.3
85°	1509.3	1622.8	2000.6	2186.9	3195.6	3310.1	2297.3	1885.1	635.0	246.7	247.7
87.5°	1085.7	1195.0	1486.4	1298.0	1466.6	1388.6	1250.1	1744.6	255.0	140.5	83.3
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°	5206.6	5206.6	5206.6	5206.6	5206.6	5206.6	5206.6	5206.6	5206.6	5206.6	5206.6
2.5°	5157.7	5141.0	5103.5	5032.8	4993.2	4959.9	4904.7	4872.5	4857.9	4856.9	4863.1
5°	5029.6	4991.1	4894.3	4775.7	4680.9	4594.5	4487.3	4422.8	4377.0	4349.9	4357.2
7.5°	4880.8	4820.4	4668.4	4479.0	4327.0	4159.4	3993.9	3895.1	3818.0	3760.8	3771.2
10°	4778.8	4695.5	4473.8	4201.1	3948.1	3704.6	3476.6	3340.3	3232.0	3148.7	3155.0
12.5°	4744.4	4632.0	4325.0	3960.6	3605.7	3272.6	2974.9	2765.7	2654.3	2559.6	2566.9
15°	4749.6	4598.7	4200.0	3744.1	3297.6	2878.1	2516.9	2272.3	2121.4	2055.8	2056.8
17.5°	4753.8	4560.2	4068.9	3512.0	2992.6	2509.6	2117.2	1869.5	1726.9	1666.5	1667.5
20°	4740.3	4497.7	3906.5	3245.5	2674.1	2171.3	1791.4	1581.1	1472.9	1426.0	1426.0
22.5°	4722.6	4423.8	3723.3	2978.0	2359.7	1877.8	1558.2	1397.9	1335.5	1304.3	1303.2
25°	4730.9	4368.7	3535.9	2703.2	2070.4	1643.6	1403.1	1297.0	1255.3	1235.6	1234.5
27.5°	4775.7	4342.6	3363.2	2429.5	1817.4	1467.7	1299.0	1224.1	1197.0	1184.5	1184.5
30°	4856.9	4342.6	3183.1	2196.3	1607.2	1337.6	1218.9	1167.9	1149.2	1140.8	1140.8
32.5°	4998.4	4366.6	3009.2	1965.2	1439.6	1235.6	1152.3	1117.9	1103.4	1099.2	1099.2
35°	5242.0	4447.8	2839.6	1746.6	1304.3	1152.3	1088.8	1069.0	1058.6	1057.6	1060.7
37.5°	5584.4	4613.3	2680.3	1585.3	1208.5	1084.6	1035.7	1020.1	1013.8	1019.0	1023.2
40°	6015.4	4838.1	2535.6	1439.6	1135.6	1030.5	986.8	976.4	973.2	980.5	986.8
42.5°	6535.8	5142.1	2417.0	1334.4	1079.4	984.7	945.1	932.6	929.5	937.9	946.2
45°	7099.0	5468.9	2333.7	1256.4	1035.7	950.3	908.7	895.2	888.9	893.1	902.5
47.5°	7611.1	5778.1	2300.4	1201.2	994.1	921.2	876.4	859.8	849.4	847.3	854.6
50°	8043.1	6008.1	2316.0	1167.9	960.8	888.9	845.2	826.5	810.9	801.5	806.7
52.5°	8357.4	6152.8	2330.6	1153.3	934.7	853.5	810.9	793.2	772.3	756.7	756.7
55°	8585.4	6186.1	2298.3	1141.9	915.0	815.0	772.3	755.7	734.9	717.2	715.1
57.5°	8674.9	6092.4	2178.6	1125.2	901.4	778.6	731.8	719.3	701.6	680.8	679.7
60°	8554.1	5803.0	1947.5	1089.8	883.7	748.4	691.2	682.8	674.5	654.7	653.7
62.5°	8069.1	5168.1	1648.8	1018.0	848.3	716.1	653.7	657.9	658.9	645.4	643.3
65°	7189.5	4295.8	1357.3	924.3	795.2	677.6	615.2	635.0	646.4	644.3	641.2
67.5°	5911.3	3343.4	1150.2	825.4	725.5	624.5	573.5	596.4	605.8	613.1	611.0
70°	4387.4	2357.6	951.4	721.3	641.2	562.1	519.4	530.9	524.6	532.9	536.1
72.5°	2446.1	1414.6	775.5	617.3	553.8	489.2	459.0	457.0	443.4	443.4	443.4
74°	1467.7	1037.8	681.8	552.7	500.7	441.3	415.3	406.0	393.5	394.5	393.5
75°	1180.4	892.1	625.6	510.0	463.2	413.2	387.2	374.7	365.4	365.4	364.3
77.5°	745.3	677.6	503.8	406.0	370.6	340.4	322.7	306.0	306.0	305.0	303.9
80°	563.1	539.2	392.4	307.1	284.2	261.3	249.8	242.5	242.5	245.7	244.6
82.5°	386.2	406.0	275.8	214.4	203.0	186.3	184.2	185.3	182.2	178.0	177.0
85°	282.1	305.0	186.3	135.3	123.9	113.5	121.8	125.9	120.7	111.4	107.2
87.5°	108.3	199.9	99.9	56.2	52.0	44.8	52.0	54.1	58.3	45.8	46.8
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)