

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: P319809

Luminaire Tested: **GLEON-SA5C-827-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P319809  
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-SA5C-827-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 25990 lumens  
Efficiency: N/A  
Efficacy: 93.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

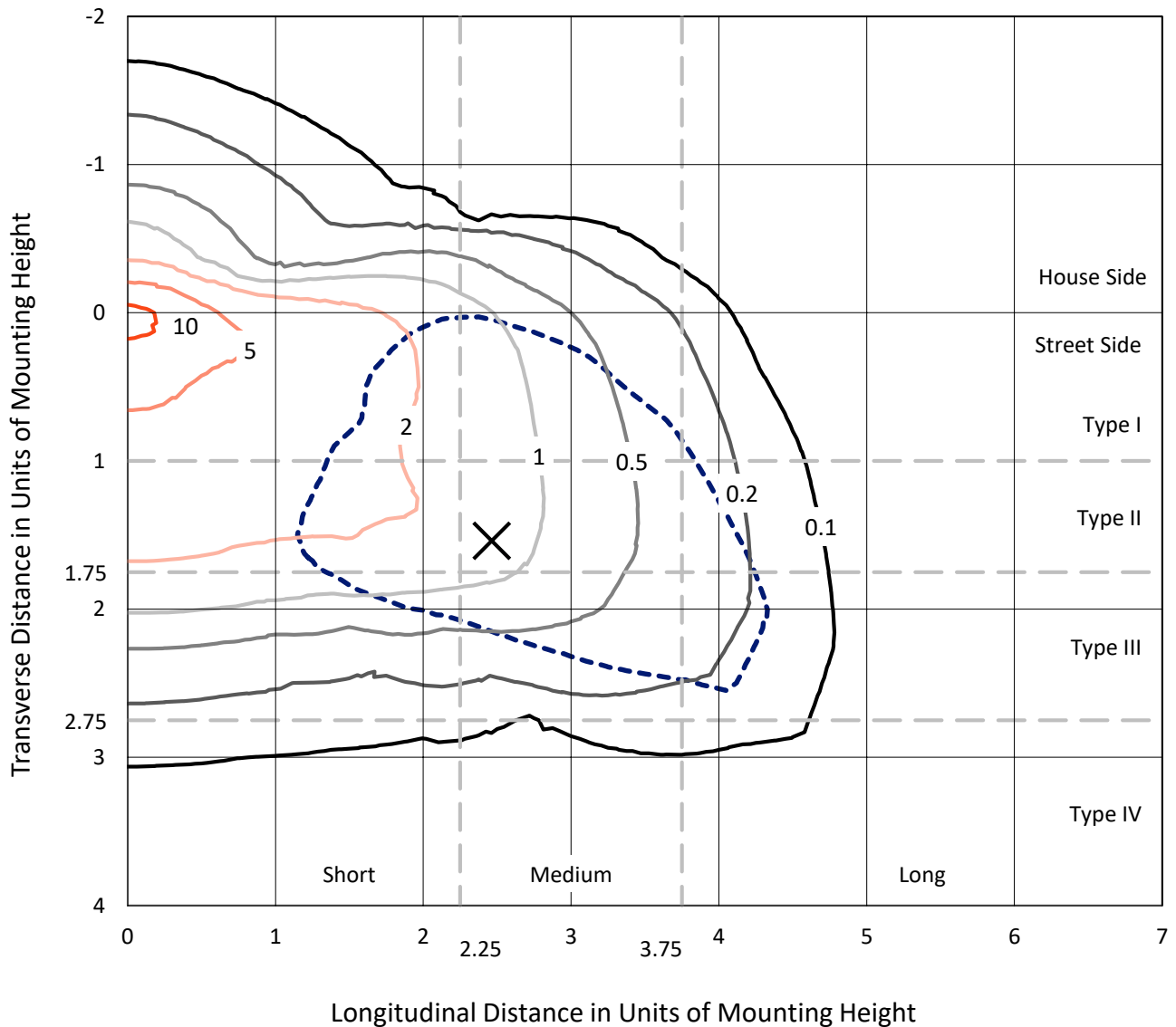
Input Watts (W): 279  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

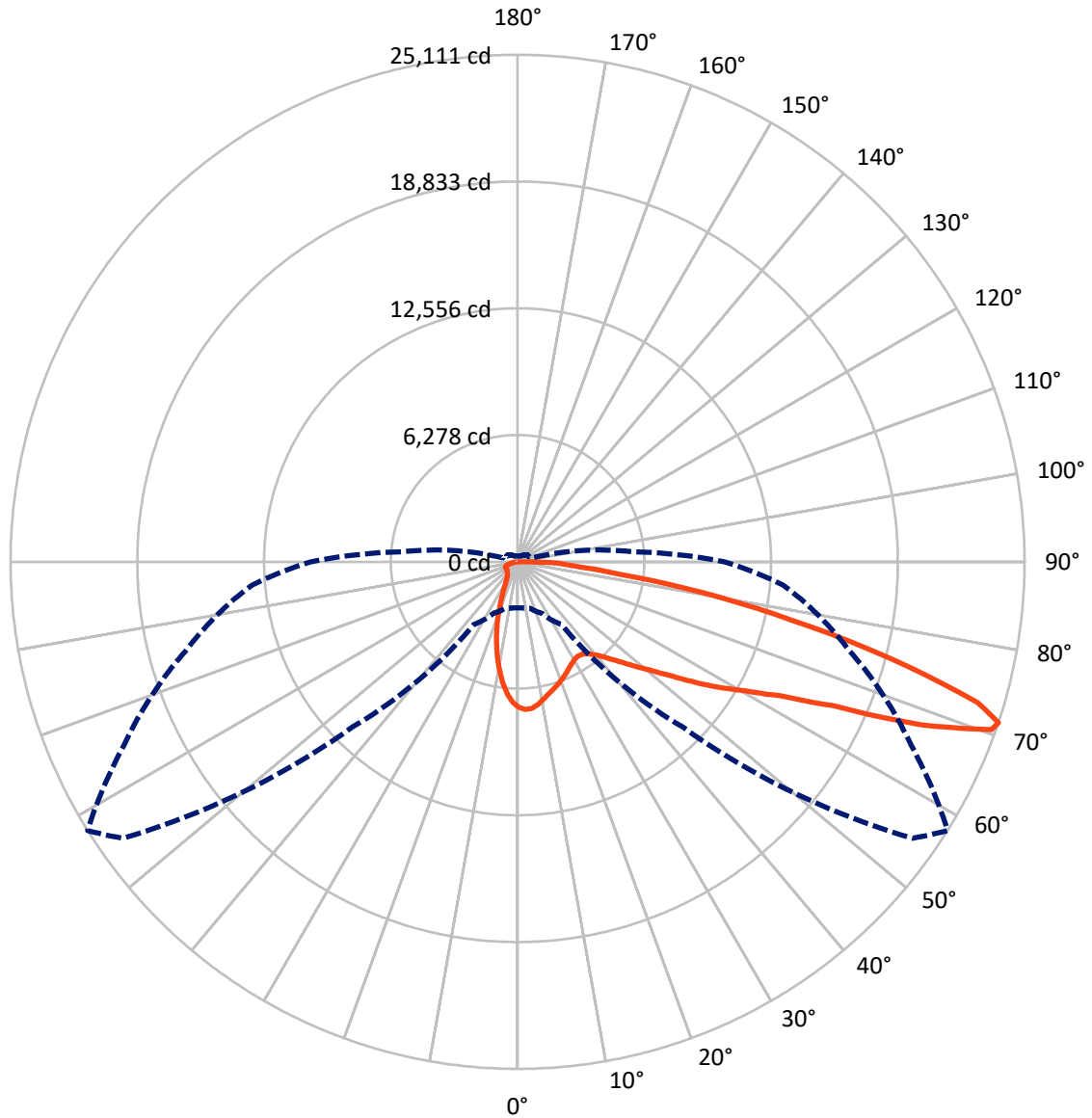
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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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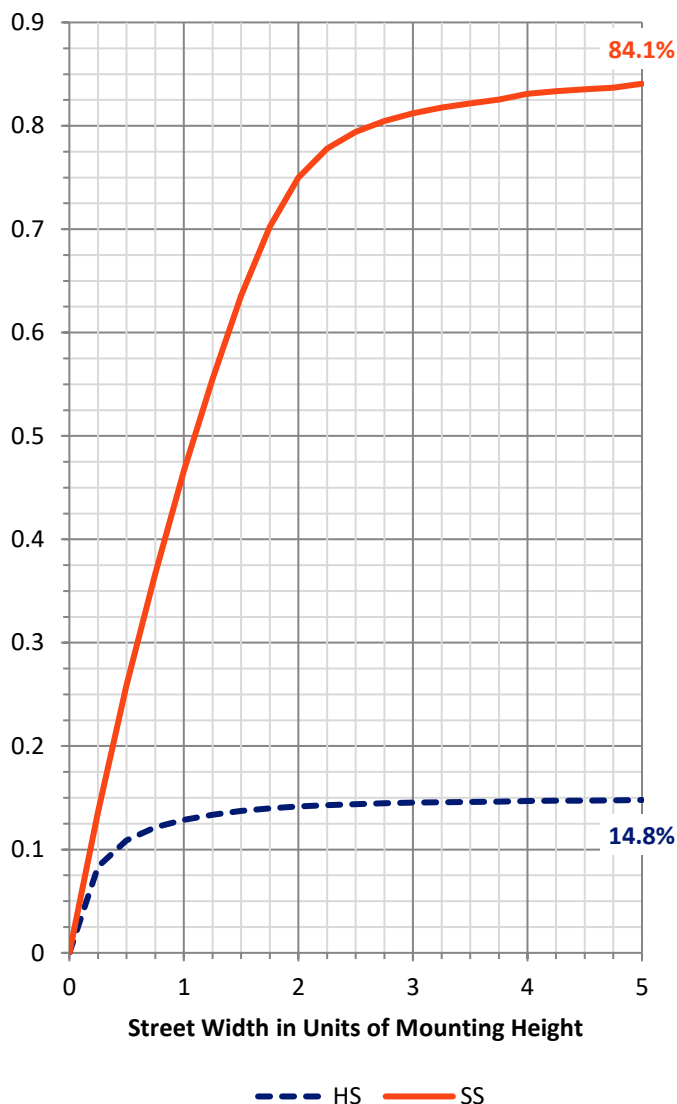
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3885.7	0.0	3885.7
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	22104.3	0.0	22104.3
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	25990.0	0.0	25990.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	621.2	2.4
10°-20°	1381.4	5.3
20°-30°	1755.6	6.8
30°-40°	2236.3	8.6
40°-50°	3171.1	12.2
50°-60°	4907.4	18.9
60°-70°	6680.9	25.7
70°-80°	4456.9	17.1
80°-90°	779.2	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°	25990.0	100.0
0°-180°	25990.0	100.0

**Coefficient of Utilization**

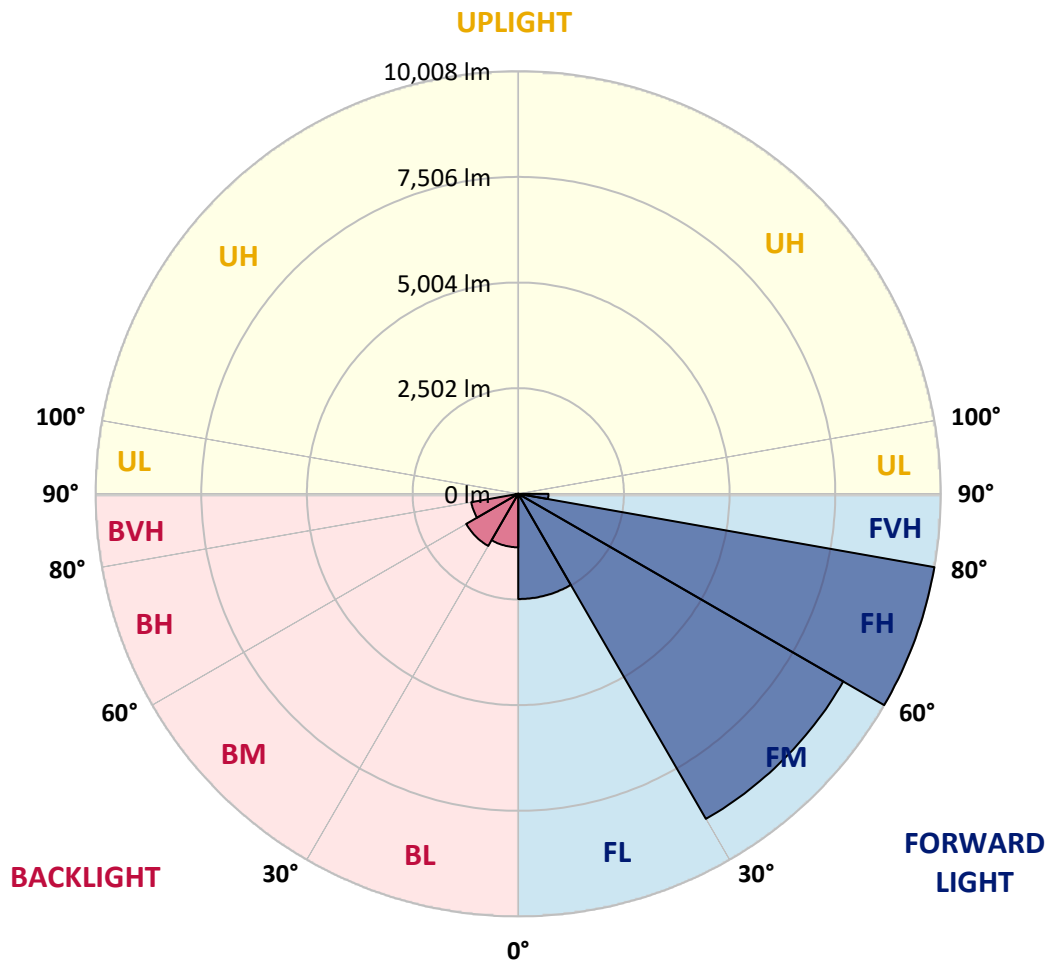


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2491.6	9.6			
FM (30°-60°)	8889.8	34.2			
FH (60°-80°)	10008.4	38.5			G4/12000
FVH (80°-90°)	714.5	2.7			G4/750
BL (0°-30°)	1266.6	4.9	B3/2500		
BM (30°-60°)	1425.0	5.5	B2/2500		
BH (60°-80°)	1129.3	4.3	B3/2500		G3/2500
BVH (80°-90°)	64.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	7201.0	7201.0	7201.0	7201.0	7201.0	7201.0	7201.0	7201.0	7201.0	7201.0	7201.0
2.5°	7392.0	7382.0	7385.7	7378.4	7361.2	7344.0	7318.7	7323.2	7287.9	7235.4	7170.2
5°	7252.6	7248.9	7276.1	7291.5	7304.2	7294.2	7287.0	7296.0	7244.4	7172.0	7058.8
7.5°	6960.2	6920.3	6954.7	7006.3	7055.2	7092.3	7141.2	7147.6	7115.0	7038.9	6890.4
10°	6544.6	6506.6	6557.3	6637.9	6735.6	6824.4	6923.0	6941.1	6947.5	6878.7	6698.5
12.5°	6113.7	6084.7	6135.4	6248.6	6410.6	6547.3	6704.8	6732.0	6788.1	6742.0	6521.1
15°	5728.0	5717.1	5778.7	5890.1	6076.6	6285.7	6512.9	6562.7	6657.8	6642.4	6382.6
17.5°	5394.8	5392.1	5439.2	5556.0	5762.4	6026.8	6321.9	6406.1	6547.3	6565.4	6268.5
20°	5146.8	5141.3	5173.9	5259.9	5472.7	5772.4	6115.5	6231.4	6435.1	6498.4	6150.8
22.5°	5013.7	5012.8	5013.7	5054.4	5228.3	5507.1	5914.5	6055.7	6325.5	6445.0	6020.4
25°	4991.1	4988.3	4968.4	4963.9	5062.6	5285.3	5715.3	5871.0	6221.4	6407.9	5896.4
27.5°	5049.9	5053.5	5027.3	4984.7	5004.6	5139.5	5542.4	5709.0	6138.1	6400.7	5810.4
30°	5172.1	5170.3	5147.7	5103.3	5064.4	5085.2	5419.3	5585.9	6082.0	6432.3	5751.5
32.5°	5307.0	5317.0	5312.5	5288.0	5230.1	5146.8	5382.2	5545.1	6065.7	6508.4	5726.2
35°	5469.1	5479.9	5512.5	5531.5	5463.6	5329.7	5461.8	5603.1	6112.8	6651.4	5766.9
37.5°	5623.0	5651.0	5742.5	5823.1	5765.1	5615.7	5673.7	5774.2	6258.5	6876.9	5876.5
40°	5800.4	5824.9	5974.2	6145.4	6136.3	5981.5	6015.0	6082.0	6515.6	7200.1	6074.7
42.5°	5975.2	6024.0	6240.4	6483.0	6552.8	6416.0	6469.5	6504.8	6877.8	7628.3	6420.6
45°	6207.8	6260.3	6560.9	6853.3	7016.3	6939.3	7024.4	7038.0	7333.1	8211.3	6923.0
47.5°	6560.0	6619.7	6970.1	7277.0	7526.0	7534.1	7674.5	7669.0	7901.7	8878.5	7555.9
50°	7108.6	7194.6	7481.6	7768.6	8071.0	8239.4	8426.8	8400.5	8583.4	9589.2	8284.6
52.5°	7827.5	7867.3	8080.0	8291.9	8667.6	9045.1	9314.0	9290.5	9356.5	10319.8	9112.1
55°	8572.5	8602.4	8690.2	8806.1	9311.3	9926.9	10495.5	10458.3	10290.8	11078.5	9929.6
57.5°	9242.5	9303.1	9363.8	9411.8	9959.5	10848.5	11704.1	11706.8	11304.8	11896.9	10774.3
60°	9346.6	9400.0	9801.1	10179.5	11068.5	12078.0	12997.8	12970.6	12354.1	12785.0	11715.8
62.5°	8262.0	8382.4	9052.4	10059.1	12136.8	14326.8	14648.2	14614.7	13608.9	13879.6	12812.2
65°	5920.8	6057.5	6866.0	8378.8	11619.0	16804.7	17626.7	17175.9	15319.9	15225.8	14095.9
67.5°	3415.8	3448.4	3798.8	5013.7	8846.9	16934.1	22170.5	21539.5	17977.1	16753.1	14724.2
70°	2525.9	2525.0	2608.2	3085.4	4787.4	13820.7	24331.6	24897.4	20774.5	17255.5	13836.1
71°	2284.1	2286.9	2380.1	2808.3	3791.5	11568.3	23872.6	25111.0	21511.5	17007.5	13193.3
72.5°	1953.7	1962.7	2092.2	2518.6	3189.5	7977.7	21895.3	23829.1	21860.9	16395.5	12187.5
75°	1482.0	1502.8	1682.1	2123.0	2915.2	4045.9	16069.5	19028.2	19420.2	14467.1	9056.0
77.5°	1057.4	1081.0	1283.8	1785.3	2771.2	3049.1	10761.6	13879.6	14291.5	9271.4	4084.8
80°	668.1	696.2	849.2	1420.5	2603.7	2895.2	6762.8	9329.4	7793.1	2966.8	1039.3
82.5°	392.0	413.7	526.9	928.0	2126.6	2788.4	3978.9	5171.2	3032.8	896.3	472.6
85°	227.2	237.2	328.6	591.2	1544.5	2631.8	2923.3	2890.7	1316.3	438.2	223.6
87.5°	105.9	117.7	194.6	308.7	857.3	1907.5	2310.4	1996.2	818.4	205.5	105.0
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°	7201.0	7201.0	7201.0	7201.0	7201.0	7201.0	7201.0	7201.0	7201.0	7201.0	7201.0
2.5°	7138.5	7123.1	7058.8	7001.8	6942.0	6864.2	6778.2	6767.3	6714.8	6724.8	6706.7
5°	6997.3	6958.3	6803.5	6663.2	6497.5	6349.1	6187.9	6113.7	6006.8	5999.6	5972.4
7.5°	6795.4	6723.0	6483.0	6216.9	5950.7	5697.2	5446.4	5281.7	5113.3	5041.8	5035.4
10°	6568.1	6445.0	6091.9	5698.1	5314.3	4944.0	4585.5	4320.2	4081.2	3968.0	3963.5
12.5°	6352.7	6170.7	5686.4	5150.4	4625.3	4145.5	3653.9	3305.3	3005.7	2905.2	2862.6
15°	6169.8	5913.6	5291.6	4606.3	3969.0	3302.6	2743.1	2376.5	2099.5	2003.5	1985.4
17.5°	5992.4	5662.8	4887.0	4056.8	3286.3	2553.9	1993.5	1721.0	1573.5	1534.5	1533.6
20°	5815.8	5404.8	4464.2	3494.6	2626.4	1910.2	1532.7	1410.5	1360.7	1356.2	1348.9
22.5°	5615.7	5131.4	4019.6	2930.5	2049.7	1501.9	1302.8	1253.9	1247.5	1263.8	1263.8
25°	5428.3	4859.8	3568.8	2378.3	1594.3	1253.0	1163.3	1153.4	1170.6	1199.6	1202.3
27.5°	5253.6	4598.2	3128.8	1887.6	1277.4	1103.6	1066.5	1078.2	1109.0	1142.5	1143.4
30°	5109.7	4351.0	2701.5	1487.5	1079.1	992.2	985.9	1009.4	1042.9	1069.2	1075.5
32.5°	4998.3	4140.1	2288.7	1195.9	949.7	908.9	914.4	934.3	955.1	969.6	979.6
35°	4946.7	3959.0	1907.5	1008.5	867.3	844.7	851.9	862.8	871.8	882.7	890.8
37.5°	4955.8	3818.7	1567.1	891.7	812.1	800.3	800.3	800.3	800.3	805.7	806.6
40°	5040.0	3738.1	1290.1	817.5	775.0	762.3	752.3	743.3	736.0	739.7	737.8
42.5°	5255.4	3730.9	1087.3	770.4	745.1	724.3	704.3	691.7	682.6	686.2	688.0
45°	5621.2	3821.4	950.6	736.9	717.0	685.3	660.0	646.4	640.1	651.8	653.6
47.5°	6094.7	4018.7	867.3	712.5	690.8	649.1	622.0	609.3	611.1	628.3	632.8
50°	6704.8	4339.2	827.5	697.1	672.7	618.3	590.3	579.4	584.8	609.3	614.7
52.5°	7374.8	4800.9	832.0	692.6	660.9	595.7	565.8	553.2	562.2	584.8	589.4
55°	8147.9	5355.9	907.1	698.9	643.7	581.2	545.9	524.2	531.4	552.2	555.9
57.5°	9007.1	5991.5	1058.3	697.1	622.0	567.6	525.1	492.5	497.9	510.6	514.2
60°	9901.6	6759.2	1292.8	702.5	612.0	551.3	497.0	456.3	454.5	465.3	467.1
62.5°	10975.3	7647.3	1560.8	706.2	618.3	530.5	459.9	420.1	414.6	417.4	419.2
65°	12081.6	8290.1	1460.3	691.7	638.3	513.3	427.3	384.8	374.8	373.0	373.9
67.5°	12116.0	7601.1	1023.9	662.7	646.4	504.3	402.9	354.9	338.6	332.3	331.3
70°	10865.7	6175.2	797.6	631.9	613.8	489.8	380.2	330.4	306.0	296.0	295.1
71°	10255.5	5684.5	755.9	616.5	589.4	475.3	370.3	319.6	294.2	283.4	281.6
72.5°	9298.6	5096.1	705.2	592.1	542.3	438.2	351.3	304.2	277.9	265.3	262.5
75°	6673.2	3332.5	605.7	527.8	449.0	349.5	307.8	273.4	250.8	235.4	233.6
77.5°	2571.1	1326.3	458.1	439.1	344.0	273.4	253.5	236.3	220.0	204.6	203.7
80°	794.9	593.0	334.1	330.4	249.0	203.7	197.4	192.8	186.5	170.2	166.6
82.5°	424.6	340.4	230.0	213.7	163.0	135.8	143.0	144.9	145.8	128.6	126.7
85°	202.8	180.2	129.5	121.3	95.1	76.0	87.8	95.1	96.0	78.8	73.3
87.5°	96.9	94.2	60.7	46.2	35.3	25.3	30.8	38.0	41.6	29.9	26.3
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)