

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: P383501

Luminaire Tested: **GLEON-SA8A-735-U-SL2**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383501  
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-SA8A-735-U-SL2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 615mA 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: 34084.4 lumens  
Efficiency: N/A  
Efficacy: 132.6 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

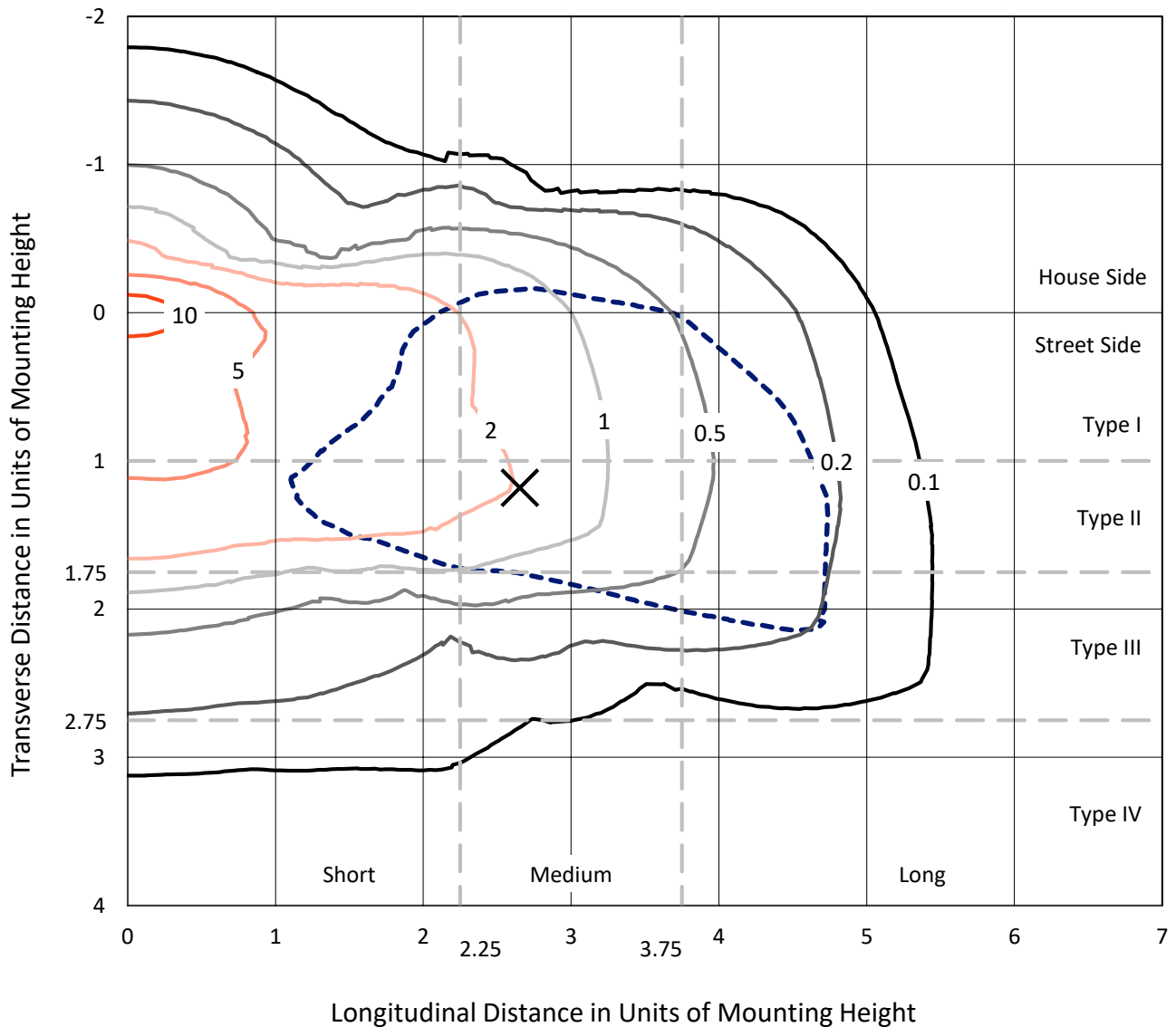
Input Watts (W): 257  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

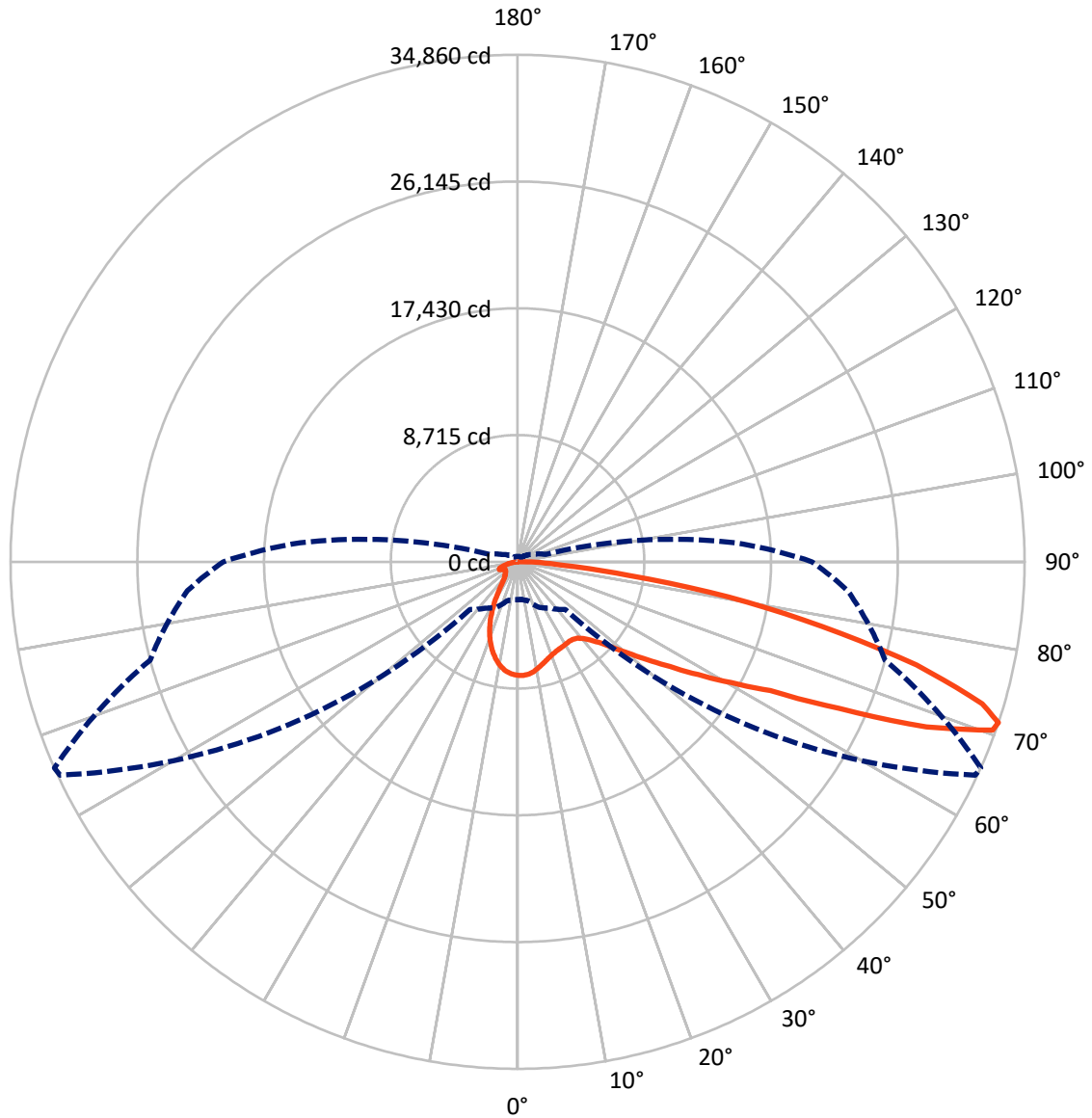
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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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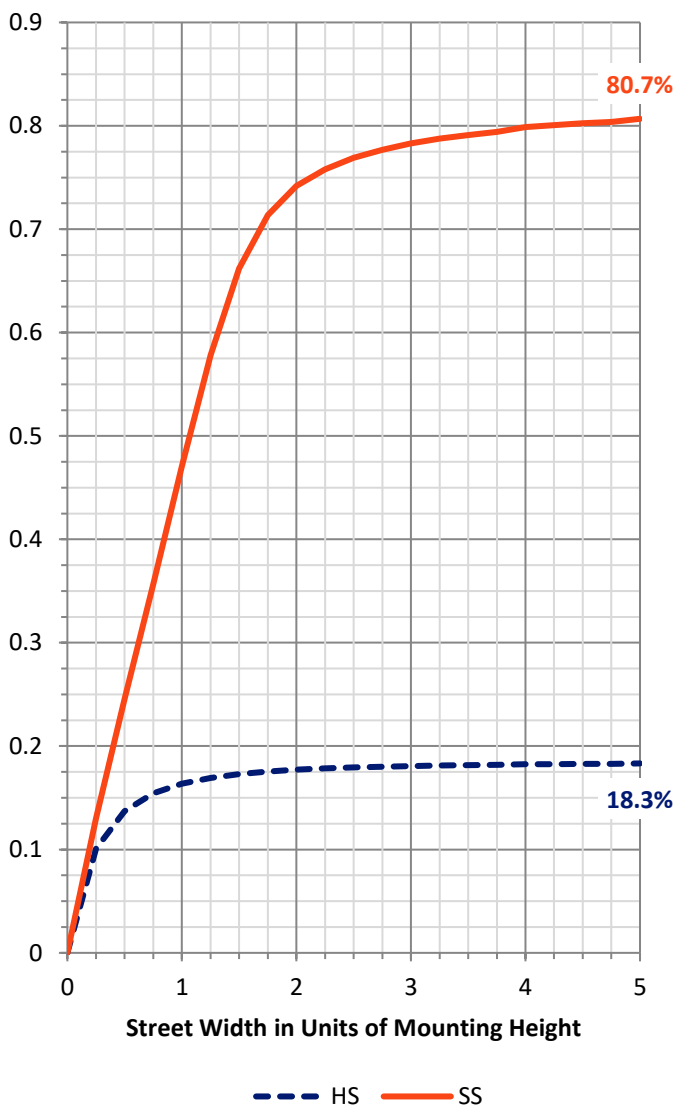
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6316.8	0.0	6316.8
	% Fixture	18.5	0.0	18.5
<b>Street Side</b>	Lumens	27767.6	0.0	27767.6
	% Fixture	81.5	0.0	81.5
<b>Total</b>	Lumens	34084.4	0.0	34084.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	687.3	2.0
10°-20°	1648.4	4.8
20°-30°	2214.3	6.5
30°-40°	2912.8	8.5
40°-50°	4237.4	12.4
50°-60°	6619.3	19.4
60°-70°	8291.7	24.3
70°-80°	6324.7	18.6
80°-90°	1148.5	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°	34084.4	100.0
0°-180°	34084.4	100.0

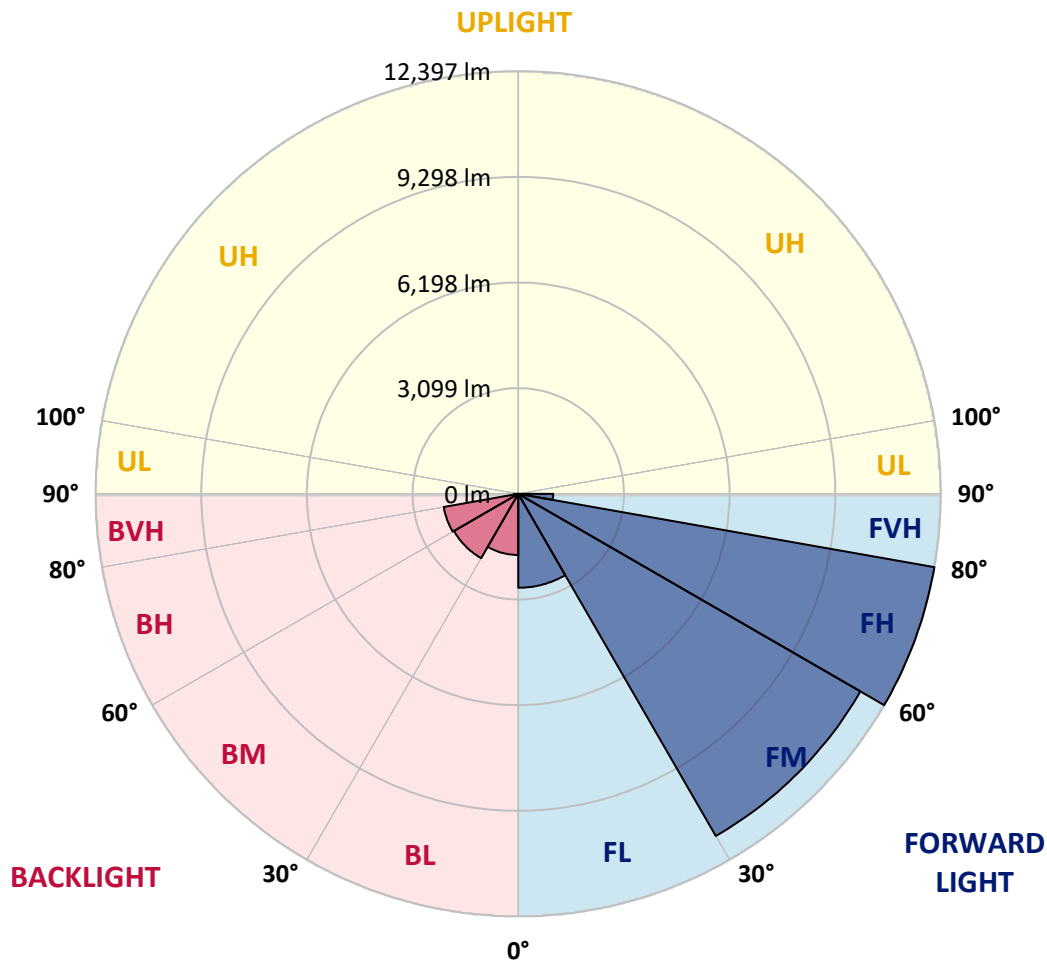


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2756.2	8.1			
FM (30°-60°)	11590.4	34.0			
FH (60°-80°)	12396.9	36.4			G5
FVH (80°-90°)	1024.2	3.0			G5
BL (0°-30°)	1793.8	5.3	B3/2500		
BM (30°-60°)	2179.1	6.4	B2/2500		
BH (60°-80°)	2219.6	6.5	B3/2500		G3/2500
BVH (80°-90°)	124.3	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7808.0	7808.0	7808.0	7808.0	7808.0	7808.0	7808.0	7808.0	7808.0	7808.0	7808.0
2.5°	7663.3	7651.5	7686.9	7723.4	7737.4	7761.0	7796.3	7816.3	7815.1	7818.7	7806.9
5°	7154.9	7139.7	7210.3	7267.9	7378.5	7503.2	7655.1	7763.3	7765.8	7826.9	7843.4
7.5°	6673.6	6663.1	6744.2	6837.2	6965.5	7156.1	7402.1	7635.1	7649.2	7815.1	7872.8
10°	6287.7	6285.3	6364.1	6465.3	6614.8	6827.8	7110.2	7451.5	7472.7	7758.7	7877.5
12.5°	5986.4	5991.1	6059.3	6174.7	6332.4	6554.7	6860.8	7245.6	7279.7	7669.2	7850.4
15°	5764.0	5782.8	5838.1	5954.6	6109.9	6335.9	6650.1	7054.9	7106.7	7569.2	7835.2
17.5°	5636.9	5658.0	5696.9	5793.4	5939.4	6157.1	6454.8	6898.4	6945.5	7492.7	7836.4
20°	5599.3	5616.9	5639.2	5698.1	5821.6	6019.4	6300.6	6757.2	6807.7	7431.5	7848.1
22.5°	5673.4	5686.3	5688.7	5683.9	5759.3	5920.5	6188.8	6653.7	6707.8	7391.5	7856.3
25°	5832.2	5849.8	5836.9	5793.4	5768.7	5867.5	6131.2	6585.4	6639.5	7362.1	7839.8
27.5°	6071.1	6073.5	6062.9	6006.4	5889.9	5873.4	6113.5	6545.3	6597.1	7327.9	7805.7
30°	6395.9	6411.2	6392.4	6315.9	6125.2	5967.6	6134.7	6506.5	6553.6	7284.4	7750.4
32.5°	6776.0	6813.7	6812.5	6732.5	6459.4	6178.2	6221.7	6483.0	6519.4	7238.5	7683.3
35°	7170.2	7222.0	7318.5	7284.4	6946.6	6511.2	6388.8	6520.6	6545.3	7232.6	7636.3
37.5°	7579.8	7631.5	7830.4	7922.3	7526.8	6987.8	6652.5	6653.7	6665.4	7304.4	7632.7
40°	8008.1	8063.5	8362.3	8601.3	8278.8	7591.6	7077.2	6931.4	6918.4	7480.9	7702.1
42.5°	8608.3	8657.7	9016.6	9321.4	9113.1	8364.7	7664.5	7359.7	7332.7	7826.9	7924.6
45°	9367.4	9409.7	9791.0	10117.0	10009.9	9247.3	8402.4	7949.3	7944.6	8403.5	8375.3
47.5°	10269.9	10302.9	10645.4	10960.7	10999.5	10262.9	9329.6	8858.9	8782.4	9194.4	9073.2
50°	11210.2	11246.7	11479.7	11818.6	12107.0	11622.1	10522.9	9973.4	9871.1	10238.2	10061.6
52.5°	11832.7	11881.0	12083.4	12512.9	13352.0	13111.9	11934.0	11324.4	11169.0	11503.2	11367.9
55°	11555.0	11663.3	11972.8	12661.2	14347.6	15387.9	13674.5	12900.1	12724.8	13002.4	12922.4
57.5°	10292.3	10440.6	10863.1	11925.7	14487.6	17393.1	16305.7	14755.9	14632.4	14552.4	14588.8
60°	7984.6	8127.0	8650.6	10035.7	13512.0	18857.0	20265.7	17043.6	16864.7	16108.0	16141.0
62.5°	5651.0	5579.2	5938.2	6951.4	10979.6	19028.9	24771.6	20103.3	19514.9	17750.8	17606.2
65°	4309.4	4292.9	4454.2	4776.6	6650.1	16973.0	27456.0	25245.9	24326.8	19683.1	19341.9
67.5°	3541.0	3511.6	3670.5	4140.0	4282.4	10950.2	27514.7	31212.3	30309.7	22088.6	21349.5
70°	2911.4	2878.5	3026.7	3632.8	3957.6	5553.3	23157.1	34706.2	34657.9	25134.1	22865.2
71°	2610.1	2586.6	2764.3	3437.4	3888.2	4628.4	19993.8	34715.6	34860.4	26165.0	22775.8
72.5°	2125.3	2133.5	2321.8	3059.7	3836.4	4087.1	14694.7	33097.5	33403.5	27147.6	21962.6
75°	1412.1	1419.2	1666.4	2353.6	3719.9	3998.8	8076.4	27772.5	28335.0	26559.3	20040.9
77.5°	948.5	946.2	1114.4	1614.6	3240.9	3998.8	4735.4	20771.7	21389.5	21133.0	15450.2
80°	653.1	648.5	767.3	1114.4	2453.6	4047.0	3661.0	14557.0	14744.2	11412.6	6279.4
82.5°	400.1	403.6	501.4	787.3	1669.9	3642.2	3456.2	7937.5	7733.9	3200.9	1568.6
85°	229.4	228.3	320.1	533.1	1072.0	3073.8	3370.3	3416.3	3133.8	963.8	567.2
87.5°	82.3	88.2	171.8	295.4	614.3	2140.6	2859.7	1776.9	1601.6	435.4	256.5
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°	7808.0	7808.0	7808.0	7808.0	7808.0	7808.0	7808.0	7808.0	7808.0	7808.0	7808.0
2.5°	7798.6	7805.7	7797.5	7750.4	7710.4	7645.7	7609.2	7558.6	7543.3	7536.2	7555.0
5°	7828.1	7830.4	7761.0	7637.5	7498.6	7335.0	7217.4	7072.6	7004.3	6974.9	6993.7
7.5°	7855.2	7844.6	7692.7	7456.2	7199.7	6914.9	6661.9	6430.0	6294.7	6239.4	6244.1
10°	7858.7	7813.9	7570.3	7204.4	6806.6	6388.8	6000.5	5642.8	5416.9	5269.7	5314.5
12.5°	7822.2	7746.8	7390.3	6878.4	6326.5	5756.9	5232.0	4695.5	4373.0	4223.5	4228.2
15°	7794.0	7657.4	7169.1	6494.7	5753.4	4999.1	4282.4	3651.6	3308.0	3155.0	3083.2
17.5°	7770.4	7560.9	6912.5	6062.9	5076.7	4120.0	3258.6	2696.1	2507.7	2463.0	2444.2
20°	7737.4	7458.5	6626.6	5562.7	4305.9	3136.1	2379.5	2101.8	2103.0	2154.8	2161.7
22.5°	7691.6	7342.1	6321.8	5001.4	3478.6	2284.2	1865.2	1785.2	1866.4	1965.3	1982.9
25°	7623.3	7204.4	5982.9	4381.3	2652.5	1755.8	1593.4	1589.9	1688.7	1792.3	1807.6
27.5°	7526.8	7024.3	5606.2	3715.2	1954.7	1492.2	1427.5	1452.2	1525.1	1600.5	1606.4
30°	7397.3	6814.8	5190.9	3012.6	1532.2	1328.6	1321.6	1343.9	1388.7	1441.6	1446.3
32.5°	7255.0	6601.9	4747.3	2332.4	1312.2	1240.4	1247.4	1258.0	1279.2	1300.3	1305.1
35°	7125.5	6384.2	4292.9	1772.3	1207.4	1182.7	1177.9	1175.6	1177.9	1171.0	1172.1
37.5°	7041.9	6204.1	3819.9	1411.0	1147.4	1132.1	1118.0	1100.3	1080.3	1068.6	1070.9
40°	7011.4	6070.0	3340.9	1219.2	1097.9	1087.4	1060.3	1022.7	999.1	992.0	992.0
42.5°	7093.7	6000.5	2878.5	1122.7	1056.7	1039.1	994.4	950.8	933.2	932.0	930.9
45°	7345.6	6028.8	2438.3	1069.7	1019.1	985.0	926.1	889.6	877.9	880.2	879.1
47.5°	7797.5	6206.4	2061.8	1034.4	981.5	936.8	870.8	841.4	827.3	827.3	828.4
50°	8566.0	6621.9	1761.6	1005.0	949.7	892.0	830.8	794.3	775.5	774.3	774.3
52.5°	9685.1	7365.6	1574.6	980.3	914.4	852.0	790.8	745.0	722.6	717.9	715.5
55°	11087.8	8431.8	1522.8	963.8	867.3	808.5	742.5	696.7	671.9	661.4	660.2
57.5°	12656.5	9728.6	1625.2	943.8	819.0	756.7	689.6	646.0	620.1	607.3	606.1
60°	14244.0	11144.3	2042.9	915.5	779.1	700.2	635.5	595.4	569.5	555.5	553.1
62.5°	15833.9	12636.5	2896.1	913.2	750.8	646.0	580.2	546.1	521.3	506.0	502.5
65°	17627.3	14269.9	3865.8	975.6	741.4	596.7	523.7	496.6	475.5	461.3	460.1
67.5°	19686.7	16113.9	3772.9	1103.9	773.2	551.9	470.7	449.6	434.2	422.5	421.3
70°	20652.9	15825.6	2345.4	1194.4	817.9	508.3	420.1	404.9	393.0	384.8	381.3
71°	20248.0	15026.6	1966.4	1183.9	813.1	489.5	400.1	388.4	376.5	369.5	366.0
72.5°	19144.2	13703.8	1640.5	1101.5	760.2	455.4	374.2	362.5	351.8	343.6	341.2
75°	17178.9	12238.8	1313.3	880.2	606.1	384.8	328.4	315.4	307.1	302.5	297.7
77.5°	12628.2	8734.2	1015.6	695.5	446.0	314.2	280.1	270.7	262.4	255.3	251.8
80°	4837.8	3383.3	683.8	519.0	327.2	248.4	225.9	221.2	213.0	208.3	208.3
82.5°	1302.7	1010.9	364.8	314.2	218.9	181.2	173.0	170.7	163.6	154.2	155.4
85°	527.2	446.0	204.8	173.0	134.1	107.1	116.5	117.7	109.5	97.7	98.8
87.5°	231.9	189.5	114.1	76.5	58.9	41.2	52.9	52.9	48.3	40.1	36.5
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)