

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: P383363

Luminaire Tested: **GLEON-SA6D-735-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383363  
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-SA6D-735-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 1200mA 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: 43233.1 lumens  
Efficiency: N/A  
Efficacy: 113.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

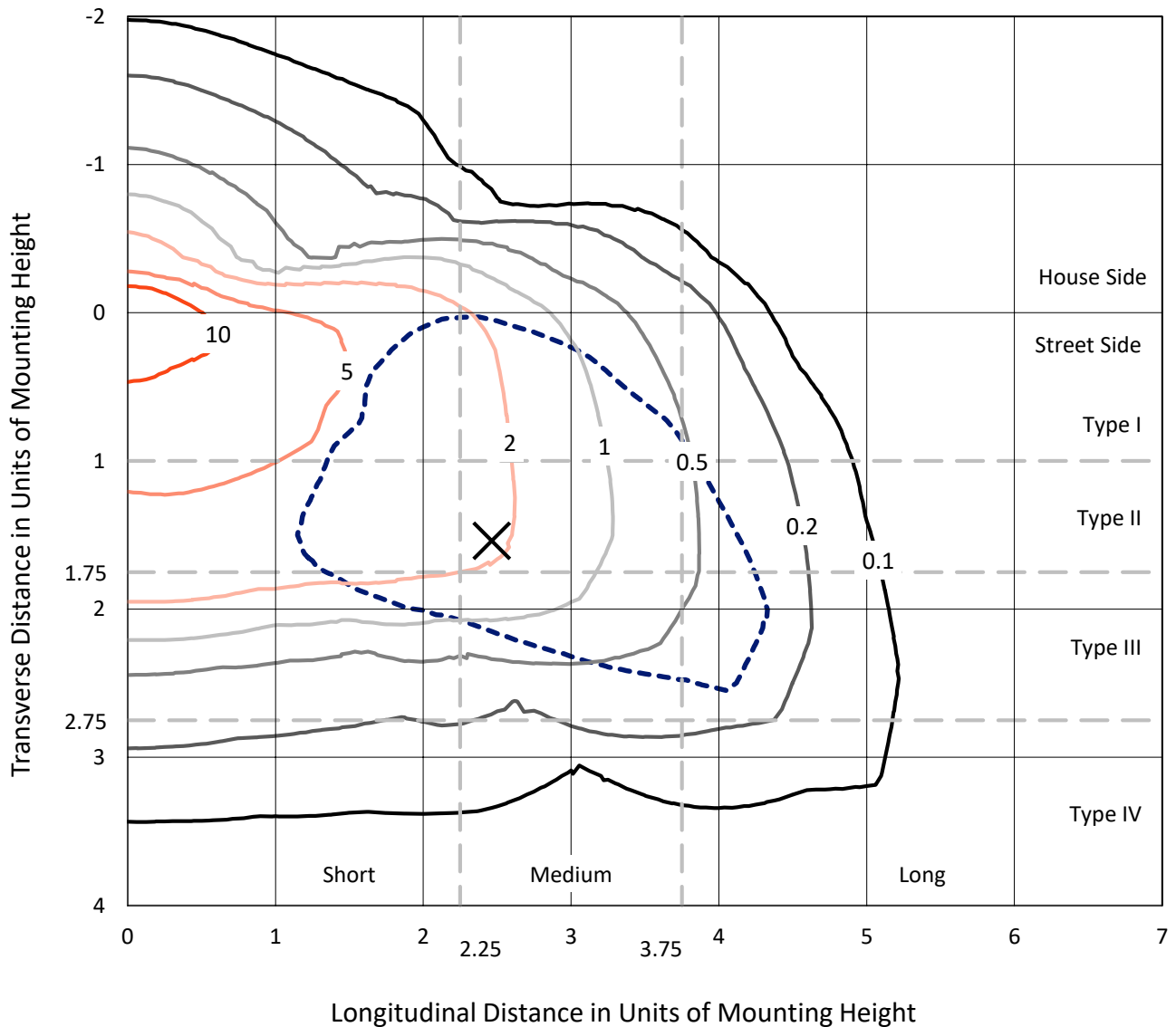
Input Watts (W): 382  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

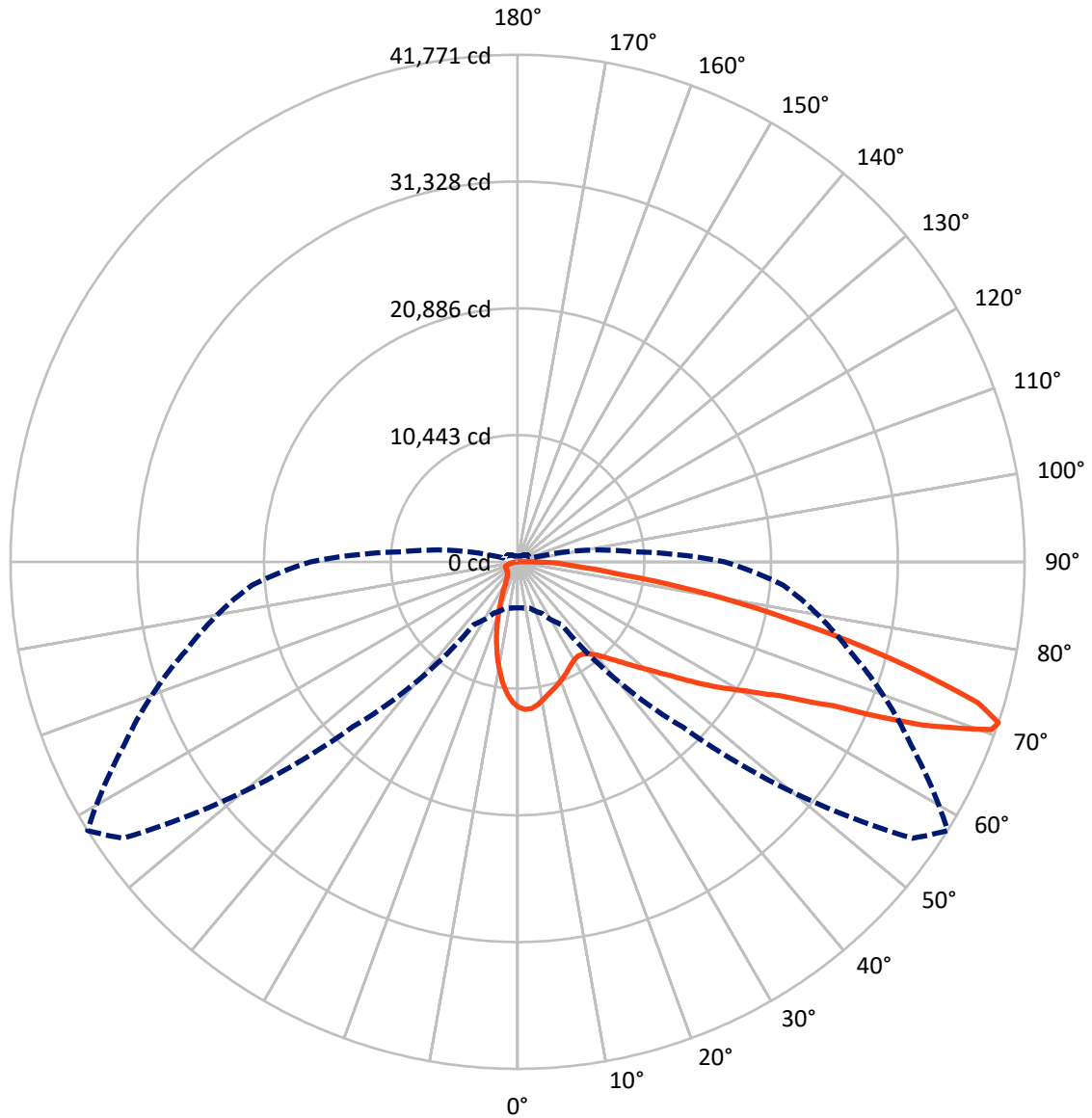
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.2 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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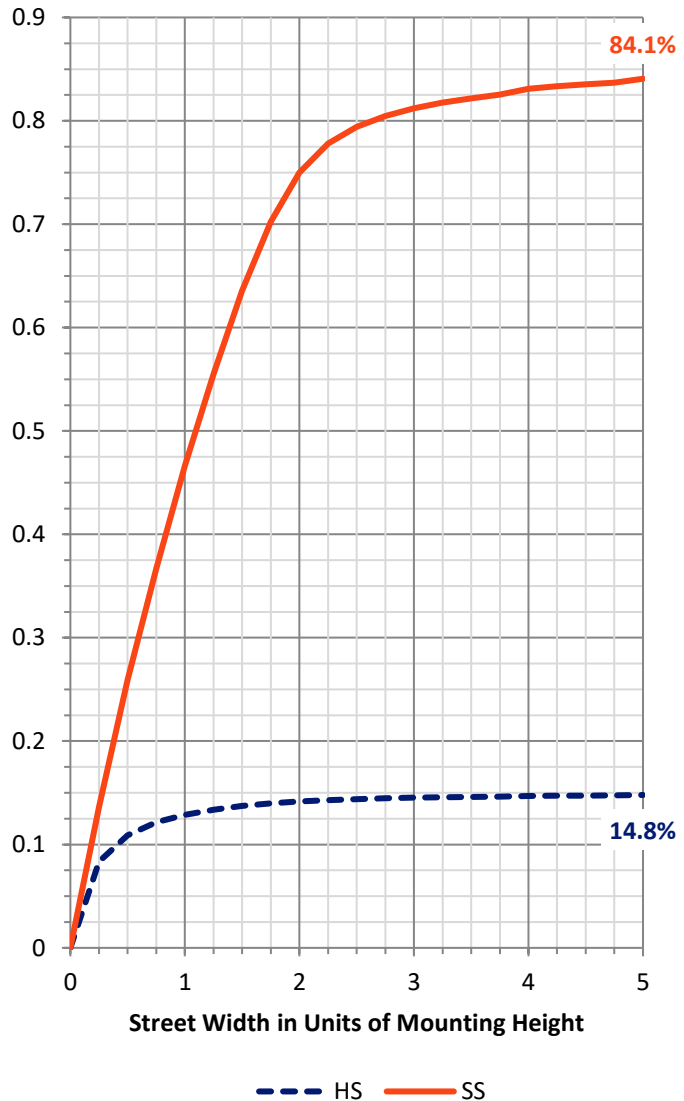
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6463.6	0.0	6463.6
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	36769.5	0.0	36769.5
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	43233.1	0.0	43233.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1033.4	2.4
10°-20°	2297.8	5.3
20°-30°	2920.3	6.8
30°-40°	3719.9	8.6
40°-50°	5275.0	12.2
50°-60°	8163.3	18.9
60°-70°	11113.3	25.7
70°-80°	7413.8	17.1
80°-90°	1296.2	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°	43233.1	100.0
0°-180°	43233.1	100.0

**Coefficient of Utilization**

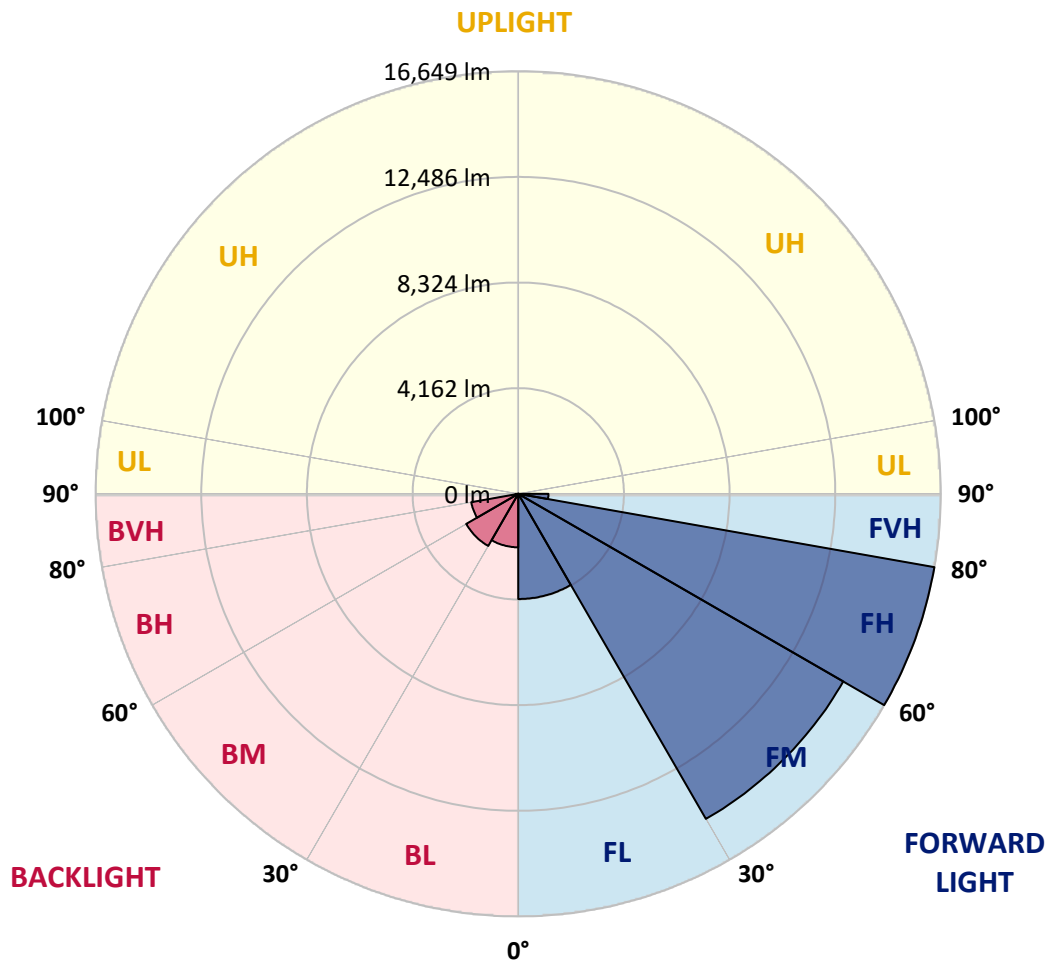


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4144.6	9.6			
FM (30°-60°)	14787.8	34.2			
FH (60°-80°)	16648.5	38.5			G5
FVH (80°-90°)	1188.5	2.7			G5
BL (0°-30°)	2107.0	4.9	B3/2500		
BM (30°-60°)	2370.4	5.5	B2/2500		
BH (60°-80°)	1878.6	4.3	B3/2500		G3/2500
BVH (80°-90°)	107.7	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°	11978.5	11978.5	11978.5	11978.5	11978.5	11978.5	11978.5	11978.5	11978.5	11978.5	11978.5
2.5°	12296.2	12279.7	12285.7	12273.6	12245.0	12216.4	12174.2	12181.8	12123.1	12035.7	11927.3
5°	12064.3	12058.3	12103.5	12129.0	12150.2	12133.6	12121.6	12136.6	12050.8	11930.2	11742.1
7.5°	11577.8	11511.6	11568.8	11654.7	11736.0	11797.8	11879.1	11889.6	11835.4	11708.9	11461.9
10°	10886.6	10823.4	10907.7	11041.7	11204.4	11352.0	11516.2	11546.3	11556.8	11442.4	11142.6
12.5°	10169.8	10121.6	10205.9	10394.2	10663.8	10891.2	11153.2	11198.4	11291.8	11214.9	10847.5
15°	9528.2	9510.2	9612.5	9797.8	10108.0	10456.0	10833.9	10916.7	11074.9	11049.3	10617.0
17.5°	8974.1	8969.5	9047.8	9242.2	9585.4	10025.2	10516.1	10656.3	10891.2	10921.3	10427.3
20°	8561.4	8552.4	8606.6	8749.7	9103.5	9602.0	10172.8	10365.6	10704.4	10809.9	10231.6
22.5°	8340.1	8338.6	8340.1	8407.8	8696.9	9160.8	9838.4	10073.4	10522.2	10721.0	10014.7
25°	8302.4	8297.9	8264.8	8257.2	8421.4	8791.9	9507.2	9766.2	10349.0	10659.2	9808.4
27.5°	8400.3	8406.3	8362.6	8291.9	8325.0	8549.4	9219.5	9496.7	10210.4	10647.2	9665.3
30°	8603.6	8600.6	8563.0	8489.1	8424.4	8459.0	9014.7	9291.8	10117.1	10699.9	9567.4
32.5°	8828.0	8844.6	8837.0	8796.3	8700.0	8561.4	8953.0	9224.1	10090.0	10826.4	9525.3
35°	9097.6	9115.7	9169.9	9201.5	9088.6	8865.6	9085.5	9320.4	10168.3	11064.4	9593.0
37.5°	9353.6	9400.2	9552.4	9686.4	9590.0	9341.6	9437.9	9605.1	10410.8	11439.3	9775.2
40°	9648.7	9689.4	9937.8	10222.5	10207.4	9950.0	10005.7	10117.1	10838.5	11977.0	10105.1
42.5°	9939.4	10020.8	10380.6	10784.2	10900.2	10672.8	10761.6	10820.4	11440.8	12689.3	10680.3
45°	10326.4	10413.8	10913.7	11400.2	11671.3	11543.3	11684.8	11707.4	12198.3	13659.1	11516.2
47.5°	10912.2	11011.6	11594.4	12105.0	12519.1	12532.7	12766.1	12757.1	13144.0	14769.0	12568.8
50°	11824.9	11968.0	12445.3	12922.7	13425.7	13705.8	14017.6	13973.9	14278.1	15951.2	13781.1
52.5°	13020.6	13086.8	13440.7	13793.1	14418.1	15046.1	15493.4	15454.3	15564.2	17166.6	15157.6
55°	14260.0	14309.7	14455.8	14648.6	15488.8	16512.9	17458.7	17396.9	17118.3	18428.5	16517.5
57.5°	15374.4	15475.3	15576.2	15656.1	16567.1	18046.0	19469.2	19473.6	18805.1	19789.9	17922.5
60°	15547.6	15636.5	16303.6	16933.1	18411.9	20091.2	21621.2	21576.0	20550.4	21267.2	19488.7
62.5°	13743.5	13943.8	15058.2	16732.8	20189.0	23832.0	24366.6	24310.9	22637.7	23087.9	21312.4
65°	9849.1	10076.5	11421.2	13937.7	19327.6	27953.8	29321.2	28571.2	25484.0	25327.4	23447.9
67.5°	5682.0	5736.2	6319.1	8340.1	14716.3	28169.2	36879.6	35830.0	29904.0	27867.9	24493.1
70°	4201.7	4200.2	4338.7	5132.4	7963.5	22990.1	40474.3	41415.6	34557.4	28703.8	23015.7
71°	3799.6	3804.1	3959.2	4671.5	6306.9	19243.3	39710.8	41771.1	35783.3	28291.1	21946.4
72.5°	3249.9	3265.0	3480.3	4189.6	5305.5	13270.5	36421.8	39638.6	36364.6	27273.1	20273.4
75°	2465.2	2499.9	2798.1	3531.5	4849.2	6730.2	26730.9	31652.4	32304.5	24065.3	15064.1
77.5°	1758.9	1798.2	2135.5	2969.8	4609.8	5072.1	17901.5	23087.9	23773.2	15422.6	6794.9
80°	1111.4	1158.1	1412.6	2362.9	4331.1	4816.1	11249.6	15519.0	12963.3	4935.1	1728.9
82.5°	652.1	688.2	876.5	1543.6	3537.6	4638.4	6618.7	8602.1	5045.0	1490.9	786.1
85°	378.0	394.6	546.6	983.4	2569.2	4377.8	4862.8	4808.6	2189.7	728.8	372.0
87.5°	176.2	195.8	323.8	513.6	1426.1	3173.0	3843.2	3320.7	1361.4	341.9	174.7
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°	11978.5	11978.5	11978.5	11978.5	11978.5	11978.5	11978.5	11978.5	11978.5	11978.5	11978.5
2.5°	11874.5	11848.9	11742.1	11647.1	11547.7	11418.3	11275.2	11257.1	11169.7	11186.3	11156.2
5°	11639.6	11574.9	11317.4	11083.9	10808.4	10561.3	10293.3	10169.8	9992.1	9980.0	9934.9
7.5°	11303.8	11183.3	10784.2	10341.5	9898.7	9477.1	9059.9	8785.8	8505.7	8386.7	8376.2
10°	10925.7	10721.0	10133.7	9478.6	8840.0	8224.1	7627.7	7186.5	6788.9	6600.7	6593.1
12.5°	10567.4	10264.6	9459.0	8567.4	7694.0	6895.8	6078.1	5498.3	4999.8	4832.7	4761.9
15°	10263.1	9837.0	8802.4	7662.4	6602.2	5493.8	4563.1	3953.2	3492.4	3332.7	3302.6
17.5°	9968.0	9419.8	8129.2	6748.2	5466.7	4248.3	3316.1	2862.8	2617.4	2552.6	2551.1
20°	9674.3	8990.6	7425.9	5813.0	4368.8	3177.6	2549.6	2346.3	2263.5	2255.9	2243.9
22.5°	9341.6	8535.9	6686.5	4874.8	3409.5	2498.4	2167.1	2085.7	2075.2	2102.3	2102.3
25°	9029.8	8084.1	5936.6	3956.2	2652.0	2084.2	1935.2	1918.6	1947.2	1995.4	1999.9
27.5°	8739.1	7648.8	5204.6	3140.0	2125.0	1835.8	1774.0	1793.6	1844.8	1900.5	1902.0
30°	8499.7	7237.7	4493.8	2474.3	1795.1	1650.5	1640.0	1679.1	1734.9	1778.5	1789.1
32.5°	8314.4	6886.7	3807.0	1989.4	1579.7	1512.0	1521.0	1554.2	1588.8	1612.9	1629.5
35°	8228.6	6585.6	3173.0	1677.6	1442.7	1405.1	1417.1	1435.1	1450.2	1468.3	1481.9
37.5°	8243.6	6352.1	2606.8	1483.4	1350.8	1331.3	1331.3	1331.3	1331.3	1340.3	1341.8
40°	8383.7	6218.2	2146.0	1359.9	1289.1	1268.0	1251.4	1236.4	1224.3	1230.4	1227.4
42.5°	8742.1	6206.1	1808.7	1281.6	1239.4	1204.8	1171.6	1150.6	1135.5	1141.5	1144.5
45°	9350.6	6356.7	1581.3	1225.8	1192.8	1140.0	1097.8	1075.3	1064.8	1084.3	1087.3
47.5°	10138.2	6685.0	1442.7	1185.2	1149.1	1079.8	1034.6	1013.5	1016.5	1045.1	1052.6
50°	11153.2	7218.1	1376.5	1159.6	1119.0	1028.6	981.9	963.8	972.8	1013.5	1022.6
52.5°	12267.6	7986.2	1384.0	1152.0	1099.3	990.9	941.2	920.2	935.2	972.8	980.4
55°	13553.7	8909.3	1509.0	1162.6	1070.7	966.9	908.1	871.9	884.0	918.6	924.7
57.5°	14982.8	9966.5	1760.4	1159.6	1034.6	944.2	873.4	819.2	828.2	849.4	855.3
60°	16470.8	11243.6	2150.5	1168.6	1018.0	917.1	826.7	759.0	756.0	774.0	777.1
62.5°	18256.8	12720.9	2596.3	1174.7	1028.6	882.5	765.0	698.8	689.7	694.3	697.3
65°	20097.1	13790.2	2429.1	1150.6	1061.7	853.9	710.8	640.1	623.5	620.5	622.0
67.5°	20154.4	12644.1	1703.2	1102.4	1075.3	838.9	670.2	590.3	563.2	552.7	551.2
70°	18074.6	10272.2	1326.8	1051.2	1021.1	814.7	632.5	549.7	509.0	492.4	490.9
71°	17059.6	9456.0	1257.5	1025.5	980.4	790.6	615.9	531.6	489.4	471.4	468.4
72.5°	15467.8	8477.1	1173.2	984.9	902.1	728.8	584.4	506.0	462.3	441.3	436.7
75°	11100.5	5543.5	1007.5	878.0	746.9	581.3	512.1	454.8	417.1	391.5	388.5
77.5°	4276.9	2206.3	762.0	730.4	572.2	454.8	421.7	393.0	365.9	340.4	338.8
80°	1322.2	986.4	555.7	549.7	414.2	338.8	328.3	320.7	310.2	283.1	277.1
82.5°	706.3	566.3	382.5	355.4	271.1	225.9	237.9	241.0	242.5	213.9	210.8
85°	337.3	299.7	215.4	201.8	158.1	126.5	146.1	158.1	159.7	131.0	121.9
87.5°	161.2	156.6	100.9	76.8	58.7	42.2	51.2	63.3	69.3	49.7	43.7
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)