

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: P383111

Luminaire Tested: **GLEON-SA4C-735-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383111  
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-SA4C-735-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 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: 26580.8 lumens  
Efficiency: N/A  
Efficacy: 118.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

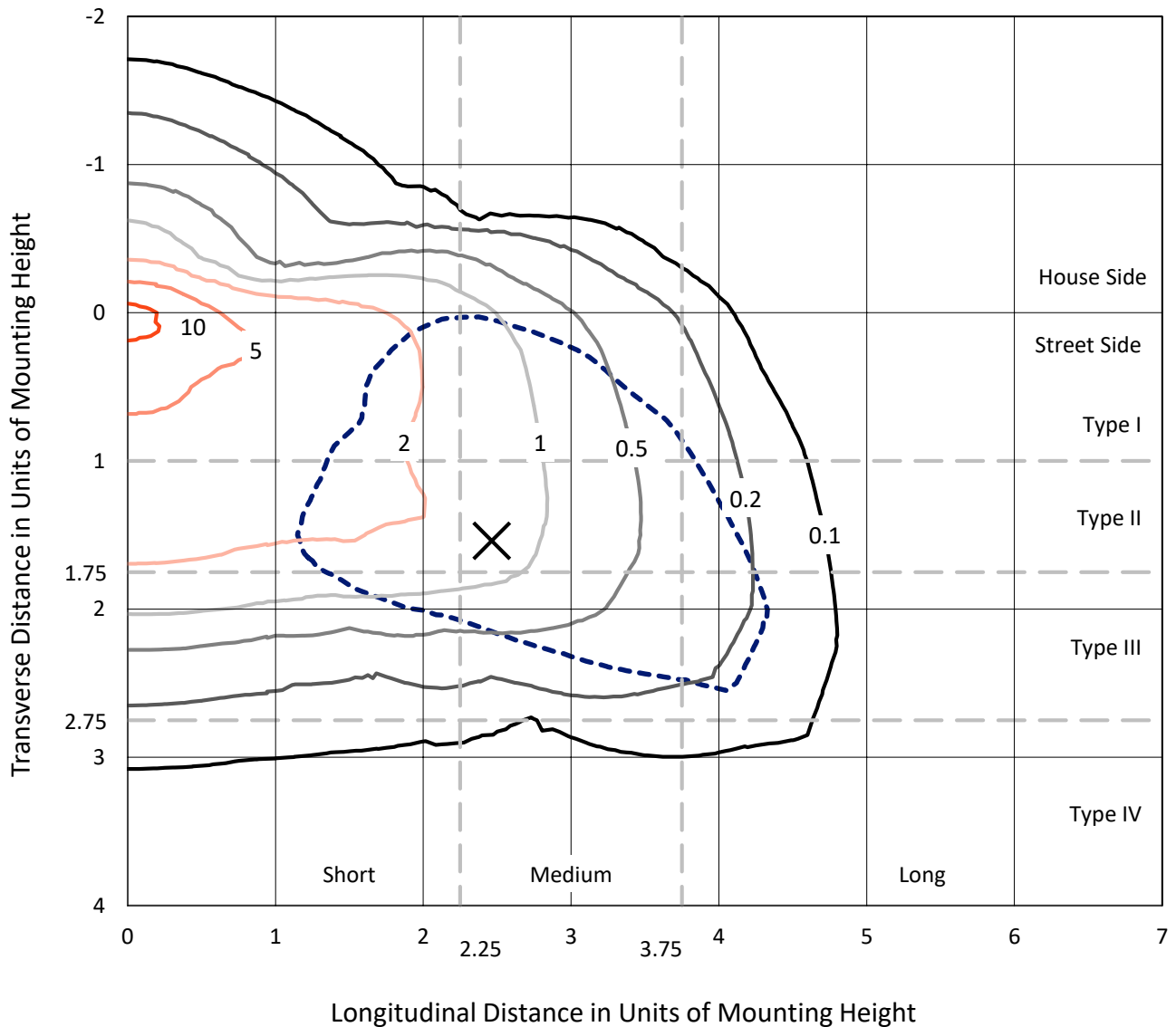
Input Watts (W): 225  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

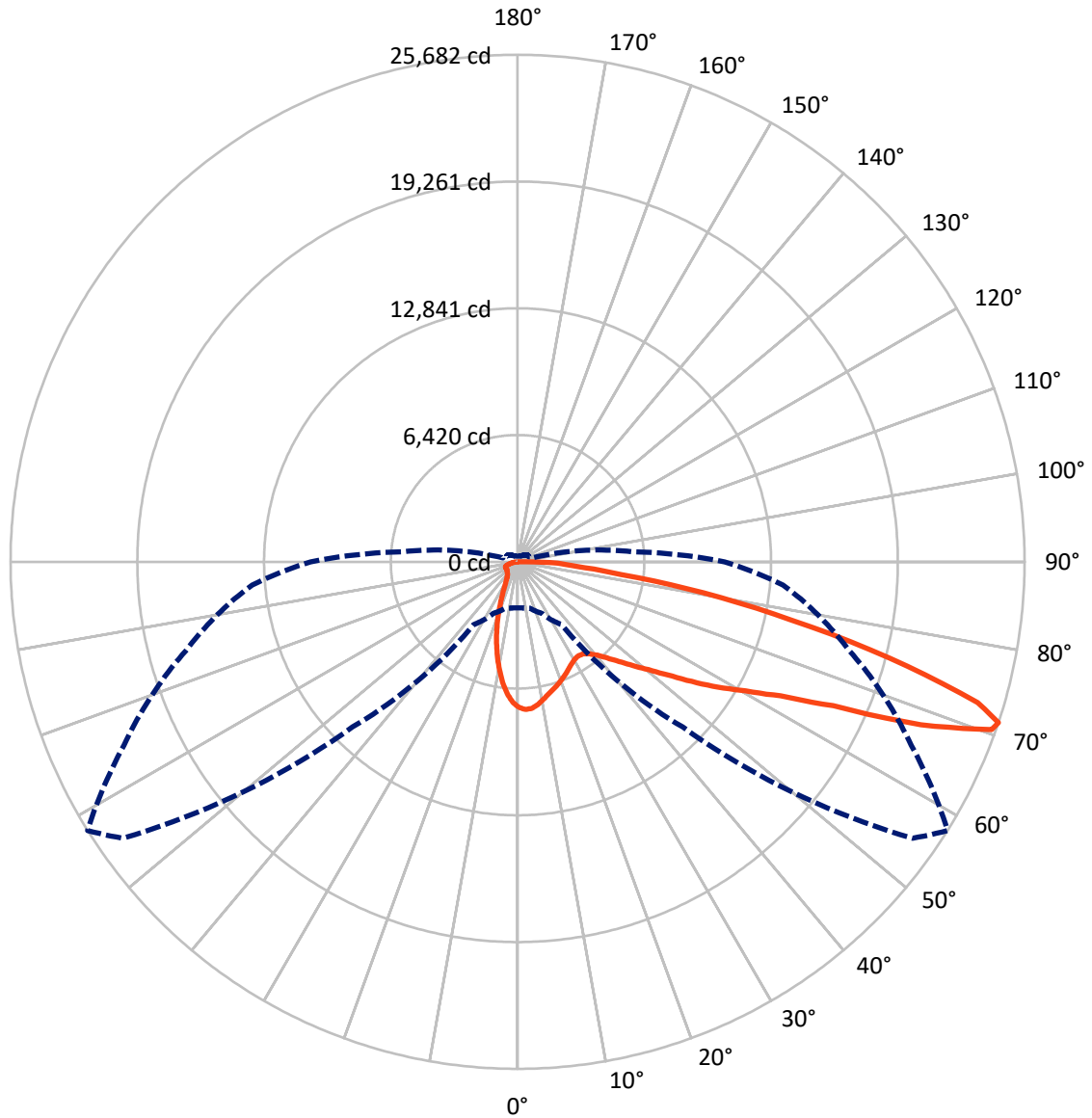
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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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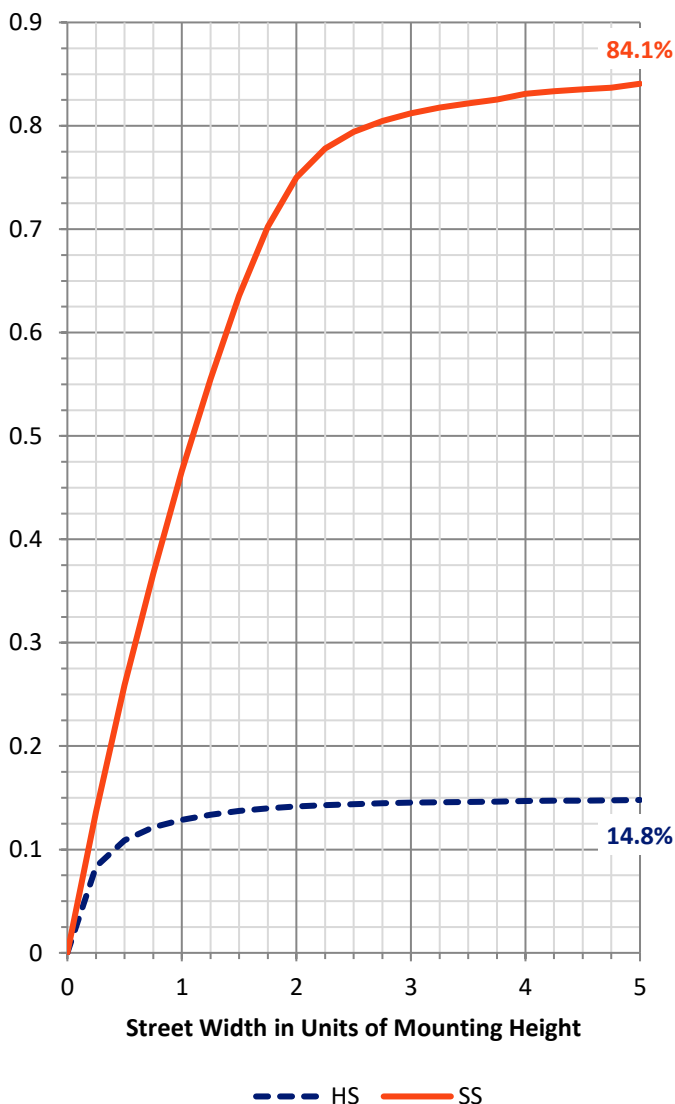
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3974.0	0.0	3974.0
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	22606.8	0.0	22606.8
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	26580.8	0.0	26580.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	635.4	2.4
10°-20°	1412.8	5.3
20°-30°	1795.5	6.8
30°-40°	2287.1	8.6
40°-50°	3243.2	12.2
50°-60°	5019.0	18.9
60°-70°	6832.7	25.7
70°-80°	4558.2	17.1
80°-90°	796.9	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°	26580.8	100.0
0°-180°	26580.8	100.0

**Coefficient of Utilization**

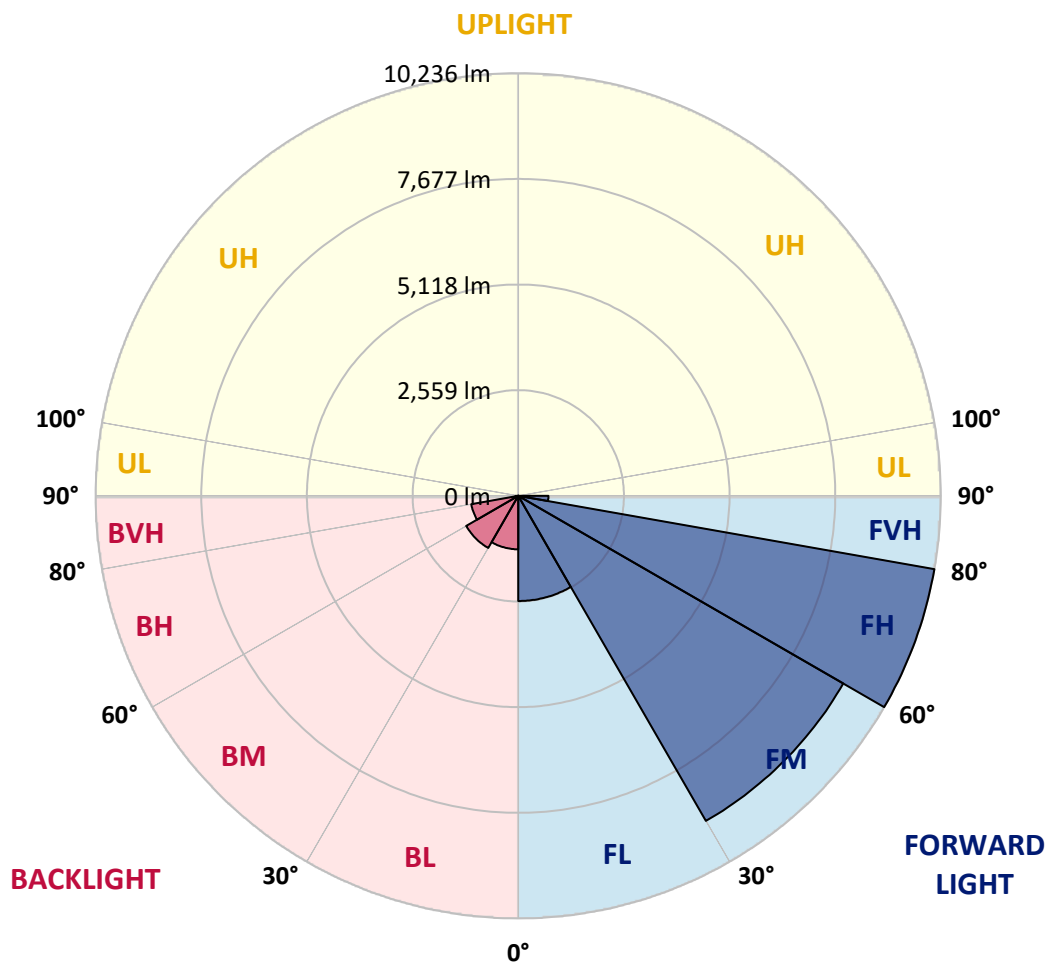


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2548.2	9.6			
FM (30°-60°)	9091.9	34.2			
FH (60°-80°)	10235.9	38.5			G4/12000
FVH (80°-90°)	730.7	2.7			G4/750
BL (0°-30°)	1295.4	4.9	B3/2500		
BM (30°-60°)	1457.4	5.5	B2/2500		
BH (60°-80°)	1155.0	4.3	B3/2500		G3/2500
BVH (80°-90°)	66.2	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°	7364.6	7364.6	7364.6	7364.6	7364.6	7364.6	7364.6	7364.6	7364.6	7364.6	7364.6
2.5°	7560.0	7549.8	7553.5	7546.1	7528.6	7511.0	7485.0	7489.6	7453.5	7399.8	7333.1
5°	7417.4	7413.7	7441.5	7457.2	7470.2	7460.0	7452.7	7461.9	7409.1	7335.0	7219.3
7.5°	7118.3	7077.6	7112.8	7165.6	7215.6	7253.6	7303.5	7310.0	7276.7	7198.9	7047.1
10°	6693.4	6654.5	6706.3	6788.7	6888.7	6979.4	7080.4	7099.0	7105.4	7035.0	6850.8
12.5°	6252.6	6223.0	6274.9	6390.6	6556.3	6696.2	6857.2	6885.1	6942.5	6895.2	6669.3
15°	5858.2	5847.1	5910.0	6023.9	6214.6	6428.5	6660.9	6711.9	6809.1	6793.4	6527.6
17.5°	5517.5	5514.7	5562.8	5682.3	5893.3	6163.8	6465.6	6551.7	6696.2	6714.7	6411.0
20°	5263.8	5258.2	5291.6	5379.5	5597.1	5903.6	6254.5	6373.0	6581.3	6646.1	6290.6
22.5°	5127.7	5126.8	5127.7	5169.3	5347.1	5632.3	6048.9	6193.4	6469.3	6591.5	6157.3
25°	5104.5	5101.7	5081.4	5076.7	5177.6	5405.4	5845.3	6004.5	6362.8	6553.5	6030.5
27.5°	5164.7	5168.4	5141.6	5098.1	5118.4	5256.4	5668.4	5838.8	6277.6	6546.2	5942.4
30°	5289.7	5287.8	5264.7	5219.4	5179.5	5200.8	5542.4	5712.8	6220.2	6578.6	5882.3
32.5°	5427.7	5437.8	5433.3	5408.2	5348.9	5263.8	5504.5	5671.2	6203.5	6656.4	5856.4
35°	5593.4	5604.5	5637.8	5657.3	5587.8	5450.8	5586.0	5730.4	6251.7	6802.6	5898.0
37.5°	5750.8	5779.5	5873.0	5955.4	5896.1	5743.4	5802.6	5905.5	6400.8	7033.2	6010.1
40°	5932.3	5957.2	6110.0	6285.1	6275.7	6117.5	6151.8	6220.2	6663.7	7363.7	6212.9
42.5°	6111.0	6161.0	6382.3	6630.4	6701.7	6561.9	6616.5	6652.6	7034.1	7801.7	6566.5
45°	6349.0	6402.6	6710.0	7009.2	7175.8	7097.1	7184.1	7198.0	7499.8	8398.0	7080.4
47.5°	6709.1	6770.2	7128.6	7442.4	7697.1	7705.4	7848.9	7843.4	8081.3	9080.4	7727.7
50°	7270.2	7358.2	7651.6	7945.2	8254.4	8426.7	8618.3	8591.5	8778.5	9807.1	8473.0
52.5°	8005.3	8046.1	8263.7	8480.3	8864.6	9250.7	9525.7	9501.6	9569.2	10554.4	9319.2
55°	8767.4	8797.9	8887.8	9006.3	9522.9	10152.6	10734.0	10696.0	10524.8	11330.3	10155.4
57.5°	9452.6	9514.6	9576.7	9625.7	10185.9	11095.1	11970.1	11972.9	11561.8	12167.3	11019.2
60°	9559.1	9613.7	10023.8	10410.9	11320.2	12352.5	13293.2	13265.4	12635.0	13075.7	11982.1
62.5°	8449.8	8572.9	9258.1	10287.7	12412.7	14652.5	14981.1	14946.9	13918.3	14195.0	13103.4
65°	6055.4	6195.3	7022.1	8569.2	11883.1	17186.7	18027.4	17566.3	15668.2	15571.8	14416.4
67.5°	3493.4	3526.7	3885.1	5127.7	9047.9	17319.1	22674.5	22029.1	18385.7	17133.9	15058.9
70°	2583.3	2582.3	2667.6	3155.5	4896.2	14134.8	24884.6	25463.3	21246.7	17647.8	14150.6
71°	2336.0	2338.8	2434.2	2872.1	3877.7	11831.2	24415.2	25681.8	22000.5	17394.0	13493.2
72.5°	1998.1	2007.4	2139.8	2575.9	3262.0	8159.1	22393.0	24370.8	22357.9	16768.1	12464.6
75°	1515.7	1537.0	1720.3	2171.3	2981.4	4137.8	16434.8	19460.7	19861.6	14796.0	9261.8
77.5°	1081.4	1105.6	1312.9	1825.9	2834.2	3118.4	11006.2	14195.0	14616.4	9482.2	4177.7
80°	683.3	712.0	868.5	1452.7	2662.9	2961.0	6916.6	9541.5	7970.2	3034.2	1062.9
82.5°	400.9	423.1	538.9	949.1	2175.0	2851.7	4069.4	5288.8	3101.8	916.6	483.3
85°	232.4	242.6	336.1	604.6	1579.6	2691.6	2989.7	2956.5	1346.3	448.2	228.7
87.5°	108.3	120.4	199.1	315.7	876.9	1950.8	2362.9	2041.6	837.0	210.2	107.4
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°	7364.6	7364.6	7364.6	7364.6	7364.6	7364.6	7364.6	7364.6	7364.6	7364.6	7364.6
2.5°	7300.7	7285.0	7219.3	7161.0	7099.9	7020.2	6932.3	6921.1	6867.5	6877.6	6859.1
5°	7156.3	7116.5	6958.2	6814.6	6645.2	6493.4	6328.6	6252.6	6143.4	6136.0	6108.2
7.5°	6949.8	6875.8	6630.4	6358.2	6086.0	5826.7	5570.3	5401.8	5229.5	5156.4	5149.9
10°	6717.5	6591.5	6230.4	5827.7	5435.0	5056.3	4689.7	4418.4	4174.0	4058.3	4053.6
12.5°	6497.1	6311.0	5815.7	5267.4	4730.5	4239.8	3737.0	3380.5	3074.0	2971.3	2927.7
15°	6310.0	6048.0	5411.9	4711.0	4059.1	3377.7	2805.4	2430.5	2147.2	2049.0	2030.5
17.5°	6128.6	5791.5	4998.0	4149.0	3361.0	2612.0	2038.9	1760.2	1609.2	1569.4	1568.4
20°	5948.0	5527.6	4565.6	3574.0	2686.0	1953.6	1567.5	1442.6	1391.6	1387.0	1379.6
22.5°	5743.4	5248.1	4111.0	2997.2	2096.3	1536.1	1332.4	1282.4	1275.9	1292.5	1292.5
25°	5551.7	4970.3	3649.9	2432.4	1630.5	1281.4	1189.8	1179.6	1197.2	1226.8	1229.6
27.5°	5373.1	4702.6	3200.0	1930.5	1306.5	1128.7	1090.7	1102.8	1134.3	1168.5	1169.5
30°	5225.8	4449.9	2762.9	1521.2	1103.7	1014.8	1008.3	1032.3	1066.6	1093.5	1100.0
32.5°	5112.0	4234.2	2340.7	1223.1	971.2	929.6	935.2	955.5	976.8	991.6	1001.8
35°	5059.1	4049.0	1950.8	1031.5	887.0	863.8	871.3	882.4	891.7	902.8	911.1
37.5°	5068.4	3905.5	1602.7	912.0	830.6	818.5	818.5	818.5	818.5	824.0	825.0
40°	5154.5	3823.1	1319.4	836.1	792.6	779.6	769.5	760.1	752.8	756.5	754.6
42.5°	5374.8	3815.6	1112.0	787.9	762.0	740.8	720.4	707.4	698.1	701.8	703.7
45°	5749.0	3908.2	972.2	753.7	733.3	700.9	675.0	661.1	654.6	666.6	668.5
47.5°	6233.2	4110.1	887.0	728.7	706.5	663.9	636.1	623.1	625.0	642.6	647.2
50°	6857.2	4437.9	846.3	712.9	687.9	632.4	603.7	592.6	598.1	623.1	628.7
52.5°	7542.5	4910.1	850.9	708.3	675.9	609.2	578.7	565.7	575.0	598.1	602.8
55°	8333.2	5477.7	927.7	714.8	658.3	594.4	558.3	536.1	543.5	564.8	568.5
57.5°	9211.8	6127.6	1082.4	712.9	636.1	580.5	537.0	503.7	509.3	522.2	526.0
60°	10126.7	6912.8	1322.2	718.5	625.9	563.9	508.3	466.6	464.8	475.9	477.8
62.5°	11224.8	7821.1	1596.3	722.2	632.4	542.6	470.3	429.6	424.0	426.8	428.7
65°	12356.2	8478.5	1493.5	707.4	652.7	525.0	437.0	393.5	383.3	381.5	382.4
67.5°	12391.4	7773.9	1047.2	677.8	661.1	515.7	412.0	362.9	346.3	339.8	338.9
70°	11112.7	6315.6	815.8	646.3	627.8	500.9	388.9	338.0	313.0	302.8	301.8
71°	10488.7	5813.8	773.1	630.6	602.8	486.1	378.7	326.9	300.9	289.8	287.9
72.5°	9510.0	5211.9	721.3	605.5	554.6	448.2	359.3	311.1	284.2	271.3	268.5
75°	6824.9	3408.3	619.4	539.8	459.3	357.4	314.8	279.7	256.5	240.7	238.8
77.5°	2629.6	1356.4	468.5	449.1	351.8	279.7	259.2	241.6	225.0	209.2	208.3
80°	813.0	606.4	341.7	338.0	254.6	208.3	201.9	197.2	190.8	174.1	170.4
82.5°	434.3	348.1	235.2	218.5	166.7	138.9	146.3	148.1	149.0	131.4	129.7
85°	207.4	184.3	132.4	124.1	97.3	77.8	89.8	97.3	98.2	80.6	75.0
87.5°	99.1	96.3	62.0	47.2	36.1	25.9	31.5	38.8	42.6	30.6	26.8
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)