

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: P383488

Luminaire Tested: **GLEON-SA7D-735-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383488  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA7D-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39320.6 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

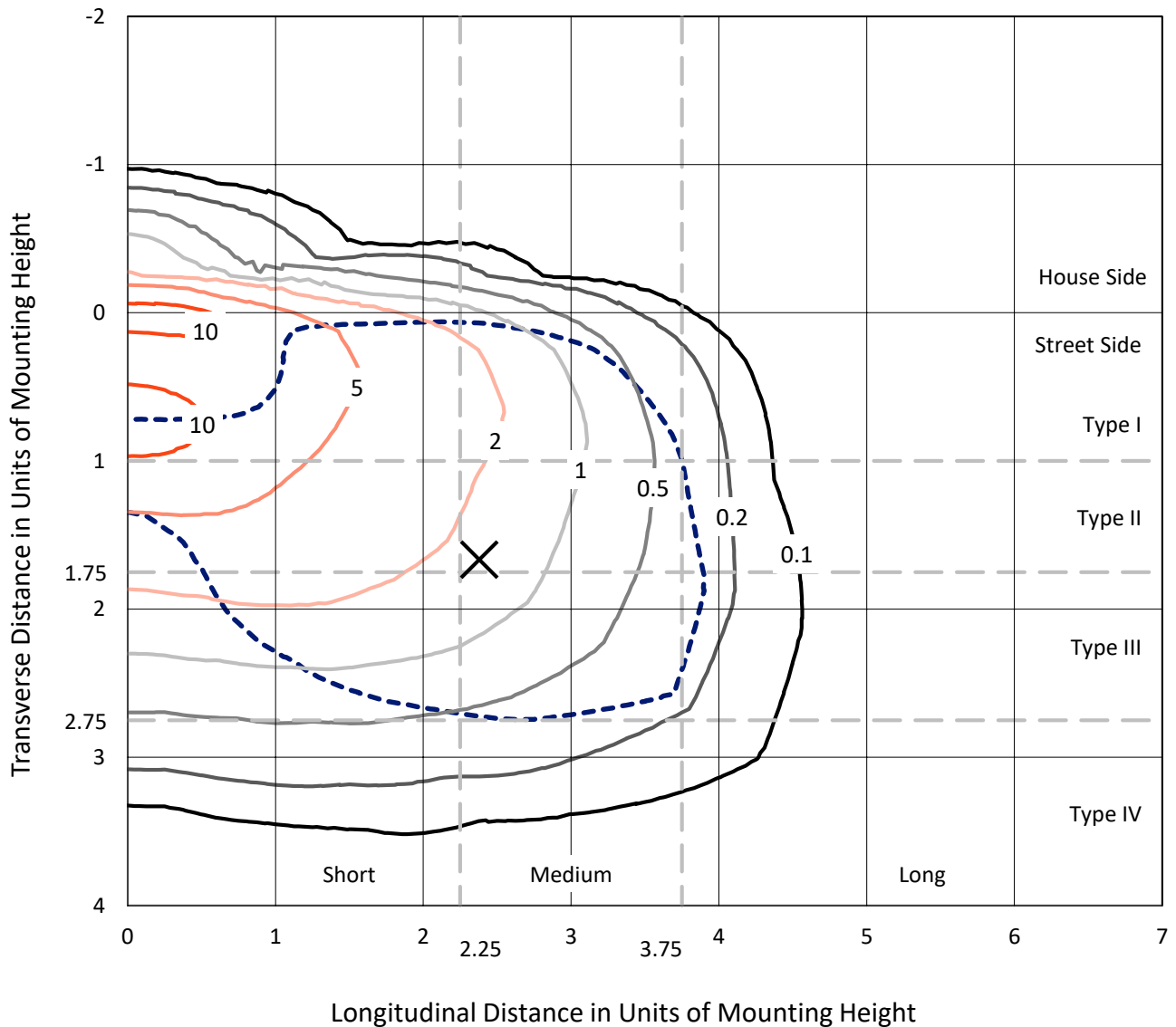
Input Watts (W): 448  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

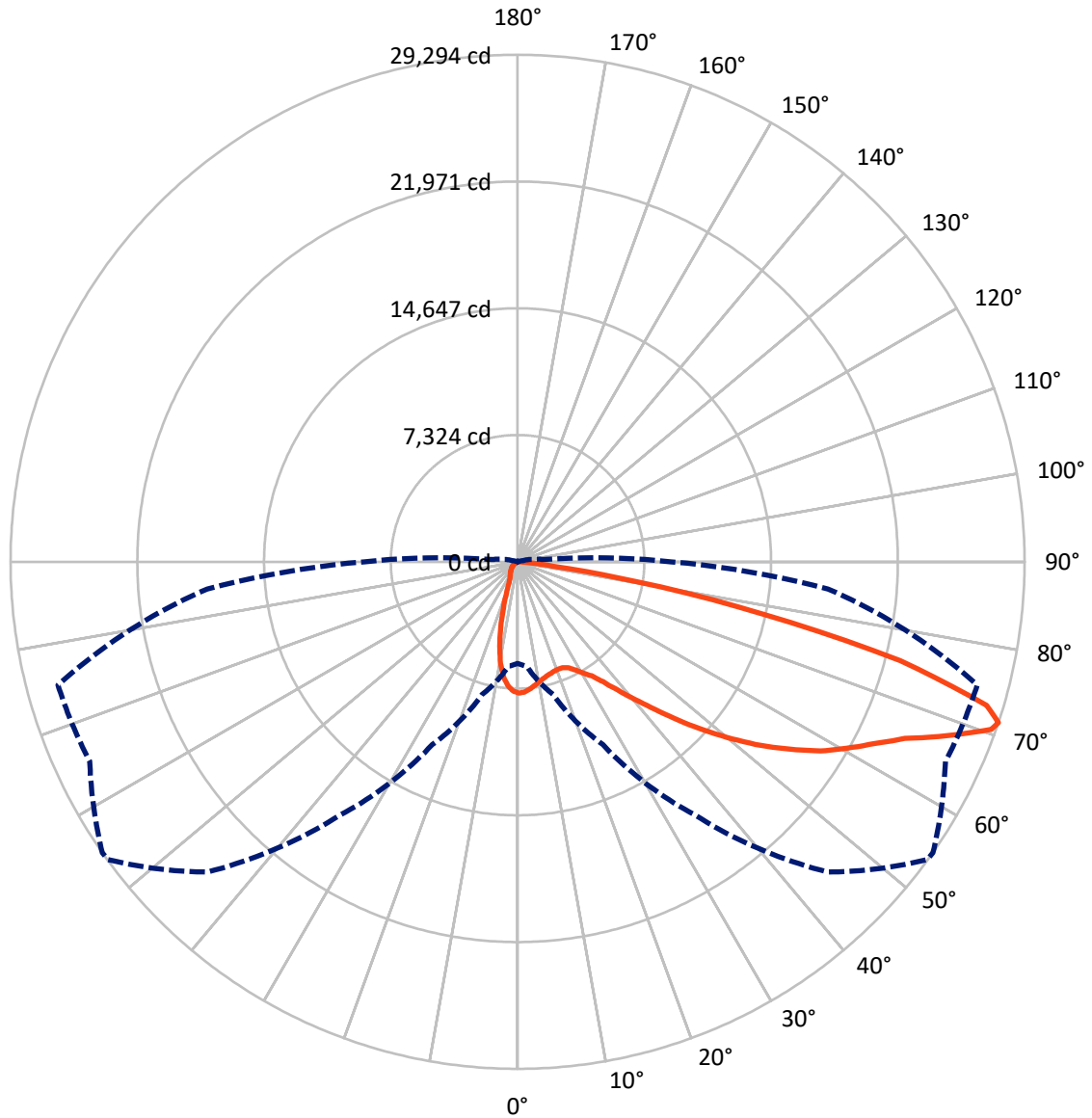
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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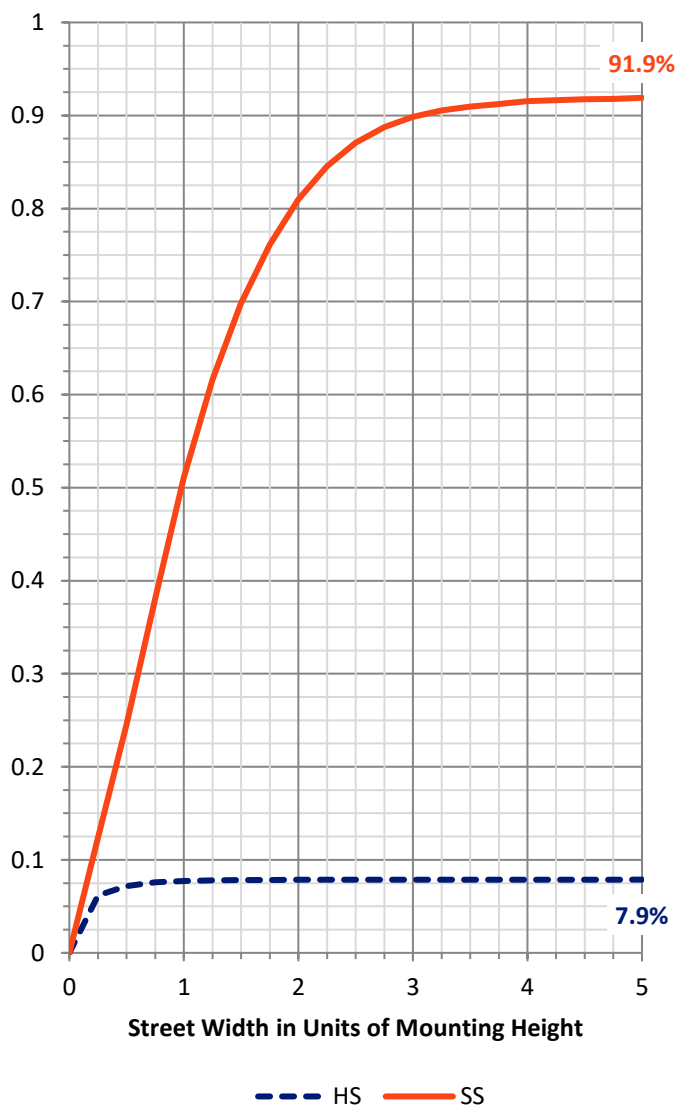
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3113.1	0.0	3113.1
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	36207.5	0.0	36207.5
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	39320.6	0.0	39320.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	646.6	1.6
10°-20°	1459.7	3.7
20°-30°	2345.7	6.0
30°-40°	3985.5	10.1
40°-50°	6186.0	15.7
50°-60°	8316.9	21.2
60°-70°	10174.4	25.9
70°-80°	5948.7	15.1
80°-90°	257.1	0.7
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°	39320.6	100.0
0°-180°	39320.6	100.0

**Coefficient of Utilization**

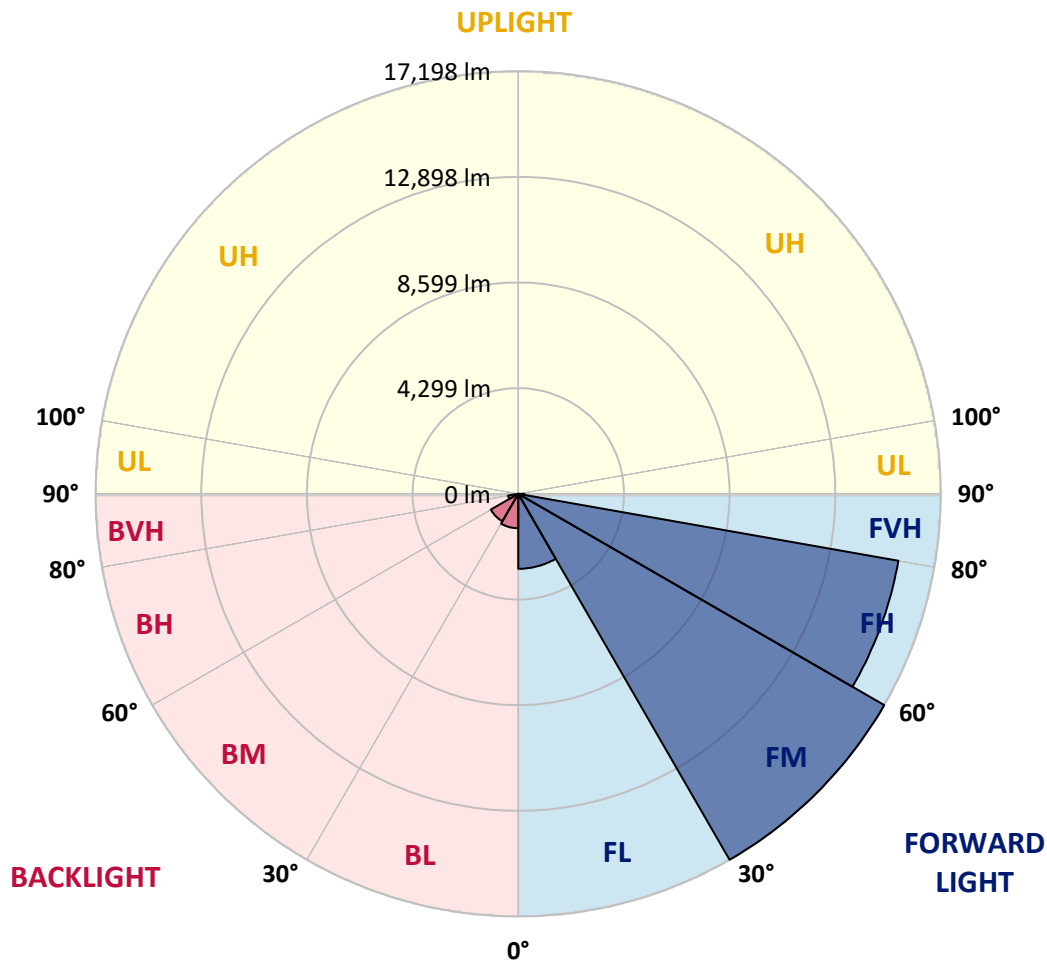


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3050.7	7.8			
FM (30°-60°)	17197.7	43.7			
FH (60°-80°)	15706.0	39.9			G5
FVH (80°-90°)	253.1	0.6			G3/500
BL (0°-30°)	1401.2	3.6	B3/2500		
BM (30°-60°)	1290.8	3.3	B2/2500		
BH (60°-80°)	417.1	1.1	B1/500		G1/500
BVH (80°-90°)	4.1	0.0			G0/10
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°	54°	55°	65°	75°	85°
0°	7583.1	7583.1	7583.1	7583.1	7583.1	7583.1	7583.1	7583.1	7583.1	7583.1	7583.1
2.5°	7360.6	7369.5	7401.2	7415.4	7448.9	7505.5	7533.7	7535.5	7581.4	7599.0	7613.2
5°	6839.8	6892.8	6945.7	7002.3	7104.6	7240.6	7374.8	7387.2	7535.5	7644.9	7703.2
7.5°	6391.3	6439.0	6502.6	6592.7	6737.4	6951.0	7175.2	7201.8	7482.5	7731.5	7862.1
10°	5930.5	5969.4	6061.2	6193.6	6393.1	6679.2	6981.0	7025.2	7434.8	7847.9	8077.4
12.5°	5438.0	5460.9	5572.1	5762.8	6055.9	6419.6	6816.9	6875.1	7404.8	7982.2	8331.8
15°	5063.6	5074.2	5180.1	5377.9	5713.4	6186.6	6689.7	6760.3	7411.9	8142.8	8608.9
17.5°	4968.3	4973.6	5030.1	5166.1	5462.7	5978.2	6589.1	6675.7	7433.0	8299.9	8887.9
20°	5355.0	5317.9	5259.6	5238.5	5365.5	5852.8	6529.1	6626.2	7461.3	8439.4	9138.6
22.5°	6416.1	6306.6	6064.7	5741.6	5545.7	5861.7	6545.0	6642.1	7551.3	8610.7	9428.1
25°	7991.0	7839.2	7427.8	6792.2	6181.3	6115.9	6677.4	6776.3	7726.2	8815.5	9705.3
27.5°	9783.0	9632.9	9129.7	8222.3	7180.6	6619.1	6981.0	7072.9	7985.7	8997.4	9917.2
30°	11499.1	11456.8	10863.5	9832.5	8437.7	7434.8	7373.0	7450.7	8178.1	9106.8	10084.9
32.5°	12954.0	12886.9	12410.2	11407.4	9876.6	8414.7	7833.8	7856.8	8322.9	9248.0	10303.8
35°	14302.9	14219.9	13801.4	12853.3	11352.6	9611.8	8543.6	8510.1	8638.9	9532.3	10621.7
37.5°	15480.6	15556.5	15092.1	14189.9	12676.8	10856.5	9500.6	9399.9	9133.3	9994.9	11082.5
40°	16465.7	16465.7	16223.8	15471.7	14106.9	12143.6	10582.8	10450.4	9876.6	10708.1	11666.9
42.5°	16820.6	16896.5	16986.6	16561.1	15386.9	13481.9	11788.7	11651.0	10923.6	11719.9	12404.9
45°	16841.7	16961.8	17422.6	17420.9	16543.4	14811.3	13148.2	13082.8	12265.4	13019.3	13319.5
47.5°	16543.4	16693.4	17452.6	17883.5	17459.7	16049.1	14634.8	14553.6	13842.1	14611.9	14276.4
50°	16082.6	16248.5	17131.3	18065.3	18082.9	17126.0	16200.9	16079.1	15577.6	16432.1	15265.1
52.5°	15258.1	15579.4	16843.5	18107.7	18492.6	18056.5	17691.0	17638.0	17519.7	18185.4	16052.5
55°	13494.2	13850.9	16121.5	18121.8	18872.2	18881.0	19087.6	19101.7	19340.0	19823.8	16638.7
57.5°	12660.9	12862.2	14860.8	18188.9	19435.4	19816.7	20510.6	20620.1	20989.1	21379.3	17307.9
60°	12136.6	12374.9	14239.4	18097.1	20319.9	21043.8	21829.5	21866.6	22262.0	22984.2	18213.6
62.5°	11718.1	11952.9	13847.4	17744.0	21314.0	22519.9	23118.4	23121.9	23418.5	24896.3	19243.0
65°	10685.2	10883.0	13054.6	17346.7	21970.7	23980.0	24615.6	24592.7	24834.5	26912.6	20438.2
67.5°	9191.6	9343.4	11435.6	15840.7	21723.6	25307.7	26875.5	26799.6	26506.5	28655.2	20907.8
70°	7106.4	7161.2	9013.2	13201.1	19407.1	25817.9	29059.5	29020.7	27532.3	28342.7	19186.4
71°	5874.1	6054.1	7943.3	11651.0	17855.3	25346.5	29271.4	29294.4	27274.5	27491.6	18001.8
72.5°	3411.0	3564.7	5757.5	8947.9	15159.2	23379.7	28173.2	28339.2	26070.4	25005.8	15376.3
75°	731.0	782.1	2134.5	4331.0	8338.7	16386.3	22237.3	22828.8	21248.6	17011.3	9267.5
77.5°	508.4	549.1	914.6	1965.1	2756.1	8096.9	13813.8	14481.2	12694.5	6393.1	2966.1
80°	402.5	448.4	713.3	971.0	745.1	2611.3	6470.8	6878.6	4233.8	1426.6	499.7
82.5°	224.2	266.6	556.1	524.4	286.0	496.1	1811.5	2048.1	847.4	287.8	118.3
85°	65.3	79.5	358.4	381.4	121.8	95.3	309.0	383.1	160.7	75.9	53.0
87.5°	0.0	0.0	173.0	146.5	35.3	14.2	28.2	31.8	31.8	31.8	35.3
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°	7583.1	7583.1	7583.1	7583.1	7583.1	7583.1	7583.1	7583.1	7583.1	7583.1	7583.1
2.5°	7613.2	7625.5	7581.4	7523.1	7461.3	7385.4	7305.9	7244.2	7242.4	7212.3	7182.3
5°	7706.7	7699.6	7577.9	7392.5	7173.5	6945.7	6728.6	6483.2	6402.0	6301.4	6267.7
7.5°	7879.8	7830.3	7572.6	7166.5	6686.2	6209.5	5716.9	5220.8	5008.9	4818.2	4784.7
10°	8096.9	8003.3	7539.0	6827.5	5946.4	5067.2	4323.9	3649.4	3352.8	3125.1	3114.4
12.5°	8322.9	8179.9	7445.4	6315.4	4977.2	3741.3	2884.9	2221.1	1973.9	1815.0	1829.1
15°	8559.5	8345.8	7244.2	5625.2	3873.7	2538.9	1772.6	1382.4	1283.6	1243.0	1253.6
17.5°	8801.4	8460.6	6963.4	4793.6	2784.3	1638.4	1227.0	1117.6	1117.6	1126.4	1130.0
20°	9011.5	8522.4	6550.3	3861.3	1887.4	1193.5	1073.4	1057.6	1066.4	1080.5	1082.3
22.5°	9219.8	8525.9	6011.7	2916.7	1320.7	1045.2	1022.3	1015.2	1020.5	1036.3	1038.1
25°	9389.3	8483.6	5337.3	2074.6	1054.0	985.2	974.6	971.0	974.6	994.1	994.1
27.5°	9458.2	8330.0	4514.6	1458.3	944.6	918.1	914.6	918.1	923.3	937.5	939.3
30°	9465.2	8061.6	3617.7	1055.8	856.3	828.1	835.1	847.4	842.2	838.7	842.2
32.5°	9482.9	7750.8	2743.7	868.7	782.1	738.0	729.2	729.2	708.0	695.7	688.6
35°	9541.1	7385.4	1989.8	780.4	706.2	655.1	621.4	582.7	542.1	520.8	515.5
37.5°	9632.9	7002.3	1424.8	722.1	639.1	580.9	517.3	448.4	390.2	374.3	374.3
40°	9800.7	6606.7	1054.0	676.2	586.1	513.7	418.5	328.4	275.5	266.6	266.6
42.5°	10065.6	6190.1	840.4	635.6	540.3	444.9	319.6	238.4	199.5	194.2	192.5
45°	10340.9	5731.1	734.4	596.7	490.8	365.4	236.6	176.5	153.6	148.3	148.3
47.5°	10616.4	5242.0	683.3	559.7	443.1	284.2	176.5	139.5	128.9	128.9	130.7
50°	10849.5	4731.7	646.2	519.1	381.4	215.4	139.5	118.3	114.8	121.8	123.6
52.5°	10907.7	4230.3	600.3	467.9	305.5	164.2	114.8	104.1	104.1	104.1	104.1
55°	10872.4	3841.9	540.3	404.3	226.0	130.7	98.8	91.9	90.1	90.1	90.1
57.5°	10992.4	3612.4	432.6	314.3	162.5	105.9	86.5	81.2	77.7	75.9	75.9
60°	11234.3	3462.3	309.0	226.0	121.8	88.3	74.2	68.8	63.5	60.0	60.0
62.5°	11555.7	3331.6	229.5	167.8	93.6	70.6	61.8	56.5	49.5	45.9	45.9
65°	11802.8	3098.6	174.8	125.4	70.6	56.5	47.7	45.9	35.3	31.8	30.0
67.5°	11425.0	2586.5	141.2	91.9	53.0	44.2	37.1	35.3	21.1	17.7	17.7
70°	9798.9	1800.9	113.0	67.1	38.8	35.3	30.0	22.9	15.9	14.2	14.2
71°	8886.1	1504.3	102.4	56.5	33.5	33.5	28.2	19.4	14.2	12.4	12.4
72.5°	7381.9	1068.2	86.5	44.2	30.0	35.3	30.0	17.7	14.2	12.4	10.6
75°	4285.0	446.7	60.0	30.0	22.9	42.4	38.8	15.9	10.6	8.8	8.8
77.5°	1288.9	164.2	33.5	19.4	17.7	37.1	44.2	14.2	5.3	1.8	1.8
80°	234.8	70.6	21.1	12.4	12.4	22.9	33.5	7.1	0.0	0.0	0.0
82.5°	83.0	35.3	12.4	7.1	5.3	10.6	15.9	0.0	0.0	0.0	0.0
85°	47.7	24.7	7.1	3.5	0.0	1.8	3.5	0.0	0.0	0.0	0.0
87.5°	31.8	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)