

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: P383544

Luminaire Tested: **GLEON-SA8B-735-U-T3R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383544  
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-SA8B-735-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 800mA 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: 32813.8 lumens  
Efficiency: N/A  
Efficacy: 98.2 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

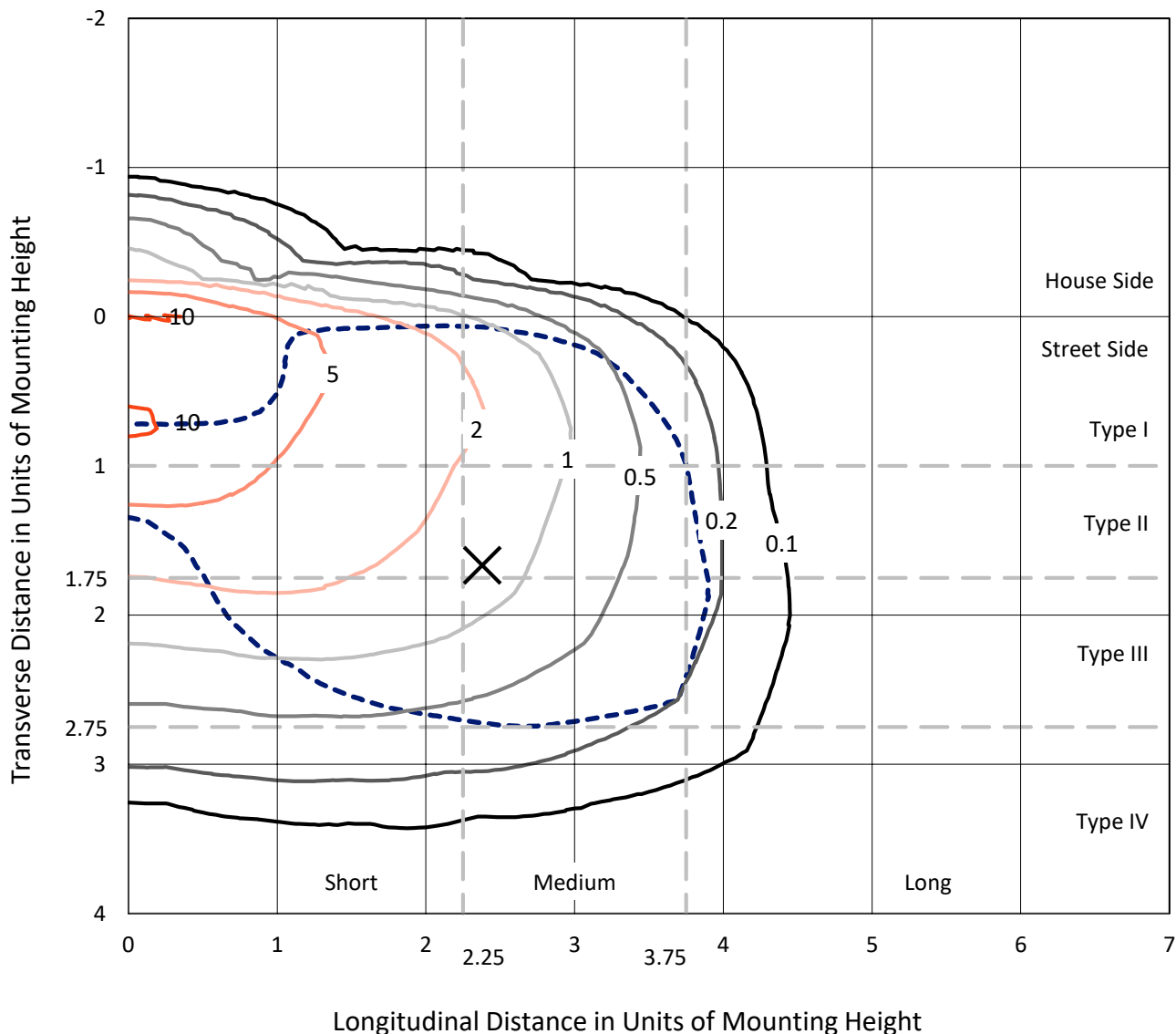
Input Watts (W): 334  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

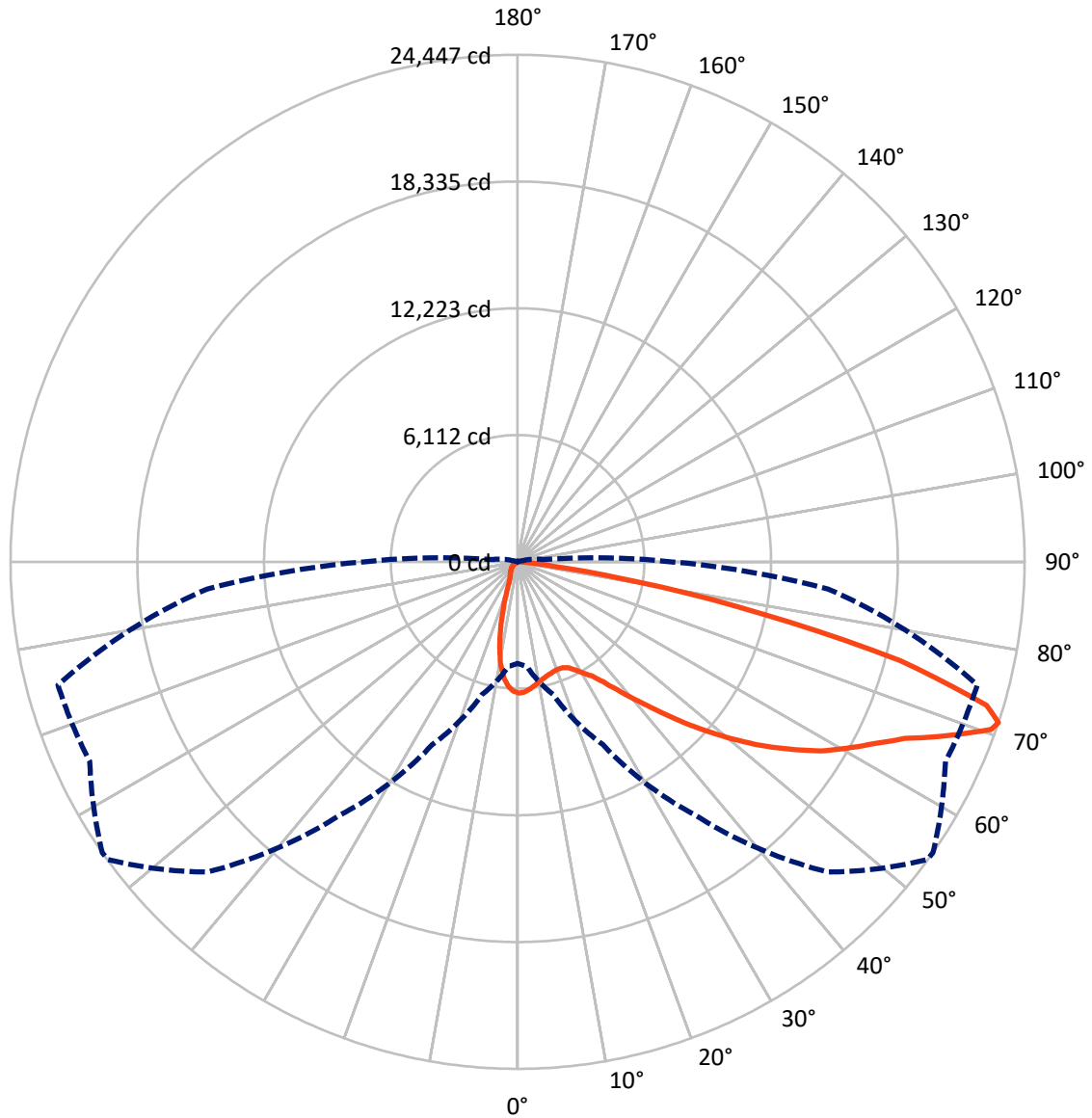
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 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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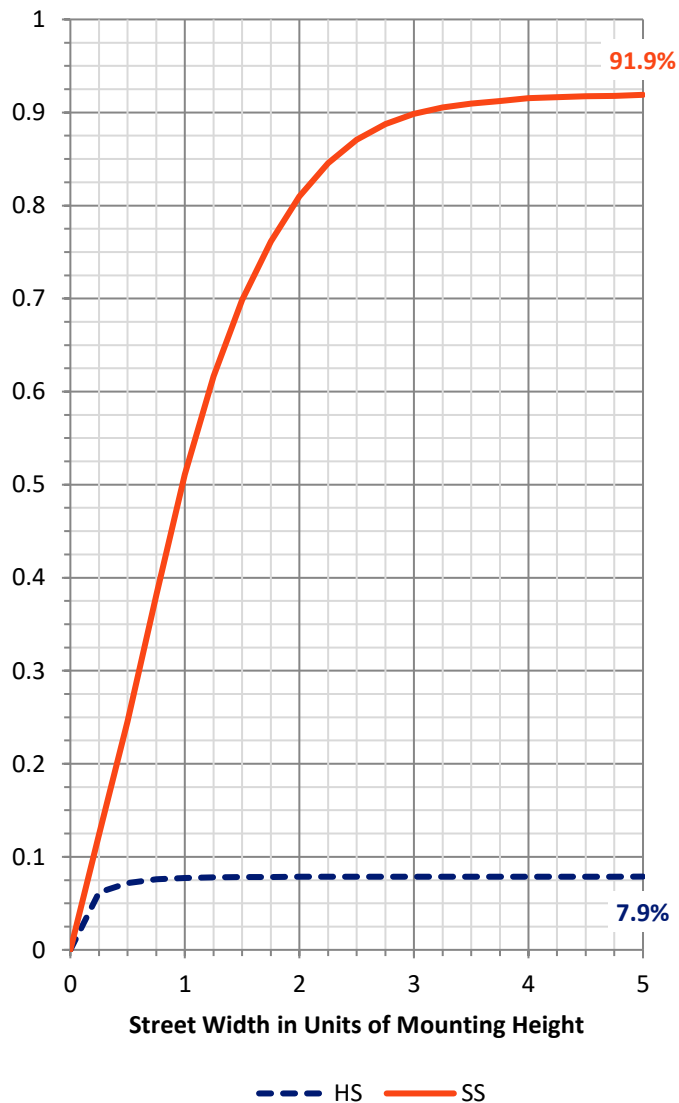
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2598.0	0.0	2598.0
	% Fixture	7.9	0.0	7.9
<b>Street Side</b>	Lumens	30215.8	0.0	30215.8
	% Fixture	92.1	0.0	92.1
<b>Total</b>	Lumens	32813.8	0.0	32813.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	539.6	1.6
10°-20°	1218.1	3.7
20°-30°	1957.6	6.0
30°-40°	3326.0	10.1
40°-50°	5162.3	15.7
50°-60°	6940.6	21.2
60°-70°	8490.7	25.9
70°-80°	4964.3	15.1
80°-90°	214.6	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°	32813.8	100.0
0°-180°	32813.8	100.0

**Coefficient of Utilization**

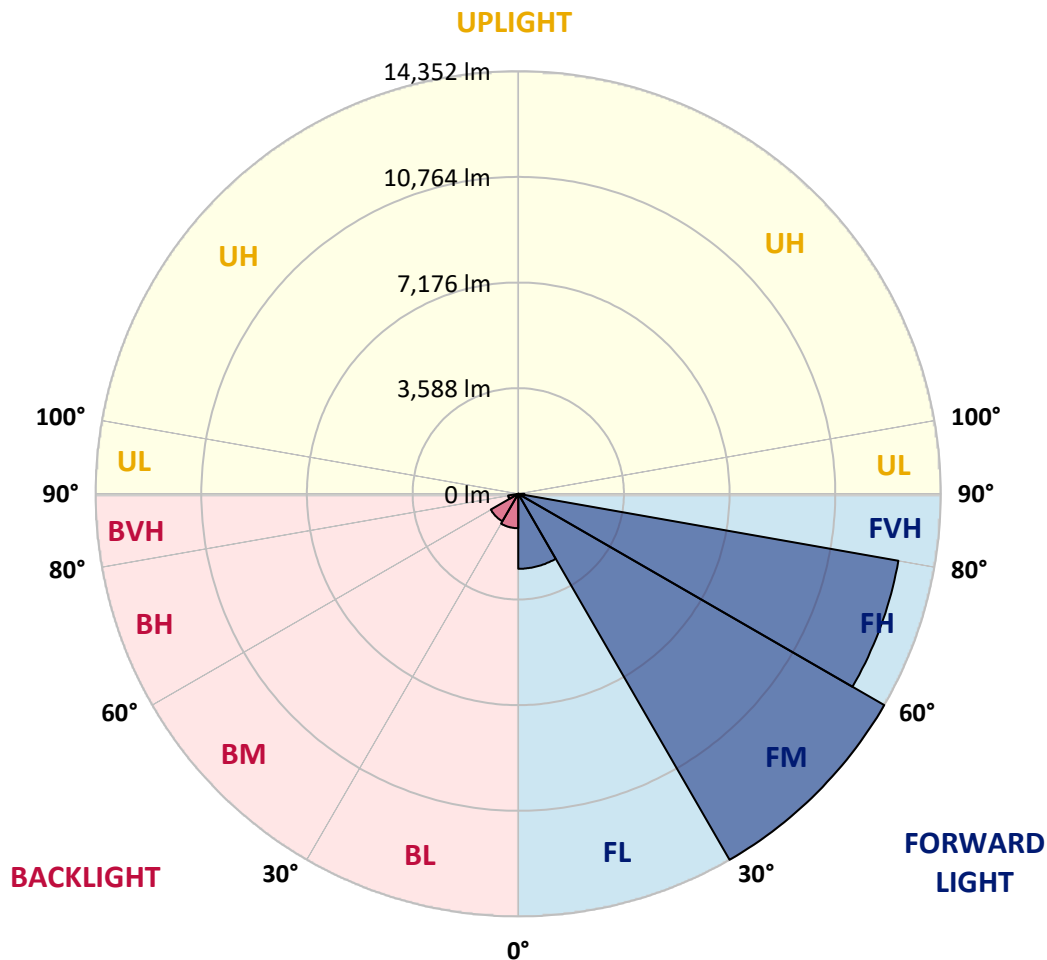


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2545.9	7.8			
FM (30°-60°)	14351.8	43.7			
FH (60°-80°)	13106.9	39.9			G5
FVH (80°-90°)	211.2	0.6			G2/225
BL (0°-30°)	1169.3	3.6	B3/2500		
BM (30°-60°)	1077.2	3.3	B2/2500		
BH (60°-80°)	348.1	1.1	B1/500		G1/500
BVH (80°-90°)	3.4	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°	6328.3	6328.3	6328.3	6328.3	6328.3	6328.3	6328.3	6328.3	6328.3	6328.3	6328.3
2.5°	6142.6	6150.0	6176.5	6188.3	6216.3	6263.4	6287.0	6288.5	6326.8	6341.5	6353.3
5°	5708.0	5752.1	5796.4	5843.5	5928.9	6042.4	6154.4	6164.7	6288.5	6379.8	6428.4
7.5°	5333.7	5373.4	5426.5	5501.7	5622.4	5800.7	5987.9	6010.0	6244.3	6452.0	6561.1
10°	4949.1	4981.5	5058.2	5168.7	5335.2	5573.9	5825.8	5862.7	6204.5	6549.2	6740.8
12.5°	4538.0	4557.2	4650.0	4809.2	5053.7	5357.2	5688.8	5737.4	6179.4	6661.2	6953.0
15°	4225.7	4234.5	4322.9	4488.0	4767.9	5162.8	5582.7	5641.6	6185.3	6795.4	7184.3
17.5°	4146.1	4150.6	4197.7	4311.2	4558.7	4988.9	5498.7	5570.9	6203.0	6926.4	7417.1
20°	4468.8	4437.9	4389.3	4371.6	4477.7	4884.3	5448.6	5529.7	6226.6	7042.9	7626.3
22.5°	5354.3	5263.0	5061.1	4791.5	4627.9	4891.6	5461.8	5542.9	6301.7	7185.8	7867.9
25°	6668.6	6541.9	6198.6	5668.2	5158.4	5103.9	5572.4	5654.9	6447.6	7356.7	8099.2
27.5°	8164.1	8038.9	7618.9	6861.6	5992.3	5523.8	5825.8	5902.5	6664.2	7508.5	8276.1
30°	9596.2	9560.8	9065.8	8205.4	7041.4	6204.5	6152.9	6217.7	6824.8	7599.8	8416.1
32.5°	10810.3	10754.3	10356.6	9519.7	8242.2	7022.2	6537.5	6556.6	6945.6	7717.7	8598.7
35°	11936.0	11866.8	11517.6	10726.3	9473.9	8021.2	7129.8	7101.7	7209.3	7954.9	8864.0
37.5°	12918.8	12982.1	12594.6	11841.7	10579.0	9060.0	7928.4	7844.4	7621.9	8340.9	9248.5
40°	13740.9	13740.9	13539.1	12911.4	11772.4	10134.0	8831.5	8721.1	8242.2	8936.1	9736.3
42.5°	14037.1	14100.5	14175.5	13820.5	12840.6	11250.9	9837.9	9722.9	9115.9	9780.4	10352.1
45°	14054.7	14155.0	14539.5	14538.0	13805.7	12360.3	10972.4	10917.9	10235.8	10864.8	11115.3
47.5°	13805.7	13931.0	14564.6	14924.0	14570.4	13393.2	12213.1	12145.2	11551.5	12193.9	11913.9
50°	13421.2	13559.7	14296.4	15075.8	15090.6	14292.0	13519.9	13418.3	12999.8	13712.9	12739.0
52.5°	12733.1	13001.2	14056.2	15111.2	15432.4	15068.4	14763.4	14719.3	14620.5	15176.0	13396.1
55°	11261.2	11558.8	13453.6	15122.9	15749.2	15756.6	15928.9	15940.7	16139.6	16543.4	13885.3
57.5°	10565.7	10733.8	12401.6	15179.0	16219.2	16537.5	17116.4	17207.8	17515.8	17841.4	14443.7
60°	10128.2	10327.0	11883.0	15102.3	16957.3	17561.4	18217.2	18248.1	18578.1	19180.8	15199.6
62.5°	9778.9	9974.9	11555.8	14807.7	17786.9	18793.2	19292.7	19295.6	19543.2	20776.4	16058.6
65°	8917.1	9082.0	10894.4	14476.2	18335.0	20011.7	20542.1	20523.0	20724.9	22459.1	17056.1
67.5°	7670.5	7797.2	9543.2	13219.3	18128.8	21119.7	22428.1	22364.8	22120.2	23913.3	17448.0
70°	5930.4	5976.1	7521.7	11016.6	16195.6	21545.5	24250.7	24218.3	22976.2	23652.5	16011.4
71°	4902.0	5052.2	6628.8	9722.9	14900.5	21152.1	24427.5	24446.6	22761.1	22942.3	15022.8
72.5°	2846.6	2974.8	4804.7	7467.2	12650.6	19510.8	23511.1	23649.6	21756.2	20867.8	12831.9
75°	610.0	652.7	1781.3	3614.2	6958.8	13674.7	18557.5	19051.1	17732.4	14196.2	7733.9
77.5°	424.3	458.2	763.2	1639.9	2300.0	6757.0	11527.9	12084.8	10593.7	5335.2	2475.3
80°	335.9	374.2	595.3	810.4	621.8	2179.2	5400.0	5740.4	3533.2	1190.5	417.0
82.5°	187.1	222.5	464.1	437.6	238.7	414.0	1511.7	1709.1	707.2	240.2	98.7
85°	54.5	66.3	299.1	318.2	101.6	79.6	257.9	319.7	134.0	63.3	44.2
87.5°	0.0	0.0	144.4	122.3	29.4	11.8	23.6	26.5	26.5	26.5	29.4
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°	6328.3	6328.3	6328.3	6328.3	6328.3	6328.3	6328.3	6328.3	6328.3	6328.3	6328.3
2.5°	6353.3	6363.6	6326.8	6278.2	6226.6	6163.2	6096.9	6045.4	6043.9	6018.8	5993.8
5°	6431.4	6425.5	6323.8	6169.1	5986.4	5796.4	5615.1	5410.3	5342.5	5258.6	5230.5
7.5°	6575.8	6534.5	6319.4	5980.5	5579.8	5181.9	4770.8	4356.8	4180.0	4020.9	3992.9
10°	6757.0	6678.9	6291.4	5697.6	4962.4	4228.7	3608.3	3045.5	2798.0	2608.0	2599.1
12.5°	6945.6	6826.3	6213.3	5270.3	4153.5	3122.2	2407.5	1853.5	1647.3	1514.7	1526.4
15°	7143.0	6964.7	6045.4	4694.3	3232.7	2118.7	1479.3	1153.6	1071.2	1037.3	1046.1
17.5°	7344.9	7060.6	5811.1	4000.3	2323.6	1367.3	1024.1	932.7	932.7	940.0	943.0
20°	7520.2	7112.1	5466.3	3222.3	1575.1	996.0	895.9	882.5	889.9	901.7	903.2
22.5°	7694.1	7115.1	5016.9	2434.0	1102.1	872.2	853.1	847.2	851.6	864.8	866.3
25°	7835.5	7079.7	4454.1	1731.3	879.7	822.2	813.3	810.4	813.3	829.5	829.5
27.5°	7893.0	6951.5	3767.5	1217.1	788.3	766.2	763.2	766.2	770.6	782.4	783.8
30°	7898.9	6727.5	3019.0	881.1	714.6	691.0	696.9	707.2	702.9	699.9	702.9
32.5°	7913.6	6468.2	2289.7	724.9	652.7	615.8	608.5	608.5	590.8	580.5	574.7
35°	7962.2	6163.2	1660.5	651.2	589.4	546.6	518.6	486.3	452.4	434.7	430.2
37.5°	8038.9	5843.5	1189.0	602.6	533.4	484.8	431.7	374.2	325.6	312.3	312.3
40°	8178.8	5513.5	879.7	564.3	489.2	428.8	349.2	274.1	229.8	222.5	222.5
42.5°	8399.9	5165.7	701.4	530.4	450.9	371.3	266.7	198.9	166.5	162.1	160.6
45°	8629.7	4782.7	613.0	498.0	409.6	305.0	197.4	147.4	128.2	123.8	123.8
47.5°	8859.6	4374.5	570.2	467.1	369.8	237.2	147.4	116.4	107.6	107.6	109.0
50°	9054.1	3948.7	539.3	433.2	318.2	179.8	116.4	98.7	95.8	101.6	103.1
52.5°	9102.7	3530.3	501.0	390.4	254.9	137.0	95.8	86.9	86.9	86.9	86.9
55°	9073.2	3206.1	450.9	337.4	188.6	109.0	82.5	76.6	75.2	75.2	75.2
57.5°	9173.4	3014.6	361.0	262.2	135.5	88.4	72.2	67.8	64.8	63.3	63.3
60°	9375.3	2889.4	257.9	188.6	101.6	73.7	61.9	57.5	53.0	50.1	50.1
62.5°	9643.4	2780.3	191.5	140.0	78.1	59.0	51.6	47.1	41.3	38.3	38.3
65°	9849.7	2585.8	145.9	104.6	59.0	47.1	39.8	38.3	29.4	26.5	25.1
67.5°	9534.4	2158.5	117.8	76.6	44.2	36.8	30.9	29.4	17.7	14.7	14.7
70°	8177.4	1502.9	94.3	56.0	32.4	29.4	25.1	19.2	13.2	11.8	11.8
71°	7415.6	1255.4	85.4	47.1	28.0	28.0	23.6	16.2	11.8	10.3	10.3
72.5°	6160.3	891.4	72.2	36.8	25.1	29.4	25.1	14.7	11.8	10.3	8.8
75°	3575.9	372.8	50.1	25.1	19.2	35.4	32.4	13.2	8.8	7.4	7.4
77.5°	1075.6	137.0	28.0	16.2	14.7	30.9	36.8	11.8	4.4	1.5	1.5
80°	196.0	59.0	17.7	10.3	10.3	19.2	28.0	5.9	0.0	0.0	0.0
82.5°	69.2	29.4	10.3	5.9	4.4	8.8	13.2	0.0	0.0	0.0	0.0
85°	39.8	20.6	5.9	3.0	0.0	1.5	3.0	0.0	0.0	0.0	0.0
87.5°	26.5	5.9	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)