

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: P382650

Luminaire Tested: **GLEON-SA0B-735-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382650  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA0B-735-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37419.3 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

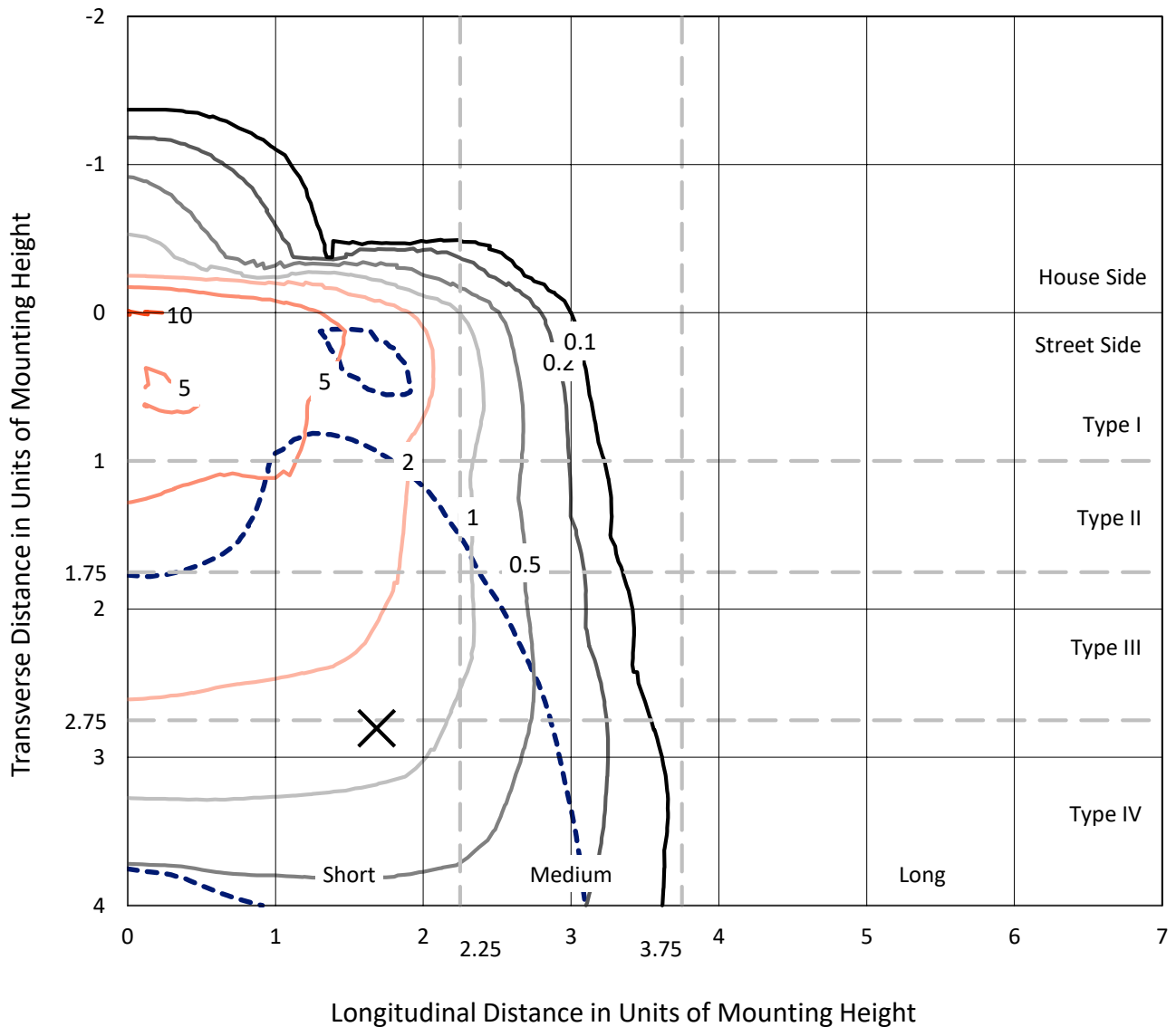
Input Watts (W): 419  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

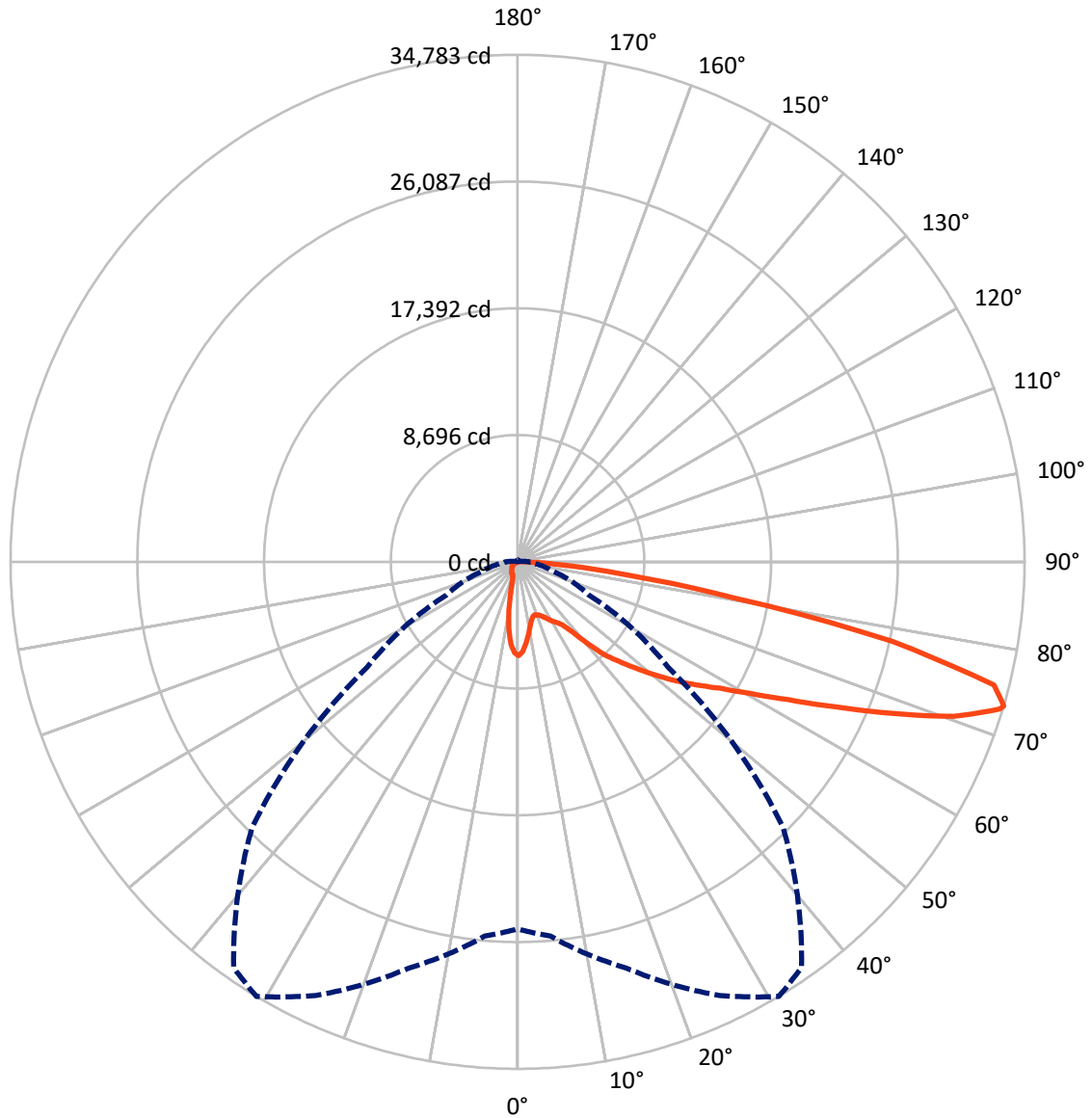
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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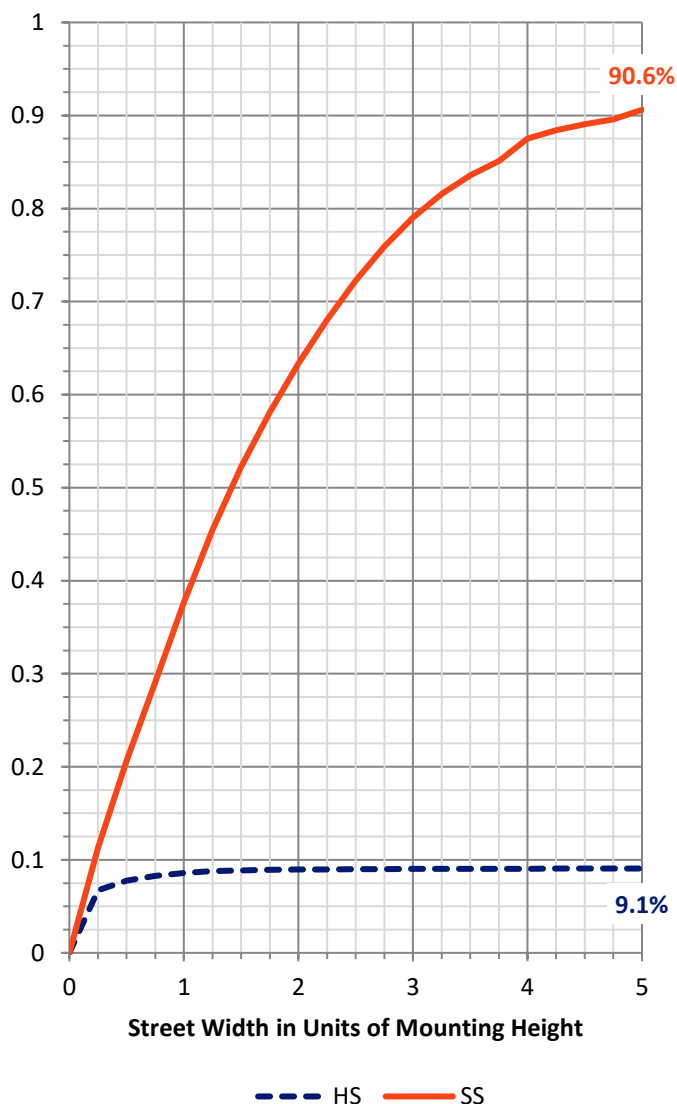
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3410.9	0.0	3410.9
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	34008.4	0.0	34008.4
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	37419.3	0.0	37419.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	533.8	1.4
10°-20°	1159.0	3.1
20°-30°	1736.6	4.6
30°-40°	2762.9	7.4
40°-50°	4933.8	13.2
50°-60°	7655.9	20.5
60°-70°	10177.4	27.2
70°-80°	7655.5	20.5
80°-90°	804.4	2.1
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°	37419.3	100.0
0°-180°	37419.3	100.0

**Coefficient of Utilization**

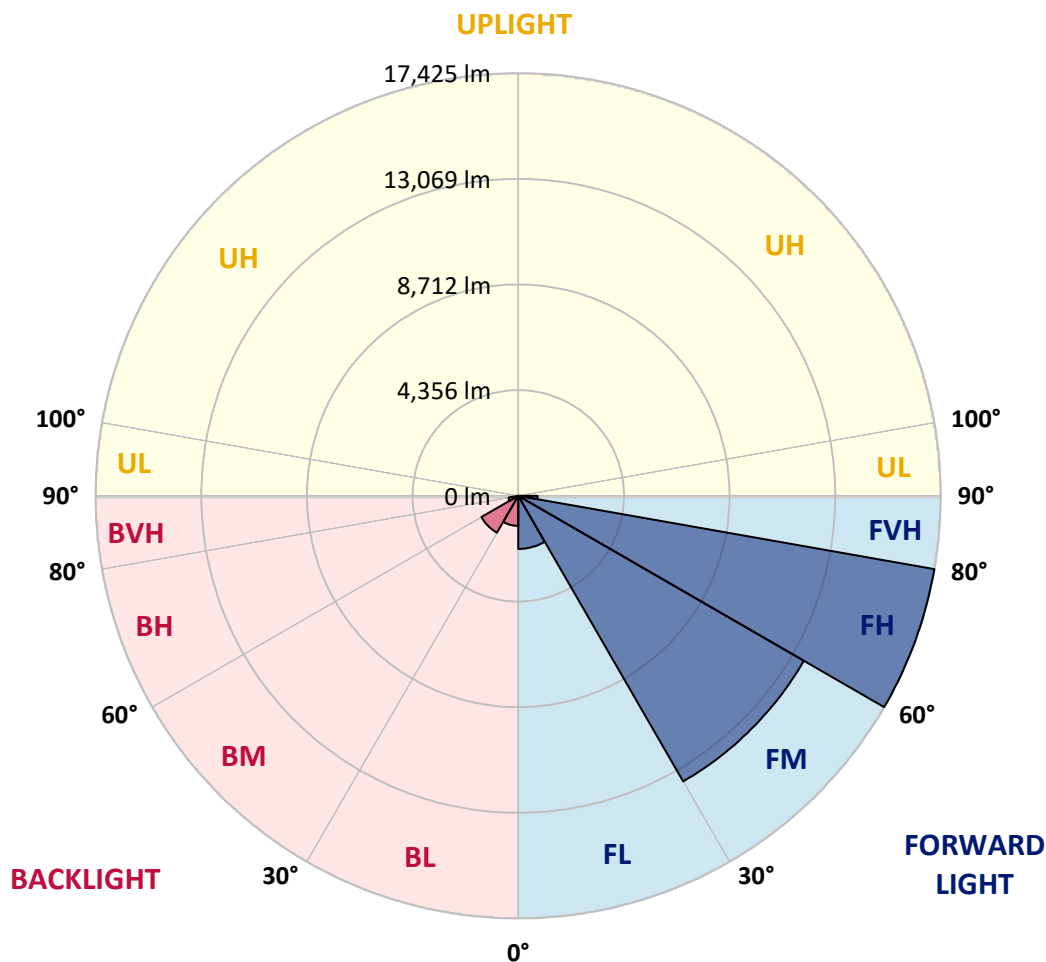


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2189.1	5.9			
FM (30°-60°)	13596.9	36.3			
FH (60°-80°)	17424.8	46.6			G5
FVH (80°-90°)	797.7	2.1			G5
BL (0°-30°)	1240.4	3.3	B3/2500		
BM (30°-60°)	1755.7	4.7	B2/2500		
BH (60°-80°)	408.1	1.1	B1/500		G1/500
BVH (80°-90°)	6.8	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	6438.1	6438.1	6438.1	6438.1	6438.1	6438.1	6438.1	6438.1	6438.1	6438.1	6438.1
2.5°	6101.2	6126.8	6154.3	6159.8	6205.5	6207.4	6273.3	6322.7	6372.2	6419.8	6436.2
5°	5474.9	5517.0	5566.5	5615.9	5713.0	5751.4	5912.5	6077.3	6234.8	6385.0	6458.2
7.5°	4806.6	4854.2	4923.8	5046.5	5154.5	5229.5	5484.1	5777.1	6070.1	6346.5	6505.8
10°	4196.8	4240.8	4314.0	4444.0	4610.7	4713.2	5055.6	5462.1	5892.4	6311.7	6577.2
12.5°	3808.6	3832.5	3872.7	4011.9	4162.1	4277.4	4680.3	5183.8	5746.0	6309.9	6692.6
15°	3737.3	3744.5	3711.6	3773.9	3891.1	4002.8	4411.1	4958.5	5634.2	6339.2	6842.8
17.5°	3850.7	3847.1	3737.3	3729.9	3823.3	3914.8	4279.3	4803.0	5555.5	6406.9	7036.8
20°	4022.9	4010.0	3819.6	3784.9	3883.7	3969.8	4270.1	4744.4	5526.2	6520.5	7273.1
22.5°	4251.8	4229.8	3931.3	3894.7	4000.9	4090.6	4383.6	4801.1	5551.8	6672.5	7547.7
25°	4535.6	4502.6	4123.6	4083.3	4191.3	4281.0	4586.8	4964.0	5628.7	6857.4	7895.6
27.5°	4856.1	4808.4	4431.2	4326.9	4449.5	4542.9	4857.8	5213.1	5749.6	7053.3	8322.3
30°	5158.2	5095.9	4755.3	4583.2	4733.4	4837.7	5150.8	5509.7	5943.6	7355.4	8906.3
32.5°	5462.1	5392.5	5044.6	4839.6	4975.0	5088.6	5452.9	5918.0	6308.1	7816.9	9682.8
35°	6161.5	6088.3	5661.7	5323.0	5321.1	5385.2	5875.9	6476.5	6789.7	8459.6	10609.3
37.5°	7338.9	7296.8	6890.4	6247.6	6075.6	6004.1	6452.7	7143.0	7481.8	9344.0	11654.8
40°	8628.1	8591.4	8135.5	7553.2	7291.3	7115.5	7280.3	8071.4	8459.6	10424.3	12722.3
42.5°	10083.7	9909.8	9096.8	8922.8	8688.5	8554.8	8406.5	9215.8	9660.8	11599.9	13780.7
45°	11405.8	11112.8	10058.1	9794.5	9741.4	9774.3	9856.7	10754.0	11012.1	12997.0	14835.4
47.5°	12193.1	11962.5	11153.1	10900.4	10885.8	11103.7	11726.2	12491.6	12357.9	14214.7	15763.7
50°	12942.1	12733.3	12061.3	12123.5	12191.3	12488.0	13848.5	14278.8	13586.6	15318.8	16615.2
52.5°	13548.1	13229.6	12878.0	13227.7	13561.0	14038.9	16038.5	15882.8	14458.2	16197.7	17344.0
55°	13897.9	13753.3	13923.6	14275.1	14901.3	15677.7	18105.7	17217.6	15095.4	16999.7	17829.2
57.5°	15179.7	14895.8	15234.6	15538.5	16355.2	17441.0	19876.3	18211.9	15555.0	17496.0	17941.0
60°	16730.6	16501.7	16701.3	17206.6	18308.9	19585.2	21531.7	19023.0	15794.9	17814.5	17651.6
62.5°	19198.8	18896.7	18772.2	19338.0	20799.2	22192.6	22787.8	19585.2	15741.8	17673.6	16659.1
65°	22505.8	22192.6	21636.0	22148.8	24007.3	24990.5	24192.2	19704.3	15375.6	16532.8	14150.6
67.5°	25893.3	25666.3	25190.2	26054.5	27731.7	28048.4	25677.2	19414.9	14196.3	13405.3	9997.6
70°	28130.9	28033.8	28343.3	30254.9	31750.9	31659.4	27039.6	17860.4	11065.2	8243.5	4945.8
72.5°	26517.7	26982.7	29267.9	32734.2	34561.6	33814.5	26340.1	13714.8	6324.6	3171.5	1430.1
73°	25181.0	25776.1	28852.3	32827.6	34783.1	33964.7	25752.3	12588.7	5390.7	2503.1	1084.0
75°	17517.9	18248.6	23886.5	30573.5	33746.8	32360.7	21465.7	7705.2	2497.6	1109.7	437.6
77.5°	8505.4	9045.5	13152.6	22090.2	26244.9	25283.5	13363.2	2871.1	1127.9	694.0	201.4
80°	3175.1	3530.3	5709.3	11242.8	15166.8	15564.2	5877.8	1085.8	750.7	558.5	102.6
82.5°	831.3	926.5	2105.8	5013.5	7772.9	8135.5	1853.0	547.5	549.3	459.6	62.2
85°	265.5	304.0	657.4	2250.4	3662.2	3215.3	483.4	265.5	399.2	342.4	34.7
87.5°	33.0	42.1	208.8	529.2	807.5	448.6	75.1	78.7	170.3	190.4	20.1
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°	6438.1	6438.1	6438.1	6438.1	6438.1	6438.1	6438.1	6438.1	6438.1	6438.1	6438.1
2.5°	6452.7	6443.6	6445.4	6397.8	6366.7	6304.4	6240.3	6211.0	6179.9	6167.0	6179.9
5°	6485.7	6469.2	6421.6	6275.1	6119.4	5918.0	5729.5	5586.6	5407.2	5357.7	5409.0
7.5°	6536.9	6504.0	6364.8	6066.3	5720.3	5335.7	4903.7	4588.7	4330.5	4163.8	4224.3
10°	6612.0	6549.8	6269.6	5762.4	5143.5	4462.3	3849.0	3371.0	3032.3	2893.1	2887.6
12.5°	6738.3	6621.2	6152.4	5366.9	4438.5	3530.3	2726.5	2208.3	1933.6	1756.0	1752.3
15°	6877.5	6705.4	6004.1	4892.7	3618.2	2528.7	1756.0	1362.3	1184.7	1127.9	1120.7
17.5°	7047.8	6802.4	5811.8	4308.5	2759.4	1675.5	1146.3	1032.7	1025.4	1020.0	1020.0
20°	7262.1	6917.9	5564.7	3640.2	1957.5	1118.8	974.1	981.5	985.1	977.8	979.6
22.5°	7511.1	7035.0	5269.9	2922.4	1323.9	935.6	932.0	941.1	944.9	941.1	943.0
25°	7800.4	7170.5	4910.9	2169.9	955.9	888.0	897.3	910.0	919.2	919.2	919.2
27.5°	8159.3	7335.3	4478.8	1514.3	825.8	838.7	864.3	888.0	900.9	904.5	904.5
30°	8626.2	7540.4	3960.7	1038.2	750.7	772.7	820.3	866.1	889.9	893.5	895.4
32.5°	9215.8	7771.1	3360.0	767.2	686.6	703.1	754.4	831.3	877.1	884.4	884.4
35°	9891.5	8038.4	2713.7	668.4	640.9	646.4	686.6	774.6	855.1	875.3	877.1
37.5°	10631.3	8302.1	2063.7	624.4	602.4	602.4	631.7	706.8	802.0	864.3	871.6
40°	11321.6	8461.4	1446.5	589.6	567.6	567.6	593.3	648.2	737.9	831.3	851.4
42.5°	11958.7	8516.3	1007.1	556.7	534.7	540.2	562.1	606.1	673.9	767.2	785.6
45°	12614.3	8507.2	734.2	518.2	501.7	518.2	534.7	567.6	617.1	670.2	673.9
47.5°	13108.7	8430.3	582.3	481.6	470.6	492.6	507.2	529.2	556.7	553.0	553.0
50°	13572.0	8243.5	468.8	432.1	439.5	465.1	472.4	479.7	481.6	446.8	443.1
52.5°	13923.6	7952.3	375.4	379.0	408.3	434.0	426.6	415.7	397.3	355.2	347.9
55°	14040.8	7392.1	294.8	313.1	362.6	395.5	368.1	344.2	309.5	274.6	267.4
57.5°	13828.3	6668.8	239.9	243.5	305.8	333.2	302.1	274.6	236.2	206.9	201.4
60°	13377.9	5864.9	197.8	183.1	236.2	260.0	239.9	212.4	177.6	155.7	153.8
62.5°	12484.3	5008.0	162.9	142.8	179.4	199.6	186.8	166.7	137.3	122.7	120.8
65°	10605.6	4006.4	131.8	115.3	139.2	155.7	144.7	130.0	108.1	97.1	95.2
67.5°	7403.0	2708.2	108.1	95.2	109.8	122.7	113.6	106.2	86.1	84.2	86.1
70°	3570.6	1305.6	89.7	76.9	86.1	95.2	91.6	86.1	82.4	95.2	109.8
72.5°	1023.6	437.6	71.4	64.1	69.6	75.1	78.7	76.9	89.7	115.3	133.7
73°	787.3	353.4	67.7	60.5	66.0	73.2	76.9	75.1	91.6	117.2	133.7
75°	336.9	170.3	51.2	49.5	55.0	64.1	67.7	67.7	91.6	119.1	128.2
77.5°	151.9	91.6	33.0	38.5	47.6	51.2	56.7	56.7	73.2	91.6	91.6
80°	86.1	49.5	25.6	29.3	34.7	34.7	34.7	31.1	33.0	36.6	40.2
82.5°	55.0	33.0	20.1	23.8	22.0	18.4	14.6	14.6	12.9	14.6	18.4
85°	31.1	18.4	18.4	14.6	9.1	7.4	9.1	7.4	1.9	0.0	1.9
87.5°	18.4	11.0	5.5	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)