

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: P383281

Luminaire Tested: **GLEON-SA6A-735-U-SL4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383281  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA6A-735-U-SL4  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24673 lumens  
Efficiency: N/A  
Efficacy: 127.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5

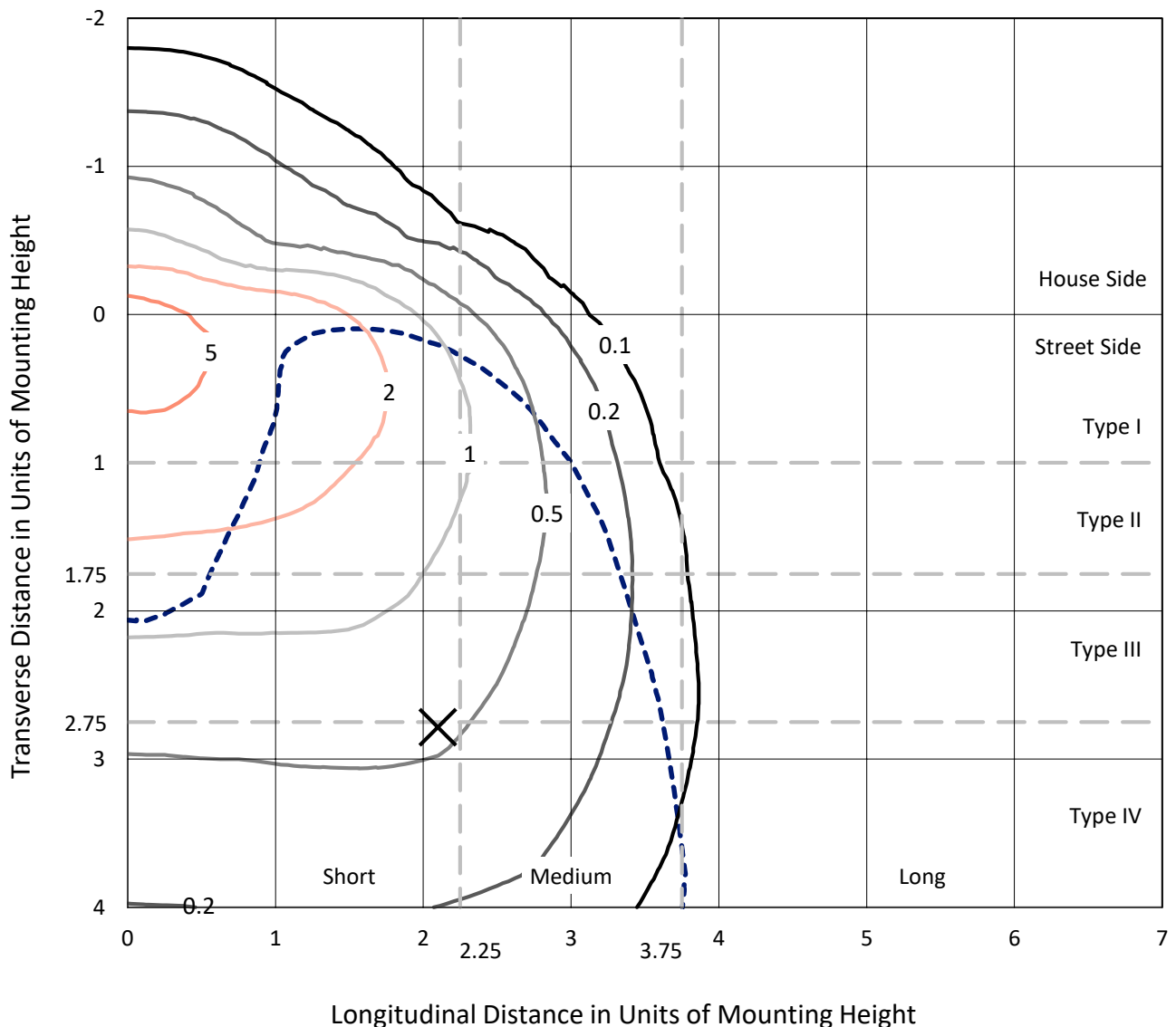
Input Watts (W): 193  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

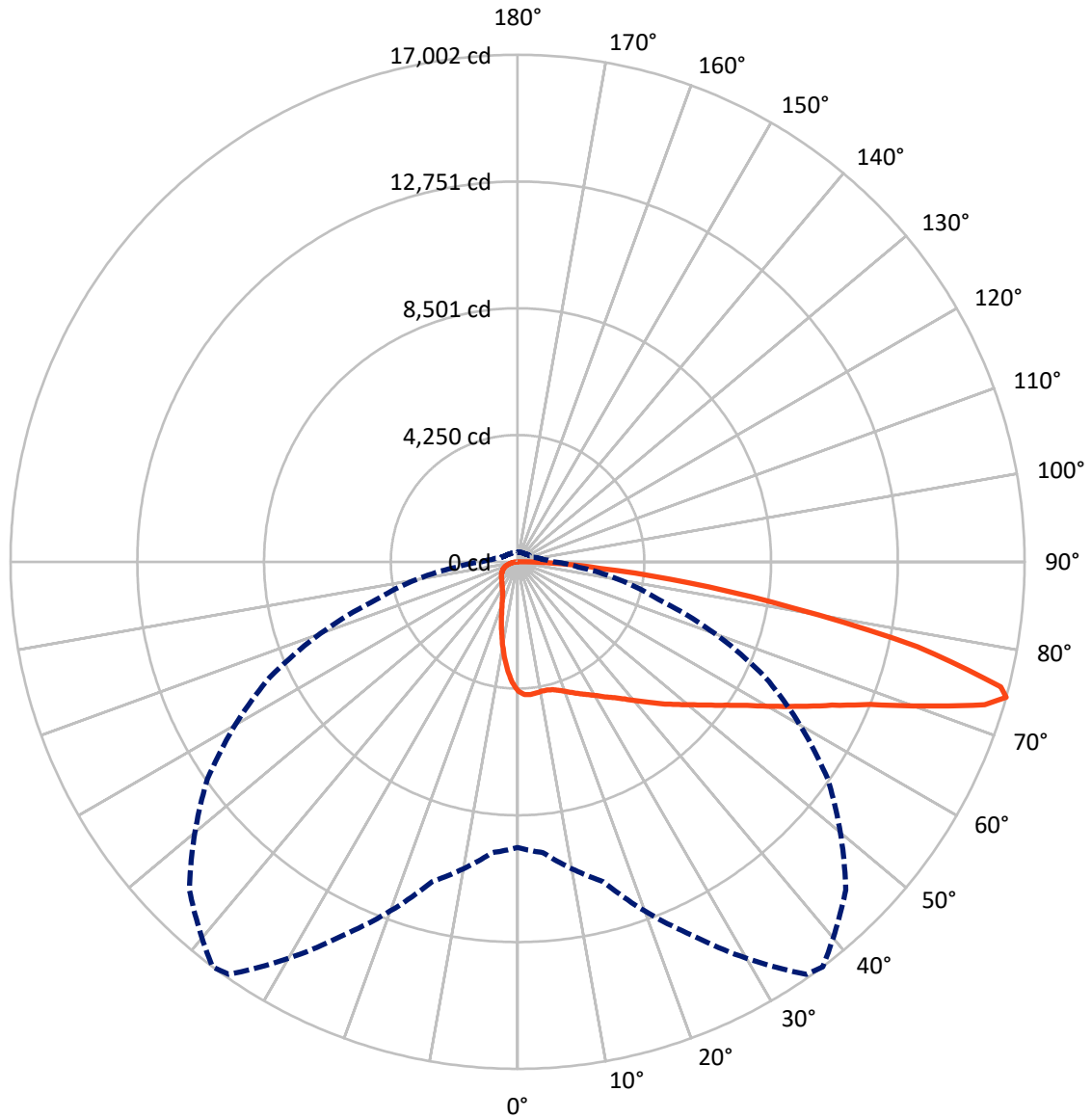
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral      - - - Horizontal Cone Through 74-Deg Vertical

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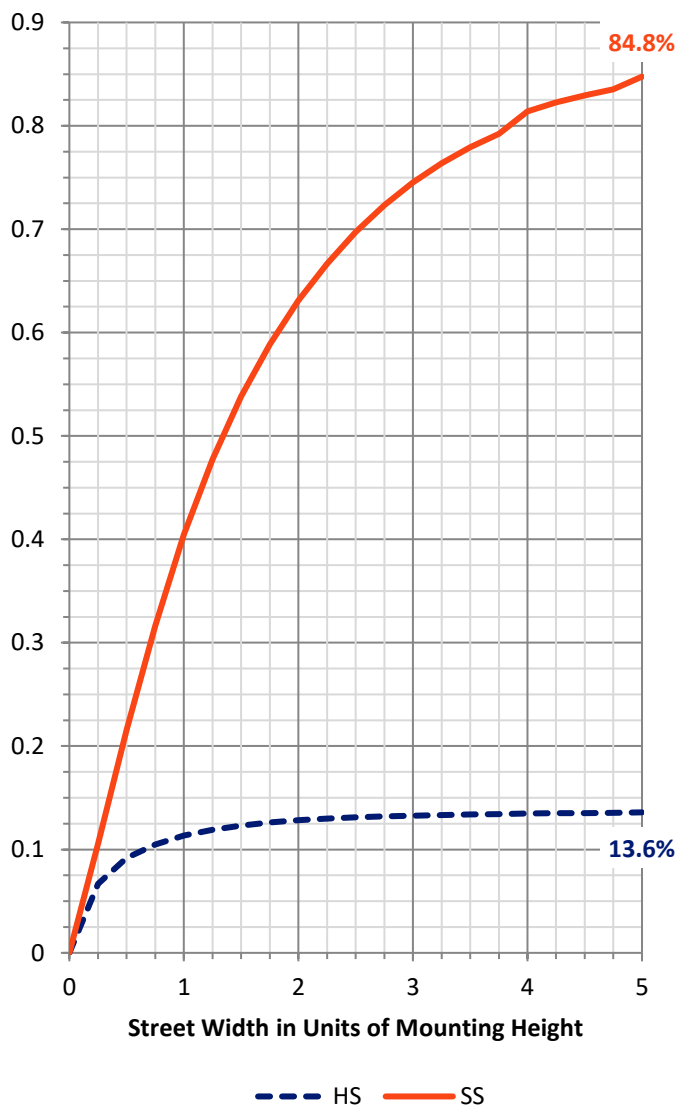
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3394.8	0.0	3394.8
	% Fixture	13.8	0.0	13.8
<b>Street Side</b>	Lumens	21278.1	0.0	21278.1
	% Fixture	86.2	0.0	86.2
<b>Total</b>	Lumens	24673.0	0.0	24673.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	382.8	1.6
10°-20°	981.3	4.0
20°-30°	1512.0	6.1
30°-40°	2198.6	8.9
40°-50°	3236.0	13.1
50°-60°	4544.4	18.4
60°-70°	5751.8	23.3
70°-80°	5064.7	20.5
80°-90°	1001.4	4.1
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°	24673.0	100.0
0°-180°	24673.0	100.0

**Coefficient of Utilization**

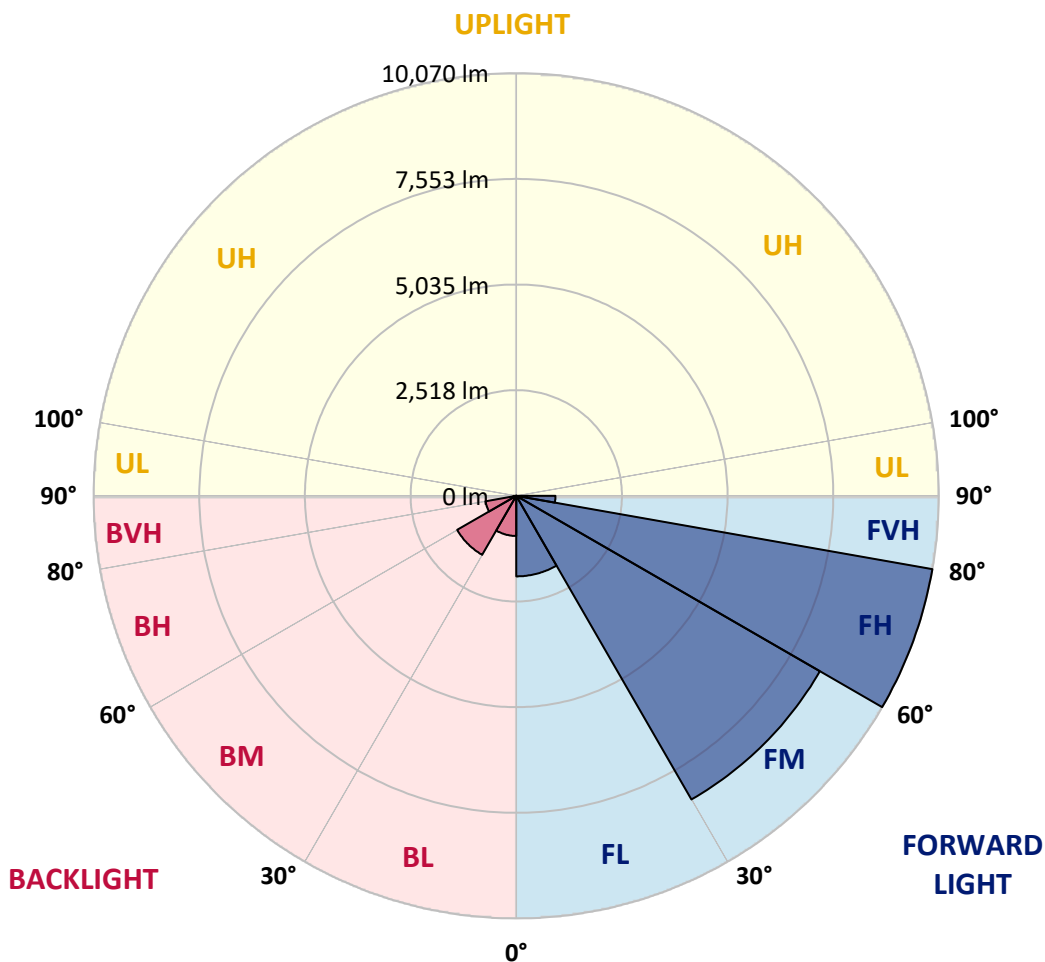


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1919.8	7.8			
FM (30°-60°)	8354.5	33.9			
FH (60°-80°)	10070.2	40.8			G4/12000
FVH (80°-90°)	933.6	3.8			G5
BL (0°-30°)	956.2	3.9	B2/1000		
BM (30°-60°)	1624.6	6.6	B2/2500		
BH (60°-80°)	746.2	3.0	B2/1000		G2/1000
BVH (80°-90°)	67.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G5**  
 Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	4347.3	4347.3	4347.3	4347.3	4347.3	4347.3	4347.3	4347.3	4347.3	4347.3	4347.3
2.5°	4495.9	4496.8	4495.9	4488.9	4472.5	4458.6	4447.2	4430.7	4394.2	4366.4	4324.7
5°	4538.5	4533.3	4529.8	4516.8	4490.7	4475.1	4453.4	4422.1	4362.1	4306.5	4238.6
7.5°	4518.5	4512.4	4504.6	4488.9	4459.4	4446.4	4415.9	4375.1	4302.9	4230.0	4132.6
10°	4456.8	4455.0	4451.6	4448.1	4422.9	4412.5	4384.6	4341.2	4269.9	4181.3	4067.4
12.5°	4388.1	4392.4	4406.4	4424.7	4413.3	4408.1	4390.8	4361.2	4288.2	4192.6	4055.3
15°	4344.6	4356.8	4394.2	4442.0	4451.6	4449.8	4445.5	4426.3	4349.0	4243.0	4083.1
17.5°	4329.9	4349.9	4421.1	4500.2	4528.1	4534.1	4535.9	4502.8	4416.8	4304.7	4111.8
20°	4356.8	4382.0	4486.3	4595.0	4639.3	4642.7	4634.9	4577.6	4481.1	4357.7	4127.4
22.5°	4438.5	4461.1	4591.5	4714.0	4764.5	4769.7	4746.2	4659.3	4548.9	4420.3	4149.1
25°	4595.9	4623.6	4754.1	4876.6	4902.6	4903.5	4869.6	4761.9	4637.5	4508.0	4196.1
27.5°	4800.9	4828.8	4946.1	5066.0	5052.2	5044.3	4998.2	4890.4	4753.1	4628.9	4279.5
30°	5029.5	5060.0	5171.2	5256.4	5223.4	5207.7	5170.4	5031.3	4913.9	4794.0	4407.2
32.5°	5265.9	5293.7	5391.1	5449.3	5407.6	5400.6	5344.2	5217.2	5123.4	5046.0	4614.1
35°	5508.4	5528.4	5624.0	5657.0	5601.4	5599.6	5584.1	5467.5	5408.5	5445.0	4914.8
37.5°	5756.1	5761.3	5843.0	5844.7	5828.2	5835.2	5851.7	5778.7	5795.3	5909.1	5305.9
40°	5976.9	5990.8	6049.8	6068.1	6096.8	6121.1	6203.7	6155.9	6283.7	6485.2	5792.6
42.5°	6140.3	6167.2	6262.0	6308.9	6401.9	6440.1	6556.5	6600.9	6858.1	7160.6	6371.4
45°	6278.4	6320.2	6472.2	6568.7	6726.1	6792.9	6959.8	7108.5	7507.3	7893.3	6980.6
47.5°	6428.0	6481.0	6671.3	6855.5	7069.3	7145.0	7448.3	7670.7	8200.0	8630.2	7555.1
50°	6647.8	6688.7	6874.6	7164.1	7430.9	7528.2	7948.0	8266.9	8904.0	9332.5	8053.1
52.5°	6954.6	6939.0	7096.3	7502.1	7860.2	7980.2	8481.6	8901.4	9617.6	9967.8	8473.8
55°	7263.2	7237.1	7347.5	7855.8	8360.8	8486.9	9069.2	9538.5	10296.3	10539.7	8796.2
57.5°	7606.5	7556.9	7649.9	8254.8	8930.9	9081.3	9727.0	10215.5	10963.8	11002.0	9001.4
60°	7960.2	7893.3	7997.5	8749.3	9654.9	9832.2	10497.1	10876.0	11593.0	11372.3	9067.4
62.5°	8269.5	8222.7	8383.5	9301.2	10471.1	10665.7	11253.2	11578.3	12213.6	11526.1	8829.3
65°	8539.9	8547.7	8825.8	9921.7	11381.0	11588.7	12120.6	12443.9	12702.0	11434.8	8272.1
67.5°	8862.3	8906.6	9381.2	10738.7	12526.4	12754.2	13382.5	13387.7	12975.0	10899.5	7175.3
70°	9332.5	9423.7	10145.1	11872.0	14155.1	14468.1	14953.0	13942.3	12591.6	9448.0	5645.7
72.5°	9749.7	9920.1	10957.7	13168.7	16140.2	16377.4	15871.7	13622.4	10989.8	7080.6	3517.2
74°	9580.2	9791.4	11105.4	13807.5	16887.7	17001.5	15561.4	12689.0	9163.0	4903.5	2044.2
75°	9215.1	9444.6	10890.0	13801.4	16792.9	16729.5	14812.3	11622.5	7546.5	3344.3	1360.2
77.5°	7436.9	7679.4	9176.0	11828.6	13769.3	13709.3	11378.4	7796.8	3305.2	1096.8	690.9
80°	4323.8	4509.0	5696.1	7511.7	9284.6	9393.4	7483.0	3858.0	1300.2	616.2	468.5
82.5°	1920.8	2048.5	2751.6	3834.5	5603.2	5743.1	3918.8	2021.6	803.1	374.6	281.6
85°	1260.2	1354.9	1670.5	1826.0	2668.1	2763.8	1918.1	1573.9	530.1	206.0	206.8
87.5°	906.5	997.8	1241.1	1083.8	1224.6	1159.4	1043.8	1456.7	213.0	117.4	69.5
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°	4347.3	4347.3	4347.3	4347.3	4347.3	4347.3	4347.3	4347.3	4347.3	4347.3	4347.3
2.5°	4306.5	4292.6	4261.3	4202.1	4169.1	4141.3	4095.3	4068.3	4056.1	4055.3	4060.4
5°	4199.5	4167.4	4086.5	3987.5	3908.4	3836.2	3746.7	3692.8	3654.6	3632.0	3638.1
7.5°	4075.2	4024.8	3898.0	3739.8	3612.9	3473.0	3334.8	3252.2	3187.8	3140.1	3148.8
10°	3990.1	3920.5	3735.4	3507.7	3296.6	3093.2	2902.8	2789.0	2698.6	2629.0	2634.2
12.5°	3961.4	3867.5	3611.1	3307.0	3010.6	2732.5	2483.9	2309.2	2216.2	2137.2	2143.2
15°	3965.8	3839.7	3506.8	3126.2	2753.4	2403.1	2101.5	1897.3	1771.2	1716.5	1717.4
17.5°	3969.2	3807.6	3397.4	2932.4	2498.7	2095.4	1767.8	1560.9	1441.8	1391.5	1392.3
20°	3958.0	3755.4	3261.7	2709.9	2232.7	1813.0	1495.7	1320.2	1229.8	1190.7	1190.7
22.5°	3943.1	3693.7	3108.8	2486.5	1970.2	1567.9	1301.1	1167.2	1115.1	1089.0	1088.1
25°	3950.1	3647.7	2952.4	2257.0	1728.7	1372.4	1171.5	1082.9	1048.2	1031.6	1030.8
27.5°	3987.5	3626.0	2808.1	2028.5	1517.5	1225.5	1084.7	1022.1	999.5	989.0	989.0
30°	4055.3	3626.0	2657.7	1833.8	1341.9	1116.8	1017.7	975.1	959.5	952.5	952.5
32.5°	4173.4	3645.9	2512.6	1640.9	1202.0	1031.6	962.1	933.4	921.3	917.8	917.8
35°	4376.9	3713.7	2371.0	1458.3	1089.0	962.1	909.1	892.6	883.9	883.0	885.6
37.5°	4662.8	3851.9	2237.9	1323.6	1009.1	905.7	864.8	851.7	846.5	850.9	854.3
40°	5022.6	4039.7	2117.1	1202.0	948.2	860.4	824.0	815.2	812.6	818.7	824.0
42.5°	5457.1	4293.4	2018.1	1114.2	901.3	822.2	789.1	778.7	776.1	783.1	790.0
45°	5927.3	4566.3	1948.5	1049.0	864.8	793.5	758.7	747.5	742.3	745.7	753.5
47.5°	6354.9	4824.4	1920.8	1003.0	830.0	769.2	731.8	717.9	709.2	707.4	713.6
50°	6715.6	5016.5	1933.8	975.1	802.2	742.3	705.7	690.1	677.0	669.2	673.6
52.5°	6978.0	5137.3	1945.9	962.9	780.5	712.6	677.0	662.2	644.9	631.9	631.9
55°	7168.4	5165.2	1919.0	953.4	764.0	680.5	644.9	630.9	613.6	598.8	597.1
57.5°	7243.2	5086.9	1819.0	939.5	752.7	650.1	611.0	600.6	585.8	568.4	567.5
60°	7142.4	4845.3	1626.1	909.9	737.9	624.9	577.1	570.1	563.2	546.6	545.8
62.5°	6737.3	4315.1	1376.6	849.9	708.3	598.0	545.8	549.2	550.2	538.8	537.1
65°	6002.9	3586.8	1133.3	771.8	664.0	565.8	513.7	530.1	539.7	538.0	535.4
67.5°	4935.7	2791.6	960.3	689.2	605.8	521.5	478.9	498.0	505.8	511.9	510.2
70°	3663.3	1968.5	794.3	602.3	535.4	469.3	433.7	443.2	438.0	445.0	447.6
72.5°	2042.4	1181.1	647.5	515.4	462.3	408.5	383.2	381.6	370.2	370.2	370.2
74°	1225.5	866.5	569.3	461.5	418.1	368.5	346.8	339.0	328.6	329.4	328.6
75°	985.6	744.9	522.3	425.9	386.8	345.0	323.3	312.9	305.1	305.1	304.2
77.5°	622.3	565.8	420.7	339.0	309.4	284.2	269.4	255.5	255.5	254.7	253.8
80°	470.2	450.2	327.6	256.4	237.3	218.2	208.6	202.5	202.5	205.1	204.2
82.5°	322.4	339.0	230.3	179.0	169.4	155.6	153.8	154.7	152.1	148.6	147.7
85°	235.5	254.7	155.6	113.0	103.4	94.7	101.7	105.2	100.8	93.0	89.5
87.5°	90.4	166.8	83.5	46.9	43.4	37.4	43.4	45.2	48.6	38.3	39.1
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)