

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: P382604

Luminaire Tested: **GLEON-SA0A-735-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382604  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA0A-735-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35591.7 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

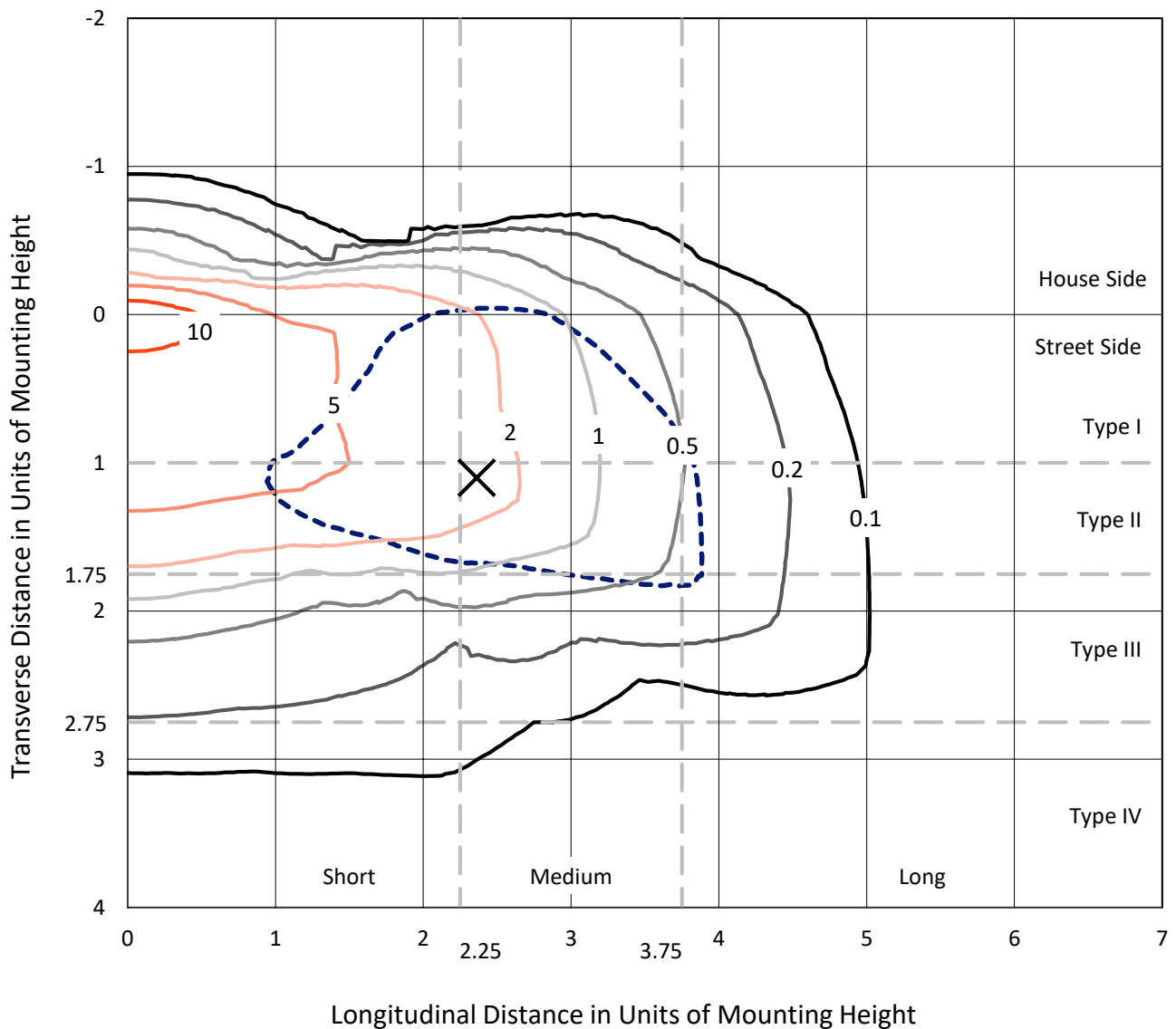
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

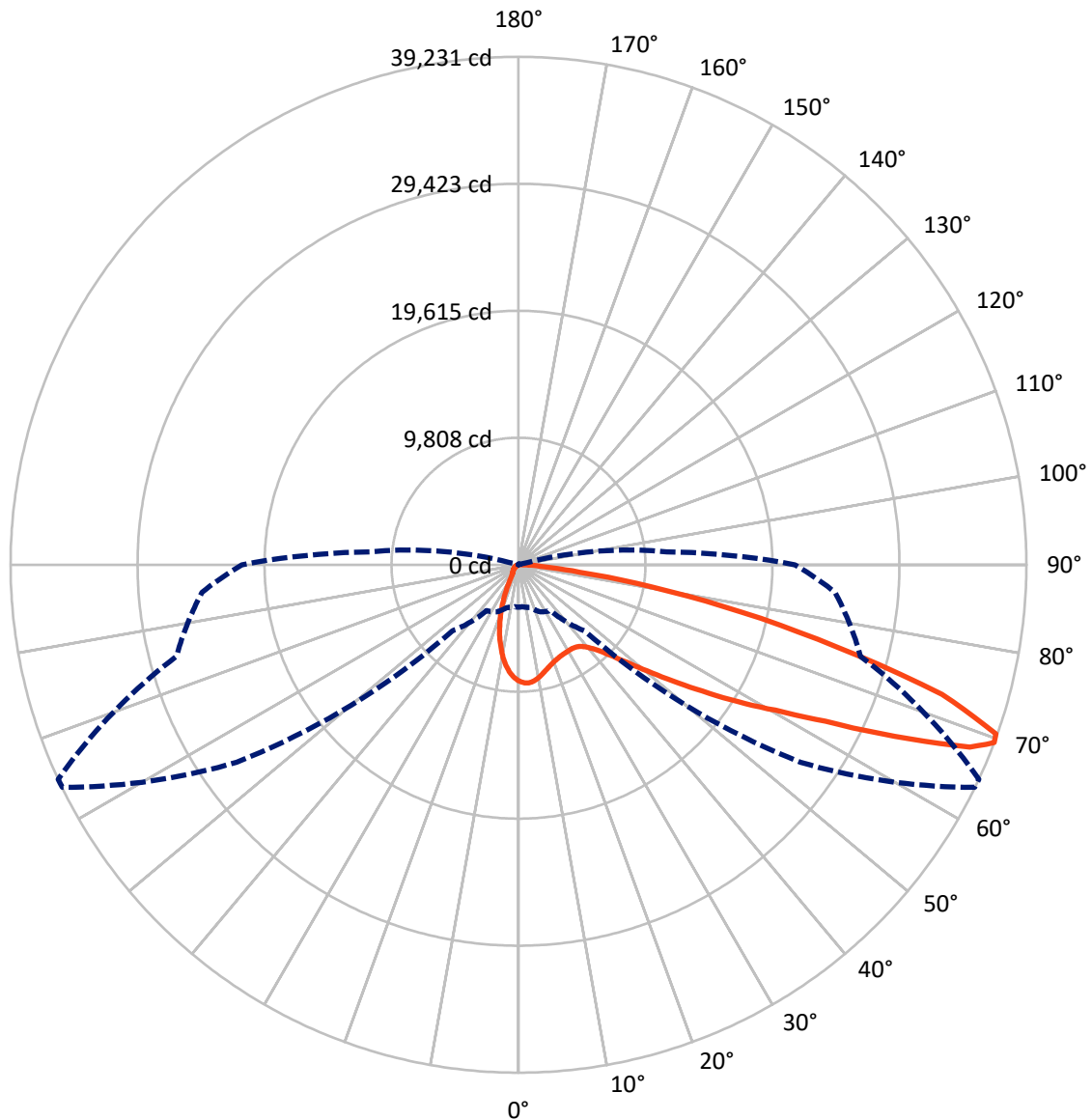
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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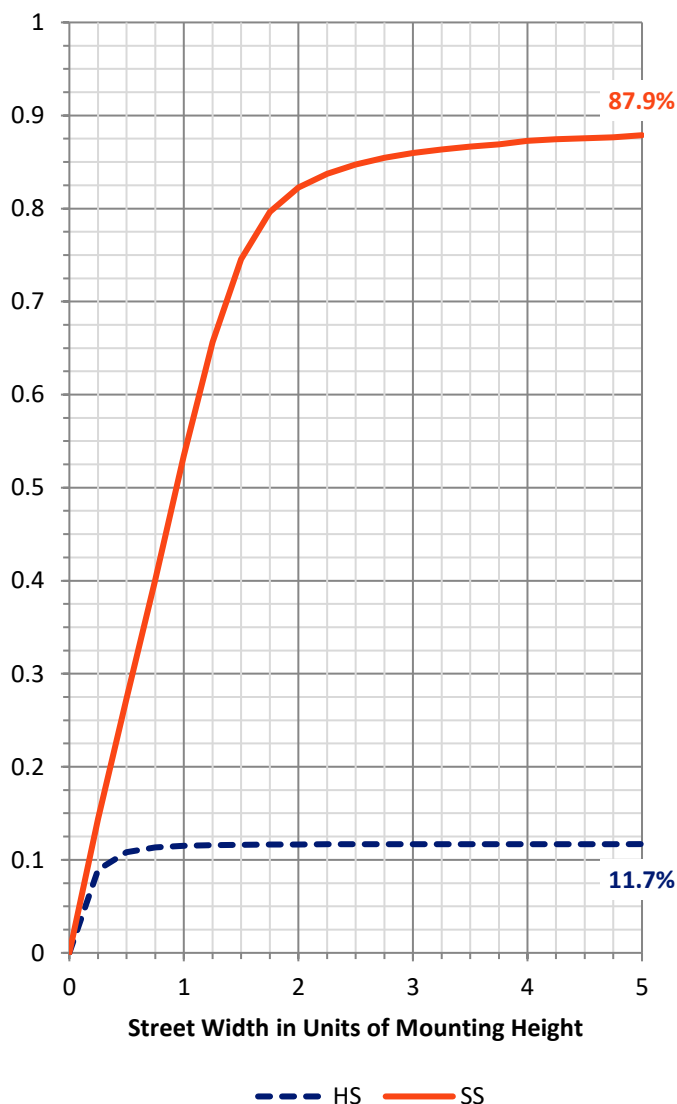
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4195.4	0.0	4195.4
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	31396.2	0.0	31396.2
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	35591.7	0.0	35591.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	752.1	2.1
10°-20°	1646.4	4.6
20°-30°	2280.3	6.4
30°-40°	3179.4	8.9
40°-50°	4941.9	13.9
50°-60°	7933.6	22.3
60°-70°	8974.2	25.2
70°-80°	5270.7	14.8
80°-90°	613.1	1.7
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°	35591.7	100.0
0°-180°	35591.7	100.0

**Coefficient of Utilization**

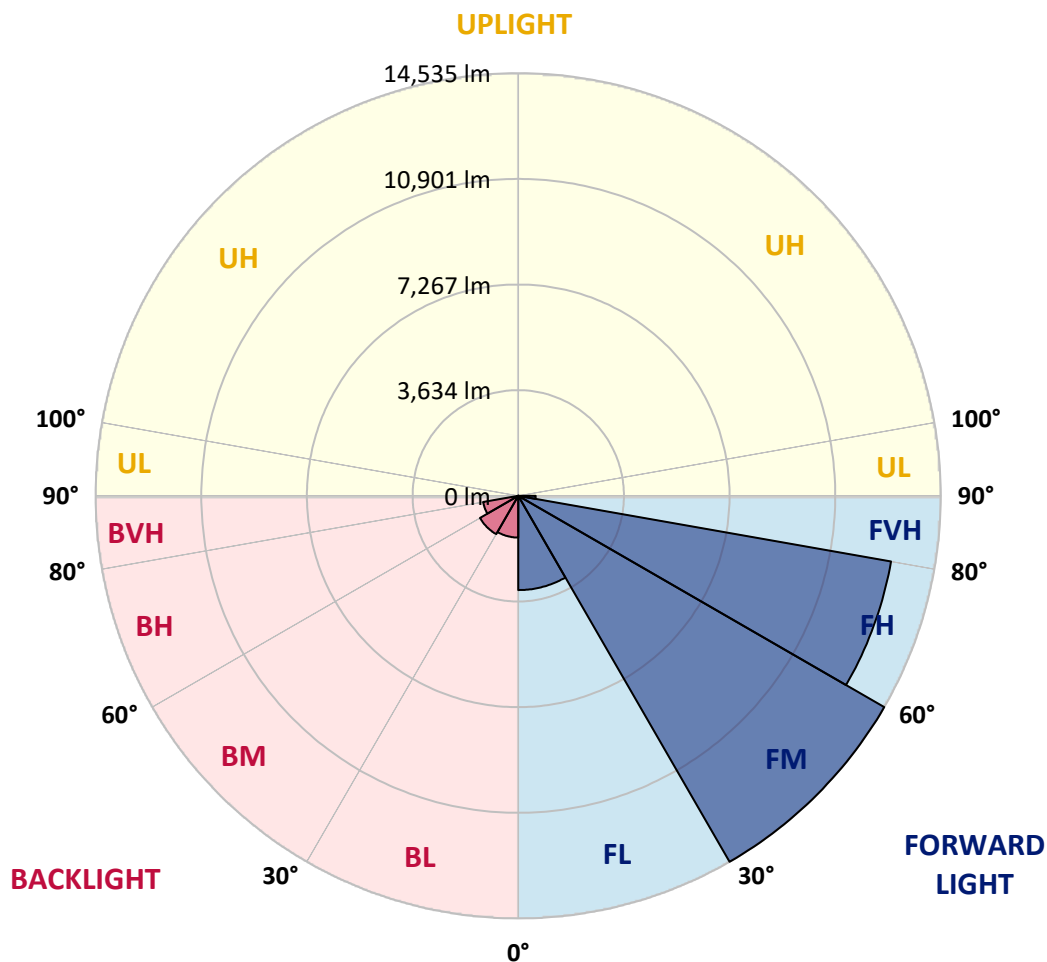


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3243.2	9.1			
FM (30°-60°)	14534.6	40.8			
FH (60°-80°)	13019.1	36.6			G5
FVH (80°-90°)	599.3	1.7			G4/750
BL (0°-30°)	1435.5	4.0	B3/2500		
BM (30°-60°)	1520.3	4.3	B2/2500		
BH (60°-80°)	1225.8	3.4	B3/2500		G3/2500
BVH (80°-90°)	13.8	0.0			G1/100
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°	55°	64°	65°	75°	85°
0°	8994.1	8994.1	8994.1	8994.1	8994.1	8994.1	8994.1	8994.1	8994.1	8994.1	8994.1
2.5°	9073.9	9051.3	9069.4	9108.5	9128.1	9128.1	9143.1	9125.1	9131.1	9087.4	9024.2
5°	8506.1	8471.5	8521.1	8631.1	8766.7	8882.6	9054.3	9144.6	9153.7	9155.2	9081.4
7.5°	7894.7	7863.0	7936.8	8066.4	8241.0	8456.4	8756.1	9018.1	9033.2	9174.8	9120.6
10°	7397.7	7375.1	7461.0	7599.5	7804.3	8045.3	8412.7	8777.2	8820.9	9134.1	9114.5
12.5°	7003.1	6985.0	7066.3	7226.0	7435.3	7701.8	8085.9	8509.1	8567.8	9042.3	9084.5
15°	6715.4	6712.5	6780.2	6933.8	7165.7	7414.2	7807.3	8260.6	8328.4	8942.9	9079.9
17.5°	6564.8	6569.4	6619.0	6750.1	6948.9	7195.8	7572.4	8051.3	8125.1	8854.0	9102.5
20°	6549.8	6554.3	6581.4	6655.2	6816.3	7034.7	7381.1	7875.1	7951.9	8787.8	9138.7
22.5°	6682.3	6679.3	6686.8	6679.3	6769.6	6935.3	7254.6	7739.6	7828.4	8744.1	9167.3
25°	6936.9	6932.3	6929.3	6873.6	6813.3	6902.2	7201.9	7662.7	7747.0	8712.5	9183.8
27.5°	7290.8	7287.7	7283.2	7191.4	7010.6	6954.9	7207.9	7634.1	7704.9	8686.9	9180.8
30°	7756.1	7777.2	7771.2	7643.2	7361.6	7116.0	7271.2	7619.0	7680.8	8637.1	9149.2
32.5°	8302.8	8345.0	8378.1	8241.0	7888.6	7435.3	7417.3	7635.6	7680.8	8599.5	9092.0
35°	8870.6	8924.8	9046.8	8998.6	8534.7	7915.7	7668.8	7735.0	7772.6	8620.5	9064.9
37.5°	9429.3	9494.1	9759.2	9899.2	9381.2	8551.3	8060.3	7980.5	8000.0	8748.6	9095.0
40°	10078.4	10176.3	10578.5	10804.4	10391.7	9402.2	8646.2	8402.2	8409.7	9030.2	9235.0
42.5°	10930.9	11031.8	11467.0	11820.9	11530.2	10477.5	9441.3	9046.8	9039.3	9557.3	9564.9
45°	11970.0	12075.5	12525.8	12918.8	12787.8	11751.7	10459.4	9988.1	9979.0	10388.6	10189.8
47.5°	13147.8	13251.6	13653.8	14058.9	14200.4	13239.6	11756.1	11272.8	11251.6	11543.8	11155.3
50°	14158.3	14226.0	14596.5	15141.7	15780.3	15068.0	13369.1	12903.7	12881.2	13078.5	12572.4
52.5°	14525.7	14564.9	14941.5	15705.0	17298.4	17543.8	15488.1	14888.7	14872.2	14958.0	14459.5
55°	13781.8	13852.6	14314.9	15447.5	18120.7	20342.1	18162.8	17346.5	17221.5	17036.3	16432.4
57.5°	11754.6	11867.6	12364.6	13870.7	17736.7	22562.0	22093.6	20126.7	19942.9	18810.5	18036.3
60°	8807.3	8945.8	9358.5	10983.5	15686.9	23352.7	26388.8	23224.6	22810.4	20223.1	19510.7
62.5°	6043.7	6113.0	6393.1	7451.9	11552.9	22057.5	29982.2	27373.8	26617.8	21759.3	21105.6
65°	4616.0	4640.1	4754.5	5119.0	6879.6	17917.4	31411.5	32848.2	31934.1	23596.7	22760.8
67.5°	3719.9	3700.3	3858.5	4379.6	4607.0	10930.9	29744.3	38027.5	37599.8	26053.0	24426.5
69°	3280.2	3253.1	3414.2	4019.6	4326.9	7226.0	26590.7	39203.7	39230.8	27349.7	24540.9
70°	2951.8	2969.9	3129.5	3805.7	4231.9	5671.7	23578.6	38904.0	39117.9	27834.6	23854.1
72.5°	1971.4	2019.6	2340.4	3159.7	4069.3	4292.2	14236.6	33384.4	34206.7	26742.8	20465.5
75°	1111.4	1147.6	1528.7	2382.5	3834.3	4087.4	7519.6	24595.1	25390.4	22363.2	15781.8
77.5°	545.1	564.8	864.5	1537.7	3206.4	3894.6	4265.1	16706.5	17614.6	14596.5	8926.3
80°	230.5	241.0	432.2	948.8	2292.2	3716.9	3167.2	10281.8	10394.7	5718.4	2378.1
82.5°	88.9	91.9	182.2	591.9	1456.4	2897.6	2649.1	4875.1	4757.6	1076.8	542.2
85°	10.5	12.0	66.2	355.4	810.3	1490.9	2152.2	2100.9	1944.3	213.9	278.6
87.5°	0.0	0.0	4.6	108.4	241.0	698.8	1119.0	872.0	786.1	69.3	144.6
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°	8994.1	8994.1	8994.1	8994.1	8994.1	8994.1	8994.1	8994.1	8994.1	8994.1	8994.1
2.5°	8971.5	8956.5	8875.1	8757.7	8646.2	8507.6	8375.1	8295.2	8232.0	8189.9	8239.5
5°	8995.6	8929.3	8682.3	8366.0	8055.8	7706.4	7381.1	7105.5	6997.0	6876.6	6930.8
7.5°	8988.0	8863.0	8418.8	7855.5	7286.2	6697.4	6140.1	5710.9	5488.0	5269.7	5325.4
10°	8950.4	8739.6	8066.4	7232.0	6379.6	5533.2	4742.5	4141.6	3805.7	3501.5	3545.2
12.5°	8867.6	8573.9	7650.7	6518.1	5378.1	4262.1	3335.9	2566.3	2153.6	1971.4	1994.0
15°	8817.8	8412.7	7210.9	5795.3	4308.8	2968.4	2039.2	1516.6	1328.3	1268.1	1275.7
17.5°	8793.8	8257.6	6756.0	4968.4	3215.4	1890.1	1317.8	1162.7	1122.0	1111.4	1114.5
20°	8769.7	8101.0	6287.8	4150.6	2215.4	1271.1	1082.8	1037.7	1022.6	1009.1	1012.0
22.5°	8729.0	7950.4	5784.7	3322.4	1494.0	1031.6	975.9	932.2	900.6	884.0	887.0
25°	8679.3	7792.2	5271.2	2474.5	1090.4	920.2	867.5	805.7	768.1	738.0	739.5
27.5°	8599.5	7598.0	4741.0	1801.2	915.7	823.8	753.1	685.2	622.0	587.3	587.3
30°	8488.1	7378.0	4152.2	1289.2	820.8	728.9	643.0	558.7	490.9	459.3	456.4
32.5°	8364.6	7149.2	3557.3	977.4	745.5	640.1	542.2	453.3	393.1	367.5	366.0
35°	8259.1	6902.2	2963.9	819.3	670.2	554.2	447.3	372.0	323.8	302.8	301.2
37.5°	8191.4	6655.2	2385.6	731.9	602.4	474.4	375.0	307.2	272.6	256.0	254.5
40°	8180.9	6471.5	1856.9	665.7	539.2	403.6	313.3	260.6	228.9	210.8	209.3
42.5°	8317.9	6366.0	1424.7	610.0	474.4	341.9	266.6	222.9	189.8	171.7	170.2
45°	8677.8	6399.2	1096.4	560.2	409.6	289.2	225.9	185.3	155.1	141.6	138.5
47.5°	9334.5	6628.1	872.0	510.6	347.9	245.5	192.7	153.6	128.0	114.5	113.0
50°	10503.1	7165.7	728.9	456.4	290.6	209.3	159.7	125.0	104.0	91.9	90.4
52.5°	12054.3	8123.6	650.6	403.6	241.0	177.7	131.1	99.4	81.3	72.3	70.8
55°	13765.2	9283.2	599.4	346.3	197.3	147.6	104.0	78.3	63.3	55.7	52.7
57.5°	15435.4	10287.7	551.2	290.6	164.1	120.4	82.8	61.8	49.7	42.2	40.7
60°	16970.1	11211.0	495.5	233.4	134.0	94.9	64.7	48.2	39.1	31.7	31.7
62.5°	18613.2	11924.8	418.6	182.2	109.9	72.3	52.7	43.7	31.7	27.1	25.6
65°	20354.1	12455.0	328.3	141.6	85.9	54.2	43.7	45.2	25.6	19.6	18.1
67.5°	21640.3	12349.5	242.5	111.4	66.2	42.2	42.2	48.2	22.6	15.1	13.6
69°	21357.1	11492.6	203.4	96.4	57.2	36.1	39.1	48.2	21.1	13.6	12.0
70°	20536.3	10543.8	179.2	85.9	51.2	33.2	37.6	46.7	19.6	13.6	12.0
72.5°	17102.6	7941.4	140.1	64.7	40.7	27.1	31.7	40.7	19.6	13.6	10.5
75°	12864.6	5082.9	106.9	46.7	30.1	21.1	24.1	30.1	19.6	12.0	10.5
77.5°	7000.1	1832.8	76.9	31.7	21.1	16.6	16.6	22.6	18.1	9.0	6.1
80°	1799.7	460.8	48.2	21.1	16.6	12.0	10.5	15.1	10.5	1.5	0.0
82.5°	444.3	104.0	25.6	15.1	12.0	4.6	4.6	7.5	4.6	0.0	0.0
85°	244.0	51.2	16.6	10.5	6.1	0.0	0.0	1.5	0.0	0.0	0.0
87.5°	125.0	15.1	4.6	3.0	1.5	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)