

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: P269479

Luminaire Tested: **GLEON-AF-07-LED-E1-SL3-7027-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269479  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-07-LED-E1-SL3-7027-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34281.2 lumens  
Efficiency: N/A  
Efficacy: 76.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B2 - 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: 25 FT

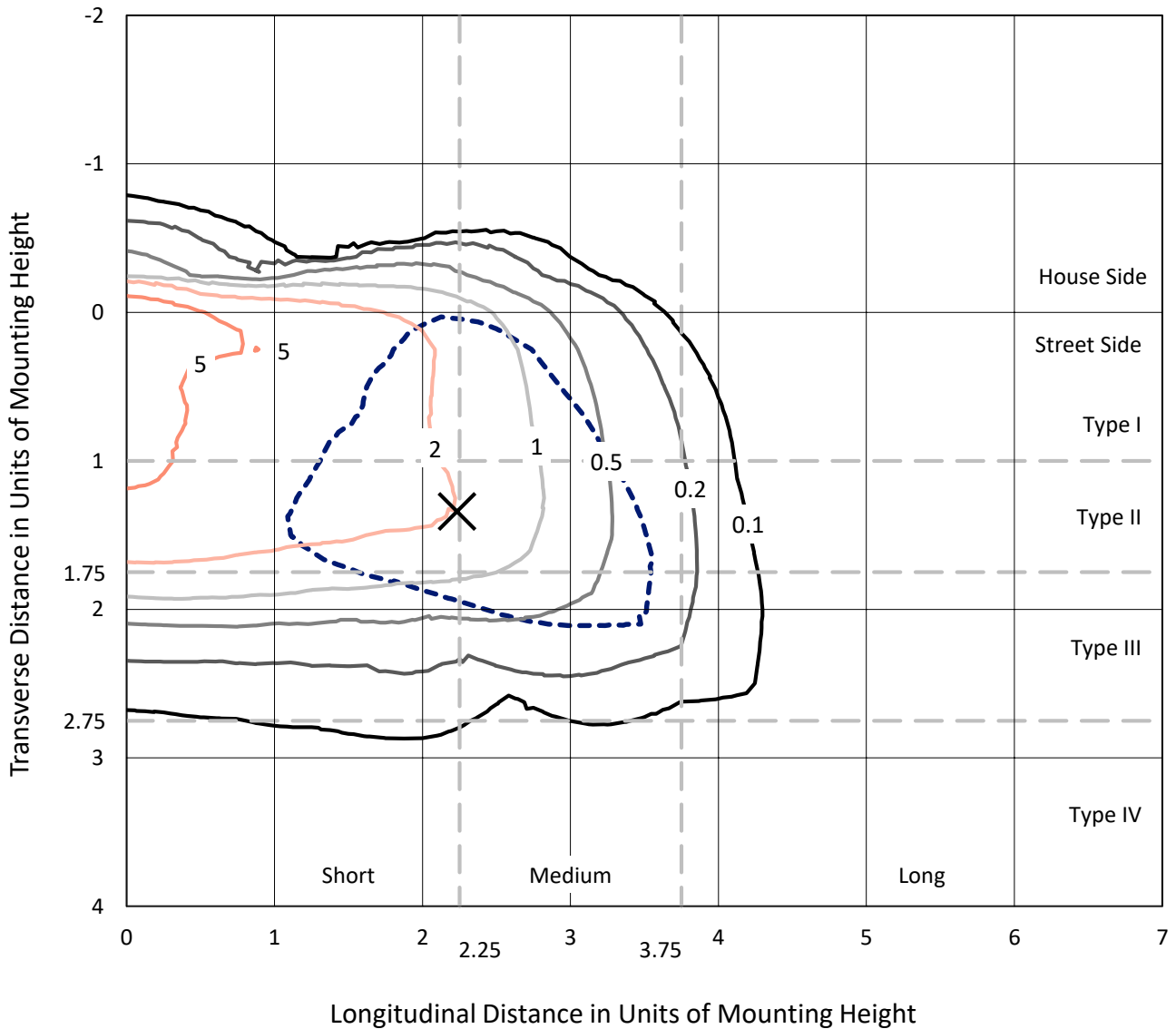


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

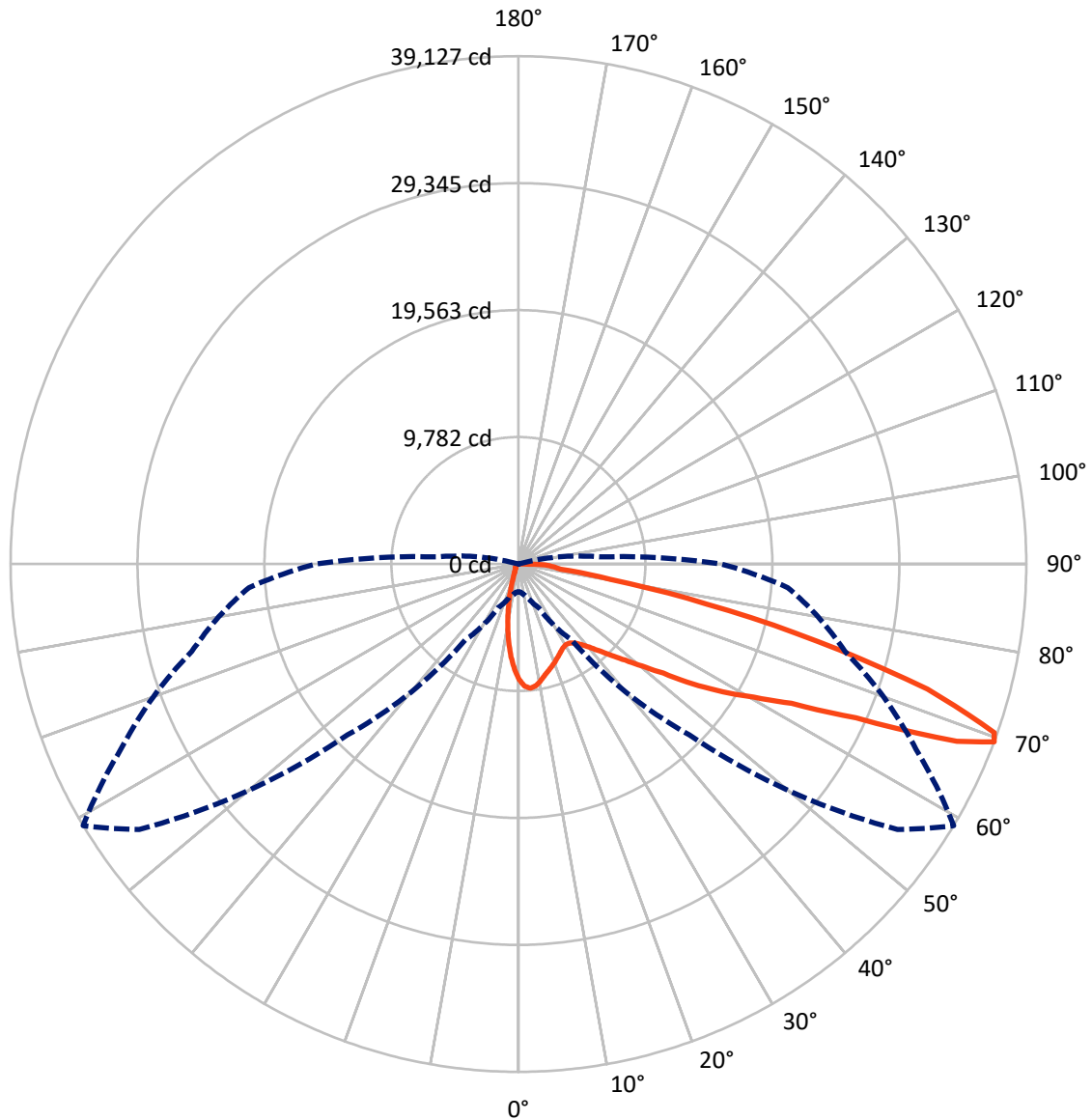


Based on 30 foot mounting height. Maximum calculated value = 10 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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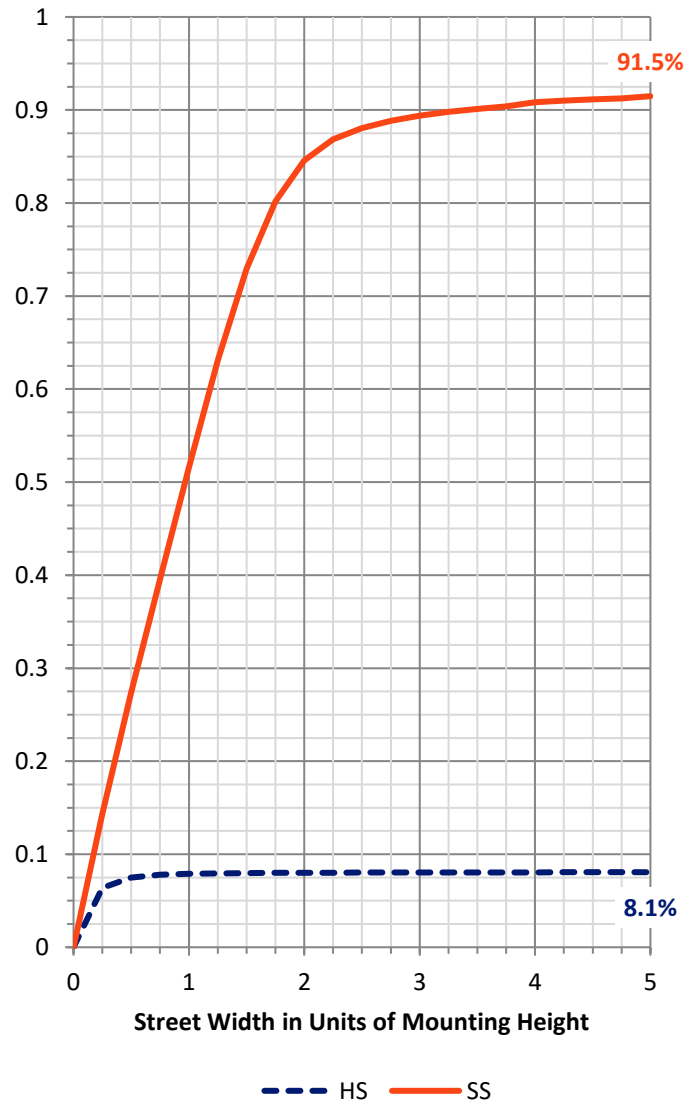
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2791.8	0.0	2791.8
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	31489.4	0.0	31489.4
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	34281.2	0.0	34281.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	724.3	2.1
10°-20°	1496.6	4.4
20°-30°	2013.8	5.9
30°-40°	2923.9	8.5
40°-50°	4868.5	14.2
50°-60°	7594.8	22.2
60°-70°	9398.1	27.4
70°-80°	4762.8	13.9
80°-90°	498.4	1.5
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°	34281.2	100.0
0°-180°	34281.2	100.0



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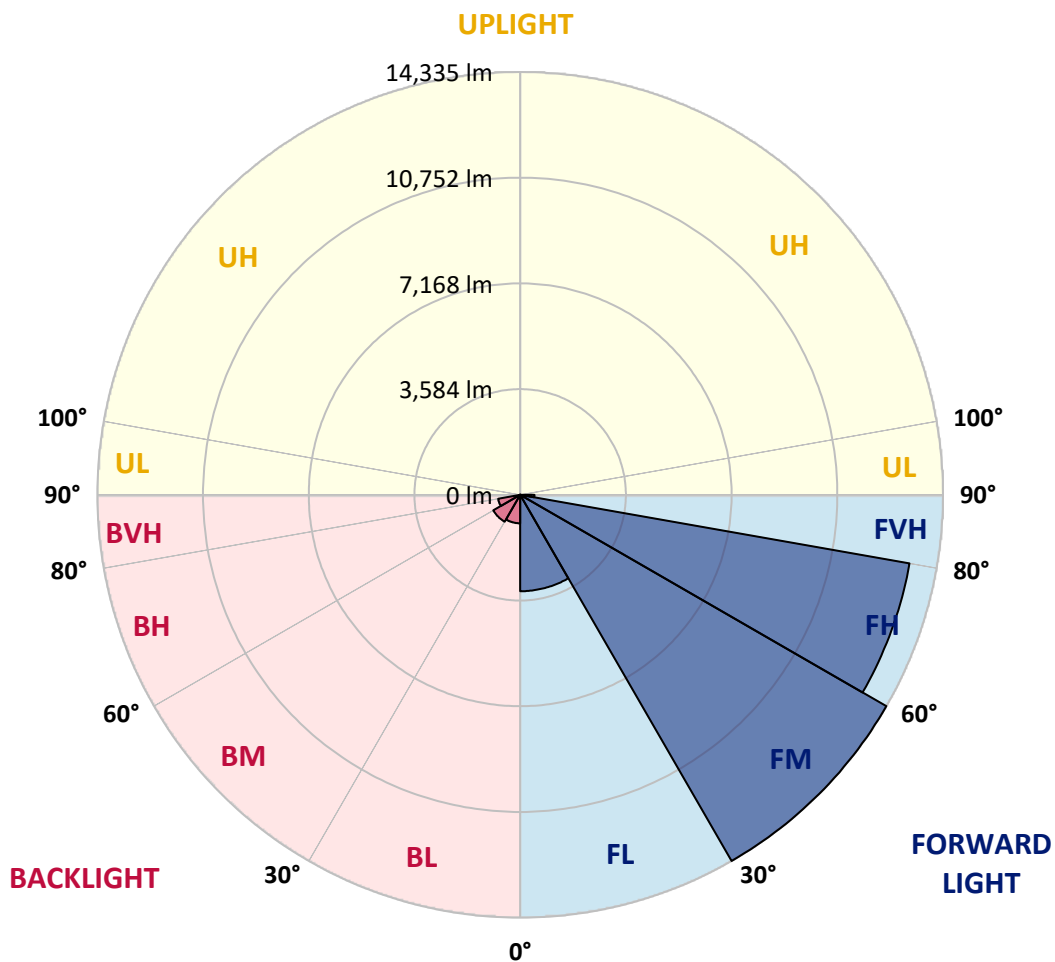
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3268.3	9.5			
FM	(30°-60°)	14335.4	41.8			
FH	(60°-80°)	13402.7	39.1			G5
FVH	(80°-90°)	483.0	1.4			G3/500
BL	(0°-30°)	966.3	2.8	B2/1000		
BM	(30°-60°)	1051.9	3.1	B2/2500		
BH	(60°-80°)	758.2	2.2	B2/1000		G2/1000
BVH	(80°-90°)	15.3	0.0			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	8923.0	8923.0	8923.0	8923.0	8923.0	8923.0	8923.0	8923.0	8923.0	8923.0	8923.0
2.5°	9779.8	9775.9	9733.2	9713.8	9679.0	9605.2	9491.0	9430.8	9333.8	9165.2	8938.5
5°	9690.6	9737.1	9762.3	9764.2	9789.4	9762.3	9659.6	9609.2	9475.4	9204.0	8796.9
7.5°	9085.7	9103.2	9174.8	9236.9	9357.1	9471.5	9508.3	9487.0	9407.5	9116.8	8575.8
10°	8438.3	8455.7	8541.1	8622.4	8785.2	8961.8	9147.8	9186.5	9219.6	8992.8	8362.7
12.5°	7880.0	7897.4	7984.7	8091.4	8281.3	8498.3	8787.2	8851.2	8996.5	8874.4	8192.2
15°	7399.2	7407.1	7492.4	7624.2	7850.9	8130.1	8457.7	8560.4	8783.4	8791.2	8042.9
17.5°	6990.3	7009.7	7061.9	7188.0	7436.1	7781.2	8163.0	8310.4	8572.0	8721.4	7897.4
20°	6740.2	6759.6	6757.6	6827.4	7050.3	7418.7	7868.3	8044.9	8362.7	8649.6	7767.6
22.5°	6691.7	6691.7	6641.3	6631.6	6763.3	7071.6	7562.1	7777.3	8174.7	8618.6	7676.5
25°	6864.2	6856.5	6730.6	6627.8	6633.5	6817.6	7265.5	7521.4	8015.7	8639.9	7628.0
27.5°	7228.8	7219.0	7060.0	6864.2	6707.3	6705.3	7040.6	7315.8	7889.8	8740.7	7647.5
30°	7732.7	7728.7	7556.3	7310.0	7025.1	6763.3	6963.1	7213.2	7808.2	8923.0	7691.9
32.5°	8283.2	8277.4	8147.4	7887.7	7527.2	7025.1	7044.5	7253.9	7831.6	9165.2	7800.5
35°	8866.7	8857.0	8800.8	8574.1	8176.6	7507.9	7312.1	7474.8	7978.8	9527.8	8013.8
37.5°	9498.7	9508.3	9549.1	9332.0	8915.1	8184.4	7759.7	7870.3	8275.5	10020.1	8360.7
40°	10431.1	10429.1	10442.6	10157.8	9756.5	9012.1	8385.9	8420.8	8771.7	10673.4	8888.0
42.5°	12123.3	12005.0	11646.5	11065.0	10661.8	9958.2	9174.8	9138.1	9378.5	11481.7	9626.5
45°	14397.2	14145.3	13214.7	12100.1	11584.5	11024.3	10146.0	10027.9	10181.0	12452.9	10537.7
47.5°	16353.1	16091.5	14775.2	13178.0	12563.4	12036.1	11284.0	11070.8	11121.1	13540.4	11693.1
50°	17018.1	16890.1	15740.6	14116.1	13511.3	13309.7	12604.1	12344.4	12272.6	14798.5	13032.5
52.5°	16787.4	16777.7	16012.0	14724.8	14379.8	14627.9	14265.4	13965.0	13701.3	16124.4	14395.2
55°	16417.2	16465.7	16122.5	15257.9	15246.4	15831.6	16537.3	16287.3	15523.5	17564.7	15570.1
57.5°	15395.6	15603.0	16060.4	16266.0	16742.8	17341.8	18429.3	18576.7	17673.3	18667.8	16545.2
60°	12491.7	12947.2	14443.8	16411.3	18671.6	20164.3	20712.8	20838.9	19437.3	19584.7	17861.4
62.5°	8866.7	9332.0	11229.7	14558.1	18700.7	23872.6	24114.9	23620.7	21379.8	20943.5	20131.3
65°	4706.7	5065.4	6616.0	10508.6	16213.6	24733.4	30064.3	28591.0	24807.0	23616.8	23064.3
67.5°	2407.5	2516.2	3132.6	5142.8	11146.3	21968.9	35397.1	36434.1	30713.6	26268.6	22922.8
69°	2130.4	2194.4	2603.4	3718.1	7137.6	18607.8	35656.9	39126.7	33805.6	26047.7	20831.2
70°	2062.6	2118.8	2491.0	3365.2	5579.1	15604.9	34662.3	38890.2	34596.5	25206.4	19268.7
72.5°	1750.4	1798.9	2217.6	2973.7	4534.1	7746.3	28156.7	32954.5	31045.1	20997.8	13947.5
75°	1170.9	1329.9	2128.4	2787.6	4218.3	4400.3	18563.0	23814.4	22122.2	14162.7	7265.5
77.5°	281.1	302.4	601.0	2217.6	3857.6	3873.1	9547.1	14804.3	12074.8	5047.8	1717.5
80°	151.3	145.3	168.6	440.0	3592.1	3634.7	4297.6	7186.0	4311.2	837.4	566.0
82.5°	106.5	100.8	108.5	184.2	1130.2	3311.0	3109.4	3252.9	1787.3	321.9	254.0
85°	38.7	36.8	60.0	166.7	354.7	1903.6	3194.6	2682.9	1448.1	147.3	186.0
87.5°	13.6	11.7	23.3	91.1	108.5	810.4	1971.5	2027.7	570.0	89.2	87.2
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°	8923.0	8923.0	8923.0	8923.0	8923.0	8923.0	8923.0	8923.0	8923.0	8923.0	8923.0
2.5°	8843.5	8723.3	8502.3	8275.5	8066.2	7814.0	7688.1	7564.0	7511.6	7492.4	7401.1
5°	8587.5	8384.1	7914.8	7443.9	7009.7	6548.3	6243.8	5999.7	5856.2	5786.4	5675.9
7.5°	8259.9	7926.6	7215.0	6488.2	5811.7	5144.9	4650.4	4270.5	4008.9	3882.8	3768.4
10°	7942.0	7498.2	6486.2	5495.7	4576.9	3692.8	3010.5	2516.2	2200.2	2054.9	1961.8
12.5°	7657.2	7081.3	5782.6	4528.4	3374.9	2339.7	1645.8	1252.2	1056.4	988.7	955.6
15°	7403.1	6697.6	5117.6	3609.5	2285.5	1337.5	899.5	765.7	734.8	734.8	730.9
17.5°	7162.7	6321.5	4476.1	2746.8	1434.6	818.0	684.2	666.8	666.8	674.5	674.5
20°	6932.1	5962.8	3855.6	1971.5	903.3	649.5	618.4	614.5	618.4	628.0	628.0
22.5°	6734.4	5637.1	3276.1	1353.0	670.8	585.4	570.0	564.0	566.0	571.9	575.8
25°	6587.0	5362.0	2729.4	916.9	577.7	533.1	515.6	505.9	498.2	498.2	502.1
27.5°	6493.9	5129.3	2200.2	666.8	519.5	484.6	457.4	442.0	424.4	414.8	418.7
30°	6426.1	4908.2	1703.9	544.7	465.2	430.4	395.4	370.2	345.0	333.5	337.4
32.5°	6401.0	4729.9	1273.5	480.8	416.8	377.9	335.3	302.4	275.3	265.5	267.5
35°	6468.8	4588.5	932.4	434.2	377.9	329.6	281.1	244.2	222.9	217.1	219.0
37.5°	6647.1	4512.8	697.9	395.4	343.2	288.9	234.5	199.7	186.0	186.0	188.0
40°	6984.4	4510.8	560.3	368.3	312.2	250.1	193.9	168.6	160.8	164.7	166.7
42.5°	7476.9	4613.6	488.5	343.2	284.9	213.3	160.8	143.5	141.6	145.3	147.3
45°	8149.5	4801.7	449.7	321.9	255.8	178.4	135.7	124.1	124.1	129.8	131.8
47.5°	8973.3	5077.0	416.8	300.5	226.8	149.3	116.3	108.5	110.5	116.3	118.2
50°	9965.8	5424.0	383.8	277.1	205.5	124.1	100.8	95.0	96.9	104.7	106.5
52.5°	11096.0	5891.2	356.6	255.8	178.4	102.8	85.2	81.4	85.2	93.1	95.0
55°	12065.2	6309.9	323.7	238.4	143.5	85.2	69.8	69.8	73.8	83.4	85.2
57.5°	12997.7	6747.9	294.6	205.5	112.5	67.8	58.2	60.0	65.9	75.5	77.6
60°	14366.2	7490.3	259.8	172.6	85.2	54.3	48.5	50.5	58.2	67.8	69.8
62.5°	16690.5	8620.6	224.8	143.5	65.9	42.7	38.7	42.7	52.3	64.0	65.9
65°	18788.0	9080.0	184.2	120.3	50.5	33.0	33.0	38.7	50.5	62.1	64.0
67.5°	17619.0	7643.5	143.5	95.0	38.7	25.2	27.2	36.8	48.5	62.1	64.0
69°	15581.7	6249.7	122.1	75.5	33.0	23.3	25.2	36.8	48.5	60.0	62.1
70°	13994.1	5276.6	108.5	64.0	29.0	23.3	25.2	34.9	48.5	60.0	62.1
72.5°	9372.6	2849.7	87.2	46.5	27.2	21.3	21.3	34.9	46.5	58.2	60.0
75°	4028.2	787.0	69.8	33.0	23.3	19.5	19.5	33.0	44.6	56.2	60.0
77.5°	736.6	199.7	56.2	29.0	23.3	19.5	17.4	31.0	42.7	54.3	56.2
80°	292.7	98.9	44.6	25.2	21.3	17.4	15.5	29.0	40.8	52.3	54.3
82.5°	176.3	56.2	36.8	23.3	21.3	15.5	13.6	25.2	38.7	50.5	52.3
85°	143.5	38.7	29.0	23.3	19.5	15.5	11.7	23.3	34.9	48.5	50.5
87.5°	69.8	27.2	27.2	21.3	19.5	15.5	11.7	21.3	33.0	46.5	48.5
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)