

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: P191135

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191135  
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-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 1050mA 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: 36794.5 lumens  
Efficiency: N/A  
Efficacy: 94.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

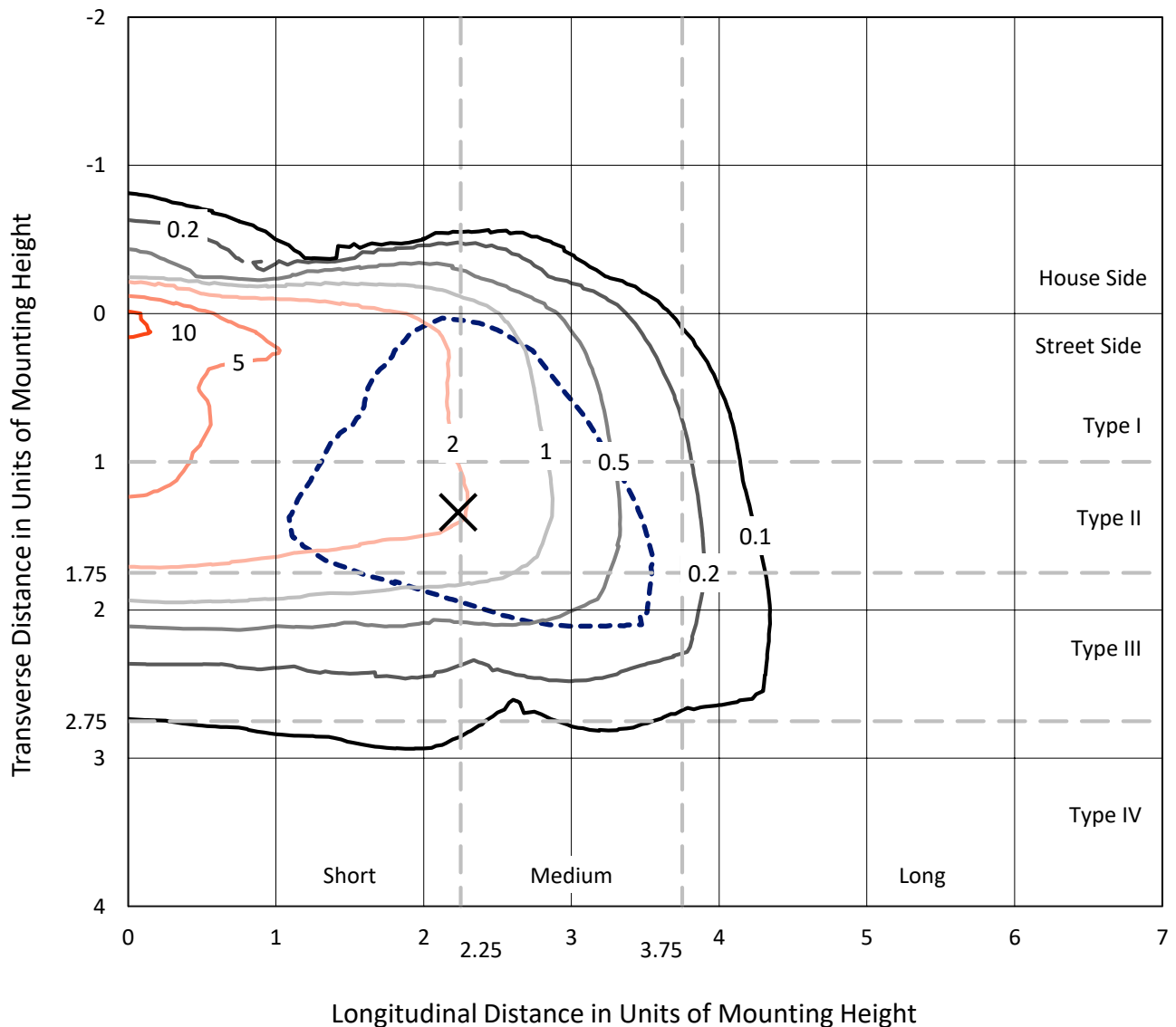
Input Watts (W): 391  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

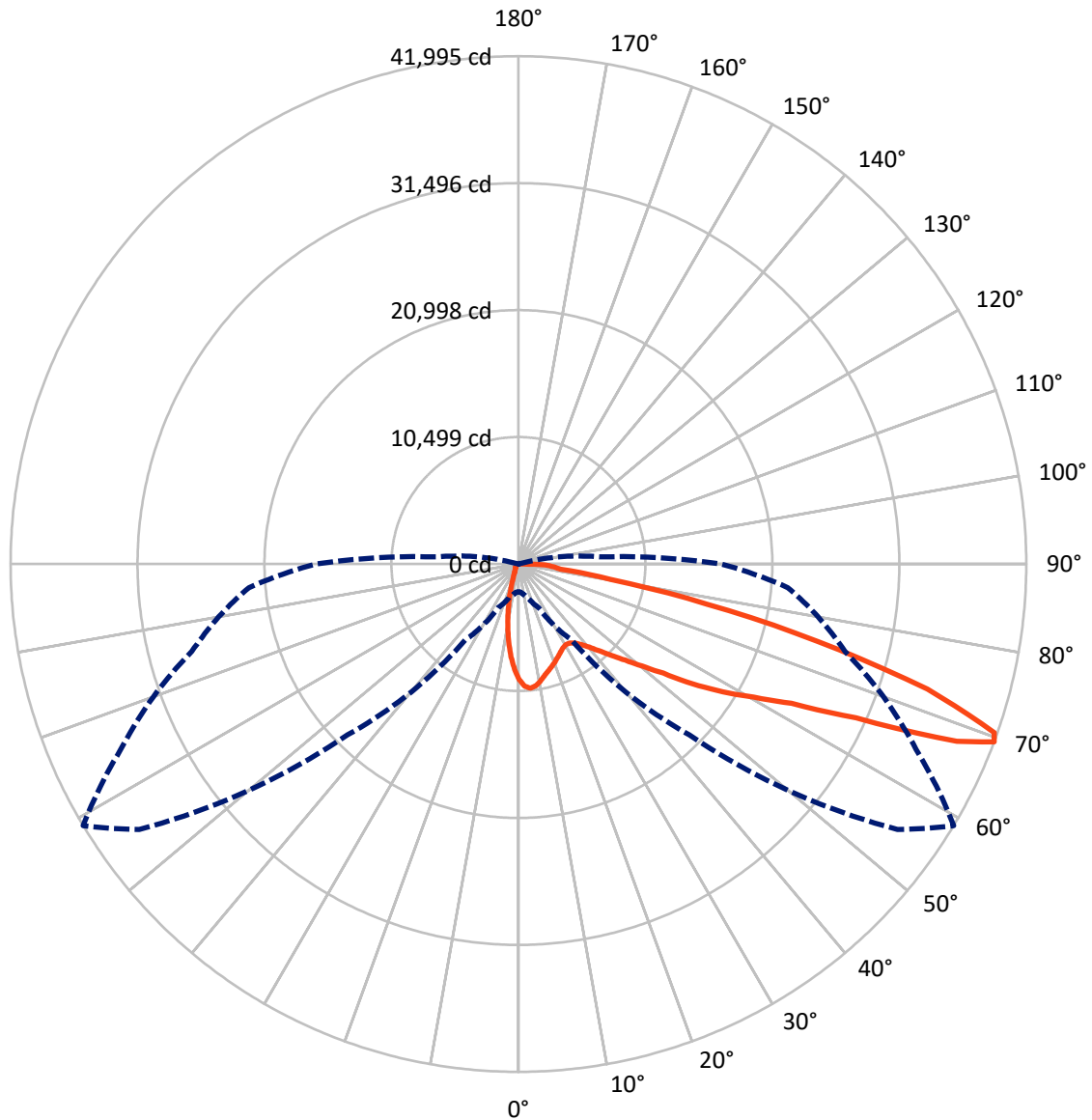


Based on 30 foot mounting height. Maximum calculated value = 10.7 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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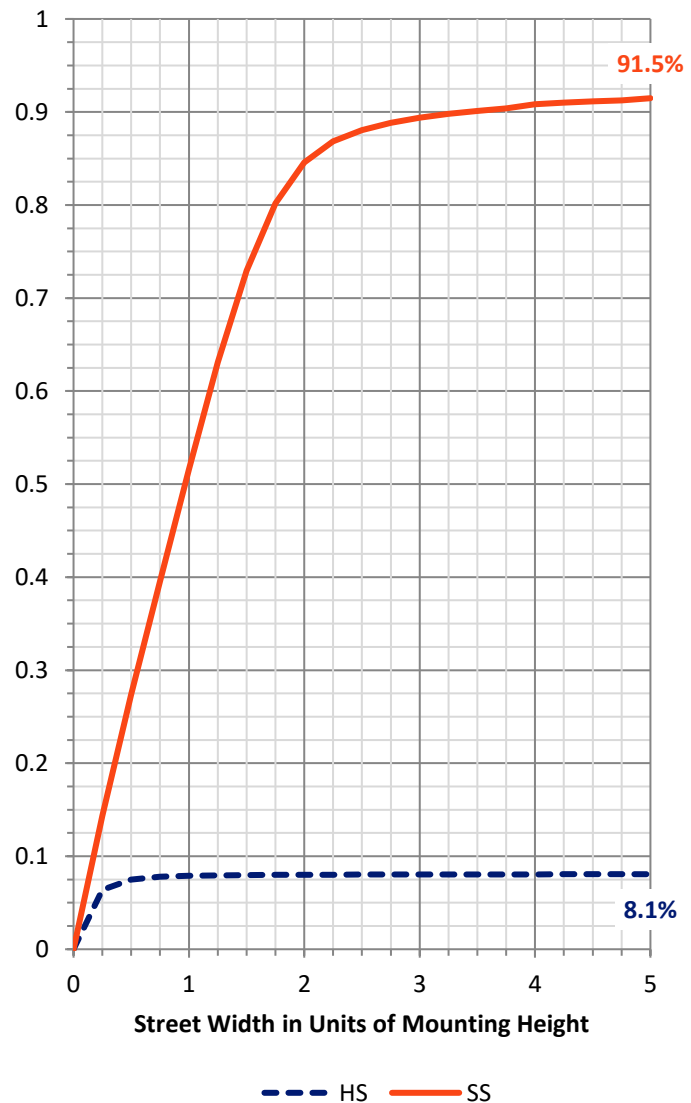
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2996.4	0.0	2996.4
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	33798.1	0.0	33798.1
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	36794.5	0.0	36794.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	777.4	2.1
10°-20°	1606.3	4.4
20°-30°	2161.5	5.9
30°-40°	3138.3	8.5
40°-50°	5225.5	14.2
50°-60°	8151.7	22.2
60°-70°	10087.1	27.4
70°-80°	5112.0	13.9
80°-90°	534.9	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°	36794.5	100.0
0°-180°	36794.5	100.0



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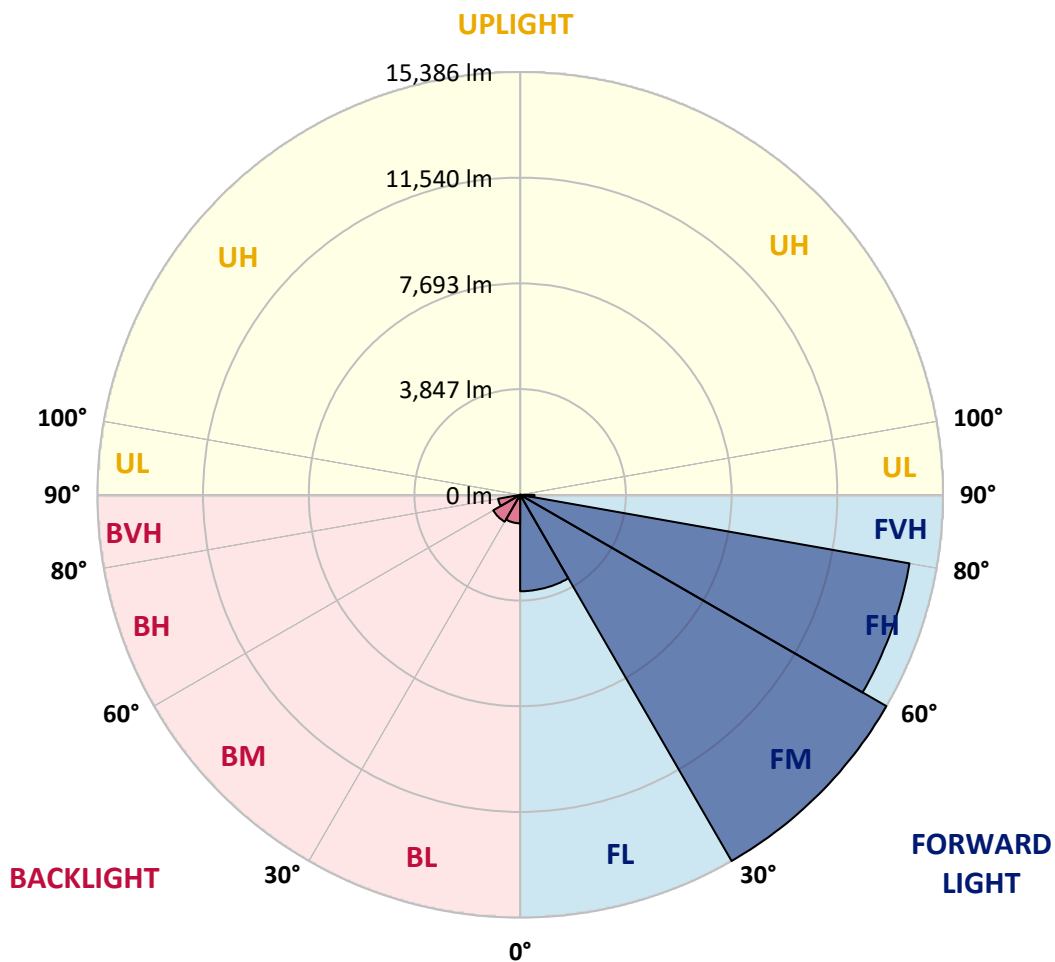
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3507.9	9.5			
FM (30°-60°)	15386.4	41.8			
FH (60°-80°)	14385.3	39.1			G5
FVH (80°-90°)	518.4	1.4			G4/750
BL (0°-30°)	1037.2	2.8	B3/2500		
BM (30°-60°)	1129.1	3.1	B2/2500		
BH (60°-80°)	813.8	2.2	B2/1000		G2/1000
BVH (80°-90°)	16.5	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 Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	9577.1	9577.1	9577.1	9577.1	9577.1	9577.1	9577.1	9577.1	9577.1	9577.1	9577.1
2.5°	10496.7	10492.6	10446.8	10426.0	10388.6	10309.5	10186.7	10122.2	10018.2	9837.2	9593.7
5°	10401.1	10451.0	10478.0	10480.1	10507.1	10478.0	10367.7	10313.6	10170.1	9878.8	9441.8
7.5°	9751.9	9770.6	9847.5	9914.1	10043.1	10165.9	10205.5	10182.6	10097.2	9785.1	9204.7
10°	9056.9	9075.7	9167.2	9254.6	9429.4	9618.7	9818.5	9860.0	9895.4	9652.1	8975.8
12.5°	8457.8	8476.5	8570.1	8684.5	8888.4	9121.4	9431.5	9500.1	9656.1	9525.1	8792.7
15°	7941.8	7950.1	8041.6	8183.1	8426.6	8726.2	9077.8	9188.0	9427.3	9435.6	8632.5
17.5°	7502.7	7523.5	7579.7	7715.0	7981.3	8351.6	8761.5	8919.6	9200.5	9360.7	8476.5
20°	7234.3	7255.2	7253.0	7327.9	7567.2	7962.5	8445.3	8634.6	8975.8	9283.7	8337.0
22.5°	7182.3	7182.3	7128.2	7117.8	7259.3	7590.1	8116.5	8347.5	8774.0	9250.4	8239.3
25°	7367.5	7359.2	7223.9	7113.6	7119.8	7317.6	7798.2	8072.8	8603.3	9273.4	8187.3
27.5°	7758.7	7748.2	7577.6	7367.5	7198.9	7196.9	7556.8	7852.3	8468.1	9381.5	8208.1
30°	8299.6	8295.4	8110.3	7846.0	7540.2	7259.3	7473.6	7742.0	8380.7	9577.1	8255.9
32.5°	8890.5	8884.2	8744.9	8466.0	8079.1	7540.2	7560.9	7785.7	8405.7	9837.2	8372.4
35°	9516.7	9506.4	9446.0	9202.6	8776.1	8058.3	7848.1	8022.9	8563.8	10226.2	8601.3
37.5°	10195.0	10205.5	10249.1	10016.1	9568.8	8784.4	8328.8	8447.3	8882.2	10754.7	8973.7
40°	11195.8	11193.7	11208.3	10902.5	10471.7	9672.8	9000.7	9038.2	9414.8	11455.9	9539.6
42.5°	13012.2	12885.3	12500.4	11876.2	11443.4	10688.2	9847.5	9808.1	10066.0	12323.5	10332.4
45°	15452.8	15182.3	14183.6	12987.3	12433.8	11832.5	10890.0	10763.1	10927.5	13365.9	11310.3
47.5°	17552.1	17271.2	15858.5	14144.0	13484.5	12918.5	12111.3	11882.4	11936.5	14533.2	12550.3
50°	18265.8	18128.4	16894.6	15151.1	14502.0	14285.5	13528.2	13249.4	13172.4	15883.5	13988.0
52.5°	18018.2	18007.8	17186.0	15804.4	15434.1	15700.4	15311.3	14988.8	14705.8	17306.6	15450.8
55°	17620.8	17672.8	17304.5	16376.6	16364.1	16992.4	17749.8	17481.4	16661.6	18852.5	16711.5
57.5°	16524.3	16746.9	17237.9	17458.5	17970.4	18613.2	19780.5	19938.6	18969.0	20036.4	17758.1
60°	13407.5	13896.5	15502.7	17614.6	20040.5	21642.7	22231.5	22366.7	20862.4	21020.5	19170.8
62.5°	9516.7	10016.1	12053.0	15625.5	20071.7	25622.9	25882.9	25352.4	22947.1	22479.0	21607.3
65°	5051.7	5436.7	7101.1	11279.1	17402.3	26546.7	32268.4	30687.1	26625.8	25348.2	24755.2
67.5°	2584.2	2700.7	3362.2	5519.8	11963.6	23579.7	37992.2	39105.3	32965.4	28194.5	24603.4
69°	2286.6	2355.2	2794.3	3990.6	7660.9	19971.9	38270.9	41995.3	36284.0	27957.3	22358.3
70°	2213.8	2274.1	2673.6	3611.9	5988.0	16749.0	37203.6	41741.4	37132.9	27054.3	20681.4
72.5°	1878.8	1930.8	2380.2	3191.7	4866.6	8314.1	30221.0	35370.6	33321.2	22537.3	14970.1
75°	1256.7	1427.3	2284.6	2991.9	4527.5	4723.0	19924.0	25560.5	23744.0	15201.0	7798.2
77.5°	301.7	324.6	645.0	2380.2	4140.4	4157.1	10247.1	15889.7	12960.2	5418.0	1843.5
80°	162.2	156.0	181.1	472.3	3855.4	3901.1	4612.7	7712.8	4627.3	898.9	607.5
82.5°	114.5	108.2	116.5	197.6	1213.0	3553.7	3337.3	3491.3	1918.3	345.3	272.5
85°	41.6	39.5	64.5	178.9	380.7	2043.1	3428.8	2879.6	1554.3	158.1	199.8
87.5°	14.5	12.5	25.0	97.8	116.5	869.7	2116.0	2176.3	611.7	95.7	93.6
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°	9577.1	9577.1	9577.1	9577.1	9577.1	9577.1	9577.1	9577.1	9577.1	9577.1	9577.1
2.5°	9491.8	9362.8	9125.6	8882.2	8657.4	8387.0	8251.7	8118.5	8062.4	8041.6	7943.8
5°	9217.2	8998.7	8495.2	7989.6	7523.5	7028.4	6701.7	6439.5	6285.5	6210.6	6092.1
7.5°	8865.5	8507.7	7744.0	6963.8	6237.7	5522.0	4991.4	4583.6	4302.7	4167.5	4044.7
10°	8524.4	8047.9	6961.8	5898.5	4912.3	3963.6	3231.2	2700.7	2361.5	2205.5	2105.5
12.5°	8218.5	7600.5	6206.4	4860.3	3622.4	2511.3	1766.4	1344.1	1133.9	1061.1	1025.7
15°	7945.9	7188.6	5492.8	3874.1	2453.0	1435.6	965.4	821.8	788.6	788.6	784.4
17.5°	7687.9	6784.9	4804.2	2948.2	1539.6	878.0	734.5	715.8	715.8	724.0	724.0
20°	7440.3	6400.0	4138.3	2116.0	969.6	697.0	663.7	659.6	663.7	674.1	674.1
22.5°	7228.1	6050.4	3516.3	1452.3	719.9	628.4	611.7	605.5	607.5	613.8	618.0
25°	7069.9	5755.0	2929.5	984.2	620.0	572.1	553.4	543.1	534.7	534.7	538.9
27.5°	6970.1	5505.3	2361.5	715.8	557.6	520.2	491.0	474.3	455.6	445.3	449.4
30°	6897.2	5268.1	1828.8	584.6	499.3	461.9	424.4	397.4	370.3	357.8	362.0
32.5°	6870.2	5076.7	1367.0	516.0	447.3	405.7	360.0	324.6	295.4	285.1	287.1
35°	6943.1	4924.8	1000.8	466.1	405.7	353.7	301.7	262.2	239.3	233.0	235.1
37.5°	7134.5	4843.7	749.0	424.4	368.3	310.1	251.7	214.3	199.8	199.8	201.8
40°	7496.5	4841.6	601.3	395.3	335.0	268.4	208.1	181.1	172.7	176.9	178.9
42.5°	8024.9	4951.9	524.4	368.3	305.9	228.8	172.7	154.0	151.9	156.0	158.1
45°	8746.9	5153.7	482.7	345.3	274.7	191.4	145.7	133.2	133.2	139.4	141.5
47.5°	9631.2	5449.2	447.3	322.5	243.5	160.2	124.8	116.5	118.6	124.8	126.9
50°	10696.5	5821.6	411.9	297.6	220.5	133.2	108.2	102.0	104.0	112.3	114.5
52.5°	11909.5	6323.0	382.8	274.7	191.4	110.3	91.6	87.4	91.6	99.8	102.0
55°	12949.8	6772.4	347.5	255.9	154.0	91.6	74.9	74.9	79.1	89.5	91.6
57.5°	13950.6	7242.7	316.3	220.5	120.7	72.8	62.4	64.5	70.8	81.1	83.3
60°	15419.4	8039.6	278.8	185.2	91.6	58.3	52.0	54.1	62.4	72.8	74.9
62.5°	17914.1	9252.5	241.3	154.0	70.8	45.7	41.6	45.7	56.2	68.6	70.8
65°	20165.4	9745.7	197.6	129.0	54.1	35.4	35.4	41.6	54.1	66.6	68.6
67.5°	18910.8	8203.9	154.0	102.0	41.6	27.0	29.2	39.5	52.0	66.6	68.6
69°	16724.0	6707.9	131.0	81.1	35.4	25.0	27.0	39.5	52.0	64.5	66.6
70°	15020.0	5663.5	116.5	68.6	31.2	25.0	27.0	37.4	52.0	64.5	66.6
72.5°	10059.8	3058.5	93.6	49.9	29.2	22.9	22.9	37.4	49.9	62.4	64.5
75°	4323.5	844.8	74.9	35.4	25.0	20.8	20.8	35.4	47.9	60.4	64.5
77.5°	790.6	214.3	60.4	31.2	25.0	20.8	18.7	33.2	45.7	58.3	60.4
80°	314.1	106.1	47.9	27.0	22.9	18.7	16.7	31.2	43.7	56.2	58.3
82.5°	189.3	60.4	39.5	25.0	22.9	16.7	14.5	27.0	41.6	54.1	56.2
85°	154.0	41.6	31.2	25.0	20.8	16.7	12.5	25.0	37.4	52.0	54.1
87.5°	74.9	29.2	29.2	22.9	20.8	16.7	12.5	22.9	35.4	49.9	52.0
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)