

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: P191124

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191124  
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-06-LED-E1-SL3-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 800mA 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: 25138 lumens  
Efficiency: N/A  
Efficacy: 101.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B2 - U0 - G4

Input Watts (W): 249  
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

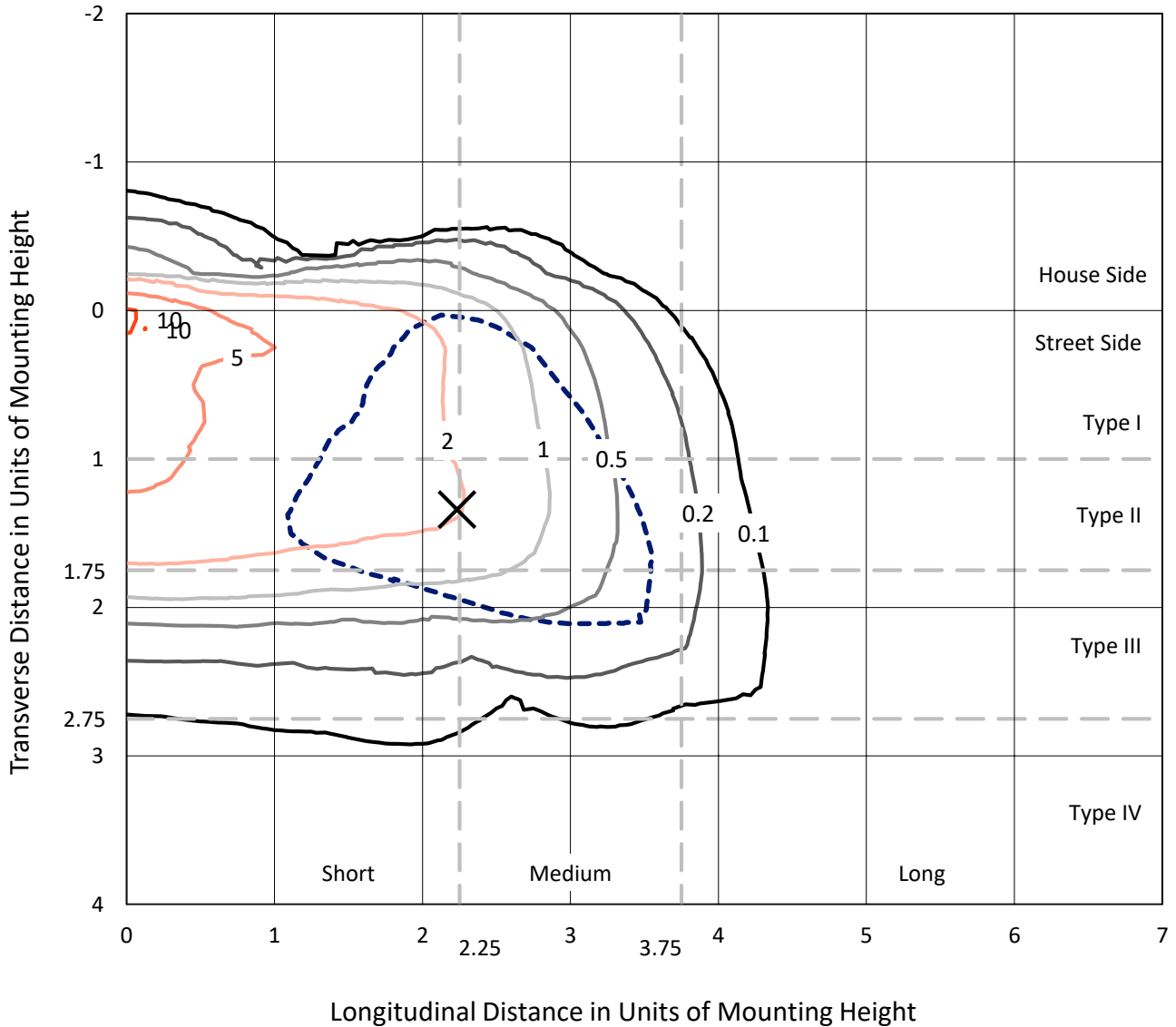


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### Iso-Footcandle Lines of Horizontal Illumination

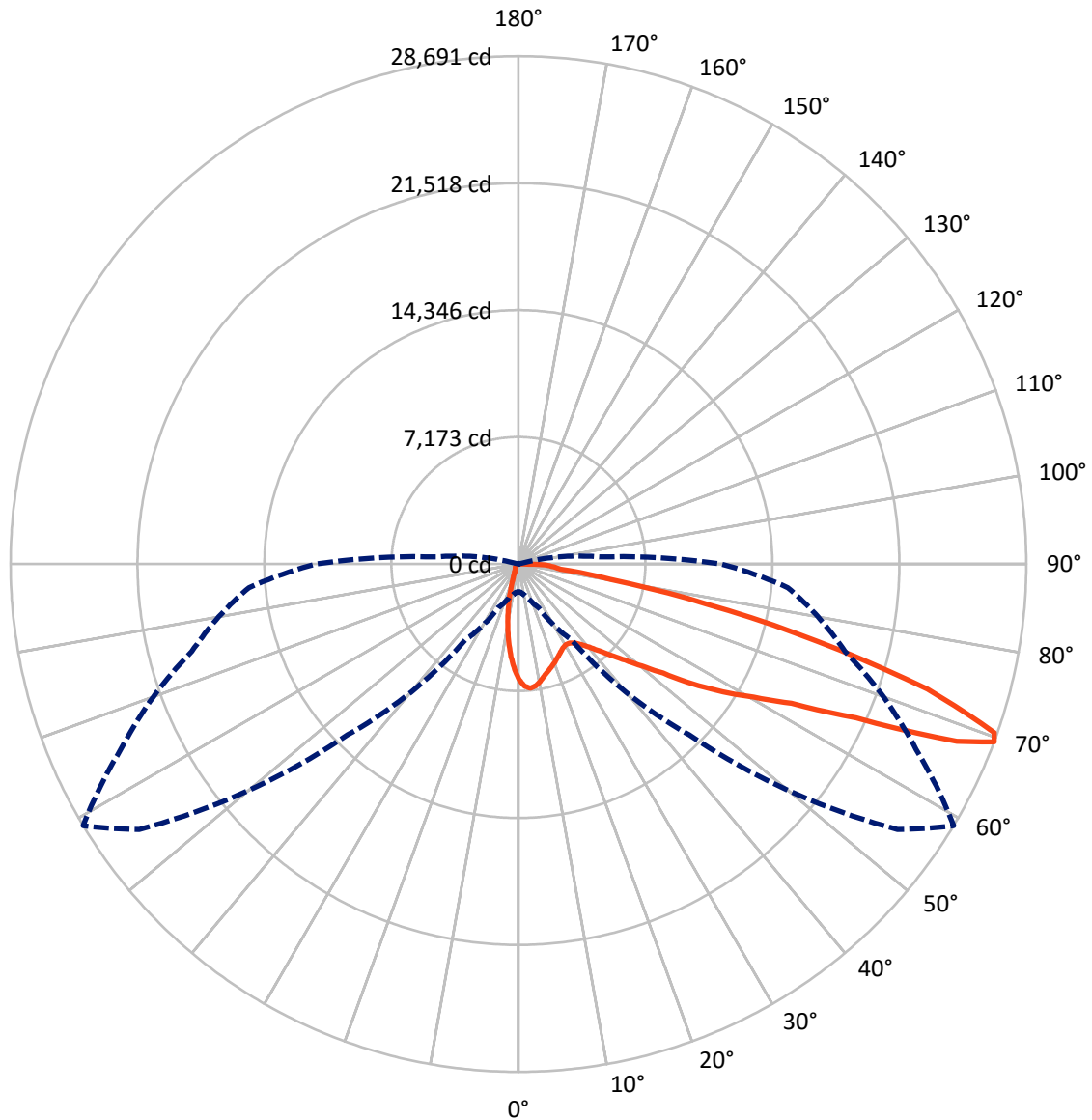
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 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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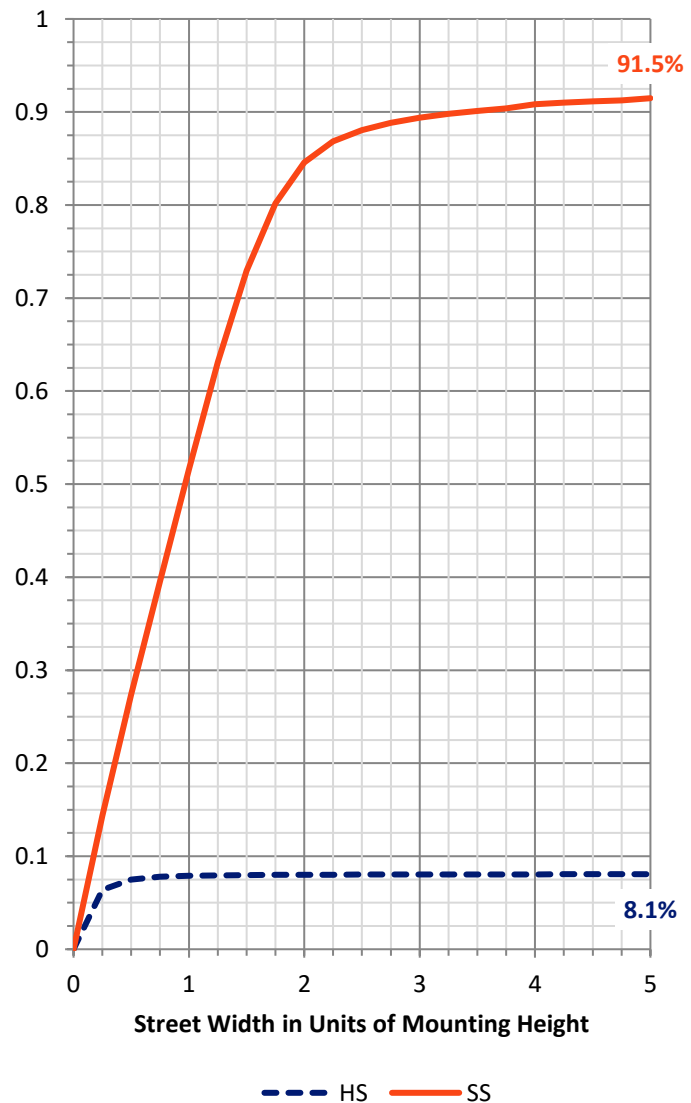
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2047.2	0.0	2047.2
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	23090.8	0.0	23090.8
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	25138.0	0.0	25138.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	531.1	2.1
10°-20°	1097.4	4.4
20°-30°	1476.7	5.9
30°-40°	2144.1	8.5
40°-50°	3570.0	14.2
50°-60°	5569.2	22.2
60°-70°	6891.5	27.4
70°-80°	3492.5	13.9
80°-90°	365.4	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°	25138.0	100.0
0°-180°	25138.0	100.0



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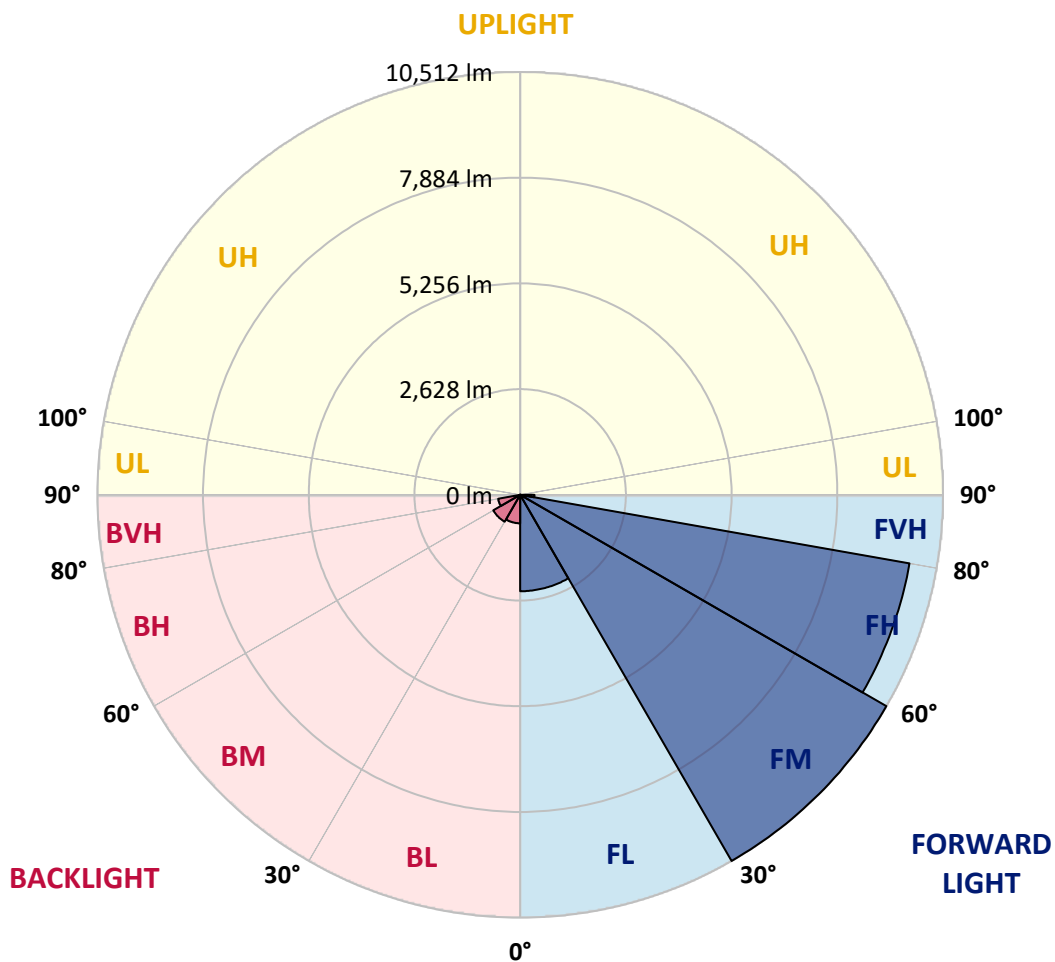
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2396.6	9.5			
FM	(30°-60°)	10512.0	41.8			
FH	(60°-80°)	9828.0	39.1			G4/12000
FVH	(80°-90°)	354.2	1.4			G3/500
BL	(0°-30°)	708.6	2.8	B2/1000		
BM	(30°-60°)	771.4	3.1	B1/1000		
BH	(60°-80°)	556.0	2.2	B2/1000		G2/1000
BVH	(80°-90°)	11.3	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-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6543.1	6543.1	6543.1	6543.1	6543.1	6543.1	6543.1	6543.1	6543.1	6543.1	6543.1
2.5°	7171.4	7168.5	7137.2	7123.0	7097.4	7043.4	6959.5	6915.5	6844.5	6720.8	6554.5
5°	7105.9	7140.1	7158.6	7160.0	7178.5	7158.6	7083.2	7046.3	6948.2	6749.2	6450.6
7.5°	6662.5	6675.3	6727.8	6773.4	6861.4	6945.3	6972.3	6956.7	6898.5	6685.2	6288.6
10°	6187.7	6200.5	6263.0	6322.8	6442.1	6571.5	6708.0	6736.4	6760.6	6594.2	6132.3
12.5°	5778.3	5791.1	5855.1	5933.2	6072.5	6231.8	6443.6	6490.5	6597.1	6507.5	6007.2
15°	5425.8	5431.5	5494.1	5590.6	5757.0	5961.7	6201.9	6277.2	6440.7	6446.4	5897.7
17.5°	5125.9	5140.0	5178.5	5270.9	5452.8	5705.8	5985.9	6093.9	6285.8	6395.3	5791.1
20°	4942.5	4956.7	4955.3	5006.4	5169.9	5440.1	5769.7	5899.2	6132.3	6342.6	5695.9
22.5°	4907.0	4907.0	4870.0	4862.9	4959.6	5185.5	5545.2	5703.0	5994.4	6319.9	5629.1
25°	5033.4	5027.8	4935.3	4860.0	4864.3	4999.4	5327.7	5515.3	5877.8	6335.5	5593.5
27.5°	5300.7	5293.6	5177.1	5033.4	4918.3	4916.9	5162.8	5364.7	5785.4	6409.5	5607.7
30°	5670.3	5667.5	5540.9	5360.4	5151.5	4959.6	5106.0	5289.4	5725.8	6543.1	5640.4
32.5°	6074.0	6069.7	5974.4	5784.0	5519.6	5151.5	5165.7	5319.1	5742.7	6720.8	5720.0
35°	6501.9	6494.7	6453.5	6287.2	5995.8	5505.4	5361.8	5481.3	5850.8	6986.5	5876.4
37.5°	6965.3	6972.3	7002.2	6843.0	6537.4	6001.4	5690.2	5771.2	6068.3	7347.7	6130.9
40°	7649.0	7647.6	7657.5	7448.5	7154.3	6608.5	6149.4	6174.9	6432.2	7826.7	6517.5
42.5°	8890.0	8803.2	8540.2	8113.8	7818.1	7302.1	6727.8	6700.8	6877.1	8419.4	7059.1
45°	10557.4	10372.5	9690.2	8872.9	8494.8	8084.0	7440.0	7353.3	7465.6	9131.6	7727.2
47.5°	11991.6	11799.7	10834.5	9663.2	9212.6	8826.0	8274.4	8118.0	8155.1	9929.1	8574.4
50°	12479.2	12385.4	11542.5	10351.2	9907.7	9759.9	9242.5	9052.0	8999.4	10851.6	9556.6
52.5°	12310.0	12302.9	11741.4	10797.6	10544.6	10726.5	10460.7	10240.4	10047.0	11823.9	10555.9
55°	12038.5	12074.1	11822.4	11188.4	11179.9	11609.3	12126.7	11943.3	11383.2	12880.1	11417.4
57.5°	11289.4	11441.5	11776.9	11927.6	12277.4	12716.6	13514.0	13622.0	12959.7	13688.8	12132.3
60°	9160.0	9494.1	10591.4	12034.2	13691.7	14786.2	15188.5	15280.9	14253.2	14361.2	13097.6
62.5°	6501.9	6843.0	8234.7	10675.3	13713.1	17505.6	17683.2	17320.7	15677.5	15357.7	14762.1
65°	3451.3	3714.3	4851.5	7705.9	11889.2	18136.7	22045.7	20965.4	18190.7	17317.8	16912.8
67.5°	1765.5	1845.1	2297.1	3771.2	8173.5	16109.6	25956.3	26716.7	22521.9	19262.5	16809.0
69°	1562.3	1609.1	1909.0	2726.4	5233.9	13644.8	26146.7	28691.1	24789.2	19100.4	15275.2
70°	1512.4	1553.7	1826.6	2467.7	4091.0	11442.9	25417.5	28517.7	25369.2	18483.5	14129.5
72.5°	1283.6	1319.1	1626.2	2180.5	3324.8	5680.2	20647.0	24165.2	22765.0	15397.5	10227.6
75°	858.6	975.2	1560.8	2044.1	3093.1	3226.8	13612.1	17462.9	16222.0	10385.3	5327.7
77.5°	206.1	221.8	440.7	1626.2	2828.8	2840.1	7000.8	10855.9	8854.4	3701.5	1259.5
80°	110.9	106.6	123.7	322.6	2634.0	2665.3	3151.4	5269.4	3161.3	614.1	415.1
82.5°	78.2	74.0	79.6	135.0	828.7	2427.9	2280.1	2385.2	1310.6	236.0	186.2
85°	28.4	27.0	44.1	122.2	260.1	1395.9	2342.6	1967.3	1061.8	108.0	136.5
87.5°	9.9	8.5	17.1	66.8	79.6	594.1	1445.6	1486.9	417.9	65.4	63.9
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°	6543.1	6543.1	6543.1	6543.1	6543.1	6543.1	6543.1	6543.1	6543.1	6543.1	6543.1
2.5°	6484.8	6396.6	6234.6	6068.3	5914.8	5730.0	5637.6	5546.6	5508.3	5494.1	5427.2
5°	6297.2	6147.9	5803.9	5458.5	5140.0	4801.7	4578.6	4399.5	4294.2	4243.1	4162.1
7.5°	6056.9	5812.4	5290.7	4757.7	4261.6	3772.6	3410.1	3131.6	2939.7	2847.2	2763.4
10°	5823.8	5498.3	4756.3	4029.9	3356.1	2708.0	2207.5	1845.1	1613.4	1506.8	1438.6
12.5°	5614.9	5192.7	4240.2	3320.6	2474.8	1715.7	1206.9	918.3	774.7	725.0	700.8
15°	5428.6	4911.2	3752.7	2646.8	1675.9	980.8	659.6	561.5	538.8	538.8	535.9
17.5°	5252.3	4635.4	3282.2	2014.2	1051.9	599.9	501.8	489.0	489.0	494.7	494.7
20°	5083.2	4372.5	2827.3	1445.6	662.4	476.2	453.5	450.6	453.5	460.5	460.5
22.5°	4938.2	4133.6	2402.3	992.2	491.8	429.3	417.9	413.7	415.1	419.3	422.2
25°	4830.2	3931.8	2001.4	672.4	423.6	390.9	378.1	371.0	365.3	365.3	368.2
27.5°	4761.9	3761.2	1613.4	489.0	380.9	355.4	335.4	324.1	311.3	304.2	307.1
30°	4712.2	3599.2	1249.4	399.5	341.2	315.6	290.0	271.5	253.0	244.5	247.3
32.5°	4693.7	3468.4	934.0	352.5	305.7	277.2	245.9	221.8	201.8	194.8	196.2
35°	4743.5	3364.7	683.7	318.4	277.2	241.6	206.1	179.1	163.5	159.2	160.6
37.5°	4874.3	3309.2	511.8	290.0	251.6	211.8	172.0	146.4	136.5	136.5	137.9
40°	5121.6	3307.8	410.8	270.1	228.8	183.4	142.2	123.7	117.9	120.8	122.2
42.5°	5482.6	3383.1	358.2	251.6	209.0	156.4	117.9	105.2	103.7	106.6	108.0
45°	5975.9	3521.0	329.8	236.0	187.6	130.7	99.5	90.9	90.9	95.2	96.7
47.5°	6580.0	3722.8	305.7	220.3	166.3	109.5	85.3	79.6	81.0	85.3	86.7
50°	7307.9	3977.3	281.4	203.3	150.7	90.9	74.0	69.7	71.1	76.7	78.2
52.5°	8136.6	4319.9	261.6	187.6	130.7	75.3	62.5	59.7	62.5	68.2	69.7
55°	8847.3	4626.9	237.4	174.8	105.2	62.5	51.1	51.1	54.0	61.2	62.5
57.5°	9531.0	4948.2	216.0	150.7	82.4	49.7	42.7	44.1	48.3	55.4	56.9
60°	10534.6	5492.6	190.5	126.5	62.5	39.8	35.5	36.9	42.7	49.7	51.1
62.5°	12239.0	6321.3	164.9	105.2	48.3	31.3	28.4	31.3	38.4	47.0	48.3
65°	13777.0	6658.2	135.0	88.2	36.9	24.1	24.1	28.4	36.9	45.5	47.0
67.5°	12919.9	5604.8	105.2	69.7	28.4	18.5	19.9	27.0	35.5	45.5	47.0
69°	11425.8	4582.8	89.5	55.4	24.1	17.1	18.5	27.0	35.5	44.1	45.5
70°	10261.6	3869.3	79.6	47.0	21.3	17.1	18.5	25.6	35.5	44.1	45.5
72.5°	6872.9	2089.6	63.9	34.2	19.9	15.7	15.7	25.6	34.2	42.7	44.1
75°	2953.9	577.1	51.1	24.1	17.1	14.2	14.2	24.1	32.7	41.2	44.1
77.5°	540.1	146.4	41.2	21.3	17.1	14.2	12.8	22.7	31.3	39.8	41.2
80°	214.6	72.5	32.7	18.5	15.7	12.8	11.4	21.3	29.9	38.4	39.8
82.5°	129.4	41.2	27.0	17.1	15.7	11.4	9.9	18.5	28.4	36.9	38.4
85°	105.2	28.4	21.3	17.1	14.2	11.4	8.5	17.1	25.6	35.5	36.9
87.5°	51.1	19.9	19.9	15.7	14.2	11.4	8.5	15.7	24.1	34.2	35.5
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)