

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: P191207

Luminaire Tested: **GLEON-AF-09-LED-E1-SL4-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191207  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-09-LED-E1-SL4-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35694.8 lumens  
Efficiency: N/A  
Efficacy: 95.4 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G5

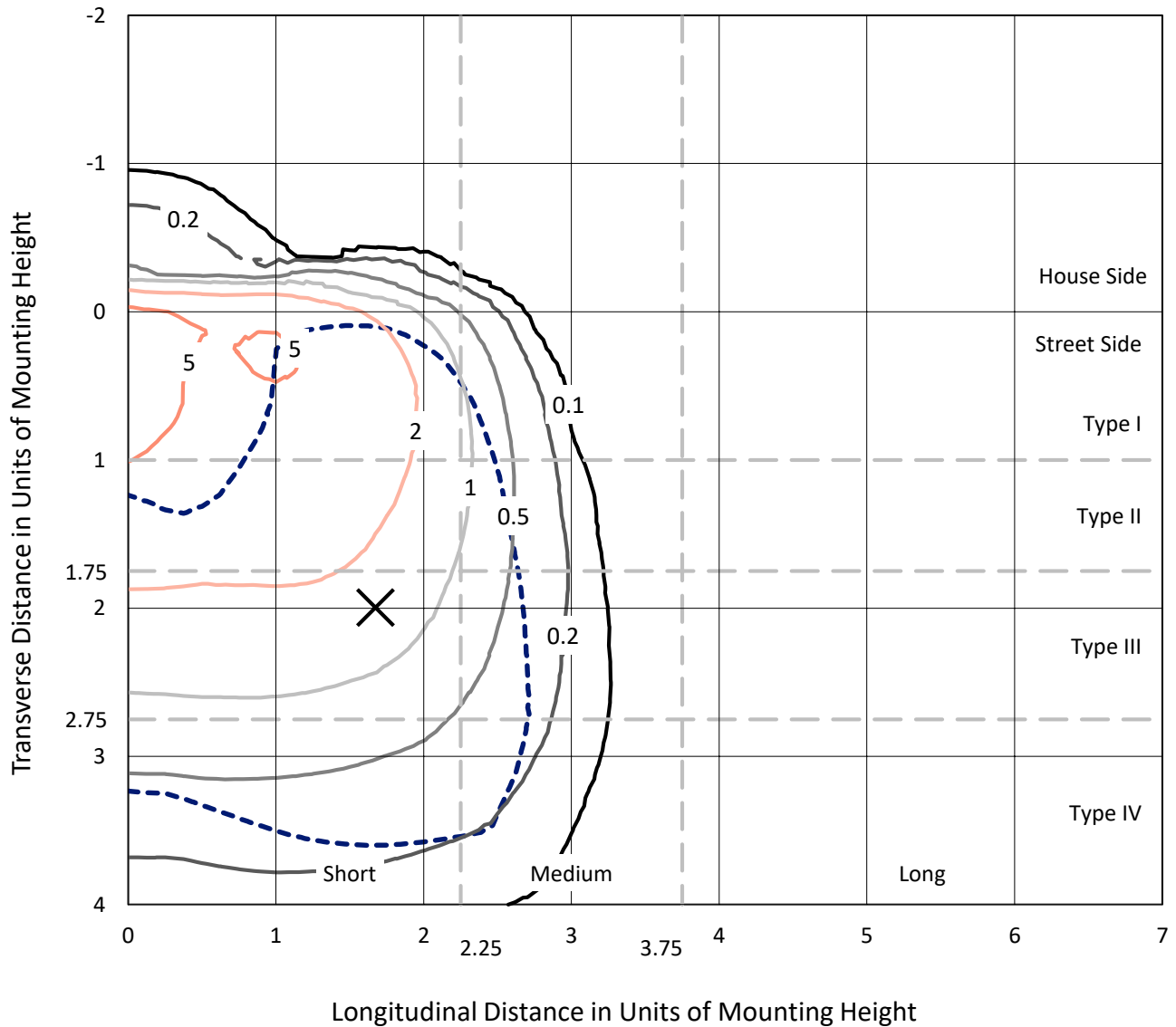
Input Watts (W): 374  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

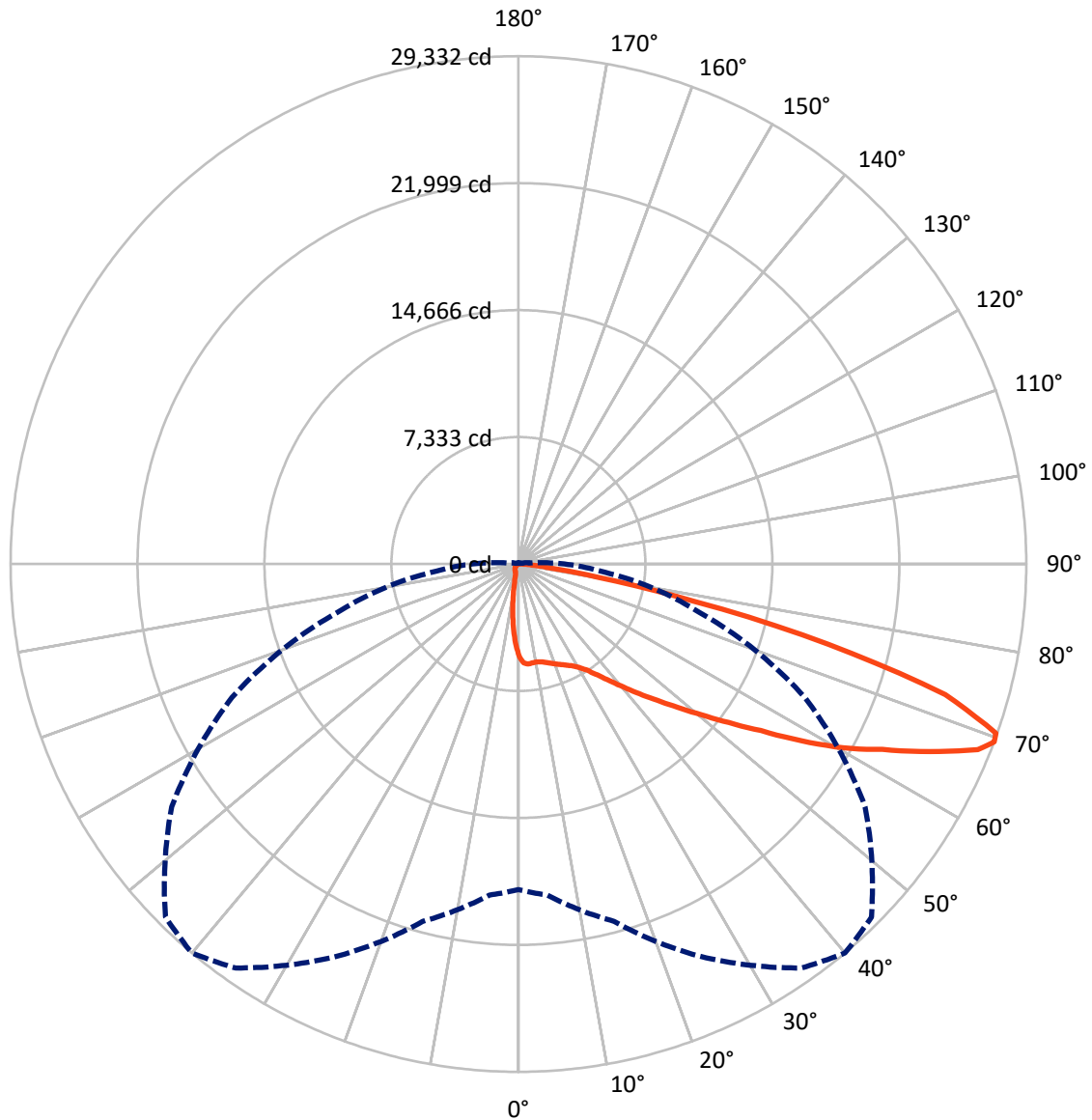
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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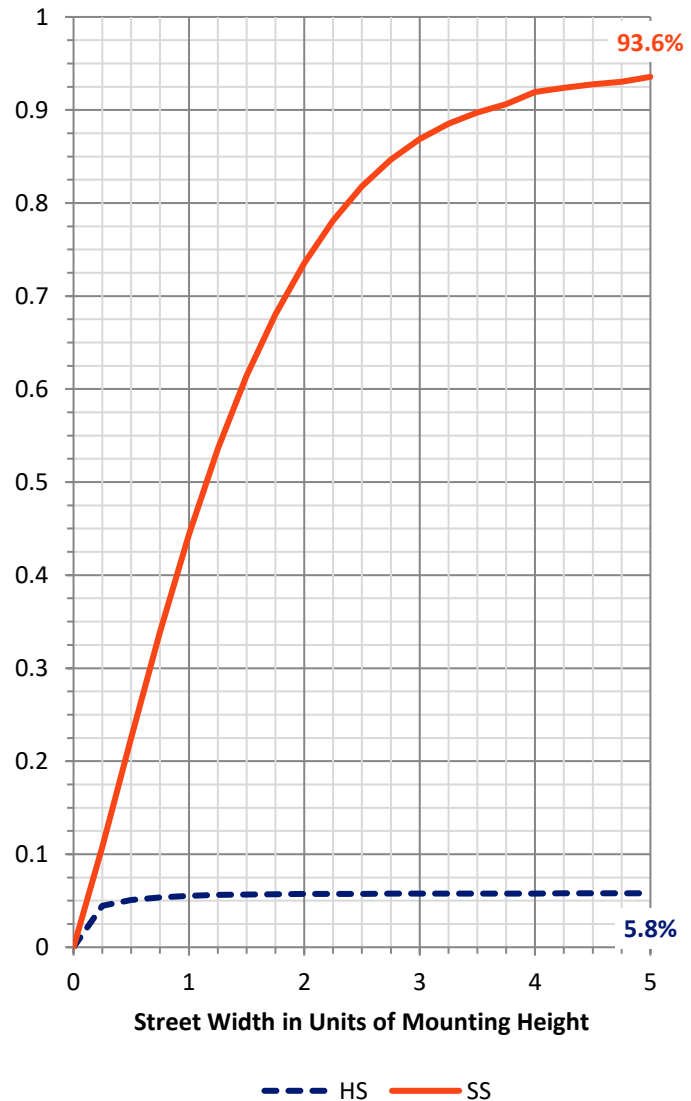
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2088.3	0.0	2088.3
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	33606.5	0.0	33606.5
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	35694.8	0.0	35694.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	432.4	1.2
10°-20°	1063.3	3.0
20°-30°	1791.1	5.0
30°-40°	2932.0	8.2
40°-50°	5076.7	14.2
50°-60°	7996.3	22.4
60°-70°	10442.8	29.3
70°-80°	5378.5	15.1
80°-90°	581.8	1.6
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°	35694.8	100.0
0°-180°	35694.8	100.0

**Coefficient of Utilization**



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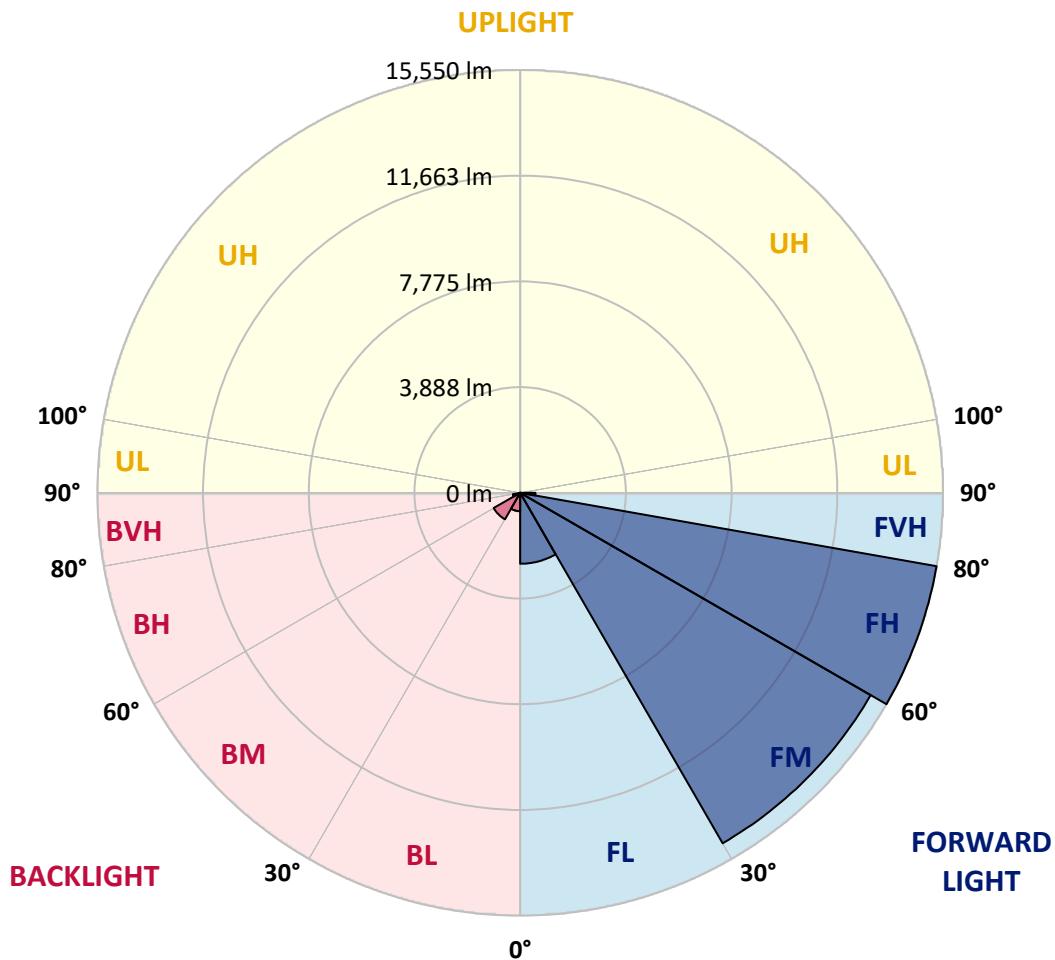
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2610.3	7.3			
FM	(30°-60°)	14882.5	41.7			
FH	(60°-80°)	15550.1	43.6			G5
FVH	(80°-90°)	563.5	1.6			G4/750
BL	(0°-30°)	676.5	1.9	B2/1000		
BM	(30°-60°)	1122.4	3.1	B2/2500		
BH	(60°-80°)	271.2	0.8	B1/500		G1/500
BVH	(80°-90°)	18.3	0.1			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°	40°	45°	55°	65°	75°	85°
0°	5332.9	5332.9	5332.9	5332.9	5332.9	5332.9	5332.9	5332.9	5332.9	5332.9	5332.9
2.5°	5855.7	5823.8	5804.6	5779.2	5747.3	5719.7	5709.1	5630.4	5556.1	5454.1	5337.2
5°	5964.0	5953.4	5919.4	5885.4	5847.2	5804.6	5781.3	5687.8	5581.6	5432.9	5228.9
7.5°	5974.6	5961.9	5919.4	5872.7	5819.6	5768.5	5728.2	5634.7	5536.9	5386.1	5137.6
10°	5957.7	5942.8	5910.9	5859.9	5794.1	5745.2	5704.8	5615.6	5532.7	5396.8	5120.5
12.5°	5938.5	5923.7	5908.8	5883.3	5825.9	5791.9	5757.9	5673.0	5598.6	5483.8	5182.2
15°	5957.7	5949.2	5966.2	5955.5	5923.7	5893.9	5859.9	5783.5	5715.4	5619.8	5294.8
17.5°	6038.4	6038.4	6091.5	6097.9	6068.1	6025.7	5976.8	5900.3	5842.9	5762.2	5428.6
20°	6227.5	6221.1	6289.1	6301.9	6229.6	6163.8	6091.5	5998.1	5953.4	5902.4	5560.4
22.5°	6552.6	6522.8	6563.2	6550.5	6408.1	6306.1	6216.9	6102.1	6078.8	6055.4	5706.9
25°	6975.4	6958.4	6986.0	6860.6	6609.9	6471.8	6365.6	6236.0	6236.0	6259.3	5872.7
27.5°	7589.4	7525.6	7432.1	7211.2	6835.2	6658.8	6544.0	6405.9	6442.1	6529.2	6091.5
30°	8218.3	8148.2	7933.6	7593.7	7109.2	6924.4	6790.6	6646.0	6731.0	6890.4	6384.7
32.5°	8838.7	8760.1	8456.3	8027.1	7502.3	7317.5	7187.9	7028.5	7170.9	7438.6	6813.9
35°	9440.0	9369.9	9019.4	8513.7	8024.9	7872.0	7753.0	7614.9	7797.6	8171.6	7419.5
37.5°	10115.7	10039.2	9612.2	9064.0	8660.3	8549.8	8462.7	8324.6	8643.3	9191.4	8263.0
40°	10946.5	10816.9	10241.1	9695.0	9395.4	9342.3	9282.8	9263.6	9758.7	10517.3	9386.9
42.5°	11898.4	11685.9	10899.7	10360.0	10202.8	10241.1	10226.1	10311.1	11154.7	12166.1	10755.2
45°	12850.2	12576.1	11632.7	11069.7	11090.9	11224.7	11307.6	11647.6	12903.3	14057.0	12227.6
47.5°	13657.5	13387.8	12336.0	11836.7	12091.7	12355.1	12580.4	13224.1	14700.8	15918.2	13372.8
50°	14348.1	14093.1	13081.8	12680.2	13253.9	13678.8	14044.3	14998.2	16634.3	17335.4	14176.0
52.5°	14913.3	14743.3	13855.2	13647.0	14581.9	15204.3	15739.7	16882.9	18346.7	18487.0	14800.7
55°	15463.5	15342.4	14685.9	14796.4	16141.3	16989.1	17666.9	18882.2	19821.3	19447.3	15399.8
57.5°	16096.7	15986.3	15633.6	16254.0	18191.6	19258.3	19997.7	20654.2	21119.5	20428.9	15965.0
60°	16742.6	16678.9	16687.4	17873.0	20545.9	21569.9	21977.9	22147.9	22394.3	21353.2	15996.9
62.5°	17358.8	17479.9	17892.1	19674.7	22800.1	23586.3	23792.4	23960.3	23671.3	21499.9	14779.4
65°	18402.0	18599.6	19583.4	22086.2	25279.7	26121.0	26333.5	25757.7	23873.1	19604.5	12021.5
67.5°	18911.9	19273.1	21028.2	24334.2	27684.8	28619.7	28541.0	25874.6	21423.4	14949.4	7714.8
69°	18805.7	19190.3	21361.8	25022.6	28483.8	29331.5	28832.2	24444.6	18251.2	10829.6	4736.0
70°	18385.0	18773.8	21189.6	24997.0	28585.6	29257.1	28292.5	22679.0	15431.7	7918.8	2961.9
72.5°	15353.1	15688.8	18812.1	22594.0	26333.5	25787.5	23669.1	15712.1	7519.3	2156.6	667.2
75°	9450.6	9637.6	13498.2	17021.0	19889.3	18487.0	15769.5	7816.8	2241.6	609.8	369.7
77.5°	4993.0	5078.0	7389.7	10032.8	12608.0	10432.3	8082.3	3048.9	1032.6	382.5	267.7
80°	2951.2	3014.9	3979.6	4587.2	5456.2	4557.5	3231.7	1871.9	739.4	240.1	237.9
82.5°	1689.1	1729.5	2885.3	2549.6	2150.2	1835.8	1608.4	1774.1	444.1	161.5	246.4
85°	620.4	628.9	1623.3	1939.8	1279.1	760.7	798.9	1470.3	119.0	102.0	193.3
87.5°	289.0	282.5	835.0	1187.7	747.9	482.3	622.6	322.9	46.7	65.9	53.1
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°	5332.9	5332.9	5332.9	5332.9	5332.9	5332.9	5332.9	5332.9	5332.9	5332.9	5332.9
2.5°	5269.2	5190.7	5048.3	4901.7	4752.9	4638.3	4525.6	4436.3	4406.7	4351.4	4355.6
5°	5107.8	4963.3	4665.9	4364.1	4049.7	3790.4	3546.2	3348.5	3252.9	3155.2	3155.2
7.5°	4967.6	4757.2	4291.9	3801.1	3293.3	2866.2	2481.7	2192.7	2033.3	1905.9	1903.7
10°	4914.5	4629.7	3979.6	3276.3	2568.7	1986.6	1529.8	1236.5	1085.8	988.0	983.8
12.5°	4937.8	4585.1	3739.5	2791.8	1903.7	1276.9	886.0	696.9	633.2	603.4	603.4
15°	5005.8	4572.4	3499.4	2318.0	1345.0	798.9	588.5	537.6	533.3	533.3	533.3
17.5°	5088.7	4576.6	3252.9	1857.0	915.7	571.5	507.8	501.5	505.6	505.6	505.6
20°	5173.7	4578.7	2987.3	1429.9	645.9	497.2	478.0	476.0	480.2	480.2	482.3
22.5°	5277.7	4589.4	2721.8	1068.7	533.3	469.5	454.7	454.7	456.8	456.8	454.7
25°	5396.8	4610.6	2445.6	792.5	486.5	450.4	437.7	435.6	437.7	435.6	433.4
27.5°	5545.4	4640.3	2137.5	620.4	465.3	431.3	420.7	420.7	418.6	416.4	414.3
30°	5732.4	4674.4	1791.1	526.9	444.1	414.3	403.7	401.6	399.5	395.2	395.2
32.5°	6017.1	4748.7	1449.0	478.0	420.7	391.0	382.5	382.5	378.2	374.0	371.8
35°	6454.8	4895.3	1143.0	448.4	395.2	365.4	354.9	354.9	350.6	348.4	346.4
37.5°	7060.4	5118.4	888.1	420.7	369.7	337.8	327.2	325.1	320.8	316.6	314.5
40°	7865.7	5394.6	699.0	395.2	344.2	310.2	301.7	297.5	289.0	282.5	282.5
42.5°	8877.0	5709.1	567.3	367.5	314.5	284.7	278.3	272.0	257.1	250.7	248.6
45°	9935.1	5991.6	480.2	335.7	284.7	259.2	254.9	244.4	225.3	218.8	218.8
47.5°	10697.8	6057.5	422.8	306.0	257.1	231.6	229.4	210.3	193.3	189.1	187.0
50°	11173.8	5927.9	376.0	276.2	231.6	206.1	199.7	176.4	165.7	161.5	159.4
52.5°	11494.6	5696.3	337.8	250.7	208.2	182.7	167.9	150.9	142.4	138.1	138.1
55°	11751.7	5369.2	299.6	227.3	189.1	163.6	142.4	129.6	121.1	116.8	116.8
57.5°	11824.0	4925.1	261.4	208.2	170.0	144.4	121.1	112.6	102.0	99.8	99.8
60°	11299.1	4124.0	231.6	184.8	152.9	125.3	106.3	95.6	85.0	82.9	80.7
62.5°	9916.0	3191.3	204.0	163.6	133.9	108.3	91.3	78.7	70.1	70.1	70.1
65°	7563.9	2139.6	178.5	142.4	116.8	91.3	78.7	63.7	59.5	59.5	61.6
67.5°	4527.7	1164.3	152.9	121.1	99.8	76.5	65.9	55.2	53.1	55.2	55.2
69°	2653.7	684.1	138.1	108.3	87.2	68.0	57.4	48.9	53.1	55.2	55.2
70°	1638.2	461.0	127.5	97.7	78.7	61.6	53.1	46.7	50.9	53.1	53.1
72.5°	456.8	237.9	102.0	76.5	63.7	50.9	42.5	42.5	48.9	50.9	50.9
75°	297.5	176.4	78.7	57.4	48.9	40.4	36.1	40.4	46.7	48.9	48.9
77.5°	246.4	144.4	63.7	46.7	40.4	38.3	34.0	36.1	42.5	44.6	44.6
80°	225.3	102.0	50.9	42.5	36.1	34.0	31.9	29.8	38.3	40.4	40.4
82.5°	214.6	80.7	44.6	38.3	34.0	29.8	27.6	29.8	34.0	36.1	38.3
85°	133.9	53.1	40.4	36.1	29.8	27.6	27.6	27.6	31.9	34.0	34.0
87.5°	48.9	42.5	36.1	29.8	25.5	25.5	25.5	25.5	27.6	31.9	31.9
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)