

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: P191208

Luminaire Tested: **GLEON-AF-10-LED-E1-SL4-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191208  
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-10-LED-E1-SL4-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 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: 39520.7 lumens  
Efficiency: N/A  
Efficacy: 94.3 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

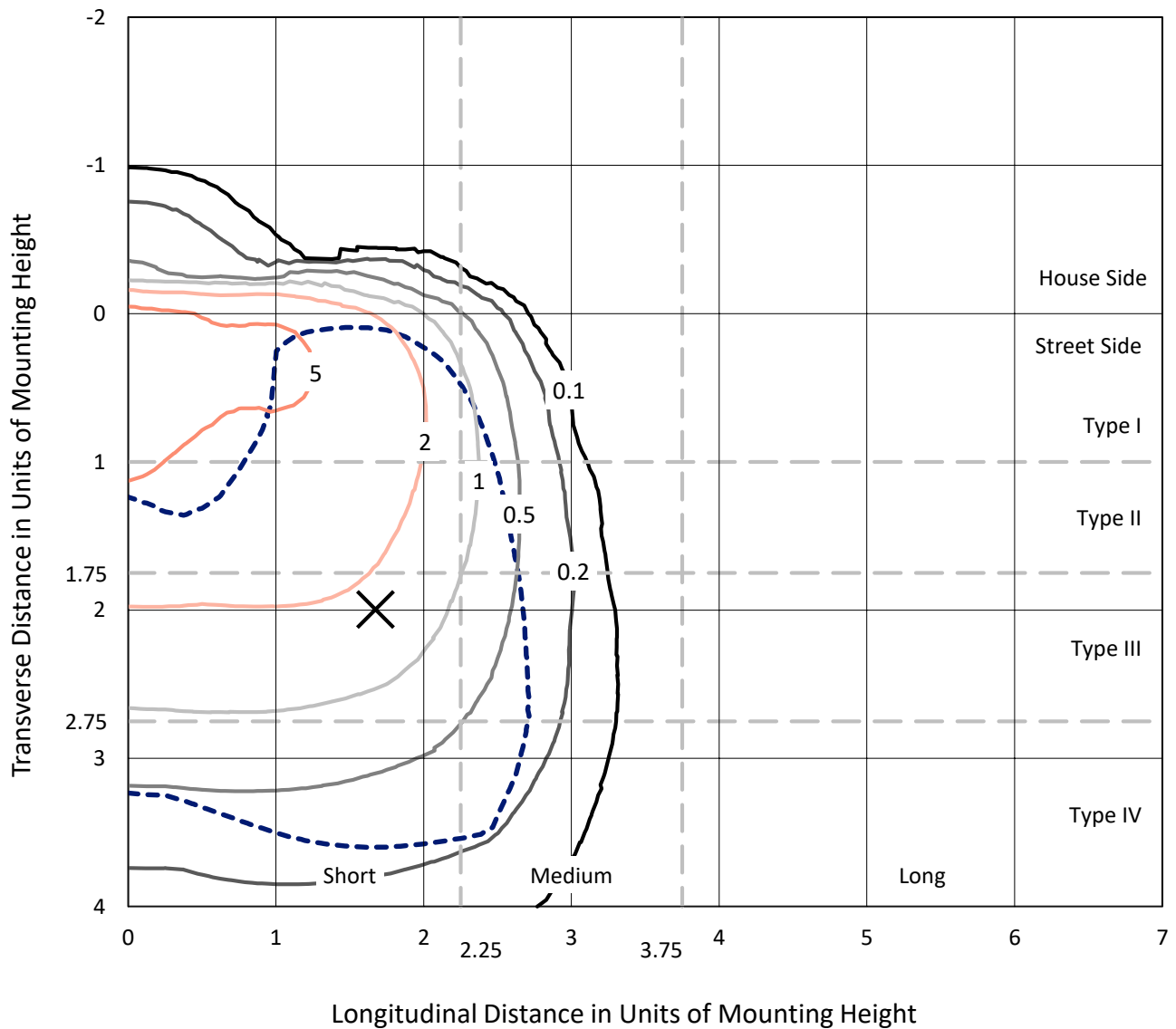
Input Watts (W): 419  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

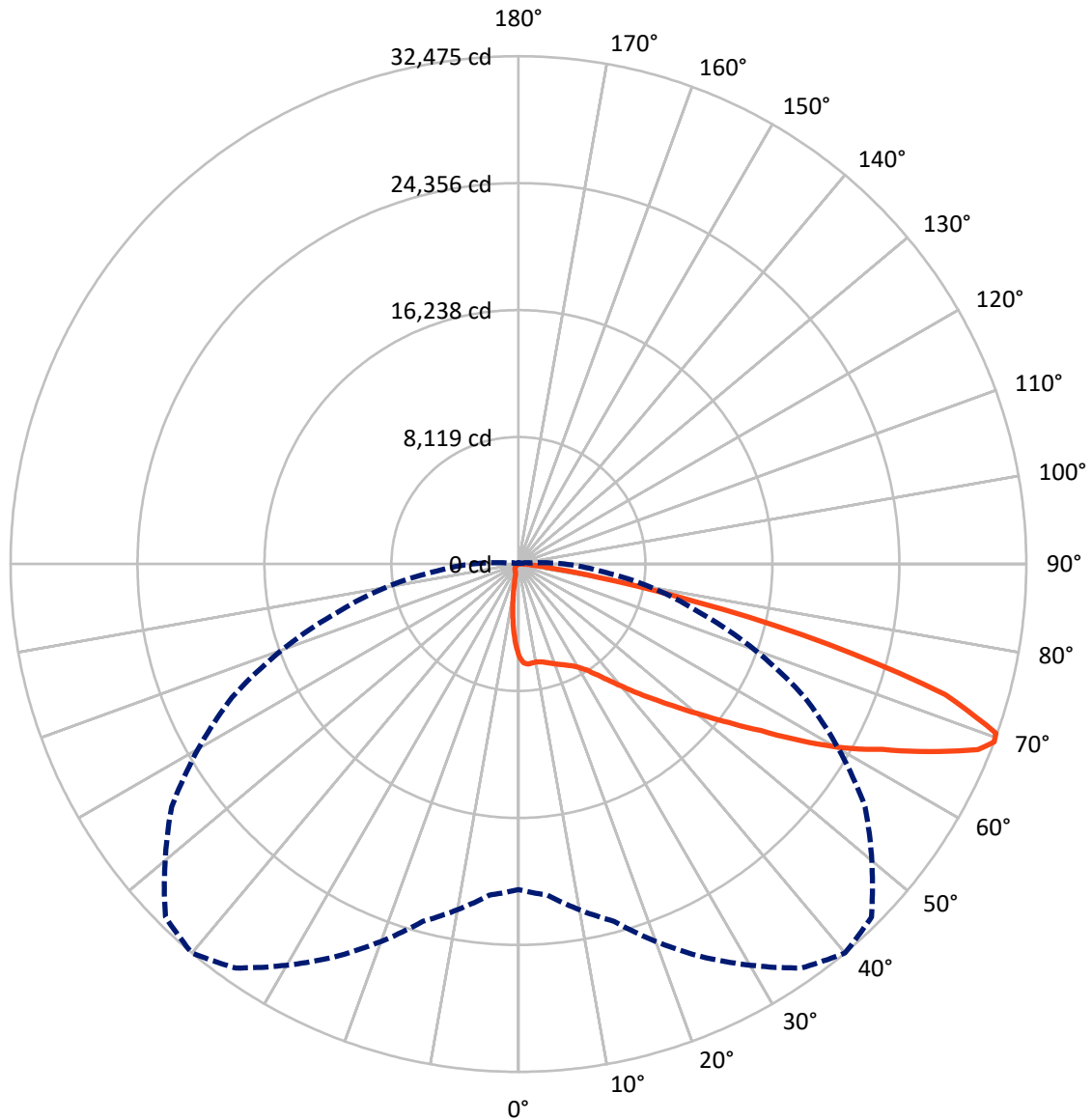
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.2 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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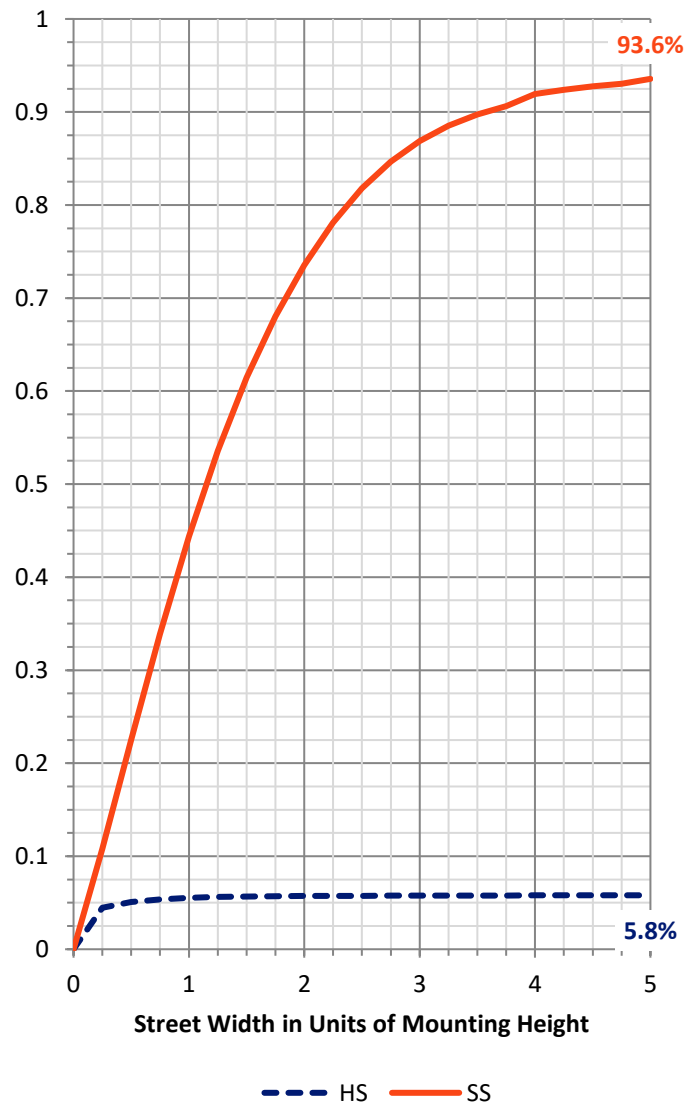
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2312.2	0.0	2312.2
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	37208.5	0.0	37208.5
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	39520.7	0.0	39520.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	478.7	1.2
10°-20°	1177.3	3.0
20°-30°	1983.0	5.0
30°-40°	3246.3	8.2
40°-50°	5620.8	14.2
50°-60°	8853.3	22.4
60°-70°	11562.1	29.3
70°-80°	5955.0	15.1
80°-90°	644.2	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°	39520.7	100.0
0°-180°	39520.7	100.0

**Coefficient of Utilization**



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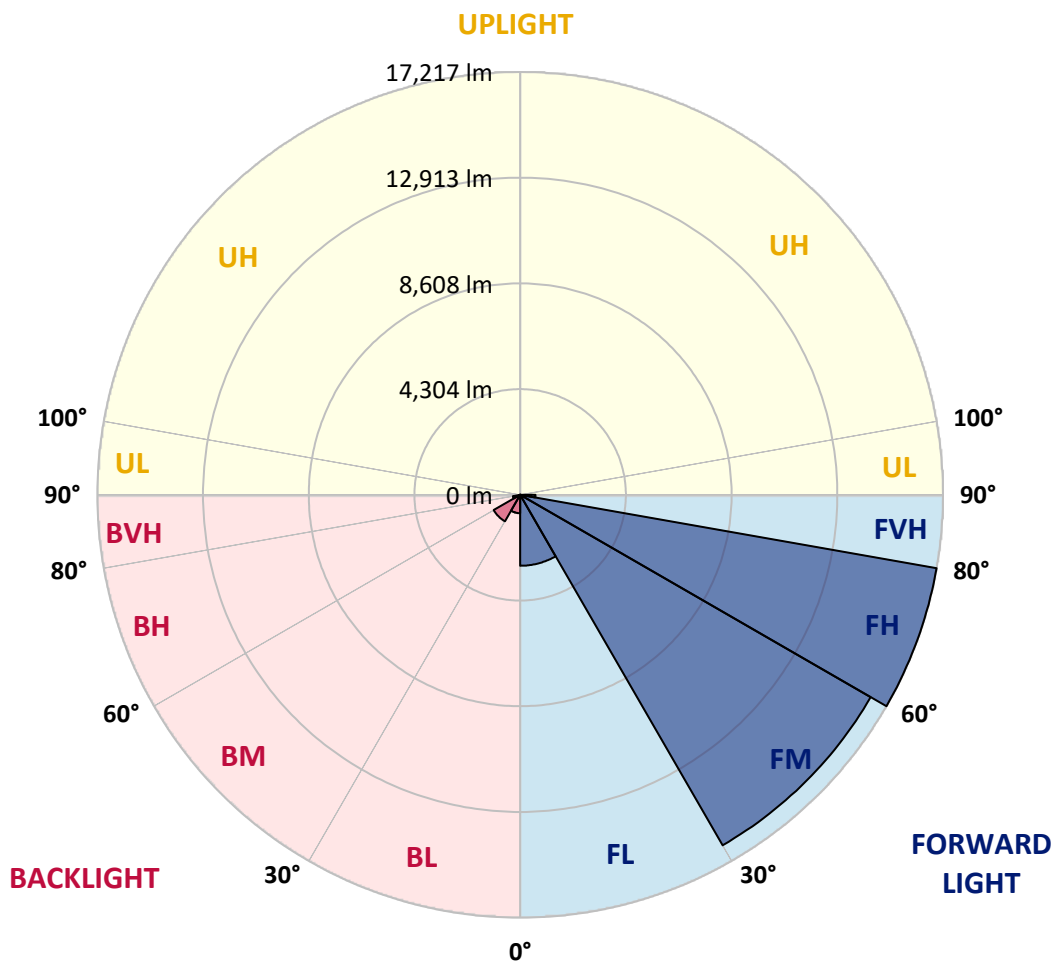
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2890.1	7.3			
FM	(30°-60°)	16477.6	41.7			
FH	(60°-80°)	17216.8	43.6			G5
FVH	(80°-90°)	623.9	1.6			G4/750
BL	(0°-30°)	749.0	1.9	B2/1000		
BM	(30°-60°)	1242.7	3.1	B2/2500		
BH	(60°-80°)	300.3	0.8	B1/500		G1/500
BVH	(80°-90°)	20.2	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°	5904.6	5904.6	5904.6	5904.6	5904.6	5904.6	5904.6	5904.6	5904.6	5904.6	5904.6
2.5°	6483.3	6448.0	6426.8	6398.6	6363.3	6332.8	6321.0	6234.0	6151.6	6038.7	5909.3
5°	6603.2	6591.5	6553.8	6516.2	6473.8	6426.8	6400.9	6297.5	6179.9	6015.2	5789.3
7.5°	6615.0	6600.9	6553.8	6502.1	6443.3	6386.8	6342.2	6238.7	6130.4	5963.4	5688.2
10°	6596.2	6579.7	6544.4	6488.0	6415.0	6361.0	6316.3	6217.5	6125.7	5975.2	5669.4
12.5°	6575.0	6558.5	6542.1	6513.8	6450.3	6412.7	6375.0	6281.0	6198.7	6071.6	5737.5
15°	6596.2	6586.8	6605.6	6593.8	6558.5	6525.6	6488.0	6403.3	6328.1	6222.2	5862.2
17.5°	6685.6	6685.6	6744.4	6751.5	6718.5	6671.5	6617.4	6532.7	6469.1	6379.7	6010.4
20°	6895.0	6887.9	6963.2	6977.3	6897.3	6824.4	6744.4	6640.9	6591.5	6535.0	6156.3
22.5°	7254.9	7221.9	7266.6	7252.5	7094.9	6982.0	6883.2	6756.2	6730.3	6704.4	6318.7
25°	7723.0	7704.1	7734.7	7596.0	7318.4	7165.5	7047.8	6904.4	6904.4	6930.3	6502.1
27.5°	8402.8	8332.3	8228.8	7984.1	7567.8	7372.5	7245.5	7092.5	7132.5	7229.0	6744.4
30°	9099.1	9021.6	8784.0	8407.5	7871.2	7666.6	7518.4	7358.4	7452.5	7629.0	7069.0
32.5°	9786.1	9699.1	9362.7	8887.5	8306.5	8101.8	7958.3	7781.8	7939.4	8235.9	7544.3
35°	10451.8	10374.3	9986.0	9426.2	8885.1	8715.7	8584.0	8431.1	8633.4	9047.4	8214.7
37.5°	11199.9	11115.2	10642.4	10035.5	9588.5	9466.2	9369.7	9216.8	9569.7	10176.6	9148.6
40°	12119.7	11976.2	11338.7	10734.1	10402.4	10343.7	10277.8	10256.6	10804.7	11644.6	10393.0
42.5°	13173.6	12938.4	12068.0	11470.4	11296.3	11338.7	11322.2	11416.3	12350.3	13470.0	11908.0
45°	14227.5	13924.0	12879.6	12256.2	12279.7	12427.8	12519.6	12896.0	14286.3	15563.7	13538.2
47.5°	15121.4	14822.7	13658.2	13105.3	13387.7	13679.4	13928.7	14641.5	16276.5	17624.4	14806.2
50°	15885.9	15603.7	14483.9	14039.3	14674.4	15144.9	15549.6	16605.8	18417.1	19193.4	15695.4
52.5°	16511.7	16323.5	15340.2	15109.6	16144.7	16834.0	17426.8	18692.4	20313.2	20468.4	16387.1
55°	17120.9	16986.9	16260.0	16382.4	17871.4	18810.0	19560.5	20906.0	21945.8	21531.8	17050.4
57.5°	17822.0	17699.7	17309.1	17996.1	20141.5	21322.4	22141.1	22868.0	23383.1	22618.6	17676.2
60°	18537.1	18466.5	18475.9	19788.6	22748.0	23881.8	24333.5	24521.7	24794.6	23641.9	17711.5
62.5°	19219.3	19353.4	19809.7	21783.4	25243.9	26114.3	26342.5	26528.3	26208.4	23804.2	16363.5
65°	20374.4	20593.1	21682.4	24453.4	27989.2	28920.8	29155.9	28518.4	26431.9	21705.9	13310.0
67.5°	20939.0	21338.9	23282.0	26942.4	30652.1	31687.2	31600.2	28647.8	23719.6	16551.7	8541.6
69°	20821.3	21247.1	23651.3	27704.6	31536.7	32475.3	31922.4	27064.7	20207.4	11990.3	5243.5
70°	20355.6	20786.1	23460.8	27676.3	31649.6	32393.0	31324.9	25109.9	17085.6	8767.5	3279.3
72.5°	16998.7	17370.3	20828.4	25015.8	29155.9	28551.4	26206.1	17396.2	8325.3	2387.7	738.7
75°	10463.6	10670.6	14945.0	18845.3	22021.1	20468.4	17459.7	8654.6	2481.8	675.1	409.3
77.5°	5528.2	5622.3	8181.8	11108.1	13959.3	11550.4	8948.7	3375.7	1143.2	423.4	296.5
80°	3267.5	3338.1	4406.1	5078.8	6041.0	5045.9	3578.1	2072.5	818.7	265.9	263.5
82.5°	1870.2	1914.9	3194.6	2822.9	2380.6	2032.5	1780.8	1964.3	491.6	178.8	272.9
85°	686.9	696.3	1797.2	2147.8	1416.2	842.2	884.5	1627.9	131.8	112.9	214.1
87.5°	320.0	312.9	924.5	1315.0	828.1	534.0	689.3	357.5	51.8	72.9	58.8
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°	5904.6	5904.6	5904.6	5904.6	5904.6	5904.6	5904.6	5904.6	5904.6	5904.6	5904.6
2.5°	5834.0	5746.9	5589.4	5427.1	5262.4	5135.3	5010.7	4911.9	4879.0	4817.8	4822.5
5°	5655.3	5495.3	5165.9	4831.9	4483.7	4196.8	3926.2	3707.4	3601.6	3493.4	3493.4
7.5°	5500.0	5267.1	4751.9	4208.5	3646.3	3173.4	2747.6	2427.7	2251.3	2110.1	2107.8
10°	5441.2	5125.9	4406.1	3627.5	2844.1	2199.5	1693.7	1369.1	1202.1	1093.8	1089.1
12.5°	5467.1	5076.5	4140.3	3091.1	2107.8	1413.8	981.0	771.6	701.0	668.1	668.1
15°	5542.3	5062.4	3874.4	2566.5	1489.1	884.5	651.6	595.2	590.4	590.4	590.4
17.5°	5634.1	5067.1	3601.6	2056.0	1013.8	632.8	562.2	555.2	559.9	559.9	559.9
20°	5728.1	5069.4	3307.5	1583.2	715.1	550.4	529.3	526.9	531.6	531.6	534.0
22.5°	5843.4	5081.2	3013.4	1183.2	590.4	519.9	503.4	503.4	505.7	505.7	503.4
25°	5975.2	5104.7	2707.6	877.5	538.7	498.7	484.6	482.2	484.6	482.2	479.9
27.5°	6139.9	5137.7	2366.5	686.9	515.2	477.5	465.7	465.7	463.4	461.0	458.7
30°	6346.9	5175.3	1983.1	583.4	491.6	458.7	446.9	444.6	442.2	437.5	437.5
32.5°	6662.1	5257.7	1604.4	529.3	465.7	432.8	423.4	423.4	418.7	414.0	411.6
35°	7146.6	5420.0	1265.6	496.3	437.5	404.6	392.8	392.8	388.1	385.8	383.4
37.5°	7817.1	5667.0	983.4	465.7	409.3	374.0	362.2	359.9	355.2	350.5	348.1
40°	8708.7	5972.8	774.0	437.5	381.0	343.4	334.1	329.4	320.0	312.9	312.9
42.5°	9828.4	6321.0	628.1	406.9	348.1	315.3	308.2	301.2	284.7	277.6	275.3
45°	11000.0	6633.8	531.6	371.6	315.3	287.0	282.3	270.6	249.4	242.3	242.3
47.5°	11844.4	6706.8	468.1	338.7	284.7	256.5	254.1	232.9	214.1	209.4	207.0
50°	12371.5	6563.3	416.3	305.9	256.5	228.2	221.2	195.3	183.5	178.8	176.5
52.5°	12726.6	6306.9	374.0	277.6	230.6	202.3	185.9	167.0	157.6	152.9	152.9
55°	13011.3	5944.6	331.7	251.7	209.4	181.2	157.6	143.5	134.1	129.4	129.4
57.5°	13091.2	5452.9	289.4	230.6	188.2	160.0	134.1	124.7	112.9	110.6	110.6
60°	12510.2	4566.0	256.5	204.7	169.4	138.8	117.6	105.9	94.1	91.8	89.4
62.5°	10978.8	3533.4	225.9	181.2	148.2	120.0	101.2	87.1	77.6	77.6	77.6
65°	8374.6	2368.8	197.6	157.6	129.4	101.2	87.1	70.6	65.9	65.9	68.2
67.5°	5013.1	1289.1	169.4	134.1	110.6	84.7	72.9	61.2	58.8	61.2	61.2
69°	2938.2	757.5	152.9	120.0	96.5	75.3	63.5	54.1	58.8	61.2	61.2
70°	1813.7	510.5	141.2	108.2	87.1	68.2	58.8	51.8	56.5	58.8	58.8
72.5°	505.7	263.5	112.9	84.7	70.6	56.5	47.1	47.1	54.1	56.5	56.5
75°	329.4	195.3	87.1	63.5	54.1	44.7	40.0	44.7	51.8	54.1	54.1
77.5°	272.9	160.0	70.6	51.8	44.7	42.4	37.6	40.0	47.1	49.4	49.4
80°	249.4	112.9	56.5	47.1	40.0	37.6	35.3	32.9	42.4	44.7	44.7
82.5°	237.6	89.4	49.4	42.4	37.6	32.9	30.6	32.9	37.6	40.0	42.4
85°	148.2	58.8	44.7	40.0	32.9	30.6	30.6	30.6	35.3	37.6	37.6
87.5°	54.1	47.1	40.0	32.9	28.2	28.2	28.2	28.2	30.6	35.3	35.3
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)