

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: P193673

Luminaire Tested: **GLEON-AF-05-LED-E1-SL3-8030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193673  
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-05-LED-E1-SL3-8030-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 3000K, 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: 20739 lumens  
Efficiency: N/A  
Efficacy: 74.3 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): 279  
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

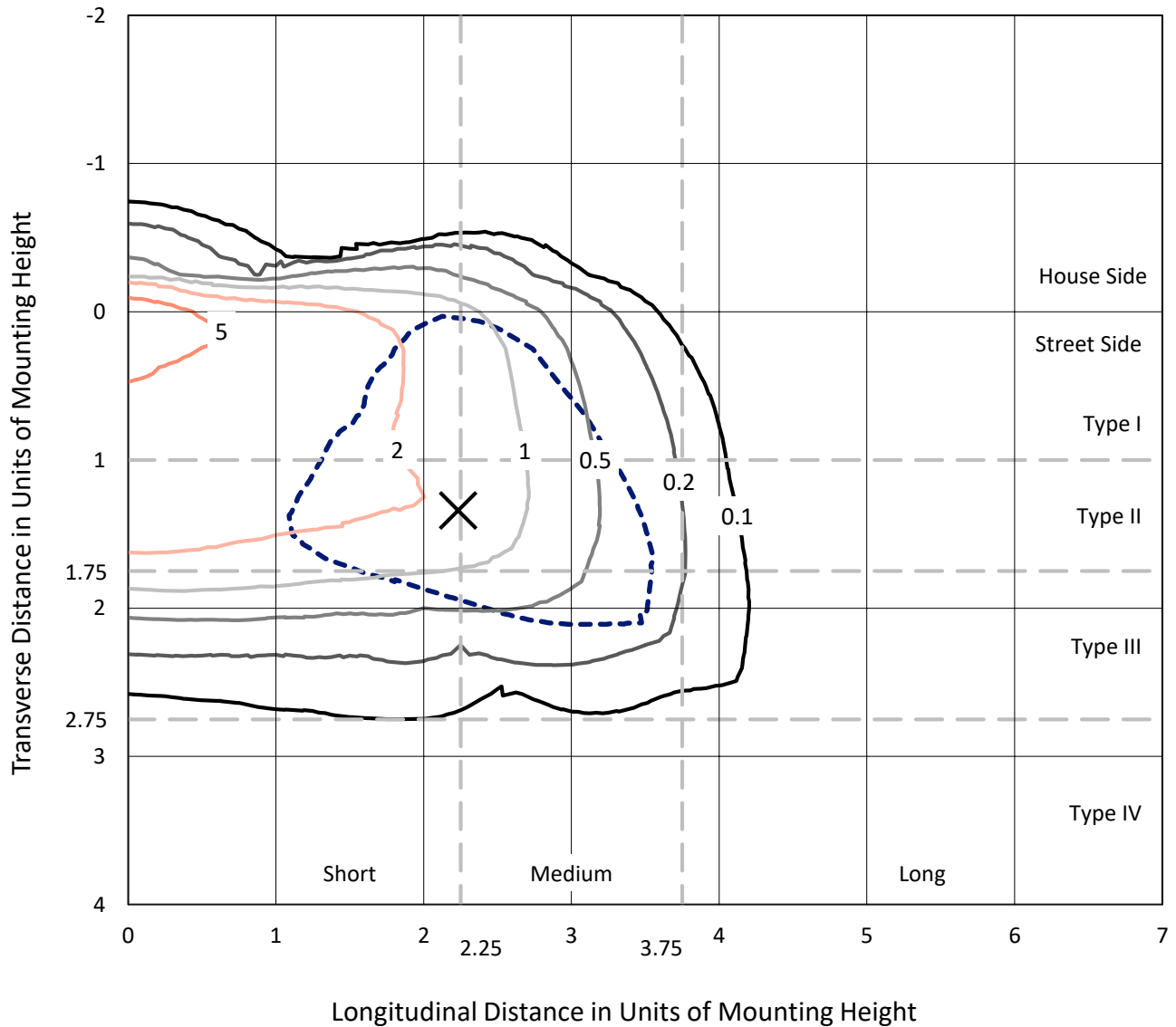


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### Iso-Footcandle Lines of Horizontal Illumination

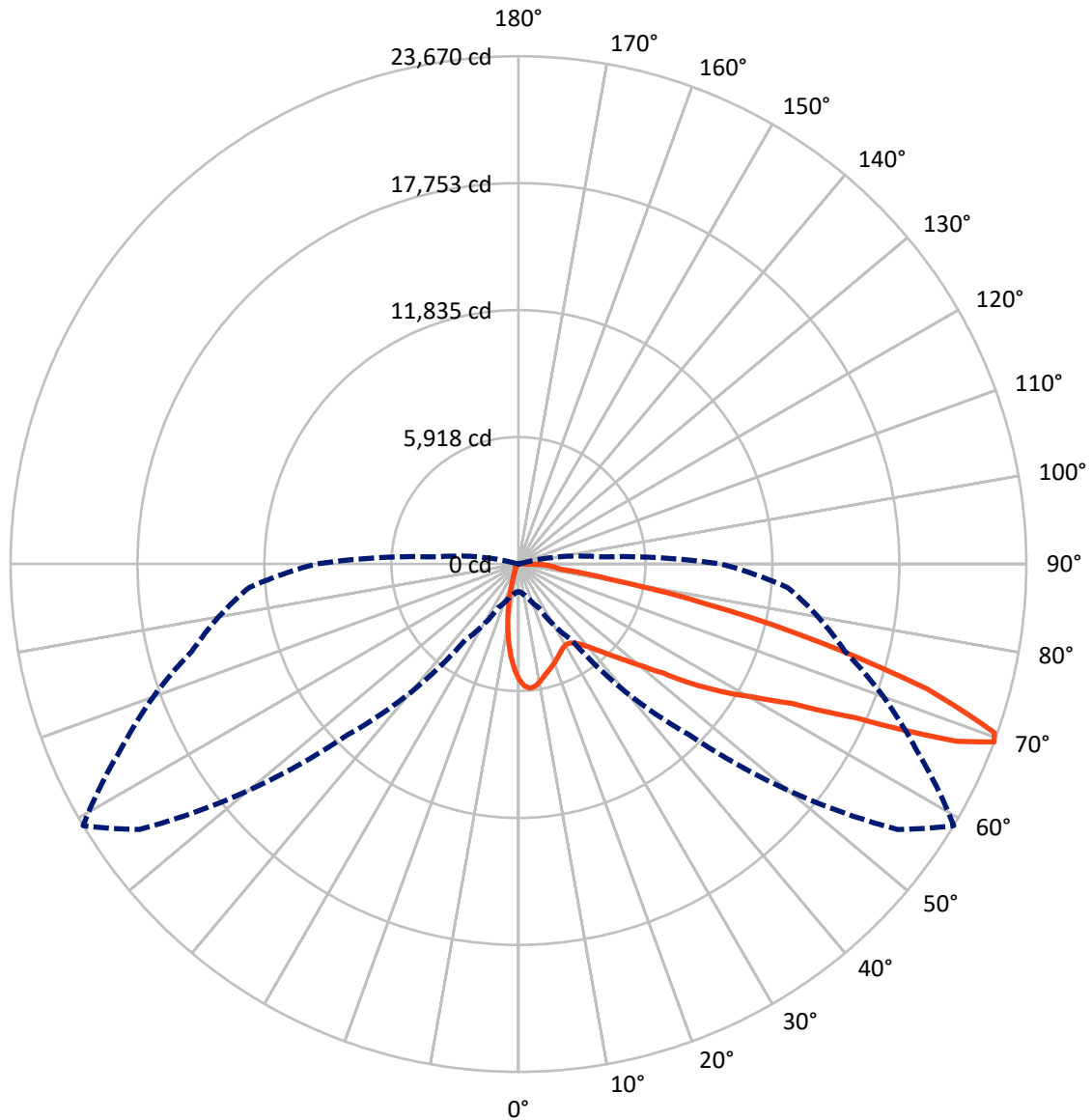
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 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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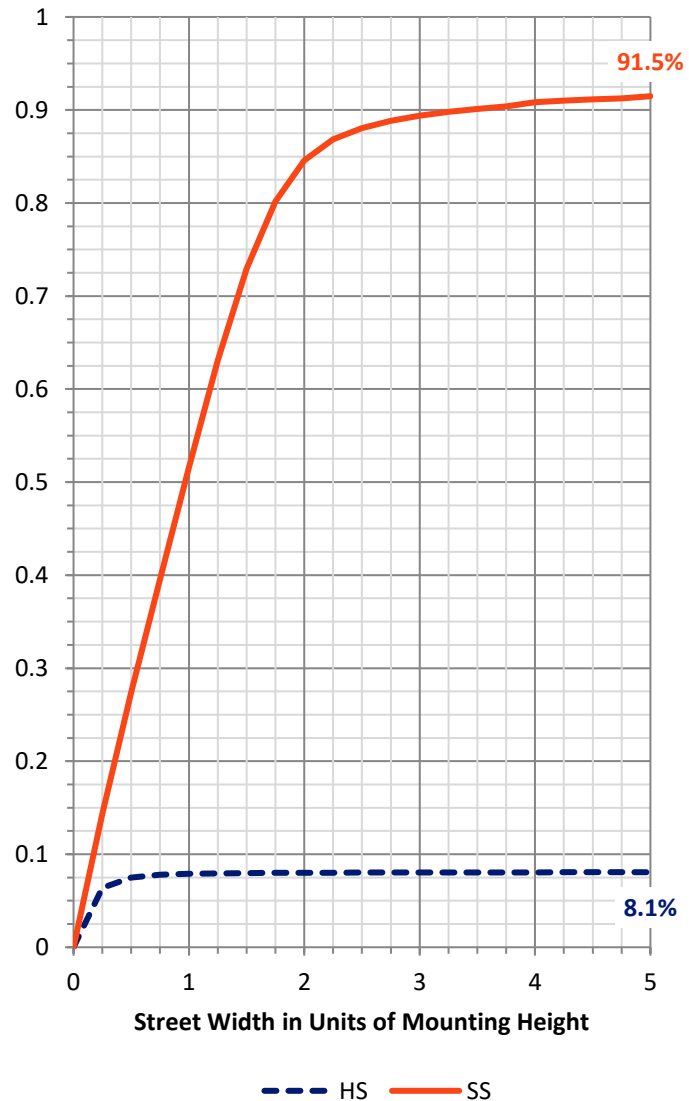
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1688.9	0.0	1688.9
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	19050.1	0.0	19050.1
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	20739.0	0.0	20739.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	438.2	2.1
10°-20°	905.4	4.4
20°-30°	1218.3	5.9
30°-40°	1768.9	8.5
40°-50°	2945.3	14.2
50°-60°	4594.6	22.2
60°-70°	5685.5	27.4
70°-80°	2881.4	13.9
80°-90°	301.5	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°	20739.0	100.0
0°-180°	20739.0	100.0



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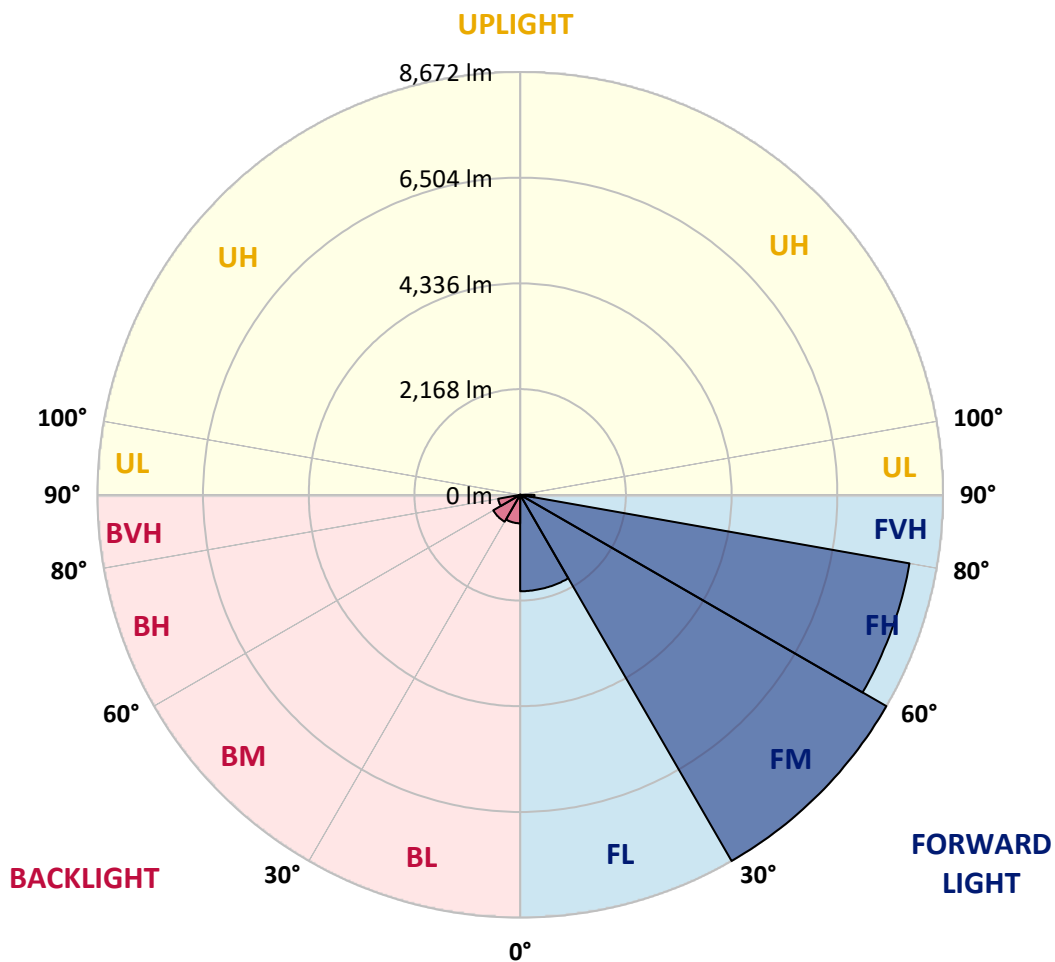
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1977.2	9.5			
FM	(30°-60°)	8672.4	41.8			
FH	(60°-80°)	8108.2	39.1			G4/12000
FVH	(80°-90°)	292.2	1.4			G3/500
BL	(0°-30°)	584.6	2.8	B2/1000		
BM	(30°-60°)	636.4	3.1	B1/1000		
BH	(60°-80°)	458.7	2.2	B1/500		G1/500
BVH	(80°-90°)	9.3	0.0			G0/10
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°	5398.1	5398.1	5398.1	5398.1	5398.1	5398.1	5398.1	5398.1	5398.1	5398.1	5398.1
2.5°	5916.4	5914.1	5888.3	5876.5	5855.4	5810.9	5741.7	5705.3	5646.7	5544.7	5407.5
5°	5862.5	5890.6	5905.9	5907.0	5922.3	5905.9	5843.7	5813.2	5732.3	5568.1	5321.8
7.5°	5496.6	5507.1	5550.5	5588.1	5660.8	5730.0	5752.2	5739.3	5691.3	5515.3	5188.2
10°	5104.9	5115.4	5167.0	5216.3	5314.8	5421.5	5534.1	5557.6	5577.5	5440.3	5059.2
12.5°	4767.1	4777.7	4830.5	4895.0	5009.9	5141.2	5316.0	5354.7	5442.6	5368.8	4956.0
15°	4476.3	4481.0	4532.6	4612.3	4749.6	4918.4	5116.6	5178.8	5313.6	5318.3	4865.7
17.5°	4228.9	4240.6	4272.3	4348.5	4498.6	4707.3	4938.4	5027.5	5185.8	5276.1	4777.7
20°	4077.6	4089.3	4088.1	4130.4	4265.2	4488.0	4760.1	4866.8	5059.2	5232.7	4699.1
22.5°	4048.3	4048.3	4017.8	4011.9	4091.7	4278.1	4574.8	4705.0	4945.4	5214.0	4644.0
25°	4152.6	4147.9	4071.7	4009.6	4013.1	4124.5	4395.4	4550.2	4849.2	5226.9	4614.7
27.5°	4373.1	4367.2	4271.1	4152.6	4057.6	4056.5	4259.4	4425.9	4773.0	5287.8	4626.4
30°	4678.0	4675.7	4571.3	4422.4	4250.0	4091.7	4212.4	4363.7	4723.8	5398.1	4653.4
32.5°	5011.1	5007.6	4929.0	4771.8	4553.7	4250.0	4261.7	4388.4	4737.8	5544.7	4719.1
35°	5364.1	5358.2	5324.2	5187.0	4946.6	4542.0	4423.5	4522.0	4827.0	5764.0	4848.1
37.5°	5746.4	5752.2	5776.9	5645.5	5393.4	4951.3	4694.4	4761.3	5006.4	6061.8	5058.0
40°	6310.5	6309.3	6317.5	6145.1	5902.3	5452.0	5073.2	5094.3	5306.6	6457.0	5377.0
42.5°	7334.3	7262.7	7045.8	6693.9	6450.0	6024.3	5550.5	5528.2	5673.7	6946.1	5823.8
45°	8709.9	8557.4	7994.5	7320.2	7008.2	6669.3	6138.1	6066.5	6159.2	7533.6	6375.0
47.5°	9893.1	9734.8	8938.5	7972.2	7600.5	7281.5	6826.5	6697.5	6728.0	8191.5	7073.9
50°	10295.4	10218.0	9522.6	8539.8	8173.9	8052.0	7625.1	7467.9	7424.6	8952.6	7884.3
52.5°	10155.8	10150.0	9686.7	8908.1	8699.3	8849.4	8630.1	8448.3	8288.9	9754.8	8708.7
55°	9931.8	9961.2	9753.6	9230.6	9223.5	9577.7	10004.6	9853.3	9391.2	10626.1	9419.4
57.5°	9313.8	9439.3	9716.1	9840.4	10128.9	10491.2	11149.1	11238.3	10691.8	11293.4	10009.2
60°	7557.1	7832.7	8738.0	9928.3	11295.7	12198.7	12530.6	12606.8	11759.0	11848.1	10805.5
62.5°	5364.1	5645.5	6793.6	8807.2	11313.3	14442.2	14588.8	14289.7	12934.0	12670.2	12178.8
65°	2847.4	3064.3	4002.5	6357.4	9808.7	14962.9	18187.9	17296.6	15007.4	14287.4	13953.1
67.5°	1456.5	1522.2	1895.1	3111.3	6743.2	13290.5	21414.0	22041.5	18580.7	15891.7	13867.5
69°	1288.8	1327.5	1575.0	2249.3	4318.0	11257.0	21571.2	23670.4	20451.2	15758.0	12602.2
70°	1247.8	1281.8	1507.0	2035.9	3375.1	9440.5	20969.6	23527.3	20929.7	15249.0	11656.9
72.5°	1059.0	1088.3	1341.6	1799.0	2743.0	4686.2	17033.9	19936.4	18781.3	12703.0	8437.8
75°	708.3	804.5	1287.7	1686.4	2551.9	2662.1	11230.1	14407.0	13383.2	8568.0	4395.4
77.5°	170.0	182.9	363.5	1341.6	2333.7	2343.1	5775.7	8956.1	7304.9	3053.8	1039.0
80°	91.5	88.0	102.0	266.2	2173.1	2198.9	2599.9	4347.3	2608.2	506.6	342.4
82.5°	64.5	61.0	65.7	111.4	683.7	2003.0	1881.1	1967.8	1081.3	194.7	153.6
85°	23.5	22.3	36.4	100.9	214.6	1151.6	1932.7	1623.1	876.0	89.1	112.6
87.5°	8.2	7.0	14.1	55.1	65.7	490.2	1192.7	1226.7	344.8	53.9	52.8
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°	5398.1	5398.1	5398.1	5398.1	5398.1	5398.1	5398.1	5398.1	5398.1	5398.1	5398.1
2.5°	5350.0	5277.3	5143.6	5006.4	4879.7	4727.3	4651.0	4576.0	4544.3	4532.6	4477.5
5°	5195.2	5072.1	4788.3	4503.3	4240.6	3961.5	3777.4	3629.6	3542.8	3500.6	3433.8
7.5°	4997.0	4795.3	4364.9	3925.1	3515.8	3112.4	2813.4	2583.5	2425.2	2349.0	2279.8
10°	4804.7	4536.1	3924.0	3324.7	2768.8	2234.1	1821.2	1522.2	1331.0	1243.1	1186.8
12.5°	4632.3	4284.0	3498.3	2739.5	2041.7	1415.5	995.6	757.6	639.1	598.1	578.2
15°	4478.7	4051.8	3096.0	2183.6	1382.6	809.2	544.1	463.2	444.5	444.5	442.1
17.5°	4333.2	3824.3	2707.8	1661.8	867.8	494.9	414.0	403.4	403.4	408.1	408.1
20°	4193.7	3607.3	2332.6	1192.7	546.5	392.9	374.1	371.8	374.1	380.0	380.0
22.5°	4074.1	3410.3	1981.9	818.6	405.8	354.2	344.8	341.3	342.4	346.0	348.3
25°	3984.9	3243.8	1651.2	554.7	349.5	322.5	311.9	306.1	301.4	301.4	303.7
27.5°	3928.6	3103.0	1331.0	403.4	314.3	293.2	276.8	267.4	256.8	251.0	253.3
30°	3887.6	2969.4	1030.8	329.5	281.5	260.3	239.2	224.0	208.7	201.7	204.1
32.5°	3872.4	2861.5	770.5	290.8	252.1	228.7	202.9	182.9	166.5	160.7	161.8
35°	3913.4	2775.9	564.1	262.7	228.7	199.4	170.0	147.8	134.9	131.3	132.5
37.5°	4021.3	2730.1	422.2	239.2	207.6	174.7	141.9	120.8	112.6	112.6	113.8
40°	4225.3	2728.9	338.9	222.8	188.8	151.3	117.3	102.0	97.3	99.7	100.9
42.5°	4523.2	2791.1	295.5	207.6	172.4	129.0	97.3	86.8	85.6	88.0	89.1
45°	4930.2	2904.9	272.1	194.7	154.8	107.9	82.1	75.1	75.1	78.6	79.7
47.5°	5428.6	3071.4	252.1	181.8	137.2	90.3	70.4	65.7	66.8	70.4	71.5
50°	6029.0	3281.3	232.2	167.7	124.3	75.1	61.0	57.5	58.6	63.3	64.5
52.5°	6712.7	3563.9	215.8	154.8	107.9	62.2	51.6	49.3	51.6	56.3	57.5
55°	7299.1	3817.2	195.8	144.2	86.8	51.6	42.2	42.2	44.6	50.4	51.6
57.5°	7863.2	4082.3	178.3	124.3	68.0	41.0	35.2	36.4	39.9	45.7	46.9
60°	8691.1	4531.4	157.1	104.4	51.6	32.8	29.3	30.5	35.2	41.0	42.2
62.5°	10097.2	5215.1	136.0	86.8	39.9	25.8	23.5	25.8	31.7	38.7	39.9
65°	11366.1	5493.1	111.4	72.7	30.5	19.9	19.9	23.5	30.5	37.5	38.7
67.5°	10658.9	4624.1	86.8	57.5	23.5	15.2	16.4	22.3	29.3	37.5	38.7
69°	9426.4	3780.9	73.9	45.7	19.9	14.1	15.2	22.3	29.3	36.4	37.5
70°	8465.9	3192.2	65.7	38.7	17.6	14.1	15.2	21.1	29.3	36.4	37.5
72.5°	5670.1	1723.9	52.8	28.1	16.4	12.9	12.9	21.1	28.1	35.2	36.4
75°	2436.9	476.1	42.2	19.9	14.1	11.7	11.7	19.9	27.0	34.0	36.4
77.5°	445.6	120.8	34.0	17.6	14.1	11.7	10.6	18.8	25.8	32.8	34.0
80°	177.1	59.8	27.0	15.2	12.9	10.6	9.4	17.6	24.6	31.7	32.8
82.5°	106.7	34.0	22.3	14.1	12.9	9.4	8.2	15.2	23.5	30.5	31.7
85°	86.8	23.5	17.6	14.1	11.7	9.4	7.0	14.1	21.1	29.3	30.5
87.5°	42.2	16.4	16.4	12.9	11.7	9.4	7.0	12.9	19.9	28.1	29.3
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)