

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: P269400

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-7027-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269400  
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-SL3-7027-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 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: 26424.4 lumens  
Efficiency: N/A  
Efficacy: 79.4 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): 333  
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

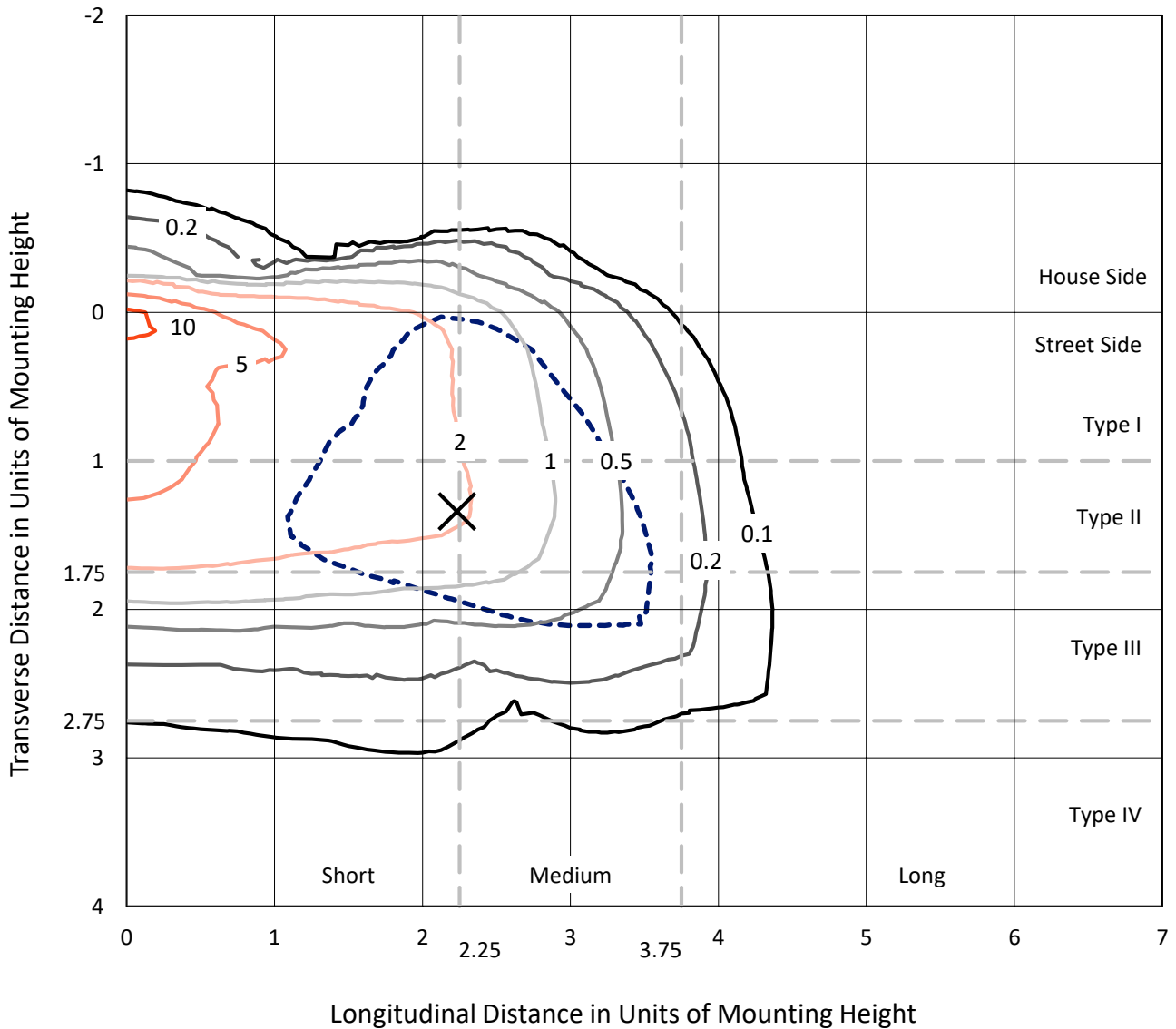


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### Iso-Footcandle Lines of Horizontal Illumination

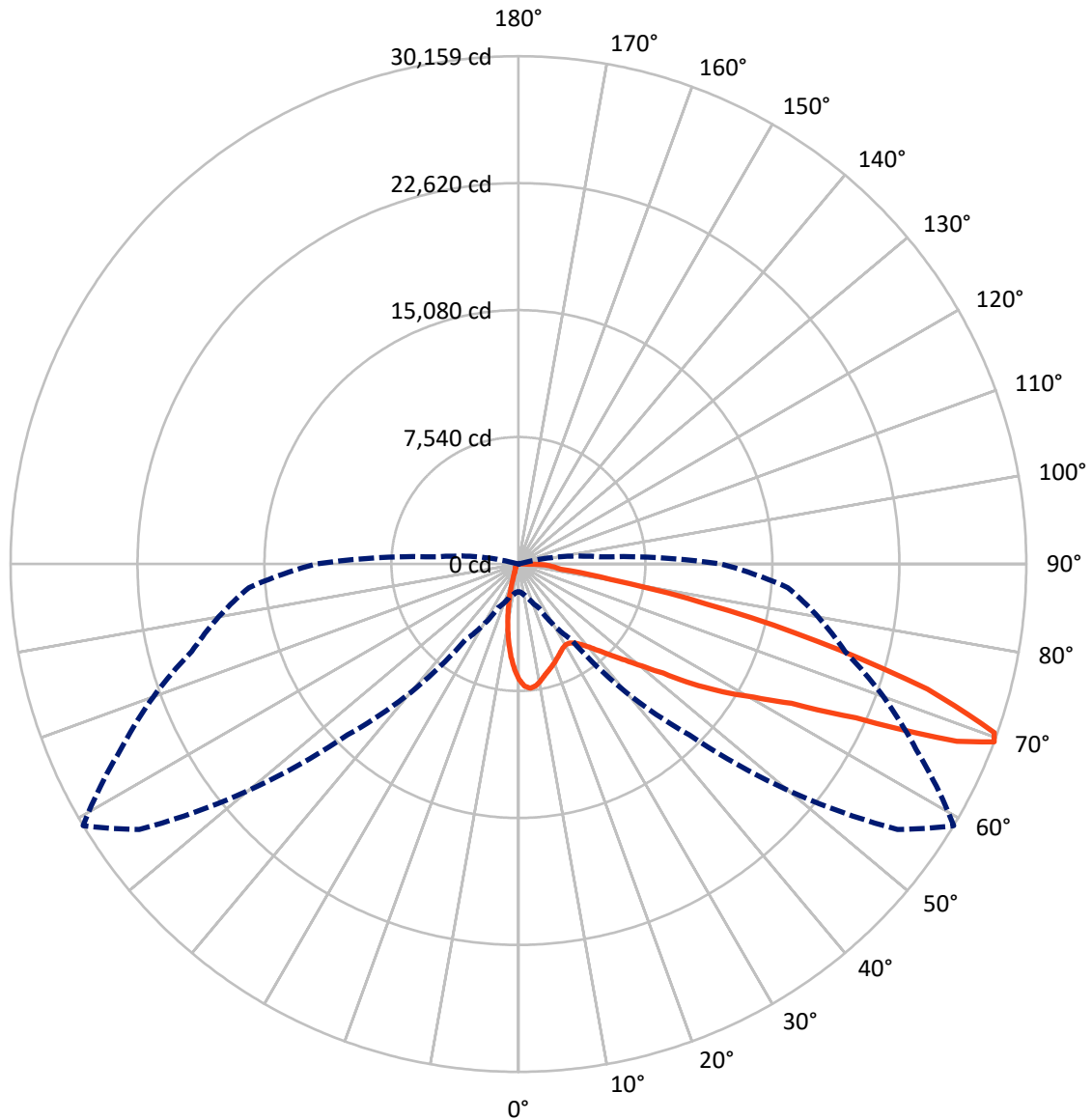
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 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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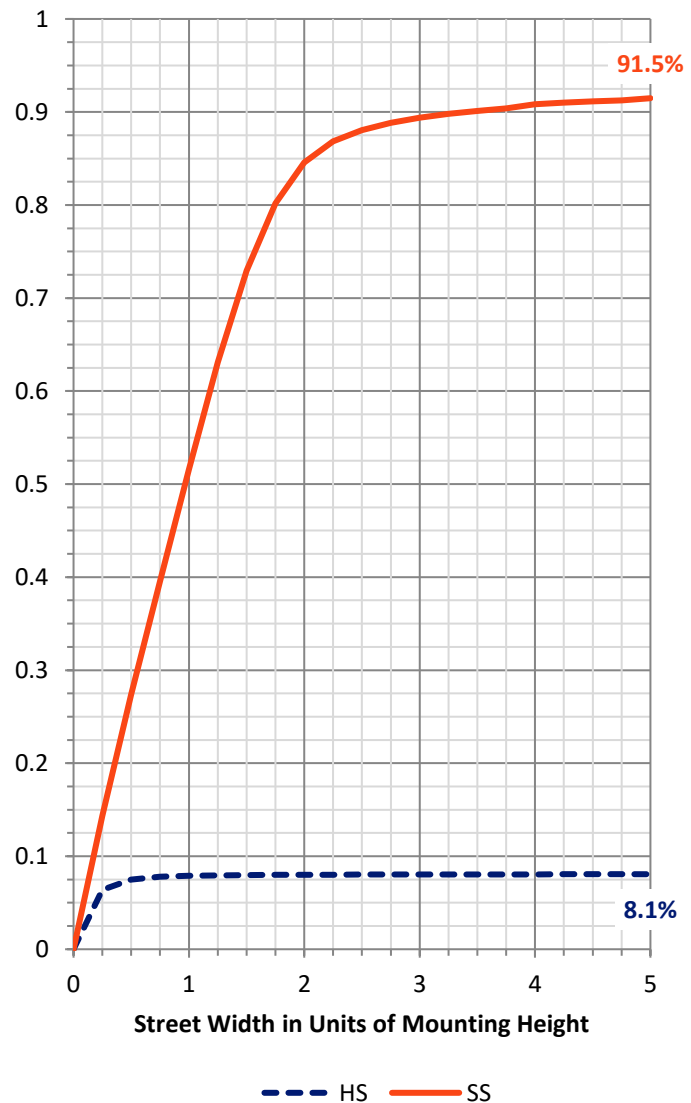
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2151.9	0.0	2151.9
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	24272.5	0.0	24272.5
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	26424.4	0.0	26424.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	558.3	2.1
10°-20°	1153.6	4.4
20°-30°	1552.3	5.9
30°-40°	2253.8	8.5
40°-50°	3752.8	14.2
50°-60°	5854.2	22.2
60°-70°	7244.1	27.4
70°-80°	3671.2	13.9
80°-90°	384.1	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°	26424.4	100.0
0°-180°	26424.4	100.0



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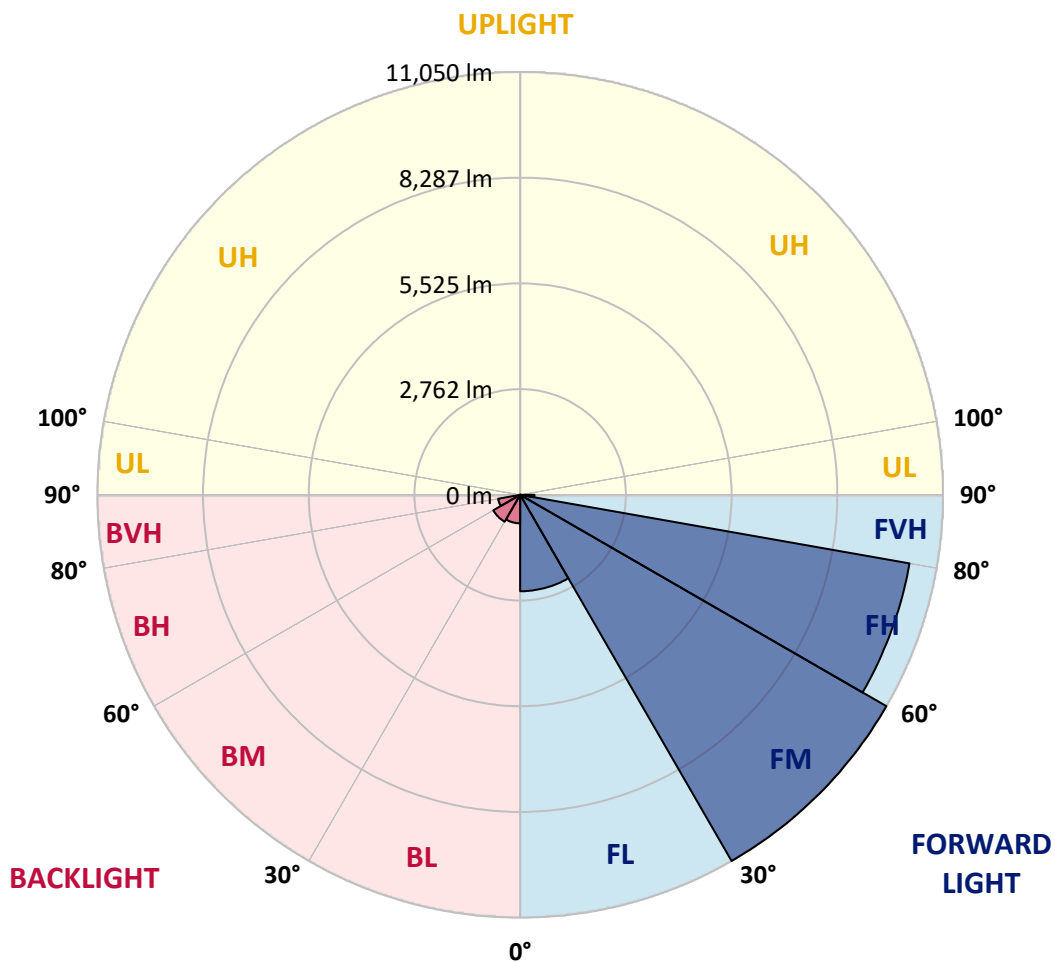
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2519.3	9.5			
FM	(30°-60°)	11049.9	41.8			
FH	(60°-80°)	10331.0	39.1			G4/12000
FVH	(80°-90°)	372.3	1.4			G3/500
BL	(0°-30°)	744.8	2.8	B2/1000		
BM	(30°-60°)	810.9	3.1	B1/1000		
BH	(60°-80°)	584.4	2.2	B2/1000		G2/1000
BVH	(80°-90°)	11.8	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°	6878.0	6878.0	6878.0	6878.0	6878.0	6878.0	6878.0	6878.0	6878.0	6878.0	6878.0
2.5°	7538.3	7535.3	7502.6	7487.6	7460.7	7403.9	7315.7	7269.4	7194.6	7064.7	6889.9
5°	7469.6	7505.5	7524.9	7526.4	7545.9	7524.9	7445.7	7406.9	7303.8	7094.5	6780.8
7.5°	7003.5	7016.9	7072.1	7120.0	7212.6	7300.7	7329.2	7312.7	7251.5	7027.4	6610.4
10°	6504.4	6517.8	6583.6	6646.3	6771.9	6907.7	7051.2	7081.1	7106.5	6931.7	6446.1
12.5°	6074.0	6087.5	6154.6	6236.9	6383.4	6550.7	6773.3	6822.6	6934.6	6840.6	6314.5
15°	5703.5	5709.4	5775.2	5876.8	6051.6	6266.8	6519.3	6598.5	6770.3	6776.4	6199.6
17.5°	5388.2	5403.1	5443.5	5540.6	5731.8	5997.9	6292.2	6405.8	6607.5	6722.6	6087.5
20°	5195.3	5210.3	5208.8	5262.7	5434.4	5718.4	6065.0	6201.0	6446.1	6667.2	5987.4
22.5°	5158.1	5158.1	5119.3	5111.7	5213.4	5450.9	5828.9	5994.7	6301.2	6643.3	5917.1
25°	5291.0	5285.1	5187.9	5108.8	5113.2	5255.2	5600.4	5797.7	6178.6	6659.8	5879.8
27.5°	5571.9	5564.6	5441.9	5291.0	5170.0	5168.5	5427.0	5639.2	6081.4	6737.5	5894.7
30°	5960.4	5957.5	5824.5	5634.7	5415.1	5213.4	5367.3	5560.0	6018.7	6878.0	5929.1
32.5°	6384.9	6380.3	6280.2	6080.0	5802.1	5415.1	5430.1	5591.4	6036.7	7064.7	6012.7
35°	6834.6	6827.1	6783.8	6608.9	6302.7	5787.2	5636.2	5761.6	6150.2	7344.2	6177.1
37.5°	7321.6	7329.2	7360.5	7193.2	6871.9	6308.5	5981.4	6066.6	6378.9	7723.6	6444.6
40°	8040.4	8038.9	8049.4	7829.7	7520.4	6946.7	6464.1	6491.0	6761.4	8227.1	6851.1
42.5°	9344.9	9253.7	8977.3	8529.0	8218.2	7675.8	7072.1	7043.8	7229.1	8850.3	7420.3
45°	11097.7	10903.4	10186.2	9326.9	8929.5	8497.6	7820.7	7729.6	7847.7	9598.8	8122.7
47.5°	12605.2	12403.5	11389.0	10157.8	9684.1	9277.6	8697.8	8533.4	8572.3	10437.1	9013.1
50°	13117.8	13019.1	12133.0	10880.9	10414.7	10259.4	9715.4	9515.2	9460.0	11406.9	10045.7
52.5°	12939.9	12932.4	12342.4	11350.2	11084.1	11275.4	10996.1	10764.4	10561.2	12428.9	11096.1
55°	12654.6	12692.0	12427.4	11761.0	11752.0	12203.4	12747.2	12554.4	11965.8	13539.2	12001.6
57.5°	11867.1	12027.0	12379.6	12538.1	12905.6	13367.3	14205.5	14319.2	13622.8	14389.4	12753.1
60°	9628.8	9979.9	11133.5	12650.1	14392.4	15543.0	15965.8	16063.0	14982.7	15096.1	13767.8
62.5°	6834.6	7193.2	8656.1	11221.6	14414.8	18401.4	18588.2	18207.0	16479.8	16143.6	15517.5
65°	3628.0	3904.5	5099.8	8100.1	12497.7	19064.8	23173.9	22038.3	19121.6	18204.2	17778.3
67.5°	1855.8	1939.5	2414.6	3964.2	8591.7	16933.9	27284.5	28083.9	23674.6	20248.2	17669.2
69°	1642.1	1691.5	2006.8	2866.0	5501.7	14343.1	27484.7	30159.4	26057.8	20077.8	16056.9
70°	1589.9	1633.2	1920.0	2593.9	4300.4	12028.6	26718.2	29977.1	26667.4	19429.4	14852.5
72.5°	1349.3	1386.7	1709.4	2292.1	3494.9	5970.9	21703.6	25401.8	23929.9	16185.4	10750.9
75°	902.4	1025.1	1640.7	2148.7	3251.4	3391.9	14308.7	18356.5	17052.0	10916.8	5600.4
77.5°	216.8	233.1	463.2	1709.4	2973.5	2985.4	7359.1	11411.3	9307.5	3891.0	1323.9
80°	116.5	112.1	130.1	339.2	2768.8	2801.6	3312.7	5539.0	3323.2	645.5	436.2
82.5°	82.1	77.8	83.7	141.9	871.1	2552.2	2396.8	2507.3	1377.7	248.0	195.7
85°	29.9	28.3	46.4	128.5	273.4	1467.3	2462.4	2068.0	1116.1	113.5	143.5
87.5°	10.5	9.0	18.0	70.2	83.7	624.6	1519.7	1563.0	439.4	68.7	67.3
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°	6878.0	6878.0	6878.0	6878.0	6878.0	6878.0	6878.0	6878.0	6878.0	6878.0	6878.0
2.5°	6816.7	6724.1	6553.7	6378.9	6217.4	6023.2	5926.1	5830.4	5790.1	5775.2	5705.0
5°	6619.4	6462.5	6100.8	5737.8	5403.1	5047.4	4812.8	4624.7	4514.1	4460.3	4375.0
7.5°	6366.8	6109.9	5561.4	5001.1	4479.7	3965.7	3584.6	3291.7	3090.1	2993.0	2904.8
10°	6121.8	5779.6	4999.6	4236.1	3527.9	2846.5	2320.5	1939.5	1695.9	1583.9	1512.1
12.5°	5902.1	5458.5	4457.3	3490.5	2601.4	1803.5	1268.5	965.3	814.4	762.0	736.7
15°	5706.5	5162.6	3944.7	2782.2	1761.7	1031.1	693.3	590.2	566.3	566.3	563.3
17.5°	5521.2	4872.6	3450.2	2117.3	1105.8	630.6	527.5	514.0	514.0	519.9	519.9
20°	5343.4	4596.3	2972.0	1519.7	696.2	500.5	476.7	473.6	476.7	484.1	484.1
22.5°	5190.9	4345.2	2525.2	1042.9	517.1	451.3	439.4	434.8	436.2	440.8	443.9
25°	5077.4	4133.0	2103.9	706.7	445.3	411.0	397.5	390.0	384.0	384.0	387.0
27.5°	5005.6	3953.7	1695.9	514.0	400.5	373.5	352.7	340.6	327.3	319.7	322.8
30°	4953.3	3783.4	1313.4	419.9	358.7	331.7	304.9	285.4	266.0	257.1	260.0
32.5°	4933.9	3646.0	981.7	370.6	321.2	291.4	258.5	233.1	212.2	204.8	206.3
35°	4986.2	3536.8	718.7	334.7	291.4	254.0	216.8	188.3	171.8	167.4	168.8
37.5°	5123.8	3478.5	537.9	304.9	264.6	222.6	180.7	153.9	143.5	143.5	144.9
40°	5383.7	3477.1	431.8	284.0	240.6	192.7	149.4	130.1	124.1	127.0	128.5
42.5°	5763.3	3556.3	376.5	264.6	219.6	164.4	124.1	110.6	109.1	112.1	113.5
45°	6281.7	3701.1	346.7	248.0	197.3	137.5	104.7	95.6	95.6	100.2	101.6
47.5°	6916.8	3913.3	321.2	231.7	174.8	115.1	89.7	83.7	85.2	89.7	91.2
50°	7681.8	4180.8	295.8	213.6	158.5	95.6	77.8	73.2	74.6	80.7	82.1
52.5°	8552.9	4540.9	274.9	197.3	137.5	79.2	65.8	62.7	65.8	71.8	73.2
55°	9300.1	4863.8	249.5	183.9	110.6	65.8	53.8	53.8	56.9	64.3	65.8
57.5°	10018.7	5201.4	227.1	158.5	86.6	52.3	44.8	46.4	50.8	58.3	59.7
60°	11073.6	5773.6	200.2	132.9	65.8	41.9	37.4	38.8	44.8	52.3	53.8
62.5°	12865.3	6644.9	173.4	110.6	50.8	32.9	29.9	32.9	40.3	49.2	50.8
65°	14482.0	6999.0	141.9	92.6	38.8	25.4	25.4	29.9	38.8	47.8	49.2
67.5°	13580.9	5891.8	110.6	73.2	29.9	19.5	20.9	28.3	37.4	47.8	49.2
69°	12010.6	4817.4	94.1	58.3	25.4	18.0	19.5	28.3	37.4	46.4	47.8
70°	10786.8	4067.3	83.7	49.2	22.4	18.0	19.5	26.9	37.4	46.4	47.8
72.5°	7224.6	2196.5	67.3	35.8	20.9	16.3	16.3	26.9	35.8	44.8	46.4
75°	3105.0	606.6	53.8	25.4	18.0	14.9	14.9	25.4	34.3	43.4	46.4
77.5°	567.8	153.9	43.4	22.4	18.0	14.9	13.5	24.0	32.9	41.9	43.4
80°	225.7	76.1	34.3	19.5	16.3	13.5	11.9	22.4	31.4	40.3	41.9
82.5°	136.0	43.4	28.3	18.0	16.3	11.9	10.5	19.5	29.9	38.8	40.3
85°	110.6	29.9	22.4	18.0	14.9	11.9	9.0	18.0	26.9	37.4	38.8
87.5°	53.8	20.9	20.9	16.3	14.9	11.9	9.0	16.3	25.4	35.8	37.4
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)