

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: P193748

Luminaire Tested: **GLEON-AF-10-LED-E1-SL4-8030-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193748  
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-SL4-8030-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 3000K, 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: 31525 lumens  
Efficiency: N/A  
Efficacy: 75.2 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

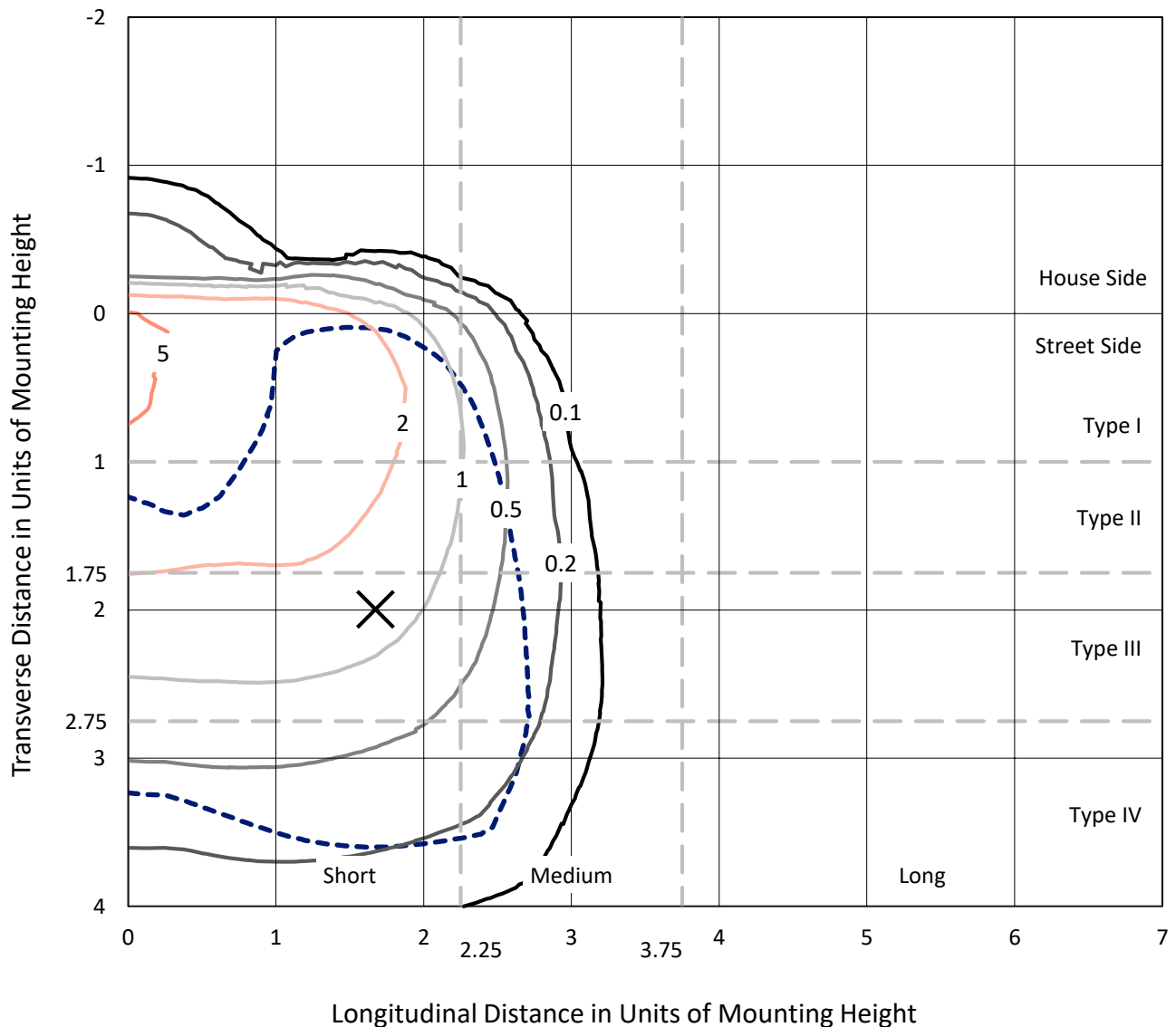


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

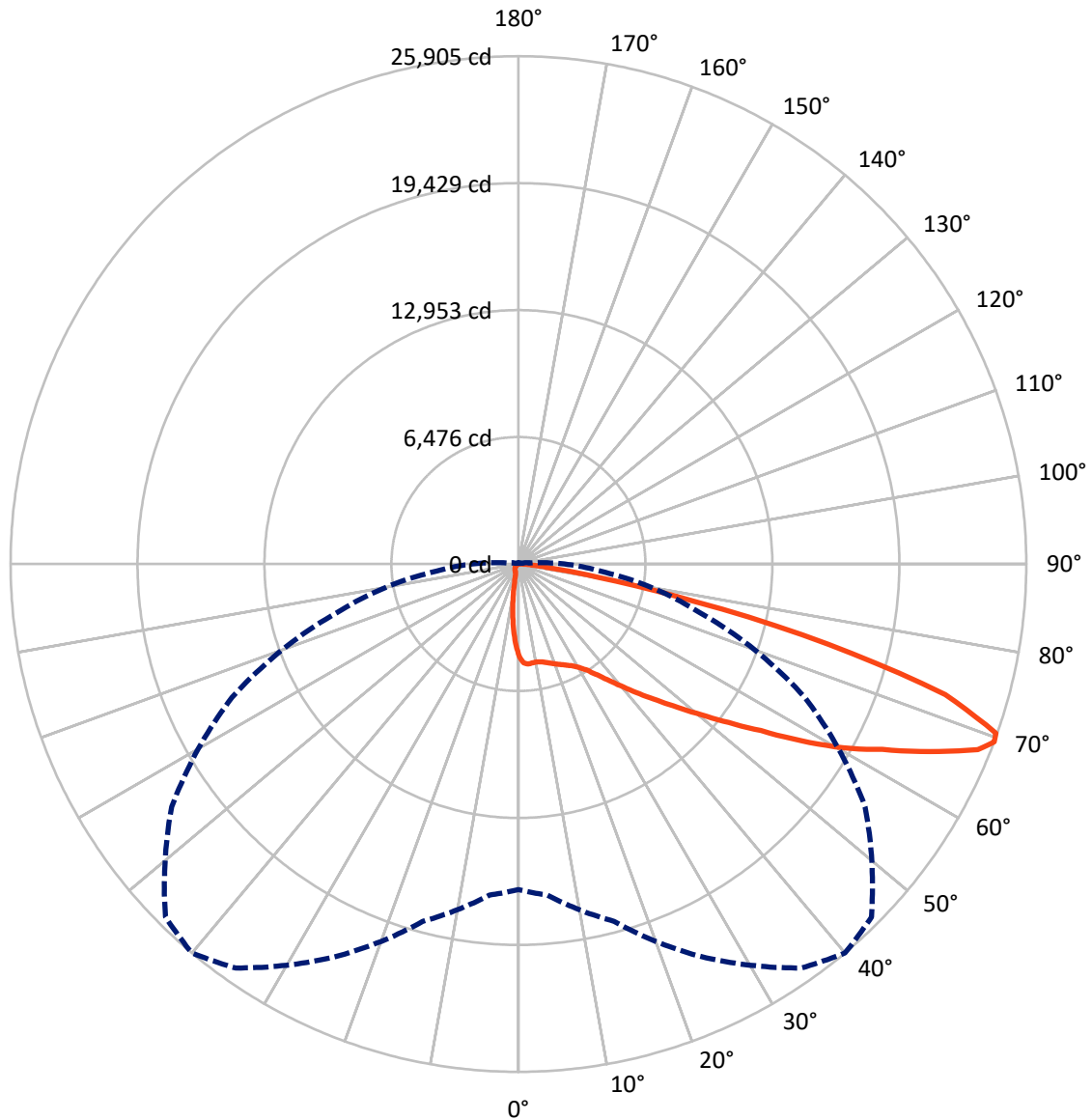


Based on 30 foot mounting height. Maximum calculated value = 5.7 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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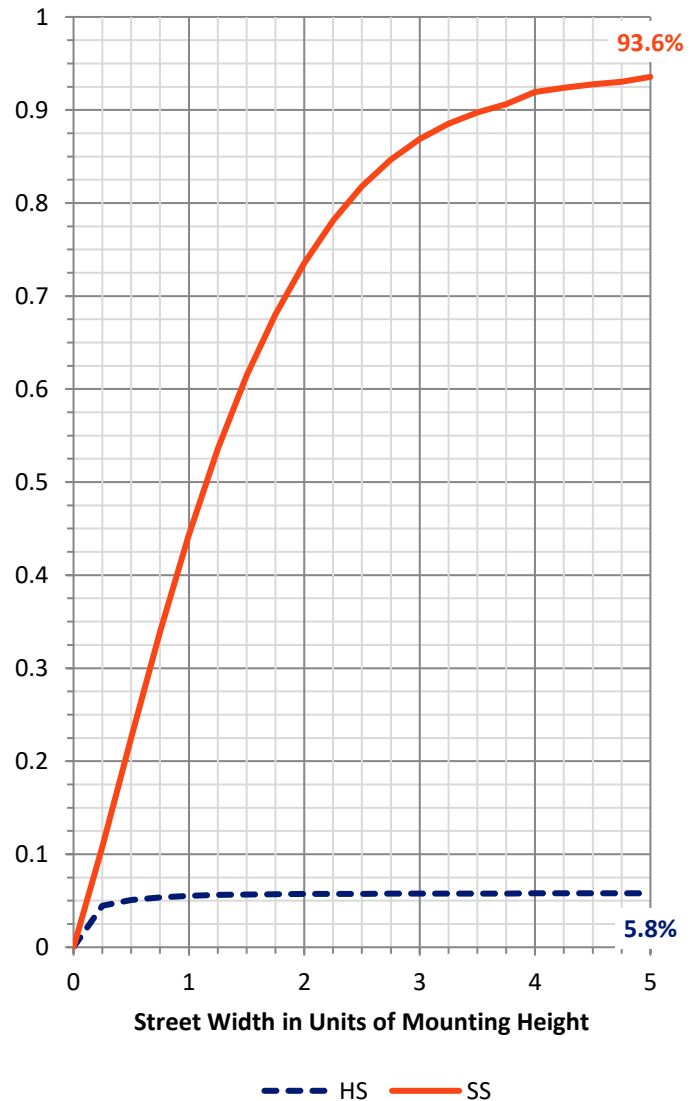
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1844.4	0.0	1844.4
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	29680.6	0.0	29680.6
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	31525.0	0.0	31525.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	381.9	1.2
10°-20°	939.1	3.0
20°-30°	1581.8	5.0
30°-40°	2589.5	8.2
40°-50°	4483.6	14.2
50°-60°	7062.2	22.4
60°-70°	9222.9	29.3
70°-80°	4750.2	15.1
80°-90°	513.8	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°	31525.0	100.0
0°-180°	31525.0	100.0

**Coefficient of Utilization**



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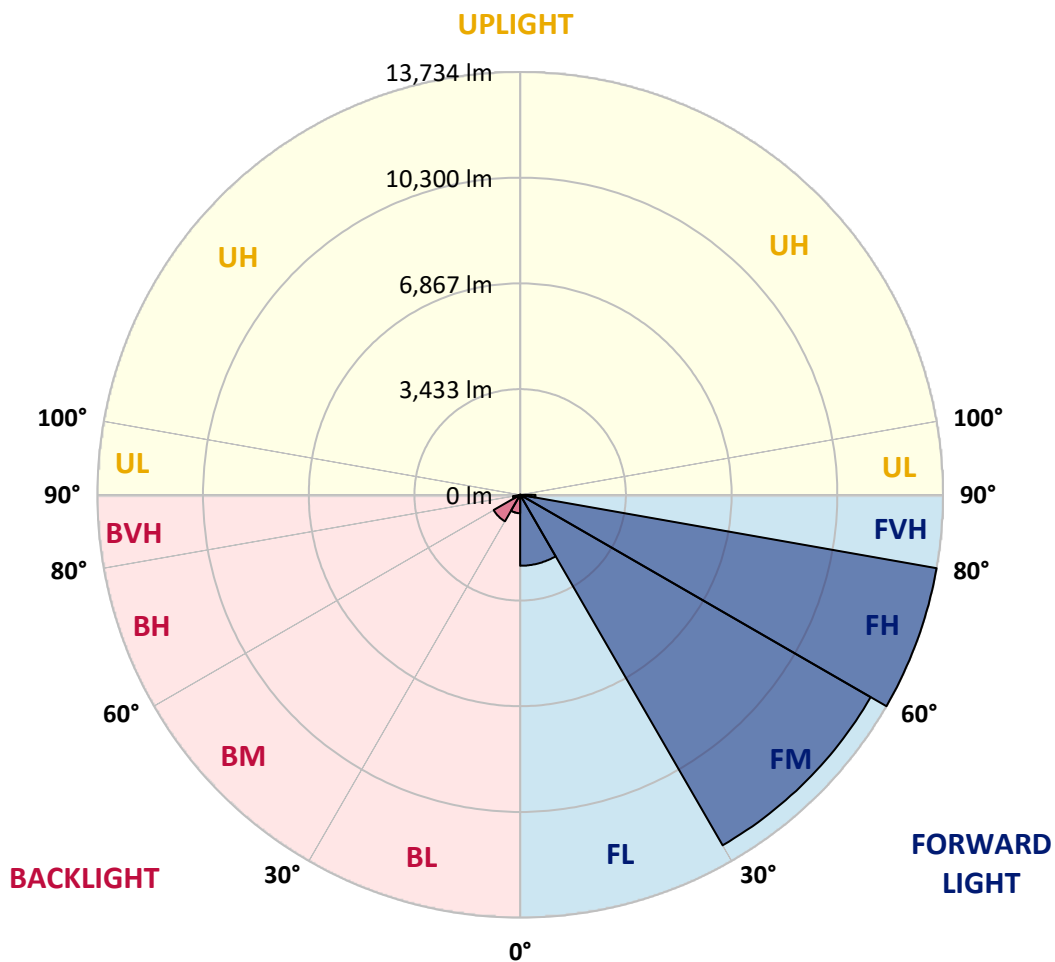
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2305.4	7.3			
FM	(30°-60°)	13143.9	41.7			
FH	(60°-80°)	13733.6	43.6			G5
FVH	(80°-90°)	497.7	1.6			G3/500
BL	(0°-30°)	597.5	1.9	B2/1000		
BM	(30°-60°)	991.3	3.1	B1/1000		
BH	(60°-80°)	239.5	0.8	B1/500		G1/500
BVH	(80°-90°)	16.1	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°	4710.0	4710.0	4710.0	4710.0	4710.0	4710.0	4710.0	4710.0	4710.0	4710.0	4710.0
2.5°	5171.6	5143.5	5126.6	5104.1	5075.9	5051.5	5042.1	4972.7	4907.0	4817.0	4713.8
5°	5267.3	5257.9	5227.9	5197.9	5164.1	5126.6	5105.9	5023.4	4929.5	4798.2	4618.0
7.5°	5276.7	5265.4	5227.9	5186.6	5139.7	5094.7	5059.0	4976.5	4890.1	4756.9	4537.4
10°	5261.7	5248.6	5220.4	5175.4	5117.2	5074.0	5038.4	4959.6	4886.4	4766.3	4522.3
12.5°	5244.8	5231.7	5218.5	5196.0	5145.3	5115.3	5085.3	5010.2	4944.6	4843.2	4576.8
15°	5261.7	5254.2	5269.2	5259.8	5231.7	5205.4	5175.4	5107.8	5047.8	4963.3	4676.2
17.5°	5333.0	5333.0	5379.9	5385.5	5359.3	5321.7	5278.6	5211.0	5160.4	5089.0	4794.4
20°	5500.0	5494.4	5554.4	5565.7	5501.9	5443.7	5379.9	5297.3	5257.9	5212.9	4910.8
22.5°	5787.1	5760.8	5796.5	5785.2	5659.5	5569.4	5490.6	5389.3	5368.6	5348.0	5040.3
25°	6160.5	6145.5	6169.9	6059.2	5837.8	5715.8	5622.0	5507.5	5507.5	5528.1	5186.6
27.5°	6702.8	6646.5	6564.0	6368.8	6036.7	5880.9	5779.6	5657.6	5689.5	5766.5	5379.9
30°	7258.3	7196.4	7006.8	6706.6	6278.7	6115.5	5997.3	5869.7	5944.7	6085.5	5638.9
32.5°	7806.2	7736.8	7468.4	7089.4	6625.9	6462.6	6348.2	6207.4	6333.2	6569.6	6017.9
35°	8337.3	8275.3	7965.7	7519.1	7087.5	6952.4	6847.3	6725.4	6886.7	7217.0	6552.7
37.5°	8934.0	8866.4	8489.3	8005.1	7648.6	7551.0	7474.1	7352.1	7633.6	8117.7	7297.7
40°	9667.7	9553.2	9044.7	8562.4	8297.9	8250.9	8198.4	8181.5	8618.7	9288.6	8290.3
42.5°	10508.4	10320.7	9626.4	9149.8	9010.9	9044.7	9031.6	9106.6	9851.6	10744.8	9498.8
45°	11349.0	11107.0	10273.8	9776.5	9795.3	9913.5	9986.7	10286.9	11395.9	12414.9	10799.2
47.5°	12062.1	11823.8	10894.9	10453.9	10679.1	10911.8	11110.7	11679.3	12983.5	14058.7	11810.6
50°	12672.0	12446.8	11553.6	11198.9	11705.6	12080.9	12403.6	13246.2	14691.1	15310.3	12520.0
52.5°	13171.1	13021.0	12236.6	12052.7	12878.4	13428.2	13901.1	14910.6	16203.5	16327.4	13071.6
55°	13657.1	13550.2	12970.3	13067.9	14255.7	15004.4	15603.0	16676.4	17505.8	17175.5	13600.8
57.5°	14216.3	14118.7	13807.2	14355.2	16066.5	17008.5	17661.6	18241.4	18652.3	18042.5	14100.0
60°	14786.8	14730.5	14738.0	15785.1	18145.7	19050.2	19410.4	19560.6	19778.2	18858.8	14128.1
62.5°	15330.9	15437.9	15801.9	17376.3	20136.6	20830.9	21013.0	21161.2	20906.0	18988.2	13052.9
65°	16252.3	16426.8	17295.6	19506.1	22326.5	23069.6	23257.3	22748.7	21084.3	17314.4	10617.2
67.5°	16702.7	17021.7	18571.6	21491.5	24450.7	25276.4	25206.9	22851.9	18920.7	13203.0	6813.5
69°	16608.8	16948.5	18866.3	22099.5	25156.3	25905.0	25464.0	21589.1	16119.1	9564.5	4182.7
70°	16237.3	16580.7	18714.3	22076.9	25246.3	25839.3	24987.4	20029.7	13629.0	6993.7	2615.8
72.5°	13559.5	13856.0	16614.5	19954.6	23257.3	22775.0	20904.1	13876.7	6640.9	1904.6	589.2
75°	8346.6	8511.8	11921.4	15032.6	17565.8	16327.4	13927.3	6903.6	1979.7	538.6	326.5
77.5°	4409.8	4484.8	6526.4	8860.8	11135.1	9213.6	7138.2	2692.8	912.0	337.8	236.4
80°	2606.4	2662.7	3514.7	4051.3	4818.8	4025.1	2854.1	1653.2	653.0	212.0	210.2
82.5°	1491.8	1527.5	2548.3	2251.8	1899.0	1621.3	1420.5	1566.9	392.2	142.6	217.7
85°	547.9	555.4	1433.6	1713.2	1129.6	671.8	705.6	1298.5	105.1	90.1	170.8
87.5°	255.2	249.6	737.5	1049.0	660.5	426.0	549.8	285.2	41.3	58.2	46.9
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°	4710.0	4710.0	4710.0	4710.0	4710.0	4710.0	4710.0	4710.0	4710.0	4710.0	4710.0
2.5°	4653.7	4584.3	4458.5	4329.1	4197.7	4096.4	3996.9	3918.1	3891.8	3843.1	3846.8
5°	4511.1	4383.5	4120.8	3854.3	3576.6	3347.7	3131.9	2957.4	2872.9	2786.6	2786.6
7.5°	4387.2	4201.5	3790.5	3357.0	2908.6	2531.4	2191.7	1936.5	1795.8	1683.2	1681.3
10°	4340.3	4088.9	3514.7	2893.6	2268.7	1754.5	1351.1	1092.1	958.9	872.6	868.8
12.5°	4361.0	4049.5	3302.6	2465.7	1681.3	1127.8	782.5	615.5	559.2	532.9	532.9
15°	4421.0	4038.2	3090.6	2047.3	1187.8	705.6	519.8	474.8	471.0	471.0	471.0
17.5°	4494.2	4042.0	2872.9	1640.1	808.8	504.8	448.5	442.9	446.6	446.6	446.6
20°	4569.3	4043.8	2638.3	1262.9	570.5	439.1	422.2	420.3	424.1	424.1	426.0
22.5°	4661.2	4053.2	2403.8	943.9	471.0	414.7	401.6	401.6	403.4	403.4	401.6
25°	4766.3	4072.0	2159.8	699.9	429.7	397.8	386.6	384.7	386.6	384.7	382.8
27.5°	4897.6	4098.3	1887.8	547.9	411.0	380.9	371.5	371.5	369.7	367.8	365.9
30°	5062.8	4128.3	1581.9	465.4	392.2	365.9	356.5	354.7	352.8	349.0	349.0
32.5°	5314.2	4194.0	1279.8	422.2	371.5	345.3	337.8	337.8	334.0	330.3	328.4
35°	5700.8	4323.4	1009.6	395.9	349.0	322.8	313.4	313.4	309.6	307.7	305.9
37.5°	6235.6	4520.5	784.4	371.5	326.5	298.4	289.0	287.1	283.4	279.6	277.7
40°	6946.8	4764.4	617.4	349.0	304.0	274.0	266.5	262.7	255.2	249.6	249.6
42.5°	7840.0	5042.1	501.0	324.6	277.7	251.5	245.8	240.2	227.1	221.4	219.5
45°	8774.5	5291.7	424.1	296.5	251.5	228.9	225.2	215.8	198.9	193.3	193.3
47.5°	9448.1	5349.9	373.4	270.2	227.1	204.5	202.7	185.8	170.8	167.0	165.1
50°	9868.5	5235.4	332.1	243.9	204.5	182.0	176.4	155.7	146.4	142.6	140.7
52.5°	10151.8	5030.9	298.4	221.4	183.9	161.4	148.2	133.2	125.7	122.0	122.0
55°	10378.9	4741.9	264.6	200.8	167.0	144.5	125.7	114.5	107.0	103.2	103.2
57.5°	10442.7	4349.7	230.8	183.9	150.1	127.6	107.0	99.5	90.1	88.2	88.2
60°	9979.2	3642.3	204.5	163.3	135.1	110.7	93.8	84.4	75.1	73.2	71.3
62.5°	8757.6	2818.5	180.1	144.5	118.2	95.7	80.7	69.4	61.9	61.9	61.9
65°	6680.3	1889.6	157.6	125.7	103.2	80.7	69.4	56.3	52.5	52.5	54.4
67.5°	3998.8	1028.3	135.1	107.0	88.2	67.6	58.2	48.8	46.9	48.8	48.8
69°	2343.7	604.2	122.0	95.7	76.9	60.0	50.7	43.2	46.9	48.8	48.8
70°	1446.8	407.2	112.6	86.3	69.4	54.4	46.9	41.3	45.0	46.9	46.9
72.5°	403.4	210.2	90.1	67.6	56.3	45.0	37.5	37.5	43.2	45.0	45.0
75°	262.7	155.7	69.4	50.7	43.2	35.7	31.9	35.7	41.3	43.2	43.2
77.5°	217.7	127.6	56.3	41.3	35.7	33.8	30.0	31.9	37.5	39.4	39.4
80°	198.9	90.1	45.0	37.5	31.9	30.0	28.1	26.3	33.8	35.7	35.7
82.5°	189.5	71.3	39.4	33.8	30.0	26.3	24.4	26.3	30.0	31.9	33.8
85°	118.2	46.9	35.7	31.9	26.3	24.4	24.4	24.4	28.1	30.0	30.0
87.5°	43.2	37.5	31.9	26.3	22.5	22.5	22.5	22.5	24.4	28.1	28.1
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)