

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: P193758

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193758  
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-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 3000K, 1050mA 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: 39019 lumens  
Efficiency: N/A  
Efficacy: 69.9 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): 558  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

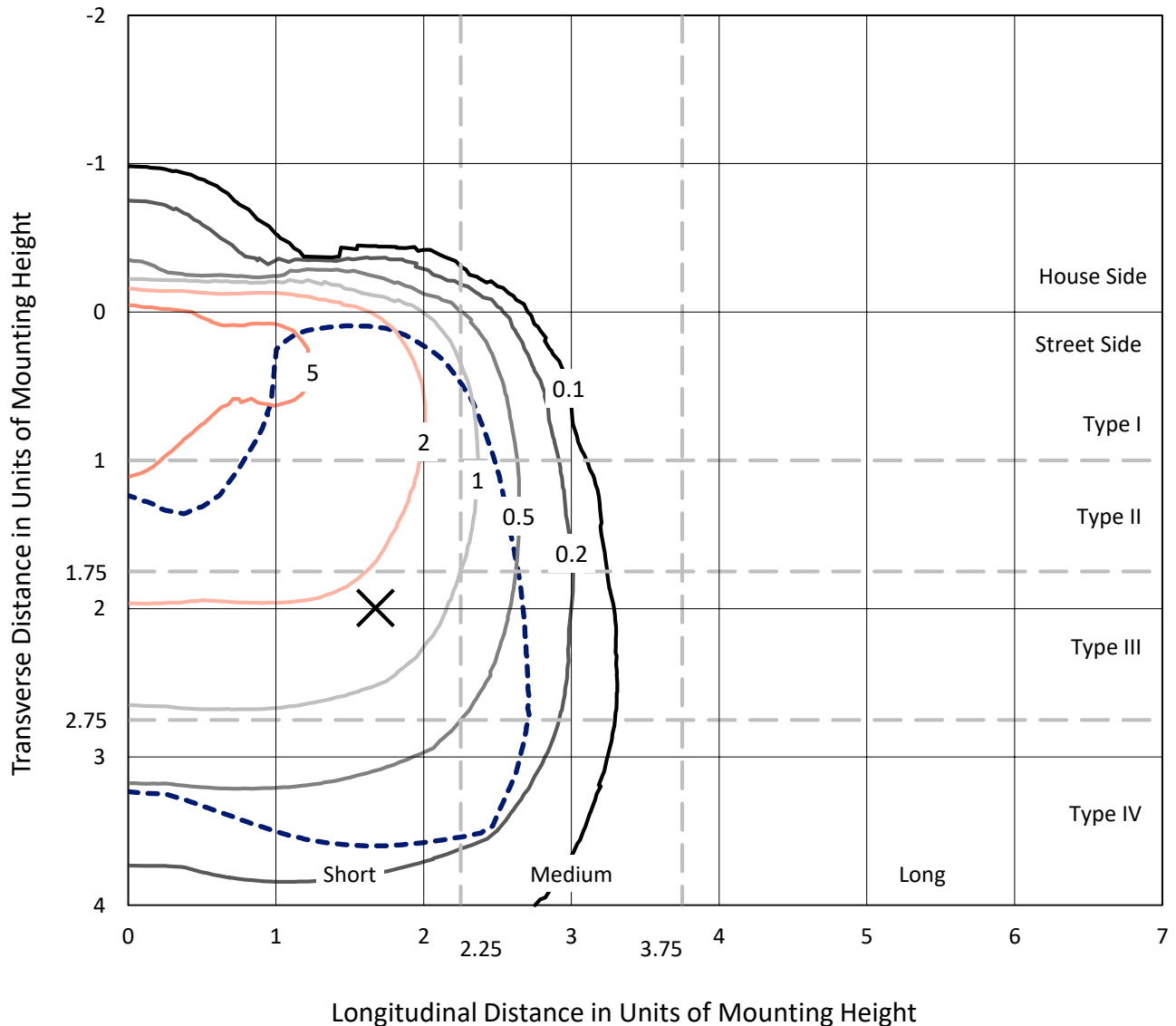


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

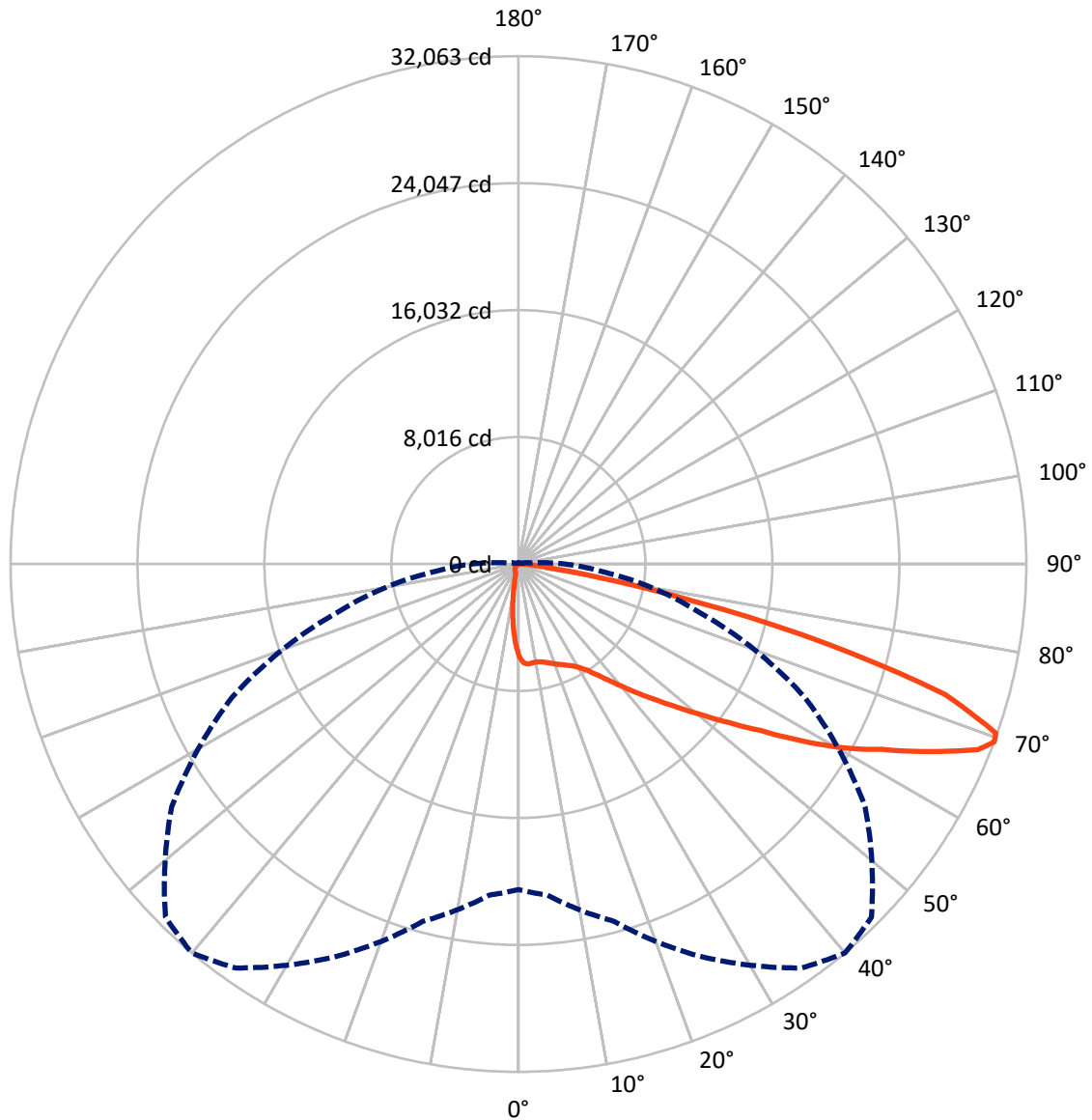


Based on 30 foot mounting height. Maximum calculated value = 7.1 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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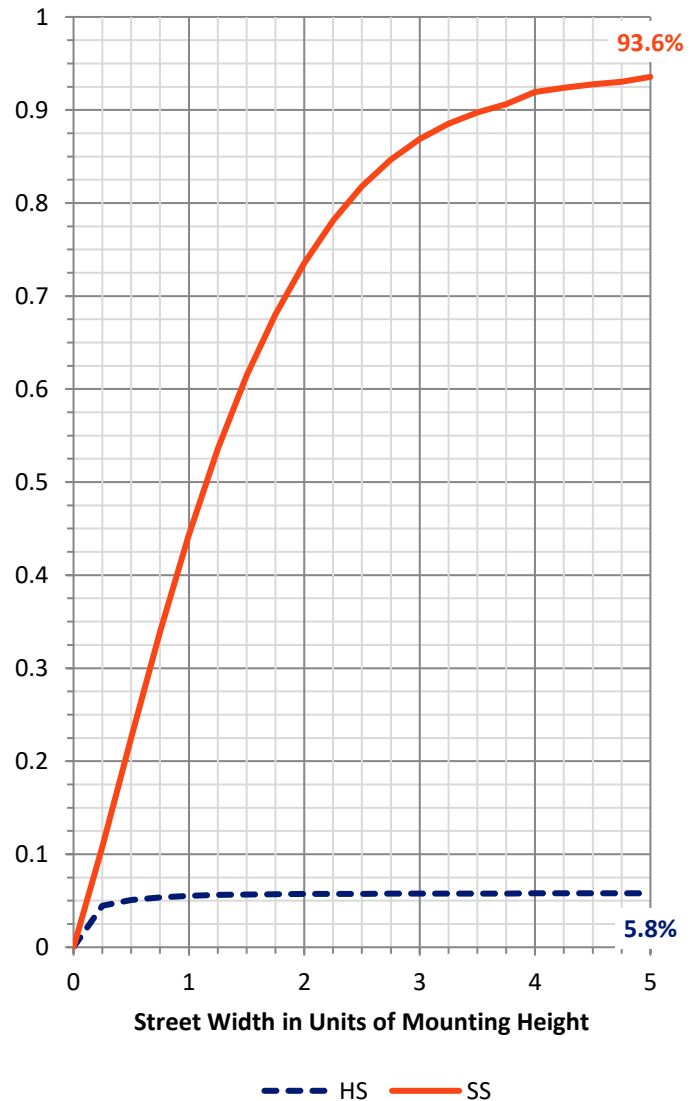
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2282.8	0.0	2282.8
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	36736.2	0.0	36736.2
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	39019.0	0.0	39019.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	472.7	1.2
10°-20°	1162.4	3.0
20°-30°	1957.8	5.0
30°-40°	3205.1	8.2
40°-50°	5549.5	14.2
50°-60°	8740.9	22.4
60°-70°	11415.3	29.3
70°-80°	5879.4	15.1
80°-90°	636.0	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°	39019.0	100.0
0°-180°	39019.0	100.0



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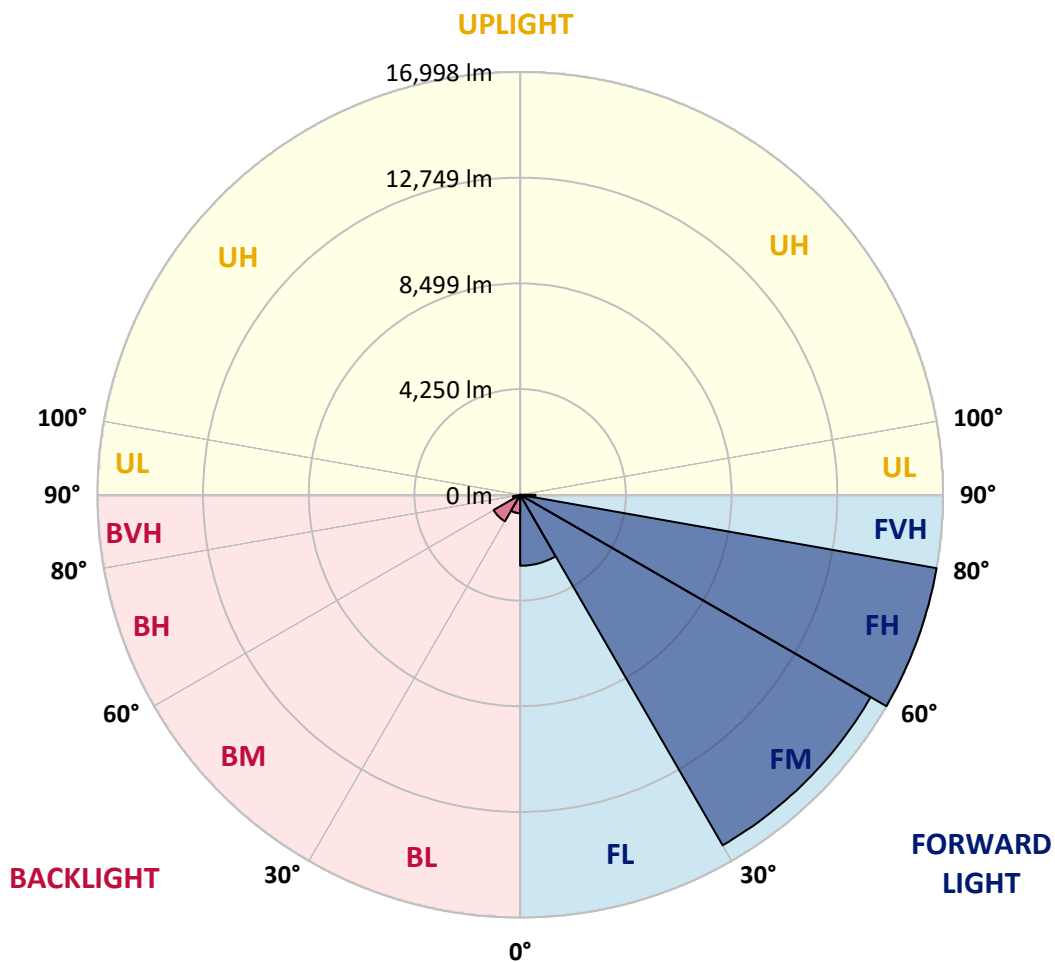
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2853.4	7.3			
FM	(30°-60°)	16268.5	41.7			
FH	(60°-80°)	16998.3	43.6			G5
FVH	(80°-90°)	616.0	1.6			G4/750
BL	(0°-30°)	739.5	1.9	B2/1000		
BM	(30°-60°)	1227.0	3.1	B2/2500		
BH	(60°-80°)	296.4	0.8	B1/500		G1/500
BVH	(80°-90°)	20.0	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°	5829.6	5829.6	5829.6	5829.6	5829.6	5829.6	5829.6	5829.6	5829.6	5829.6	5829.6
2.5°	6401.0	6366.2	6345.2	6317.4	6282.5	6252.3	6240.7	6154.8	6073.5	5962.0	5834.3
5°	6519.4	6507.8	6470.7	6433.5	6391.7	6345.2	6319.7	6217.5	6101.4	5938.8	5715.8
7.5°	6531.1	6517.1	6470.7	6419.6	6361.5	6305.8	6261.6	6159.4	6052.6	5887.7	5616.0
10°	6512.5	6496.2	6461.4	6405.6	6333.6	6280.2	6236.1	6138.5	6048.0	5899.3	5597.4
12.5°	6491.6	6475.3	6459.1	6431.2	6368.5	6331.3	6294.2	6201.2	6120.0	5994.5	5664.7
15°	6512.5	6503.2	6521.8	6510.2	6475.3	6442.8	6405.6	6322.0	6247.7	6143.2	5787.8
17.5°	6600.7	6600.7	6658.8	6665.8	6633.2	6586.8	6533.4	6449.8	6387.1	6298.8	5934.2
20°	6807.4	6800.5	6874.8	6888.7	6809.8	6737.8	6658.8	6556.6	6507.8	6452.1	6078.2
22.5°	7162.8	7130.3	7174.4	7160.5	7004.9	6893.4	6795.8	6670.4	6644.9	6619.3	6238.4
25°	7625.0	7606.4	7636.6	7499.6	7225.5	7074.5	6958.4	6816.7	6816.7	6842.3	6419.6
27.5°	8296.2	8226.5	8124.3	7882.8	7471.7	7278.9	7153.5	7002.5	7042.0	7137.2	6658.8
30°	8983.7	8907.0	8672.5	8300.8	7771.3	7569.2	7422.9	7265.0	7357.9	7532.1	6979.3
32.5°	9661.9	9575.9	9243.8	8774.7	8201.0	7998.9	7857.2	7683.0	7838.7	8131.3	7448.5
35°	10319.2	10242.5	9859.3	9306.5	8772.3	8605.1	8475.0	8324.1	8523.8	8932.6	8110.4
37.5°	11057.7	10974.1	10507.3	9908.1	9466.8	9346.0	9250.8	9099.8	9448.2	10047.4	9032.5
40°	11965.9	11824.2	11194.8	10597.9	10270.4	10212.3	10147.3	10126.4	10667.5	11496.7	10261.1
42.5°	13006.4	12774.1	11914.8	11324.8	11153.0	11194.8	11178.5	11271.4	12193.5	13299.0	11756.8
45°	14046.9	13747.3	12716.0	12100.6	12123.8	12270.1	12360.7	12732.3	14104.9	15366.1	13366.4
47.5°	14929.5	14634.5	13484.8	12939.0	13217.7	13505.7	13751.9	14455.6	16069.8	17400.7	14618.2
50°	15684.3	15405.6	14300.0	13861.1	14488.2	14952.7	15352.2	16395.0	18183.4	18949.8	15496.2
52.5°	16302.1	16116.3	15145.4	14917.8	15939.8	16620.3	17205.6	18455.1	20055.4	20208.6	16179.0
55°	16903.6	16771.2	16053.6	16174.3	17644.5	18571.2	19312.1	20640.6	21667.2	21258.4	16834.0
57.5°	17595.8	17475.0	17089.4	17767.6	19885.8	21051.7	21860.0	22577.7	23086.3	22331.5	17451.8
60°	18301.8	18232.1	18241.4	19537.4	22459.2	23578.7	24024.6	24210.4	24479.8	23341.8	17486.6
62.5°	18975.4	19107.7	19558.3	21507.0	24923.4	25782.8	26008.1	26191.6	25875.7	23502.0	16155.8
65°	20115.7	20331.7	21407.1	24143.1	27633.9	28553.6	28785.9	28156.5	26096.3	21430.3	13141.1
67.5°	20673.2	21068.0	22986.4	26600.3	30263.0	31285.0	31199.0	28284.2	23418.4	16341.6	8433.2
69°	20557.0	20977.4	23351.1	27352.9	31136.3	32063.0	31517.2	26721.1	19950.8	11838.1	5177.0
70°	20097.2	20522.2	23162.9	27325.0	31247.8	31981.7	30927.3	24791.1	16868.8	8656.2	3237.7
72.5°	16782.9	17149.8	20564.0	24698.2	28785.9	28189.0	25873.4	17175.4	8219.6	2357.4	729.3
75°	10330.8	10535.2	14755.3	18606.1	21741.5	20208.6	17238.1	8544.7	2450.3	666.6	404.1
77.5°	5458.0	5550.9	8077.9	10967.2	13782.1	11403.8	8835.0	3332.9	1128.8	418.1	292.6
80°	3226.0	3295.7	4350.2	5014.4	5964.3	4981.9	3532.6	2046.2	808.3	262.4	260.1
82.5°	1846.4	1890.6	3154.0	2787.1	2350.4	2006.7	1758.2	1939.3	485.4	176.5	269.4
85°	678.2	687.5	1774.4	2120.5	1398.2	831.5	873.3	1607.2	130.1	111.5	211.4
87.5°	315.9	308.9	912.8	1298.3	817.5	527.2	680.5	353.0	51.1	72.0	58.1
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°	5829.6	5829.6	5829.6	5829.6	5829.6	5829.6	5829.6	5829.6	5829.6	5829.6	5829.6
2.5°	5760.0	5674.0	5518.4	5358.2	5195.6	5070.2	4947.1	4849.5	4817.0	4756.6	4761.3
5°	5583.4	5425.5	5100.4	4770.5	4426.8	4143.5	3876.4	3660.4	3555.8	3449.0	3449.0
7.5°	5430.2	5200.2	4691.6	4155.1	3600.0	3133.1	2712.8	2396.9	2222.7	2083.3	2081.0
10°	5372.1	5060.9	4350.2	3581.4	2808.0	2171.6	1672.2	1351.7	1186.8	1080.0	1075.3
12.5°	5397.6	5012.1	4087.7	3051.9	2081.0	1395.9	968.5	761.8	692.1	659.6	659.6
15°	5472.0	4998.2	3825.3	2533.9	1470.2	873.3	643.4	587.6	583.0	583.0	583.0
17.5°	5562.5	5002.8	3555.8	2029.9	1001.0	624.8	555.1	548.1	552.8	552.8	552.8
20°	5655.4	5005.1	3265.5	1563.1	706.1	543.5	522.6	520.3	524.9	524.9	527.2
22.5°	5769.3	5016.7	2975.2	1168.3	583.0	513.3	497.0	497.0	499.4	499.4	497.0
25°	5899.3	5040.0	2673.3	866.3	531.9	492.4	478.4	476.1	478.4	476.1	473.8
27.5°	6061.9	5072.5	2336.5	678.2	508.6	471.5	459.9	459.9	457.5	455.2	452.9
30°	6266.3	5109.6	1957.9	576.0	485.4	452.9	441.3	439.0	436.6	432.0	432.0
32.5°	6577.5	5190.9	1584.0	522.6	459.9	427.4	418.1	418.1	413.4	408.8	406.4
35°	7056.0	5351.2	1249.5	490.1	432.0	399.5	387.9	387.9	383.2	380.9	378.6
37.5°	7717.9	5595.1	970.8	459.9	404.1	369.3	357.7	355.4	350.7	346.1	343.7
40°	8598.1	5897.0	764.1	432.0	376.3	339.1	329.8	325.2	315.9	308.9	308.9
42.5°	9703.7	6240.7	620.1	401.8	343.7	311.2	304.3	297.3	281.0	274.1	271.7
45°	10860.3	6549.6	524.9	367.0	311.2	283.4	278.7	267.1	246.2	239.2	239.2
47.5°	11694.1	6621.6	462.2	334.4	281.0	253.2	250.8	229.9	211.4	206.7	204.4
50°	12214.4	6480.0	411.1	301.9	253.2	225.3	218.3	192.8	181.2	176.5	174.2
52.5°	12565.1	6226.8	369.3	274.1	227.6	199.7	183.5	164.9	155.6	151.0	151.0
55°	12846.1	5869.1	327.5	248.5	206.7	178.8	155.6	141.7	132.4	127.7	127.7
57.5°	12925.1	5383.7	285.7	227.6	185.8	157.9	132.4	123.1	111.5	109.2	109.2
60°	12351.4	4508.1	253.2	202.1	167.2	137.0	116.1	104.5	92.9	90.6	88.3
62.5°	10839.4	3488.5	223.0	178.8	146.3	118.5	99.9	85.9	76.6	76.6	76.6
65°	8268.3	2338.8	195.1	155.6	127.7	99.9	85.9	69.7	65.0	65.0	67.4
67.5°	4949.4	1272.8	167.2	132.4	109.2	83.6	72.0	60.4	58.1	60.4	60.4
69°	2900.9	747.9	151.0	118.5	95.2	74.3	62.7	53.4	58.1	60.4	60.4
70°	1790.7	504.0	139.4	106.8	85.9	67.4	58.1	51.1	55.7	58.1	58.1
72.5°	499.4	260.1	111.5	83.6	69.7	55.7	46.5	46.5	53.4	55.7	55.7
75°	325.2	192.8	85.9	62.7	53.4	44.1	39.5	44.1	51.1	53.4	53.4
77.5°	269.4	157.9	69.7	51.1	44.1	41.8	37.2	39.5	46.5	48.8	48.8
80°	246.2	111.5	55.7	46.5	39.5	37.2	34.8	32.5	41.8	44.1	44.1
82.5°	234.6	88.3	48.8	41.8	37.2	32.5	30.2	32.5	37.2	39.5	41.8
85°	146.3	58.1	44.1	39.5	32.5	30.2	30.2	30.2	34.8	37.2	37.2
87.5°	53.4	46.5	39.5	32.5	27.9	27.9	27.9	27.9	30.2	34.8	34.8
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)