

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: P191224

Luminaire Tested: **GLEON-AF-06-LED-E1-SL4-1200-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191224  
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-06-LED-E1-SL4-1200-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 1200mA 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: 32424.5 lumens  
Efficiency: N/A  
Efficacy: 84.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G5

Input Watts (W): 382  
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

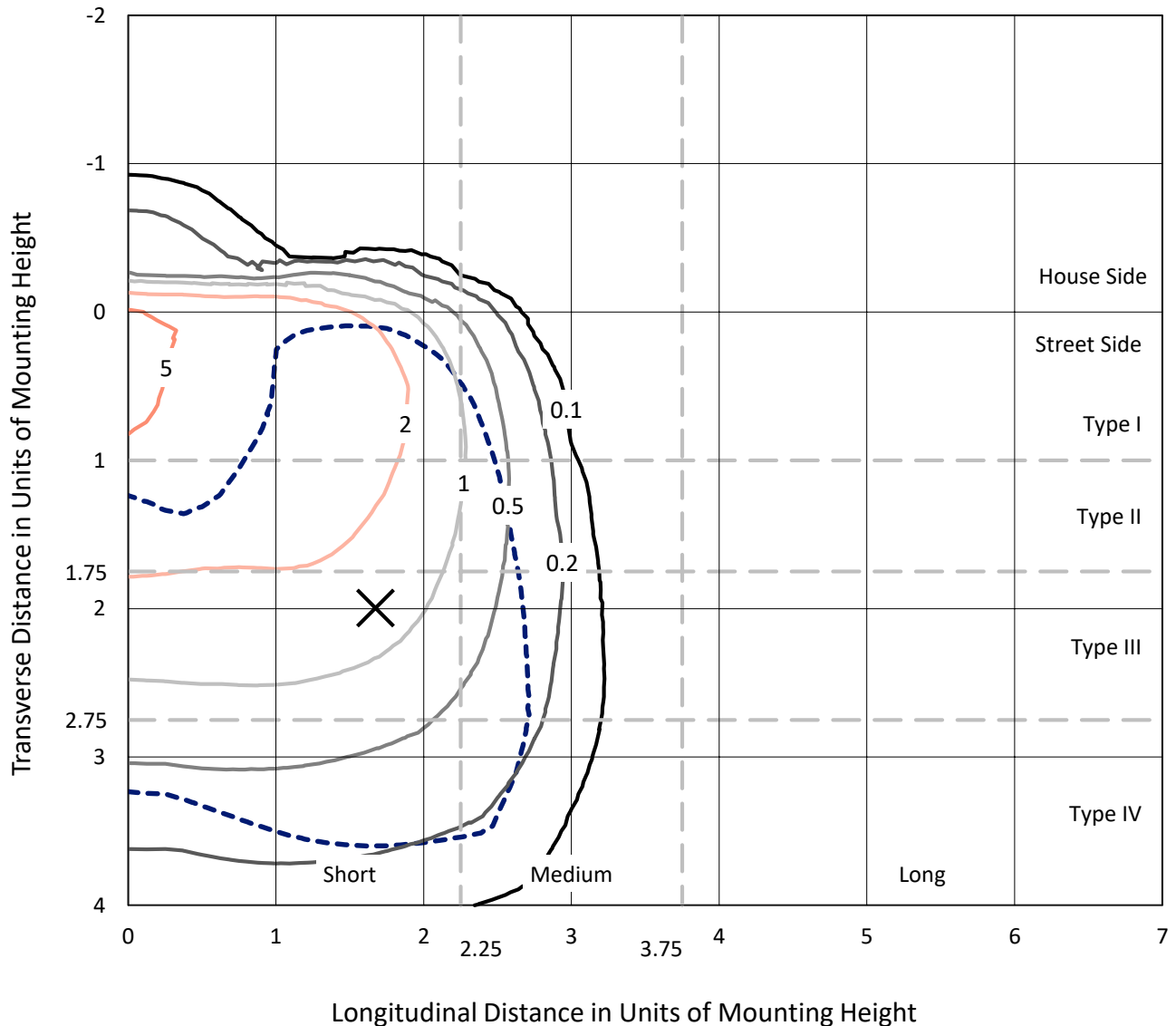


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

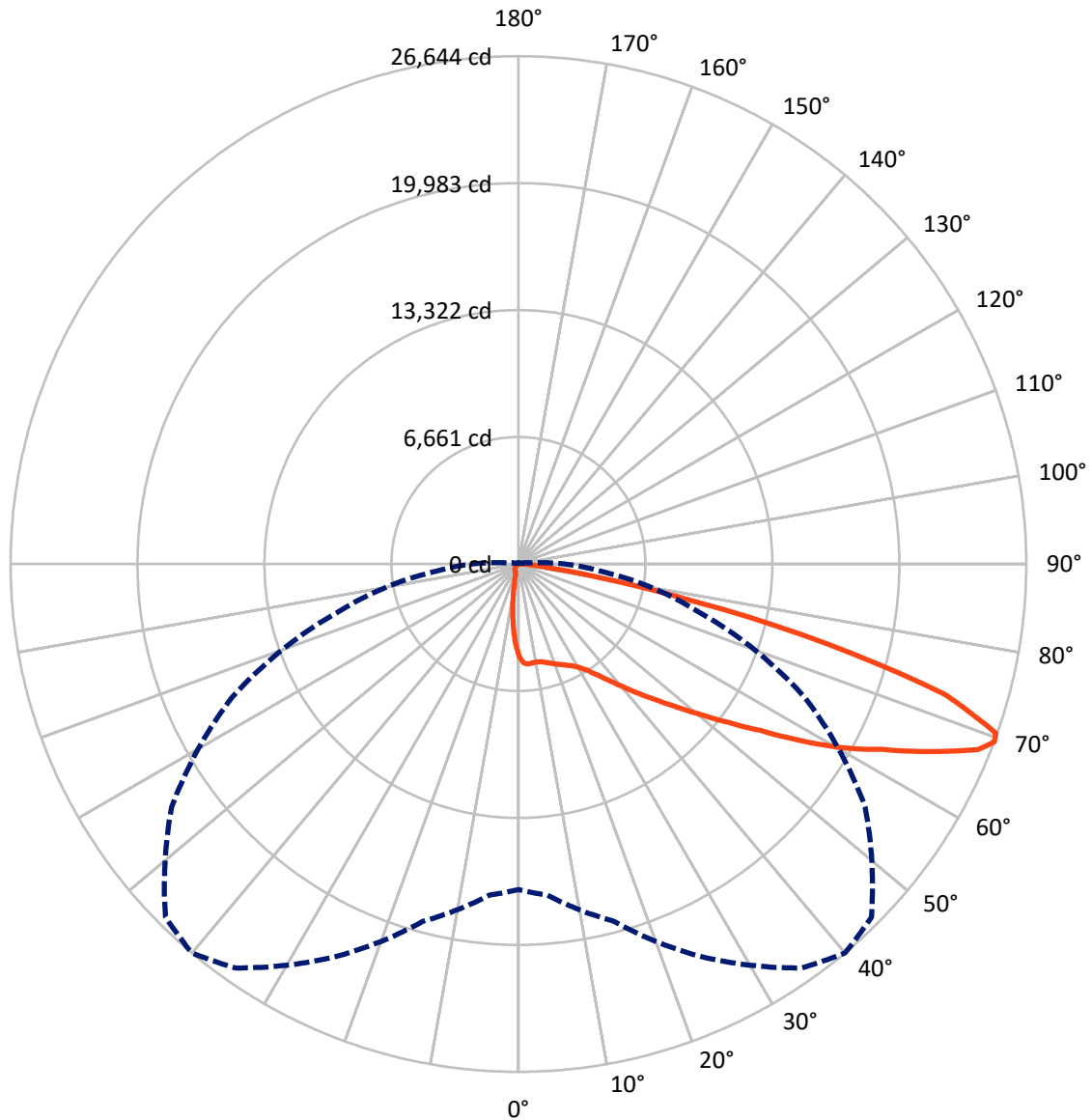


Based on 30 foot mounting height. Maximum calculated value = 5.9 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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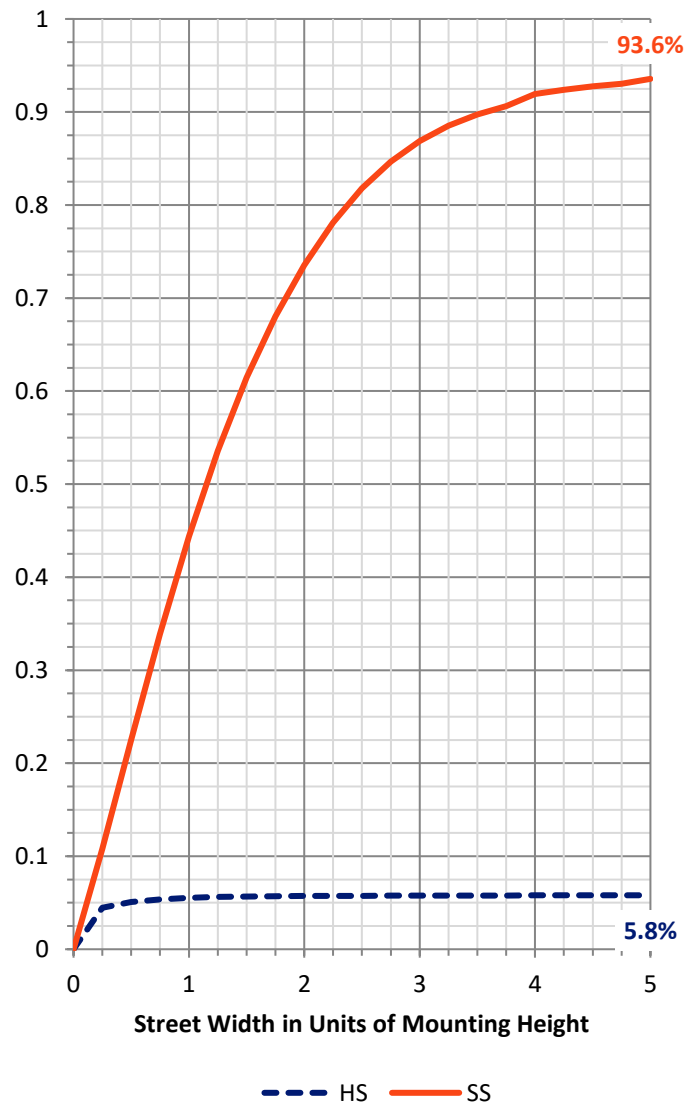
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1897.0	0.0	1897.0
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	30527.5	0.0	30527.5
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	32424.5	0.0	32424.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	392.8	1.2
10°-20°	965.9	3.0
20°-30°	1627.0	5.0
30°-40°	2663.4	8.2
40°-50°	4611.5	14.2
50°-60°	7263.6	22.4
60°-70°	9486.0	29.3
70°-80°	4885.7	15.1
80°-90°	528.5	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°	32424.5	100.0
0°-180°	32424.5	100.0

**Coefficient of Utilization**



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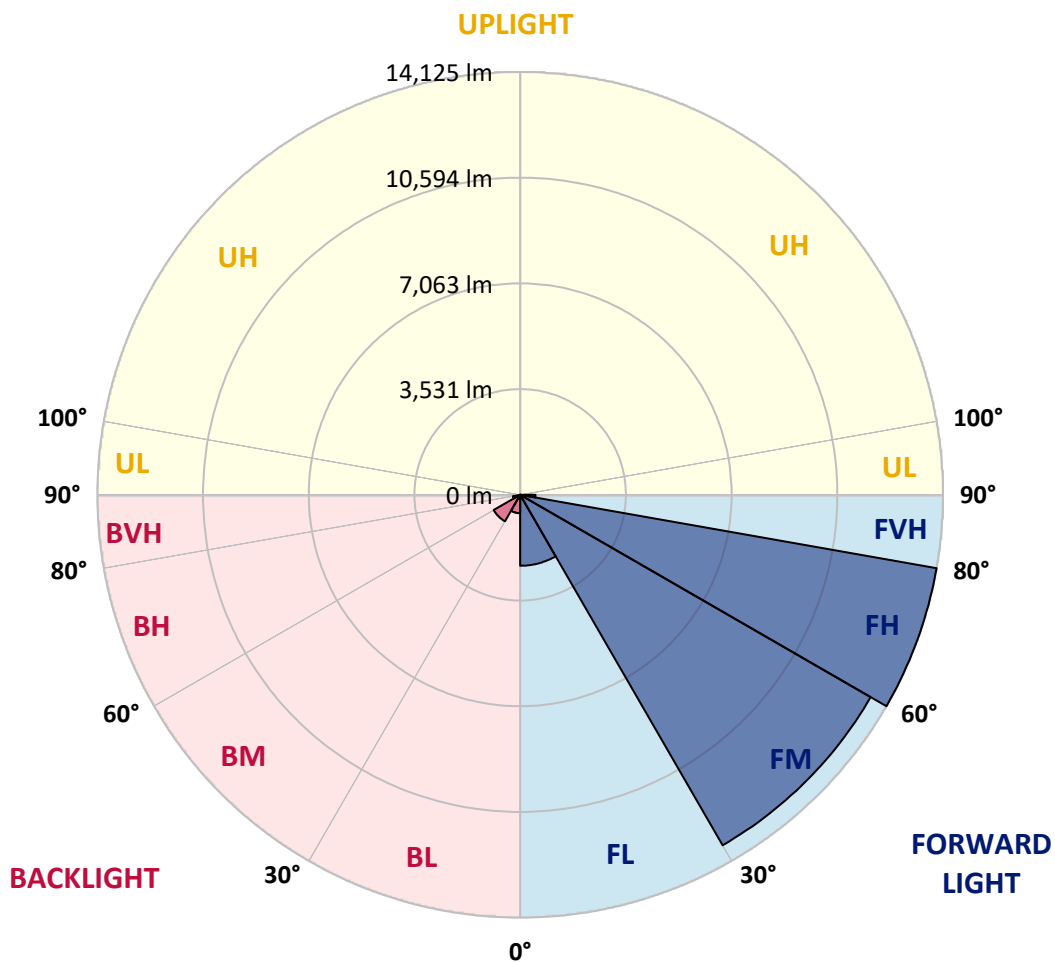
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2371.2	7.3			
FM	(30°-60°)	13519.0	41.7			
FH	(60°-80°)	14125.4	43.6			G5
FVH	(80°-90°)	511.9	1.6			G4/750
BL	(0°-30°)	614.5	1.9	B2/1000		
BM	(30°-60°)	1019.6	3.1	B2/2500		
BH	(60°-80°)	246.3	0.8	B1/500		G1/500
BVH	(80°-90°)	16.6	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°	4844.4	4844.4	4844.4	4844.4	4844.4	4844.4	4844.4	4844.4	4844.4	4844.4	4844.4
2.5°	5319.1	5290.2	5272.8	5249.7	5220.7	5195.7	5186.0	5114.5	5047.0	4954.4	4848.3
5°	5417.6	5407.9	5377.0	5346.1	5311.5	5272.8	5251.6	5166.7	5070.2	4935.1	4749.8
7.5°	5427.3	5415.7	5377.0	5334.6	5286.4	5240.1	5203.3	5118.4	5029.6	4892.7	4666.8
10°	5411.8	5398.3	5369.4	5323.0	5263.2	5218.8	5182.2	5101.0	5025.8	4902.3	4651.4
12.5°	5394.4	5380.9	5367.4	5344.3	5292.1	5261.2	5230.3	5153.2	5085.6	4981.5	4707.3
15°	5411.8	5404.0	5419.5	5409.9	5380.9	5353.9	5323.0	5253.6	5191.8	5104.9	4809.6
17.5°	5485.2	5485.2	5533.4	5539.2	5512.2	5473.6	5429.2	5359.8	5307.6	5234.2	4931.2
20°	5656.9	5651.1	5712.9	5724.4	5658.9	5599.0	5533.4	5448.4	5407.9	5361.6	5050.9
22.5°	5952.2	5925.2	5961.9	5950.3	5821.0	5728.3	5647.3	5543.1	5521.8	5500.6	5184.1
25°	6336.3	6320.8	6346.0	6232.1	6004.3	5878.9	5782.3	5664.7	5664.7	5685.9	5334.6
27.5°	6894.1	6836.2	6751.3	6550.6	6208.9	6048.7	5944.5	5819.1	5851.9	5931.0	5533.4
30°	7465.4	7401.7	7206.8	6898.0	6457.9	6290.0	6168.4	6037.1	6114.4	6259.1	5799.7
32.5°	8028.9	7957.5	7681.5	7291.7	6814.9	6647.0	6529.3	6384.5	6513.8	6757.0	6189.6
35°	8575.1	8511.5	8193.0	7733.6	7289.8	7150.7	7042.7	6917.2	7083.2	7422.9	6739.7
37.5°	9188.9	9119.4	8731.5	8233.5	7866.8	7766.4	7687.3	7561.9	7851.4	8349.3	7505.9
40°	9943.5	9825.7	9302.7	8806.8	8534.6	8486.4	8432.3	8414.9	8864.7	9553.6	8526.9
42.5°	10808.2	10615.2	9901.0	9410.8	9268.0	9302.7	9289.2	9366.4	10132.6	11051.3	9769.8
45°	11672.8	11423.9	10567.0	10055.5	10074.7	10196.4	10271.7	10580.5	11721.1	12769.1	11107.3
47.5°	12406.2	12161.1	11205.8	10752.2	10983.8	11223.1	11427.7	12012.5	13353.9	14459.8	12147.6
50°	13033.5	12801.9	11883.2	11518.4	12039.5	12425.6	12757.5	13624.1	15110.2	15747.1	12877.2
52.5°	13546.9	13392.5	12585.8	12396.6	13245.8	13811.3	14297.7	15336.1	16665.8	16793.2	13444.6
55°	14046.8	13936.8	13340.4	13440.8	14662.5	15432.5	16048.3	17152.2	18005.3	17665.5	13988.9
57.5°	14622.0	14521.6	14201.2	14764.8	16525.0	17493.8	18165.5	18761.8	19184.5	18557.2	14502.3
60°	15208.6	15150.7	15158.5	16235.5	18663.4	19593.7	19964.2	20118.7	20342.5	19396.8	14531.2
62.5°	15768.4	15878.3	16252.8	17872.1	20711.2	21425.3	21612.5	21765.0	21502.5	19530.0	13425.3
65°	16716.0	16895.5	17789.1	20062.7	22963.5	23727.9	23920.8	23397.7	21685.8	17808.4	10920.1
67.5°	17179.2	17507.3	19101.6	22104.6	25148.3	25997.6	25926.2	23503.9	19460.5	13579.7	7007.9
69°	17082.8	17432.1	19404.6	22730.0	25874.0	26644.1	26190.5	22205.0	16579.0	9837.4	4302.0
70°	16700.6	17053.8	19248.3	22706.8	25966.7	26576.6	25700.3	20601.2	14017.8	7193.2	2690.5
72.5°	13946.4	14251.3	17088.5	20524.0	23920.8	23424.9	21500.6	14272.6	6830.3	1959.0	606.0
75°	8584.8	8754.6	12261.5	15461.5	18067.1	16793.2	14324.7	7100.6	2036.2	553.9	335.8
77.5°	4535.6	4612.8	6712.7	9113.6	11452.9	9476.4	7341.8	2769.6	938.0	347.4	243.2
80°	2680.8	2738.7	3614.9	4167.0	4956.3	4139.9	2935.6	1700.3	671.7	218.1	216.1
82.5°	1534.4	1571.0	2621.0	2316.1	1953.2	1667.5	1461.1	1611.6	403.3	146.7	223.9
85°	563.5	571.3	1474.6	1762.1	1161.9	690.9	725.7	1335.6	108.1	92.7	175.6
87.5°	262.5	256.7	758.5	1078.9	679.3	438.1	565.5	293.4	42.5	59.8	48.3
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°	4844.4	4844.4	4844.4	4844.4	4844.4	4844.4	4844.4	4844.4	4844.4	4844.4	4844.4
2.5°	4786.5	4715.1	4585.8	4452.6	4317.5	4213.2	4110.9	4029.9	4002.9	3952.7	3956.6
5°	4639.8	4508.6	4238.4	3964.2	3678.6	3443.2	3221.3	3041.7	2954.9	2866.1	2866.1
7.5°	4512.4	4321.4	3898.7	3452.9	2991.5	2603.6	2254.3	1991.8	1847.0	1731.2	1729.3
10°	4464.2	4205.6	3614.9	2976.1	2333.5	1804.6	1389.6	1123.3	986.2	897.4	893.6
12.5°	4485.4	4165.0	3396.8	2536.1	1729.3	1159.9	804.9	633.0	575.1	548.1	548.1
15°	4547.1	4153.4	3178.7	2105.6	1221.7	725.7	534.6	488.3	484.5	484.5	484.5
17.5°	4622.4	4157.3	2954.9	1686.8	831.9	519.1	461.2	455.5	459.3	459.3	459.3
20°	4699.6	4159.2	2713.6	1298.9	586.8	451.6	434.2	432.3	436.2	436.2	438.1
22.5°	4794.2	4168.8	2472.4	970.8	484.5	426.6	413.1	413.1	414.9	414.9	413.1
25°	4902.3	4188.2	2221.4	720.0	442.0	409.2	397.6	395.7	397.6	395.7	393.7
27.5°	5037.4	4215.2	1941.7	563.5	422.7	391.8	382.2	382.2	380.2	378.3	376.3
30°	5207.2	4246.1	1627.0	478.6	403.3	376.3	366.7	364.8	362.8	359.0	359.0
32.5°	5465.8	4313.6	1316.3	434.2	382.2	355.2	347.4	347.4	343.5	339.7	337.8
35°	5863.5	4446.8	1038.4	407.2	359.0	331.9	322.3	322.3	318.4	316.5	314.6
37.5°	6413.5	4649.4	806.8	382.2	335.8	306.9	297.3	295.3	291.4	287.6	285.6
40°	7145.0	4900.3	634.9	359.0	312.7	281.8	274.0	270.2	262.5	256.7	256.7
42.5°	8063.7	5186.0	515.4	333.9	285.6	258.6	252.9	247.0	233.5	227.7	225.8
45°	9024.9	5442.7	436.2	304.9	258.6	235.5	231.6	222.0	204.6	198.8	198.8
47.5°	9717.7	5502.6	384.1	277.9	233.5	210.4	208.5	191.1	175.6	171.8	169.8
50°	10150.0	5384.8	341.7	250.9	210.4	187.2	181.5	160.2	150.6	146.7	144.7
52.5°	10441.5	5174.4	306.9	227.7	189.1	166.0	152.5	137.1	129.3	125.4	125.4
55°	10675.0	4877.2	272.1	206.5	171.8	148.6	129.3	117.7	110.0	106.2	106.2
57.5°	10740.7	4473.8	237.4	189.1	154.4	131.2	110.0	102.3	92.7	90.7	90.7
60°	10263.9	3746.1	210.4	167.9	138.9	113.9	96.5	86.8	77.2	75.3	73.3
62.5°	9007.5	2898.9	185.3	148.6	121.6	98.4	83.0	71.4	63.7	63.7	63.7
65°	6871.0	1943.5	162.1	129.3	106.2	83.0	71.4	57.9	54.0	54.0	56.0
67.5°	4112.9	1057.6	138.9	110.0	90.7	69.5	59.8	50.2	48.3	50.2	50.2
69°	2410.6	621.4	125.4	98.4	79.2	61.8	52.1	44.4	48.3	50.2	50.2
70°	1488.1	418.8	115.8	88.8	71.4	56.0	48.3	42.5	46.3	48.3	48.3
72.5°	414.9	216.1	92.7	69.5	57.9	46.3	38.6	38.6	44.4	46.3	46.3
75°	270.2	160.2	71.4	52.1	44.4	36.6	32.8	36.6	42.5	44.4	44.4
77.5°	223.9	131.2	57.9	42.5	36.6	34.8	30.9	32.8	38.6	40.5	40.5
80°	204.6	92.7	46.3	38.6	32.8	30.9	28.9	27.0	34.8	36.6	36.6
82.5°	195.0	73.3	40.5	34.8	30.9	27.0	25.1	27.0	30.9	32.8	34.8
85°	121.6	48.3	36.6	32.8	27.0	25.1	25.1	25.1	28.9	30.9	30.9
87.5°	44.4	38.6	32.8	27.0	23.1	23.1	23.1	23.1	25.1	28.9	28.9
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)