

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: P191263

Luminaire Tested: **GLEON-AF-05-LED-E1-SL4-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191263  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
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-SL4-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31722.7 lumens  
Efficiency: N/A  
Efficacy: 99.1 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

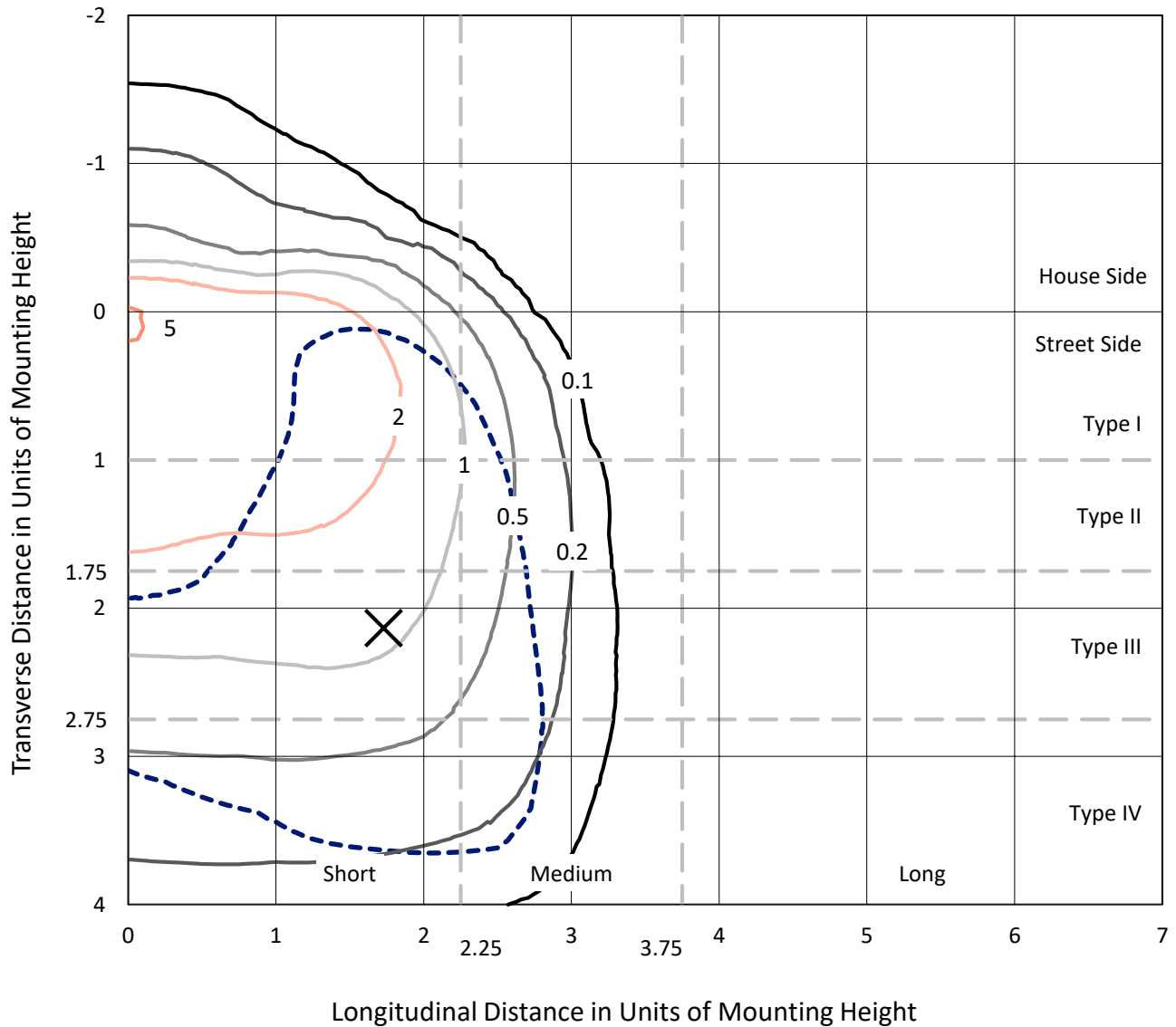
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

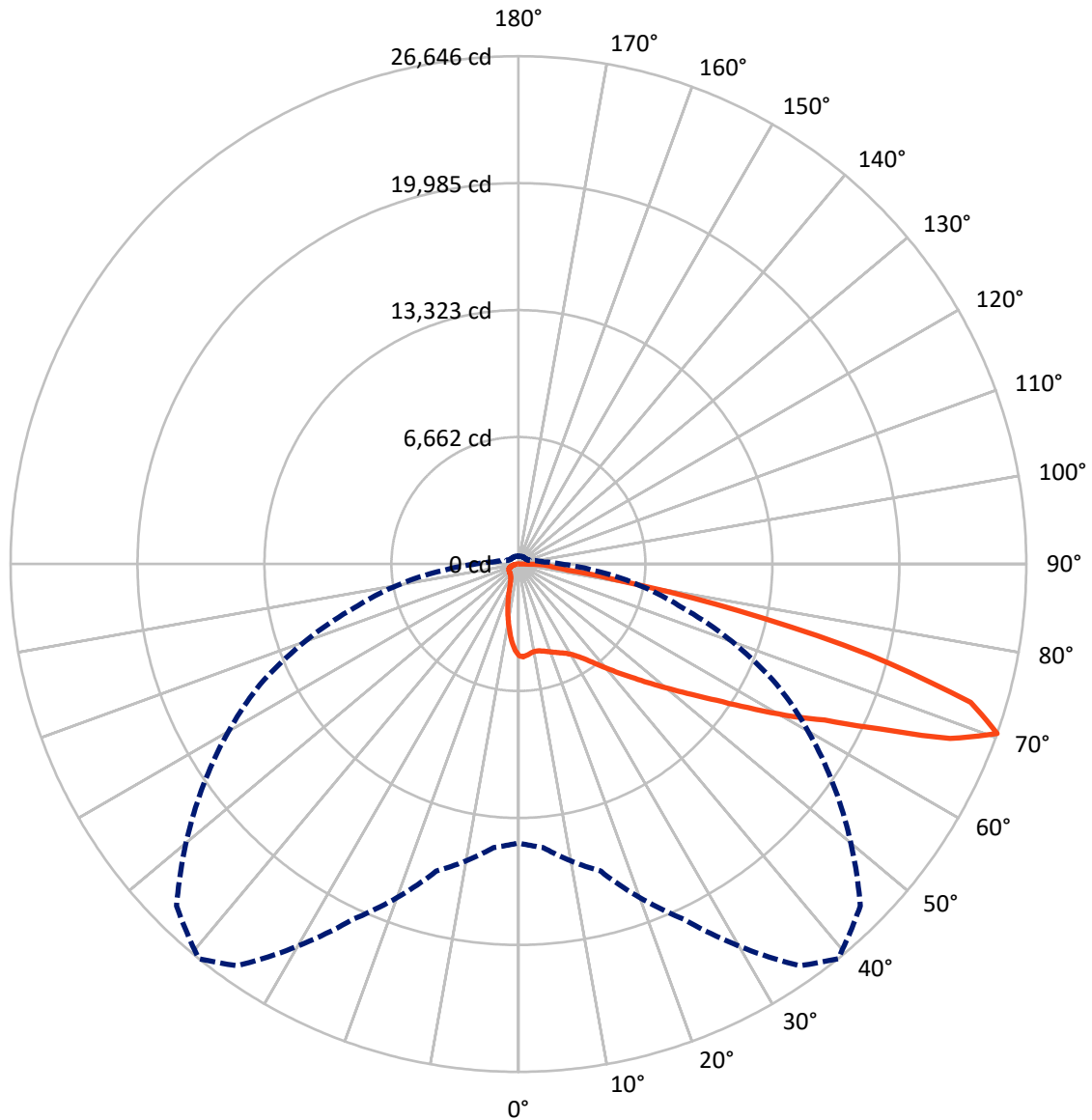
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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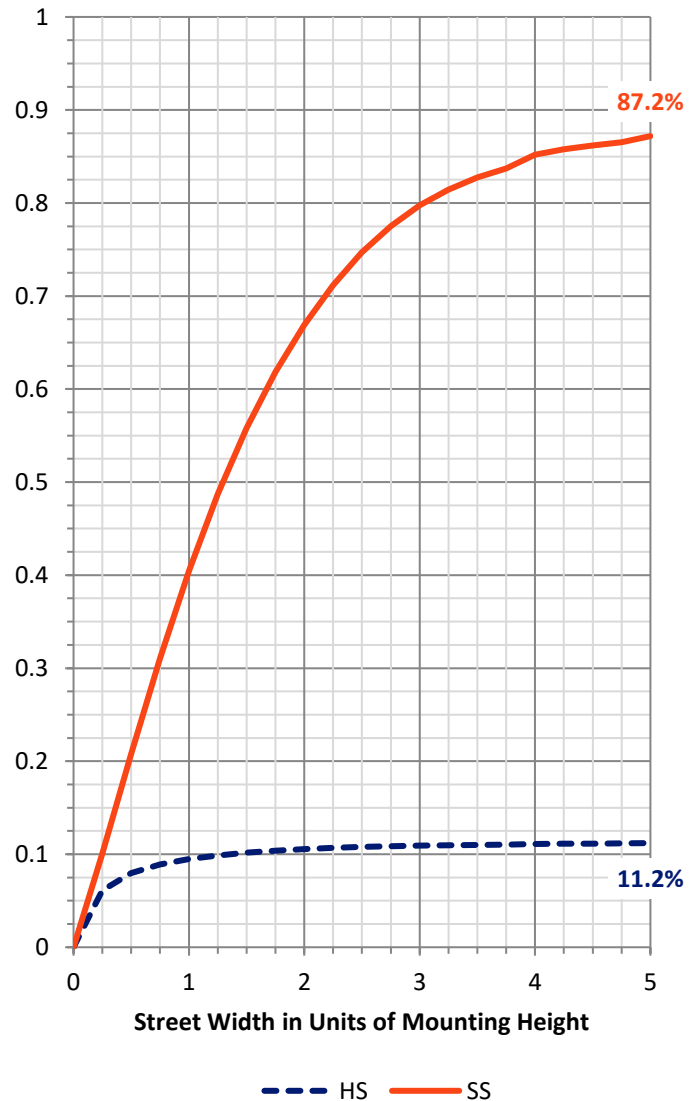
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3608.0	0.0	3608.0
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	28114.8	0.0	28114.8
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	31722.7	0.0	31722.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	413.3	1.3
10°-20°	1033.1	3.3
20°-30°	1608.6	5.1
30°-40°	2505.9	7.9
40°-50°	4206.9	13.3
50°-60°	6683.0	21.1
60°-70°	8914.4	28.1
70°-80°	5383.2	17.0
80°-90°	974.3	3.1
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°	31722.7	100.0
0°-180°	31722.7	100.0



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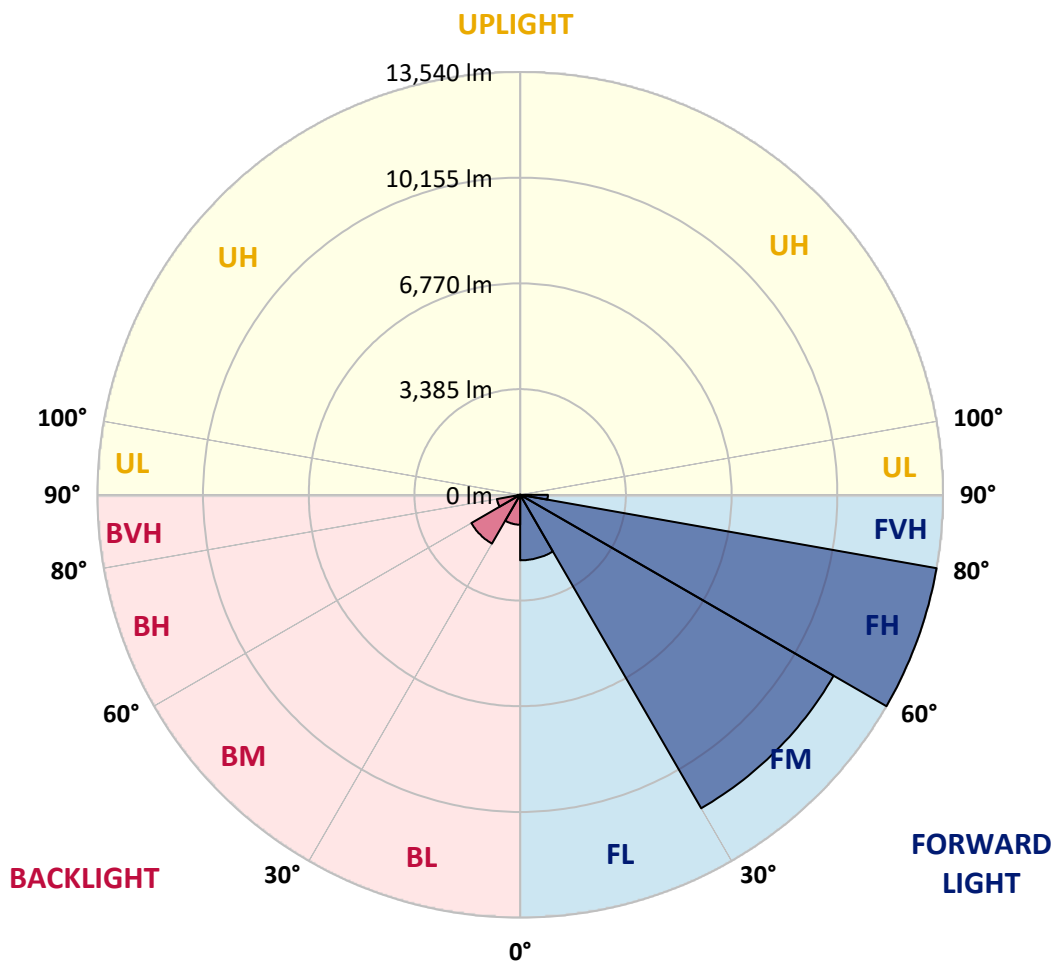
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2097.9	6.6			
FM	(30°-60°)	11590.3	36.5			
FH	(60°-80°)	13540.2	42.7			G5
FVH	(80°-90°)	886.5	2.8			G5
BL	(0°-30°)	957.1	3.0	B2/1000		
BM	(30°-60°)	1805.6	5.7	B2/2500		
BH	(60°-80°)	757.5	2.4	B2/1000		G2/1000
BVH	(80°-90°)	87.8	0.3			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°	39°	45°	55°	65°	75°	85°
0°	4816.1	4816.1	4816.1	4816.1	4816.1	4816.1	4816.1	4816.1	4816.1	4816.1	4816.1
2.5°	4909.6	4907.9	4895.0	4885.3	4877.3	4874.1	4880.5	4856.4	4835.4	4809.5	4782.1
5°	4872.4	4870.9	4849.9	4830.5	4811.1	4804.7	4803.1	4759.6	4733.7	4695.0	4643.4
7.5°	4832.1	4824.0	4796.6	4764.4	4730.5	4714.4	4698.3	4641.8	4612.8	4574.0	4514.4
10°	4790.2	4780.6	4754.7	4722.5	4690.2	4666.0	4638.6	4583.7	4553.2	4524.1	4454.7
12.5°	4746.7	4738.6	4732.2	4717.6	4695.0	4674.1	4653.1	4606.3	4574.0	4540.2	4459.6
15°	4740.1	4737.0	4751.5	4761.1	4748.2	4735.3	4712.7	4672.4	4638.6	4604.7	4499.9
17.5°	4791.8	4790.2	4827.3	4853.1	4846.6	4824.0	4793.4	4748.2	4720.8	4691.8	4561.1
20°	4904.7	4912.8	4957.9	4991.8	4959.6	4927.2	4877.3	4814.4	4799.9	4787.0	4624.0
22.5°	5117.6	5125.7	5157.9	5170.8	5086.9	5040.2	4970.8	4890.2	4880.5	4890.2	4699.8
25°	5449.9	5441.8	5437.0	5388.6	5235.4	5162.7	5074.0	4990.2	4995.1	5038.5	4806.3
27.5°	5890.2	5846.6	5778.9	5633.7	5390.1	5309.5	5201.5	5124.1	5154.8	5238.5	4966.0
30°	6346.6	6298.2	6141.8	5904.7	5593.4	5504.7	5383.7	5296.6	5377.2	5509.5	5178.9
32.5°	6769.2	6762.7	6533.7	6228.8	5874.0	5796.7	5675.6	5577.2	5708.0	5909.5	5498.3
35°	7230.4	7244.9	6970.8	6604.7	6253.1	6172.4	6085.3	6011.2	6185.3	6462.7	5961.1
37.5°	7724.0	7753.0	7428.9	7015.9	6685.3	6651.4	6599.9	6567.5	6836.9	7220.8	6607.9
40°	8383.7	8354.6	7904.6	7480.4	7215.9	7214.4	7198.2	7236.9	7685.3	8211.1	7438.5
42.5°	9090.0	9004.6	8409.5	7978.8	7798.2	7853.0	7885.3	8043.4	8706.2	9414.2	8451.4
45°	9851.3	9659.4	8933.6	8506.2	8445.0	8561.1	8670.7	9014.2	9907.8	10783.5	9561.0
47.5°	10459.4	10273.9	9475.6	9059.5	9193.3	9369.1	9580.3	10123.9	11253.0	12198.1	10656.2
50°	10938.4	10817.5	10022.4	9704.6	10017.5	10288.4	10633.6	11380.3	12652.9	13575.5	11670.6
52.5°	11402.9	11312.6	10573.9	10365.9	10985.2	11359.4	11828.7	12728.7	14088.4	14930.3	12523.9
55°	11822.2	11757.8	11167.5	11190.1	12123.9	12610.9	13201.3	14264.1	15652.8	16138.3	13246.4
57.5°	12294.8	12212.6	11844.8	12223.9	13586.7	14219.0	14986.7	15989.9	17120.5	17212.5	13796.4
60°	12770.6	12699.6	12596.4	13417.4	15444.7	16109.2	16836.6	17662.5	18609.2	18046.3	13764.1
62.5°	13183.5	13191.6	13373.9	14670.5	17264.0	18033.4	18920.5	19736.6	19955.9	18191.4	12746.5
65°	13883.5	14010.9	14554.4	16444.8	19825.3	20854.3	21943.0	21812.3	20328.5	16835.0	10564.2
67.5°	14715.8	14939.9	16041.5	18809.2	23062.3	24428.4	24849.3	22281.7	18836.6	13685.1	7530.5
70°	14631.9	14939.9	16683.4	20572.1	25730.0	26646.0	25368.7	20165.6	14957.7	8940.1	3999.9
72.5°	12993.2	13433.5	15375.4	19764.0	24889.6	24809.0	22023.6	15033.5	8886.9	3590.3	1562.9
75°	9903.0	10348.1	12019.1	15614.1	19672.1	18994.7	15627.0	8304.6	3372.5	1425.8	985.4
77.5°	5696.6	6041.8	7332.1	9575.5	12480.3	11785.2	8698.2	3693.5	1641.9	993.5	769.4
80°	3180.6	3372.5	4156.4	4857.9	6116.0	5606.3	3891.8	2295.1	1225.8	721.0	593.5
82.5°	2514.4	2685.5	3361.2	3064.5	2793.5	2577.3	2235.5	2043.4	979.0	454.8	354.9
85°	2196.7	2359.6	2845.1	2412.8	1908.0	1750.0	1816.0	2011.2	761.3	274.2	303.2
87.5°	2035.5	2253.2	2535.4	1859.6	1485.4	1316.1	1675.8	2204.8	245.2	170.9	122.5
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°	4816.1	4816.1	4816.1	4816.1	4816.1	4816.1	4816.1	4816.1	4816.1	4816.1	4816.1
2.5°	4757.9	4732.2	4690.2	4653.1	4595.0	4564.4	4530.5	4506.3	4487.0	4470.8	4496.7
5°	4611.2	4562.8	4474.1	4378.9	4266.0	4177.3	4103.2	4033.8	3985.4	3953.1	3975.7
7.5°	4472.4	4393.5	4254.8	4082.2	3888.6	3724.1	3588.6	3469.2	3387.0	3333.8	3354.8
10°	4393.5	4295.1	4080.6	3809.6	3524.1	3267.6	3054.7	2870.9	2743.5	2670.9	2682.2
12.5°	4374.0	4246.7	3949.9	3577.4	3187.0	2830.6	2530.6	2275.8	2096.7	2003.1	2006.4
15°	4388.6	4225.7	3827.3	3354.8	2861.2	2411.2	2037.0	1727.4	1519.3	1412.9	1411.3
17.5°	4412.8	4209.5	3698.3	3114.5	2530.6	2008.1	1590.3	1287.1	1103.2	1017.7	1011.3
20°	4438.6	4183.8	3553.1	2854.7	2187.1	1633.9	1245.1	1008.0	891.9	845.2	841.9
22.5°	4475.7	4161.2	3403.2	2580.6	1849.9	1330.7	1024.2	864.5	803.2	779.0	775.8
25°	4535.4	4149.9	3243.5	2295.1	1546.7	1112.9	891.9	793.5	758.0	741.9	740.3
27.5°	4635.4	4166.1	3093.5	2017.7	1300.0	966.1	817.7	758.0	732.2	717.7	716.1
30°	4764.4	4216.0	2935.4	1754.8	1108.1	866.1	772.5	733.9	712.9	698.4	698.4
32.5°	4978.9	4299.9	2769.3	1527.4	971.0	796.8	738.7	712.9	695.1	683.8	682.2
35°	5295.0	4457.9	2614.5	1338.6	872.6	746.8	709.6	690.3	677.4	671.0	671.0
37.5°	5754.7	4707.9	2477.4	1203.2	812.8	712.9	682.2	667.7	659.7	659.7	659.7
40°	6372.4	5053.1	2366.1	1112.9	779.0	688.7	661.2	650.0	645.2	646.7	646.7
42.5°	7135.3	5501.4	2291.9	1050.0	762.9	674.1	646.7	637.1	632.3	630.6	632.3
45°	8004.6	6011.2	2283.8	1003.2	746.8	664.5	637.1	627.4	617.8	611.3	611.3
47.5°	8849.8	6528.9	2349.9	987.0	729.1	653.3	629.0	619.3	604.9	590.3	590.3
50°	9596.5	6969.2	2438.6	993.5	722.6	637.1	616.1	611.3	588.7	572.5	570.9
52.5°	10190.0	7307.9	2511.2	1012.9	729.1	625.7	600.0	601.6	577.4	559.7	558.0
55°	10665.8	7530.5	2491.9	1032.3	743.5	619.3	585.4	588.7	569.4	551.6	551.6
57.5°	10873.9	7448.2	2277.4	1016.1	754.8	620.9	574.2	587.1	570.9	554.8	554.8
60°	10427.1	6717.5	1875.8	945.1	740.3	616.1	569.4	593.5	591.9	575.8	574.2
62.5°	9075.5	5409.6	1454.8	840.3	690.3	591.9	556.5	591.9	609.7	604.9	603.2
65°	6994.9	3853.1	1111.2	727.4	622.6	551.6	522.5	554.8	579.0	585.4	583.9
67.5°	4540.2	2361.3	856.4	620.9	546.8	504.8	479.0	493.6	498.4	498.4	495.1
70°	2232.2	1270.9	682.2	522.5	469.3	454.8	440.3	432.2	424.2	417.8	417.8
72.5°	1101.6	830.6	561.3	441.9	404.8	398.3	395.2	385.4	379.0	370.9	367.8
75°	814.5	675.8	477.4	372.6	348.4	342.0	348.4	340.3	338.7	332.3	329.0
77.5°	669.3	575.8	411.3	319.4	298.4	287.0	296.8	298.4	300.0	290.3	287.0
80°	543.5	487.1	343.5	264.5	245.2	237.1	243.6	256.5	259.6	245.2	238.7
82.5°	391.9	398.3	277.4	206.4	190.3	183.8	196.8	212.9	216.1	195.2	190.3
85°	329.0	332.3	212.9	146.8	130.6	121.0	141.9	158.0	169.4	148.4	143.5
87.5°	137.1	195.2	122.5	82.2	72.6	62.9	75.8	83.9	101.6	93.5	92.0
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)