

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: P194377

Luminaire Tested: **GLEON-AF-09-LED-E1-SL2-7060-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194377  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-09-LED-E1-SL2-7060-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29040 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G4

Input Watts (W): 290  
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

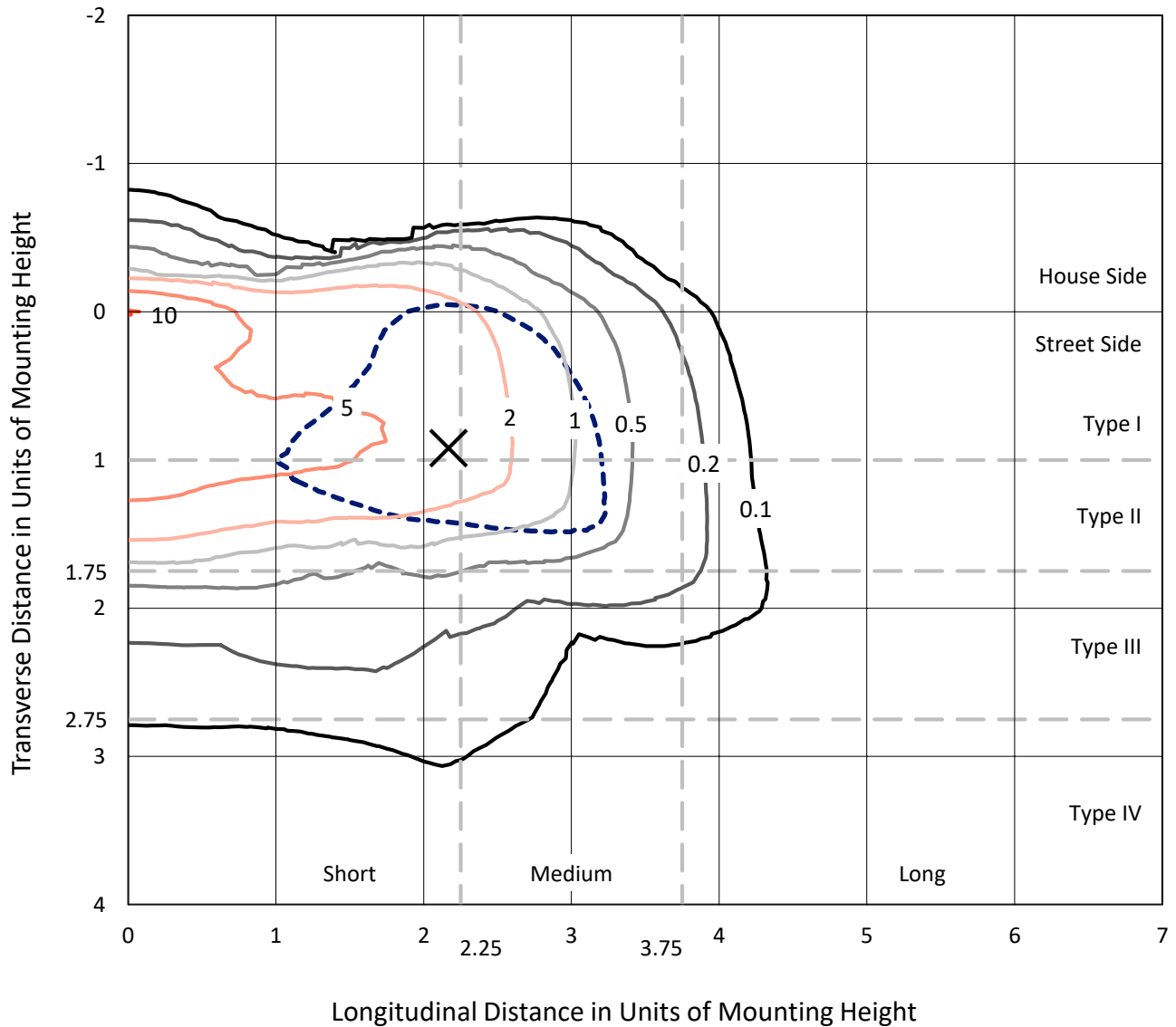


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

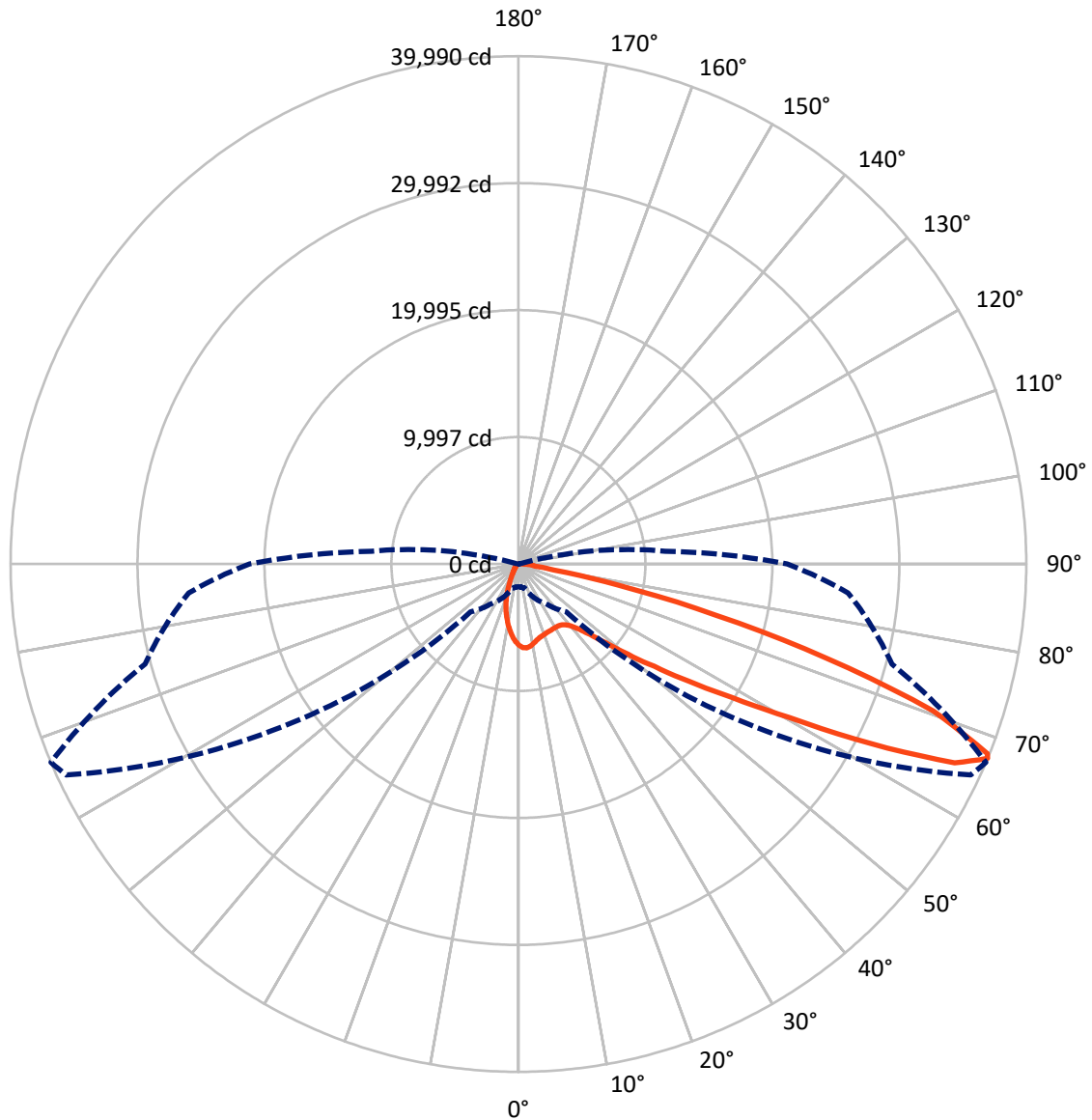


Based on 25 foot mounting height. Maximum calculated value = 10.2 fc  
 Type II - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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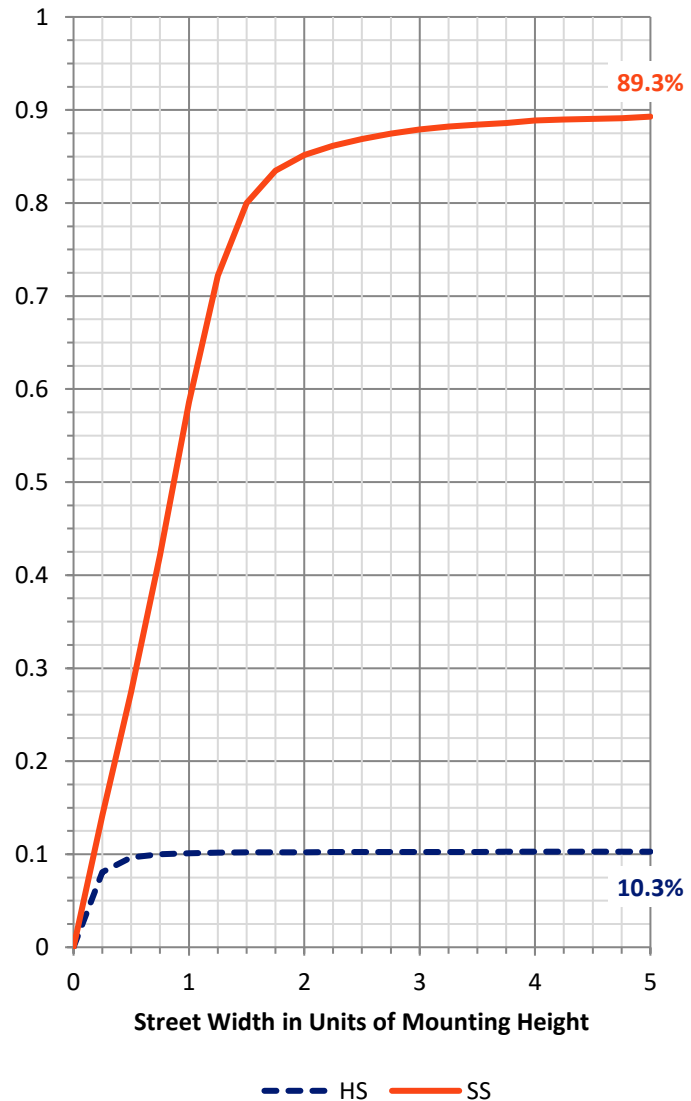
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3015.2	0.0	3015.2
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	26024.8	0.0	26024.8
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	29040.0	0.0	29040.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	521.1	1.8
10°-20°	1109.1	3.8
20°-30°	1612.6	5.6
30°-40°	2515.7	8.7
40°-50°	4456.4	15.3
50°-60°	7051.8	24.3
60°-70°	8076.9	27.8
70°-80°	3350.2	11.5
80°-90°	346.1	1.2
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°	29040.0	100.0
0°-180°	29040.0	100.0



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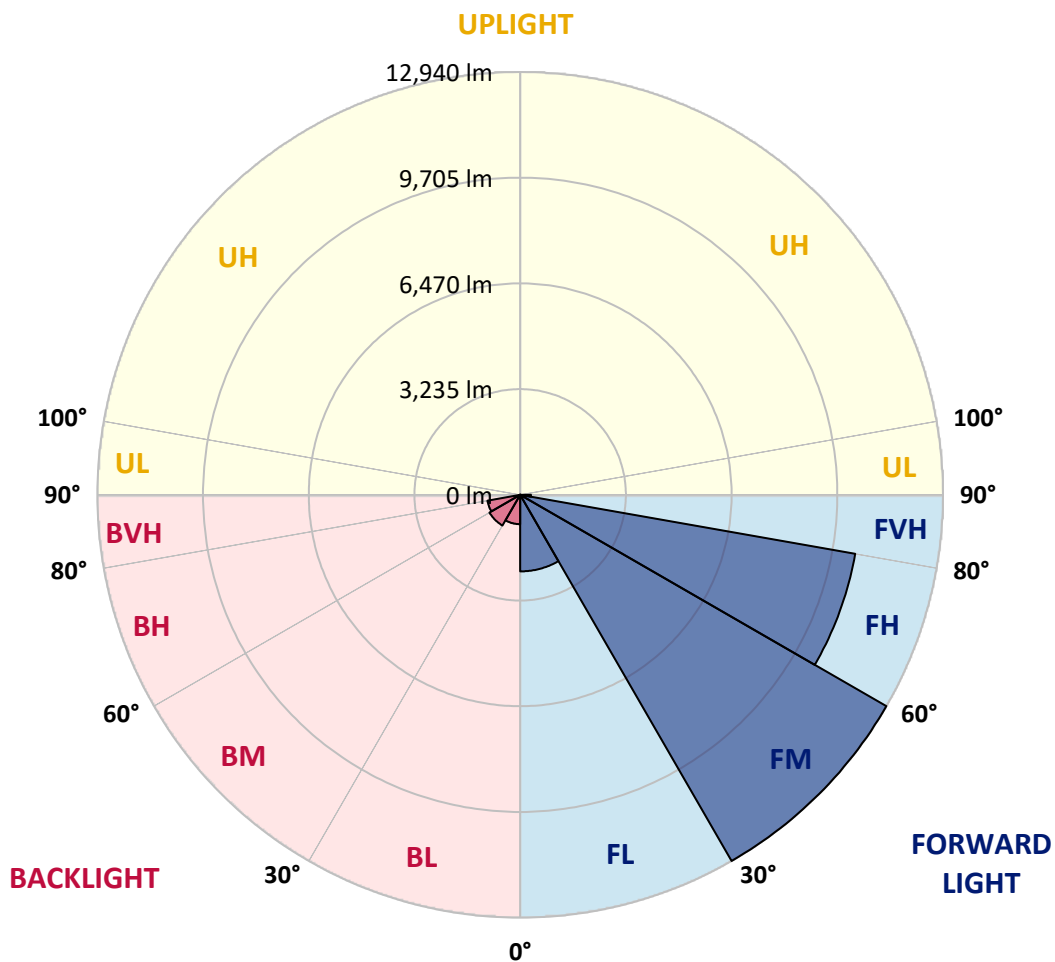
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2343.1	8.1			
FM (30°-60°)	12940.3	44.6			
FH (60°-80°)	10410.9	35.9			G4/12000
FVH (80°-90°)	330.5	1.1			G3/500
BL (0°-30°)	899.7	3.1	B2/1000		
BM (30°-60°)	1083.7	3.7	B2/2500		
BH (60°-80°)	1016.2	3.5	B3/2500		G3/2500
BVH (80°-90°)	15.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6404.4	6404.4	6404.4	6404.4	6404.4	6404.4	6404.4	6404.4	6404.4	6404.4	6404.4
2.5°	6621.2	6634.8	6633.1	6643.2	6666.9	6668.6	6644.9	6599.2	6589.0	6529.7	6426.4
5°	6106.3	6145.2	6168.9	6265.5	6373.9	6504.3	6602.6	6638.1	6633.1	6590.7	6434.9
7.5°	5518.5	5557.5	5584.6	5698.1	5842.0	6065.6	6321.4	6531.4	6550.1	6595.8	6428.1
10°	5127.2	5134.0	5171.3	5279.7	5430.4	5659.1	5964.0	6331.6	6387.5	6555.1	6411.2
12.5°	4805.4	4810.5	4859.6	4976.5	5137.4	5367.8	5687.9	6113.1	6199.4	6504.3	6407.8
15°	4576.7	4595.4	4639.4	4761.4	4932.4	5161.1	5489.7	5952.1	6055.5	6485.7	6438.3
17.5°	4500.5	4520.8	4534.4	4622.5	4778.3	5001.9	5339.0	5847.1	5964.0	6495.9	6497.6
20°	4580.1	4595.4	4564.9	4586.9	4683.5	4883.3	5211.9	5757.3	5896.2	6507.7	6573.8
22.5°	4876.6	4883.3	4800.3	4703.8	4686.8	4796.9	5112.0	5686.2	5835.3	6539.9	6663.5
25°	5384.7	5372.8	5237.3	5029.0	4832.5	4781.7	5052.7	5642.2	5804.8	6573.8	6756.7
27.5°	5997.9	6014.8	5828.5	5525.3	5151.0	4883.3	5044.2	5623.5	5791.2	6597.5	6838.0
30°	6743.2	6766.9	6553.4	6172.3	5635.4	5134.0	5122.2	5620.1	5782.8	6582.2	6844.8
32.5°	7503.7	7532.5	7364.8	6971.8	6282.4	5554.1	5298.3	5657.4	5799.7	6529.7	6805.8
35°	8299.8	8340.4	8228.7	7891.6	7159.8	6160.5	5608.3	5770.9	5879.3	6524.7	6766.9
37.5°	9399.1	9436.4	9226.3	8868.9	8221.9	6973.5	6106.3	5984.3	6067.3	6606.0	6777.0
40°	11040.4	11035.3	10493.3	9946.2	9388.9	8006.8	6805.8	6370.5	6412.9	6851.6	6902.4
42.5°	12829.1	12820.6	12019.5	11187.8	10684.7	9278.8	7725.6	7037.9	7009.1	7303.8	7227.6
45°	14207.9	14206.2	13552.4	12615.7	12244.7	10738.9	8914.7	7966.1	7922.1	8038.9	7827.2
47.5°	14795.7	14805.8	14477.2	13818.3	13974.1	12713.9	10413.7	9311.0	9245.0	9197.5	8875.7
50°	14338.3	14358.6	14385.7	14257.0	15242.8	15368.2	12424.3	11206.4	11174.2	10962.5	10459.4
52.5°	12844.4	12947.7	13266.1	13674.3	15683.2	17915.7	15576.5	13560.8	13388.1	13162.8	12608.9
55°	10327.3	10440.8	11045.5	12036.4	15027.7	19589.2	19994.0	16596.2	16308.2	15635.8	14836.3
57.5°	6834.6	7010.8	7888.2	9148.4	13123.8	19858.5	24401.4	20808.8	19806.0	17964.8	17063.7
60°	3765.4	3934.8	4886.7	6028.4	9478.7	18527.2	27365.6	26293.4	24521.7	20568.2	19768.8
62.5°	2318.9	2410.3	3113.3	4175.3	5684.5	14622.9	27978.8	33185.6	31134.4	23920.3	23036.2
65°	1846.3	1885.2	2229.1	3413.1	4075.4	8697.8	25998.7	38439.9	37755.6	27978.8	25961.4
67°	1792.1	1807.3	1969.9	2930.3	3841.6	5332.2	21781.0	39295.3	39989.8	30434.8	26052.9
67.5°	1803.9	1820.9	1975.0	2796.5	3834.8	4900.3	20327.7	38958.2	39835.6	30629.6	25648.1
70°	1739.6	1792.1	2261.3	2794.8	3646.8	4072.0	12173.6	33754.8	34667.7	28459.8	21762.4
72.5°	616.6	619.9	977.3	2261.3	3965.3	4116.0	6113.1	24745.2	25421.1	21770.9	15690.0
75°	365.9	311.7	325.2	643.7	3789.1	3997.5	3526.6	15812.0	16064.3	12475.1	7945.8
77.5°	252.4	220.2	227.0	284.6	1443.1	3941.6	2801.6	8245.6	7976.3	4375.2	1692.1
80°	144.0	127.0	135.5	249.0	525.1	3677.3	2642.4	3343.6	2850.7	741.9	467.5
82.5°	76.2	64.4	77.9	205.0	365.9	2291.8	2647.5	1615.9	1280.5	250.7	318.4
85°	27.1	22.0	37.3	140.6	243.9	702.9	2454.4	1358.5	1067.1	122.0	242.2
87.5°	5.1	5.1	15.2	57.6	98.2	215.1	1451.6	806.3	540.3	72.8	166.0
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°	6404.4	6404.4	6404.4	6404.4	6404.4	6404.4	6404.4	6404.4	6404.4	6404.4	6404.4
2.5°	6384.1	6311.2	6213.0	6092.7	5950.4	5825.1	5731.9	5635.4	5615.1	5581.2	5576.1
5°	6341.7	6216.4	5972.5	5693.0	5394.9	5125.5	4907.0	4712.3	4625.9	4551.3	4542.9
7.5°	6279.0	6091.0	5676.0	5225.5	4759.7	4336.2	3977.1	3723.1	3489.3	3377.5	3360.6
10°	6206.2	5936.9	5342.4	4717.3	4073.7	3475.8	2942.2	2495.0	2224.0	2063.1	2042.8
12.5°	6138.5	5786.1	5001.9	4190.5	3335.2	2535.7	1849.7	1422.8	1138.3	1023.1	1009.5
15°	6106.3	5664.2	4683.5	3651.9	2562.8	1614.2	1011.2	782.6	689.4	662.3	660.6
17.5°	6102.9	5560.9	4371.8	3094.6	1795.5	938.4	658.9	601.3	582.7	575.9	575.9
20°	6101.2	5462.6	4060.1	2517.0	1140.0	625.0	548.8	535.3	521.7	513.2	513.2
22.5°	6119.8	5374.5	3734.9	1927.6	718.2	506.5	482.7	469.2	452.3	440.4	438.7
25°	6138.5	5306.8	3402.9	1372.0	520.0	440.4	416.7	398.1	374.3	359.1	357.4
27.5°	6141.8	5222.1	3047.2	918.1	435.3	384.5	354.0	325.2	298.1	282.9	281.2
30°	6091.0	5079.8	2652.5	619.9	384.5	333.7	293.0	262.5	237.1	225.3	225.3
32.5°	5991.1	4903.7	2218.9	467.5	342.2	286.3	242.2	213.4	196.5	191.4	189.7
35°	5901.3	4713.9	1773.4	396.4	306.6	242.2	198.2	179.5	169.4	167.7	166.0
37.5°	5848.8	4561.5	1355.1	359.1	272.7	203.3	167.7	154.1	149.1	145.7	147.4
40°	5889.5	4434.5	1001.1	328.6	238.8	169.4	142.3	135.5	130.4	128.7	128.7
42.5°	6067.3	4412.4	743.6	301.5	206.6	140.6	123.6	118.6	115.2	113.5	115.2
45°	6534.8	4547.9	577.6	276.1	174.5	118.6	105.0	103.3	101.6	101.6	101.6
47.5°	7237.8	4827.4	481.0	247.3	145.7	101.6	91.5	89.8	88.1	89.8	89.8
50°	8428.5	5339.0	430.2	218.5	120.3	86.4	77.9	77.9	77.9	77.9	79.6
52.5°	10239.2	6345.1	396.4	189.7	98.2	72.8	66.1	66.1	67.8	67.8	69.4
55°	12256.6	7679.9	365.9	160.9	83.0	61.0	54.2	55.9	57.6	59.3	59.3
57.5°	14445.0	9158.6	340.5	132.1	71.1	49.1	45.7	47.4	49.1	52.5	52.5
60°	17085.7	10759.2	303.2	103.3	59.3	39.0	35.6	39.0	44.0	47.4	49.1
62.5°	19985.6	12307.4	255.8	81.3	49.1	30.5	28.8	35.6	42.3	45.7	47.4
65°	21967.4	12793.5	196.5	66.1	37.3	22.0	23.7	32.2	40.7	45.7	45.7
67°	21164.5	11599.4	160.9	55.9	30.5	16.9	22.0	32.2	40.7	44.0	45.7
67.5°	20607.2	11131.9	154.1	54.2	28.8	16.9	22.0	32.2	40.7	45.7	45.7
70°	16767.3	8362.5	128.7	40.7	23.7	15.2	18.6	30.5	39.0	44.0	44.0
72.5°	11650.2	5156.0	115.2	28.8	20.3	13.6	16.9	28.8	37.3	42.3	44.0
75°	5538.8	1866.6	98.2	22.0	18.6	11.9	15.2	28.8	37.3	42.3	42.3
77.5°	1129.8	433.6	79.6	18.6	15.2	11.9	13.6	27.1	35.6	40.7	40.7
80°	370.9	167.7	59.3	16.9	15.2	11.9	13.6	25.4	35.6	39.0	40.7
82.5°	267.6	84.7	39.0	16.9	15.2	11.9	11.9	25.4	33.9	39.0	39.0
85°	205.0	59.3	25.4	16.9	15.2	11.9	11.9	23.7	32.2	37.3	37.3
87.5°	135.5	23.7	20.3	16.9	15.2	11.9	11.9	23.7	30.5	35.6	37.3
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)