

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: P269635

Luminaire Tested: **GLEON-AF-09-LED-E1-SL3-7027-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269635  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
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-SL3-7027-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26023 lumens  
Efficiency: N/A  
Efficacy: 89.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B2 - 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

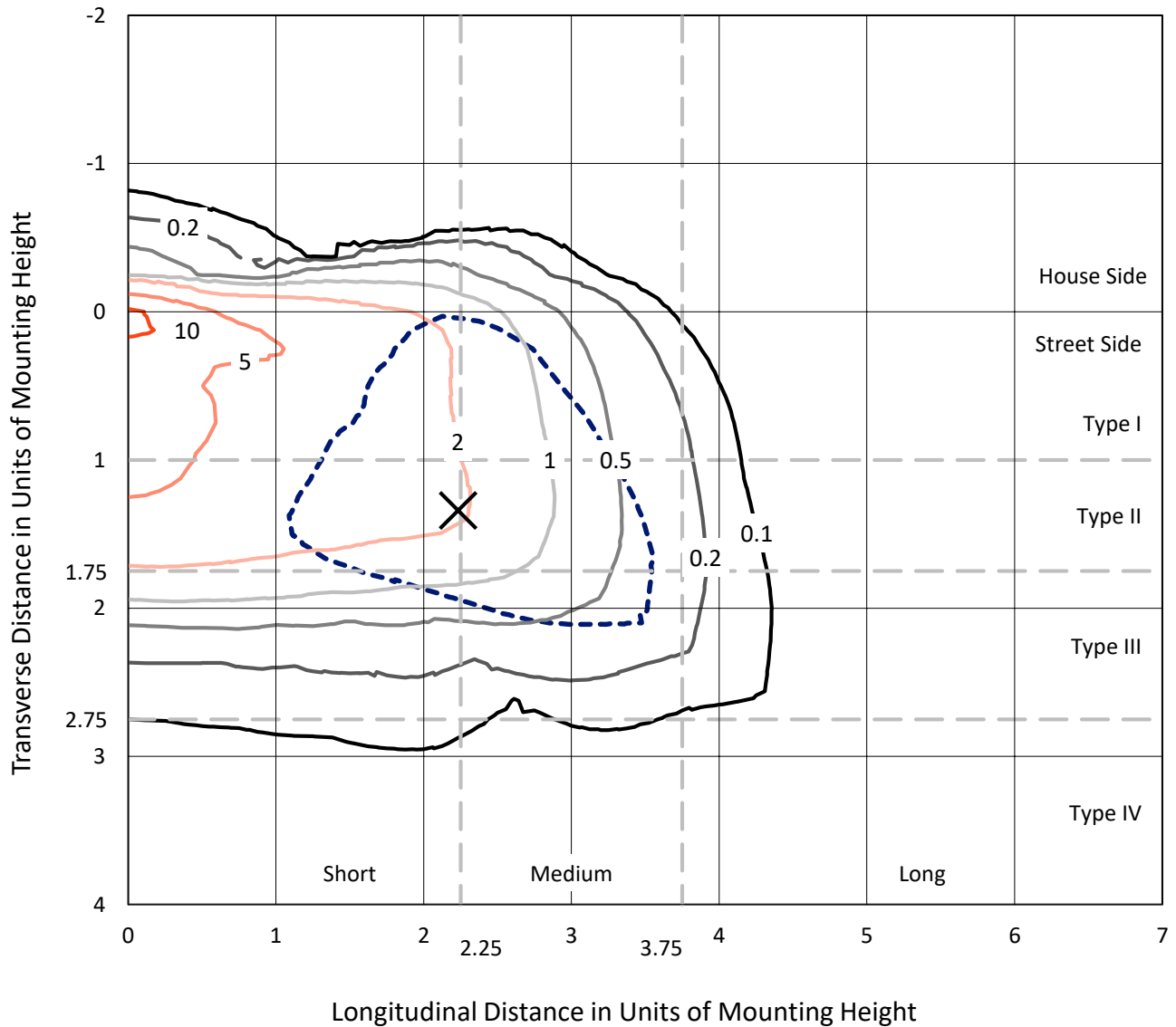


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

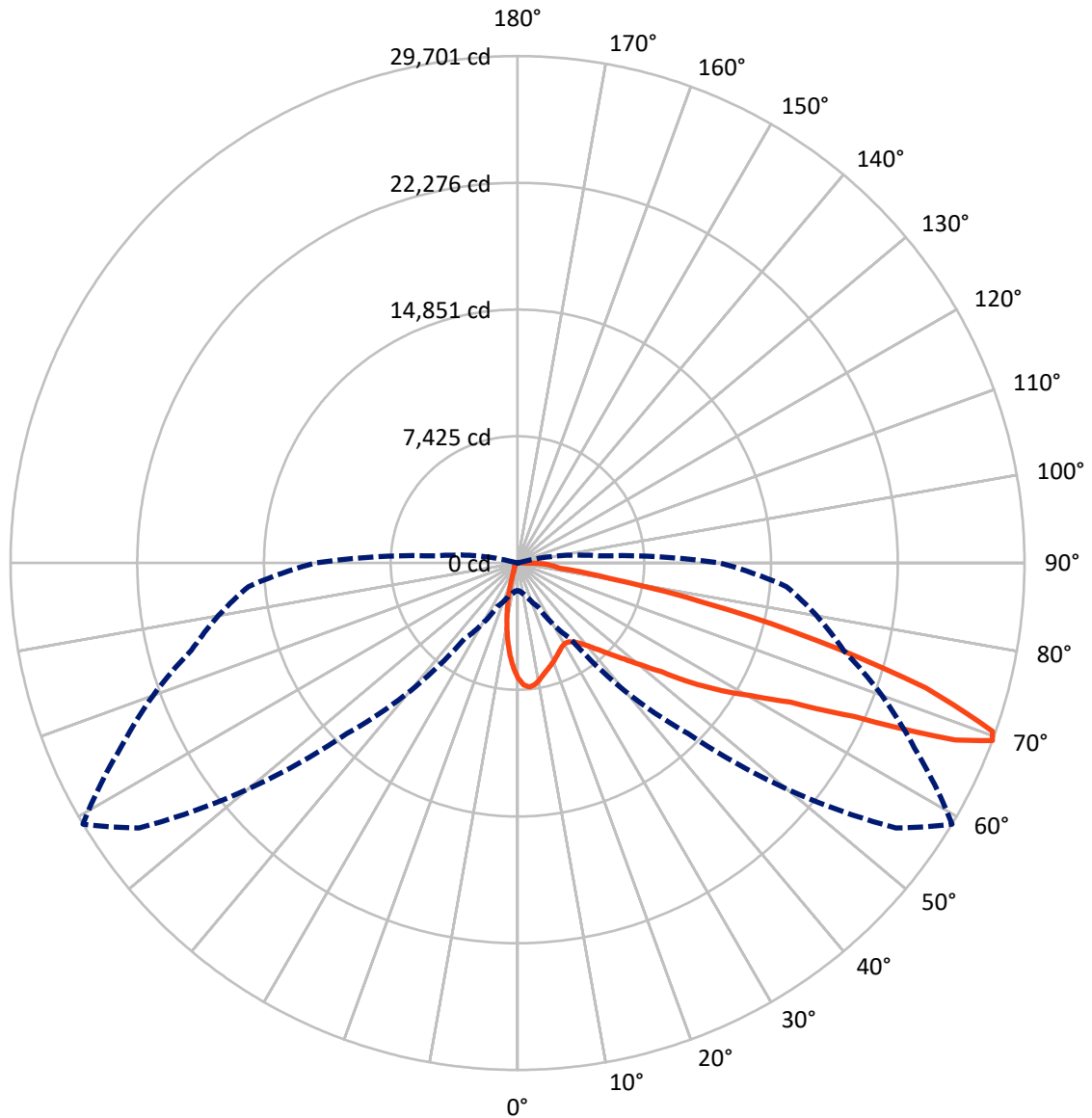


Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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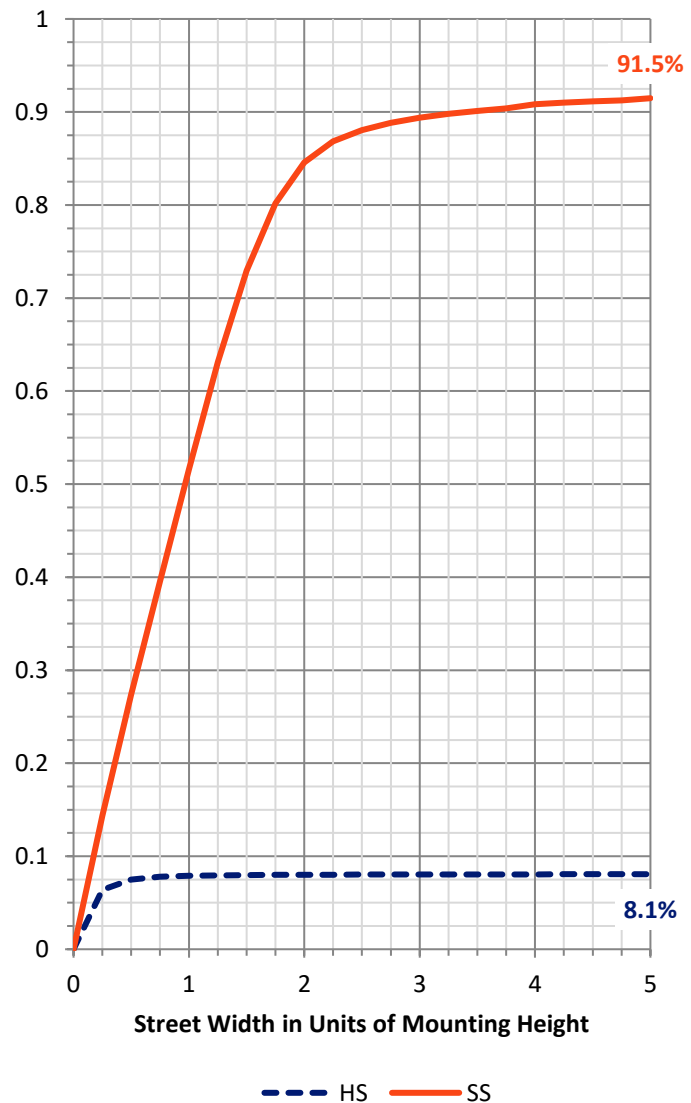
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2119.3	0.0	2119.3
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	23903.8	0.0	23903.8
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	26023.0	0.0	26023.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	549.8	2.1
10°-20°	1136.0	4.4
20°-30°	1528.7	5.9
30°-40°	2219.6	8.5
40°-50°	3695.7	14.2
50°-60°	5765.3	22.2
60°-70°	7134.1	27.4
70°-80°	3615.5	13.9
80°-90°	378.3	1.5
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°	26023.0	100.0
0°-180°	26023.0	100.0



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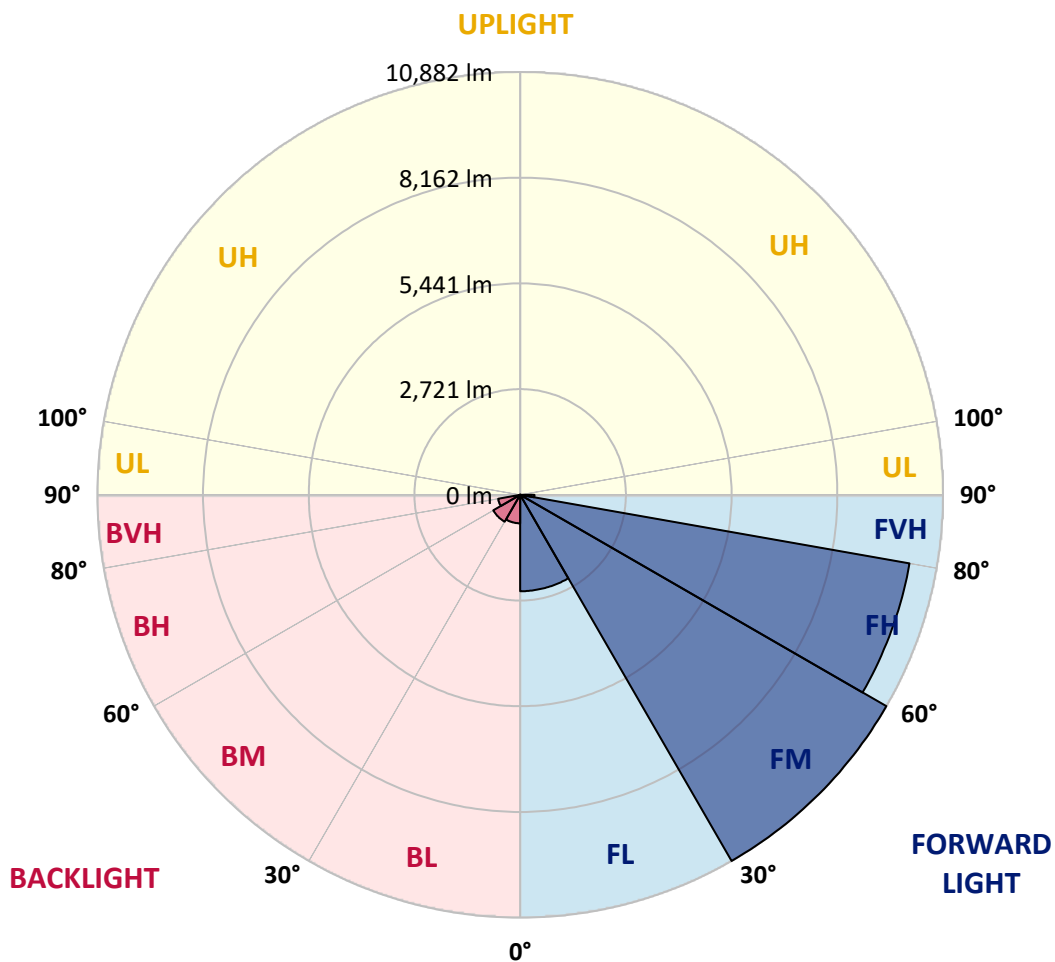
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2481.0	9.5			
FM (30°-60°)	10882.1	41.8			
FH (60°-80°)	10174.0	39.1			G4/12000
FVH (80°-90°)	366.7	1.4			G3/500
BL (0°-30°)	733.5	2.8	B2/1000		
BM (30°-60°)	798.5	3.1	B1/1000		
BH (60°-80°)	575.5	2.2	B2/1000		G2/1000
BVH (80°-90°)	11.7	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	6773.4	6773.4	6773.4	6773.4	6773.4	6773.4	6773.4	6773.4	6773.4	6773.4	6773.4
2.5°	7423.9	7420.9	7388.5	7373.7	7347.3	7291.5	7204.5	7159.0	7085.4	6957.4	6785.2
5°	7356.1	7391.4	7410.6	7412.1	7431.1	7410.6	7332.7	7294.3	7192.8	6986.7	6677.8
7.5°	6897.0	6910.3	6964.6	7011.8	7103.1	7189.9	7217.8	7201.6	7141.3	6920.6	6510.0
10°	6405.5	6418.7	6483.5	6545.3	6668.9	6802.9	6944.1	6973.5	6998.5	6826.4	6348.1
12.5°	5981.8	5995.0	6061.3	6142.2	6286.3	6451.2	6670.5	6719.1	6829.4	6736.6	6218.6
15°	5616.8	5622.8	5687.4	5787.5	5959.6	6171.5	6420.2	6498.2	6667.5	6673.4	6105.4
17.5°	5306.3	5321.0	5360.7	5456.5	5644.8	5906.6	6196.6	6308.4	6507.1	6620.4	5995.0
20°	5116.4	5131.2	5129.7	5182.7	5351.9	5631.6	5972.9	6106.8	6348.1	6565.9	5896.5
22.5°	5079.6	5079.6	5041.5	5034.1	5134.2	5368.1	5740.3	5903.8	6205.4	6542.4	5827.2
25°	5210.7	5204.8	5109.1	5031.1	5035.5	5175.3	5515.2	5709.4	6084.8	6558.5	5790.5
27.5°	5487.2	5480.0	5359.3	5210.7	5091.5	5089.9	5344.6	5553.5	5989.1	6635.2	5805.1
30°	5870.0	5867.0	5735.9	5549.1	5332.8	5134.2	5285.6	5475.6	5927.2	6773.4	5839.1
32.5°	6287.9	6283.5	6184.8	5987.7	5713.8	5332.8	5347.5	5506.4	5945.0	6957.4	5921.4
35°	6730.7	6723.5	6680.8	6508.6	6206.8	5699.1	5550.5	5674.2	6056.8	7232.6	6083.3
37.5°	7210.4	7217.8	7248.8	7083.9	6767.6	6212.8	5890.5	5974.4	6281.9	7606.3	6346.6
40°	7918.3	7916.9	7927.2	7710.8	7406.2	6841.1	6365.7	6392.2	6658.6	8102.3	6746.9
42.5°	9203.0	9113.1	8840.8	8399.4	8093.4	7559.1	6964.6	6936.7	7119.2	8715.9	7307.6
45°	10929.0	10737.7	10031.5	9185.3	8793.9	8368.6	7702.0	7612.1	7728.5	9453.0	7999.1
47.5°	12413.8	12215.2	11216.0	10003.4	9536.9	9136.8	8565.8	8403.9	8442.1	10278.5	8876.2
50°	12918.5	12821.4	11948.7	10715.6	10256.5	10103.4	9567.8	9370.7	9316.2	11233.7	9893.0
52.5°	12743.4	12736.0	12154.7	11177.7	10915.8	11104.0	10829.0	10600.9	10400.8	12240.1	10927.5
55°	12462.4	12499.1	12238.7	11582.3	11573.6	12018.0	12553.5	12363.7	11784.0	13333.5	11819.3
57.5°	11686.9	11844.3	12191.5	12347.6	12709.6	13164.2	13989.8	14101.7	13415.8	14170.9	12559.5
60°	9482.5	9828.4	10964.4	12458.0	14173.7	15306.8	15723.3	15819.0	14755.0	14866.8	13558.6
62.5°	6730.7	7083.9	8524.6	11051.2	14195.7	18121.8	18305.8	17930.4	16229.5	15898.4	15281.7
65°	3572.9	3845.0	5022.3	7977.0	12307.9	18775.1	22821.9	21703.5	18831.1	17927.6	17508.1
67.5°	1827.6	1910.1	2378.1	3903.9	8461.2	16676.8	26870.0	27657.2	23314.8	19940.7	17400.8
69°	1617.2	1665.7	1976.2	2822.4	5418.1	14125.2	27067.2	29701.3	25661.9	19772.9	15813.0
70°	1565.7	1608.3	1890.9	2554.6	4235.1	11845.8	26312.3	29521.7	26262.3	19134.3	14626.9
72.5°	1328.9	1365.6	1683.5	2257.4	3441.9	5880.2	21373.9	25015.9	23566.5	15939.5	10587.7
75°	888.9	1009.4	1615.7	2116.0	3202.1	3340.3	14091.4	18077.8	16793.0	10750.9	5515.2
77.5°	213.3	229.5	456.2	1683.5	2928.4	2940.2	7247.3	11238.1	9166.1	3831.8	1303.8
80°	114.8	110.3	128.0	334.0	2726.7	2759.1	3262.4	5455.0	3272.6	635.7	429.7
82.5°	80.9	76.5	82.5	139.7	857.9	2513.4	2360.3	2469.3	1356.7	244.2	192.7
85°	29.5	27.9	45.6	126.5	269.3	1445.1	2425.1	2036.5	1099.3	111.7	141.3
87.5°	10.3	8.9	17.6	69.2	82.5	615.1	1496.5	1539.2	432.7	67.7	66.3
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°	6773.4	6773.4	6773.4	6773.4	6773.4	6773.4	6773.4	6773.4	6773.4	6773.4	6773.4
2.5°	6713.2	6621.9	6454.1	6281.9	6122.9	5931.7	5836.1	5741.8	5702.1	5687.4	5618.3
5°	6518.9	6364.3	6008.3	5650.7	5321.0	4970.9	4739.7	4554.3	4445.5	4392.5	4308.6
7.5°	6270.2	6017.0	5477.1	4925.1	4411.7	3905.4	3530.2	3241.8	3043.1	2947.5	2860.7
10°	6028.9	5691.9	4923.7	4171.8	3474.3	2803.3	2285.3	1910.1	1670.2	1559.7	1489.2
12.5°	5812.6	5375.5	4389.6	3437.5	2562.0	1776.0	1249.4	950.5	801.9	750.4	725.4
15°	5619.7	5084.0	3884.8	2740.0	1734.9	1015.4	682.8	581.3	557.7	557.7	554.8
17.5°	5437.4	4798.7	3397.7	2085.1	1088.9	621.0	519.4	506.3	506.3	512.2	512.2
20°	5262.2	4526.4	2926.9	1496.5	685.8	493.0	469.5	466.5	469.5	476.8	476.8
22.5°	5112.1	4279.2	2486.9	1027.1	509.2	444.4	432.7	428.2	429.7	434.2	437.0
25°	5000.2	4070.2	2071.9	696.0	438.6	404.6	391.4	384.0	378.1	378.1	381.2
27.5°	4929.5	3893.7	1670.2	506.3	394.4	367.9	347.3	335.4	322.2	314.9	317.8
30°	4878.1	3725.9	1293.5	413.5	353.2	326.7	300.3	281.1	261.9	253.1	256.0
32.5°	4859.0	3590.5	966.8	364.9	316.4	287.0	254.6	229.5	208.9	201.6	203.0
35°	4910.4	3483.1	707.9	329.6	287.0	250.2	213.3	185.4	169.2	164.7	166.2
37.5°	5045.9	3425.6	529.7	300.3	260.5	219.2	178.0	151.5	141.3	141.3	142.7
40°	5301.8	3424.2	425.3	279.6	237.0	189.8	147.1	128.0	122.1	125.0	126.5
42.5°	5675.8	3502.2	370.8	260.5	216.3	161.9	122.1	108.9	107.3	110.3	111.7
45°	6186.3	3645.0	341.4	244.2	194.3	135.4	103.0	94.2	94.2	98.6	100.2
47.5°	6811.7	3853.9	316.4	228.1	172.1	113.2	88.4	82.5	83.9	88.4	89.8
50°	7565.0	4117.3	291.4	210.5	155.9	94.2	76.5	72.1	73.7	79.5	80.9
52.5°	8423.0	4471.9	270.7	194.3	135.4	78.1	64.8	61.9	64.8	70.6	72.1
55°	9158.8	4789.9	245.7	181.0	108.9	64.8	53.0	53.0	56.0	63.3	64.8
57.5°	9866.5	5122.3	223.7	155.9	85.3	51.6	44.1	45.6	50.0	57.4	58.8
60°	10905.5	5686.0	197.2	131.0	64.8	41.2	36.8	38.3	44.1	51.6	53.0
62.5°	12669.9	6543.9	170.7	108.9	50.0	32.3	29.5	32.3	39.7	48.6	50.0
65°	14262.0	6892.6	139.7	91.3	38.3	25.1	25.1	29.5	38.3	47.2	48.6
67.5°	13374.7	5802.2	108.9	72.1	29.5	19.1	20.7	27.9	36.8	47.2	48.6
69°	11828.2	4744.2	92.7	57.4	25.1	17.6	19.1	27.9	36.8	45.6	47.2
70°	10622.9	4005.5	82.5	48.6	22.1	17.6	19.1	26.5	36.8	45.6	47.2
72.5°	7114.8	2163.2	66.3	35.4	20.7	16.2	16.2	26.5	35.4	44.1	45.6
75°	3057.8	597.5	53.0	25.1	17.6	14.7	14.7	25.1	33.9	42.7	45.6
77.5°	559.1	151.5	42.7	22.1	17.6	14.7	13.2	23.5	32.3	41.2	42.7
80°	222.2	75.1	33.9	19.1	16.2	13.2	11.8	22.1	30.9	39.7	41.2
82.5°	133.8	42.7	27.9	17.6	16.2	11.8	10.3	19.1	29.5	38.3	39.7
85°	108.9	29.5	22.1	17.6	14.7	11.8	8.9	17.6	26.5	36.8	38.3
87.5°	53.0	20.7	20.7	16.2	14.7	11.8	8.9	16.2	25.1	35.4	36.8
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)