

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: P269717

Luminaire Tested: **GLEON-AF-10-LED-E1-SL3-7027-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269717  
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-10-LED-E1-SL3-7027-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 2700K, 800mA 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: 35331.4 lumens  
Efficiency: N/A  
Efficacy: 84.3 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 - G5

Input Watts (W): 419  
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

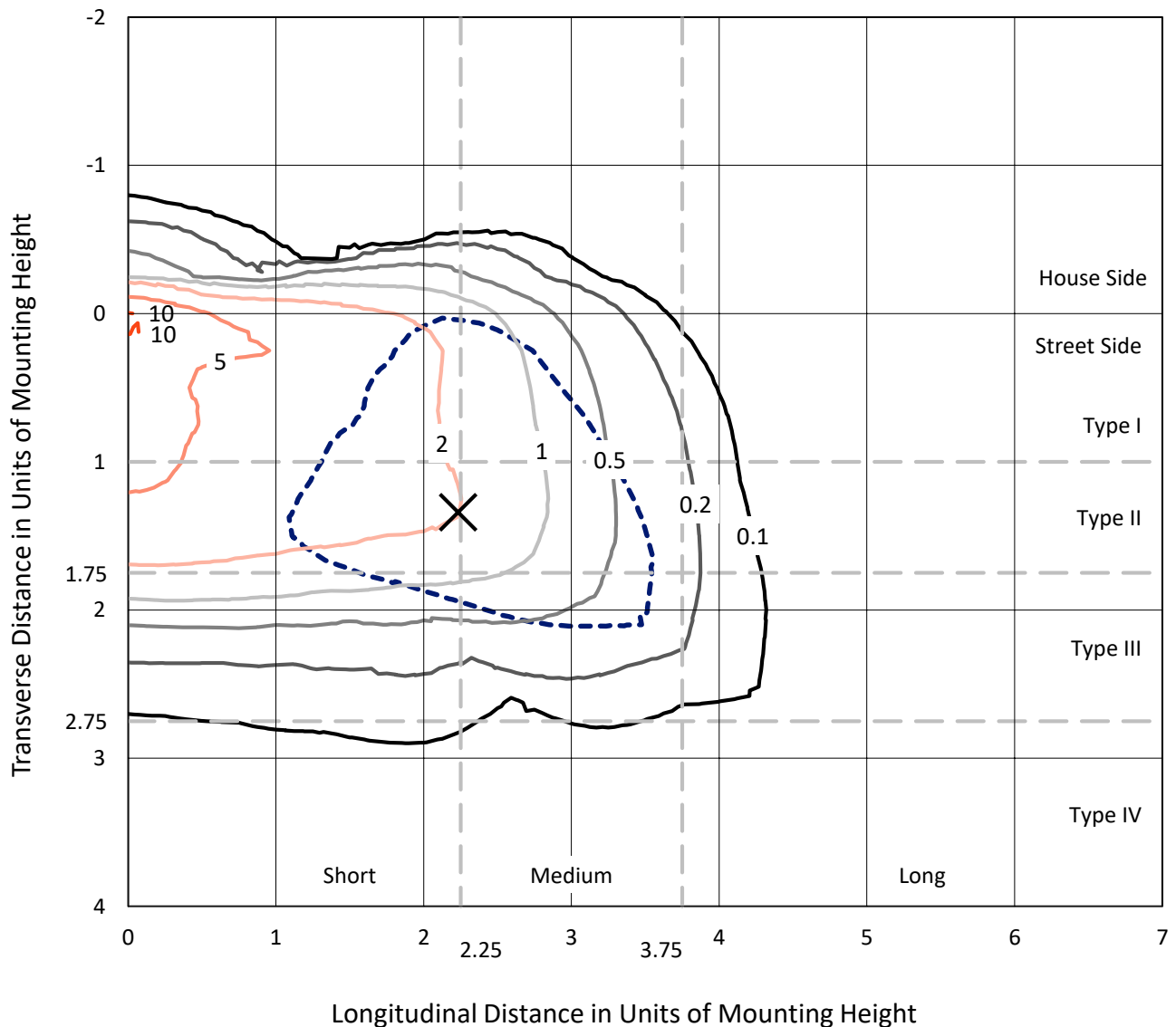


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

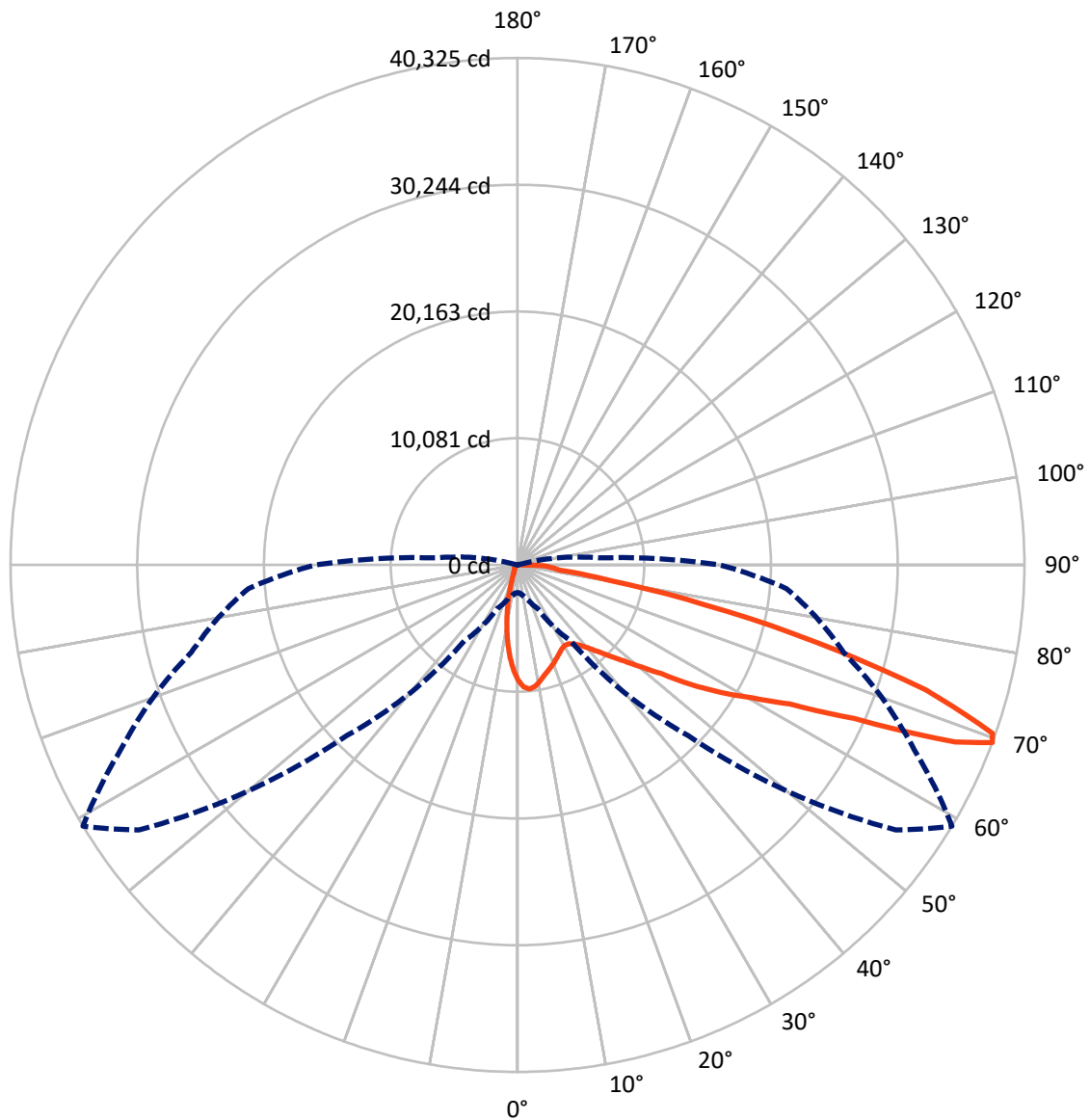


Based on 30 foot mounting height. Maximum calculated value = 10.3 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



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

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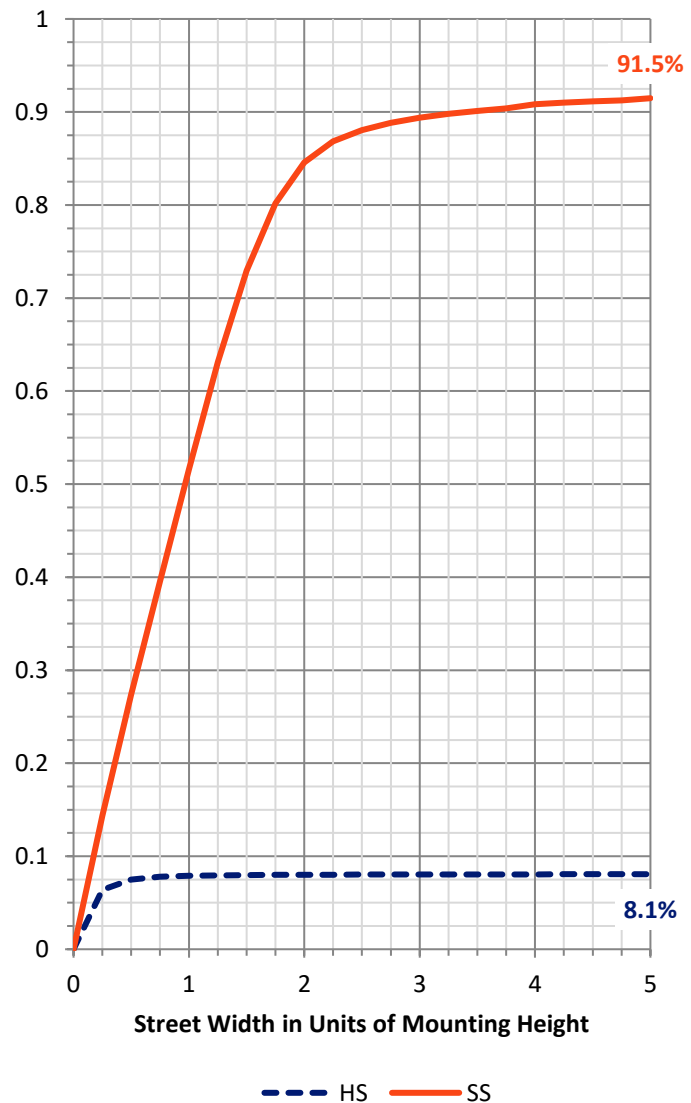
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2877.3	0.0	2877.3
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	32454.1	0.0	32454.1
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	35331.4	0.0	35331.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	746.5	2.1
10°-20°	1542.4	4.4
20°-30°	2075.5	5.9
30°-40°	3013.5	8.5
40°-50°	5017.7	14.2
50°-60°	7827.5	22.2
60°-70°	9685.9	27.4
70°-80°	4908.7	13.9
80°-90°	513.6	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°	35331.4	100.0
0°-180°	35331.4	100.0



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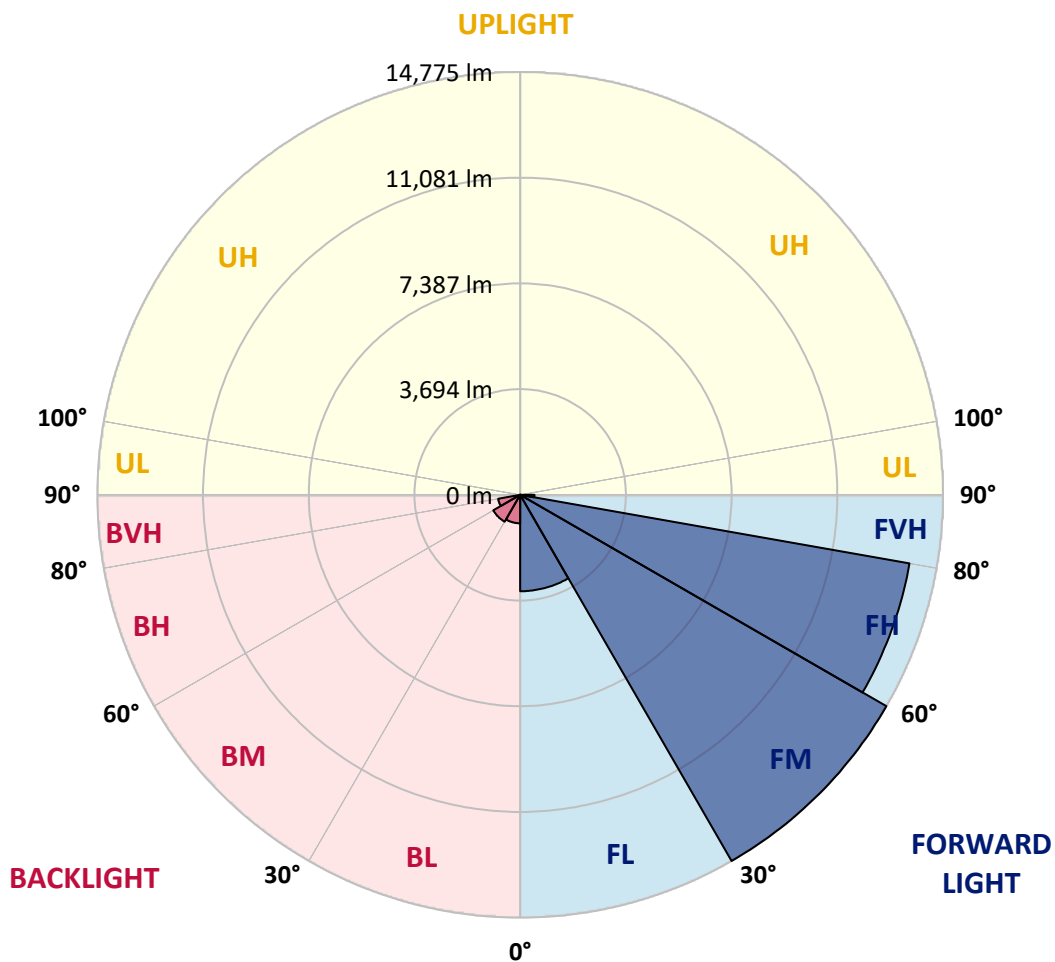
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3368.5	9.5			
FM (30°-60°)	14774.5	41.8			
FH (60°-80°)	13813.3	39.1			G5
FVH (80°-90°)	497.8	1.4			G3/500
BL (0°-30°)	995.9	2.8	B2/1000		
BM (30°-60°)	1084.2	3.1	B2/2500		
BH (60°-80°)	781.4	2.2	B2/1000		G2/1000
BVH (80°-90°)	15.8	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-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	9196.3	9196.3	9196.3	9196.3	9196.3	9196.3	9196.3	9196.3	9196.3	9196.3	9196.3
2.5°	10079.3	10075.3	10031.5	10011.4	9975.5	9899.5	9781.6	9719.8	9619.8	9445.9	9212.3
5°	9987.4	10035.3	10061.3	10063.4	10089.4	10061.3	9955.5	9903.5	9765.7	9485.9	9066.5
7.5°	9364.1	9382.1	9456.0	9519.9	9643.8	9761.7	9799.6	9777.6	9695.8	9396.0	8838.7
10°	8696.9	8714.7	8802.8	8886.7	9054.5	9236.3	9428.0	9468.0	9501.9	9268.3	8618.9
12.5°	8121.3	8139.5	8229.4	8339.1	8534.9	8758.7	9056.4	9122.4	9272.1	9146.4	8443.1
15°	7625.9	7633.9	7721.8	7857.7	8091.5	8379.1	8716.8	8822.7	9052.4	9060.5	8289.2
17.5°	7204.3	7224.3	7278.2	7408.1	7663.9	8019.4	8413.0	8564.9	8834.7	8988.5	8139.5
20°	6946.7	6966.6	6964.6	7036.6	7266.3	7646.0	8109.4	8291.3	8618.9	8914.6	8005.5
22.5°	6896.6	6896.6	6844.7	6834.8	6970.6	7288.3	7793.8	8015.5	8425.1	8882.6	7911.6
25°	7074.5	7066.5	6936.6	6830.8	6836.8	7026.5	7488.1	7751.8	8261.3	8904.5	7861.6
27.5°	7450.2	7440.1	7276.4	7074.5	6912.6	6910.8	7256.2	7540.1	8131.4	9008.5	7881.6
30°	7969.6	7965.6	7787.8	7534.1	7240.2	6970.6	7176.4	7434.2	8047.5	9196.3	7927.6
32.5°	8537.0	8530.9	8397.0	8129.4	7757.9	7240.2	7260.3	7476.1	8071.5	9445.9	8039.6
35°	9138.3	9128.3	9070.4	8836.6	8427.1	7737.8	7536.1	7703.9	8223.4	9819.6	8259.2
37.5°	9789.5	9799.6	9841.7	9617.9	9188.3	8435.1	7997.5	8111.4	8529.0	10327.0	8616.9
40°	10750.6	10748.6	10762.7	10468.8	10055.4	9288.1	8642.9	8678.9	9040.5	11000.4	9160.2
42.5°	12494.7	12373.0	12003.3	11404.0	10988.3	10263.1	9456.0	9418.0	9665.8	11833.5	9921.5
45°	14838.4	14578.6	13619.7	12470.8	11939.4	11362.0	10456.9	10335.1	10492.9	12834.4	10860.5
47.5°	16854.2	16584.5	15227.9	13581.7	12948.3	12404.9	11629.6	11409.9	11461.8	13955.2	12051.2
50°	17539.4	17407.5	16222.9	14548.6	13925.3	13717.5	12990.3	12722.5	12648.7	15251.9	13431.7
52.5°	17301.6	17291.7	16502.6	15176.0	14820.2	15076.1	14702.4	14392.7	14121.0	16618.5	14836.2
55°	16920.0	16970.1	16616.4	15725.4	15713.3	16316.8	17043.9	16786.3	15999.1	18102.9	16047.1
57.5°	15867.2	16081.0	16552.4	16764.3	17255.7	17873.0	18993.9	19145.8	18214.8	19239.7	17051.9
60°	12874.4	13343.9	14886.3	16914.0	19243.6	20782.0	21347.4	21477.2	20032.8	20184.6	18408.4
62.5°	9138.3	9617.9	11573.8	15004.1	19273.7	24603.9	24853.6	24344.2	22034.6	21585.2	20748.1
65°	4850.8	5220.5	6818.8	10830.5	16710.4	25491.1	30985.1	29466.8	25566.9	24340.2	23770.8
67.5°	2481.4	2593.2	3228.6	5300.4	11487.9	22642.0	36481.3	37550.3	31654.6	27073.4	23625.1
69°	2195.6	2261.7	2683.1	3831.9	7356.2	19177.6	36749.1	40325.4	34841.1	26845.6	21469.3
70°	2125.7	2183.7	2567.3	3468.4	5750.0	16083.0	35724.2	40081.6	35656.2	25978.5	19859.0
72.5°	1804.1	1854.0	2285.6	3064.7	4673.1	7983.5	29019.2	33964.0	31996.1	21641.1	14374.8
75°	1206.8	1370.5	2193.8	2873.0	4347.3	4535.3	19131.7	24544.0	22799.9	14596.6	7488.1
77.5°	289.8	311.7	619.3	2285.6	3975.8	3991.8	9839.6	15257.8	12444.8	5202.5	1770.1
80°	155.9	149.8	173.8	453.6	3702.1	3746.0	4429.4	7406.2	4443.2	863.1	583.4
82.5°	110.0	103.9	111.8	189.8	1164.7	3412.4	3204.7	3352.5	1842.1	331.7	261.8
85°	40.0	38.0	62.0	171.8	365.6	1961.9	3292.5	2765.1	1492.4	151.9	191.8
87.5°	14.0	11.9	24.0	94.0	111.8	835.2	2031.8	2089.7	587.4	91.8	89.9
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°	9196.3	9196.3	9196.3	9196.3	9196.3	9196.3	9196.3	9196.3	9196.3	9196.3	9196.3
2.5°	9114.4	8990.4	8762.7	8529.0	8313.3	8053.5	7923.6	7795.8	7741.9	7721.8	7628.0
5°	8850.6	8640.8	8157.4	7671.9	7224.3	6748.8	6435.2	6183.5	6035.6	5963.7	5849.9
7.5°	8513.0	8169.4	7436.1	6687.0	5989.7	5302.3	4792.9	4401.3	4131.7	4001.8	3883.9
10°	8185.4	7727.8	6684.9	5664.1	4717.0	3805.9	3102.7	2593.2	2267.6	2117.8	2021.8
12.5°	7891.6	7298.3	5959.6	4667.1	3478.2	2411.4	1696.2	1290.7	1088.8	1018.9	984.9
15°	7629.9	6902.7	5274.4	3720.2	2355.5	1378.5	927.1	789.3	757.2	757.2	753.1
17.5°	7382.2	6515.0	4613.2	2831.0	1478.4	843.1	705.3	687.3	687.3	695.3	695.3
20°	7144.4	6145.5	3973.8	2031.8	931.1	669.2	637.3	633.3	637.3	647.3	647.3
22.5°	6940.7	5809.9	3376.4	1394.4	691.2	603.3	587.4	581.5	583.4	589.4	593.4
25°	6788.9	5526.2	2813.0	944.9	595.3	549.5	531.4	521.5	513.4	513.4	517.5
27.5°	6692.9	5286.3	2267.6	687.3	535.4	499.5	471.5	455.5	437.6	427.6	431.5
30°	6623.1	5058.6	1756.1	561.4	479.4	443.6	407.7	381.6	355.5	343.6	347.6
32.5°	6597.1	4874.8	1312.7	495.4	429.6	389.5	345.7	311.7	283.8	273.8	275.7
35°	6667.0	4728.9	960.9	447.5	389.5	339.6	289.8	251.7	229.7	223.8	225.7
37.5°	6850.7	4651.1	719.3	407.7	353.7	297.7	241.7	205.8	191.8	191.8	193.9
40°	7198.4	4649.1	577.4	379.7	321.7	257.8	199.9	173.8	165.8	169.8	171.8
42.5°	7705.8	4755.0	503.5	353.7	293.7	219.7	165.8	147.9	145.9	149.8	151.9
45°	8399.2	4948.8	463.5	331.7	263.7	183.9	139.9	127.9	127.9	133.8	135.9
47.5°	9248.2	5232.4	429.6	309.6	233.7	153.8	119.8	111.8	113.8	119.8	121.9
50°	10271.1	5590.2	395.6	285.8	211.8	127.9	103.9	97.8	99.9	107.8	110.0
52.5°	11436.0	6071.6	367.5	263.7	183.9	105.9	87.9	83.9	87.9	95.8	97.8
55°	12434.9	6503.1	333.6	245.7	147.9	87.9	72.0	72.0	75.9	85.9	87.9
57.5°	13395.9	6954.7	303.6	211.8	115.9	69.9	59.9	62.0	67.9	78.0	79.9
60°	14806.4	7719.9	267.8	177.9	87.9	56.0	49.9	51.9	59.9	69.9	72.0
62.5°	17201.9	8884.5	231.8	147.9	67.9	43.9	40.0	43.9	54.0	65.9	67.9
65°	19363.5	9358.2	189.8	123.8	51.9	34.0	34.0	40.0	51.9	63.9	65.9
67.5°	18158.8	7877.6	147.9	97.8	40.0	26.1	27.9	38.0	49.9	63.9	65.9
69°	16059.0	6441.1	125.9	78.0	34.0	24.0	26.1	38.0	49.9	62.0	63.9
70°	14422.7	5438.2	111.8	65.9	30.0	24.0	26.1	35.9	49.9	62.0	63.9
72.5°	9659.7	2936.9	89.9	48.0	27.9	22.0	22.0	35.9	48.0	59.9	62.0
75°	4151.5	811.1	72.0	34.0	24.0	20.0	20.0	34.0	46.0	57.9	62.0
77.5°	759.2	205.8	57.9	30.0	24.0	20.0	18.0	32.0	43.9	56.0	57.9
80°	301.7	101.9	46.0	26.1	22.0	18.0	16.0	30.0	42.0	54.0	56.0
82.5°	181.7	57.9	38.0	24.0	22.0	16.0	14.0	26.1	40.0	51.9	54.0
85°	147.9	40.0	30.0	24.0	20.0	16.0	11.9	24.0	35.9	49.9	51.9
87.5°	72.0	27.9	27.9	22.0	20.0	16.0	11.9	22.0	34.0	48.0	49.9
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)