

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: P193666

Luminaire Tested: **GLEON-AF-08-LED-E1-SL3-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193666
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-08-LED-E1-SL3-8030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 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: 26869 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 334
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

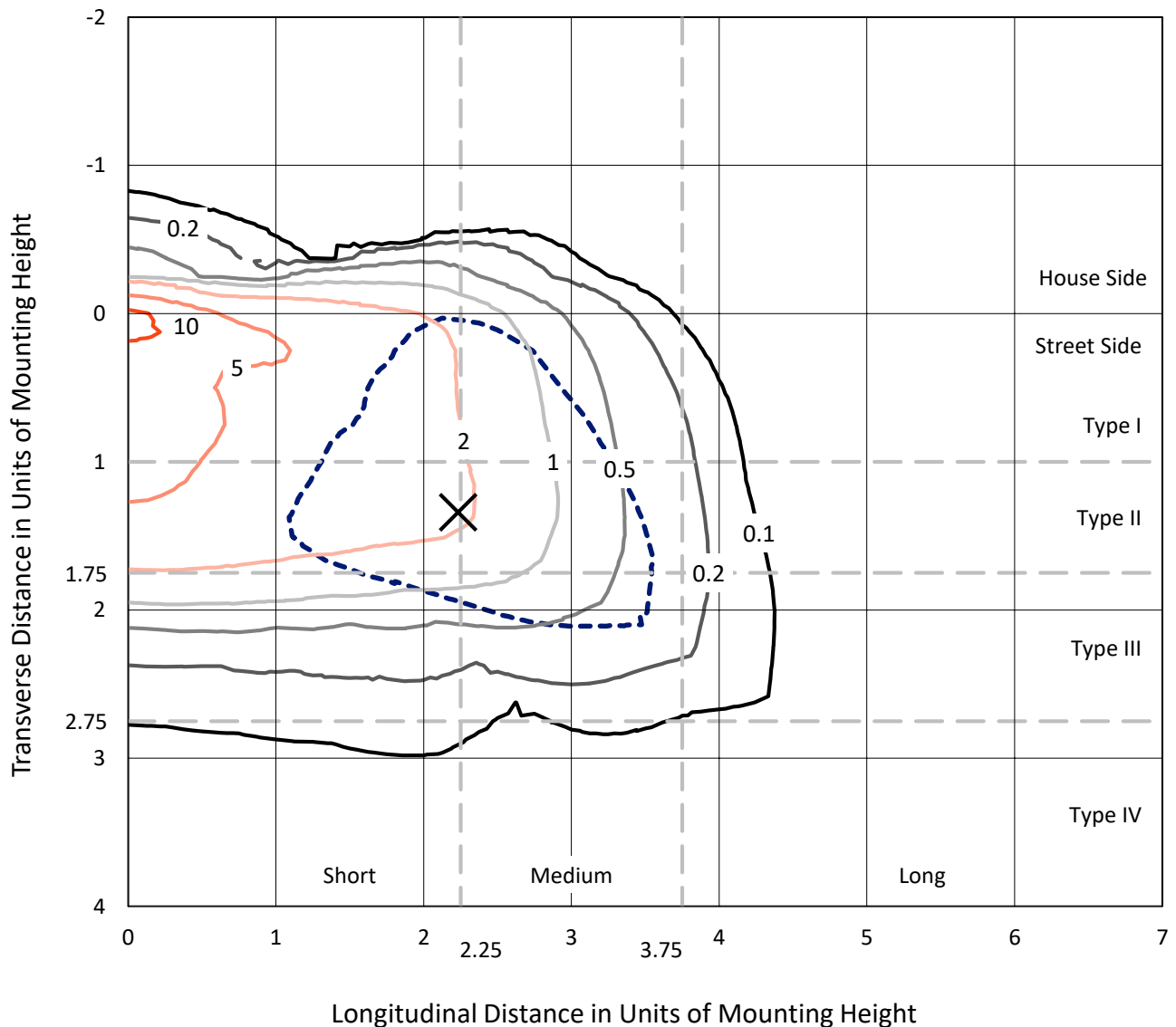


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

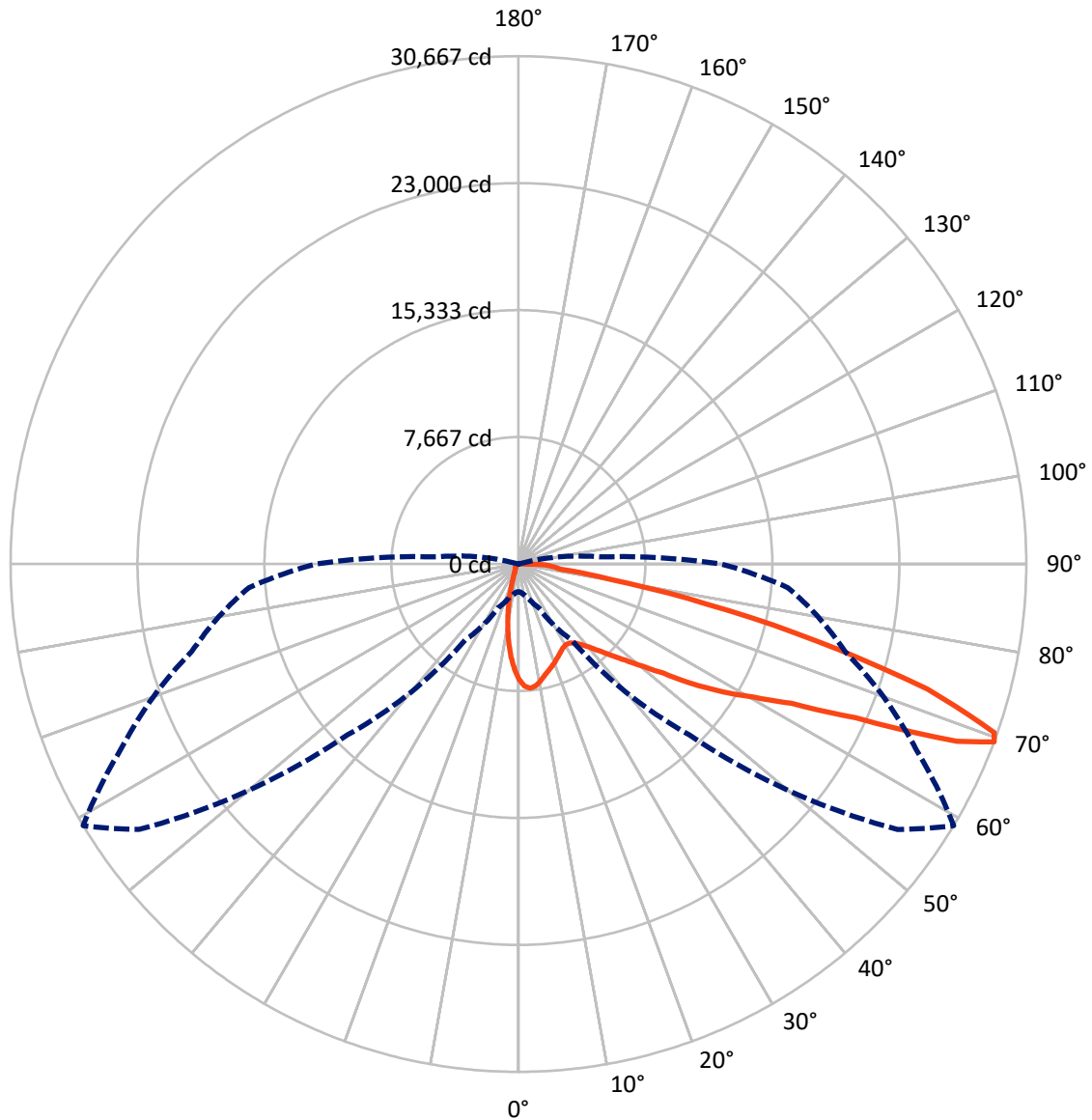


Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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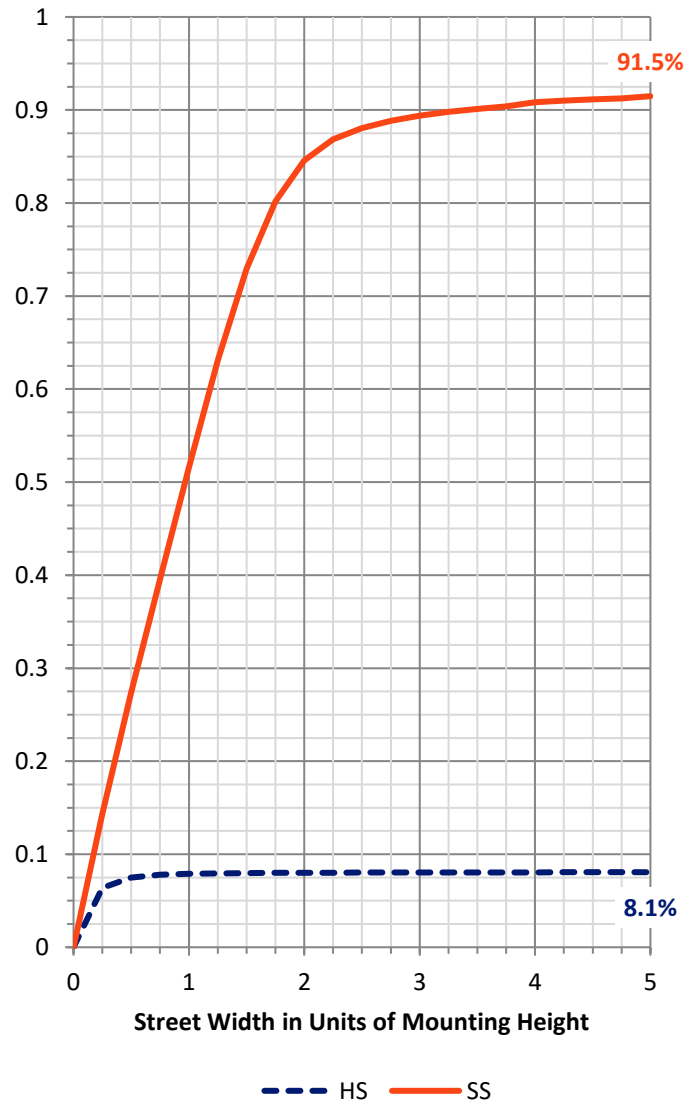
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2188.1	0.0	2188.1
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	24680.9	0.0	24680.9
	% Fixture	91.9	0.0	91.9
Total	Lumens	26869.0	0.0	26869.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	567.7	2.1
10°-20°	1173.0	4.4
20°-30°	1578.4	5.9
30°-40°	2291.7	8.5
40°-50°	3815.9	14.2
50°-60°	5952.7	22.2
60°-70°	7366.0	27.4
70°-80°	3733.0	13.9
80°-90°	390.6	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°	26869.0	100.0
0°-180°	26869.0	100.0



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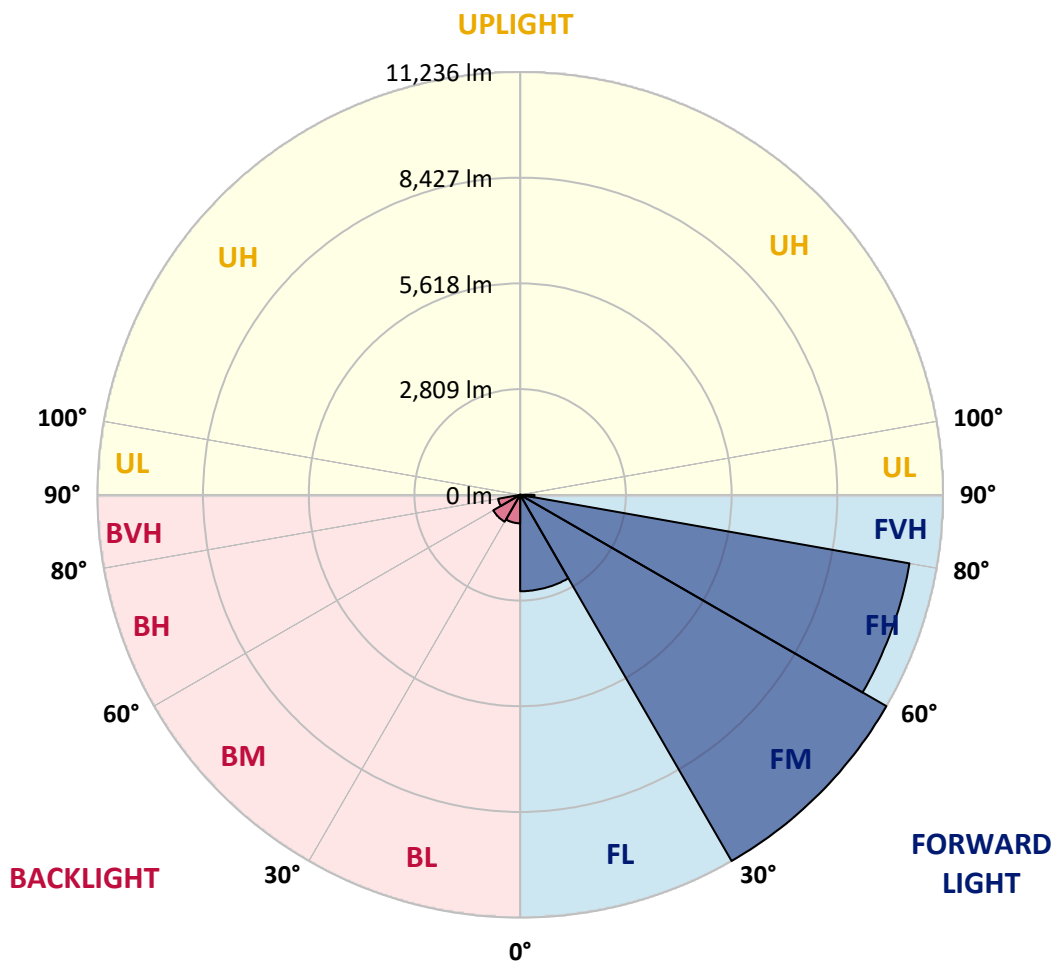
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2561.7	9.5			
FM (30°-60°)	11235.8	41.8			
FH (60°-80°)	10504.8	39.1			G4/12000
FVH (80°-90°)	378.6	1.4			G3/500
BL (0°-30°)	757.4	2.8	B2/1000		
BM (30°-60°)	824.5	3.1	B1/1000		
BH (60°-80°)	594.2	2.2	B2/1000		G2/1000
BVH (80°-90°)	12.0	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°	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6
2.5°	7665.2	7662.1	7628.7	7613.5	7586.2	7528.4	7438.8	7391.7	7315.7	7183.5	7005.8
5°	7595.3	7631.8	7651.5	7653.0	7672.8	7651.5	7571.0	7531.5	7426.6	7213.9	6894.9
7.5°	7121.3	7134.9	7191.1	7239.8	7334.0	7423.6	7452.5	7435.8	7373.5	7145.6	6721.7
10°	6613.8	6627.5	6694.3	6758.1	6885.8	7024.0	7169.9	7200.3	7226.1	7048.3	6554.5
12.5°	6176.2	6189.9	6258.3	6341.8	6490.7	6660.9	6887.3	6937.4	7051.4	6955.6	6420.8
15°	5799.4	5805.5	5872.3	5975.7	6153.4	6372.2	6629.0	6709.5	6884.2	6890.3	6303.8
17.5°	5478.8	5494.0	5535.0	5633.8	5828.3	6098.7	6398.0	6513.5	6718.6	6835.6	6189.9
20°	5282.8	5298.0	5296.5	5351.2	5525.9	5814.6	6167.1	6305.4	6554.5	6779.4	6088.1
22.5°	5244.8	5244.8	5205.3	5197.7	5301.1	5542.6	5927.0	6095.7	6407.2	6755.1	6016.7
25°	5380.1	5374.0	5275.2	5194.7	5199.3	5343.6	5694.6	5895.1	6282.6	6771.8	5978.7
27.5°	5665.7	5658.1	5533.5	5380.1	5257.0	5255.5	5518.3	5734.1	6183.8	6850.8	5993.9
30°	6060.7	6057.7	5922.5	5729.5	5506.2	5301.1	5457.6	5653.6	6120.0	6993.6	6028.8
32.5°	6492.2	6487.7	6385.9	6182.3	5899.7	5506.2	5521.4	5685.5	6138.2	7183.5	6113.9
35°	6949.6	6942.0	6897.9	6720.1	6408.7	5884.5	5731.0	5858.7	6253.7	7467.7	6281.0
37.5°	7444.9	7452.5	7484.4	7314.2	6987.6	6414.8	6082.0	6168.6	6486.2	7853.6	6553.0
40°	8175.7	8174.2	8184.8	7961.5	7647.0	7063.5	6572.8	6600.1	6875.1	8365.6	6966.3
42.5°	9502.1	9409.4	9128.3	8672.5	8356.5	7805.0	7191.1	7162.3	7350.7	8999.2	7545.2
45°	11284.3	11086.8	10357.5	9483.9	9079.7	8640.6	7952.3	7859.7	7979.7	9760.4	8259.3
47.5°	12817.3	12612.2	11580.6	10328.6	9847.0	9433.7	8844.2	8677.1	8716.6	10612.8	9164.8
50°	13338.5	13238.2	12337.2	11064.0	10590.0	10431.9	9878.9	9675.3	9619.1	11598.8	10214.7
52.5°	13157.7	13150.1	12549.9	11541.1	11270.6	11465.1	11181.0	10945.5	10738.9	12638.1	11282.8
55°	12867.5	12905.5	12636.5	11958.9	11949.8	12408.6	12961.7	12765.7	12167.1	13767.0	12203.5
57.5°	12066.8	12229.4	12587.9	12749.0	13122.7	13592.2	14444.6	14560.1	13852.0	14631.5	12967.8
60°	9790.8	10147.8	11320.8	12862.9	14634.5	15804.4	16234.4	16333.2	15234.7	15350.1	13999.4
62.5°	6949.6	7314.2	8801.7	11410.4	14657.3	18711.0	18900.9	18513.4	16757.1	16415.2	15778.6
65°	3689.0	3970.1	5185.6	8236.5	12708.0	19385.6	23563.8	22409.1	19443.3	18510.4	18077.4
67.5°	1887.0	1972.1	2455.3	4030.9	8736.3	17218.9	27743.6	28556.4	24072.8	20588.9	17966.5
69°	1669.8	1719.9	2040.5	2914.1	5594.3	14584.4	27947.2	30666.8	26496.2	20415.7	16327.1
70°	1616.6	1660.7	1952.4	2637.6	4372.7	12230.9	27167.7	30481.5	27116.1	19756.3	15102.5
72.5°	1372.0	1410.0	1738.2	2330.7	3553.8	6071.4	22068.8	25829.2	24332.6	16457.7	10931.8
75°	917.7	1042.3	1668.3	2184.8	3306.1	3449.0	14549.4	18665.4	17339.0	11100.5	5694.6
77.5°	220.3	237.0	471.0	1738.2	3023.5	3035.7	7482.9	11603.4	9464.1	3956.4	1346.2
80°	118.5	114.0	132.2	344.9	2815.4	2848.8	3368.4	5632.3	3379.1	656.4	443.7
82.5°	83.6	79.0	85.1	144.3	885.8	2595.1	2437.1	2549.5	1400.9	252.2	199.0
85°	30.4	28.9	47.1	130.7	278.0	1492.0	2503.9	2102.8	1135.0	115.5	145.9
87.5°	10.6	9.1	18.2	71.4	85.1	635.1	1545.2	1589.3	446.7	69.9	68.4
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°	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6	6993.6
2.5°	6931.3	6837.1	6663.9	6486.2	6322.1	6124.6	6025.8	5928.6	5887.5	5872.3	5800.9
5°	6730.8	6571.2	6203.6	5834.4	5494.0	5132.4	4893.9	4702.4	4590.0	4535.3	4448.7
7.5°	6474.0	6212.7	5655.1	5085.3	4555.1	4032.4	3645.0	3347.2	3142.0	3043.3	2953.6
10°	6224.8	5876.9	5083.8	4307.4	3587.2	2894.4	2359.6	1972.1	1724.5	1610.5	1537.6
12.5°	6001.5	5550.2	4532.3	3549.2	2645.2	1833.9	1289.9	981.5	828.1	774.9	749.0
15°	5802.4	5249.4	4011.1	2829.1	1791.3	1048.4	705.0	600.1	575.8	575.8	572.8
17.5°	5614.0	4954.6	3508.2	2152.9	1124.3	641.2	536.3	522.7	522.7	528.7	528.7
20°	5433.2	4673.6	3022.0	1545.2	708.0	509.0	484.7	481.6	484.7	492.3	492.3
22.5°	5278.3	4418.3	2567.7	1060.5	525.7	458.8	446.7	442.1	443.7	448.2	451.3
25°	5162.8	4202.6	2139.3	718.7	452.8	417.8	404.2	396.6	390.5	390.5	393.5
27.5°	5089.9	4020.2	1724.5	522.7	407.2	379.8	358.6	346.4	332.7	325.1	328.2
30°	5036.7	3847.0	1335.5	426.9	364.6	337.3	310.0	290.2	270.4	261.3	264.4
32.5°	5016.9	3707.2	998.2	376.8	326.7	296.3	262.8	237.0	215.7	208.2	209.7
35°	5070.1	3596.3	730.8	340.3	296.3	258.3	220.3	191.4	174.7	170.2	171.7
37.5°	5209.9	3537.1	547.0	310.0	268.9	226.4	183.8	156.5	145.9	145.9	147.4
40°	5474.3	3535.6	439.1	288.7	244.6	196.0	151.9	132.2	126.1	129.1	130.7
42.5°	5860.2	3616.1	382.9	268.9	223.3	167.1	126.1	112.4	110.9	114.0	115.5
45°	6387.4	3763.5	352.5	252.2	200.6	139.8	106.4	97.2	97.2	101.8	103.3
47.5°	7033.1	3979.2	326.7	235.5	177.8	117.0	91.2	85.1	86.6	91.2	92.7
50°	7811.0	4251.2	300.8	217.3	161.1	97.2	79.0	74.4	76.0	82.0	83.6
52.5°	8696.8	4617.3	279.6	200.6	139.8	80.5	66.9	63.8	66.9	72.9	74.4
55°	9456.5	4945.5	253.7	186.9	112.4	66.9	54.7	54.7	57.7	65.3	66.9
57.5°	10187.3	5288.9	230.9	161.1	88.1	53.2	45.6	47.1	51.7	59.3	60.8
60°	11260.0	5870.8	203.6	135.2	66.9	42.5	38.0	39.5	45.6	53.2	54.7
62.5°	13081.7	6756.6	176.2	112.4	51.7	33.4	30.4	33.4	41.0	50.1	51.7
65°	14725.7	7116.7	144.3	94.2	39.5	25.8	25.8	30.4	39.5	48.6	50.1
67.5°	13809.5	5990.8	112.4	74.4	30.4	19.8	21.3	28.9	38.0	48.6	50.1
69°	12212.6	4898.4	95.7	59.3	25.8	18.2	19.8	28.9	38.0	47.1	48.6
70°	10968.3	4135.7	85.1	50.1	22.8	18.2	19.8	27.3	38.0	47.1	48.6
72.5°	7346.1	2233.5	68.4	36.5	21.3	16.7	16.7	27.3	36.5	45.6	47.1
75°	3157.2	616.9	54.7	25.8	18.2	15.2	15.2	25.8	34.9	44.1	47.1
77.5°	577.4	156.5	44.1	22.8	18.2	15.2	13.7	24.3	33.4	42.5	44.1
80°	229.4	77.5	34.9	19.8	16.7	13.7	12.2	22.8	31.9	41.0	42.5
82.5°	138.3	44.1	28.9	18.2	16.7	12.2	10.6	19.8	30.4	39.5	41.0
85°	112.4	30.4	22.8	18.2	15.2	12.2	9.1	18.2	27.3	38.0	39.5
87.5°	54.7	21.3	21.3	16.7	15.2	12.2	9.1	16.7	25.8	36.5	38.0
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)