

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: P191127

Luminaire Tested: **GLEON-AF-09-LED-E1-SL3-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191127
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-SL3-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 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: 37573 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

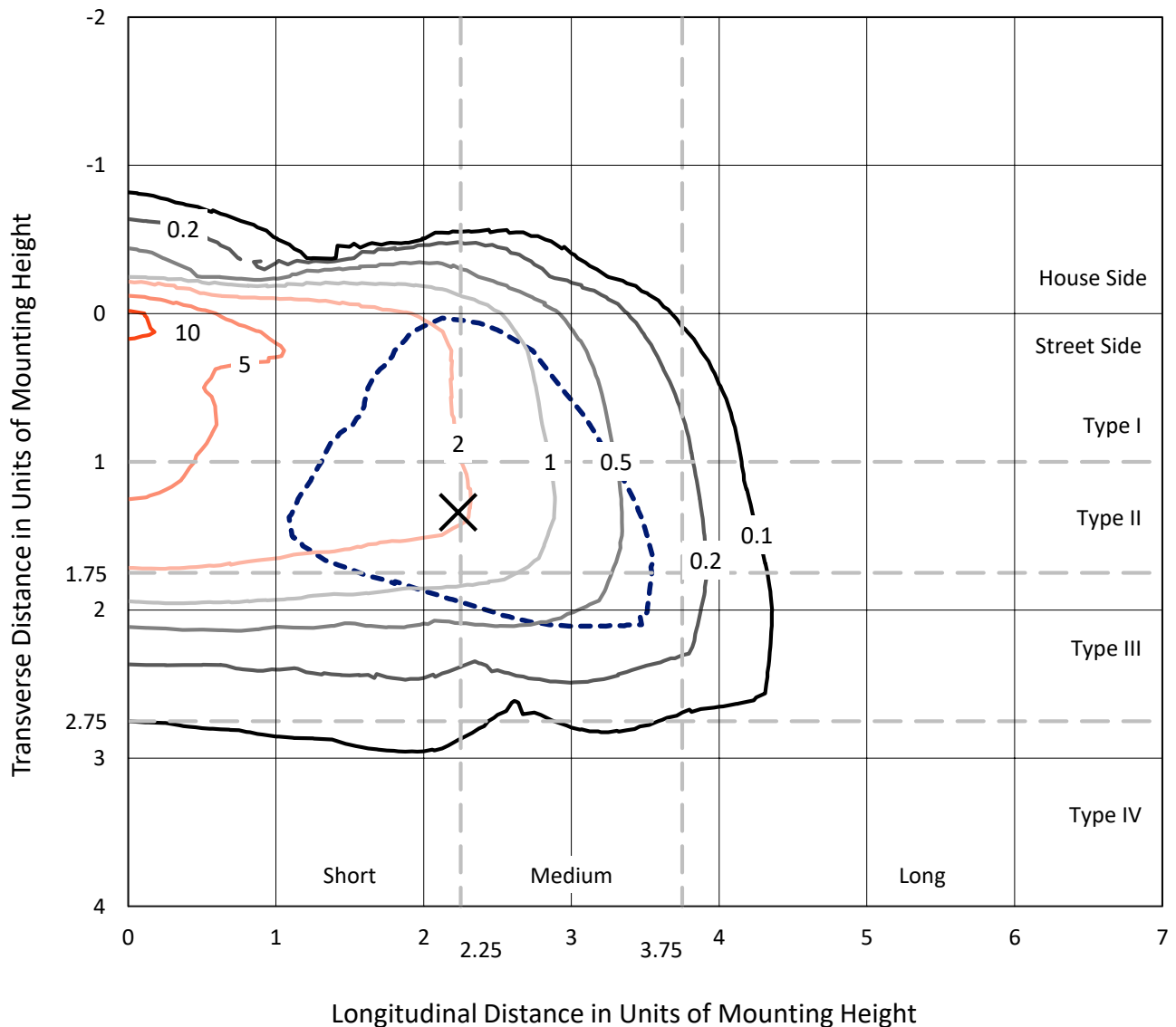
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

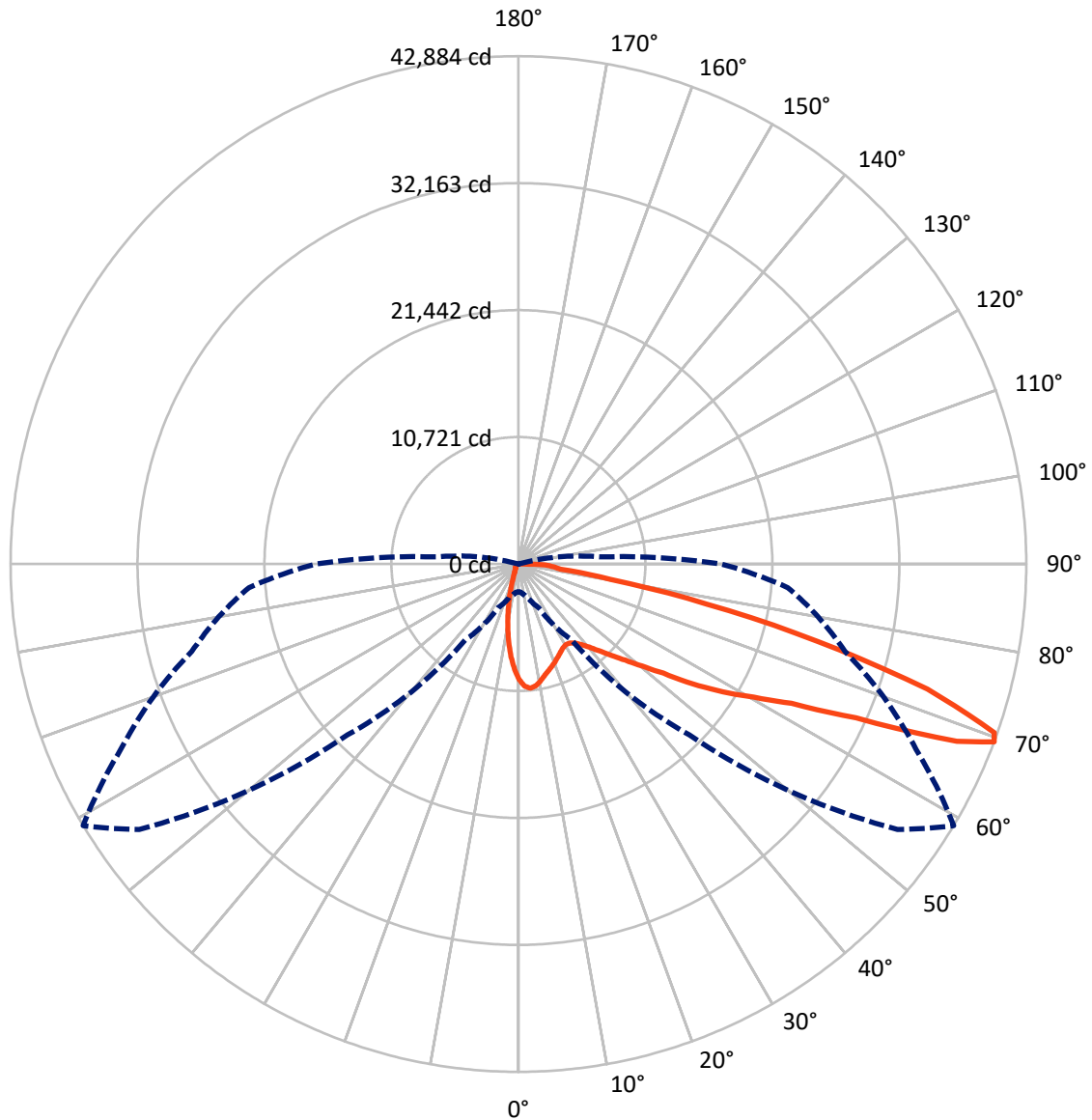
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.9 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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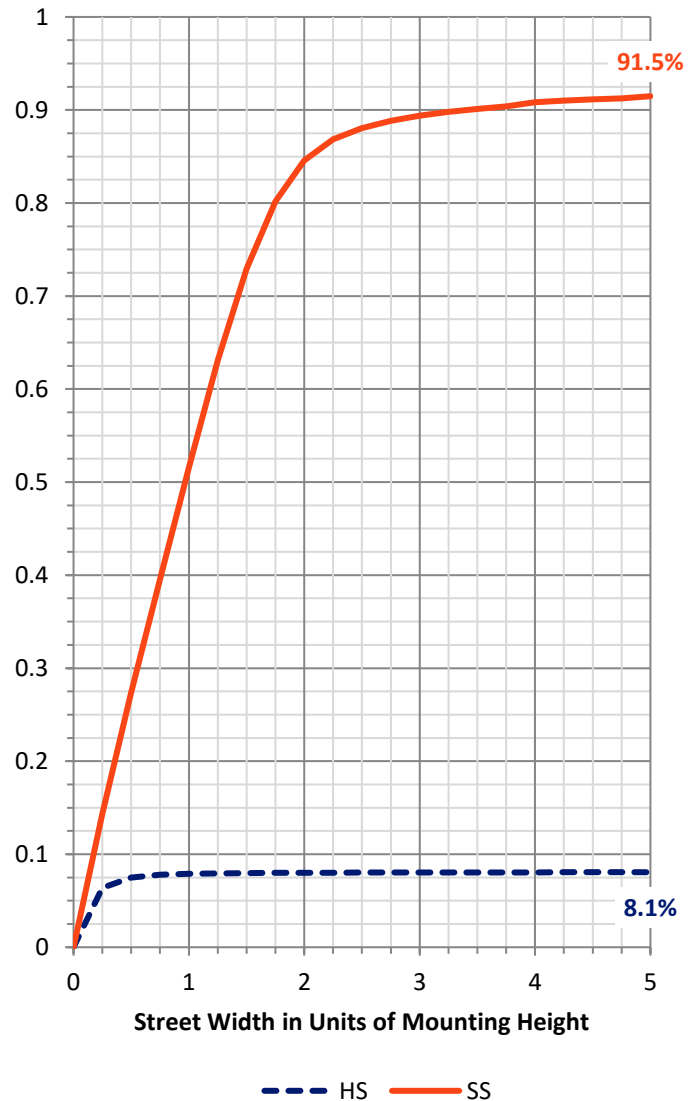
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3059.8	0.0	3059.8
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	34513.2	0.0	34513.2
	% Fixture	91.9	0.0	91.9
Total	Lumens	37573.0	0.0	37573.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	793.8	2.1
10°-20°	1640.3	4.4
20°-30°	2207.2	5.9
30°-40°	3204.7	8.5
40°-50°	5336.1	14.2
50°-60°	8324.1	22.2
60°-70°	10300.5	27.4
70°-80°	5220.2	13.9
80°-90°	546.2	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°	37573.0	100.0
0°-180°	37573.0	100.0



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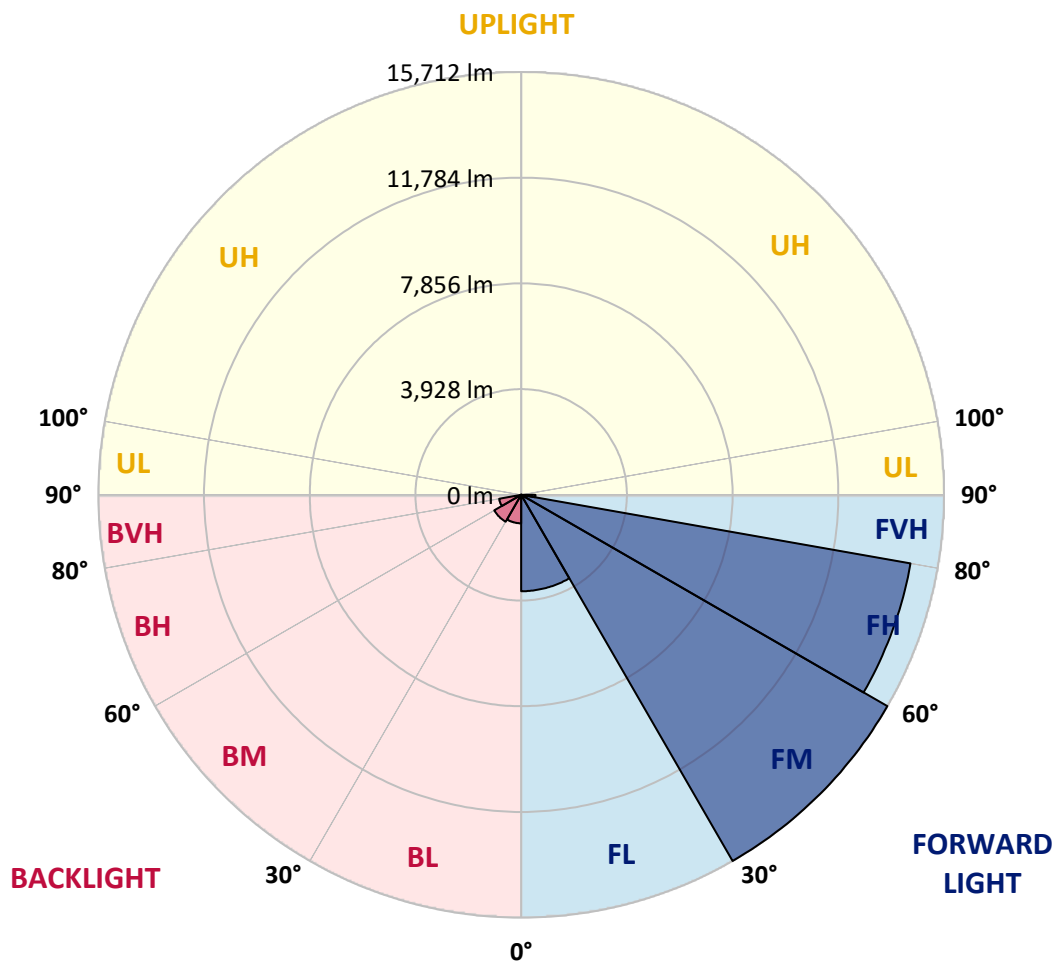
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3582.2	9.5			
FM	(30°-60°)	15711.9	41.8			
FH	(60°-80°)	14689.7	39.1			G5
FVH	(80°-90°)	529.4	1.4			G4/750
BL	(0°-30°)	1059.1	2.8	B3/2500		
BM	(30°-60°)	1152.9	3.1	B2/2500		
BH	(60°-80°)	831.0	2.2	B2/1000		G2/1000
BVH	(80°-90°)	16.8	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	9779.7	9779.7	9779.7	9779.7	9779.7	9779.7	9779.7	9779.7	9779.7	9779.7	9779.7
2.5°	10718.8	10714.6	10667.8	10646.6	10608.3	10527.6	10402.3	10336.4	10230.1	10045.3	9796.7
5°	10621.1	10672.0	10699.7	10701.8	10729.4	10699.7	10587.1	10531.9	10385.2	10087.8	9641.6
7.5°	9958.2	9977.4	10055.9	10123.9	10255.7	10381.0	10421.4	10398.0	10310.9	9992.2	9399.4
10°	9248.6	9267.7	9361.1	9450.4	9628.8	9822.3	10026.1	10068.7	10104.8	9856.2	9165.7
12.5°	8636.7	8655.8	8751.4	8868.3	9076.4	9314.5	9631.0	9701.2	9860.4	9726.6	8978.7
15°	8109.7	8118.2	8211.7	8356.2	8604.8	8910.7	9269.8	9382.4	9626.8	9635.3	8815.2
17.5°	7661.5	7682.7	7740.1	7878.2	8150.2	8528.3	8946.8	9108.4	9395.2	9558.8	8655.8
20°	7387.3	7408.6	7406.5	7483.0	7727.4	8131.0	8623.9	8817.2	9165.7	9480.2	8513.4
22.5°	7334.3	7334.3	7279.0	7268.4	7412.9	7750.7	8288.3	8524.0	8959.6	9446.1	8413.6
25°	7523.4	7514.9	7376.8	7264.2	7270.5	7472.3	7963.2	8243.7	8785.4	9469.6	8360.5
27.5°	7922.8	7912.2	7737.9	7523.4	7351.2	7349.2	7716.7	8018.4	8647.3	9580.0	8381.8
30°	8475.1	8471.0	8281.8	8012.1	7699.8	7412.9	7631.7	7905.8	8558.1	9779.7	8430.5
32.5°	9078.6	9072.2	8929.8	8645.2	8250.0	7699.8	7720.9	7950.4	8583.6	10045.3	8549.5
35°	9718.1	9707.5	9645.9	9397.3	8961.8	8228.7	8014.1	8192.6	8745.0	10442.6	8783.3
37.5°	10410.8	10421.4	10466.0	10228.1	9771.2	8970.3	8504.9	8626.0	9070.1	10982.3	9163.6
40°	11432.7	11430.6	11445.5	11133.1	10693.3	9877.5	9191.2	9229.5	9614.0	11698.3	9741.5
42.5°	13287.5	13157.9	12764.9	12127.5	11685.6	10914.3	10055.9	10015.6	10279.0	12584.2	10551.0
45°	15779.7	15503.5	14483.7	13262.0	12696.9	12082.9	11120.4	10990.8	11158.7	13648.7	11549.5
47.5°	17923.5	17636.7	16194.0	14443.3	13769.8	13191.9	12367.6	12133.8	12189.1	14840.7	12815.8
50°	18652.3	18512.0	17252.1	15471.6	14808.7	14587.8	13814.4	13529.8	13451.1	16219.5	14284.0
52.5°	18399.4	18388.8	17549.5	16138.8	15760.6	16032.5	15635.3	15305.9	15017.0	17672.8	15777.6
55°	17993.6	18046.7	17670.7	16723.1	16710.3	17351.9	18125.4	17851.2	17014.1	19251.4	17065.2
57.5°	16873.9	17101.3	17602.6	17827.9	18350.5	19007.0	20199.0	20360.4	19370.4	20460.3	18133.8
60°	13691.2	14190.5	15830.7	17987.3	20464.5	22100.5	22701.8	22839.9	21303.8	21465.3	19576.4
62.5°	9718.1	10228.1	12308.0	15956.1	20496.5	26164.9	26430.6	25888.7	23432.6	22954.6	22064.4
65°	5158.6	5551.7	7251.4	11517.7	17770.5	27108.3	32951.1	31336.4	27189.0	25884.5	25279.0
67.5°	2638.8	2757.8	3433.4	5636.7	12216.7	24078.5	38795.9	39932.6	33662.9	28791.1	25123.9
69°	2335.0	2405.1	2853.4	4075.0	7822.9	20394.5	39080.7	42883.7	37051.6	28548.8	22831.4
70°	2260.6	2322.2	2730.2	3688.4	6114.7	17103.3	37990.8	42624.6	37918.5	27626.7	21118.9
72.5°	1918.5	1971.6	2430.6	3259.2	4969.5	8490.1	30860.4	36119.0	34026.1	23014.1	15286.8
75°	1283.3	1457.5	2332.8	3055.2	4623.2	4822.9	20345.6	26101.2	24246.4	15522.7	7963.2
77.5°	308.1	331.4	658.7	2430.6	4228.1	4245.0	10463.9	16225.9	13234.4	5532.5	1882.4
80°	165.7	159.4	184.8	482.3	3936.9	3983.7	4710.4	7876.0	4725.2	917.9	620.4
82.5°	116.8	110.5	119.0	201.8	1238.7	3628.9	3408.0	3565.2	1959.0	352.7	278.3
85°	42.5	40.4	65.9	182.7	388.8	2086.4	3501.5	2940.5	1587.1	161.5	204.0
87.5°	14.8	12.8	25.5	99.8	119.0	888.1	2160.8	2222.4	624.6	97.7	95.6
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°	9779.7	9779.7	9779.7	9779.7	9779.7	9779.7	9779.7	9779.7	9779.7	9779.7	9779.7
2.5°	9692.7	9560.9	9318.7	9070.1	8840.6	8564.5	8426.4	8290.4	8233.0	8211.7	8111.9
5°	9412.2	9189.1	8674.9	8158.6	7682.7	7177.0	6843.4	6575.7	6418.5	6342.1	6221.0
7.5°	9053.1	8687.6	7907.9	7111.1	6369.7	5638.8	5097.1	4680.6	4393.8	4255.7	4130.3
10°	8704.7	8218.1	7109.1	6023.3	5016.2	4047.4	3299.5	2757.8	2411.5	2252.1	2150.1
12.5°	8392.3	7761.3	6337.8	4963.2	3699.0	2564.4	1803.9	1372.5	1158.0	1083.6	1047.4
15°	8114.0	7340.6	5609.0	3956.1	2505.0	1466.0	985.8	839.2	805.3	805.3	801.0
17.5°	7850.5	6928.4	4905.8	3010.6	1572.3	896.6	750.0	730.9	730.9	739.4	739.4
20°	7597.8	6535.4	4225.9	2160.8	990.1	711.8	677.8	673.5	677.8	688.3	688.3
22.5°	7381.0	6178.4	3590.7	1483.0	735.1	641.6	624.6	618.3	620.4	626.8	631.1
25°	7219.6	5876.8	2991.5	1004.9	633.1	584.3	565.2	554.5	546.1	546.1	550.2
27.5°	7117.6	5621.8	2411.5	730.9	569.4	531.1	501.5	484.5	465.3	454.7	458.9
30°	7043.2	5379.6	1867.6	597.0	509.9	471.7	433.4	405.8	378.2	365.4	369.7
32.5°	7015.6	5184.1	1395.9	526.9	456.7	414.3	367.5	331.4	301.7	291.0	293.2
35°	7090.0	5029.0	1021.9	475.9	414.3	361.2	308.1	267.7	244.4	237.9	240.1
37.5°	7285.4	4946.2	764.9	433.4	376.0	316.6	257.1	218.8	204.0	204.0	206.1
40°	7655.0	4944.0	614.0	403.7	342.1	274.0	212.5	184.8	176.4	180.6	182.7
42.5°	8194.8	5056.7	535.4	376.0	312.3	233.7	176.4	157.2	155.1	159.4	161.5
45°	8932.0	5262.8	493.0	352.7	280.5	195.5	148.7	136.0	136.0	142.4	144.4
47.5°	9835.0	5564.4	456.7	329.3	248.6	163.6	127.5	119.0	121.1	127.5	129.6
50°	10922.8	5944.8	420.6	303.8	225.3	136.0	110.5	104.1	106.2	114.8	116.8
52.5°	12161.5	6456.8	391.0	280.5	195.5	112.6	93.5	89.2	93.5	102.0	104.1
55°	13223.8	6915.8	354.9	261.4	157.2	93.5	76.5	76.5	80.7	91.3	93.5
57.5°	14245.7	7395.8	322.9	225.3	123.3	74.4	63.7	65.9	72.2	82.9	85.0
60°	15745.8	8209.6	284.7	189.1	93.5	59.5	53.1	55.2	63.7	74.4	76.5
62.5°	18293.1	9448.3	246.4	157.2	72.2	46.7	42.5	46.7	57.4	70.1	72.2
65°	20592.0	9951.8	201.8	131.8	55.2	36.1	36.1	42.5	55.2	68.0	70.1
67.5°	19310.9	8377.5	157.2	104.1	42.5	27.6	29.8	40.4	53.1	68.0	70.1
69°	17077.9	6849.9	133.8	82.9	36.1	25.5	27.6	40.4	53.1	65.9	68.0
70°	15337.8	5783.3	119.0	70.1	31.9	25.5	27.6	38.3	53.1	65.9	68.0
72.5°	10272.7	3123.3	95.6	50.9	29.8	23.3	23.3	38.3	50.9	63.7	65.9
75°	4415.1	862.7	76.5	36.1	25.5	21.3	21.3	36.1	48.9	61.6	65.9
77.5°	807.4	218.8	61.6	31.9	25.5	21.3	19.1	34.0	46.7	59.5	61.6
80°	320.8	108.3	48.9	27.6	23.3	19.1	17.0	31.9	44.6	57.4	59.5
82.5°	193.3	61.6	40.4	25.5	23.3	17.0	14.8	27.6	42.5	55.2	57.4
85°	157.2	42.5	31.9	25.5	21.3	17.0	12.8	25.5	38.3	53.1	55.2
87.5°	76.5	29.8	29.8	23.3	21.3	17.0	12.8	23.3	36.1	50.9	53.1
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)