

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: P269639

Luminaire Tested: **GLEON-AF-09-LED-E1-SL3-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269639
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-SL3-7027-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA 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: 43328.5 lumens
Efficiency: N/A
Efficacy: 75.4 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): 575
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

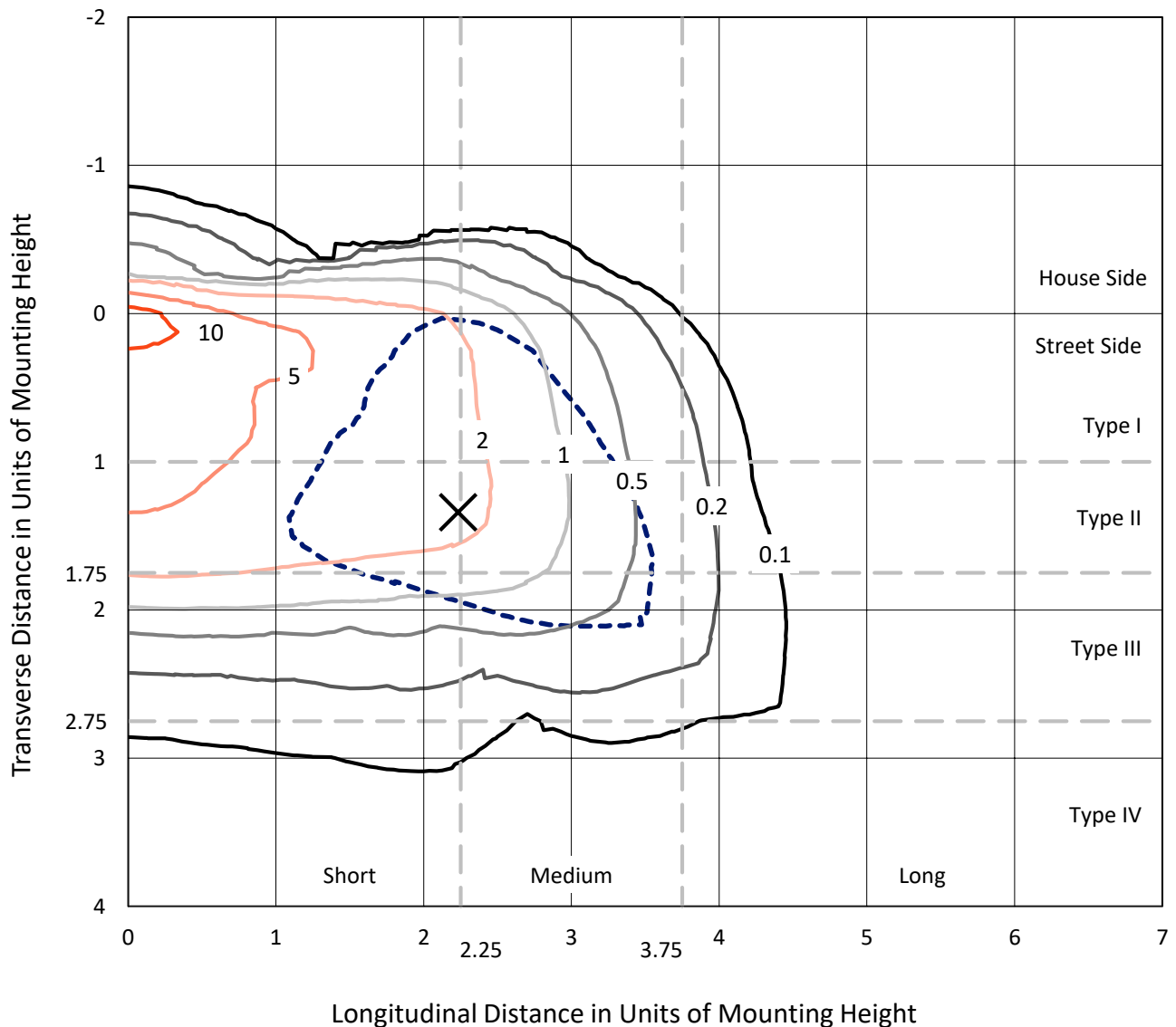


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

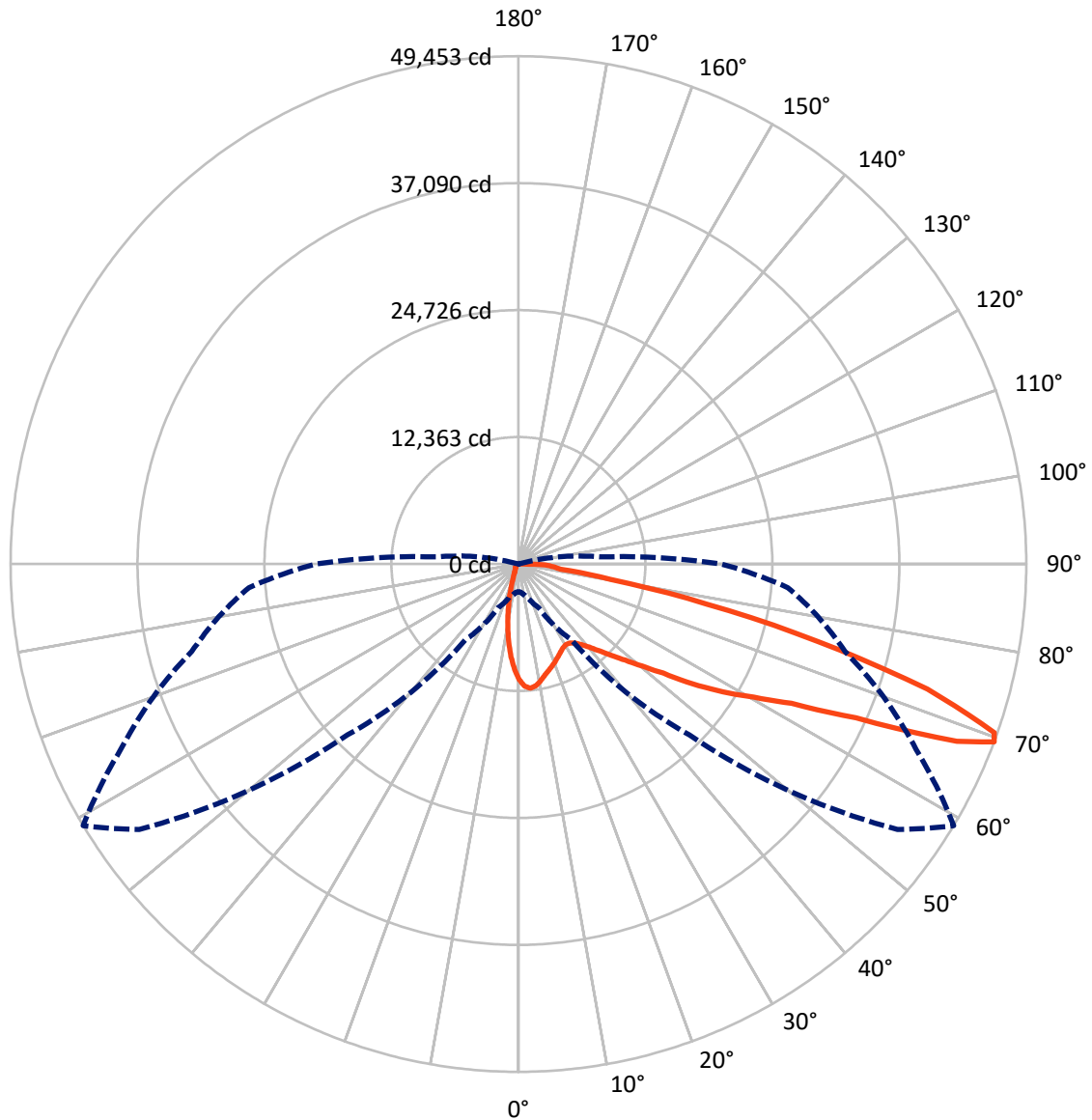


Based on 30 foot mounting height. Maximum calculated value = 12.6 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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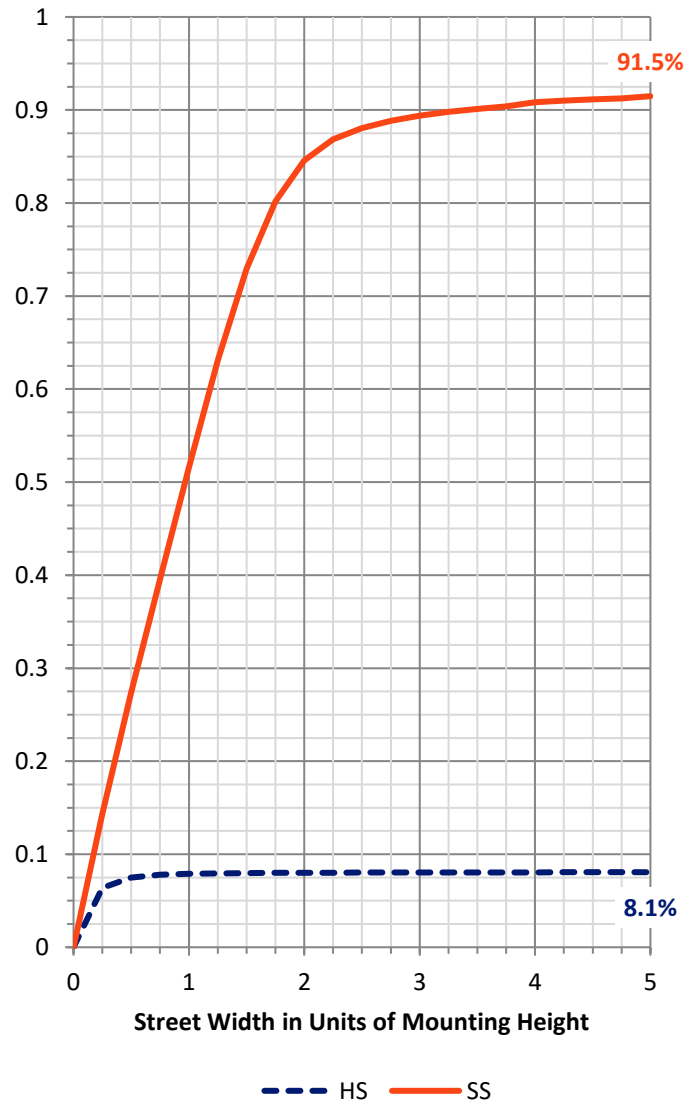
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3528.5	0.0	3528.5
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	39800.0	0.0	39800.0
	% Fixture	91.9	0.0	91.9
Total	Lumens	43328.5	0.0	43328.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	915.4	2.1
10°-20°	1891.5	4.4
20°-30°	2545.3	5.9
30°-40°	3695.6	8.5
40°-50°	6153.4	14.2
50°-60°	9599.2	22.2
60°-70°	11878.3	27.4
70°-80°	6019.8	13.9
80°-90°	629.9	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°	43328.5	100.0
0°-180°	43328.5	100.0



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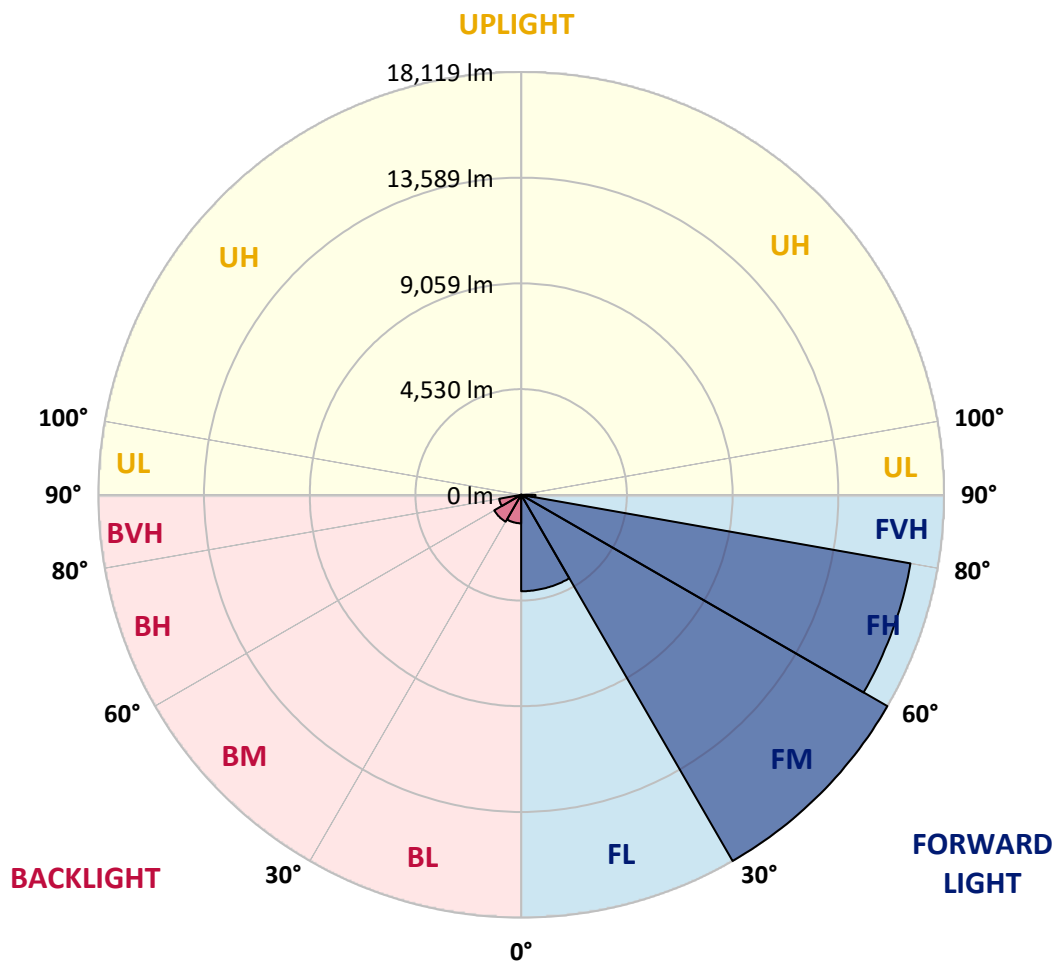
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4130.9	9.5			
FM (30°-60°)	18118.7	41.8			
FH (60°-80°)	16939.9	39.1			G5
FVH (80°-90°)	610.5	1.4			G4/750
BL (0°-30°)	1221.3	2.8	B3/2500		
BM (30°-60°)	1329.5	3.1	B2/2500		
BH (60°-80°)	958.3	2.2	B2/1000		G2/1000
BVH (80°-90°)	19.4	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°	11277.9	11277.9	11277.9	11277.9	11277.9	11277.9	11277.9	11277.9	11277.9	11277.9	11277.9
2.5°	12360.8	12355.8	12302.0	12277.5	12233.4	12140.2	11995.6	11919.7	11797.3	11584.1	11297.4
5°	12248.0	12306.9	12338.7	12341.2	12373.1	12338.7	12208.9	12145.2	11976.1	11633.1	11118.5
7.5°	11483.7	11505.8	11596.3	11674.7	11826.6	11971.3	12017.7	11990.8	11890.3	11522.7	10839.3
10°	10665.2	10687.3	10795.1	10898.1	11103.9	11326.8	11562.1	11611.0	11652.6	11366.1	10569.7
12.5°	9959.7	9981.6	10092.0	10226.8	10466.8	10741.3	11106.4	11187.1	11370.9	11216.5	10354.1
15°	9352.1	9361.9	9469.7	9636.3	9922.9	10275.7	10689.8	10819.6	11101.4	11111.1	10165.5
17.5°	8835.1	8859.5	8925.6	9085.0	9398.5	9834.7	10317.4	10503.6	10834.4	11023.0	9981.6
20°	8518.9	8543.5	8541.1	8629.3	8910.9	9376.5	9945.0	10167.9	10569.7	10932.4	9817.5
22.5°	8457.7	8457.7	8394.0	8381.7	8548.5	8938.0	9557.8	9829.9	10332.0	10893.1	9702.5
25°	8675.8	8665.9	8506.7	8376.9	8384.2	8617.0	9183.0	9506.4	10131.2	10920.1	9641.1
27.5°	9136.4	9124.2	8923.3	8675.8	8477.3	8474.9	8898.8	9246.7	9971.9	11047.4	9665.7
30°	9773.4	9768.6	9550.5	9239.2	8879.1	8548.5	8800.8	9116.8	9869.0	11277.9	9721.9
32.5°	10469.2	10461.9	10297.8	9969.5	9513.7	8879.1	8903.7	9168.3	9898.5	11584.1	9859.2
35°	11206.7	11194.5	11123.4	10836.9	10334.6	9489.2	9241.8	9447.6	10084.6	12042.1	10128.7
37.5°	12005.5	12017.7	12069.2	11794.7	11268.0	10344.3	9807.8	9947.4	10459.4	12664.6	10567.3
40°	13184.0	13181.5	13198.6	12838.5	12331.4	11390.5	10599.1	10643.2	11086.7	13490.2	11233.8
42.5°	15322.8	15173.5	14720.2	13985.2	13475.6	12586.2	11596.3	11549.8	11853.6	14511.8	12167.3
45°	18196.8	17878.3	16702.4	15293.6	14641.8	13933.7	12823.8	12674.4	12868.0	15739.5	13318.7
47.5°	20669.0	20338.3	18674.7	16655.7	15879.1	15212.6	14262.0	13992.4	14056.1	17113.9	14778.9
50°	21509.5	21347.7	19894.9	17841.6	17077.1	16822.4	15930.5	15602.2	15511.6	18704.1	16472.0
52.5°	21217.8	21205.6	20237.8	18610.9	18174.9	18488.5	18030.3	17650.4	17317.3	20379.8	18194.5
55°	20749.9	20811.2	20377.5	19284.8	19270.0	20009.9	20901.9	20585.6	19620.4	22200.4	19679.2
57.5°	19458.6	19720.9	20299.1	20558.8	21161.6	21918.6	23293.1	23479.3	22337.6	23594.4	20911.6
60°	15788.4	16364.2	18255.6	20742.6	23599.4	25486.0	26179.3	26338.6	24567.1	24753.3	22575.2
62.5°	11206.7	11794.7	14193.4	18400.3	23636.2	30173.0	30479.2	29854.5	27022.2	26470.8	25444.3
65°	5948.8	6402.1	8362.2	13282.0	20492.7	31260.7	37998.6	36136.5	31353.9	29849.6	29151.3
67.5°	3043.0	3180.2	3959.4	6500.1	14088.1	27767.0	44738.7	46049.6	38819.4	33201.3	28972.5
69°	2692.7	2773.4	3290.5	4699.4	9021.3	23518.4	45067.1	49452.9	42727.3	32922.0	26328.8
70°	2606.9	2677.9	3148.4	4253.4	7051.3	19723.2	43810.2	49153.8	43726.8	31858.6	24353.9
72.5°	2212.4	2273.7	2802.9	3758.5	5730.7	9790.5	35587.8	41651.7	39238.3	26539.4	17628.5
75°	1479.9	1680.8	2690.2	3523.2	5331.4	5561.8	23462.1	30099.5	27960.6	17900.4	9183.0
77.5°	355.3	382.1	759.5	2802.9	4875.7	4895.4	12066.8	18711.3	15261.7	6380.0	2170.8
80°	191.1	183.8	213.2	556.2	4540.0	4593.9	5432.0	9082.6	5448.9	1058.5	715.4
82.5°	134.7	127.4	137.3	232.8	1428.5	4184.8	3929.9	4111.3	2259.0	406.8	321.0
85°	49.0	46.5	75.9	210.7	448.3	2406.0	4037.7	3390.9	1830.2	186.2	235.1
87.5°	17.2	14.7	29.5	115.2	137.3	1024.2	2491.8	2562.9	720.4	112.6	110.2
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°	11277.9	11277.9	11277.9	11277.9	11277.9	11277.9	11277.9	11277.9	11277.9	11277.9	11277.9
2.5°	11177.3	11025.4	10746.2	10459.4	10194.9	9876.3	9717.1	9560.3	9494.1	9469.7	9354.5
5°	10854.0	10596.6	10003.7	9408.4	8859.5	8276.4	7891.8	7583.0	7401.8	7313.6	7173.9
7.5°	10439.8	10018.4	9119.2	8200.4	7345.4	6502.7	5877.8	5397.6	5066.8	4907.5	4763.1
10°	10038.1	9476.9	8198.0	6946.1	5784.6	4667.5	3805.0	3180.2	2780.9	2597.1	2479.5
12.5°	9677.9	8950.3	7308.6	5723.5	4265.6	2957.3	2080.1	1582.8	1335.3	1249.5	1208.0
15°	9356.9	8465.1	6468.2	4562.1	2888.7	1690.6	1136.8	967.7	928.6	928.6	923.6
17.5°	9053.1	7989.7	5657.3	3471.8	1813.0	1033.9	864.9	842.8	842.8	852.6	852.6
20°	8761.6	7536.5	4873.2	2491.8	1141.7	820.8	781.5	776.7	781.5	793.8	793.8
22.5°	8511.6	7124.8	4140.6	1710.2	847.7	739.9	720.4	713.0	715.4	722.7	727.6
25°	8325.4	6777.0	3449.8	1159.0	730.1	673.8	651.7	639.5	629.7	629.7	634.6
27.5°	8207.9	6483.0	2780.9	842.8	656.7	612.6	578.1	558.7	536.6	524.3	529.2
30°	8122.0	6203.6	2153.6	688.6	588.0	544.0	499.8	467.9	436.0	421.5	426.3
32.5°	8090.2	5978.2	1609.8	607.7	526.8	477.8	423.9	382.1	348.0	335.6	338.1
35°	8176.0	5799.4	1178.4	548.9	477.8	416.5	355.3	308.7	281.8	274.4	276.9
37.5°	8401.4	5703.8	882.0	499.8	433.6	365.2	296.5	252.3	235.1	235.1	237.6
40°	8827.7	5701.5	708.0	465.5	394.4	316.1	245.0	213.2	203.3	208.2	210.7
42.5°	9450.0	5831.3	617.5	433.6	360.2	269.5	203.3	181.3	178.9	183.8	186.2
45°	10300.2	6068.9	568.4	406.8	323.4	225.5	171.4	156.8	156.8	164.2	166.6
47.5°	11341.6	6416.9	526.8	379.8	286.6	188.6	147.1	137.3	139.6	147.1	149.5
50°	12595.9	6855.3	485.2	350.3	259.7	156.8	127.4	120.1	122.4	132.3	134.7
52.5°	14024.3	7445.8	450.8	323.4	225.5	129.8	107.7	102.9	107.7	117.6	120.1
55°	15249.4	7975.1	409.2	301.3	181.3	107.7	88.3	88.3	93.2	105.3	107.7
57.5°	16427.9	8528.8	372.3	259.7	142.1	85.8	73.5	75.9	83.4	95.6	98.1
60°	18157.7	9467.1	328.3	218.1	107.7	68.6	61.3	63.7	73.5	85.8	88.3
62.5°	21095.3	10895.6	284.3	181.3	83.4	53.9	49.0	53.9	66.1	80.8	83.4
65°	23746.3	11476.2	232.8	152.0	63.7	41.6	41.6	49.0	63.7	78.4	80.8
67.5°	22269.0	9660.7	181.3	120.1	49.0	31.9	34.2	46.5	61.3	78.4	80.8
69°	19693.9	7899.2	154.4	95.6	41.6	29.5	31.9	46.5	61.3	75.9	78.4
70°	17687.3	6669.1	137.3	80.8	36.7	29.5	31.9	44.0	61.3	75.9	78.4
72.5°	11846.2	3601.7	110.2	58.7	34.2	26.9	26.9	44.0	58.7	73.5	75.9
75°	5091.4	994.8	88.3	41.6	29.5	24.6	24.6	41.6	56.4	71.1	75.9
77.5°	931.1	252.3	71.1	36.7	29.5	24.6	22.1	39.2	53.9	68.6	71.1
80°	369.9	125.0	56.4	31.9	26.9	22.1	19.7	36.7	51.5	66.1	68.6
82.5°	223.0	71.1	46.5	29.5	26.9	19.7	17.2	31.9	49.0	63.7	66.1
85°	181.3	49.0	36.7	29.5	24.6	19.7	14.7	29.5	44.0	61.3	63.7
87.5°	88.3	34.2	34.2	26.9	24.6	19.7	14.7	26.9	41.6	58.7	61.3
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)