

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: P191128

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191128
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-SL3-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 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: 41600.4 lumens
Efficiency: N/A
Efficacy: 99.3 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

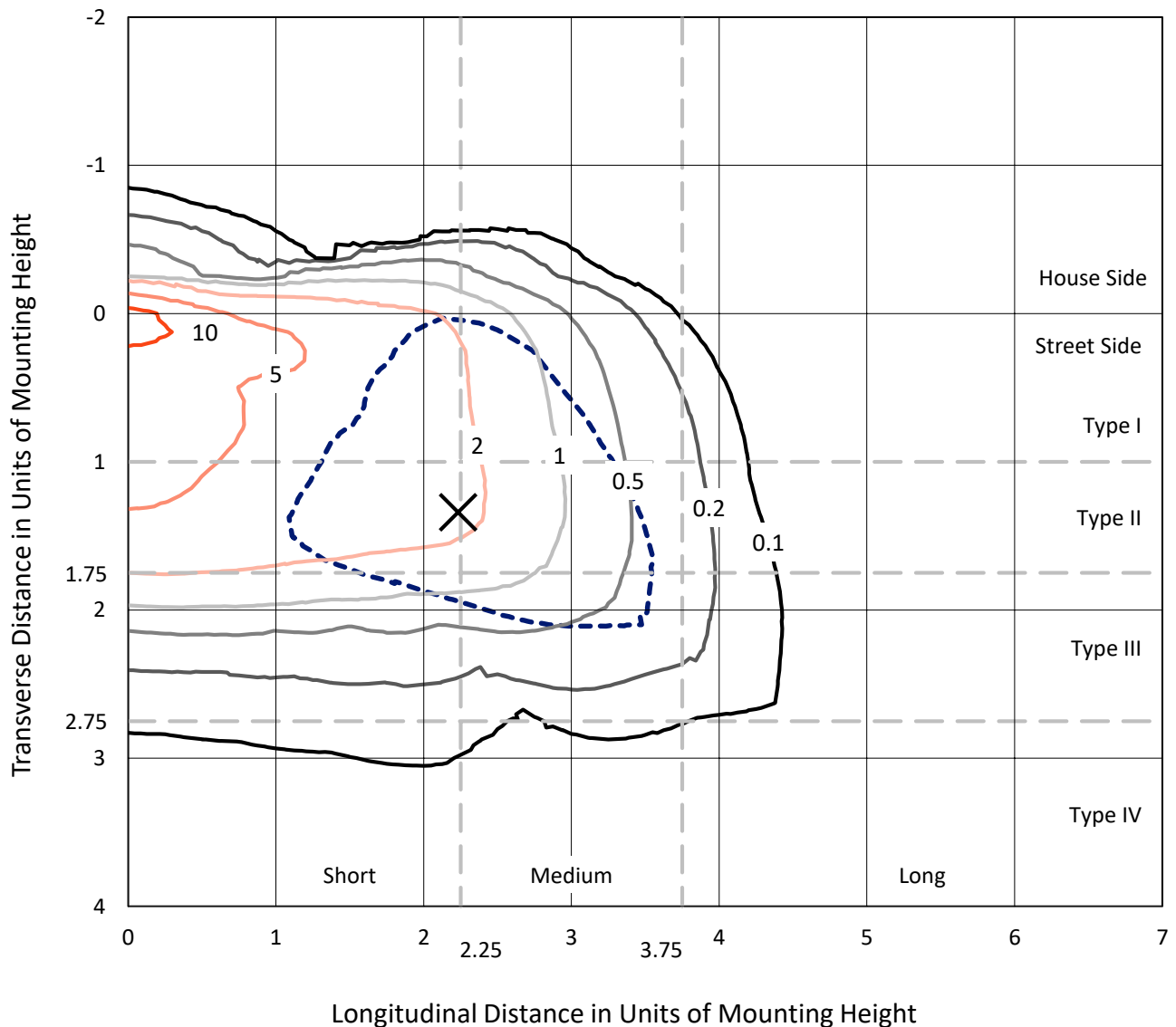
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

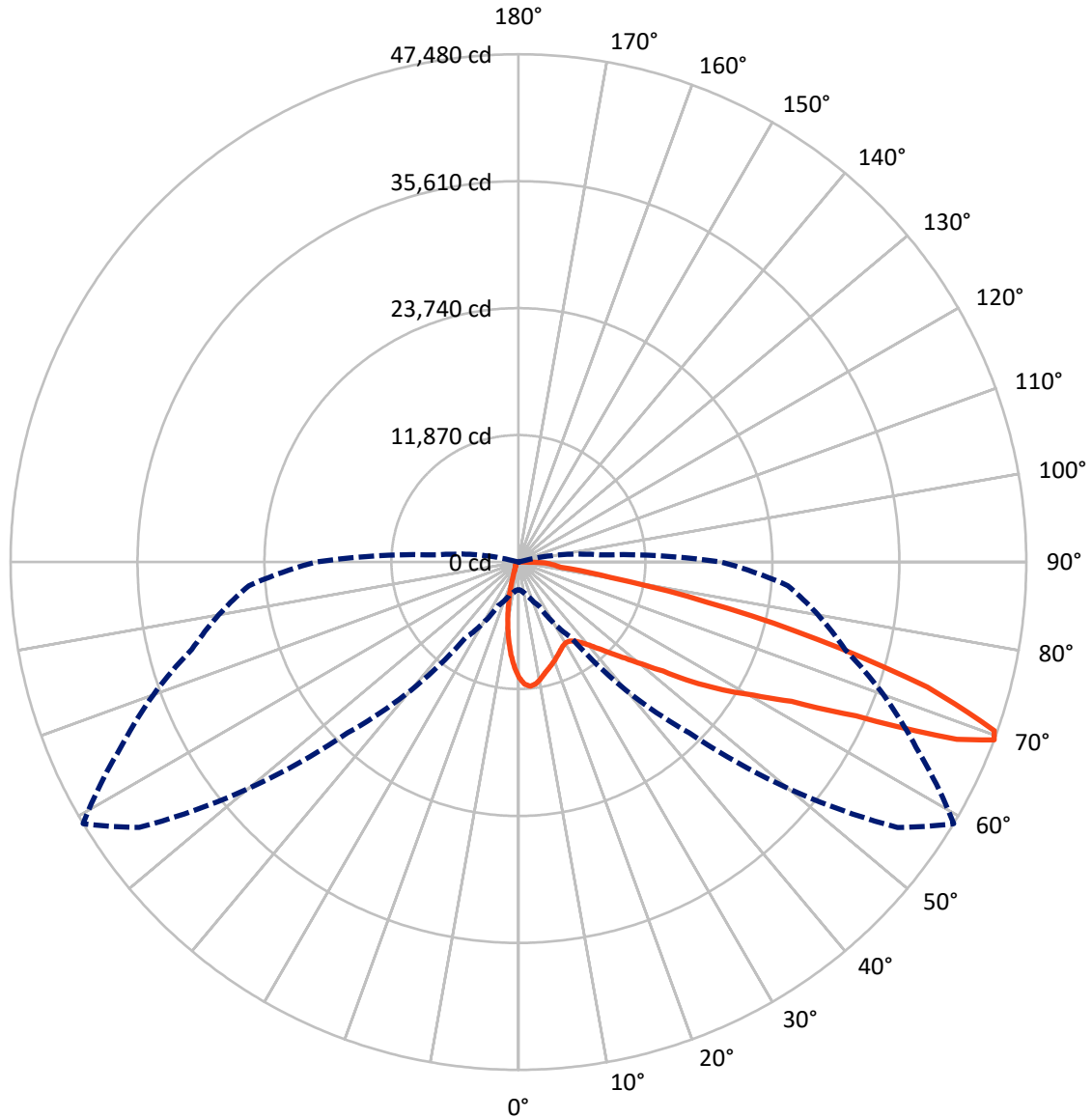
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.1 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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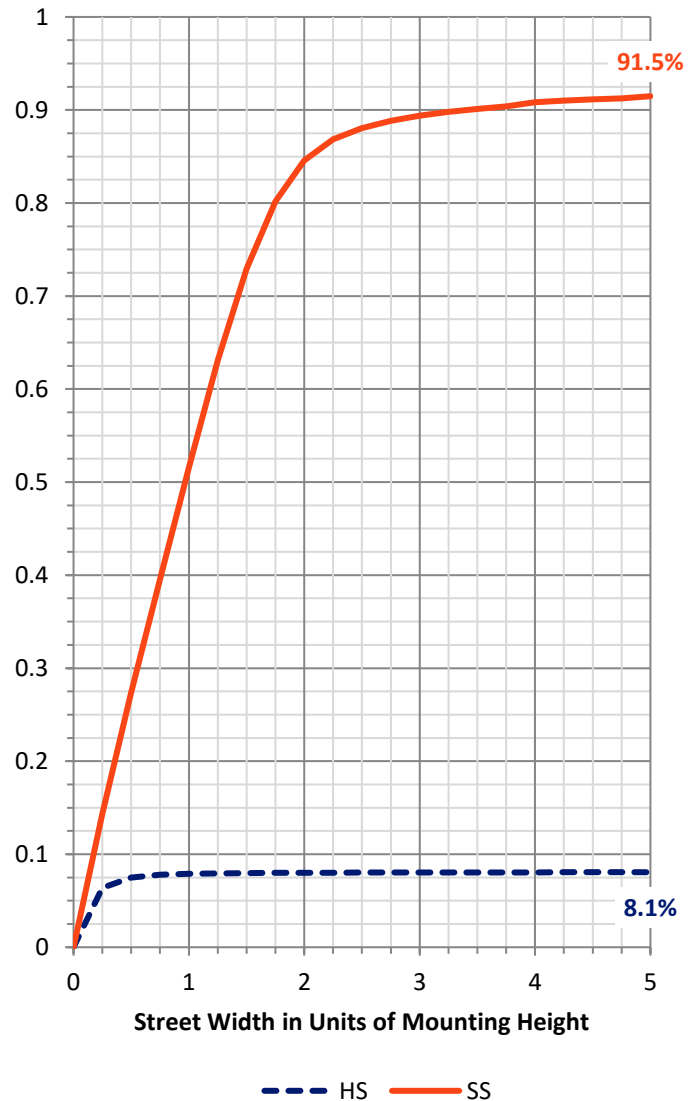
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3387.8	0.0	3387.8
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	38212.5	0.0	38212.5
	% Fixture	91.9	0.0	91.9
Total	Lumens	41600.4	0.0	41600.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	878.9	2.1
10°-20°	1816.1	4.4
20°-30°	2443.8	5.9
30°-40°	3548.2	8.5
40°-50°	5908.0	14.2
50°-60°	9216.4	22.2
60°-70°	11404.6	27.4
70°-80°	5779.7	13.9
80°-90°	604.8	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°	41600.4	100.0
0°-180°	41600.4	100.0



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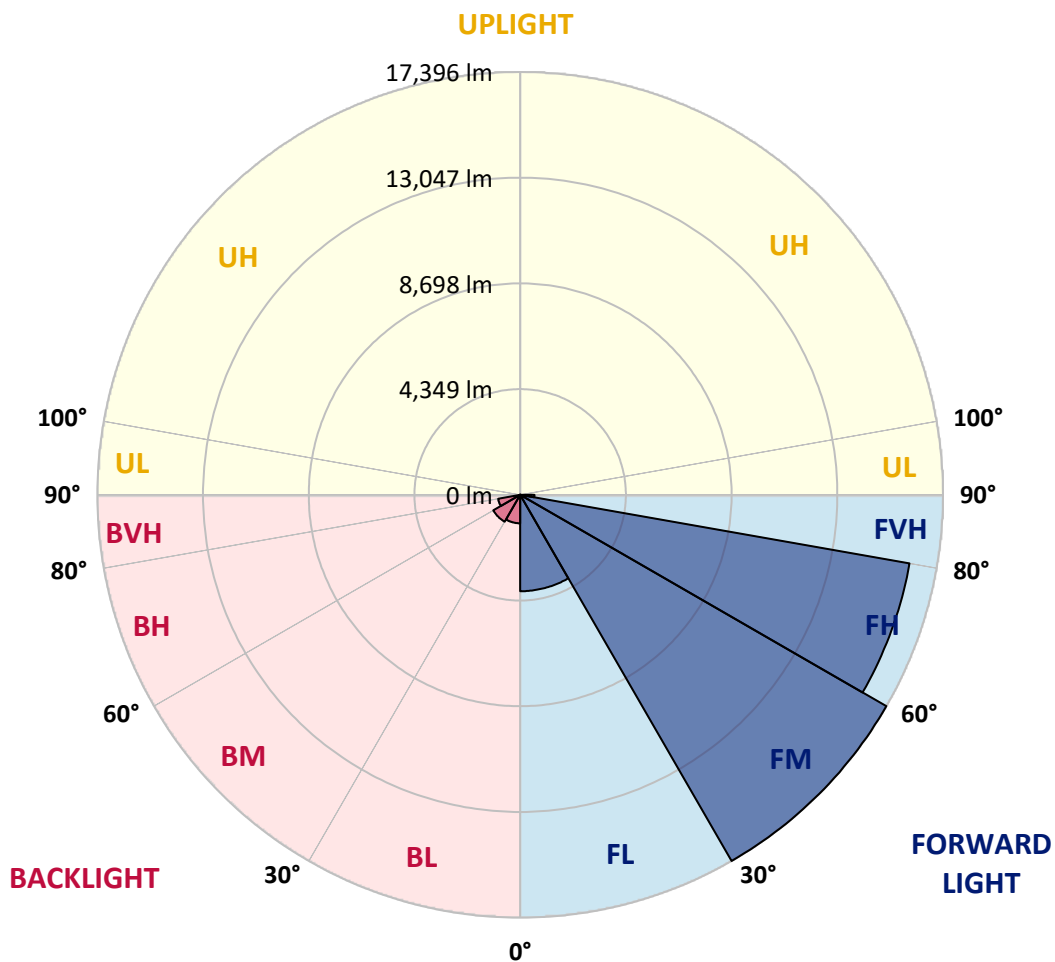
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3966.1	9.5			
FM	(30°-60°)	17396.0	41.8			
FH	(60°-80°)	16264.2	39.1			G5
FVH	(80°-90°)	586.2	1.4			G4/750
BL	(0°-30°)	1172.6	2.8	B3/2500		
BM	(30°-60°)	1276.5	3.1	B2/2500		
BH	(60°-80°)	920.1	2.2	B2/1000		G2/1000
BVH	(80°-90°)	18.6	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°	10828.0	10828.0	10828.0	10828.0	10828.0	10828.0	10828.0	10828.0	10828.0	10828.0	10828.0
2.5°	11867.8	11863.1	11811.3	11787.8	11745.4	11656.0	11517.2	11444.4	11326.7	11122.0	10846.9
5°	11759.5	11816.0	11846.6	11848.9	11879.5	11846.6	11721.9	11660.7	11498.4	11169.1	10675.1
7.5°	11025.6	11046.7	11133.8	11209.1	11355.0	11493.7	11538.4	11512.5	11416.1	11063.2	10406.9
10°	10239.9	10261.1	10364.5	10463.4	10661.0	10875.0	11100.9	11147.9	11187.9	10912.6	10148.2
12.5°	9562.4	9583.6	9689.5	9818.8	10049.4	10312.8	10663.3	10741.0	10917.3	10769.2	9941.1
15°	8979.1	8988.5	9092.0	9251.9	9527.2	9865.8	10263.5	10388.1	10658.6	10668.0	9760.0
17.5°	8482.7	8506.2	8569.7	8722.6	9023.8	9442.4	9905.8	10084.7	10402.2	10583.3	9583.6
20°	8179.2	8202.7	8200.4	8285.1	8555.6	9002.6	9548.3	9762.3	10148.2	10496.3	9426.0
22.5°	8120.4	8120.4	8059.2	8047.5	8207.4	8581.4	9176.6	9437.7	9920.0	10458.6	9315.4
25°	8329.8	8320.4	8167.4	8042.7	8049.8	8273.3	8816.7	9127.2	9727.0	10484.5	9256.6
27.5°	8772.0	8760.2	8567.3	8329.8	8139.2	8136.9	8543.8	8877.9	9574.2	10606.9	9280.1
30°	9383.6	9378.9	9169.5	8870.8	8525.0	8207.4	8449.8	8753.2	9475.4	10828.0	9334.2
32.5°	10051.7	10044.7	9887.0	9571.9	9134.2	8525.0	8548.5	8802.6	9503.6	11122.0	9466.0
35°	10759.8	10748.0	10679.8	10404.5	9922.3	9110.8	8873.2	9070.8	9682.4	11561.9	9724.7
37.5°	11526.6	11538.4	11587.8	11324.4	10818.6	9931.7	9416.6	9550.7	10042.3	12159.4	10145.8
40°	12658.1	12655.7	12672.2	12326.5	11839.5	10936.2	10176.4	10218.8	10644.5	12952.2	10785.7
42.5°	14711.8	14568.3	14133.1	13427.4	12938.1	12084.1	11133.8	11089.1	11380.8	13933.1	11681.9
45°	17471.1	17165.3	16036.2	14683.5	14057.8	13377.9	12312.3	12168.8	12354.7	15111.6	12787.5
47.5°	19844.6	19527.1	17929.8	15991.5	15245.8	14605.9	13693.2	13434.4	13495.6	16431.4	14189.6
50°	20651.5	20496.3	19101.4	17130.0	16396.1	16151.5	15295.2	14980.0	14892.9	17958.0	15815.0
52.5°	20371.6	20359.8	19430.6	17868.7	17449.9	17751.1	17311.2	16946.5	16626.6	19567.1	17468.7
55°	19922.3	19981.1	19564.8	18515.6	18501.5	19211.8	20068.1	19764.6	18837.8	21314.9	18894.3
57.5°	18682.6	18934.3	19489.5	19738.8	20317.4	21044.3	22364.1	22542.9	21446.7	22653.3	20077.6
60°	15158.7	15711.5	17527.5	19915.2	22658.1	24469.4	25135.1	25288.1	23587.3	23766.1	21674.8
62.5°	10759.8	11324.4	13627.3	17666.4	22693.3	28969.6	29263.6	28663.7	25944.4	25415.1	24429.4
65°	5711.5	6146.8	8028.6	12752.2	19675.3	30014.0	36483.0	34695.2	30103.4	28659.0	27988.5
67.5°	2921.6	3053.4	3801.5	6240.8	13526.2	26659.5	42954.4	44213.0	37271.1	31877.1	27816.9
69°	2585.3	2662.8	3159.3	4511.8	8661.4	22580.5	43269.6	47480.4	41023.1	31608.9	25278.6
70°	2503.0	2571.2	3022.8	4083.7	6770.1	18936.7	42062.8	47193.4	41982.9	30588.0	23382.6
72.5°	2124.2	2183.0	2691.1	3608.6	5502.2	9400.1	34168.3	39990.4	37673.3	25481.0	16925.3
75°	1420.9	1613.7	2583.0	3382.7	5118.7	5339.9	22526.4	28899.0	26845.3	17186.5	8816.7
77.5°	341.1	366.9	729.3	2691.1	4681.2	4700.0	11585.4	17965.1	14653.0	6125.6	2084.2
80°	183.5	176.5	204.7	534.0	4359.0	4410.7	5215.2	8720.2	5231.7	1016.2	686.9
82.5°	129.4	122.3	131.8	223.5	1371.5	4017.8	3773.3	3947.3	2168.9	390.5	308.1
85°	47.1	44.7	72.9	202.3	430.5	2310.0	3876.7	3255.6	1757.2	178.8	225.9
87.5°	16.5	14.1	28.2	110.6	131.8	983.3	2392.4	2460.6	691.6	108.2	105.9
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°	10828.0	10828.0	10828.0	10828.0	10828.0	10828.0	10828.0	10828.0	10828.0	10828.0	10828.0
2.5°	10731.6	10585.7	10317.5	10042.3	9788.2	9482.4	9329.5	9178.9	9115.4	9092.0	8981.4
5°	10421.0	10174.1	9604.8	9033.2	8506.2	7946.3	7577.0	7280.6	7106.5	7021.8	6887.7
7.5°	10023.5	9618.9	8755.5	7873.4	7052.4	6243.2	5643.3	5182.3	4864.7	4711.8	4573.0
10°	9637.7	9099.0	7871.1	6669.0	5554.0	4481.2	3653.3	3053.4	2669.9	2493.5	2380.6
12.5°	9291.9	8593.2	7017.1	5495.2	4095.5	2839.3	1997.2	1519.6	1282.1	1199.7	1159.7
15°	8983.8	8127.4	6210.2	4380.2	2773.4	1623.1	1091.5	929.1	891.5	891.5	886.8
17.5°	8692.0	7671.1	5431.7	3333.3	1740.8	992.7	830.4	809.3	809.3	818.7	818.7
20°	8412.1	7235.9	4678.9	2392.4	1096.2	788.1	750.4	745.7	750.4	762.2	762.2
22.5°	8172.1	6840.7	3975.5	1641.9	814.0	710.4	691.6	684.6	686.9	694.0	698.7
25°	7993.3	6506.7	3312.1	1112.7	701.0	646.9	625.7	614.0	604.6	604.6	609.3
27.5°	7880.5	6224.3	2669.9	809.3	630.4	588.1	555.2	536.3	515.2	503.4	508.1
30°	7798.2	5956.2	2067.7	661.0	564.6	522.2	479.9	449.3	418.7	404.6	409.3
32.5°	7767.6	5739.8	1545.5	583.4	505.7	458.7	406.9	366.9	334.0	322.2	324.6
35°	7849.9	5568.1	1131.5	526.9	458.7	399.9	341.1	296.3	270.6	263.5	265.9
37.5°	8066.3	5476.4	846.9	479.9	416.3	350.5	284.7	242.3	225.9	225.9	228.2
40°	8475.7	5474.0	679.9	446.9	378.7	303.4	235.3	204.7	195.3	200.0	202.3
42.5°	9073.2	5598.6	592.8	416.3	345.8	258.8	195.3	174.1	171.8	176.5	178.8
45°	9889.4	5826.8	545.7	390.5	310.5	216.5	164.7	150.6	150.6	157.6	160.0
47.5°	10889.1	6160.9	505.7	364.6	275.3	181.2	141.2	131.8	134.1	141.2	143.5
50°	12093.5	6582.0	465.7	336.3	249.4	150.6	122.3	115.3	117.6	127.1	129.4
52.5°	13465.0	7148.9	432.8	310.5	216.5	124.7	103.5	98.8	103.5	112.9	115.3
55°	14641.2	7657.0	392.8	289.4	174.1	103.5	84.7	84.7	89.4	101.2	103.5
57.5°	15772.7	8188.6	357.5	249.4	136.5	82.3	70.6	72.9	80.0	91.8	94.1
60°	17433.4	9089.6	315.2	209.4	103.5	65.9	58.8	61.2	70.6	82.3	84.7
62.5°	20254.0	10461.0	272.9	174.1	80.0	51.8	47.1	51.8	63.5	77.6	80.0
65°	22799.2	11018.5	223.5	145.9	61.2	40.0	40.0	47.1	61.2	75.3	77.6
67.5°	21380.8	9275.4	174.1	115.3	47.1	30.6	32.9	44.7	58.8	75.3	77.6
69°	18908.4	7584.1	148.2	91.8	40.0	28.2	30.6	44.7	58.8	72.9	75.3
70°	16981.8	6403.2	131.8	77.6	35.3	28.2	30.6	42.4	58.8	72.9	75.3
72.5°	11373.8	3458.0	105.9	56.5	32.9	25.9	25.9	42.4	56.5	70.6	72.9
75°	4888.3	955.0	84.7	40.0	28.2	23.5	23.5	40.0	54.1	68.2	72.9
77.5°	893.9	242.3	68.2	35.3	28.2	23.5	21.2	37.6	51.8	65.9	68.2
80°	355.2	120.0	54.1	30.6	25.9	21.2	18.8	35.3	49.4	63.5	65.9
82.5°	214.1	68.2	44.7	28.2	25.9	18.8	16.5	30.6	47.1	61.2	63.5
85°	174.1	47.1	35.3	28.2	23.5	18.8	14.1	28.2	42.4	58.8	61.2
87.5°	84.7	32.9	32.9	25.9	23.5	18.8	14.1	25.9	40.0	56.5	58.8
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)