

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: P191117

Luminaire Tested: **GLEON-AF-09-LED-E1-SL3-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191117
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-SL3-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 615mA 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: 30640.4 lumens
Efficiency: N/A
Efficacy: 105.7 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 - G4

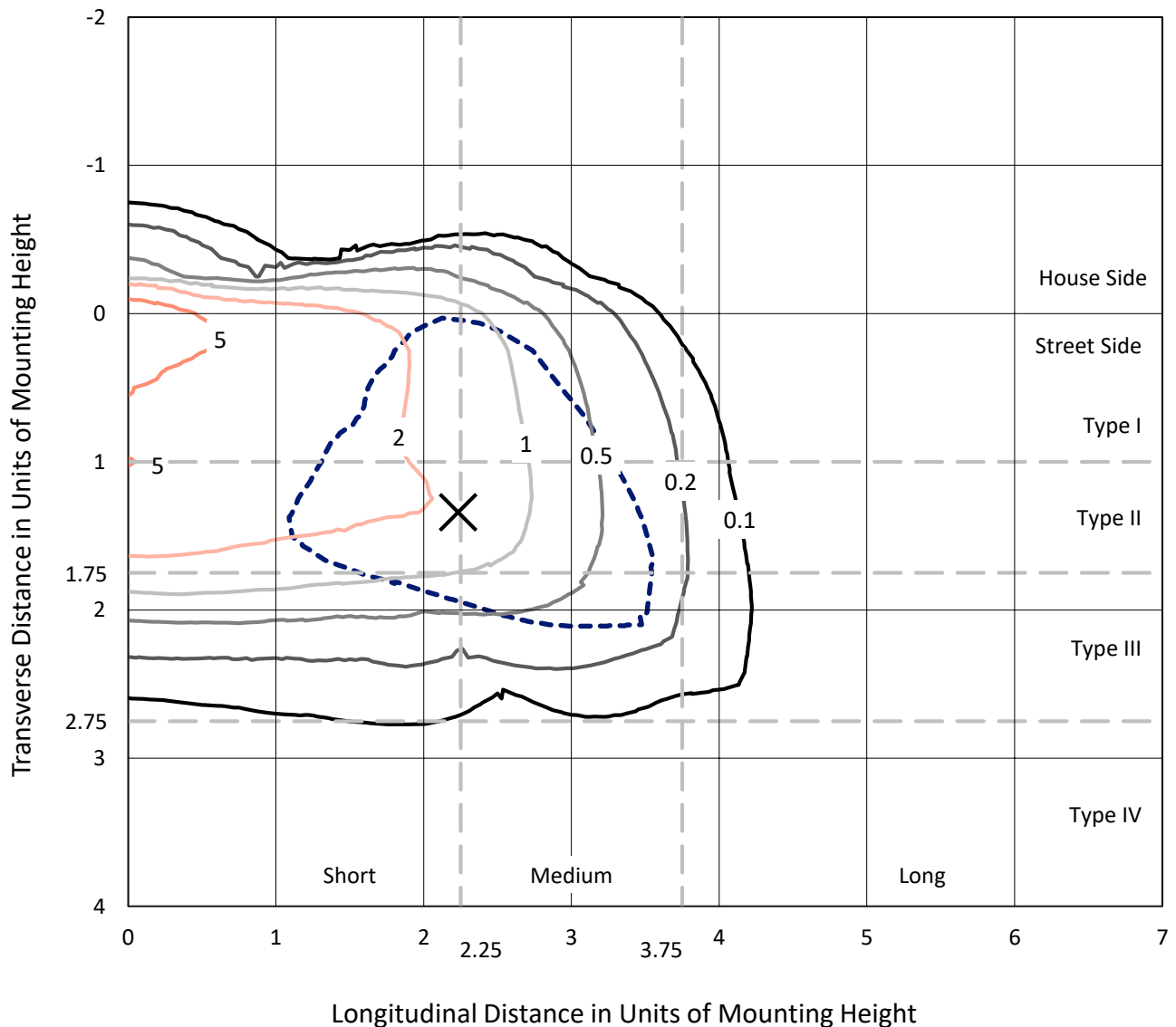
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

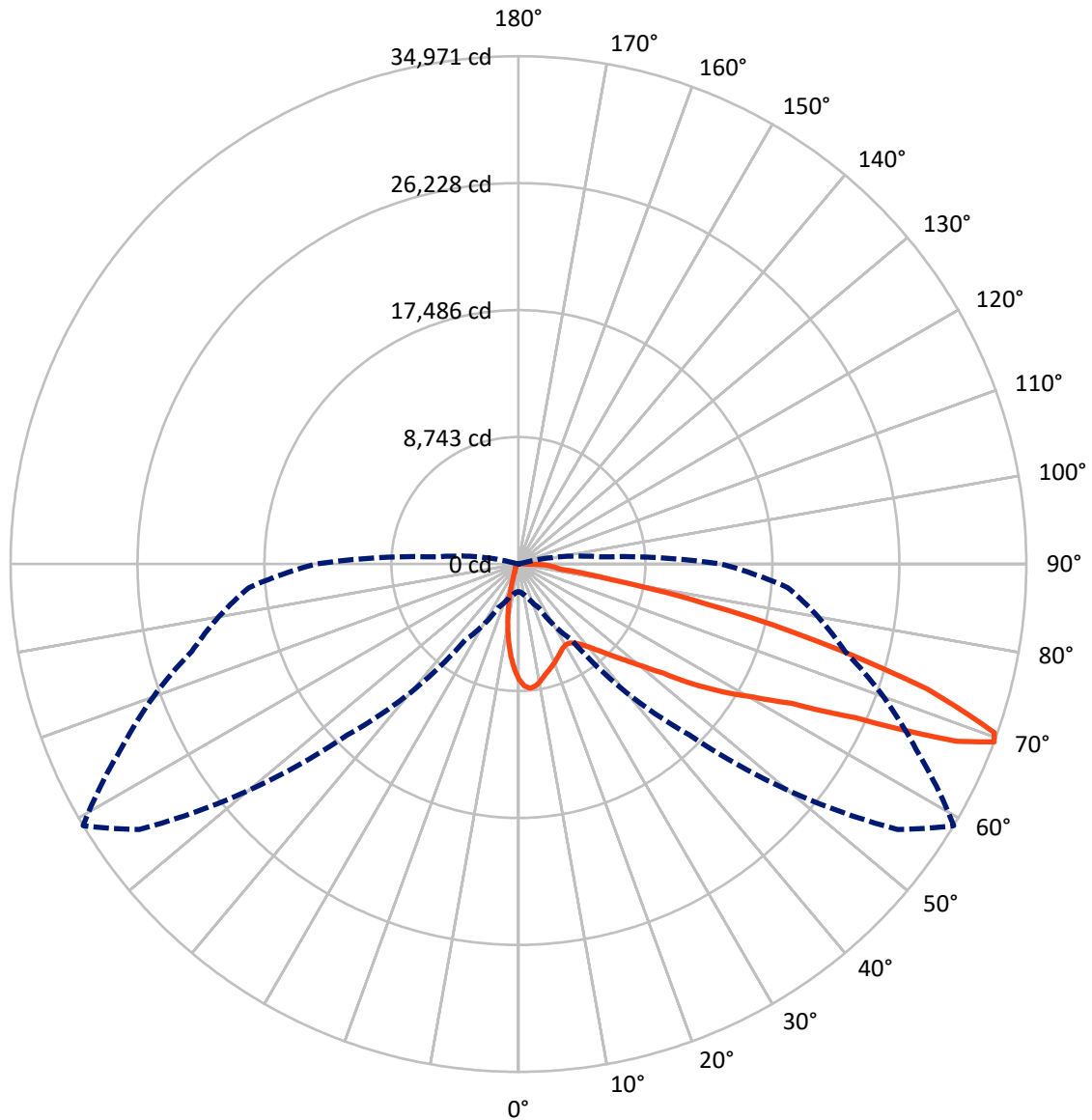


Based on 30 foot mounting height. Maximum calculated value = 8.9 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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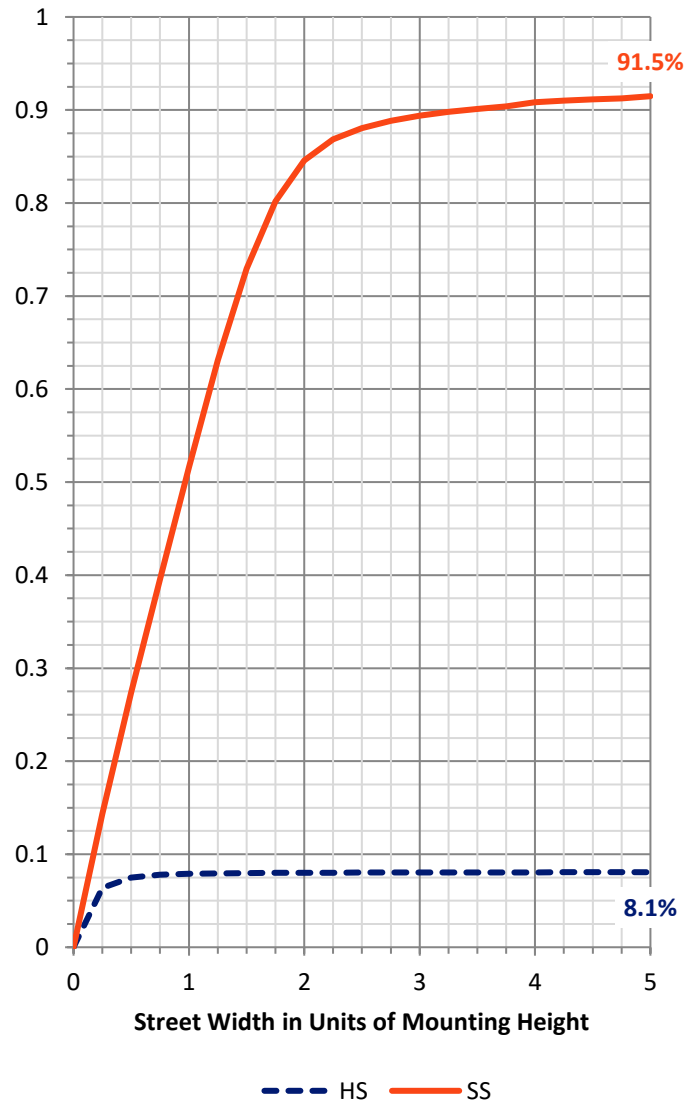
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2495.3	0.0	2495.3
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	28145.2	0.0	28145.2
	% Fixture	91.9	0.0	91.9
Total	Lumens	30640.4	0.0	30640.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	647.4	2.1
10°-20°	1337.6	4.4
20°-30°	1799.9	5.9
30°-40°	2613.4	8.5
40°-50°	4351.5	14.2
50°-60°	6788.3	22.2
60°-70°	8399.9	27.4
70°-80°	4257.0	13.9
80°-90°	445.4	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°	30640.4	100.0
0°-180°	30640.4	100.0

Coefficient of Utilization



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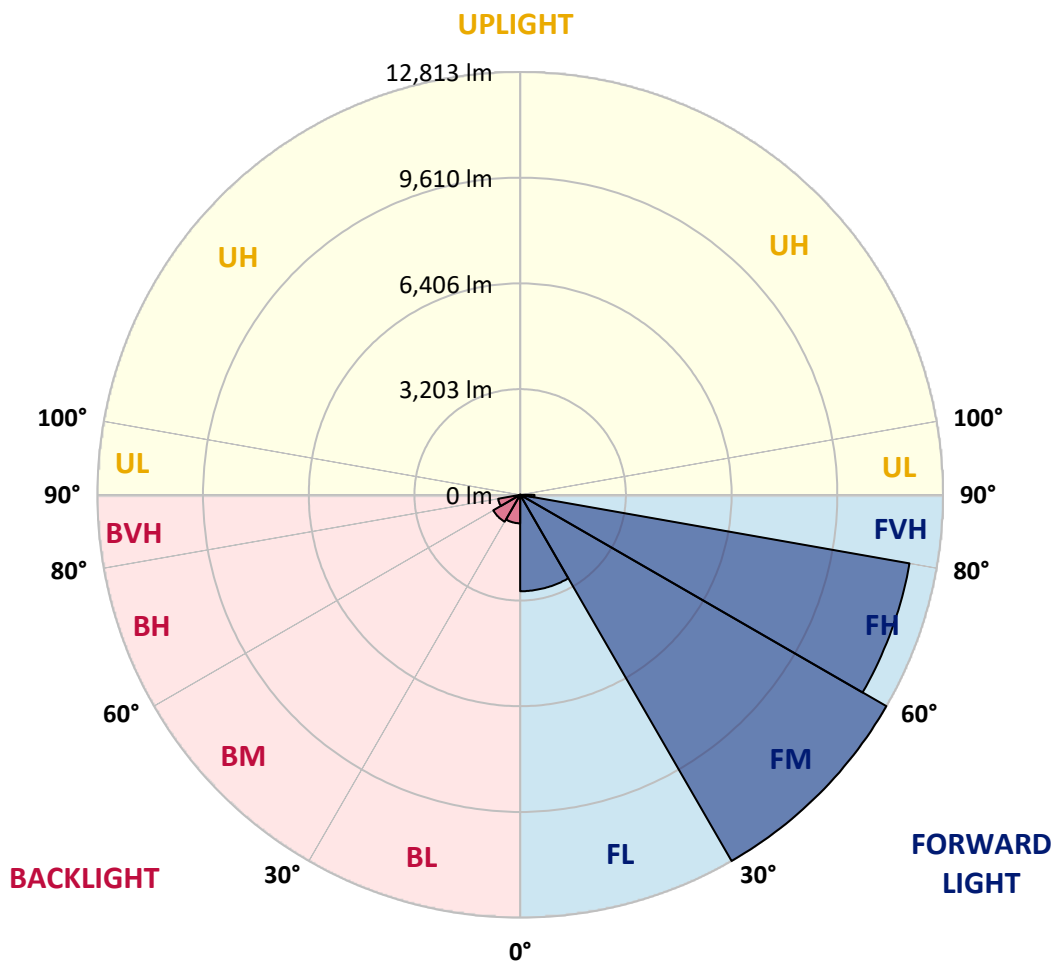
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2921.2	9.5			
FM	(30°-60°)	12812.9	41.8			
FH	(60°-80°)	11979.3	39.1			G4/12000
FVH	(80°-90°)	431.7	1.4			G3/500
BL	(0°-30°)	863.7	2.8	B2/1000		
BM	(30°-60°)	940.2	3.1	B1/1000		
BH	(60°-80°)	677.6	2.2	B2/1000		G2/1000
BVH	(80°-90°)	13.7	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°	7975.3	7975.3	7975.3	7975.3	7975.3	7975.3	7975.3	7975.3	7975.3	7975.3	7975.3
2.5°	8741.1	8737.6	8699.5	8682.2	8651.0	8585.2	8482.9	8429.2	8342.6	8191.9	7989.1
5°	8661.4	8703.0	8725.5	8727.2	8749.8	8725.5	8633.7	8588.6	8469.1	8226.5	7862.7
7.5°	8120.8	8136.4	8200.5	8255.9	8363.4	8465.6	8498.6	8479.4	8408.5	8148.5	7665.2
10°	7542.1	7557.8	7634.0	7706.7	7852.3	8009.9	8176.2	8210.9	8240.4	8037.6	7474.6
12.5°	7043.1	7058.8	7136.7	7232.0	7401.8	7595.8	7854.0	7911.2	8041.1	7932.0	7322.1
15°	6613.5	6620.3	6696.6	6814.4	7017.1	7266.6	7559.5	7651.3	7850.5	7857.5	7188.7
17.5°	6247.9	6265.2	6311.9	6424.5	6646.3	6954.7	7296.1	7427.7	7661.7	7795.1	7058.8
20°	6024.4	6041.6	6039.9	6102.3	6301.6	6630.8	7032.7	7190.4	7474.6	7731.0	6942.7
22.5°	5981.0	5981.0	5936.0	5927.3	6045.1	6320.6	6758.9	6951.3	7306.5	7703.2	6861.2
25°	6135.2	6128.3	6015.7	5923.8	5929.0	6093.6	6493.9	6722.6	7164.4	7722.4	6817.9
27.5°	6461.0	6452.3	6310.3	6135.2	5994.9	5993.2	6292.9	6538.9	7051.8	7812.4	6835.3
30°	6911.5	6908.0	6753.8	6533.7	6279.1	6045.1	6223.6	6447.1	6979.0	7975.3	6875.0
32.5°	7403.5	7398.3	7282.3	7050.1	6727.7	6279.1	6296.4	6483.5	6999.8	8191.9	6972.1
35°	7925.0	7916.4	7866.1	7663.4	7308.3	6710.5	6535.4	6681.0	7131.5	8515.9	7162.7
37.5°	8489.9	8498.6	8534.9	8340.8	7968.4	7315.1	6935.7	7034.4	7396.5	8955.9	7472.9
40°	9323.3	9321.5	9333.7	9079.0	8720.3	8055.0	7495.4	7526.6	7840.1	9539.8	7944.1
42.5°	10835.8	10730.1	10409.6	9889.9	9529.4	8900.5	8200.5	8167.6	8382.5	10262.3	8604.2
45°	12868.2	12643.0	11811.3	10815.0	10354.2	9853.5	9068.6	8962.9	9099.8	11130.4	9418.5
47.5°	14616.4	14382.6	13206.1	11778.4	11229.1	10757.9	10085.6	9895.0	9940.1	12102.4	10451.2
50°	15210.8	15096.4	14068.9	12617.0	12076.4	11896.2	11265.6	11033.3	10969.3	13226.9	11648.4
52.5°	15004.5	14995.8	14311.5	13161.1	12852.7	13074.4	12750.4	12481.8	12246.3	14411.9	12866.5
55°	14673.6	14717.0	14410.3	13637.5	13627.1	14150.4	14781.0	14557.5	13874.9	15699.3	13916.4
57.5°	13760.5	13945.9	14354.9	14538.5	14964.7	15500.1	16472.1	16603.7	15796.4	16685.2	14788.0
60°	11165.1	11572.2	12909.8	14668.4	16688.6	18022.8	18513.2	18625.8	17373.1	17504.7	15964.5
62.5°	7925.0	8340.8	10037.1	13012.0	16714.6	21337.3	21553.9	21112.1	19109.1	18719.3	17993.3
65°	4206.8	4527.4	5913.5	9392.5	14491.7	22106.6	26871.3	25554.5	22172.5	21108.6	20614.8
67.5°	2151.9	2249.0	2799.9	4596.6	9962.6	19635.8	31637.8	32564.7	27451.7	23478.9	20488.3
69°	1904.1	1961.3	2326.9	3323.2	6379.5	16631.4	31869.9	34971.3	30215.3	23281.3	18618.8
70°	1843.6	1893.8	2226.5	3007.9	4986.5	13947.6	30981.1	34760.0	30922.2	22529.4	17222.3
72.5°	1564.6	1607.9	1982.2	2657.8	4052.6	6923.5	25166.4	29454.6	27748.1	18767.8	12466.3
75°	1046.5	1188.6	1902.4	2491.5	3770.2	3933.0	16591.6	21285.4	19772.7	12658.6	6493.9
77.5°	251.2	270.3	537.2	1982.2	3448.0	3461.8	8533.1	13232.1	10792.5	4511.7	1535.1
80°	135.1	129.9	150.8	393.3	3210.5	3248.7	3841.3	6422.8	3853.4	748.5	506.0
82.5°	95.3	90.1	97.1	164.6	1010.2	2959.3	2779.2	2907.3	1597.4	287.7	227.0
85°	34.7	32.9	53.7	149.0	317.1	1701.5	2855.4	2398.0	1294.2	131.7	166.3
87.5°	12.2	10.4	20.8	81.4	97.1	724.2	1762.0	1812.4	509.4	79.7	77.9
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°	7975.3	7975.3	7975.3	7975.3	7975.3	7975.3	7975.3	7975.3	7975.3	7975.3	7975.3
2.5°	7904.2	7796.8	7599.3	7396.5	7209.5	6984.2	6871.6	6760.7	6713.9	6696.6	6615.2
5°	7675.5	7493.6	7074.3	6653.3	6265.2	5852.8	5580.8	5362.5	5234.2	5171.9	5073.1
7.5°	7382.7	7084.8	6448.9	5799.1	5194.4	4598.4	4156.6	3816.9	3583.1	3470.5	3368.3
10°	7098.6	6701.8	5797.4	4912.0	4090.8	3300.7	2690.8	2249.0	1966.5	1836.6	1753.4
12.5°	6843.8	6329.3	5168.5	4047.4	3016.5	2091.3	1471.0	1119.3	944.3	883.6	854.2
15°	6616.9	5986.2	4574.1	3226.2	2042.7	1195.5	803.9	684.4	656.6	656.6	653.2
17.5°	6402.0	5650.1	4000.7	2455.2	1282.2	731.2	611.6	596.1	596.1	602.9	602.9
20°	6195.9	5329.6	3446.2	1762.0	807.4	580.4	552.7	549.2	552.7	561.4	561.4
22.5°	6019.1	5038.4	2928.1	1209.3	599.4	523.2	509.4	504.2	506.0	511.2	514.5
25°	5887.5	4792.4	2439.5	819.5	516.3	476.5	460.8	452.2	445.3	445.3	448.8
27.5°	5804.3	4584.6	1966.5	596.1	464.3	433.1	408.9	395.1	379.4	370.8	374.3
30°	5743.7	4387.0	1523.0	486.8	415.8	384.6	353.4	330.9	308.4	298.0	301.5
32.5°	5721.2	4227.7	1138.3	429.7	372.6	337.9	299.7	270.3	246.0	237.3	239.1
35°	5781.8	4101.1	833.4	388.1	337.9	294.5	251.2	218.3	199.3	194.1	195.8
37.5°	5941.2	4033.6	623.8	353.4	306.7	258.2	209.6	178.5	166.3	166.3	168.1
40°	6242.7	4031.9	500.7	329.2	279.0	223.5	173.3	150.8	143.8	147.3	149.0
42.5°	6682.7	4123.6	436.6	306.7	254.7	190.6	143.8	128.2	126.4	129.9	131.7
45°	7283.9	4291.7	402.0	287.7	228.7	159.4	121.3	110.9	110.9	116.1	117.8
47.5°	8020.3	4537.7	372.6	268.5	202.7	133.4	103.9	97.1	98.7	103.9	105.7
50°	8907.4	4847.9	343.1	247.8	183.6	110.9	90.1	84.9	86.6	93.6	95.3
52.5°	9917.6	5265.4	318.9	228.7	159.4	91.9	76.2	72.7	76.2	83.2	84.9
55°	10783.8	5639.7	289.4	213.1	128.2	76.2	62.4	62.4	65.9	74.5	76.2
57.5°	11617.2	6031.3	263.4	183.6	100.5	60.7	52.0	53.7	58.9	67.6	69.4
60°	12840.5	6694.9	232.2	154.2	76.2	48.5	43.3	45.0	52.0	60.7	62.4
62.5°	14917.9	7705.0	201.0	128.2	58.9	38.2	34.7	38.2	46.7	57.2	58.9
65°	16792.7	8115.6	164.6	107.4	45.0	29.5	29.5	34.7	45.0	55.4	57.2
67.5°	15747.8	6831.8	128.2	84.9	34.7	22.5	24.2	32.9	43.3	55.4	57.2
69°	13926.9	5586.0	109.1	67.6	29.5	20.8	22.5	32.9	43.3	53.7	55.4
70°	12507.8	4716.2	97.1	57.2	26.0	20.8	22.5	31.2	43.3	53.7	55.4
72.5°	8377.3	2546.9	77.9	41.6	24.2	19.0	19.0	31.2	41.6	52.0	53.7
75°	3600.4	703.5	62.4	29.5	20.8	17.3	17.3	29.5	39.9	50.2	53.7
77.5°	658.4	178.5	50.2	26.0	20.8	17.3	15.5	27.7	38.2	48.5	50.2
80°	261.7	88.4	39.9	22.5	19.0	15.5	13.9	26.0	36.4	46.7	48.5
82.5°	157.6	50.2	32.9	20.8	19.0	13.9	12.2	22.5	34.7	45.0	46.7
85°	128.2	34.7	26.0	20.8	17.3	13.9	10.4	20.8	31.2	43.3	45.0
87.5°	62.4	24.2	24.2	19.0	17.3	13.9	10.4	19.0	29.5	41.6	43.3
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)