

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: P191194

Luminaire Tested: **GLEON-AF-06-LED-E1-SL4-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191194
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-SL4-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19474.9 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

Input Watts (W): 193
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

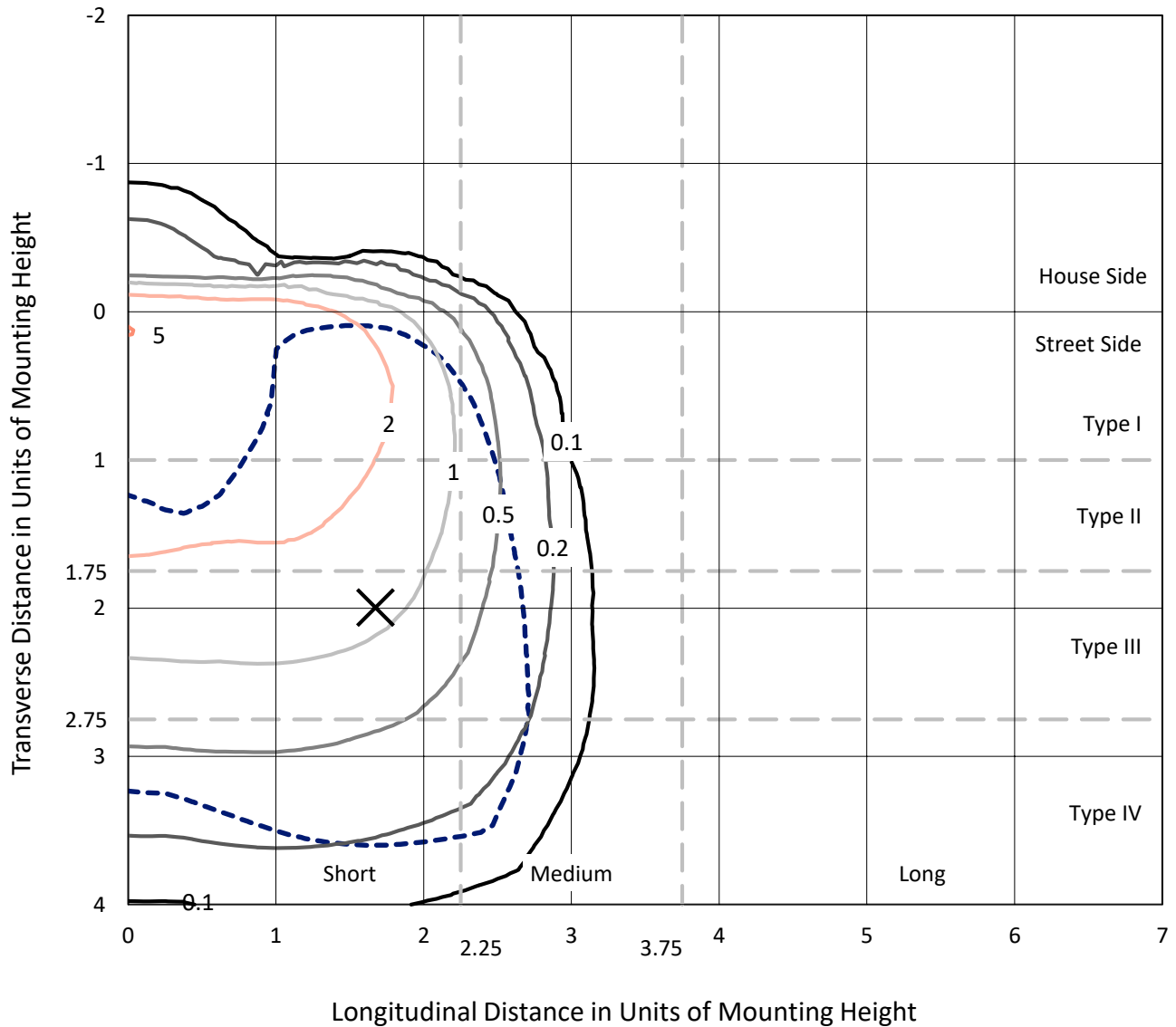


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Iso-Footcandle Lines of Horizontal Illumination

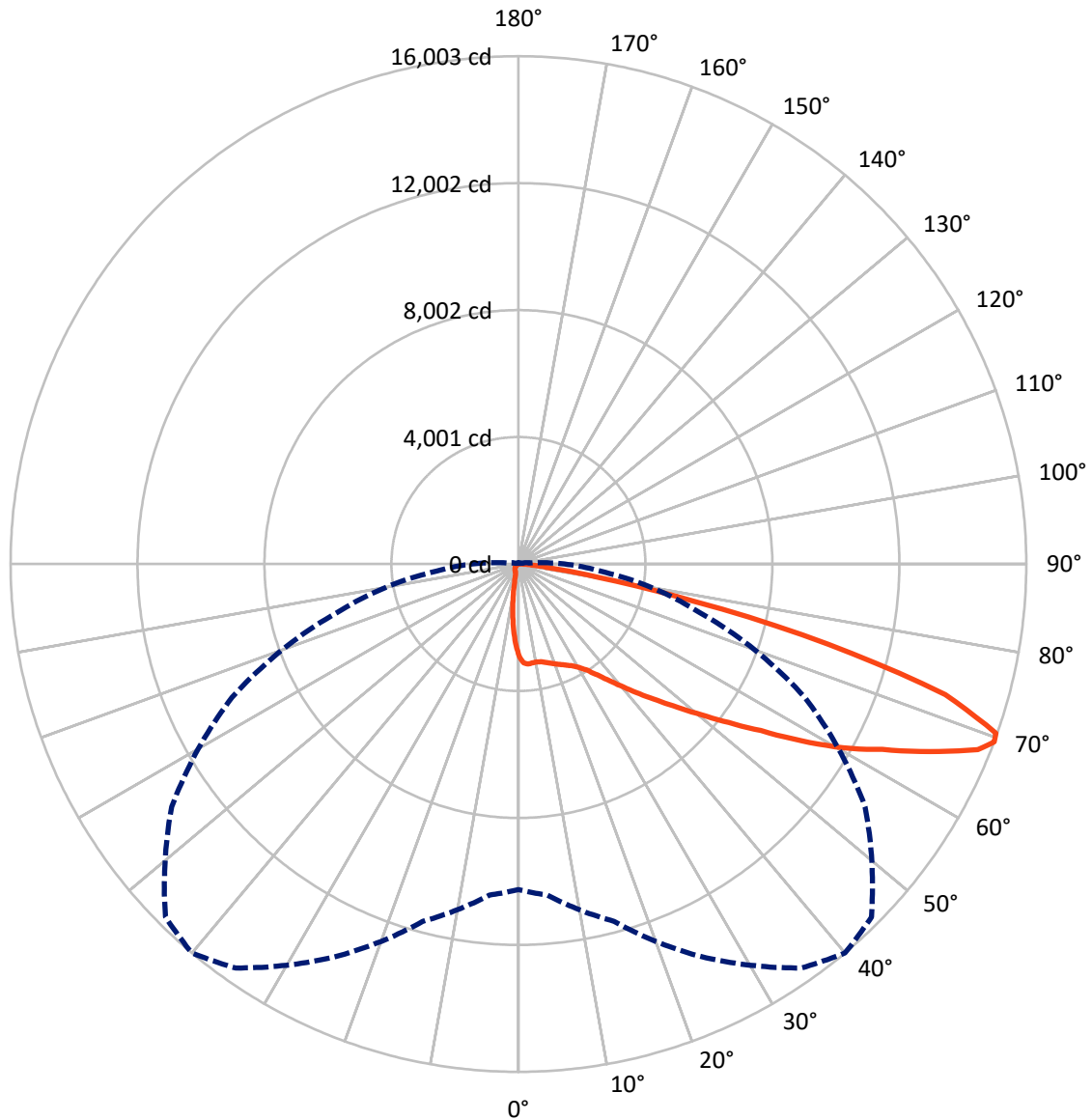
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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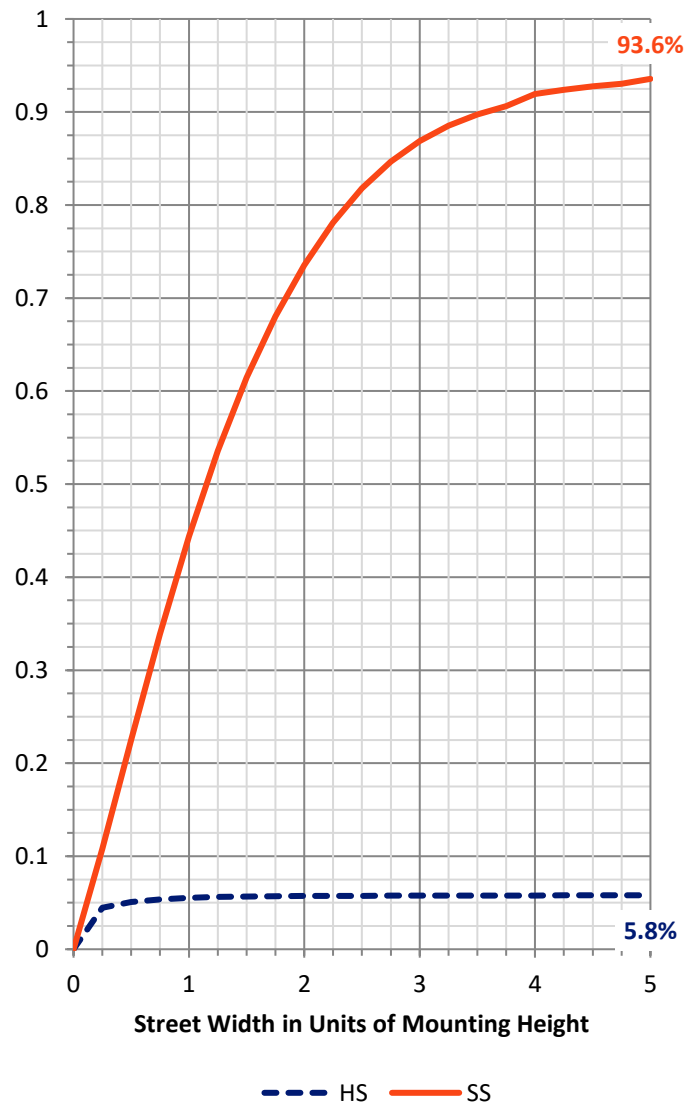
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1139.4	0.0	1139.4
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	18335.5	0.0	18335.5
	% Fixture	94.1	0.0	94.1
Total	Lumens	19474.9	0.0	19474.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.9	1.2
10°-20°	580.2	3.0
20°-30°	977.2	5.0
30°-40°	1599.7	8.2
40°-50°	2769.8	14.2
50°-60°	4362.7	22.4
60°-70°	5697.5	29.3
70°-80°	2934.5	15.1
80°-90°	317.4	1.6
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°	19474.9	100.0
0°-180°	19474.9	100.0

Coefficient of Utilization



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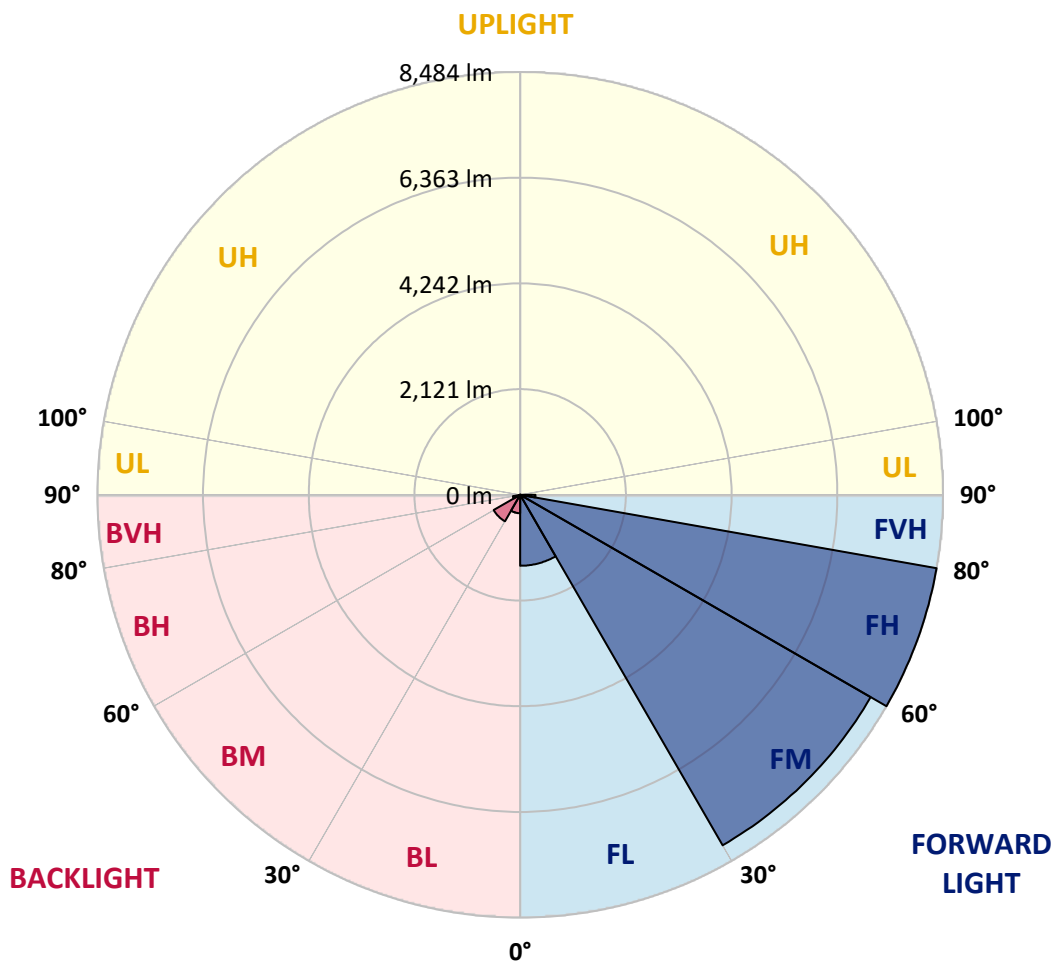
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1424.2	7.3			
FM	(30°-60°)	8119.8	41.7			
FH	(60°-80°)	8484.1	43.6			G4/12000
FVH	(80°-90°)	307.5	1.6			G3/500
BL	(0°-30°)	369.1	1.9	B1/500		
BM	(30°-60°)	612.4	3.1	B1/1000		
BH	(60°-80°)	147.9	0.8	B1/500		G1/500
BVH	(80°-90°)	10.0	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2909.7	2909.7	2909.7	2909.7	2909.7	2909.7	2909.7	2909.7	2909.7	2909.7	2909.7
2.5°	3194.8	3177.4	3167.0	3153.1	3135.8	3120.6	3114.9	3071.9	3031.4	2975.8	2911.9
5°	3253.9	3248.2	3229.6	3211.0	3190.2	3167.0	3154.3	3103.2	3045.3	2964.1	2852.8
7.5°	3259.7	3252.8	3229.6	3204.1	3175.1	3147.3	3125.3	3074.3	3021.0	2938.6	2803.0
10°	3250.4	3242.3	3225.0	3197.1	3161.2	3134.5	3112.5	3063.8	3018.6	2944.5	2793.8
12.5°	3240.0	3231.9	3223.8	3209.9	3178.6	3160.0	3141.5	3095.1	3054.5	2991.9	2827.3
15°	3250.4	3245.8	3255.1	3249.3	3231.9	3215.6	3197.1	3155.4	3118.4	3066.2	2888.8
17.5°	3294.5	3294.5	3323.5	3326.9	3310.8	3287.6	3260.9	3219.1	3187.8	3143.8	2961.9
20°	3397.7	3394.3	3431.3	3438.2	3398.9	3363.0	3323.5	3272.5	3248.2	3220.4	3033.7
22.5°	3575.0	3558.8	3580.8	3573.9	3496.2	3440.6	3391.9	3329.3	3316.5	3303.8	3113.7
25°	3805.8	3796.5	3811.5	3743.2	3606.3	3531.0	3473.0	3402.3	3402.3	3415.1	3204.1
27.5°	4140.8	4106.0	4055.0	3934.4	3729.3	3633.0	3570.4	3495.0	3514.8	3562.3	3323.5
30°	4483.9	4445.6	4328.5	4143.1	3878.7	3778.0	3704.9	3626.1	3672.4	3759.3	3483.5
32.5°	4822.4	4779.5	4613.7	4379.6	4093.2	3992.4	3921.7	3834.7	3912.4	4058.5	3717.6
35°	5150.5	5112.2	4920.9	4645.0	4378.4	4295.0	4230.0	4154.7	4254.4	4458.4	4048.0
37.5°	5519.0	5477.4	5244.4	4945.3	4725.0	4664.8	4617.2	4541.8	4715.7	5014.8	4508.2
40°	5972.3	5901.6	5587.5	5289.6	5126.1	5097.2	5064.6	5054.2	5324.4	5738.1	5121.5
42.5°	6491.6	6375.7	5946.8	5652.4	5566.6	5587.5	5579.4	5625.7	6085.9	6637.7	5868.0
45°	7011.0	6861.4	6346.8	6039.6	6051.2	6124.2	6169.4	6354.9	7039.9	7669.5	6671.4
47.5°	7451.5	7304.3	6730.5	6458.1	6597.1	6740.9	6863.8	7215.0	8020.7	8685.0	7296.2
50°	7828.2	7689.1	7137.3	6918.2	7231.2	7463.1	7662.5	8183.0	9075.6	9458.1	7734.3
52.5°	8136.7	8043.9	7559.3	7445.8	7955.8	8295.4	8587.6	9211.2	10009.9	10086.4	8075.2
55°	8436.9	8370.8	8012.6	8072.8	8806.7	9269.2	9639.0	10302.0	10814.4	10610.4	8402.1
57.5°	8782.3	8722.0	8529.6	8868.1	9925.3	10507.2	10910.6	11268.8	11522.7	11146.0	8710.4
60°	9134.7	9100.0	9104.6	9751.4	11209.7	11768.4	11991.0	12083.8	12218.2	11650.2	8727.8
62.5°	9470.9	9537.0	9761.8	10734.4	12439.7	12868.5	12981.0	13072.6	12915.0	11730.2	8063.6
65°	10040.1	10147.9	10684.6	12050.2	13792.4	14251.5	14367.4	14053.3	13025.0	10696.2	6558.9
67.5°	10318.3	10515.3	11472.9	13276.6	15104.7	15614.7	15571.9	14117.0	11688.4	8156.3	4209.1
69°	10260.3	10470.1	11654.9	13652.2	15540.6	16003.1	15730.7	13336.9	9957.7	5908.6	2583.9
70°	10030.7	10242.9	11561.0	13638.3	15596.2	15962.5	15436.2	12373.6	8419.5	4320.4	1616.0
72.5°	8376.5	8559.7	10263.8	12327.2	14367.4	14069.6	12913.7	8572.4	4102.5	1176.6	364.0
75°	5156.2	5258.3	7364.5	9286.6	10851.5	10086.4	8603.7	4264.8	1222.9	332.7	201.7
77.5°	2724.2	2770.6	4031.8	5473.9	6878.8	5691.8	4409.7	1663.5	563.3	208.7	146.1
80°	1610.1	1644.9	2171.2	2502.8	2976.9	2486.6	1763.2	1021.3	403.5	131.0	129.8
82.5°	921.6	943.6	1574.2	1391.1	1173.1	1001.6	877.5	967.9	242.2	88.1	134.5
85°	338.5	343.1	885.7	1058.3	697.9	415.0	435.9	802.2	65.0	55.6	105.5
87.5°	157.6	154.2	455.6	648.0	408.1	263.1	339.6	176.2	25.5	35.9	28.9
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°	2909.7	2909.7	2909.7	2909.7	2909.7	2909.7	2909.7	2909.7	2909.7	2909.7	2909.7
2.5°	2874.9	2831.9	2754.3	2674.3	2593.2	2530.6	2469.2	2420.5	2404.2	2374.1	2376.4
5°	2786.8	2708.0	2545.6	2381.0	2209.5	2068.1	1934.7	1827.0	1774.8	1721.4	1721.4
7.5°	2710.3	2595.5	2341.6	2073.8	1796.8	1563.8	1354.0	1196.3	1109.4	1039.8	1038.7
10°	2681.3	2526.0	2171.2	1787.5	1401.5	1083.9	834.6	674.6	592.4	539.0	536.7
12.5°	2694.0	2501.6	2040.3	1523.2	1038.7	696.7	483.4	380.2	345.5	329.2	329.2
15°	2731.2	2494.7	1909.2	1264.7	733.8	435.9	321.1	293.3	290.9	290.9	290.9
17.5°	2776.4	2496.9	1774.8	1013.1	499.6	311.8	277.0	273.5	275.9	275.9	275.9
20°	2822.7	2498.1	1629.9	780.2	352.4	271.3	260.9	259.6	262.0	262.0	263.1
22.5°	2879.5	2503.9	1485.0	583.1	290.9	256.1	248.1	248.1	249.2	249.2	248.1
25°	2944.5	2515.5	1334.2	432.4	265.5	245.7	238.8	237.6	238.8	237.6	236.5
27.5°	3025.6	2531.7	1166.2	338.5	253.9	235.3	229.6	229.6	228.3	227.2	226.1
30°	3127.6	2550.3	977.2	287.4	242.2	226.1	220.2	219.1	217.9	215.6	215.6
32.5°	3283.0	2590.8	790.6	260.9	229.6	213.3	208.7	208.7	206.3	204.0	202.9
35°	3521.7	2670.8	623.7	244.6	215.6	199.4	193.5	193.5	191.3	190.1	188.9
37.5°	3852.1	2792.6	484.6	229.6	201.7	184.3	178.5	177.4	175.0	172.7	171.5
40°	4291.5	2943.2	381.4	215.6	187.8	169.2	164.6	162.3	157.6	154.2	154.2
42.5°	4843.3	3114.9	309.5	200.5	171.5	155.4	151.9	148.4	140.2	136.8	135.6
45°	5420.5	3269.0	262.0	183.1	155.4	141.5	139.1	133.3	122.9	119.4	119.4
47.5°	5836.7	3304.9	230.7	166.9	140.2	126.3	125.2	114.8	105.5	103.2	102.0
50°	6096.4	3234.3	205.2	150.7	126.3	112.4	108.9	96.3	90.4	88.1	87.0
52.5°	6271.4	3107.9	184.3	136.8	113.6	99.7	91.6	82.3	77.6	75.4	75.4
55°	6411.7	2929.3	163.5	124.1	103.2	89.3	77.6	70.7	66.1	63.7	63.7
57.5°	6451.1	2687.1	142.6	113.6	92.8	78.9	66.1	61.5	55.6	54.5	54.5
60°	6164.7	2250.1	126.3	100.9	83.5	68.4	58.0	52.2	46.3	45.2	44.1
62.5°	5410.1	1741.2	111.3	89.3	73.0	59.1	49.8	42.9	38.3	38.3	38.3
65°	4126.9	1167.3	97.4	77.6	63.7	49.8	42.9	34.8	32.4	32.4	33.7
67.5°	2470.3	635.3	83.5	66.1	54.5	41.7	35.9	30.2	28.9	30.2	30.2
69°	1447.9	373.3	75.4	59.1	47.6	37.1	31.3	26.7	28.9	30.2	30.2
70°	893.8	251.5	69.6	53.3	42.9	33.7	28.9	25.5	27.8	28.9	28.9
72.5°	249.2	129.8	55.6	41.7	34.8	27.8	23.2	23.2	26.7	27.8	27.8
75°	162.3	96.3	42.9	31.3	26.7	22.0	19.7	22.0	25.5	26.7	26.7
77.5°	134.5	78.9	34.8	25.5	22.0	20.9	18.5	19.7	23.2	24.3	24.3
80°	122.9	55.6	27.8	23.2	19.7	18.5	17.4	16.3	20.9	22.0	22.0
82.5°	117.1	44.1	24.3	20.9	18.5	16.3	15.0	16.3	18.5	19.7	20.9
85°	73.0	28.9	22.0	19.7	16.3	15.0	15.0	15.0	17.4	18.5	18.5
87.5°	26.7	23.2	19.7	16.3	13.9	13.9	13.9	13.9	15.0	17.4	17.4
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)