

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: P269325

Luminaire Tested: **GLEON-AF-05-LED-E1-SL4-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269325
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-05-LED-E1-SL4-7027-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA 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: 16948.2 lumens
Efficiency: N/A
Efficacy: 80.7 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 - G3

Input Watts (W): 210
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

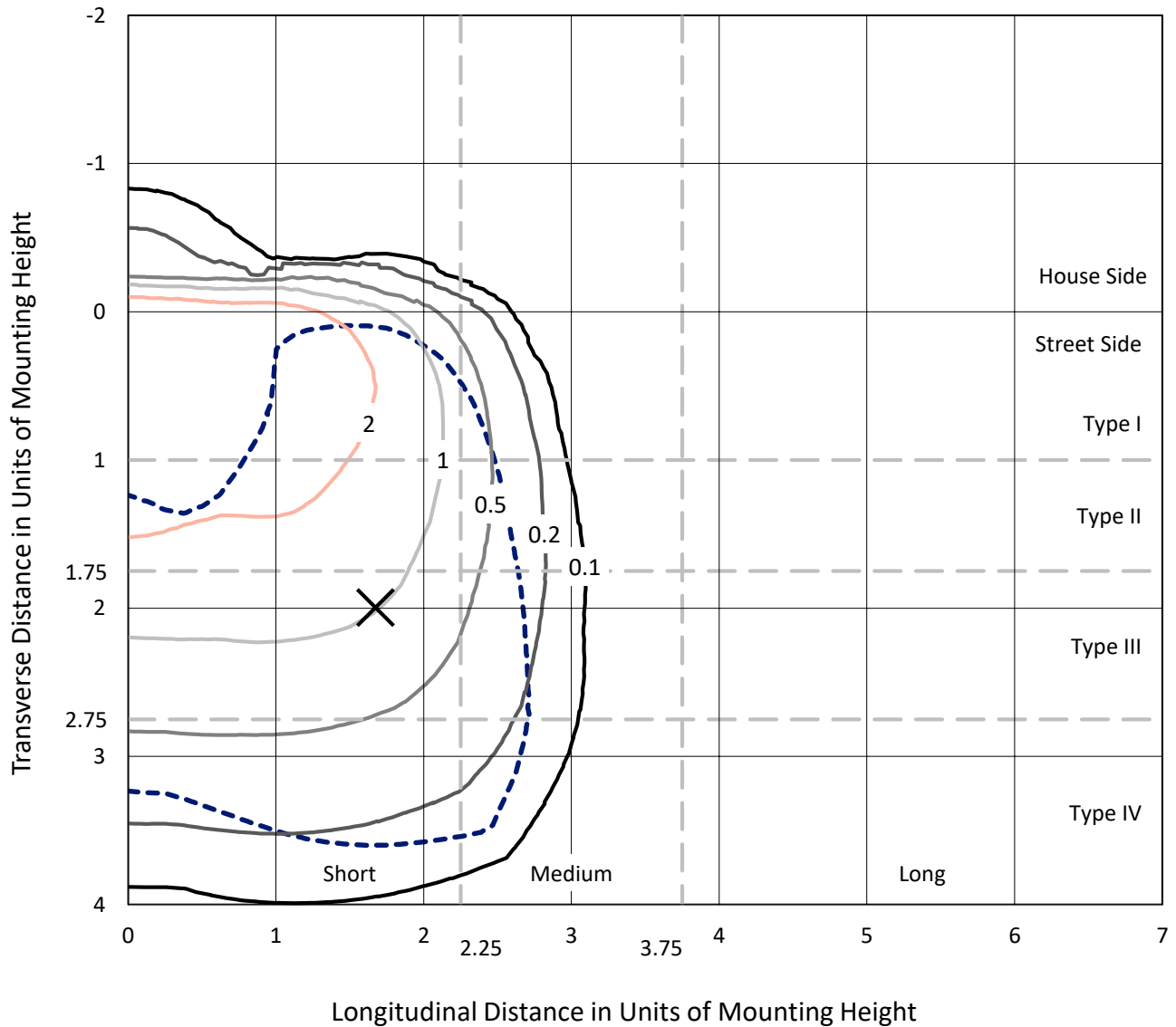


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

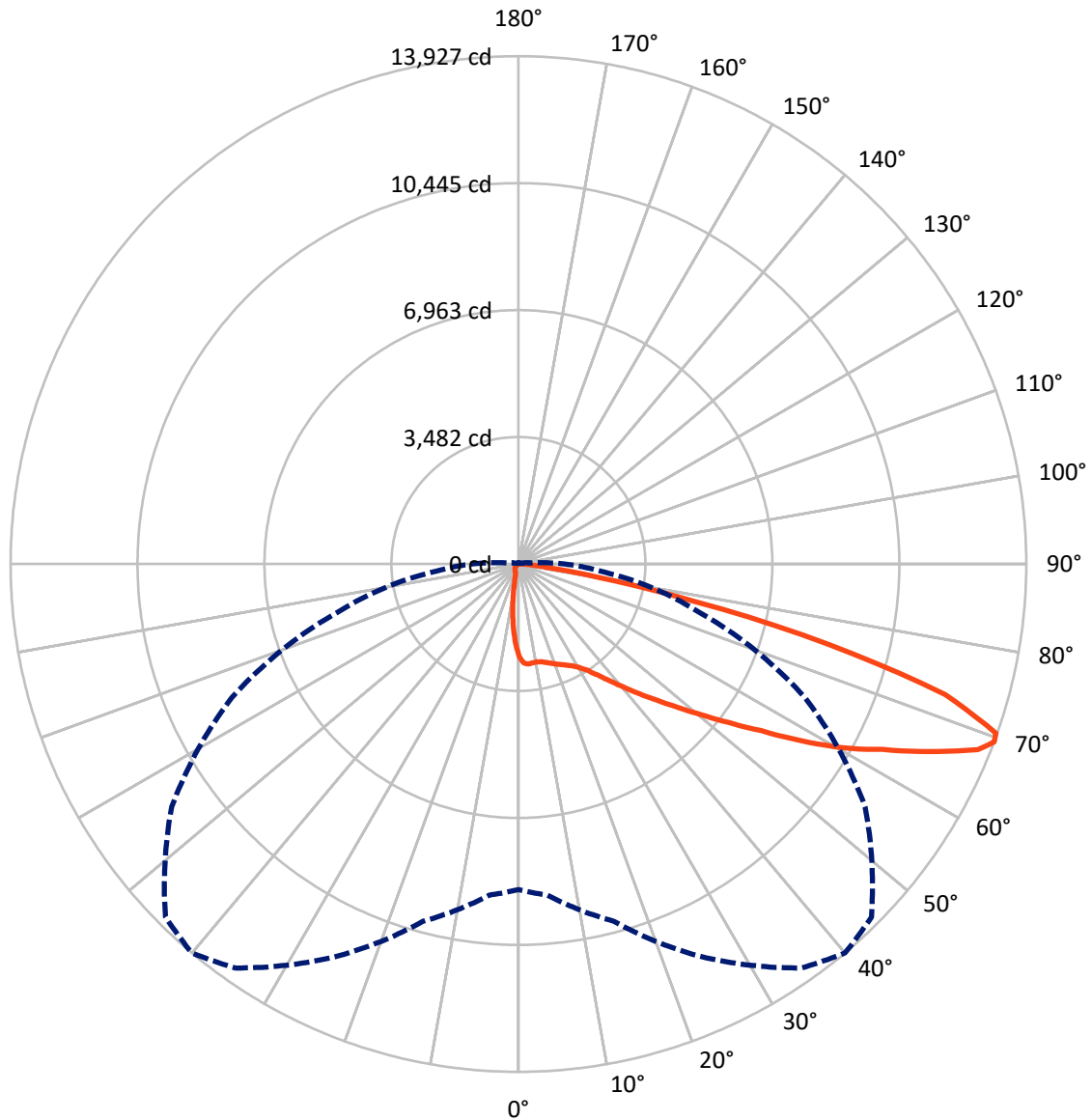


Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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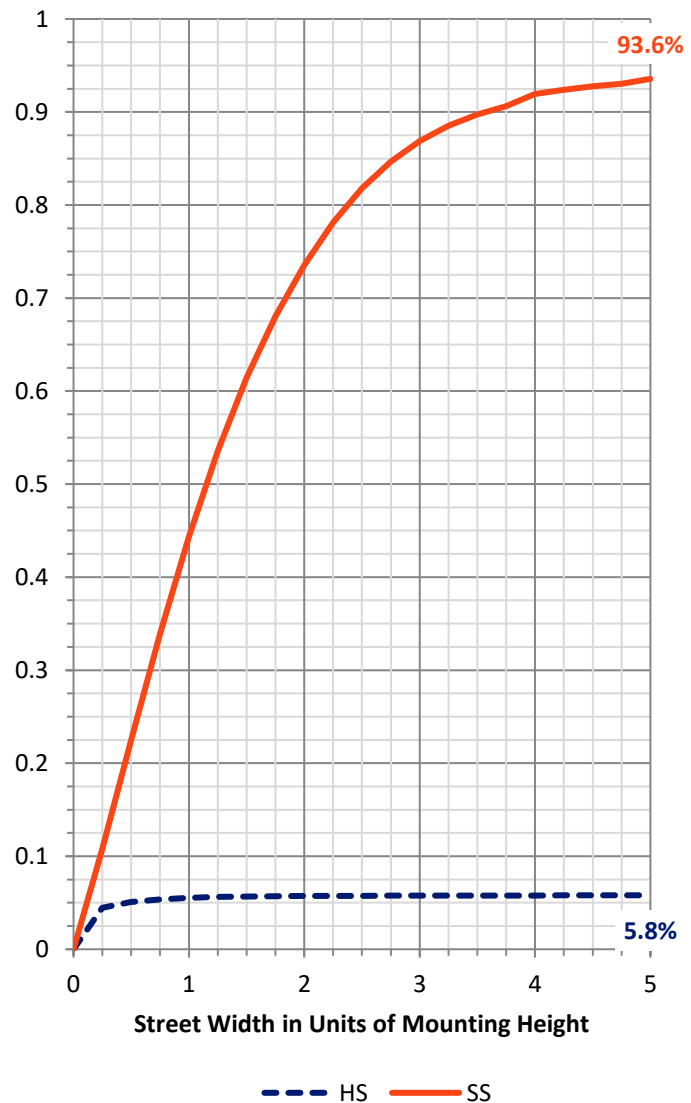
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	991.6	0.0	991.6
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	15956.7	0.0	15956.7
	% Fixture	94.1	0.0	94.1
Total	Lumens	16948.2	0.0	16948.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.3	1.2
10°-20°	504.9	3.0
20°-30°	850.4	5.0
30°-40°	1392.1	8.2
40°-50°	2410.4	14.2
50°-60°	3796.7	22.4
60°-70°	4958.3	29.3
70°-80°	2553.8	15.1
80°-90°	276.2	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°	16948.2	100.0
0°-180°	16948.2	100.0



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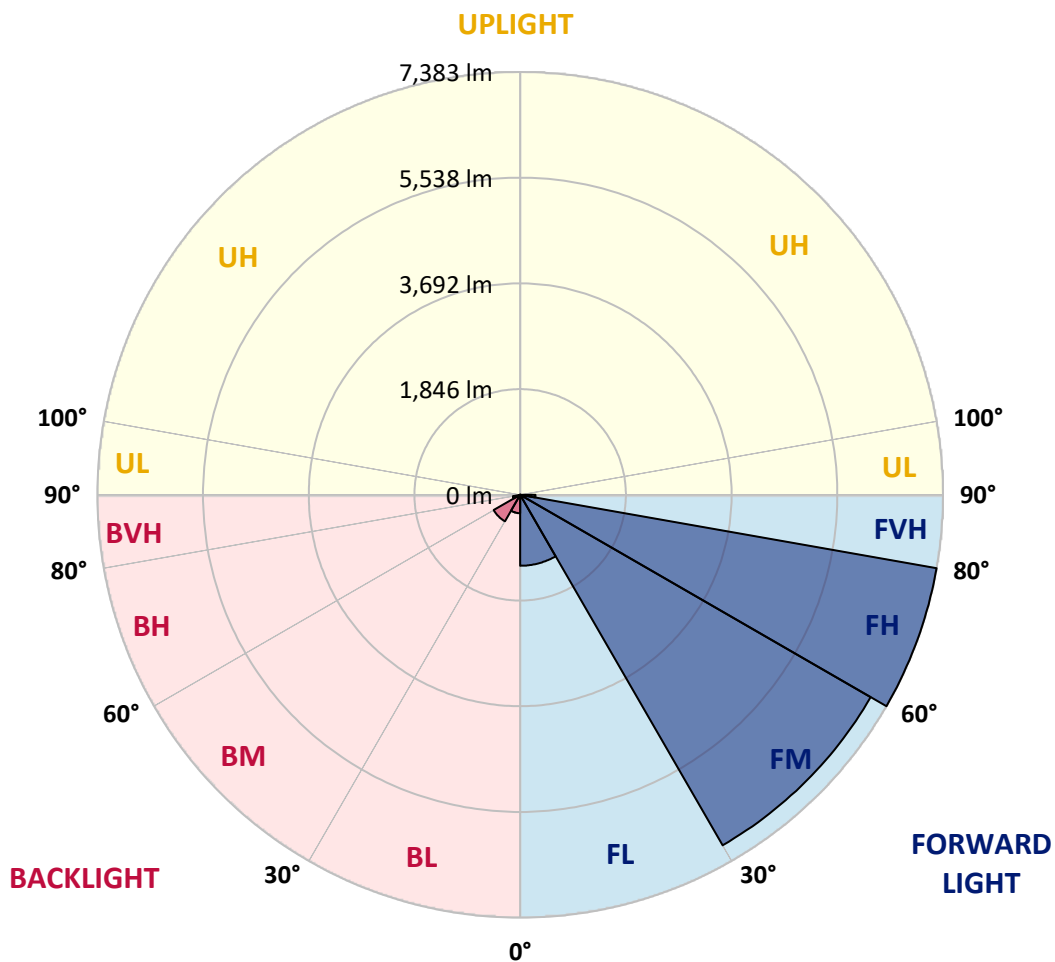
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1239.4	7.3			
FM	(30°-60°)	7066.3	41.7			
FH	(60°-80°)	7383.3	43.6			G3/7500
FVH	(80°-90°)	267.6	1.6			G3/500
BL	(0°-30°)	321.2	1.9	B1/500		
BM	(30°-60°)	532.9	3.1	B1/1000		
BH	(60°-80°)	128.7	0.8	B1/500		G1/500
BVH	(80°-90°)	8.7	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	2532.1	2532.1	2532.1	2532.1	2532.1	2532.1	2532.1	2532.1	2532.1	2532.1	2532.1
2.5°	2780.3	2765.3	2756.1	2744.1	2729.0	2715.8	2710.7	2673.4	2638.1	2589.6	2534.2
5°	2831.7	2826.7	2810.5	2794.4	2776.3	2756.1	2745.0	2700.7	2650.2	2579.6	2482.7
7.5°	2836.8	2830.7	2810.5	2788.3	2763.1	2738.9	2719.8	2675.4	2629.0	2557.4	2439.3
10°	2828.8	2821.7	2806.6	2782.3	2751.1	2727.9	2708.7	2666.3	2627.0	2562.4	2431.3
12.5°	2819.7	2812.7	2805.5	2793.4	2766.2	2750.0	2733.9	2693.6	2658.3	2603.7	2460.5
15°	2828.8	2824.7	2832.7	2827.8	2812.7	2798.5	2782.3	2745.9	2713.7	2668.3	2513.9
17.5°	2867.1	2867.1	2892.4	2895.3	2881.3	2861.0	2837.8	2801.5	2774.2	2736.0	2577.5
20°	2957.0	2953.8	2986.1	2992.2	2957.8	2926.6	2892.4	2847.8	2826.7	2802.5	2640.1
22.5°	3111.2	3097.0	3116.3	3110.2	3042.6	2994.2	2951.8	2897.4	2886.3	2875.1	2709.6
25°	3312.1	3303.8	3317.0	3257.6	3138.5	3072.9	3022.4	2961.0	2961.0	2972.0	2788.3
27.5°	3603.6	3573.3	3528.9	3424.0	3245.3	3161.7	3107.1	3041.7	3058.8	3100.1	2892.4
30°	3902.1	3868.8	3767.0	3605.5	3375.6	3287.7	3224.1	3155.6	3196.0	3271.5	3031.5
32.5°	4196.7	4159.4	4015.2	3811.4	3562.1	3474.4	3412.8	3337.3	3404.8	3531.9	3235.2
35°	4482.3	4448.9	4282.5	4042.4	3810.3	3737.7	3681.3	3615.6	3702.4	3879.9	3522.9
37.5°	4803.0	4766.6	4563.8	4303.6	4112.0	4059.5	4018.2	3952.6	4103.8	4364.1	3923.3
40°	5197.5	5135.9	4862.5	4603.3	4461.1	4435.8	4407.5	4398.6	4633.5	4993.7	4457.0
42.5°	5649.4	5548.6	5175.2	4918.9	4844.4	4862.5	4855.5	4895.9	5296.3	5776.6	5106.7
45°	6101.4	5971.3	5523.3	5256.0	5266.0	5329.6	5369.0	5530.3	6126.6	6674.3	5805.7
47.5°	6484.8	6356.5	5857.3	5620.2	5741.2	5866.3	5973.3	6279.0	6980.1	7558.1	6349.5
50°	6812.6	6691.6	6211.3	6020.7	6293.0	6494.8	6668.4	7121.4	7898.1	8231.0	6730.9
52.5°	7080.9	7000.2	6578.6	6479.7	6923.5	7219.1	7473.4	8016.1	8711.3	8777.8	7027.5
55°	7342.2	7284.7	6973.1	7025.5	7664.1	8066.6	8388.5	8965.4	9411.4	9233.8	7311.9
57.5°	7642.9	7590.4	7423.0	7717.5	8637.6	9143.9	9495.1	9806.7	10027.7	9699.9	7580.3
60°	7949.6	7919.3	7923.3	8486.3	9755.4	10241.5	10435.3	10516.0	10633.0	10138.7	7595.4
62.5°	8242.0	8299.6	8495.4	9341.7	10825.7	11199.0	11296.8	11376.6	11239.4	10208.2	7017.4
65°	8737.5	8831.2	9298.4	10486.8	12003.1	12402.4	12503.4	12230.0	11335.2	9308.4	5707.9
67.5°	8979.5	9151.0	9984.3	11554.1	13145.0	13588.9	13551.6	12285.5	10172.0	7098.0	3663.1
69°	8929.2	9111.7	10142.8	11881.0	13524.3	13926.9	13689.8	11606.6	8665.8	5142.0	2248.6
70°	8729.4	8914.1	10060.9	11868.9	13572.8	13891.5	13433.6	10768.3	7327.0	3759.9	1406.2
72.5°	7289.7	7449.1	8932.1	10727.9	12503.4	12244.1	11238.3	7460.2	3570.3	1024.0	316.7
75°	4487.3	4576.1	6409.0	8081.7	9443.6	8777.8	7487.6	3711.4	1064.3	289.6	175.4
77.5°	2370.7	2411.1	3508.7	4763.7	5986.3	4953.3	3837.6	1447.7	490.3	181.5	127.1
80°	1401.3	1431.4	1889.6	2178.0	2590.6	2163.9	1534.5	888.8	351.1	113.9	112.9
82.5°	801.9	821.2	1369.9	1210.6	1021.0	871.6	763.6	842.4	210.8	76.6	117.0
85°	294.6	298.5	770.7	921.0	607.3	361.2	379.4	698.2	56.6	48.4	91.7
87.5°	137.3	134.1	396.4	564.0	355.1	229.0	295.6	153.3	22.2	31.4	25.2
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°	2532.1	2532.1	2532.1	2532.1	2532.1	2532.1	2532.1	2532.1	2532.1	2532.1	2532.1
2.5°	2501.9	2464.6	2396.9	2327.4	2256.7	2202.3	2148.7	2106.4	2092.3	2066.1	2068.1
5°	2425.2	2356.7	2215.4	2072.1	1922.8	1799.8	1683.8	1589.9	1544.5	1498.2	1498.2
7.5°	2358.6	2258.8	2037.8	1804.8	1563.7	1360.9	1178.2	1041.1	965.5	905.0	904.0
10°	2333.3	2198.2	1889.6	1555.7	1219.7	943.2	726.4	587.1	515.4	469.2	467.1
12.5°	2344.4	2177.0	1775.5	1325.5	904.0	606.3	420.6	330.8	300.7	286.5	286.5
15°	2376.7	2171.1	1661.5	1100.7	638.5	379.4	279.5	255.2	253.2	253.2	253.2
17.5°	2416.1	2173.0	1544.5	881.6	434.8	271.4	241.1	238.1	240.0	240.0	240.0
20°	2456.4	2174.0	1418.5	678.8	306.7	236.1	227.0	226.0	228.0	228.0	229.0
22.5°	2505.9	2179.1	1292.3	507.5	253.2	223.0	216.0	216.0	216.9	216.9	216.0
25°	2562.4	2189.2	1161.1	376.3	231.0	213.8	207.8	206.8	207.8	206.8	205.8
27.5°	2633.0	2203.3	1014.8	294.6	221.0	204.9	199.8	199.8	198.7	197.7	196.6
30°	2721.9	2219.4	850.4	250.2	210.8	196.6	191.7	190.7	189.6	187.7	187.7
32.5°	2857.0	2254.7	688.0	227.0	199.8	185.6	181.5	181.5	179.7	177.5	176.5
35°	3064.7	2324.4	542.8	212.9	187.7	173.6	168.5	168.5	166.5	165.5	164.4
37.5°	3352.4	2430.3	421.7	199.8	175.4	160.3	155.3	154.4	152.4	150.3	149.3
40°	3734.7	2561.3	332.0	187.7	163.4	147.3	143.3	141.3	137.3	134.1	134.1
42.5°	4214.8	2710.7	269.3	174.5	149.3	135.1	132.1	129.1	122.1	119.0	118.0
45°	4717.3	2844.9	228.0	159.4	135.1	123.1	121.0	116.1	107.0	103.9	103.9
47.5°	5079.5	2876.2	200.7	145.3	122.1	110.0	109.0	99.9	91.7	89.8	88.8
50°	5305.4	2814.6	178.6	131.2	110.0	97.8	94.9	83.7	78.7	76.6	75.6
52.5°	5457.7	2704.6	160.3	119.0	98.9	86.7	79.7	71.7	67.6	65.5	65.5
55°	5579.8	2549.3	142.2	107.9	89.8	77.7	67.6	61.5	57.5	55.4	55.4
57.5°	5614.0	2338.5	124.1	98.9	80.7	68.6	57.5	53.4	48.4	47.4	47.4
60°	5364.9	1958.1	110.0	87.8	72.7	59.5	50.5	45.5	40.3	39.3	38.4
62.5°	4708.1	1515.3	96.8	77.7	63.6	51.5	43.4	37.3	33.2	33.2	33.2
65°	3591.5	1016.0	84.7	67.6	55.4	43.4	37.3	30.3	28.2	28.2	29.3
67.5°	2149.9	552.8	72.7	57.5	47.4	36.3	31.4	26.2	25.2	26.2	26.2
69°	1260.1	324.8	65.5	51.5	41.3	32.2	27.3	23.1	25.2	26.2	26.2
70°	777.8	218.8	60.5	46.4	37.3	29.3	25.2	22.2	24.3	25.2	25.2
72.5°	216.9	112.9	48.4	36.3	30.3	24.3	20.2	20.2	23.1	24.3	24.3
75°	141.3	83.7	37.3	27.3	23.1	19.1	17.2	19.1	22.2	23.1	23.1
77.5°	117.0	68.6	30.3	22.2	19.1	18.1	16.1	17.2	20.2	21.2	21.2
80°	107.0	48.4	24.3	20.2	17.2	16.1	15.1	14.2	18.1	19.1	19.1
82.5°	101.9	38.4	21.2	18.1	16.1	14.2	13.1	14.2	16.1	17.2	18.1
85°	63.6	25.2	19.1	17.2	14.2	13.1	13.1	13.1	15.1	16.1	16.1
87.5°	23.1	20.2	17.2	14.2	12.0	12.0	12.0	12.0	13.1	15.1	15.1
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)