

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: P193735

Luminaire Tested: **GLEON-AF-07-LED-E1-SL4-8030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193735
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-07-LED-E1-SL4-8030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 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: 18371 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G4

Input Watts (W): 226
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

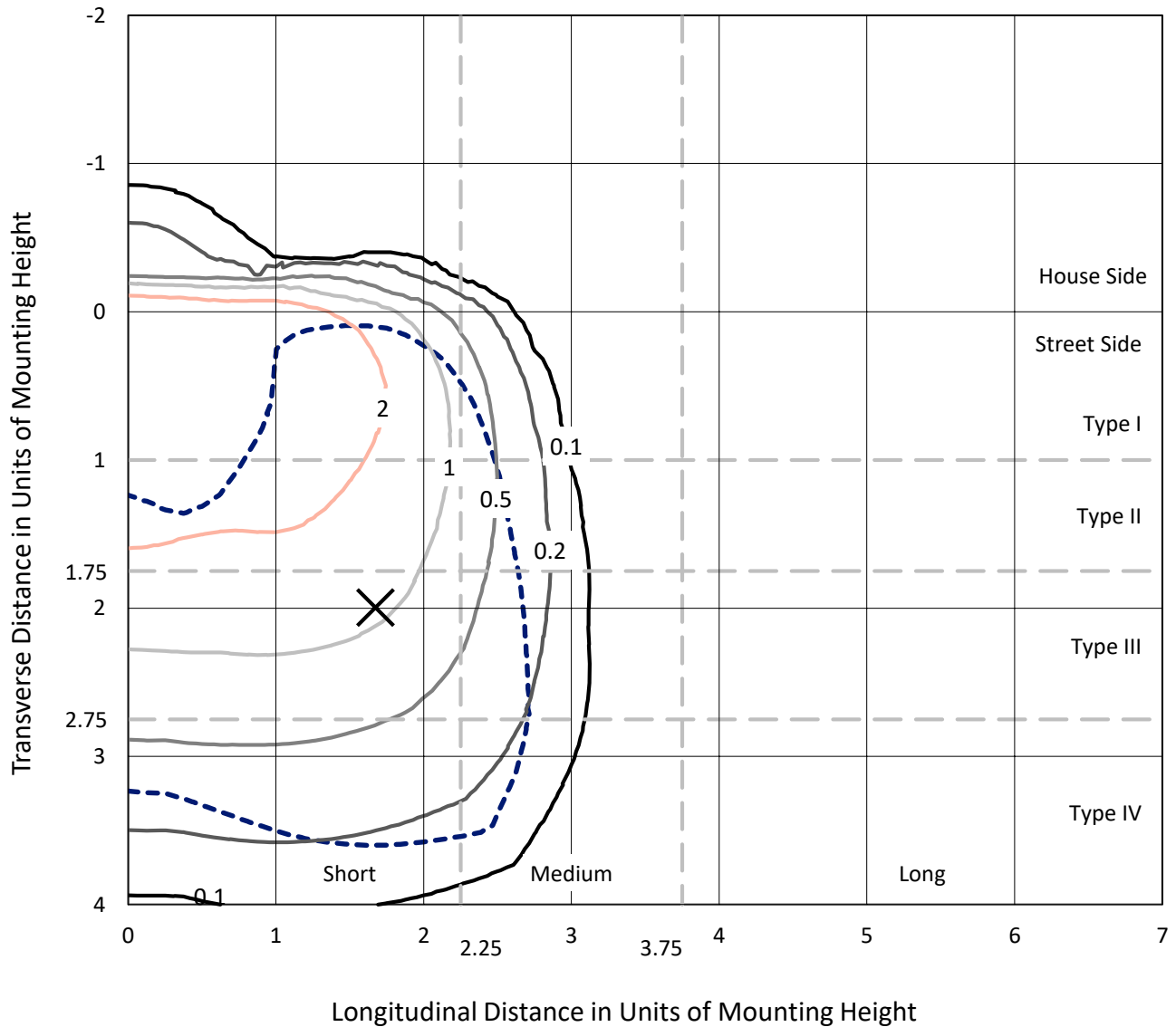


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

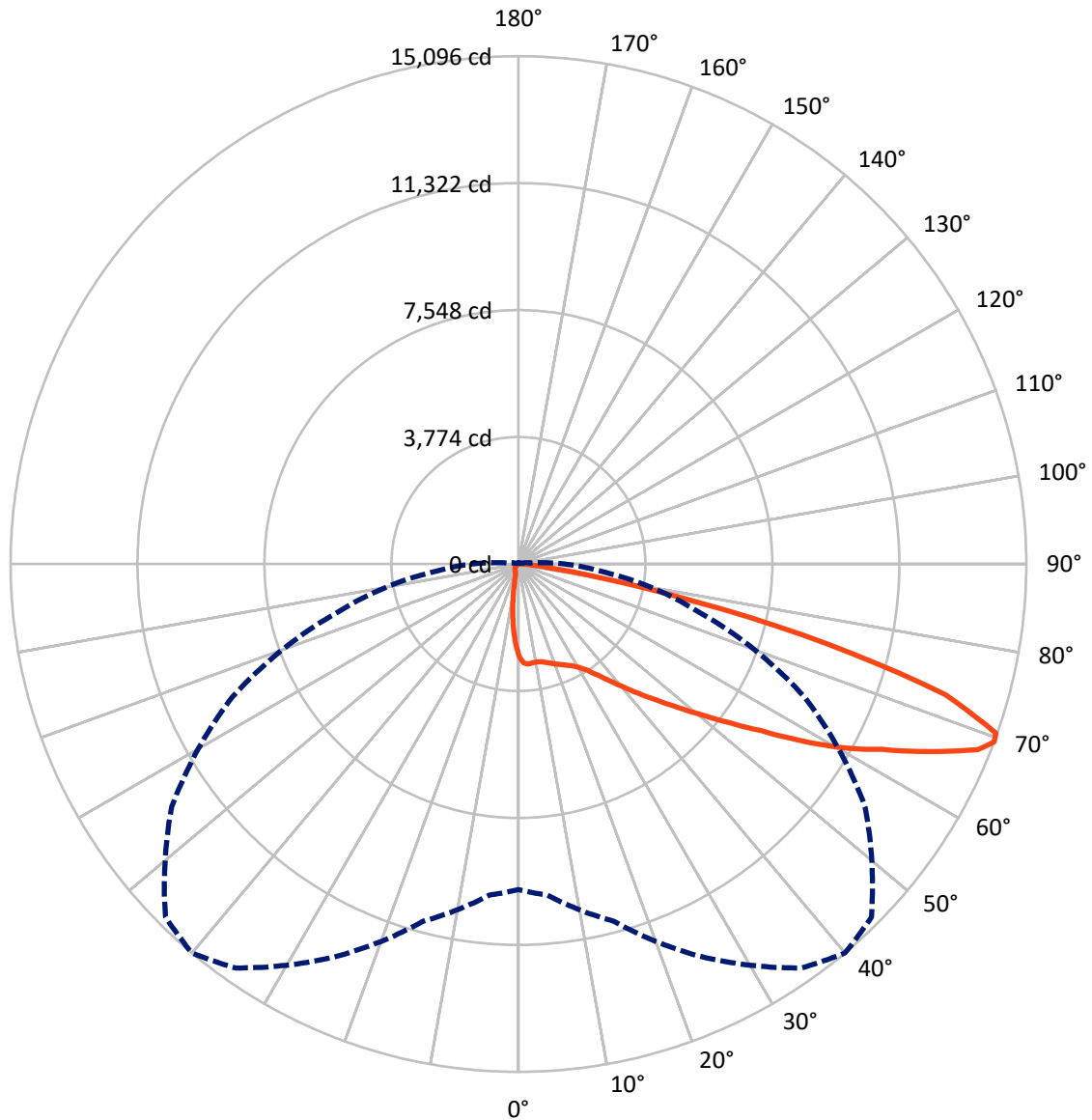


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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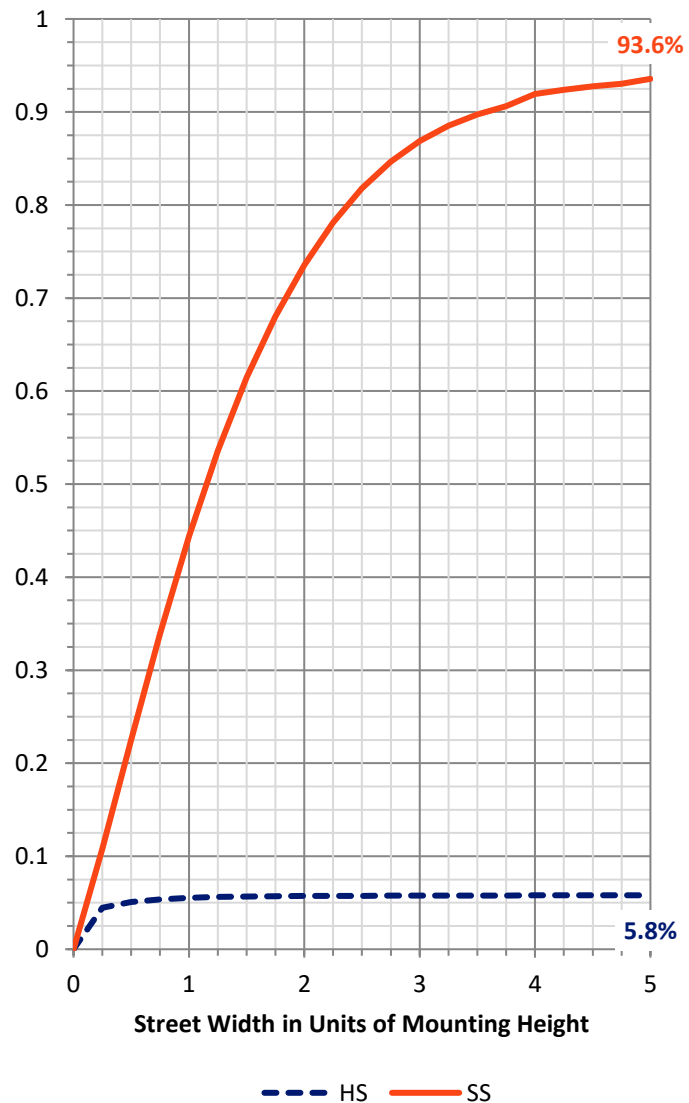
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1074.8	0.0	1074.8
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	17296.2	0.0	17296.2
	% Fixture	94.1	0.0	94.1
Total	Lumens	18371.0	0.0	18371.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.5	1.2
10°-20°	547.3	3.0
20°-30°	921.8	5.0
30°-40°	1509.0	8.2
40°-50°	2612.8	14.2
50°-60°	4115.4	22.4
60°-70°	5374.6	29.3
70°-80°	2768.1	15.1
80°-90°	299.4	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°	18371.0	100.0
0°-180°	18371.0	100.0



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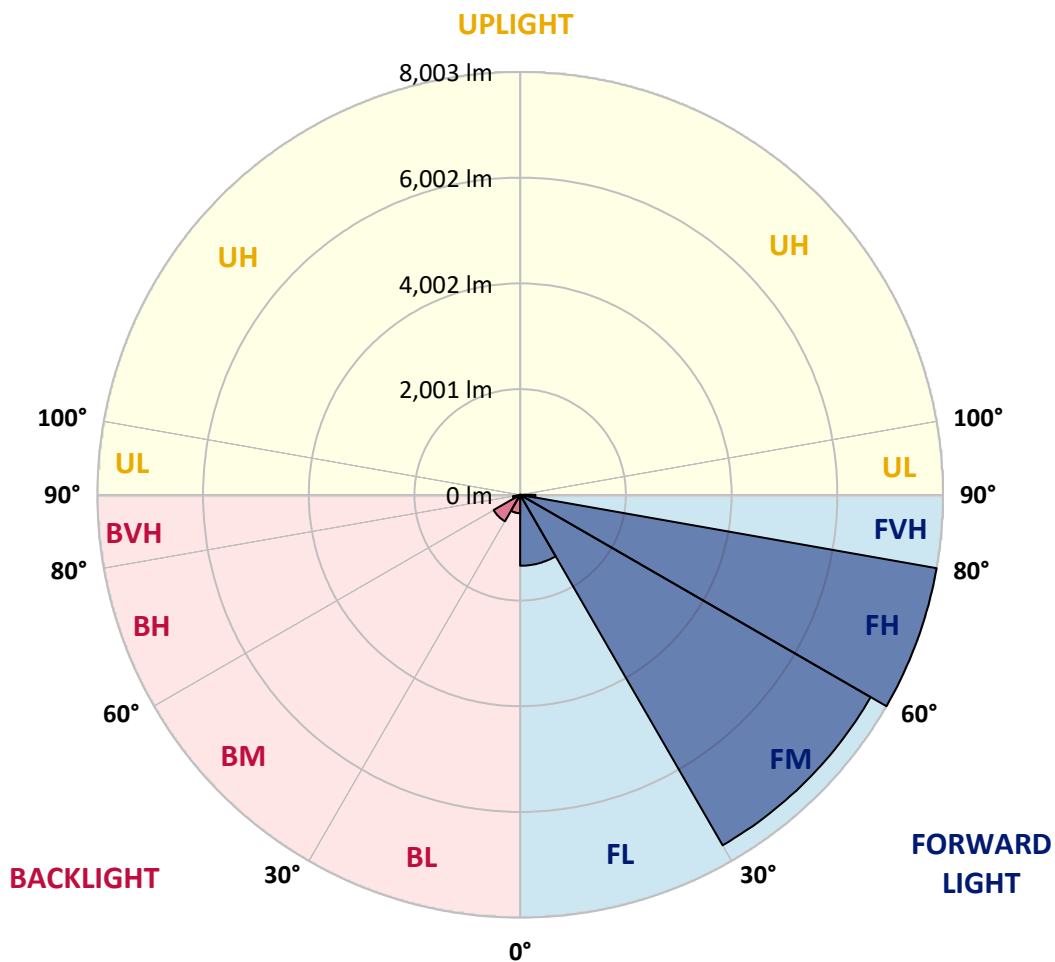
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1343.4	7.3			
FM	(30°-60°)	7659.6	41.7			
FH	(60°-80°)	8003.2	43.6			G4/12000
FVH	(80°-90°)	290.0	1.6			G3/500
BL	(0°-30°)	348.2	1.9	B1/500		
BM	(30°-60°)	577.7	3.1	B1/1000		
BH	(60°-80°)	139.6	0.8	B1/500		G1/500
BVH	(80°-90°)	9.4	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°	2744.7	2744.7	2744.7	2744.7	2744.7	2744.7	2744.7	2744.7	2744.7	2744.7	2744.7
2.5°	3013.7	2997.3	2987.5	2974.4	2958.0	2943.7	2938.3	2897.8	2859.5	2807.1	2746.9
5°	3069.5	3064.0	3046.5	3029.0	3009.4	2987.5	2975.5	2927.3	2872.7	2796.1	2691.1
7.5°	3075.0	3068.4	3046.5	3022.5	2995.1	2968.9	2948.1	2900.0	2849.7	2772.1	2644.1
10°	3066.2	3058.6	3042.2	3015.9	2982.0	2956.9	2936.1	2890.2	2847.5	2777.5	2635.4
12.5°	3056.4	3048.7	3041.1	3027.9	2998.4	2980.9	2963.4	2919.7	2881.4	2822.4	2667.1
15°	3066.2	3061.8	3070.6	3065.1	3048.7	3033.4	3015.9	2976.5	2941.6	2892.3	2725.0
17.5°	3107.8	3107.8	3135.1	3138.4	3123.1	3101.2	3076.1	3036.7	3007.2	2965.6	2793.9
20°	3205.1	3201.8	3236.8	3243.4	3206.2	3172.3	3135.1	3087.0	3064.0	3037.8	2861.7
22.5°	3372.4	3357.1	3377.9	3371.3	3298.0	3245.6	3199.6	3140.6	3128.5	3116.5	2937.2
25°	3590.0	3581.3	3595.5	3531.0	3401.9	3330.8	3276.2	3209.5	3209.5	3221.5	3022.5
27.5°	3906.0	3873.2	3825.1	3711.4	3517.8	3427.1	3368.0	3296.9	3315.5	3360.4	3135.1
30°	4229.7	4193.6	4083.2	3908.2	3658.9	3563.8	3494.9	3420.5	3464.3	3546.3	3286.0
32.5°	4549.0	4508.6	4352.2	4131.3	3861.2	3766.1	3699.4	3617.3	3690.6	3828.4	3506.9
35°	4858.5	4822.4	4642.0	4381.7	4130.2	4051.5	3990.2	3919.2	4013.2	4205.7	3818.6
37.5°	5206.2	5166.9	4947.1	4664.9	4457.2	4400.3	4355.5	4284.4	4448.4	4730.5	4252.7
40°	5633.8	5567.1	5270.7	4989.7	4835.5	4808.2	4777.6	4767.7	5022.5	5412.9	4831.1
42.5°	6123.7	6014.3	5609.7	5332.0	5251.1	5270.7	5263.1	5306.8	5741.0	6261.5	5535.4
45°	6613.6	6472.5	5987.0	5697.2	5708.1	5777.0	5819.7	5994.6	6640.9	7234.7	6293.2
47.5°	7029.1	6890.2	6348.9	6092.0	6223.2	6358.8	6474.7	6806.0	7566.0	8192.6	6882.6
50°	7384.5	7253.3	6732.8	6526.1	6821.3	7040.0	7228.1	7719.1	8561.1	8922.0	7295.9
52.5°	7675.4	7587.9	7130.8	7023.6	7504.8	7825.2	8100.8	8689.1	9442.5	9514.7	7617.4
55°	7958.6	7896.3	7558.4	7615.2	8307.4	8743.7	9092.6	9718.1	10201.4	10008.9	7925.8
57.5°	8284.5	8227.6	8046.1	8365.4	9362.7	9911.6	10292.2	10630.1	10869.5	10514.1	8216.7
60°	8616.9	8584.1	8588.5	9198.6	10574.3	11101.4	11311.3	11398.8	11525.6	10989.8	8233.1
62.5°	8934.0	8996.3	9208.5	10125.9	11734.5	12139.1	12245.2	12331.6	12182.8	11065.3	7606.5
65°	9470.9	9572.6	10078.9	11367.1	13010.6	13443.7	13553.0	13256.7	12286.7	10089.9	6187.1
67.5°	9733.4	9919.3	10822.5	12524.0	14248.5	14729.6	14689.2	13316.8	11025.9	7694.0	3970.6
69°	9678.7	9876.6	10994.2	12878.3	14659.7	15096.0	14839.0	12580.9	9393.3	5573.6	2437.4
70°	9462.2	9662.3	10905.6	12865.2	14712.1	15057.7	14561.2	11672.2	7942.2	4075.5	1524.4
72.5°	7901.7	8074.5	9682.0	11628.4	13553.0	13272.0	12181.8	8086.5	3869.9	1109.9	343.4
75°	4864.0	4960.2	6947.1	8760.1	10236.4	9514.7	8116.1	4023.0	1153.7	313.8	190.3
77.5°	2569.8	2613.5	3803.2	5163.6	6488.9	5369.2	4159.7	1569.2	531.4	196.8	137.8
80°	1518.9	1551.7	2048.2	2360.9	2808.1	2345.6	1663.2	963.4	380.5	123.6	122.5
82.5°	869.3	890.1	1485.0	1312.2	1106.6	944.8	827.8	913.1	228.5	83.1	126.8
85°	319.3	323.7	835.4	998.4	658.3	391.5	411.2	756.7	61.2	52.5	99.5
87.5°	148.7	145.4	429.8	611.3	384.9	248.2	320.4	166.2	24.1	33.9	27.3
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°	2744.7	2744.7	2744.7	2744.7	2744.7	2744.7	2744.7	2744.7	2744.7	2744.7	2744.7
2.5°	2711.9	2671.5	2598.2	2522.7	2446.2	2387.1	2329.2	2283.3	2267.9	2239.5	2241.7
5°	2628.8	2554.5	2401.4	2246.1	2084.2	1950.8	1825.1	1723.4	1674.2	1623.9	1623.9
7.5°	2556.6	2448.4	2208.9	1956.3	1694.9	1475.2	1277.2	1128.5	1046.5	980.9	979.8
10°	2529.3	2382.8	2048.2	1686.2	1322.1	1022.4	787.3	636.4	558.8	508.5	506.3
12.5°	2541.3	2359.8	1924.6	1436.9	979.8	657.2	456.0	358.7	325.9	310.6	310.6
15°	2576.3	2353.2	1801.0	1193.0	692.2	411.2	302.9	276.7	274.5	274.5	274.5
17.5°	2619.0	2355.4	1674.2	955.7	471.3	294.2	261.4	258.1	260.3	260.3	260.3
20°	2662.7	2356.5	1537.5	735.9	332.4	255.9	246.0	244.9	247.1	247.1	248.2
22.5°	2716.3	2362.0	1400.8	550.0	274.5	241.7	234.0	234.0	235.1	235.1	234.0
25°	2777.5	2372.9	1258.6	407.9	250.4	231.8	225.3	224.2	225.3	224.2	223.1
27.5°	2854.1	2388.2	1100.1	319.3	239.5	222.0	216.5	216.5	215.4	214.3	213.2
30°	2950.3	2405.7	921.8	271.2	228.5	213.2	207.8	206.7	205.6	203.4	203.4
32.5°	3096.8	2444.0	745.8	246.0	216.5	201.2	196.8	196.8	194.6	192.5	191.4
35°	3322.1	2519.5	588.3	230.7	203.4	188.1	182.6	182.6	180.4	179.3	178.2
37.5°	3633.7	2634.3	457.1	216.5	190.3	173.9	168.4	167.3	165.1	162.9	161.8
40°	4048.2	2776.4	359.8	203.4	177.1	159.7	155.3	153.1	148.7	145.4	145.4
42.5°	4568.7	2938.3	292.0	189.2	161.8	146.5	143.3	140.0	132.3	129.0	127.9
45°	5113.3	3083.7	247.1	172.8	146.5	133.4	131.2	125.8	115.9	112.6	112.6
47.5°	5505.8	3117.6	217.6	157.5	132.3	119.2	118.1	108.3	99.5	97.3	96.2
50°	5750.8	3050.9	193.6	142.2	119.2	106.1	102.8	90.8	85.3	83.1	82.0
52.5°	5915.9	2931.7	173.9	129.0	107.2	94.0	86.4	77.6	73.3	71.1	71.1
55°	6048.2	2763.3	154.2	117.0	97.3	84.2	73.3	66.7	62.3	60.1	60.1
57.5°	6085.4	2534.8	134.5	107.2	87.5	74.4	62.3	58.0	52.5	51.4	51.4
60°	5815.3	2122.5	119.2	95.1	78.7	64.5	54.7	49.2	43.7	42.6	41.6
62.5°	5103.4	1642.5	105.0	84.2	68.9	55.8	47.0	40.5	36.1	36.1	36.1
65°	3892.9	1101.2	91.9	73.3	60.1	47.0	40.5	32.8	30.6	30.6	31.7
67.5°	2330.3	599.2	78.7	62.3	51.4	39.4	33.9	28.4	27.3	28.4	28.4
69°	1365.8	352.1	71.1	55.8	44.8	35.0	29.5	25.2	27.3	28.4	28.4
70°	843.1	237.3	65.6	50.3	40.5	31.7	27.3	24.1	26.2	27.3	27.3
72.5°	235.1	122.5	52.5	39.4	32.8	26.2	21.9	21.9	25.2	26.2	26.2
75°	153.1	90.8	40.5	29.5	25.2	20.8	18.6	20.8	24.1	25.2	25.2
77.5°	126.8	74.4	32.8	24.1	20.8	19.7	17.5	18.6	21.9	23.0	23.0
80°	115.9	52.5	26.2	21.9	18.6	17.5	16.4	15.3	19.7	20.8	20.8
82.5°	110.4	41.6	23.0	19.7	17.5	15.3	14.2	15.3	17.5	18.6	19.7
85°	68.9	27.3	20.8	18.6	15.3	14.2	14.2	14.2	16.4	17.5	17.5
87.5°	25.2	21.9	18.6	15.3	13.1	13.1	13.1	13.1	14.2	16.4	16.4
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)