

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: P193746

Luminaire Tested: **GLEON-AF-08-LED-E1-SL4-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193746
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-08-LED-E1-SL4-8030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 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: 25526 lumens
Efficiency: N/A
Efficacy: 76.4 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): 334
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

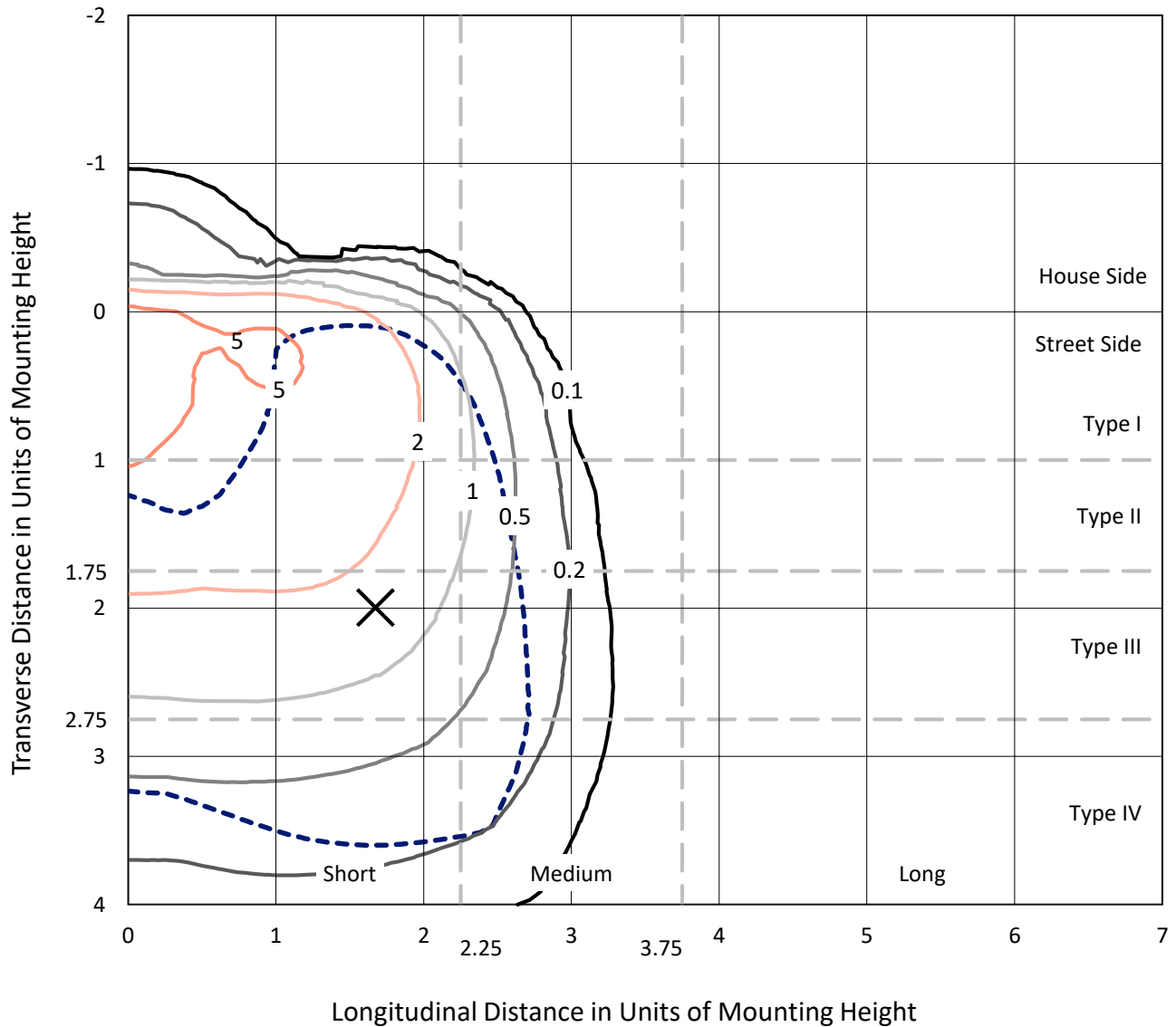


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

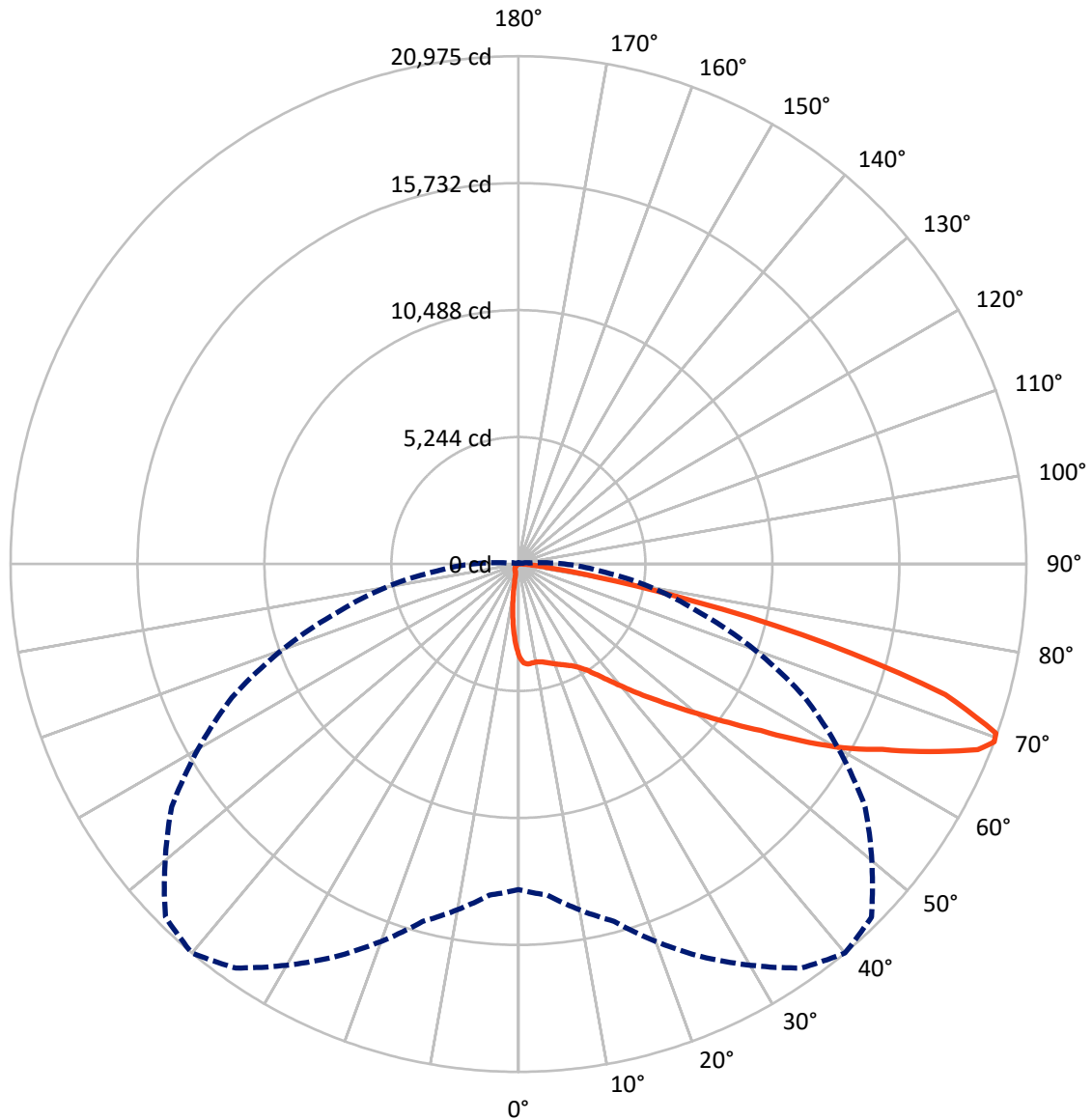


Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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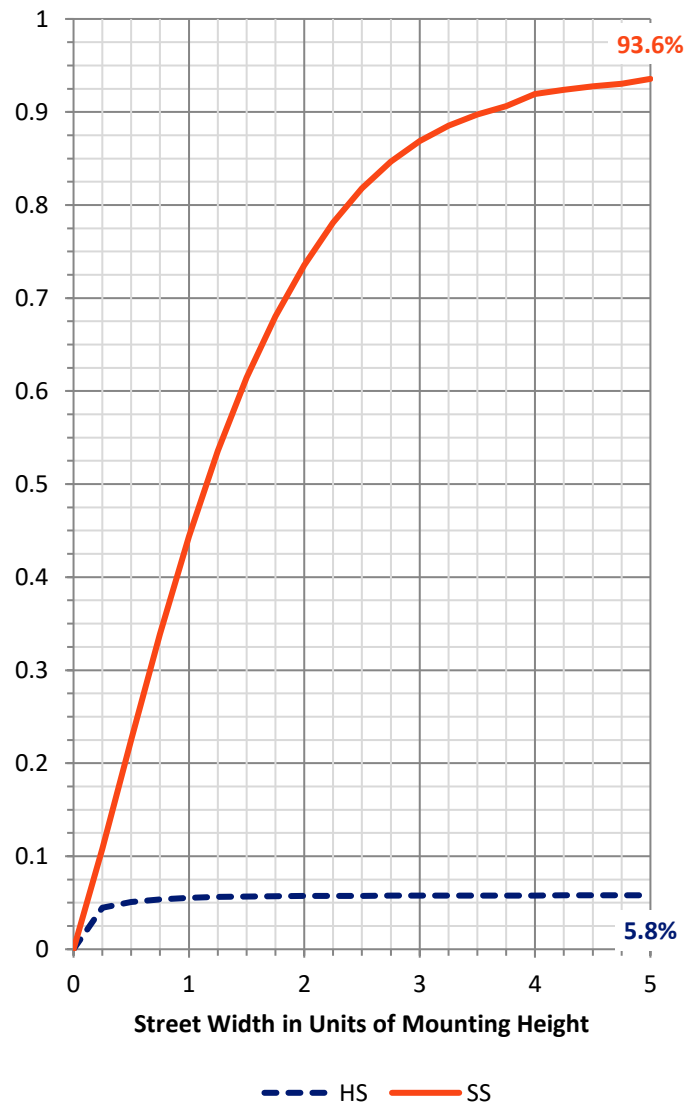
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1493.4	0.0	1493.4
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	24032.6	0.0	24032.6
	% Fixture	94.1	0.0	94.1
Total	Lumens	25526.0	0.0	25526.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.2	1.2
10°-20°	760.4	3.0
20°-30°	1280.8	5.0
30°-40°	2096.7	8.2
40°-50°	3630.4	14.2
50°-60°	5718.3	22.4
60°-70°	7467.8	29.3
70°-80°	3846.3	15.1
80°-90°	416.1	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°	25526.0	100.0
0°-180°	25526.0	100.0



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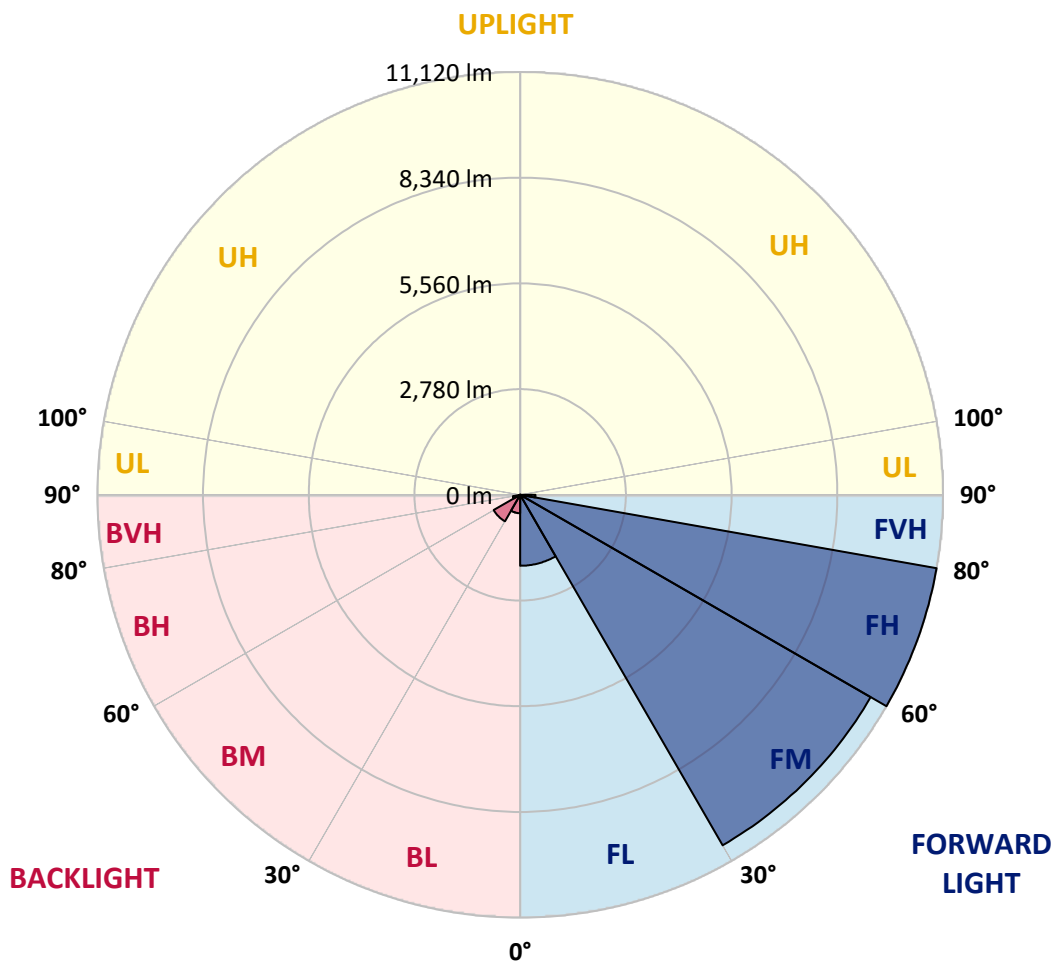
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1866.7	7.3			
FM (30°-60°)	10642.7	41.7			
FH (60°-80°)	11120.2	43.6			G4/12000
FVH (80°-90°)	403.0	1.6			G3/500
BL (0°-30°)	483.8	1.9	B1/500		
BM (30°-60°)	802.7	3.1	B1/1000		
BH (60°-80°)	193.9	0.8	B1/500		G1/500
BVH (80°-90°)	13.1	0.1			G1/100
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°	3813.7	3813.7	3813.7	3813.7	3813.7	3813.7	3813.7	3813.7	3813.7	3813.7	3813.7
2.5°	4187.5	4164.7	4151.0	4132.8	4110.0	4090.2	4082.7	4026.4	3973.3	3900.3	3816.8
5°	4265.0	4257.4	4233.1	4208.8	4181.4	4151.0	4134.3	4067.5	3991.5	3885.1	3739.3
7.5°	4272.6	4263.5	4233.1	4199.6	4161.7	4125.2	4096.3	4029.5	3959.6	3851.7	3673.9
10°	4260.4	4249.8	4227.0	4190.5	4143.4	4108.5	4079.6	4015.8	3956.5	3859.3	3661.8
12.5°	4246.7	4236.1	4225.5	4207.2	4166.2	4141.9	4117.6	4056.8	4003.6	3921.6	3705.8
15°	4260.4	4254.3	4266.5	4258.9	4236.1	4214.8	4190.5	4135.8	4087.2	4018.8	3786.4
17.5°	4318.2	4318.2	4356.1	4360.7	4339.4	4309.0	4274.1	4219.4	4178.4	4120.6	3882.1
20°	4453.4	4448.8	4497.4	4506.6	4454.9	4407.8	4356.1	4289.3	4257.4	4220.9	3976.3
22.5°	4685.9	4664.6	4693.5	4684.3	4582.5	4509.6	4445.8	4363.7	4347.0	4330.3	4081.1
25°	4988.2	4976.1	4995.8	4906.2	4726.9	4628.1	4552.1	4459.5	4459.5	4476.2	4199.6
27.5°	5427.3	5381.7	5314.9	5156.9	4887.9	4761.8	4679.8	4581.0	4606.8	4669.1	4356.1
30°	5877.1	5826.9	5673.5	5430.4	5083.9	4951.8	4856.0	4752.7	4813.5	4927.4	4565.8
32.5°	6320.7	6264.5	6047.2	5740.3	5365.0	5232.8	5140.2	5026.2	5128.0	5319.4	4872.7
35°	6750.7	6700.6	6449.9	6088.3	5738.8	5629.4	5544.3	5445.6	5576.2	5843.6	5305.8
37.5°	7233.9	7179.2	6873.8	6481.8	6193.1	6114.1	6051.8	5953.0	6181.0	6573.0	5909.0
40°	7828.0	7735.3	7323.5	6933.1	6718.8	6680.8	6638.3	6624.6	6978.6	7521.1	6712.7
42.5°	8508.7	8356.7	7794.6	7408.6	7296.2	7323.5	7312.9	7373.7	7976.9	8700.1	7691.2
45°	9189.4	8993.4	8318.8	7916.1	7931.3	8027.0	8086.3	8329.4	9227.4	10052.4	8744.2
47.5°	9766.8	9573.8	8821.7	8464.6	8647.0	8835.4	8996.4	9456.8	10512.8	11383.4	9563.2
50°	10260.6	10078.2	9355.0	9067.8	9478.1	9782.0	10043.3	10725.5	11895.5	12396.9	10137.5
52.5°	10664.7	10543.2	9908.1	9759.2	10427.7	10872.9	11255.8	12073.2	13120.1	13220.4	10584.2
55°	11058.3	10971.6	10502.2	10581.2	11542.9	12149.2	12633.9	13503.0	14174.6	13907.1	11012.7
57.5°	11511.0	11432.0	11179.8	11623.5	13009.2	13771.9	14300.7	14770.2	15102.9	14609.1	11416.8
60°	11972.9	11927.4	11933.4	12781.3	14692.7	15425.0	15716.8	15838.3	16014.6	15270.1	11439.6
62.5°	12413.6	12500.2	12794.9	14069.7	16304.8	16867.0	17014.3	17134.4	16927.7	15374.9	10569.0
65°	13159.6	13300.9	14004.4	15794.3	18077.9	18679.6	18831.6	18419.8	17072.1	14019.6	8596.8
67.5°	13524.3	13782.6	15037.6	17401.8	19797.9	20466.4	20410.2	18503.4	15320.2	10690.6	5517.0
69°	13448.3	13723.3	15276.1	17894.1	20369.2	20975.4	20618.4	17480.8	13051.7	7744.4	3386.8
70°	13147.4	13425.5	15153.1	17875.8	20442.1	20922.3	20232.4	16218.2	11035.5	5662.8	2118.1
72.5°	10979.2	11219.3	13452.8	16157.4	18831.6	18441.1	16926.2	11236.0	5377.2	1542.2	477.1
75°	6758.3	6892.0	9652.8	12172.0	14223.2	13220.4	11277.1	5589.9	1603.0	436.1	264.4
77.5°	3570.6	3631.4	5284.5	7174.6	9016.2	7460.3	5779.8	2180.4	738.4	273.5	191.4
80°	2110.5	2156.0	2845.9	3280.4	3901.8	3259.1	2311.0	1338.6	528.8	171.7	170.2
82.5°	1207.9	1236.8	2063.4	1823.3	1537.6	1312.8	1150.2	1268.7	317.6	115.5	176.3
85°	443.7	449.7	1160.8	1387.2	914.7	543.9	571.3	1051.4	85.1	72.9	138.3
87.5°	206.6	202.1	597.1	849.3	534.8	344.9	445.2	231.0	33.4	47.1	38.0
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°	3813.7	3813.7	3813.7	3813.7	3813.7	3813.7	3813.7	3813.7	3813.7	3813.7	3813.7
2.5°	3768.1	3711.9	3610.1	3505.3	3398.9	3316.9	3236.3	3172.5	3151.3	3111.7	3114.8
5°	3652.7	3549.3	3336.6	3120.9	2896.0	2710.6	2535.9	2394.6	2326.2	2256.3	2256.3
7.5°	3552.4	3402.0	3069.2	2718.2	2355.1	2049.7	1774.7	1568.0	1454.1	1362.9	1361.4
10°	3514.4	3310.8	2845.9	2342.9	1837.0	1420.6	1094.0	884.3	776.4	706.5	703.5
12.5°	3531.1	3278.9	2674.2	1996.5	1361.4	913.2	633.6	498.4	452.8	431.5	431.5
15°	3579.7	3269.8	2502.5	1657.7	961.8	571.3	420.9	384.4	381.4	381.4	381.4
17.5°	3639.0	3272.8	2326.2	1328.0	654.9	408.7	363.1	358.6	361.6	361.6	361.6
20°	3699.8	3274.3	2136.3	1022.6	461.9	355.5	341.9	340.3	343.4	343.4	344.9
22.5°	3774.2	3281.9	1946.4	764.3	381.4	335.8	325.2	325.2	326.7	326.7	325.2
25°	3859.3	3297.1	1748.8	566.7	347.9	322.1	313.0	311.5	313.0	311.5	310.0
27.5°	3965.7	3318.4	1528.5	443.7	332.8	308.4	300.8	300.8	299.3	297.8	296.3
30°	4099.4	3342.7	1280.9	376.8	317.6	296.3	288.7	287.2	285.6	282.6	282.6
32.5°	4303.0	3395.9	1036.2	341.9	300.8	279.6	273.5	273.5	270.5	267.4	265.9
35°	4616.0	3500.7	817.4	320.6	282.6	261.3	253.7	253.7	250.7	249.2	247.7
37.5°	5049.0	3660.3	635.1	300.8	264.4	241.6	234.0	232.5	229.4	226.4	224.9
40°	5624.9	3857.8	499.9	282.6	246.1	221.8	215.8	212.7	206.6	202.1	202.1
42.5°	6348.1	4082.7	405.7	262.9	224.9	203.6	199.0	194.5	183.8	179.3	177.8
45°	7104.8	4284.7	343.4	240.1	203.6	185.4	182.3	174.7	161.1	156.5	156.5
47.5°	7650.2	4331.8	302.4	218.8	183.8	165.6	164.1	150.4	138.3	135.2	133.7
50°	7990.6	4239.2	268.9	197.5	165.6	147.4	142.8	126.1	118.5	115.5	114.0
52.5°	8220.0	4073.5	241.6	179.3	148.9	130.7	120.0	107.9	101.8	98.8	98.8
55°	8403.8	3839.5	214.2	162.6	135.2	117.0	101.8	92.7	86.6	83.6	83.6
57.5°	8455.5	3522.0	186.9	148.9	121.6	103.3	86.6	80.5	72.9	71.4	71.4
60°	8080.2	2949.2	165.6	132.2	109.4	89.6	76.0	68.4	60.8	59.3	57.7
62.5°	7091.1	2282.2	145.9	117.0	95.7	77.5	65.3	56.2	50.1	50.1	50.1
65°	5409.1	1530.0	127.6	101.8	83.6	65.3	56.2	45.6	42.5	42.5	44.1
67.5°	3237.9	832.6	109.4	86.6	71.4	54.7	47.1	39.5	38.0	39.5	39.5
69°	1897.7	489.2	98.8	77.5	62.3	48.6	41.0	34.9	38.0	39.5	39.5
70°	1171.5	329.7	91.2	69.9	56.2	44.1	38.0	33.4	36.5	38.0	38.0
72.5°	326.7	170.2	72.9	54.7	45.6	36.5	30.4	30.4	34.9	36.5	36.5
75°	212.7	126.1	56.2	41.0	34.9	28.9	25.8	28.9	33.4	34.9	34.9
77.5°	176.3	103.3	45.6	33.4	28.9	27.3	24.3	25.8	30.4	31.9	31.9
80°	161.1	72.9	36.5	30.4	25.8	24.3	22.8	21.3	27.3	28.9	28.9
82.5°	153.5	57.7	31.9	27.3	24.3	21.3	19.8	21.3	24.3	25.8	27.3
85°	95.7	38.0	28.9	25.8	21.3	19.8	19.8	19.8	22.8	24.3	24.3
87.5°	34.9	30.4	25.8	21.3	18.2	18.2	18.2	18.2	19.8	22.8	22.8
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)