

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: P191147

Luminaire Tested: **GLEON-AF-09-LED-E1-SL3-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191147
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-SL3-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1200mA 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: 51015.6 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 575
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

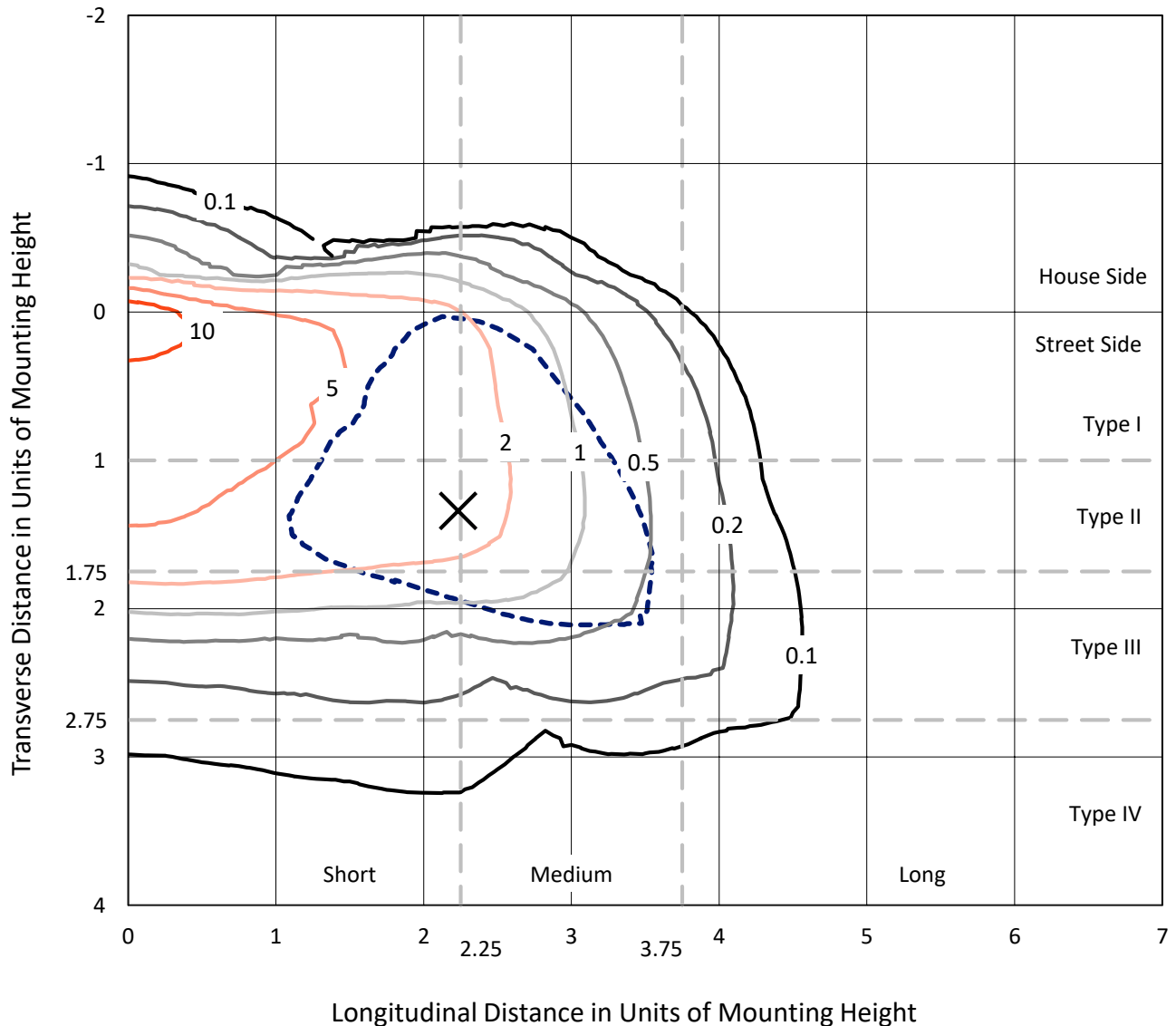


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Iso-Footcandle Lines of Horizontal Illumination

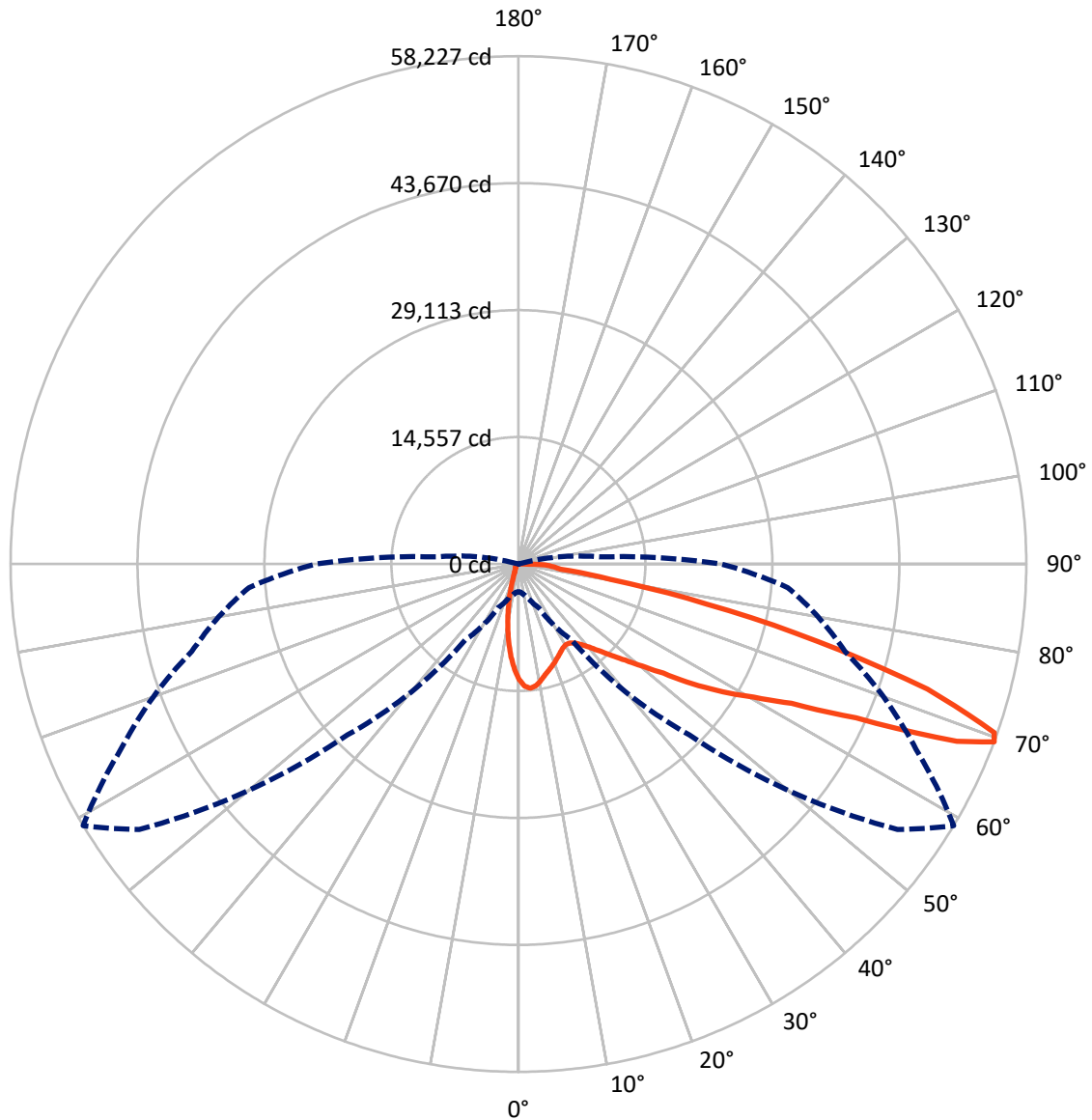
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.8 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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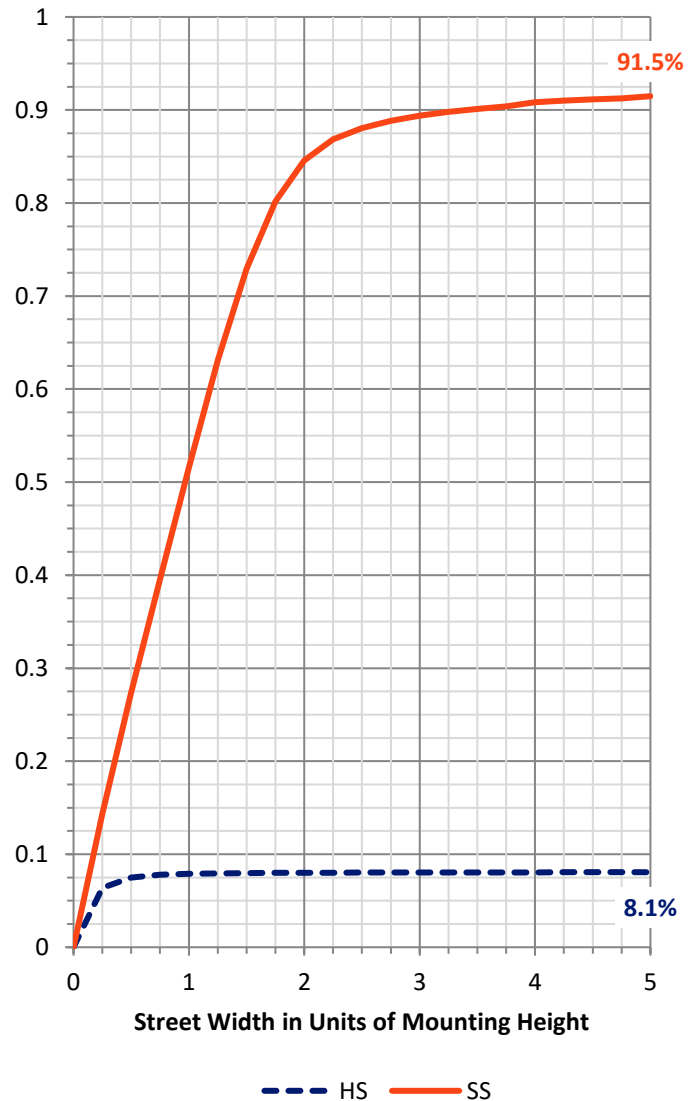
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4154.5	0.0	4154.5
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	46861.0	0.0	46861.0
	% Fixture	91.9	0.0	91.9
Total	Lumens	51015.6	0.0	51015.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1077.8	2.1
10°-20°	2227.1	4.4
20°-30°	2996.9	5.9
30°-40°	4351.2	8.5
40°-50°	7245.1	14.2
50°-60°	11302.3	22.2
60°-70°	13985.7	27.4
70°-80°	7087.8	13.9
80°-90°	741.6	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°	51015.6	100.0
0°-180°	51015.6	100.0

Coefficient of Utilization



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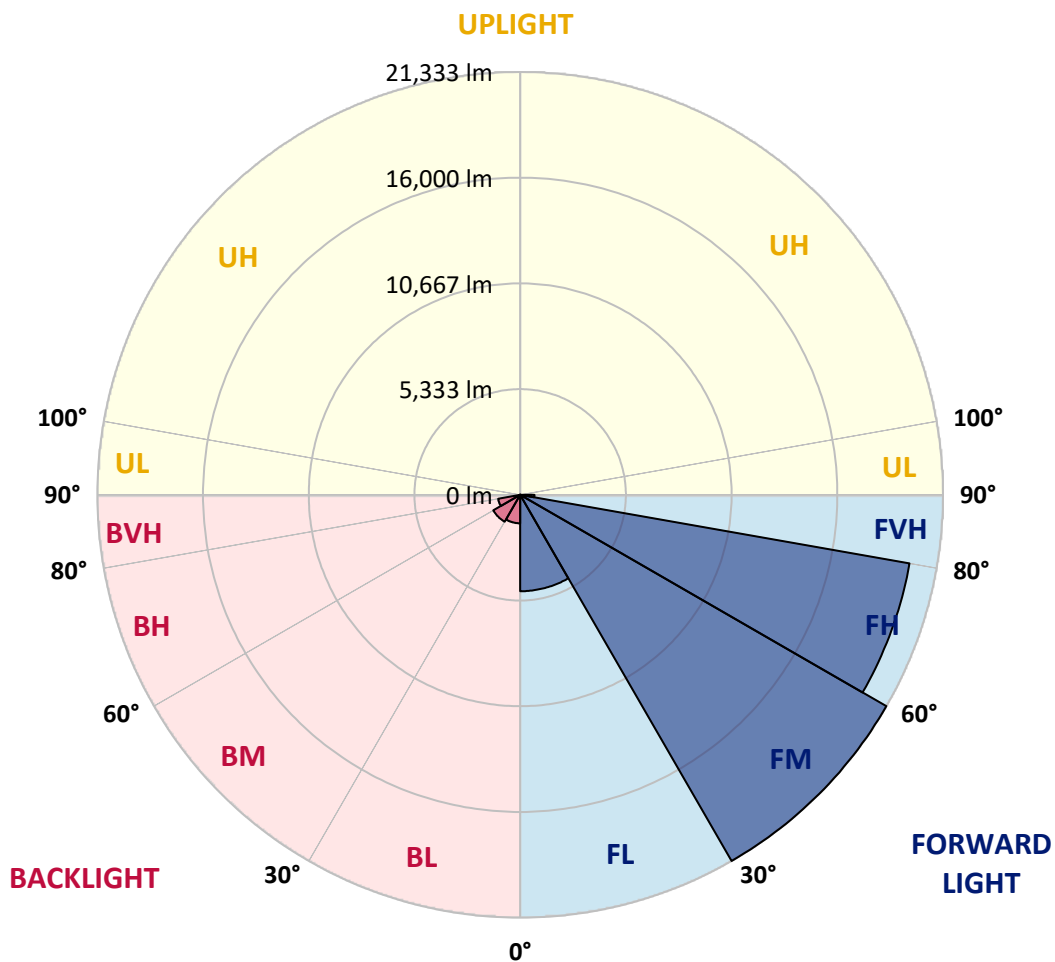
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4863.8	9.5			
FM (30°-60°)	21333.2	41.8			
FH (60°-80°)	19945.2	39.1			G5
FVH (80°-90°)	718.8	1.4			G4/750
BL (0°-30°)	1438.0	2.8	B3/2500		
BM (30°-60°)	1565.4	3.1	B2/2500		
BH (60°-80°)	1128.3	2.2	B3/2500		G3/2500
BVH (80°-90°)	22.8	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	13278.6	13278.6	13278.6	13278.6	13278.6	13278.6	13278.6	13278.6	13278.6	13278.6	13278.6
2.5°	14553.7	14548.0	14484.5	14455.6	14403.8	14294.1	14123.9	14034.5	13890.2	13639.2	13301.7
5°	14421.0	14490.3	14527.7	14530.6	14568.1	14527.7	14374.9	14299.8	14100.8	13696.9	13091.1
7.5°	13521.0	13546.9	13653.6	13746.0	13924.8	14095.0	14149.9	14118.2	13999.8	13567.1	12762.2
10°	12557.4	12583.4	12710.4	12831.5	13073.8	13336.3	13613.3	13671.0	13720.0	13382.5	12444.9
12.5°	11726.6	11752.6	11882.4	12041.1	12323.8	12646.8	13076.7	13171.9	13388.3	13206.5	12191.1
15°	11011.2	11022.7	11149.7	11345.9	11683.3	12098.7	12586.3	12739.2	13071.0	13082.5	11968.9
17.5°	10402.5	10431.3	10509.3	10696.8	11066.0	11579.5	12147.8	12367.1	12756.5	12978.6	11752.6
20°	10030.3	10059.2	10056.3	10160.2	10492.0	11040.1	11709.3	11971.8	12444.9	12871.9	11559.3
22.5°	9958.2	9958.2	9883.2	9868.8	10065.0	10523.7	11253.6	11573.8	12165.1	12825.8	11423.7
25°	10215.0	10203.4	10015.9	9863.1	9871.7	10145.7	10812.2	11192.9	11928.5	12857.5	11351.6
27.5°	10757.4	10742.9	10506.4	10215.0	9981.3	9978.5	10477.6	10887.2	11741.0	13007.4	11380.4
30°	11507.4	11501.6	11244.9	10878.5	10454.5	10065.0	10362.2	10734.2	11619.9	13278.6	11446.8
32.5°	12326.7	12318.1	12124.7	11738.2	11201.6	10454.5	10483.3	10794.9	11654.5	13639.2	11608.3
35°	13195.0	13180.5	13096.9	12759.4	12168.0	11172.8	10881.4	11123.7	11873.8	14178.7	11925.7
37.5°	14135.4	14149.9	14210.4	13887.4	13267.2	12179.6	11547.8	11712.2	12315.1	14911.5	12442.0
40°	15523.0	15520.1	15540.4	15116.2	14519.2	13411.4	12479.6	12531.5	13053.7	15883.6	13226.8
42.5°	18041.4	17865.4	17331.8	16466.3	15866.3	14819.1	13653.6	13598.9	13956.5	17086.6	14325.8
45°	21425.3	21050.3	19665.5	18006.8	17239.5	16405.8	15099.0	14923.0	15150.9	18531.9	15681.6
47.5°	24336.0	23946.6	21987.8	19610.8	18696.3	17911.6	16792.4	16475.0	16550.0	20150.2	17401.0
50°	25325.5	25135.1	23424.4	21007.0	20106.9	19806.9	18756.8	18370.3	18263.6	22022.4	19394.4
52.5°	24982.2	24967.8	23828.3	21912.8	21399.3	21768.6	21229.1	20782.0	20389.7	23995.7	21422.4
55°	24431.2	24503.4	23992.7	22706.1	22688.8	23560.0	24610.0	24237.9	23101.3	26139.1	23170.6
57.5°	22910.9	23219.7	23900.4	24206.2	24915.9	25807.2	27425.6	27644.8	26300.6	27780.5	24621.6
60°	18589.6	19267.5	21494.5	24422.5	27786.2	30007.5	30823.9	31011.4	28925.7	29145.0	26580.4
62.5°	13195.0	13887.4	16711.5	21664.7	27829.5	35526.1	35886.6	35151.0	31816.2	31167.2	29958.4
65°	7004.2	7537.9	9845.8	15638.4	24128.3	36806.9	44740.1	42547.7	36916.6	35145.3	34323.2
67.5°	3582.9	3744.4	4661.8	7653.3	16587.5	32693.2	52676.1	54219.5	45706.5	39091.7	34112.5
69°	3170.3	3265.6	3874.2	5533.0	10621.8	27691.0	53062.7	58226.5	50307.7	38762.8	30999.9
70°	3069.4	3153.0	3707.0	5008.0	8302.4	23222.5	51582.8	57874.5	51484.7	37510.8	28674.7
72.5°	2604.9	2677.1	3300.1	4425.3	6747.5	11527.6	41901.5	49041.3	46199.7	31248.0	20756.0
75°	1742.4	1979.0	3167.5	4148.3	6277.2	6548.4	27624.7	35439.5	32921.1	21076.3	10812.2
77.5°	418.3	450.0	894.3	3300.1	5740.7	5763.8	14207.6	22031.1	17969.3	7511.9	2555.9
80°	225.0	216.4	250.9	654.9	5345.5	5409.0	6395.6	10693.9	6415.7	1246.3	842.4
82.5°	158.7	150.0	161.5	274.0	1681.8	4927.2	4627.2	4840.7	2659.8	478.8	377.9
85°	57.7	54.8	89.4	248.1	527.9	2832.9	4754.2	3992.6	2154.9	219.2	276.9
87.5°	20.2	17.3	34.6	135.5	161.5	1205.9	2933.8	3017.5	848.1	132.7	129.8
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°	13278.6	13278.6	13278.6	13278.6	13278.6	13278.6	13278.6	13278.6	13278.6	13278.6	13278.6
2.5°	13160.4	12981.6	12652.7	12315.1	12003.6	11628.6	11441.1	11256.4	11178.5	11149.7	11014.1
5°	12779.6	12476.7	11778.6	11077.5	10431.3	9744.8	9291.9	8928.4	8714.9	8611.1	8446.6
7.5°	12292.1	11795.9	10737.2	9655.3	8648.5	7656.2	6920.6	6355.2	5965.7	5778.2	5608.0
10°	11819.0	11158.3	9652.5	8178.4	6811.0	5495.5	4480.1	3744.4	3274.3	3057.9	2919.4
12.5°	11394.9	10538.1	8605.3	6738.9	5022.4	3481.9	2449.1	1863.6	1572.2	1471.2	1422.2
15°	11017.0	9966.9	7615.9	5371.4	3401.1	1990.5	1338.5	1139.5	1093.3	1093.3	1087.6
17.5°	10659.2	9407.3	6660.9	4087.7	2134.7	1217.4	1018.3	992.4	992.4	1003.9	1003.9
20°	10315.9	8873.6	5737.8	2933.8	1344.3	966.4	920.2	914.5	920.2	934.7	934.7
22.5°	10021.7	8388.9	4875.3	2013.6	998.1	871.2	848.1	839.4	842.4	851.0	856.8
25°	9802.5	7979.3	4061.7	1364.5	859.7	793.3	767.3	752.9	741.4	741.4	747.2
27.5°	9664.0	7633.2	3274.3	992.4	773.1	721.2	680.8	657.8	631.8	617.4	623.1
30°	9563.1	7304.3	2535.7	810.6	692.3	640.5	588.5	551.0	513.5	496.2	502.0
32.5°	9525.5	7038.8	1895.3	715.5	620.2	562.5	499.1	450.0	409.6	395.2	398.1
35°	9626.5	6828.3	1387.5	646.2	562.5	490.4	418.3	363.5	331.7	323.0	326.0
37.5°	9891.9	6715.8	1038.5	588.5	510.7	429.8	349.0	297.2	276.9	276.9	279.8
40°	10393.9	6712.9	833.7	548.1	464.4	372.1	288.5	250.9	239.5	245.2	248.1
42.5°	11126.6	6865.7	727.0	510.7	424.0	317.3	239.5	213.5	210.6	216.4	219.2
45°	12127.6	7145.6	669.3	478.8	380.7	265.4	201.9	184.6	184.6	193.2	196.2
47.5°	13353.7	7555.2	620.2	447.1	337.5	222.1	173.1	161.5	164.4	173.1	175.9
50°	14830.6	8071.6	571.2	412.6	305.8	184.6	150.0	141.4	144.2	155.8	158.7
52.5°	16512.5	8766.9	530.8	380.7	265.4	152.9	126.9	121.1	126.9	138.5	141.4
55°	17954.8	9390.0	481.7	354.9	213.5	126.9	103.8	103.8	109.7	124.1	126.9
57.5°	19342.5	10041.9	438.4	305.8	167.4	101.0	86.5	89.4	98.1	112.5	115.4
60°	21379.2	11146.8	386.6	256.8	126.9	80.8	72.1	75.0	86.5	101.0	103.8
62.5°	24838.0	12828.6	334.6	213.5	98.1	63.4	57.7	63.4	77.8	95.2	98.1
65°	27959.3	13512.4	274.0	178.8	75.0	49.0	49.0	57.7	75.0	92.3	95.2
67.5°	26219.8	11374.7	213.5	141.4	57.7	37.5	40.4	54.8	72.1	92.3	95.2
69°	23187.8	9300.6	181.8	112.5	49.0	34.6	37.5	54.8	72.1	89.4	92.3
70°	20825.2	7852.4	161.5	95.2	43.3	34.6	37.5	52.0	72.1	89.4	92.3
72.5°	13947.9	4240.6	129.8	69.3	40.4	31.7	31.7	52.0	69.3	86.5	89.4
75°	5994.6	1171.2	103.8	49.0	34.6	28.8	28.8	49.0	66.4	83.7	89.4
77.5°	1096.2	297.2	83.7	43.3	34.6	28.8	26.0	46.1	63.4	80.8	83.7
80°	435.6	147.1	66.4	37.5	31.7	26.0	23.1	43.3	60.6	77.8	80.8
82.5°	262.5	83.7	54.8	34.6	31.7	23.1	20.2	37.5	57.7	75.0	77.8
85°	213.5	57.7	43.3	34.6	28.8	23.1	17.3	34.6	52.0	72.1	75.0
87.5°	103.8	40.4	40.4	31.7	28.8	23.1	17.3	31.7	49.0	69.3	72.1
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)