

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: P192014

Luminaire Tested: **GLEON-AF-06-LED-E1-SL4-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192014
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-SL4-7050-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5000K, 1050mA 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: 28894 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 333
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

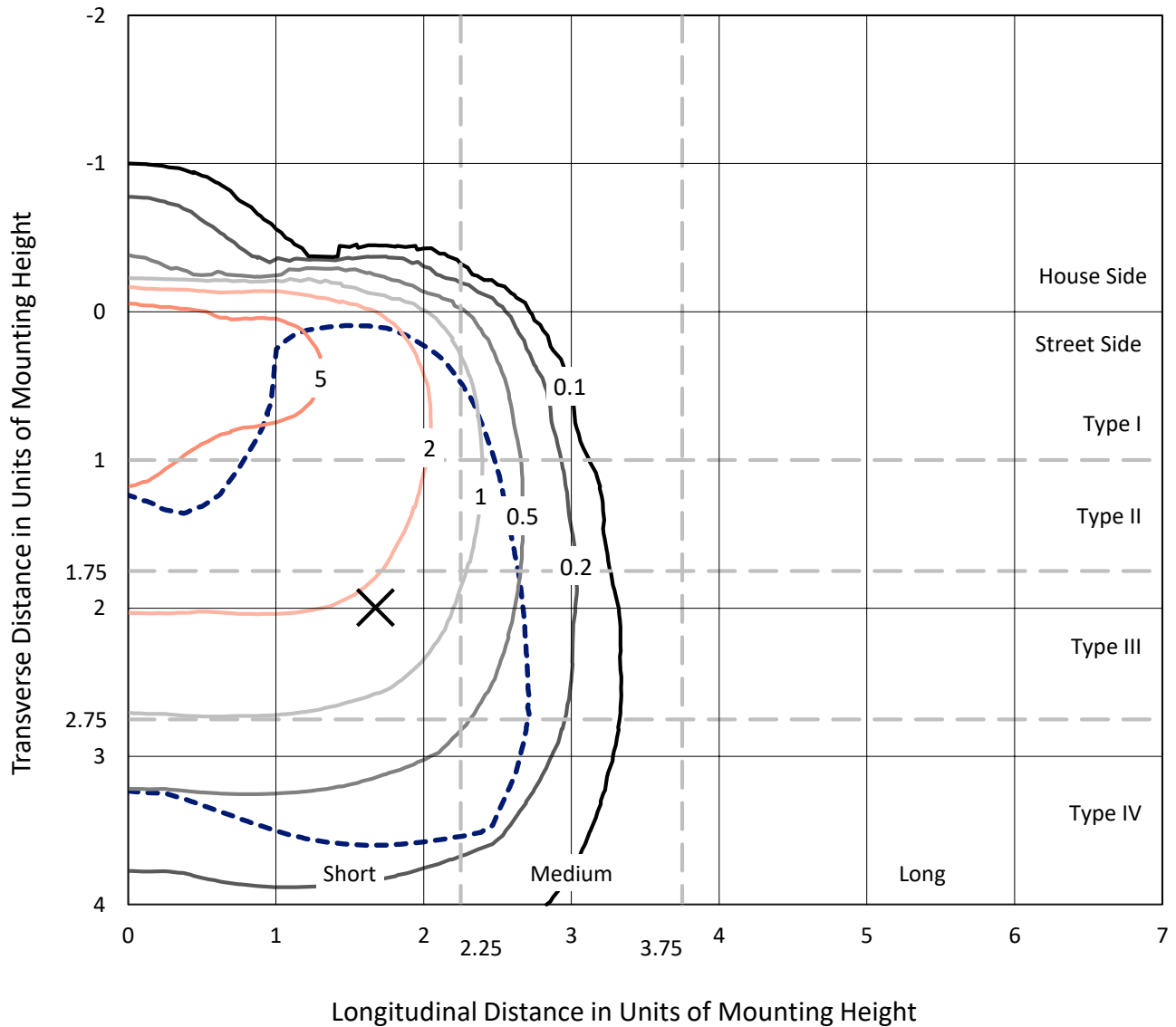


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

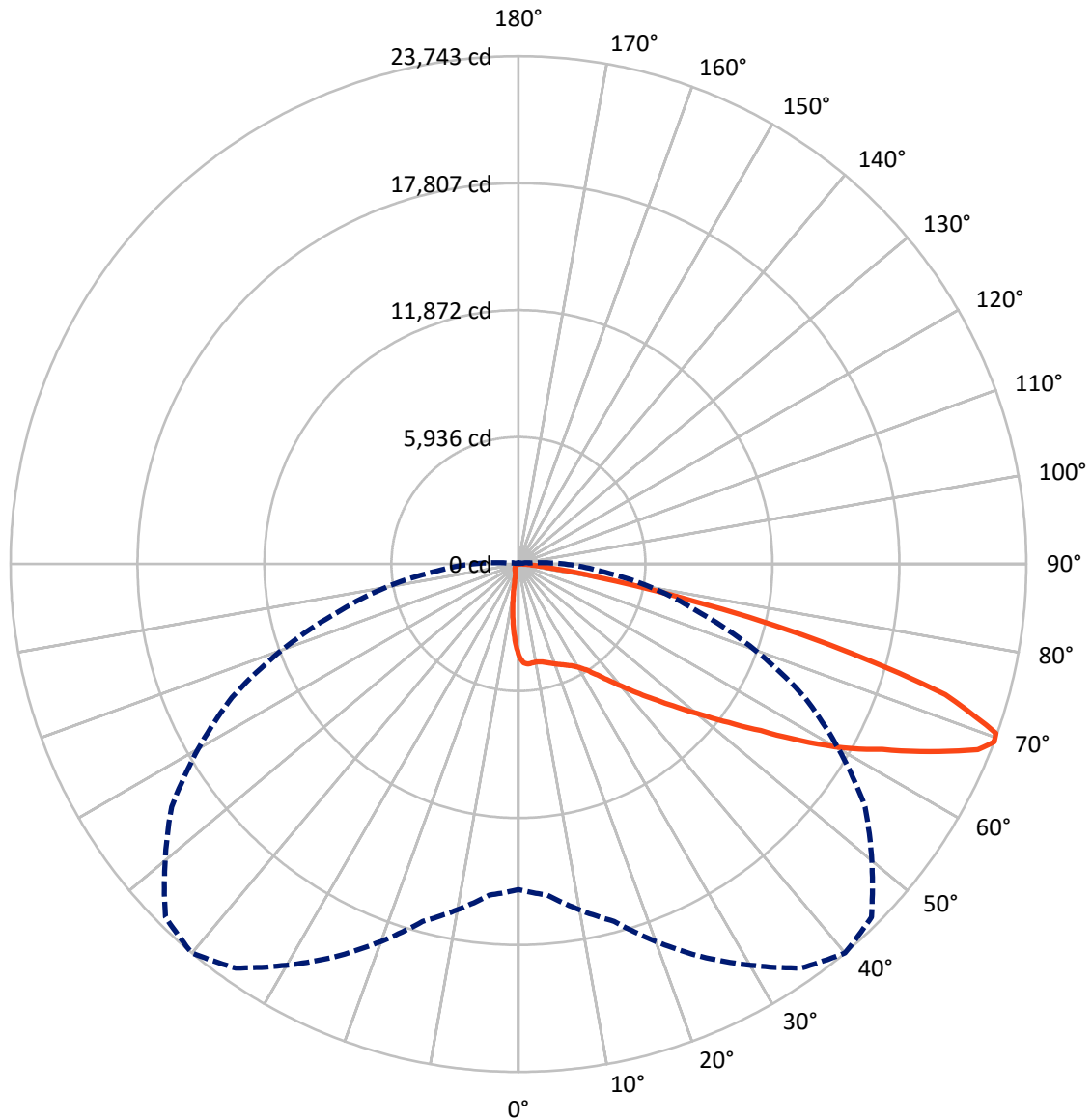


Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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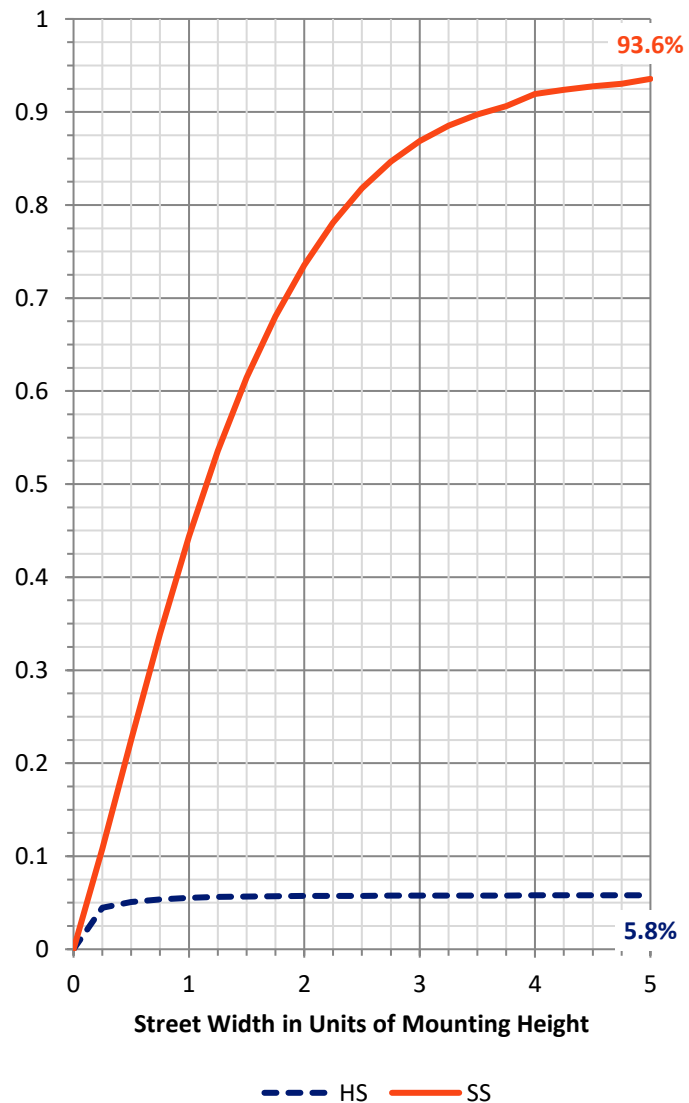
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1690.5	0.0	1690.5
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	27203.5	0.0	27203.5
	% Fixture	94.1	0.0	94.1
Total	Lumens	28894.0	0.0	28894.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.0	1.2
10°-20°	860.8	3.0
20°-30°	1449.8	5.0
30°-40°	2373.4	8.2
40°-50°	4109.4	14.2
50°-60°	6472.8	22.4
60°-70°	8453.2	29.3
70°-80°	4353.8	15.1
80°-90°	470.9	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°	28894.0	100.0
0°-180°	28894.0	100.0



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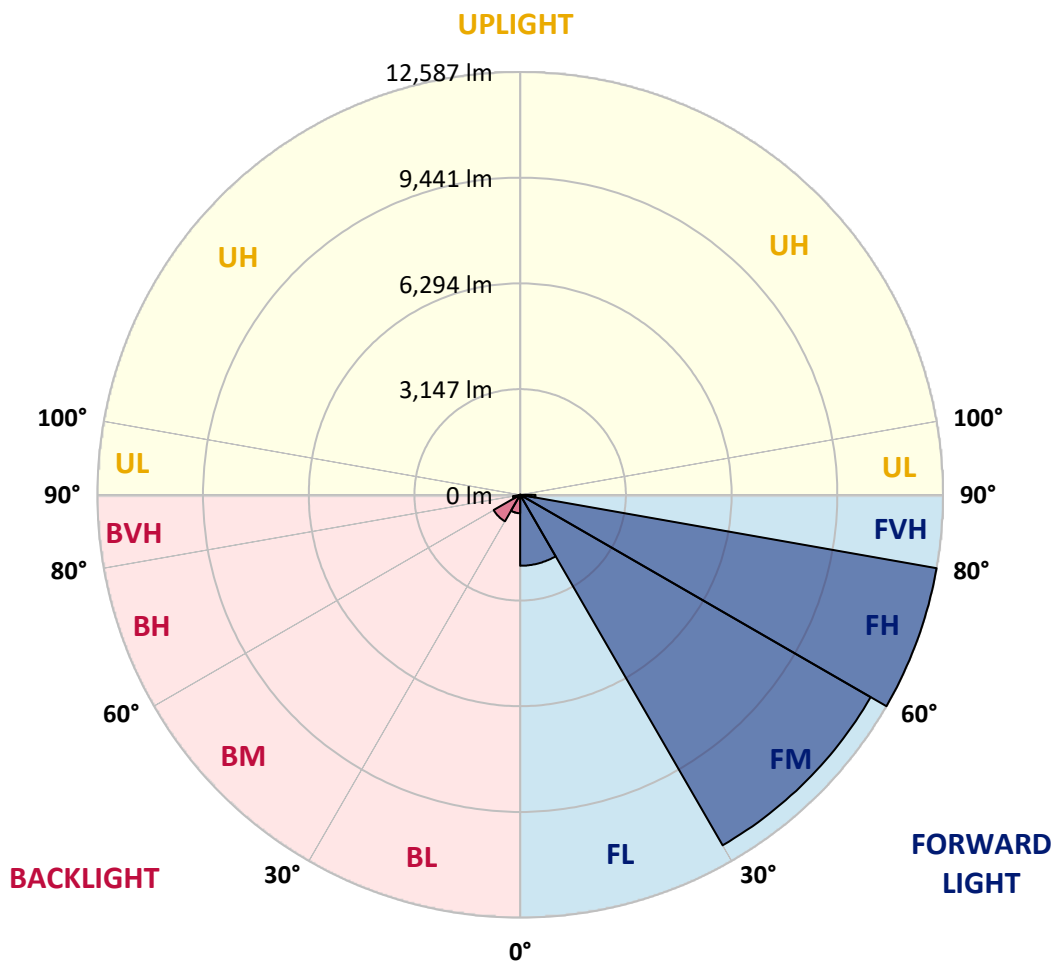
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2113.0	7.3			
FM	(30°-60°)	12047.0	41.7			
FH	(60°-80°)	12587.4	43.6			G5
FVH	(80°-90°)	456.2	1.6			G3/500
BL	(0°-30°)	547.6	1.9	B2/1000		
BM	(30°-60°)	908.6	3.1	B1/1000		
BH	(60°-80°)	219.5	0.8	B1/500		G1/500
BVH	(80°-90°)	14.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4316.9	4316.9	4316.9	4316.9	4316.9	4316.9	4316.9	4316.9	4316.9	4316.9	4316.9
2.5°	4740.0	4714.2	4698.7	4678.1	4652.3	4629.9	4621.3	4557.7	4497.5	4414.9	4320.4
5°	4827.7	4819.1	4791.6	4764.1	4733.1	4698.7	4679.8	4604.1	4518.1	4397.7	4232.6
7.5°	4836.3	4826.0	4791.6	4753.8	4710.8	4669.5	4636.8	4561.1	4482.0	4359.9	4158.7
10°	4822.6	4810.5	4784.7	4743.4	4690.1	4650.6	4617.9	4545.7	4478.6	4368.5	4144.9
12.5°	4807.1	4795.0	4783.0	4762.4	4715.9	4688.4	4660.9	4592.1	4531.9	4439.0	4194.8
15°	4822.6	4815.7	4829.4	4820.8	4795.0	4771.0	4743.4	4681.5	4626.5	4549.1	4286.0
17.5°	4887.9	4887.9	4930.9	4936.1	4912.0	4877.6	4838.0	4776.1	4729.7	4664.3	4394.3
20°	5041.0	5035.8	5090.9	5101.2	5042.7	4989.4	4930.9	4855.2	4819.1	4777.8	4500.9
22.5°	5304.1	5280.0	5312.7	5302.4	5187.2	5104.6	5032.4	4939.5	4920.6	4901.7	4619.6
25°	5646.4	5632.6	5655.0	5553.5	5350.6	5238.8	5152.8	5047.9	5047.9	5066.8	4753.8
27.5°	6143.4	6091.8	6016.2	5837.3	5532.9	5390.1	5297.2	5185.5	5214.7	5285.2	4930.9
30°	6652.5	6595.8	6422.1	6146.9	5754.7	5605.1	5496.8	5379.8	5448.6	5577.6	5168.3
32.5°	7154.7	7091.1	6845.1	6497.7	6072.9	5923.3	5818.4	5689.4	5804.6	6021.3	5515.7
35°	7641.5	7584.7	7300.9	6891.6	6496.0	6372.2	6275.9	6164.1	6312.0	6614.7	6005.8
37.5°	8188.4	8126.5	7780.8	7337.0	7010.3	6920.8	6850.3	6738.5	6996.5	7440.2	6688.6
40°	8860.8	8755.9	8289.8	7847.8	7605.3	7562.3	7514.2	7498.7	7899.4	8513.4	7598.5
42.5°	9631.4	9459.4	8823.0	8386.2	8258.9	8289.8	8277.8	8346.6	9029.4	9848.1	8706.1
45°	10401.9	10180.0	9416.4	8960.6	8977.8	9086.2	9153.2	9428.4	10444.9	11378.8	9897.9
47.5°	11055.4	10837.0	9985.7	9581.5	9787.9	10001.1	10183.4	10704.6	11899.9	12885.4	10825.0
50°	11614.4	11408.0	10589.3	10264.3	10728.6	11072.6	11368.4	12140.7	13465.0	14032.5	11475.1
52.5°	12071.9	11934.3	11215.4	11046.8	11803.6	12307.5	12740.9	13666.2	14851.2	14964.7	11980.7
55°	12517.3	12419.3	11887.8	11977.3	13066.0	13752.2	14300.8	15284.6	16044.8	15742.1	12465.7
57.5°	13029.9	12940.4	12654.9	13157.1	14725.7	15589.0	16187.6	16719.0	17095.7	16536.7	12923.2
60°	13552.7	13501.1	13508.0	14467.7	16631.3	17460.3	17790.5	17928.1	18127.6	17284.8	12949.0
62.5°	14051.5	14149.5	14483.2	15926.1	18456.1	19092.4	19259.3	19395.1	19161.2	17403.5	11963.5
65°	14895.9	15055.9	15852.2	17878.2	20463.2	21144.3	21316.3	20850.2	19324.6	15869.4	9731.1
67.5°	15308.7	15601.1	17021.7	19697.8	22410.1	23166.9	23103.2	20944.8	17341.6	12101.1	6244.9
69°	15222.7	15534.0	17291.7	20255.1	23056.8	23743.0	23338.8	19787.3	14773.8	8766.3	3833.6
70°	14882.2	15196.9	17152.4	20234.5	23139.3	23682.8	22902.0	18358.1	12491.5	6410.0	2397.5
72.5°	12427.9	12699.6	15227.9	18289.3	21316.3	20874.2	19159.5	12718.6	6086.7	1745.7	540.0
75°	7650.0	7801.4	10926.4	13778.0	16099.8	14964.7	12765.0	6327.5	1814.5	493.6	299.3
77.5°	4041.7	4110.5	5981.8	8121.3	10205.8	8444.6	6542.4	2468.0	835.9	309.6	216.7
80°	2388.9	2440.5	3221.3	3713.2	4416.7	3689.2	2615.9	1515.2	598.5	194.3	192.6
82.5°	1367.3	1400.0	2335.6	2063.9	1740.5	1486.0	1302.0	1436.1	359.5	130.7	199.5
85°	502.2	509.1	1314.0	1570.3	1035.4	615.7	646.7	1190.2	96.3	82.6	156.5
87.5°	233.9	228.7	675.9	961.4	605.4	390.4	503.9	261.4	37.8	53.3	43.0
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°	4316.9	4316.9	4316.9	4316.9	4316.9	4316.9	4316.9	4316.9	4316.9	4316.9	4316.9
2.5°	4265.3	4201.7	4086.4	3967.8	3847.4	3754.5	3663.4	3591.1	3567.0	3522.3	3525.8
5°	4134.6	4017.7	3776.9	3532.6	3278.1	3068.3	2870.5	2710.5	2633.1	2554.0	2554.0
7.5°	4021.1	3850.8	3474.2	3076.9	2665.8	2320.1	2008.8	1774.9	1645.9	1542.7	1541.0
10°	3978.1	3747.6	3221.3	2652.1	2079.3	1608.1	1238.3	1001.0	878.9	799.7	796.3
12.5°	3997.0	3711.5	3027.0	2259.9	1541.0	1033.7	717.2	564.1	512.5	488.4	488.4
15°	4052.0	3701.2	2832.7	1876.4	1088.7	646.7	476.4	435.1	431.7	431.7	431.7
17.5°	4119.1	3704.6	2633.1	1503.2	741.3	462.6	411.1	405.9	409.3	409.3	409.3
20°	4187.9	3706.4	2418.2	1157.5	522.8	402.5	387.0	385.3	388.7	388.7	390.4
22.5°	4272.2	3715.0	2203.2	865.1	431.7	380.1	368.1	368.1	369.8	369.8	368.1
25°	4368.5	3732.2	1979.6	641.5	393.9	364.6	354.3	352.6	354.3	352.6	350.9
27.5°	4488.9	3756.2	1730.2	502.2	376.7	349.1	340.5	340.5	338.8	337.1	335.4
30°	4640.3	3783.7	1449.9	426.5	359.5	335.4	326.8	325.1	323.3	319.9	319.9
32.5°	4870.7	3843.9	1173.0	387.0	340.5	316.5	309.6	309.6	306.1	302.7	301.0
35°	5225.0	3962.6	925.3	362.9	319.9	295.8	287.2	287.2	283.8	282.1	280.3
37.5°	5715.2	4143.2	718.9	340.5	299.3	273.5	264.9	263.1	259.7	256.3	254.5
40°	6367.0	4366.8	565.8	319.9	278.6	251.1	244.2	240.8	233.9	228.7	228.7
42.5°	7185.7	4621.3	459.2	297.5	254.5	230.5	225.3	220.1	208.1	202.9	201.2
45°	8042.2	4850.1	388.7	271.7	230.5	209.8	206.4	197.8	182.3	177.1	177.1
47.5°	8659.6	4903.4	342.3	247.7	208.1	187.5	185.7	170.3	156.5	153.1	151.3
50°	9044.9	4798.5	304.4	223.6	187.5	166.8	161.7	142.8	134.2	130.7	129.0
52.5°	9304.6	4611.0	273.5	202.9	168.5	147.9	135.9	122.1	115.2	111.8	111.8
55°	9512.7	4346.2	242.5	184.0	153.1	132.4	115.2	104.9	98.0	94.6	94.6
57.5°	9571.2	3986.7	211.5	168.5	137.6	117.0	98.0	91.2	82.6	80.8	80.8
60°	9146.4	3338.3	187.5	149.6	123.8	101.5	86.0	77.4	68.8	67.1	65.4
62.5°	8026.7	2583.3	165.1	132.4	108.4	87.7	74.0	63.6	56.8	56.8	56.8
65°	6122.8	1731.9	144.5	115.2	94.6	74.0	63.6	51.6	48.2	48.2	49.9
67.5°	3665.1	942.5	123.8	98.0	80.8	61.9	53.3	44.7	43.0	44.7	44.7
69°	2148.1	553.8	111.8	87.7	70.5	55.0	46.4	39.6	43.0	44.7	44.7
70°	1326.0	373.2	103.2	79.1	63.6	49.9	43.0	37.8	41.3	43.0	43.0
72.5°	369.8	192.6	82.6	61.9	51.6	41.3	34.4	34.4	39.6	41.3	41.3
75°	240.8	142.8	63.6	46.4	39.6	32.7	29.2	32.7	37.8	39.6	39.6
77.5°	199.5	117.0	51.6	37.8	32.7	31.0	27.5	29.2	34.4	36.1	36.1
80°	182.3	82.6	41.3	34.4	29.2	27.5	25.8	24.1	31.0	32.7	32.7
82.5°	173.7	65.4	36.1	31.0	27.5	24.1	22.4	24.1	27.5	29.2	31.0
85°	108.4	43.0	32.7	29.2	24.1	22.4	22.4	22.4	25.8	27.5	27.5
87.5°	39.6	34.4	29.2	24.1	20.6	20.6	20.6	20.6	22.4	25.8	25.8
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)