

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: P193664

Luminaire Tested: **GLEON-AF-06-LED-E1-SL3-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193664
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-06-LED-E1-SL3-8030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA 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: 20052 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 249
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

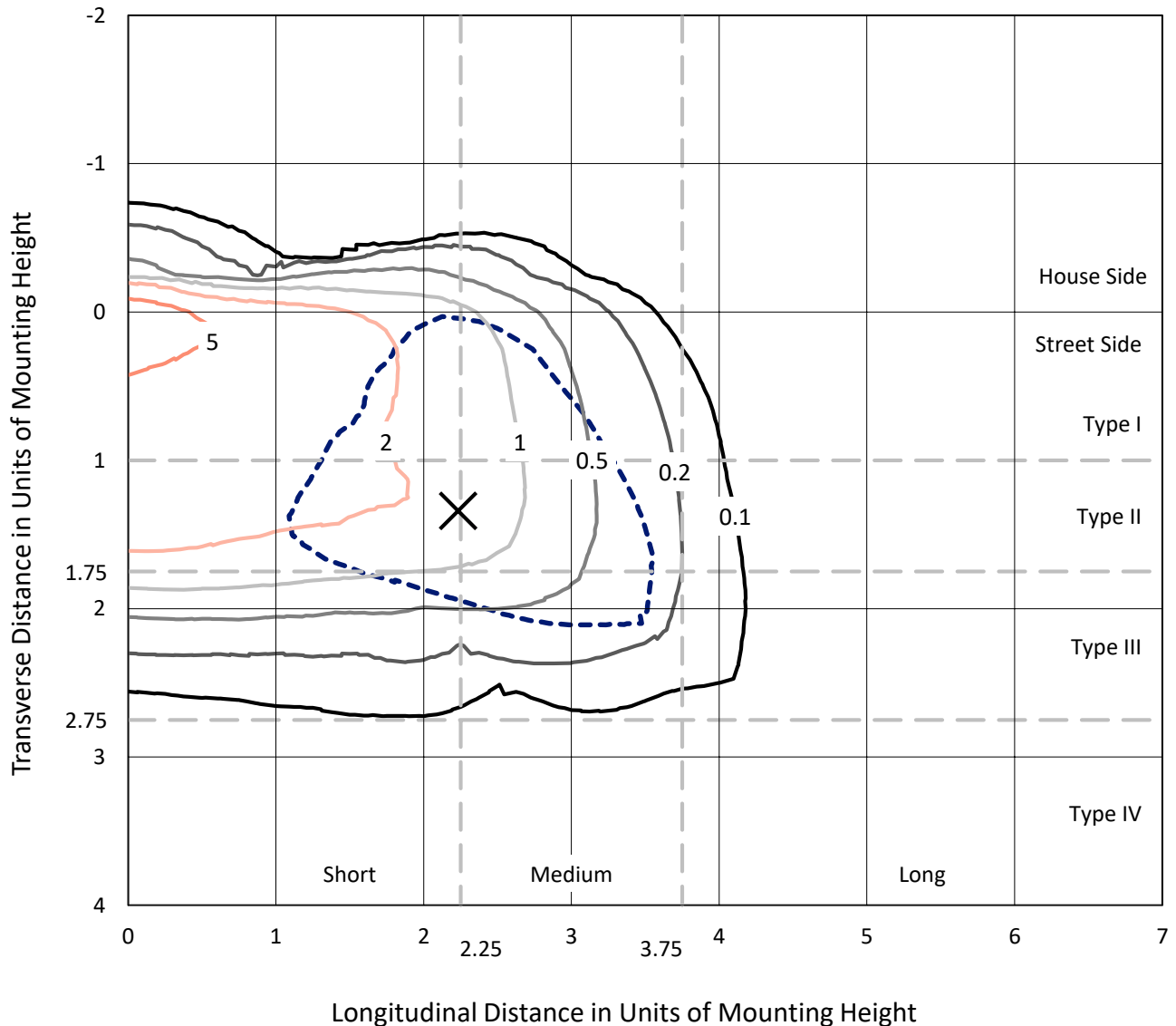


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

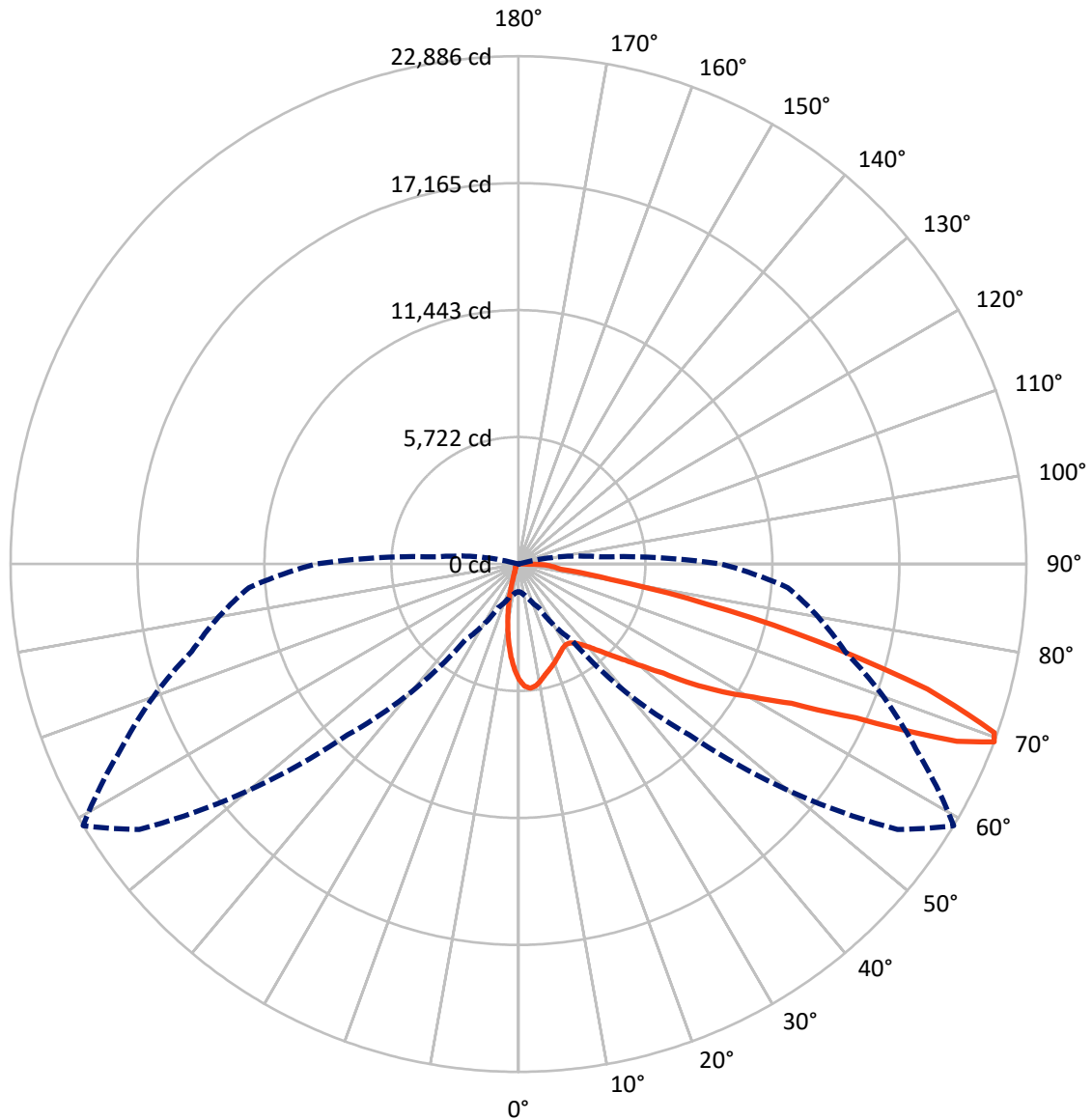


Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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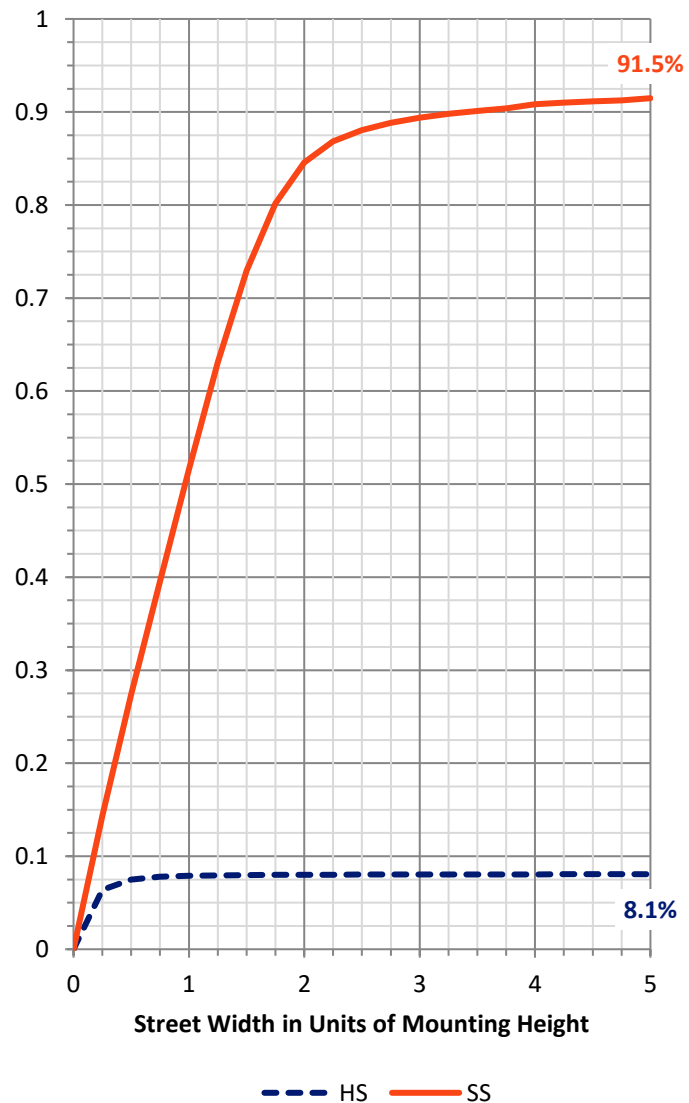
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1633.0	0.0	1633.0
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	18419.0	0.0	18419.0
	% Fixture	91.9	0.0	91.9
Total	Lumens	20052.0	0.0	20052.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.7	2.1
10°-20°	875.4	4.4
20°-30°	1177.9	5.9
30°-40°	1710.3	8.5
40°-50°	2847.8	14.2
50°-60°	4442.4	22.2
60°-70°	5497.2	27.4
70°-80°	2785.9	13.9
80°-90°	291.5	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°	20052.0	100.0
0°-180°	20052.0	100.0

Coefficient of Utilization



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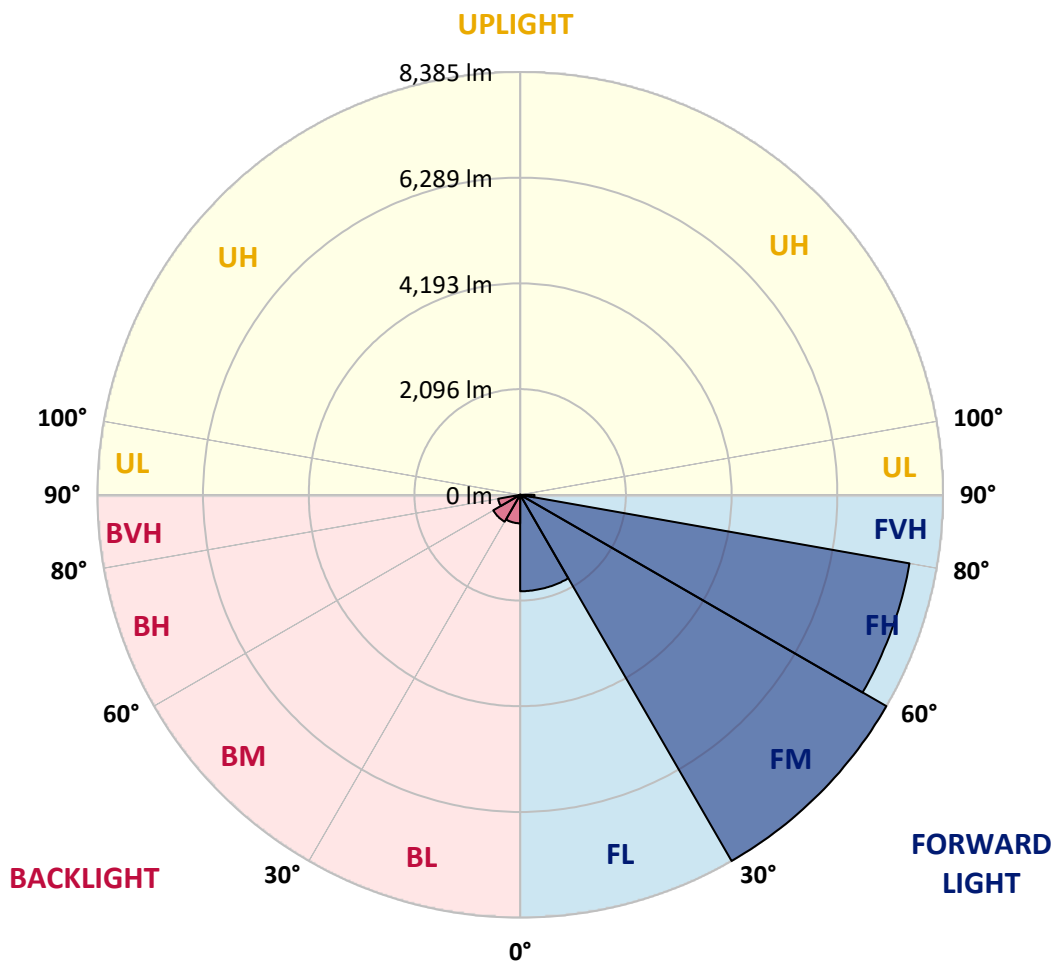
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1911.7	9.5			
FM	(30°-60°)	8385.2	41.8			
FH	(60°-80°)	7839.6	39.1			G4/12000
FVH	(80°-90°)	282.5	1.4			G3/500
BL	(0°-30°)	565.2	2.8	B2/1000		
BM	(30°-60°)	615.3	3.1	B1/1000		
BH	(60°-80°)	443.5	2.2	B1/500		G1/500
BVH	(80°-90°)	9.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5219.3	5219.3	5219.3	5219.3	5219.3	5219.3	5219.3	5219.3	5219.3	5219.3	5219.3
2.5°	5720.4	5718.2	5693.2	5681.9	5661.5	5618.4	5551.5	5516.3	5459.6	5361.0	5228.3
5°	5668.3	5695.5	5710.2	5711.4	5726.1	5710.2	5650.1	5620.7	5542.4	5383.7	5145.6
7.5°	5314.5	5324.7	5366.7	5402.9	5473.2	5540.1	5561.7	5549.2	5502.7	5332.6	5016.3
10°	4935.8	4946.0	4995.9	5043.5	5138.8	5241.9	5350.8	5373.5	5392.7	5260.1	4891.6
12.5°	4609.2	4619.4	4670.5	4732.8	4843.9	4970.9	5139.9	5177.3	5262.3	5190.9	4791.8
15°	4328.0	4332.6	4382.5	4459.6	4592.2	4755.5	4947.1	5007.2	5137.6	5142.2	4704.5
17.5°	4088.8	4100.1	4130.7	4204.4	4349.6	4551.4	4774.8	4861.0	5014.0	5101.3	4619.4
20°	3942.5	3953.8	3952.7	3993.5	4123.9	4339.4	4602.4	4705.6	4891.6	5059.4	4543.5
22.5°	3914.2	3914.2	3884.7	3879.0	3956.1	4136.4	4423.3	4549.1	4781.6	5041.2	4490.2
25°	4015.1	4010.5	3936.8	3876.7	3880.1	3987.9	4249.8	4399.5	4688.6	5053.7	4461.8
27.5°	4228.2	4222.6	4129.6	4015.1	3923.2	3922.1	4118.3	4279.3	4614.9	5112.7	4473.2
30°	4523.1	4520.8	4419.9	4275.9	4109.2	3956.1	4072.9	4219.2	4567.3	5219.3	4499.2
32.5°	4845.1	4841.7	4765.7	4613.8	4402.9	4109.2	4120.5	4243.0	4580.9	5361.0	4562.7
35°	5186.4	5180.7	5147.8	5015.2	4782.7	4391.5	4277.0	4372.2	4667.1	5573.0	4687.5
37.5°	5556.0	5561.7	5585.5	5458.5	5214.7	4787.2	4538.9	4603.6	4840.5	5861.0	4890.4
40°	6101.4	6100.3	6108.2	5941.5	5706.8	5271.4	4905.2	4925.6	5130.8	6243.2	5198.8
42.5°	7091.3	7022.1	6812.4	6472.2	6236.4	5824.8	5366.7	5345.1	5485.7	6716.0	5630.9
45°	8421.3	8273.9	7729.7	7077.7	6776.1	6448.4	5934.7	5865.6	5955.1	7284.1	6163.8
47.5°	9565.4	9412.4	8642.4	7708.1	7348.7	7040.3	6600.3	6475.6	6505.1	7920.2	6839.6
50°	9954.3	9879.5	9207.1	8256.9	7903.2	7785.2	7372.5	7220.6	7178.6	8656.1	7623.1
52.5°	9819.4	9813.7	9365.9	8613.0	8411.1	8556.3	8344.2	8168.5	8014.3	9431.6	8420.2
55°	9602.8	9631.2	9430.5	8924.8	8918.0	9260.4	9673.1	9526.9	9080.1	10274.1	9107.3
57.5°	9005.3	9126.6	9394.2	9514.4	9793.3	10143.7	10779.8	10866.0	10337.6	10919.3	9677.7
60°	7306.7	7573.2	8448.6	9599.4	10921.6	11794.6	12115.5	12189.2	11369.4	11455.6	10447.6
62.5°	5186.4	5458.5	6568.6	8515.5	10938.6	13963.8	14105.5	13816.4	12505.6	12250.5	11775.4
65°	2753.1	2962.8	3869.9	6146.8	9483.8	14467.2	17585.4	16723.6	14510.3	13814.1	13490.9
67.5°	1408.3	1471.8	1832.4	3008.2	6519.8	12850.3	20704.7	21311.3	17965.2	15365.2	13408.2
69°	1246.1	1283.6	1522.8	2174.8	4175.0	10884.1	20856.6	22886.3	19773.8	15236.0	12184.7
70°	1206.5	1239.3	1457.0	1968.4	3263.3	9127.7	20274.9	22747.9	20236.4	14743.9	11270.8
72.5°	1023.9	1052.2	1297.2	1739.4	2652.1	4531.0	16469.6	19276.0	18159.1	12282.2	8158.3
75°	684.9	777.8	1245.0	1630.5	2467.3	2573.9	10858.1	13929.7	12939.9	8284.1	4249.8
77.5°	164.4	176.9	351.5	1297.2	2256.4	2265.5	5584.4	8659.5	7063.0	2952.6	1004.6
80°	88.4	85.0	98.6	257.4	2101.1	2126.0	2513.8	4203.3	2521.8	489.8	331.1
82.5°	62.4	59.0	63.5	107.7	661.1	1936.7	1818.7	1902.7	1045.4	188.2	148.5
85°	22.7	21.5	35.2	97.5	207.5	1113.5	1868.6	1569.3	847.0	86.2	108.9
87.5°	7.9	6.8	13.6	53.3	63.5	474.0	1153.2	1186.0	333.4	52.2	51.0
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°	5219.3	5219.3	5219.3	5219.3	5219.3	5219.3	5219.3	5219.3	5219.3	5219.3	5219.3
2.5°	5172.8	5102.5	4973.2	4840.5	4718.1	4570.7	4497.0	4424.4	4393.8	4382.5	4329.2
5°	5023.1	4904.0	4629.6	4354.1	4100.1	3830.3	3652.2	3509.4	3425.5	3384.6	3320.0
7.5°	4831.5	4636.4	4220.3	3795.1	3399.4	3009.3	2720.2	2497.9	2344.9	2271.2	2204.3
10°	4645.5	4385.9	3794.0	3214.6	2677.1	2160.0	1760.9	1471.8	1287.0	1201.9	1147.5
12.5°	4478.8	4142.1	3382.4	2648.7	1974.1	1368.6	962.7	732.5	618.0	578.3	559.0
15°	4330.3	3917.6	2993.4	2111.3	1336.8	782.4	526.1	447.9	429.7	429.7	427.5
17.5°	4189.7	3697.6	2618.1	1606.7	839.1	478.5	400.3	390.1	390.1	394.6	394.6
20°	4054.8	3487.8	2255.3	1153.2	528.4	379.9	361.7	359.4	361.7	367.4	367.4
22.5°	3939.1	3297.3	1916.3	791.4	392.3	342.4	333.4	330.0	331.1	334.5	336.8
25°	3852.9	3136.3	1596.5	536.3	337.9	311.8	301.6	295.9	291.4	291.4	293.7
27.5°	3798.5	3000.3	1287.0	390.1	303.9	283.5	267.6	258.5	248.3	242.7	244.9
30°	3758.8	2871.0	996.7	318.6	272.1	251.7	231.3	216.6	201.8	195.0	197.3
32.5°	3744.1	2766.7	745.0	281.2	243.8	221.1	196.2	176.9	161.0	155.3	156.5
35°	3783.8	2683.9	545.4	254.0	221.1	192.8	164.4	142.9	130.4	127.0	128.1
37.5°	3888.1	2639.7	408.2	231.3	200.7	168.9	137.2	116.8	108.9	108.9	110.0
40°	4085.4	2638.5	327.7	215.4	182.6	146.3	113.4	98.6	94.1	96.4	97.5
42.5°	4373.4	2698.6	285.7	200.7	166.7	124.7	94.1	83.9	82.8	85.0	86.2
45°	4766.8	2808.6	263.1	188.2	149.7	104.3	79.4	72.6	72.6	76.0	77.1
47.5°	5248.7	2969.6	243.8	175.8	132.7	87.3	68.0	63.5	64.6	68.0	69.2
50°	5829.3	3172.6	224.5	162.1	120.2	72.6	59.0	55.6	56.7	61.2	62.4
52.5°	6490.3	3445.9	208.6	149.7	104.3	60.1	49.9	47.6	49.9	54.4	55.6
55°	7057.3	3690.8	189.4	139.5	83.9	49.9	40.8	40.8	43.1	48.8	49.9
57.5°	7602.7	3947.0	172.4	120.2	65.8	39.7	34.0	35.2	38.6	44.2	45.4
60°	8403.2	4381.3	151.9	100.9	49.9	31.7	28.3	29.5	34.0	39.7	40.8
62.5°	9762.7	5042.4	131.5	83.9	38.6	24.9	22.7	24.9	30.6	37.4	38.6
65°	10989.6	5311.1	107.7	70.3	29.5	19.3	19.3	22.7	29.5	36.3	37.4
67.5°	10305.9	4470.9	83.9	55.6	22.7	14.7	15.9	21.5	28.3	36.3	37.4
69°	9114.1	3655.6	71.4	44.2	19.3	13.6	14.7	21.5	28.3	35.2	36.3
70°	8185.5	3086.4	63.5	37.4	17.0	13.6	14.7	20.4	28.3	35.2	36.3
72.5°	5482.3	1666.8	51.0	27.2	15.9	12.5	12.5	20.4	27.2	34.0	35.2
75°	2356.2	460.4	40.8	19.3	13.6	11.3	11.3	19.3	26.1	32.9	35.2
77.5°	430.9	116.8	32.9	17.0	13.6	11.3	10.2	18.1	24.9	31.7	32.9
80°	171.2	57.8	26.1	14.7	12.5	10.2	9.1	17.0	23.8	30.6	31.7
82.5°	103.2	32.9	21.5	13.6	12.5	9.1	7.9	14.7	22.7	29.5	30.6
85°	83.9	22.7	17.0	13.6	11.3	9.1	6.8	13.6	20.4	28.3	29.5
87.5°	40.8	15.9	15.9	12.5	11.3	9.1	6.8	12.5	19.3	27.2	28.3
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)