

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: P269475

Luminaire Tested: **GLEON-AF-07-LED-E1-SL3-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269475
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-07-LED-E1-SL3-7027-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA 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: 20589.5 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - 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

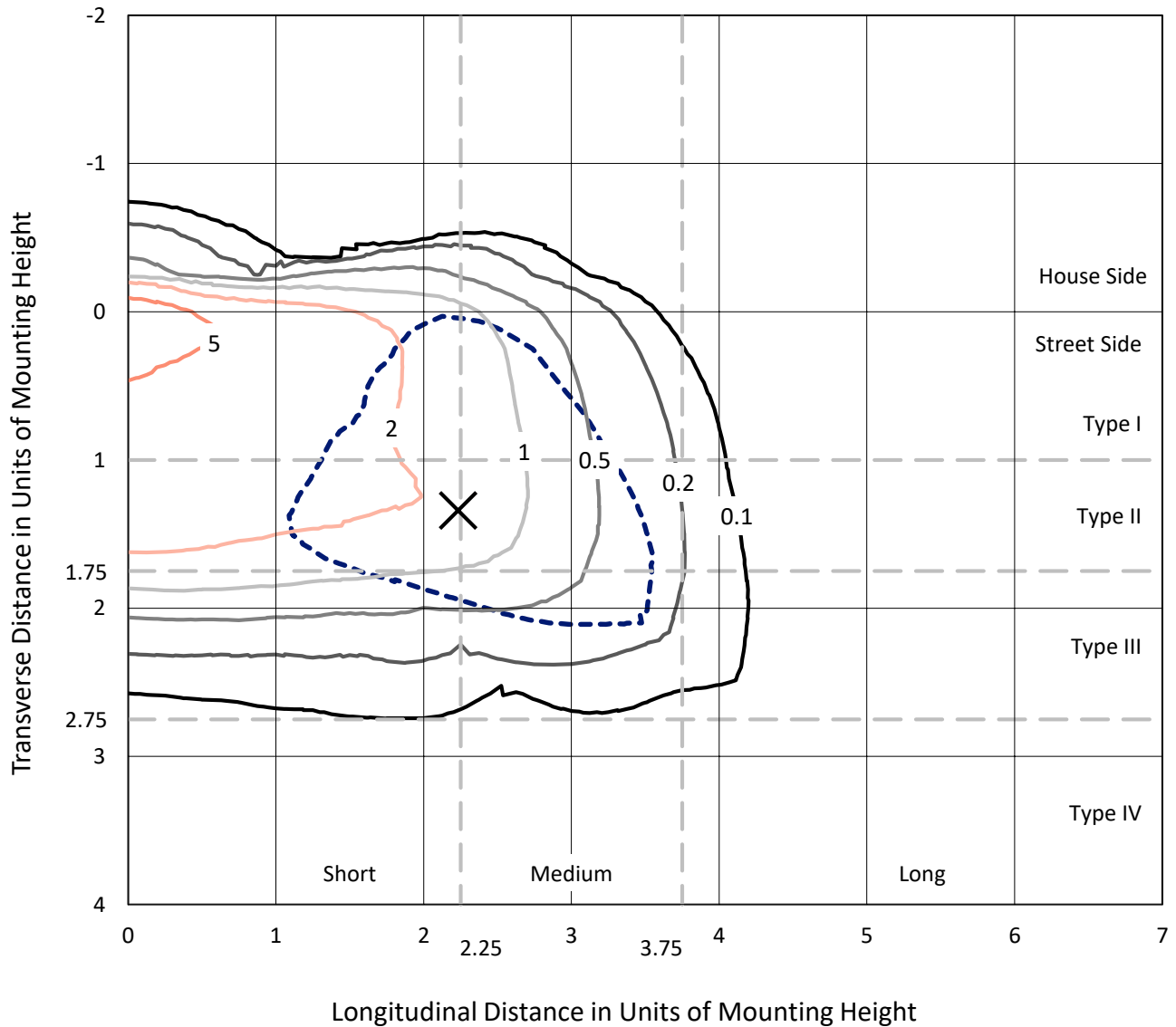


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

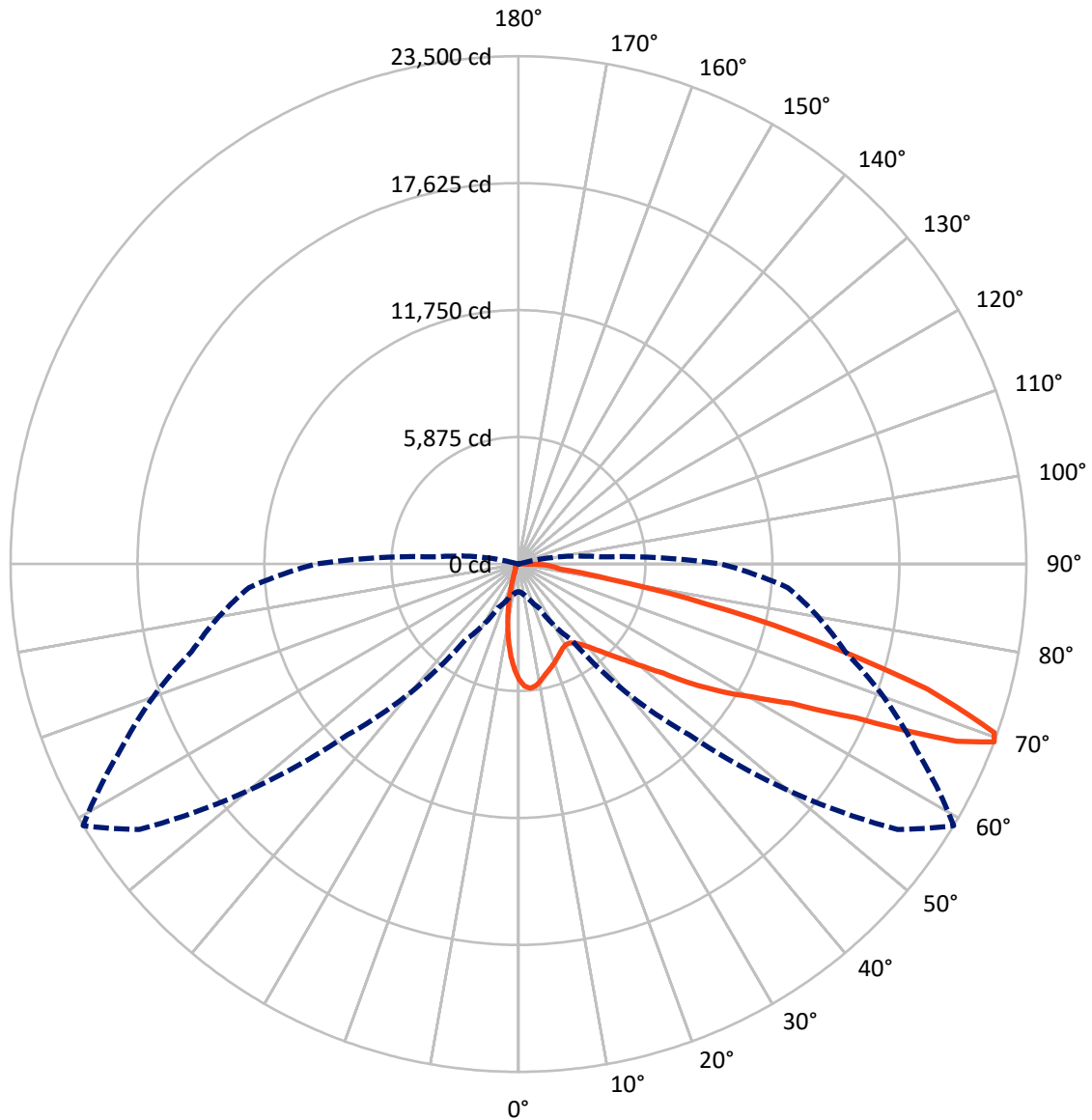


Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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

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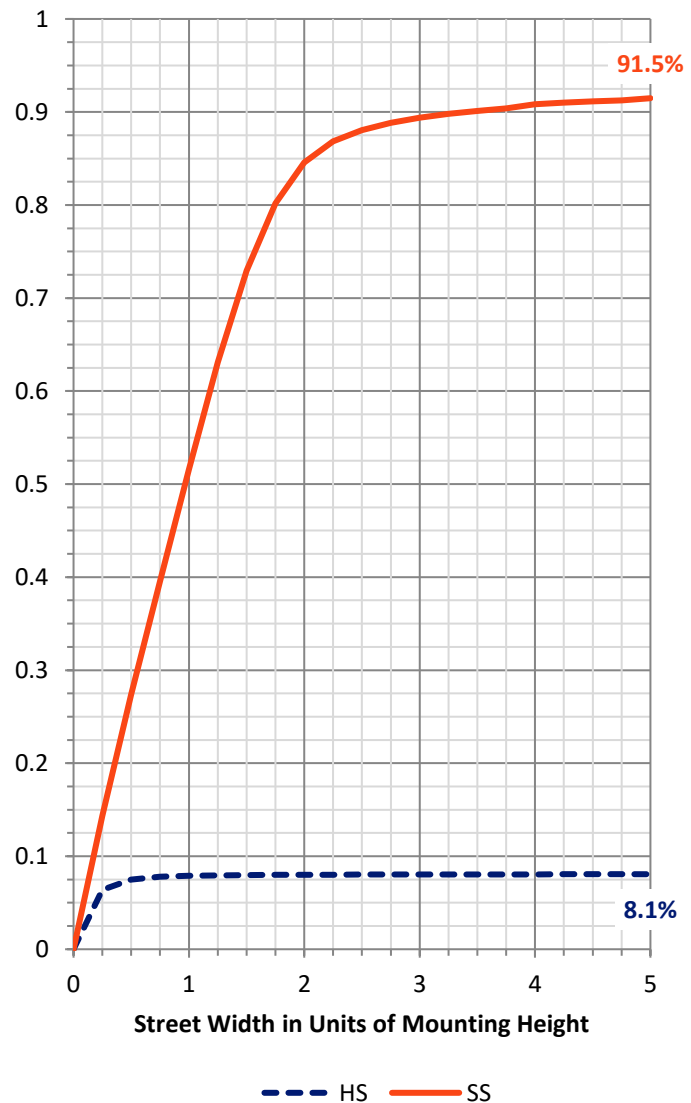
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1676.7	0.0	1676.7
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	18912.8	0.0	18912.8
	% Fixture	91.9	0.0	91.9
Total	Lumens	20589.5	0.0	20589.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	435.0	2.1
10°-20°	898.8	4.4
20°-30°	1209.5	5.9
30°-40°	1756.1	8.5
40°-50°	2924.1	14.2
50°-60°	4561.5	22.2
60°-70°	5644.5	27.4
70°-80°	2860.6	13.9
80°-90°	299.3	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°	20589.5	100.0
0°-180°	20589.5	100.0



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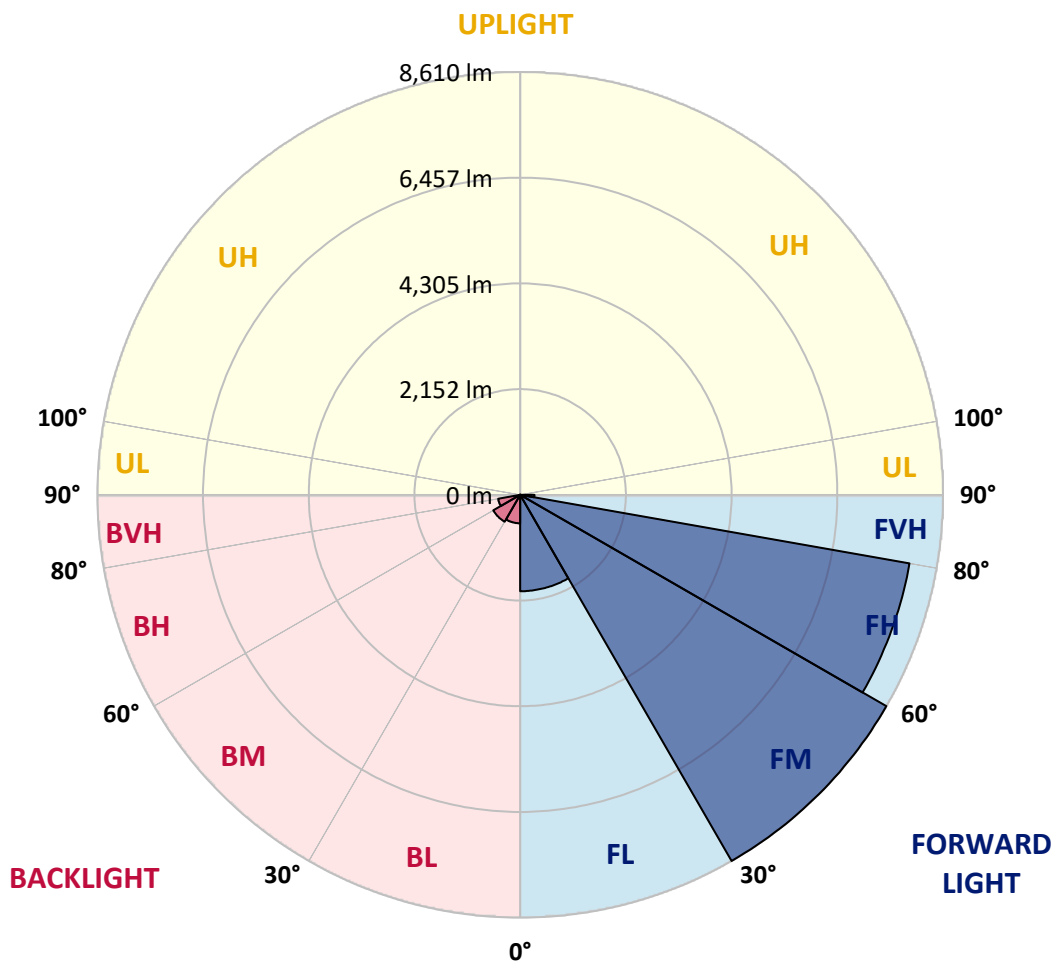
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1963.0	9.5			
FM	(30°-60°)	8609.9	41.8			
FH	(60°-80°)	8049.7	39.1			G4/12000
FVH	(80°-90°)	290.1	1.4			G3/500
BL	(0°-30°)	580.4	2.8	B2/1000		
BM	(30°-60°)	631.8	3.1	B1/1000		
BH	(60°-80°)	455.4	2.2	B1/500		G1/500
BVH	(80°-90°)	9.2	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°	5359.2	5359.2	5359.2	5359.2	5359.2	5359.2	5359.2	5359.2	5359.2	5359.2	5359.2
2.5°	5873.7	5871.4	5845.8	5834.2	5813.2	5768.9	5700.4	5664.3	5606.1	5504.8	5368.5
5°	5820.2	5848.1	5863.2	5864.4	5879.5	5863.2	5801.7	5771.3	5691.0	5528.0	5283.6
7.5°	5456.9	5467.4	5510.6	5547.8	5619.9	5688.6	5710.7	5697.9	5650.2	5475.6	5150.7
10°	5068.1	5078.6	5129.9	5178.6	5276.6	5382.5	5494.3	5517.5	5537.3	5401.1	5022.8
12.5°	4732.8	4743.3	4795.6	4859.7	4973.7	5104.2	5277.6	5316.1	5403.5	5330.1	4920.2
15°	4444.1	4448.6	4499.9	4579.1	4715.4	4882.9	5079.7	5141.4	5275.3	5280.0	4830.5
17.5°	4198.4	4210.0	4241.4	4317.2	4466.2	4673.4	4902.8	4991.3	5148.5	5238.0	4743.3
20°	4048.2	4059.8	4058.6	4100.7	4234.5	4455.8	4725.9	4831.8	5022.8	5195.0	4665.3
22.5°	4019.0	4019.0	3988.8	3982.9	4062.1	4247.2	4541.8	4671.0	4909.7	5176.4	4610.6
25°	4122.7	4118.0	4042.4	3980.7	3984.2	4094.7	4363.6	4517.3	4814.2	5189.1	4581.4
27.5°	4341.6	4335.8	4240.3	4122.7	4028.4	4027.2	4228.6	4394.0	4738.6	5249.8	4593.0
30°	4644.2	4642.0	4538.3	4390.5	4219.3	4062.1	4182.1	4332.3	4689.7	5359.2	4619.9
32.5°	4975.0	4971.5	4893.4	4737.4	4520.9	4219.3	4230.9	4356.7	4703.6	5504.8	4685.0
35°	5325.4	5319.7	5285.7	5149.7	4910.9	4509.2	4391.6	4489.5	4792.2	5722.5	4813.1
37.5°	5705.0	5710.7	5735.1	5604.9	5354.4	4915.5	4660.5	4727.1	4970.3	6018.1	5021.5
40°	6265.0	6263.8	6272.0	6100.7	5859.9	5412.7	5036.6	5057.5	5268.4	6410.6	5338.2
42.5°	7281.4	7210.3	6995.0	6645.8	6403.5	5980.8	5510.6	5488.5	5632.8	6896.0	5781.9
45°	8647.1	8495.7	7936.9	7267.4	6957.7	6621.2	6093.8	6022.7	6114.9	7479.3	6329.0
47.5°	9821.9	9664.7	8874.1	7914.7	7545.8	7229.0	6777.3	6649.2	6679.4	8132.4	7022.9
50°	10221.2	10144.3	9453.9	8478.3	8115.0	7993.9	7570.1	7414.2	7371.0	8888.1	7827.4
52.5°	10082.7	10076.7	9617.0	8843.9	8636.7	8785.7	8567.9	8387.5	8229.2	9684.4	8645.9
55°	9860.2	9889.4	9683.3	9164.0	9157.1	9508.6	9932.5	9782.3	9323.5	10549.5	9351.4
57.5°	9246.8	9371.3	9646.0	9769.4	10055.8	10415.6	11068.7	11157.3	10614.7	11211.9	9937.1
60°	7502.6	7776.2	8675.0	9856.7	11214.4	12110.8	12440.3	12515.9	11674.3	11762.6	10727.6
62.5°	5325.4	5604.9	6744.7	8743.7	11231.8	14338.0	14483.6	14186.8	12840.8	12578.8	12090.9
65°	2826.8	3042.3	3973.7	6311.5	9737.9	14855.0	18056.8	17171.9	14899.3	14184.3	13852.6
67.5°	1446.0	1511.2	1881.5	3088.8	6694.6	13194.8	21259.6	21882.6	18446.9	15777.1	13767.6
69°	1279.5	1318.0	1563.6	2233.0	4286.9	11176.0	21415.8	23499.8	20303.9	15644.4	12511.4
70°	1238.9	1272.5	1496.0	2021.1	3350.8	9372.5	20818.4	23357.6	20778.9	15139.0	11573.0
72.5°	1051.3	1080.4	1331.9	1786.0	2723.2	4652.4	16911.1	19792.7	18645.8	12611.5	8377.0
75°	703.3	798.8	1278.4	1674.3	2533.5	2643.0	11149.1	14303.2	13286.7	8506.2	4363.6
77.5°	168.8	181.6	360.8	1331.9	2316.9	2326.3	5734.2	8891.6	7252.2	3031.8	1031.6
80°	90.8	87.3	101.2	264.3	2157.4	2183.1	2581.2	4315.9	2589.4	503.1	340.0
82.5°	64.0	60.5	65.1	110.6	678.8	1988.6	1867.4	1953.6	1073.5	193.2	152.5
85°	23.3	22.1	36.1	100.2	213.1	1143.4	1918.7	1611.4	869.6	88.6	111.7
87.5°	8.2	6.9	14.0	54.7	65.1	486.7	1184.1	1217.8	342.3	53.5	52.5
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°	5359.2	5359.2	5359.2	5359.2	5359.2	5359.2	5359.2	5359.2	5359.2	5359.2	5359.2
2.5°	5311.4	5239.3	5106.5	4970.3	4844.6	4693.3	4617.5	4543.0	4511.6	4499.9	4445.3
5°	5157.8	5035.4	4753.7	4470.9	4210.0	3932.9	3750.2	3603.5	3517.3	3475.4	3409.0
7.5°	4961.0	4760.7	4333.5	3896.8	3490.5	3090.0	2793.1	2564.9	2407.7	2332.0	2263.4
10°	4770.0	4503.5	3895.7	3300.7	2748.9	2217.9	1808.1	1511.2	1321.4	1234.1	1178.2
12.5°	4599.0	4253.1	3473.0	2719.8	2027.0	1405.3	988.5	752.2	634.6	593.8	573.9
15°	4446.4	4022.6	3073.7	2167.9	1372.7	803.4	540.2	459.9	441.2	441.2	438.9
17.5°	4302.1	3796.6	2688.3	1649.7	861.6	491.4	411.0	400.6	400.6	405.1	405.1
20°	4163.5	3581.4	2315.7	1184.1	542.5	390.0	371.4	369.1	371.4	377.2	377.2
22.5°	4044.7	3385.7	1967.6	812.6	402.8	351.5	342.3	338.8	340.0	343.4	345.8
25°	3956.2	3220.5	1639.2	550.8	346.9	320.2	309.6	303.8	299.2	299.2	301.6
27.5°	3900.4	3080.6	1321.4	400.6	312.0	291.1	274.8	265.4	254.9	249.2	251.4
30°	3859.6	2948.0	1023.3	327.2	279.5	258.4	237.5	222.4	207.2	200.2	202.6
32.5°	3844.4	2840.8	764.9	288.7	250.3	227.0	201.4	181.6	165.3	159.4	160.6
35°	3885.2	2755.8	560.1	260.8	227.0	197.9	168.8	146.8	133.8	130.4	131.5
37.5°	3992.2	2710.5	419.1	237.5	206.2	173.6	140.9	120.0	111.7	111.7	112.9
40°	4194.8	2709.3	336.4	221.3	187.4	150.1	116.4	101.2	96.7	99.0	100.2
42.5°	4490.5	2771.0	293.3	206.2	171.1	128.1	96.7	86.1	85.0	87.3	88.6
45°	4894.7	2883.9	270.1	193.2	153.7	107.1	81.4	74.5	74.5	78.1	79.2
47.5°	5389.4	3049.2	250.3	180.5	136.3	89.7	69.9	65.1	66.4	69.9	71.1
50°	5985.5	3257.7	230.5	166.5	123.3	74.5	60.5	57.0	58.2	62.9	64.0
52.5°	6664.3	3538.2	214.2	153.7	107.1	61.8	51.3	48.9	51.3	55.9	57.0
55°	7246.4	3789.7	194.5	143.2	86.1	51.3	42.0	42.0	44.2	50.0	51.3
57.5°	7806.5	4052.9	177.0	123.3	67.6	40.8	34.9	36.1	39.5	45.5	46.5
60°	8628.5	4498.7	156.0	103.7	51.3	32.6	29.1	30.3	34.9	40.8	42.0
62.5°	10024.5	5177.6	135.0	86.1	39.5	25.6	23.3	25.6	31.4	38.4	39.5
65°	11284.1	5453.5	110.6	72.1	30.3	19.9	19.9	23.3	30.3	37.3	38.4
67.5°	10582.2	4590.8	86.1	57.0	23.3	15.1	16.3	22.1	29.1	37.3	38.4
69°	9358.5	3753.7	73.3	45.5	19.9	14.0	15.1	22.1	29.1	36.1	37.3
70°	8404.9	3169.2	65.1	38.4	17.4	14.0	15.1	21.0	29.1	36.1	37.3
72.5°	5629.3	1711.5	52.5	27.9	16.3	12.8	12.8	21.0	27.9	34.9	36.1
75°	2419.3	472.7	42.0	19.9	14.0	11.7	11.7	19.9	26.8	33.7	36.1
77.5°	442.4	120.0	33.7	17.4	14.0	11.7	10.5	18.7	25.6	32.6	33.7
80°	175.8	59.4	26.8	15.1	12.8	10.5	9.3	17.4	24.4	31.4	32.6
82.5°	105.9	33.7	22.1	14.0	12.8	9.3	8.2	15.1	23.3	30.3	31.4
85°	86.1	23.3	17.4	14.0	11.7	9.3	6.9	14.0	21.0	29.1	30.3
87.5°	42.0	16.3	16.3	12.8	11.7	9.3	6.9	12.8	19.9	27.9	29.1
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)