

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: P191115

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191115
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-SL3-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 24242.9 lumens
Efficiency: N/A
Efficacy: 107.3 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

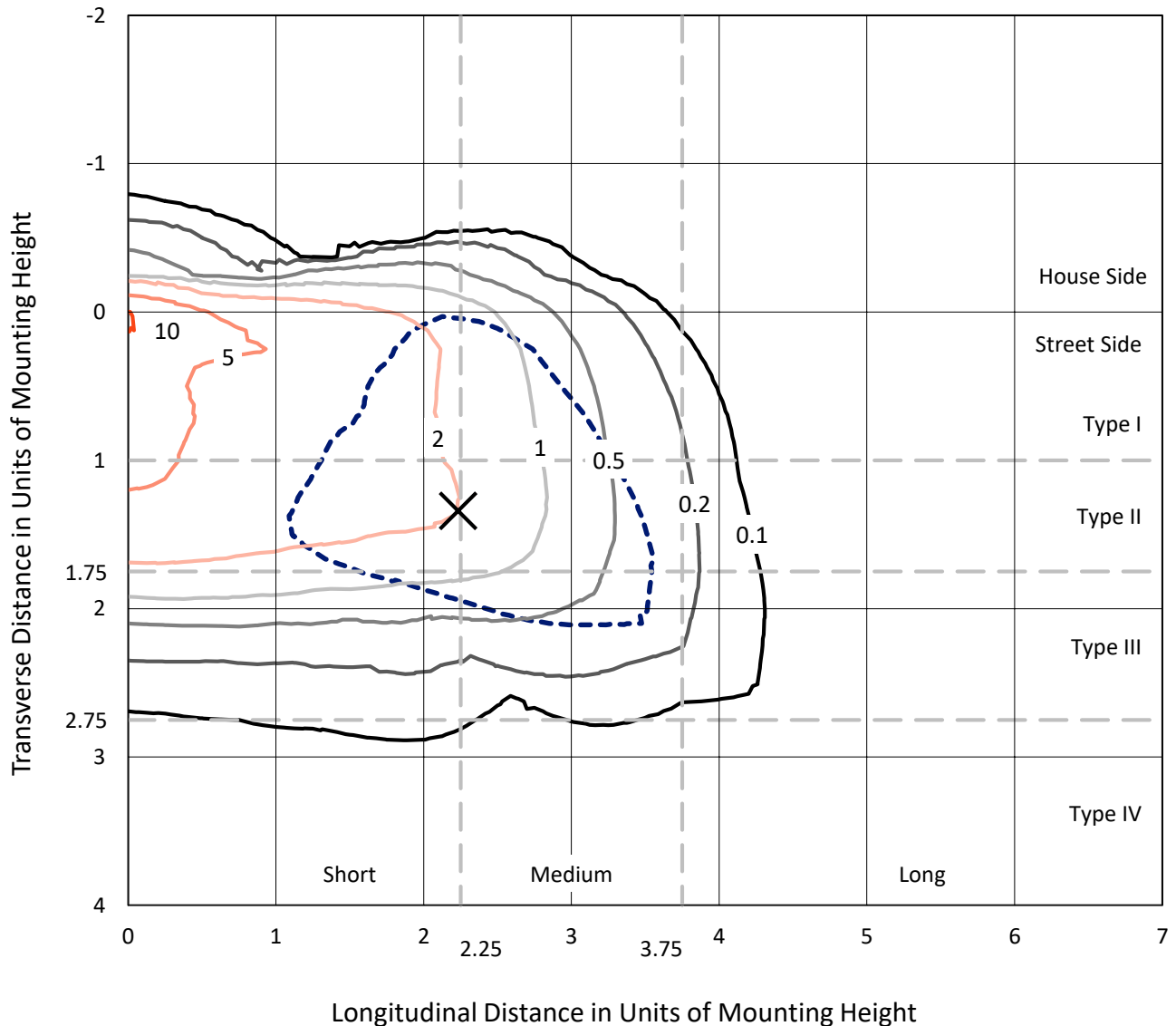
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

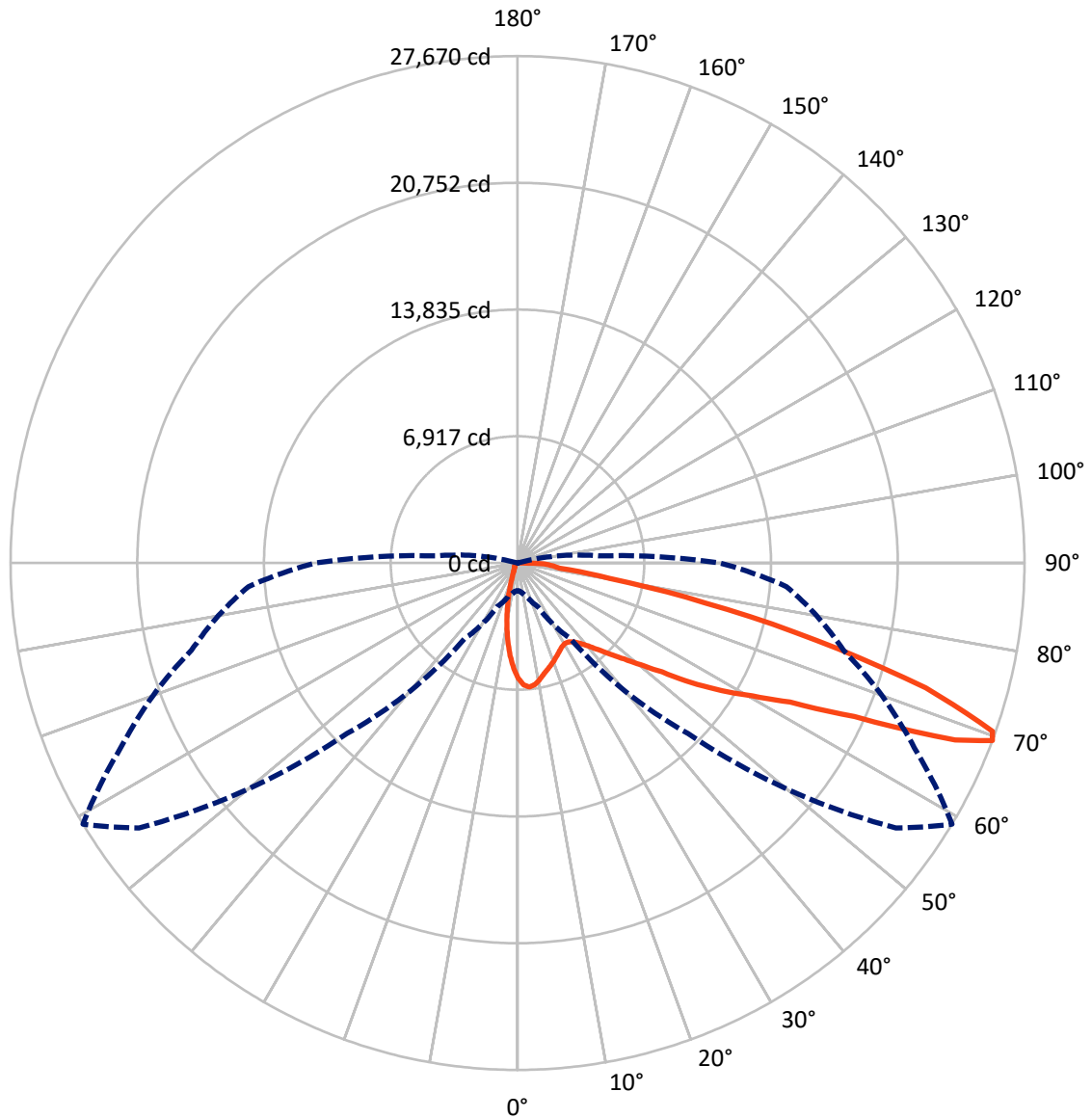
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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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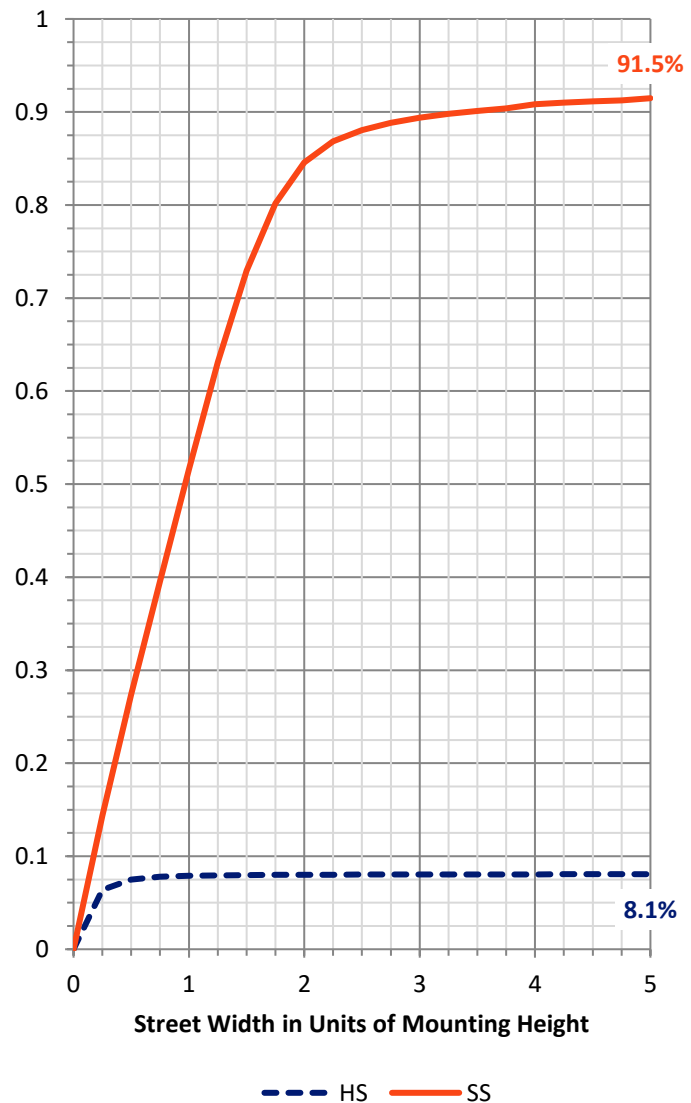
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1974.3	0.0	1974.3
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	22268.6	0.0	22268.6
	% Fixture	91.9	0.0	91.9
Total	Lumens	24242.9	0.0	24242.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.2	2.1
10°-20°	1058.3	4.4
20°-30°	1424.1	5.9
30°-40°	2067.7	8.5
40°-50°	3442.9	14.2
50°-60°	5370.9	22.2
60°-70°	6646.1	27.4
70°-80°	3368.2	13.9
80°-90°	352.4	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°	24242.9	100.0
0°-180°	24242.9	100.0



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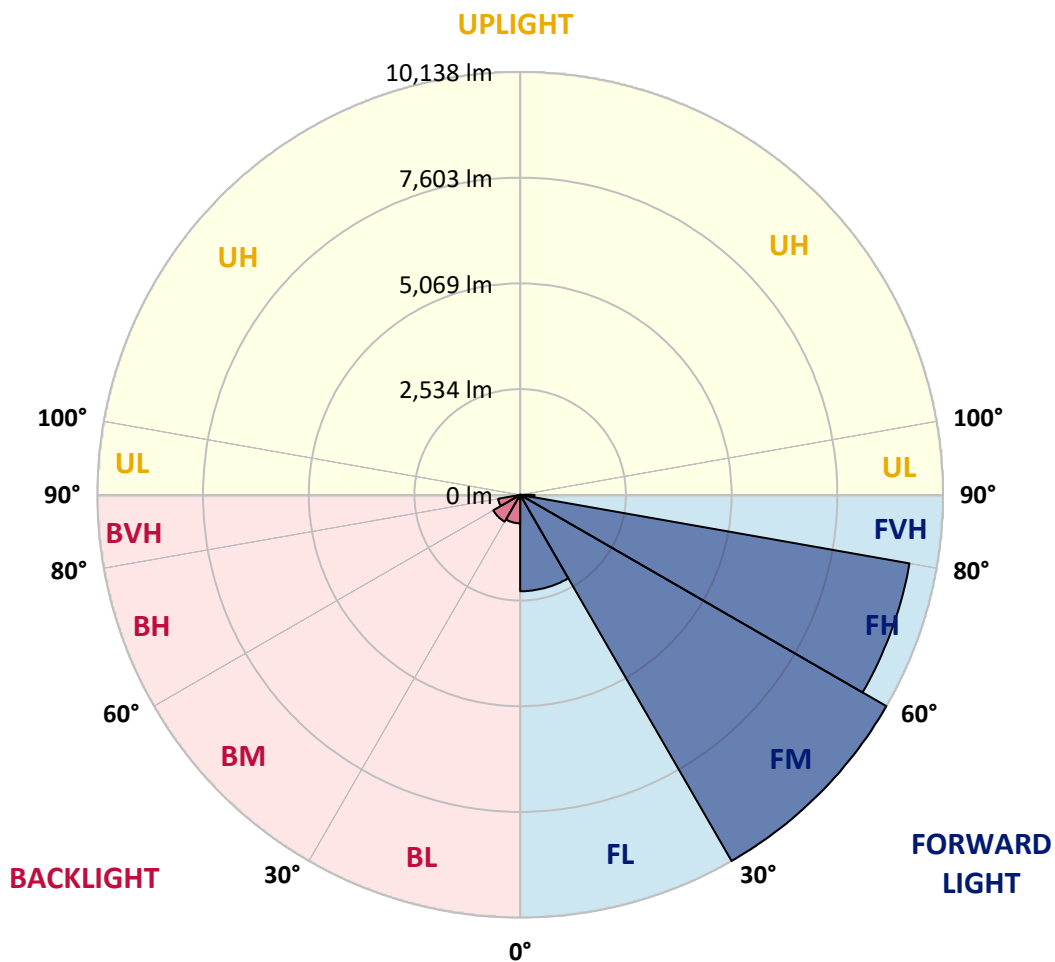
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2311.3	9.5			
FM	(30°-60°)	10137.7	41.8			
FH	(60°-80°)	9478.1	39.1			G4/12000
FVH	(80°-90°)	341.6	1.4			G3/500
BL	(0°-30°)	683.4	2.8	B2/1000		
BM	(30°-60°)	743.9	3.1	B1/1000		
BH	(60°-80°)	536.2	2.2	B2/1000		G2/1000
BVH	(80°-90°)	10.8	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	6310.1	6310.1	6310.1	6310.1	6310.1	6310.1	6310.1	6310.1	6310.1	6310.1	6310.1
2.5°	6916.1	6913.3	6883.1	6869.4	6844.8	6792.6	6711.8	6669.2	6600.7	6481.4	6321.0
5°	6853.0	6885.9	6903.7	6905.0	6922.9	6903.7	6831.1	6795.4	6700.8	6508.8	6221.0
7.5°	6425.3	6437.6	6488.3	6532.2	6617.2	6698.1	6724.1	6709.0	6652.8	6447.1	6064.7
10°	5967.4	5979.8	6040.0	6097.6	6212.8	6337.5	6469.1	6496.6	6519.9	6359.5	5913.9
12.5°	5572.5	5584.9	5646.6	5722.0	5856.3	6009.8	6214.1	6259.3	6362.1	6275.8	5793.3
15°	5232.6	5238.1	5298.4	5391.6	5552.0	5749.4	5981.1	6053.7	6211.4	6216.9	5687.7
17.5°	4943.3	4957.0	4994.0	5083.1	5258.7	5502.7	5772.7	5876.9	6062.0	6167.6	5584.9
20°	4766.5	4780.2	4778.8	4828.2	4985.9	5246.3	5564.3	5689.1	5913.9	6116.8	5493.0
22.5°	4732.3	4732.3	4696.6	4689.7	4782.9	5000.9	5347.8	5499.9	5780.9	6094.8	5428.6
25°	4854.2	4848.8	4759.7	4687.0	4691.2	4821.4	5138.0	5318.9	5668.6	6110.0	5394.3
27.5°	5112.0	5105.1	4992.7	4854.2	4743.2	4741.8	4979.0	5173.7	5579.4	6181.3	5408.0
30°	5468.4	5465.6	5343.6	5169.6	4968.1	4782.9	4924.2	5100.9	5521.9	6310.1	5439.6
32.5°	5857.7	5853.6	5761.8	5578.0	5323.0	4968.1	4981.8	5129.8	5538.3	6481.4	5516.4
35°	6270.4	6263.5	6223.7	6063.3	5782.3	5309.3	5170.9	5286.1	5642.5	6737.8	5667.1
37.5°	6717.2	6724.1	6752.9	6599.4	6304.7	5787.8	5487.6	5565.7	5852.2	7086.0	5912.6
40°	7376.6	7375.3	7384.9	7183.4	6899.6	6373.2	5930.4	5955.0	6203.2	7547.9	6285.4
42.5°	8573.4	8489.8	8236.2	7824.9	7539.8	7042.1	6488.3	6462.3	6632.2	8119.7	6807.7
45°	10181.4	10003.2	9345.2	8557.0	8192.3	7796.1	7175.1	7091.5	7199.8	8806.5	7452.0
47.5°	11564.7	11379.5	10448.7	9319.2	8884.5	8511.7	7979.8	7829.1	7864.7	9575.5	8269.0
50°	12034.8	11944.4	11131.4	9982.7	9555.0	9412.4	8913.4	8729.7	8678.9	10465.2	9216.4
52.5°	11871.7	11864.8	11323.3	10413.1	10169.1	10344.6	10088.2	9875.7	9689.3	11402.8	10180.0
55°	11609.9	11644.1	11401.5	10790.1	10781.9	11195.9	11694.9	11518.0	10977.9	12421.4	11010.8
57.5°	10887.4	11034.1	11357.6	11503.0	11840.1	12263.7	13032.8	13137.0	12498.2	13201.5	11700.3
60°	8833.9	9156.0	10214.4	11605.8	13204.1	14259.7	14647.7	14736.8	13745.7	13849.8	12631.2
62.5°	6270.4	6599.4	7941.5	10295.2	13224.7	16882.2	17053.6	16704.0	15119.3	14810.8	14236.4
65°	3328.5	3582.1	4678.8	7431.4	11465.9	17490.9	21260.8	20218.9	17543.0	16701.2	16310.5
67.5°	1702.6	1779.4	2215.3	3636.9	7882.4	15536.1	25032.0	25765.4	21720.0	18576.6	16210.5
69°	1506.6	1551.8	1841.1	2629.3	5047.5	13158.9	25215.7	27669.6	23906.6	18420.3	14731.3
70°	1458.6	1498.3	1761.5	2379.8	3945.3	11035.5	24512.5	27502.3	24465.8	17825.3	13626.4
72.5°	1237.9	1272.1	1568.3	2102.9	3206.4	5478.0	19911.8	23304.8	21954.4	14849.3	9863.4
75°	828.0	940.4	1505.2	1971.3	2983.0	3111.8	13127.4	16841.0	15644.3	10015.5	5138.0
77.5°	198.8	213.9	424.9	1568.3	2728.0	2739.0	6751.5	10469.3	8539.1	3569.7	1214.5
80°	106.9	102.8	119.3	311.2	2540.2	2570.4	3039.2	5081.8	3048.8	592.2	400.3
82.5°	75.4	71.3	76.7	130.2	799.2	2341.4	2198.8	2300.3	1264.0	227.6	179.6
85°	27.4	26.1	42.5	117.8	250.8	1346.2	2259.2	1897.3	1024.1	104.1	131.7
87.5°	9.6	8.2	16.5	64.4	76.7	573.1	1394.2	1434.0	403.0	63.0	61.7
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°	6310.1	6310.1	6310.1	6310.1	6310.1	6310.1	6310.1	6310.1	6310.1	6310.1	6310.1
2.5°	6253.9	6168.9	6012.6	5852.2	5704.2	5526.0	5436.9	5349.1	5312.1	5298.4	5233.9
5°	6073.0	5929.0	5597.3	5264.1	4957.0	4630.8	4415.6	4242.8	4141.4	4092.0	4013.9
7.5°	5841.3	5605.5	5102.4	4588.2	4109.8	3638.2	3288.7	3020.1	2834.9	2745.8	2665.0
10°	5616.4	5302.5	4586.9	3886.4	3236.6	2611.5	2129.0	1779.4	1555.9	1453.1	1387.3
12.5°	5414.9	5007.8	4089.2	3202.3	2386.6	1654.6	1163.9	885.6	747.2	699.2	675.9
15°	5235.4	4736.4	3619.1	2552.6	1616.3	945.9	636.1	541.4	519.6	519.6	516.8
17.5°	5065.3	4470.4	3165.3	1942.5	1014.5	578.5	484.0	471.6	471.6	477.1	477.1
20°	4902.2	4216.8	2726.7	1394.2	638.8	459.2	437.3	434.5	437.3	444.2	444.2
22.5°	4762.3	3986.4	2316.8	956.9	474.3	414.0	403.0	399.0	400.3	404.4	407.1
25°	4658.2	3791.8	1930.2	648.4	408.6	377.0	364.7	357.8	352.3	352.3	355.1
27.5°	4592.4	3627.3	1555.9	471.6	367.3	342.7	323.6	312.5	300.2	293.4	296.1
30°	4544.5	3471.1	1205.0	385.2	329.0	304.3	279.7	261.9	244.0	235.8	238.6
32.5°	4526.6	3344.9	900.7	339.9	294.7	267.3	237.1	213.9	194.7	187.8	189.1
35°	4574.5	3244.8	659.4	307.1	267.3	233.0	198.8	172.8	157.6	153.5	154.9
37.5°	4700.7	3191.4	493.5	279.7	242.6	204.3	165.9	141.2	131.7	131.7	133.0
40°	4939.2	3190.0	396.2	260.4	220.8	176.9	137.1	119.3	113.8	116.5	117.8
42.5°	5287.4	3262.7	345.5	242.6	201.5	150.8	113.8	101.5	100.0	102.8	104.1
45°	5763.1	3395.7	318.0	227.6	181.0	126.1	96.0	87.8	87.8	91.9	93.2
47.5°	6345.8	3590.3	294.7	212.5	160.4	105.6	82.2	76.7	78.2	82.2	83.6
50°	7047.6	3835.7	271.4	196.0	145.4	87.8	71.3	67.2	68.5	74.1	75.4
52.5°	7846.9	4166.1	252.3	181.0	126.1	72.6	60.4	57.6	60.4	65.8	67.2
55°	8532.2	4462.2	228.9	168.6	101.5	60.4	49.3	49.3	52.1	58.9	60.4
57.5°	9191.6	4772.0	208.4	145.4	79.5	48.0	41.1	42.5	46.6	53.5	54.8
60°	10159.4	5297.0	183.7	122.0	60.4	38.4	34.3	35.6	41.1	48.0	49.3
62.5°	11803.1	6096.3	159.1	101.5	46.6	30.2	27.4	30.2	37.0	45.2	46.6
65°	13286.4	6421.2	130.2	85.0	35.6	23.3	23.3	27.4	35.6	43.9	45.2
67.5°	12459.8	5405.4	101.5	67.2	27.4	17.8	19.2	26.1	34.3	43.9	45.2
69°	11019.0	4419.7	86.3	53.5	23.3	16.5	17.8	26.1	34.3	42.5	43.9
70°	9896.2	3731.5	76.7	45.2	20.6	16.5	17.8	24.7	34.3	42.5	43.9
72.5°	6628.1	2015.2	61.7	32.9	19.2	15.0	15.0	24.7	32.9	41.1	42.5
75°	2848.6	556.6	49.3	23.3	16.5	13.7	13.7	23.3	31.5	39.8	42.5
77.5°	520.9	141.2	39.8	20.6	16.5	13.7	12.4	21.9	30.2	38.4	39.8
80°	207.0	69.9	31.5	17.8	15.0	12.4	10.9	20.6	28.7	37.0	38.4
82.5°	124.7	39.8	26.1	16.5	15.0	10.9	9.6	17.8	27.4	35.6	37.0
85°	101.5	27.4	20.6	16.5	13.7	10.9	8.2	16.5	24.7	34.3	35.6
87.5°	49.3	19.2	19.2	15.0	13.7	10.9	8.2	15.0	23.3	32.9	34.3
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)