

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: P269707

Luminaire Tested: **GLEON-AF-10-LED-E1-SL2-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-SL2-7027-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27934.9 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 323
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

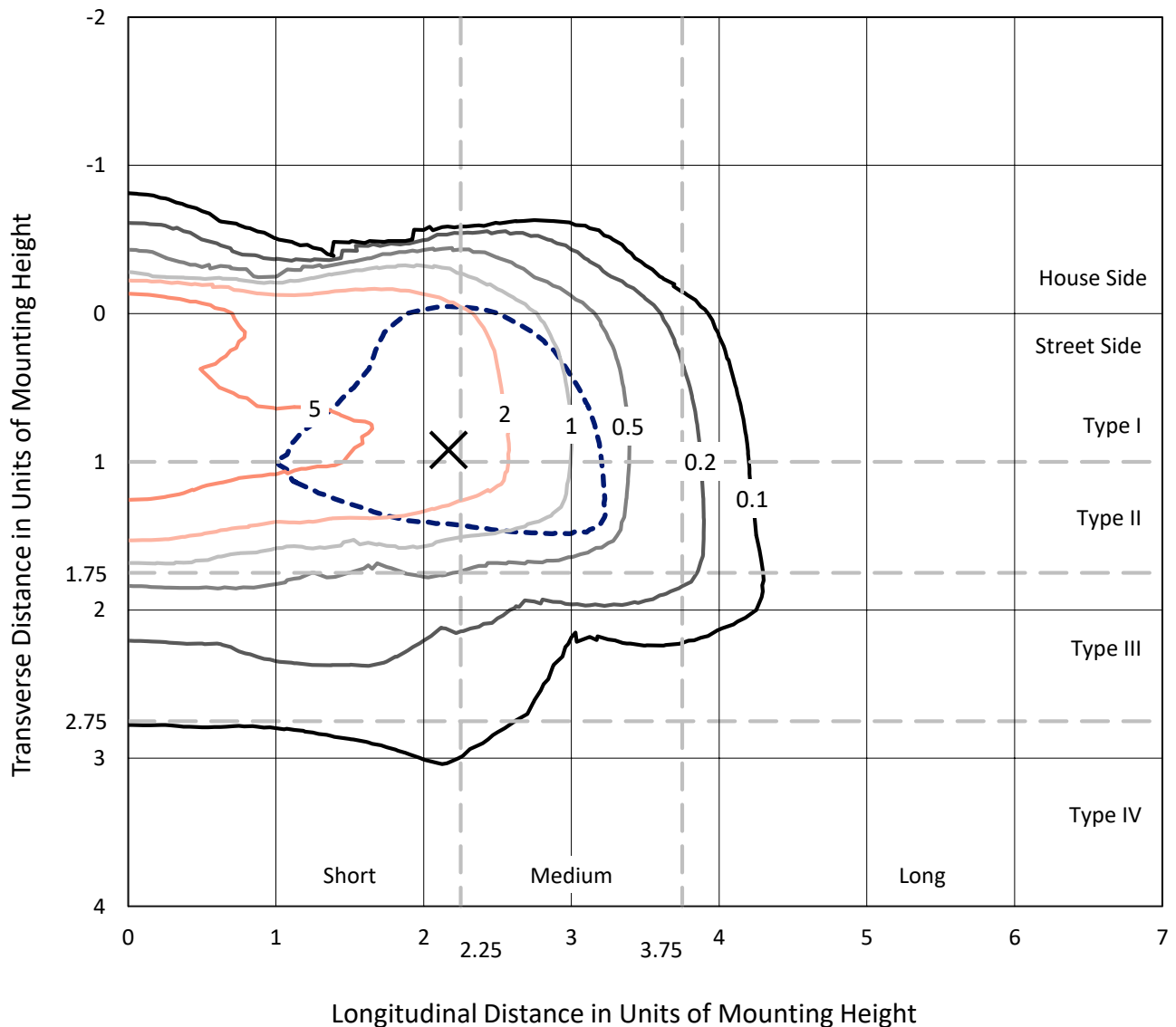


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

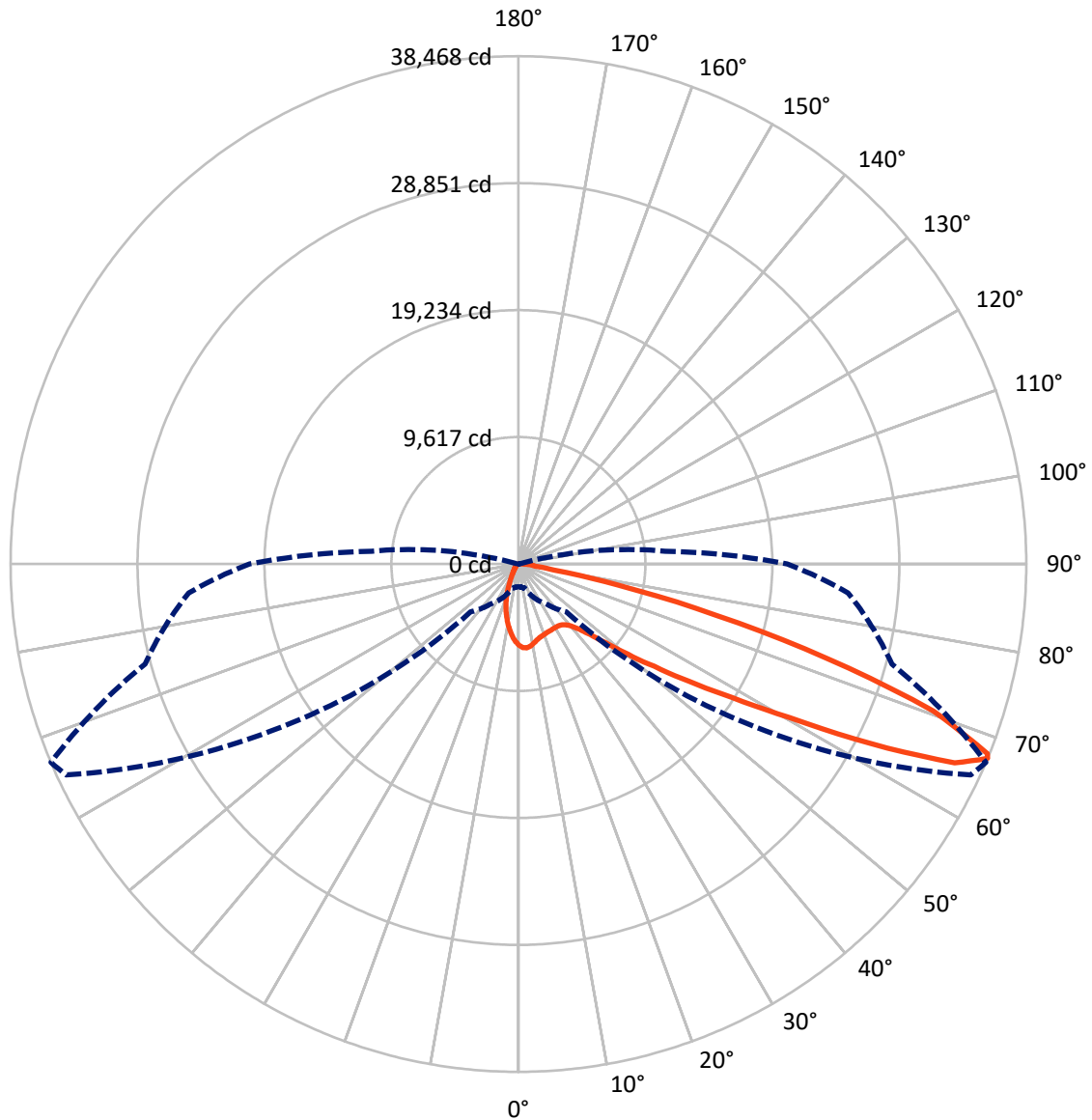


Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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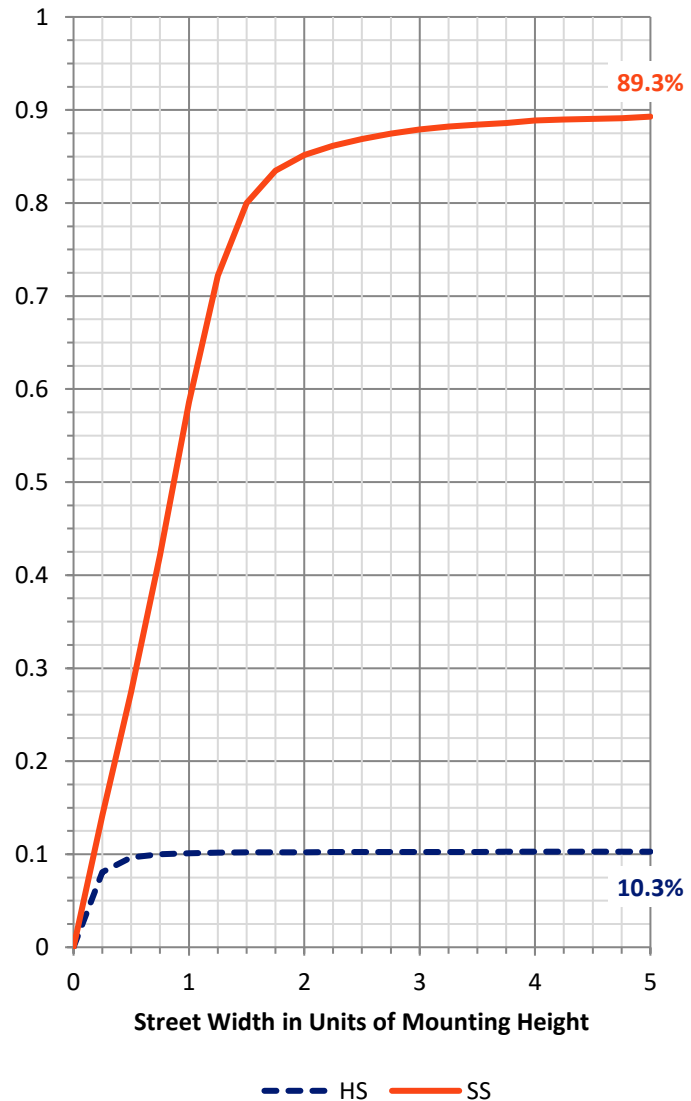
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2900.5	0.0	2900.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	25034.5	0.0	25034.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	27934.9	0.0	27934.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.3	1.8
10°-20°	1066.9	3.8
20°-30°	1551.2	5.6
30°-40°	2420.0	8.7
40°-50°	4286.8	15.3
50°-60°	6783.5	24.3
60°-70°	7769.5	27.8
70°-80°	3222.8	11.5
80°-90°	332.9	1.2
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°	27934.9	100.0
0°-180°	27934.9	100.0

Coefficient of Utilization



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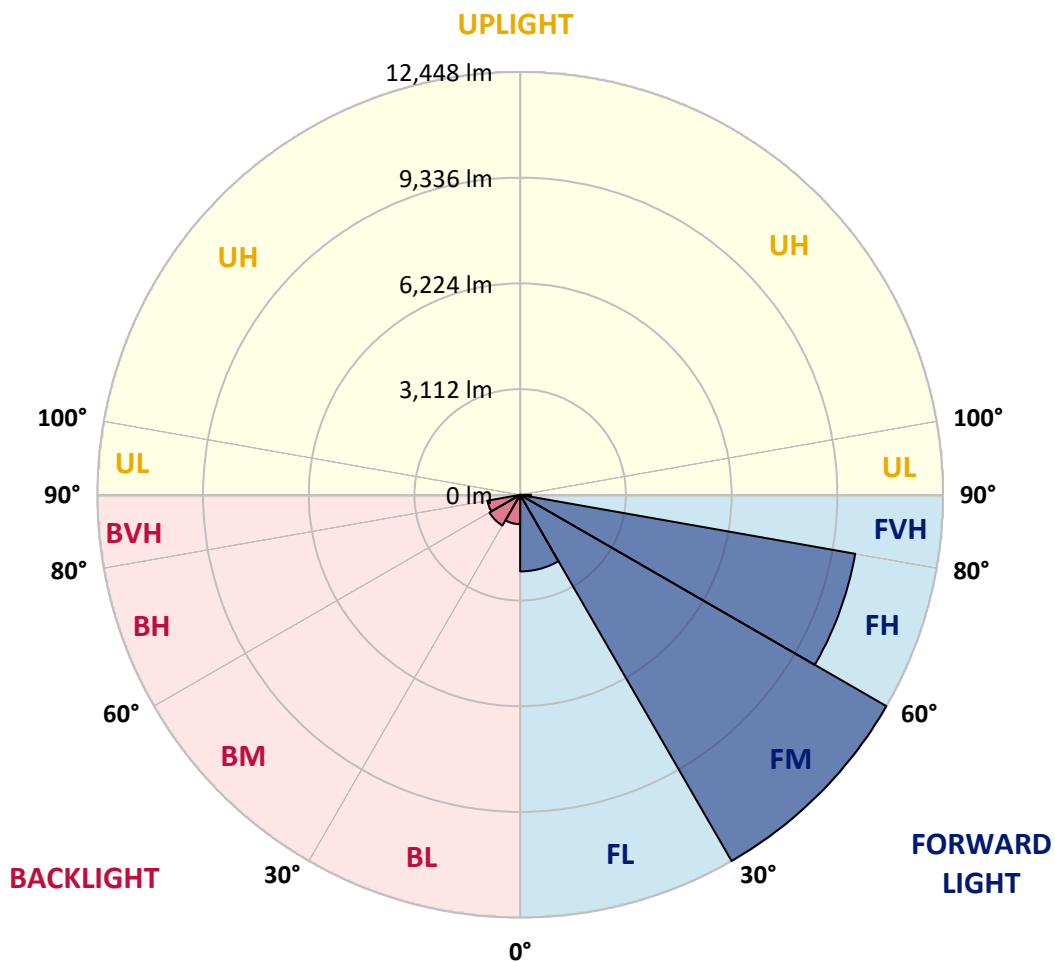
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2253.9	8.1			
FM (30°-60°)	12447.9	44.6			
FH (60°-80°)	10014.7	35.9			G4/12000
FVH (80°-90°)	317.9	1.1			G3/500
BL (0°-30°)	865.5	3.1	B2/1000		
BM (30°-60°)	1042.4	3.7	B2/2500		
BH (60°-80°)	977.6	3.5	B2/1000		G2/1000
BVH (80°-90°)	15.0	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6160.7	6160.7	6160.7	6160.7	6160.7	6160.7	6160.7	6160.7	6160.7	6160.7	6160.7
2.5°	6369.3	6382.3	6380.7	6390.5	6413.2	6414.8	6392.1	6348.1	6338.4	6281.3	6181.9
5°	5873.8	5911.3	5934.3	6027.1	6131.3	6256.9	6351.3	6385.5	6380.7	6339.9	6190.0
7.5°	5308.5	5346.1	5372.0	5481.3	5619.7	5834.9	6080.8	6282.8	6300.8	6344.8	6183.6
10°	4932.1	4938.6	4974.5	5078.7	5223.9	5443.8	5737.0	6090.6	6144.3	6305.7	6167.3
12.5°	4622.6	4627.3	4674.7	4787.1	4941.9	5163.5	5471.4	5880.5	5963.5	6256.9	6163.9
15°	4402.7	4420.5	4462.9	4580.2	4744.8	4964.8	5280.9	5725.6	5825.0	6238.9	6193.3
17.5°	4329.2	4348.9	4361.8	4446.6	4596.4	4811.5	5135.8	5624.6	5737.0	6248.7	6250.2
20°	4405.8	4420.5	4391.2	4412.4	4505.2	4697.4	5013.6	5538.3	5671.9	6260.1	6323.6
22.5°	4690.9	4697.4	4617.6	4524.9	4508.6	4614.5	4917.4	5469.8	5613.1	6291.0	6409.9
25°	5179.7	5168.4	5038.1	4837.6	4648.5	4599.7	4860.4	5427.5	5583.9	6323.6	6499.5
27.5°	5769.6	5786.0	5606.7	5315.0	4955.0	4697.4	4852.3	5409.6	5570.8	6346.4	6577.7
30°	6486.5	6509.4	6304.0	5937.4	5420.9	4938.6	4927.3	5406.3	5562.8	6331.8	6584.3
32.5°	7218.2	7245.9	7084.6	6706.6	6043.3	5342.7	5096.8	5442.1	5579.1	6281.3	6546.8
35°	7984.0	8023.0	7915.5	7591.2	6887.3	5926.1	5395.0	5551.3	5655.5	6276.4	6509.4
37.5°	9041.4	9077.3	8875.3	8531.5	7908.9	6708.2	5873.8	5756.6	5836.5	6354.6	6519.1
40°	10620.3	10615.5	10094.1	9567.7	9031.6	7702.1	6546.8	6128.1	6168.8	6590.9	6639.7
42.5°	12340.9	12332.8	11562.1	10762.1	10278.1	8925.6	7431.6	6770.0	6742.4	7025.9	6952.5
45°	13667.3	13665.6	13036.7	12135.7	11778.8	10330.2	8575.4	7663.0	7620.6	7733.0	7529.4
47.5°	14232.7	14242.4	13926.3	13292.5	13442.3	12230.2	10017.4	8956.7	8893.1	8847.5	8537.9
50°	13792.7	13812.2	13838.3	13714.5	14662.8	14783.3	11951.5	10780.0	10748.9	10545.4	10061.5
52.5°	12355.6	12455.0	12761.3	13154.1	15086.5	17234.0	14983.8	13044.7	12878.6	12661.9	12129.0
55°	9934.4	10043.5	10625.2	11578.3	14455.9	18843.7	19233.3	15964.7	15687.7	15040.9	14271.7
57.5°	6574.5	6743.9	7588.1	8800.2	12624.4	19102.8	23472.8	20016.9	19052.3	17281.2	16414.4
60°	3622.1	3785.1	4700.8	5799.0	9117.9	17822.2	26324.2	25292.9	23588.6	19785.6	19016.5
62.5°	2230.6	2318.6	2994.8	4016.4	5468.3	14066.4	26914.1	31922.8	29949.6	23010.1	22159.6
65°	1775.9	1813.5	2144.3	3283.1	3920.4	8366.9	25009.4	36977.1	36318.8	26914.1	24973.5
67°	1723.8	1738.6	1895.0	2818.8	3695.4	5129.3	20952.2	37800.0	38467.9	29276.8	25061.5
67.5°	1735.3	1751.5	1899.8	2690.2	3688.9	4713.8	19554.1	37475.8	38319.8	29464.0	24672.0
70°	1673.4	1723.8	2175.2	2688.4	3508.1	3917.0	11710.3	32470.2	33348.5	27376.8	20934.3
72.5°	593.2	596.4	940.2	2175.2	3814.4	3959.4	5880.5	23803.6	24453.8	20942.5	15093.0
75°	352.0	299.9	312.8	619.1	3645.0	3845.4	3392.4	15210.2	15453.1	12000.4	7643.4
77.5°	242.8	211.8	218.4	273.8	1388.2	3791.6	2694.9	7931.9	7672.8	4208.6	1627.8
80°	138.5	122.2	130.3	239.5	505.0	3537.3	2541.8	3216.4	2742.3	713.7	449.7
82.5°	73.3	62.0	75.0	197.2	352.0	2204.5	2546.8	1554.4	1231.8	241.1	306.3
85°	26.1	21.2	35.8	135.3	234.6	676.2	2360.9	1306.8	1026.6	117.3	233.0
87.5°	4.9	4.9	14.6	55.3	94.5	206.9	1396.3	775.5	519.8	70.1	159.7
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°	6160.7	6160.7	6160.7	6160.7	6160.7	6160.7	6160.7	6160.7	6160.7	6160.7	6160.7
2.5°	6141.2	6071.0	5976.6	5860.9	5724.0	5603.4	5513.8	5420.9	5401.4	5368.8	5363.9
5°	6100.4	5979.7	5745.2	5476.3	5189.6	4930.4	4720.4	4532.9	4449.8	4378.1	4370.0
7.5°	6040.2	5859.3	5460.1	5026.6	4578.5	4171.2	3825.8	3581.4	3356.5	3249.0	3232.7
10°	5970.0	5711.0	5139.1	4537.8	3918.6	3343.5	2830.2	2400.1	2139.4	1984.5	1965.0
12.5°	5904.9	5566.0	4811.5	4031.1	3208.2	2439.2	1779.4	1368.7	1094.9	984.2	971.1
15°	5873.8	5448.6	4505.2	3512.9	2465.3	1552.8	972.8	752.8	663.2	637.1	635.5
17.5°	5870.7	5349.2	4205.4	2976.9	1727.1	902.6	633.8	578.4	560.5	554.0	554.0
20°	5869.0	5254.7	3905.7	2421.2	1096.7	601.2	527.9	514.9	501.9	493.7	493.7
22.5°	5887.0	5170.0	3592.9	1854.2	690.8	487.2	464.3	451.4	435.0	423.6	422.1
25°	5904.9	5104.9	3273.5	1319.8	500.3	423.6	400.9	382.9	360.1	345.4	343.8
27.5°	5908.2	5023.4	2931.3	883.2	418.8	369.8	340.5	312.8	286.7	272.0	270.5
30°	5859.3	4886.5	2551.6	596.4	369.8	321.0	281.9	252.6	228.1	216.8	216.8
32.5°	5763.2	4717.1	2134.6	449.7	329.0	275.4	233.0	205.4	189.1	184.2	182.4
35°	5676.7	4534.6	1705.9	381.3	295.0	233.0	190.6	172.7	163.0	161.3	159.7
37.5°	5626.3	4388.0	1303.5	345.4	262.3	195.6	161.3	148.3	143.4	140.1	141.8
40°	5665.3	4265.7	963.0	316.2	229.7	163.0	136.9	130.3	125.5	123.8	123.8
42.5°	5836.5	4244.5	715.3	290.1	198.7	135.3	118.9	114.1	110.9	109.1	110.9
45°	6286.2	4374.8	555.6	265.5	167.9	114.1	101.0	99.4	97.7	97.7	97.7
47.5°	6962.4	4643.7	462.7	238.0	140.1	97.7	87.9	86.3	84.7	86.3	86.3
50°	8107.8	5135.8	413.8	210.3	115.7	83.2	75.0	75.0	75.0	75.0	76.5
52.5°	9849.6	6103.7	381.3	182.4	94.5	70.1	63.5	63.5	65.1	65.1	66.8
55°	11790.2	7387.7	352.0	154.8	79.8	58.7	52.1	53.8	55.3	57.0	57.0
57.5°	13895.3	8810.0	327.5	127.1	68.5	47.3	43.9	45.6	47.3	50.6	50.6
60°	16435.6	10349.8	291.7	99.4	57.0	37.5	34.2	37.5	42.4	45.6	47.3
62.5°	19225.0	11839.0	246.0	78.2	47.3	29.4	27.7	34.2	40.8	43.9	45.6
65°	21131.4	12306.7	189.1	63.5	35.8	21.2	22.7	30.9	39.0	43.9	43.9
67°	20359.0	11157.9	154.8	53.8	29.4	16.3	21.2	30.9	39.0	42.4	43.9
67.5°	19823.0	10708.2	148.3	52.1	27.7	16.3	21.2	30.9	39.0	43.9	43.9
70°	16129.2	8044.2	123.8	39.0	22.7	14.6	18.0	29.4	37.5	42.4	42.4
72.5°	11206.9	4959.8	110.9	27.7	19.6	13.0	16.3	27.7	35.8	40.8	42.4
75°	5328.0	1795.6	94.5	21.2	18.0	11.4	14.6	27.7	35.8	40.8	40.8
77.5°	1086.8	417.2	76.5	18.0	14.6	11.4	13.0	26.1	34.2	39.0	39.0
80°	356.8	161.3	57.0	16.3	14.6	11.4	13.0	24.4	34.2	37.5	39.0
82.5°	257.5	81.4	37.5	16.3	14.6	11.4	11.4	24.4	32.6	37.5	37.5
85°	197.2	57.0	24.4	16.3	14.6	11.4	11.4	22.7	30.9	35.8	35.8
87.5°	130.3	22.7	19.6	16.3	14.6	11.4	11.4	22.7	29.4	34.2	35.8
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)