

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: P269391

Luminaire Tested: **GLEON-AF-06-LED-E1-SL2-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269391
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-06-LED-E1-SL2-7027-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 1200mA 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: 28103.7 lumens
Efficiency: N/A
Efficacy: 73.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 382
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

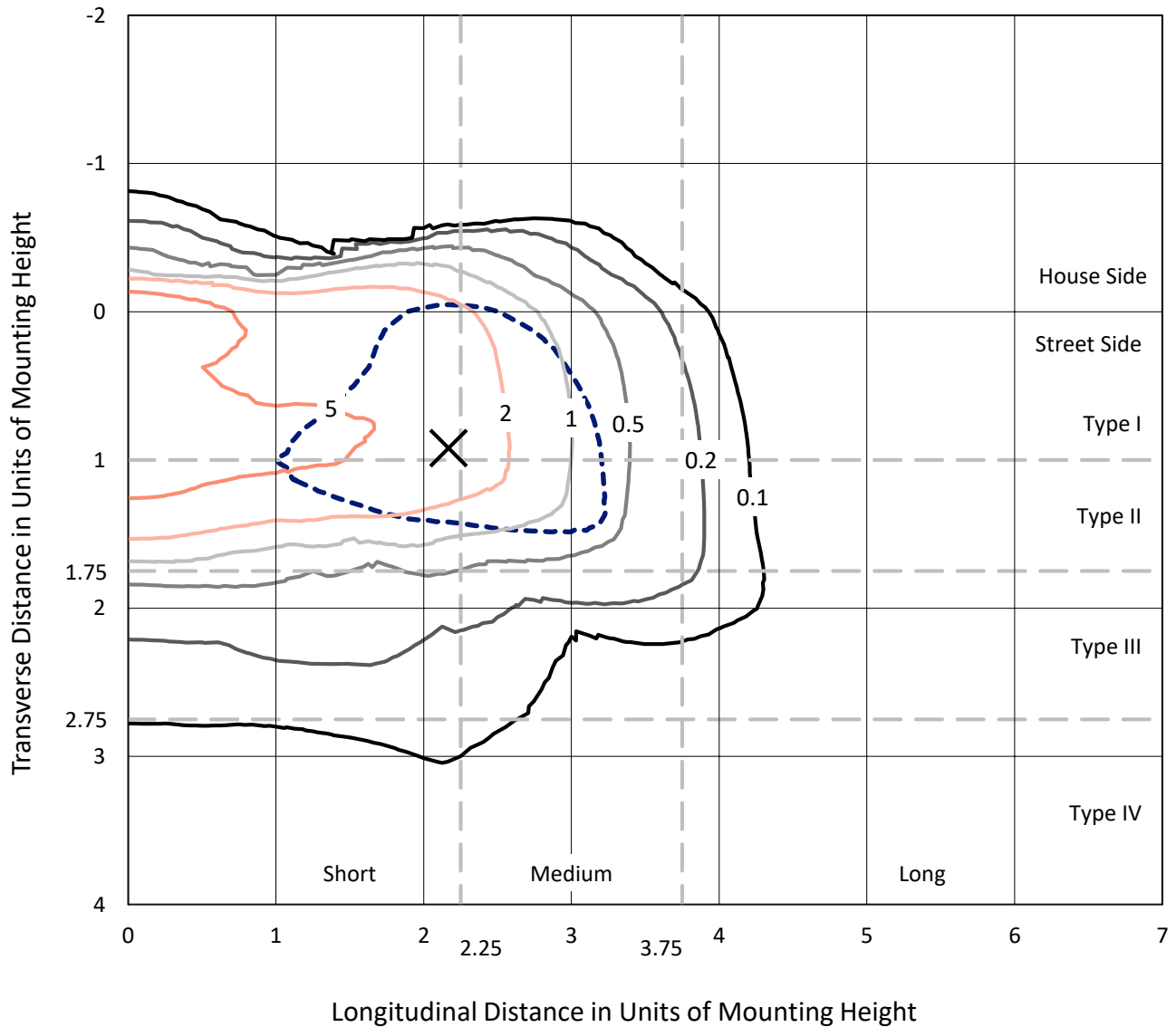


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

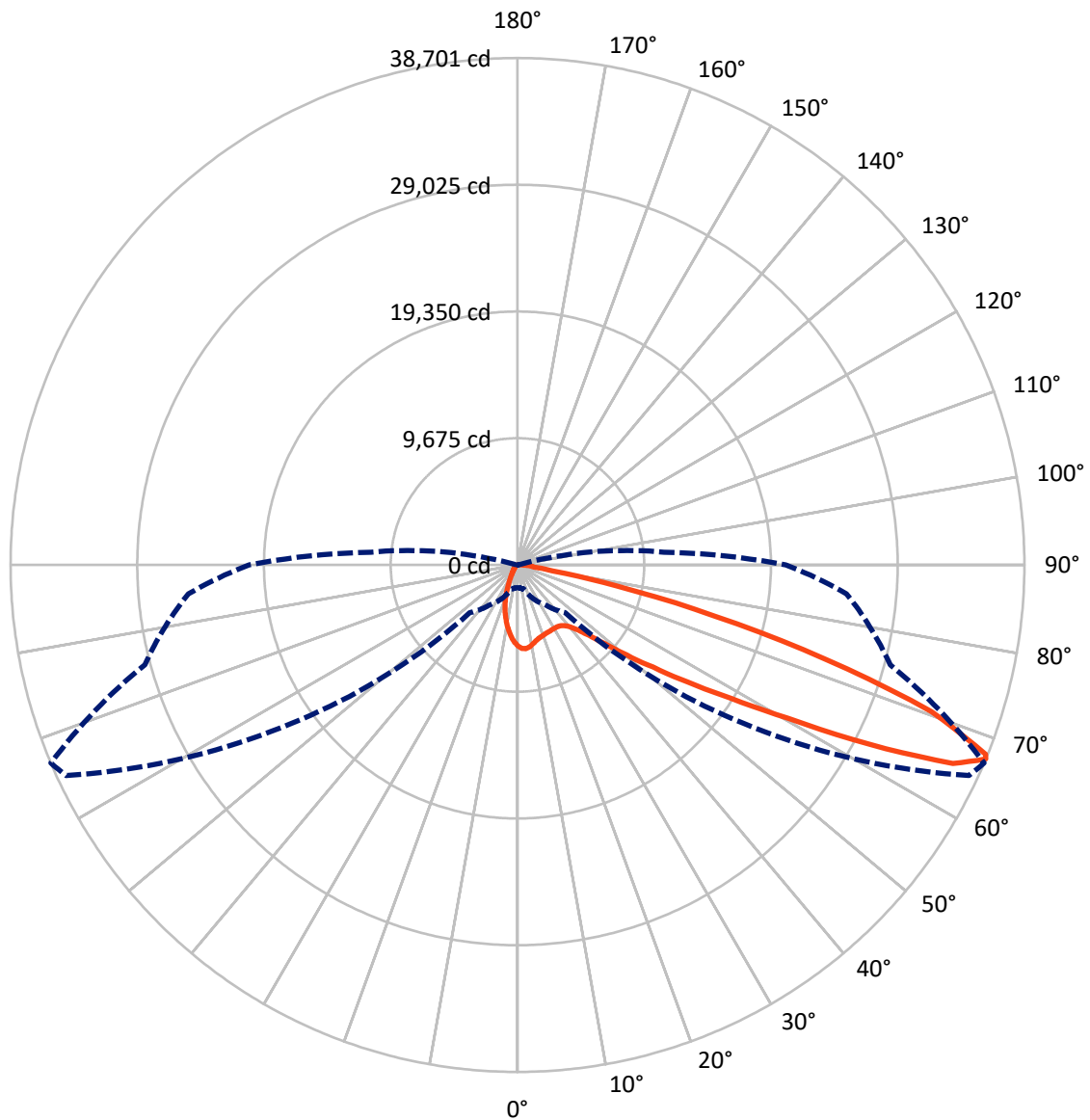


Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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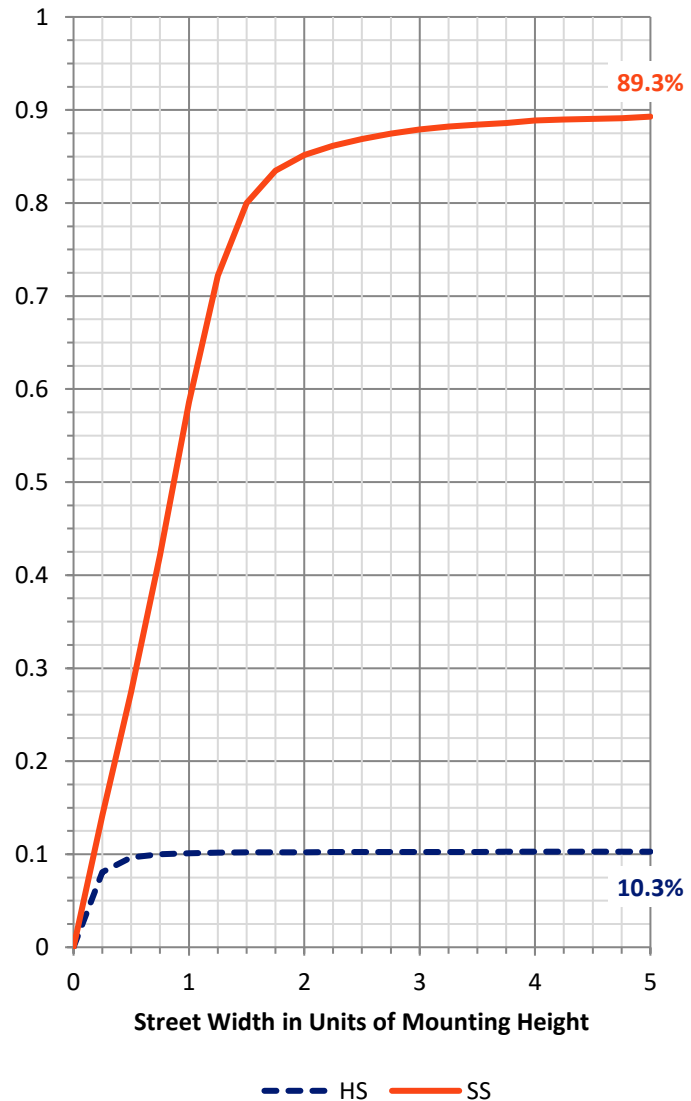
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2918.0	0.0	2918.0
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	25185.7	0.0	25185.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	28103.7	0.0	28103.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	504.3	1.8
10°-20°	1073.4	3.8
20°-30°	1560.6	5.6
30°-40°	2434.6	8.7
40°-50°	4312.7	15.3
50°-60°	6824.5	24.3
60°-70°	7816.5	27.8
70°-80°	3242.2	11.5
80°-90°	334.9	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°	28103.7	100.0
0°-180°	28103.7	100.0



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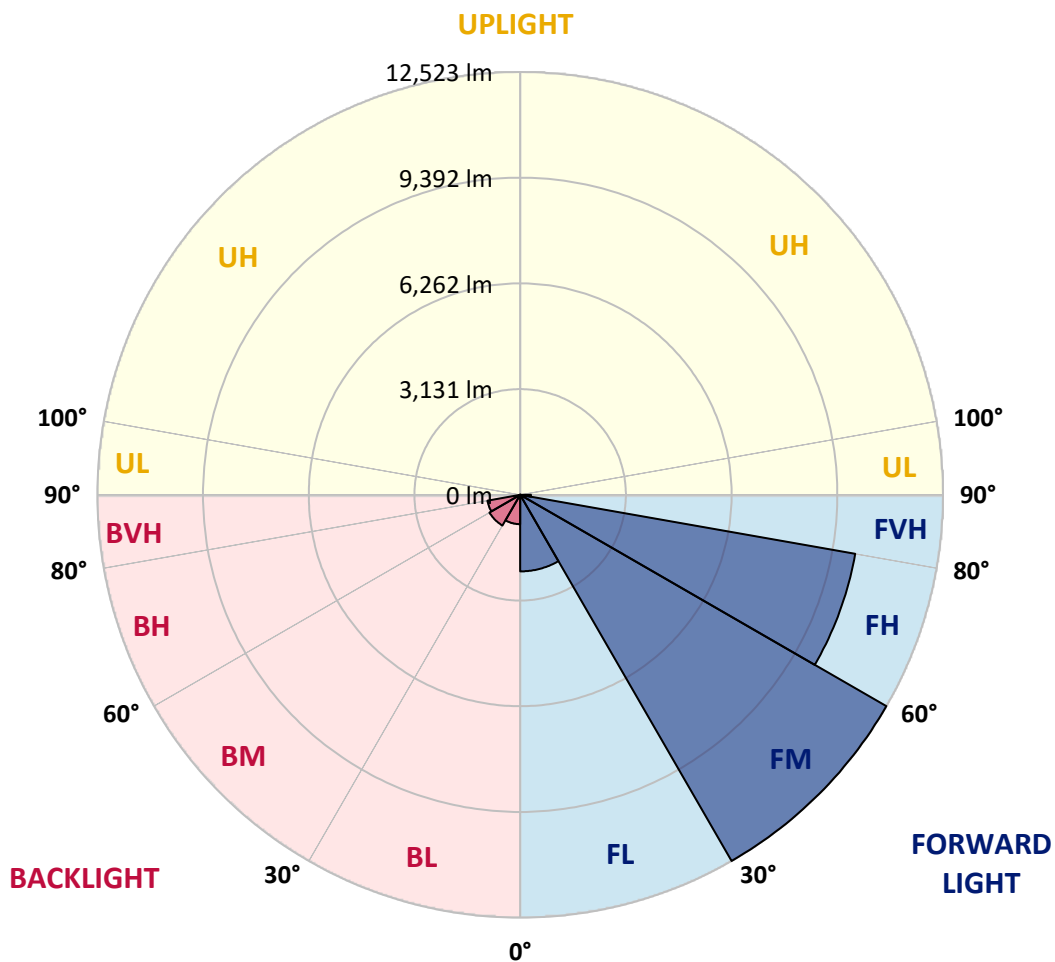
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2267.5	8.1			
FM (30°-60°)	12523.1	44.6			
FH (60°-80°)	10075.3	35.9			G4/12000
FVH (80°-90°)	319.8	1.1			G3/500
BL (0°-30°)	870.7	3.1	B2/1000		
BM (30°-60°)	1048.7	3.7	B2/2500		
BH (60°-80°)	983.5	3.5	B2/1000		G2/1000
BVH (80°-90°)	15.1	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°	6197.9	6197.9	6197.9	6197.9	6197.9	6197.9	6197.9	6197.9	6197.9	6197.9	6197.9
2.5°	6407.7	6420.8	6419.2	6429.0	6451.9	6453.7	6430.6	6386.4	6376.6	6319.1	6219.2
5°	5909.4	5947.0	5970.0	6063.5	6168.4	6294.7	6389.7	6424.0	6419.2	6378.2	6227.4
7.5°	5340.7	5378.3	5404.6	5514.3	5653.8	5870.1	6117.5	6320.8	6338.9	6383.1	6220.9
10°	4962.0	4968.4	5004.5	5109.5	5255.4	5476.6	5771.7	6127.3	6181.5	6343.8	6204.5
12.5°	4650.4	4655.3	4702.9	4816.1	4971.8	5194.7	5504.5	5916.0	5999.6	6294.7	6201.2
15°	4429.3	4447.1	4489.9	4607.9	4773.5	4994.8	5312.8	5760.2	5860.3	6276.5	6230.7
17.5°	4355.4	4375.0	4388.2	4473.5	4624.3	4840.6	5166.8	5658.7	5771.7	6286.3	6288.0
20°	4432.4	4447.1	4417.8	4439.1	4532.5	4726.0	5044.0	5571.7	5706.2	6297.8	6361.8
22.5°	4719.3	4726.0	4645.6	4552.2	4535.7	4642.4	4947.1	5502.8	5647.1	6329.1	6448.8
25°	5211.1	5199.6	5068.4	4866.8	4676.8	4627.4	4889.8	5460.3	5617.6	6361.8	6538.9
27.5°	5804.5	5820.8	5640.5	5347.2	4984.9	4726.0	4881.6	5442.2	5604.5	6384.9	6617.5
30°	6525.7	6548.7	6342.2	5973.3	5453.7	4968.4	4956.9	5439.0	5596.4	6370.1	6624.1
32.5°	7261.8	7289.7	7127.3	6747.1	6079.9	5375.0	5127.4	5475.0	5612.7	6319.1	6586.5
35°	8032.3	8071.5	7963.4	7637.2	6928.9	5962.0	5427.5	5584.9	5689.8	6314.2	6548.7
37.5°	9096.1	9132.1	8928.9	8582.9	7956.7	6748.6	5909.4	5791.5	5871.7	6393.0	6558.5
40°	10684.5	10679.6	10155.0	9625.5	9086.3	7748.6	6586.5	6165.2	6206.1	6630.7	6679.8
42.5°	12415.6	12407.3	11632.0	10827.1	10340.2	8979.6	7476.6	6810.9	6783.1	7068.4	6994.6
45°	13749.8	13748.2	13115.4	12209.0	11849.9	10392.8	8627.2	7709.3	7666.7	7779.9	7574.9
47.5°	14318.7	14328.4	14010.4	13372.8	13523.7	12304.1	10077.9	9010.8	8946.8	8900.9	8589.6
50°	13876.1	13895.7	13921.9	13797.3	14751.3	14872.7	12023.8	10845.1	10813.9	10609.1	10122.2
52.5°	12430.2	12530.3	12838.4	13233.6	15177.7	17338.0	15074.3	13123.7	12956.4	12738.4	12202.3
55°	9994.4	10104.1	10689.4	11648.3	14543.2	18957.7	19349.4	16061.2	15782.4	15131.7	14358.0
57.5°	6614.3	6784.8	7633.8	8853.4	12700.7	19218.2	23614.6	20137.8	19167.5	17385.6	16513.5
60°	3644.1	3807.9	4729.1	5834.0	9173.1	17929.9	26483.3	25445.7	23731.1	19905.2	19131.5
62.5°	2244.1	2332.5	3012.8	4040.7	5501.2	14151.4	27076.7	32115.8	30130.6	23149.1	22293.4
65°	1786.8	1824.5	2157.2	3303.1	3944.0	8417.4	25160.4	37200.6	36538.3	27076.7	25124.4
67°	1734.3	1749.1	1906.5	2835.9	3717.7	5160.3	21078.8	38028.4	38700.5	29453.5	25212.9
67.5°	1745.8	1762.1	1911.4	2706.4	3711.2	4742.3	19672.3	37702.3	38551.3	29642.1	24821.2
70°	1683.5	1734.3	2188.5	2704.7	3529.3	3940.8	11781.1	32666.4	33550.1	27542.3	21060.8
72.5°	596.7	600.0	945.8	2188.5	3837.4	3983.4	5916.0	23947.5	24601.5	21068.9	15184.1
75°	354.1	301.7	314.8	623.0	3666.9	3868.6	3412.9	15302.2	15546.3	12073.0	7689.6
77.5°	244.2	213.1	219.6	275.4	1396.7	3814.5	2711.3	7979.7	7719.1	4234.2	1637.6
80°	139.3	123.0	131.2	240.9	508.1	3558.7	2557.1	3235.9	2758.9	717.9	452.4
82.5°	73.8	62.3	75.4	198.3	354.1	2217.8	2562.1	1563.8	1239.2	242.6	308.2
85°	26.2	21.3	36.0	136.1	236.1	680.2	2375.3	1314.7	1032.7	118.0	234.4
87.5°	4.9	4.9	14.7	55.8	95.1	208.1	1404.8	780.3	523.0	70.4	160.6
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°	6197.9	6197.9	6197.9	6197.9	6197.9	6197.9	6197.9	6197.9	6197.9	6197.9	6197.9
2.5°	6178.3	6107.8	6012.6	5896.2	5758.7	5637.4	5547.2	5453.7	5434.0	5401.2	5396.3
5°	6137.3	6015.9	5780.0	5509.5	5220.9	4960.4	4748.8	4560.3	4476.8	4404.6	4396.5
7.5°	6076.7	5894.7	5493.0	5057.0	4606.1	4196.4	3848.9	3603.0	3376.8	3268.7	3252.3
10°	6006.1	5745.5	5170.1	4565.2	3942.3	3363.8	2847.4	2414.6	2152.2	1996.6	1976.9
12.5°	5940.5	5599.6	4840.6	4055.5	3227.6	2453.9	1790.1	1376.9	1101.5	990.1	976.9
15°	5909.4	5481.5	4532.5	3534.2	2480.1	1562.2	978.7	757.4	667.3	640.9	639.4
17.5°	5906.1	5381.6	4230.8	2994.9	1737.6	908.1	637.6	581.9	563.9	557.4	557.4
20°	5904.5	5286.4	3929.2	2435.8	1103.2	604.9	531.1	518.1	504.8	496.8	496.8
22.5°	5922.5	5201.2	3614.5	1865.4	695.0	490.1	467.2	454.1	437.7	426.2	424.5
25°	5940.5	5135.7	3293.1	1327.8	503.2	426.2	403.2	385.3	362.2	347.6	345.8
27.5°	5943.8	5053.8	2949.0	888.5	421.2	372.1	342.7	314.8	288.4	273.8	272.0
30°	5894.7	4916.1	2567.0	600.0	372.1	322.9	283.5	254.1	229.4	218.0	218.0
32.5°	5797.9	4745.6	2147.4	452.4	331.1	277.0	234.4	206.5	190.1	185.2	183.7
35°	5711.1	4562.0	1716.3	383.5	296.7	234.4	191.8	173.7	163.9	162.2	160.6
37.5°	5660.2	4414.5	1311.3	347.6	263.9	196.6	162.2	149.2	144.3	140.9	142.7
40°	5699.6	4291.6	968.8	318.0	231.1	163.9	137.7	131.2	126.2	124.5	124.5
42.5°	5871.7	4270.3	719.6	291.8	200.1	136.1	119.7	114.8	111.5	109.9	111.5
45°	6324.2	4401.3	558.9	267.2	168.8	114.8	101.6	100.0	98.4	98.4	98.4
47.5°	7004.4	4671.7	465.5	239.3	140.9	98.4	88.6	86.9	85.2	86.9	86.9
50°	8156.8	5166.8	416.4	211.5	116.4	83.6	75.4	75.4	75.4	75.4	77.1
52.5°	9909.2	6140.5	383.5	183.7	95.1	70.4	63.9	63.9	65.5	65.5	67.3
55°	11861.4	7432.2	354.1	155.8	80.3	59.0	52.5	54.1	55.8	57.4	57.4
57.5°	13979.3	8863.2	329.5	127.9	68.8	47.5	44.2	46.0	47.5	50.8	50.8
60°	16534.8	10412.3	293.4	100.0	57.4	37.6	34.5	37.6	42.6	46.0	47.5
62.5°	19341.2	11910.5	247.6	78.7	47.5	29.6	27.8	34.5	41.1	44.2	46.0
65°	21259.1	12381.1	190.1	63.9	36.0	21.3	22.9	31.1	39.3	44.2	44.2
67°	20482.2	11225.4	155.8	54.1	29.6	16.3	21.3	31.1	39.3	42.6	44.2
67.5°	19942.8	10773.1	149.2	52.5	27.8	16.3	21.3	31.1	39.3	44.2	44.2
70°	16226.8	8092.9	124.5	39.3	22.9	14.7	18.1	29.6	37.6	42.6	42.6
72.5°	11274.5	4989.8	111.5	27.8	19.7	13.1	16.3	27.8	36.0	41.1	42.6
75°	5360.2	1806.4	95.1	21.3	18.1	11.5	14.7	27.8	36.0	41.1	41.1
77.5°	1093.3	419.7	77.1	18.1	14.7	11.5	13.1	26.2	34.5	39.3	39.3
80°	359.1	162.2	57.4	16.3	14.7	11.5	13.1	24.7	34.5	37.6	39.3
82.5°	259.0	81.9	37.6	16.3	14.7	11.5	11.5	24.7	32.8	37.6	37.6
85°	198.3	57.4	24.7	16.3	14.7	11.5	11.5	22.9	31.1	36.0	36.0
87.5°	131.2	22.9	19.7	16.3	14.7	11.5	11.5	22.9	29.6	34.5	36.0
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)