

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: P191125

Luminaire Tested: **GLEON-AF-07-LED-E1-SL3-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191125
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-SL3-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 29728 lumens
Efficiency: N/A
Efficacy: 100.8 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

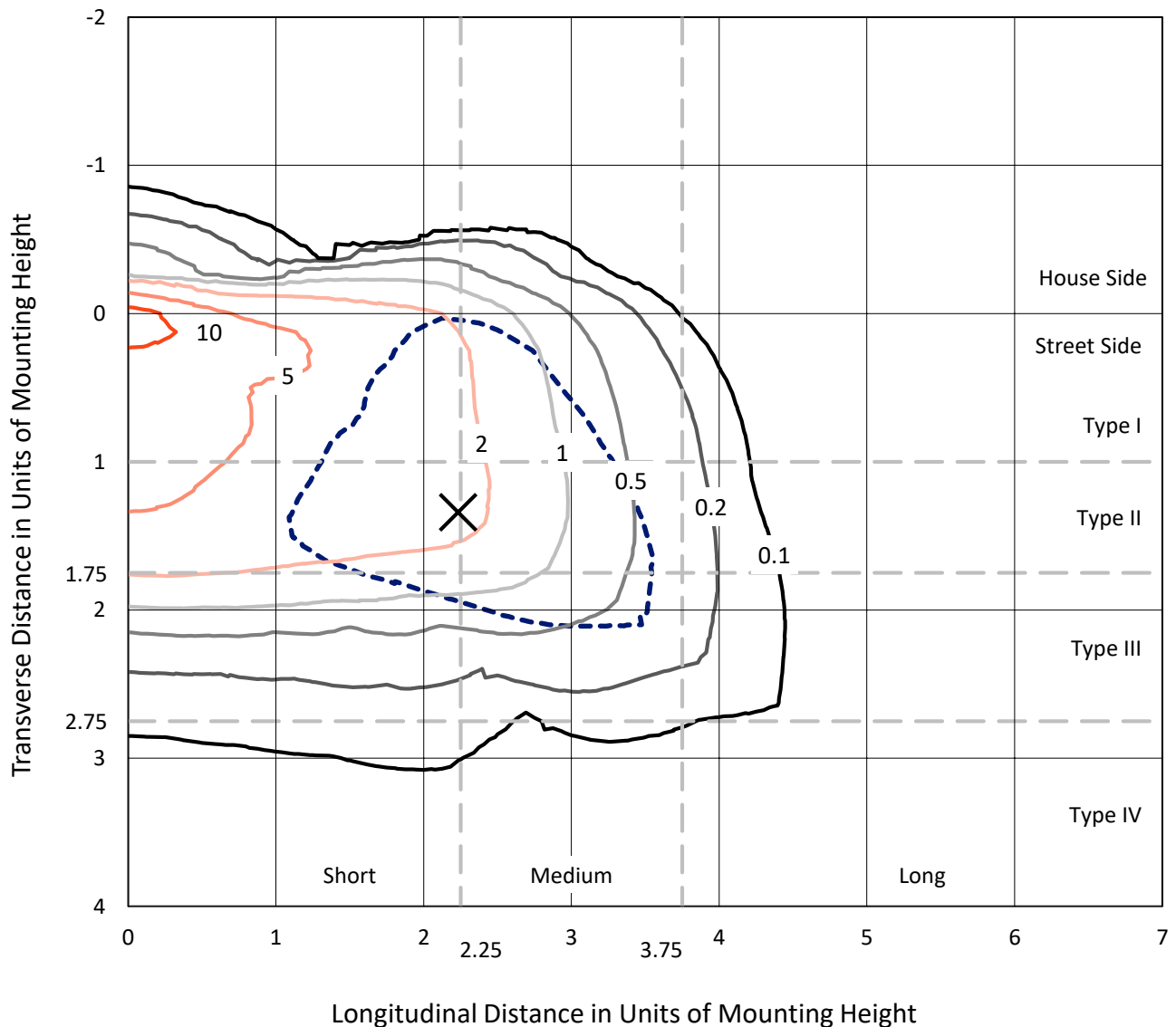
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

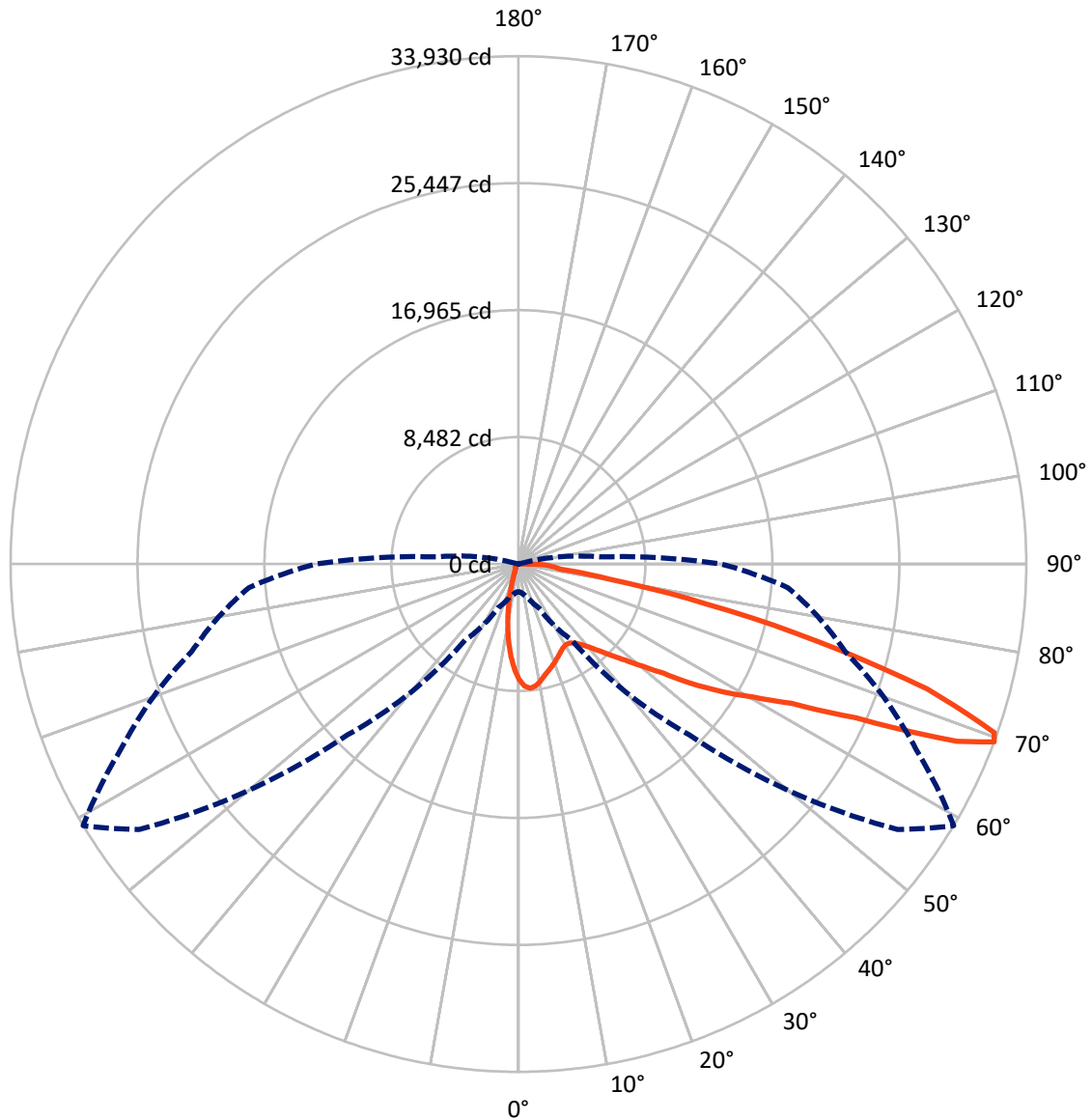
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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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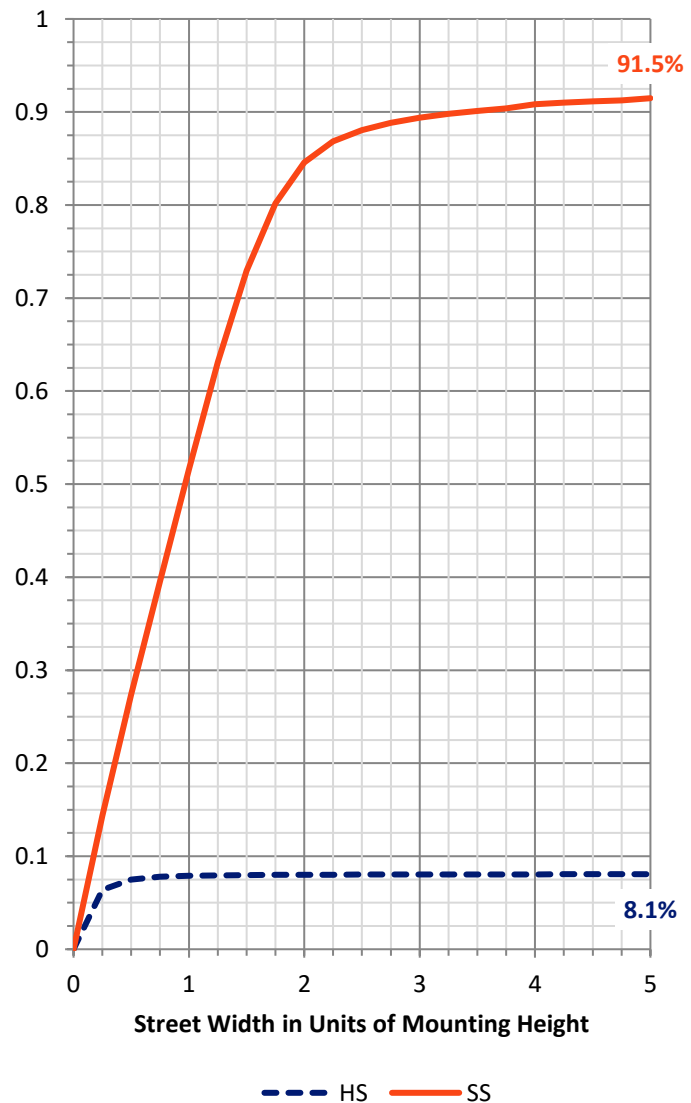
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2421.0	0.0	2421.0
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	27307.0	0.0	27307.0
	% Fixture	91.9	0.0	91.9
Total	Lumens	29728.0	0.0	29728.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	628.1	2.1
10°-20°	1297.8	4.4
20°-30°	1746.3	5.9
30°-40°	2535.6	8.5
40°-50°	4221.9	14.2
50°-60°	6586.1	22.2
60°-70°	8149.8	27.4
70°-80°	4130.2	13.9
80°-90°	432.2	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°	29728.0	100.0
0°-180°	29728.0	100.0



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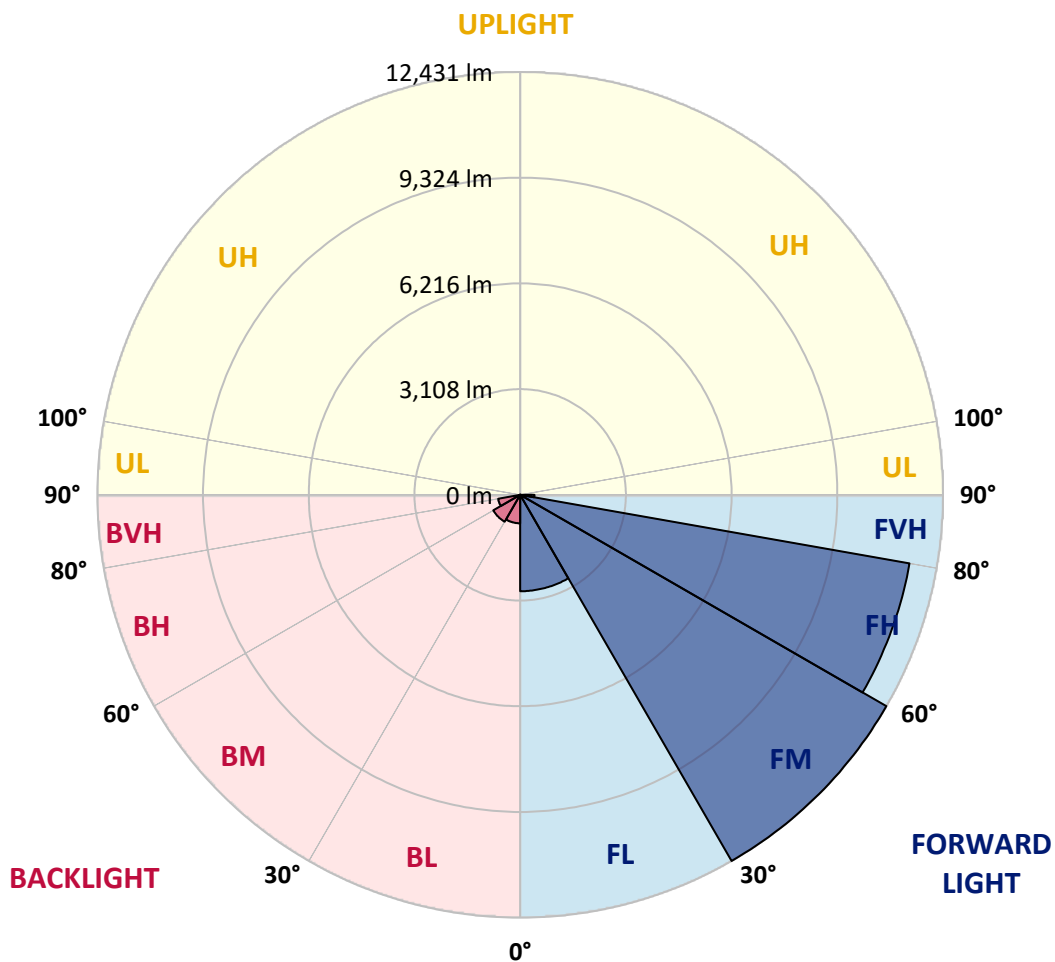
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2834.2	9.5			
FM	(30°-60°)	12431.4	41.8			
FH	(60°-80°)	11622.6	39.1			G4/12000
FVH	(80°-90°)	418.9	1.4			G3/500
BL	(0°-30°)	838.0	2.8	B2/1000		
BM	(30°-60°)	912.2	3.1	B1/1000		
BH	(60°-80°)	657.5	2.2	B2/1000		G2/1000
BVH	(80°-90°)	13.3	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°	7737.8	7737.8	7737.8	7737.8	7737.8	7737.8	7737.8	7737.8	7737.8	7737.8	7737.8
2.5°	8480.8	8477.4	8440.5	8423.6	8393.4	8329.5	8230.4	8178.2	8094.2	7947.9	7751.2
5°	8403.4	8443.8	8465.6	8467.4	8489.2	8465.6	8376.5	8332.9	8216.9	7981.6	7628.6
7.5°	7879.0	7894.1	7956.3	8010.1	8114.4	8213.5	8245.5	8227.0	8158.0	7905.9	7436.9
10°	7317.5	7332.6	7406.6	7477.3	7618.4	7771.4	7932.8	7966.4	7995.0	7798.3	7252.0
12.5°	6833.4	6848.6	6924.1	7016.6	7181.3	7369.6	7620.1	7675.6	7801.6	7695.8	7104.0
15°	6416.5	6423.2	6497.2	6611.5	6808.1	7050.3	7334.4	7423.5	7616.8	7623.4	6974.6
17.5°	6061.8	6078.6	6124.0	6233.2	6448.5	6747.7	7078.8	7206.6	7433.5	7563.0	6848.6
20°	5844.9	5861.7	5860.1	5920.6	6113.9	6433.3	6823.3	6976.3	7252.0	7500.8	6735.9
22.5°	5802.9	5802.9	5759.2	5750.8	5865.1	6132.4	6557.7	6744.3	7088.9	7473.9	6656.9
25°	5952.6	5945.8	5836.5	5747.4	5752.5	5912.1	6300.5	6522.4	6951.1	7492.4	6614.8
27.5°	6268.5	6260.2	6122.4	5952.6	5816.4	5814.7	6105.5	6344.2	6841.8	7579.8	6631.7
30°	6705.6	6702.3	6552.6	6339.1	6092.1	5865.1	6038.3	6255.1	6771.2	7737.8	6670.4
32.5°	7183.1	7178.0	7065.4	6840.1	6527.4	6092.1	6108.9	6290.4	6791.4	7947.9	6764.5
35°	7689.0	7680.6	7631.8	7435.2	7090.6	6510.7	6340.9	6482.0	6919.1	8262.3	6949.4
37.5°	8237.0	8245.5	8280.8	8092.5	7731.1	7097.3	6729.2	6825.0	7176.3	8689.3	7250.3
40°	9045.6	9043.9	9055.7	8808.6	8460.6	7815.1	7272.2	7302.4	7606.7	9255.8	7707.5
42.5°	10513.2	10410.6	10099.6	9595.3	9245.6	8635.4	7956.3	7924.4	8132.9	9956.8	8348.0
45°	12485.0	12266.5	11459.6	10493.0	10045.8	9560.0	8798.5	8696.0	8828.8	10799.0	9138.1
47.5°	14181.2	13954.3	12812.8	11427.7	10894.7	10437.5	9785.2	9600.4	9644.1	11742.0	10140.0
50°	14757.8	14646.8	13649.9	12241.2	11716.8	11542.0	10930.0	10704.8	10642.6	12833.0	11301.6
52.5°	14557.7	14549.3	13885.3	12769.1	12469.9	12685.1	12370.7	12110.1	11881.5	13982.8	12483.4
55°	14236.6	14278.7	13981.1	13231.4	13221.3	13728.9	14340.8	14124.0	13461.7	15231.8	13502.0
57.5°	13350.7	13530.6	13927.4	14105.6	14519.0	15038.5	15981.6	16109.3	15326.0	16188.3	14347.6
60°	10832.5	11227.6	12525.3	14231.6	16191.7	17486.1	17961.8	18071.0	16855.7	16983.4	15489.0
62.5°	7689.0	8092.5	9738.2	12624.5	16216.9	20701.9	20912.0	20483.4	18540.1	18161.9	17457.5
65°	4081.6	4392.6	5737.3	9112.9	14060.2	21448.2	26071.1	24793.5	21512.1	20480.0	20000.9
67.5°	2087.8	2182.0	2716.5	4459.8	9666.0	19051.1	30695.6	31595.0	26634.3	22779.7	19878.2
69°	1847.4	1902.9	2257.7	3224.2	6189.6	16136.2	30920.8	33929.9	29315.5	22588.0	18064.4
70°	1788.6	1837.3	2160.2	2918.3	4838.0	13532.3	30058.5	33724.8	30001.3	21858.4	16709.4
72.5°	1518.0	1560.0	1923.1	2578.7	3931.9	6717.4	24416.9	28577.5	26921.7	18208.9	12095.0
75°	1015.4	1153.2	1845.8	2417.3	3658.0	3815.9	16097.6	20651.4	19183.9	12281.6	6300.5
77.5°	243.8	262.3	521.1	1923.1	3345.3	3358.7	8279.0	12838.0	10471.1	4377.4	1489.4
80°	131.1	126.0	146.3	381.6	3115.0	3151.9	3726.8	6231.6	3738.6	726.2	490.8
82.5°	92.5	87.5	94.1	159.7	980.1	2871.2	2696.4	2820.8	1549.9	279.1	220.2
85°	33.7	31.9	52.1	144.5	307.6	1650.7	2770.4	2326.5	1255.8	127.8	161.4
87.5°	11.8	10.1	20.2	79.0	94.1	702.7	1709.7	1758.4	494.2	77.3	75.6
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°	7737.8	7737.8	7737.8	7737.8	7737.8	7737.8	7737.8	7737.8	7737.8	7737.8	7737.8
2.5°	7668.9	7564.6	7373.0	7176.3	6994.7	6776.2	6667.0	6559.4	6513.9	6497.2	6418.2
5°	7447.0	7270.4	6863.7	6455.1	6078.6	5678.5	5414.6	5202.8	5078.4	5017.9	4922.0
7.5°	7162.9	6873.7	6256.8	5626.4	5039.8	4461.5	4032.8	3703.3	3476.4	3367.1	3267.9
10°	6887.2	6502.2	5624.7	4765.7	3968.9	3202.3	2610.7	2182.0	1908.0	1781.9	1701.2
12.5°	6640.1	6140.8	5014.5	3926.9	2926.7	2029.0	1427.2	1086.0	916.2	857.3	828.8
15°	6419.8	5808.0	4438.0	3130.1	1982.0	1159.9	780.0	664.0	637.1	637.1	633.7
17.5°	6211.4	5481.8	3881.5	2382.0	1244.0	709.4	593.4	578.3	578.3	585.0	585.0
20°	6011.4	5170.8	3343.6	1709.7	783.4	563.1	536.2	532.9	536.2	544.6	544.6
22.5°	5839.9	4888.5	2840.9	1173.3	581.6	507.7	494.2	489.2	490.8	495.9	499.3
25°	5712.2	4649.7	2366.9	795.1	500.9	462.3	447.1	438.7	432.0	432.0	435.4
27.5°	5631.4	4448.0	1908.0	578.3	450.5	420.2	396.7	383.3	368.2	359.8	363.1
30°	5572.6	4256.4	1477.7	472.4	403.5	373.2	342.9	321.1	299.2	289.2	292.5
32.5°	5550.7	4101.7	1104.5	416.9	361.4	327.8	290.8	262.3	238.8	230.3	232.0
35°	5609.6	3979.0	808.5	376.5	327.8	285.8	243.8	211.9	193.3	188.3	190.0
37.5°	5764.2	3913.4	605.2	342.9	297.6	250.5	203.4	173.2	161.4	161.4	163.1
40°	6056.8	3911.8	485.8	319.4	270.7	216.9	168.1	146.3	139.5	142.9	144.5
42.5°	6483.8	4000.9	423.6	297.6	247.1	184.9	139.5	124.4	122.8	126.0	127.8
45°	7067.1	4163.9	389.9	279.1	221.9	154.7	117.6	107.6	107.6	112.6	114.3
47.5°	7781.5	4402.6	361.4	260.5	196.7	129.4	100.9	94.1	95.9	100.9	102.5
50°	8642.2	4703.5	332.9	240.4	178.2	107.6	87.5	82.3	84.1	90.7	92.5
52.5°	9622.2	5108.6	309.3	221.9	154.7	89.1	74.0	70.6	74.0	80.7	82.3
55°	10462.7	5471.8	280.7	206.7	124.4	74.0	60.6	60.6	63.8	72.3	74.0
57.5°	11271.3	5851.7	255.5	178.2	97.5	58.8	50.4	52.1	57.2	65.6	67.2
60°	12458.1	6495.5	225.3	149.7	74.0	47.1	42.0	43.7	50.4	58.8	60.6
62.5°	14473.6	7475.5	195.0	124.4	57.2	37.0	33.7	37.0	45.4	55.4	57.2
65°	16292.5	7874.0	159.7	104.2	43.7	28.5	28.5	33.7	43.7	53.8	55.4
67.5°	15278.9	6628.3	124.4	82.3	33.7	21.9	23.5	31.9	42.0	53.8	55.4
69°	13512.2	5419.6	105.9	65.6	28.5	20.2	21.9	31.9	42.0	52.1	53.8
70°	12135.4	4575.8	94.1	55.4	25.2	20.2	21.9	30.3	42.0	52.1	53.8
72.5°	8127.8	2471.1	75.6	40.3	23.5	18.5	18.5	30.3	40.3	50.4	52.1
75°	3493.2	682.5	60.6	28.5	20.2	16.8	16.8	28.5	38.7	48.8	52.1
77.5°	638.8	173.2	48.8	25.2	20.2	16.8	15.1	26.9	37.0	47.1	48.8
80°	253.8	85.7	38.7	21.9	18.5	15.1	13.4	25.2	35.3	45.4	47.1
82.5°	152.9	48.8	31.9	20.2	18.5	13.4	11.8	21.9	33.7	43.7	45.4
85°	124.4	33.7	25.2	20.2	16.8	13.4	10.1	20.2	30.3	42.0	43.7
87.5°	60.6	23.5	23.5	18.5	16.8	13.4	10.1	18.5	28.5	40.3	42.0
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)