

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: P300949

Luminaire Tested: **GLNA-AF-09-LED-E1-SL4-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300949
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLNA-AF-09-LED-E1-SL4-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Wide OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39375.8 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

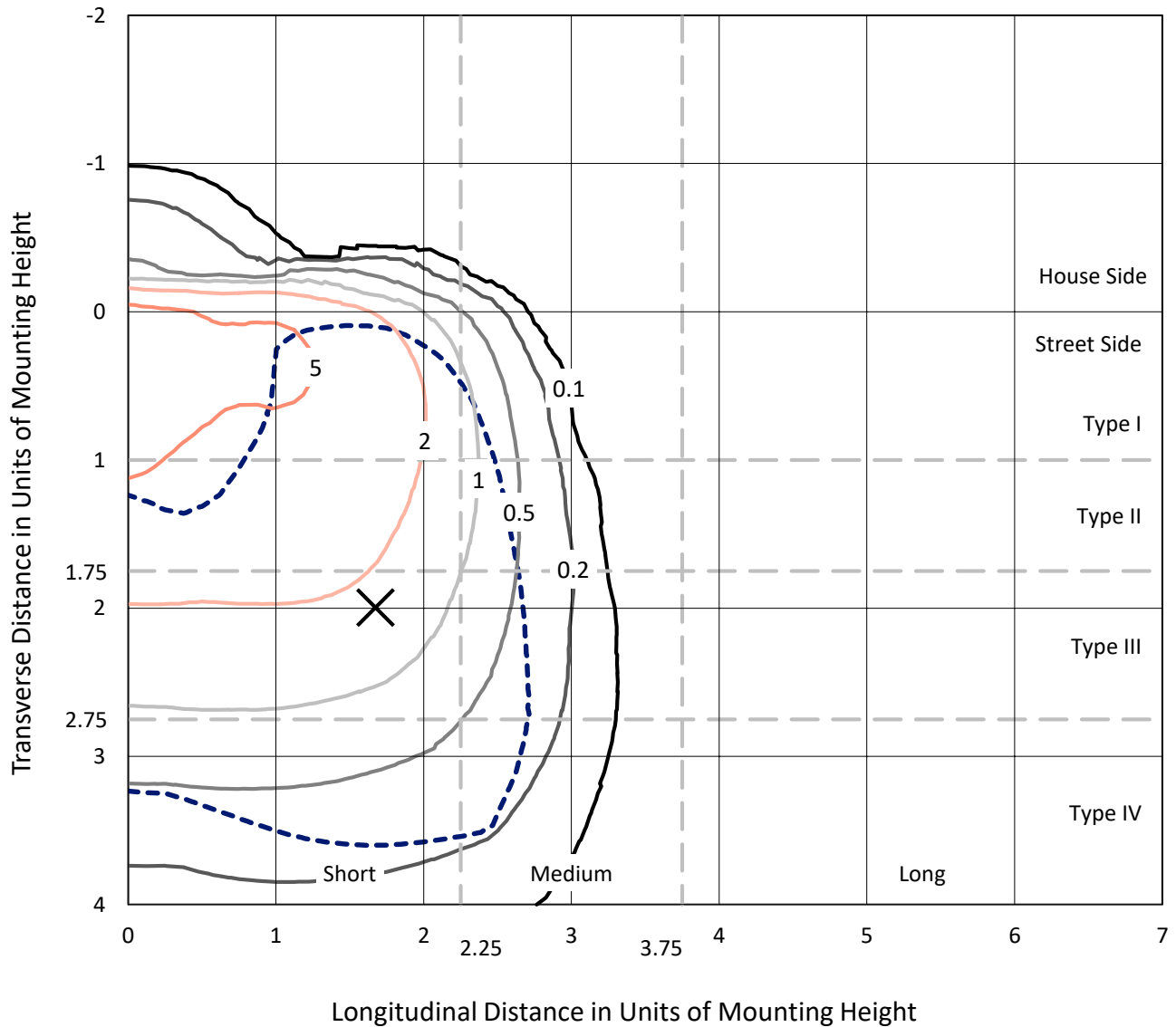
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P300949
 CATALOG NUMBER: GLNA-AF-09-LED-E1-SL4-7030-800

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

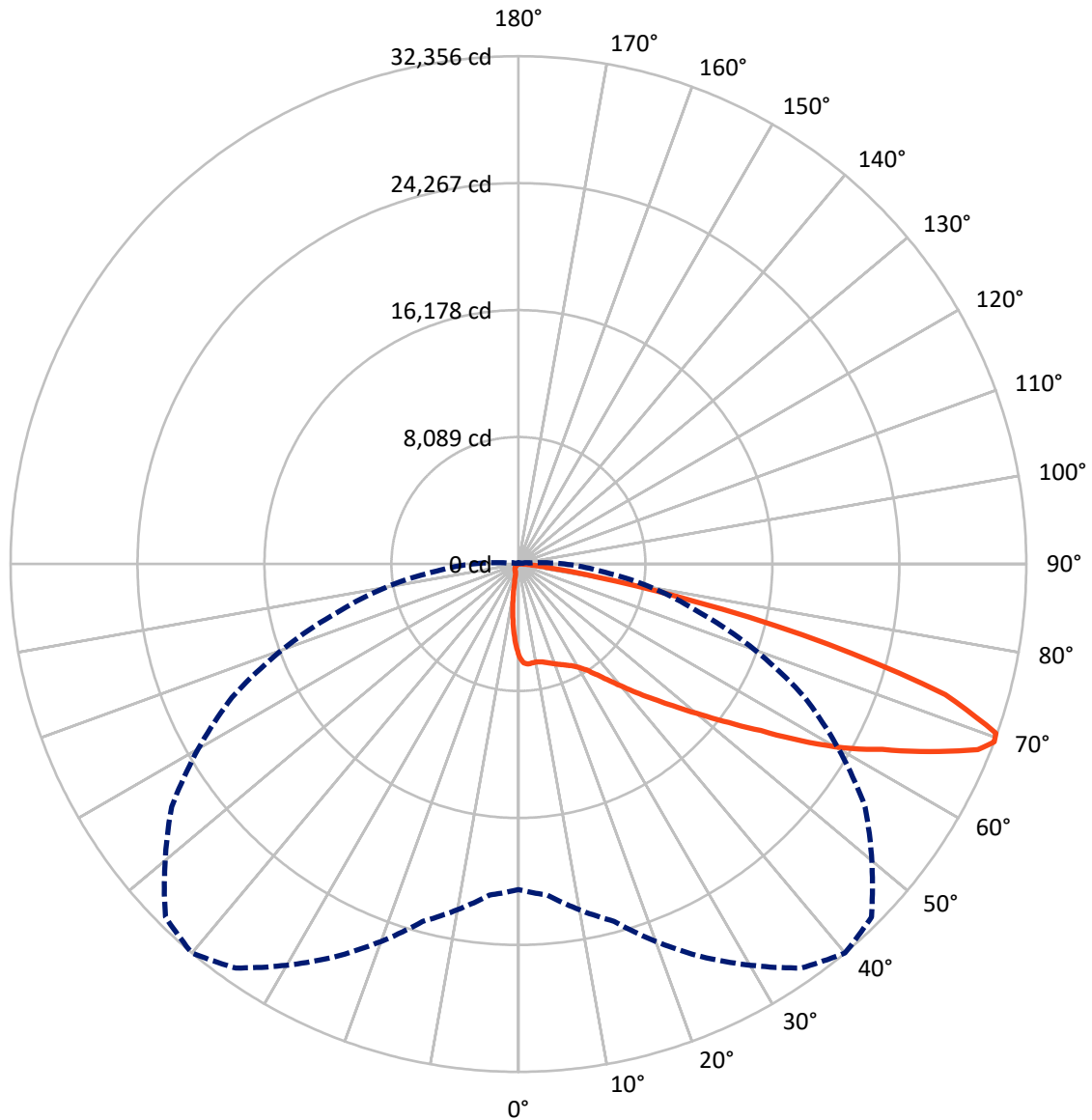


Based on 30 foot mounting height. Maximum calculated value = 7.2 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P300949

CATALOG NUMBER: GLNA-AF-09-LED-E1-SL4-7030-800

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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CATALOG NUMBER: GLNA-AF-09-LED-E1-SL4-7030-800

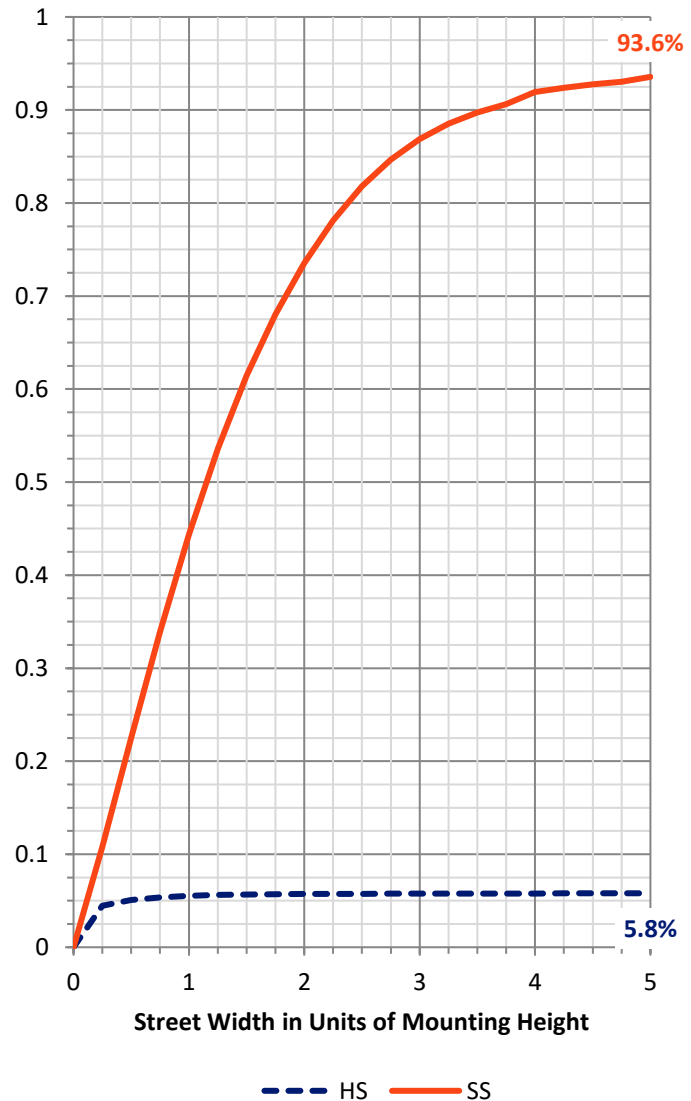
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2303.7	0.0	2303.7
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	37072.1	0.0	37072.1
	% Fixture	94.1	0.0	94.1
Total	Lumens	39375.8	0.0	39375.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.0	1.2
10°-20°	1173.0	3.0
20°-30°	1975.8	5.0
30°-40°	3234.4	8.2
40°-50°	5600.2	14.2
50°-60°	8820.9	22.4
60°-70°	11519.7	29.3
70°-80°	5933.2	15.1
80°-90°	641.8	1.6
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°	39375.8	100.0
0°-180°	39375.8	100.0



REPORT NUMBER: P300949

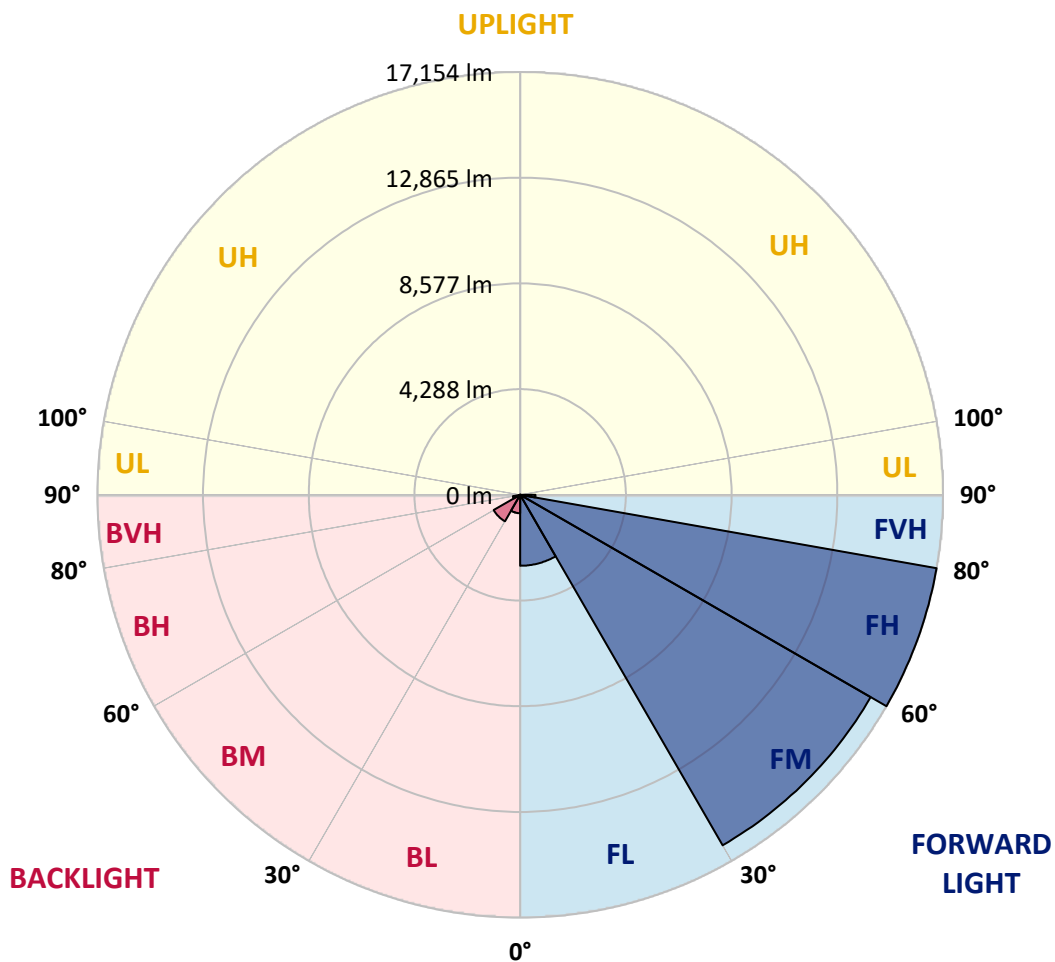
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2879.5	7.3			
FM	(30°-60°)	16417.3	41.7			
FH	(60°-80°)	17153.7	43.6			G5
FVH	(80°-90°)	621.6	1.6			G4/750
BL	(0°-30°)	746.2	1.9	B2/1000		
BM	(30°-60°)	1238.2	3.1	B2/2500		
BH	(60°-80°)	299.1	0.8	B1/500		G1/500
BVH	(80°-90°)	20.1	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5883.0	5883.0	5883.0	5883.0	5883.0	5883.0	5883.0	5883.0	5883.0	5883.0	5883.0
2.5°	6459.5	6424.4	6403.3	6375.2	6340.0	6309.5	6297.8	6211.1	6129.1	6016.5	5887.6
5°	6579.1	6567.3	6529.8	6492.3	6450.2	6403.3	6377.5	6274.4	6157.2	5993.1	5768.1
7.5°	6590.8	6576.7	6529.8	6478.3	6419.7	6363.4	6318.9	6215.8	6108.0	5941.5	5667.3
10°	6572.0	6555.6	6520.5	6464.2	6391.6	6337.7	6293.1	6194.7	6103.3	5953.3	5648.6
12.5°	6550.9	6534.5	6518.1	6490.0	6426.7	6389.2	6351.7	6258.0	6175.9	6049.4	5716.5
15°	6572.0	6562.7	6581.4	6569.7	6534.5	6501.7	6464.2	6379.8	6304.8	6199.4	5840.8
17.5°	6661.1	6661.1	6719.7	6726.7	6693.9	6647.0	6593.1	6508.7	6445.5	6356.4	5988.4
20°	6869.7	6862.7	6937.7	6951.7	6872.0	6799.4	6719.7	6616.6	6567.3	6511.1	6133.7
22.5°	7228.3	7195.5	7240.0	7226.0	7068.9	6956.4	6858.0	6731.4	6705.6	6679.8	6295.5
25°	7694.7	7676.0	7706.4	7568.1	7291.6	7139.2	7022.0	6879.1	6879.1	6904.9	6478.3
27.5°	8372.1	8301.8	8198.6	7954.9	7540.0	7345.5	7218.9	7066.6	7106.4	7202.5	6719.7
30°	9065.8	8988.5	8751.8	8376.8	7842.4	7638.5	7490.8	7331.4	7425.2	7601.0	7043.1
32.5°	9750.2	9663.5	9328.3	8854.9	8276.0	8072.1	7929.1	7753.3	7910.3	8205.7	7516.6
35°	10413.5	10336.2	9949.5	9391.6	8852.6	8683.8	8552.5	8400.2	8601.8	9014.3	8184.6
37.5°	11158.9	11074.5	10603.4	9998.7	9553.4	9431.5	9335.4	9183.0	9534.6	10139.3	9115.1
40°	12075.3	11932.3	11297.1	10694.8	10364.3	10305.7	10240.1	10219.0	10765.1	11601.8	10354.9
42.5°	13125.3	12890.9	12023.7	11428.4	11255.0	11297.1	11280.7	11374.5	12305.0	13420.6	11864.3
45°	14175.3	13873.0	12832.3	12211.2	12234.7	12382.3	12473.7	12848.7	14233.9	15506.6	13488.6
47.5°	15066.0	14768.3	13608.1	13057.3	13338.6	13629.2	13877.7	14587.8	16216.8	17559.8	14751.9
50°	15827.7	15546.5	14430.8	13987.8	14620.7	15089.4	15492.6	16544.9	18349.7	19123.1	15637.9
52.5°	16451.2	16263.7	15284.0	15054.3	16085.5	16772.3	17362.9	18623.9	20238.8	20393.5	16327.0
55°	17058.2	16924.6	16200.4	16322.3	17805.9	18741.1	19488.7	20829.4	21865.4	21452.9	16987.9
57.5°	17756.7	17634.8	17245.7	17930.1	20067.7	21244.3	22059.9	22784.1	23297.4	22535.7	17611.4
60°	18469.2	18398.9	18408.2	19716.1	22664.6	23794.3	24244.3	24431.8	24703.7	23555.2	17646.5
62.5°	19148.9	19282.5	19737.2	21703.6	25151.4	26018.6	26245.9	26431.1	26112.3	23717.0	16303.5
65°	20299.7	20517.7	21602.9	24363.9	27886.6	28814.7	29049.1	28414.0	26335.0	21626.3	13261.3
67.5°	20862.2	21260.7	23196.6	26843.6	30539.8	31571.1	31484.3	28542.9	23632.6	16491.0	8510.4
69°	20745.0	21169.3	23564.6	27603.0	31421.1	32356.2	31805.4	26965.5	20133.3	11946.4	5224.3
70°	20281.0	20709.9	23374.8	27574.9	31533.6	32274.2	31210.1	25017.8	17023.1	8735.4	3267.3
72.5°	16936.3	17306.7	20752.1	24924.0	29049.1	28446.8	26110.0	17332.4	8294.7	2379.0	736.0
75°	10425.2	10631.5	14890.2	18776.2	21940.4	20393.5	17395.7	8622.9	2472.7	672.7	407.8
77.5°	5507.9	5601.7	8151.8	11067.5	13908.1	11508.1	8915.8	3363.4	1139.1	421.9	295.3
80°	3255.5	3325.9	4389.9	5060.3	6018.9	5027.5	3564.9	2064.9	815.6	264.9	262.5
82.5°	1863.3	1907.9	3182.9	2812.6	2371.9	2025.0	1774.3	1957.1	489.9	178.1	271.9
85°	684.4	693.8	1790.7	2139.9	1411.0	839.1	881.3	1621.9	131.3	112.5	213.3
87.5°	318.8	311.7	921.1	1310.2	825.0	532.0	686.7	356.3	51.6	72.7	58.6
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°	5883.0	5883.0	5883.0	5883.0	5883.0	5883.0	5883.0	5883.0	5883.0	5883.0	5883.0
2.5°	5812.6	5725.9	5568.9	5407.2	5243.1	5116.5	4992.3	4893.9	4861.1	4800.1	4804.8
5°	5634.5	5475.1	5147.0	4814.2	4467.3	4181.3	3911.8	3693.8	3588.4	3480.6	3480.6
7.5°	5479.8	5247.8	4734.5	4193.1	3632.9	3161.8	2737.6	2418.8	2243.0	2102.4	2100.0
10°	5421.2	5107.2	4389.9	3614.1	2833.7	2191.5	1687.5	1364.1	1197.7	1089.9	1085.2
12.5°	5447.0	5057.9	4125.1	3079.8	2100.0	1408.6	977.4	768.8	698.5	665.6	665.6
15°	5522.0	5043.9	3860.2	2557.1	1483.6	881.3	649.2	593.0	588.3	588.3	588.3
17.5°	5613.4	5048.6	3588.4	2048.5	1010.2	630.5	560.2	553.1	557.8	557.8	557.8
20°	5707.2	5050.9	3295.4	1577.4	712.5	548.5	527.4	525.0	529.7	529.7	532.0
22.5°	5822.0	5062.6	3002.4	1178.9	588.3	518.0	501.6	501.6	503.9	503.9	501.6
25°	5953.3	5086.1	2697.7	874.2	536.7	496.9	482.8	480.5	482.8	480.5	478.1
27.5°	6117.3	5118.9	2357.9	684.4	513.3	475.8	464.1	464.1	461.7	459.4	457.0
30°	6323.6	5156.4	1975.8	581.3	489.9	457.0	445.3	443.0	440.6	435.9	435.9
32.5°	6637.7	5238.4	1598.5	527.4	464.1	431.3	421.9	421.9	417.2	412.5	410.2
35°	7120.5	5400.1	1261.0	494.5	435.9	403.1	391.4	391.4	386.7	384.4	382.0
37.5°	7788.5	5646.2	979.7	464.1	407.8	372.7	360.9	358.6	353.9	349.2	346.9
40°	8676.8	5950.9	771.1	435.9	379.7	342.2	332.8	328.1	318.8	311.7	311.7
42.5°	9792.4	6297.8	625.8	405.5	346.9	314.1	307.0	300.0	283.6	276.6	274.2
45°	10959.6	6609.5	529.7	370.3	314.1	285.9	281.3	269.5	248.4	241.4	241.4
47.5°	11801.1	6682.2	466.4	337.5	283.6	255.5	253.1	232.0	213.3	208.6	206.3
50°	12326.1	6539.2	414.9	304.7	255.5	227.3	220.3	194.5	182.8	178.1	175.8
52.5°	12680.0	6283.7	372.7	276.6	229.7	201.6	185.2	166.4	157.0	152.3	152.3
55°	12963.6	5922.8	330.5	250.8	208.6	180.5	157.0	143.0	133.6	128.9	128.9
57.5°	13043.3	5432.9	288.3	229.7	187.5	159.4	133.6	124.2	112.5	110.2	110.2
60°	12464.4	4549.3	255.5	203.9	168.8	138.3	117.2	105.5	93.8	91.4	89.1
62.5°	10938.5	3520.4	225.0	180.5	147.7	119.5	100.8	86.7	77.3	77.3	77.3
65°	8343.9	2360.2	196.9	157.0	128.9	100.8	86.7	70.3	65.6	65.6	68.0
67.5°	4994.6	1284.4	168.8	133.6	110.2	84.4	72.7	60.9	58.6	60.9	60.9
69°	2927.4	754.7	152.3	119.5	96.1	75.0	63.3	53.9	58.6	60.9	60.9
70°	1807.1	508.6	140.6	107.8	86.7	68.0	58.6	51.6	56.3	58.6	58.6
72.5°	503.9	262.5	112.5	84.4	70.3	56.3	46.9	46.9	53.9	56.3	56.3
75°	328.1	194.5	86.7	63.3	53.9	44.5	39.8	44.5	51.6	53.9	53.9
77.5°	271.9	159.4	70.3	51.6	44.5	42.2	37.5	39.8	46.9	49.2	49.2
80°	248.4	112.5	56.3	46.9	39.8	37.5	35.2	32.8	42.2	44.5	44.5
82.5°	236.7	89.1	49.2	42.2	37.5	32.8	30.5	32.8	37.5	39.8	42.2
85°	147.7	58.6	44.5	39.8	32.8	30.5	30.5	30.5	35.2	37.5	37.5
87.5°	53.9	46.9	39.8	32.8	28.1	28.1	28.1	28.1	30.5	35.2	35.2
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)