

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: P533017

Luminaire Tested: **GALN-SA8B-830-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533017
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-830-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21353 lumens
Efficiency: N/A
Efficacy: 65.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 325
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: 24 FT

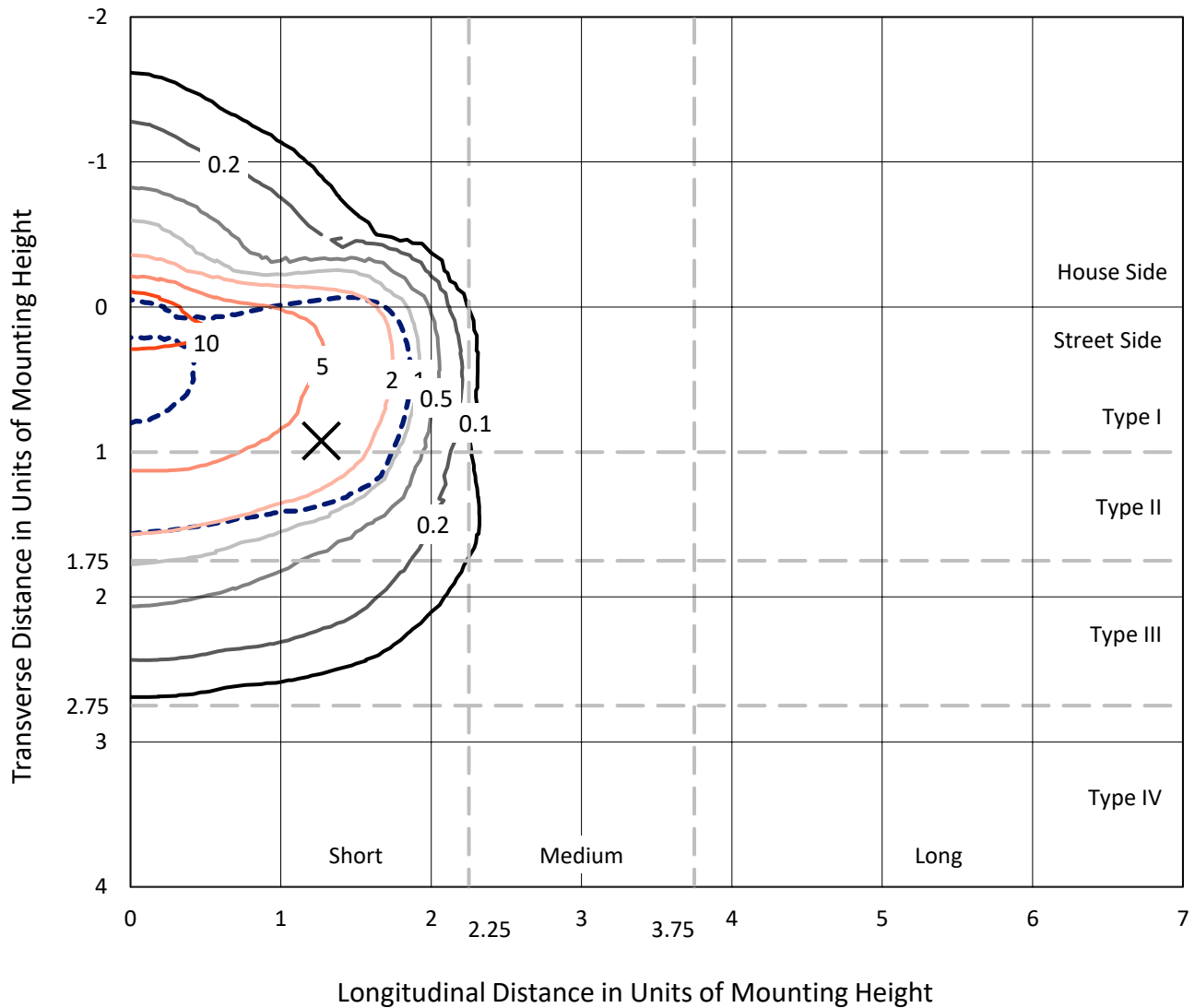


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

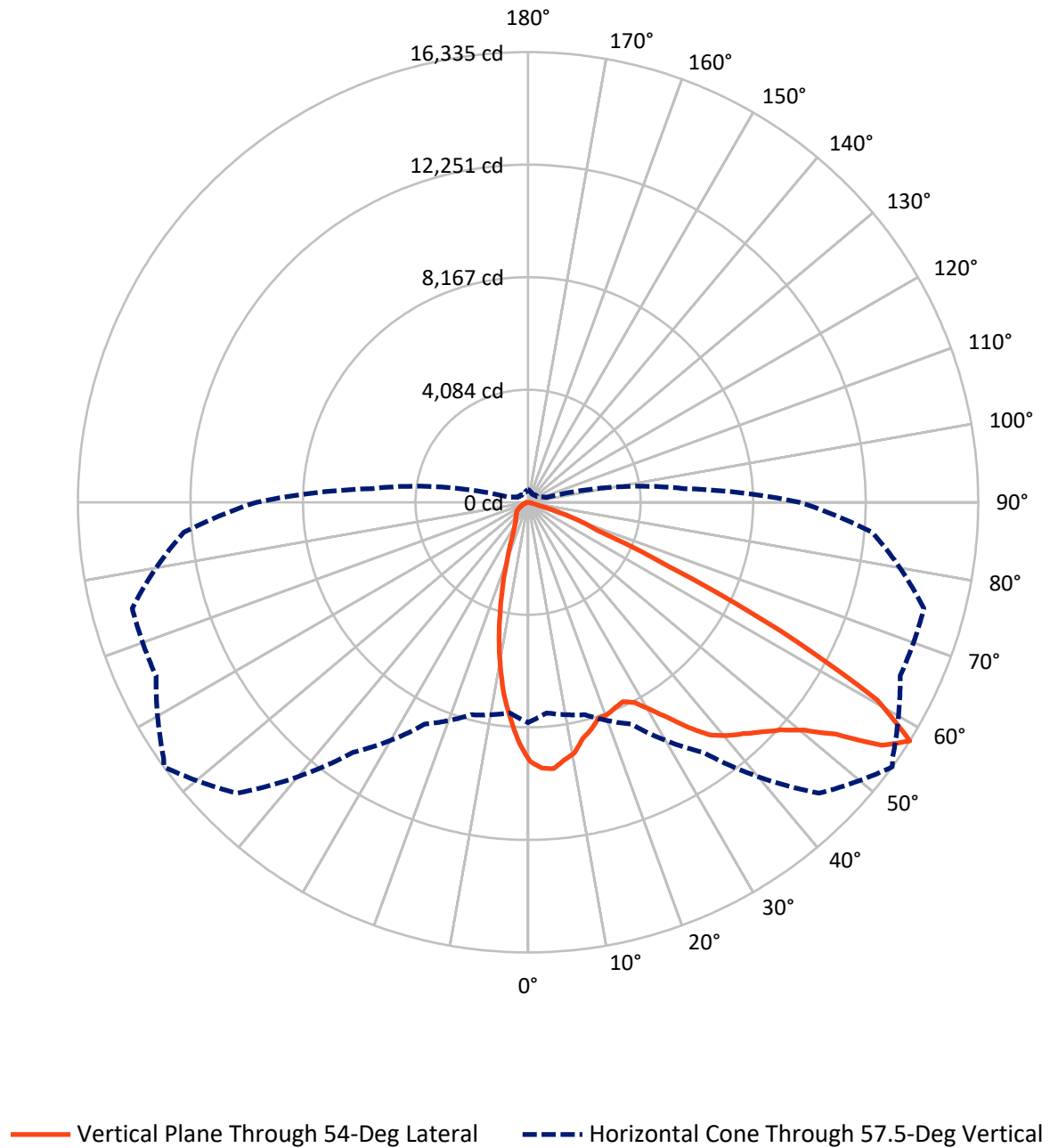


Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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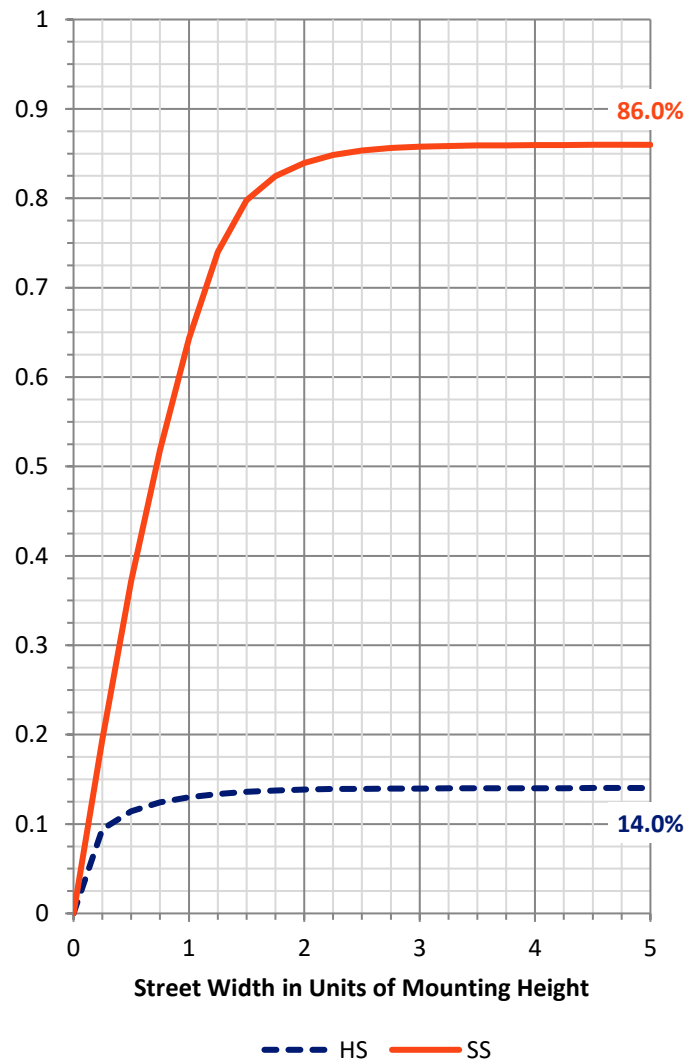
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3017.5	0.0	3017.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	18335.5	0.0	18335.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	21353.0	0.0	21353.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	787.1	3.7
10°-20°	1680.5	7.9
20°-30°	2227.0	10.4
30°-40°	3236.5	15.2
40°-50°	4799.3	22.5
50°-60°	6001.3	28.1
60°-70°	2367.2	11.1
70°-80°	235.7	1.1
80°-90°	18.3	0.1
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°	21353.0	100.0
0°-180°	21353.0	100.0

Coefficient of Utilization



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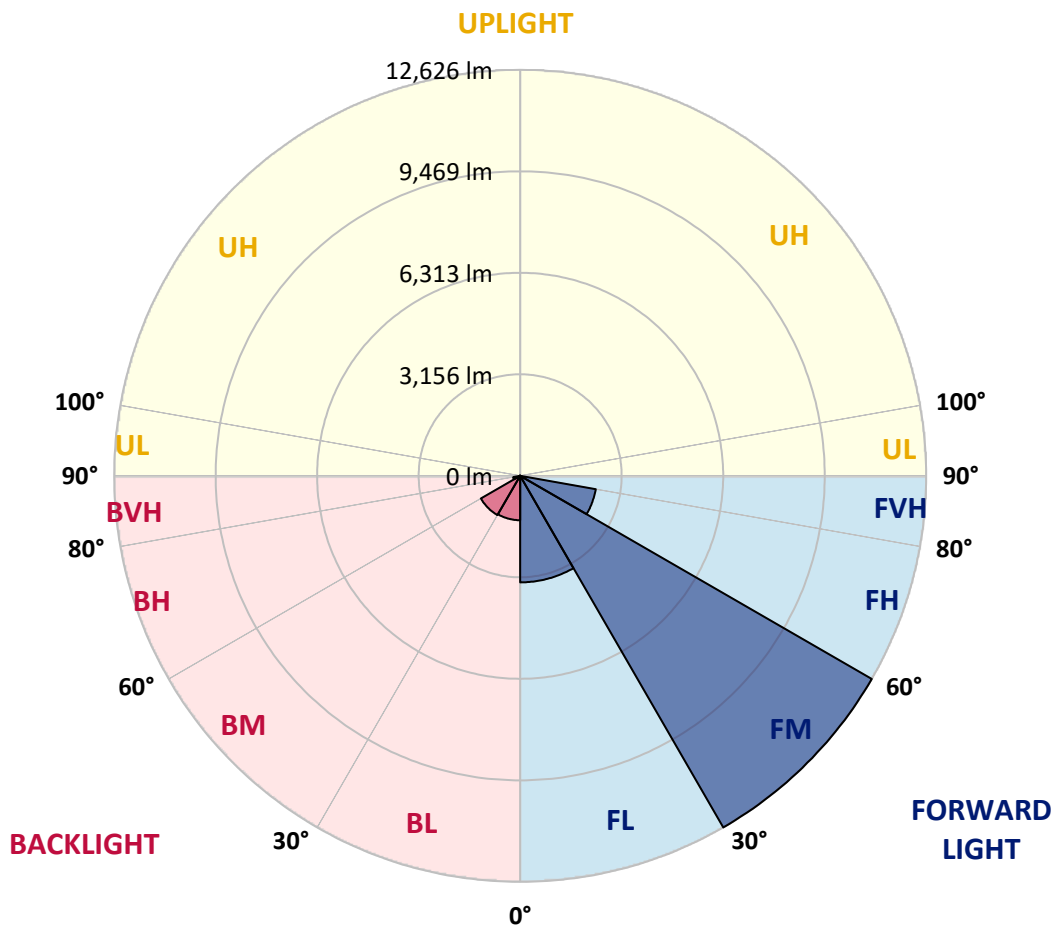
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3314.6	15.5			
FM	(30°-60°)	12626.0	59.1			
FH	(60°-80°)	2386.6	11.2			G2/5000
FVH	(80°-90°)	8.3	0.0			G0/10
BL	(0°-30°)	1380.1	6.5	B3/2500		
BM	(30°-60°)	1411.1	6.6	B2/2500		
BH	(60°-80°)	216.4	1.0	B1/500		G1/500
BVH	(80°-90°)	10.0	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9406.3	9406.3	9406.3	9406.3	9406.3	9406.3	9406.3	9406.3	9406.3	9406.3	9406.3
2.5°	9954.2	9851.0	9858.9	9823.2	9775.5	9811.3	9656.4	9692.2	9688.2	9477.8	9338.8
5°	9704.1	9815.3	9700.1	9795.4	9704.1	9803.3	9708.0	9636.6	9521.4	9366.6	9108.5
7.5°	9279.2	9172.0	9203.8	9322.9	9342.8	9565.1	9446.0	9537.3	9489.7	9183.9	8830.6
10°	8425.6	8401.7	8560.6	8719.4	8913.9	9152.2	9243.5	9191.9	9156.1	9041.0	8568.5
12.5°	7770.4	7837.9	7833.9	8096.0	8425.6	8560.6	8798.8	8790.8	8989.4	8775.0	8322.3
15°	7147.0	7182.8	7349.5	7512.3	7877.6	8262.8	8556.6	8596.3	8834.5	8683.6	8131.7
17.5°	6765.9	6714.2	6845.3	7039.8	7413.1	7917.3	8242.9	8338.2	8663.8	8632.0	7913.3
20°	6388.6	6388.6	6495.9	6726.1	7067.6	7635.4	8215.1	8187.3	8663.8	8572.5	7679.1
22.5°	6261.6	6325.1	6352.9	6527.6	6932.6	7421.0	8096.0	8147.6	8731.3	8544.7	7575.9
25°	6436.3	6352.9	6360.9	6499.8	6881.0	7317.8	8008.6	8123.8	8854.4	8683.6	7492.5
27.5°	6464.1	6547.5	6571.3	6666.6	6920.7	7349.5	8227.0	8461.3	9160.1	9009.2	7516.3
30°	6706.3	6789.7	6785.7	6948.5	7123.2	7607.6	8715.4	8763.1	9791.4	9418.2	7663.2
32.5°	7000.1	7087.5	7115.3	7305.9	7444.8	8080.1	9311.0	9434.1	10398.9	10061.4	8048.3
35°	7365.4	7333.6	7460.7	7651.3	7949.1	8771.0	10037.6	10244.1	11054.1	10895.2	8445.4
37.5°	7822.0	7782.3	7905.4	8215.1	8620.1	9588.9	10708.6	10843.6	11530.5	11669.5	9180.0
40°	8143.6	8159.5	8532.8	8949.7	9378.5	10367.2	11133.5	11264.5	11864.1	12392.2	9735.8
42.5°	8679.7	8778.9	9227.6	9735.8	10184.5	10950.8	11478.9	11606.0	12018.9	12971.9	10486.3
45°	9457.9	9414.2	9910.5	10478.3	10974.7	11558.3	11887.9	11844.2	12110.2	13547.6	10958.8
47.5°	10458.5	10466.4	10796.0	11280.4	11796.6	12086.4	12344.5	12189.7	12300.8	14155.1	11590.1
50°	11141.4	11201.0	11467.0	11963.3	12221.4	12666.1	12995.7	12900.4	12864.7	14520.4	11987.2
52.5°	11136.1	11494.8	11637.7	12257.2	12860.7	13563.5	13984.4	14186.9	13551.6	14643.5	12491.4
55°	9997.9	10156.7	10661.0	11510.7	13102.9	14984.9	15564.6	15568.6	14448.9	15191.4	12844.8
57.5°	7992.8	7671.1	7980.8	8882.2	11077.9	14925.4	16334.9	16148.3	14897.6	14869.8	12539.1
60°	5527.0	5447.6	5467.5	5824.8	7667.2	11872.0	14556.1	14798.3	13718.3	12888.5	9926.4
62.5°	4379.5	4312.0	4224.7	4185.0	4760.7	7397.2	10267.9	10609.4	9592.9	8358.1	5884.4
65°	3430.6	3390.9	3402.8	3561.6	3557.6	4196.9	5614.4	5475.4	4383.5	3240.0	1850.3
67.5°	2314.8	2374.4	2422.0	2902.5	3148.7	2922.3	2711.9	2632.5	1425.4	599.6	409.0
70°	1302.3	1310.3	1361.9	1814.6	2390.3	2267.2	1870.1	1870.1	710.7	218.4	234.3
72.5°	710.7	686.9	639.3	782.2	1064.1	1080.0	833.8	726.6	210.4	142.9	131.0
75°	345.4	341.5	293.8	242.2	230.3	190.6	146.9	135.0	95.3	91.3	79.4
77.5°	71.5	67.5	35.7	35.7	39.7	43.7	55.6	55.6	67.5	67.5	55.6
80°	0.0	0.0	4.0	15.9	27.8	39.7	47.6	47.6	55.6	55.6	43.7
82.5°	0.0	0.0	4.0	11.9	23.8	35.7	43.7	47.6	55.6	59.6	47.6
85°	0.0	0.0	0.0	7.9	19.9	27.8	23.8	23.8	19.9	15.9	7.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	9406.3	9406.3	9406.3	9406.3	9406.3	9406.3	9406.3	9406.3	9406.3	9406.3	9406.3
2.5°	9267.3	9259.4	9076.7	8973.5	8786.9	8624.1	8493.1	8397.8	8397.8	8338.2	8282.6
5°	9005.3	8937.8	8548.6	8298.5	7945.1	7683.1	7504.4	7365.4	7147.0	7206.6	6972.3
7.5°	8679.7	8508.9	7992.8	7611.6	7123.2	6750.0	6368.8	6031.3	5705.7	5558.8	5638.2
10°	8330.3	8032.5	7337.6	6734.1	6126.6	5443.7	4998.9	4459.0	4125.4	4105.6	4018.2
12.5°	7961.0	7623.5	6777.8	5943.9	5145.9	4324.0	3645.0	3140.7	2914.4	2664.3	2711.9
15°	7683.1	7182.8	6154.4	5149.8	4089.7	3259.8	2576.9	2187.8	1973.4	1913.8	1894.0
17.5°	7381.3	6845.3	5519.1	4304.1	3208.2	2346.6	1854.3	1667.6	1584.3	1584.3	1572.3
20°	7067.6	6464.1	4887.8	3517.9	2406.2	1751.0	1485.0	1425.4	1421.5	1417.5	1417.5
22.5°	6861.1	6027.3	4316.0	2795.3	1814.6	1401.6	1290.4	1266.6	1282.5	1330.1	1330.1
25°	6642.8	5606.4	3684.7	2156.0	1405.6	1203.1	1139.6	1155.4	1195.1	1238.8	1222.9
27.5°	6420.4	5332.5	3089.1	1691.5	1151.5	1052.2	1028.4	1064.1	1107.8	1147.5	1135.6
30°	6368.8	5038.7	2525.3	1282.5	988.7	917.2	933.1	964.8	1008.5	1024.4	1040.3
32.5°	6448.2	4808.4	2068.7	1052.2	861.6	841.8	841.8	857.6	885.4	921.2	909.3
35°	6674.5	4677.3	1635.9	913.2	790.1	770.3	766.3	782.2	798.1	810.0	798.1
37.5°	7020.0	4574.1	1338.1	810.0	742.5	710.7	702.8	698.8	714.7	718.7	726.6
40°	7460.7	4629.7	1135.6	746.5	694.9	659.1	635.3	635.3	635.3	647.2	651.2
42.5°	7937.2	4705.1	980.7	710.7	651.2	607.5	583.7	575.7	583.7	599.6	595.6
45°	8437.5	4852.0	881.5	655.1	611.5	555.9	524.1	516.2	536.0	567.8	563.8
47.5°	8906.0	5062.5	806.0	619.4	571.8	520.1	480.4	472.5	508.2	551.9	555.9
50°	9374.5	5427.8	778.2	591.6	544.0	484.4	448.7	440.7	480.4	536.0	547.9
52.5°	9914.5	5820.9	758.4	555.9	512.2	456.6	416.9	409.0	452.6	524.1	528.1
55°	10267.9	6154.4	742.5	492.4	452.6	412.9	381.2	377.2	424.9	488.4	504.3
57.5°	9855.0	5689.8	686.9	428.8	385.1	365.3	337.5	337.5	377.2	436.8	448.7
60°	7472.6	3744.2	488.4	345.4	325.6	313.7	301.8	301.8	333.5	377.2	381.2
62.5°	4375.6	2017.1	313.7	277.9	277.9	266.0	246.2	246.2	277.9	301.8	305.7
65°	1298.4	647.2	254.1	238.2	234.3	214.4	194.6	190.6	214.4	226.3	222.4
67.5°	373.2	297.8	210.4	198.5	194.6	162.8	150.9	146.9	150.9	142.9	139.0
70°	222.4	202.5	162.8	166.8	146.9	119.1	107.2	103.2	95.3	83.4	75.4
72.5°	123.1	123.1	119.1	127.1	103.2	79.4	67.5	55.6	43.7	35.7	31.8
75°	75.4	79.4	83.4	87.4	67.5	51.6	43.7	27.8	15.9	7.9	7.9
77.5°	51.6	55.6	59.6	63.5	55.6	47.6	35.7	19.9	4.0	0.0	0.0
80°	39.7	43.7	51.6	55.6	59.6	63.5	47.6	19.9	4.0	0.0	0.0
82.5°	43.7	47.6	59.6	55.6	55.6	55.6	43.7	19.9	4.0	0.0	0.0
85°	7.9	11.9	19.9	19.9	27.8	35.7	27.8	7.9	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)