

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: P952718

Luminaire Tested: **GALN-SB6C-727-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952718
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6C-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35665 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 300.9
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

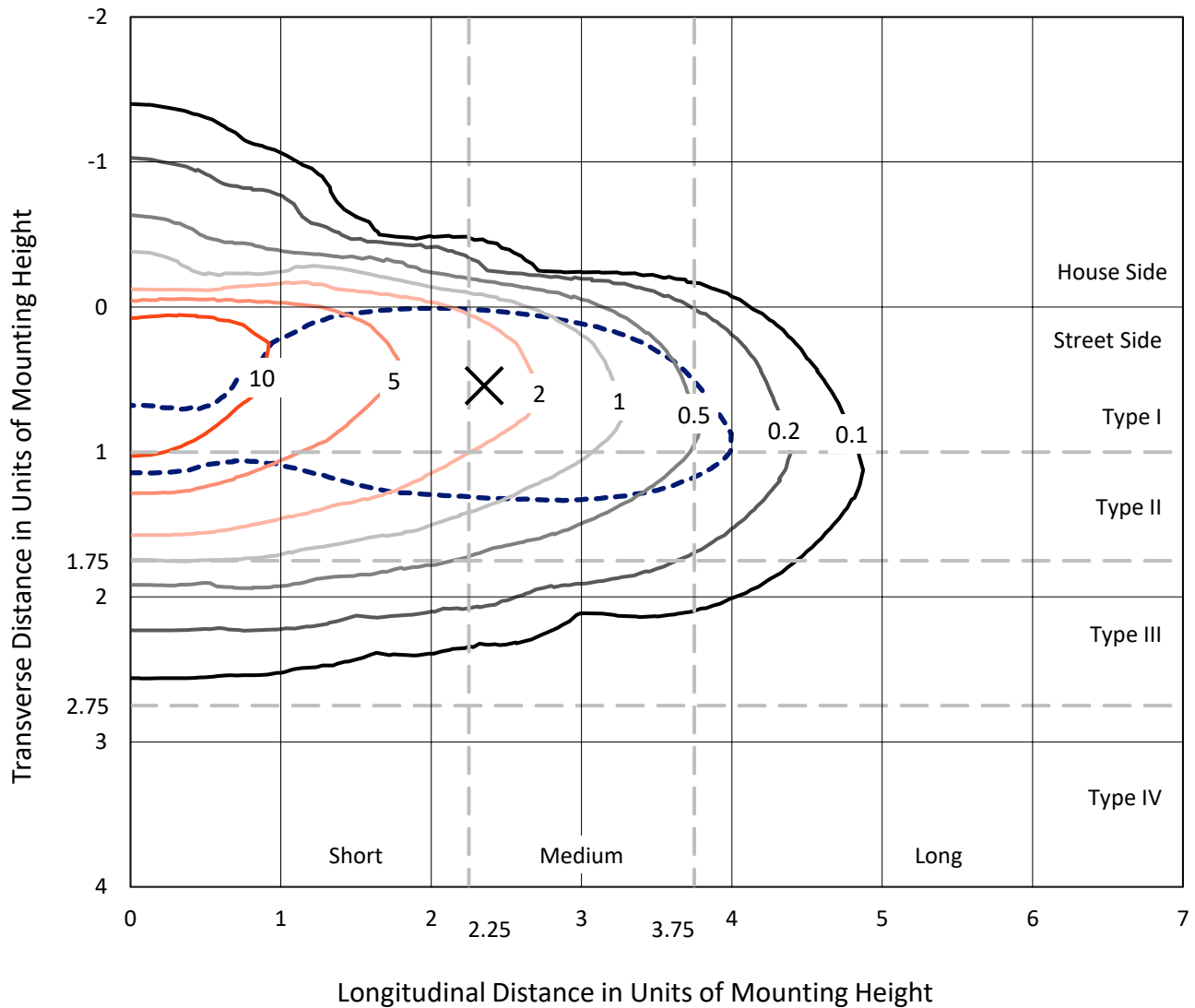


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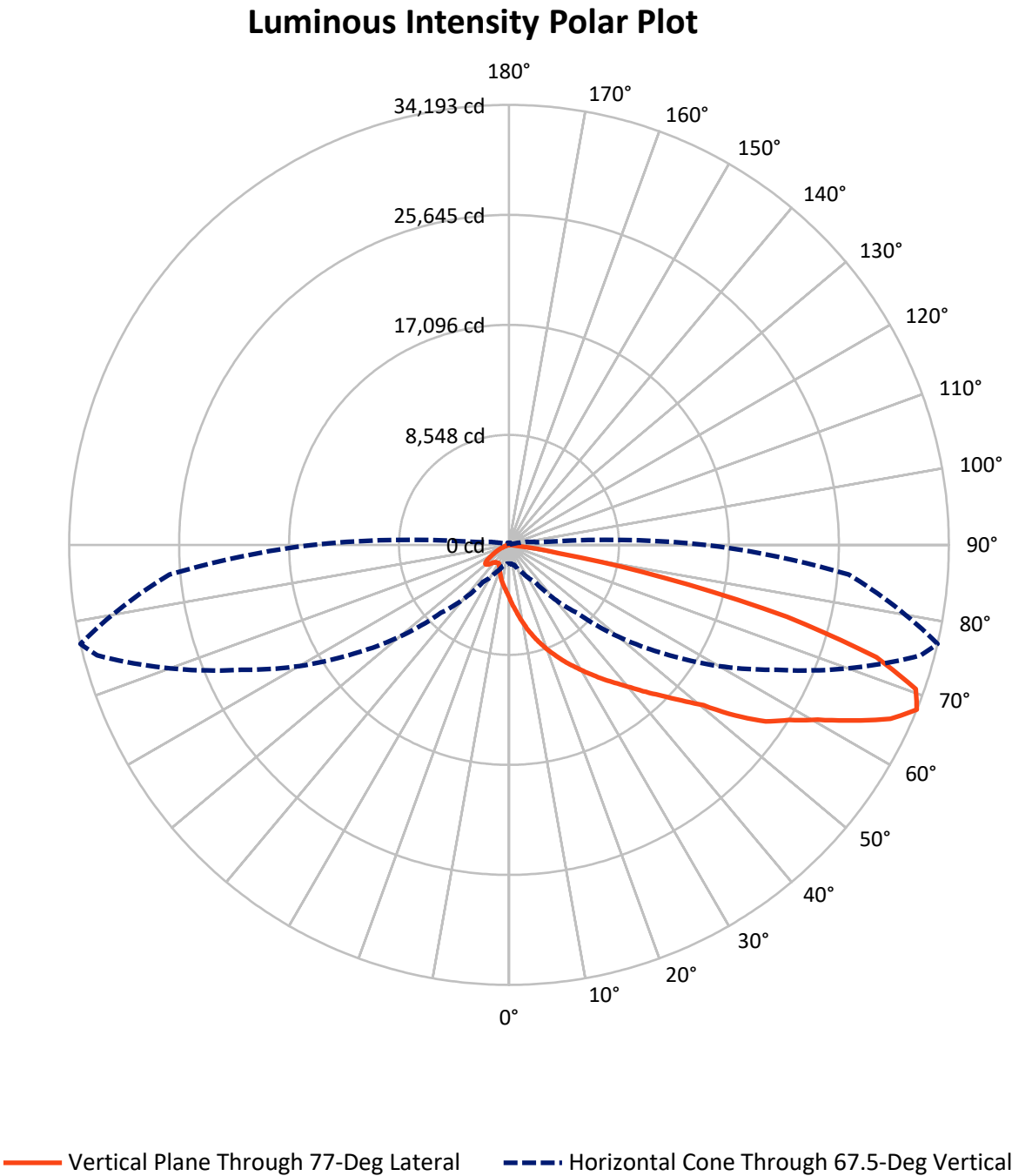
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
Type II - Medium - N/A

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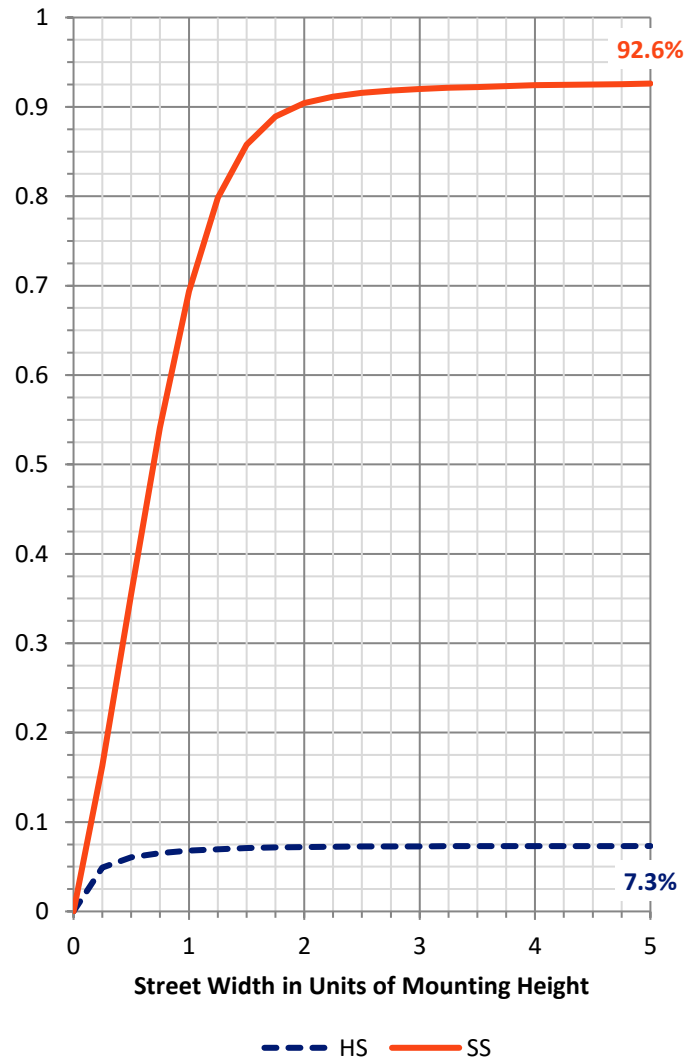
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2623.9	0.0	2623.9
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	33041.1	0.0	33041.1
	% Fixture	92.6	0.0	92.6
Total	Lumens	35665.0	0.0	35665.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.8	1.2
10°-20°	1470.0	4.1
20°-30°	2836.7	8.0
30°-40°	4924.6	13.8
40°-50°	7150.2	20.0
50°-60°	8211.2	23.0
60°-70°	7128.8	20.0
70°-80°	3357.7	9.4
80°-90°	166.1	0.5
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°	35665.0	100.0
0°-180°	35665.0	100.0

Coefficient of Utilization



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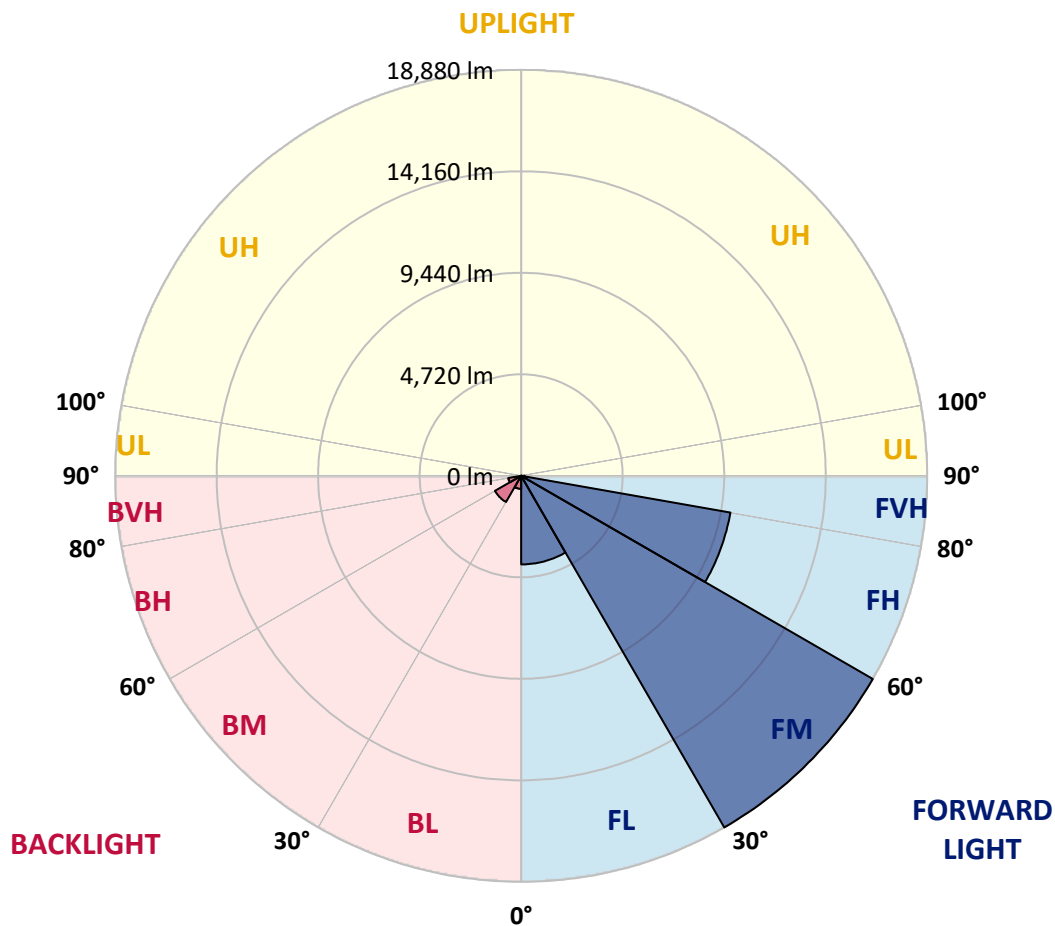
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4118.9	11.5			
FM	(30°-60°)	18880.1	52.9			
FH	(60°-80°)	9879.1	27.7			G4/12000
FVH	(80°-90°)	163.0	0.5			G2/225
BL	(0°-30°)	607.5	1.7	B2/1000		
BM	(30°-60°)	1405.9	3.9	B2/2500		
BH	(60°-80°)	607.5	1.7	B2/1000		G2/1000
BVH	(80°-90°)	3.1	0.0			G0/10
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	4112.7	4112.7	4112.7	4112.7	4112.7	4112.7	4112.7	4112.7	4112.7	4112.7	4112.7
2.5°	5694.0	5729.4	5678.5	5581.0	5434.9	5339.6	5107.1	4887.8	4644.2	4566.7	4323.1
5°	6940.9	6971.9	6914.3	6808.0	6613.1	6427.1	6121.4	5663.0	5186.8	5034.0	4602.1
7.5°	7864.4	7882.1	7860.0	7762.5	7576.5	7366.1	7025.0	6482.4	5775.9	5607.6	4945.4
10°	8528.8	8586.4	8579.7	8542.1	8418.1	8247.5	7884.3	7266.4	6435.9	6218.9	5333.0
12.5°	8969.5	9033.8	9071.4	9155.6	9148.9	9040.4	8721.5	8068.2	7093.7	6839.0	5769.3
15°	9098.0	9166.6	9310.6	9505.5	9678.2	9733.6	9509.9	8854.4	7817.9	7492.3	6216.7
17.5°	9024.9	9131.2	9304.0	9611.8	9990.5	10240.8	10216.4	9614.0	8475.7	8103.6	6655.2
20°	9186.6	9288.5	9423.6	9682.7	10123.4	10577.4	10759.0	10340.4	9129.0	8739.2	7115.8
22.5°	10081.3	10063.6	10076.9	10119.0	10382.5	10832.1	11206.4	11000.4	9775.7	9377.0	7603.1
25°	11498.7	11419.0	11283.9	11055.8	10989.3	11206.4	11596.2	11585.1	10457.8	10030.4	8101.4
27.5°	13124.3	13111.0	12794.3	12245.1	11935.0	11850.9	12036.9	12154.3	11133.3	10677.1	8601.9
30°	14681.2	14716.7	14289.2	13678.0	13108.8	12778.8	12610.5	12694.7	11819.9	11374.7	9117.9
32.5°	16036.6	16074.3	15609.2	14893.9	14189.6	13790.9	13436.6	13228.4	12568.4	12083.4	9684.9
35°	17181.6	17219.3	16685.6	15894.9	15144.1	14783.1	14382.3	13813.1	13321.4	12869.6	10316.1
37.5°	18204.8	18193.8	17478.4	16681.1	15943.6	15657.9	15447.5	14532.9	14096.6	13660.3	11015.9
40°	18809.5	18856.0	18244.7	17365.5	16650.1	16441.9	16428.6	15425.4	14991.3	14568.3	11782.2
42.5°	18986.6	19068.6	18625.6	17903.6	17254.7	17028.8	17376.5	16391.0	16032.2	15620.3	12648.2
45°	18667.7	18747.4	18545.9	18045.4	17666.7	17520.5	18191.5	17392.0	17144.0	16736.5	13624.8
47.5°	17737.5	17837.2	17885.9	17779.6	17775.2	17923.6	18922.4	18446.2	18464.0	18047.6	14756.5
50°	15937.0	16105.3	16552.7	16929.2	17511.6	18242.5	19633.3	19589.0	19952.2	19593.5	16231.5
52.5°	12663.7	12902.8	14444.3	15474.1	16783.0	18182.7	20415.1	21422.8	22563.4	22038.5	18311.1
55°	10176.5	10176.5	11430.1	13356.9	15361.2	17788.5	20756.2	22614.3	24341.8	24217.7	19775.1
57.5°	8296.3	8395.9	9195.4	10898.5	13303.7	16849.4	20966.6	23362.9	25774.7	25683.9	21205.8
60°	5120.4	5335.2	6845.6	8526.6	10962.8	15177.3	20833.7	24120.3	27513.2	27586.3	22928.8
62.5°	2883.5	2963.3	3636.5	6134.7	8524.4	12929.4	19817.1	24543.3	29736.8	30046.8	24705.0
65°	1991.0	2030.9	2290.0	3818.1	5908.8	10293.9	17830.6	24279.8	31964.8	32591.5	26211.0
67.5°	1446.2	1466.1	1627.8	2332.1	3505.9	7463.5	14716.7	22950.9	33145.2	34192.8	26498.9
70°	1111.8	1125.1	1242.4	1532.6	2070.7	4606.6	10688.1	20308.8	32290.3	33541.6	25023.9
72.5°	903.6	916.9	1007.7	1133.9	1373.1	2724.1	6478.0	16492.9	28516.5	29867.5	21303.2
75°	761.9	779.6	861.5	943.5	1076.3	1749.6	3038.6	11485.4	21444.9	22330.8	14814.1
77.5°	423.0	389.8	699.8	781.8	908.0	1107.4	1421.8	6759.3	12010.3	12256.2	6573.2
80°	263.5	272.4	555.9	629.0	697.6	558.1	651.1	2602.3	4163.6	3955.5	1273.5
82.5°	15.5	35.4	427.4	454.0	478.4	239.2	245.8	883.7	1003.3	921.3	225.9
85°	0.0	0.0	194.9	157.2	166.1	68.7	70.9	206.0	135.1	146.2	44.3
87.5°	0.0	0.0	0.0	4.4	0.0	6.6	13.3	17.7	6.6	8.9	15.5
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°	4112.7	4112.7	4112.7	4112.7	4112.7	4112.7	4112.7	4112.7	4112.7	4112.7	4112.7
2.5°	4168.1	4013.0	3698.5	3390.7	3140.4	2907.9	2741.8	2584.6	2504.8	2500.4	2496.0
5°	4294.3	3968.7	3339.8	2783.9	2336.5	1977.7	1745.2	1579.1	1494.9	1466.1	1461.7
7.5°	4471.5	3982.0	3025.3	2252.4	1725.3	1417.4	1284.5	1231.4	1213.7	1193.7	1189.3
10°	4695.2	4013.0	2744.0	1813.8	1359.8	1204.8	1151.6	1129.5	1116.2	1102.9	1098.5
12.5°	4945.4	4041.8	2465.0	1506.0	1195.9	1116.2	1078.6	1052.0	1034.3	1018.8	1014.3
15°	5189.0	4059.5	2174.8	1291.2	1111.8	1047.6	1007.7	978.9	954.5	936.8	934.6
17.5°	5430.4	4083.9	1902.4	1162.7	1043.1	978.9	939.0	903.6	883.7	863.7	861.5
20°	5698.4	4079.5	1645.5	1071.9	974.5	910.2	868.2	834.9	815.0	792.9	790.6
22.5°	5946.5	4057.3	1419.6	994.4	903.6	841.6	795.1	761.9	741.9	724.2	722.0
25°	6232.2	4039.6	1231.4	923.5	837.2	775.1	724.2	693.2	671.1	655.6	653.3
27.5°	6506.8	4013.0	1094.1	859.3	772.9	713.1	664.4	629.0	609.0	598.0	598.0
30°	6777.0	4006.4	1043.1	797.3	715.3	655.6	606.8	573.6	558.1	553.7	551.5
32.5°	7102.5	4024.1	1065.3	775.1	662.2	602.4	555.9	531.5	516.0	516.0	516.0
35°	7450.3	4019.7	1098.5	795.1	626.8	549.2	513.8	498.3	482.8	482.8	482.8
37.5°	7886.5	4026.3	1125.1	828.3	613.5	505.0	485.0	465.1	456.2	456.2	456.2
40°	8537.7	4245.6	1111.8	857.1	609.0	473.9	434.1	427.4	420.8	420.8	420.8
42.5°	9335.0	4721.7	1129.5	859.3	606.8	451.8	398.6	411.9	396.4	394.2	392.0
45°	10207.6	5242.2	1242.4	812.8	604.6	440.7	380.9	396.4	372.1	372.1	372.1
47.5°	11073.5	5758.2	1357.6	746.4	598.0	438.5	365.4	356.6	349.9	352.1	352.1
50°	12267.2	6179.0	1401.9	655.6	582.5	434.1	336.6	338.8	334.4	338.8	338.8
52.5°	13567.3	6267.6	1348.8	553.7	538.2	420.8	316.7	325.6	323.3	327.8	327.8
55°	14377.8	6172.4	1114.0	460.7	469.5	367.6	296.8	314.5	314.5	314.5	314.5
57.5°	15215.0	5767.1	790.6	374.3	389.8	301.2	279.1	303.4	301.2	299.0	299.0
60°	15817.4	5111.5	520.5	307.8	310.1	248.0	259.1	285.7	283.5	272.4	272.4
62.5°	16267.0	4387.3	334.4	261.3	237.0	223.7	237.0	259.1	250.3	225.9	221.5
65°	16216.0	3384.1	256.9	223.7	194.9	194.9	206.0	225.9	199.3	159.5	155.0
67.5°	15270.4	2290.0	212.6	188.2	163.9	161.7	170.5	188.2	170.5	135.1	130.7
70°	13580.5	1497.1	170.5	146.2	130.7	119.6	137.3	161.7	144.0	108.5	104.1
72.5°	11022.6	912.5	128.5	106.3	95.2	77.5	108.5	132.9	115.2	79.7	75.3
75°	7131.3	465.1	88.6	68.7	50.9	46.5	79.7	99.7	79.7	48.7	42.1
77.5°	2728.5	194.9	48.7	31.0	26.6	22.1	44.3	59.8	33.2	11.1	8.9
80°	524.9	81.9	24.4	15.5	13.3	8.9	6.6	4.4	0.0	0.0	0.0
82.5°	90.8	26.6	8.9	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.0	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.1	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)