

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: P950933

Luminaire Tested: **GALN-SB5B-727-U-T2R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950933  
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-SB5B-727-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

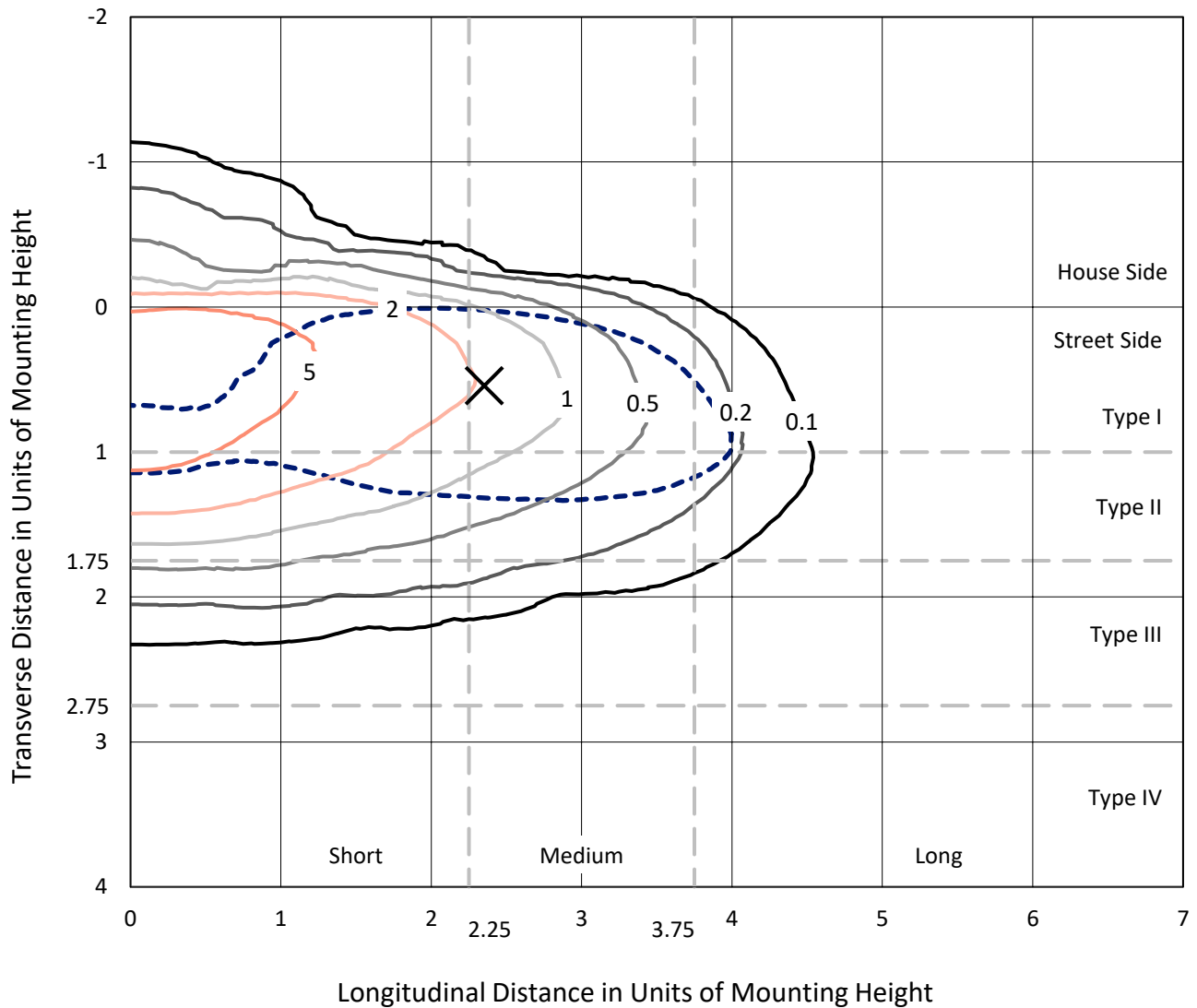
Lumens per Lamp: N/A  
Luminaire Lumens: 22339 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 182.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

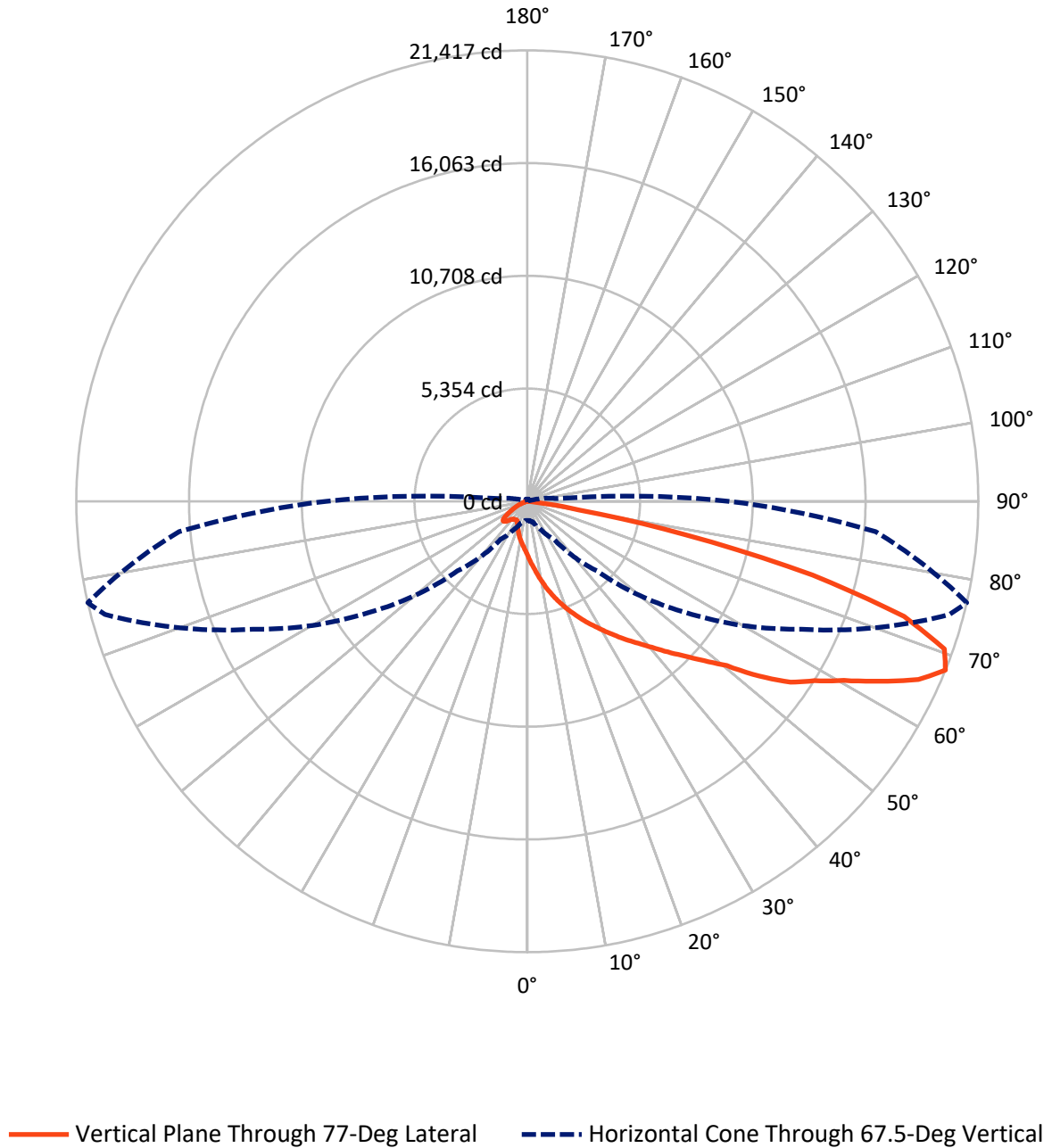
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



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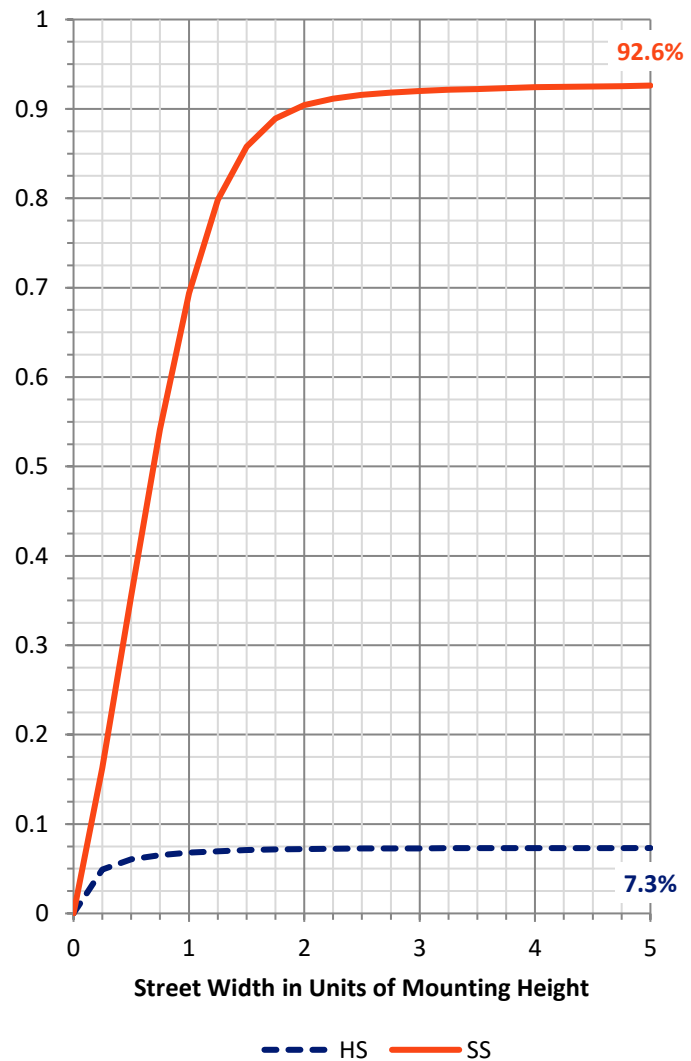
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1643.5	0.0	1643.5
	% Fixture	7.4	0.0	7.4
<b>Street Side</b>	Lumens	20695.5	0.0	20695.5
	% Fixture	92.6	0.0	92.6
<b>Total</b>	Lumens	22339.0	0.0	22339.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.9	1.2
10°-20°	920.7	4.1
20°-30°	1776.8	8.0
30°-40°	3084.6	13.8
40°-50°	4478.6	20.0
50°-60°	5143.1	23.0
60°-70°	4465.2	20.0
70°-80°	2103.1	9.4
80°-90°	104.0	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°	22339.0	100.0
0°-180°	22339.0	100.0

**Coefficient of Utilization**



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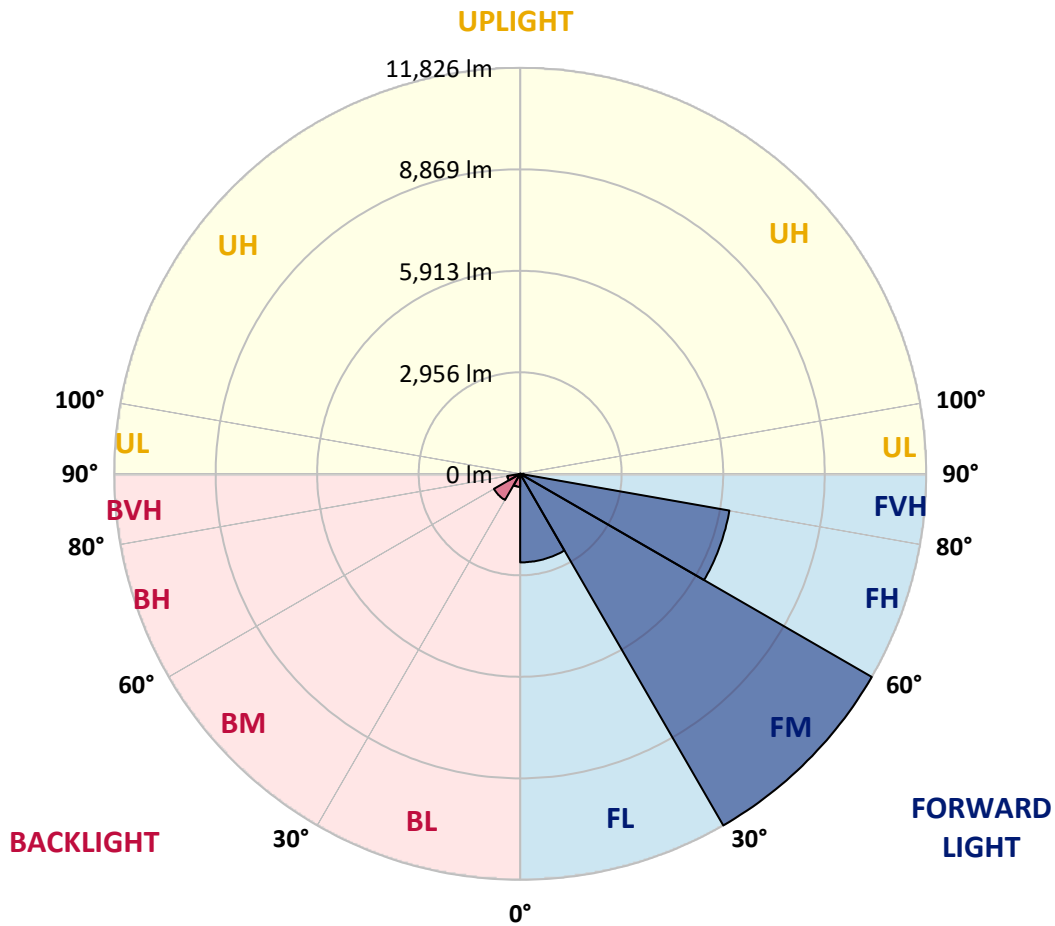
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2579.9	11.5			
FM (30°-60°)	11825.7	52.9			
FH (60°-80°)	6187.8	27.7			G3/7500
FVH (80°-90°)	102.1	0.5			G2/225
BL (0°-30°)	380.5	1.7	B1/500		
BM (30°-60°)	880.6	3.9	B1/1000		
BH (60°-80°)	380.5	1.7	B1/500		G1/500
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2576.0	2576.0	2576.0	2576.0	2576.0	2576.0	2576.0	2576.0	2576.0	2576.0	2576.0
2.5°	3566.5	3588.7	3556.8	3495.7	3404.2	3344.5	3198.9	3061.5	2908.9	2860.4	2707.8
5°	4347.5	4366.9	4330.8	4264.2	4142.2	4025.6	3834.2	3547.0	3248.8	3153.1	2882.6
7.5°	4925.9	4937.0	4923.1	4862.1	4745.6	4613.8	4400.2	4060.3	3617.8	3512.4	3097.6
10°	5342.1	5378.1	5374.0	5350.4	5272.7	5165.9	4938.4	4551.4	4031.2	3895.2	3340.4
12.5°	5618.1	5658.4	5681.9	5734.7	5730.5	5662.5	5462.8	5053.5	4443.2	4283.6	3613.6
15°	5698.6	5741.6	5831.8	5953.8	6062.0	6096.7	5956.6	5546.0	4896.8	4692.9	3893.8
17.5°	5652.8	5719.4	5827.6	6020.4	6257.6	6414.4	6399.1	6021.8	5308.8	5075.7	4168.5
20°	5754.1	5817.9	5902.5	6064.8	6340.9	6625.2	6739.0	6476.8	5718.0	5473.9	4457.0
22.5°	6314.5	6303.4	6311.7	6338.1	6503.2	6784.8	7019.2	6890.2	6123.1	5873.4	4762.2
25°	7202.3	7152.4	7067.7	6924.9	6883.2	7019.2	7263.3	7256.4	6550.3	6282.6	5074.3
27.5°	8220.5	8212.2	8013.8	7669.8	7475.6	7422.9	7539.4	7612.9	6973.4	6687.7	5387.9
30°	9195.7	9217.9	8950.2	8567.3	8210.8	8004.1	7898.7	7951.4	7403.4	7124.6	5711.1
32.5°	10044.7	10068.2	9776.9	9328.9	8887.7	8638.0	8416.1	8285.7	7872.3	7568.5	6066.2
35°	10761.8	10785.4	10451.1	9955.9	9485.6	9259.5	9008.4	8651.9	8344.0	8061.0	6461.5
37.5°	11402.7	11395.8	10947.7	10448.3	9986.4	9807.4	9675.7	9102.8	8829.5	8556.2	6899.9
40°	11781.4	11810.6	11427.7	10877.0	10428.9	10298.5	10290.2	9661.8	9389.9	9124.9	7379.9
42.5°	11892.4	11943.7	11666.3	11214.1	10807.6	10666.1	10883.9	10266.6	10041.9	9783.9	7922.3
45°	11692.6	11742.6	11616.3	11302.8	11065.6	10974.1	11394.4	10893.6	10738.3	10483.0	8534.0
47.5°	11110.0	11172.4	11203.0	11136.4	11133.6	11226.5	11852.2	11553.9	11565.0	11304.2	9242.9
50°	9982.2	10087.7	10367.9	10603.7	10968.5	11426.3	12297.5	12269.7	12497.2	12272.5	10166.7
52.5°	7932.0	8081.8	9047.3	9692.3	10512.1	11388.8	12787.1	13418.3	14132.7	13803.9	11469.3
55°	6374.1	6374.1	7159.3	8366.2	9621.6	11141.9	13000.8	14164.6	15246.6	15168.9	12386.2
57.5°	5196.4	5258.8	5759.6	6826.4	8332.9	10553.8	13132.5	14633.5	16144.1	16087.3	13282.4
60°	3207.2	3341.7	4287.8	5340.7	6866.6	9506.4	13049.3	15107.9	17233.1	17278.9	14361.6
62.5°	1806.1	1856.1	2277.8	3842.5	5339.3	8098.4	12412.6	15372.9	18625.8	18820.0	15474.1
65°	1247.1	1272.1	1434.4	2391.5	3701.0	6447.7	11168.3	15207.8	20021.3	20413.9	16417.4
67.5°	905.8	918.3	1019.6	1460.7	2195.9	4674.8	9217.9	14375.5	20760.7	21416.9	16597.7
70°	696.4	704.7	778.2	959.9	1297.0	2885.4	6694.6	12720.5	20225.3	21009.0	15673.9
72.5°	566.0	574.3	631.2	710.2	860.1	1706.2	4057.5	10330.4	17861.5	18707.7	13343.4
75°	477.2	488.3	539.6	590.9	674.2	1095.9	1903.2	7194.0	13432.2	13987.1	9278.9
77.5°	265.0	244.1	438.4	489.7	568.7	693.6	890.6	4233.7	7522.7	7676.7	4117.2
80°	165.1	170.6	348.2	394.0	437.0	349.6	407.8	1630.0	2607.9	2477.5	797.6
82.5°	9.7	22.2	267.7	284.4	299.6	149.8	154.0	553.5	628.4	577.1	141.5
85°	0.0	0.0	122.1	98.5	104.0	43.0	44.4	129.0	84.6	91.6	27.7
87.5°	0.0	0.0	0.0	2.8	0.0	4.2	8.3	11.1	4.2	5.5	9.7
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°	2576.0	2576.0	2576.0	2576.0	2576.0	2576.0	2576.0	2576.0	2576.0	2576.0	2576.0
2.5°	2610.7	2513.6	2316.6	2123.8	1967.0	1821.4	1717.3	1618.9	1568.9	1566.1	1563.4
5°	2689.8	2485.8	2091.9	1743.7	1463.5	1238.8	1093.1	989.1	936.4	918.3	915.5
7.5°	2800.7	2494.2	1894.9	1410.8	1080.6	887.8	804.6	771.3	760.2	747.7	744.9
10°	2940.8	2513.6	1718.7	1136.1	851.7	754.6	721.3	707.5	699.1	690.8	688.0
12.5°	3097.6	2531.6	1543.9	943.3	749.1	699.1	675.6	658.9	647.8	638.1	635.3
15°	3250.2	2542.7	1362.2	808.7	696.4	656.1	631.2	613.1	597.9	586.8	585.4
17.5°	3401.4	2558.0	1191.6	728.3	653.4	613.1	588.2	566.0	553.5	541.0	539.6
20°	3569.2	2555.2	1030.7	671.4	610.4	570.1	543.8	523.0	510.5	496.6	495.2
22.5°	3724.6	2541.3	889.2	622.8	566.0	527.1	498.0	477.2	464.7	453.6	452.2
25°	3903.6	2530.2	771.3	578.5	524.4	485.5	453.6	434.2	420.3	410.6	409.2
27.5°	4075.6	2513.6	685.3	538.2	484.1	446.7	416.2	394.0	381.5	374.5	374.5
30°	4244.8	2509.4	653.4	499.4	448.1	410.6	380.1	359.3	349.6	346.8	345.4
32.5°	4448.7	2520.5	667.2	485.5	414.8	377.3	348.2	332.9	323.2	323.2	323.2
35°	4666.5	2517.8	688.0	498.0	392.6	344.0	321.8	312.1	302.4	302.4	302.4
37.5°	4939.8	2521.9	704.7	518.8	384.3	316.3	303.8	291.3	285.8	285.8	285.8
40°	5347.6	2659.2	696.4	536.8	381.5	296.9	271.9	267.7	263.6	263.6	263.6
42.5°	5847.0	2957.5	707.5	538.2	380.1	283.0	249.7	258.0	248.3	246.9	245.5
45°	6393.6	3283.5	778.2	509.1	378.7	276.1	238.6	248.3	233.0	233.0	233.0
47.5°	6936.0	3606.7	850.3	467.5	374.5	274.7	228.9	223.3	219.2	220.6	220.6
50°	7683.7	3870.3	878.1	410.6	364.8	271.9	210.9	212.2	209.5	212.2	212.2
52.5°	8497.9	3925.8	844.8	346.8	337.1	263.6	198.4	203.9	202.5	205.3	205.3
55°	9005.6	3866.1	697.8	288.5	294.1	230.3	185.9	197.0	197.0	197.0	197.0
57.5°	9530.0	3612.2	495.2	234.4	244.1	188.7	174.8	190.0	188.7	187.3	187.3
60°	9907.3	3201.6	326.0	192.8	194.2	155.4	162.3	178.9	177.6	170.6	170.6
62.5°	10188.9	2748.0	209.5	163.7	148.4	140.1	148.4	162.3	156.8	141.5	138.7
65°	10157.0	2119.6	160.9	140.1	122.1	122.1	129.0	141.5	124.8	99.9	97.1
67.5°	9564.7	1434.4	133.2	117.9	102.7	101.3	106.8	117.9	106.8	84.6	81.8
70°	8506.3	937.7	106.8	91.6	81.8	74.9	86.0	101.3	90.2	68.0	65.2
72.5°	6904.1	571.5	80.5	66.6	59.6	48.6	68.0	83.2	72.1	49.9	47.2
75°	4466.8	291.3	55.5	43.0	31.9	29.1	49.9	62.4	49.9	30.5	26.4
77.5°	1709.0	122.1	30.5	19.4	16.6	13.9	27.7	37.5	20.8	6.9	5.5
80°	328.8	51.3	15.3	9.7	8.3	5.5	4.2	2.8	0.0	0.0	0.0
82.5°	56.9	16.6	5.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.4	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.9	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)