

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: P948440

Luminaire Tested: **GALN-SB3C-727-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948440
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3C-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16054 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

Input Watts (W): 149.1
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



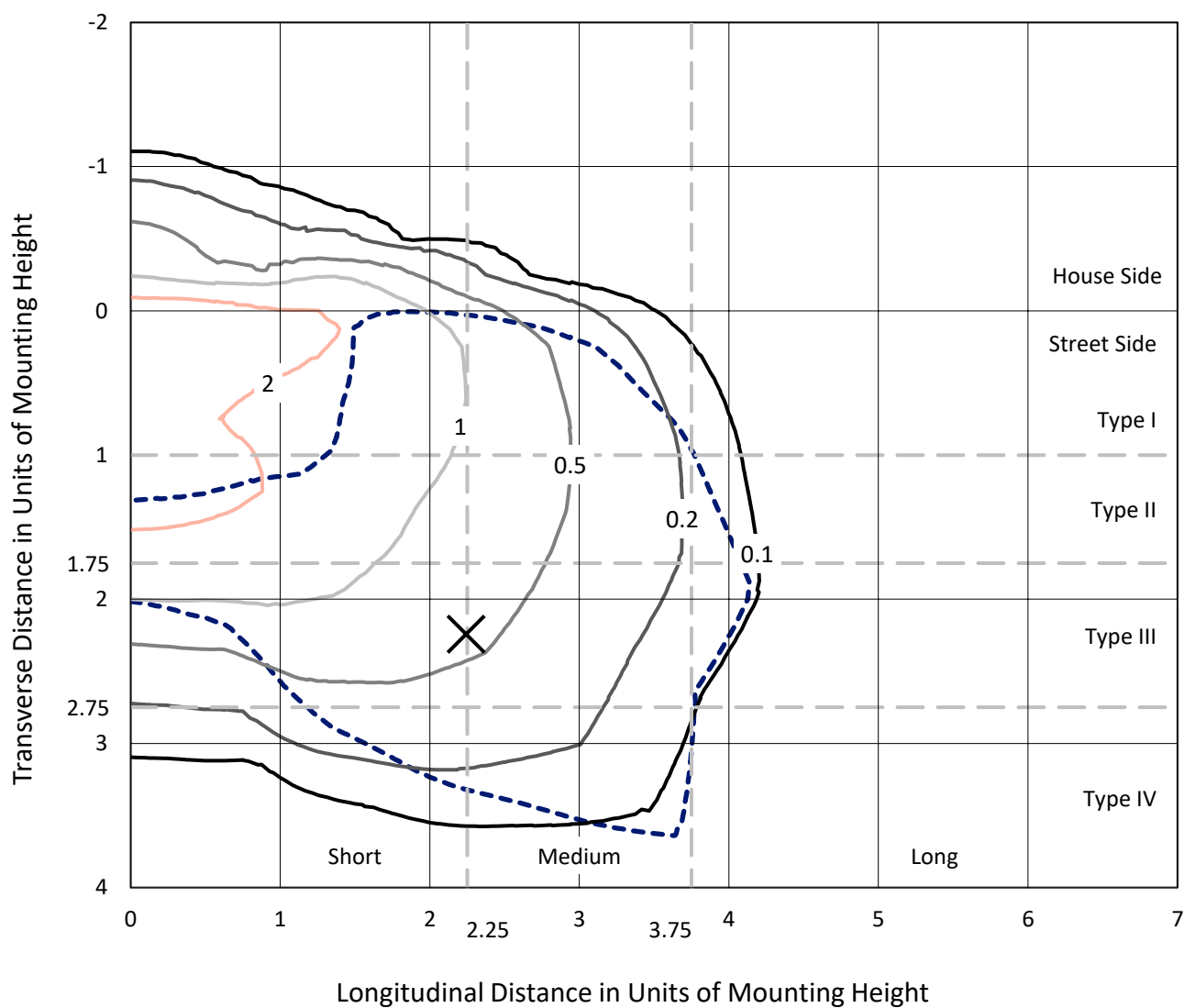
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Iso-Footcandle Lines of Horizontal Illumination

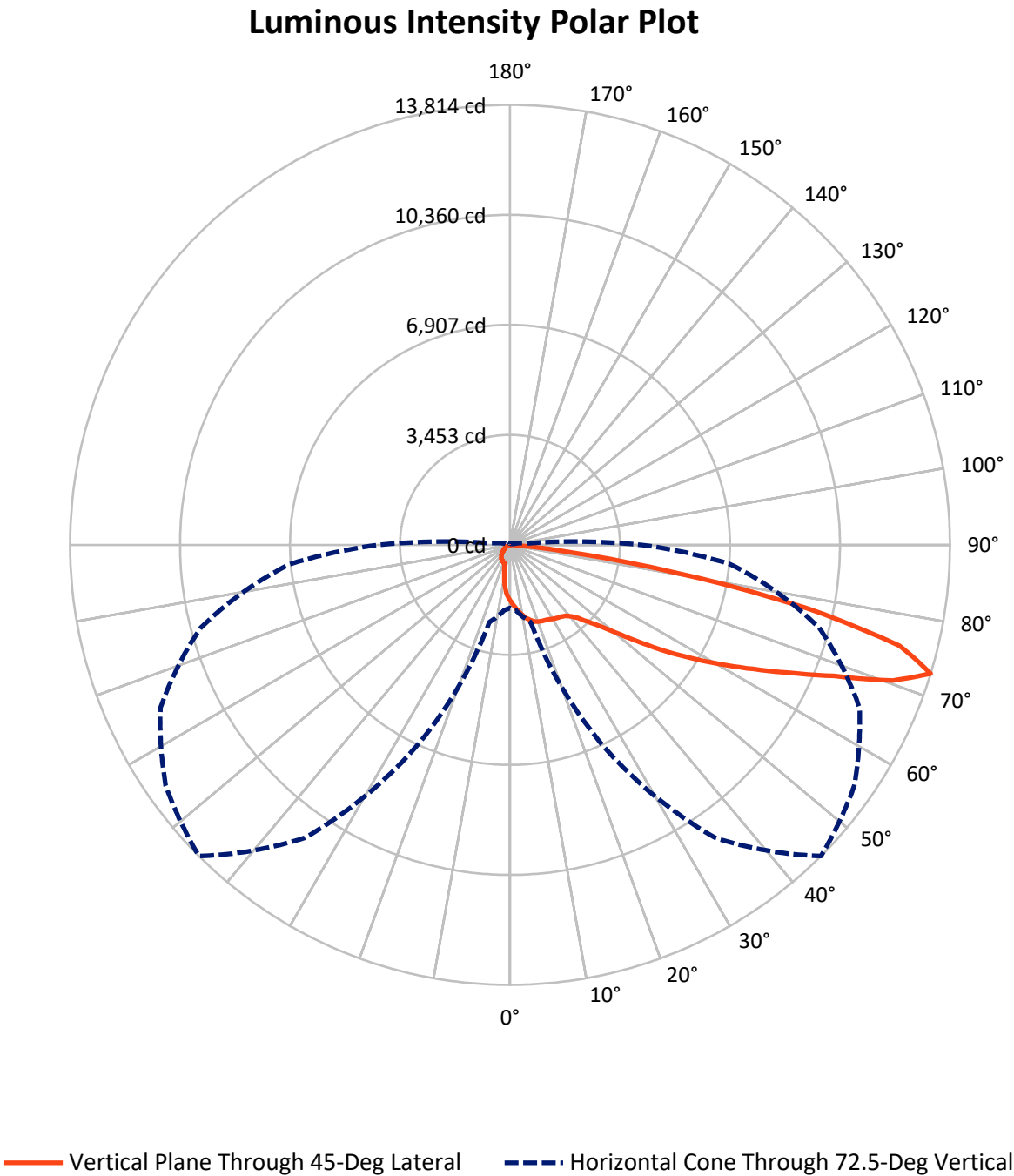
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

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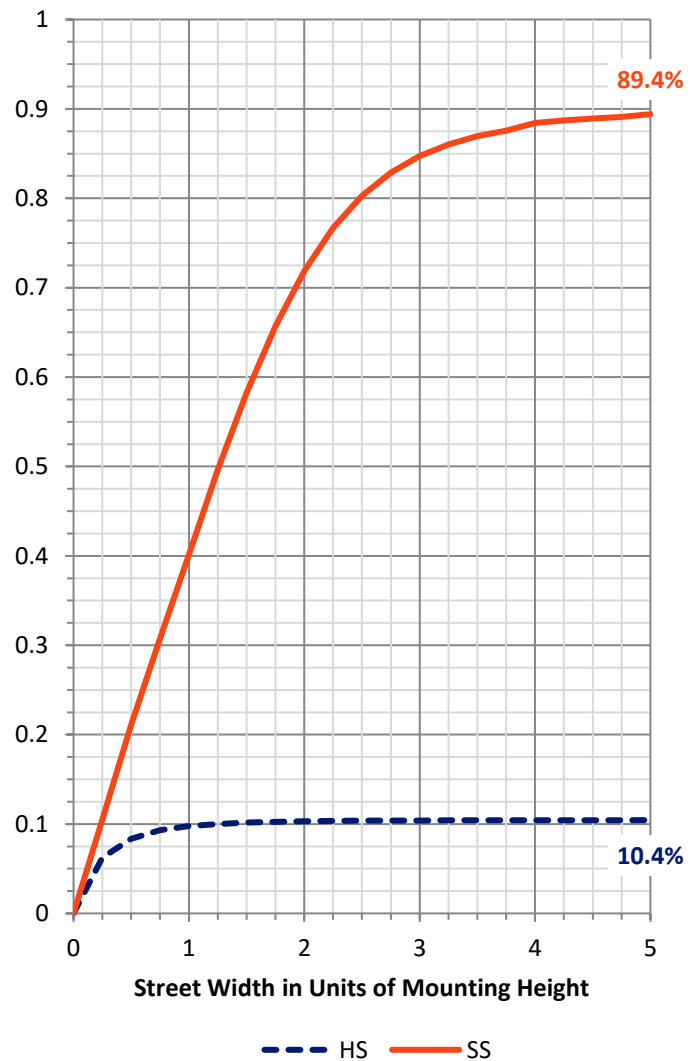
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1686.8	0.0	1686.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	14367.2	0.0	14367.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	16054.0	0.0	16054.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.7	1.0
10°-20°	484.3	3.0
20°-30°	795.3	5.0
30°-40°	1127.9	7.0
40°-50°	1864.3	11.6
50°-60°	3349.0	20.9
60°-70°	4650.3	29.0
70°-80°	3373.2	21.0
80°-90°	243.9	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°	16054.0	100.0
0°-180°	16054.0	100.0

Coefficient of Utilization



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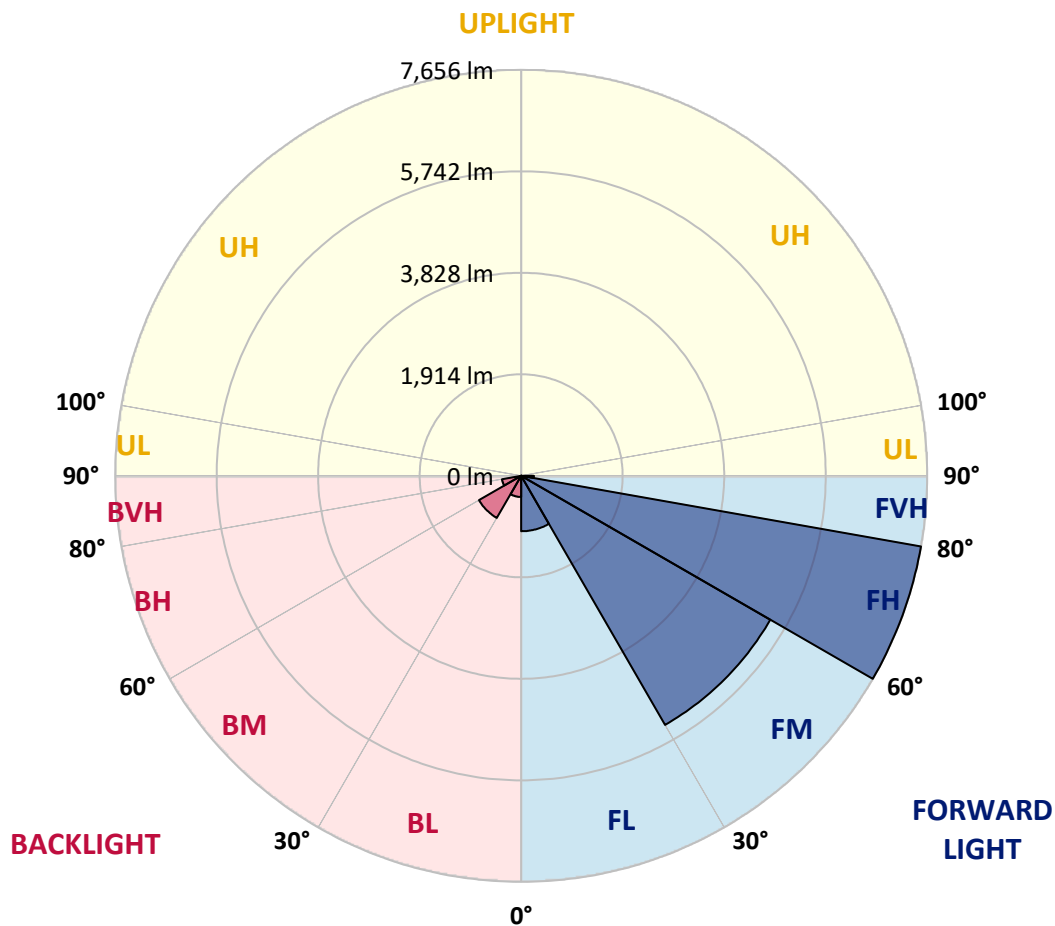
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1045.8	6.5			
FM	(30°-60°)	5423.9	33.8			
FH	(60°-80°)	7655.7	47.7			G4/12000
FVH	(80°-90°)	241.8	1.5			G3/500
BL	(0°-30°)	399.5	2.5	B1/500		
BM	(30°-60°)	917.4	5.7	B1/1000		
BH	(60°-80°)	367.8	2.3	B1/500		G1/500
BVH	(80°-90°)	2.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7
2.5°	1920.9	1924.2	1922.0	1908.9	1887.0	1874.9	1868.3	1846.4	1832.2	1807.0	1780.7
5°	2097.4	2110.5	2102.8	2076.5	2034.9	2005.3	1996.5	1951.6	1911.1	1863.9	1809.2
7.5°	2284.7	2291.3	2277.1	2243.1	2187.2	2136.8	2129.1	2066.7	2002.0	1929.7	1855.2
10°	2446.9	2454.6	2432.7	2383.4	2319.8	2257.3	2246.4	2177.3	2100.6	2011.9	1916.5
12.5°	2582.8	2590.5	2562.0	2502.8	2432.7	2368.0	2357.1	2284.7	2200.4	2101.7	1983.4
15°	2685.8	2700.0	2661.7	2598.1	2522.5	2457.9	2452.4	2381.2	2299.0	2189.4	2063.4
17.5°	2746.1	2760.3	2724.1	2647.4	2582.8	2528.0	2521.4	2462.2	2385.5	2280.3	2141.2
20°	2755.9	2769.1	2730.7	2663.9	2610.2	2566.4	2563.1	2520.3	2464.4	2363.6	2225.6
22.5°	2726.3	2742.8	2707.7	2654.0	2616.8	2593.7	2589.4	2565.3	2533.5	2448.0	2304.5
25°	2695.7	2708.8	2682.5	2635.4	2615.7	2613.5	2616.8	2612.4	2605.8	2533.5	2396.5
27.5°	2693.5	2707.7	2678.1	2633.2	2622.2	2645.2	2648.5	2669.4	2674.8	2611.3	2485.3
30°	2712.1	2722.0	2693.5	2646.3	2640.9	2693.5	2694.6	2731.8	2740.6	2677.0	2572.9
32.5°	2752.6	2763.6	2735.1	2666.1	2658.4	2731.8	2735.1	2784.4	2798.7	2747.2	2665.0
35°	2848.0	2861.1	2828.2	2720.9	2693.5	2768.0	2777.8	2835.9	2864.4	2821.7	2760.3
37.5°	3085.8	3047.4	3002.5	2831.5	2773.5	2825.0	2841.4	2909.3	2959.7	2910.4	2874.3
40°	3676.4	3555.9	3415.6	3020.0	2913.7	2946.6	2959.7	3027.7	3096.7	3048.5	3031.0
42.5°	4562.9	4420.4	4194.7	3453.9	3125.2	3141.6	3151.5	3210.7	3308.2	3269.9	3274.2
45°	5353.0	5301.5	5071.3	4194.7	3520.8	3439.7	3451.8	3482.4	3626.0	3611.7	3640.2
47.5°	5960.0	5930.4	5752.9	5045.0	4189.2	3804.6	3838.6	3852.8	4059.9	4110.3	4187.0
50°	6426.8	6415.9	6257.0	5801.1	5062.6	4342.6	4354.7	4324.0	4634.1	4759.0	4904.8
52.5°	6867.3	6904.6	6787.3	6503.5	5995.1	5047.2	5045.0	4900.4	5319.0	5507.5	5756.2
55°	7265.1	7278.3	7290.3	7220.2	6933.1	5849.3	5828.5	5591.8	6113.4	6308.5	6578.1
57.5°	7638.8	7644.3	7751.6	7895.2	7909.4	6710.6	6672.3	6388.5	6981.3	7120.5	7285.9
60°	7889.7	7914.9	8141.8	8540.6	8714.9	7599.3	7578.5	7289.2	7864.5	7929.2	7898.5
62.5°	7528.1	7681.5	8253.5	9044.7	9475.3	8584.5	8574.6	8302.8	8793.7	8741.2	8478.2
65°	6093.7	6353.4	7359.4	9385.5	10221.6	9684.6	9698.9	9409.6	9748.2	9577.2	8949.4
67.5°	4262.6	4536.6	5726.6	9412.9	11055.5	10976.6	11058.8	10605.1	10761.8	10378.3	9061.1
70°	2947.7	3089.0	3863.8	8823.3	11705.3	12756.1	12753.9	12073.5	11769.9	10743.2	8491.3
72.5°	1982.3	2055.7	2509.4	6999.9	11227.5	13813.6	13750.0	13195.6	12109.6	10047.3	6937.5
75°	836.1	889.8	1161.5	3933.9	8882.5	12637.8	12465.8	11661.4	10759.6	7911.6	4328.4
77.5°	265.2	288.2	458.0	1408.1	4892.7	9499.4	9317.5	7282.6	7211.4	3969.0	1582.3
80°	126.0	146.8	257.5	565.4	1925.3	5166.7	5141.5	3303.8	3102.2	1071.7	317.8
82.5°	54.8	64.7	142.5	302.4	861.3	1843.1	1880.4	1124.3	930.3	406.5	97.5
85°	17.5	23.0	65.7	139.2	363.8	458.0	452.6	267.4	374.8	221.4	34.0
87.5°	0.0	0.0	21.9	31.8	37.3	26.3	29.6	23.0	104.1	61.4	12.1
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°	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7	1758.7
2.5°	1767.5	1750.0	1719.3	1690.8	1665.6	1640.4	1625.1	1603.1	1601.0	1601.0	1606.4
5°	1779.6	1751.1	1696.3	1638.2	1571.4	1507.8	1444.3	1382.9	1363.2	1348.9	1355.5
7.5°	1814.6	1769.7	1683.1	1572.5	1445.4	1306.2	1208.7	1103.5	1062.9	1041.0	1044.3
10°	1865.0	1803.7	1672.2	1478.2	1272.2	1082.6	943.5	829.5	785.7	767.1	767.1
12.5°	1920.9	1845.3	1652.5	1361.0	1082.6	855.8	719.9	667.3	660.8	660.8	660.8
15°	1987.8	1895.7	1618.5	1222.9	884.3	677.2	629.0	631.2	637.8	642.1	642.1
17.5°	2056.8	1949.4	1564.8	1068.4	709.0	609.3	610.4	613.6	619.1	623.5	623.5
20°	2131.3	2003.1	1493.6	904.0	608.2	589.5	592.8	596.1	600.5	602.7	603.8
22.5°	2211.3	2053.5	1409.2	742.9	574.2	573.1	574.2	577.5	583.0	583.0	585.2
25°	2296.8	2109.4	1312.8	625.7	556.7	556.7	558.9	561.0	565.4	565.4	566.5
27.5°	2384.4	2160.9	1210.9	564.3	541.3	540.2	540.2	543.5	545.7	546.8	547.9
30°	2480.9	2221.2	1108.9	551.2	529.3	523.8	520.5	522.7	524.9	526.0	528.2
32.5°	2579.5	2279.3	1018.0	556.7	517.2	507.4	496.4	494.2	494.2	498.6	501.9
35°	2689.1	2342.8	947.9	575.3	510.6	483.2	465.7	455.9	456.9	463.5	466.8
37.5°	2820.6	2419.5	896.4	591.7	506.3	455.9	427.4	415.3	407.6	415.3	413.1
40°	2992.6	2532.4	859.1	604.9	500.8	424.1	385.7	366.0	351.7	356.1	353.9
42.5°	3245.7	2709.9	844.9	606.0	488.7	386.8	343.0	316.7	295.9	297.0	292.6
45°	3600.8	2990.4	918.3	591.7	462.4	346.3	298.1	263.0	249.8	246.6	242.2
47.5°	4087.3	3399.2	1088.1	562.1	424.1	306.8	254.2	224.6	214.8	209.3	206.0
50°	4739.3	3924.0	1276.6	529.3	385.7	269.6	218.1	199.4	192.9	187.4	186.3
52.5°	5495.4	4456.6	1431.1	496.4	347.4	236.7	195.1	184.1	178.6	174.2	173.1
55°	6189.0	4823.7	1422.3	461.3	310.1	210.4	178.6	172.0	165.5	161.1	158.9
57.5°	6620.8	4875.2	1172.5	423.0	267.4	189.6	163.3	158.9	151.2	145.7	144.6
60°	6819.1	4581.5	821.8	372.6	224.6	169.8	146.8	144.6	134.8	127.1	124.9
62.5°	6855.3	4035.8	547.9	310.1	187.4	151.2	130.4	127.1	114.0	100.8	94.2
65°	6708.5	3255.6	379.1	242.2	160.0	131.5	111.8	105.2	91.0	77.8	73.4
67.5°	6243.8	2285.8	264.1	174.2	135.9	104.1	88.8	86.6	75.6	64.7	61.4
70°	5392.4	1302.9	176.4	130.4	107.4	71.2	70.1	72.3	61.4	52.6	48.2
72.5°	4134.4	596.1	109.6	95.3	73.4	48.2	55.9	57.0	47.1	39.4	35.1
75°	2433.8	255.3	69.0	61.4	37.3	31.8	40.5	41.6	31.8	25.2	21.9
77.5°	828.4	96.4	43.8	36.2	18.6	17.5	26.3	26.3	17.5	9.9	7.7
80°	188.5	36.2	21.9	14.2	8.8	7.7	8.8	7.7	4.4	1.1	0.0
82.5°	53.7	14.2	8.8	5.5	3.3	3.3	1.1	0.0	0.0	0.0	0.0
85°	15.3	6.6	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	1.1	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)