

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: P940428

Luminaire Tested: **GALN-SB3C-727-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
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-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15780 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

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



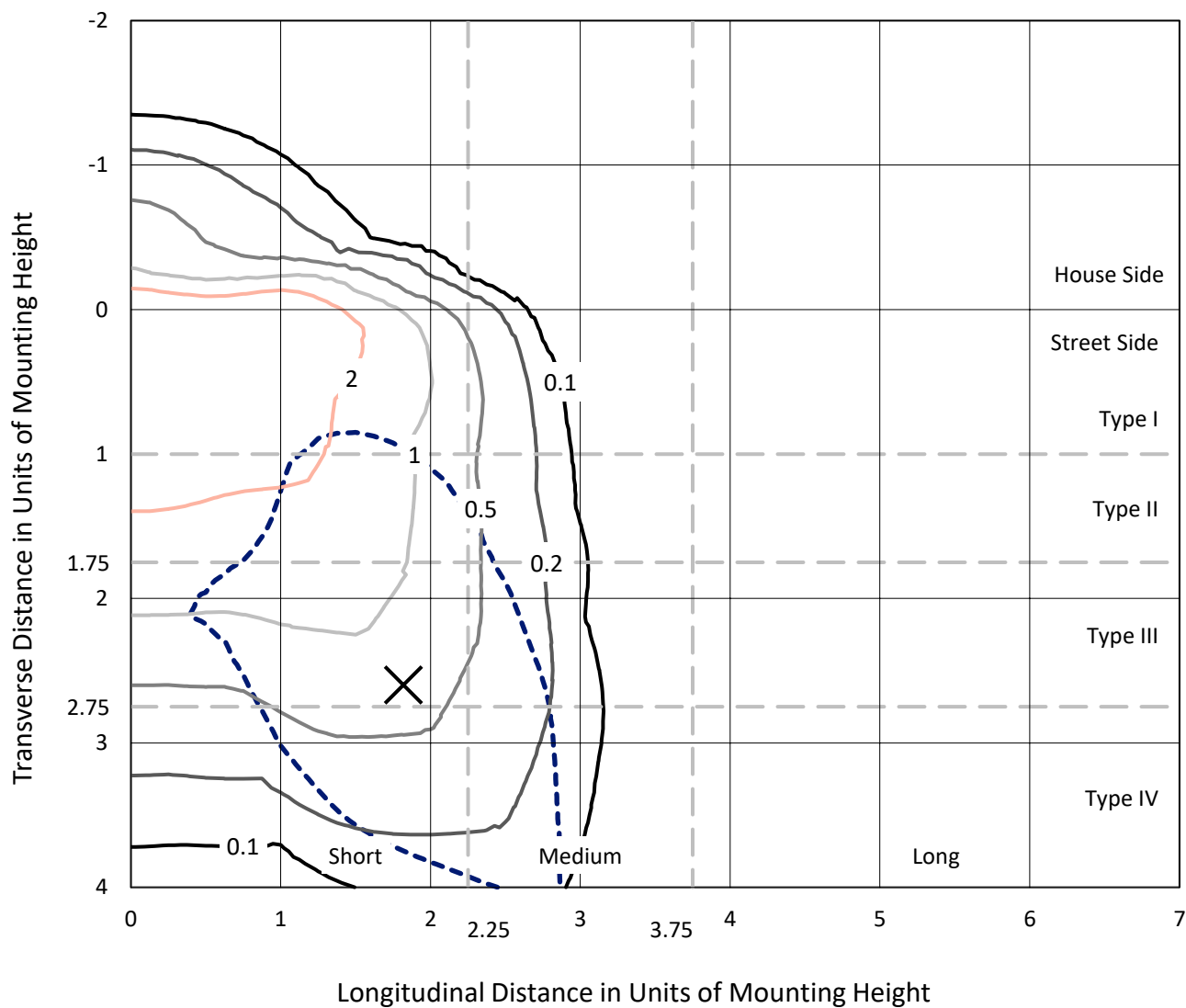
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

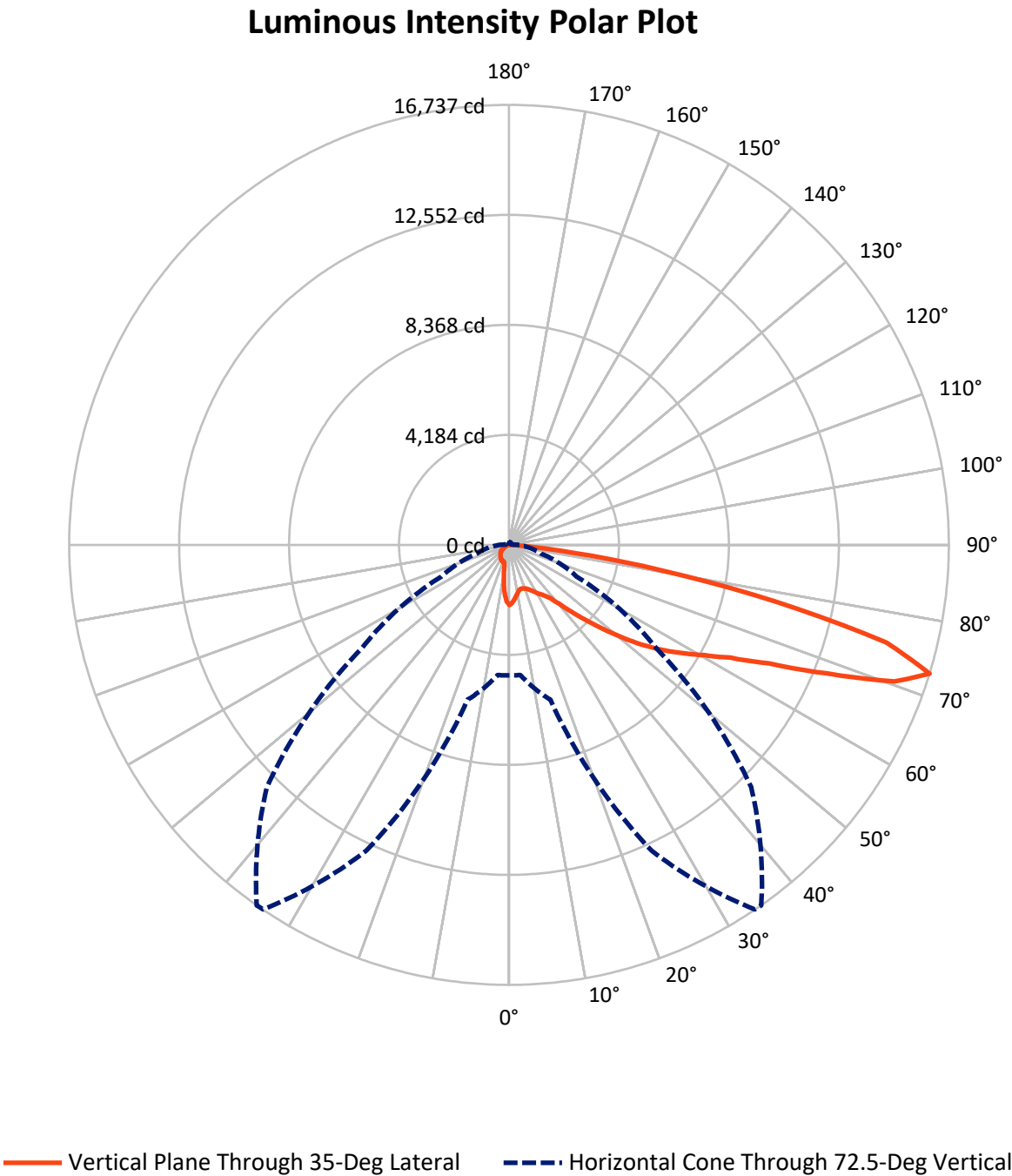
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc

Type IV - Short - N/A

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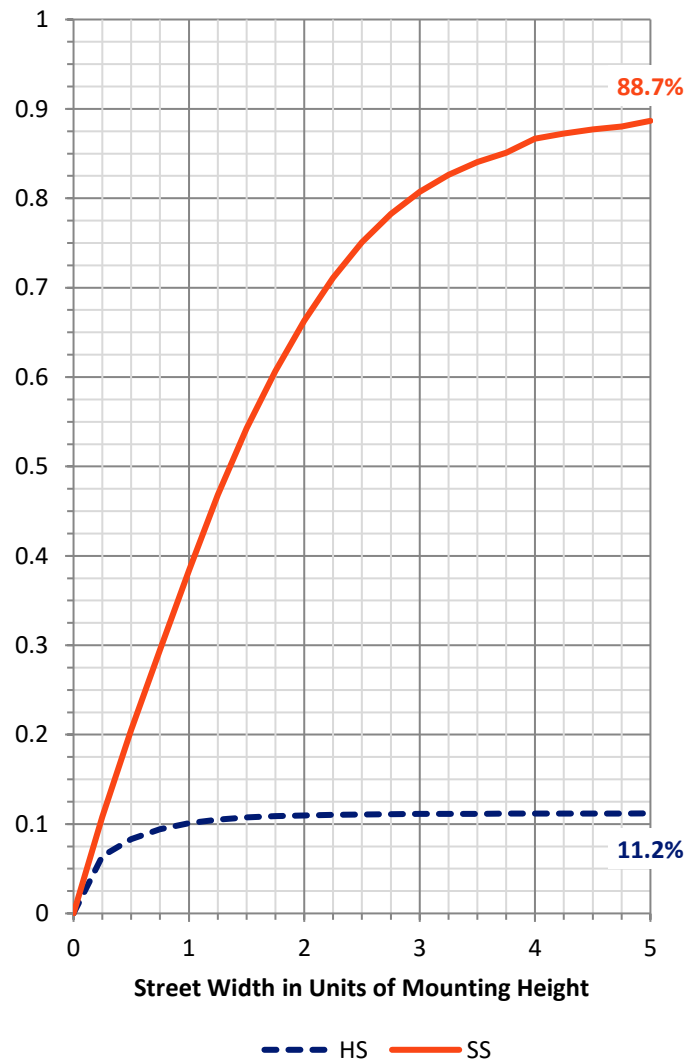
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1776.0	0.0	1776.0
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	14004.0	0.0	14004.0
	% Fixture	88.7	0.0	88.7
Total	Lumens	15780.0	0.0	15780.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.9	1.2
10°-20°	439.7	2.8
20°-30°	714.2	4.5
30°-40°	1191.6	7.6
40°-50°	2254.6	14.3
50°-60°	3582.6	22.7
60°-70°	4431.9	28.1
70°-80°	2754.9	17.5
80°-90°	222.6	1.4
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°	15780.0	100.0
0°-180°	15780.0	100.0

Coefficient of Utilization



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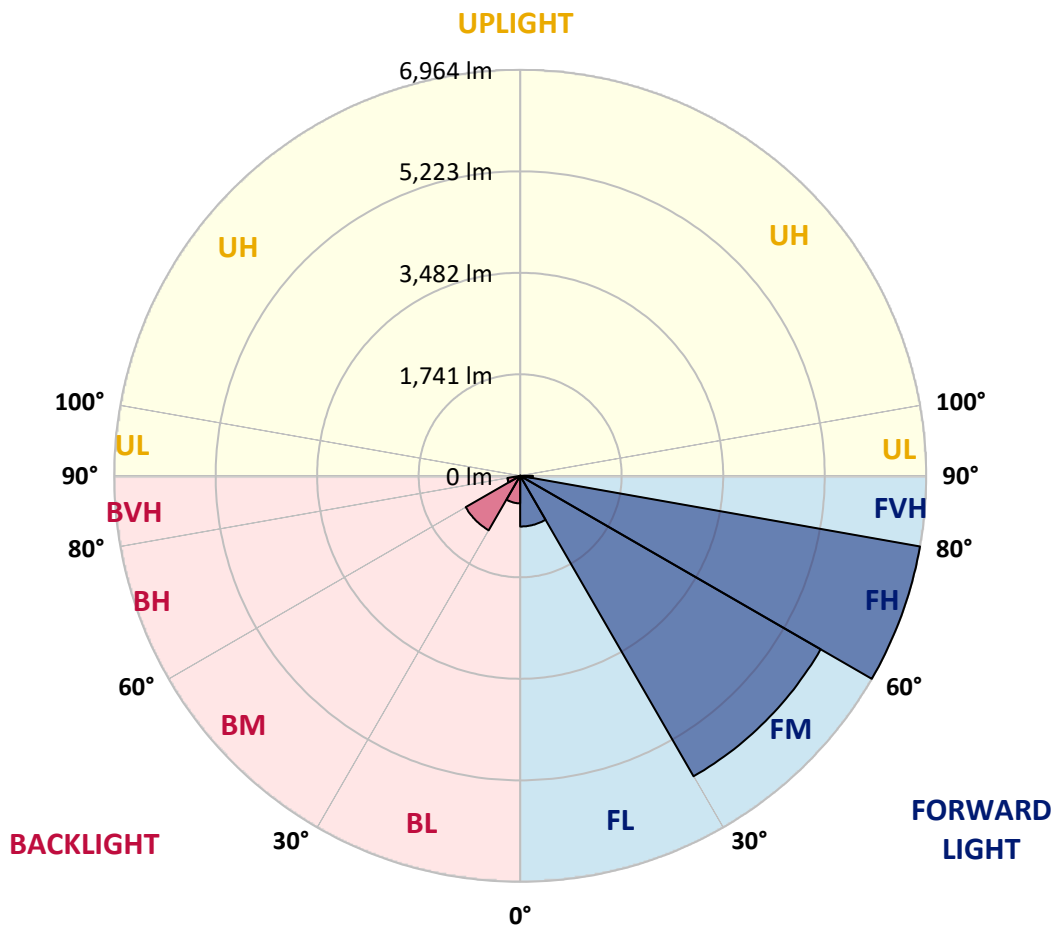
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	869.9	5.5			
FM	(30°-60°)	5950.6	37.7			
FH	(60°-80°)	6963.9	44.1			G3/7500
FVH	(80°-90°)	219.6	1.4			G2/225
BL	(0°-30°)	471.9	3.0	B1/500		
BM	(30°-60°)	1078.2	6.8	B2/2500		
BH	(60°-80°)	222.9	1.4	B1/500		G1/500
BVH	(80°-90°)	3.0	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2287.1	2287.1	2287.1	2287.1	2287.1	2287.1	2287.1	2287.1	2287.1	2287.1	2287.1
2.5°	2185.3	2203.8	2207.3	2213.1	2213.1	2220.0	2231.6	2247.7	2274.3	2288.2	2297.5
5°	2014.2	2028.1	2045.4	2059.3	2085.9	2089.3	2134.4	2178.4	2239.6	2285.9	2318.3
7.5°	1841.9	1858.1	1881.2	1914.7	1949.4	1959.8	2028.1	2102.1	2199.2	2285.9	2340.2
10°	1720.5	1721.6	1742.5	1776.0	1831.5	1844.2	1927.5	2032.7	2154.1	2272.0	2361.1
12.5°	1652.3	1660.4	1669.6	1695.1	1748.2	1756.3	1845.4	1969.1	2109.0	2263.9	2385.3
15°	1652.3	1658.1	1663.8	1676.6	1719.3	1726.3	1804.9	1928.6	2085.9	2267.4	2424.6
17.5°	1669.6	1678.9	1674.2	1689.3	1734.4	1739.0	1808.4	1917.1	2084.7	2289.4	2484.8
20°	1711.2	1718.2	1708.9	1718.2	1763.3	1772.5	1844.2	1939.0	2104.4	2327.5	2559.9
22.5°	1777.1	1780.6	1758.6	1765.6	1811.8	1823.4	1906.6	2001.5	2151.8	2388.8	2660.5
25°	1860.4	1867.3	1833.8	1841.9	1885.8	1899.7	1995.7	2095.1	2226.9	2473.2	2788.9
27.5°	1956.4	1959.8	1930.9	1929.8	1986.4	2006.1	2103.2	2210.7	2327.5	2579.6	2950.7
30°	2066.2	2076.6	2048.9	2044.2	2115.9	2132.1	2228.1	2353.0	2475.5	2739.1	3180.8
32.5°	2152.9	2161.0	2144.8	2156.4	2229.2	2242.0	2379.6	2554.1	2707.9	2965.8	3494.2
35°	2277.8	2282.4	2245.4	2266.2	2349.5	2381.9	2586.5	2836.3	3000.5	3250.2	3903.5
37.5°	2729.9	2729.9	2572.6	2469.7	2549.5	2578.4	2869.8	3191.2	3361.2	3631.8	4419.2
40°	3355.4	3345.0	3114.9	2904.5	2894.1	2950.7	3273.3	3638.7	3827.2	4089.6	4999.6
42.5°	4022.6	4006.4	3693.0	3484.9	3450.2	3469.9	3739.3	4190.2	4382.2	4648.1	5624.0
45°	4614.6	4609.9	4323.2	4043.4	3980.9	4043.4	4320.9	4835.4	4973.0	5252.8	6247.2
47.5°	5110.6	5110.6	4901.3	4718.6	4686.3	4723.3	5108.3	5551.1	5538.4	5896.8	6854.2
50°	5681.8	5677.2	5478.3	5399.7	5433.2	5485.2	6014.8	6305.0	6123.5	6529.3	7396.5
52.5°	6081.8	6109.6	6041.4	6028.7	6199.8	6290.0	6935.2	7042.7	6647.2	7129.4	7802.3
55°	6398.7	6431.0	6509.7	6598.7	6928.2	7046.2	7826.6	7742.2	7085.5	7649.7	8035.9
57.5°	6847.3	6801.0	6922.4	7098.2	7631.2	7773.4	8690.3	8402.4	7438.1	8071.7	8061.3
60°	7391.9	7398.8	7419.6	7641.6	8333.1	8515.7	9541.3	9026.8	7664.7	8330.7	7779.2
62.5°	8046.3	8056.7	8099.5	8440.6	9275.4	9447.7	10447.8	9537.9	7768.8	8257.9	7050.8
65°	8001.2	8045.1	8522.7	9689.3	10708.0	10877.9	11505.8	9896.3	7611.6	7591.9	5740.8
67.5°	7289.0	7360.7	8159.6	11180.9	12867.8	13057.5	12784.6	9966.8	6932.8	5903.8	3745.1
70°	6354.7	6380.2	7341.0	12522.1	15368.8	15560.7	13929.3	9191.0	5260.9	3293.0	1677.7
72.5°	4962.6	4968.4	6095.7	12833.2	16726.2	16736.6	13030.9	6823.0	2829.3	1264.9	582.7
75°	3545.0	3510.4	4082.7	10407.4	14715.5	14833.5	9769.1	3200.5	1081.1	597.8	290.2
77.5°	1900.9	1939.0	2310.2	6172.0	10165.7	10366.9	5330.3	922.7	550.4	407.0	191.9
80°	587.4	619.7	947.0	2825.9	5758.1	5879.5	1976.0	410.5	383.9	290.2	126.0
82.5°	185.0	191.9	441.7	1187.5	2390.0	2445.5	572.3	232.4	262.5	191.9	74.0
85°	53.2	54.3	196.6	442.8	590.8	602.4	160.7	90.2	150.3	119.1	38.2
87.5°	5.8	18.5	74.0	74.0	52.0	50.9	17.3	19.7	42.8	15.0	6.9
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°	2287.1	2287.1	2287.1	2287.1	2287.1	2287.1	2287.1	2287.1	2287.1	2287.1	2287.1
2.5°	2291.7	2292.8	2277.8	2252.4	2224.6	2201.5	2172.6	2149.5	2133.3	2128.6	2136.7
5°	2307.9	2299.8	2257.0	2179.5	2087.0	2007.2	1918.2	1847.7	1801.4	1781.8	1788.7
7.5°	2332.1	2309.0	2215.4	2062.7	1885.8	1728.6	1569.0	1445.3	1366.7	1327.4	1333.1
10°	2353.0	2306.7	2146.0	1893.9	1623.4	1385.2	1170.1	1021.0	937.7	898.4	899.6
12.5°	2372.6	2305.6	2055.8	1693.9	1327.4	1036.0	836.0	762.0	738.8	730.7	728.4
15°	2409.6	2309.0	1942.5	1465.0	1032.5	782.8	709.9	708.8	713.4	711.1	709.9
17.5°	2460.5	2312.5	1814.1	1222.2	796.7	690.3	686.8	697.2	704.2	700.7	699.5
20°	2526.4	2326.4	1677.7	981.7	684.5	667.2	675.2	684.5	690.3	684.5	683.3
22.5°	2618.9	2350.6	1528.6	788.6	648.7	653.3	660.2	670.6	676.4	668.3	667.2
25°	2732.2	2388.8	1381.7	685.7	631.3	637.1	647.5	659.1	666.0	657.9	656.7
27.5°	2879.0	2450.1	1246.4	662.5	614.0	617.4	632.5	649.8	659.1	648.7	648.7
30°	3091.8	2550.7	1129.7	672.9	603.6	595.5	616.3	640.6	651.0	641.7	640.6
32.5°	3373.9	2692.9	1058.0	689.1	598.9	570.0	589.7	620.9	638.2	632.5	632.5
35°	3743.9	2909.1	1030.2	707.6	595.5	543.4	557.3	590.8	620.9	626.7	626.7
37.5°	4192.5	3209.7	1038.3	715.7	585.1	521.5	528.4	557.3	596.6	615.1	619.7
40°	4702.4	3560.1	1084.6	707.6	573.5	503.0	504.1	526.1	560.8	588.5	597.8
42.5°	5228.5	3969.4	1170.1	677.6	563.1	486.8	483.3	498.3	521.5	541.1	549.2
45°	5729.2	4390.3	1254.5	635.9	550.4	470.6	462.5	468.3	472.9	481.0	485.6
47.5°	6166.3	4686.3	1230.2	597.8	533.0	452.1	438.2	435.9	422.0	420.9	419.7
50°	6468.0	4751.0	1092.7	559.6	507.6	431.3	409.3	395.4	371.2	359.6	360.7
52.5°	6564.0	4495.5	892.6	521.5	466.0	403.5	372.3	350.3	320.3	309.9	308.7
55°	6436.8	3994.8	713.4	475.2	408.2	366.5	331.8	302.9	278.7	265.9	265.9
57.5°	6125.8	3357.7	564.2	420.9	346.9	324.9	290.2	261.3	240.5	227.8	225.5
60°	5610.1	2666.3	446.3	356.1	296.0	279.8	244.0	225.5	207.0	191.9	188.5
62.5°	4827.3	1903.2	350.3	282.1	247.4	228.9	208.1	194.2	172.3	151.5	148.0
65°	3767.0	1164.3	270.6	207.0	198.9	189.6	176.9	164.2	137.6	116.8	113.3
67.5°	2376.1	551.5	193.1	156.1	157.2	152.6	146.8	136.4	116.8	98.3	96.0
70°	1046.4	267.1	127.2	119.1	116.8	116.8	121.4	117.9	99.4	82.1	78.6
72.5°	356.1	143.4	94.8	90.2	84.4	83.2	101.7	98.3	79.8	63.6	60.1
75°	186.2	96.0	69.4	64.7	50.9	61.3	80.9	76.3	56.7	41.6	38.2
77.5°	121.4	68.2	47.4	41.6	28.9	40.5	60.1	53.2	33.5	20.8	18.5
80°	76.3	45.1	27.7	19.7	13.9	22.0	32.4	23.1	12.7	4.6	3.5
82.5°	40.5	23.1	10.4	6.9	5.8	6.9	8.1	5.8	2.3	0.0	0.0
85°	16.2	8.1	3.5	2.3	1.2	0.0	2.3	1.2	0.0	0.0	0.0
87.5°	5.8	1.2	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)