

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: P943314

Luminaire Tested: **GALN-SB7D-727-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB7D-727-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 49016 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 512.8
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



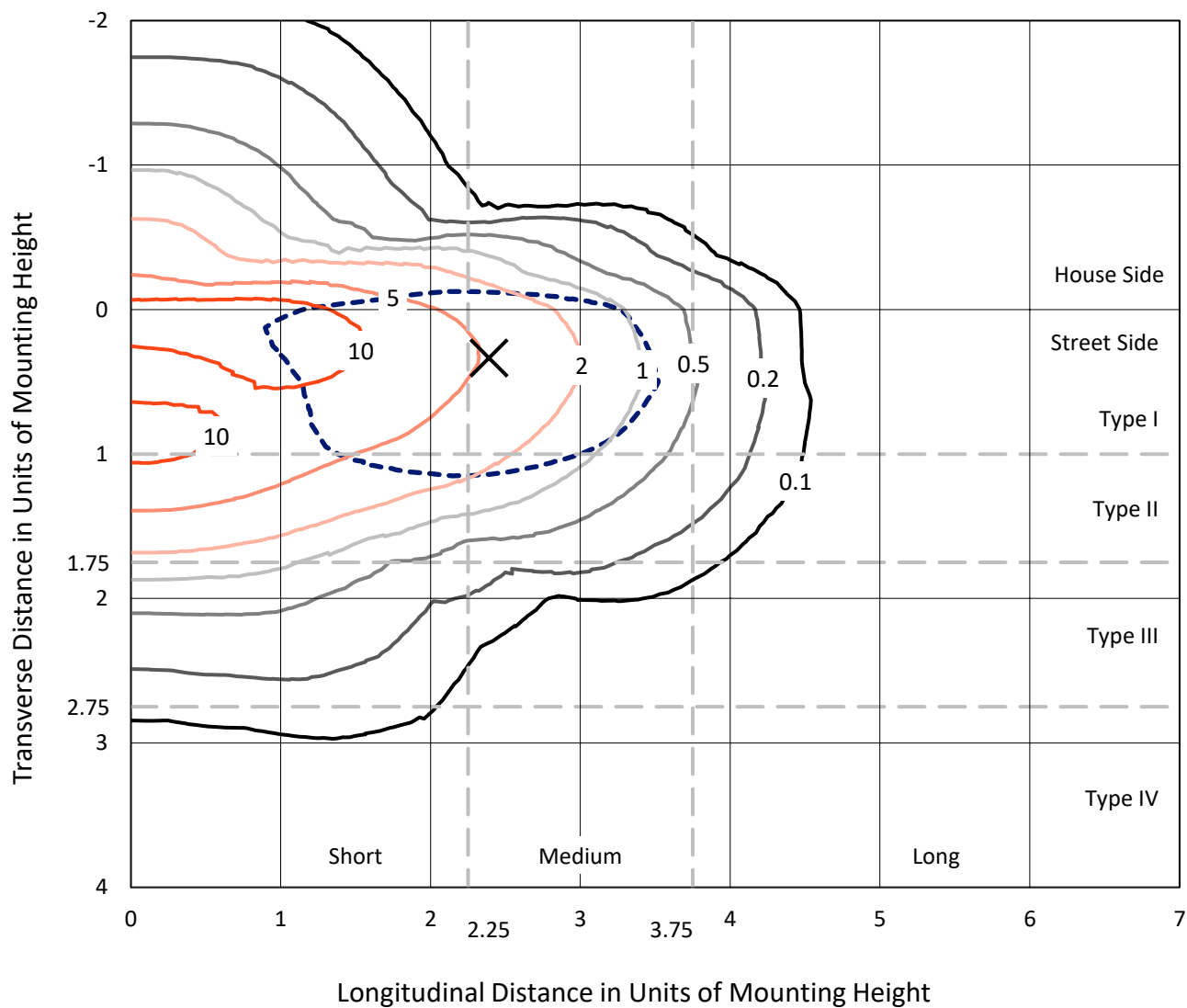
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Iso-Footcandle Lines of Horizontal Illumination

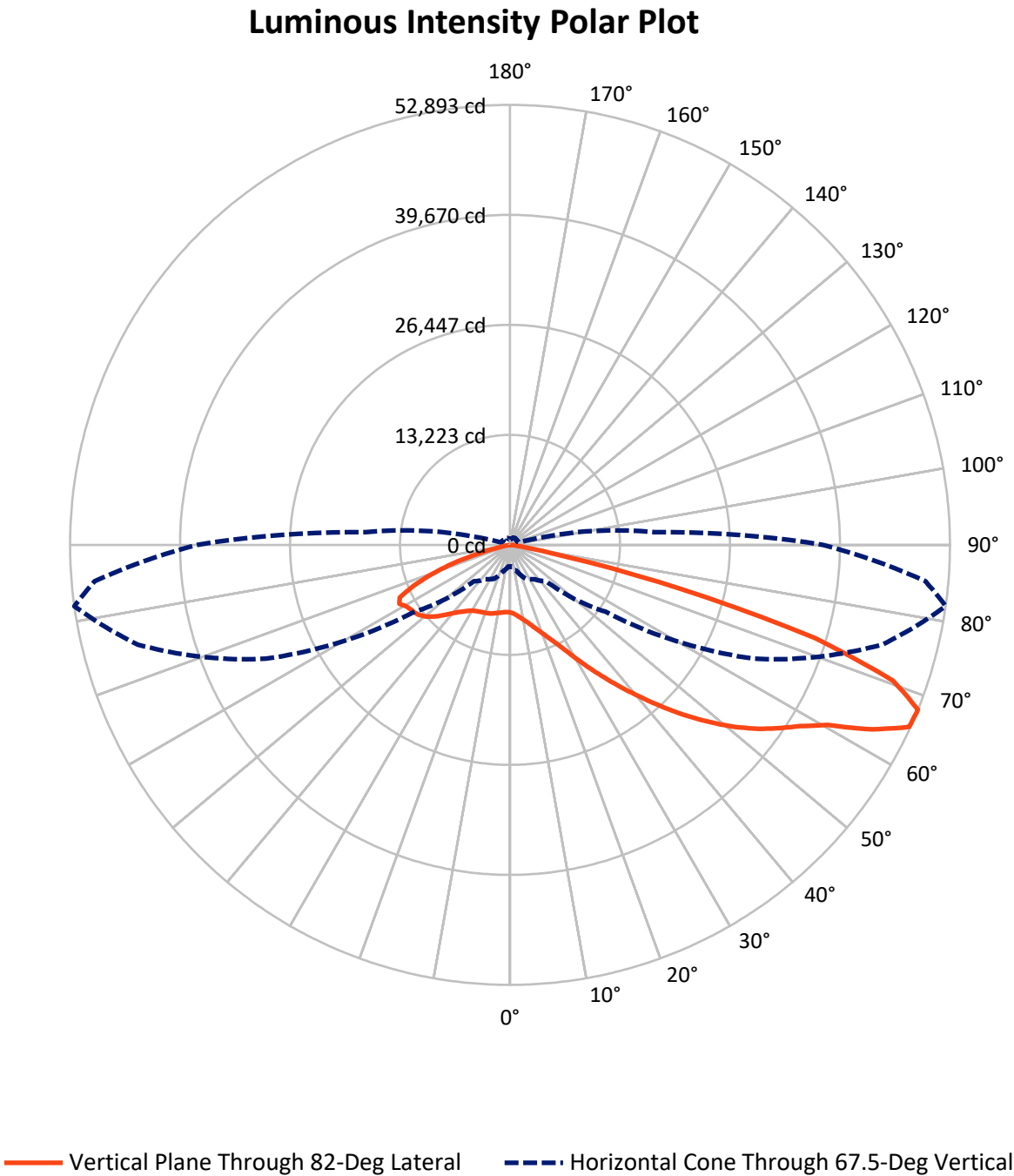
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 fc
Type II - Medium - N/A

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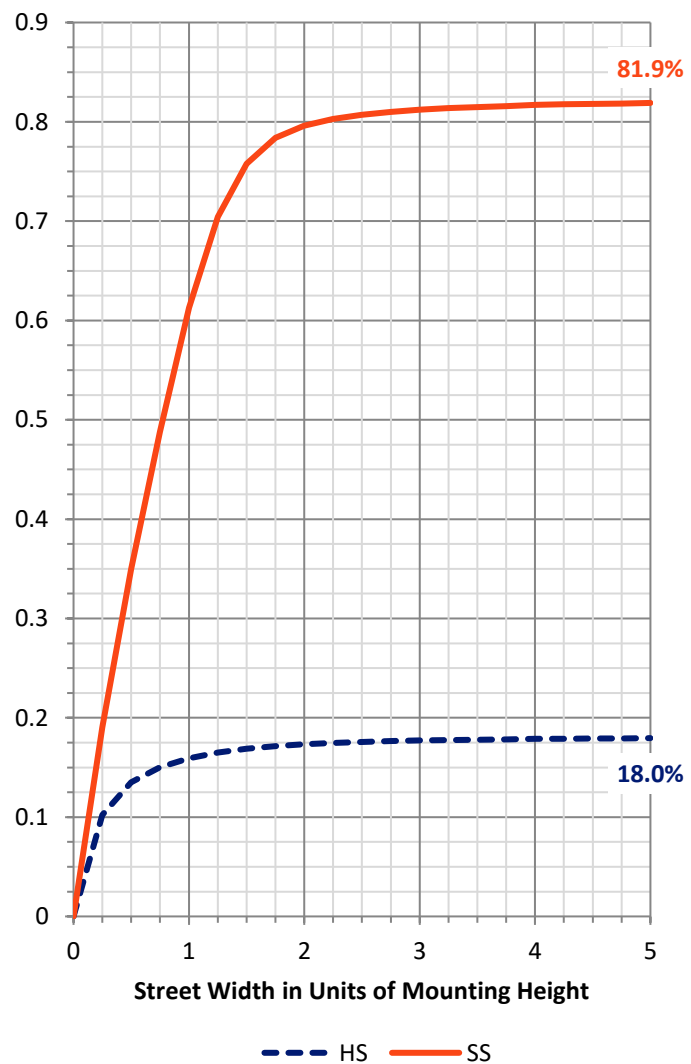
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8878.8	0.0	8878.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	40137.2	0.0	40137.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	49016.0	0.0	49016.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	723.5	1.5
10°-20°	1880.0	3.8
20°-30°	3011.1	6.1
30°-40°	5324.6	10.9
40°-50°	9329.2	19.0
50°-60°	12442.5	25.4
60°-70°	11583.4	23.6
70°-80°	4445.7	9.1
80°-90°	276.1	0.6
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°	49016.0	100.0
0°-180°	49016.0	100.0

Coefficient of Utilization



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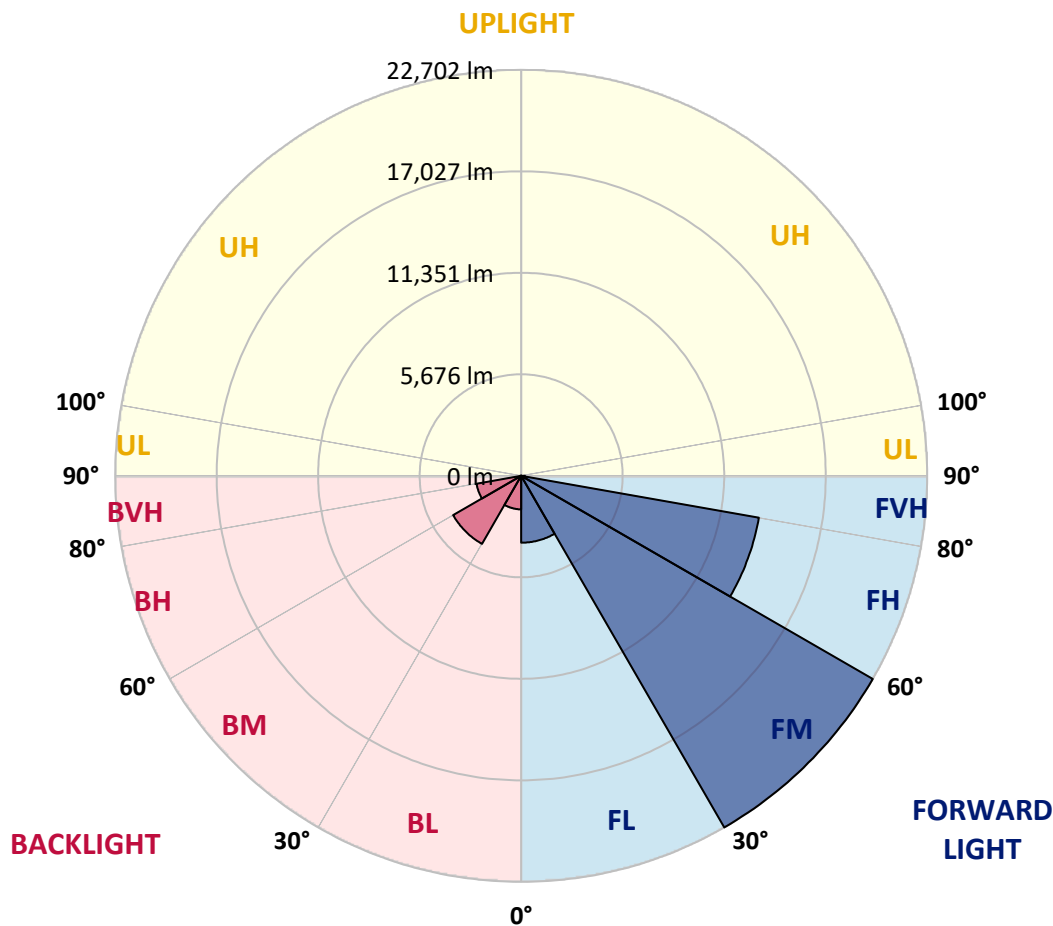
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3739.4	7.6			
FM	(30°-60°)	22702.2	46.3			
FH	(60°-80°)	13494.8	27.5			G5
FVH	(80°-90°)	200.7	0.4			G2/225
BL	(0°-30°)	1875.2	3.8	B3/2500		
BM	(30°-60°)	4394.1	9.0	B3/5000		
BH	(60°-80°)	2534.2	5.2	B4/5000		G4/5000
BVH	(80°-90°)	75.4	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	8120.3	8120.3	8120.3	8120.3	8120.3	8120.3	8120.3	8120.3	8120.3	8120.3	8120.3
2.5°	8582.6	8632.0	8603.8	8589.7	8564.9	8529.7	8501.4	8413.2	8321.4	8261.5	8240.3
5°	8755.5	8804.9	8801.4	8815.5	8833.2	8843.7	8836.7	8737.9	8607.3	8505.0	8445.0
7.5°	8607.3	8663.8	8709.6	8780.2	8903.7	9034.3	9097.8	9076.7	8942.6	8801.4	8727.3
10°	8187.3	8247.3	8356.7	8522.6	8783.7	9066.1	9302.5	9411.9	9327.2	9171.9	9069.6
12.5°	7418.0	7478.0	7693.3	8053.2	8490.8	8981.4	9433.1	9726.0	9747.2	9591.9	9471.9
15°	6553.4	6613.4	6842.8	7294.5	7961.5	8748.5	9503.7	10057.7	10244.8	10110.7	9966.0
17.5°	6017.0	6069.9	6242.8	6606.3	7301.6	8282.6	9479.0	10410.6	10837.6	10731.8	10558.9
20°	5854.7	5900.5	5981.7	6235.8	6814.6	7799.2	9316.6	10742.4	11476.4	11416.4	11222.3
22.5°	6027.6	6069.9	6094.6	6207.6	6571.0	7481.5	9111.9	11081.1	12217.5	12224.6	11988.1
25°	6426.4	6468.7	6440.5	6511.1	6669.9	7382.7	9034.3	11479.9	13149.2	13226.8	12958.6
27.5°	7082.8	7086.3	7019.2	7015.7	7040.4	7530.9	9115.5	11906.9	14324.3	14469.0	14137.3
30°	8399.1	8346.2	8088.5	7809.7	7682.7	7975.6	9341.3	12411.6	15711.2	15968.8	15552.4
32.5°	10428.3	10350.6	9877.7	9210.8	8540.2	8692.0	9747.2	12986.8	17221.7	17687.5	17179.3
35°	12630.4	12609.2	12115.2	11123.5	9951.9	9711.9	10407.1	13742.0	18869.7	19610.8	19007.3
37.5°	14677.2	14666.6	14384.3	13216.2	11790.5	11134.1	11465.8	14730.2	20634.2	21707.0	20994.2
40°	16547.6	16579.4	16297.0	15252.5	13816.1	12958.6	12905.7	15951.2	22596.4	23990.3	23143.4
42.5°	18163.9	18199.2	17913.3	17140.5	15817.1	14977.2	14673.7	17447.5	24512.6	26443.0	25440.8
45°	19261.4	19480.2	19437.9	18820.3	17871.0	16999.3	16798.2	19325.0	26697.1	29043.9	27868.7
47.5°	19572.0	19773.1	20090.8	20175.5	19596.7	18739.1	18979.1	21587.1	28906.3	31648.3	30310.8
50°	18806.2	18993.2	19653.2	20531.9	20934.2	20669.5	21100.1	24011.5	31168.4	34245.7	32707.0
52.5°	17295.8	17486.3	18319.2	19709.6	21350.6	22183.5	23228.1	26400.7	33359.9	36705.4	34976.2
55°	15111.3	15312.5	16381.7	17955.7	20556.6	22808.1	25003.2	28786.3	35367.9	38918.1	37023.0
57.5°	12139.9	12288.1	13399.7	15601.8	18559.2	22187.0	26312.4	31390.7	37259.5	41092.0	39052.2
60°	7912.1	8042.7	9334.3	11790.5	15248.9	20111.9	26573.6	34295.1	39772.1	43918.7	41787.2
62.5°	5261.8	5350.0	6115.8	7919.1	10738.8	16127.7	25045.5	36613.7	43456.4	48838.2	46477.3
65°	3610.2	3698.4	4464.2	5720.6	6938.1	10668.3	20651.9	36306.6	46794.9	52744.8	49953.4
67.5°	2576.2	2650.3	3299.6	4485.4	5021.8	6197.0	13999.7	32382.4	46315.0	52893.1	50140.4
70°	1845.7	1888.0	2424.4	3493.7	3991.3	3723.1	7785.0	24766.7	40552.1	48841.7	46322.0
72.5°	1291.6	1305.7	1683.3	2660.9	3214.9	2717.4	3705.5	16512.3	30670.8	38335.8	35911.4
75°	875.2	892.8	1132.8	1951.6	2579.7	2075.1	1962.1	8854.3	18005.1	21220.0	19021.5
77.5°	536.4	543.5	730.5	1334.0	1930.4	1581.0	1263.4	3751.4	6966.3	6839.3	5830.0
80°	303.5	303.5	465.8	829.3	1316.3	1019.9	885.8	1595.1	2205.6	1937.4	1708.0
82.5°	169.4	172.9	338.8	515.2	871.7	603.5	487.0	737.6	952.8	843.4	734.0
85°	70.6	77.6	208.2	243.5	416.4	300.0	197.6	310.6	352.9	314.1	229.4
87.5°	7.1	10.6	63.5	45.9	49.4	60.0	28.2	60.0	49.4	49.4	35.3
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°	8120.3	8120.3	8120.3	8120.3	8120.3	8120.3	8120.3	8120.3	8120.3	8120.3	8120.3
2.5°	8173.2	8120.3	7986.2	7830.9	7626.2	7527.4	7393.3	7301.6	7223.9	7231.0	7160.4
5°	8332.0	8197.9	7898.0	7523.9	7058.1	6726.3	6373.4	6129.9	5932.3	5889.9	5794.7
7.5°	8550.8	8339.1	7813.3	7139.2	6352.2	5755.8	5223.0	4880.6	4637.1	4559.5	4481.9
10°	8833.2	8526.1	7703.9	6655.7	5522.9	4764.2	4192.5	3924.3	3758.4	3701.9	3659.6
12.5°	9161.4	8741.4	7559.2	6066.4	4668.9	3938.4	3574.9	3440.8	3387.9	3370.2	3359.6
15°	9574.3	9009.6	7340.4	5367.7	3945.5	3433.7	3278.5	3260.8	3267.9	3260.8	3257.3
17.5°	10064.8	9302.5	6983.9	4647.7	3458.4	3176.1	3119.7	3133.8	3151.4	3147.9	3140.8
20°	10601.2	9591.9	6528.7	4009.0	3126.7	2992.6	2960.9	2975.0	2989.1	2982.0	2978.5
22.5°	11211.7	9902.5	6024.1	3511.4	2904.4	2823.2	2787.9	2791.5	2791.5	2777.3	2770.3
25°	11942.2	10244.8	5494.7	3158.5	2735.0	2671.5	2629.1	2615.0	2593.8	2551.5	2544.4
27.5°	12813.9	10608.3	4986.5	2911.4	2600.9	2540.9	2491.5	2456.2	2403.3	2332.7	2325.6
30°	13795.0	11049.4	4556.0	2756.2	2495.0	2435.0	2378.6	2325.6	2248.0	2159.8	2152.7
32.5°	14949.0	11522.3	4241.9	2653.8	2399.7	2336.2	2269.2	2205.6	2120.9	2032.7	2036.2
35°	16325.3	12094.0	4058.4	2583.2	2325.6	2240.9	2166.8	2096.2	2032.7	1955.1	1948.0
37.5°	17818.1	12701.0	4001.9	2548.0	2276.2	2145.6	2061.0	2011.5	2004.5	1958.6	1955.1
40°	19452.0	13420.9	4044.3	2526.8	2223.3	2053.9	1962.1	1951.6	1969.2	1888.0	1891.6
42.5°	21181.2	14274.9	4114.8	2502.1	2149.2	1962.1	1873.9	1873.9	1859.8	1746.9	1746.9
45°	23051.6	15259.5	4185.4	2442.1	2061.0	1870.4	1803.3	1778.6	1718.6	1609.2	1605.7
47.5°	24936.1	16261.8	4238.4	2332.7	1955.1	1792.7	1732.8	1676.3	1588.1	1489.2	1485.7
50°	26725.3	17161.7	4181.9	2170.4	1835.1	1718.6	1655.1	1577.5	1482.2	1415.1	1404.6
52.5°	28324.0	17941.6	3941.9	1979.8	1708.0	1641.0	1584.5	1503.4	1425.7	1355.1	1348.1
55°	29714.4	18573.3	3518.4	1799.8	1595.1	1573.9	1517.5	1415.1	1309.3	1249.3	1242.2
57.5°	31048.4	19053.2	2989.1	1651.6	1492.8	1499.8	1415.1	1323.4	1224.6	1161.1	1154.0
60°	32823.5	19695.5	2452.7	1514.0	1383.4	1404.6	1312.8	1245.7	1122.2	1041.1	1030.5
62.5°	35660.8	20694.2	1948.0	1344.6	1256.3	1263.4	1224.6	1143.4	995.2	899.9	892.8
65°	37912.3	20327.2	1535.1	1161.1	1111.6	1122.2	1122.2	1034.0	875.2	765.8	755.2
67.5°	37658.3	17405.2	1224.6	981.1	974.0	981.1	1005.8	931.7	776.4	688.2	674.0
70°	34690.3	13844.4	981.1	815.2	847.0	829.3	899.9	850.5	698.7	610.5	599.9
72.5°	28306.3	9973.0	748.2	674.0	649.3	677.6	811.7	765.8	582.3	483.5	472.9
75°	16540.6	5321.8	557.6	532.9	469.4	564.6	719.9	652.9	444.7	356.4	345.8
77.5°	5385.3	1856.3	409.4	391.7	349.4	455.2	614.1	550.5	363.5	282.3	271.7
80°	1443.4	561.1	278.8	257.6	225.9	338.8	487.0	437.6	261.1	183.5	180.0
82.5°	578.8	236.4	162.3	144.7	123.5	232.9	384.7	352.9	194.1	116.5	116.5
85°	187.0	77.6	60.0	45.9	56.5	144.7	229.4	240.0	137.6	60.0	45.9
87.5°	24.7	10.6	10.6	14.1	10.6	24.7	70.6	67.1	38.8	7.1	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)