

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: P952729

Luminaire Tested: **GALN-SB6C-730-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952729
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6C-730-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46188 lumens
Efficiency: N/A
Efficacy: 153.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

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

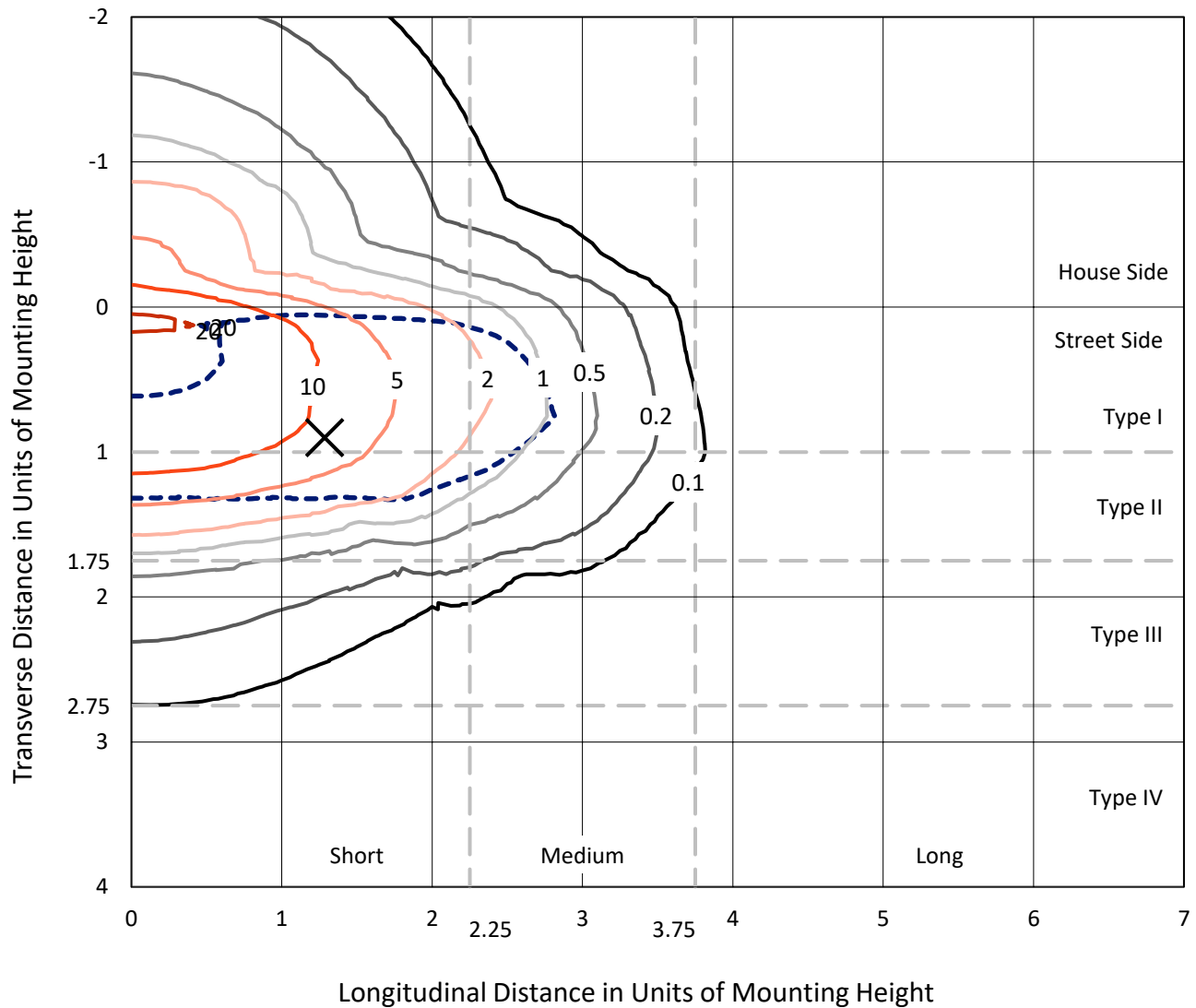


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

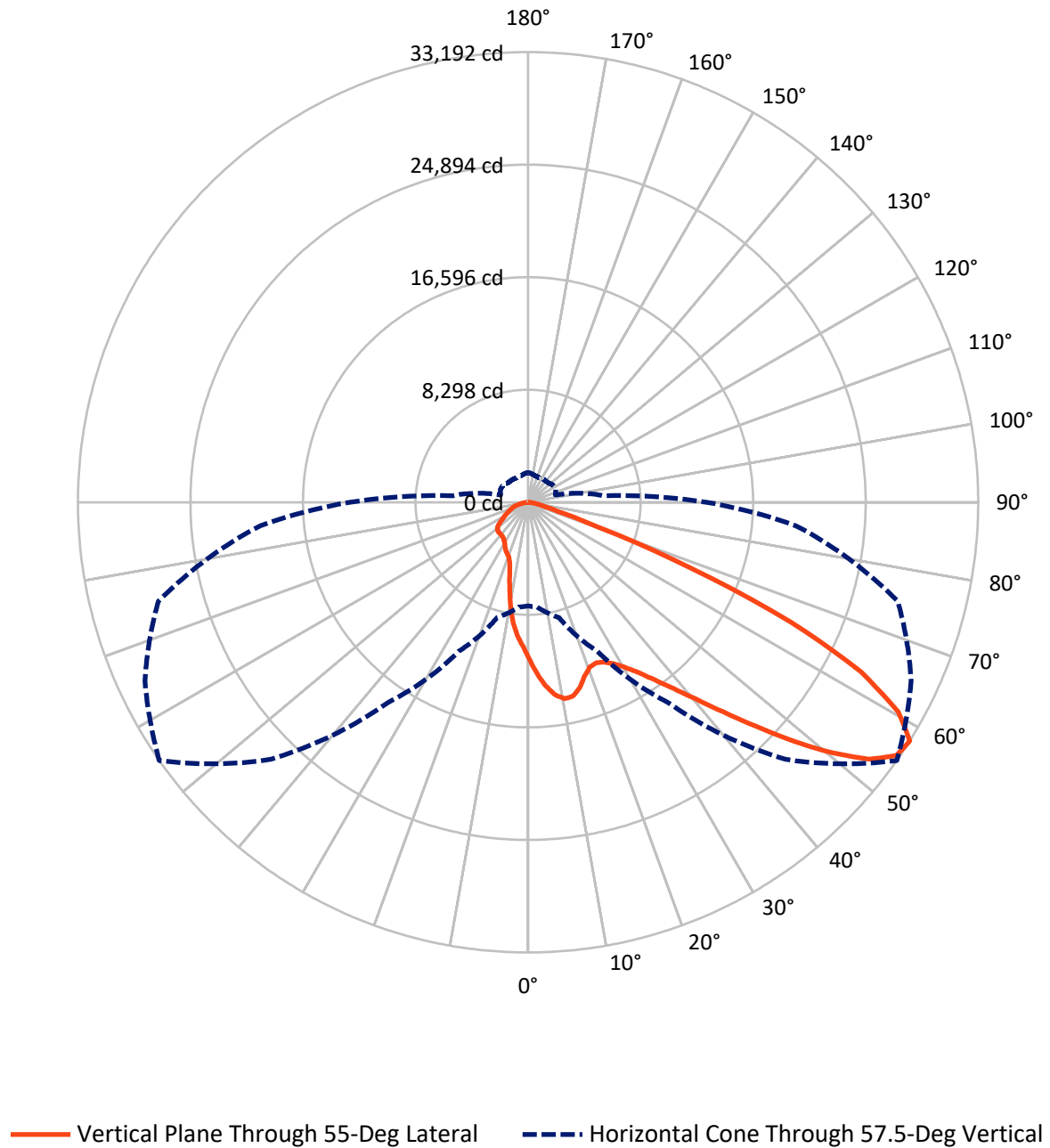


Based on 25 foot mounting height. Maximum calculated value = 22.4 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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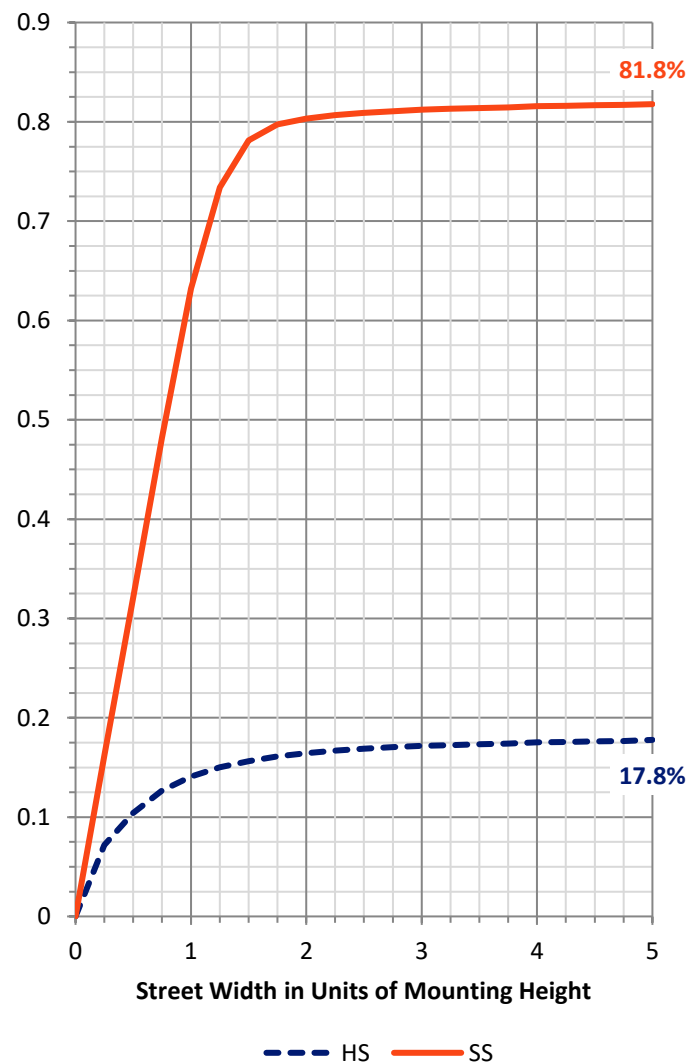
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8357.5	0.0	8357.5
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	37830.5	0.0	37830.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	46188.0	0.0	46188.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1073.9	2.3
10°-20°	2710.6	5.9
20°-30°	4325.4	9.4
30°-40°	6848.2	14.8
40°-50°	10481.8	22.7
50°-60°	11227.0	24.3
60°-70°	7063.0	15.3
70°-80°	2088.7	4.5
80°-90°	369.3	0.8
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°	46188.0	100.0
0°-180°	46188.0	100.0

Coefficient of Utilization



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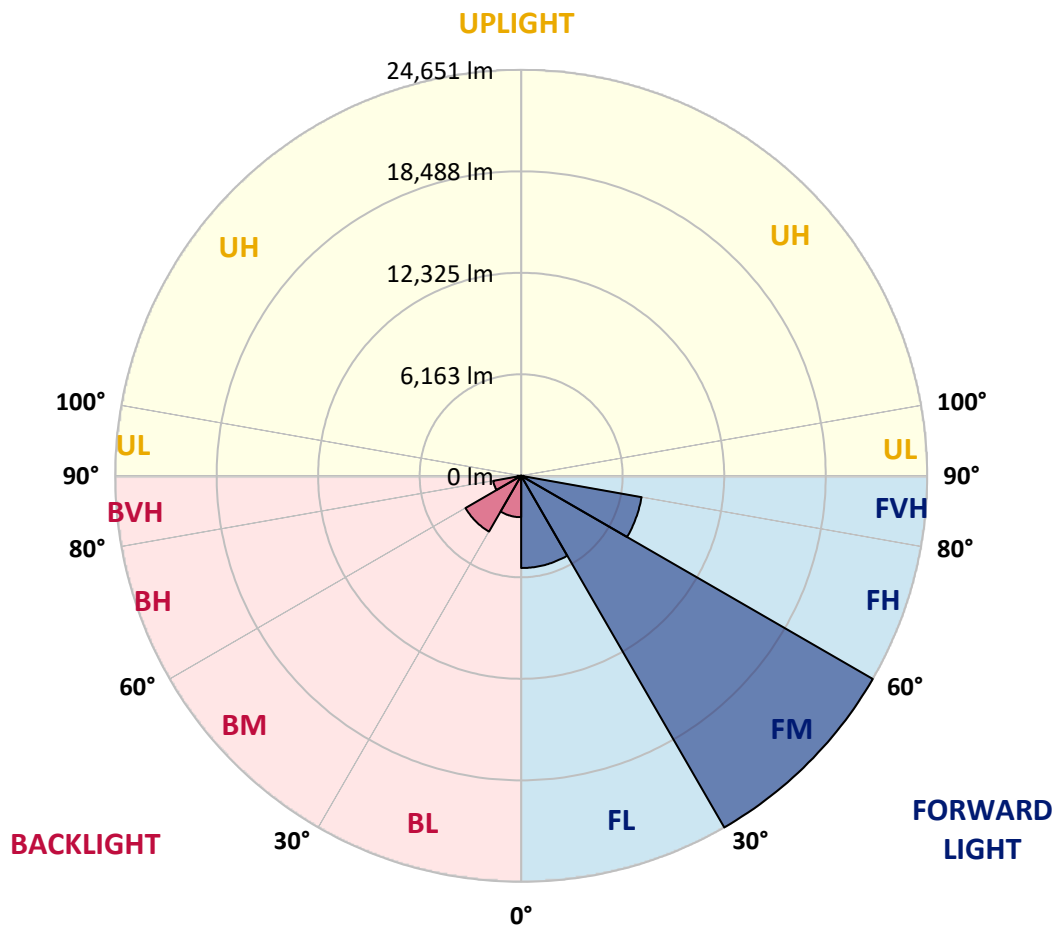
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5598.0	12.1			
FM	(30°-60°)	24650.9	53.4			
FH	(60°-80°)	7425.6	16.1			G3/7500
FVH	(80°-90°)	156.0	0.3			G2/225
BL	(0°-30°)	2512.0	5.4	B4/5000		
BM	(30°-60°)	3906.2	8.5	B3/5000		
BH	(60°-80°)	1726.0	3.7	B3/2500		G3/2500
BVH	(80°-90°)	213.3	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	11573.2	11573.2	11573.2	11573.2	11573.2	11573.2	11573.2	11573.2	11573.2	11573.2	11573.2
2.5°	13278.0	13268.5	13321.0	13141.9	13020.2	12855.4	12638.1	12361.2	12062.7	11747.5	11611.4
5°	14474.3	14390.7	14445.6	14311.9	14178.2	13929.9	13607.5	13156.3	12604.7	11976.7	11642.5
7.5°	14285.6	14228.3	14369.2	14488.6	14588.9	14557.8	14321.5	13848.7	13137.2	12225.1	11740.4
10°	12764.7	12700.2	12898.4	13311.5	13917.9	14445.6	14732.1	14438.5	13681.6	12497.3	11835.9
12.5°	11422.8	11391.7	11523.1	11857.4	12530.7	13543.1	14679.6	14954.2	14247.4	12819.6	11964.8
15°	10849.7	10811.5	10895.1	11064.6	11494.4	12437.6	14202.1	15307.6	14803.8	13192.1	12170.1
17.5°	10723.2	10680.2	10716.0	10804.4	11081.3	11800.0	13481.0	15481.9	15384.0	13607.5	12342.1
20°	10957.2	10921.4	10926.1	10921.4	11114.8	11685.4	12979.6	15415.0	15890.2	13989.6	12509.2
22.5°	11523.1	11463.4	11465.8	11339.2	11444.3	11886.0	12848.2	15236.0	16341.5	14323.9	12635.7
25°	12444.7	12337.3	12358.8	12036.4	12007.8	12334.9	13053.6	15097.5	16790.4	14591.3	12659.6
27.5°	13705.4	13583.7	13519.2	13039.3	12810.0	12972.4	13471.4	15145.2	17215.4	14822.9	12599.9
30°	15281.3	15133.3	15002.0	14321.5	13906.0	13846.3	14120.9	15460.4	17716.8	15066.4	12497.3
32.5°	17213.0	17041.1	16802.3	15899.7	15314.7	15002.0	14961.4	16021.5	18304.2	15376.8	12444.7
35°	19512.3	19287.9	18948.8	17781.3	17041.1	16401.2	16069.3	16830.9	19108.8	15844.8	12504.4
37.5°	21880.9	21627.8	21317.4	19927.8	19018.1	18074.9	17420.7	17929.3	20180.9	16480.0	12662.0
40°	24065.7	23781.6	23492.6	22255.8	21279.2	20142.7	19075.4	19318.9	21491.7	17239.2	12929.4
42.5°	25355.1	25144.9	25035.1	24366.5	23612.0	22458.8	21133.6	20966.5	22965.0	18113.1	13235.1
45°	25297.8	25211.8	25550.8	25827.8	25648.7	25008.8	23545.2	22788.3	24443.0	18870.0	13516.8
47.5°	23946.3	24003.6	24760.5	26317.3	27002.6	27336.9	26291.0	24576.7	25727.5	19435.9	13643.4
50°	20269.2	20317.0	22069.6	25426.7	27351.2	29235.1	29015.4	26322.1	26723.2	19782.1	13614.7
52.5°	17358.6	17389.7	18141.8	22785.9	26200.3	30190.2	31470.0	27967.2	27451.5	19877.7	13454.7
55°	13075.1	13182.5	14025.4	17876.8	23206.1	29433.3	32964.7	29662.5	27912.3	19887.2	13287.6
57.5°	7638.3	7755.3	8796.3	12134.3	18036.7	26794.8	33191.5	31166.7	28225.1	19810.8	13187.3
60°	3741.5	3791.7	4245.3	6377.6	11121.9	21711.4	31367.3	31895.0	28399.4	19770.2	13182.5
62.5°	2521.4	2514.3	2533.4	3147.0	5479.8	13949.0	27566.1	30619.9	28306.3	19615.0	13134.8
65°	2168.0	2141.8	2070.1	2208.6	2839.0	6380.0	21298.3	26813.9	27597.1	19225.8	12807.7
67.5°	1874.3	1876.7	1879.1	1836.1	2027.2	2944.0	13015.4	21121.7	25051.8	17382.5	11546.9
70°	1552.0	1573.5	1583.0	1583.0	1652.3	1931.7	5556.2	14476.7	19760.7	13629.0	9300.1
72.5°	1413.5	1368.2	1372.9	1349.1	1349.1	1470.8	2237.3	8206.5	12449.5	7666.9	5675.6
75°	1153.3	1181.9	1186.7	1170.0	1115.1	1122.2	1327.6	3443.1	5327.0	3180.4	2805.6
77.5°	995.7	995.7	1005.2	993.3	950.3	840.5	885.8	1334.7	1812.3	1303.7	1401.6
80°	799.9	797.5	838.1	862.0	795.1	620.8	565.9	737.8	804.7	573.0	728.3
82.5°	389.2	413.1	575.4	656.6	604.1	448.9	346.2	458.4	429.8	253.1	327.1
85°	226.8	214.9	257.9	365.3	346.2	248.3	167.1	238.8	224.4	128.9	131.3
87.5°	71.6	66.9	52.5	124.2	100.3	69.2	45.4	69.2	62.1	28.7	28.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11573.2	11573.2	11573.2	11573.2	11573.2	11573.2	11573.2	11573.2	11573.2	11573.2
2.5°	11441.9	11160.1	10880.8	10625.3	10470.1	10369.8	10269.5	10157.3	10114.3	10049.9
5°	11327.3	10782.9	10298.2	9880.3	9500.7	9202.2	8901.4	8657.8	8548.0	8622.0
7.5°	11260.4	10472.5	9725.1	8958.7	8220.9	7631.1	7117.8	6757.2	6594.8	6635.4
10°	11200.7	10121.5	8982.6	7772.0	6711.8	5981.2	5455.9	5181.3	5078.7	5100.1
12.5°	11145.8	9727.5	8087.2	6494.6	5367.6	4885.2	4734.8	4737.2	4756.3	4770.6
15°	11136.3	9252.4	7086.7	5377.1	4641.7	4610.7	4773.0	4875.7	4930.6	4947.3
17.5°	11121.9	8684.1	6067.2	4615.4	4465.0	4675.1	4825.6	4892.4	4935.4	4937.8
20°	11064.6	7963.0	5126.4	4252.5	4426.8	4608.3	4701.4	4753.9	4789.7	4801.7
22.5°	10887.9	7160.7	4393.4	4090.1	4274.0	4419.6	4529.5	4589.2	4610.7	4625.0
25°	10570.4	6263.0	3887.2	3934.9	4061.5	4245.3	4333.7	4345.6	4338.5	4360.0
27.5°	10154.9	5300.7	3572.0	3724.8	3887.2	4044.8	4092.5	4085.4	4071.0	4094.9
30°	9653.5	4436.4	3371.4	3488.4	3710.5	3853.8	3896.7	3880.0	3851.4	3877.6
32.5°	9123.4	3729.6	3206.7	3323.7	3564.8	3705.7	3748.7	3732.0	3710.5	3732.0
35°	8629.2	3235.3	3053.9	3213.9	3450.2	3588.7	3643.6	3646.0	3646.0	3672.3
37.5°	8175.5	2946.4	2927.3	3144.6	3371.4	3495.6	3574.4	3579.2	3476.5	3483.7
40°	7755.3	2824.7	2870.0	3099.2	3295.0	3414.4	3419.2	3151.8	2963.1	2958.4
42.5°	7411.4	2800.8	2886.7	3094.5	3240.1	3244.9	2908.2	2700.5	2648.0	2650.4
45°	7089.1	2793.6	2924.9	3094.5	3158.9	2803.2	2576.3	2521.4	2526.2	2545.3
47.5°	6728.6	2765.0	2932.1	3051.5	2924.9	2492.8	2425.9	2402.0	2392.5	2397.3
50°	6334.6	2662.3	2841.4	2965.5	2523.8	2359.1	2275.5	2268.3	2280.3	2287.4
52.5°	5919.1	2495.2	2686.2	2810.3	2340.0	2242.1	2148.9	2165.6	2218.2	2234.9
55°	5646.9	2299.4	2480.8	2499.9	2211.0	2132.2	2053.4	2091.6	2189.5	2220.6
57.5°	5575.3	2091.6	2246.8	2225.3	2046.3	2036.7	1989.0	2022.4	2146.5	2191.9
60°	5553.8	1905.4	2017.6	2000.9	1886.3	1931.7	1919.7	1936.4	1979.4	1993.7
62.5°	5386.7	1757.4	1812.3	1788.4	1743.0	1821.8	1850.5	1814.7	1848.1	1864.8
65°	4961.7	1638.0	1611.7	1595.0	1614.1	1685.7	1743.0	1671.4	1702.4	1750.2
67.5°	4259.7	1475.6	1404.0	1423.1	1482.8	1521.0	1595.0	1513.8	1540.1	1621.3
70°	3445.5	1270.3	1205.8	1260.7	1318.0	1396.8	1408.7	1353.8	1415.9	1506.6
72.5°	2437.8	1062.5	1017.2	1129.4	1148.5	1251.2	1224.9	1198.6	1284.6	1315.6
75°	1690.5	857.2	830.9	916.9	986.1	1074.5	1055.4	1086.4	1267.9	1282.2
77.5°	1069.7	666.2	649.5	704.4	799.9	897.8	928.8	1282.2	2165.6	2251.6
80°	620.8	496.6	477.5	520.5	604.1	694.8	895.4	1573.5	1427.8	1411.1
82.5°	346.2	341.4	317.6	329.5	403.5	501.4	1265.5	1107.9	900.2	928.8
85°	162.4	200.6	171.9	164.8	226.8	587.4	845.2	632.7	420.2	410.7
87.5°	43.0	38.2	38.2	43.0	95.5	506.2	336.7	269.8	160.0	155.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)