

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: P949176

Luminaire Tested: **GALN-SB4A-730-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949176
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-730-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17943 lumens
Efficiency: N/A
Efficacy: 157.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 114
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



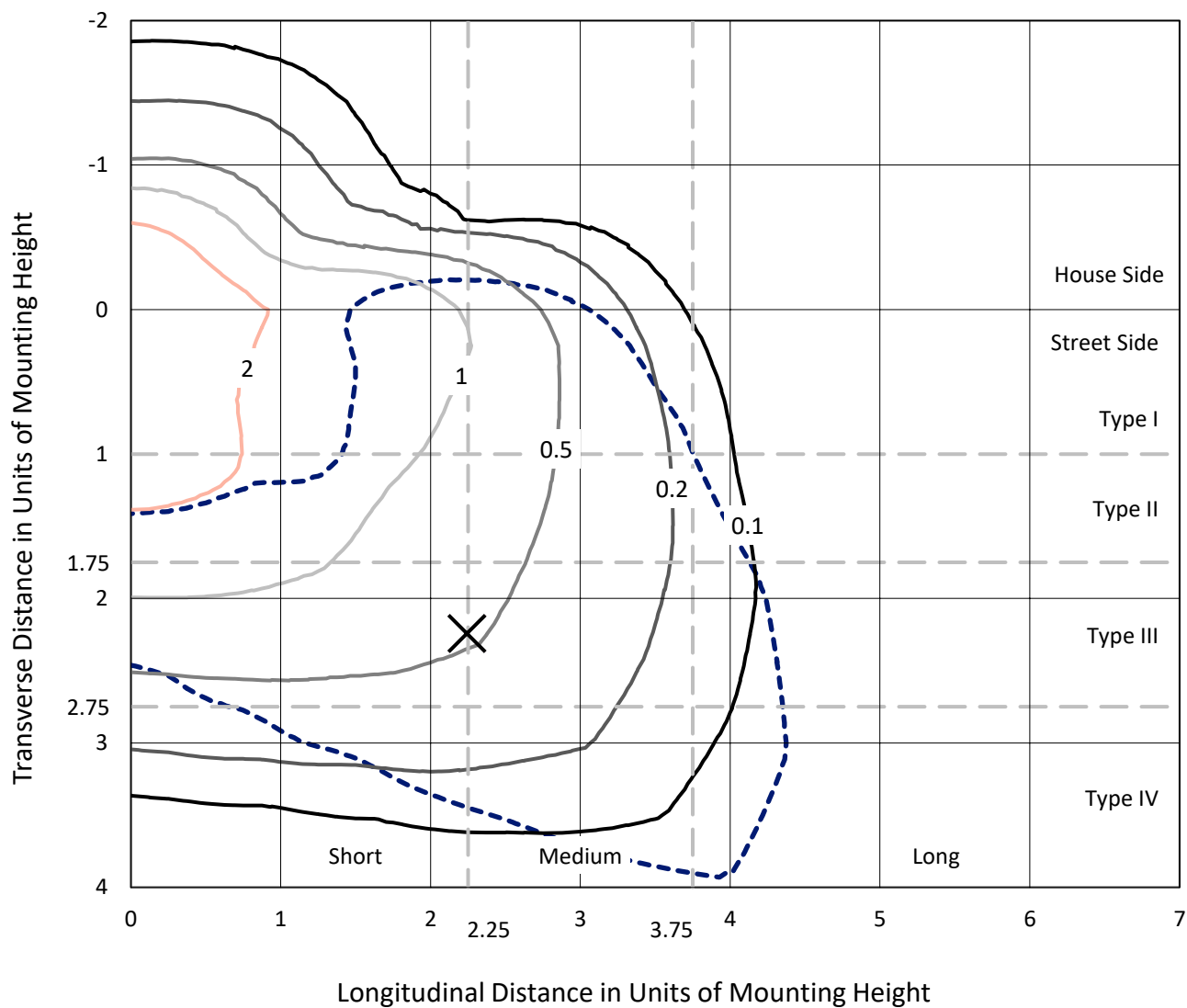
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

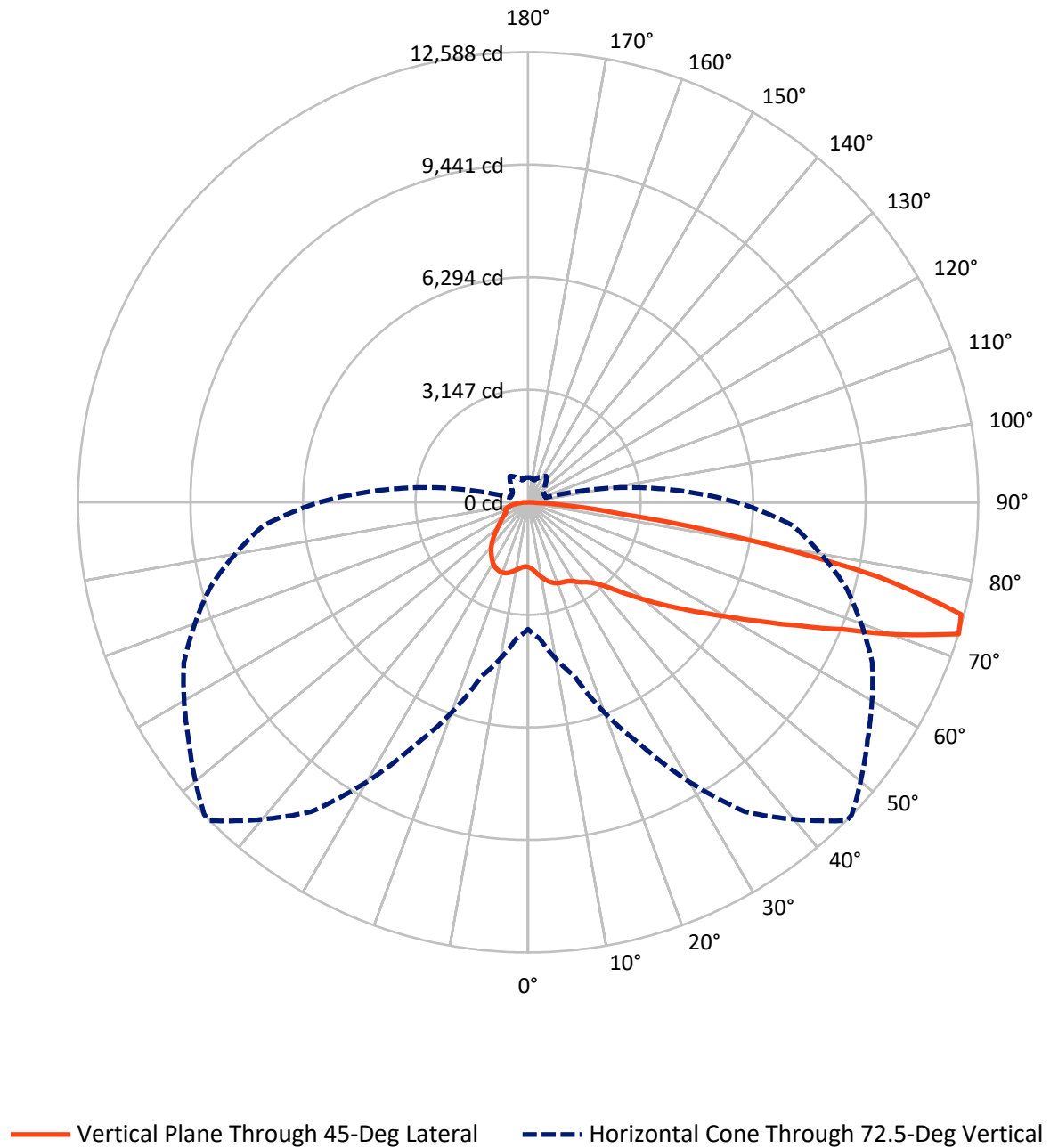


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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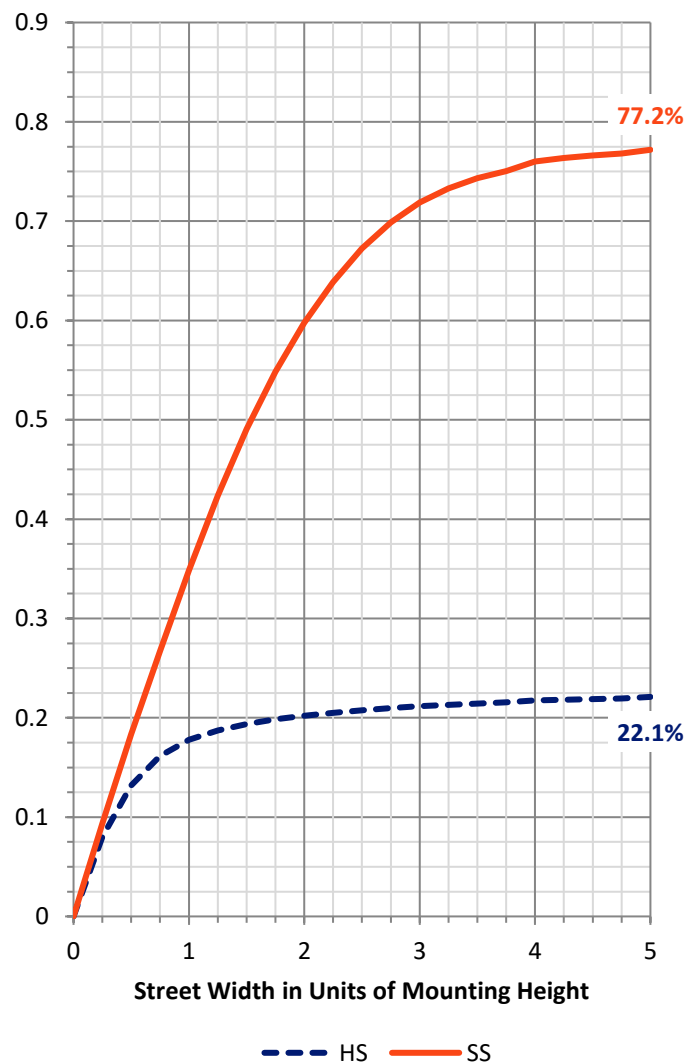
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4056.3	0.0	4056.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	13886.7	0.0	13886.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	17943.0	0.0	17943.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.2	1.0
10°-20°	614.3	3.4
20°-30°	1068.5	6.0
30°-40°	1531.8	8.5
40°-50°	2156.9	12.0
50°-60°	3303.7	18.4
60°-70°	4785.9	26.7
70°-80°	3821.8	21.3
80°-90°	476.0	2.7
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°	17943.0	100.0
0°-180°	17943.0	100.0

Coefficient of Utilization



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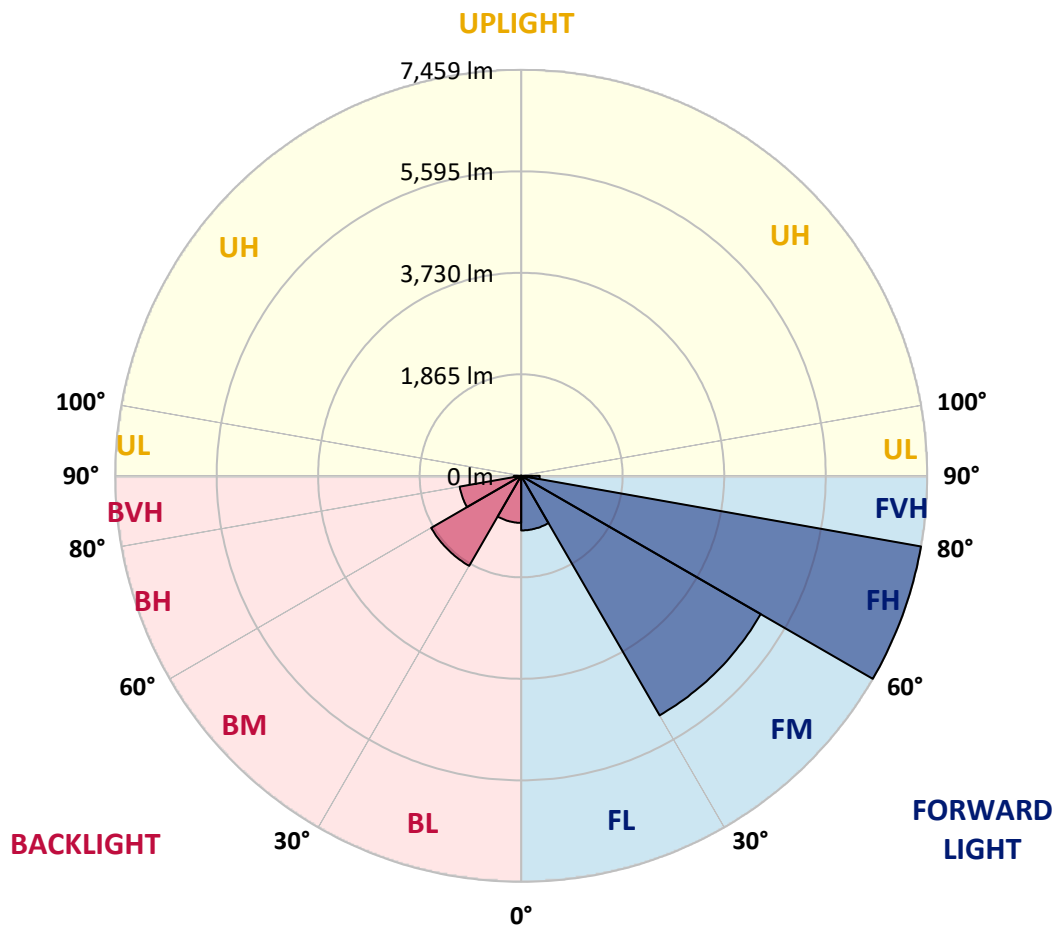
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1003.4	5.6			
FM	(30°-60°)	5082.4	28.3			
FH	(60°-80°)	7459.4	41.6			G3/7500
FVH	(80°-90°)	341.5	1.9			G3/500
BL	(0°-30°)	863.6	4.8	B2/1000		
BM	(30°-60°)	1909.9	10.6	B2/2500		
BH	(60°-80°)	1148.2	6.4	B3/2500		G3/2500
BVH	(80°-90°)	134.5	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1
2.5°	1881.0	1893.3	1881.9	1871.5	1866.8	1854.5	1853.6	1846.0	1841.3	1828.1	1824.3
5°	2012.4	2028.4	2009.5	1988.7	1969.8	1939.6	1935.8	1914.1	1889.5	1861.1	1845.1
7.5°	2160.8	2175.0	2153.2	2122.0	2088.9	2038.8	2037.9	1998.2	1959.4	1911.2	1883.8
10°	2290.3	2309.2	2279.9	2237.3	2195.7	2139.0	2132.4	2087.0	2037.9	1975.5	1933.9
12.5°	2404.6	2417.9	2389.5	2337.5	2289.3	2232.6	2224.1	2174.0	2119.2	2048.3	1995.4
15°	2495.4	2512.4	2474.6	2418.8	2367.8	2312.0	2304.5	2259.1	2204.3	2129.6	2061.5
17.5°	2554.9	2569.1	2530.4	2468.0	2418.8	2372.5	2366.8	2329.0	2280.8	2205.2	2132.4
20°	2577.6	2592.7	2552.1	2488.8	2443.4	2407.5	2404.6	2377.2	2344.1	2275.1	2201.4
22.5°	2600.3	2614.5	2561.6	2495.4	2455.7	2433.0	2432.1	2414.1	2400.9	2344.1	2272.3
25°	2692.0	2695.8	2624.9	2529.4	2472.7	2452.9	2451.9	2451.0	2456.6	2412.2	2348.9
27.5°	2771.4	2770.4	2710.0	2620.2	2532.2	2490.7	2489.7	2499.2	2517.1	2480.3	2428.3
30°	2887.7	2877.3	2805.4	2711.8	2631.5	2567.2	2561.6	2553.0	2567.2	2537.9	2507.7
32.5°	3134.4	3101.3	2985.0	2818.7	2713.7	2664.6	2657.0	2604.1	2609.8	2591.8	2576.7
35°	3487.9	3444.4	3289.4	3020.9	2815.8	2745.9	2742.1	2675.0	2663.6	2647.6	2653.2
37.5°	3908.5	3854.6	3674.1	3313.9	2991.6	2840.4	2834.7	2774.2	2727.9	2710.9	2743.0
40°	4331.0	4262.9	4113.6	3671.2	3250.6	2998.2	2980.3	2888.6	2835.7	2807.3	2875.4
42.5°	4741.2	4684.5	4556.9	4072.0	3570.1	3228.9	3189.2	3032.3	2992.6	2966.1	3089.0
45°	5104.2	5053.2	4959.6	4500.2	3944.4	3542.7	3503.9	3247.8	3235.5	3235.5	3413.2
47.5°	5399.1	5387.8	5288.5	4936.9	4385.8	3900.0	3832.9	3547.4	3580.5	3631.5	3873.5
50°	5726.2	5695.0	5589.1	5367.0	4904.8	4309.3	4254.4	3915.1	4038.9	4178.8	4539.0
52.5°	6026.7	6043.7	5925.6	5815.0	5490.8	4765.8	4669.4	4349.0	4616.5	4848.0	5318.8
55°	6335.8	6336.8	6303.7	6288.6	6105.2	5270.6	5164.7	4870.7	5296.1	5583.4	6228.1
57.5°	6626.0	6627.9	6677.0	6810.3	6817.9	5852.8	5732.8	5511.6	6051.3	6344.3	7165.7
60°	6885.0	6898.2	7032.4	7344.4	7444.6	6520.1	6406.7	6268.7	6832.1	7127.0	8151.6
62.5°	6972.0	7020.2	7318.9	7762.2	8063.7	7338.7	7227.2	7144.9	7652.5	7926.6	8975.8
65°	6824.5	6935.1	7512.6	8107.2	8700.8	8311.3	8200.7	8110.9	8505.1	8763.1	9652.6
67.5°	6462.5	6605.2	7501.3	8469.2	9474.0	9481.5	9378.5	9167.7	9419.1	9518.4	9872.8
70°	5508.8	5722.4	6840.6	8604.4	10361.5	11081.8	10982.5	10440.0	10331.3	9851.1	9252.8
72.5°	3549.3	3836.7	5037.1	7491.8	10559.1	12587.5	12581.8	11588.4	10619.6	9204.6	7420.9
75°	1295.0	1470.8	2340.4	4702.5	8863.3	12511.0	12547.8	11391.8	9694.2	7110.0	4623.1
77.5°	471.7	516.1	763.7	1807.3	5451.1	10038.3	10114.8	9107.2	6900.1	3568.2	1831.8
80°	247.6	272.2	391.3	701.4	2335.6	5961.5	6081.6	5412.3	3243.1	1074.7	549.2
82.5°	137.1	148.4	219.3	380.9	1052.0	2549.3	2621.1	2138.1	1140.9	455.6	226.9
85°	73.7	78.5	103.0	207.9	514.2	883.8	903.6	639.0	454.7	267.5	109.6
87.5°	21.7	26.5	34.0	66.2	201.3	198.5	203.2	126.7	179.6	135.2	35.9
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°	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1
2.5°	1818.6	1815.8	1805.4	1800.6	1795.0	1794.0	1798.8	1799.7	1800.6	1801.6	1805.4
5°	1835.6	1826.2	1816.7	1811.0	1812.9	1813.9	1823.3	1829.9	1834.7	1838.5	1840.3
7.5°	1868.7	1861.1	1845.1	1844.1	1847.0	1855.5	1867.8	1882.9	1891.4	1898.0	1899.9
10°	1917.9	1903.7	1884.8	1887.6	1893.3	1905.6	1931.1	1943.4	1957.6	1969.8	1967.0
12.5°	1968.0	1955.7	1933.9	1935.8	1945.3	1967.0	1991.6	2006.7	2016.2	2025.6	2029.4
15°	2033.2	2011.4	1987.8	1987.8	2004.8	2028.4	2039.8	2052.1	2057.7	2068.1	2071.9
17.5°	2100.3	2071.9	2040.7	2038.8	2059.6	2071.0	2077.6	2079.5	2081.4	2092.7	2096.5
20°	2167.4	2136.2	2091.8	2088.0	2092.7	2090.8	2089.9	2088.0	2090.8	2105.0	2110.7
22.5°	2233.6	2197.6	2136.2	2119.2	2106.0	2088.0	2087.0	2086.1	2088.0	2102.2	2111.6
25°	2311.1	2267.6	2185.4	2134.3	2089.9	2065.3	2068.1	2069.1	2071.0	2082.3	2097.4
27.5°	2395.2	2347.0	2230.7	2129.6	2049.2	2032.2	2027.5	2030.3	2037.0	2054.9	2072.9
30°	2479.3	2422.6	2272.3	2110.7	1998.2	1974.6	1959.4	1966.1	1986.9	2004.8	2024.7
32.5°	2555.9	2499.2	2305.4	2069.1	1933.0	1896.1	1876.3	1884.8	1905.6	1912.2	1935.8
35°	2645.7	2581.4	2319.6	2002.9	1862.1	1805.4	1778.9	1766.6	1777.0	1770.4	1791.2
37.5°	2745.9	2678.8	2317.7	1916.0	1778.9	1713.7	1676.8	1630.5	1608.8	1586.1	1600.3
40°	2894.3	2797.9	2295.0	1811.0	1675.9	1616.3	1550.2	1471.7	1422.6	1378.1	1381.0
42.5°	3096.5	2963.3	2253.4	1695.7	1559.6	1503.8	1414.1	1322.4	1244.9	1171.1	1164.5
45°	3398.1	3179.7	2201.4	1572.8	1433.9	1379.1	1281.7	1178.7	1090.8	996.3	984.9
47.5°	3832.9	3470.9	2152.3	1433.0	1301.6	1251.5	1163.6	1068.1	964.1	872.4	862.0
50°	4430.3	3888.6	2106.9	1296.8	1171.1	1133.3	1063.4	966.0	861.1	787.4	782.6
52.5°	5190.2	4456.7	2088.0	1165.5	1049.2	1035.0	979.2	888.5	789.3	726.9	722.1
55°	6062.7	5136.3	2088.0	1039.7	942.4	947.1	908.4	824.2	738.2	682.5	676.8
57.5°	6953.1	5824.5	2050.2	923.5	851.6	871.5	846.9	773.2	695.7	638.0	628.6
60°	7773.5	6401.0	1897.1	817.6	771.3	802.5	786.4	723.1	628.6	580.4	572.8
62.5°	8404.0	6726.2	1602.2	733.5	705.1	741.1	732.5	656.9	616.3	596.4	589.8
65°	8719.7	6673.3	1225.0	658.8	649.4	705.1	687.2	684.3	652.2	629.5	622.0
67.5°	8525.9	6217.7	888.5	604.0	617.2	672.1	741.1	752.4	692.8	648.4	640.9
70°	7676.1	5393.4	661.7	552.0	576.6	673.0	845.0	787.4	679.6	627.6	619.1
72.5°	5839.6	4021.9	513.3	497.2	523.7	677.7	891.3	771.3	641.8	693.8	688.1
75°	3339.5	2208.0	412.1	430.1	457.5	633.3	867.7	729.7	612.5	637.1	637.1
77.5°	1273.2	848.8	340.3	363.9	367.7	553.0	829.9	726.9	583.2	569.0	518.9
80°	441.4	331.8	281.7	289.2	284.5	491.5	795.9	632.4	477.3	427.2	413.1
82.5°	180.5	165.4	223.1	213.6	202.3	381.9	642.8	517.0	390.4	345.0	341.2
85°	78.5	104.9	147.5	129.5	117.2	264.7	515.1	437.6	329.9	284.5	283.6
87.5°	16.1	39.7	62.4	58.6	60.5	176.8	365.8	311.0	233.5	174.9	137.1
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)