

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: P947349

Luminaire Tested: **GALN-SB2D-722-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947349
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-SB2D-722-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16778 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 147.6
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



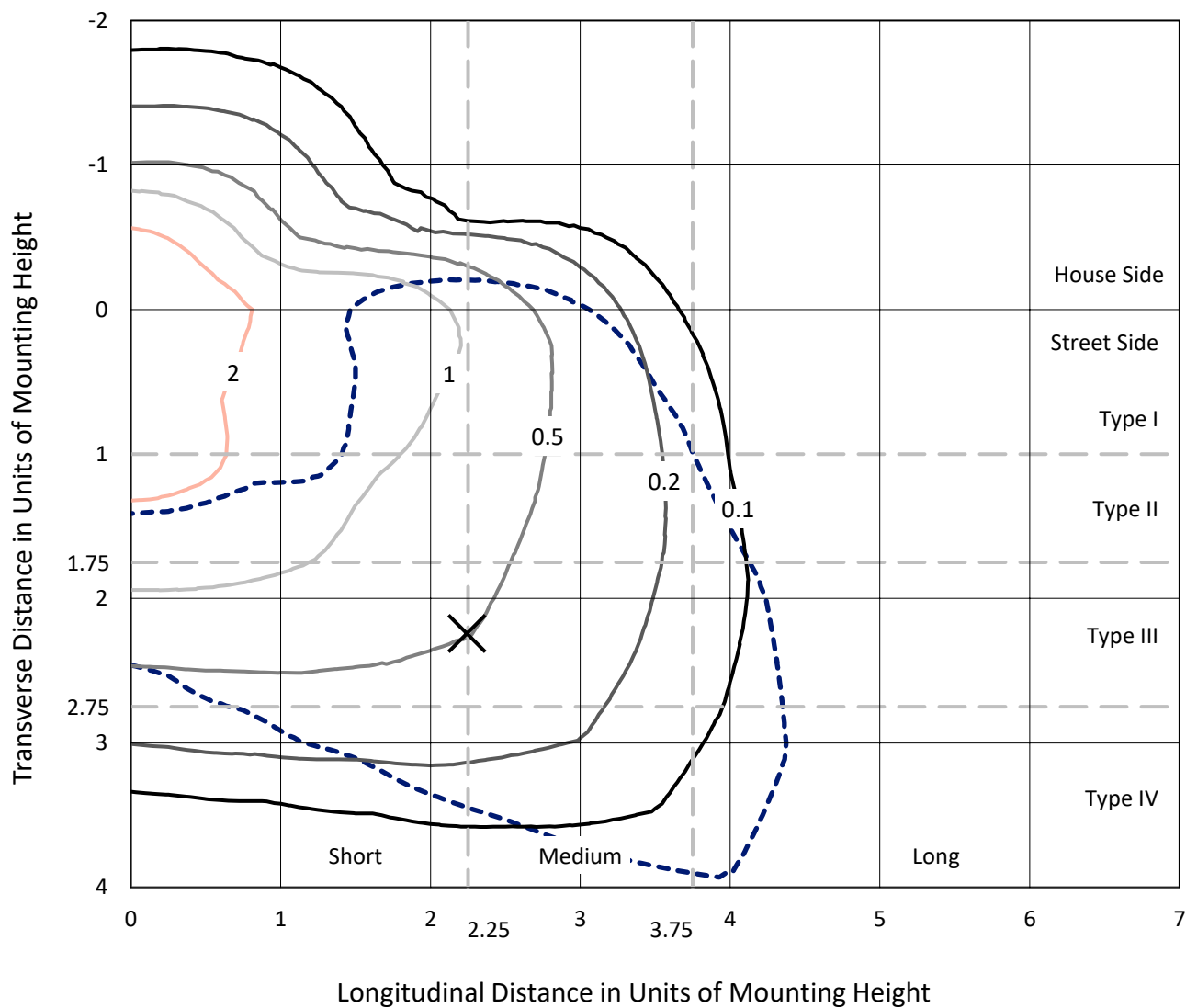
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

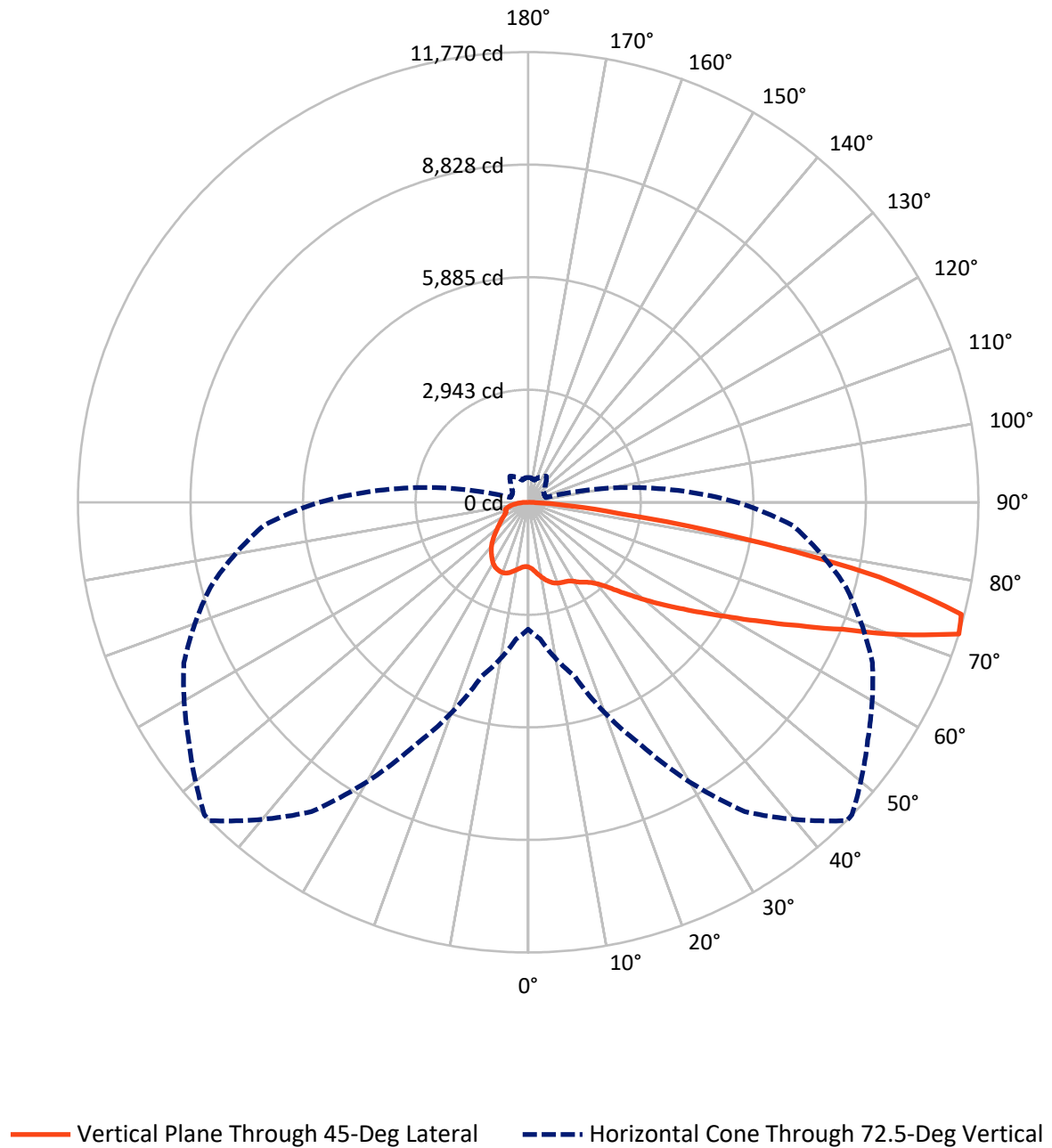


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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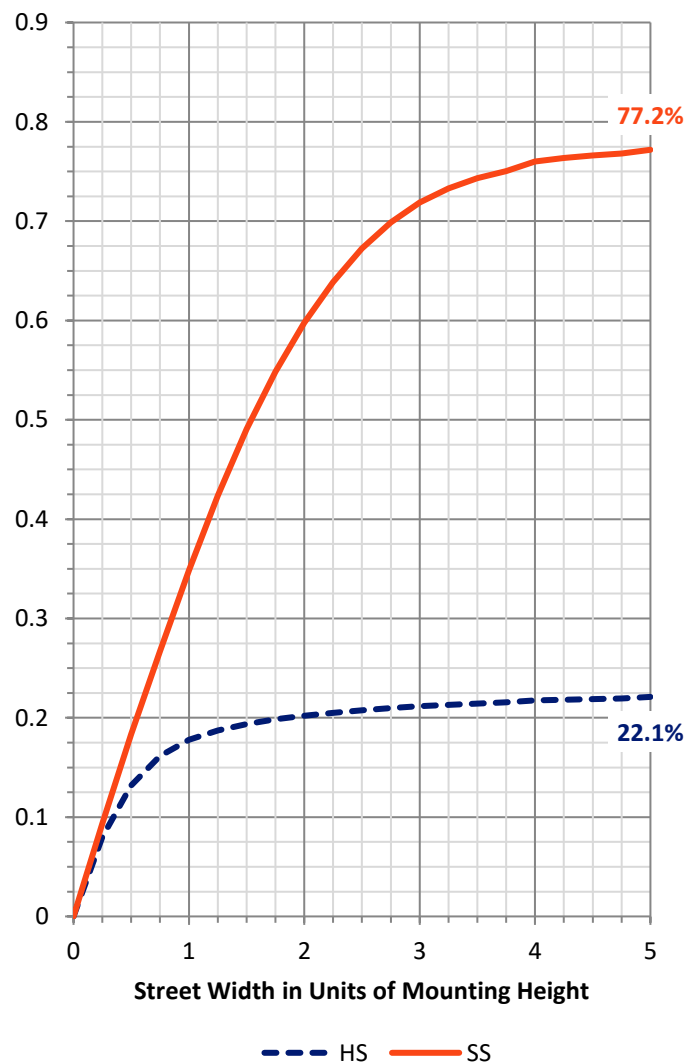
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3792.9	0.0	3792.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	12985.1	0.0	12985.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	16778.0	0.0	16778.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.3	1.0
10°-20°	574.4	3.4
20°-30°	999.2	6.0
30°-40°	1432.3	8.5
40°-50°	2016.8	12.0
50°-60°	3089.2	18.4
60°-70°	4475.1	26.7
70°-80°	3573.7	21.3
80°-90°	445.1	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°	16778.0	100.0
0°-180°	16778.0	100.0

Coefficient of Utilization



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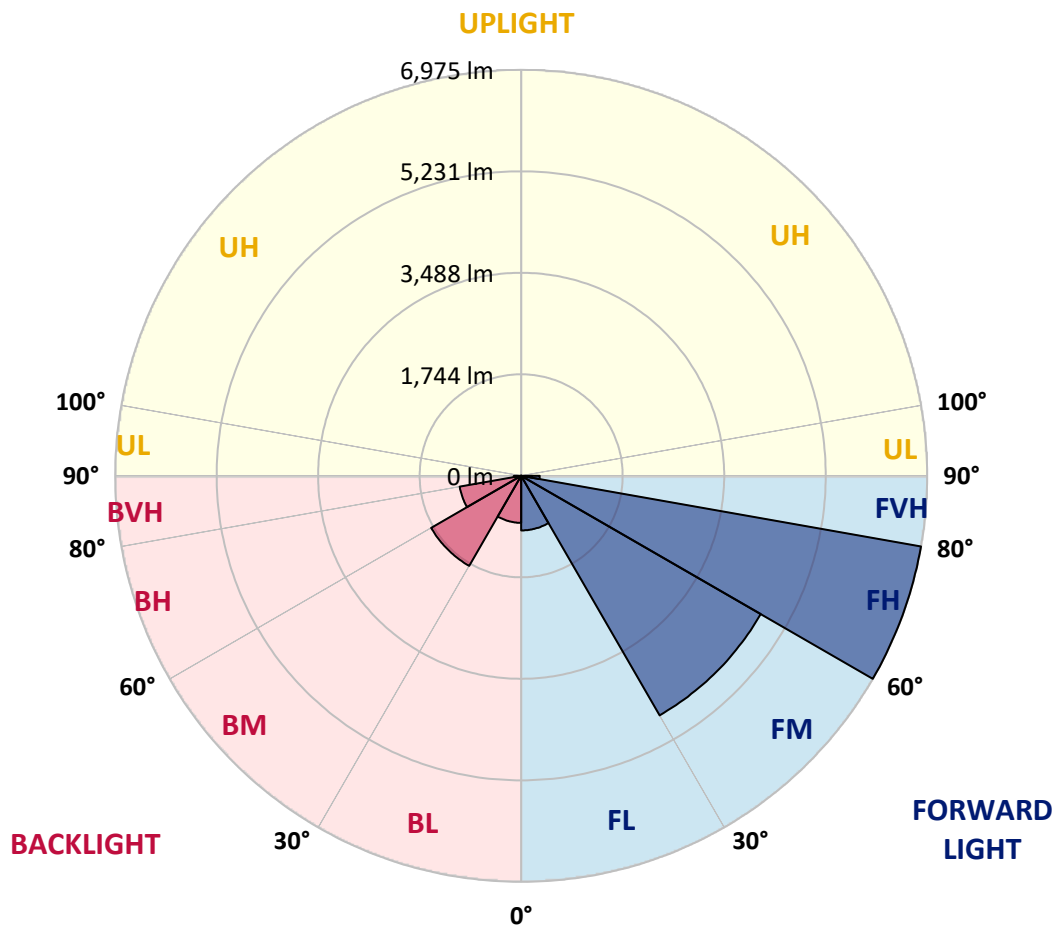
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	938.3	5.6			
FM	(30°-60°)	4752.4	28.3			
FH	(60°-80°)	6975.1	41.6			G3/7500
FVH	(80°-90°)	319.3	1.9			G3/500
BL	(0°-30°)	807.5	4.8	B2/1000		
BM	(30°-60°)	1785.9	10.6	B2/2500		
BH	(60°-80°)	1073.7	6.4	B3/2500		G3/2500
BVH	(80°-90°)	125.8	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°	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6
2.5°	1758.9	1770.4	1759.7	1750.0	1745.6	1734.1	1733.2	1726.2	1721.7	1709.4	1705.8
5°	1881.7	1896.7	1879.1	1859.6	1841.9	1813.7	1810.1	1789.8	1766.8	1740.3	1725.3
7.5°	2020.5	2033.7	2013.4	1984.2	1953.3	1906.5	1905.6	1868.5	1832.2	1787.1	1761.5
10°	2141.6	2159.2	2131.8	2092.1	2053.2	2000.2	1994.0	1951.5	1905.6	1847.2	1808.4
12.5°	2248.5	2260.9	2234.4	2185.8	2140.7	2087.7	2079.7	2032.9	1981.6	1915.3	1865.8
15°	2333.4	2349.3	2313.9	2261.8	2214.0	2161.9	2154.8	2112.4	2061.1	1991.3	1927.7
17.5°	2389.0	2402.3	2366.1	2307.7	2261.8	2218.5	2213.2	2177.8	2132.7	2062.0	1994.0
20°	2410.3	2424.4	2386.4	2327.2	2284.8	2251.2	2248.5	2222.9	2191.9	2127.4	2058.5
22.5°	2431.5	2444.7	2395.2	2333.4	2296.2	2275.0	2274.1	2257.4	2245.0	2191.9	2124.8
25°	2517.2	2520.7	2454.5	2365.2	2312.2	2293.6	2292.7	2291.8	2297.1	2255.6	2196.4
27.5°	2591.4	2590.6	2534.0	2450.0	2367.8	2328.9	2328.1	2336.9	2353.7	2319.2	2270.6
30°	2700.2	2690.4	2623.3	2535.8	2460.6	2400.5	2395.2	2387.3	2400.5	2373.1	2344.9
32.5°	2930.8	2899.9	2791.2	2635.6	2537.5	2491.6	2484.5	2435.0	2440.3	2423.5	2409.4
35°	3261.4	3220.8	3075.8	2824.8	2633.0	2567.6	2564.1	2501.3	2490.7	2475.7	2481.0
37.5°	3654.7	3604.3	3435.5	3098.8	2797.4	2656.0	2650.7	2594.1	2550.8	2534.9	2564.9
40°	4049.8	3986.2	3846.5	3432.9	3039.6	2803.6	2786.8	2701.0	2651.6	2625.0	2688.7
42.5°	4433.4	4380.4	4261.0	3807.6	3338.3	3019.2	2982.1	2835.4	2798.3	2773.5	2888.4
45°	4772.8	4725.1	4637.6	4208.0	3688.3	3312.7	3276.4	3036.9	3025.4	3025.4	3191.6
47.5°	5048.6	5037.9	4945.1	4616.4	4101.1	3646.8	3584.0	3317.1	3348.0	3395.8	3622.0
50°	5354.4	5325.2	5226.2	5018.5	4586.3	4029.5	3978.2	3660.9	3776.7	3907.5	4244.2
52.5°	5635.4	5651.3	5540.9	5437.4	5134.3	4456.4	4366.2	4066.6	4316.7	4533.3	4973.4
55°	5924.4	5925.3	5894.4	5880.3	5708.8	4928.4	4829.4	4554.5	4952.2	5220.9	5823.7
57.5°	6195.8	6197.6	6243.5	6368.1	6375.2	5472.8	5360.6	5153.7	5658.4	5932.4	6700.5
60°	6438.0	6450.3	6575.8	6867.5	6961.2	6096.8	5990.7	5861.7	6388.5	6664.2	7622.3
62.5°	6519.3	6564.4	6843.7	7258.2	7540.1	6862.2	6757.9	6681.0	7155.7	7412.0	8393.0
65°	6381.4	6484.8	7024.8	7580.8	8135.8	7771.7	7668.3	7584.3	7952.9	8194.2	9025.9
67.5°	6042.9	6176.3	7014.2	7919.3	8858.8	8865.9	8769.6	8572.5	8807.6	8900.4	9231.8
70°	5151.1	5350.8	6396.4	8045.7	9688.8	10362.3	10269.5	9762.1	9660.5	9211.5	8652.0
72.5°	3318.9	3587.5	4710.0	7005.4	9873.5	11770.2	11764.9	10836.0	9930.1	8606.9	6939.1
75°	1210.9	1375.3	2188.4	4397.2	8287.9	11698.6	11733.1	10652.2	9064.8	6648.3	4322.9
77.5°	441.0	482.6	714.2	1689.9	5097.2	9386.5	9458.1	8515.9	6452.1	3336.5	1712.9
80°	231.6	254.5	365.9	655.8	2184.0	5574.4	5686.7	5060.9	3032.5	1004.9	513.5
82.5°	128.2	138.8	205.1	356.2	983.7	2383.7	2450.9	1999.3	1066.8	426.0	212.1
85°	68.9	73.4	96.3	194.4	480.8	826.4	845.0	597.5	425.1	250.1	102.5
87.5°	20.3	24.7	31.8	61.9	188.3	185.6	190.0	118.4	167.9	126.4	33.6
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°	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6	1692.6
2.5°	1700.5	1697.9	1688.2	1683.7	1678.4	1677.5	1682.0	1682.9	1683.7	1684.6	1688.2
5°	1716.4	1707.6	1698.8	1693.5	1695.2	1696.1	1704.9	1711.1	1715.6	1719.1	1720.9
7.5°	1747.4	1740.3	1725.3	1724.4	1727.0	1735.0	1746.5	1760.6	1768.6	1774.8	1776.5
10°	1793.3	1780.1	1762.4	1765.0	1770.4	1781.8	1805.7	1817.2	1830.5	1841.9	1839.3
12.5°	1840.2	1828.7	1808.4	1810.1	1819.0	1839.3	1862.3	1876.4	1885.3	1894.1	1897.6
15°	1901.2	1880.8	1858.7	1858.7	1874.6	1896.7	1907.3	1918.8	1924.1	1933.9	1937.4
17.5°	1963.9	1937.4	1908.2	1906.5	1925.9	1936.5	1942.7	1944.5	1946.2	1956.8	1960.4
20°	2026.7	1997.5	1956.0	1952.4	1956.8	1955.1	1954.2	1952.4	1955.1	1968.3	1973.6
22.5°	2088.5	2055.0	1997.5	1981.6	1969.2	1952.4	1951.5	1950.7	1952.4	1965.7	1974.5
25°	2161.0	2120.4	2043.5	1995.7	1954.2	1931.2	1933.9	1934.7	1936.5	1947.1	1961.3
27.5°	2239.7	2194.6	2085.9	1991.3	1916.2	1900.3	1895.9	1898.5	1904.7	1921.5	1938.3
30°	2318.3	2265.3	2124.8	1973.6	1868.5	1846.4	1832.2	1838.4	1857.9	1874.6	1893.2
32.5°	2389.9	2336.9	2155.7	1934.7	1807.5	1773.0	1754.4	1762.4	1781.8	1788.0	1810.1
35°	2473.9	2413.8	2169.0	1872.9	1741.2	1688.2	1663.4	1651.9	1661.6	1655.5	1674.9
37.5°	2567.6	2504.8	2167.2	1791.6	1663.4	1602.4	1568.0	1524.6	1504.3	1483.1	1496.4
40°	2706.4	2616.2	2146.0	1693.5	1567.1	1511.4	1449.5	1376.2	1330.2	1288.7	1291.3
42.5°	2895.5	2770.9	2107.1	1585.6	1458.4	1406.2	1322.2	1236.5	1164.0	1095.1	1088.9
45°	3177.4	2973.3	2058.5	1470.7	1340.8	1289.5	1198.5	1102.2	1020.0	931.6	921.0
47.5°	3584.0	3245.5	2012.5	1339.9	1217.1	1170.2	1088.0	998.8	901.5	815.8	806.1
50°	4142.6	3636.2	1970.1	1212.6	1095.1	1059.7	994.3	903.3	805.2	736.2	731.8
52.5°	4853.2	4167.4	1952.4	1089.8	981.1	967.8	915.7	830.8	738.0	679.7	675.3
55°	5669.0	4802.8	1952.4	972.2	881.2	885.6	849.4	770.7	690.3	638.1	632.8
57.5°	6501.6	5446.3	1917.1	863.5	796.3	814.9	791.9	723.0	650.5	596.6	587.8
60°	7268.8	5985.4	1773.9	764.5	721.2	750.4	735.4	676.1	587.8	542.7	535.6
62.5°	7858.3	6289.5	1498.1	685.9	659.4	692.9	685.0	614.3	576.3	557.7	551.5
65°	8153.5	6240.0	1145.5	616.0	607.2	659.4	642.6	639.9	609.9	588.6	581.6
67.5°	7972.3	5814.0	830.8	564.8	577.2	628.4	692.9	703.5	647.9	606.3	599.3
70°	7177.7	5043.3	618.7	516.2	539.1	629.3	790.2	736.2	635.5	586.9	578.9
72.5°	5460.4	3760.8	479.9	464.9	489.7	633.7	833.5	721.2	600.1	648.7	643.4
75°	3122.6	2064.7	385.4	402.2	427.8	592.2	811.4	682.3	572.7	595.7	595.7
77.5°	1190.5	793.7	318.2	340.3	343.8	517.1	776.0	679.7	545.3	532.1	485.2
80°	412.8	310.2	263.4	270.5	266.0	459.6	744.2	591.3	446.3	399.5	386.2
82.5°	168.8	154.7	208.6	199.8	189.1	357.1	601.0	483.5	365.0	322.6	319.1
85°	73.4	98.1	137.9	121.1	109.6	247.5	481.7	409.2	308.5	266.0	265.2
87.5°	15.0	37.1	58.3	54.8	56.6	165.3	342.1	290.8	218.3	163.5	128.2
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)