

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: STREETWORKS

Report Number: P836889

Luminaire Tested: **ARCH3-90-722-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836889
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-90-722-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 735mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12470 lumens
Efficiency: N/A
Efficacy: 133.9 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 93.1
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

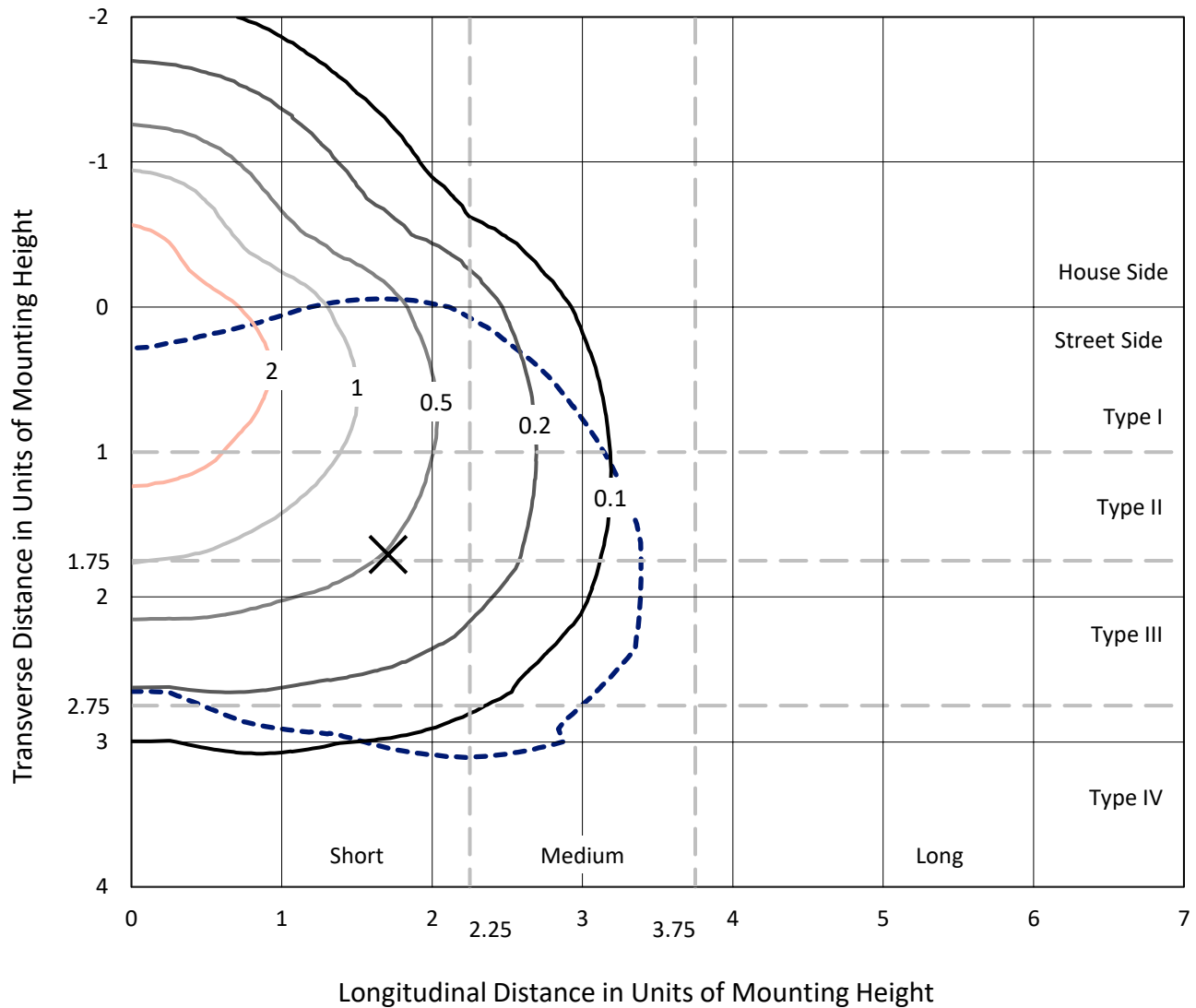


REPORT NUMBER: P836889

CATALOG NUMBER: ARCH3-90-722-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

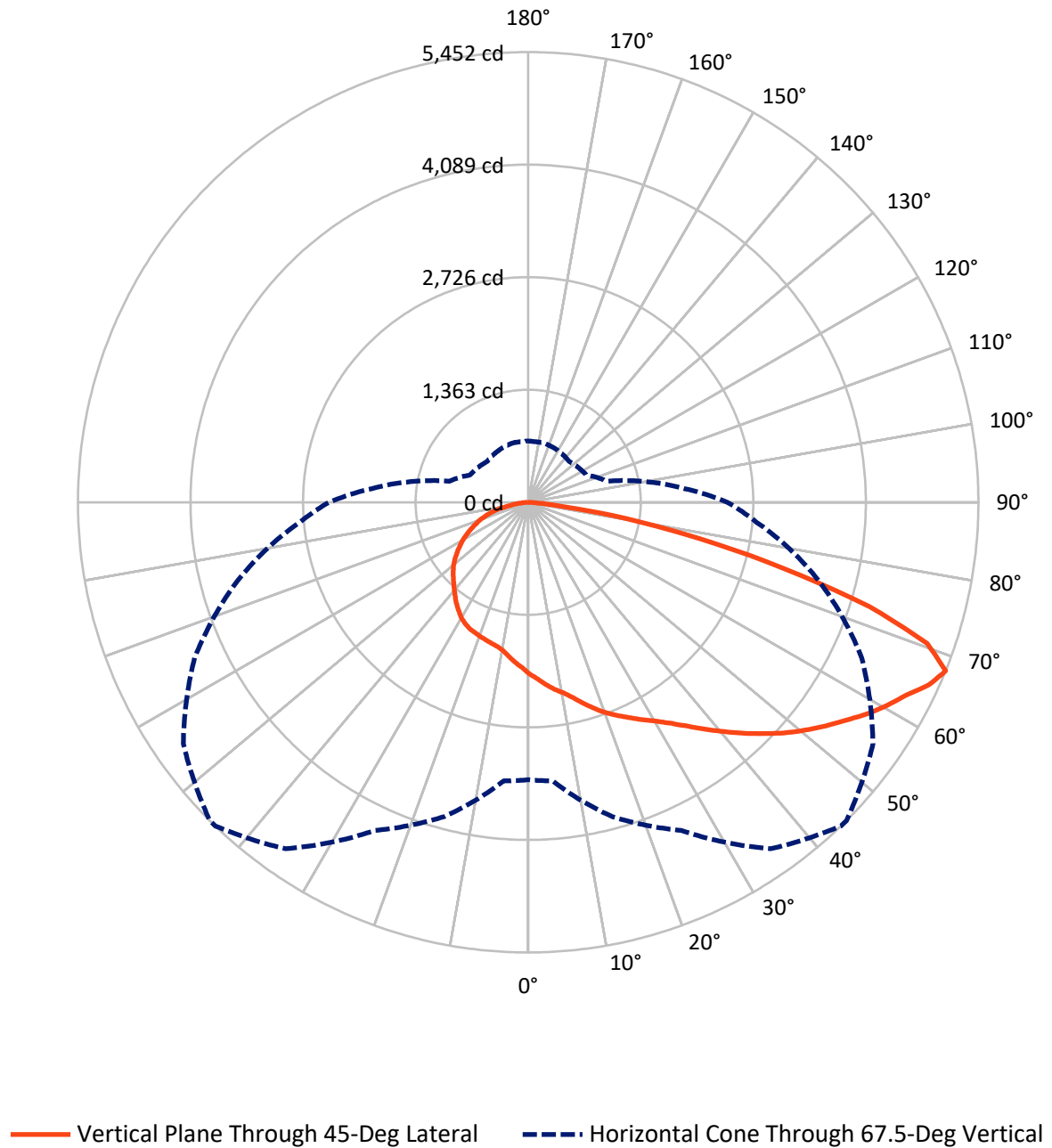


Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
Type IV - Short - N/A

REPORT NUMBER: P836889

CATALOG NUMBER: ARCH3-90-722-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P836889

CATALOG NUMBER: ARCH3-90-722-U-T4W

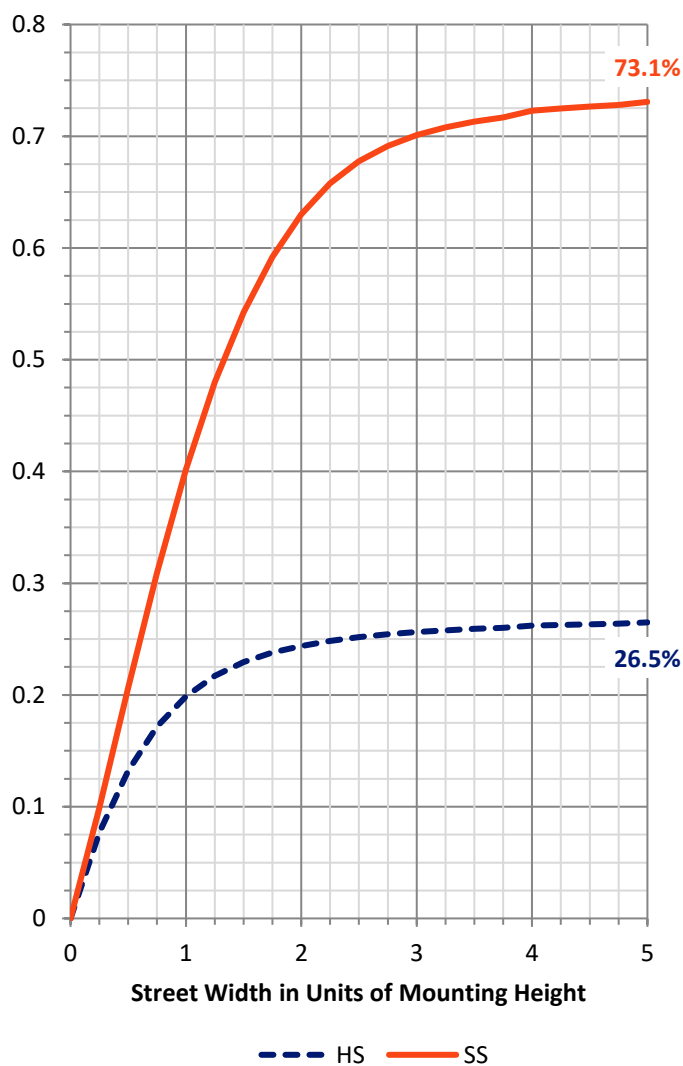
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3331.4	0.0	3331.4
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	9138.6	0.0	9138.6
	% Fixture	73.3	0.0	73.3
Total	Lumens	12470.0	0.0	12470.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.1	1.6
10°-20°	615.1	4.9
20°-30°	1061.8	8.5
30°-40°	1565.8	12.6
40°-50°	2121.3	17.0
50°-60°	2592.7	20.8
60°-70°	2674.0	21.4
70°-80°	1464.6	11.7
80°-90°	175.6	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°	12470.0	100.0
0°-180°	12470.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836889

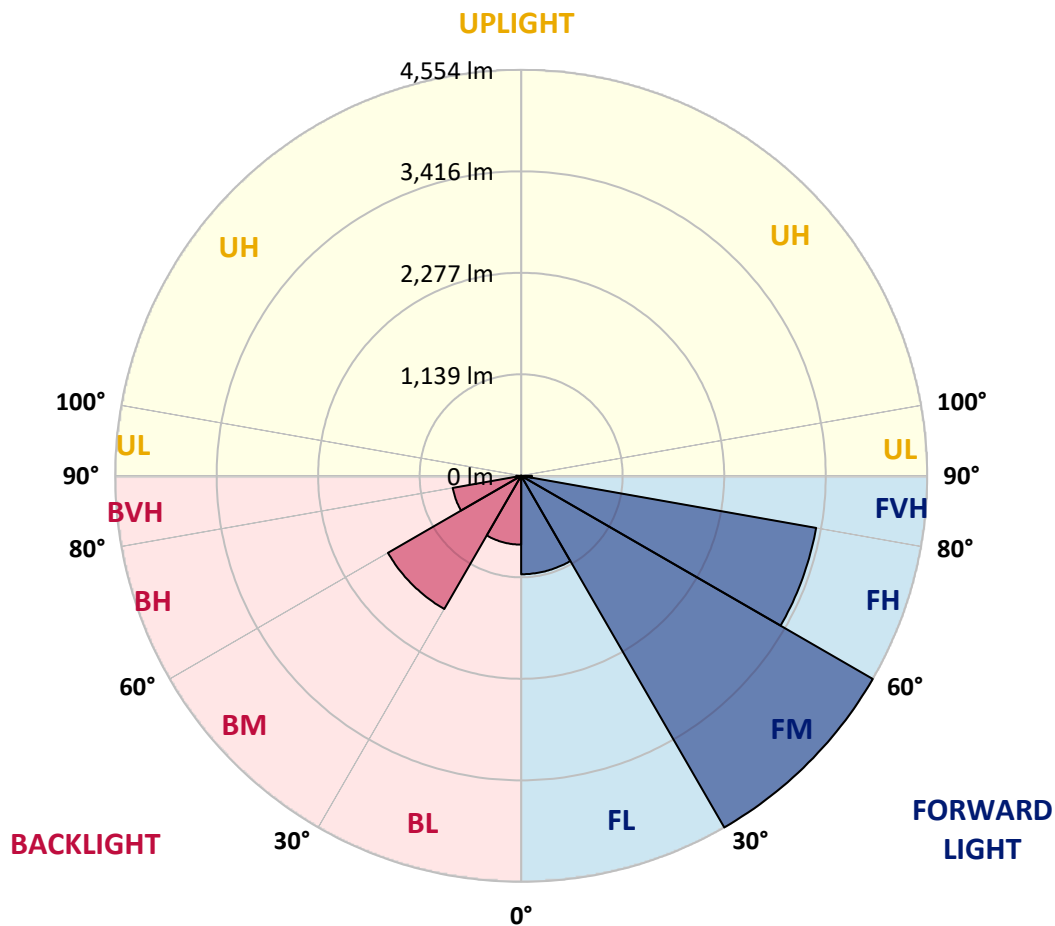
CATALOG NUMBER: ARCH3-90-722-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1103.9	8.9			
FM	(30°-60°)	4554.2	36.5			
FH	(60°-80°)	3359.6	26.9			G2/5000
FVH	(80°-90°)	120.9	1.0			G2/225
BL	(0°-30°)	772.1	6.2	B2/1000		
BM	(30°-60°)	1725.6	13.8	B2/2500		
BH	(60°-80°)	779.1	6.2	B2/1000		G2/1000
BVH	(80°-90°)	54.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short



REPORT NUMBER: P836889

CATALOG NUMBER: ARCH3-90-722-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8
2.5°	2170.8	2168.9	2172.7	2159.5	2142.4	2140.5	2140.5	2129.1	2115.8	2089.2	2068.4
5°	2273.3	2269.5	2271.4	2252.4	2229.7	2218.3	2216.4	2191.7	2161.4	2119.6	2081.7
7.5°	2368.2	2364.4	2362.5	2341.6	2307.5	2288.5	2286.6	2250.5	2214.5	2150.0	2094.9
10°	2457.4	2453.6	2449.8	2421.3	2379.6	2351.1	2347.3	2301.8	2256.2	2176.5	2106.3
12.5°	2571.2	2563.6	2559.8	2525.7	2465.0	2434.6	2428.9	2368.2	2311.3	2214.5	2129.1
15°	2690.8	2685.1	2679.4	2647.1	2578.8	2539.0	2529.5	2453.6	2375.8	2263.8	2163.3
17.5°	2780.0	2774.3	2774.3	2745.8	2683.2	2637.7	2630.1	2539.0	2442.2	2309.4	2189.8
20°	2835.0	2829.3	2835.0	2817.9	2770.5	2732.5	2724.9	2624.4	2508.6	2351.1	2212.6
22.5°	2874.9	2869.2	2878.6	2871.1	2836.9	2814.1	2808.4	2709.8	2576.9	2394.8	2235.4
25°	2945.1	2945.1	2945.1	2931.8	2899.5	2891.9	2891.9	2806.5	2664.2	2451.7	2269.5
27.5°	3085.5	3077.9	3068.4	3030.5	2975.4	2973.5	2984.9	2905.2	2764.8	2525.7	2311.3
30°	3292.3	3288.5	3252.5	3172.8	3079.8	3070.3	3077.9	3011.5	2873.0	2603.5	2358.7
32.5°	3559.9	3546.6	3472.6	3353.0	3220.2	3176.6	3191.7	3121.5	2986.8	2683.2	2404.2
35°	3749.6	3753.4	3700.3	3592.1	3434.6	3318.9	3330.3	3244.9	3110.2	2772.4	2461.2
37.5°	3967.9	3981.1	3901.4	3819.9	3673.7	3476.4	3487.8	3372.0	3233.5	2884.3	2521.9
40°	4269.6	4243.0	4108.3	4011.5	3850.2	3641.5	3651.0	3514.3	3375.8	2990.6	2592.1
42.5°	4522.0	4474.5	4311.3	4188.0	3994.4	3816.1	3825.5	3668.0	3520.0	3108.3	2669.9
45°	4884.4	4753.5	4518.2	4457.4	4142.4	3986.8	3996.3	3831.2	3671.8	3233.5	2753.4
47.5°	5095.0	4886.3	4736.4	4704.1	4305.6	4163.3	4174.7	4003.9	3835.0	3375.8	2840.7
50°	5081.7	4947.0	4903.4	4823.7	4449.9	4328.4	4339.8	4182.3	4000.1	3516.2	2924.2
52.5°	4994.5	5019.1	4996.4	4863.5	4594.1	4487.8	4501.1	4358.8	4169.0	3647.2	3002.0
55°	5129.2	5146.3	5102.6	4928.0	4753.5	4647.2	4662.4	4544.7	4336.0	3762.9	3068.4
57.5°	5290.5	5229.8	5186.1	5041.9	4918.6	4819.9	4837.0	4734.5	4480.2	3855.9	3119.6
60°	5282.9	5155.8	5199.4	5049.5	5030.5	4979.3	4994.5	4890.1	4590.3	3924.2	3140.5
62.5°	4893.9	4825.6	5045.7	4994.5	5121.6	5121.6	5140.6	4985.0	4656.7	3952.7	3129.1
65°	4218.3	4222.1	4609.2	4821.8	5229.8	5317.0	5332.2	5043.8	4618.7	3869.2	3022.9
67.5°	3360.6	3385.3	3941.3	4383.4	5121.6	5449.9	5451.8	5096.9	4455.5	3633.9	2776.2
70°	2459.3	2478.3	3134.8	3671.8	4611.1	5155.8	5125.4	4947.0	4100.7	3224.0	2391.0
72.5°	1662.3	1679.4	2354.9	2819.8	3783.8	4391.0	4324.6	4372.0	3495.4	2649.0	1922.3
75°	1117.7	1138.6	1675.6	2017.1	2783.8	3334.1	3186.1	3311.3	2704.1	2005.8	1402.3
77.5°	704.0	717.3	1064.5	1322.6	1901.4	2269.5	2121.5	2123.4	1557.9	1079.7	753.3
80°	447.8	451.6	645.2	762.8	1100.6	1364.4	1206.9	981.1	702.1	573.1	449.7
82.5°	260.0	254.3	385.2	430.8	523.7	518.0	428.9	406.1	307.4	286.5	229.6
85°	104.4	96.8	168.9	157.5	159.4	168.9	125.2	125.2	100.6	77.8	56.9
87.5°	20.9	20.9	22.8	20.9	20.9	22.8	17.1	17.1	15.2	15.2	15.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P836889

CATALOG NUMBER: ARCH3-90-722-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8	2079.8
2.5°	2064.6	2060.8	2051.3	2026.6	2013.3	2005.8	1994.4	1990.6	1988.7	1990.6	1996.3
5°	2070.3	2057.0	2030.4	1990.6	1964.0	1946.9	1928.0	1920.4	1914.7	1914.7	1920.4
7.5°	2074.1	2053.2	2007.7	1948.8	1910.9	1884.3	1861.5	1852.0	1850.2	1855.8	1857.7
10°	2076.0	2045.6	1981.1	1907.1	1857.7	1823.6	1800.8	1795.1	1800.8	1812.2	1814.1
12.5°	2089.2	2047.5	1965.9	1878.6	1819.8	1785.6	1768.6	1768.6	1783.7	1804.6	1806.5
15°	2112.0	2060.8	1958.3	1855.8	1795.1	1764.8	1759.1	1768.6	1791.3	1823.6	1827.4
17.5°	2129.1	2068.4	1941.2	1825.5	1762.9	1743.9	1753.4	1776.1	1808.4	1852.0	1855.8
20°	2140.5	2068.4	1916.6	1789.4	1730.6	1726.8	1753.4	1789.4	1823.6	1874.8	1880.5
22.5°	2151.9	2064.6	1888.1	1745.8	1694.5	1705.9	1755.3	1800.8	1835.0	1890.0	1899.5
25°	2172.7	2070.3	1859.6	1702.1	1656.6	1688.9	1753.4	1808.4	1844.5	1901.4	1916.6
27.5°	2201.2	2083.6	1838.8	1662.3	1618.6	1662.3	1740.1	1806.5	1844.5	1899.5	1916.6
30°	2231.6	2098.7	1814.1	1618.6	1575.0	1624.3	1711.6	1785.6	1829.3	1880.5	1901.4
32.5°	2263.8	2115.8	1793.2	1571.2	1521.9	1573.1	1669.9	1753.4	1800.8	1848.3	1871.0
35°	2307.5	2146.2	1781.8	1533.3	1474.4	1520.0	1616.7	1711.6	1762.9	1806.5	1833.1
37.5°	2360.6	2184.1	1776.1	1495.3	1423.2	1461.1	1559.8	1660.4	1715.4	1751.5	1776.1
40°	2421.3	2231.6	1774.2	1459.2	1372.0	1400.4	1501.0	1601.6	1654.7	1683.2	1704.0
42.5°	2489.6	2284.7	1770.5	1423.2	1320.7	1343.5	1444.1	1542.7	1588.3	1613.0	1631.9
45°	2561.7	2337.8	1762.9	1379.5	1265.7	1292.3	1385.2	1472.5	1520.0	1540.8	1561.7
47.5°	2633.9	2391.0	1747.7	1330.2	1216.4	1241.0	1322.6	1398.5	1436.5	1455.5	1476.3
50°	2704.1	2438.4	1711.6	1273.3	1165.1	1187.9	1250.5	1301.7	1330.2	1345.4	1366.3
52.5°	2766.7	2470.7	1660.4	1206.9	1113.9	1125.3	1167.0	1210.7	1233.4	1235.3	1254.3
55°	2819.8	2487.7	1586.4	1138.6	1058.9	1060.8	1083.5	1117.7	1127.2	1119.6	1132.9
57.5°	2850.2	2478.3	1504.8	1068.3	1001.9	994.3	1011.4	1028.5	1030.4	1011.4	1024.7
60°	2857.8	2434.6	1398.5	998.1	945.0	924.1	929.8	926.0	922.2	914.6	926.0
62.5°	2819.8	2341.6	1280.9	929.8	884.3	852.0	850.1	848.2	853.9	855.8	857.7
65°	2681.3	2167.0	1140.5	859.6	819.8	776.1	774.2	797.0	804.6	793.2	797.0
67.5°	2413.7	1899.5	986.7	778.0	738.2	700.2	715.4	728.7	742.0	738.2	742.0
70°	2034.2	1559.8	846.3	686.9	649.0	628.1	645.2	656.6	658.5	654.7	658.5
72.5°	1599.7	1218.3	715.4	593.9	559.8	550.3	571.2	580.7	597.7	605.3	607.2
75°	1155.6	899.5	586.4	493.4	464.9	464.9	483.9	501.0	516.1	506.7	501.0
77.5°	645.2	537.0	421.3	339.7	345.4	371.9	379.5	398.5	413.7	411.8	408.0
80°	390.9	335.9	284.6	220.1	218.2	239.1	288.4	320.7	328.3	311.2	309.3
82.5°	203.0	176.5	151.8	123.3	136.6	159.4	167.0	201.1	222.0	214.4	223.9
85°	51.2	49.3	55.0	56.9	70.2	77.8	85.4	100.6	66.4	32.3	32.3
87.5°	15.2	15.2	19.0	19.0	24.7	30.4	28.5	28.5	15.2	1.9	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)