

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: P1210123

Luminaire Tested: **ARCH2-110-750-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1210123
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-110-750-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13914 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 109.5
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



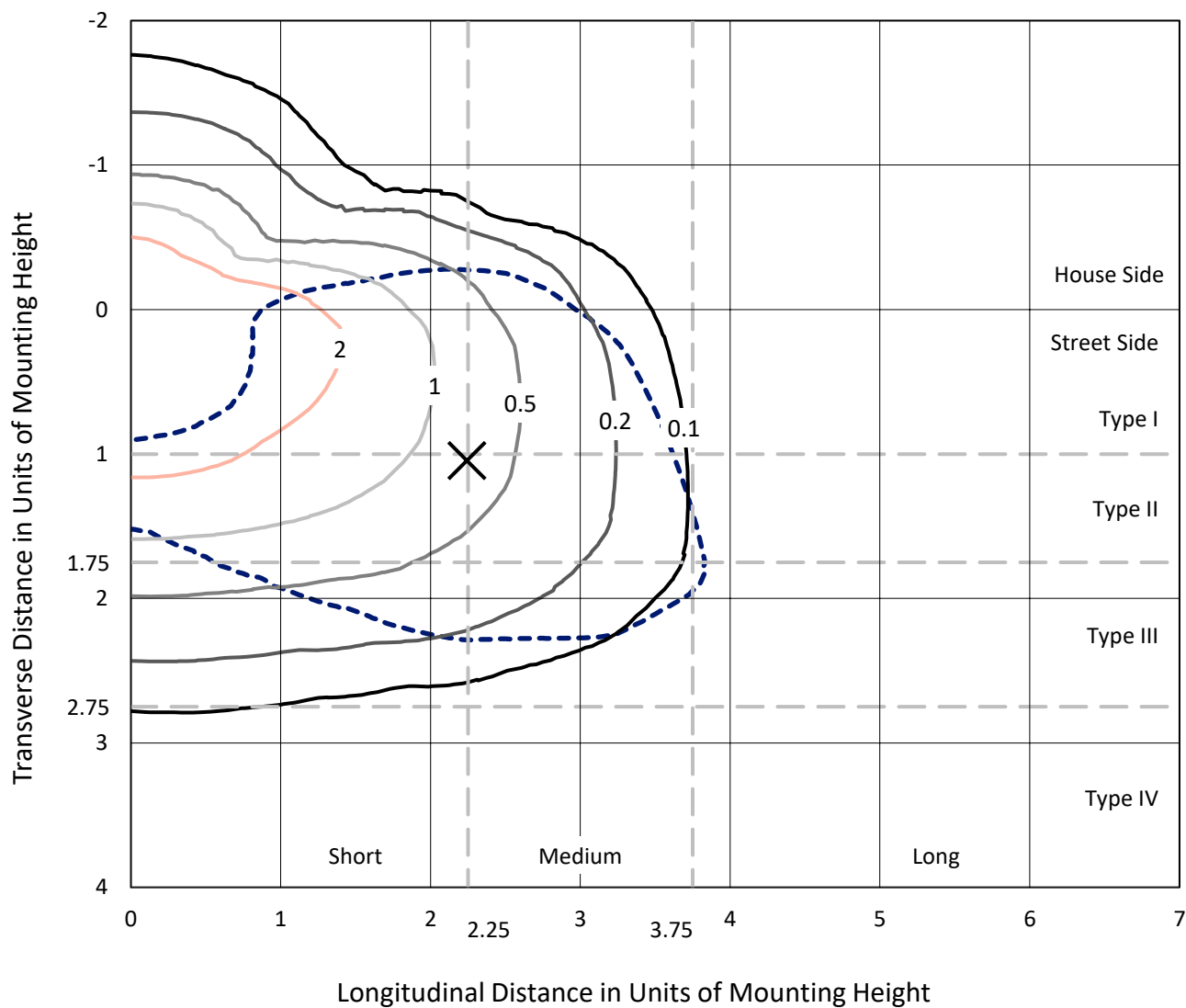
REPORT NUMBER: P1210123

CATALOG NUMBER: ARCH2-110-750-U-T3RE

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

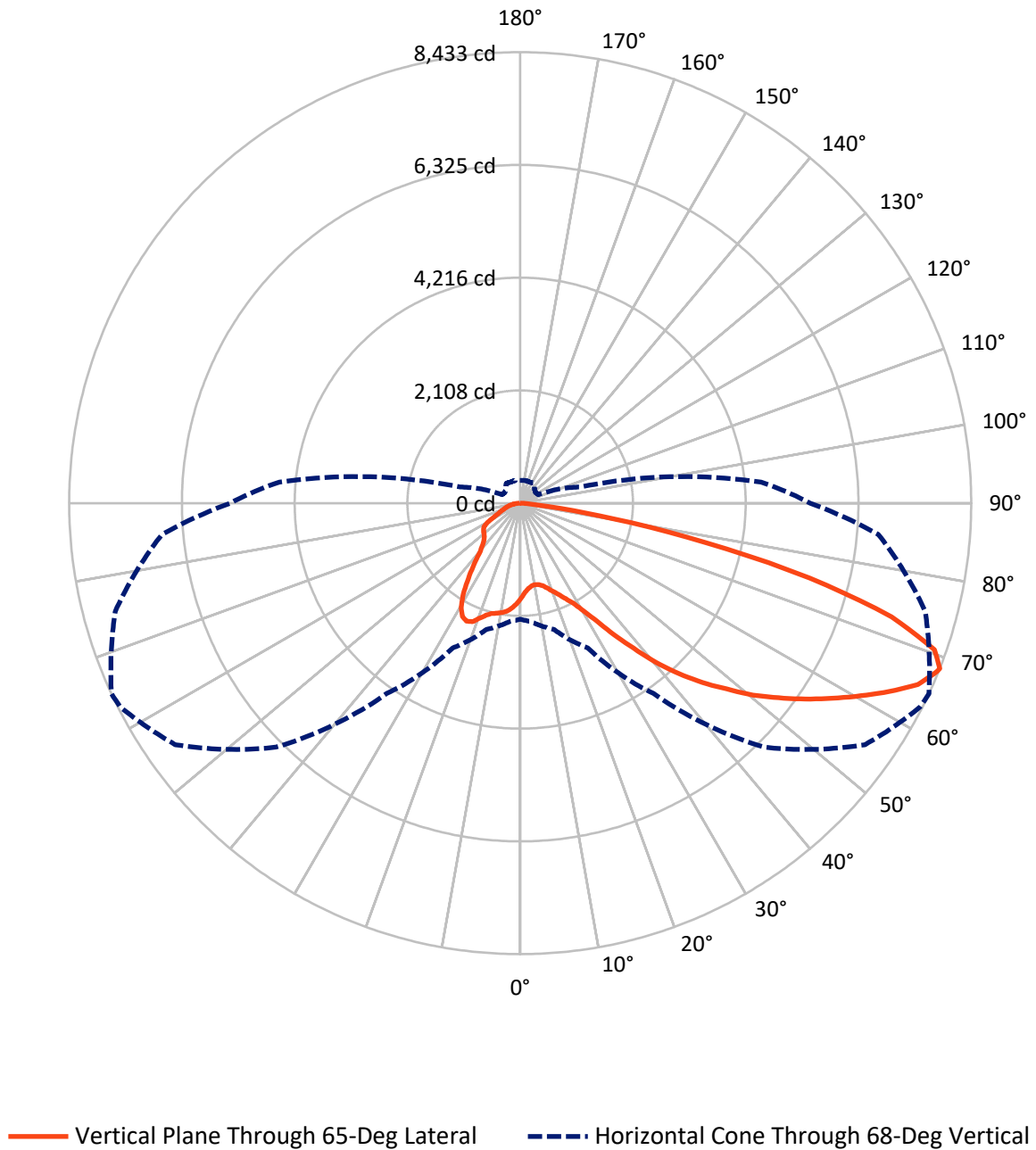
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
Type III - Short - N/A

REPORT NUMBER: P1210123
CATALOG NUMBER: ARCH2-110-750-U-T3RE

Luminous Intensity Polar Plot



REPORT NUMBER: P1210123

CATALOG NUMBER: ARCH2-110-750-U-T3RE

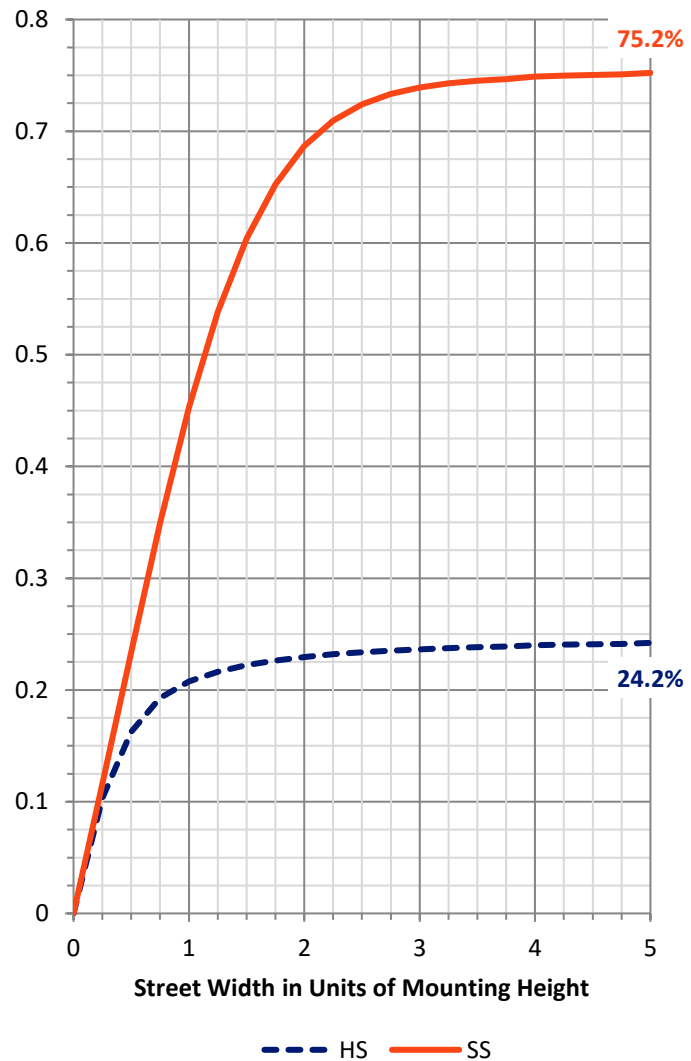
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3411.3	0.0	3411.3
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	10502.7	0.0	10502.7
	% Fixture	75.5	0.0	75.5
Total	Lumens	13914.0	0.0	13914.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.9	1.2
10°-20°	553.3	4.0
20°-30°	1001.4	7.2
30°-40°	1575.3	11.3
40°-50°	2346.2	16.9
50°-60°	3077.8	22.1
60°-70°	3365.8	24.2
70°-80°	1665.5	12.0
80°-90°	158.9	1.1
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°	13914.0	100.0
0°-180°	13914.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1210123

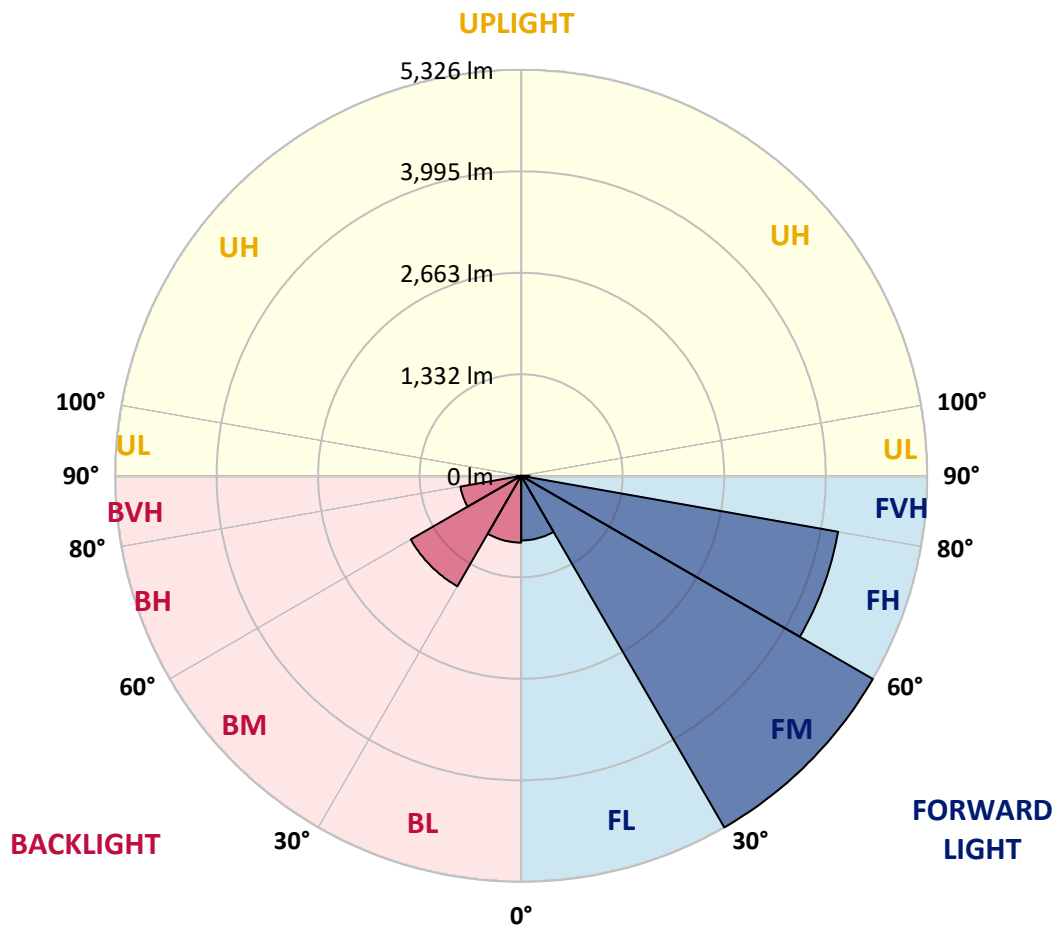
CATALOG NUMBER: ARCH2-110-750-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	848.2	6.1			
FM	(30°-60°)	5326.1	38.3			
FH	(60°-80°)	4221.6	30.3			G2/5000
FVH	(80°-90°)	106.8	0.8			G2/225
BL	(0°-30°)	876.4	6.3	B2/1000		
BM	(30°-60°)	1673.2	12.0	B2/2500		
BH	(60°-80°)	809.7	5.8	B2/1000		G2/1000
BVH	(80°-90°)	52.0	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 III Short



REPORT NUMBER: P1210123

CATALOG NUMBER: ARCH2-110-750-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1778.0	1778.0	1778.0	1778.0	1778.0	1778.0	1778.0	1778.0	1778.0	1778.0	1778.0
2.5°	1552.0	1548.4	1557.4	1566.3	1586.1	1609.4	1641.7	1668.6	1672.2	1722.4	1761.9
5°	1460.5	1455.1	1464.1	1474.8	1483.8	1512.5	1546.6	1586.1	1602.2	1675.8	1760.1
7.5°	1469.4	1467.6	1471.2	1467.6	1467.6	1480.2	1503.5	1543.0	1560.9	1648.9	1769.1
10°	1521.5	1525.1	1526.9	1516.1	1505.3	1499.9	1507.1	1534.0	1546.6	1650.7	1808.5
12.5°	1607.6	1613.0	1614.8	1595.0	1580.7	1557.4	1544.8	1555.6	1564.5	1668.6	1864.2
15°	1724.2	1727.8	1715.2	1702.7	1666.8	1638.1	1607.6	1598.6	1602.2	1706.3	1927.0
17.5°	1860.6	1855.2	1855.2	1824.7	1778.0	1733.2	1682.9	1675.8	1675.8	1767.3	2016.7
20°	2009.5	2014.9	1998.7	1957.5	1910.8	1840.8	1790.6	1758.3	1761.9	1837.2	2126.1
22.5°	2224.8	2233.8	2190.7	2131.5	2059.7	1979.0	1907.2	1855.2	1857.0	1928.8	2239.1
25°	2456.2	2459.8	2432.9	2354.0	2257.1	2142.3	2047.2	1980.8	1979.0	2031.0	2384.5
27.5°	2693.1	2709.2	2655.4	2580.0	2490.3	2346.8	2221.2	2131.5	2117.1	2187.1	2565.7
30°	2937.1	2956.8	2904.8	2831.2	2720.0	2598.0	2449.1	2345.0	2336.0	2429.3	2807.9
32.5°	3182.9	3188.3	3147.0	3086.0	2985.5	2870.7	2750.5	2635.7	2626.7	2779.2	3121.9
35°	3383.8	3400.0	3371.3	3356.9	3283.4	3177.5	3060.9	2994.5	3017.8	3213.4	3529.2
37.5°	3626.1	3642.2	3609.9	3606.3	3583.0	3491.5	3410.8	3416.1	3439.5	3705.0	3958.0
40°	3975.9	3993.9	3911.3	3875.4	3875.4	3785.7	3758.8	3886.2	3916.7	4189.4	4404.7
42.5°	4272.0	4300.7	4252.2	4228.9	4158.9	4096.1	4128.4	4307.8	4359.9	4652.3	4794.1
45°	4415.5	4437.0	4494.4	4562.6	4494.4	4385.0	4507.0	4709.7	4783.3	5079.3	5183.4
47.5°	4492.6	4512.4	4578.8	4761.8	4808.4	4716.9	4889.2	5142.1	5192.4	5502.8	5554.8
50°	4503.4	4566.2	4652.3	4835.3	5048.8	5061.4	5273.1	5581.7	5640.9	5919.0	5881.3
52.5°	4415.5	4440.6	4618.2	4926.8	5163.7	5379.0	5691.2	6003.4	6046.4	6310.2	6170.2
55°	4272.0	4307.8	4485.5	4905.3	5274.9	5680.4	6116.4	6417.8	6466.3	6690.5	6437.5
57.5°	4142.8	4160.7	4350.9	4842.5	5386.2	5981.8	6495.0	6850.2	6882.5	7024.2	6634.9
60°	3999.2	4019.0	4209.2	4707.9	5468.7	6209.7	6889.7	7286.2	7314.9	7375.9	6864.6
62.5°	3627.8	3679.9	3918.5	4485.5	5447.2	6469.8	7311.3	7716.8	7752.7	7686.3	7045.8
65°	2946.1	3019.6	3312.1	3981.3	5246.2	6638.5	7655.8	8113.3	8174.3	7919.5	7094.2
67.5°	2287.6	2339.6	2574.7	3159.6	4541.1	6554.2	7878.3	8386.0	8404.0	7881.9	6825.1
68°	2169.2	2221.2	2445.5	2987.3	4345.5	6453.7	7872.9	8393.2	8432.7	7840.6	6721.0
70°	1659.6	1718.8	1932.3	2366.5	3502.3	5815.0	7544.6	8221.0	8215.6	7341.8	6075.1
72.5°	1037.0	1071.1	1218.3	1492.8	2316.3	4424.5	6403.5	7250.3	7264.7	5985.4	4659.5
75°	658.5	658.5	651.3	723.1	1187.8	2520.8	4760.0	5581.7	5592.5	4191.2	2937.1
77.5°	572.3	556.2	479.0	405.5	473.7	979.6	2816.9	3604.5	3545.3	2257.1	1394.1
80°	482.6	455.7	392.9	326.5	305.0	306.8	1081.9	1830.1	1751.1	812.8	462.9
82.5°	348.1	324.7	296.0	256.6	235.0	183.0	226.1	529.3	516.7	235.0	150.7
85°	188.4	170.4	166.9	168.7	141.7	113.0	95.1	116.6	116.6	102.3	86.1
87.5°	66.4	48.4	57.4	64.6	55.6	46.6	37.7	44.9	46.6	44.9	41.3
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: P1210123

CATALOG NUMBER: ARCH2-110-750-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1778.0	1778.0	1778.0	1778.0	1778.0	1778.0	1778.0	1778.0	1778.0	1778.0	1778.0
2.5°	1785.2	1803.2	1846.2	1883.9	1910.8	1934.1	1946.7	1952.1	1964.6	1966.4	1962.8
5°	1799.6	1846.2	1910.8	1966.4	1996.9	2009.5	2013.1	2014.9	2009.5	2013.1	2009.5
7.5°	1837.2	1896.5	1988.0	2036.4	2041.8	2022.0	2023.8	2016.7	2023.8	2031.0	2031.0
10°	1894.7	1970.0	2056.1	2074.1	2050.8	2040.0	2061.5	2104.6	2118.9	2138.7	2138.7
12.5°	1970.0	2059.7	2120.7	2104.6	2083.1	2118.9	2181.7	2224.8	2239.1	2246.3	2240.9
15°	2056.1	2153.0	2183.5	2129.7	2169.2	2246.3	2267.9	2242.7	2206.9	2190.7	2199.7
17.5°	2165.6	2246.3	2228.4	2192.5	2282.2	2293.0	2223.0	2142.3	2084.8	2063.3	2077.7
20°	2280.4	2350.4	2267.9	2284.0	2339.6	2224.8	2092.0	1988.0	1937.7	1928.8	1943.1
22.5°	2402.4	2447.3	2307.3	2389.9	2307.3	2074.1	1914.4	1860.6	1848.0	1862.4	1874.9
25°	2540.6	2535.2	2375.5	2422.2	2187.1	1889.3	1794.2	1790.6	1790.6	1799.6	1817.5
27.5°	2696.7	2612.3	2443.7	2379.1	1979.0	1736.8	1718.8	1720.6	1715.2	1717.0	1726.0
30°	2877.9	2716.4	2519.0	2237.4	1745.7	1621.9	1614.8	1609.4	1596.8	1593.2	1596.8
32.5°	3105.7	2825.8	2596.2	2004.1	1541.2	1503.5	1499.9	1471.2	1440.7	1437.1	1449.7
35°	3394.6	3025.0	2635.7	1711.7	1372.6	1370.8	1358.2	1313.3	1273.9	1273.9	1264.9
37.5°	3724.7	3281.6	2651.8	1426.4	1232.6	1241.6	1205.7	1148.3	1117.8	1099.8	1105.2
40°	4062.0	3574.0	2650.0	1177.0	1110.6	1112.4	1085.5	1015.5	940.2	895.3	906.1
42.5°	4386.8	3839.6	2603.4	1044.2	1011.9	1006.5	985.0	889.9	827.1	791.2	793.0
45°	4646.9	4114.1	2531.6	965.3	922.2	931.2	882.7	825.3	767.9	735.6	733.8
47.5°	4907.1	4322.2	2416.8	916.8	855.8	839.7	819.9	780.5	737.4	701.5	703.3
50°	5143.9	4499.8	2309.1	884.5	794.8	753.6	757.1	733.8	696.1	663.8	662.1
52.5°	5310.8	4616.4	2249.9	866.6	721.3	676.4	689.0	676.4	640.5	617.2	615.4
55°	5477.7	4706.2	2269.6	843.3	640.5	604.6	626.2	622.6	602.8	595.7	597.5
57.5°	5612.2	4774.3	2339.6	800.2	563.4	541.8	577.7	567.0	552.6	554.4	554.4
60°	5743.2	4862.2	2422.2	701.5	497.0	498.8	532.9	513.1	504.2	520.3	522.1
62.5°	5879.6	4957.3	2354.0	558.0	439.6	452.1	491.6	475.5	479.0	502.4	509.5
65°	5863.4	4948.4	1918.0	457.5	389.3	414.5	473.7	468.3	470.1	479.0	482.6
67.5°	5533.3	4632.6	1318.7	389.3	353.5	384.0	459.3	437.8	439.6	434.2	436.0
68°	5422.0	4521.4	1162.6	378.6	346.3	376.8	452.1	432.4	434.2	428.8	427.0
70°	4815.6	3871.9	735.6	333.7	321.2	357.0	416.3	409.1	407.3	403.7	403.7
72.5°	3670.9	2858.1	387.5	288.9	292.5	326.5	371.4	385.8	376.8	378.6	389.3
75°	2431.1	1718.8	269.1	247.6	256.6	279.9	330.1	358.8	349.9	355.2	349.9
77.5°	1286.4	925.8	215.3	209.9	209.9	226.1	272.7	317.6	317.6	314.0	308.6
80°	421.6	326.5	172.2	165.1	168.7	177.6	218.9	260.2	265.5	258.4	254.8
82.5°	141.7	150.7	129.2	120.2	123.8	131.0	165.1	199.2	200.9	186.6	183.0
85°	87.9	100.5	80.7	78.9	78.9	80.7	100.5	109.4	100.5	89.7	93.3
87.5°	41.3	50.2	37.7	32.3	26.9	23.3	17.9	7.2	7.2	3.6	3.6
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)