

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: P836709

Luminaire Tested: **ARCH3-60-740-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836709
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: ARCH3-60-740-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 505mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10661 lumens
Efficiency: N/A
Efficacy: 168.7 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): 63.2
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



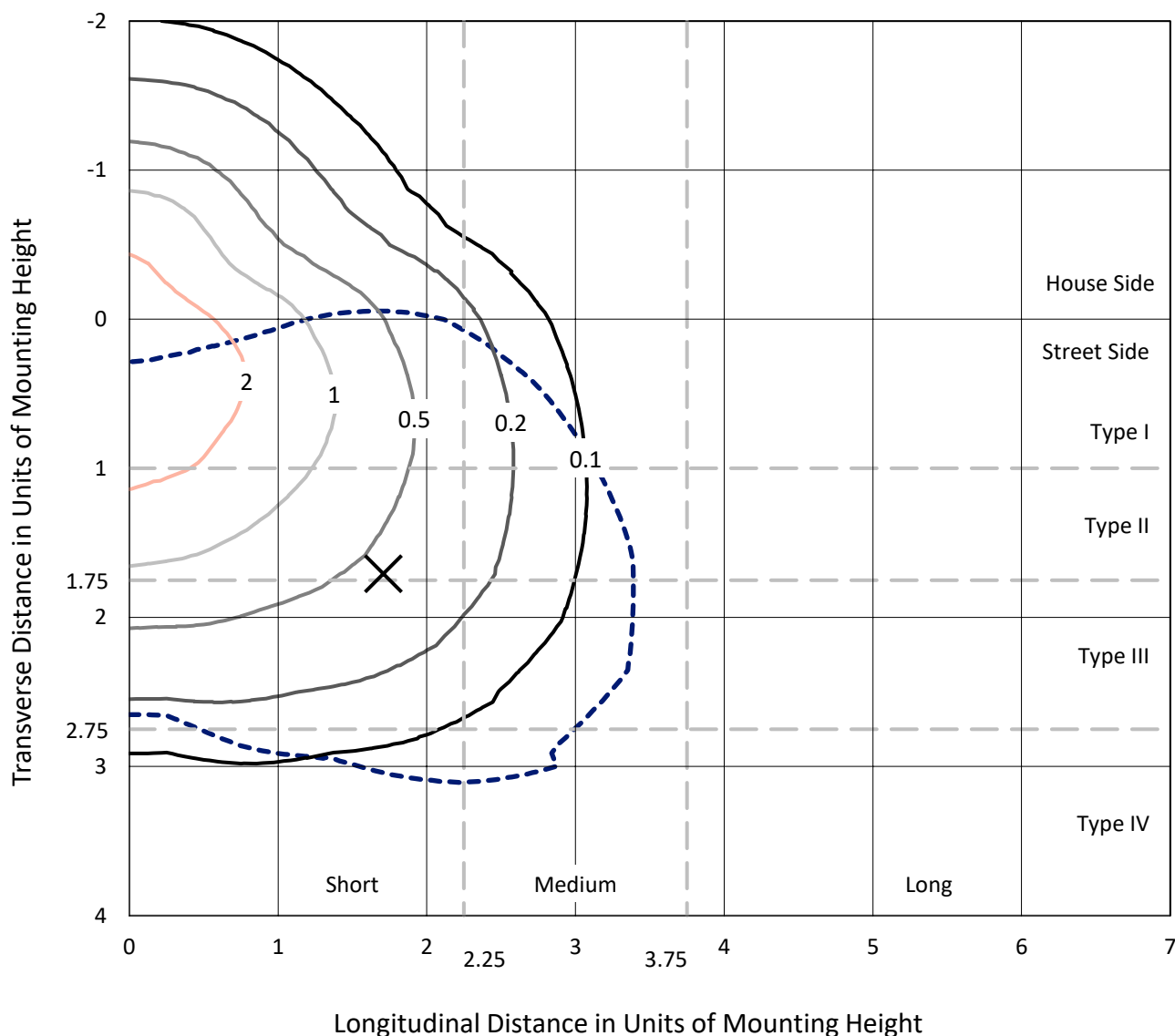
REPORT NUMBER: P836709

CATALOG NUMBER: ARCH3-60-740-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



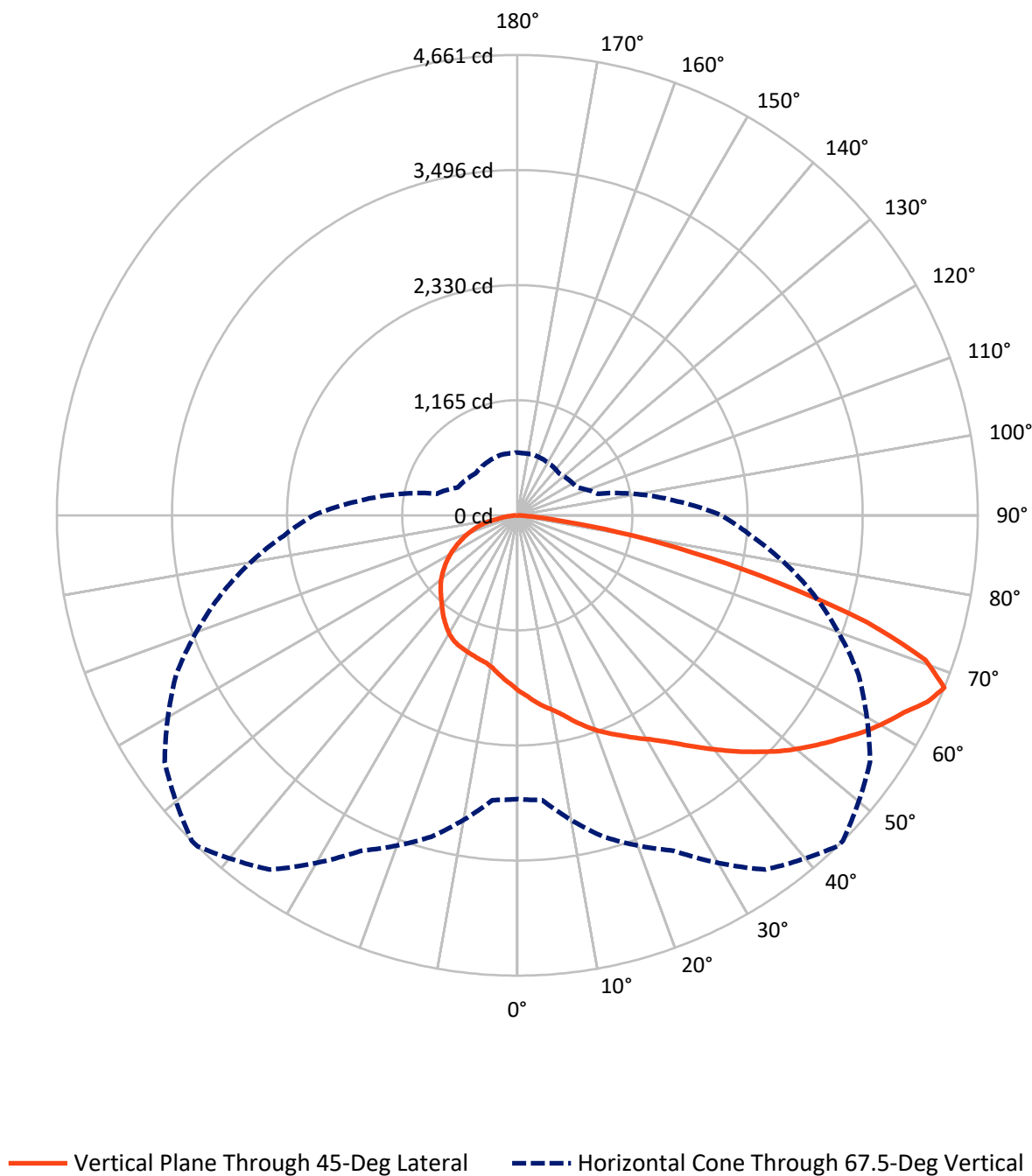
Based on 25 foot mounting height. Maximum calculated value = 3.3 fc

Type IV - Short - N/A

REPORT NUMBER: P836709

CATALOG NUMBER: ARCH3-60-740-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P836709

CATALOG NUMBER: ARCH3-60-740-U-T4W

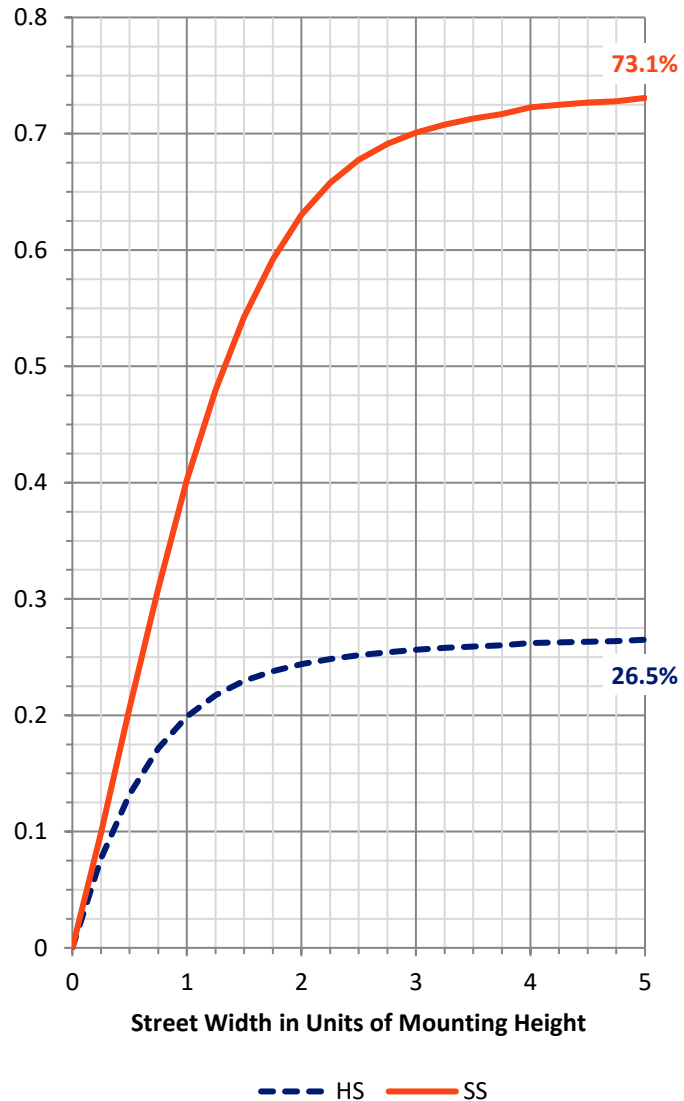
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2848.1	0.0	2848.1
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	7812.9	0.0	7812.9
	% Fixture	73.3	0.0	73.3
Total	Lumens	10661.0	0.0	10661.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.2	1.6
10°-20°	525.9	4.9
20°-30°	907.7	8.5
30°-40°	1338.6	12.6
40°-50°	1813.6	17.0
50°-60°	2216.6	20.8
60°-70°	2286.1	21.4
70°-80°	1252.2	11.7
80°-90°	150.1	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°	10661.0	100.0
0°-180°	10661.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836709

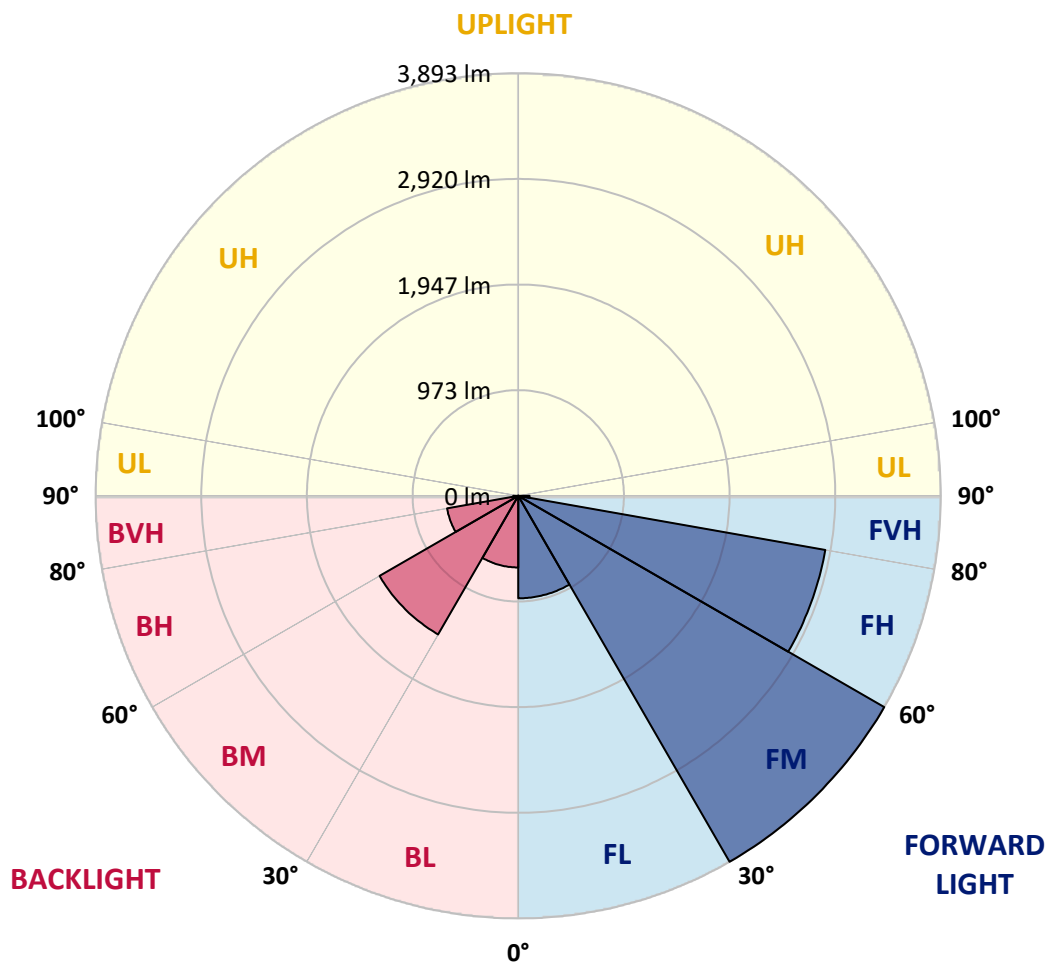
CATALOG NUMBER: ARCH3-60-740-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	943.8	8.9			
FM	(30°-60°)	3893.5	36.5			
FH	(60°-80°)	2872.2	26.9			G2/5000
FVH	(80°-90°)	103.4	1.0			G2/225
BL	(0°-30°)	660.1	6.2	B2/1000		
BM	(30°-60°)	1475.3	13.8	B2/2500		
BH	(60°-80°)	666.0	6.2	B2/1000		G2/1000
BVH	(80°-90°)	46.7	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: P836709

CATALOG NUMBER: ARCH3-60-740-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1855.9	1854.3	1857.5	1846.2	1831.6	1830.0	1830.0	1820.2	1808.9	1786.2	1768.3
5°	1943.5	1940.3	1941.9	1925.7	1906.2	1896.5	1894.9	1873.8	1847.8	1812.1	1779.7
7.5°	2024.6	2021.4	2019.8	2001.9	1972.7	1956.5	1954.9	1924.1	1893.2	1838.1	1791.0
10°	2100.9	2097.6	2094.4	2070.1	2034.4	2010.0	2006.8	1967.9	1928.9	1860.8	1800.8
12.5°	2198.2	2191.7	2188.5	2159.3	2107.4	2081.4	2076.6	2024.6	1976.0	1893.2	1820.2
15°	2300.4	2295.6	2290.7	2263.1	2204.7	2170.7	2162.5	2097.6	2031.1	1935.4	1849.4
17.5°	2376.7	2371.8	2371.8	2347.5	2293.9	2255.0	2248.5	2170.7	2087.9	1974.4	1872.1
20°	2423.7	2418.9	2423.7	2409.1	2368.6	2336.1	2329.6	2243.7	2144.7	2010.0	1891.6
22.5°	2457.8	2452.9	2461.0	2454.6	2425.4	2405.9	2401.0	2316.7	2203.1	2047.4	1911.1
25°	2517.8	2517.8	2517.8	2506.5	2478.9	2472.4	2472.4	2399.4	2277.7	2096.0	1940.3
27.5°	2637.9	2631.4	2623.3	2590.8	2543.8	2542.2	2551.9	2483.8	2363.7	2159.3	1976.0
30°	2814.7	2811.5	2780.6	2712.5	2633.0	2624.9	2631.4	2574.6	2456.2	2225.8	2016.5
32.5°	3043.5	3032.1	2968.8	2866.6	2753.1	2715.7	2728.7	2668.7	2553.5	2293.9	2055.5
35°	3205.7	3208.9	3163.5	3071.0	2936.4	2837.4	2847.2	2774.2	2659.0	2370.2	2104.1
37.5°	3392.3	3403.6	3335.5	3265.7	3140.8	2972.1	2981.8	2882.8	2764.4	2465.9	2156.1
40°	3650.2	3627.5	3512.3	3429.6	3291.7	3113.2	3121.3	3004.5	2886.1	2556.8	2216.1
42.5°	3866.0	3825.4	3685.9	3580.4	3415.0	3262.5	3270.6	3135.9	3009.4	2657.3	2282.6
45°	4175.8	4063.9	3862.7	3810.8	3541.5	3408.5	3416.6	3275.4	3139.2	2764.4	2354.0
47.5°	4355.9	4177.5	4049.3	4021.7	3681.0	3559.3	3569.1	3423.1	3278.7	2886.1	2428.6
50°	4344.5	4229.4	4192.1	4123.9	3804.3	3700.5	3710.2	3575.6	3419.8	3006.1	2500.0
52.5°	4269.9	4291.0	4271.5	4158.0	3927.6	3836.8	3848.1	3726.4	3564.2	3118.1	2566.5
55°	4385.1	4399.7	4362.4	4213.1	4063.9	3973.0	3986.0	3885.4	3707.0	3217.0	2623.3
57.5°	4523.0	4471.1	4433.8	4310.5	4205.0	4120.7	4135.3	4047.7	3830.3	3296.5	2667.1
60°	4516.5	4407.8	4445.1	4317.0	4300.7	4256.9	4269.9	4180.7	3924.4	3354.9	2684.9
62.5°	4183.9	4125.5	4313.7	4269.9	4378.6	4378.6	4394.8	4261.8	3981.2	3379.3	2675.2
65°	3606.4	3609.6	3940.6	4122.3	4471.1	4545.7	4558.7	4312.1	3948.7	3307.9	2584.3
67.5°	2873.1	2894.2	3369.5	3747.5	4378.6	4659.3	4660.9	4357.5	3809.2	3106.7	2373.4
70°	2102.5	2118.7	2680.1	3139.2	3942.2	4407.8	4381.9	4229.4	3505.8	2756.3	2044.1
72.5°	1421.1	1435.7	2013.3	2410.8	3234.9	3754.0	3697.2	3737.8	2988.3	2264.7	1643.4
75°	955.5	973.4	1432.5	1724.5	2379.9	2850.4	2723.9	2830.9	2311.8	1714.8	1198.9
77.5°	601.9	613.2	910.1	1130.8	1625.6	1940.3	1813.7	1815.4	1331.9	923.1	644.1
80°	382.9	386.1	551.6	652.2	940.9	1166.4	1031.8	838.7	600.3	489.9	384.5
82.5°	222.3	217.4	329.3	368.3	447.8	442.9	366.6	347.2	262.8	245.0	196.3
85°	89.2	82.7	144.4	134.7	136.3	144.4	107.1	107.1	86.0	66.5	48.7
87.5°	17.8	17.8	19.5	17.8	17.8	19.5	14.6	14.6	13.0	13.0	13.0
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: P836709

CATALOG NUMBER: ARCH3-60-740-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1	1778.1
2.5°	1765.1	1761.8	1753.7	1732.6	1721.3	1714.8	1705.0	1701.8	1700.2	1701.8	1706.7
5°	1769.9	1758.6	1735.9	1701.8	1679.1	1664.5	1648.3	1641.8	1636.9	1636.9	1641.8
7.5°	1773.2	1755.3	1716.4	1666.1	1633.7	1611.0	1591.5	1583.4	1581.8	1586.6	1588.2
10°	1774.8	1748.9	1693.7	1630.4	1588.2	1559.0	1539.6	1534.7	1539.6	1549.3	1550.9
12.5°	1786.2	1750.5	1680.7	1606.1	1555.8	1526.6	1512.0	1512.0	1525.0	1542.8	1544.4
15°	1805.6	1761.8	1674.2	1586.6	1534.7	1508.7	1503.9	1512.0	1531.5	1559.0	1562.3
17.5°	1820.2	1768.3	1659.6	1560.7	1507.1	1490.9	1499.0	1518.5	1546.1	1583.4	1586.6
20°	1830.0	1768.3	1638.5	1529.8	1479.5	1476.3	1499.0	1529.8	1559.0	1602.8	1607.7
22.5°	1839.7	1765.1	1614.2	1492.5	1448.7	1458.5	1500.6	1539.6	1568.8	1615.8	1623.9
25°	1857.5	1769.9	1589.9	1455.2	1416.3	1443.9	1499.0	1546.1	1576.9	1625.6	1638.5
27.5°	1881.9	1781.3	1572.0	1421.1	1383.8	1421.1	1487.7	1544.4	1576.9	1623.9	1638.5
30°	1907.8	1794.3	1550.9	1383.8	1346.5	1388.7	1463.3	1526.6	1563.9	1607.7	1625.6
32.5°	1935.4	1808.9	1533.1	1343.3	1301.1	1344.9	1427.6	1499.0	1539.6	1580.1	1599.6
35°	1972.7	1834.8	1523.3	1310.8	1260.5	1299.5	1382.2	1463.3	1507.1	1544.4	1567.2
37.5°	2018.2	1867.3	1518.5	1278.4	1216.7	1249.2	1333.5	1419.5	1466.6	1497.4	1518.5
40°	2070.1	1907.8	1516.9	1247.6	1172.9	1197.3	1283.2	1369.2	1414.7	1439.0	1456.8
42.5°	2128.5	1953.3	1513.6	1216.7	1129.1	1148.6	1234.6	1318.9	1357.9	1379.0	1395.2
45°	2190.1	1998.7	1507.1	1179.4	1082.1	1104.8	1184.3	1258.9	1299.5	1317.3	1335.2
47.5°	2251.8	2044.1	1494.1	1137.2	1039.9	1061.0	1130.8	1195.6	1228.1	1244.3	1262.2
50°	2311.8	2084.7	1463.3	1088.6	996.1	1015.6	1069.1	1112.9	1137.2	1150.2	1168.1
52.5°	2365.3	2112.2	1419.5	1031.8	952.3	962.0	997.7	1035.0	1054.5	1056.1	1072.3
55°	2410.8	2126.8	1356.3	973.4	905.2	906.9	926.3	955.5	963.7	957.2	968.5
57.5°	2436.7	2118.7	1286.5	913.4	856.6	850.1	864.7	879.3	880.9	864.7	876.0
60°	2443.2	2081.4	1195.6	853.3	807.9	790.1	794.9	791.7	788.4	782.0	791.7
62.5°	2410.8	2001.9	1095.1	794.9	756.0	728.4	726.8	725.2	730.0	731.7	733.3
65°	2292.3	1852.7	975.0	734.9	700.8	663.5	661.9	681.4	687.9	678.1	681.4
67.5°	2063.6	1623.9	843.6	665.1	631.1	598.6	611.6	623.0	634.3	631.1	634.3
70°	1739.1	1333.5	723.6	587.3	554.8	537.0	551.6	561.3	562.9	559.7	562.9
72.5°	1367.6	1041.5	611.6	507.8	478.6	470.5	488.3	496.4	511.0	517.5	519.1
75°	988.0	769.0	501.3	421.8	397.5	397.5	413.7	428.3	441.3	433.2	428.3
77.5°	551.6	459.1	360.2	290.4	295.3	318.0	324.5	340.7	353.7	352.0	348.8
80°	334.2	287.1	243.3	188.2	186.6	204.4	246.6	274.2	280.7	266.1	264.4
82.5°	173.6	150.9	129.8	105.5	116.8	136.3	142.8	172.0	189.8	183.3	191.4
85°	43.8	42.2	47.0	48.7	60.0	66.5	73.0	86.0	56.8	27.6	27.6
87.5°	13.0	13.0	16.2	16.2	21.1	26.0	24.3	24.3	13.0	1.6	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)