

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: P257927

Luminaire Tested: **ARCH-L-AF72-110-D-U-T2U-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P257927
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-616-1)
Test Lab: INNOVATIONS CENTER(G2)
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-110-D-U-T2U-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 485mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14838.5 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

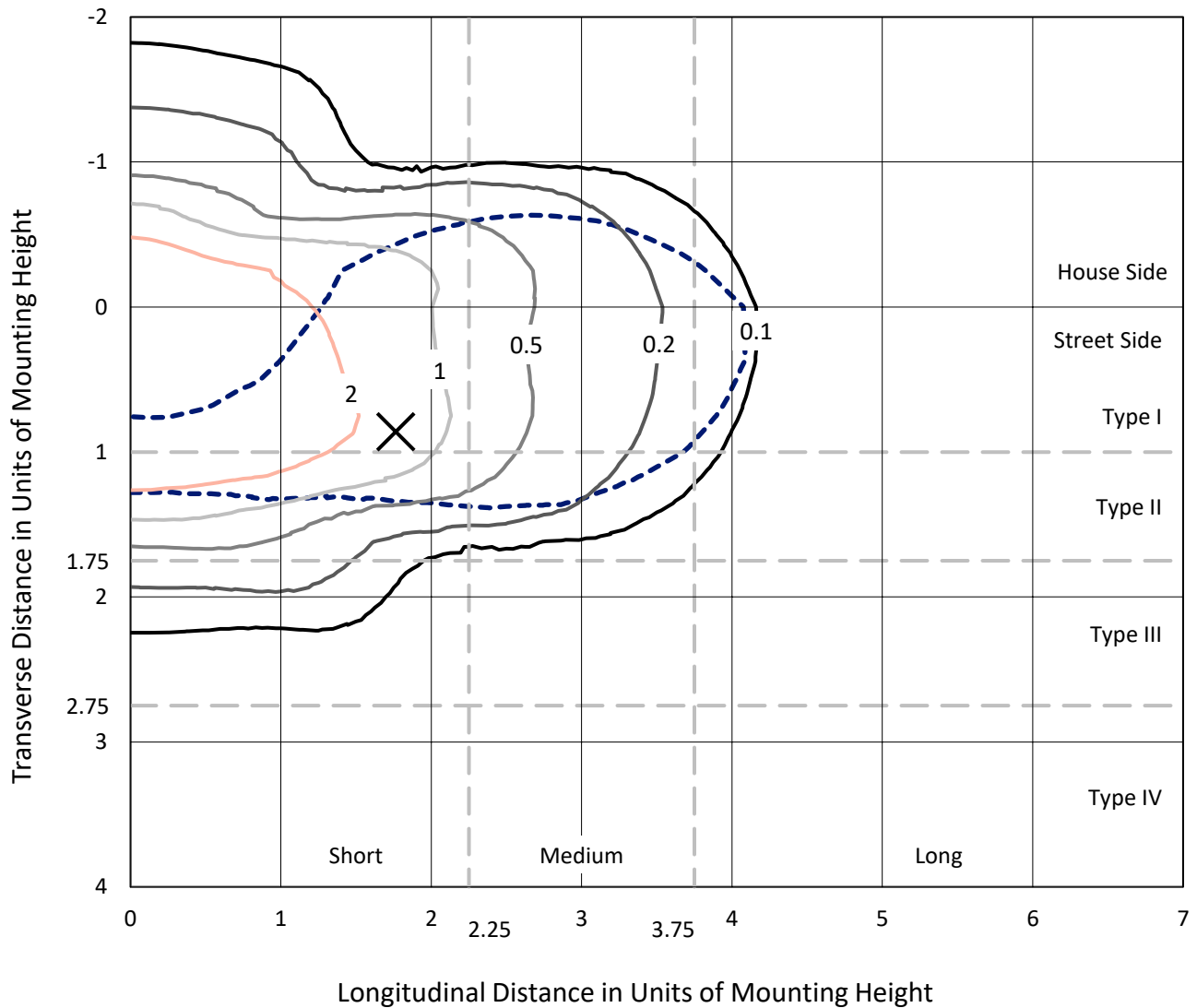
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P257927
 CATALOG NUMBER: ARCH-L-AF72-110-D-U-T2U-7030

Iso-Footcandle Lines of Horizontal Illumination

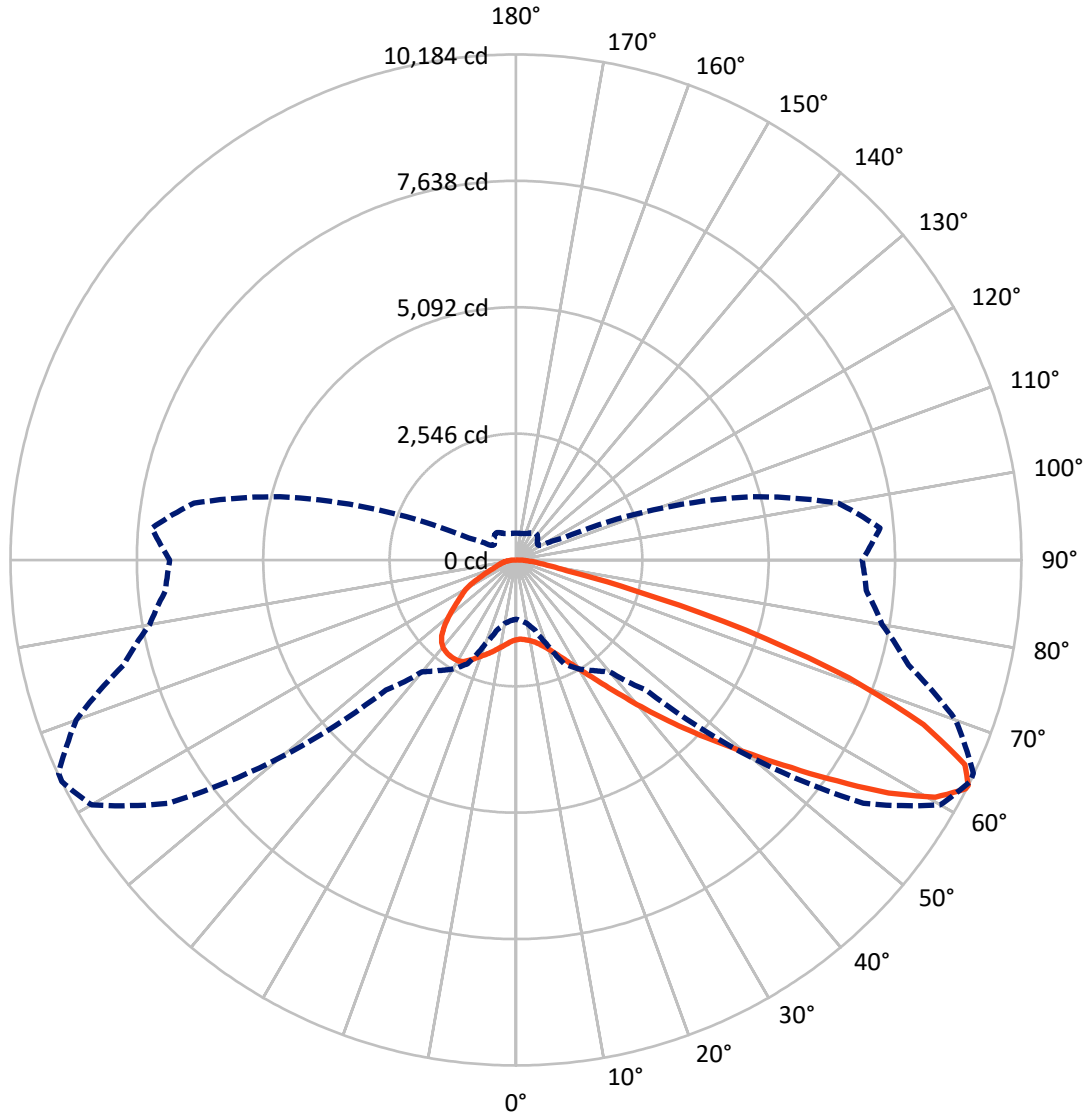
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - N/A

REPORT NUMBER: P257927
CATALOG NUMBER: ARCH-L-AF72-110-D-U-T2U-7030

Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P257927
 CATALOG NUMBER: ARCH-L-AF72-110-D-U-T2U-7030

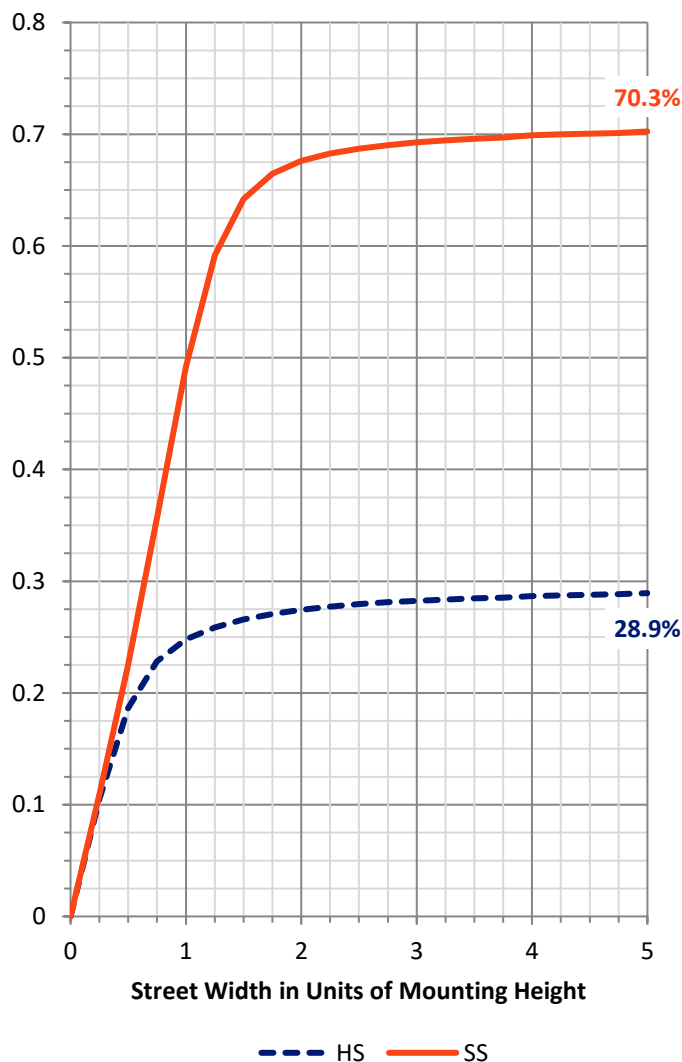
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4362.0	0.0	4362.0
	% Fixture	29.4	0.0	29.4
Street Side	Lumens	10476.5	0.0	10476.5
	% Fixture	70.6	0.0	70.6
Total	Lumens	14838.5	0.0	14838.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.4	1.1
10°-20°	534.4	3.6
20°-30°	1003.2	6.8
30°-40°	1681.4	11.3
40°-50°	2821.0	19.0
50°-60°	3576.2	24.1
60°-70°	3154.7	21.3
70°-80°	1628.5	11.0
80°-90°	278.7	1.9
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°	14838.5	100.0
0°-180°	14838.5	100.0

Coefficient of Utilization



REPORT NUMBER: P257927

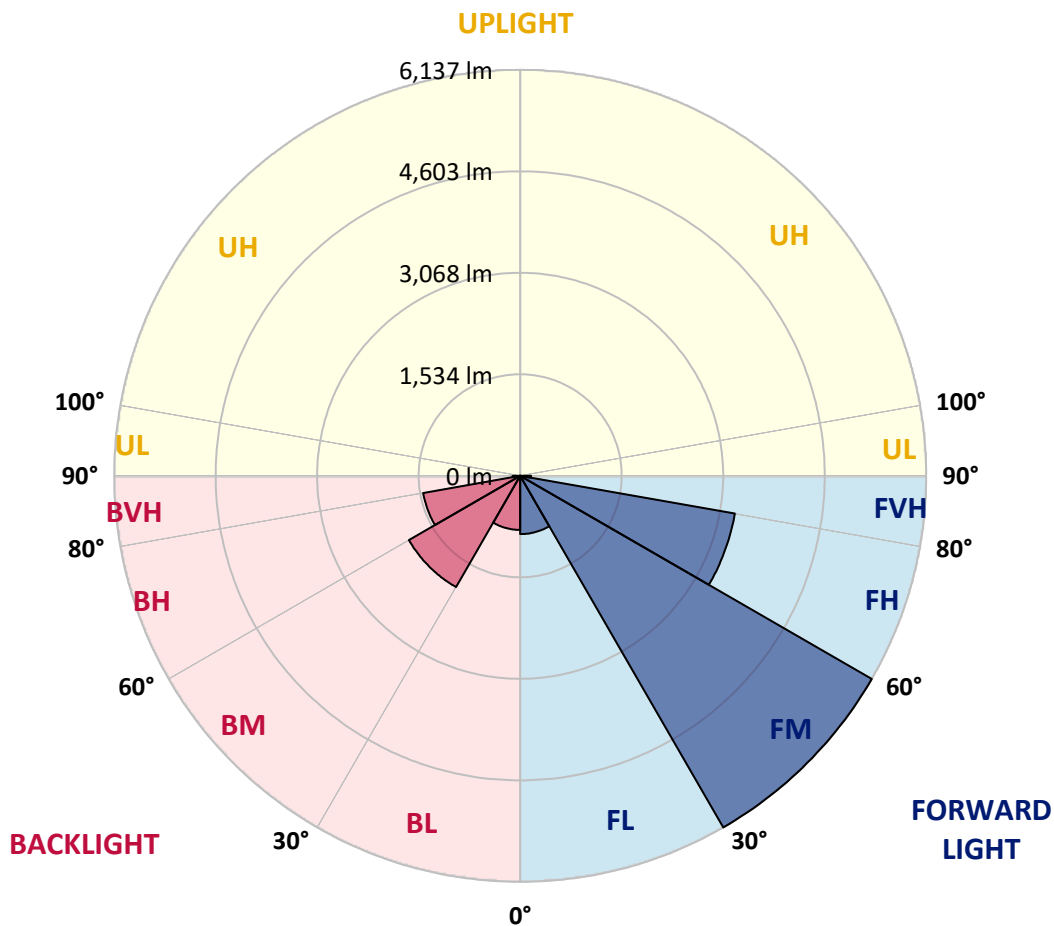
CATALOG NUMBER: ARCH-L-AF72-110-D-U-T2U-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	880.7	5.9			
FM (30°-60°)	6136.8	41.4			
FH (60°-80°)	3295.0	22.2			G2/5000
FVH (80°-90°)	164.0	1.1			G2/225
BL (0°-30°)	817.3	5.5	B2/1000		
BM (30°-60°)	1941.7	13.1	B2/2500		
BH (60°-80°)	1488.3	10.0	B3/2500		G3/2500
BVH (80°-90°)	114.7	0.8			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 II Short





REPORT NUMBER: P257927

CATALOG NUMBER: ARCH-L-AF72-110-D-U-T2U-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1606.9	1606.9	1606.9	1606.9	1606.9	1606.9	1606.9	1606.9	1606.9	1606.9	1606.9
2.5°	1597.1	1594.6	1594.6	1594.6	1594.6	1592.1	1594.6	1599.5	1597.1	1594.6	1599.5
5°	1602.1	1599.5	1599.5	1599.5	1602.1	1599.5	1602.1	1609.5	1604.5	1604.5	1609.5
7.5°	1614.5	1612.0	1614.5	1612.0	1612.0	1612.0	1614.5	1622.0	1619.4	1622.0	1629.4
10°	1629.4	1629.4	1629.4	1629.4	1629.4	1629.4	1634.3	1639.3	1641.7	1644.3	1654.1
12.5°	1674.1	1674.1	1674.1	1671.5	1671.5	1664.1	1674.1	1679.0	1684.0	1688.9	1696.5
15°	1768.5	1768.5	1765.9	1756.1	1756.1	1741.1	1743.6	1746.1	1746.1	1751.1	1756.1
17.5°	1892.6	1890.1	1885.2	1877.7	1867.8	1850.5	1845.5	1840.5	1833.1	1830.5	1830.5
20°	2066.5	2064.0	2054.1	2034.2	2021.9	1994.4	1974.7	1954.7	1947.3	1934.9	1932.4
22.5°	2314.8	2314.8	2295.0	2265.2	2255.2	2198.2	2141.1	2098.8	2083.9	2066.5	2066.5
25°	2615.4	2612.9	2585.6	2550.8	2508.6	2449.0	2379.4	2322.3	2285.0	2245.4	2230.4
27.5°	2975.5	2968.1	2930.9	2888.6	2809.2	2734.6	2652.7	2593.0	2528.5	2478.8	2434.1
30°	3397.9	3390.4	3325.8	3246.3	3164.3	3089.9	2970.6	2898.5	2796.7	2737.2	2687.4
32.5°	3887.1	3879.7	3762.9	3686.0	3599.0	3507.1	3365.5	3251.2	3122.1	3037.6	2968.1
35°	4510.6	4480.7	4314.3	4207.5	4070.9	3979.0	3830.0	3676.0	3524.4	3405.3	3303.5
37.5°	5183.6	5148.9	5002.3	4843.4	4709.3	4597.5	4386.3	4192.6	4013.7	3849.9	3723.2
40°	5886.6	5794.7	5638.3	5521.4	5429.5	5322.8	5101.7	4898.0	4617.3	4433.5	4242.3
42.5°	6373.4	6283.9	6174.7	6097.6	6053.0	5971.0	5846.8	5670.4	5419.6	5424.6	4920.4
45°	6693.8	6562.1	6487.6	6492.6	6510.0	6510.0	6487.6	6460.3	6351.0	6425.5	6003.2
47.5°	6579.5	6492.6	6445.4	6544.7	6668.9	6793.0	6937.2	7093.6	7272.6	7483.6	6964.5
50°	5908.8	5941.2	5963.6	6174.7	6440.4	6723.6	7053.9	7481.1	7980.4	8077.2	7826.4
52.5°	4838.4	4907.9	4982.4	5305.3	5655.6	6144.8	6723.6	7429.0	8099.6	8494.5	8469.7
55°	3758.0	3844.9	4003.8	4244.7	4523.0	4985.0	5700.3	6788.2	7833.8	8462.2	8844.7
57.5°	2675.0	2801.7	3010.3	3345.6	3591.6	3852.4	4381.4	5588.5	6733.5	7903.4	8782.6
60°	1778.4	1838.0	1974.7	2391.9	2806.7	3079.9	3454.9	3892.1	4828.5	6440.4	8141.8
62.5°	1261.7	1301.5	1386.0	1574.8	1949.7	2444.0	2670.1	2871.3	3171.8	4142.9	6537.3
63°	1192.2	1227.0	1296.6	1455.5	1793.3	2305.0	2535.9	2719.7	2938.3	3705.7	6184.6
65°	988.6	1003.4	1040.7	1117.7	1299.0	1723.8	2101.3	2213.0	2250.3	2382.0	3874.7
67.5°	834.5	844.5	856.9	879.2	951.3	1147.5	1567.3	1708.9	1666.6	1577.1	1915.0
70°	725.3	732.7	752.6	779.9	804.7	854.4	1078.0	1289.0	1241.8	1120.2	1172.4
72.5°	578.7	591.1	613.5	660.7	710.4	774.9	829.6	961.3	931.4	814.6	827.1
75°	457.0	464.5	484.3	519.1	566.3	640.8	747.7	792.3	710.4	601.0	601.0
77.5°	362.6	370.1	387.5	414.7	444.5	496.8	571.3	688.0	638.3	452.0	449.6
80°	273.2	280.7	298.1	322.9	352.7	389.9	434.7	486.9	586.1	422.3	337.8
82.5°	201.1	203.7	233.5	250.9	260.8	290.6	327.9	357.8	402.4	389.9	300.6
85°	151.6	149.0	169.0	181.3	183.8	191.2	213.6	243.4	263.4	253.4	233.5
87.5°	84.4	74.6	87.0	99.3	99.3	101.8	106.8	124.2	141.6	136.6	124.2
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: P257927

CATALOG NUMBER: ARCH-L-AF72-110-D-U-T2U-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	64°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1606.9	1606.9	1606.9	1606.9	1606.9	1606.9	1606.9	1606.9	1606.9	1606.9	1606.9
2.5°	1599.5	1599.5	1597.1	1597.1	1599.5	1599.5	1597.1	1604.5	1609.5	1609.5	1612.0
5°	1606.9	1609.5	1606.9	1606.9	1609.5	1609.5	1612.0	1619.4	1626.9	1631.8	1639.3
7.5°	1629.4	1631.8	1629.4	1629.4	1631.8	1634.3	1639.3	1649.3	1654.1	1664.1	1676.6
10°	1654.1	1656.7	1654.1	1656.7	1659.2	1661.7	1669.1	1676.6	1684.0	1693.9	1713.8
12.5°	1698.9	1701.3	1696.5	1698.9	1706.3	1706.3	1711.3	1716.3	1728.7	1741.1	1761.0
15°	1761.0	1761.0	1756.1	1758.5	1765.9	1765.9	1768.5	1773.4	1788.3	1803.3	1823.1
17.5°	1833.1	1838.0	1835.5	1838.0	1842.9	1845.5	1845.5	1850.5	1860.3	1870.3	1890.1
20°	1929.8	1932.4	1927.5	1932.4	1937.3	1932.4	1927.5	1924.9	1929.8	1934.9	1957.3
22.5°	2061.5	2059.1	2046.7	2046.7	2046.7	2036.7	2024.2	2009.4	2009.4	2001.9	2019.3
25°	2218.0	2210.6	2193.2	2195.7	2178.3	2163.4	2141.1	2118.6	2098.8	2091.3	2093.9
27.5°	2401.8	2386.9	2369.5	2364.6	2347.2	2319.8	2282.7	2240.4	2208.1	2183.2	2178.3
30°	2632.8	2600.5	2570.8	2565.7	2538.4	2493.8	2434.1	2376.9	2322.3	2280.1	2265.2
32.5°	2906.0	2856.4	2809.2	2804.1	2759.5	2699.9	2627.8	2548.4	2468.8	2401.8	2369.5
35°	3226.4	3151.9	3107.3	3094.8	3030.2	2955.7	2876.2	2774.4	2662.6	2568.2	2508.6
37.5°	3616.4	3539.4	3462.4	3464.8	3375.4	3288.4	3181.7	3057.5	2915.9	2784.4	2699.9
40°	4098.2	3988.9	3889.6	3867.2	3790.2	3668.5	3551.8	3407.7	3233.8	3060.1	2938.3
42.5°	4681.9	4503.1	4366.4	4346.7	4244.7	4095.8	3954.2	3762.9	3586.6	3375.4	3228.9
45°	5345.1	5059.5	4895.5	4865.8	4701.8	4550.3	4378.9	4175.3	3959.1	3720.8	3546.9
47.5°	6169.7	5762.4	5484.2	5434.5	5208.5	5009.7	4830.9	4604.9	4346.7	4080.9	3889.6
50°	7131.0	6529.9	6154.8	6077.8	5774.8	5541.3	5312.8	5029.6	4754.0	4475.8	4254.7
52.5°	8094.6	7448.9	6949.7	6855.3	6408.2	6095.1	5794.7	5511.5	5186.1	4910.4	4659.6
55°	8869.5	8439.8	7861.2	7729.5	7088.7	6663.9	6269.1	5946.1	5623.2	5404.7	5109.2
57.5°	9336.5	9314.2	8857.1	8675.8	7799.0	7170.6	6731.0	6363.5	6050.4	5958.6	5566.1
60°	9324.0	9902.8	9706.6	9570.0	8516.9	7689.7	7118.5	6721.1	6462.8	6567.1	6025.6
62.5°	8755.3	9927.7	10163.7	10126.3	9281.9	8107.0	7436.4	7026.6	6890.0	7200.5	6502.6
63°	8549.2	9870.5	10183.5	10168.5	9428.4	8186.6	7491.1	7086.2	6974.4	7361.9	6589.4
65°	7225.4	9371.2	9942.6	10009.6	9743.8	8459.7	7617.8	7237.8	7225.4	7722.0	6795.6
67.5°	4403.7	7918.2	8857.1	8986.3	9299.3	8546.7	7545.7	7185.6	7364.4	7774.3	6733.5
70°	1882.7	5225.9	7118.5	7327.2	8092.2	8114.4	7339.6	6972.0	7332.1	7367.0	6291.3
72.5°	1115.2	2463.9	4845.8	5300.3	6403.1	6981.8	6867.6	6599.4	6907.4	6470.3	5357.5
75°	789.8	1152.4	2461.4	2945.7	4458.4	5330.2	5769.8	5894.0	5881.5	5131.5	4021.3
77.5°	566.3	740.1	1038.2	1224.5	2488.7	3422.6	3959.1	4321.8	4205.1	3435.1	2478.8
80°	395.0	511.7	635.9	675.6	1155.0	1758.5	2086.5	2245.4	2175.8	1716.3	1110.3
82.5°	285.6	335.3	409.8	434.7	581.1	812.3	966.2	851.9	817.1	633.3	479.3
85°	221.0	216.2	255.7	265.7	340.3	424.7	434.7	337.8	295.5	263.4	268.2
87.5°	156.5	134.2	136.6	141.6	176.4	226.0	221.0	139.1	119.2	126.6	144.1
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: P257927

CATALOG NUMBER: ARCH-L-AF72-110-D-U-T2U-7030

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1606.9	1606.9	1606.9	1606.9	1606.9	1606.9	1606.9	1606.9	1606.9	1606.9	1606.9
2.5°	1616.9	1619.4	1624.3	1626.9	1631.8	1631.8	1636.8	1639.3	1644.3	1649.3	1651.7
5°	1646.7	1654.1	1664.1	1669.1	1679.0	1686.5	1696.5	1701.3	1711.3	1718.7	1728.7
7.5°	1691.5	1703.9	1716.3	1731.2	1746.1	1758.5	1768.5	1780.8	1798.3	1810.7	1818.1
10°	1733.7	1751.1	1773.4	1790.8	1813.1	1830.5	1845.5	1867.8	1887.7	1905.1	1915.0
12.5°	1788.3	1810.7	1833.1	1860.3	1890.1	1912.5	1934.9	1964.7	1992.1	2011.9	2021.9
15°	1852.9	1880.3	1905.1	1937.3	1972.1	2001.9	2034.2	2066.5	2086.5	2086.5	2081.4
17.5°	1920.0	1942.3	1972.1	2009.4	2056.6	2093.9	2111.2	2116.2	2108.7	2091.3	2078.8
20°	1987.0	2006.9	2039.3	2083.9	2133.7	2141.1	2123.7	2101.3	2078.8	2049.1	2029.3
22.5°	2041.6	2069.0	2118.6	2170.9	2173.2	2131.1	2083.9	2046.7	2011.9	1977.0	1939.8
25°	2106.2	2143.4	2210.6	2230.4	2165.8	2086.5	2019.3	1964.7	1907.5	1850.5	1808.2
27.5°	2185.7	2240.4	2307.4	2250.3	2123.7	2011.9	1920.0	1838.0	1763.5	1684.0	1636.8
30°	2270.2	2354.6	2369.5	2220.4	2051.6	1907.5	1783.3	1659.2	1564.8	1492.7	1465.3
32.5°	2372.0	2481.3	2391.9	2168.4	1954.7	1765.9	1599.5	1450.5	1371.1	1326.3	1314.0
35°	2526.0	2615.4	2404.2	2113.7	1842.9	1597.1	1388.4	1269.1	1219.6	1189.8	1174.9
37.5°	2747.1	2744.6	2401.8	2046.7	1713.8	1413.3	1219.6	1135.1	1095.4	1070.5	1043.2
40°	3005.4	2843.9	2386.9	1949.7	1539.9	1237.0	1102.8	1023.3	986.1	956.2	924.0
42.5°	3261.2	2911.0	2344.7	1805.7	1323.9	1110.3	1018.3	946.3	906.6	874.3	829.6
45°	3482.2	2938.3	2262.8	1606.9	1130.1	1010.8	963.6	901.6	854.4	804.7	769.9
47.5°	3656.2	2933.4	2131.1	1373.5	1001.0	941.4	919.0	876.8	819.7	757.6	712.8
50°	3802.7	2896.1	1952.3	1167.3	914.1	879.2	871.8	859.5	767.4	715.3	688.0
52.5°	3936.8	2841.4	1761.0	1028.2	839.5	809.7	824.6	812.3	747.7	702.9	675.6
55°	4120.6	2804.1	1572.2	921.5	752.6	745.1	757.6	774.9	735.2	692.9	663.2
57.5°	4336.7	2824.1	1428.1	802.3	670.7	675.6	717.9	742.6	722.8	678.1	648.2
60°	4585.1	2883.7	1301.5	688.0	603.5	616.0	678.1	712.8	710.4	658.2	623.5
62.5°	4863.2	2945.7	1100.4	601.0	546.4	566.3	630.9	675.6	683.1	638.3	596.1
63°	4917.9	2950.8	1048.2	583.7	536.5	558.9	618.4	665.6	675.6	633.3	591.1
65°	5052.0	2906.0	844.5	536.5	496.8	521.6	581.1	623.5	643.3	606.1	571.3
67.5°	4940.2	2541.0	635.9	479.3	464.5	481.9	534.1	573.7	591.1	573.7	538.9
70°	4518.0	1847.9	496.8	427.2	429.7	442.1	481.9	519.1	538.9	534.1	501.7
72.5°	3638.8	1048.2	414.7	382.5	389.9	404.8	432.2	467.0	484.3	481.9	459.6
75°	2396.8	536.5	350.1	342.7	347.8	360.1	380.0	407.3	427.2	424.7	414.7
77.5°	1187.2	372.6	300.6	302.9	305.5	315.4	330.3	355.2	367.5	370.1	367.5
80°	489.3	290.6	258.3	260.8	263.4	270.8	280.7	302.9	310.6	315.4	318.0
82.5°	293.1	221.0	206.2	211.1	213.6	221.0	228.5	248.3	255.7	263.4	263.4
85°	193.7	153.9	149.0	153.9	159.0	163.9	166.4	178.8	191.2	201.1	206.2
87.5°	104.4	91.9	89.4	91.9	91.9	96.9	101.8	114.2	129.2	139.1	144.1
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: P257927

CATALOG NUMBER: ARCH-L-AF72-110-D-U-T2U-7030

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	1606.9	1606.9	1606.9	1606.9	1606.9
2.5°	1646.7	1649.3	1646.7	1649.3	1651.7
5°	1728.7	1733.7	1731.2	1731.2	1741.1
7.5°	1823.1	1833.1	1833.1	1838.0	1842.9
10°	1924.9	1934.9	1942.3	1942.3	1949.7
12.5°	2026.8	2031.6	2039.3	2039.3	2039.3
15°	2078.8	2076.5	2074.0	2071.4	2071.4
17.5°	2071.4	2061.5	2056.6	2051.6	2054.1
20°	2016.8	1999.5	1994.4	1987.0	1992.1
22.5°	1922.4	1897.7	1887.7	1875.2	1880.3
25°	1780.8	1751.1	1746.1	1731.2	1738.7
27.5°	1616.9	1602.1	1599.5	1597.1	1609.5
30°	1463.0	1467.9	1470.4	1475.3	1487.8
32.5°	1321.4	1331.4	1333.8	1336.2	1353.6
35°	1182.3	1169.8	1182.3	1177.3	1192.2
37.5°	1030.8	1020.8	1010.8	998.5	1008.5
40°	904.1	886.7	856.9	842.0	844.5
42.5°	804.7	782.4	757.6	742.6	742.6
45°	740.1	712.8	690.5	680.5	680.5
47.5°	690.5	678.1	665.6	658.2	658.2
50°	670.7	655.7	648.2	643.3	643.3
52.5°	655.7	640.8	633.3	628.4	623.5
55°	643.3	620.9	613.5	611.0	611.0
57.5°	625.9	606.1	596.1	593.6	593.6
60°	598.6	583.7	573.7	571.3	571.3
62.5°	571.3	556.3	546.4	546.4	546.4
63°	566.3	548.9	541.5	541.5	541.5
65°	543.9	526.5	519.1	519.1	516.6
67.5°	514.2	496.8	491.7	491.7	486.9
70°	479.3	464.5	459.6	461.9	452.0
72.5°	444.5	429.7	422.3	422.3	412.4
75°	404.8	389.9	380.0	377.5	367.5
77.5°	360.1	347.8	337.8	327.9	322.9
80°	312.9	302.9	290.6	283.2	275.7
82.5°	263.4	253.4	246.0	255.7	218.5
85°	206.2	196.2	186.3	201.1	156.5
87.5°	151.6	146.5	136.6	119.2	104.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)