

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: P257929

Luminaire Tested: **ARCH-L-AF72-130-D-U-T2U-7030**

Issue Date: 8/23/2018

**Test Information**

Test Method: LM-79-08  
Report Number: P257929  
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-AF72-130-D-U-T2U-7030  
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE  
(3) 70 CRI, 3000K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17142.8 lumens  
Efficiency: N/A  
Efficacy: 128.9 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

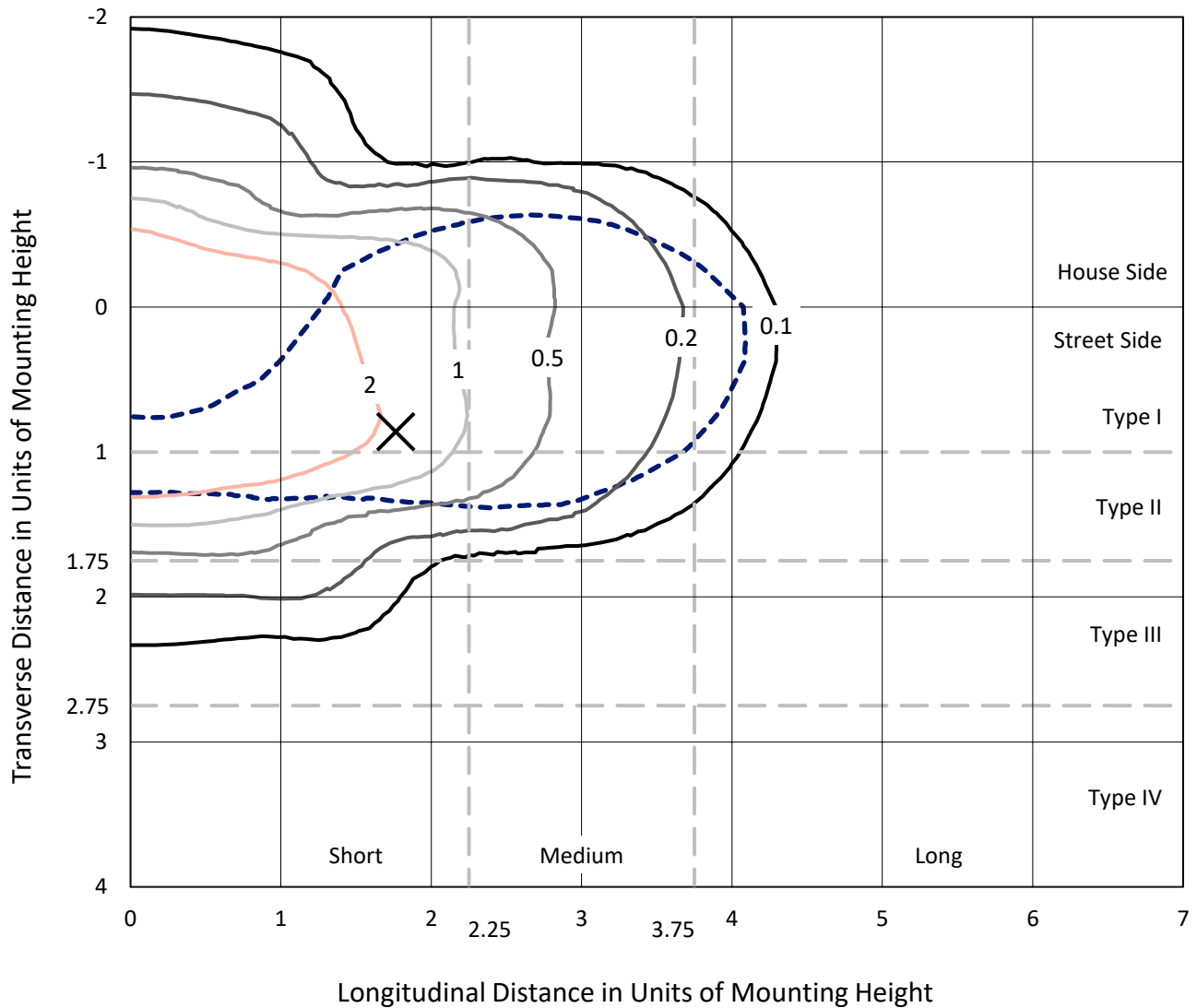
Input Watts (W): 133  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P257929  
 CATALOG NUMBER: ARCH-L-AF72-130-D-U-T2U-7030

### Iso-Footcandle Lines of Horizontal Illumination

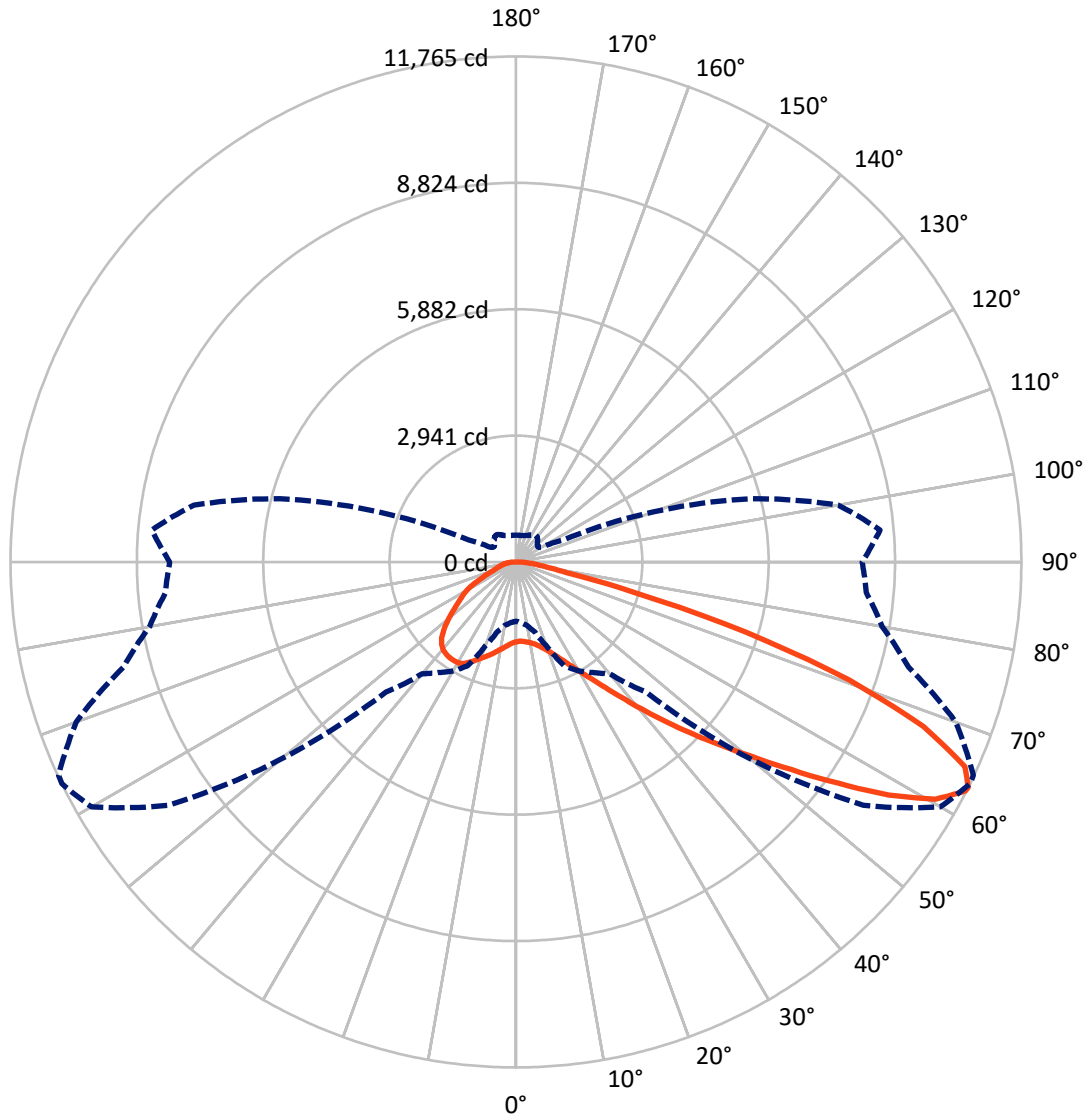
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc  
 Type II - Short - N/A

REPORT NUMBER: P257929  
CATALOG NUMBER: ARCH-L-AF72-130-D-U-T2U-7030

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P257929  
 CATALOG NUMBER: ARCH-L-AF72-130-D-U-T2U-7030

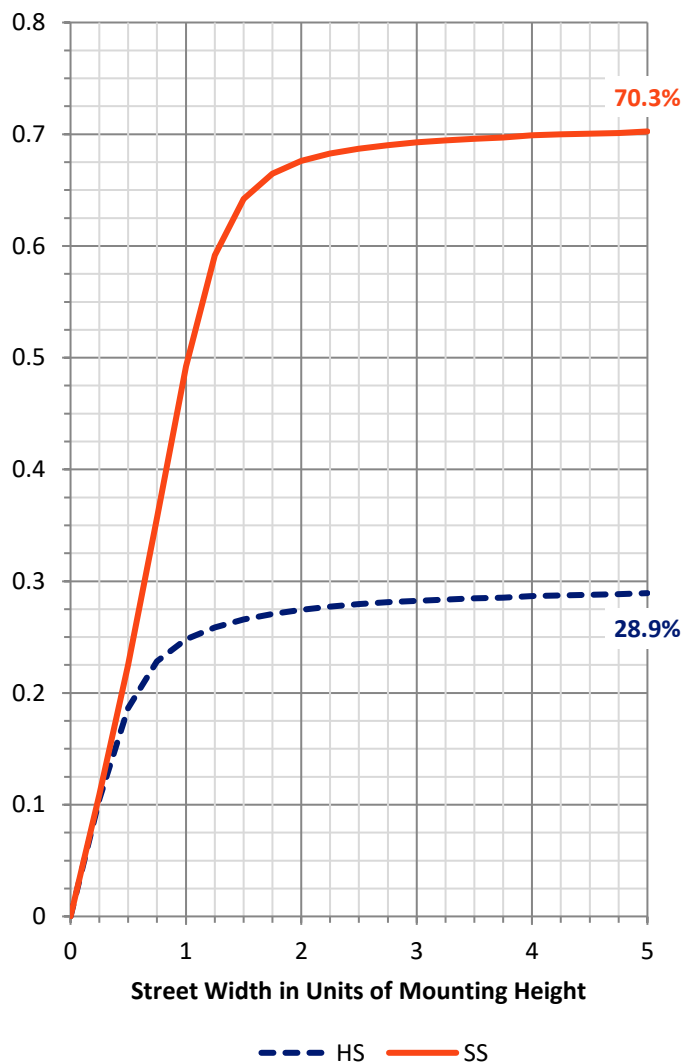
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5039.4	0.0	5039.4
	% Fixture	29.4	0.0	29.4
<b>Street Side</b>	Lumens	12103.4	0.0	12103.4
	% Fixture	70.6	0.0	70.6
<b>Total</b>	Lumens	17142.8	0.0	17142.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	185.4	1.1
10°-20°	617.4	3.6
20°-30°	1158.9	6.8
30°-40°	1942.5	11.3
40°-50°	3259.1	19.0
50°-60°	4131.5	24.1
60°-70°	3644.6	21.3
70°-80°	1881.4	11.0
80°-90°	321.9	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°	17142.8	100.0
0°-180°	17142.8	100.0

**Coefficient of Utilization**

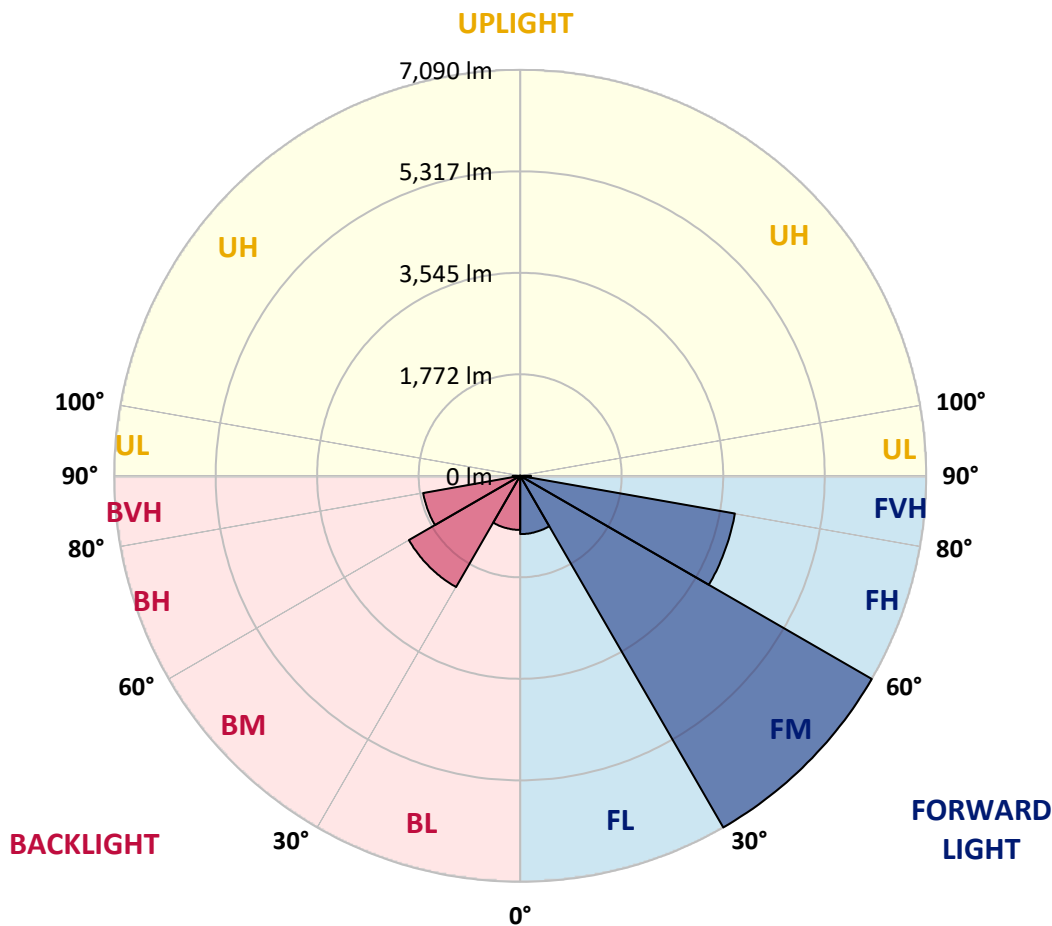


REPORT NUMBER: P257929  
 CATALOG NUMBER: ARCH-L-AF72-130-D-U-T2U-7030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1017.5	5.9			
FM (30°-60°)	7089.8	41.4			
FH (60°-80°)	3806.7	22.2			G2/5000
FVH (80°-90°)	189.5	1.1			G2/225
BL (0°-30°)	944.2	5.5	B2/1000		
BM (30°-60°)	2243.3	13.1	B2/2500		
BH (60°-80°)	1719.4	10.0	B3/2500		G3/2500
BVH (80°-90°)	132.5	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: P257929

CATALOG NUMBER: ARCH-L-AF72-130-D-U-T2U-7030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6
2.5°	1845.1	1842.2	1842.2	1842.2	1842.2	1839.4	1842.2	1847.9	1845.1	1842.2	1847.9
5°	1850.9	1847.9	1847.9	1847.9	1850.9	1847.9	1850.9	1859.4	1853.7	1853.7	1859.4
7.5°	1865.2	1862.4	1865.2	1862.4	1862.4	1862.4	1865.2	1873.8	1870.9	1873.8	1882.4
10°	1882.4	1882.4	1882.4	1882.4	1882.4	1882.4	1888.1	1893.9	1896.7	1899.6	1911.1
12.5°	1934.0	1934.0	1934.0	1931.1	1931.1	1922.5	1934.0	1939.8	1945.5	1951.3	1959.9
15°	2043.0	2043.0	2040.2	2028.7	2028.7	2011.5	2014.4	2017.3	2017.3	2022.9	2028.7
17.5°	2186.5	2183.6	2178.0	2169.4	2157.9	2137.7	2131.9	2126.3	2117.7	2114.8	2114.8
20°	2387.5	2384.6	2373.1	2350.0	2335.8	2304.2	2281.3	2258.3	2249.6	2235.3	2232.5
22.5°	2674.3	2674.3	2651.4	2617.0	2605.5	2539.5	2473.5	2424.7	2407.5	2387.5	2387.5
25°	3021.6	3018.8	2987.1	2946.9	2898.2	2829.3	2749.0	2683.0	2639.9	2594.1	2576.8
27.5°	3437.7	3429.0	3386.0	3337.3	3245.4	3159.3	3064.6	2995.8	2921.1	2863.8	2812.2
30°	3925.4	3916.8	3842.2	3750.5	3655.7	3569.6	3432.0	3348.7	3231.1	3162.2	3104.8
32.5°	4490.8	4482.2	4347.3	4258.3	4157.9	4051.7	3888.1	3756.2	3606.9	3509.4	3429.0
35°	5211.0	5176.6	4984.3	4861.0	4703.1	4596.9	4424.8	4246.8	4071.8	3934.1	3816.4
37.5°	5988.6	5948.4	5779.2	5595.5	5440.6	5311.4	5067.6	4843.7	4637.1	4447.7	4301.3
40°	6800.7	6694.6	6513.7	6378.9	6272.7	6149.3	5893.9	5658.6	5334.4	5122.1	4901.1
42.5°	7363.1	7259.8	7133.5	7044.6	6992.9	6898.2	6754.7	6551.0	6261.2	6267.0	5684.4
45°	7733.3	7581.2	7495.0	7500.8	7520.9	7520.9	7495.0	7463.5	7337.3	7423.4	6935.6
47.5°	7601.2	7500.8	7446.3	7561.1	7704.5	7848.0	8014.5	8195.2	8401.8	8645.8	8046.1
50°	6826.5	6863.7	6889.7	7133.5	7440.5	7767.7	8149.3	8642.9	9219.7	9331.5	9041.8
52.5°	5589.7	5670.1	5756.3	6129.2	6533.8	7099.1	7767.7	8582.7	9357.4	9813.6	9784.9
55°	4341.5	4441.9	4625.6	4904.0	5225.4	5759.0	6585.5	7842.3	9050.4	9776.3	10218.3
57.5°	3090.4	3236.8	3477.8	3865.1	4149.2	4450.5	5061.8	6456.3	7779.2	9130.7	10146.5
60°	2054.5	2123.5	2281.3	2763.2	3242.5	3558.1	3991.5	4496.4	5578.2	7440.5	9406.1
62.5°	1457.7	1503.6	1601.2	1819.2	2252.6	2823.6	3084.7	3317.1	3664.3	4786.3	7552.4
63°	1377.3	1417.5	1497.8	1681.5	2071.8	2662.8	2929.8	3142.1	3394.5	4281.3	7145.0
65°	1142.1	1159.2	1202.3	1291.2	1500.7	1991.5	2427.6	2556.6	2599.8	2751.8	4476.4
67.5°	964.1	975.5	990.0	1015.8	1099.0	1325.8	1810.7	1974.2	1925.4	1822.1	2212.4
70°	837.9	846.5	869.4	901.1	929.7	987.0	1245.3	1489.3	1434.8	1294.1	1354.4
72.5°	668.5	683.0	708.8	763.2	820.6	895.3	958.4	1110.5	1076.1	941.2	955.6
75°	527.9	536.6	559.5	599.8	654.3	740.3	863.7	915.4	820.6	694.5	694.5
77.5°	418.9	427.5	447.6	479.2	513.6	573.9	660.0	794.9	737.5	522.3	519.4
80°	315.6	324.3	344.3	373.0	407.4	450.4	502.1	562.4	677.2	487.9	390.3
82.5°	232.4	235.4	269.8	289.9	301.3	335.8	378.8	413.2	464.9	450.4	347.2
85°	175.1	172.2	195.1	209.4	212.3	220.9	246.8	281.3	304.2	292.7	269.8
87.5°	97.6	86.1	100.4	114.8	114.8	117.7	123.4	143.4	163.6	157.8	143.4
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: P257929

CATALOG NUMBER: ARCH-L-AF72-130-D-U-T2U-7030

**CANDELA DISTRIBUTION (continued):**

	55°	60°	64°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6
2.5°	1847.9	1847.9	1845.1	1845.1	1847.9	1847.9	1845.1	1853.7	1859.4	1859.4	1862.4
5°	1856.6	1859.4	1856.6	1856.6	1859.4	1859.4	1862.4	1870.9	1879.5	1885.3	1893.9
7.5°	1882.4	1885.3	1882.4	1882.4	1885.3	1888.1	1893.9	1905.4	1911.1	1922.5	1936.9
10°	1911.1	1913.9	1911.1	1913.9	1916.9	1919.6	1928.3	1936.9	1945.5	1957.0	1980.0
12.5°	1962.8	1965.6	1959.9	1962.8	1971.4	1971.4	1977.0	1982.8	1997.2	2011.5	2034.5
15°	2034.5	2034.5	2028.7	2031.5	2040.2	2040.2	2043.0	2048.8	2066.0	2083.2	2106.2
17.5°	2117.7	2123.5	2120.5	2123.5	2129.1	2131.9	2131.9	2137.7	2149.2	2160.7	2183.6
20°	2229.6	2232.5	2226.7	2232.5	2238.1	2232.5	2226.7	2223.9	2229.6	2235.3	2261.1
22.5°	2381.7	2378.8	2364.5	2364.5	2364.5	2353.0	2338.5	2321.4	2321.4	2312.8	2332.9
25°	2562.4	2553.8	2533.7	2536.7	2516.6	2499.3	2473.5	2447.6	2424.7	2416.2	2419.0
27.5°	2774.7	2757.6	2737.5	2731.7	2711.7	2680.1	2637.1	2588.3	2550.9	2522.2	2516.6
30°	3041.7	3004.3	2969.8	2964.2	2932.6	2880.9	2812.2	2746.1	2683.0	2634.1	2617.0
32.5°	3357.3	3299.9	3245.4	3239.6	3187.9	3119.2	3035.9	2944.1	2852.2	2774.7	2737.5
35°	3727.5	3641.4	3589.7	3575.4	3500.7	3414.7	3322.9	3205.2	3076.0	2967.1	2898.2
37.5°	4178.0	4089.0	4000.1	4002.9	3899.7	3799.2	3675.8	3532.4	3368.8	3216.7	3119.2
40°	4734.6	4608.3	4493.7	4467.8	4378.8	4238.2	4103.3	3936.9	3736.1	3535.2	3394.5
42.5°	5409.0	5202.4	5044.5	5021.5	4904.0	4731.8	4568.2	4347.3	4143.5	3899.7	3730.3
45°	6175.2	5845.2	5655.8	5621.3	5432.0	5256.9	5058.9	4823.6	4573.9	4298.5	4097.7
47.5°	7127.7	6657.1	6335.8	6278.5	6017.4	5787.8	5581.2	5320.1	5021.5	4714.5	4493.7
50°	8238.2	7544.0	7110.6	7021.6	6671.6	6401.8	6137.8	5810.7	5492.3	5170.8	4915.5
52.5°	9351.6	8605.6	8028.8	7919.7	7403.3	7041.8	6694.6	6367.4	5991.4	5673.0	5383.2
55°	10246.9	9750.6	9081.9	8929.9	8189.5	7698.9	7242.6	6869.5	6496.5	6243.9	5902.5
57.5°	10786.4	10760.6	10232.5	10023.1	9010.2	8284.1	7776.3	7351.6	6990.1	6883.9	6430.6
60°	10772.1	11440.6	11214.0	11056.2	9839.5	8883.9	8224.0	7764.8	7466.4	7587.0	6961.4
62.5°	10114.9	11469.3	11741.9	11698.9	10723.2	9366.0	8591.3	8117.8	7960.0	8318.7	7512.3
63°	9876.7	11403.3	11764.9	11747.7	10892.6	9457.8	8654.3	8186.7	8057.6	8505.2	7612.7
65°	8347.3	10826.6	11486.5	11564.0	11257.0	9773.5	8800.8	8361.7	8347.3	8921.2	7851.0
67.5°	5087.5	9147.9	10232.5	10381.9	10743.4	9873.9	8717.5	8301.4	8508.0	8981.4	7779.2
70°	2175.1	6037.3	8224.0	8465.0	9348.8	9374.6	8479.3	8054.6	8470.8	8510.9	7268.4
72.5°	1288.3	2846.5	5598.3	6123.4	7397.5	8066.1	7934.1	7624.2	7980.1	7475.0	6189.4
75°	912.6	1331.5	2843.7	3403.2	5150.7	6158.0	6665.8	6809.2	6795.0	5928.3	4645.7
77.5°	654.3	855.1	1199.4	1414.7	2875.2	3954.2	4573.9	4992.9	4858.0	3968.6	2863.8
80°	456.2	591.1	734.6	780.5	1334.3	2031.5	2410.4	2594.1	2513.6	1982.8	1282.7
82.5°	330.0	387.5	473.4	502.1	671.5	938.3	1116.2	984.2	944.1	731.7	553.8
85°	255.3	249.6	295.5	307.0	393.2	490.7	502.1	390.3	341.4	304.2	309.9
87.5°	180.9	154.9	157.8	163.6	203.8	261.1	255.3	160.7	137.7	146.3	166.4
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: P257929

CATALOG NUMBER: ARCH-L-AF72-130-D-U-T2U-7030

**CANDELA DISTRIBUTION (continued):**

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6	1856.6
2.5°	1868.0	1870.9	1876.6	1879.5	1885.3	1885.3	1891.0	1893.9	1899.6	1905.4	1908.2
5°	1902.4	1911.1	1922.5	1928.3	1939.8	1948.4	1959.9	1965.6	1977.0	1985.7	1997.2
7.5°	1954.1	1968.5	1982.8	2000.0	2017.3	2031.5	2043.0	2057.5	2077.4	2091.9	2100.5
10°	2002.9	2022.9	2048.8	2069.0	2094.7	2114.8	2131.9	2157.9	2180.9	2200.9	2212.4
12.5°	2066.0	2091.9	2117.7	2149.2	2183.6	2209.5	2235.3	2269.8	2301.3	2324.3	2335.8
15°	2140.6	2172.2	2200.9	2238.1	2278.4	2312.8	2350.0	2387.5	2410.4	2410.4	2404.6
17.5°	2218.1	2243.9	2278.4	2321.4	2376.0	2419.0	2439.1	2444.7	2436.2	2416.2	2401.7
20°	2295.5	2318.6	2355.8	2407.5	2464.9	2473.5	2453.4	2427.6	2401.7	2367.3	2344.3
22.5°	2358.7	2390.3	2447.6	2507.9	2510.8	2462.0	2407.5	2364.5	2324.3	2284.1	2241.0
25°	2433.3	2476.4	2553.8	2576.8	2502.1	2410.4	2332.9	2269.8	2203.8	2137.7	2089.0
27.5°	2525.1	2588.3	2665.7	2599.8	2453.4	2324.3	2218.1	2123.5	2037.3	1945.5	1891.0
30°	2622.7	2720.2	2737.5	2565.3	2370.2	2203.8	2060.3	1916.9	1807.8	1724.5	1693.0
32.5°	2740.3	2866.6	2763.2	2505.1	2258.3	2040.2	1847.9	1675.8	1583.9	1532.3	1517.9
35°	2918.4	3021.6	2777.7	2442.0	2129.1	1845.1	1604.0	1466.3	1408.9	1374.5	1357.2
37.5°	3173.7	3170.8	2774.7	2364.5	1980.0	1632.8	1408.9	1311.3	1265.4	1236.7	1205.1
40°	3472.0	3285.5	2757.6	2252.6	1779.1	1429.0	1274.1	1182.1	1139.1	1104.7	1067.5
42.5°	3767.6	3363.0	2708.7	2086.1	1529.4	1282.7	1176.5	1093.2	1047.4	1010.1	958.4
45°	4023.0	3394.5	2614.1	1856.6	1305.6	1167.9	1113.4	1041.6	987.0	929.7	889.6
47.5°	4223.9	3388.9	2462.0	1586.8	1156.4	1087.5	1061.7	1013.0	947.0	875.1	823.6
50°	4393.2	3345.8	2255.4	1348.7	1056.0	1015.8	1007.2	992.8	886.6	826.4	794.9
52.5°	4548.1	3282.7	2034.5	1187.9	969.9	935.5	952.6	938.3	863.7	812.1	780.5
55°	4760.4	3239.6	1816.4	1064.6	869.4	860.9	875.1	895.3	849.4	800.6	766.1
57.5°	5010.1	3262.6	1650.0	926.8	774.7	780.5	829.3	858.0	835.1	783.4	749.0
60°	5297.1	3331.5	1503.6	794.9	697.3	711.6	783.4	823.6	820.6	760.5	720.2
62.5°	5618.4	3403.2	1271.2	694.5	631.3	654.3	728.9	780.5	789.1	737.5	688.7
63°	5681.6	3409.0	1210.9	674.3	619.8	645.6	714.5	769.0	780.5	731.7	683.0
65°	5836.5	3357.3	975.5	619.8	573.9	602.6	671.5	720.2	743.2	700.2	660.0
67.5°	5707.3	2935.5	734.6	553.8	536.6	556.6	617.0	662.8	683.0	662.8	622.7
70°	5219.7	2134.9	573.9	493.6	496.5	510.8	556.6	599.8	622.7	617.0	579.6
72.5°	4203.8	1210.9	479.2	442.0	450.4	467.7	499.4	539.4	559.5	556.6	530.9
75°	2769.0	619.8	404.6	395.9	401.7	416.1	439.0	470.6	493.6	490.7	479.2
77.5°	1371.6	430.4	347.2	350.0	352.9	364.4	381.7	410.4	424.7	427.5	424.7
80°	565.3	335.8	298.4	301.3	304.2	312.8	324.3	350.0	358.7	364.4	367.3
82.5°	338.6	255.3	238.1	243.8	246.8	255.3	264.0	287.0	295.5	304.2	304.2
85°	223.9	177.9	172.2	177.9	183.7	189.3	192.3	206.6	220.9	232.4	238.1
87.5°	120.5	106.2	103.2	106.2	106.2	111.9	117.7	131.9	149.2	160.7	166.4
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: P257929

CATALOG NUMBER: ARCH-L-AF72-130-D-U-T2U-7030

**CANDELA DISTRIBUTION (continued):**

	160°	165°	170°	175°	180°
0°	1856.6	1856.6	1856.6	1856.6	1856.6
2.5°	1902.4	1905.4	1902.4	1905.4	1908.2
5°	1997.2	2002.9	2000.0	2000.0	2011.5
7.5°	2106.2	2117.7	2117.7	2123.5	2129.1
10°	2223.9	2235.3	2243.9	2243.9	2252.6
12.5°	2341.5	2347.2	2355.8	2355.8	2355.8
15°	2401.7	2398.9	2396.0	2393.1	2393.1
17.5°	2393.1	2381.7	2376.0	2370.2	2373.1
20°	2330.1	2310.0	2304.2	2295.5	2301.3
22.5°	2221.0	2192.3	2180.9	2166.5	2172.2
25°	2057.5	2022.9	2017.3	2000.0	2008.6
27.5°	1868.0	1850.9	1847.9	1845.1	1859.4
30°	1690.1	1695.8	1698.8	1704.5	1718.8
32.5°	1526.6	1538.1	1540.9	1543.9	1563.8
35°	1365.8	1351.5	1365.8	1360.2	1377.3
37.5°	1190.8	1179.4	1167.9	1153.6	1165.0
40°	1044.5	1024.5	990.0	972.7	975.5
42.5°	929.7	903.9	875.1	858.0	858.0
45°	855.1	823.6	797.7	786.2	786.2
47.5°	797.7	783.4	769.0	760.5	760.5
50°	774.7	757.5	749.0	743.2	743.2
52.5°	757.5	740.3	731.7	726.0	720.2
55°	743.2	717.4	708.8	706.0	706.0
57.5°	723.1	700.2	688.7	685.8	685.8
60°	691.5	674.3	662.8	660.0	660.0
62.5°	660.0	642.8	631.3	631.3	631.3
63°	654.3	634.1	625.5	625.5	625.5
65°	628.5	608.3	599.8	599.8	596.9
67.5°	594.0	573.9	568.1	568.1	562.4
70°	553.8	536.6	530.9	533.7	522.3
72.5°	513.6	496.5	487.9	487.9	476.4
75°	467.7	450.4	439.0	436.2	424.7
77.5°	416.1	401.7	390.3	378.8	373.0
80°	361.5	350.0	335.8	327.1	318.5
82.5°	304.2	292.7	284.1	295.5	252.5
85°	238.1	226.7	215.2	232.4	180.9
87.5°	175.1	169.4	157.8	137.7	120.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)