

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: P257933

Luminaire Tested: **ARCH-L-AF72-170-D-U-T2U-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P257933
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-AF72-170-D-U-T2U-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21194.1 lumens
Efficiency: N/A
Efficacy: 122.5 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

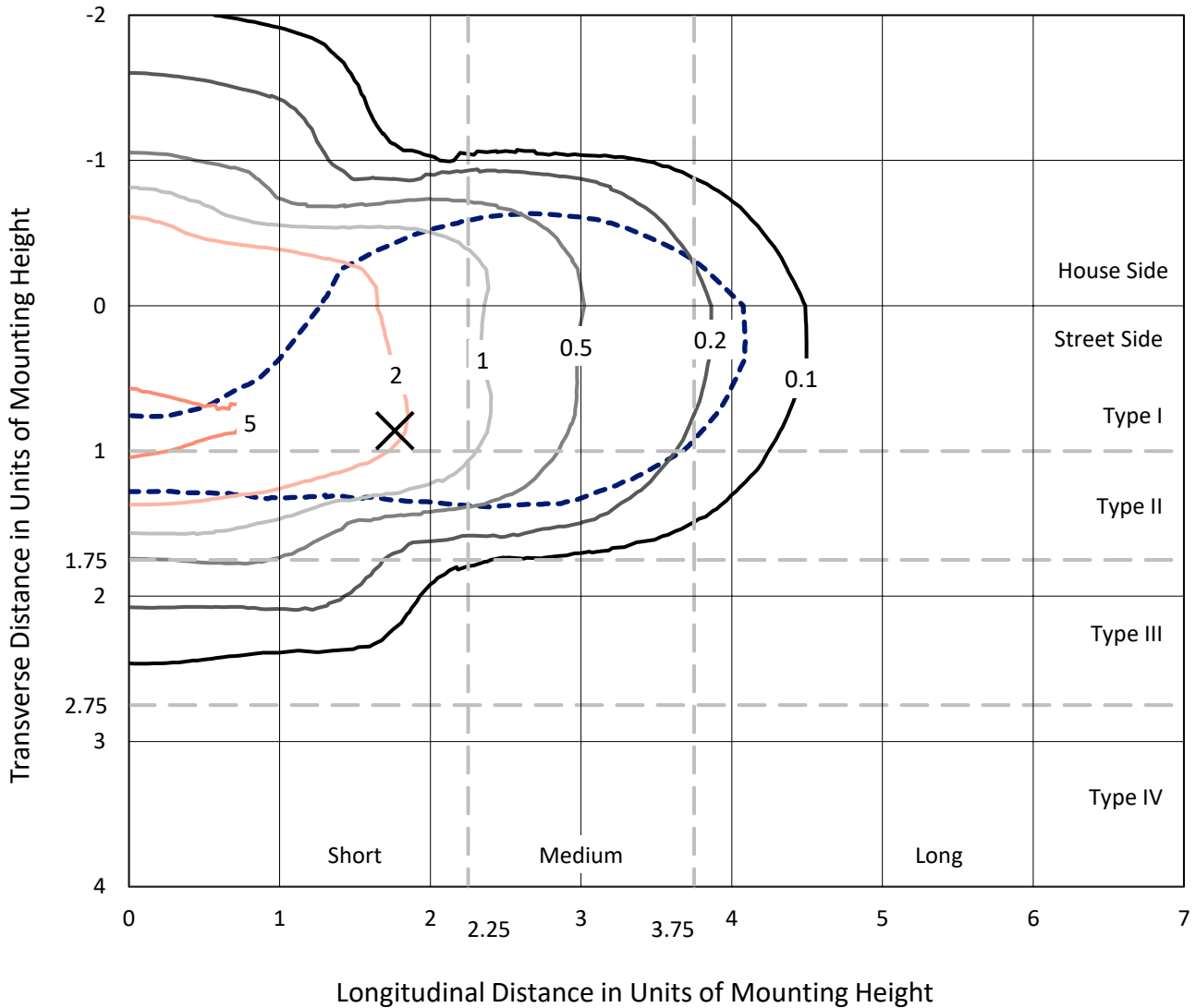
Input Watts (W): 173
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: ARCH-L-AF72-170-D-U-T2U-7030

Iso-Footcandle Lines of Horizontal Illumination

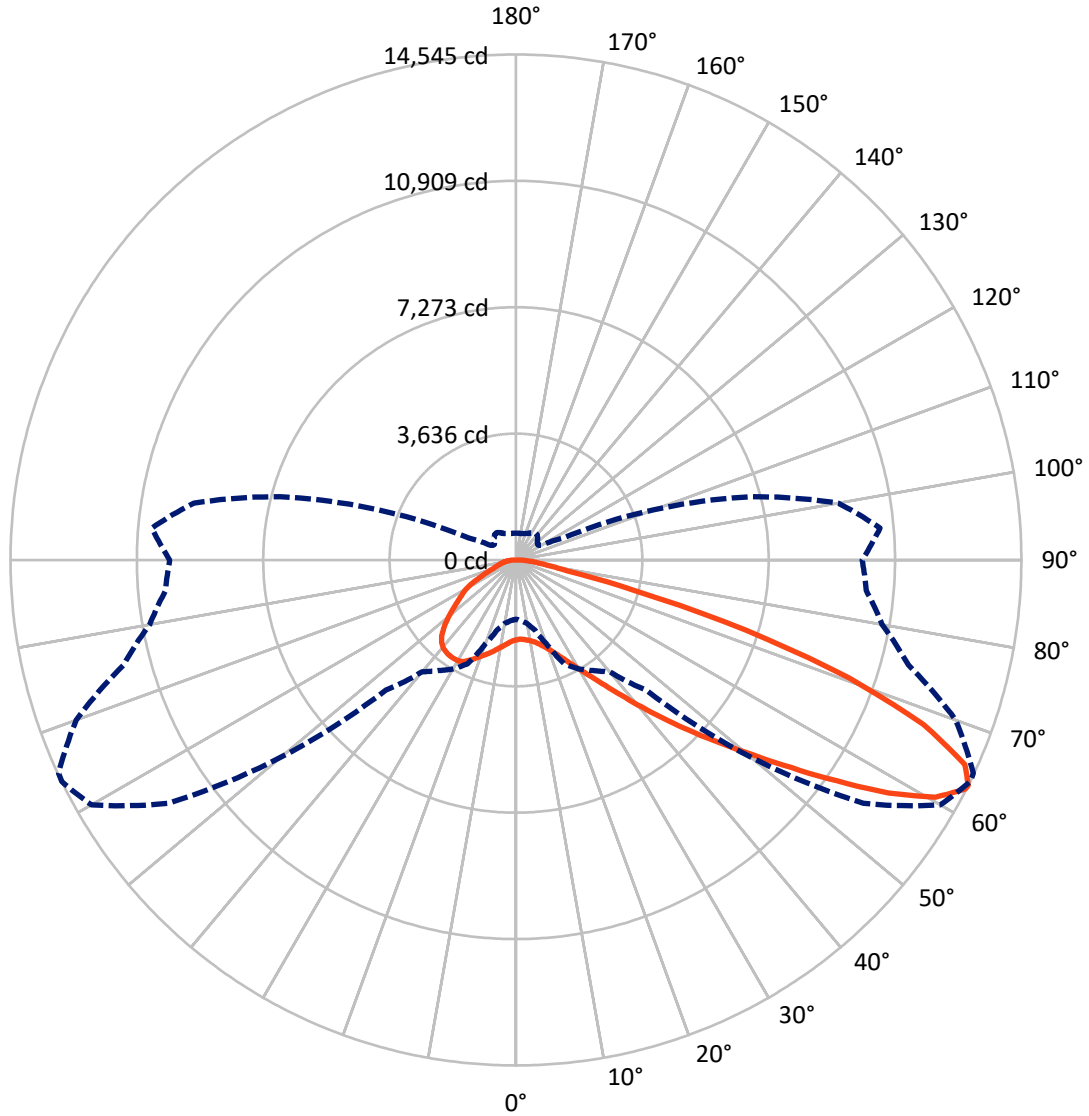
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Short - N/A

REPORT NUMBER: P257933
CATALOG NUMBER: ARCH-L-AF72-170-D-U-T2U-7030

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: ARCH-L-AF72-170-D-U-T2U-7030

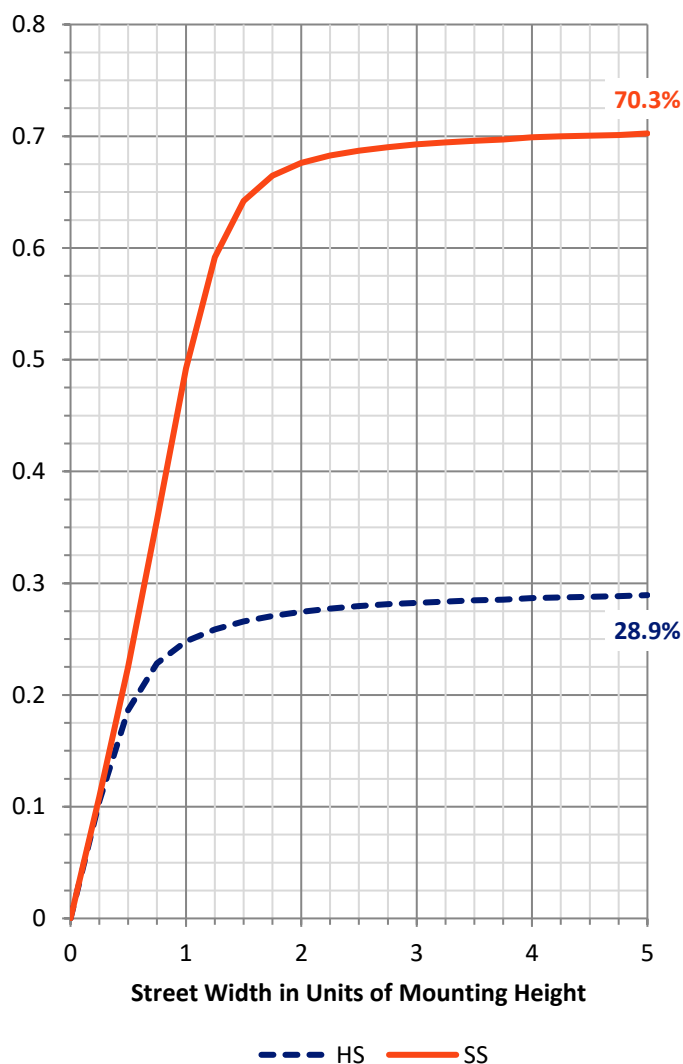
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6230.3	0.0	6230.3
	% Fixture	29.4	0.0	29.4
Street Side	Lumens	14963.8	0.0	14963.8
	% Fixture	70.6	0.0	70.6
Total	Lumens	21194.1	0.0	21194.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.2	1.1
10°-20°	763.3	3.6
20°-30°	1432.8	6.8
30°-40°	2401.6	11.3
40°-50°	4029.3	19.0
50°-60°	5107.9	24.1
60°-70°	4506.0	21.3
70°-80°	2326.1	11.0
80°-90°	398.0	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°	21194.1	100.0
0°-180°	21194.1	100.0

Coefficient of Utilization

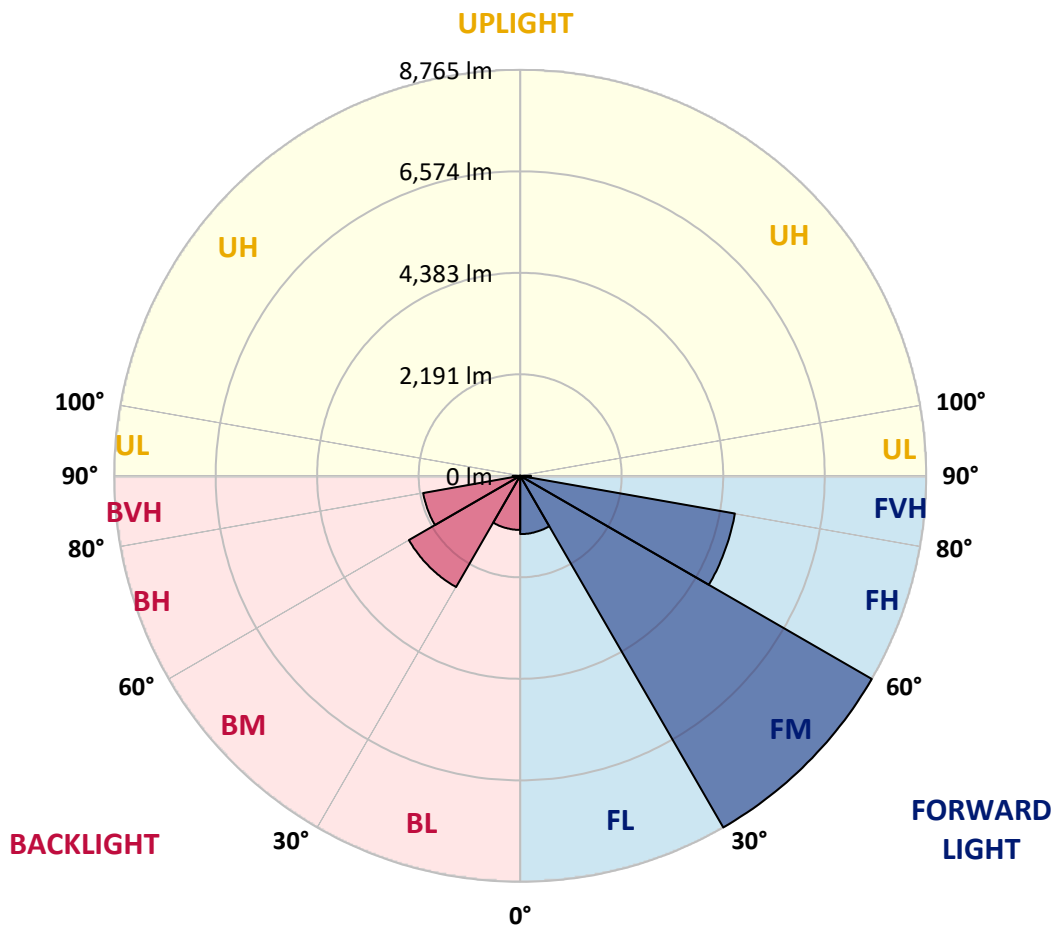


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 CATALOG NUMBER: ARCH-L-AF72-170-D-U-T2U-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1257.9	5.9			
FM (30°-60°)	8765.3	41.4			
FH (60°-80°)	4706.3	22.2			G2/5000
FVH (80°-90°)	234.2	1.1			G3/500
BL (0°-30°)	1167.4	5.5	B3/2500		
BM (30°-60°)	2773.4	13.1	B3/5000		
BH (60°-80°)	2125.7	10.0	B3/2500		G3/2500
BVH (80°-90°)	163.8	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: P257933

CATALOG NUMBER: ARCH-L-AF72-170-D-U-T2U-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2295.3	2295.3	2295.3	2295.3	2295.3	2295.3	2295.3	2295.3	2295.3	2295.3	2295.3
2.5°	2281.2	2277.6	2277.6	2277.6	2277.6	2274.0	2277.6	2284.7	2281.2	2277.6	2284.7
5°	2288.2	2284.7	2284.7	2284.7	2288.2	2284.7	2288.2	2298.9	2291.7	2291.7	2298.9
7.5°	2305.9	2302.4	2305.9	2302.4	2302.4	2302.4	2305.9	2316.7	2313.0	2316.7	2327.2
10°	2327.2	2327.2	2327.2	2327.2	2327.2	2327.2	2334.4	2341.4	2345.0	2348.5	2362.7
12.5°	2391.1	2391.1	2391.1	2387.6	2387.6	2376.9	2391.1	2398.2	2405.4	2412.3	2423.1
15°	2525.8	2525.8	2522.4	2508.1	2508.1	2486.8	2490.4	2494.0	2494.0	2501.1	2508.1
17.5°	2703.3	2699.8	2692.7	2682.0	2667.8	2643.0	2635.9	2628.8	2618.2	2614.6	2614.6
20°	2951.6	2948.1	2933.9	2905.5	2887.7	2848.7	2820.3	2792.0	2781.3	2763.6	2760.0
22.5°	3306.4	3306.4	3278.0	3235.3	3221.3	3139.7	3058.0	2997.7	2976.4	2951.6	2951.6
25°	3735.7	3732.1	3693.1	3643.4	3583.0	3497.9	3398.6	3317.0	3263.8	3207.1	3185.8
27.5°	4250.0	4239.4	4186.2	4125.8	4012.3	3905.9	3788.9	3703.7	3611.4	3540.5	3476.6
30°	4853.2	4842.5	4750.3	4636.8	4519.7	4413.2	4243.0	4140.1	3994.6	3909.6	3838.5
32.5°	5552.0	5541.4	5374.7	5264.6	5140.5	5009.2	4807.1	4643.8	4459.4	4338.8	4239.4
35°	6442.5	6399.9	6162.2	6009.7	5814.6	5683.3	5470.4	5250.5	5034.1	4863.7	4718.4
37.5°	7403.9	7354.2	7144.9	6917.9	6726.3	6566.7	6265.2	5988.4	5733.0	5498.8	5317.8
40°	8407.8	8276.6	8053.1	7886.4	7755.1	7602.6	7286.8	6995.9	6595.0	6332.5	6059.3
42.5°	9103.2	8975.5	8819.4	8709.4	8645.5	8528.4	8351.1	8099.3	7740.9	7748.0	7027.9
45°	9560.8	9372.8	9266.4	9273.5	9298.3	9298.3	9266.4	9227.4	9071.2	9177.7	8574.5
47.5°	9397.6	9273.5	9206.0	9348.0	9525.3	9702.8	9908.5	10132.0	10387.5	10689.0	9947.5
50°	8439.8	8485.9	8517.9	8819.4	9199.0	9603.5	10075.3	10685.4	11398.5	11536.9	11178.6
52.5°	6910.7	7010.1	7116.5	7577.6	8078.0	8776.8	9603.5	10610.9	11568.8	12132.9	12097.4
55°	5367.6	5491.7	5718.7	6062.9	6460.2	7120.1	8141.8	9695.6	11189.2	12086.8	12633.1
57.5°	3820.8	4001.7	4299.7	4778.7	5129.8	5502.4	6258.1	7982.2	9617.6	11288.5	12544.4
60°	2540.1	2625.3	2820.3	3416.3	4008.8	4399.1	4934.7	5559.1	6896.6	9199.0	11629.1
62.5°	1802.2	1858.9	1979.6	2249.2	2784.9	3490.9	3813.7	4101.0	4530.3	5917.5	9337.3
63°	1702.8	1752.5	1851.8	2078.8	2561.4	3292.2	3622.2	3884.6	4196.8	5293.1	8833.6
65°	1411.9	1433.3	1486.5	1596.4	1855.4	2462.0	3001.3	3161.0	3214.2	3402.3	5534.3
67.5°	1192.0	1206.2	1223.9	1255.8	1358.7	1639.0	2238.5	2440.8	2380.4	2252.7	2735.2
70°	1035.9	1046.6	1074.9	1114.0	1149.4	1220.4	1539.7	1841.2	1773.9	1600.0	1674.5
72.5°	826.5	844.3	876.3	943.7	1014.6	1106.9	1184.9	1373.0	1330.3	1163.6	1181.3
75°	652.8	663.4	691.8	741.5	808.8	915.3	1067.8	1131.7	1014.6	858.6	858.6
77.5°	518.0	528.6	553.4	592.4	635.1	709.5	815.9	982.7	911.8	645.7	642.1
80°	390.3	400.9	425.7	461.2	503.8	557.0	620.8	695.3	837.3	603.1	482.5
82.5°	287.4	290.9	333.5	358.3	372.5	415.0	468.2	510.9	574.7	557.0	429.3
85°	216.5	212.8	241.3	259.0	262.6	273.1	305.1	347.7	376.1	361.8	333.5
87.5°	120.6	106.4	124.1	141.9	141.9	145.5	152.5	177.3	202.2	195.1	177.3
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: P257933

CATALOG NUMBER: ARCH-L-AF72-170-D-U-T2U-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	64°	65°	70°	75°	80°	85°	90°	95°	100°
0°	2295.3	2295.3	2295.3	2295.3	2295.3	2295.3	2295.3	2295.3	2295.3	2295.3	2295.3
2.5°	2284.7	2284.7	2281.2	2281.2	2284.7	2284.7	2281.2	2291.7	2298.9	2298.9	2302.4
5°	2295.3	2298.9	2295.3	2295.3	2298.9	2298.9	2302.4	2313.0	2323.7	2330.8	2341.4
7.5°	2327.2	2330.8	2327.2	2327.2	2330.8	2334.4	2341.4	2355.6	2362.7	2376.9	2394.6
10°	2362.7	2366.2	2362.7	2366.2	2369.9	2373.3	2384.0	2394.6	2405.4	2419.4	2447.9
12.5°	2426.5	2430.2	2423.1	2426.5	2437.2	2437.2	2444.3	2451.4	2469.2	2486.8	2515.2
15°	2515.2	2515.2	2508.1	2511.8	2522.4	2522.4	2525.8	2532.9	2554.3	2575.6	2603.9
17.5°	2618.2	2625.3	2621.6	2625.3	2632.4	2635.9	2635.9	2643.0	2657.1	2671.4	2699.8
20°	2756.5	2760.0	2753.0	2760.0	2767.1	2760.0	2753.0	2749.4	2756.5	2763.6	2795.5
22.5°	2944.5	2940.9	2923.2	2923.2	2923.2	2909.0	2891.3	2870.0	2870.0	2859.5	2884.2
25°	3168.1	3157.4	3132.6	3136.1	3111.2	3090.0	3058.0	3026.2	2997.7	2987.1	2990.7
27.5°	3430.5	3409.2	3384.5	3377.3	3352.5	3313.5	3260.3	3199.9	3153.9	3118.4	3111.2
30°	3760.4	3714.4	3671.7	3664.7	3625.7	3561.9	3476.6	3395.1	3317.0	3256.7	3235.3
32.5°	4150.8	4079.7	4012.3	4005.2	3941.4	3856.3	3753.4	3639.9	3526.4	3430.5	3384.5
35°	4608.3	4501.9	4438.1	4420.3	4328.1	4221.7	4108.1	3962.8	3803.1	3668.3	3583.0
37.5°	5165.3	5055.3	4945.4	4948.9	4821.2	4697.0	4544.5	4367.1	4165.0	3976.9	3856.3
40°	5853.6	5697.5	5555.7	5523.6	5413.7	5239.8	5073.1	4867.4	4619.1	4370.7	4196.8
42.5°	6687.3	6431.9	6236.7	6208.3	6062.9	5850.1	5647.8	5374.7	5122.7	4821.2	4612.0
45°	7634.5	7226.5	6992.4	6949.8	6715.6	6499.3	6254.4	5963.6	5654.9	5314.4	5066.1
47.5°	8812.3	8230.5	7833.2	7762.3	7439.4	7155.6	6900.2	6577.3	6208.3	5828.8	5555.7
50°	10185.2	9326.7	8791.0	8681.0	8248.2	7914.7	7588.4	7183.9	6790.1	6392.9	6077.1
52.5°	11561.7	10639.3	9926.2	9791.5	9152.8	8705.9	8276.6	7872.1	7407.4	7013.7	6655.3
55°	12668.6	12054.8	11228.2	11040.2	10124.9	9518.2	8954.3	8493.0	8031.8	7719.6	7297.4
57.5°	13335.5	13303.6	12650.8	12391.8	11139.5	10242.0	9614.0	9089.1	8642.0	8510.8	7950.2
60°	13317.8	14144.3	13864.1	13669.0	12164.8	10983.4	10167.4	9599.8	9230.9	9379.9	8606.6
62.5°	12505.4	14179.8	14516.8	14463.6	13257.5	11579.4	10621.6	10036.2	9841.1	10284.6	9287.7
63°	12211.0	14098.3	14545.2	14524.0	13466.7	11692.9	10699.6	10121.3	9961.7	10515.1	9411.8
65°	10320.1	13385.3	14201.2	14296.9	13917.3	12083.2	10880.6	10337.8	10320.1	11029.6	9706.3
67.5°	6289.9	11309.9	12650.8	12835.3	13282.3	12207.4	10777.7	10263.3	10518.7	11104.0	9617.6
70°	2689.1	7464.1	10167.4	10465.5	11558.2	11590.1	10483.2	9958.2	10472.6	10522.2	8986.1
72.5°	1592.9	3519.2	6921.5	7570.7	9145.8	9972.4	9809.2	9426.1	9865.9	9241.5	7652.2
75°	1128.1	1646.1	3515.8	4207.5	6367.9	7613.1	8241.1	8418.5	8400.7	7329.4	5743.6
77.5°	808.8	1057.2	1482.8	1749.0	3554.7	4888.6	5654.9	6172.8	6006.1	4906.4	3540.5
80°	564.1	730.8	908.2	965.0	1649.6	2511.8	2980.0	3207.1	3107.8	2451.4	1585.8
82.5°	408.0	478.9	585.4	620.8	830.2	1160.2	1380.1	1216.8	1167.2	904.6	684.7
85°	315.8	308.6	365.4	379.5	485.9	606.6	620.8	482.5	422.2	376.1	383.2
87.5°	223.6	191.5	195.1	202.2	251.9	322.9	315.8	198.7	170.3	181.0	205.7
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: P257933

CATALOG NUMBER: ARCH-L-AF72-170-D-U-T2U-7030

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	2295.3	2295.3	2295.3	2295.3	2295.3	2295.3	2295.3	2295.3	2295.3	2295.3	2295.3
2.5°	2309.5	2313.0	2320.1	2323.7	2330.8	2330.8	2337.9	2341.4	2348.5	2355.6	2359.1
5°	2352.1	2362.7	2376.9	2384.0	2398.2	2408.8	2423.1	2430.2	2444.3	2454.9	2469.2
7.5°	2415.9	2433.6	2451.4	2472.6	2494.0	2511.8	2525.8	2543.7	2568.4	2586.1	2596.9
10°	2476.3	2501.1	2532.9	2557.9	2589.8	2614.6	2635.9	2667.8	2696.2	2721.0	2735.2
12.5°	2554.3	2586.1	2618.2	2657.1	2699.8	2731.7	2763.6	2806.3	2845.2	2873.6	2887.7
15°	2646.5	2685.6	2721.0	2767.1	2816.8	2859.5	2905.5	2951.6	2980.0	2980.0	2973.0
17.5°	2742.3	2774.2	2816.8	2870.0	2937.4	2990.7	3015.4	3022.5	3012.0	2987.1	2969.3
20°	2838.1	2866.5	2912.7	2976.4	3047.5	3058.0	3033.2	3001.3	2969.3	2926.8	2898.4
22.5°	2916.1	2955.1	3026.2	3100.7	3104.2	3043.9	2976.4	2923.2	2873.6	2824.0	2770.7
25°	3008.4	3061.6	3157.4	3185.8	3093.5	2980.0	2884.2	2806.3	2724.6	2643.0	2582.7
27.5°	3121.9	3199.9	3295.7	3214.2	3033.2	2873.6	2742.3	2625.3	2518.9	2405.4	2337.9
30°	3242.5	3363.1	3384.5	3171.6	2930.4	2724.6	2547.2	2369.9	2235.0	2132.0	2093.1
32.5°	3388.0	3544.1	3416.3	3097.1	2792.0	2522.4	2284.7	2071.8	1958.3	1894.4	1876.7
35°	3608.0	3735.7	3434.1	3019.1	2632.4	2281.2	1983.2	1812.8	1741.9	1699.3	1678.0
37.5°	3923.7	3920.1	3430.5	2923.2	2447.9	2018.6	1741.9	1621.3	1564.5	1529.0	1490.0
40°	4292.6	4062.0	3409.2	2784.9	2199.5	1766.7	1575.2	1461.7	1408.5	1365.8	1319.8
42.5°	4658.0	4157.9	3348.9	2579.2	1890.8	1585.8	1454.6	1351.6	1294.8	1248.8	1184.9
45°	4973.8	4196.8	3231.9	2295.3	1614.2	1443.9	1376.4	1287.8	1220.4	1149.4	1099.8
47.5°	5222.1	4189.8	3043.9	1961.9	1429.6	1344.6	1312.6	1252.3	1170.7	1082.0	1018.2
50°	5431.4	4136.5	2788.4	1667.4	1305.5	1255.8	1245.2	1227.5	1096.2	1021.7	982.7
52.5°	5623.0	4058.4	2515.2	1468.7	1199.1	1156.5	1177.9	1160.2	1067.8	1004.0	965.0
55°	5885.5	4005.2	2245.6	1316.1	1074.9	1064.3	1082.0	1106.9	1050.1	989.8	947.2
57.5°	6194.1	4033.7	2039.9	1145.9	957.8	965.0	1025.3	1060.7	1032.4	968.5	926.0
60°	6548.9	4118.7	1858.9	982.7	862.0	879.9	968.5	1018.2	1014.6	940.0	890.5
62.5°	6946.2	4207.5	1571.5	858.6	780.4	808.8	901.1	965.0	975.5	911.8	851.4
63°	7024.3	4214.5	1497.1	833.6	766.2	798.2	883.4	950.8	965.0	904.6	844.3
65°	7215.9	4150.8	1206.2	766.2	709.5	745.0	830.2	890.5	918.9	865.7	815.9
67.5°	7056.2	3629.3	908.2	684.7	663.4	688.3	762.7	819.6	844.3	819.6	769.8
70°	6453.2	2639.4	709.5	610.2	613.7	631.5	688.3	741.5	769.8	762.7	716.6
72.5°	5197.3	1497.1	592.4	546.3	557.0	578.3	617.4	666.9	691.8	688.3	656.3
75°	3423.4	766.2	500.2	489.6	496.7	514.4	542.8	581.8	610.2	606.6	592.4
77.5°	1695.8	532.1	429.3	432.7	436.4	450.5	471.8	507.3	525.1	528.6	525.1
80°	698.9	415.0	369.0	372.5	376.1	386.7	400.9	432.7	443.5	450.5	454.1
82.5°	418.6	315.8	294.5	301.5	305.1	315.8	326.3	354.8	365.4	376.1	376.1
85°	276.8	219.9	212.8	219.9	227.0	234.2	237.6	255.4	273.1	287.4	294.5
87.5°	149.0	131.2	127.8	131.2	131.2	138.3	145.5	163.3	184.4	198.7	205.7
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: P257933

CATALOG NUMBER: ARCH-L-AF72-170-D-U-T2U-7030

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	2295.3	2295.3	2295.3	2295.3	2295.3
2.5°	2352.1	2355.6	2352.1	2355.6	2359.1
5°	2469.2	2476.3	2472.6	2472.6	2486.8
7.5°	2603.9	2618.2	2618.2	2625.3	2632.4
10°	2749.4	2763.6	2774.2	2774.2	2784.9
12.5°	2894.9	2901.9	2912.7	2912.7	2912.7
15°	2969.3	2965.9	2962.2	2958.7	2958.7
17.5°	2958.7	2944.5	2937.4	2930.4	2933.9
20°	2880.6	2855.8	2848.7	2838.1	2845.2
22.5°	2745.9	2710.4	2696.2	2678.5	2685.6
25°	2543.7	2501.1	2494.0	2472.6	2483.4
27.5°	2309.5	2288.2	2284.7	2281.2	2298.9
30°	2089.6	2096.6	2100.2	2107.3	2125.0
32.5°	1887.4	1901.5	1905.1	1908.6	1933.5
35°	1688.7	1670.9	1688.7	1681.6	1702.8
37.5°	1472.3	1458.1	1443.9	1426.2	1440.4
40°	1291.3	1266.6	1223.9	1202.6	1206.2
42.5°	1149.4	1117.5	1082.0	1060.7	1060.7
45°	1057.2	1018.2	986.3	972.1	972.1
47.5°	986.3	968.5	950.8	940.0	940.0
50°	957.8	936.6	926.0	918.9	918.9
52.5°	936.6	915.3	904.6	897.6	890.5
55°	918.9	886.8	876.3	872.8	872.8
57.5°	894.0	865.7	851.4	847.9	847.9
60°	855.0	833.6	819.6	815.9	815.9
62.5°	815.9	794.7	780.4	780.4	780.4
63°	808.8	784.1	773.3	773.3	773.3
65°	777.0	752.1	741.5	741.5	737.9
67.5°	734.3	709.5	702.4	702.4	695.3
70°	684.7	663.4	656.3	659.8	645.7
72.5°	635.1	613.7	603.1	603.1	588.9
75°	578.3	557.0	542.8	539.2	525.1
77.5°	514.4	496.7	482.5	468.2	461.2
80°	447.0	432.7	415.0	404.5	393.8
82.5°	376.1	361.8	351.3	365.4	312.2
85°	294.5	280.2	266.0	287.4	223.6
87.5°	216.5	209.3	195.1	170.3	149.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)