

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: P836759

Luminaire Tested: **ARCH3-70-730-U-T2U**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836759
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-70-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11934 lumens
Efficiency: N/A
Efficacy: 163.3 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 73.1
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

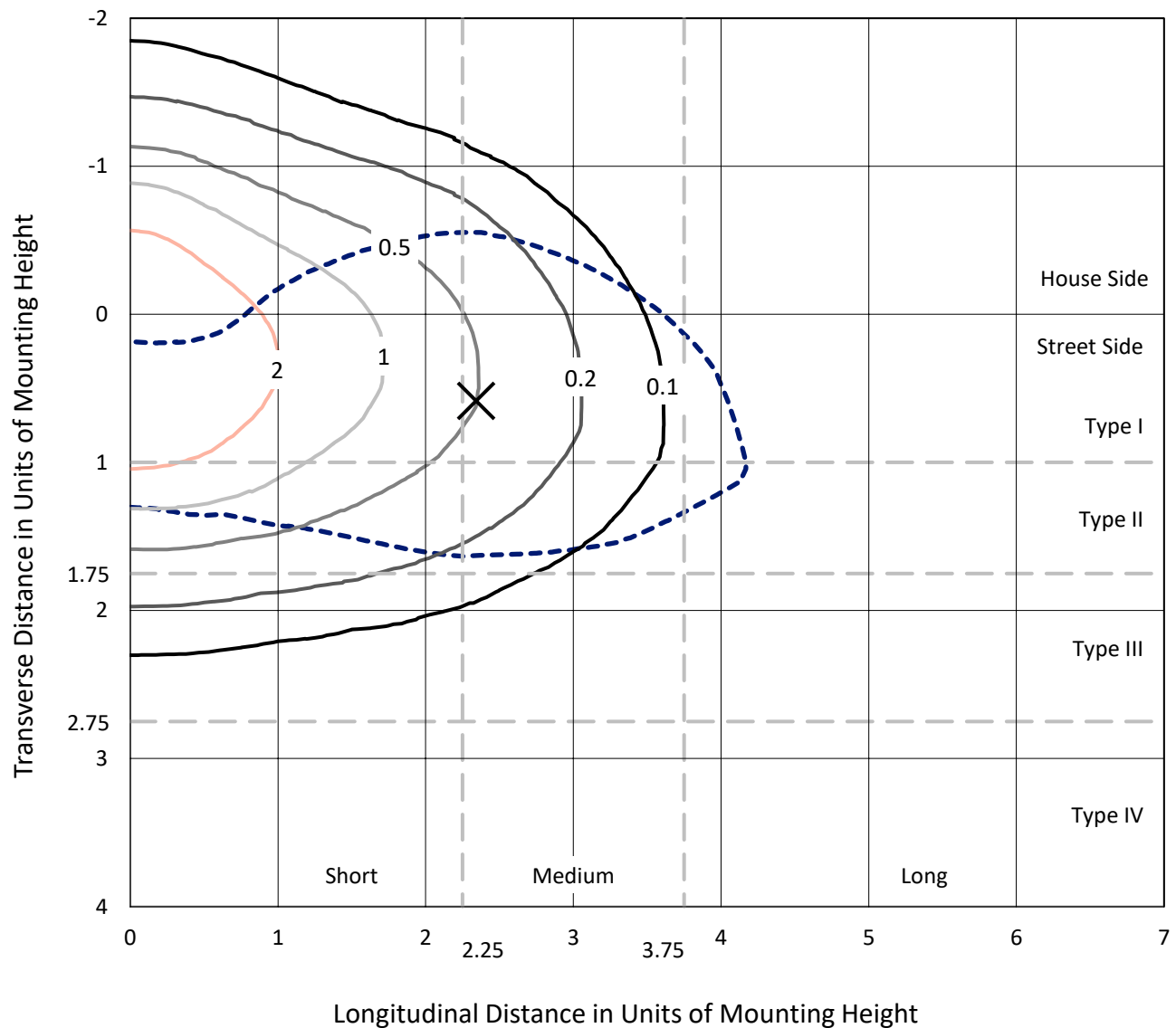


REPORT NUMBER: P836759

CATALOG NUMBER: ARCH3-70-730-U-T2U

Iso-Footcandle Lines of Horizontal Illumination

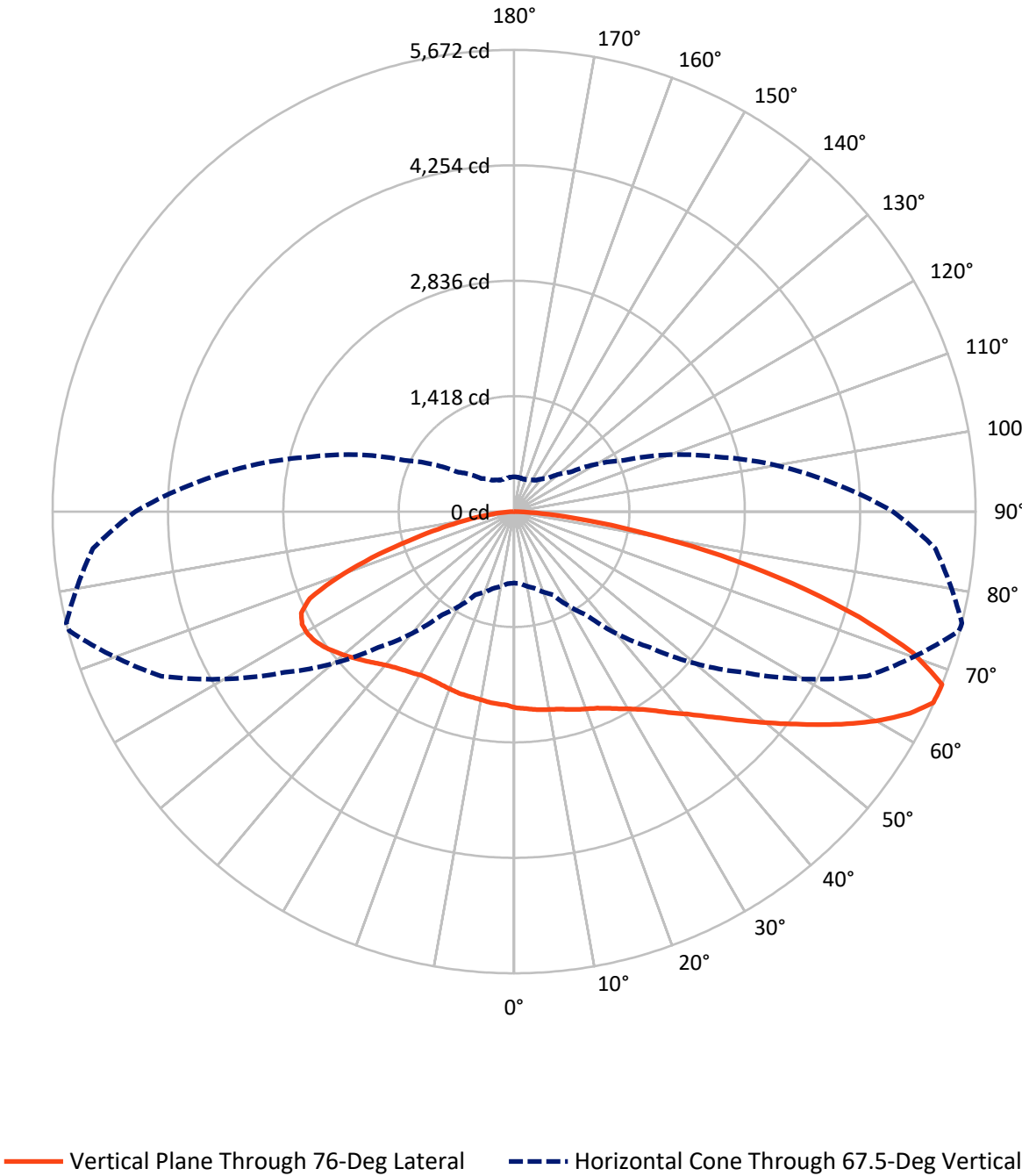
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
Type II - Medium - N/A

REPORT NUMBER: P836759
CATALOG NUMBER: ARCH3-70-730-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P836759

CATALOG NUMBER: ARCH3-70-730-U-T2U

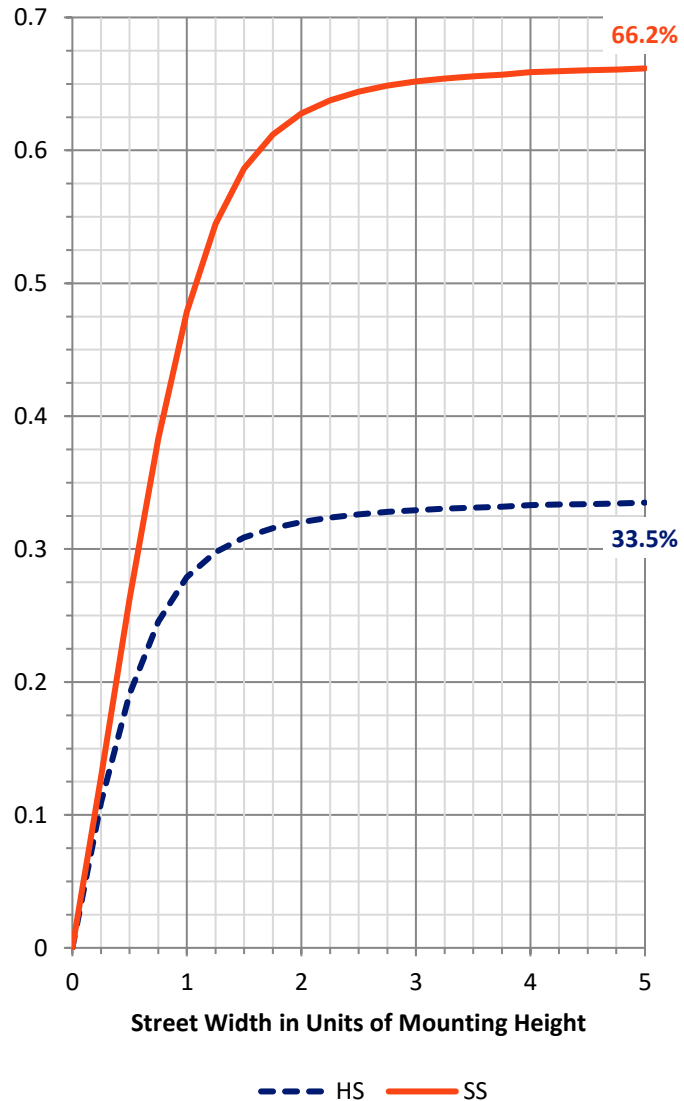
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4032.6	0.0	4032.6
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	7901.4	0.0	7901.4
	% Fixture	66.2	0.0	66.2
Total	Lumens	11934.0	0.0	11934.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.4	1.9
10°-20°	710.6	6.0
20°-30°	1207.4	10.1
30°-40°	1718.0	14.4
40°-50°	2169.8	18.2
50°-60°	2349.2	19.7
60°-70°	2185.0	18.3
70°-80°	1173.5	9.8
80°-90°	188.0	1.6
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°	11934.0	100.0
0°-180°	11934.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836759

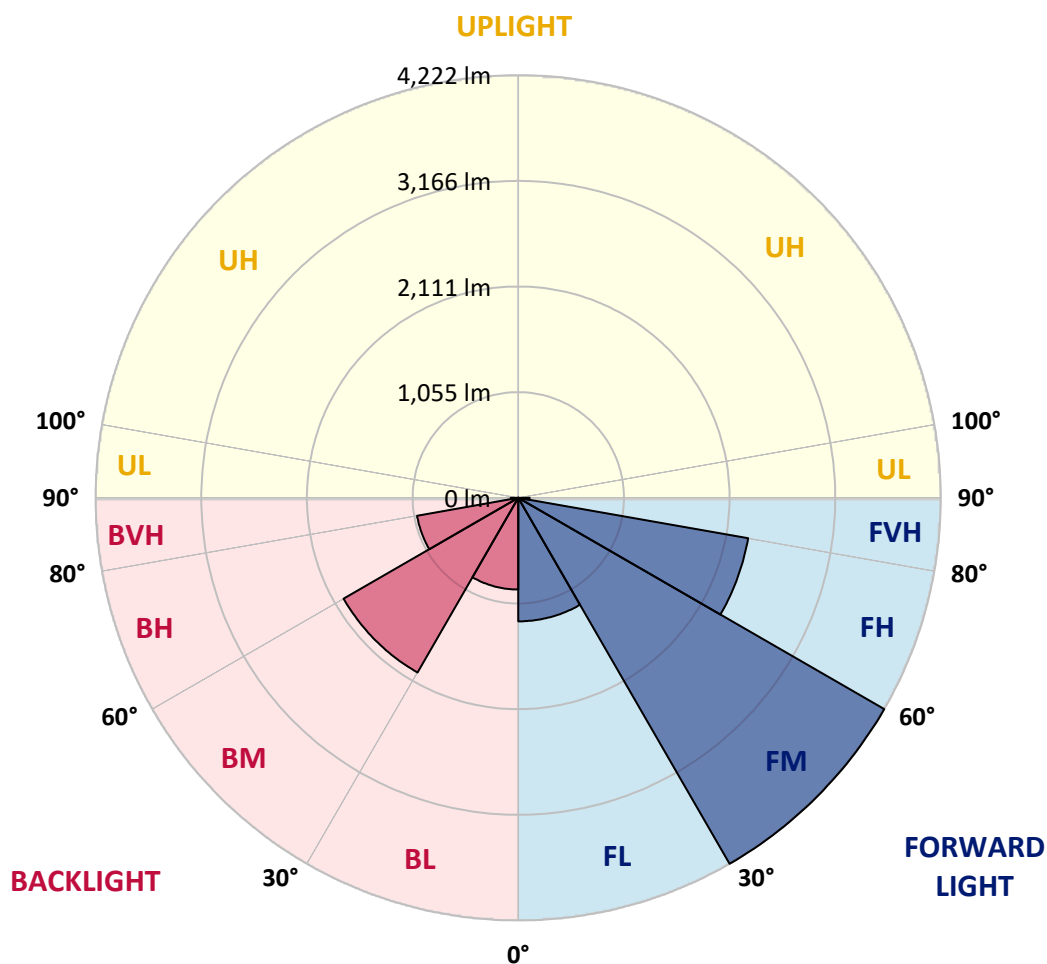
CATALOG NUMBER: ARCH3-70-730-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1234.1	10.3			
FM	(30°-60°)	4221.8	35.4			
FH	(60°-80°)	2331.8	19.5			G2/5000
FVH	(80°-90°)	113.7	1.0			G2/225
BL	(0°-30°)	916.4	7.7	B2/1000		
BM	(30°-60°)	2015.1	16.9	B2/2500		
BH	(60°-80°)	1026.7	8.6	B3/2500		G3/2500
BVH	(80°-90°)	74.3	0.6			G1/100
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 Medium



REPORT NUMBER: P836759

CATALOG NUMBER: ARCH3-70-730-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2410.6	2410.6	2410.6	2410.6	2410.6	2410.6	2410.6	2410.6	2410.6	2410.6	2410.6
2.5°	2483.8	2479.3	2461.6	2463.8	2463.8	2461.6	2435.0	2423.9	2423.9	2421.7	2397.3
5°	2572.4	2565.7	2545.8	2541.4	2532.5	2521.4	2479.3	2455.0	2443.9	2441.7	2408.4
7.5°	2676.5	2667.7	2643.3	2630.0	2607.8	2579.0	2525.9	2488.2	2461.6	2459.4	2412.9
10°	2780.7	2771.8	2743.0	2718.6	2687.6	2641.1	2572.4	2517.0	2474.9	2470.5	2415.1
12.5°	2904.7	2895.9	2860.4	2829.4	2782.9	2720.8	2630.0	2554.7	2497.1	2490.4	2421.7
15°	3035.5	3022.2	2986.7	2951.3	2893.7	2813.9	2705.3	2605.6	2532.5	2521.4	2441.7
17.5°	3144.0	3126.3	3097.5	3062.0	2997.8	2904.7	2780.7	2656.6	2565.7	2556.9	2461.6
20°	3237.1	3223.8	3192.8	3159.5	3090.9	2988.9	2851.6	2707.5	2596.8	2585.7	2477.1
22.5°	3325.7	3308.0	3290.3	3265.9	3190.6	3077.6	2933.5	2769.6	2636.6	2623.3	2497.1
25°	3427.6	3407.7	3401.0	3387.7	3299.1	3183.9	3033.2	2847.1	2692.0	2676.5	2532.5
27.5°	3553.9	3531.8	3518.5	3518.5	3412.1	3292.5	3139.6	2938.0	2756.3	2743.0	2576.8
30°	3686.9	3660.3	3640.3	3640.3	3520.7	3401.0	3243.7	3028.8	2829.4	2813.9	2634.4
32.5°	3804.3	3777.7	3755.5	3753.3	3629.3	3509.6	3352.3	3128.5	2918.0	2898.1	2705.3
35°	3895.1	3870.8	3850.8	3855.3	3737.8	3620.4	3474.2	3261.5	3028.8	3006.7	2798.4
37.5°	3950.5	3941.7	3930.6	3946.1	3837.5	3726.7	3600.5	3390.0	3155.1	3135.2	2913.6
40°	3979.3	3972.7	4017.0	4036.9	3921.7	3822.0	3726.7	3522.9	3292.5	3270.3	3046.5
42.5°	4021.4	4076.8	4094.5	4090.1	3983.8	3895.1	3842.0	3666.9	3454.2	3434.3	3206.1
45°	3870.8	3857.5	3955.0	4008.1	3988.2	3941.7	3950.5	3839.7	3642.6	3622.6	3390.0
47.5°	3669.1	3651.4	3706.8	3837.5	3915.1	3959.4	4048.0	4019.2	3859.7	3842.0	3604.9
50°	3243.7	3268.1	3474.2	3649.2	3802.1	3955.0	4130.0	4212.0	4099.0	4081.3	3835.3
52.5°	2771.8	2796.2	3011.1	3414.3	3664.7	3921.7	4189.8	4404.7	4358.2	4338.3	4081.3
55°	2428.4	2481.5	2725.3	3017.7	3469.7	3817.6	4225.3	4601.9	4637.4	4619.7	4349.3
57.5°	2087.2	2127.0	2310.9	2570.2	3203.8	3635.9	4223.1	4785.8	4929.9	4912.1	4621.9
60°	1686.1	1737.1	1883.3	2162.5	2849.3	3418.8	4161.0	4929.9	5211.2	5197.9	4885.5
62.5°	1411.4	1426.9	1531.0	1772.5	2392.9	3144.0	4021.4	5007.4	5466.0	5457.2	5122.6
65°	1136.6	1138.9	1234.1	1435.7	1952.0	2802.8	3784.4	4978.6	5658.8	5663.2	5293.2
67.5°	877.4	888.5	974.9	1127.8	1551.0	2359.7	3445.4	4783.6	5661.0	5672.1	5195.7
70°	607.1	616.0	746.7	895.1	1198.7	1881.1	2986.7	4267.4	5195.7	5204.6	4657.3
72.5°	427.6	432.1	571.6	715.7	937.2	1418.0	2253.3	3529.6	4429.1	4435.8	3917.3
75°	319.1	323.5	403.3	542.8	717.9	981.5	1539.9	2703.1	3538.4	3538.4	3093.1
77.5°	226.0	228.2	261.4	374.4	478.6	662.5	926.1	1770.3	2596.8	2601.2	2253.3
80°	152.9	155.1	170.6	252.6	299.1	358.9	503.0	928.4	1637.4	1644.0	1431.3
82.5°	79.8	84.2	95.3	128.5	150.7	199.4	259.2	471.9	906.2	923.9	859.7
85°	31.0	31.0	35.5	42.1	55.4	77.5	119.6	179.5	409.9	423.2	378.9
87.5°	11.1	11.1	13.3	13.3	15.5	17.7	19.9	26.6	46.5	46.5	44.3
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: P836759

CATALOG NUMBER: ARCH3-70-730-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2410.6	2410.6	2410.6	2410.6	2410.6	2410.6	2410.6	2410.6	2410.6	2410.6	2410.6
2.5°	2388.5	2388.5	2377.4	2381.8	2379.6	2375.2	2370.8	2377.4	2370.8	2355.3	2353.0
5°	2392.9	2388.5	2370.8	2368.5	2361.9	2353.0	2342.0	2346.4	2335.3	2322.0	2319.8
7.5°	2395.1	2386.3	2361.9	2353.0	2339.7	2322.0	2304.3	2304.3	2288.8	2275.5	2273.3
10°	2390.7	2379.6	2346.4	2328.7	2304.3	2277.7	2253.3	2246.7	2229.0	2213.4	2213.4
12.5°	2392.9	2377.4	2335.3	2306.5	2273.3	2240.0	2209.0	2200.2	2184.6	2169.1	2166.9
15°	2406.2	2384.1	2330.9	2293.2	2244.5	2206.8	2173.6	2166.9	2153.6	2142.5	2142.5
17.5°	2419.5	2390.7	2324.2	2271.1	2211.2	2169.1	2138.1	2138.1	2129.3	2122.6	2122.6
20°	2426.2	2392.9	2310.9	2240.0	2171.4	2127.0	2098.2	2102.7	2100.4	2098.2	2098.2
22.5°	2441.7	2397.3	2299.9	2211.2	2129.3	2082.7	2056.1	2062.8	2060.6	2060.6	2062.8
25°	2466.0	2408.4	2291.0	2184.6	2089.4	2038.4	2009.6	2014.0	2014.0	2014.0	2014.0
27.5°	2499.3	2430.6	2288.8	2160.3	2049.5	1991.9	1956.4	1956.4	1947.6	1949.8	1952.0
30°	2550.2	2472.7	2293.2	2138.1	2007.4	1934.3	1892.2	1885.5	1883.3	1887.7	1890.0
32.5°	2612.3	2530.3	2319.8	2122.6	1963.1	1870.0	1816.8	1814.6	1808.0	1808.0	1808.0
35°	2689.8	2585.7	2344.2	2120.4	1918.8	1801.3	1743.7	1737.1	1721.6	1714.9	1714.9
37.5°	2789.5	2672.1	2373.0	2104.9	1881.1	1734.9	1666.2	1644.0	1626.3	1624.1	1624.1
40°	2911.4	2769.6	2415.1	2087.2	1841.2	1666.2	1575.3	1537.7	1539.9	1548.7	1548.7
42.5°	3055.4	2889.2	2468.2	2078.3	1783.6	1595.3	1469.0	1424.7	1440.2	1449.0	1451.3
45°	3223.8	3031.0	2528.1	2067.2	1730.4	1515.5	1356.0	1300.6	1307.2	1309.5	1311.7
47.5°	3418.8	3188.3	2590.1	2058.4	1670.6	1415.8	1231.9	1158.8	1156.6	1143.3	1147.7
50°	3622.6	3354.5	2654.4	2042.8	1597.5	1298.4	1101.2	1014.8	997.0	977.1	979.3
52.5°	3839.7	3525.1	2714.2	2018.5	1506.7	1178.7	977.1	884.0	848.6	826.4	830.9
55°	4079.0	3700.2	2771.8	1980.8	1411.4	1059.1	866.3	771.1	726.7	709.0	711.2
57.5°	4298.4	3868.5	2813.9	1934.3	1307.2	950.5	768.8	675.8	647.0	644.8	647.0
60°	4511.1	4010.4	2831.6	1870.0	1200.9	850.8	678.0	607.1	587.2	598.2	600.4
62.5°	4690.6	4101.2	2822.8	1783.6	1092.3	755.5	604.9	553.9	540.6	562.8	565.0
65°	4794.7	4130.0	2760.7	1659.5	974.9	662.5	536.2	480.8	474.2	487.4	494.1
67.5°	4657.3	3950.5	2592.3	1488.9	844.2	576.1	469.7	425.4	414.3	425.4	425.4
70°	4127.8	3423.2	2193.5	1218.6	700.1	491.9	407.7	376.7	367.8	376.7	374.4
72.5°	3438.7	2847.1	1728.2	950.5	551.7	414.3	354.5	325.7	316.8	308.0	303.5
75°	2667.7	2162.5	1254.1	697.9	416.5	332.3	296.9	270.3	248.2	257.0	252.6
77.5°	1954.2	1517.7	888.5	483.0	299.1	257.0	232.6	212.7	197.2	214.9	212.7
80°	1258.5	981.5	593.8	323.5	206.1	179.5	170.6	159.5	175.0	228.2	232.6
82.5°	768.8	622.6	354.5	210.5	135.2	119.6	110.8	110.8	179.5	197.2	199.4
85°	343.4	330.1	192.8	108.6	75.3	68.7	62.0	79.8	73.1	53.2	55.4
87.5°	55.4	57.6	42.1	37.7	28.8	28.8	22.2	15.5	11.1	6.6	6.6
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)