

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: P841002

Luminaire Tested: **ARCH4-120-722-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P841002
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-120-722-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2200K, 1000mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18015 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

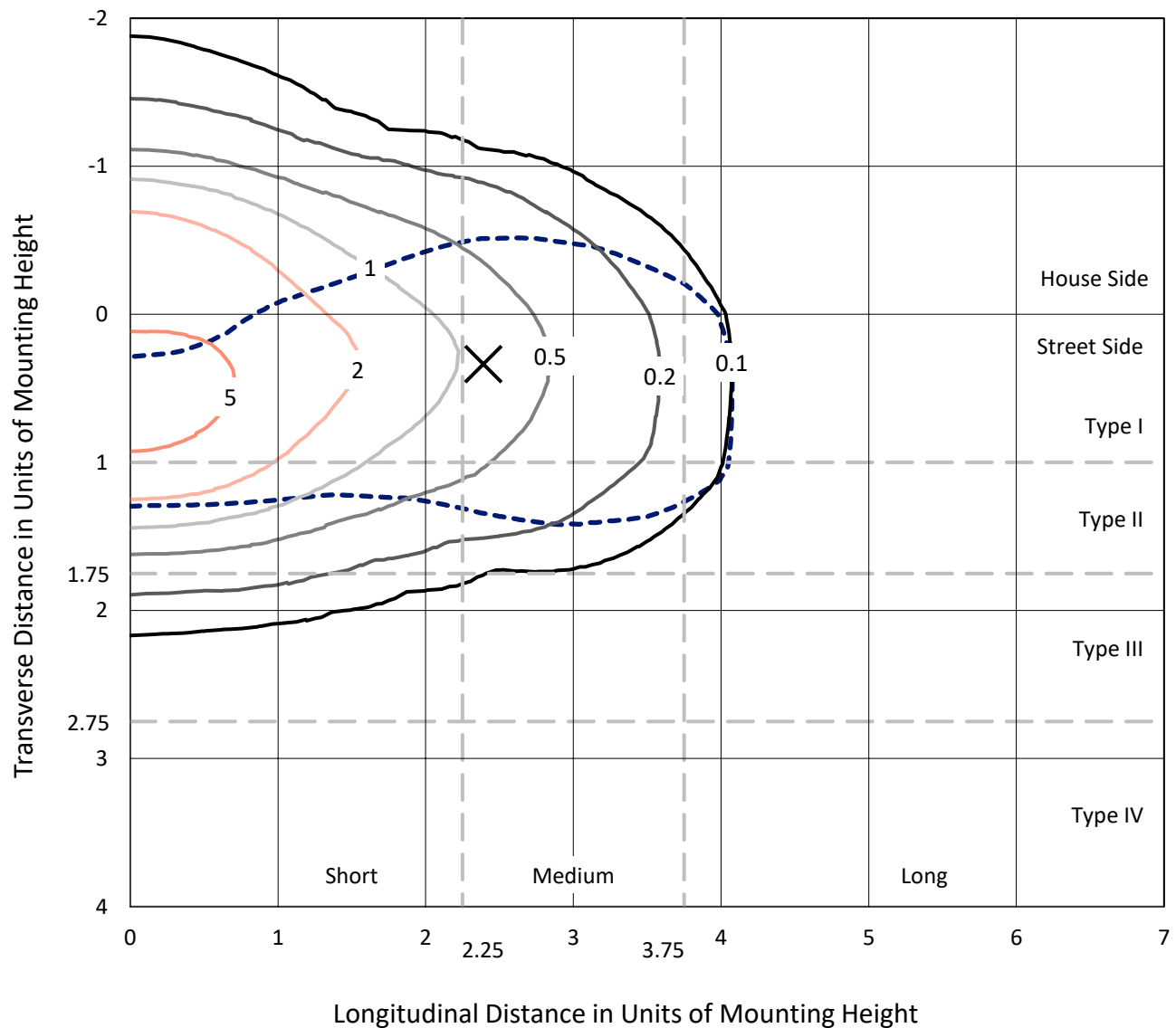
Input Watts (W): 122
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P841002
CATALOG NUMBER: ARCH4-120-722-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

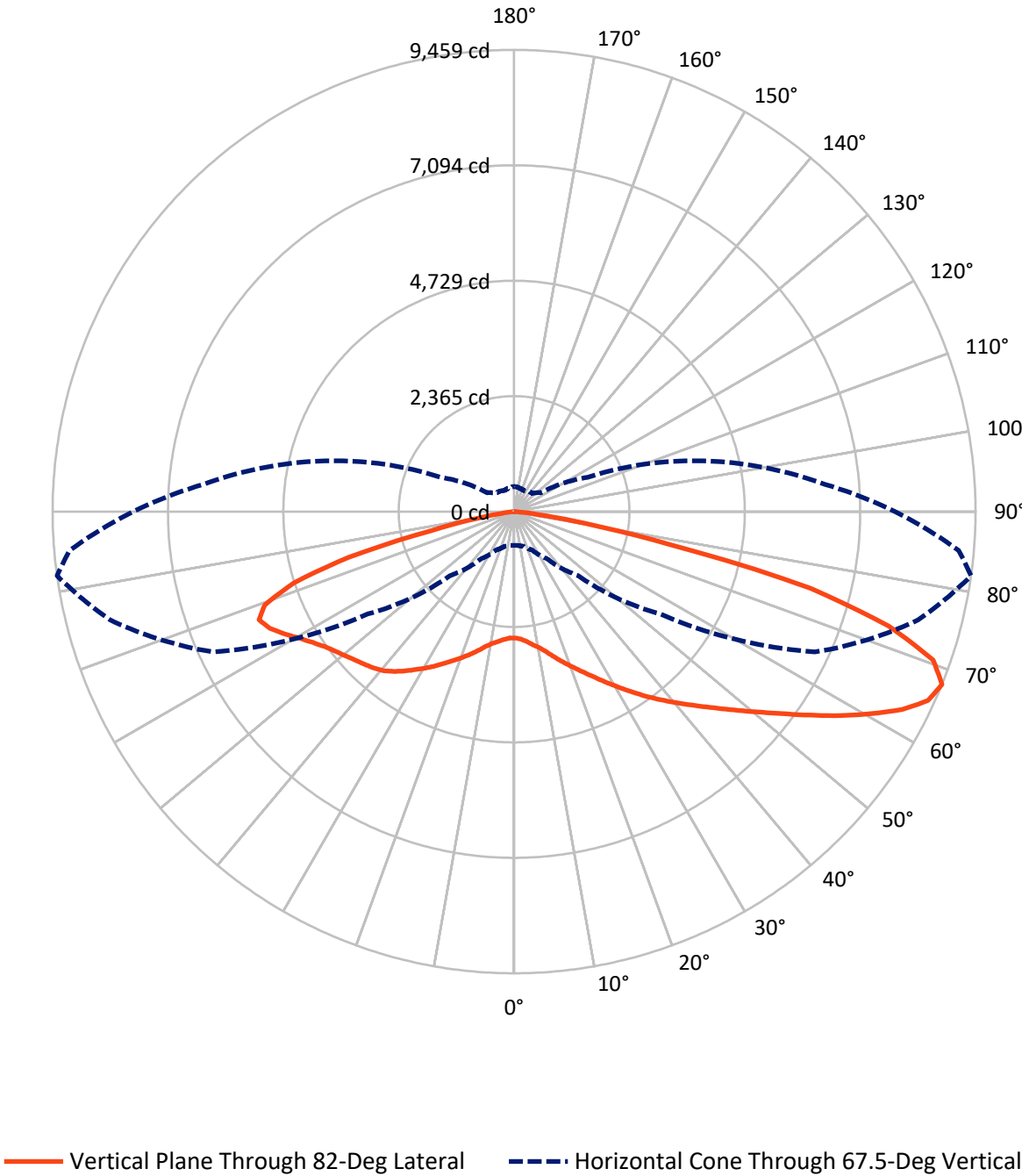
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
Type II - Medium - N/A

REPORT NUMBER: P841002
CATALOG NUMBER: ARCH4-120-722-U-T2R

Luminous Intensity Polar Plot



REPORT NUMBER: P841002

CATALOG NUMBER: ARCH4-120-722-U-T2R

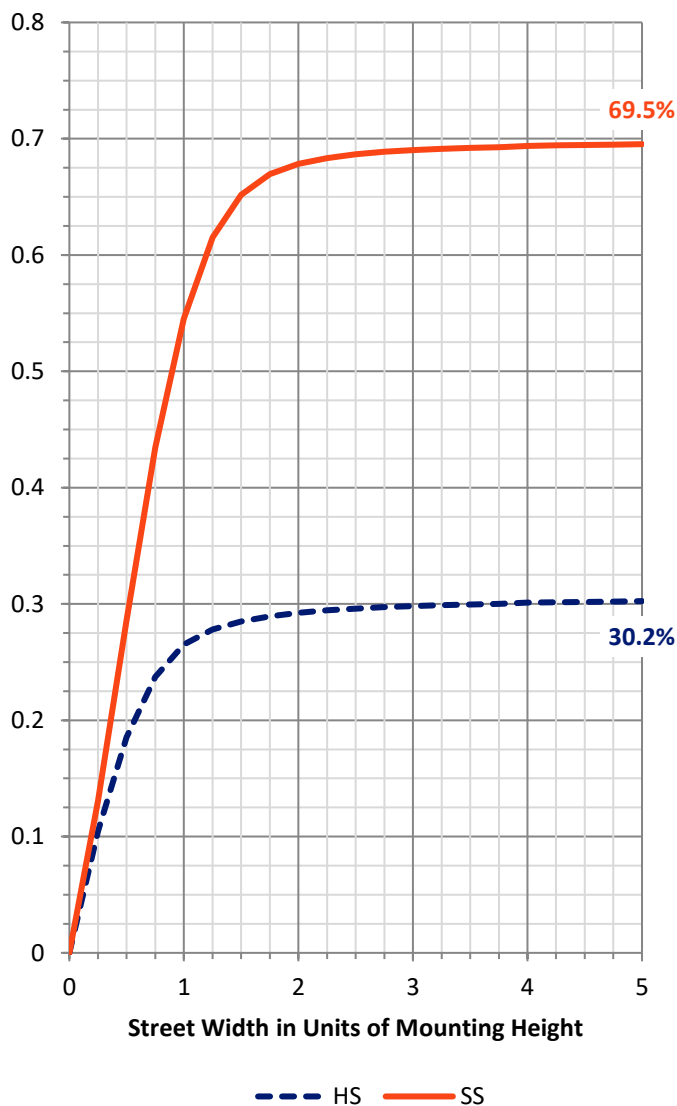
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5486.3	0.0	5486.3
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	12528.7	0.0	12528.7
	% Fixture	69.5	0.0	69.5
Total	Lumens	18015.0	0.0	18015.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.6	1.5
10°-20°	964.0	5.4
20°-30°	1937.4	10.8
30°-40°	3043.4	16.9
40°-50°	3707.5	20.6
50°-60°	3503.1	19.4
60°-70°	2892.8	16.1
70°-80°	1575.2	8.7
80°-90°	123.9	0.7
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°	18015.0	100.0
0°-180°	18015.0	100.0

Coefficient of Utilization



REPORT NUMBER: P841002

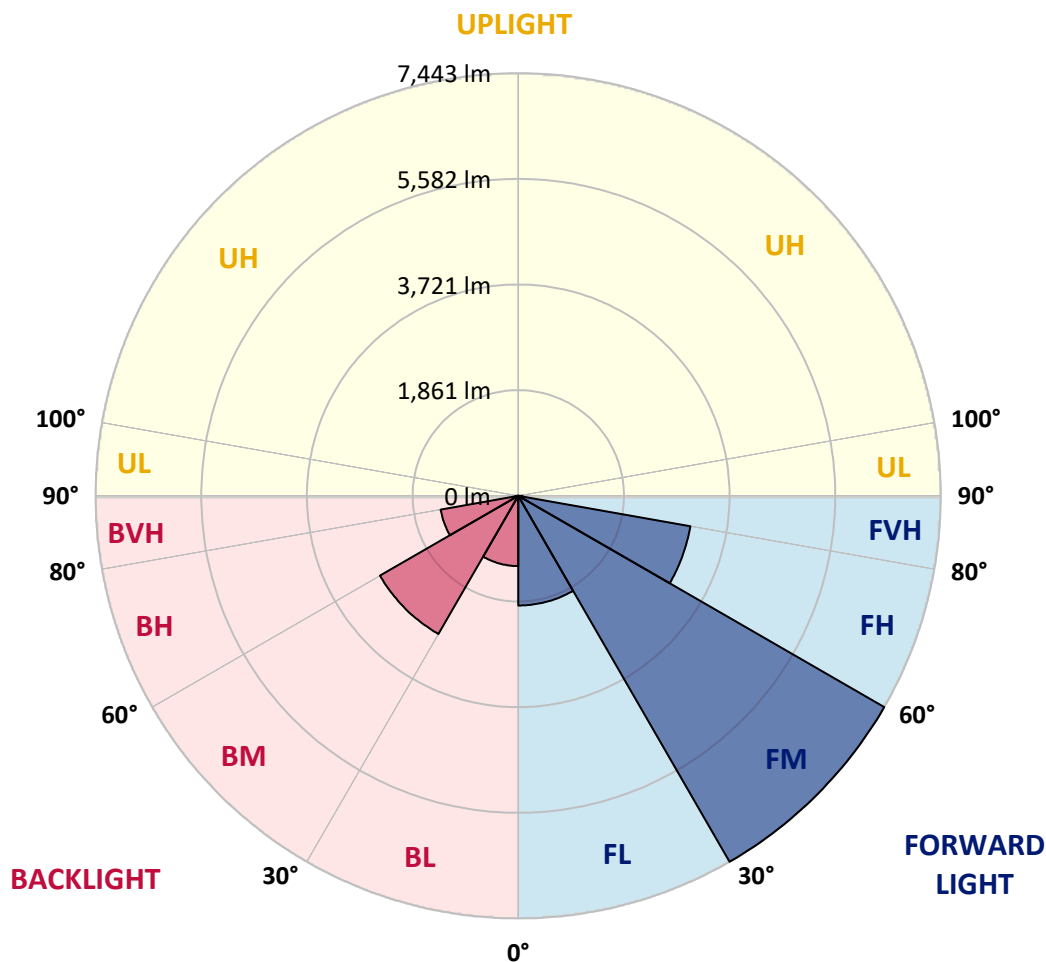
CATALOG NUMBER: ARCH4-120-722-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1931.9	10.7			
FM	(30°-60°)	7442.8	41.3			
FH	(60°-80°)	3079.4	17.1			G2/5000
FVH	(80°-90°)	74.7	0.4			G1/100
BL	(0°-30°)	1237.2	6.9	B3/2500		
BM	(30°-60°)	2811.3	15.6	B3/5000		
BH	(60°-80°)	1388.6	7.7	B3/2500		G3/2500
BVH	(80°-90°)	49.2	0.3			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: P841002

CATALOG NUMBER: ARCH4-120-722-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6
2.5°	2707.4	2707.4	2728.3	2728.3	2710.0	2681.2	2673.4	2642.0	2613.2	2613.2	2615.8
5°	2966.3	2963.7	2979.4	2958.5	2914.0	2856.5	2817.2	2749.2	2691.7	2673.4	2670.7
7.5°	3282.8	3280.2	3288.1	3254.1	3170.4	3076.2	2997.7	2887.8	2793.7	2754.4	2744.0
10°	3636.0	3633.4	3625.5	3568.0	3455.5	3309.0	3191.3	3039.6	2898.3	2835.5	2822.5
12.5°	4041.4	4036.2	4017.9	3934.2	3779.8	3591.5	3421.5	3225.3	3036.9	2950.6	2921.9
15°	4494.0	4486.1	4452.1	4350.1	4143.4	3905.4	3685.7	3434.6	3204.4	3091.9	3052.6
17.5°	4970.0	4970.0	4917.7	4766.0	4535.8	4240.2	3968.2	3649.0	3379.6	3241.0	3193.9
20°	5454.0	5451.3	5385.9	5202.8	4930.8	4590.7	4245.5	3894.9	3560.1	3392.7	3335.2
22.5°	5964.0	5958.8	5877.7	5668.4	5344.1	4959.6	4556.7	4138.2	3758.9	3557.5	3484.3
25°	6550.0	6542.1	6442.7	6186.4	5801.9	5367.6	4907.3	4423.3	3986.5	3740.6	3654.3
27.5°	7172.5	7162.1	7044.4	6746.2	6325.0	5801.9	5294.4	4752.9	4237.6	3944.6	3847.8
30°	7727.1	7719.2	7591.1	7285.0	6801.1	6233.5	5663.2	5082.5	4501.8	4161.7	4041.4
32.5°	8145.6	8145.6	8030.5	7729.7	7227.5	6646.8	6034.7	5393.8	4776.5	4394.6	4253.3
35°	8399.3	8407.2	8307.8	8067.1	7593.7	7036.5	6419.2	5760.0	5069.4	4643.1	4491.3
37.5°	8436.0	8462.1	8404.6	8242.4	7847.4	7360.9	6795.9	6113.1	5372.9	4894.2	4724.1
40°	8265.9	8284.3	8286.9	8224.1	7952.0	7593.7	7128.1	6487.2	5694.6	5158.4	4962.2
42.5°	7925.9	7939.0	7962.5	7980.8	7876.2	7695.7	7381.8	6835.1	6037.3	5427.8	5197.6
45°	7486.4	7483.8	7523.1	7601.5	7596.3	7638.2	7523.1	7151.6	6393.0	5733.8	5459.2
47.5°	6829.9	6816.8	6955.4	7133.3	7222.2	7418.4	7525.7	7400.1	6780.2	6071.3	5757.4
50°	5801.9	5788.8	6092.2	6510.7	6772.3	7070.5	7381.8	7549.2	7185.6	6450.6	6081.7
52.5°	4551.5	4538.4	4922.9	5655.4	6225.6	6659.8	7091.4	7583.2	7570.1	6874.3	6448.0
55°	3384.9	3374.4	3748.4	4541.0	5464.4	6183.8	6735.7	7494.3	7931.1	7360.9	6892.6
57.5°	2385.6	2380.4	2704.7	3361.3	4486.1	5603.1	6393.0	7321.6	8263.3	7889.3	7394.9
60°	1674.1	1666.3	1901.7	2409.2	3392.7	4726.8	6053.0	7091.4	8511.8	8409.8	7928.5
62.5°	1127.4	1122.2	1289.6	1713.4	2409.2	3638.6	5537.7	6937.1	8653.1	8933.0	8467.4
65°	855.4	852.8	928.6	1161.4	1705.5	2613.2	4718.9	6918.8	8671.4	9325.3	8925.1
67.5°	690.6	693.2	735.0	868.4	1179.7	1857.2	3659.5	6803.7	8574.6	9458.8	9147.5
70°	565.0	565.0	583.3	672.3	871.1	1253.0	2555.6	6280.5	8305.2	9110.8	8883.3
72.5°	431.6	434.2	491.8	544.1	656.6	878.9	1637.5	5197.6	7669.5	8033.1	7860.5
75°	342.7	340.1	374.1	447.3	510.1	627.8	1004.5	3727.5	6526.4	6277.9	6168.1
77.5°	245.9	243.3	269.4	332.2	387.1	444.7	599.0	1880.8	3549.6	3261.9	3180.8
80°	167.4	162.2	185.7	230.2	256.3	261.6	293.0	722.0	1548.6	1459.6	1441.3
82.5°	86.3	86.3	99.4	130.8	133.4	136.0	130.8	232.8	512.7	478.7	457.8
85°	34.0	34.0	36.6	44.5	44.5	47.1	47.1	60.2	54.9	52.3	49.7
87.5°	2.6	2.6	5.2	5.2	7.8	7.8	7.8	10.5	13.1	13.1	13.1
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: P841002

CATALOG NUMBER: ARCH4-120-722-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6	2589.6
2.5°	2610.6	2600.1	2566.1	2558.3	2553.0	2545.2	2547.8	2529.5	2521.6	2524.3	2513.8
5°	2657.7	2639.3	2597.5	2579.2	2574.0	2566.1	2574.0	2560.9	2547.8	2553.0	2547.8
7.5°	2723.1	2696.9	2644.6	2626.3	2623.7	2615.8	2626.3	2615.8	2605.3	2610.6	2600.1
10°	2791.1	2757.1	2699.5	2681.2	2681.2	2678.6	2689.0	2673.4	2662.9	2665.5	2660.3
12.5°	2890.5	2846.0	2783.2	2767.5	2759.7	2767.5	2770.1	2749.2	2730.9	2733.5	2725.7
15°	3010.8	2961.1	2893.1	2869.5	2864.3	2861.7	2851.2	2825.1	2801.5	2798.9	2791.1
17.5°	3141.6	3078.8	2997.7	2974.2	2950.6	2942.8	2916.6	2882.6	2846.0	2846.0	2835.5
20°	3267.1	3196.5	3099.7	3065.7	3031.7	3000.3	2955.9	2900.9	2853.8	2846.0	2835.5
22.5°	3403.2	3319.5	3207.0	3157.3	3097.1	3034.3	2958.5	2885.2	2825.1	2812.0	2804.1
25°	3554.9	3450.2	3316.8	3243.6	3146.8	3050.0	2937.5	2843.4	2772.8	2751.8	2746.6
27.5°	3722.3	3596.7	3434.6	3327.3	3186.1	3034.3	2890.5	2778.0	2691.7	2665.5	2657.7
30°	3892.3	3743.2	3541.8	3384.9	3186.1	2984.6	2804.1	2673.4	2574.0	2537.3	2532.1
32.5°	4062.3	3894.9	3638.6	3416.2	3154.7	2900.9	2691.7	2537.3	2424.9	2380.4	2390.8
35°	4266.4	4062.3	3727.5	3429.3	3102.3	2798.9	2563.5	2383.0	2267.9	2228.7	2236.5
37.5°	4478.3	4229.8	3798.1	3418.9	3029.1	2683.8	2419.6	2244.4	2100.5	2032.5	2040.3
40°	4661.4	4381.5	3847.8	3382.2	2934.9	2553.0	2278.4	2048.2	1849.4	1784.0	1776.1
42.5°	4834.0	4494.0	3874.0	3327.3	2827.7	2401.3	2076.9	1781.4	1582.6	1501.5	1504.1
45°	5014.5	4603.8	3863.5	3254.1	2694.3	2223.4	1818.0	1519.8	1344.5	1271.3	1273.9
47.5°	5221.1	4721.5	3853.1	3175.6	2532.1	1993.2	1569.5	1289.6	1137.9	1085.6	1080.3
50°	5440.9	4852.3	3840.0	3078.8	2351.6	1736.9	1323.6	1075.1	946.9	912.9	905.1
52.5°	5689.4	4993.6	3832.2	2963.7	2134.5	1464.9	1103.9	886.8	800.4	776.9	774.3
55°	5987.6	5158.4	3842.6	2825.1	1872.9	1208.5	918.1	763.8	706.3	693.2	690.6
57.5°	6351.2	5370.2	3874.0	2662.9	1598.3	986.2	782.1	688.0	651.3	640.9	640.9
60°	6746.2	5610.9	3931.6	2479.8	1323.6	813.5	693.2	627.8	612.1	625.2	625.2
62.5°	7172.5	5893.4	4033.6	2257.4	1067.2	688.0	622.6	578.1	567.6	593.8	596.4
65°	7567.5	6168.1	4099.0	1990.6	847.5	596.4	567.6	528.4	533.6	559.8	557.2
67.5°	7810.8	6395.6	4007.4	1655.8	672.3	528.4	510.1	476.1	489.2	510.1	512.7
70°	7661.7	6267.5	3554.9	1250.4	525.8	460.4	447.3	426.4	436.8	463.0	473.5
72.5°	6931.9	5613.5	2764.9	844.9	423.8	387.1	392.4	381.9	395.0	418.5	442.1
75°	5626.6	4242.8	1854.6	541.5	334.8	329.6	337.4	329.6	334.8	358.4	371.4
77.5°	2937.5	2069.1	923.4	337.4	248.5	256.3	269.4	272.0	287.7	293.0	298.2
80°	1370.7	931.2	384.5	188.3	164.8	180.5	206.6	209.3	214.5	222.3	225.0
82.5°	447.3	279.9	177.9	102.0	94.2	102.0	133.4	159.6	162.2	177.9	177.9
85°	47.1	28.8	39.2	41.9	36.6	44.5	60.2	57.5	26.2	15.7	15.7
87.5°	13.1	10.5	13.1	13.1	10.5	10.5	7.8	2.6	0.0	0.0	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)