

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: P842682

Luminaire Tested: **ARCH4-80-730-U-T4W**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-80-730-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 685mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14102 lumens
Efficiency: N/A
Efficacy: 169.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 83.4
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

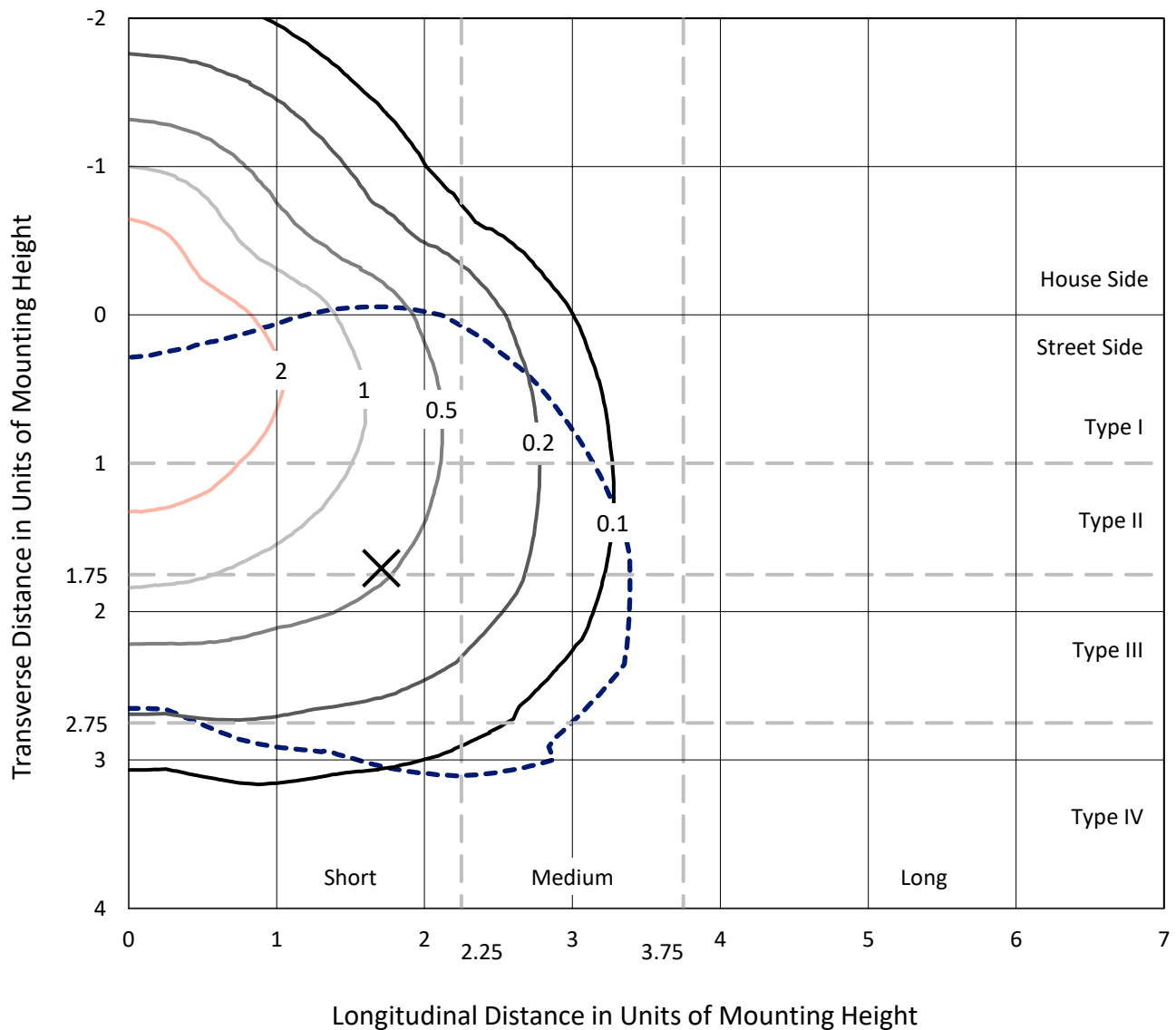


REPORT NUMBER: P842682

CATALOG NUMBER: ARCH4-80-730-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

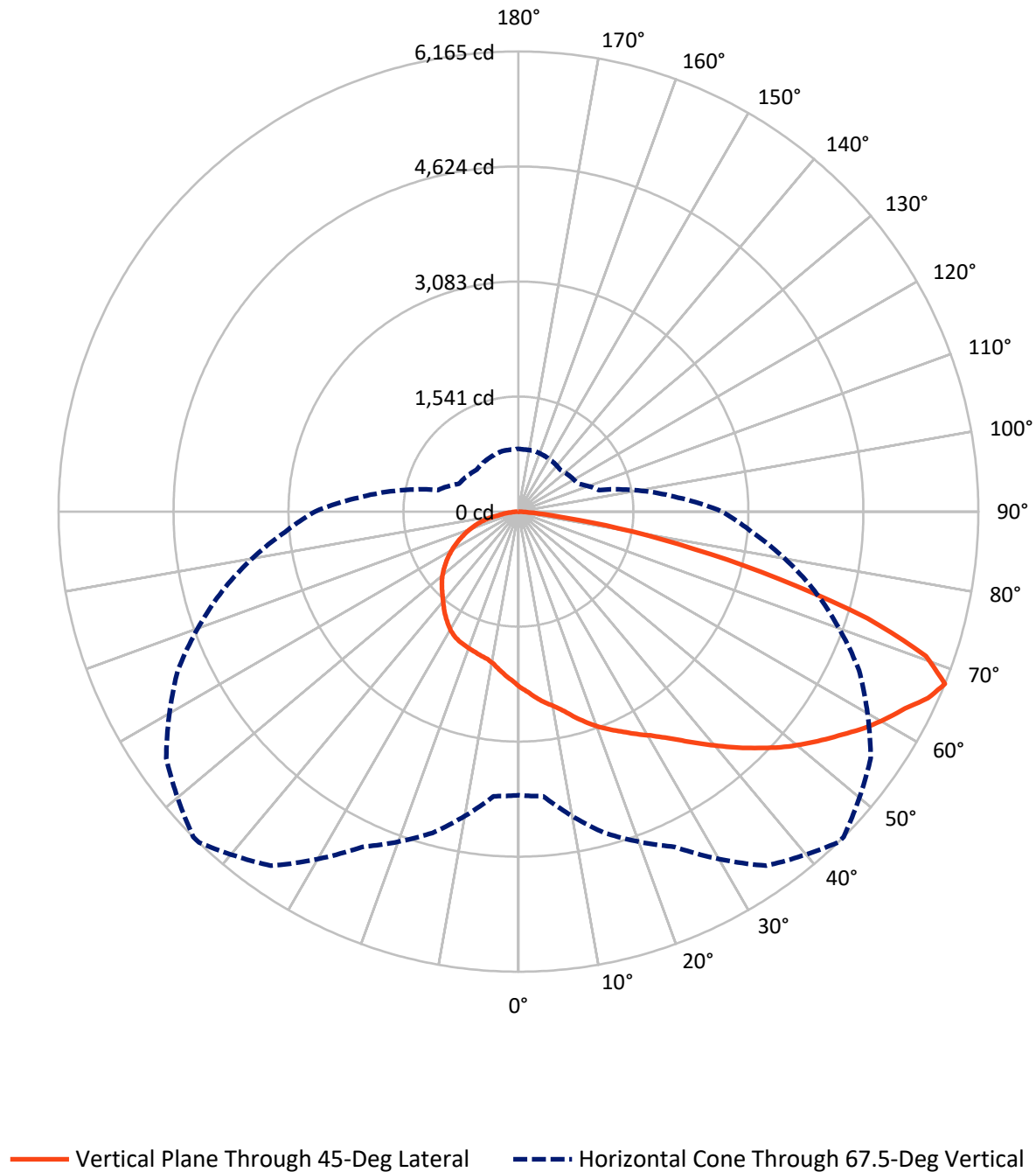
× Max cd
- - - 1/2 Max cd



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

REPORT NUMBER: P842682
CATALOG NUMBER: ARCH4-80-730-U-T4W

Luminous Intensity Polar Plot



REPORT NUMBER: P842682

CATALOG NUMBER: ARCH4-80-730-U-T4W

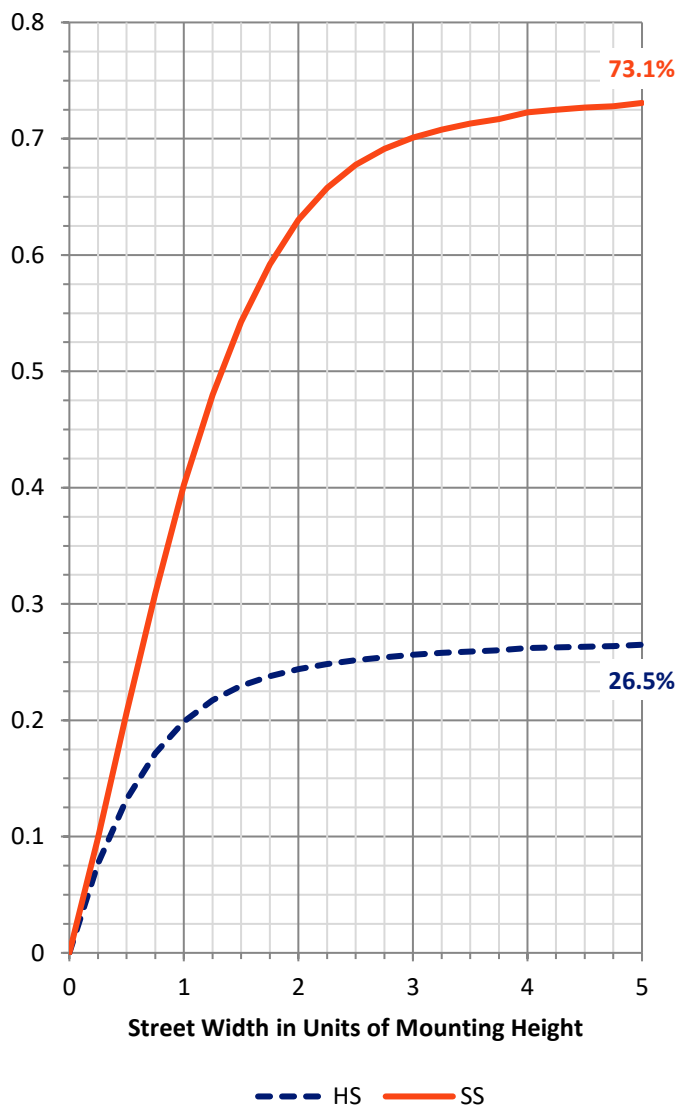
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3767.4	0.0	3767.4
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	10334.6	0.0	10334.6
	% Fixture	73.3	0.0	73.3
Total	Lumens	14102.0	0.0	14102.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.2	1.6
10°-20°	695.6	4.9
20°-30°	1200.7	8.5
30°-40°	1770.7	12.6
40°-50°	2398.9	17.0
50°-60°	2932.0	20.8
60°-70°	3024.0	21.4
70°-80°	1656.3	11.7
80°-90°	198.5	1.4
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°	14102.0	100.0
0°-180°	14102.0	100.0

Coefficient of Utilization



REPORT NUMBER: P842682

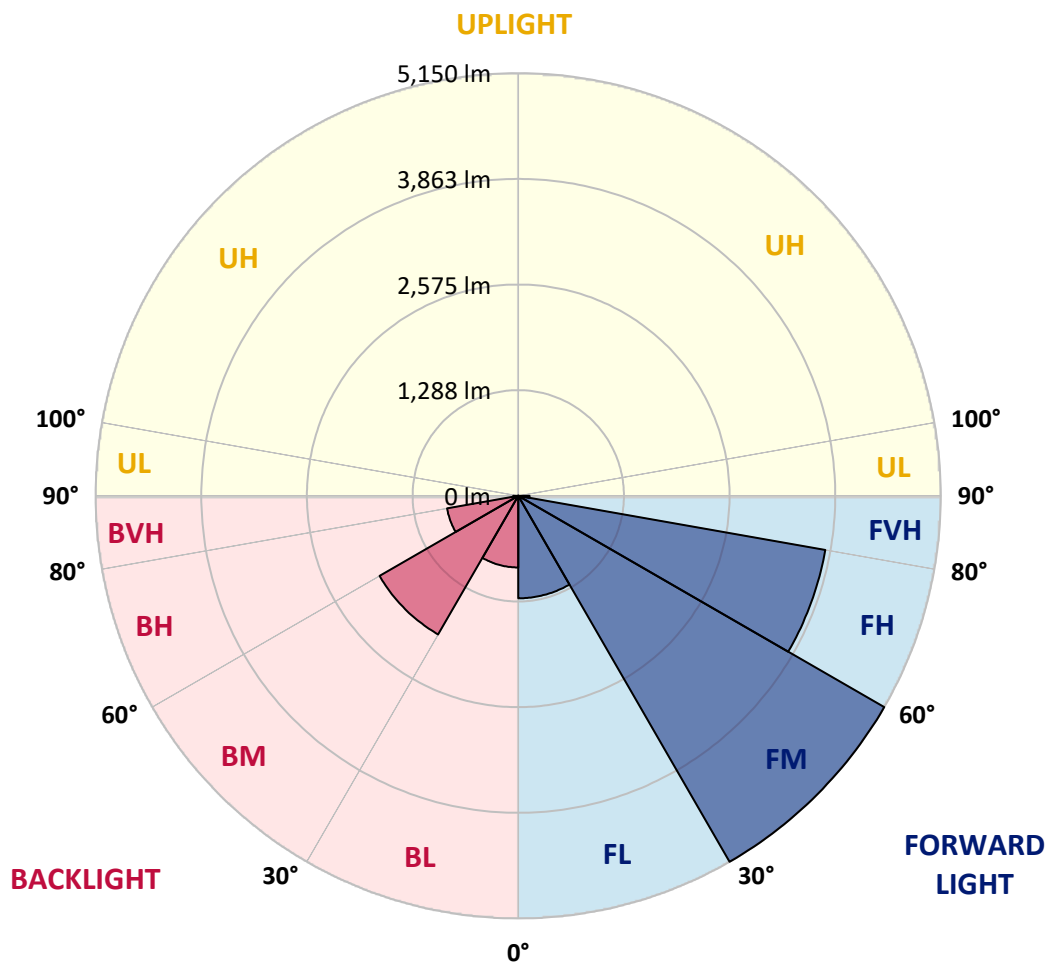
CATALOG NUMBER: ARCH4-80-730-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1248.4	8.9			
FM	(30°-60°)	5150.2	36.5			
FH	(60°-80°)	3799.3	26.9			G2/5000
FVH	(80°-90°)	136.8	1.0			G2/225
BL	(0°-30°)	873.1	6.2	B2/1000		
BM	(30°-60°)	1951.4	13.8	B2/2500		
BH	(60°-80°)	881.0	6.2	B2/1000		G2/1000
BVH	(80°-90°)	61.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Short



REPORT NUMBER: P842682

CATALOG NUMBER: ARCH4-80-730-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2351.9	2351.9	2351.9	2351.9	2351.9	2351.9	2351.9	2351.9	2351.9	2351.9	2351.9
2.5°	2455.0	2452.8	2457.1	2442.1	2422.8	2420.6	2420.6	2407.7	2392.7	2362.7	2339.1
5°	2570.8	2566.5	2568.7	2547.2	2521.5	2508.6	2506.5	2478.6	2444.2	2397.0	2354.1
7.5°	2678.1	2673.8	2671.7	2648.1	2609.5	2588.0	2585.9	2545.1	2504.3	2431.3	2369.1
10°	2779.0	2774.7	2770.4	2738.2	2691.0	2658.8	2654.5	2603.0	2551.5	2461.4	2382.0
12.5°	2907.7	2899.2	2894.9	2856.2	2787.6	2753.2	2746.8	2678.1	2613.8	2504.3	2407.7
15°	3042.9	3036.5	3030.1	2993.6	2916.3	2871.3	2860.5	2774.7	2686.7	2560.1	2446.4
17.5°	3143.8	3137.4	3137.4	3105.2	3034.4	2982.9	2974.3	2871.3	2761.8	2611.6	2476.4
20°	3206.0	3199.6	3206.0	3186.7	3133.1	3090.1	3081.6	2967.8	2836.9	2658.8	2502.2
22.5°	3251.1	3244.7	3255.4	3246.8	3208.2	3182.4	3176.0	3064.4	2914.2	2708.2	2527.9
25°	3330.5	3330.5	3330.5	3315.5	3279.0	3270.4	3270.4	3173.8	3012.9	2772.5	2566.5
27.5°	3489.3	3480.7	3470.0	3427.1	3364.8	3362.7	3375.6	3285.4	3126.6	2856.2	2613.8
30°	3723.2	3718.9	3678.1	3588.0	3482.9	3472.1	3480.7	3405.6	3248.9	2944.2	2667.4
32.5°	4025.8	4010.8	3927.1	3791.9	3641.7	3592.3	3609.5	3530.1	3377.7	3034.4	2718.9
35°	4240.4	4244.7	4184.6	4062.3	3884.1	3753.2	3766.1	3669.6	3517.2	3135.2	2783.3
37.5°	4487.2	4502.2	4412.0	4319.8	4154.5	3931.4	3944.2	3813.3	3656.7	3261.8	2851.9
40°	4828.4	4798.3	4646.0	4536.5	4354.1	4118.1	4128.8	3974.3	3817.6	3382.0	2931.3
42.5°	5113.8	5060.1	4875.6	4736.1	4517.2	4315.5	4326.2	4148.1	3980.7	3515.0	3019.3
45°	5523.6	5375.6	5109.5	5040.8	4684.6	4508.6	4519.3	4332.6	4152.4	3656.7	3113.8
47.5°	5761.8	5525.8	5356.3	5319.8	4869.1	4708.2	4721.1	4527.9	4336.9	3817.6	3212.5
50°	5746.8	5594.5	5545.1	5455.0	5032.2	4894.9	4907.8	4729.6	4523.6	3976.4	3306.9
52.5°	5648.1	5676.0	5650.3	5500.0	5195.3	5075.1	5090.2	4929.2	4714.6	4124.5	3394.9
55°	5800.5	5819.8	5770.4	5573.0	5375.6	5255.4	5272.6	5139.5	4903.5	4255.4	3470.0
57.5°	5982.9	5914.2	5864.8	5701.8	5562.3	5450.7	5470.0	5354.1	5066.6	4360.5	3527.9
60°	5974.3	5830.5	5879.9	5710.3	5688.9	5630.9	5648.1	5530.1	5191.0	4437.8	3551.5
62.5°	5534.4	5457.1	5706.0	5648.1	5791.9	5791.9	5813.3	5637.4	5266.1	4470.0	3538.6
65°	4770.4	4774.7	5212.5	5452.8	5914.2	6012.9	6030.1	5703.9	5223.2	4375.6	3418.5
67.5°	3800.5	3828.4	4457.1	4957.1	5791.9	6163.1	6165.3	5764.0	5038.7	4109.5	3139.5
70°	2781.1	2802.6	3545.1	4152.4	5214.6	5830.5	5796.2	5594.5	4637.4	3645.9	2703.9
72.5°	1879.8	1899.2	2663.1	3188.9	4279.0	4965.7	4890.6	4944.2	3952.8	2995.7	2173.8
75°	1264.0	1287.6	1894.9	2281.1	3148.1	3770.4	3603.0	3744.7	3058.0	2268.3	1585.8
77.5°	796.1	811.2	1203.9	1495.7	2150.2	2566.5	2399.2	2401.3	1761.8	1221.0	851.9
80°	506.4	510.7	729.6	862.7	1244.6	1542.9	1364.8	1109.4	794.0	648.1	508.6
82.5°	294.0	287.6	435.6	487.1	592.3	585.8	485.0	459.2	347.6	324.0	259.7
85°	118.0	109.4	191.0	178.1	180.3	191.0	141.6	141.6	113.7	88.0	64.4
87.5°	23.6	23.6	25.8	23.6	23.6	25.8	19.3	19.3	17.2	17.2	17.2
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: P842682

CATALOG NUMBER: ARCH4-80-730-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2351.9	2351.9	2351.9	2351.9	2351.9	2351.9	2351.9	2351.9	2351.9	2351.9	2351.9
2.5°	2334.8	2330.5	2319.8	2291.9	2276.8	2268.3	2255.4	2251.1	2248.9	2251.1	2257.5
5°	2341.2	2326.2	2296.2	2251.1	2221.0	2201.7	2180.3	2171.7	2165.2	2165.2	2171.7
7.5°	2345.5	2321.9	2270.4	2203.9	2161.0	2130.9	2105.2	2094.4	2092.3	2098.7	2100.9
10°	2347.7	2313.3	2240.4	2156.7	2100.9	2062.2	2036.5	2030.1	2036.5	2049.4	2051.5
12.5°	2362.7	2315.5	2223.2	2124.5	2058.0	2019.3	2000.0	2000.0	2017.2	2040.8	2042.9
15°	2388.4	2330.5	2214.6	2098.7	2030.1	1995.7	1989.3	2000.0	2025.8	2062.2	2066.5
17.5°	2407.7	2339.1	2195.3	2064.4	1993.6	1972.1	1982.8	2008.6	2045.1	2094.4	2098.7
20°	2420.6	2339.1	2167.4	2023.6	1957.1	1952.8	1982.8	2023.6	2062.2	2120.2	2126.6
22.5°	2433.5	2334.8	2135.2	1974.3	1916.3	1929.2	1985.0	2036.5	2075.1	2137.4	2148.1
25°	2457.1	2341.2	2103.0	1924.9	1873.4	1909.9	1982.8	2045.1	2085.9	2150.2	2167.4
27.5°	2489.3	2356.2	2079.4	1879.8	1830.5	1879.8	1967.8	2042.9	2085.9	2148.1	2167.4
30°	2523.6	2373.4	2051.5	1830.5	1781.1	1836.9	1935.6	2019.3	2068.7	2126.6	2150.2
32.5°	2560.1	2392.7	2027.9	1776.8	1721.0	1779.0	1888.4	1982.8	2036.5	2090.1	2115.9
35°	2609.5	2427.1	2015.0	1733.9	1667.4	1718.9	1828.3	1935.6	1993.6	2042.9	2073.0
37.5°	2669.5	2470.0	2008.6	1691.0	1609.5	1652.4	1764.0	1877.7	1939.9	1980.7	2008.6
40°	2738.2	2523.6	2006.5	1650.2	1551.5	1583.7	1697.4	1811.2	1871.3	1903.4	1927.1
42.5°	2815.5	2583.7	2002.2	1609.5	1493.6	1519.3	1633.1	1744.6	1796.1	1824.0	1845.5
45°	2897.0	2643.8	1993.6	1560.1	1431.3	1461.4	1566.5	1665.2	1718.9	1742.5	1766.1
47.5°	2978.6	2703.9	1976.4	1504.3	1375.5	1403.4	1495.7	1581.6	1624.5	1645.9	1669.5
50°	3058.0	2757.5	1935.6	1439.9	1317.6	1343.4	1414.2	1472.1	1504.3	1521.5	1545.1
52.5°	3128.8	2794.0	1877.7	1364.8	1259.7	1272.5	1319.8	1369.1	1394.9	1397.0	1418.5
55°	3188.9	2813.3	1794.0	1287.6	1197.4	1199.6	1225.3	1264.0	1274.7	1266.1	1281.1
57.5°	3223.2	2802.6	1701.7	1208.2	1133.1	1124.5	1143.8	1163.1	1165.2	1143.8	1158.8
60°	3231.8	2753.2	1581.6	1128.8	1068.7	1045.1	1051.5	1047.2	1042.9	1034.3	1047.2
62.5°	3188.9	2648.1	1448.5	1051.5	1000.0	963.5	961.4	959.2	965.7	967.8	970.0
65°	3032.2	2450.7	1289.7	972.1	927.0	877.7	875.5	901.3	909.9	897.0	901.3
67.5°	2729.6	2148.1	1115.9	879.8	834.8	791.9	809.0	824.0	839.1	834.8	839.1
70°	2300.4	1764.0	957.1	776.8	733.9	710.3	729.6	742.5	744.6	740.3	744.6
72.5°	1809.0	1377.7	809.0	671.7	633.1	622.3	645.9	656.7	676.0	684.6	686.7
75°	1306.9	1017.2	663.1	557.9	525.8	525.8	547.2	566.5	583.7	573.0	566.5
77.5°	729.6	607.3	476.4	384.1	390.6	420.6	429.2	450.6	467.8	465.7	461.4
80°	442.1	379.8	321.9	248.9	246.8	270.4	326.2	362.7	371.2	351.9	349.8
82.5°	229.6	199.6	171.7	139.5	154.5	180.3	188.8	227.5	251.1	242.5	253.2
85°	57.9	55.8	62.2	64.4	79.4	88.0	96.6	113.7	75.1	36.5	36.5
87.5°	17.2	17.2	21.5	21.5	27.9	34.3	32.2	32.2	17.2	2.1	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)