

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: P835916

Luminaire Tested: **ARCH3-110-740-U-T4W-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P835916
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-110-740-U-T4W-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 880mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12172 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

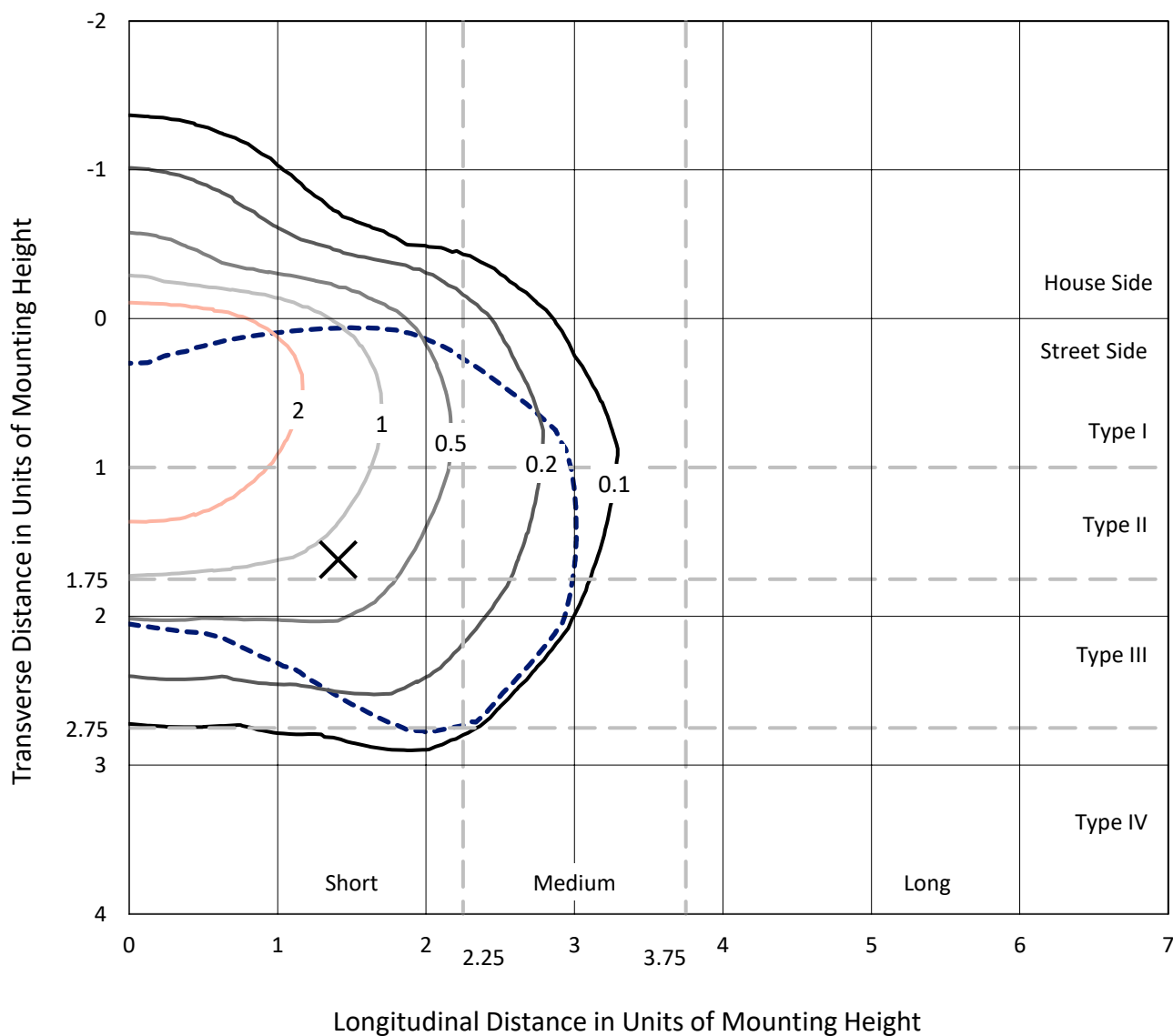
Input Watts (W): 111.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P835916
 CATALOG NUMBER: ARCH3-110-740-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

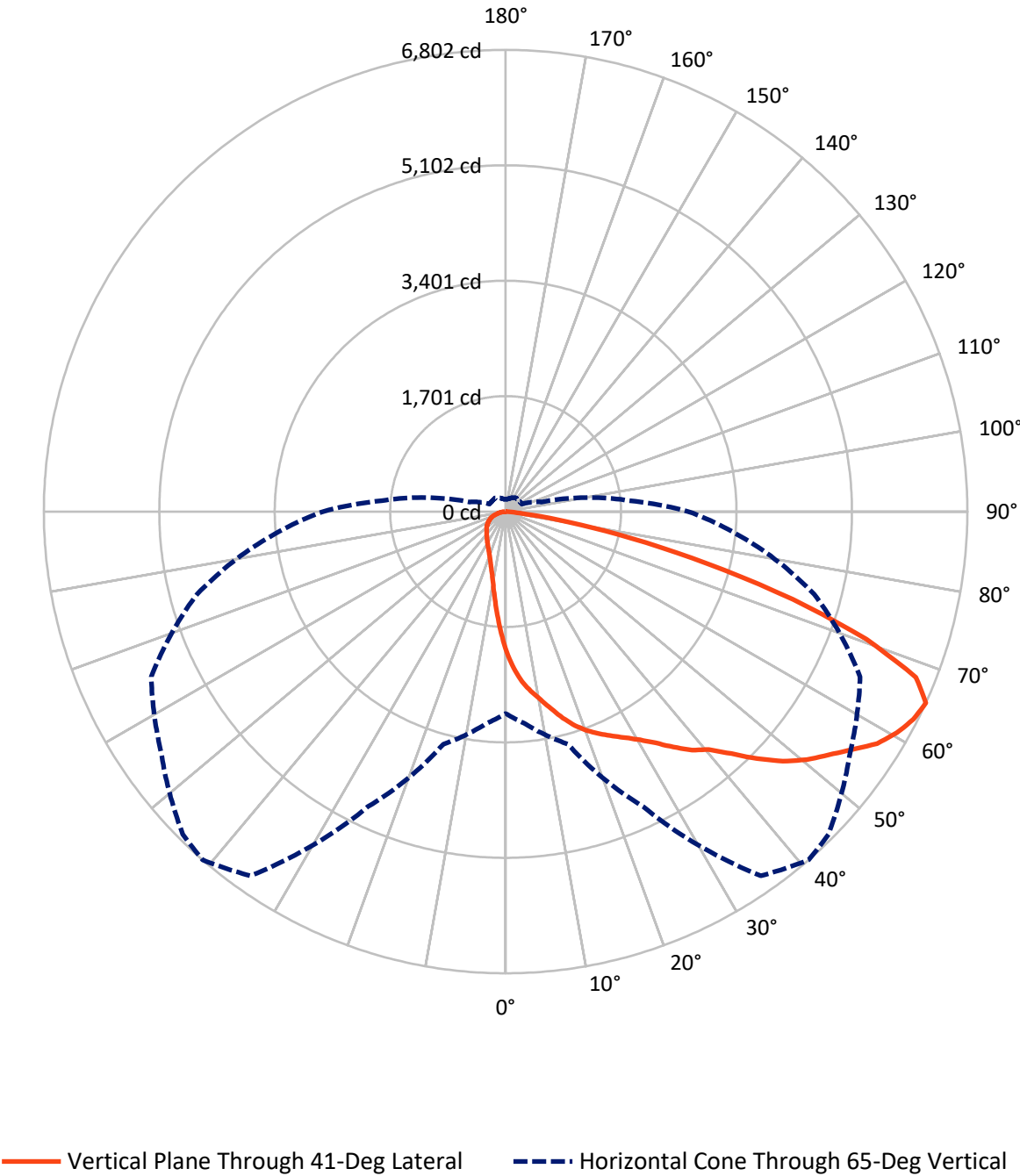
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P835916
CATALOG NUMBER: ARCH3-110-740-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P835916

CATALOG NUMBER: ARCH3-110-740-U-T4W-HSS

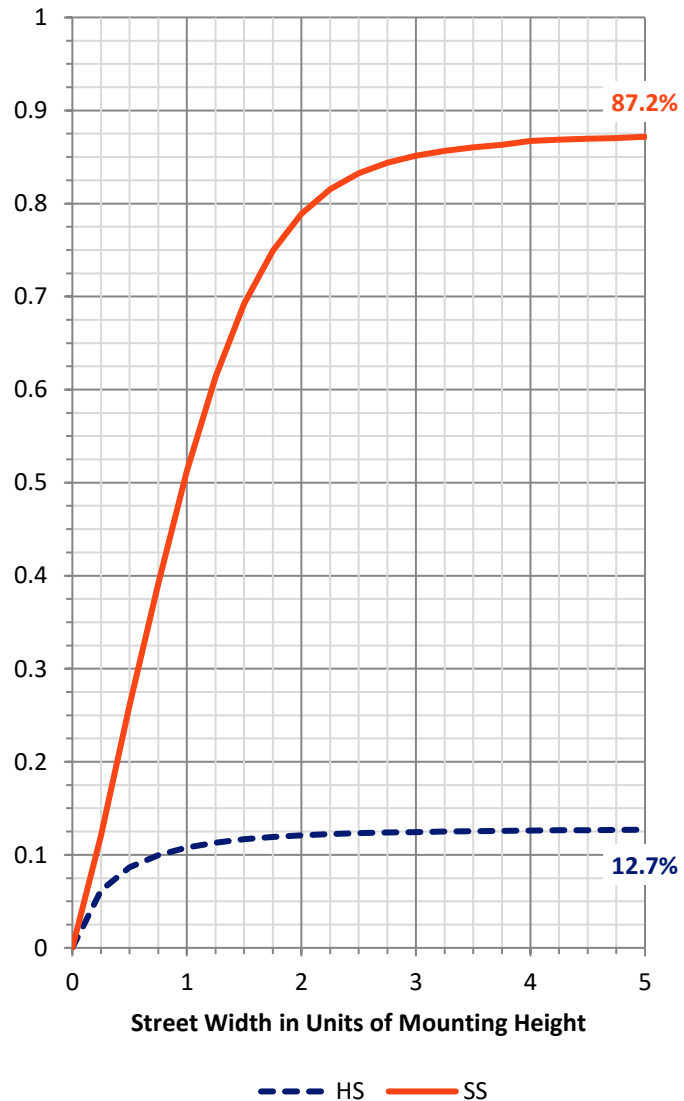
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1562.7	0.0	1562.7
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	10609.3	0.0	10609.3
	% Fixture	87.2	0.0	87.2
Total	Lumens	12172.0	0.0	12172.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.2	1.6
10°-20°	579.5	4.8
20°-30°	996.9	8.2
30°-40°	1511.9	12.4
40°-50°	2215.0	18.2
50°-60°	2797.1	23.0
60°-70°	2622.8	21.5
70°-80°	1169.0	9.6
80°-90°	86.6	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°	12172.0	100.0
0°-180°	12172.0	100.0

Coefficient of Utilization



REPORT NUMBER: P835916

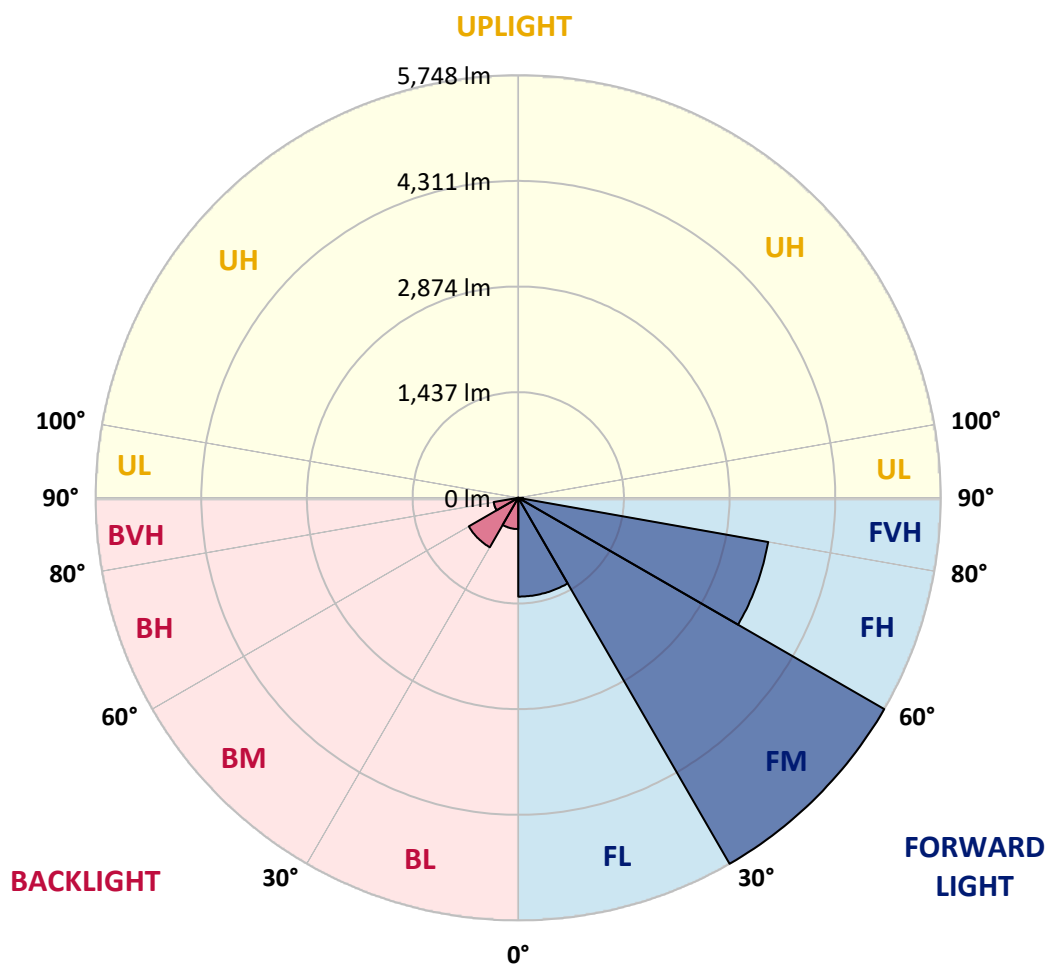
CATALOG NUMBER: ARCH3-110-740-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1344.2	11.0			
FM	(30°-60°)	5748.1	47.2			
FH	(60°-80°)	3452.3	28.4			G2/5000
FVH	(80°-90°)	64.7	0.5			G1/100
BL	(0°-30°)	425.3	3.5	B1/500		
BM	(30°-60°)	776.0	6.4	B1/1000		
BH	(60°-80°)	339.5	2.8	B1/500		G1/500
BVH	(80°-90°)	21.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short



REPORT NUMBER: P835916

CATALOG NUMBER: ARCH3-110-740-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	41°	45°	55°	65°	75°	85°
0°	2074.0	2074.0	2074.0	2074.0	2074.0	2074.0	2074.0	2074.0	2074.0	2074.0	2074.0
2.5°	2392.3	2384.6	2379.5	2351.3	2351.3	2312.8	2315.3	2279.4	2235.8	2166.5	2092.0
5°	2618.2	2608.0	2595.1	2566.9	2556.6	2518.1	2513.0	2461.6	2387.2	2266.6	2133.1
7.5°	2815.9	2805.6	2787.6	2746.6	2718.3	2672.1	2659.3	2592.6	2510.4	2361.5	2174.2
10°	2995.6	2987.9	2964.8	2913.4	2874.9	2818.4	2795.3	2705.5	2602.8	2438.5	2207.5
12.5°	3177.8	3167.5	3136.7	3093.1	3046.9	2980.2	2951.9	2836.4	2705.5	2523.3	2256.3
15°	3347.2	3331.8	3308.7	3262.5	3221.4	3157.3	3126.5	2990.4	2831.3	2618.2	2320.5
17.5°	3457.6	3444.8	3424.2	3398.6	3365.2	3316.4	3285.6	3152.1	2957.1	2710.6	2387.2
20°	3524.3	3519.2	3511.5	3496.1	3480.7	3447.3	3424.2	3298.5	3093.1	2800.5	2451.4
22.5°	3575.7	3570.5	3568.0	3568.0	3570.5	3557.7	3542.3	3434.5	3224.0	2895.4	2510.4
25°	3655.2	3652.7	3647.5	3642.4	3660.4	3662.9	3657.8	3583.4	3388.3	3021.2	2584.9
27.5°	3765.6	3757.9	3747.7	3742.5	3760.5	3773.3	3783.6	3732.3	3562.8	3149.6	2669.6
30°	3935.0	3911.9	3886.3	3868.3	3881.1	3901.7	3924.8	3894.0	3742.5	3308.7	2756.8
32.5°	4135.3	4107.0	4048.0	4014.6	4048.0	4063.4	4081.4	4065.9	3929.9	3480.7	2844.1
35°	4379.1	4345.7	4284.1	4235.4	4294.4	4261.0	4253.3	4237.9	4107.0	3650.1	2941.7
37.5°	4784.7	4735.9	4638.4	4530.6	4530.6	4458.7	4430.4	4384.2	4266.2	3801.6	3036.6
40°	5254.4	5190.2	5064.5	4905.3	4759.0	4610.1	4592.2	4558.8	4453.5	3976.1	3144.4
42.5°	5770.4	5647.2	5472.6	5280.1	5043.9	4874.5	4833.4	4738.5	4635.8	4153.2	3252.2
45°	6342.8	6086.1	5832.0	5734.4	5344.3	5190.2	5113.2	4941.3	4825.7	4338.0	3365.2
47.5°	6435.2	6235.0	6065.6	6050.2	5624.1	5495.7	5408.4	5162.0	5031.1	4535.7	3483.3
50°	6383.8	6263.2	6281.2	6219.6	5829.4	5744.7	5678.0	5398.2	5233.9	4725.6	3591.1
52.5°	6168.2	6235.0	6337.6	6224.7	6024.5	5955.2	5921.8	5652.3	5423.8	4900.2	3688.6
55°	5911.5	5957.7	6178.5	6317.1	6250.4	6188.8	6158.0	5947.5	5611.2	5046.5	3778.5
57.5°	5536.8	5516.2	5760.1	6301.7	6486.5	6450.6	6417.2	6237.5	5785.8	5151.7	3834.9
60°	4974.6	4931.0	5239.0	5993.7	6563.5	6620.0	6604.6	6430.1	5919.2	5149.2	3811.8
62.5°	4001.8	4109.6	4535.7	5490.6	6596.9	6740.6	6712.4	6445.5	5962.9	5000.3	3665.5
65°	2975.0	3129.0	3547.4	4797.5	6550.7	6802.3	6725.2	6193.9	5760.1	4705.1	3344.7
67.5°	2143.4	2279.4	2584.9	3947.9	6106.6	6519.9	6430.1	5783.2	5292.9	4286.7	2900.6
70°	1465.7	1563.2	1771.2	2874.9	5213.3	5636.9	5580.4	5169.7	4556.2	3788.7	2356.4
72.5°	1034.5	1075.5	1209.0	1896.9	3960.7	4422.7	4356.0	4253.3	3660.4	3149.6	1832.8
75°	775.2	800.9	872.7	1227.0	2672.1	3064.9	3003.3	3062.3	2733.7	2384.6	1334.8
77.5°	292.6	318.3	495.4	782.9	1581.2	1881.5	1819.9	1855.9	1519.6	1203.9	664.8
80°	79.6	84.7	164.3	372.2	718.7	936.9	852.2	731.6	564.7	554.4	351.7
82.5°	33.4	38.5	74.4	200.2	256.7	256.7	215.6	267.0	215.6	259.3	169.4
85°	12.8	15.4	18.0	51.3	33.4	35.9	38.5	51.3	43.6	53.9	38.5
87.5°	0.0	0.0	0.0	2.6	2.6	5.1	2.6	5.1	7.7	7.7	7.7
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: P835916

CATALOG NUMBER: ARCH3-110-740-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2074.0	2074.0	2074.0	2074.0	2074.0	2074.0	2074.0	2074.0	2074.0	2074.0	2074.0
2.5°	2061.2	2033.0	1991.9	1925.2	1855.9	1817.4	1768.6	1760.9	1709.5	1704.4	1683.9
5°	2074.0	2015.0	1909.8	1781.4	1655.6	1558.1	1486.2	1447.7	1373.3	1373.3	1352.7
7.5°	2084.3	1991.9	1822.5	1632.5	1460.6	1329.6	1232.1	1191.0	1124.3	1119.2	1103.8
10°	2086.9	1963.7	1727.5	1481.1	1270.6	1137.1	1042.2	996.0	936.9	931.8	921.5
12.5°	2107.4	1948.3	1642.8	1350.2	1134.6	990.8	898.4	859.9	813.7	808.6	798.3
15°	2140.8	1948.3	1570.9	1239.8	1013.9	880.4	800.9	764.9	731.6	726.4	721.3
17.5°	2174.2	1943.1	1499.1	1137.1	913.8	793.2	723.9	695.6	670.0	667.4	662.3
20°	2205.0	1940.6	1427.2	1049.9	836.8	721.3	667.4	641.7	621.2	621.2	618.6
22.5°	2235.8	1935.4	1357.9	967.7	770.1	667.4	621.2	593.0	577.5	577.5	575.0
25°	2282.0	1935.4	1293.7	898.4	716.2	626.3	580.1	559.6	546.7	544.2	544.2
27.5°	2335.9	1950.8	1237.2	836.8	670.0	585.3	549.3	528.8	513.4	508.2	510.8
30°	2394.9	1963.7	1185.9	782.9	626.3	554.4	515.9	495.4	480.0	474.9	477.4
32.5°	2453.9	1979.1	1139.7	734.1	582.7	526.2	487.7	464.6	449.2	446.6	446.6
35°	2518.1	1994.5	1093.5	693.1	546.7	498.0	462.0	436.4	426.1	421.0	423.5
37.5°	2582.3	2020.1	1049.9	654.6	521.1	472.3	438.9	413.3	405.6	403.0	403.0
40°	2659.3	2058.6	1031.9	628.9	498.0	449.2	421.0	395.3	387.6	387.6	387.6
42.5°	2723.5	2089.4	1016.5	600.7	480.0	428.7	403.0	382.5	377.3	374.8	377.3
45°	2787.6	2117.7	996.0	575.0	456.9	408.1	387.6	367.1	361.9	361.9	361.9
47.5°	2851.8	2133.1	967.7	549.3	436.4	390.2	372.2	354.2	349.1	349.1	349.1
50°	2903.1	2145.9	926.6	521.1	413.3	374.8	356.8	338.8	333.7	333.7	333.7
52.5°	2954.5	2148.5	883.0	487.7	390.2	356.8	341.4	323.4	318.3	315.7	315.7
55°	3000.7	2145.9	831.7	449.2	364.5	336.3	323.4	308.0	297.8	287.5	292.6
57.5°	3034.1	2143.4	772.6	410.7	338.8	315.7	310.6	290.1	269.5	243.9	249.0
60°	3021.2	2115.1	708.5	361.9	310.6	295.2	295.2	267.0	231.0	218.2	220.8
62.5°	2939.1	2035.5	641.7	310.6	282.4	274.7	272.1	241.3	213.1	200.2	202.8
65°	2692.7	1835.3	544.2	264.4	254.1	251.6	251.6	223.3	197.7	182.2	184.8
67.5°	2317.9	1540.1	444.1	223.3	225.9	231.0	231.0	205.4	179.7	164.3	166.8
70°	1858.4	1203.9	354.2	192.5	195.1	202.8	207.9	184.8	161.7	146.3	146.3
72.5°	1399.0	913.8	284.9	161.7	174.5	174.5	182.2	164.3	141.2	125.8	128.3
75°	1013.9	654.6	225.9	136.0	151.4	148.9	148.9	138.6	120.6	110.4	110.4
77.5°	480.0	344.0	179.7	97.5	118.1	115.5	118.1	110.4	102.7	92.4	95.0
80°	236.2	169.4	115.5	69.3	82.1	84.7	92.4	87.3	84.7	77.0	77.0
82.5°	112.9	66.7	53.9	48.8	56.5	59.0	64.2	64.2	66.7	61.6	61.6
85°	30.8	18.0	23.1	30.8	35.9	38.5	43.6	46.2	46.2	43.6	46.2
87.5°	7.7	7.7	10.3	15.4	18.0	20.5	23.1	23.1	10.3	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)