

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: P836774

Luminaire Tested: **ARCH3-70-740-U-T2R-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836774
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-70-740-U-T2R-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 4000K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8754 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

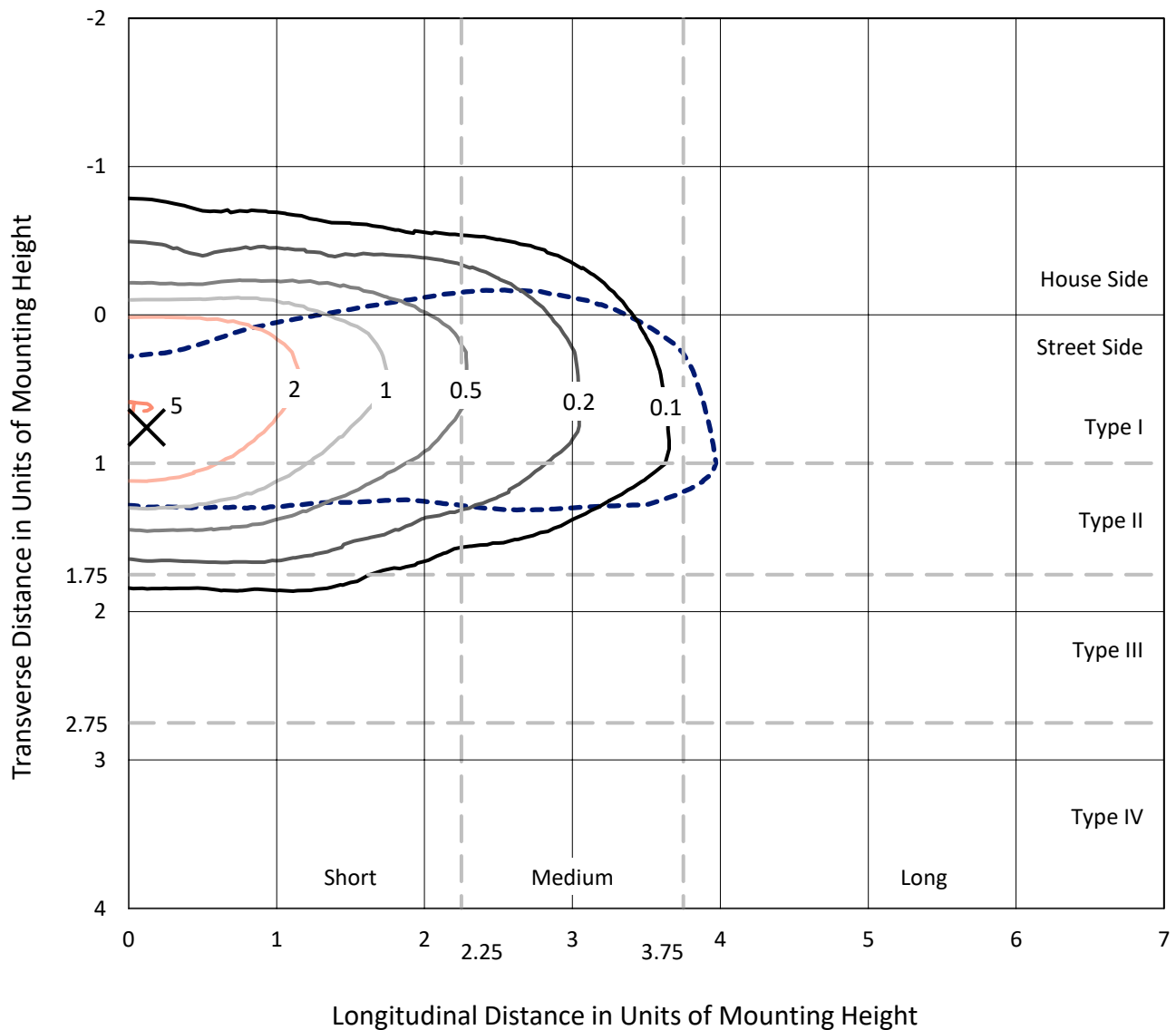


REPORT NUMBER: P836774

CATALOG NUMBER: ARCH3-70-740-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

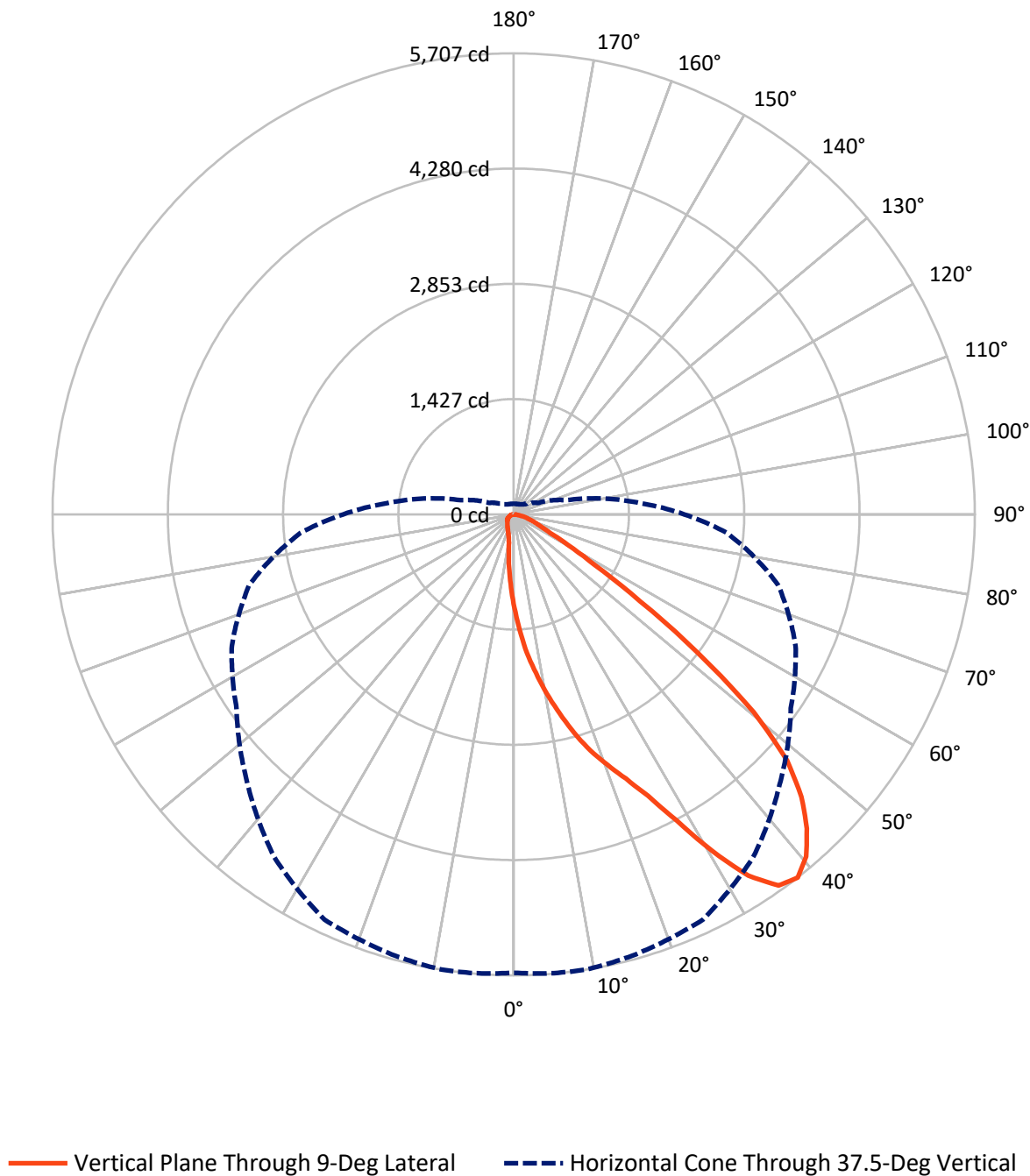


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
Type II - Short - N/A

REPORT NUMBER: P836774

CATALOG NUMBER: ARCH3-70-740-U-T2R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P836774

CATALOG NUMBER: ARCH3-70-740-U-T2R-HSS

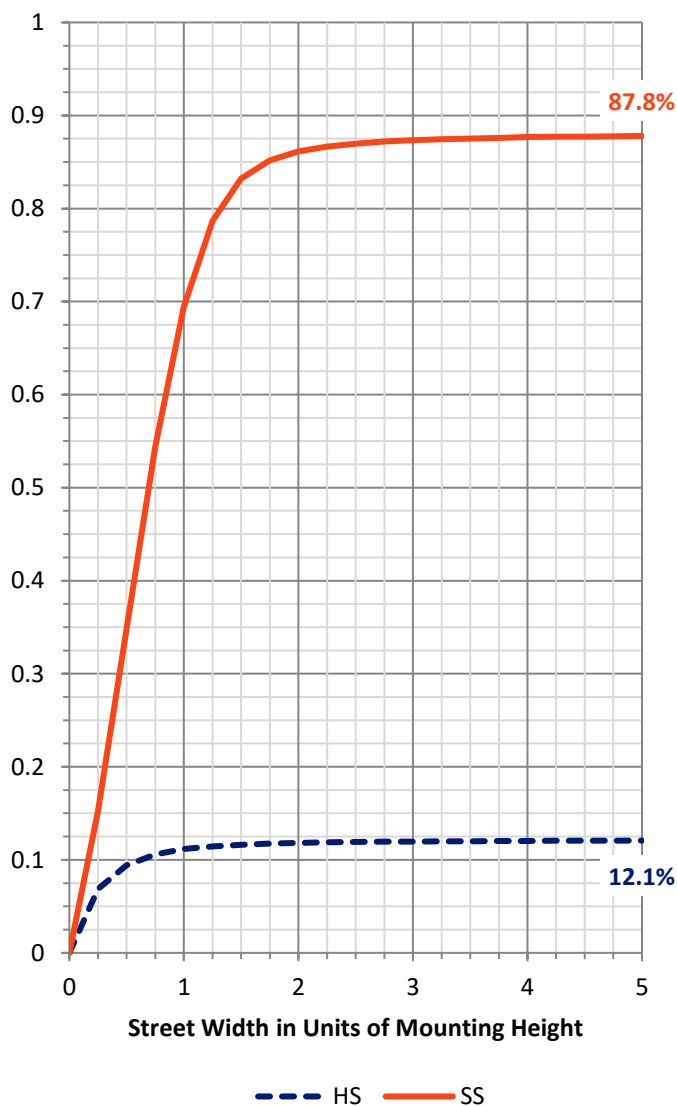
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1064.7	0.0	1064.7
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	7689.4	0.0	7689.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	8754.0	0.0	8754.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.3	1.3
10°-20°	404.3	4.6
20°-30°	830.7	9.5
30°-40°	1468.3	16.8
40°-50°	1950.5	22.3
50°-60°	1849.9	21.1
60°-70°	1411.3	16.1
70°-80°	684.2	7.8
80°-90°	38.5	0.4
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°	8754.0	100.0
0°-180°	8754.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836774

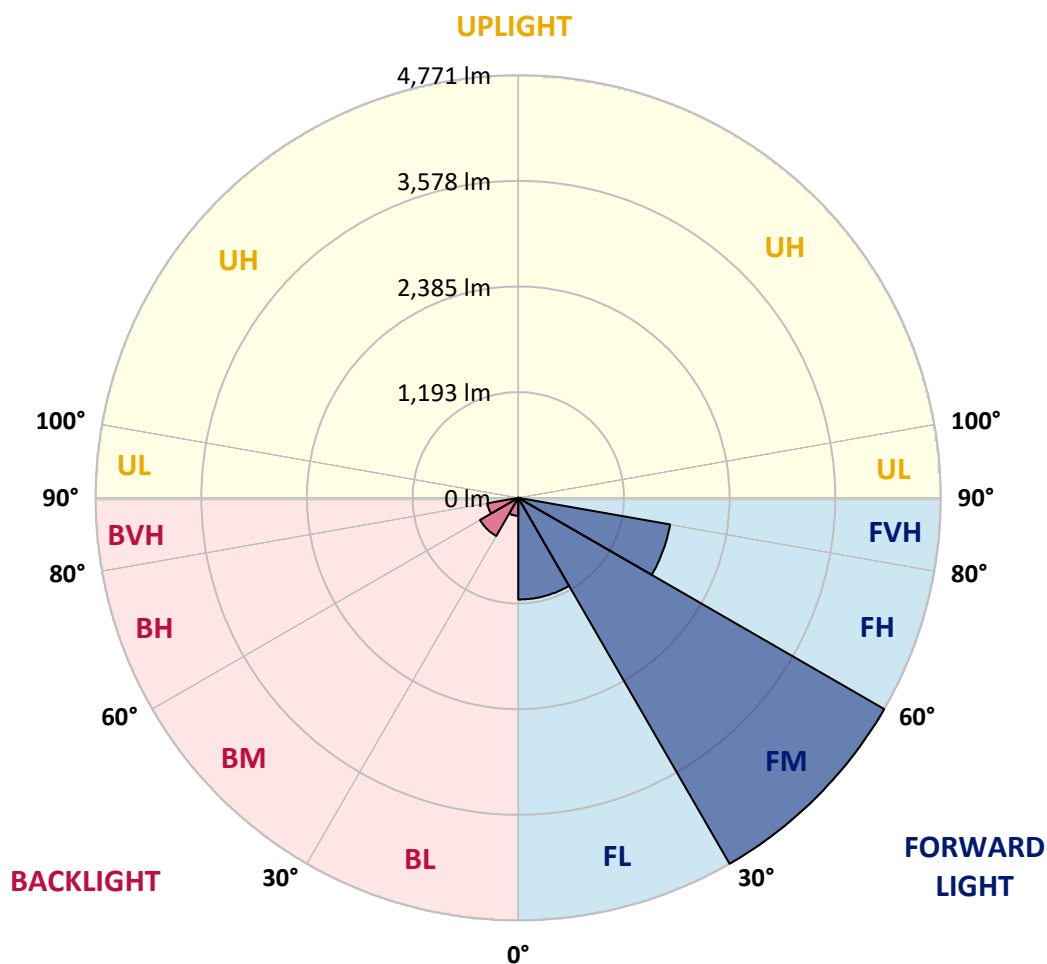
CATALOG NUMBER: ARCH3-70-740-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1148.1	13.1			
FM	(30°-60°)	4770.5	54.5			
FH	(60°-80°)	1740.3	19.9			G1/1800
FVH	(80°-90°)	30.5	0.3			G1/100
BL	(0°-30°)	203.2	2.3	B1/500		
BM	(30°-60°)	498.2	5.7	B1/1000		
BH	(60°-80°)	355.3	4.1	B1/500		G1/500
BVH	(80°-90°)	8.0	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



REPORT NUMBER: P836774

CATALOG NUMBER: ARCH3-70-740-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	9°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1157.2	1157.2	1157.2	1157.2	1157.2	1157.2	1157.2	1157.2	1157.2	1157.2	1157.2
2.5°	1433.9	1408.7	1437.5	1433.9	1408.7	1392.6	1342.2	1326.1	1266.8	1223.7	1185.9
5°	1728.6	1703.4	1728.6	1721.4	1685.4	1645.9	1563.3	1509.4	1403.3	1309.9	1225.5
7.5°	1972.9	1972.9	1983.7	1985.5	1942.4	1881.3	1778.9	1698.0	1548.9	1405.1	1270.4
10°	2237.1	2238.9	2262.2	2246.1	2188.6	2105.9	1976.5	1874.1	1694.4	1505.8	1313.5
12.5°	2519.2	2521.0	2528.2	2521.0	2452.7	2346.7	2190.4	2055.6	1849.0	1620.8	1372.8
15°	2801.3	2803.1	2812.1	2799.5	2724.0	2600.0	2422.2	2256.8	2012.5	1750.1	1444.7
17.5°	3065.4	3069.0	3076.2	3060.0	2981.0	2833.6	2652.2	2452.7	2186.8	1888.5	1525.5
20°	3302.6	3306.2	3311.6	3290.0	3211.0	3063.6	2867.8	2659.3	2364.7	2030.4	1613.6
22.5°	3541.6	3545.2	3554.2	3525.4	3437.4	3268.5	3076.2	2860.6	2553.3	2186.8	1716.0
25°	3847.1	3850.7	3857.8	3816.5	3696.1	3498.5	3295.4	3074.4	2758.2	2362.9	1841.8
27.5°	4294.5	4290.9	4290.9	4215.4	4008.8	3751.8	3516.4	3291.8	2979.2	2551.5	1980.1
30°	4847.9	4838.9	4833.5	4731.1	4436.4	4037.5	3742.8	3494.9	3191.2	2751.0	2129.3
32.5°	5343.8	5343.8	5333.1	5225.2	4912.6	4422.1	3983.6	3692.5	3396.1	2952.2	2283.8
35°	5636.7	5649.3	5643.9	5563.1	5334.9	4835.3	4308.9	3929.7	3611.7	3162.5	2468.9
37.5°	5676.3	5701.4	5706.8	5658.3	5537.9	5173.1	4670.0	4186.7	3848.9	3388.9	2648.6
40°	5516.3	5570.2	5570.2	5563.1	5519.9	5333.1	4973.7	4484.9	4093.2	3624.3	2830.0
42.5°	5270.2	5325.9	5318.7	5345.6	5334.9	5295.3	5144.4	4763.5	4337.6	3866.8	2995.4
45°	4948.5	5006.0	4991.7	5040.2	5061.7	5104.9	5126.4	4957.5	4578.4	4131.0	3180.4
47.5°	4432.8	4529.9	4551.4	4637.7	4727.5	4862.3	4964.7	5027.6	4803.0	4414.9	3381.7
50°	3671.0	3807.5	3850.7	4032.1	4278.3	4556.8	4722.1	4941.3	4961.1	4706.0	3599.1
52.5°	2628.8	2786.9	2853.4	3151.7	3658.4	4143.5	4441.8	4750.9	5022.2	4984.5	3834.5
55°	1699.8	1834.6	1899.3	2179.6	2853.4	3615.3	4111.2	4504.7	4988.1	5239.6	4104.0
57.5°	1047.6	1124.8	1168.0	1408.7	2028.6	2937.9	3678.2	4278.3	4883.8	5460.6	4384.3
60°	706.2	751.1	772.6	885.8	1378.2	2195.8	3083.4	4041.1	4747.3	5609.8	4639.5
62.5°	469.0	483.4	504.9	575.0	909.2	1541.7	2368.3	3617.1	4644.9	5618.8	4828.1
65°	363.0	370.2	379.1	409.7	560.6	1078.1	1665.7	2930.7	4492.1	5428.3	4887.4
67.5°	285.7	292.9	303.7	319.8	406.1	731.3	1133.8	2147.2	4179.5	5130.0	4790.4
70°	224.6	230.0	237.2	251.6	316.2	530.1	749.3	1426.7	3548.8	4846.1	4484.9
72.5°	177.9	183.3	190.5	204.8	256.9	388.1	513.9	889.4	2736.6	4499.3	3897.4
75°	140.2	143.7	149.1	163.5	206.6	301.9	348.6	531.9	1859.7	3865.0	3036.7
77.5°	70.1	86.2	98.8	113.2	150.9	208.4	231.8	294.7	785.2	1983.7	1448.3
80°	41.3	50.3	53.9	62.9	98.8	125.8	125.8	118.6	248.0	761.9	591.2
82.5°	23.4	32.3	34.1	35.9	59.3	71.9	57.5	43.1	50.3	255.2	172.5
85°	7.2	10.8	12.6	14.4	19.8	21.6	19.8	18.0	14.4	25.2	16.2
87.5°	0.0	0.0	0.0	0.0	1.8	3.6	3.6	3.6	5.4	5.4	5.4
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: P836774

CATALOG NUMBER: ARCH3-70-740-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1157.2	1157.2	1157.2	1157.2	1157.2	1157.2	1157.2	1157.2	1157.2	1157.2	1157.2
2.5°	1164.4	1141.0	1096.1	1054.8	1015.2	986.5	959.5	934.4	916.4	902.0	900.2
5°	1180.5	1133.8	1047.6	966.7	893.0	831.9	779.8	738.5	708.0	686.4	684.6
7.5°	1202.1	1130.2	999.0	878.7	769.1	681.0	605.5	549.8	510.3	494.1	481.6
10°	1220.1	1126.6	950.5	790.6	646.9	535.5	445.6	389.9	361.2	350.4	345.0
12.5°	1250.6	1130.2	909.2	709.8	540.9	409.7	341.4	310.9	298.3	289.3	287.5
15°	1295.5	1146.4	869.7	630.7	433.0	330.6	291.1	271.3	258.7	256.9	255.2
17.5°	1340.5	1160.8	833.7	549.8	359.4	287.5	260.5	244.4	235.4	233.6	233.6
20°	1392.6	1178.7	794.2	472.6	307.3	258.7	237.2	224.6	213.8	212.0	212.0
22.5°	1453.7	1203.9	756.5	404.3	273.1	237.2	219.2	204.8	195.9	194.1	194.1
25°	1536.3	1241.6	725.9	354.0	249.8	219.2	203.0	190.5	183.3	179.7	179.7
27.5°	1627.9	1293.7	704.4	323.4	233.6	204.8	188.7	177.9	170.7	167.1	167.1
30°	1730.4	1351.2	690.0	310.9	224.6	192.3	177.9	167.1	158.1	156.3	156.3
32.5°	1843.6	1417.7	681.0	312.7	222.8	183.3	167.1	156.3	149.1	145.5	145.5
35°	1969.4	1491.4	675.6	323.4	226.4	176.1	158.1	147.3	140.2	136.6	136.6
37.5°	2109.5	1577.6	675.6	334.2	235.4	174.3	149.1	138.4	133.0	129.4	129.4
40°	2240.7	1669.3	682.8	346.8	244.4	174.3	142.0	133.0	125.8	122.2	122.2
42.5°	2343.1	1721.4	688.2	359.4	249.8	172.5	134.8	125.8	120.4	116.8	116.8
45°	2459.9	1777.1	677.4	364.8	249.8	168.9	129.4	120.4	115.0	111.4	111.4
47.5°	2589.3	1845.4	675.6	368.4	244.4	161.7	124.0	115.0	111.4	107.8	107.8
50°	2720.4	1920.8	679.2	366.6	237.2	150.9	116.8	111.4	106.0	102.4	102.4
52.5°	2869.6	1999.9	686.4	363.0	221.0	138.4	111.4	106.0	100.6	97.0	95.2
55°	3034.9	2086.1	700.8	355.8	199.5	125.8	106.0	100.6	93.4	89.8	88.0
57.5°	3225.3	2192.2	716.9	341.4	176.1	115.0	100.6	93.4	82.7	77.3	75.5
60°	3406.8	2312.5	734.9	307.3	152.7	104.2	95.2	84.5	73.7	70.1	68.3
62.5°	3577.5	2431.1	743.9	246.2	129.4	95.2	89.8	77.3	66.5	62.9	61.1
65°	3687.1	2560.5	724.1	167.1	106.0	88.0	82.7	71.9	61.1	55.7	55.7
67.5°	3694.3	2621.6	655.9	109.6	86.2	79.1	75.5	64.7	53.9	50.3	48.5
70°	3512.8	2530.0	501.3	86.2	71.9	68.3	68.3	57.5	46.7	43.1	41.3
72.5°	3096.0	2240.7	319.8	70.1	61.1	57.5	57.5	48.5	41.3	35.9	34.1
75°	2443.7	1728.6	170.7	57.5	50.3	48.5	44.9	39.5	34.1	30.5	28.7
77.5°	1123.0	761.9	79.1	41.3	37.7	37.7	34.1	28.7	27.0	23.4	23.4
80°	443.8	258.7	39.5	27.0	25.2	25.2	25.2	19.8	19.8	16.2	14.4
82.5°	122.2	53.9	19.8	16.2	16.2	16.2	14.4	12.6	12.6	10.8	10.8
85°	12.6	9.0	9.0	9.0	9.0	7.2	7.2	5.4	3.6	3.6	3.6
87.5°	5.4	5.4	5.4	5.4	5.4	3.6	1.8	0.0	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)