

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: P836686

Luminaire Tested: **ARCH3-60-730-U-T2U-HSS**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836686
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-60-730-U-T2U-HSS
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 505mA LIGHTSQUARE WITH 40 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7160 lumens
Efficiency: N/A
Efficacy: 113.3 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): 63.2
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



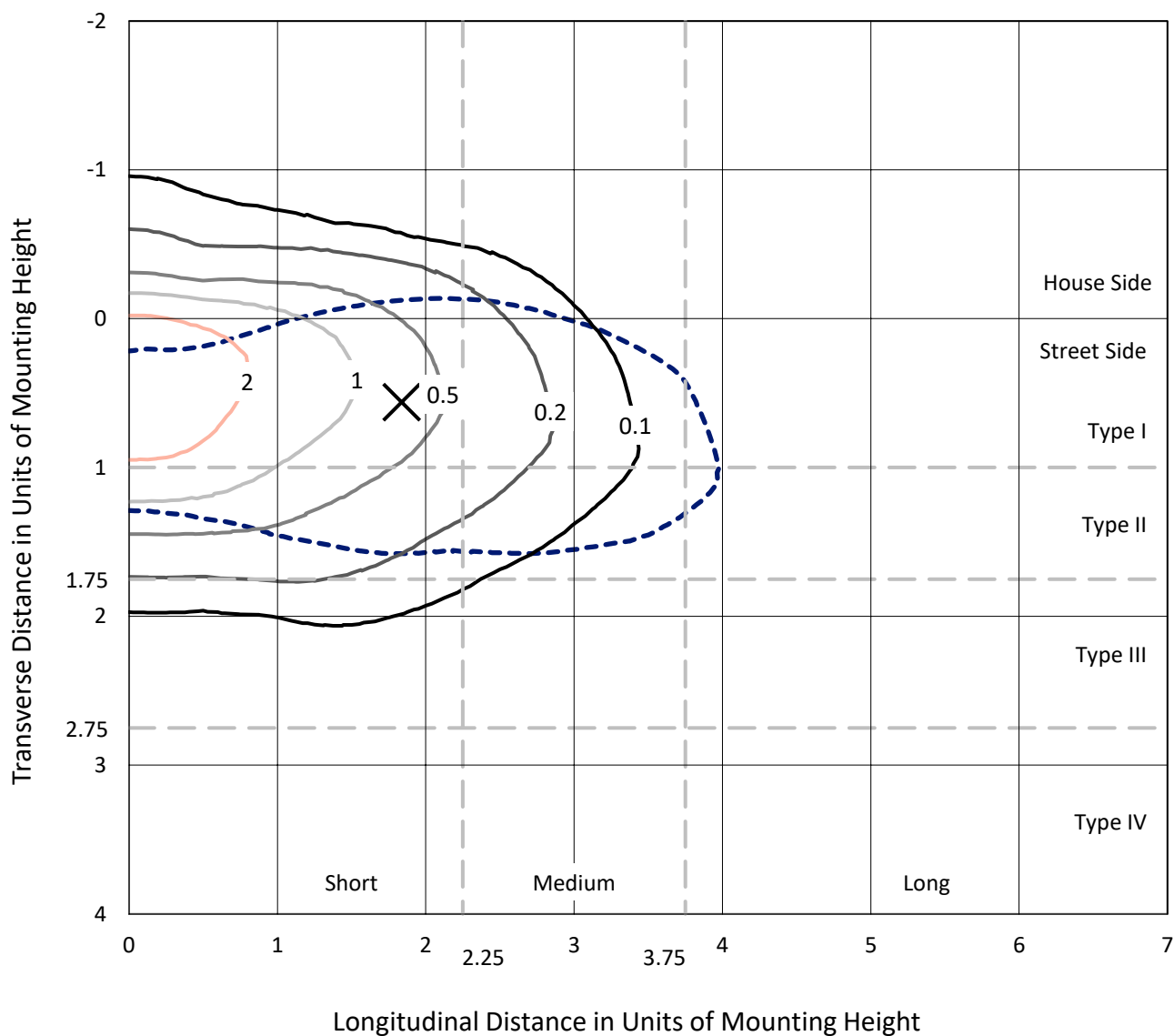
REPORT NUMBER: P836686

CATALOG NUMBER: ARCH3-60-730-U-T2U-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

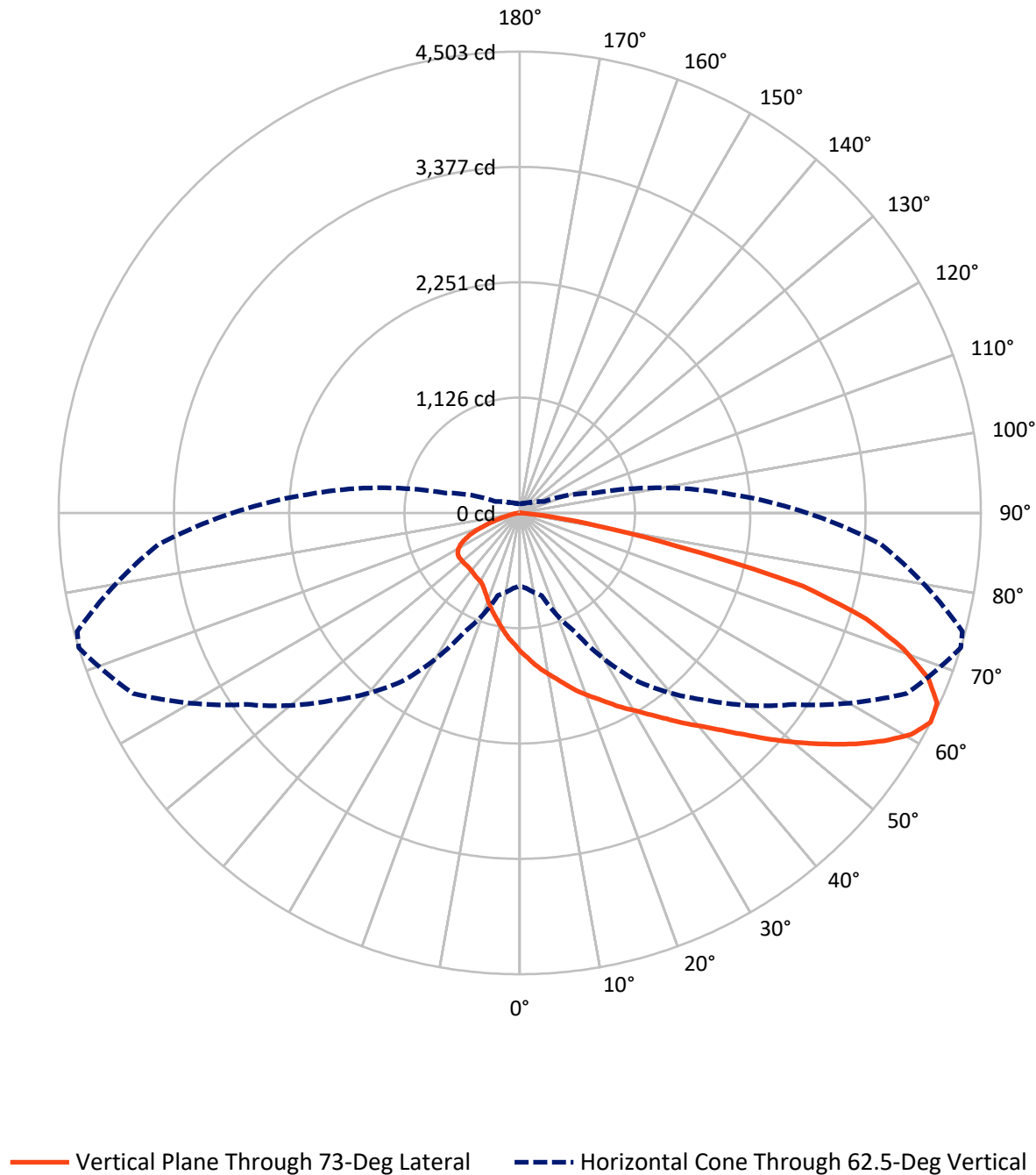


Based on 25 foot mounting height. Maximum calculated value = 3.4 fc

Type II - Short - N/A

REPORT NUMBER: P836686
CATALOG NUMBER: ARCH3-60-730-U-T2U-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P836686

CATALOG NUMBER: ARCH3-60-730-U-T2U-HSS

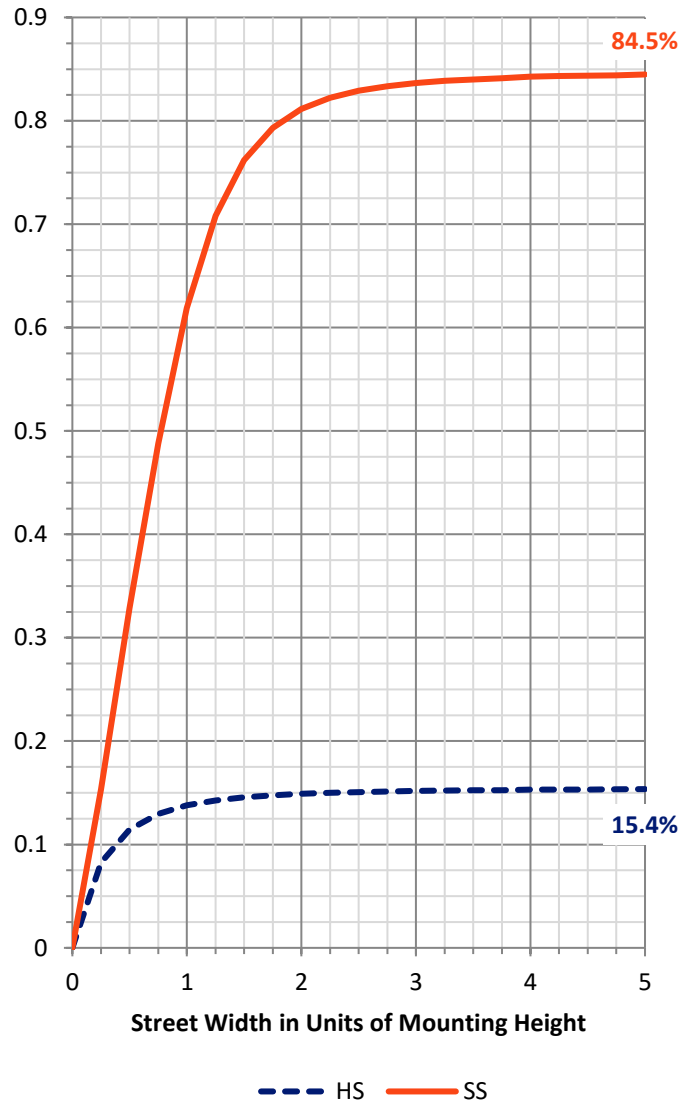
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1109.9	0.0	1109.9
	% Fixture	15.5	0.0	15.5
Street Side	Lumens	6050.1	0.0	6050.1
	% Fixture	84.5	0.0	84.5
Total	Lumens	7160.0	0.0	7160.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.0	1.8
10°-20°	395.2	5.5
20°-30°	657.9	9.2
30°-40°	992.6	13.9
40°-50°	1387.4	19.4
50°-60°	1532.5	21.4
60°-70°	1335.0	18.6
70°-80°	674.3	9.4
80°-90°	54.1	0.8
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°	7160.0	100.0
0°-180°	7160.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836686

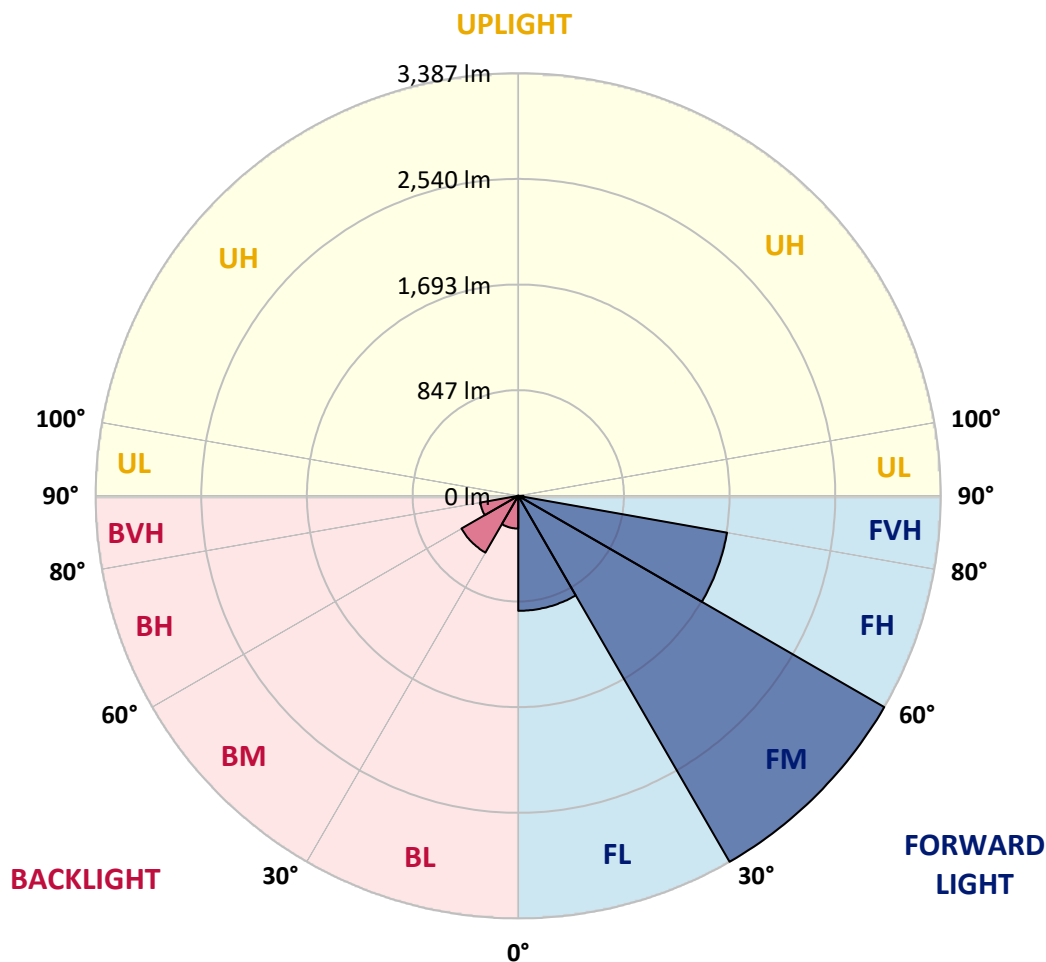
CATALOG NUMBER: ARCH3-60-730-U-T2U-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	921.7	12.9			
FM	(30°-60°)	3386.9	47.3			
FH	(60°-80°)	1699.5	23.7			G1/1800
FVH	(80°-90°)	41.9	0.6			G1/100
BL	(0°-30°)	262.3	3.7	B1/500		
BM	(30°-60°)	525.5	7.3	B1/1000		
BH	(60°-80°)	309.8	4.3	B1/500		G1/500
BVH	(80°-90°)	12.2	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-G1

Type II Short



REPORT NUMBER: P836686

CATALOG NUMBER: ARCH3-60-730-U-T2U-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	73°	75°	85°
0°	1355.8	1355.8	1355.8	1355.8	1355.8	1355.8	1355.8	1355.8	1355.8	1355.8	1355.8
2.5°	1543.0	1560.1	1550.8	1557.0	1525.8	1505.5	1482.1	1436.9	1411.9	1408.8	1379.2
5°	1769.2	1787.9	1772.3	1767.6	1713.0	1666.2	1613.2	1533.6	1480.6	1471.2	1405.7
7.5°	1995.4	2012.6	1993.9	1979.8	1906.5	1823.8	1745.8	1628.8	1546.1	1530.5	1427.5
10°	2154.6	2170.2	2156.1	2142.1	2065.6	1981.4	1870.6	1717.7	1605.4	1580.4	1441.6
12.5°	2274.7	2284.0	2277.8	2265.3	2193.6	2103.1	1997.0	1817.6	1672.5	1641.3	1463.4
15°	2373.0	2388.6	2380.8	2371.4	2302.8	2212.3	2110.9	1922.1	1750.5	1711.5	1496.2
17.5°	2438.5	2449.4	2451.0	2451.0	2390.1	2301.2	2202.9	2017.3	1828.5	1778.6	1527.4
20°	2468.1	2480.6	2488.4	2500.9	2451.0	2374.5	2274.7	2098.4	1901.8	1845.6	1557.0
22.5°	2482.2	2493.1	2513.4	2541.5	2500.9	2436.9	2344.9	2173.3	1975.1	1915.9	1591.3
25°	2493.1	2507.1	2536.8	2589.8	2561.7	2507.1	2427.6	2259.1	2062.5	2001.7	1641.3
27.5°	2522.7	2539.9	2568.0	2632.0	2597.6	2571.1	2514.9	2351.1	2154.6	2092.1	1702.1
30°	2625.7	2639.8	2638.2	2678.8	2636.6	2628.8	2589.8	2440.1	2243.5	2181.1	1773.9
32.5°	2812.9	2827.0	2792.6	2777.0	2685.0	2686.6	2671.0	2535.2	2349.6	2285.6	1856.6
35°	3014.2	3029.8	2984.5	2958.0	2803.6	2758.3	2766.1	2653.8	2468.1	2404.2	1959.5
37.5°	3193.6	3212.3	3173.3	3134.3	2978.3	2873.8	2872.2	2786.4	2603.9	2538.3	2073.4
40°	3291.9	3313.7	3337.1	3315.3	3151.5	3036.0	2986.1	2922.1	2738.0	2671.0	2196.7
42.5°	3338.7	3399.5	3441.7	3427.6	3293.5	3176.4	3117.2	3064.1	2901.9	2836.3	2343.3
45°	3207.6	3209.2	3298.1	3374.6	3349.6	3271.6	3260.7	3223.2	3089.1	3026.7	2508.7
47.5°	3043.8	3031.4	3093.8	3229.5	3299.7	3320.0	3383.9	3399.5	3302.8	3240.4	2677.2
50°	2650.7	2658.5	2861.3	3056.3	3193.6	3324.7	3471.3	3580.5	3522.8	3463.5	2855.1
52.5°	2156.1	2174.8	2407.3	2836.3	3053.2	3277.9	3522.8	3761.5	3747.5	3691.3	3032.9
55°	1728.6	1758.3	2004.8	2469.7	2873.8	3173.3	3544.6	3926.9	3979.9	3928.4	3207.6
57.5°	1321.4	1352.6	1560.1	2037.5	2644.4	3003.3	3529.0	4072.0	4196.8	4164.0	3368.3
60°	995.4	1026.6	1159.2	1652.2	2357.4	2812.9	3451.0	4167.1	4391.8	4357.5	3485.4
62.5°	713.0	737.9	836.2	1285.6	2007.9	2586.7	3259.1	4168.7	4502.6	4474.5	3541.5
65°	513.3	513.3	592.9	917.4	1680.3	2315.2	2968.9	3976.8	4479.2	4471.4	3502.5
67.5°	369.8	372.9	436.8	641.2	1340.2	1986.1	2593.0	3635.1	4298.2	4337.2	3362.1
70°	262.1	269.9	299.5	447.8	1012.5	1567.9	2190.4	3187.4	3972.1	4040.8	3090.6
72.5°	202.8	207.5	227.8	312.0	739.5	1165.4	1745.8	2688.1	3536.8	3614.8	2720.9
75°	156.0	160.7	176.3	229.3	530.4	817.5	1240.3	2085.9	2851.9	2990.8	2185.8
77.5°	113.9	120.1	131.1	166.9	308.9	519.5	752.0	1173.2	1574.2	1639.7	1145.1
80°	53.0	60.8	76.4	107.6	166.9	244.9	266.8	452.4	756.7	791.0	620.9
82.5°	29.6	37.4	43.7	65.5	84.2	87.4	90.5	113.9	285.5	315.1	260.5
85°	14.0	18.7	20.3	28.1	28.1	25.0	29.6	21.8	46.8	56.2	54.6
87.5°	0.0	1.6	3.1	7.8	6.2	4.7	4.7	4.7	4.7	6.2	4.7
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: P836686

CATALOG NUMBER: ARCH3-60-730-U-T2U-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1355.8	1355.8	1355.8	1355.8	1355.8	1355.8	1355.8	1355.8	1355.8	1355.8	1355.8
2.5°	1365.1	1344.8	1298.0	1257.5	1231.0	1207.5	1176.3	1162.3	1137.3	1142.0	1128.0
5°	1372.9	1335.5	1252.8	1176.3	1120.2	1070.3	1015.7	984.4	950.1	947.0	936.1
7.5°	1377.6	1319.9	1201.3	1093.7	1007.9	931.4	858.1	817.5	775.4	766.0	756.7
10°	1372.9	1296.5	1148.3	1007.9	894.0	798.8	716.1	664.6	620.9	610.0	600.7
12.5°	1377.6	1284.0	1098.3	928.3	792.6	684.9	591.3	538.2	497.7	486.8	480.5
15°	1388.5	1276.2	1056.2	856.5	702.1	581.9	489.9	444.6	411.9	401.0	397.8
17.5°	1397.9	1268.4	1011.0	786.3	611.6	491.4	411.9	374.4	346.4	335.4	332.3
20°	1410.4	1257.5	965.7	719.2	532.0	419.7	349.5	316.7	294.9	287.1	285.5
22.5°	1421.3	1249.7	923.6	652.1	458.7	362.0	302.7	276.1	260.5	252.7	252.7
25°	1449.4	1252.8	887.7	589.7	404.1	316.7	266.8	246.5	234.0	229.3	229.3
27.5°	1482.1	1265.3	859.6	536.7	357.3	282.4	241.8	224.7	218.4	212.2	213.7
30°	1528.9	1290.2	840.9	493.0	322.9	255.9	221.5	209.1	202.8	201.3	201.3
32.5°	1588.2	1330.8	839.4	464.9	298.0	235.6	207.5	196.6	193.5	191.9	191.9
35°	1658.4	1366.7	830.0	452.4	282.4	221.5	196.6	188.8	187.2	187.2	187.2
37.5°	1742.7	1426.0	823.8	435.3	274.6	213.7	188.8	182.5	182.5	182.5	182.5
40°	1830.0	1474.3	814.4	419.7	271.5	209.1	184.1	176.3	176.3	176.3	176.3
42.5°	1934.6	1544.5	811.3	411.9	266.8	205.9	177.9	168.5	170.1	170.1	171.6
45°	2060.9	1624.1	809.7	404.1	265.2	202.8	171.6	160.7	162.3	160.7	160.7
47.5°	2188.9	1716.2	814.4	399.4	263.7	199.7	166.9	152.9	152.9	151.3	151.3
50°	2323.0	1800.4	817.5	394.7	260.5	193.5	159.1	146.7	143.5	140.4	142.0
52.5°	2449.4	1878.4	819.1	386.9	251.2	184.1	152.9	138.9	134.2	129.5	131.1
55°	2575.8	1953.3	822.2	377.6	238.7	174.7	145.1	131.1	124.8	118.6	118.6
57.5°	2689.7	2018.8	814.4	354.2	224.7	165.4	137.3	121.7	112.3	106.1	106.1
60°	2767.7	2065.6	791.0	319.8	205.9	154.5	129.5	112.3	101.4	96.7	96.7
62.5°	2805.1	2073.4	748.9	263.7	182.5	143.5	120.1	103.0	93.6	90.5	90.5
65°	2769.2	2039.1	683.3	198.1	157.6	131.1	110.8	95.2	85.8	78.0	78.0
67.5°	2644.4	1942.4	592.9	149.8	134.2	118.6	101.4	87.4	76.4	70.2	70.2
70°	2393.3	1741.1	458.7	120.1	113.9	103.0	92.0	78.0	68.6	60.8	60.8
72.5°	2064.1	1475.9	322.9	96.7	96.7	87.4	78.0	68.6	59.3	53.0	53.0
75°	1583.5	1092.1	216.9	78.0	79.6	73.3	64.0	56.2	49.9	45.2	45.2
77.5°	864.3	539.8	132.6	57.7	59.3	56.2	49.9	45.2	42.1	37.4	37.4
80°	419.7	237.1	76.4	40.6	42.1	40.6	37.4	32.8	32.8	29.6	29.6
82.5°	176.3	88.9	40.6	28.1	28.1	25.0	23.4	23.4	23.4	21.8	21.8
85°	43.7	17.2	17.2	15.6	15.6	15.6	14.0	14.0	14.0	10.9	12.5
87.5°	6.2	6.2	6.2	6.2	6.2	6.2	4.7	1.6	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)