

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: P1211595

Luminaire Tested: **ARCH4-50-750-U-T3RE**

Issue Date: 11/5/2025

Test Information

Test Method: LM-79-08
Report Number: P1211595
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2510-578-2)
Test Lab: INNOVATION CENTER
Issue Date: 11/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-50-750-U-T3RE
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 5000K, 435mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
ROADWAY ILLUMINANCE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9485 lumens
Efficiency: N/A
Efficacy: 178.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 53.2
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

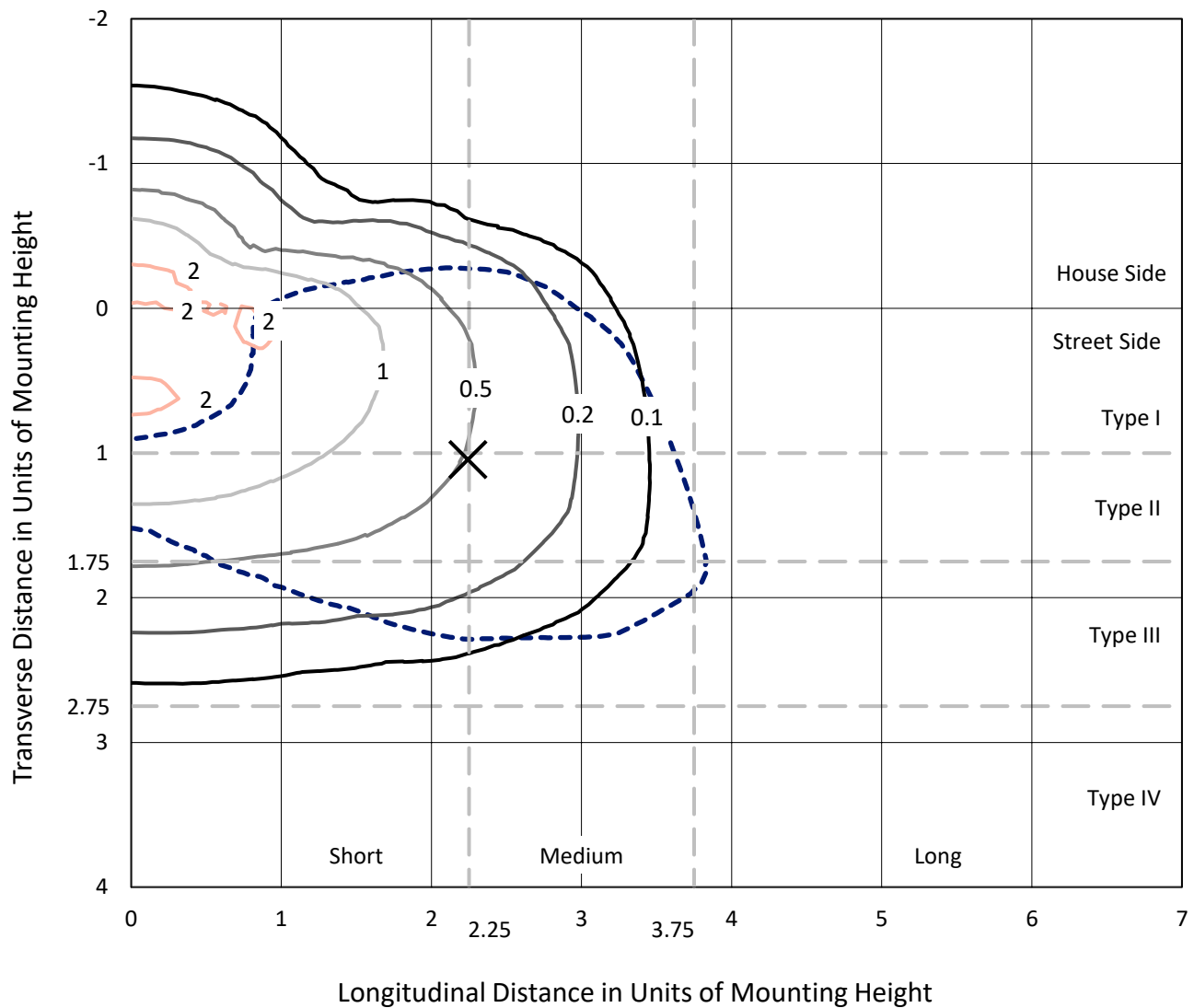


REPORT NUMBER: P1211595

CATALOG NUMBER: ARCH4-50-750-U-T3RE

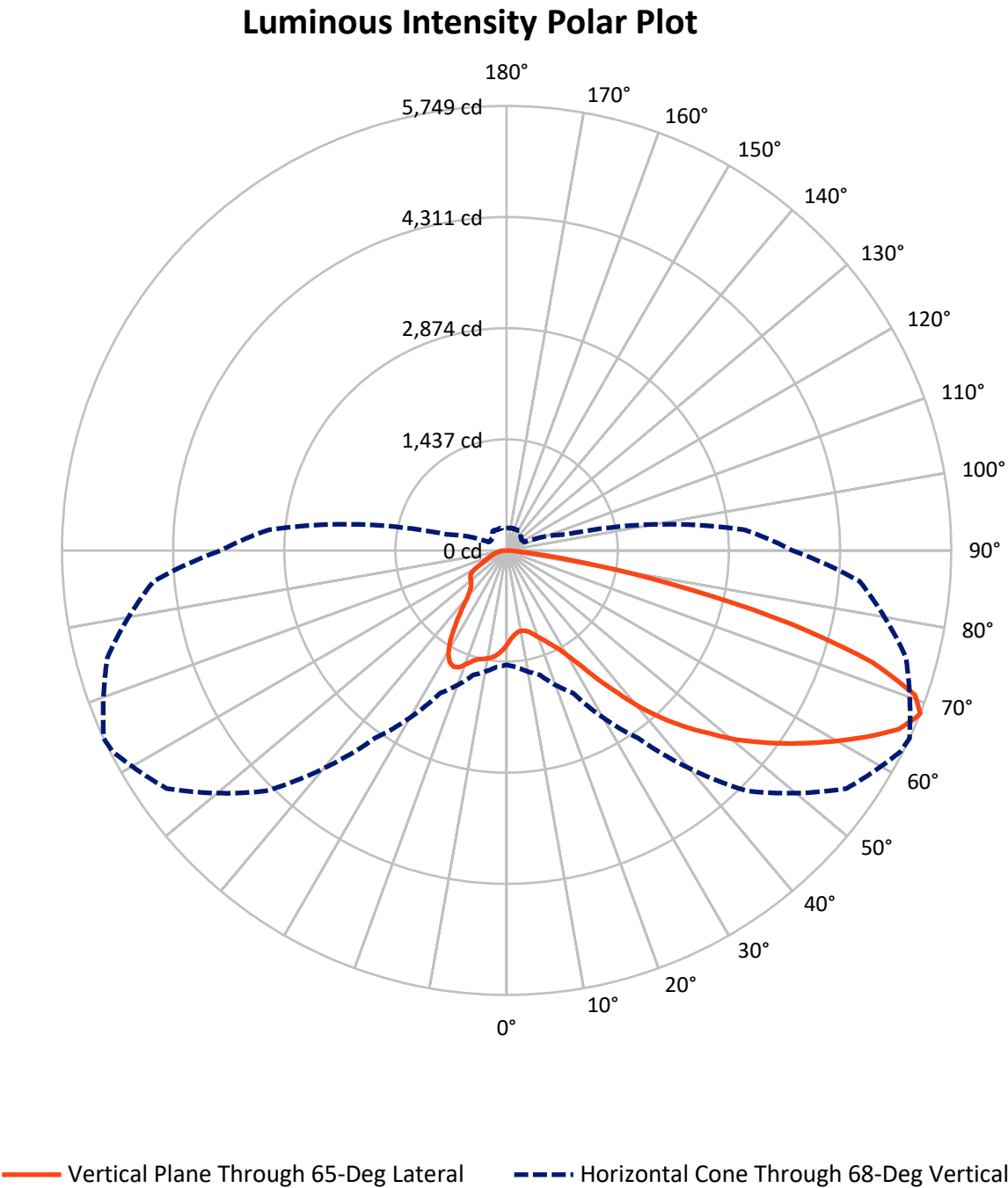
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
Type III - Short - N/A

REPORT NUMBER: P1211595
CATALOG NUMBER: ARCH4-50-750-U-T3RE



REPORT NUMBER: P1211595

CATALOG NUMBER: ARCH4-50-750-U-T3RE

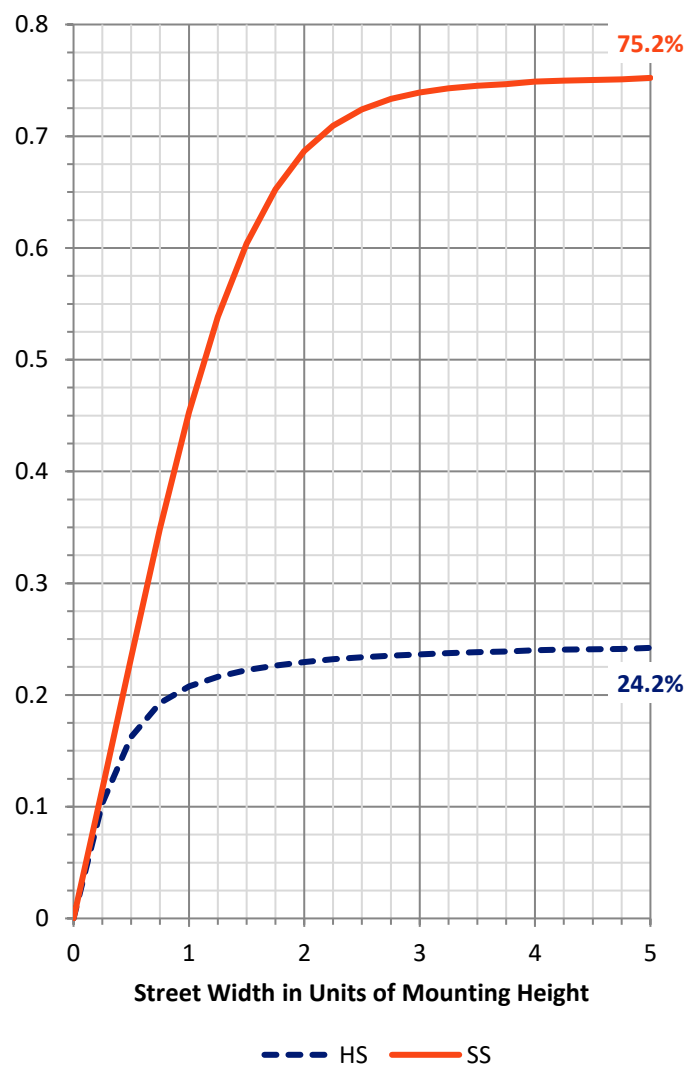
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2325.4	0.0	2325.4
	% Fixture	24.5	0.0	24.5
Street Side	Lumens	7159.6	0.0	7159.6
	% Fixture	75.5	0.0	75.5
Total	Lumens	9485.0	0.0	9485.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.8	1.2
10°-20°	377.2	4.0
20°-30°	682.6	7.2
30°-40°	1073.9	11.3
40°-50°	1599.4	16.9
50°-60°	2098.1	22.1
60°-70°	2294.4	24.2
70°-80°	1135.3	12.0
80°-90°	108.3	1.1
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°	9485.0	100.0
0°-180°	9485.0	100.0

Coefficient of Utilization



REPORT NUMBER: P1211595

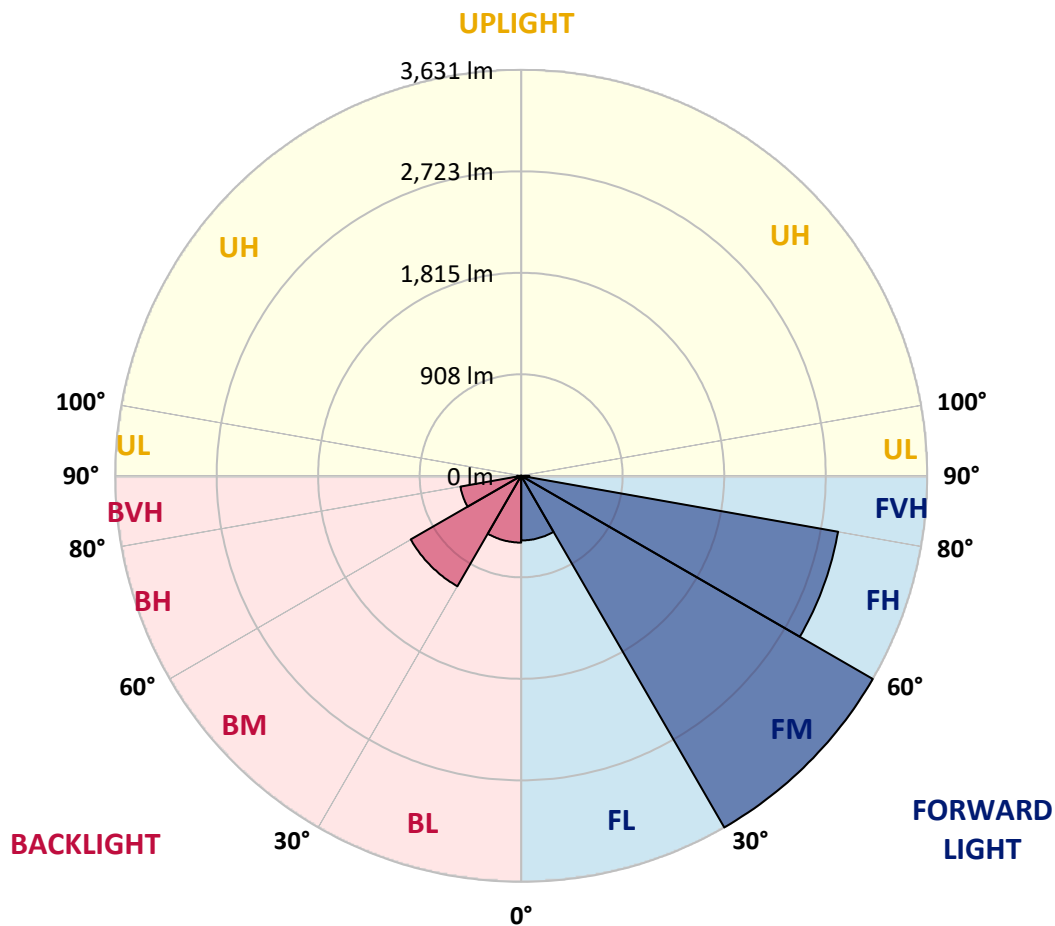
CATALOG NUMBER: ARCH4-50-750-U-T3RE

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	578.2	6.1			
FM	(30°-60°)	3630.7	38.3			
FH	(60°-80°)	2877.8	30.3			G2/5000
FVH	(80°-90°)	72.8	0.8			G1/100
BL	(0°-30°)	597.4	6.3	B2/1000		
BM	(30°-60°)	1140.6	12.0	B2/2500		
BH	(60°-80°)	551.9	5.8	B2/1000		G2/1000
BVH	(80°-90°)	35.5	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 III Short



REPORT NUMBER: P1211595

CATALOG NUMBER: ARCH4-50-750-U-T3RE

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1212.1	1212.1	1212.1	1212.1	1212.1	1212.1	1212.1	1212.1	1212.1	1212.1	1212.1
2.5°	1058.0	1055.5	1061.6	1067.7	1081.2	1097.1	1119.1	1137.5	1139.9	1174.2	1201.1
5°	995.6	991.9	998.0	1005.4	1011.5	1031.1	1054.3	1081.2	1092.2	1142.4	1199.8
7.5°	1001.7	1000.5	1002.9	1000.5	1000.5	1009.0	1024.9	1051.8	1064.1	1124.0	1206.0
10°	1037.2	1039.6	1040.8	1033.5	1026.2	1022.5	1027.4	1045.7	1054.3	1125.2	1232.9
12.5°	1095.9	1099.5	1100.8	1087.3	1077.5	1061.6	1053.1	1060.4	1066.5	1137.5	1270.8
15°	1175.4	1177.8	1169.3	1160.7	1136.2	1116.7	1095.9	1089.8	1092.2	1163.1	1313.6
17.5°	1268.3	1264.7	1264.7	1243.9	1212.1	1181.5	1147.2	1142.4	1142.4	1204.7	1374.7
20°	1369.8	1373.5	1362.5	1334.4	1302.6	1254.9	1220.6	1198.6	1201.1	1252.4	1449.3
22.5°	1516.6	1522.7	1493.4	1453.0	1404.1	1349.1	1300.1	1264.7	1265.9	1314.8	1526.4
25°	1674.4	1676.8	1658.5	1604.7	1538.6	1460.4	1395.5	1350.3	1349.1	1384.5	1625.5
27.5°	1835.8	1846.8	1810.2	1758.8	1697.6	1599.8	1514.2	1453.0	1443.2	1490.9	1749.0
30°	2002.2	2015.6	1980.2	1930.0	1854.2	1771.0	1669.5	1598.6	1592.4	1656.0	1914.1
32.5°	2169.7	2173.4	2145.3	2103.7	2035.2	1956.9	1875.0	1796.7	1790.6	1894.5	2128.2
35°	2306.7	2317.7	2298.2	2288.4	2238.2	2166.1	2086.6	2041.3	2057.2	2190.5	2405.8
37.5°	2471.8	2482.8	2460.8	2458.4	2442.5	2380.1	2325.1	2328.7	2344.6	2525.7	2698.1
40°	2710.3	2722.6	2666.3	2641.8	2641.8	2580.7	2562.3	2649.2	2670.0	2855.9	3002.6
42.5°	2912.1	2931.7	2898.7	2882.8	2835.1	2792.3	2814.3	2936.6	2972.1	3171.4	3268.1
45°	3010.0	3024.7	3063.8	3110.3	3063.8	2989.2	3072.4	3210.6	3260.7	3462.5	3533.5
47.5°	3062.6	3076.0	3121.3	3246.0	3277.8	3215.5	3332.9	3505.3	3539.6	3751.2	3786.6
50°	3069.9	3112.7	3171.4	3296.2	3441.7	3450.3	3594.6	3805.0	3845.3	4034.9	4009.2
52.5°	3010.0	3027.1	3148.2	3358.6	3520.0	3666.8	3879.6	4092.4	4121.8	4301.6	4206.2
55°	2912.1	2936.6	3057.7	3343.9	3595.8	3872.3	4169.5	4374.9	4408.0	4560.8	4388.4
57.5°	2824.1	2836.3	2966.0	3301.1	3671.7	4077.7	4427.5	4669.7	4691.7	4788.3	4522.9
60°	2726.2	2739.7	2869.3	3209.3	3727.9	4233.1	4696.6	4966.9	4986.5	5028.1	4679.5
62.5°	2473.1	2508.5	2671.2	3057.7	3713.3	4410.4	4984.0	5260.4	5284.9	5239.7	4803.0
65°	2008.3	2058.4	2257.8	2714.0	3576.3	4525.4	5218.9	5530.7	5572.3	5398.7	4836.0
67.5°	1559.4	1594.9	1755.1	2153.8	3095.6	4467.9	5370.5	5716.7	5728.9	5373.0	4652.6
68°	1478.7	1514.2	1667.1	2036.4	2962.3	4399.4	5366.9	5721.5	5748.5	5344.8	4581.6
70°	1131.3	1171.7	1317.3	1613.2	2387.4	3964.0	5143.0	5604.1	5600.5	5004.8	4141.3
72.5°	706.9	730.2	830.5	1017.6	1579.0	3016.1	4365.2	4942.4	4952.2	4080.2	3176.3
75°	448.9	448.9	444.0	492.9	809.7	1718.4	3244.8	3805.0	3812.3	2857.1	2002.2
77.5°	390.2	379.2	326.6	276.4	322.9	667.8	1920.2	2457.2	2416.8	1538.6	950.3
80°	329.0	310.7	267.9	222.6	207.9	209.1	737.5	1247.5	1193.7	554.1	315.6
82.5°	237.3	221.4	201.8	174.9	160.2	124.8	154.1	360.8	352.2	160.2	102.7
85°	128.4	116.2	113.7	115.0	96.6	77.1	64.8	79.5	79.5	69.7	58.7
87.5°	45.3	33.0	39.1	44.0	37.9	31.8	25.7	30.6	31.8	30.6	28.1
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: P1211595

CATALOG NUMBER: ARCH4-50-750-U-T3RE

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1212.1	1212.1	1212.1	1212.1	1212.1	1212.1	1212.1	1212.1	1212.1	1212.1	1212.1
2.5°	1217.0	1229.2	1258.5	1284.2	1302.6	1318.5	1327.0	1330.7	1339.3	1340.5	1338.0
5°	1226.7	1258.5	1302.6	1340.5	1361.3	1369.8	1372.3	1373.5	1369.8	1372.3	1369.8
7.5°	1252.4	1292.8	1355.2	1388.2	1391.9	1378.4	1379.6	1374.7	1379.6	1384.5	1384.5
10°	1291.6	1342.9	1401.6	1413.9	1398.0	1390.6	1405.3	1434.7	1444.5	1457.9	1457.9
12.5°	1342.9	1404.1	1445.7	1434.7	1420.0	1444.5	1487.3	1516.6	1526.4	1531.3	1527.6
15°	1401.6	1467.7	1488.5	1451.8	1478.7	1531.3	1546.0	1528.8	1504.4	1493.4	1499.5
17.5°	1476.3	1531.3	1519.1	1494.6	1555.8	1563.1	1515.4	1460.4	1421.2	1406.5	1416.3
20°	1554.5	1602.2	1546.0	1557.0	1594.9	1516.6	1426.1	1355.2	1320.9	1314.8	1324.6
22.5°	1637.7	1668.3	1572.9	1629.1	1572.9	1413.9	1305.0	1268.3	1259.8	1269.6	1278.1
25°	1731.9	1728.2	1619.4	1651.2	1490.9	1287.9	1223.1	1220.6	1220.6	1226.7	1239.0
27.5°	1838.3	1780.8	1665.8	1621.8	1349.1	1183.9	1171.7	1172.9	1169.3	1170.5	1176.6
30°	1961.8	1851.7	1717.2	1525.2	1190.1	1105.7	1100.8	1097.1	1088.5	1086.1	1088.5
32.5°	2117.1	1926.3	1769.8	1366.2	1050.6	1024.9	1022.5	1002.9	982.1	979.7	988.2
35°	2314.1	2062.1	1796.7	1166.8	935.7	934.4	925.9	895.3	868.4	868.4	862.3
37.5°	2539.1	2237.0	1807.7	972.3	840.3	846.4	821.9	782.8	762.0	749.7	753.4
40°	2769.0	2436.4	1806.5	802.3	757.1	758.3	740.0	692.3	640.9	610.3	617.7
42.5°	2990.4	2617.4	1774.7	711.8	689.8	686.1	671.5	606.6	563.8	539.4	540.6
45°	3167.8	2804.5	1725.8	658.0	628.7	634.8	601.8	562.6	523.5	501.5	500.2
47.5°	3345.1	2946.4	1647.5	625.0	583.4	572.4	558.9	532.0	502.7	478.2	479.4
50°	3506.6	3067.5	1574.1	603.0	541.8	513.7	516.1	500.2	474.6	452.5	451.3
52.5°	3620.3	3147.0	1533.7	590.7	491.7	461.1	469.7	461.1	436.6	420.7	419.5
55°	3734.0	3208.1	1547.2	574.8	436.6	412.2	426.9	424.4	411.0	406.1	407.3
57.5°	3825.8	3254.6	1594.9	545.5	384.0	369.4	393.8	386.5	376.7	377.9	377.9
60°	3915.1	3314.5	1651.2	478.2	338.8	340.0	363.3	349.8	343.7	354.7	355.9
62.5°	4008.0	3379.4	1604.7	380.4	299.7	308.2	335.1	324.1	326.6	342.5	347.4
65°	3997.0	3373.2	1307.5	311.9	265.4	282.5	322.9	319.2	320.4	326.6	329.0
67.5°	3772.0	3158.0	899.0	265.4	240.9	261.7	313.1	298.4	299.7	296.0	297.2
68°	3696.1	3082.1	792.6	258.1	236.1	256.8	308.2	294.8	296.0	292.3	291.1
70°	3282.7	2639.4	501.5	227.5	218.9	243.4	283.8	278.9	277.6	275.2	275.2
72.5°	2502.4	1948.4	264.2	196.9	199.4	222.6	253.2	263.0	256.8	258.1	265.4
75°	1657.3	1171.7	183.5	168.8	174.9	190.8	225.0	244.6	238.5	242.2	238.5
77.5°	876.9	631.1	146.8	143.1	143.1	154.1	185.9	216.5	216.5	214.0	210.4
80°	287.4	222.6	117.4	112.5	115.0	121.1	149.2	177.3	181.0	176.1	173.7
82.5°	96.6	102.7	88.1	81.9	84.4	89.3	112.5	135.8	137.0	127.2	124.8
85°	59.9	68.5	55.0	53.8	53.8	55.0	68.5	74.6	68.5	61.2	63.6
87.5°	28.1	34.2	25.7	22.0	18.3	15.9	12.2	4.9	4.9	2.4	2.4
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)