

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: P836604

Luminaire Tested: **ARCH3-50-727-U-T2R**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836604
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-50-727-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 425mA LIGHTSQUARE WITH 40 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

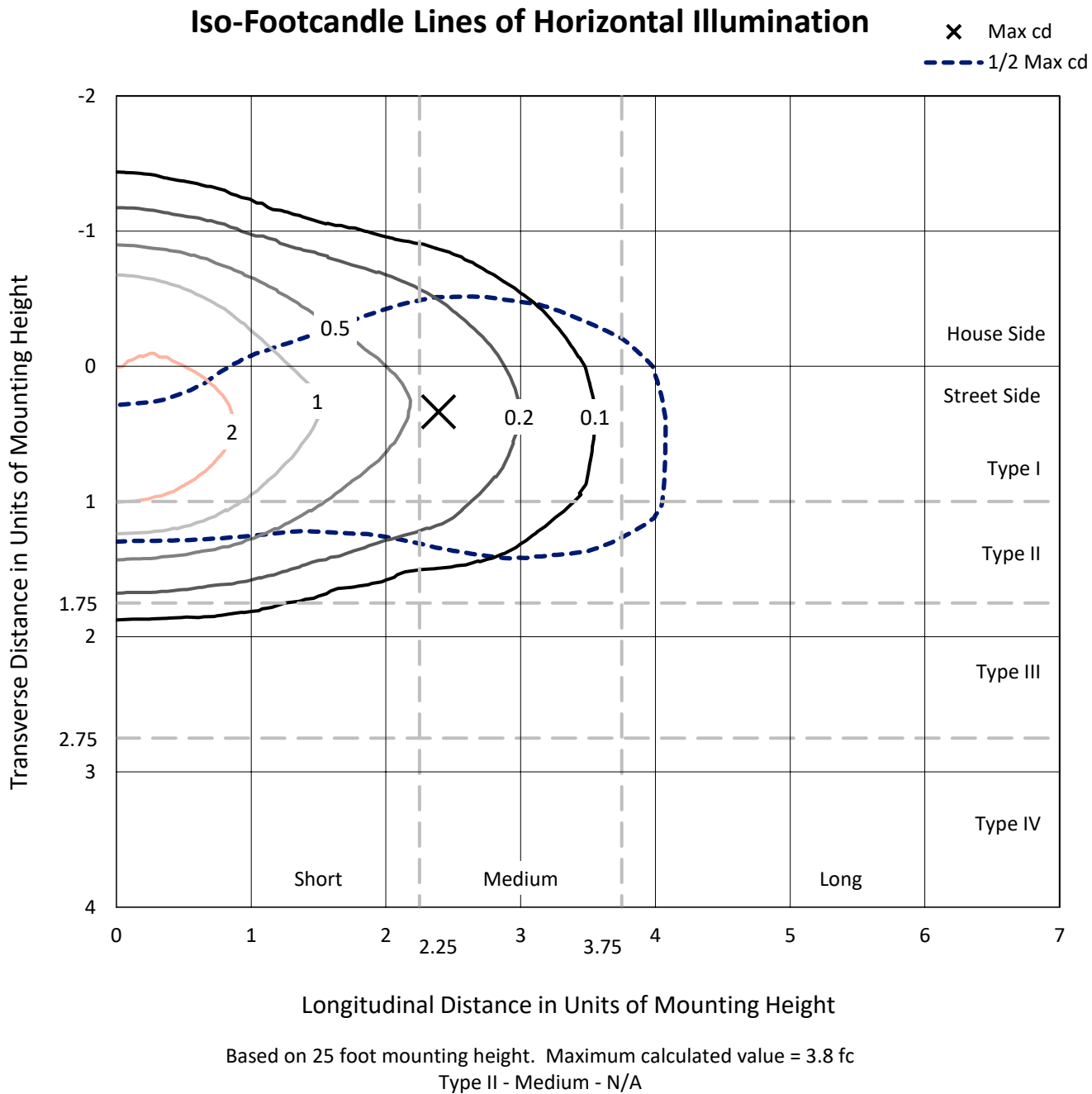
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8617 lumens
Efficiency: N/A
Efficacy: 160.8 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 53.6
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

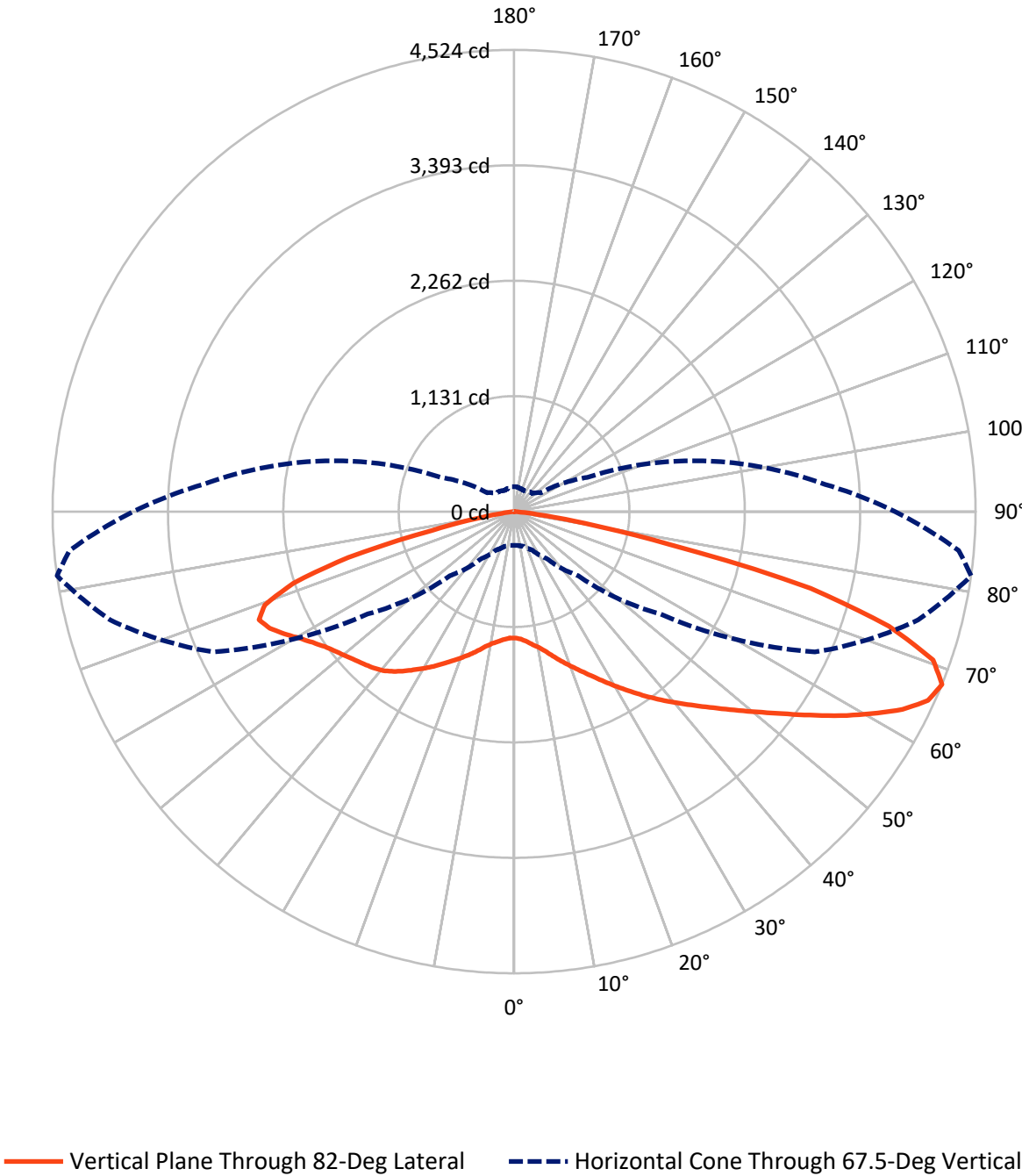


REPORT NUMBER: P836604
CATALOG NUMBER: ARCH3-50-727-U-T2R



REPORT NUMBER: P836604
CATALOG NUMBER: ARCH3-50-727-U-T2R

Luminous Intensity Polar Plot



REPORT NUMBER: P836604

CATALOG NUMBER: ARCH3-50-727-U-T2R

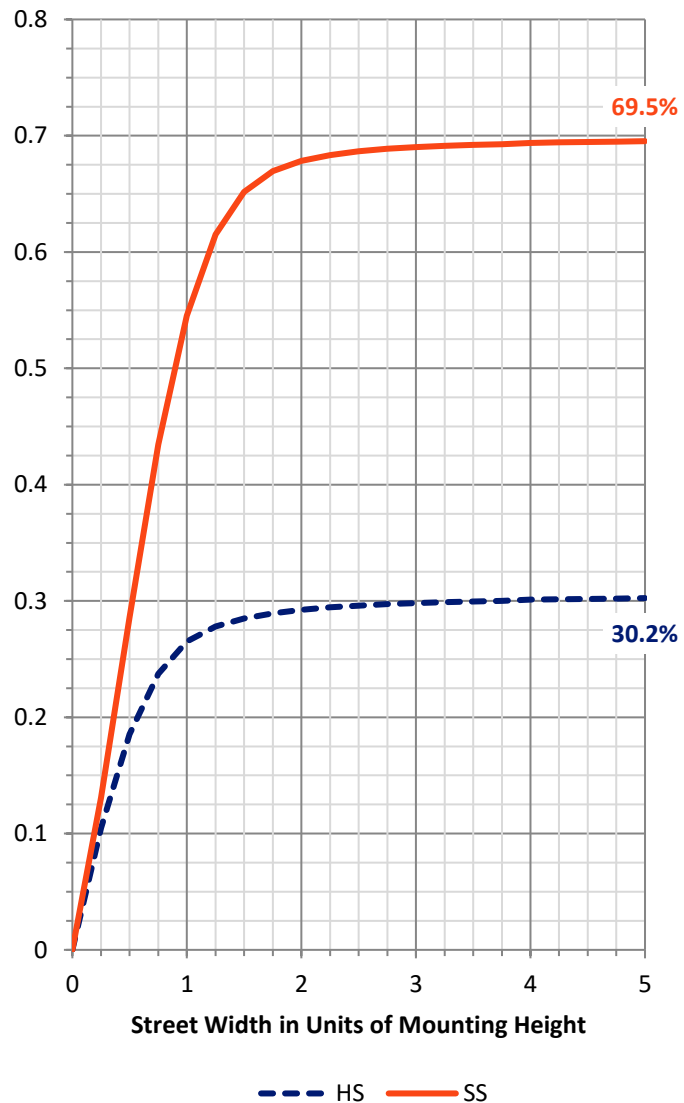
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2624.2	0.0	2624.2
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	5992.8	0.0	5992.8
	% Fixture	69.5	0.0	69.5
Total	Lumens	8617.0	0.0	8617.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.0	1.5
10°-20°	461.1	5.4
20°-30°	926.7	10.8
30°-40°	1455.7	16.9
40°-50°	1773.4	20.6
50°-60°	1675.6	19.4
60°-70°	1383.7	16.1
70°-80°	753.5	8.7
80°-90°	59.2	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°	8617.0	100.0
0°-180°	8617.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836604

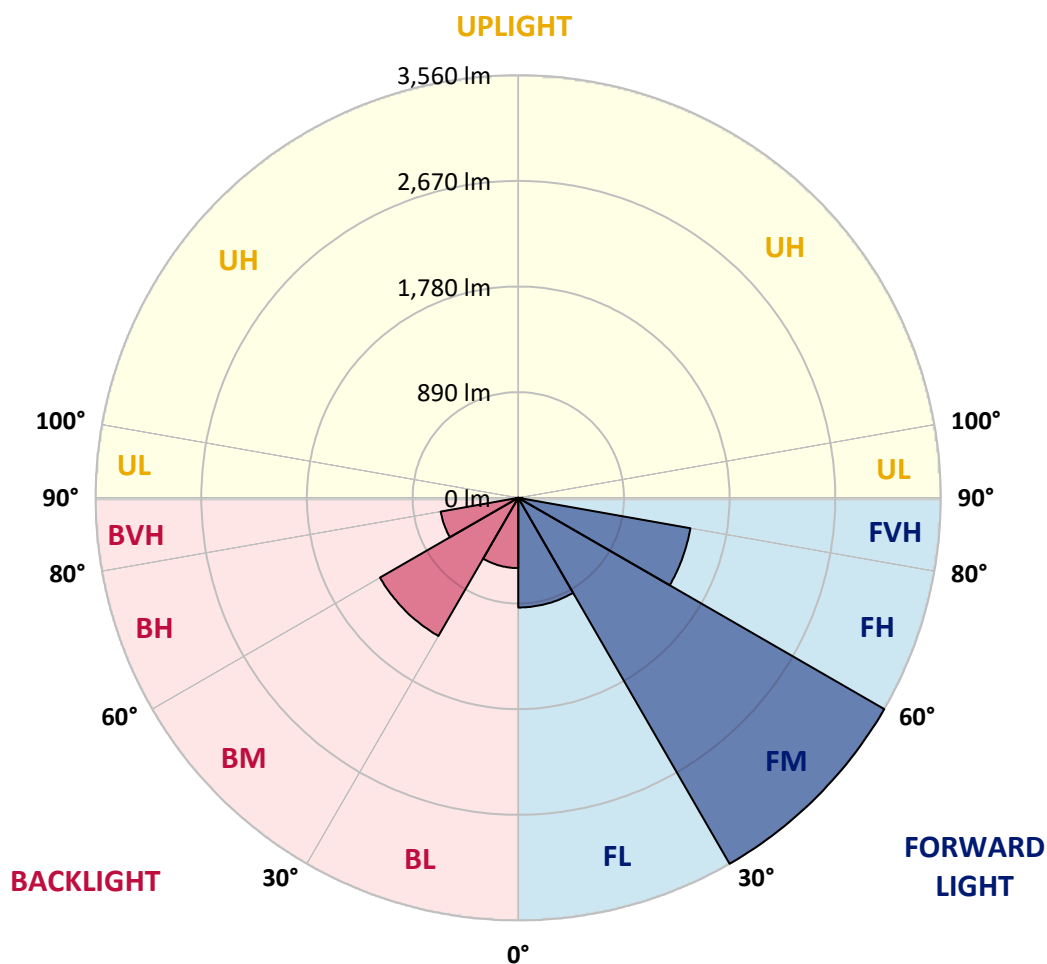
CATALOG NUMBER: ARCH3-50-727-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	924.1	10.7			
FM	(30°-60°)	3560.0	41.3			
FH	(60°-80°)	1473.0	17.1			G1/1800
FVH	(80°-90°)	35.7	0.4			G1/100
BL	(0°-30°)	591.8	6.9	B2/1000		
BM	(30°-60°)	1344.7	15.6	B2/2500		
BH	(60°-80°)	664.2	7.7	B2/1000		G2/1000
BVH	(80°-90°)	23.5	0.3			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 II Medium



REPORT NUMBER: P836604

CATALOG NUMBER: ARCH3-50-727-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7
2.5°	1295.0	1295.0	1305.0	1305.0	1296.2	1282.5	1278.7	1263.7	1250.0	1250.0	1251.2
5°	1418.9	1417.6	1425.1	1415.1	1393.8	1366.3	1347.5	1315.0	1287.5	1278.7	1277.5
7.5°	1570.3	1569.0	1572.8	1556.5	1516.5	1471.4	1433.9	1381.3	1336.3	1317.5	1312.5
10°	1739.2	1737.9	1734.2	1706.6	1652.8	1582.8	1526.5	1453.9	1386.3	1356.3	1350.0
12.5°	1933.1	1930.6	1921.8	1881.8	1808.0	1717.9	1636.6	1542.7	1452.6	1411.4	1397.6
15°	2149.6	2145.8	2129.5	2080.7	1981.9	1868.0	1762.9	1642.8	1532.7	1478.9	1460.2
17.5°	2377.3	2377.3	2352.3	2279.7	2169.6	2028.2	1898.1	1745.4	1616.6	1550.2	1527.7
20°	2608.8	2607.5	2576.2	2488.6	2358.5	2195.9	2030.7	1863.0	1702.9	1622.8	1595.3
22.5°	2852.7	2850.2	2811.4	2711.4	2556.2	2372.3	2179.6	1979.4	1798.0	1701.6	1666.6
25°	3133.0	3129.3	3081.7	2959.1	2775.2	2567.5	2347.3	2115.8	1906.8	1789.2	1747.9
27.5°	3430.8	3425.8	3369.5	3226.8	3025.4	2775.2	2532.4	2273.4	2026.9	1886.8	1840.5
30°	3696.0	3692.3	3631.0	3484.6	3253.1	2981.6	2708.9	2431.1	2153.3	1990.7	1933.1
32.5°	3896.2	3896.2	3841.2	3697.3	3457.1	3179.3	2886.5	2580.0	2284.7	2102.0	2034.5
35°	4017.6	4021.4	3973.8	3858.7	3632.2	3365.7	3070.4	2755.1	2424.8	2220.9	2148.3
37.5°	4035.1	4047.6	4020.1	3942.5	3753.6	3520.9	3250.6	2924.1	2570.0	2341.0	2259.7
40°	3953.8	3962.6	3963.8	3933.8	3803.7	3632.2	3409.5	3103.0	2723.9	2467.4	2373.5
42.5°	3791.1	3797.4	3808.7	3817.4	3767.4	3681.0	3530.9	3269.4	2887.8	2596.2	2486.1
45°	3580.9	3579.7	3598.5	3636.0	3633.5	3653.5	3598.5	3420.8	3057.9	2742.6	2611.3
47.5°	3266.9	3260.6	3326.9	3412.0	3454.6	3548.4	3599.7	3539.6	3243.1	2904.0	2753.9
50°	2775.2	2768.9	2914.0	3114.2	3239.4	3382.0	3530.9	3611.0	3437.0	3085.5	2909.0
52.5°	2177.1	2170.8	2354.8	2705.1	2977.9	3185.6	3392.0	3627.2	3621.0	3288.2	3084.2
55°	1619.1	1614.0	1793.0	2172.1	2613.8	2957.8	3221.8	3584.7	3793.6	3520.9	3296.9
57.5°	1141.1	1138.6	1293.7	1607.8	2145.8	2680.1	3057.9	3502.1	3952.5	3773.6	3537.1
60°	800.8	797.0	909.6	1152.4	1622.8	2260.9	2895.3	3392.0	4071.4	4022.6	3792.4
62.5°	539.3	536.8	616.8	819.5	1152.4	1740.4	2648.8	3318.2	4139.0	4272.9	4050.1
65°	409.1	407.9	444.2	555.5	815.8	1250.0	2257.2	3309.4	4147.7	4460.5	4269.1
67.5°	330.3	331.6	351.6	415.4	564.3	888.4	1750.4	3254.4	4101.4	4524.3	4375.5
70°	270.3	270.3	279.0	321.6	416.7	599.3	1222.4	3004.1	3972.6	4357.9	4249.1
72.5°	206.4	207.7	235.2	260.2	314.1	420.4	783.3	2486.1	3668.5	3842.4	3759.9
75°	163.9	162.7	178.9	214.0	244.0	300.3	480.5	1783.0	3121.7	3002.9	2950.3
77.5°	117.6	116.4	128.9	158.9	185.2	212.7	286.5	899.6	1697.9	1560.2	1521.5
80°	80.1	77.6	88.8	110.1	122.6	125.1	140.1	345.3	740.7	698.2	689.4
82.5°	41.3	41.3	47.5	62.6	63.8	65.1	62.6	111.4	245.2	229.0	219.0
85°	16.3	16.3	17.5	21.3	21.3	22.5	22.5	28.8	26.3	25.0	23.8
87.5°	1.3	1.3	2.5	2.5	3.8	3.8	3.8	5.0	6.3	6.3	6.3
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: P836604

CATALOG NUMBER: ARCH3-50-727-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7	1238.7
2.5°	1248.7	1243.7	1227.4	1223.7	1221.2	1217.4	1218.7	1209.9	1206.2	1207.4	1202.4
5°	1271.2	1262.5	1242.4	1233.7	1231.2	1227.4	1231.2	1224.9	1218.7	1221.2	1218.7
7.5°	1302.5	1290.0	1265.0	1256.2	1255.0	1251.2	1256.2	1251.2	1246.2	1248.7	1243.7
10°	1335.0	1318.8	1291.2	1282.5	1282.5	1281.2	1286.2	1278.7	1273.7	1275.0	1272.5
12.5°	1382.6	1361.3	1331.3	1323.8	1320.0	1323.8	1325.0	1315.0	1306.3	1307.5	1303.8
15°	1440.1	1416.4	1383.8	1372.6	1370.1	1368.8	1363.8	1351.3	1340.0	1338.8	1335.0
17.5°	1502.7	1472.7	1433.9	1422.6	1411.4	1407.6	1395.1	1378.8	1361.3	1361.3	1356.3
20°	1562.8	1529.0	1482.7	1466.4	1450.1	1435.1	1413.9	1387.6	1365.1	1361.3	1356.3
22.5°	1627.8	1587.8	1534.0	1510.2	1481.4	1451.4	1415.1	1380.1	1351.3	1345.0	1341.3
25°	1700.4	1650.3	1586.5	1551.5	1505.2	1458.9	1405.1	1360.1	1326.3	1316.3	1313.8
27.5°	1780.5	1720.4	1642.8	1591.5	1524.0	1451.4	1382.6	1328.8	1287.5	1275.0	1271.2
30°	1861.8	1790.5	1694.1	1619.1	1524.0	1427.6	1341.3	1278.7	1231.2	1213.7	1211.2
32.5°	1943.1	1863.0	1740.4	1634.1	1508.9	1387.6	1287.5	1213.7	1159.9	1138.6	1143.6
35°	2040.7	1943.1	1783.0	1640.3	1483.9	1338.8	1226.2	1139.8	1084.8	1066.0	1069.8
37.5°	2142.1	2023.2	1816.7	1635.3	1448.9	1283.7	1157.4	1073.5	1004.7	972.2	975.9
40°	2229.6	2095.8	1840.5	1617.8	1403.8	1221.2	1089.8	979.7	884.6	853.3	849.6
42.5°	2312.2	2149.6	1853.0	1591.5	1352.5	1148.6	993.5	852.1	757.0	718.2	719.4
45°	2398.6	2202.1	1848.0	1556.5	1288.7	1063.5	869.6	726.9	643.1	608.1	609.3
47.5°	2497.4	2258.4	1843.0	1519.0	1211.2	953.4	750.7	616.8	544.3	519.2	516.7
50°	2602.5	2321.0	1836.8	1472.7	1124.8	830.8	633.1	514.2	452.9	436.7	432.9
52.5°	2721.4	2388.5	1833.0	1417.6	1021.0	700.7	528.0	424.2	382.9	371.6	370.4
55°	2864.0	2467.4	1838.0	1351.3	895.9	578.1	439.2	365.4	337.8	331.6	330.3
57.5°	3037.9	2568.7	1853.0	1273.7	764.5	471.7	374.1	329.1	311.5	306.5	306.5
60°	3226.8	2683.8	1880.6	1186.1	633.1	389.1	331.6	300.3	292.8	299.0	299.0
62.5°	3430.8	2819.0	1929.4	1079.8	510.5	329.1	297.8	276.5	271.5	284.0	285.3
65°	3619.7	2950.3	1960.6	952.2	405.4	285.3	271.5	252.7	255.2	267.8	266.5
67.5°	3736.1	3059.2	1916.8	792.0	321.6	252.7	244.0	227.7	234.0	244.0	245.2
70°	3664.8	2997.9	1700.4	598.1	251.5	220.2	214.0	203.9	209.0	221.5	226.5
72.5°	3315.7	2685.1	1322.5	404.1	202.7	185.2	187.7	182.7	188.9	200.2	211.5
75°	2691.3	2029.4	887.1	259.0	160.2	157.7	161.4	157.7	160.2	171.4	177.7
77.5°	1405.1	989.7	441.7	161.4	118.9	122.6	128.9	130.1	137.6	140.1	142.6
80°	655.6	445.4	183.9	90.1	78.8	86.3	98.8	100.1	102.6	106.4	107.6
82.5°	214.0	133.9	85.1	48.8	45.0	48.8	63.8	76.3	77.6	85.1	85.1
85°	22.5	13.8	18.8	20.0	17.5	21.3	28.8	27.5	12.5	7.5	7.5
87.5°	6.3	5.0	6.3	6.3	5.0	5.0	3.8	1.3	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)