

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: P836682

Luminaire Tested: **ARCH3-60-727-U-T4W**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-60-727-U-T4W
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2700K, 505mA LIGHTSQUARE WITH 40 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

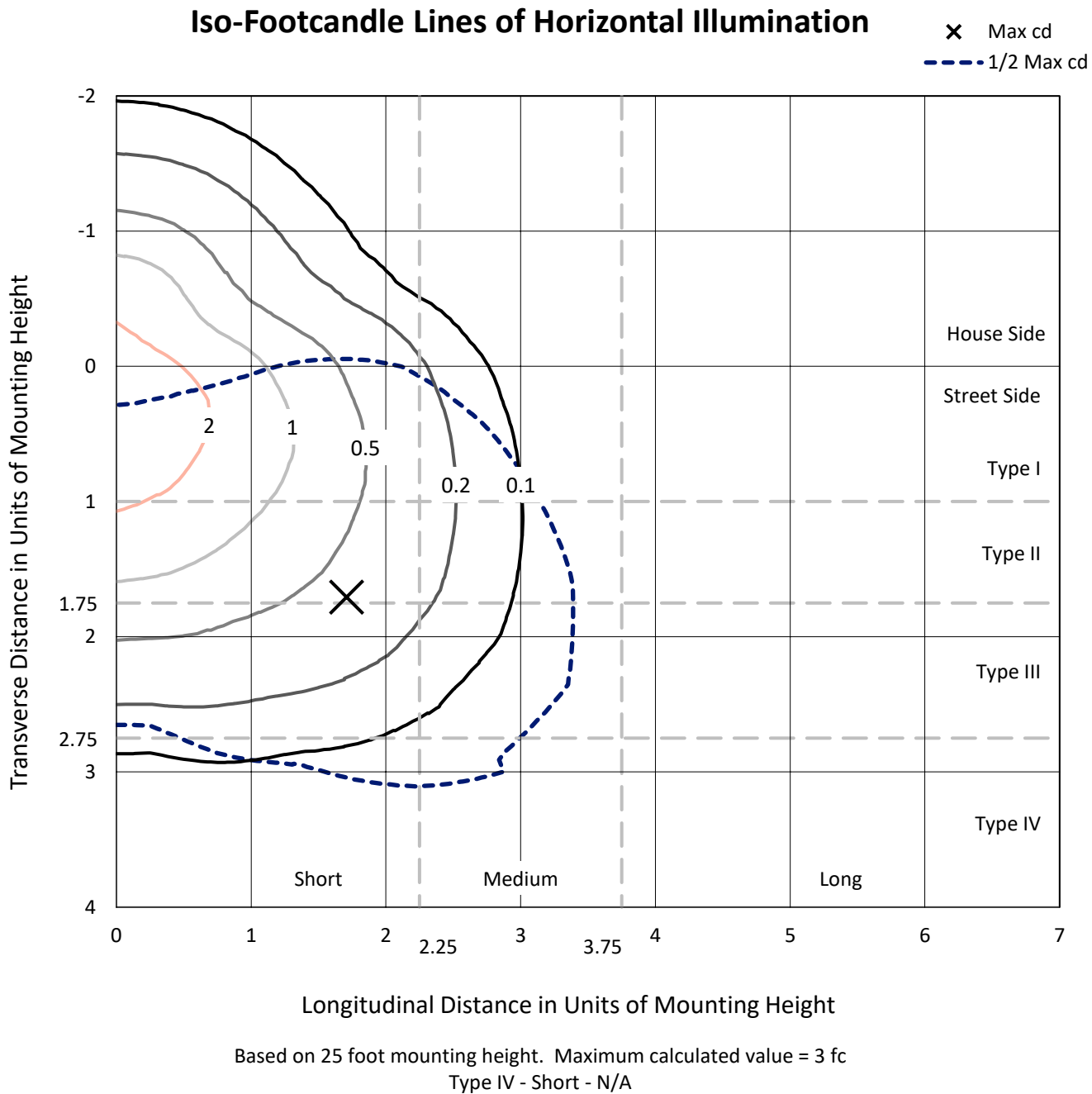
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9798 lumens
Efficiency: N/A
Efficacy: 155.0 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

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

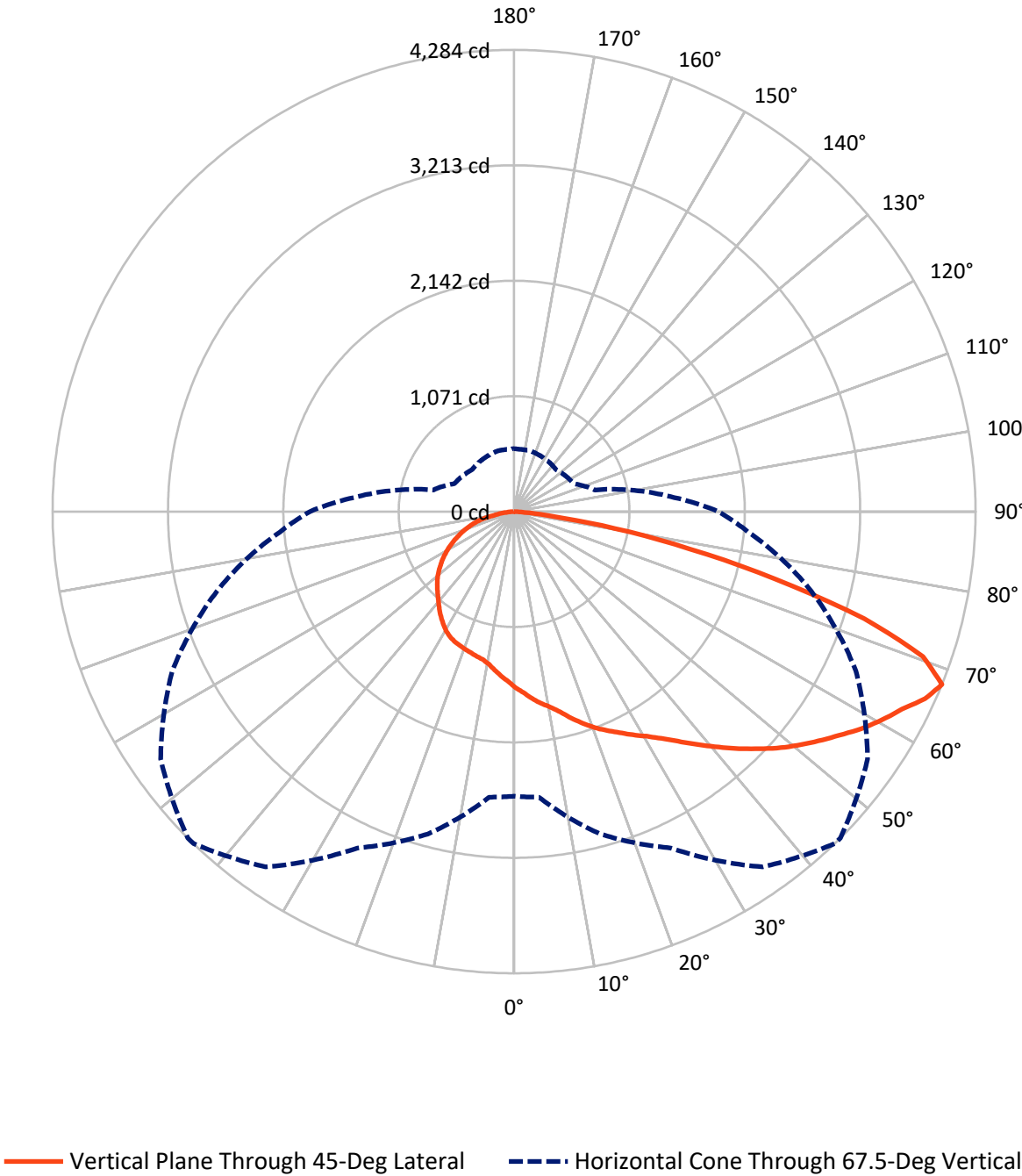


REPORT NUMBER: P836682
CATALOG NUMBER: ARCH3-60-727-U-T4W



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Luminous Intensity Polar Plot



REPORT NUMBER: P836682

CATALOG NUMBER: ARCH3-60-727-U-T4W

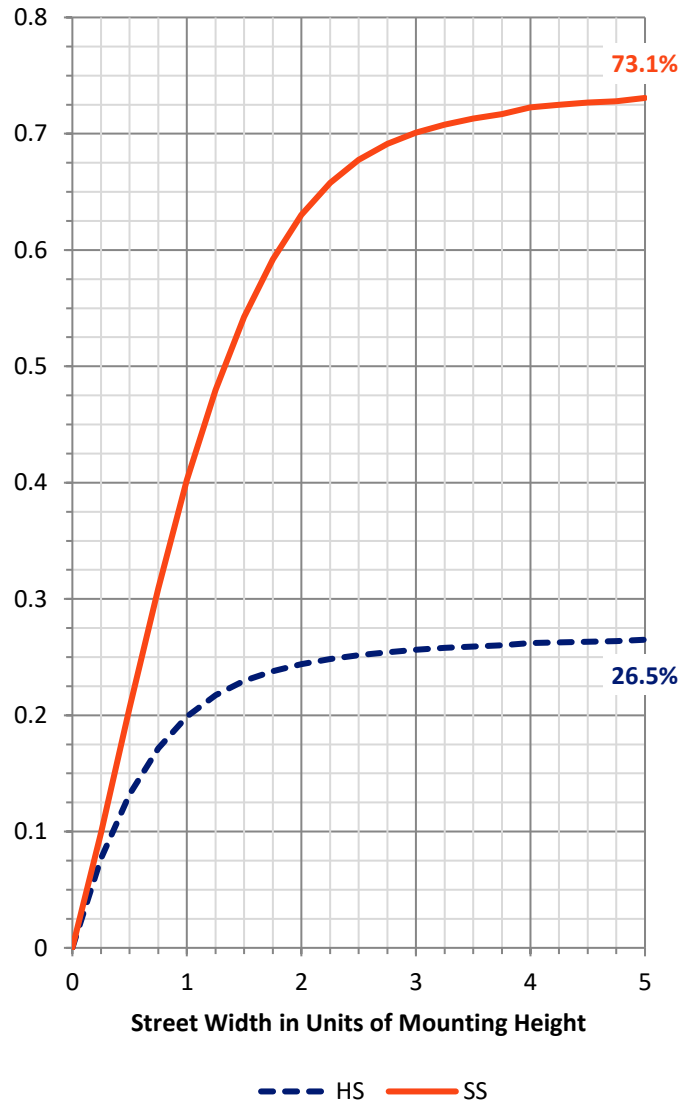
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2617.5	0.0	2617.5
	% Fixture	26.7	0.0	26.7
Street Side	Lumens	7180.5	0.0	7180.5
	% Fixture	73.3	0.0	73.3
Total	Lumens	9798.0	0.0	9798.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.5	1.6
10°-20°	483.3	4.9
20°-30°	834.3	8.5
30°-40°	1230.3	12.6
40°-50°	1666.8	17.0
50°-60°	2037.2	20.8
60°-70°	2101.0	21.4
70°-80°	1150.8	11.7
80°-90°	137.9	1.4
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°	9798.0	100.0
0°-180°	9798.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836682

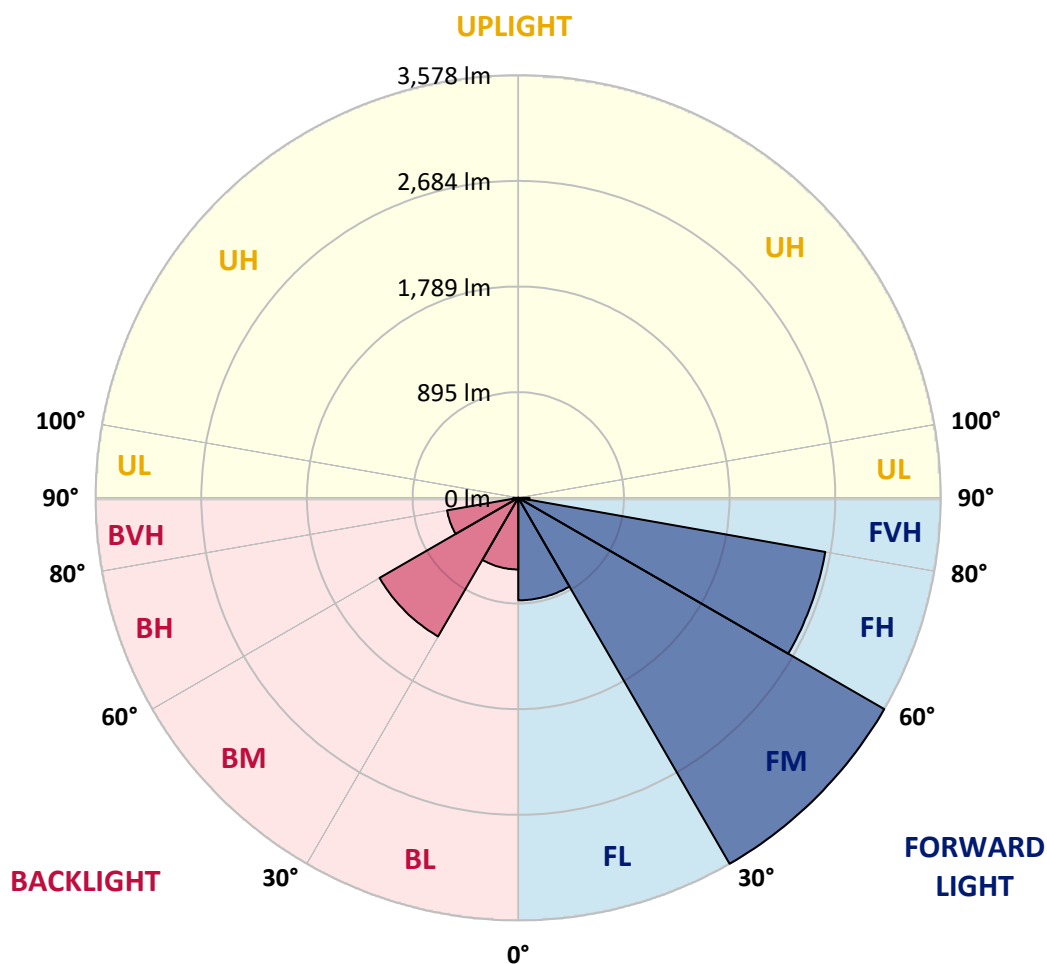
CATALOG NUMBER: ARCH3-60-727-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	867.4	8.9			
FM	(30°-60°)	3578.3	36.5			
FH	(60°-80°)	2639.7	26.9			G2/5000
FVH	(80°-90°)	95.0	1.0			G1/100
BL	(0°-30°)	606.7	6.2	B2/1000		
BM	(30°-60°)	1355.8	13.8	B2/2500		
BH	(60°-80°)	612.1	6.2	B2/1000		G2/1000
BVH	(80°-90°)	42.9	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 IV Short



REPORT NUMBER: P836682

CATALOG NUMBER: ARCH3-60-727-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1
2.5°	1705.7	1704.2	1707.2	1696.7	1683.3	1681.8	1681.8	1672.9	1662.4	1641.6	1625.2
5°	1786.2	1783.2	1784.7	1769.8	1751.9	1743.0	1741.5	1722.1	1698.2	1665.4	1635.6
7.5°	1860.8	1857.8	1856.3	1839.9	1813.0	1798.1	1796.6	1768.3	1740.0	1689.3	1646.0
10°	1930.8	1927.8	1924.9	1902.5	1869.7	1847.3	1844.3	1808.6	1772.8	1710.2	1655.0
12.5°	2020.3	2014.3	2011.3	1984.5	1936.8	1912.9	1908.5	1860.8	1816.0	1740.0	1672.9
15°	2114.2	2109.7	2105.3	2079.9	2026.2	1994.9	1987.5	1927.8	1866.7	1778.7	1699.7
17.5°	2184.3	2179.8	2179.8	2157.5	2108.3	2072.5	2066.5	1994.9	1918.9	1814.5	1720.6
20°	2227.5	2223.1	2227.5	2214.1	2176.8	2147.0	2141.1	2062.0	1971.1	1847.3	1738.5
22.5°	2258.8	2254.4	2261.8	2255.9	2229.0	2211.1	2206.7	2129.1	2024.8	1881.6	1756.4
25°	2314.0	2314.0	2314.0	2303.6	2278.2	2272.3	2272.3	2205.2	2093.3	1926.4	1783.2
27.5°	2424.3	2418.4	2410.9	2381.1	2337.9	2336.4	2345.3	2282.7	2172.4	1984.5	1816.0
30°	2586.9	2583.9	2555.5	2492.9	2419.9	2412.4	2418.4	2366.2	2257.4	2045.6	1853.3
32.5°	2797.1	2786.7	2728.5	2634.6	2530.2	2495.9	2507.8	2452.7	2346.8	2108.3	1889.1
35°	2946.2	2949.2	2907.4	2822.4	2698.7	2607.7	2616.7	2549.6	2443.7	2178.3	1933.8
37.5°	3117.7	3128.1	3065.5	3001.4	2886.5	2731.5	2740.4	2649.5	2540.6	2266.3	1981.5
40°	3354.7	3333.8	3228.0	3151.9	3025.2	2861.2	2868.7	2761.3	2652.5	2349.8	2036.7
42.5°	3553.0	3515.7	3387.5	3290.6	3138.5	2998.4	3005.8	2882.1	2765.8	2442.2	2097.8
45°	3837.8	3734.9	3550.0	3502.3	3254.8	3132.6	3140.0	3010.3	2885.1	2540.6	2163.4
47.5°	4003.3	3839.3	3721.5	3696.2	3383.0	3271.2	3280.2	3146.0	3013.3	2652.5	2232.0
50°	3992.9	3887.0	3852.7	3790.1	3496.4	3400.9	3409.9	3286.1	3143.0	2762.8	2297.6
52.5°	3924.3	3943.7	3925.8	3821.4	3609.7	3526.2	3536.6	3424.8	3275.7	2865.7	2358.7
55°	4030.1	4043.6	4009.3	3872.1	3734.9	3651.4	3663.4	3570.9	3406.9	2956.6	2410.9
57.5°	4156.9	4109.2	4074.9	3961.5	3864.6	3787.1	3800.5	3720.0	3520.2	3029.7	2451.2
60°	4150.9	4051.0	4085.3	3967.5	3952.6	3912.3	3924.3	3842.3	3606.7	3083.4	2467.6
62.5°	3845.3	3791.6	3964.5	3924.3	4024.2	4024.2	4039.1	3916.8	3658.9	3105.7	2458.6
65°	3314.5	3317.4	3621.6	3788.6	4109.2	4177.7	4189.7	3963.0	3629.1	3040.1	2375.1
67.5°	2640.5	2659.9	3096.8	3444.2	4024.2	4282.1	4283.6	4004.8	3500.8	2855.2	2181.3
70°	1932.3	1947.2	2463.1	2885.1	3623.1	4051.0	4027.2	3887.0	3222.0	2533.2	1878.6
72.5°	1306.1	1319.5	1850.3	2215.6	2973.0	3450.1	3398.0	3435.2	2746.4	2081.4	1510.4
75°	878.2	894.6	1316.5	1584.9	2187.3	2619.7	2503.4	2601.8	2124.7	1576.0	1101.8
77.5°	553.2	563.6	836.4	1039.2	1494.0	1783.2	1666.9	1668.4	1224.1	848.4	591.9
80°	351.9	354.9	506.9	599.4	864.8	1072.0	948.3	770.8	551.7	450.3	353.4
82.5°	204.3	199.8	302.7	338.5	411.5	407.0	337.0	319.1	241.5	225.1	180.4
85°	82.0	76.0	132.7	123.8	125.2	132.7	98.4	98.4	79.0	61.1	44.7
87.5°	16.4	16.4	17.9	16.4	16.4	17.9	13.4	13.4	11.9	11.9	11.9
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: P836682

CATALOG NUMBER: ARCH3-60-727-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1	1634.1
2.5°	1622.2	1619.2	1611.8	1592.4	1581.9	1576.0	1567.0	1564.0	1562.6	1564.0	1568.5
5°	1626.7	1616.2	1595.4	1564.0	1543.2	1529.8	1514.8	1508.9	1504.4	1504.4	1508.9
7.5°	1629.6	1613.2	1577.5	1531.2	1501.4	1480.5	1462.7	1455.2	1453.7	1458.2	1459.7
10°	1631.1	1607.3	1556.6	1498.4	1459.7	1432.8	1414.9	1410.5	1414.9	1423.9	1425.4
12.5°	1641.6	1608.8	1544.7	1476.1	1429.9	1403.0	1389.6	1389.6	1401.5	1417.9	1419.4
15°	1659.5	1619.2	1538.7	1458.2	1410.5	1386.6	1382.1	1389.6	1407.5	1432.8	1435.8
17.5°	1672.9	1625.2	1525.3	1434.3	1385.1	1370.2	1377.7	1395.6	1420.9	1455.2	1458.2
20°	1681.8	1625.2	1505.9	1406.0	1359.8	1356.8	1377.7	1406.0	1432.8	1473.1	1477.6
22.5°	1690.8	1622.2	1483.5	1371.7	1331.5	1340.4	1379.2	1414.9	1441.8	1485.0	1492.5
25°	1707.2	1626.7	1461.2	1337.4	1301.6	1327.0	1377.7	1420.9	1449.2	1494.0	1505.9
27.5°	1729.5	1637.1	1444.8	1306.1	1271.8	1306.1	1367.2	1419.4	1449.2	1492.5	1505.9
30°	1753.4	1649.0	1425.4	1271.8	1237.5	1276.3	1344.9	1403.0	1437.3	1477.6	1494.0
32.5°	1778.7	1662.4	1409.0	1234.5	1195.8	1236.0	1312.1	1377.7	1414.9	1452.2	1470.1
35°	1813.0	1686.3	1400.0	1204.7	1158.5	1194.3	1270.3	1344.9	1385.1	1419.4	1440.3
37.5°	1854.8	1716.1	1395.6	1174.9	1118.2	1148.1	1225.6	1304.6	1347.9	1376.2	1395.6
40°	1902.5	1753.4	1394.1	1146.6	1078.0	1100.3	1179.4	1258.4	1300.1	1322.5	1338.9
42.5°	1956.2	1795.1	1391.1	1118.2	1037.7	1055.6	1134.6	1212.2	1248.0	1267.3	1282.2
45°	2012.8	1836.9	1385.1	1083.9	994.5	1015.4	1088.4	1157.0	1194.3	1210.7	1227.1
47.5°	2069.5	1878.6	1373.2	1045.2	955.7	975.1	1039.2	1098.9	1128.7	1143.6	1160.0
50°	2124.7	1915.9	1344.9	1000.5	915.5	933.4	982.6	1022.8	1045.2	1057.1	1073.5
52.5°	2173.9	1941.3	1304.6	948.3	875.2	884.2	917.0	951.2	969.1	970.6	985.5
55°	2215.6	1954.7	1246.5	894.6	832.0	833.5	851.4	878.2	885.6	879.7	890.1
57.5°	2239.5	1947.2	1182.4	839.4	787.2	781.3	794.7	808.1	809.6	794.7	805.1
60°	2245.4	1912.9	1098.9	784.3	742.5	726.1	730.6	727.6	724.6	718.7	727.6
62.5°	2215.6	1839.9	1006.4	730.6	694.8	669.5	668.0	666.5	670.9	672.4	673.9
65°	2106.8	1702.7	896.1	675.4	644.1	609.8	608.3	626.2	632.2	623.2	626.2
67.5°	1896.5	1492.5	775.3	611.3	580.0	550.2	562.1	572.5	583.0	580.0	583.0
70°	1598.3	1225.6	665.0	539.7	509.9	493.5	506.9	515.9	517.4	514.4	517.4
72.5°	1256.9	957.2	562.1	466.7	439.8	432.4	448.8	456.2	469.7	475.6	477.1
75°	908.0	706.7	460.7	387.7	365.3	365.3	380.2	393.6	405.5	398.1	393.6
77.5°	506.9	421.9	331.0	266.9	271.4	292.2	298.2	313.1	325.0	323.5	320.6
80°	307.1	263.9	223.6	173.0	171.5	187.9	226.6	252.0	257.9	244.5	243.0
82.5°	159.5	138.7	119.3	96.9	107.4	125.2	131.2	158.0	174.4	168.5	175.9
85°	40.3	38.8	43.2	44.7	55.2	61.1	67.1	79.0	52.2	25.3	25.3
87.5°	11.9	11.9	14.9	14.9	19.4	23.9	22.4	22.4	11.9	1.5	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)