

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: P836689

Luminaire Tested: **ARCH3-60-730-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-60-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 505mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10415 lumens
Efficiency: N/A
Efficacy: 164.8 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

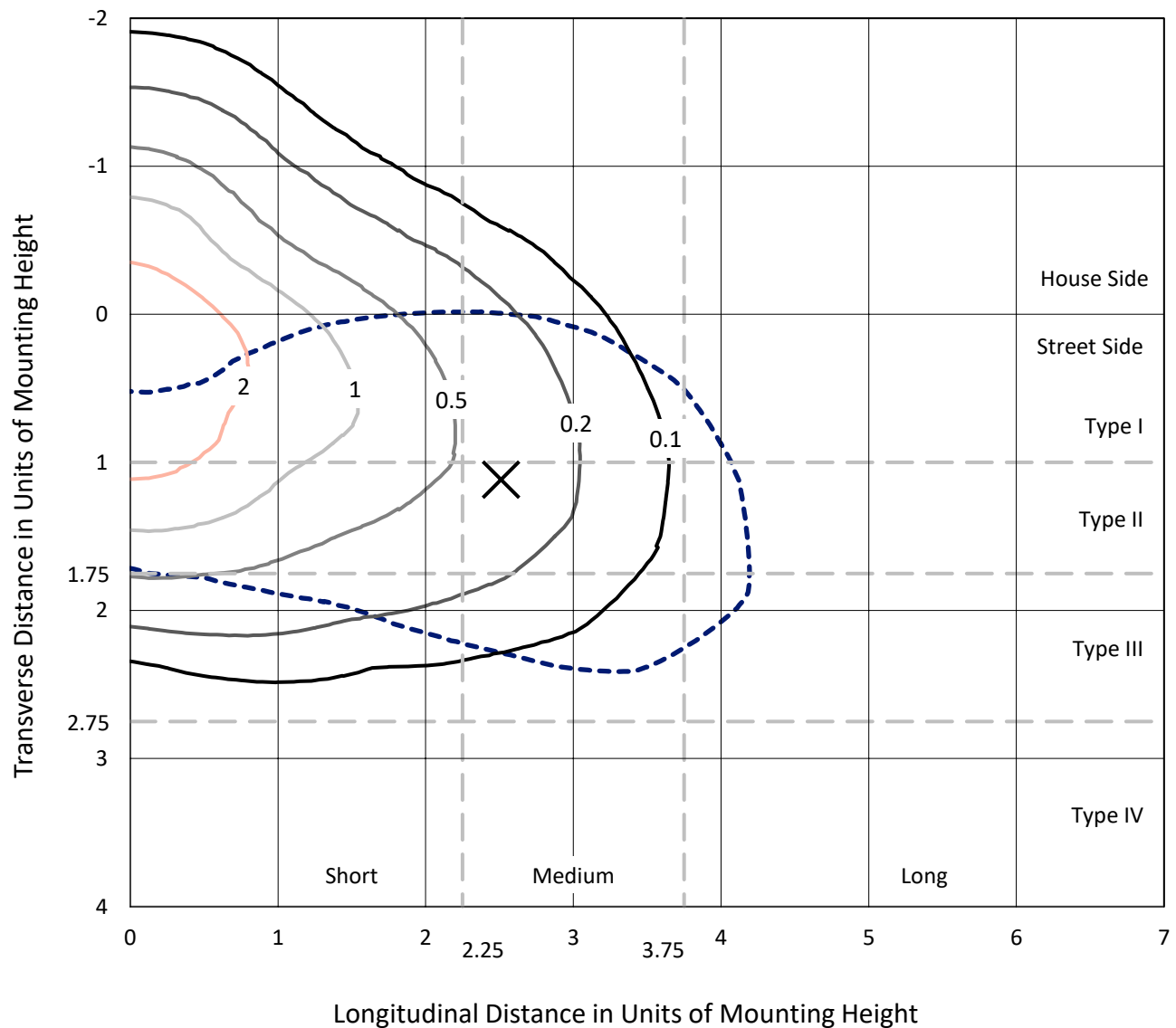
Input Watts (W): 63.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P836689
CATALOG NUMBER: ARCH3-60-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

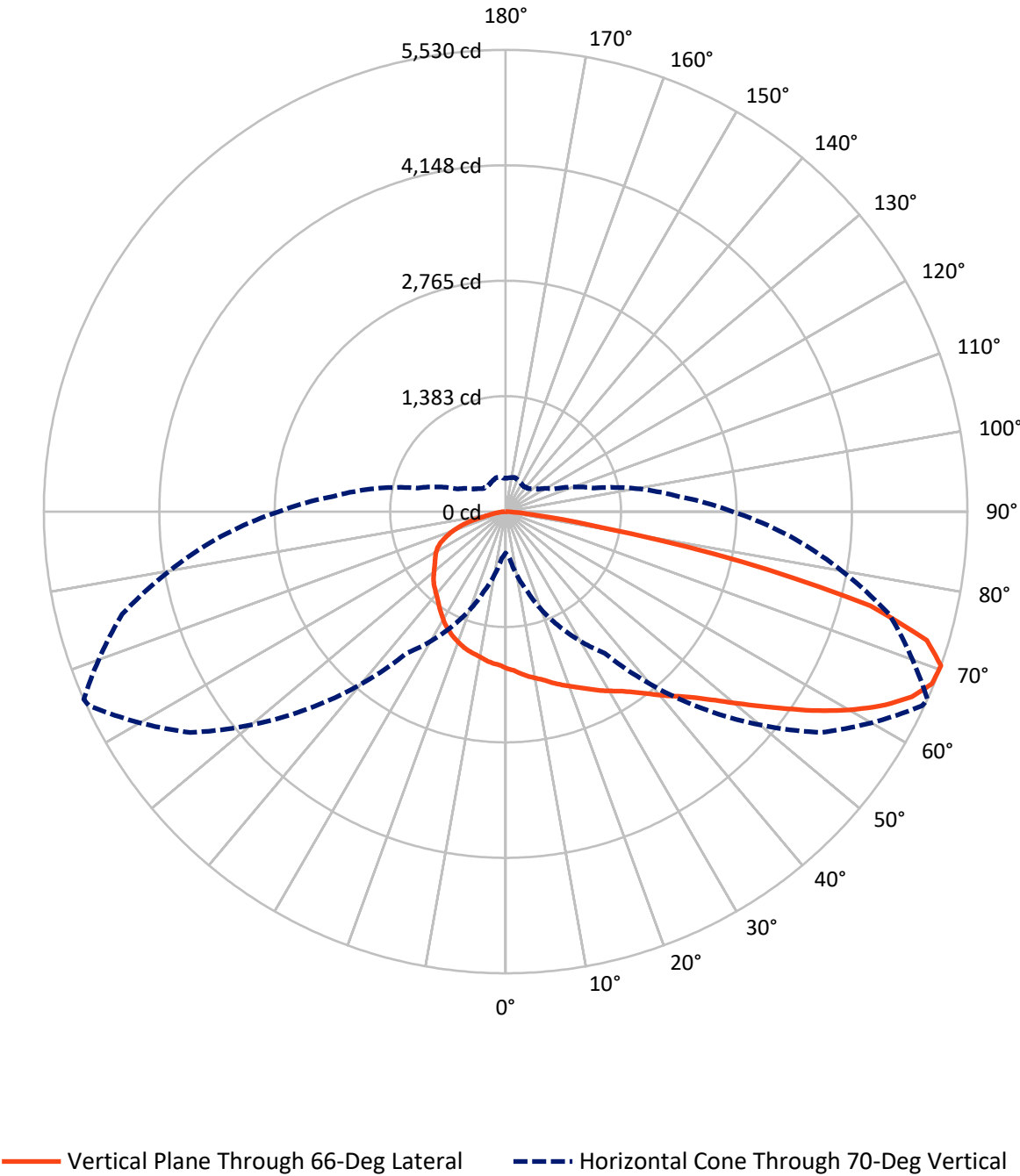
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
Type III - Medium - N/A

REPORT NUMBER: P836689
CATALOG NUMBER: ARCH3-60-730-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P836689

CATALOG NUMBER: ARCH3-60-730-U-T3

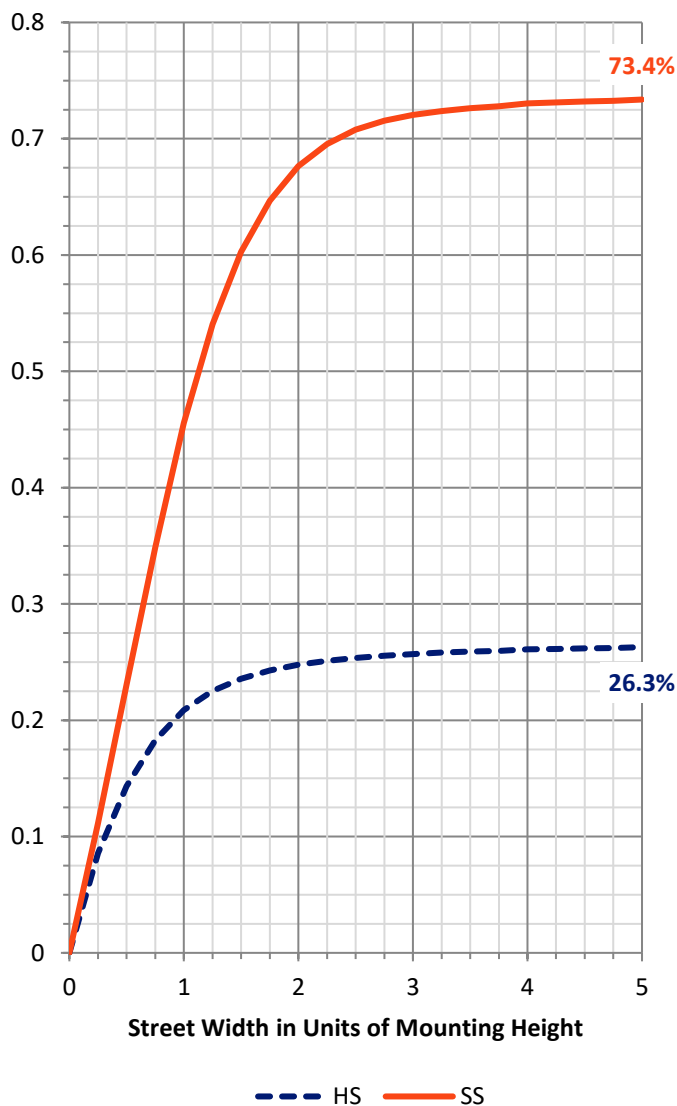
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2759.7	0.0	2759.7
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	7655.3	0.0	7655.3
	% Fixture	73.5	0.0	73.5
Total	Lumens	10415.0	0.0	10415.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.6	1.7
10°-20°	541.8	5.2
20°-30°	908.2	8.7
30°-40°	1359.9	13.1
40°-50°	1818.2	17.5
50°-60°	2122.8	20.4
60°-70°	2110.8	20.3
70°-80°	1249.6	12.0
80°-90°	123.2	1.2
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°	10415.0	100.0
0°-180°	10415.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836689

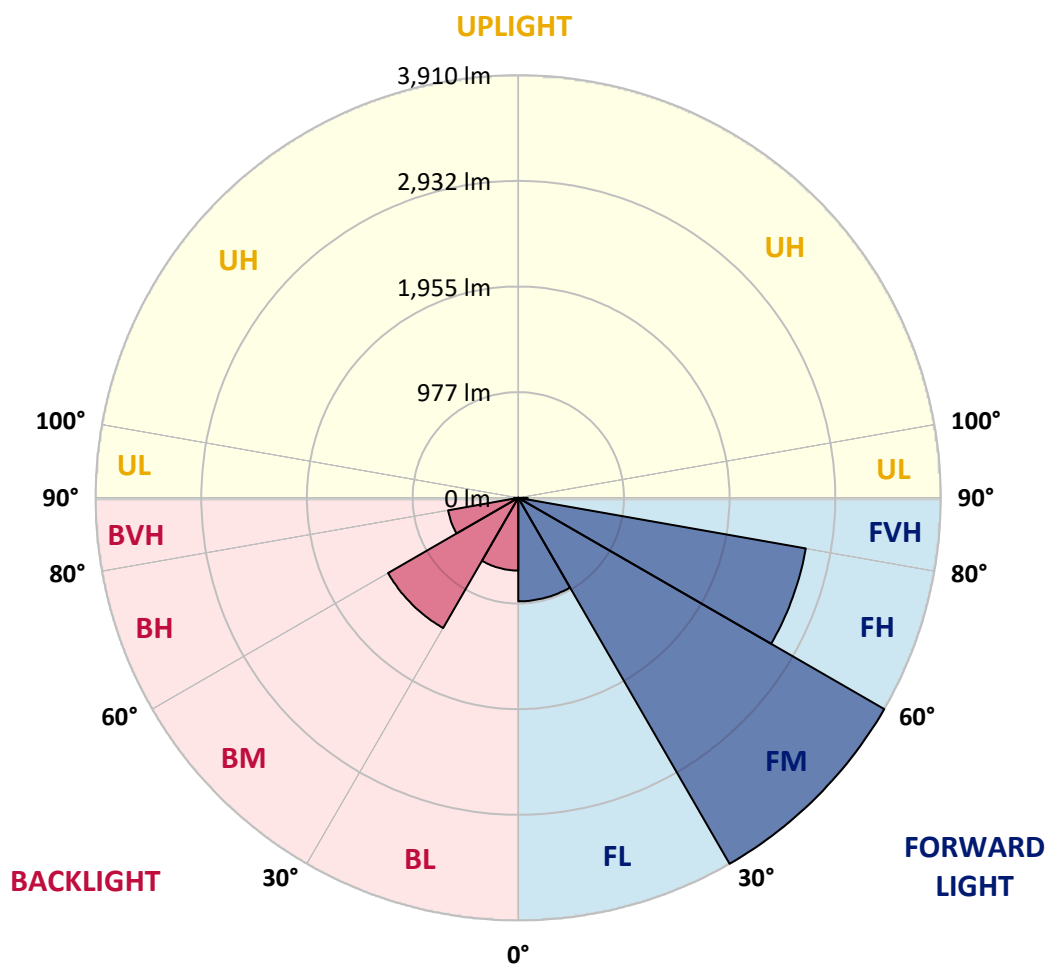
CATALOG NUMBER: ARCH3-60-730-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	957.9	9.2			
FM	(30°-60°)	3909.7	37.5			
FH	(60°-80°)	2701.2	25.9			G2/5000
FVH	(80°-90°)	86.6	0.8			G1/100
BL	(0°-30°)	672.7	6.5	B2/1000		
BM	(30°-60°)	1391.2	13.4	B2/2500		
BH	(60°-80°)	659.2	6.3	B2/1000		G2/1000
BVH	(80°-90°)	36.6	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 Medium



REPORT NUMBER: P836689

CATALOG NUMBER: ARCH3-60-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1879.7	1879.7	1879.7	1879.7	1879.7	1879.7	1879.7	1879.7	1879.7	1879.7	1879.7
2.5°	1948.8	1945.7	1944.2	1938.0	1924.2	1930.3	1916.5	1907.3	1905.8	1884.3	1872.0
5°	2028.6	2027.1	2024.0	2014.8	1993.3	1996.4	1973.3	1956.5	1951.8	1918.1	1892.0
7.5°	2096.2	2093.1	2091.6	2079.3	2056.3	2054.7	2027.1	2002.5	1994.8	1948.8	1908.8
10°	2148.4	2143.8	2146.9	2134.6	2110.0	2105.4	2070.1	2037.8	2030.2	1971.8	1916.5
12.5°	2192.9	2189.9	2194.5	2183.7	2163.8	2159.2	2123.8	2082.4	2073.2	2005.6	1933.4
15°	2242.1	2231.3	2240.6	2235.9	2222.1	2220.6	2188.3	2142.3	2130.0	2048.6	1959.5
17.5°	2268.2	2262.1	2272.8	2274.3	2268.2	2278.9	2248.2	2192.9	2182.2	2088.5	1982.6
20°	2286.6	2277.4	2289.7	2298.9	2303.5	2325.0	2300.4	2246.7	2234.4	2126.9	2004.1
22.5°	2349.6	2329.6	2331.2	2337.3	2340.4	2371.1	2355.7	2303.5	2291.2	2174.5	2030.2
25°	2507.8	2467.8	2441.7	2423.3	2401.8	2427.9	2418.7	2368.0	2357.3	2231.3	2062.4
27.5°	2753.5	2702.8	2650.6	2596.8	2512.4	2501.6	2486.3	2440.2	2427.9	2288.2	2094.7
30°	3033.0	2982.3	2920.9	2834.9	2676.7	2593.8	2558.4	2507.8	2493.9	2338.8	2125.4
32.5°	3310.9	3266.4	3205.0	3100.5	2874.8	2705.9	2630.6	2578.4	2564.6	2394.1	2162.2
35°	3527.5	3499.8	3459.9	3329.4	3071.4	2837.9	2735.0	2672.1	2656.7	2481.7	2229.8
37.5°	3702.5	3682.6	3648.8	3512.1	3214.2	2970.0	2854.8	2782.6	2765.8	2576.9	2302.0
40°	3960.5	3908.3	3880.7	3682.6	3338.6	3089.8	2990.0	2914.7	2896.3	2678.2	2360.3
42.5°	4180.1	4141.7	4107.9	3834.6	3456.8	3192.7	3117.4	3048.3	3023.8	2778.0	2423.3
45°	4217.0	4232.3	4215.4	3909.8	3644.2	3294.0	3246.4	3201.9	3178.9	2913.2	2518.5
47.5°	4218.5	4218.5	4118.7	3952.8	3876.1	3407.7	3384.6	3400.0	3375.4	3085.2	2632.2
50°	4107.9	4127.9	4075.7	3963.6	3937.5	3521.3	3553.6	3636.5	3611.9	3267.9	2755.0
52.5°	3879.1	3945.2	3943.6	3946.7	3848.4	3618.1	3731.7	3920.6	3879.1	3473.7	2885.5
55°	3475.2	3607.3	3725.6	3826.9	3771.6	3676.4	3949.8	4223.1	4180.1	3704.1	3017.6
57.5°	3129.7	3214.2	3361.6	3648.8	3681.0	3727.1	4154.0	4539.5	4501.1	3959.0	3155.8
60°	2735.0	2851.8	2999.2	3407.7	3570.5	3793.1	4378.2	4848.1	4811.3	4217.0	3289.4
62.5°	2128.5	2278.9	2573.8	3037.6	3409.2	3834.6	4554.8	5120.0	5103.1	4461.1	3409.2
65°	1483.5	1617.1	2030.2	2583.0	3152.7	3816.2	4696.1	5362.6	5347.2	4660.8	3493.7
67.5°	866.1	1021.2	1488.1	2079.3	2699.7	3688.7	4742.2	5505.4	5505.4	4782.1	3516.7
70°	494.5	566.7	981.3	1515.7	2070.1	3337.0	4613.2	5503.9	5530.0	4754.5	3421.5
72.5°	345.5	377.8	660.3	1019.7	1403.6	2699.7	4275.3	5238.2	5273.5	4493.4	3095.9
75°	268.7	291.8	465.3	695.7	884.6	1833.6	3536.7	4416.6	4510.3	3830.0	2503.2
77.5°	204.2	221.1	271.8	434.6	566.7	1053.5	2334.2	2896.3	2902.4	2345.0	1342.2
80°	149.0	165.9	181.2	265.7	301.0	493.0	881.5	1210.1	1176.3	1134.9	726.4
82.5°	89.1	106.0	110.6	144.4	147.4	210.4	308.7	390.1	374.7	499.1	340.9
85°	38.4	53.7	56.8	66.0	63.0	86.0	122.9	102.9	92.1	106.0	73.7
87.5°	9.2	15.4	15.4	16.9	13.8	21.5	23.0	16.9	15.4	18.4	18.4
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: P836689

CATALOG NUMBER: ARCH3-60-730-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1879.7	1879.7	1879.7	1879.7	1879.7	1879.7	1879.7	1879.7	1879.7	1879.7	1879.7
2.5°	1868.9	1864.3	1865.8	1839.7	1832.1	1824.4	1819.8	1816.7	1813.6	1818.2	1822.9
5°	1882.7	1872.0	1859.7	1821.3	1806.0	1789.1	1776.8	1766.0	1761.4	1761.4	1766.0
7.5°	1893.5	1875.1	1849.0	1798.3	1770.6	1747.6	1727.6	1713.8	1706.1	1706.1	1710.7
10°	1895.0	1868.9	1827.5	1766.0	1729.2	1695.4	1672.4	1657.0	1646.2	1646.2	1649.3
12.5°	1904.2	1868.9	1815.2	1741.5	1695.4	1653.9	1626.3	1603.2	1598.6	1598.6	1601.7
15°	1919.6	1876.6	1807.5	1720.0	1664.7	1617.1	1586.4	1561.8	1552.6	1558.7	1560.2
17.5°	1933.4	1881.2	1793.7	1692.3	1626.3	1574.1	1540.3	1518.8	1506.5	1520.3	1520.3
20°	1942.6	1881.2	1773.7	1657.0	1584.8	1526.5	1494.2	1468.1	1458.9	1475.8	1477.3
22.5°	1956.5	1879.7	1752.2	1621.7	1540.3	1478.9	1446.6	1426.6	1422.0	1440.5	1446.6
25°	1971.8	1882.7	1729.2	1581.7	1491.1	1431.3	1406.7	1397.5	1400.5	1423.6	1431.3
27.5°	1988.7	1888.9	1706.1	1537.2	1437.4	1383.6	1369.8	1374.4	1386.7	1415.9	1425.1
30°	2004.1	1890.4	1673.9	1485.0	1376.0	1325.3	1331.4	1351.4	1369.8	1399.0	1409.8
32.5°	2024.0	1892.0	1640.1	1428.2	1309.9	1273.1	1300.7	1333.0	1351.4	1379.0	1391.3
35°	2073.2	1918.1	1614.0	1372.9	1248.5	1228.5	1274.6	1316.1	1326.8	1351.4	1362.1
37.5°	2130.0	1961.1	1600.2	1316.1	1188.6	1184.0	1242.4	1283.8	1286.9	1302.3	1313.0
40°	2165.3	1979.5	1584.8	1268.5	1134.9	1137.9	1197.8	1230.1	1223.9	1234.7	1242.4
42.5°	2200.6	1985.6	1552.6	1228.5	1084.2	1087.3	1133.3	1156.4	1159.4	1182.5	1193.2
45°	2260.5	2002.5	1517.3	1191.7	1038.1	1027.4	1055.0	1085.7	1125.7	1170.2	1182.5
47.5°	2340.4	2037.8	1480.4	1147.2	993.6	958.3	969.0	1022.8	1064.2	1105.7	1113.4
50°	2421.8	2073.2	1446.6	1093.4	949.0	884.6	889.2	938.3	972.1	1004.3	1008.9
52.5°	2501.6	2103.9	1417.4	1042.7	898.4	797.0	815.4	866.1	889.2	904.5	909.1
55°	2581.5	2130.0	1391.3	999.7	840.0	727.9	744.8	792.4	815.4	823.1	826.2
57.5°	2664.4	2160.7	1371.4	962.9	774.0	666.5	677.2	711.0	732.5	741.7	738.7
60°	2733.5	2186.8	1360.6	924.5	707.9	609.7	606.6	637.3	668.0	677.2	674.2
62.5°	2787.3	2203.7	1343.7	875.3	649.6	552.8	537.5	577.4	609.7	615.8	620.4
65°	2816.4	2205.2	1302.3	812.4	589.7	491.4	480.7	520.6	540.6	546.7	546.7
67.5°	2811.8	2180.7	1220.9	727.9	534.4	436.1	426.9	451.5	480.7	485.3	480.7
70°	2716.6	2079.3	1090.3	638.8	468.4	387.0	370.1	394.7	422.3	405.4	397.7
72.5°	2446.3	1816.7	898.4	540.6	394.7	325.6	317.9	342.5	344.0	347.1	339.4
75°	1930.3	1352.9	672.6	420.8	319.4	273.4	271.8	267.2	273.4	285.6	276.4
77.5°	1013.5	675.7	364.0	258.0	231.9	219.6	208.9	207.3	225.7	233.4	224.2
80°	549.8	379.3	208.9	155.1	141.3	142.8	156.6	153.6	173.5	178.1	170.5
82.5°	239.6	179.7	102.9	93.7	93.7	92.1	96.7	107.5	129.0	129.0	102.9
85°	52.2	44.5	39.9	46.1	52.2	52.2	52.2	52.2	36.9	20.0	13.8
87.5°	16.9	16.9	16.9	18.4	20.0	20.0	16.9	12.3	7.7	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)