

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: P836761

Luminaire Tested: **ARCH3-70-730-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836761
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: ARCH3-70-730-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 580mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11861 lumens
Efficiency: N/A
Efficacy: 162.3 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

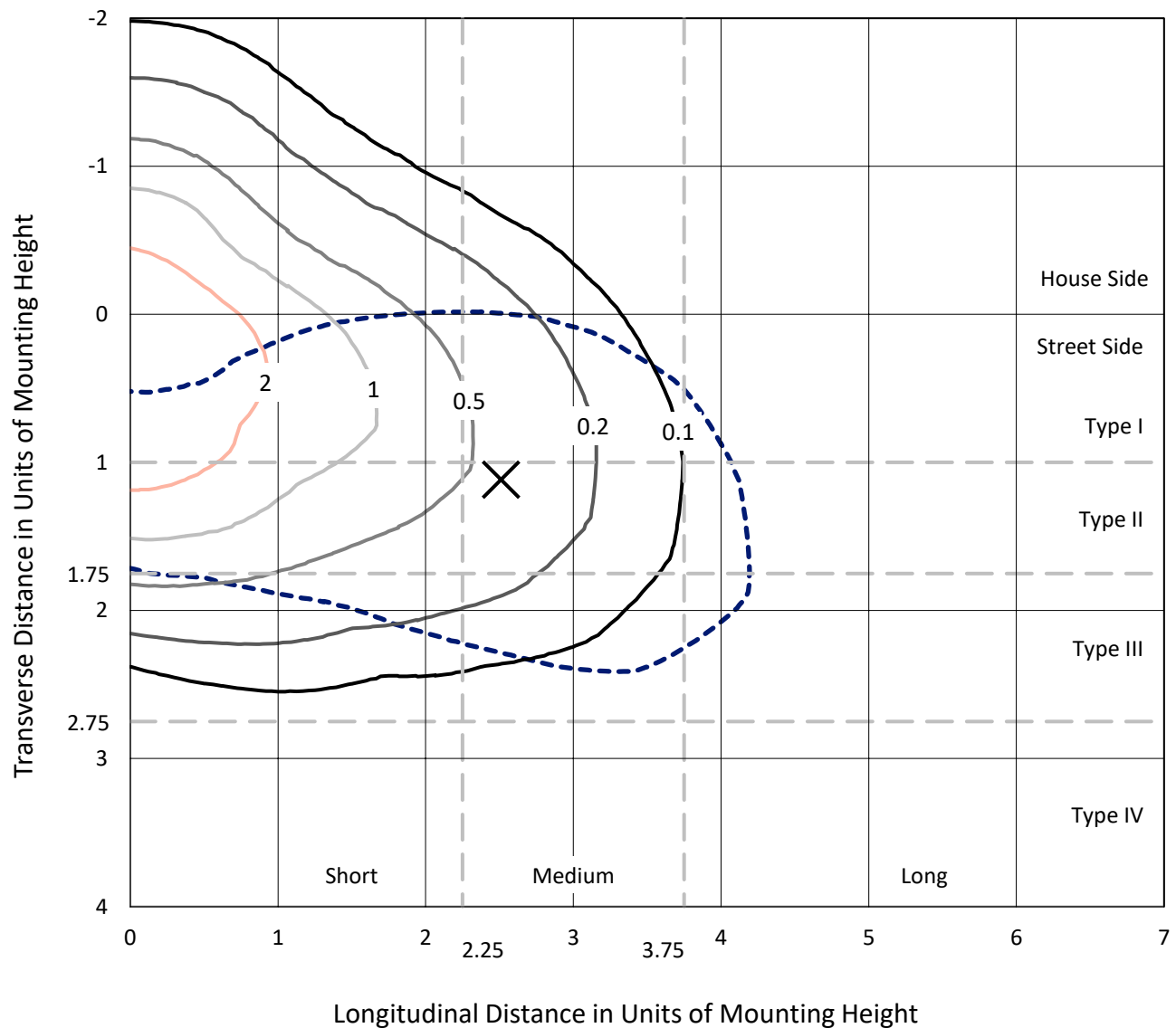
Input Watts (W): 73.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P836761
CATALOG NUMBER: ARCH3-70-730-U-T3

Iso-Footcandle Lines of Horizontal Illumination

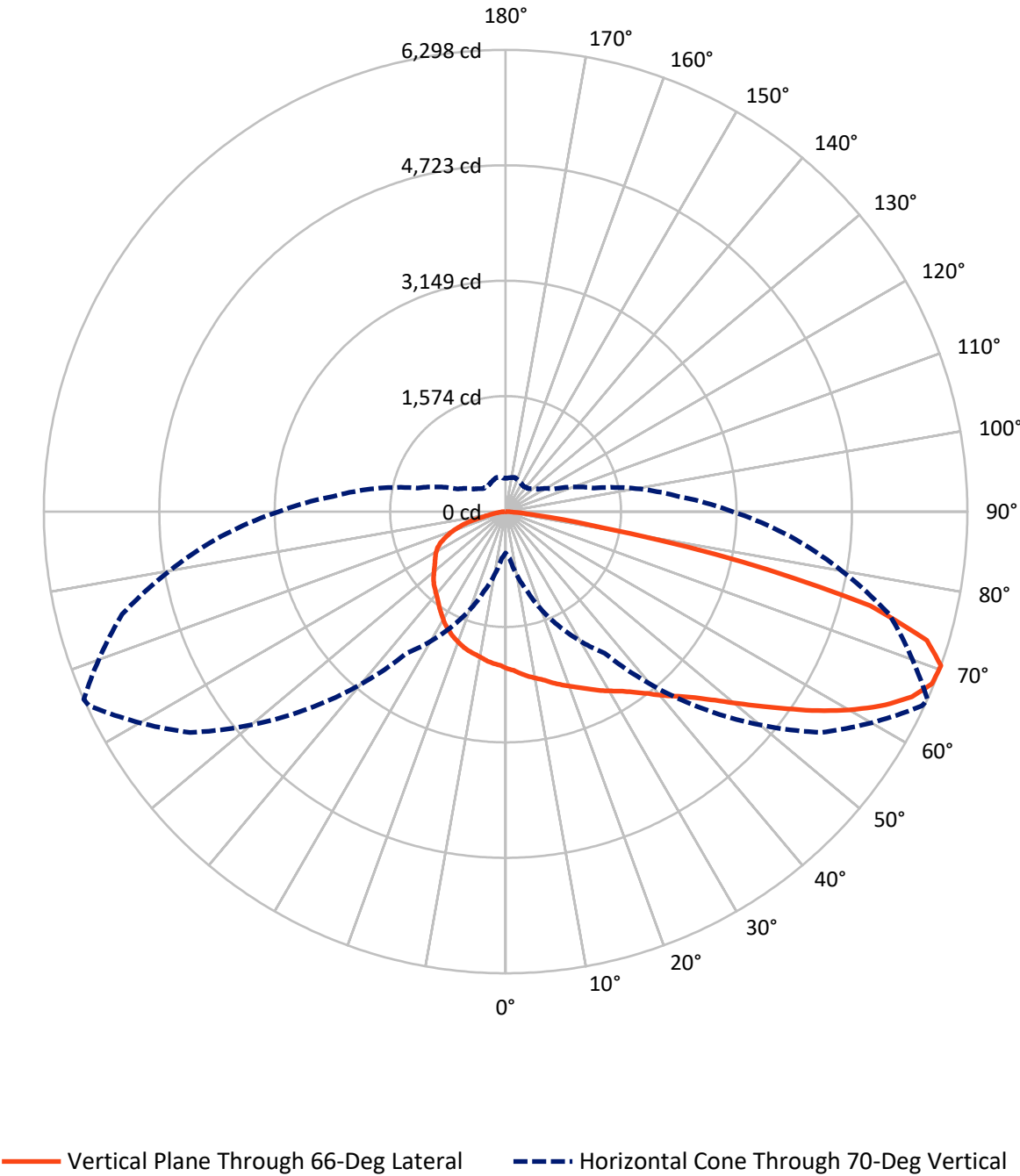
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 fc
Type III - Medium - N/A

REPORT NUMBER: P836761
CATALOG NUMBER: ARCH3-70-730-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P836761

CATALOG NUMBER: ARCH3-70-730-U-T3

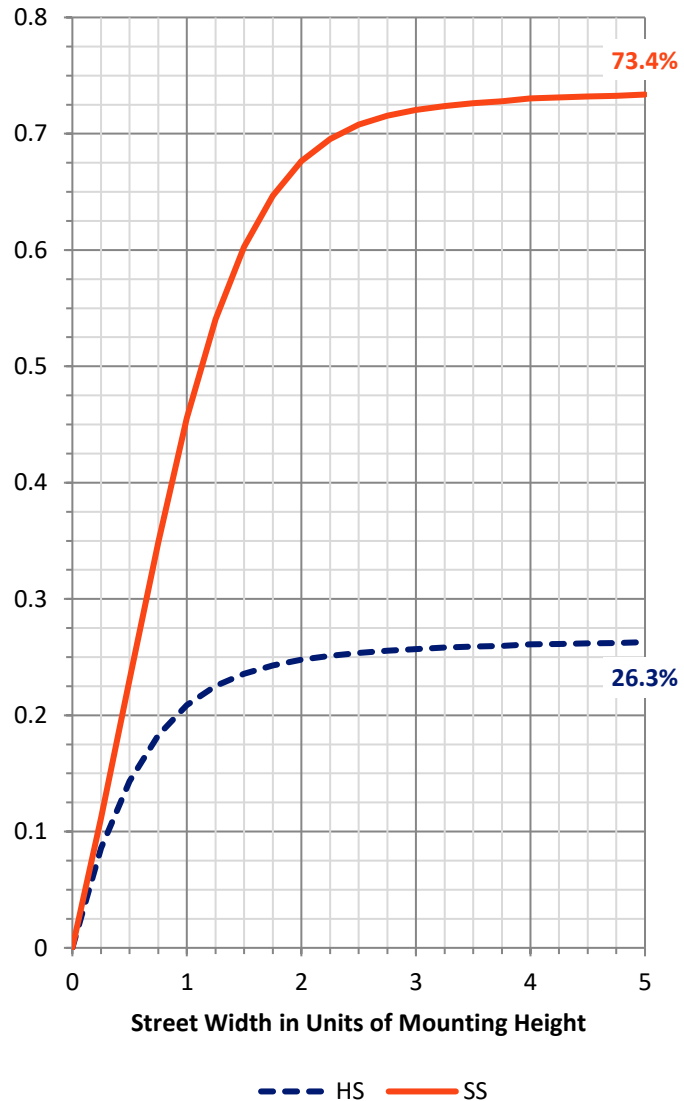
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3142.9	0.0	3142.9
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	8718.1	0.0	8718.1
	% Fixture	73.5	0.0	73.5
Total	Lumens	11861.0	0.0	11861.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.7	1.7
10°-20°	617.0	5.2
20°-30°	1034.3	8.7
30°-40°	1548.7	13.1
40°-50°	2070.6	17.5
50°-60°	2417.5	20.4
60°-70°	2403.8	20.3
70°-80°	1423.1	12.0
80°-90°	140.3	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°	11861.0	100.0
0°-180°	11861.0	100.0

Coefficient of Utilization



REPORT NUMBER: P836761

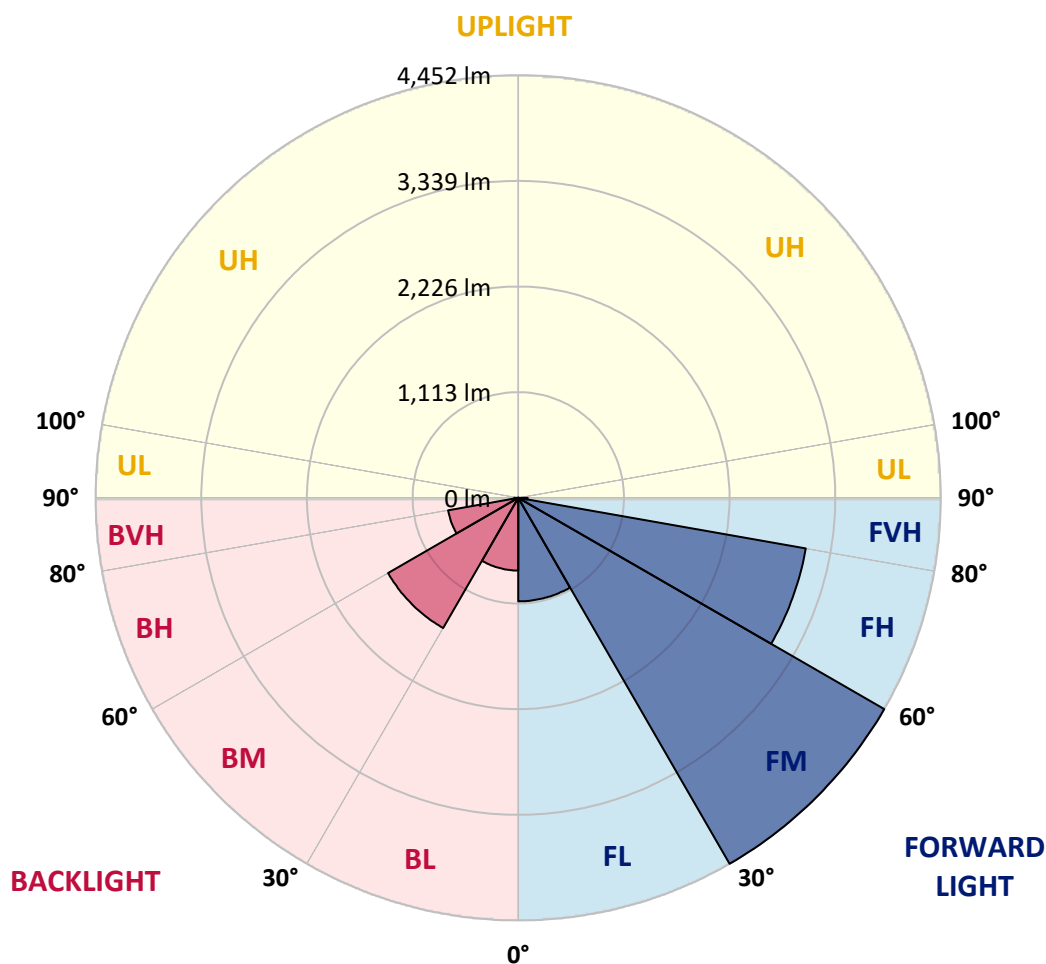
CATALOG NUMBER: ARCH3-70-730-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1090.9	9.2			
FM	(30°-60°)	4452.5	37.5			
FH	(60°-80°)	3076.2	25.9			G2/5000
FVH	(80°-90°)	98.6	0.8			G1/100
BL	(0°-30°)	766.1	6.5	B2/1000		
BM	(30°-60°)	1584.3	13.4	B2/2500		
BH	(60°-80°)	750.8	6.3	B2/1000		G2/1000
BVH	(80°-90°)	41.7	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: P836761

CATALOG NUMBER: ARCH3-70-730-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2140.6	2140.6	2140.6	2140.6	2140.6	2140.6	2140.6	2140.6	2140.6	2140.6	2140.6
2.5°	2219.3	2215.8	2214.1	2207.1	2191.4	2198.4	2182.6	2172.1	2170.4	2145.9	2131.9
5°	2310.3	2308.5	2305.0	2294.5	2270.1	2273.6	2247.3	2228.1	2222.8	2184.4	2154.6
7.5°	2387.2	2383.7	2382.0	2368.0	2341.8	2340.0	2308.5	2280.6	2271.8	2219.3	2173.9
10°	2446.7	2441.4	2444.9	2431.0	2403.0	2397.7	2357.5	2320.8	2312.0	2245.6	2182.6
12.5°	2497.4	2493.9	2499.2	2486.9	2464.2	2458.9	2418.7	2371.5	2361.0	2284.0	2201.9
15°	2553.4	2541.1	2551.6	2546.4	2530.6	2528.9	2492.2	2439.7	2425.7	2333.0	2231.6
17.5°	2583.1	2576.1	2588.4	2590.1	2583.1	2595.4	2560.4	2497.4	2485.2	2378.5	2257.8
20°	2604.1	2593.6	2607.6	2618.1	2623.3	2647.8	2619.8	2558.6	2544.6	2422.2	2282.3
22.5°	2675.8	2653.1	2654.8	2661.8	2665.3	2700.3	2682.8	2623.3	2609.3	2476.4	2312.0
25°	2855.9	2810.5	2780.7	2759.7	2735.3	2765.0	2754.5	2696.8	2684.5	2541.1	2348.8
27.5°	3135.8	3078.0	3018.6	2957.4	2861.2	2848.9	2831.5	2779.0	2765.0	2605.8	2385.5
30°	3454.1	3396.3	3326.4	3228.4	3048.3	2953.9	2913.6	2855.9	2840.2	2663.6	2420.5
32.5°	3770.6	3719.9	3649.9	3531.0	3273.9	3081.5	2995.8	2936.4	2920.6	2726.5	2462.4
35°	4017.2	3985.7	3940.2	3791.6	3497.8	3231.9	3114.8	3043.1	3025.6	2826.2	2539.4
37.5°	4216.6	4193.8	4155.4	3999.7	3660.4	3382.4	3251.2	3169.0	3149.7	2934.6	2621.6
40°	4510.4	4450.9	4419.4	4193.8	3802.1	3518.8	3405.1	3319.4	3298.4	3050.1	2688.0
42.5°	4760.5	4716.8	4678.3	4367.0	3936.7	3635.9	3550.2	3471.5	3443.6	3163.7	2759.7
45°	4802.4	4819.9	4800.7	4452.7	4150.1	3751.4	3697.2	3646.4	3620.2	3317.6	2868.2
47.5°	4804.2	4804.2	4690.5	4501.6	4414.2	3880.8	3854.6	3872.0	3844.1	3513.5	2997.6
50°	4678.3	4701.0	4641.6	4513.9	4484.2	4010.2	4046.9	4141.4	4113.4	3721.6	3137.5
52.5°	4417.7	4492.9	4491.1	4494.6	4382.7	4120.4	4249.8	4464.9	4417.7	3956.0	3286.2
55°	3957.7	4108.1	4242.8	4358.2	4295.3	4186.8	4498.1	4809.4	4760.5	4218.3	3436.6
57.5°	3564.2	3660.4	3828.3	4155.4	4192.1	4244.6	4730.7	5169.7	5126.0	4508.6	3594.0
60°	3114.8	3247.7	3415.6	3880.8	4066.2	4319.8	4986.1	5521.2	5479.3	4802.4	3746.1
62.5°	2424.0	2595.4	2931.1	3459.3	3882.5	4367.0	5187.2	5830.8	5811.6	5080.5	3882.5
65°	1689.4	1841.6	2312.0	2941.6	3590.5	4346.0	5348.1	6107.1	6089.6	5307.9	3978.7
67.5°	986.4	1163.0	1694.7	2368.0	3074.5	4200.8	5400.6	6269.8	6269.8	5446.0	4005.0
70°	563.1	645.3	1117.5	1726.2	2357.5	3800.3	5253.7	6268.0	6297.8	5414.6	3896.5
72.5°	393.5	430.2	752.0	1161.3	1598.5	3074.5	4868.9	5965.5	6005.7	5117.2	3525.8
75°	306.1	332.3	529.9	792.2	1007.4	2088.2	4027.7	5029.8	5136.5	4361.7	2850.7
77.5°	232.6	251.8	309.6	494.9	645.3	1199.7	2658.3	3298.4	3305.4	2670.6	1528.5
80°	169.6	188.9	206.4	302.6	342.8	561.4	1003.9	1378.1	1339.6	1292.4	827.2
82.5°	101.4	120.7	125.9	164.4	167.9	239.6	351.5	444.2	426.7	568.4	388.3
85°	43.7	61.2	64.7	75.2	71.7	97.9	139.9	117.2	104.9	120.7	83.9
87.5°	10.5	17.5	17.5	19.2	15.7	24.5	26.2	19.2	17.5	21.0	21.0
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: P836761

CATALOG NUMBER: ARCH3-70-730-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2140.6	2140.6	2140.6	2140.6	2140.6	2140.6	2140.6	2140.6	2140.6	2140.6	2140.6
2.5°	2128.4	2123.2	2124.9	2095.2	2086.4	2077.7	2072.4	2068.9	2065.4	2070.7	2075.9
5°	2144.1	2131.9	2117.9	2074.2	2056.7	2037.5	2023.5	2011.2	2006.0	2006.0	2011.2
7.5°	2156.4	2135.4	2105.7	2047.9	2016.5	1990.2	1967.5	1951.8	1943.0	1943.0	1948.3
10°	2158.1	2128.4	2081.2	2011.2	1969.2	1930.8	1904.5	1887.1	1874.8	1874.8	1878.3
12.5°	2168.6	2128.4	2067.2	1983.2	1930.8	1883.6	1852.1	1825.8	1820.6	1820.6	1824.1
15°	2186.1	2137.1	2058.4	1958.8	1895.8	1841.6	1806.6	1778.6	1768.1	1775.1	1776.9
17.5°	2201.9	2142.4	2042.7	1927.3	1852.1	1792.6	1754.1	1729.7	1715.7	1731.4	1731.4
20°	2212.3	2142.4	2020.0	1887.1	1804.9	1738.4	1701.7	1671.9	1661.4	1680.7	1682.4
22.5°	2228.1	2140.6	1995.5	1846.8	1754.1	1684.2	1647.5	1624.7	1619.5	1640.5	1647.5
25°	2245.6	2144.1	1969.2	1801.4	1698.2	1630.0	1602.0	1591.5	1595.0	1621.2	1630.0
27.5°	2264.8	2151.1	1943.0	1750.6	1637.0	1575.7	1560.0	1565.3	1579.2	1612.5	1623.0
30°	2282.3	2152.9	1906.3	1691.2	1567.0	1509.3	1516.3	1539.0	1560.0	1593.2	1605.5
32.5°	2305.0	2154.6	1867.8	1626.5	1491.8	1449.8	1481.3	1518.0	1539.0	1570.5	1584.5
35°	2361.0	2184.4	1838.1	1563.5	1421.8	1399.1	1451.6	1498.8	1511.0	1539.0	1551.3
37.5°	2425.7	2233.3	1822.3	1498.8	1353.6	1348.4	1414.9	1462.1	1465.6	1483.1	1495.3
40°	2465.9	2254.3	1804.9	1444.6	1292.4	1295.9	1364.1	1400.9	1393.9	1406.1	1414.9
42.5°	2506.2	2261.3	1768.1	1399.1	1234.7	1238.2	1290.7	1316.9	1320.4	1346.6	1358.9
45°	2574.4	2280.6	1727.9	1357.1	1182.2	1170.0	1201.5	1236.5	1281.9	1332.7	1346.6
47.5°	2665.3	2320.8	1685.9	1306.4	1131.5	1091.3	1103.5	1164.8	1212.0	1259.2	1267.9
50°	2758.0	2361.0	1647.5	1245.2	1080.8	1007.4	1012.6	1068.6	1107.0	1143.8	1149.0
52.5°	2848.9	2396.0	1614.2	1187.5	1023.1	907.7	928.7	986.4	1012.6	1030.1	1035.3
55°	2939.9	2425.7	1584.5	1138.5	956.6	829.0	848.2	902.4	928.7	937.4	940.9
57.5°	3034.3	2460.7	1561.8	1096.6	881.4	759.0	771.3	809.7	834.2	844.7	841.2
60°	3113.0	2490.4	1549.5	1052.8	806.2	694.3	690.8	725.8	760.8	771.3	767.8
62.5°	3174.2	2509.7	1530.3	996.9	739.8	629.6	612.1	657.6	694.3	701.3	706.6
65°	3207.5	2511.4	1483.1	925.2	671.6	559.6	547.4	592.9	615.6	622.6	622.6
67.5°	3202.2	2483.4	1390.4	829.0	608.6	496.7	486.2	514.2	547.4	552.6	547.4
70°	3093.8	2368.0	1241.7	727.5	533.4	440.7	421.5	449.5	480.9	461.7	453.0
72.5°	2786.0	2068.9	1023.1	615.6	449.5	370.8	362.0	390.0	391.8	395.2	386.5
75°	2198.4	1540.8	766.0	479.2	363.8	311.3	309.6	304.3	311.3	325.3	314.8
77.5°	1154.3	769.5	414.5	293.8	264.1	250.1	237.8	236.1	257.1	265.8	255.3
80°	626.1	432.0	237.8	176.6	160.9	162.6	178.4	174.9	197.6	202.9	194.1
82.5°	272.8	204.6	117.2	106.7	106.7	104.9	110.2	122.4	146.9	146.9	117.2
85°	59.5	50.7	45.5	52.5	59.5	59.5	59.5	59.5	42.0	22.7	15.7
87.5°	19.2	19.2	19.2	21.0	22.7	22.7	19.2	14.0	8.7	1.7	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)