

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: P842527

Luminaire Tested: **ARCH4-60-727-U-T3**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-60-727-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 520mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE III
OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10714 lumens
Efficiency: N/A
Efficacy: 170.1 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

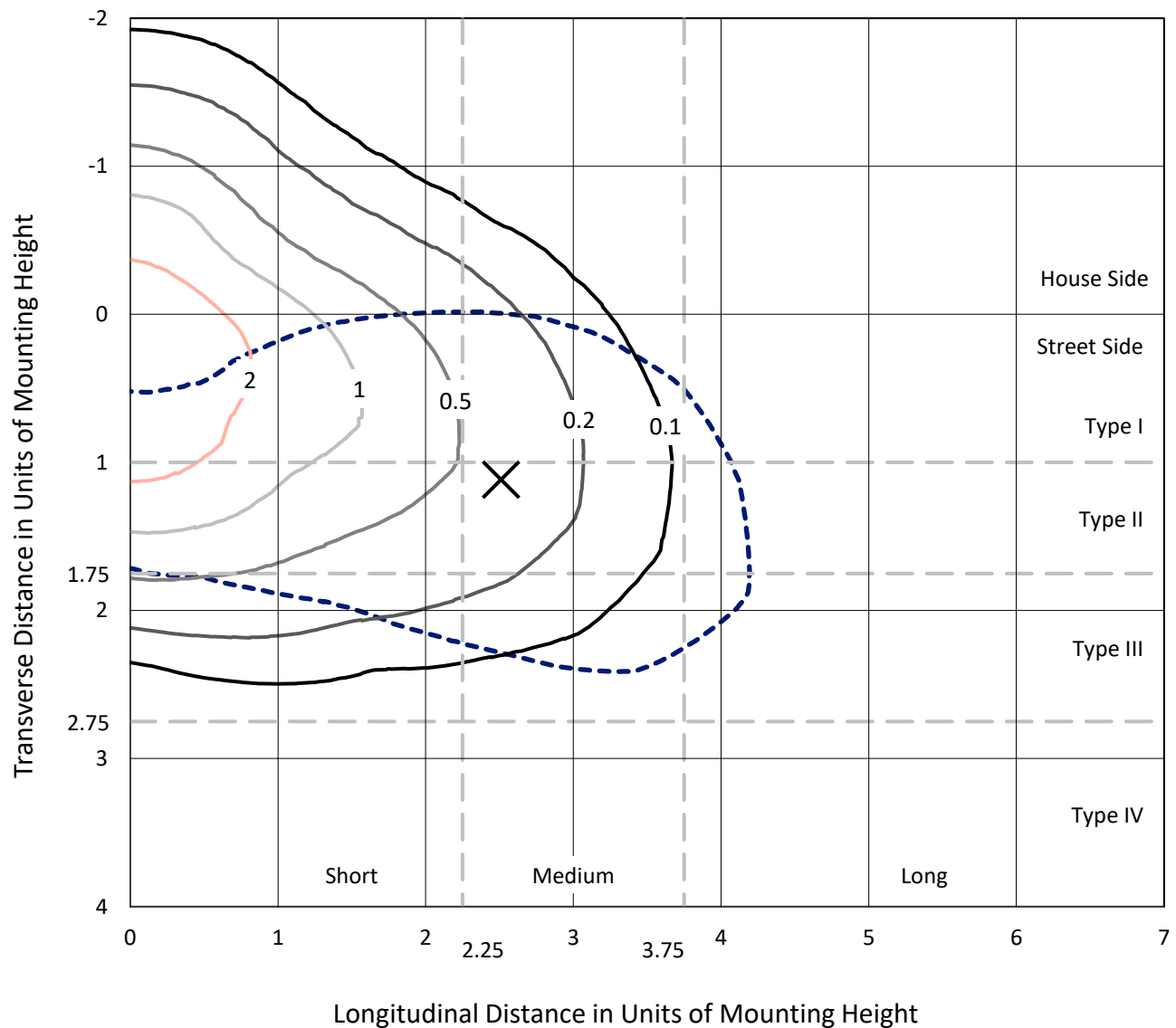
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P842527
CATALOG NUMBER: ARCH4-60-727-U-T3

Iso-Footcandle Lines of Horizontal Illumination

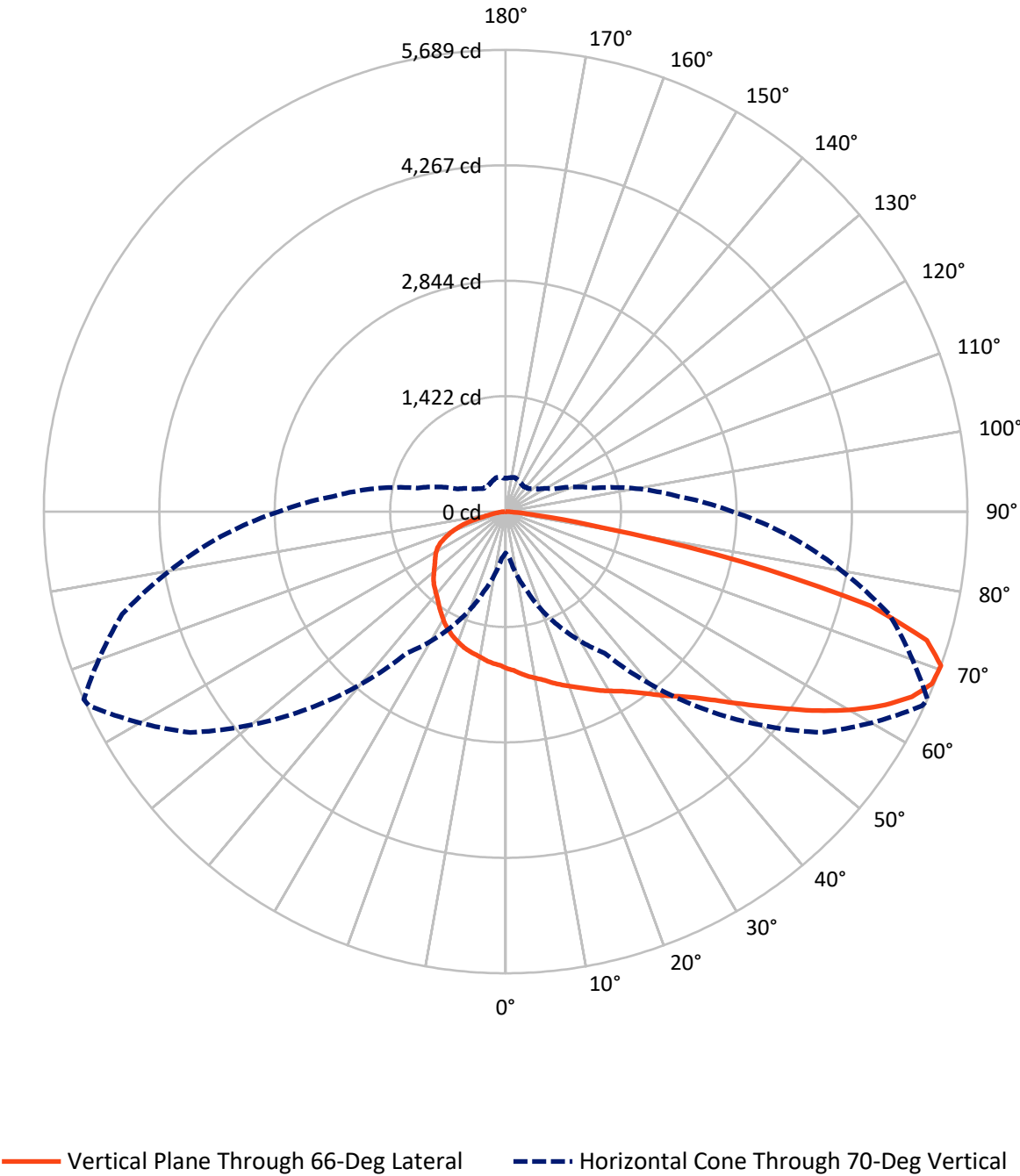
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
Type III - Medium - N/A

REPORT NUMBER: P842527
CATALOG NUMBER: ARCH4-60-727-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P842527

CATALOG NUMBER: ARCH4-60-727-U-T3

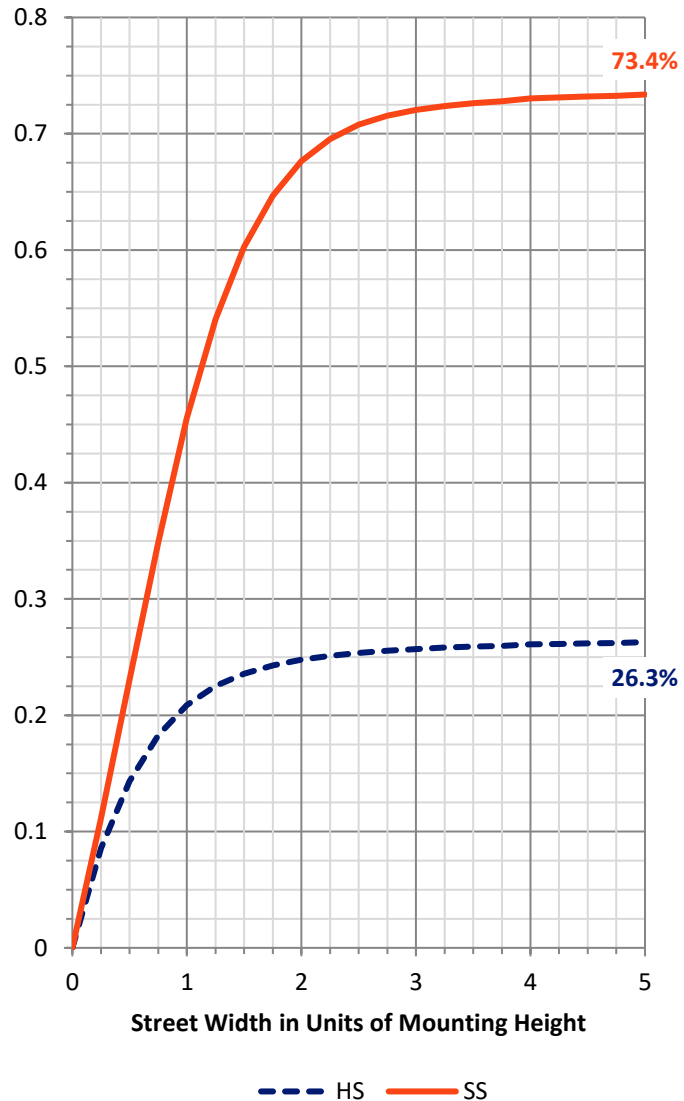
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2839.0	0.0	2839.0
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	7875.0	0.0	7875.0
	% Fixture	73.5	0.0	73.5
Total	Lumens	10714.0	0.0	10714.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.8	1.7
10°-20°	557.3	5.2
20°-30°	934.3	8.7
30°-40°	1398.9	13.1
40°-50°	1870.4	17.5
50°-60°	2183.7	20.4
60°-70°	2171.4	20.3
70°-80°	1285.5	12.0
80°-90°	126.7	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°	10714.0	100.0
0°-180°	10714.0	100.0

Coefficient of Utilization



REPORT NUMBER: P842527

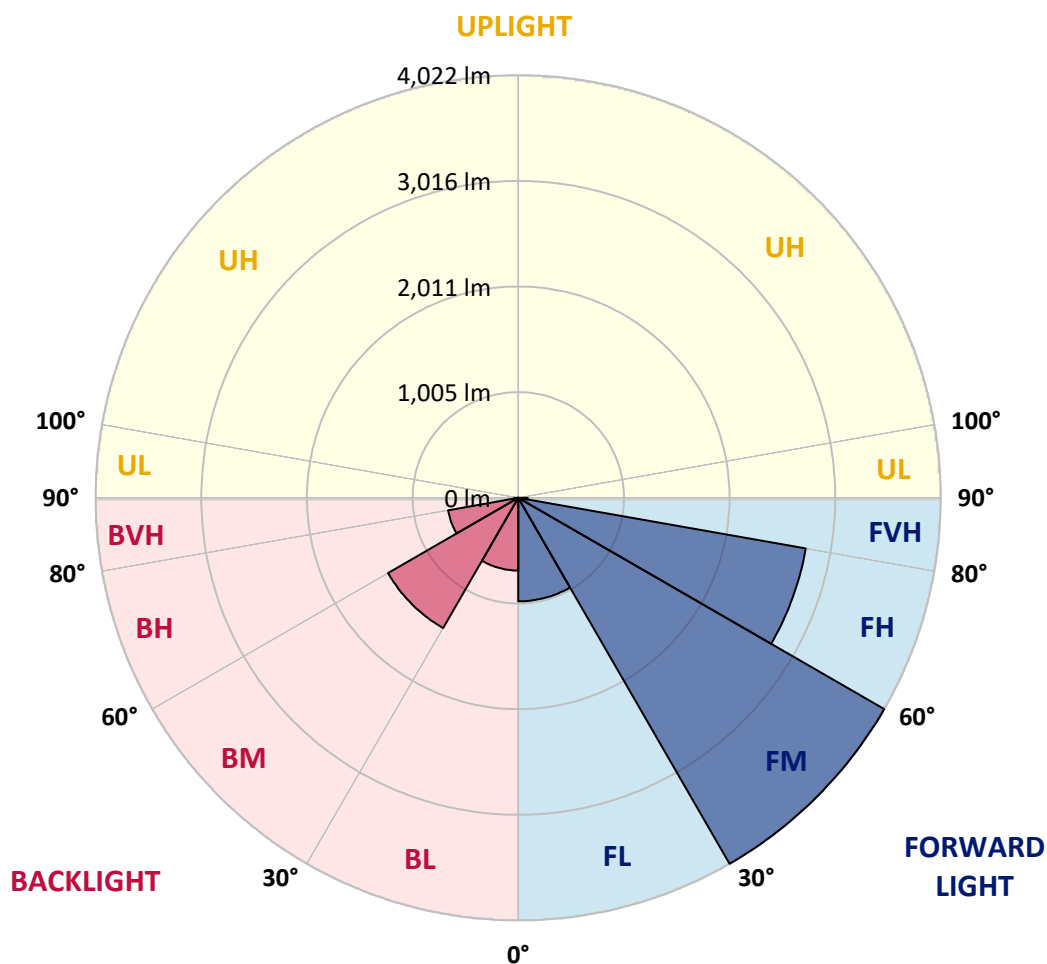
CATALOG NUMBER: ARCH4-60-727-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	985.4	9.2			
FM	(30°-60°)	4021.9	37.5			
FH	(60°-80°)	2778.7	25.9			G2/5000
FVH	(80°-90°)	89.0	0.8			G1/100
BL	(0°-30°)	692.0	6.5	B2/1000		
BM	(30°-60°)	1431.1	13.4	B2/2500		
BH	(60°-80°)	678.2	6.3	B2/1000		G2/1000
BVH	(80°-90°)	37.7	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: P842527

CATALOG NUMBER: ARCH4-60-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1933.6	1933.6	1933.6	1933.6	1933.6	1933.6	1933.6	1933.6	1933.6	1933.6	1933.6
2.5°	2004.7	2001.6	2000.0	1993.7	1979.4	1985.8	1971.5	1962.1	1960.5	1938.4	1925.7
5°	2086.9	2085.3	2082.1	2072.7	2050.5	2053.7	2030.0	2012.6	2007.9	1973.1	1946.3
7.5°	2156.4	2153.2	2151.6	2139.0	2115.3	2113.7	2085.3	2060.0	2052.1	2004.7	1963.6
10°	2210.1	2205.4	2208.5	2195.9	2170.6	2165.9	2129.5	2096.3	2088.5	2028.4	1971.5
12.5°	2255.9	2252.7	2257.5	2246.4	2225.9	2221.2	2184.8	2142.2	2132.7	2063.2	1988.9
15°	2306.5	2295.4	2304.9	2300.1	2285.9	2284.3	2251.2	2203.8	2191.1	2107.4	2015.8
17.5°	2333.3	2327.0	2338.1	2339.6	2333.3	2344.4	2312.8	2255.9	2244.8	2148.5	2039.5
20°	2352.3	2342.8	2355.4	2364.9	2369.6	2391.8	2366.5	2311.2	2298.6	2188.0	2061.6
22.5°	2417.0	2396.5	2398.1	2404.4	2407.6	2439.2	2423.4	2369.6	2357.0	2236.9	2088.5
25°	2579.8	2538.7	2511.8	2492.9	2470.8	2497.6	2488.1	2436.0	2424.9	2295.4	2121.6
27.5°	2832.5	2780.4	2726.7	2671.4	2584.5	2573.4	2557.6	2510.2	2497.6	2353.9	2154.8
30°	3120.0	3067.9	3004.7	2916.2	2753.5	2668.2	2631.9	2579.8	2565.5	2406.0	2186.4
32.5°	3406.0	3360.2	3297.0	3189.5	2957.3	2783.5	2706.1	2652.4	2638.2	2462.9	2224.3
35°	3628.7	3600.3	3559.2	3424.9	3159.5	2919.4	2813.6	2748.8	2733.0	2552.9	2293.8
37.5°	3808.8	3788.3	3753.5	3612.9	3306.4	3055.3	2936.8	2862.5	2845.2	2650.8	2368.1
40°	4074.2	4020.5	3992.1	3788.3	3434.4	3178.5	3075.8	2998.4	2979.4	2755.1	2428.1
42.5°	4300.1	4260.6	4225.9	3944.7	3556.1	3284.3	3206.9	3135.8	3110.6	2857.8	2492.9
45°	4338.0	4353.8	4336.5	4022.1	3748.8	3388.6	3339.6	3293.8	3270.1	2996.8	2590.8
47.5°	4339.6	4339.6	4236.9	4066.3	3987.3	3505.5	3481.8	3497.6	3472.3	3173.7	2707.7
50°	4225.9	4246.4	4192.7	4077.4	4050.5	3622.4	3655.6	3740.9	3715.6	3361.7	2834.1
52.5°	3990.5	4058.4	4056.8	4060.0	3958.9	3721.9	3838.8	4033.1	3990.5	3573.4	2968.4
55°	3575.0	3710.9	3832.5	3936.8	3879.9	3782.0	4063.2	4344.4	4300.1	3810.4	3104.2
57.5°	3219.6	3306.4	3458.1	3753.5	3786.7	3834.1	4273.3	4669.8	4630.3	4072.6	3246.4
60°	2813.6	2933.6	3085.3	3505.5	3673.0	3902.0	4503.9	4987.3	4949.4	4338.0	3383.9
62.5°	2189.6	2344.4	2647.7	3124.8	3507.1	3944.7	4685.6	5266.9	5249.6	4589.2	3507.1
65°	1526.1	1663.5	2088.5	2657.2	3243.3	3925.7	4830.9	5516.5	5500.7	4794.6	3594.0
67.5°	891.0	1050.5	1530.8	2139.0	2777.2	3794.6	4878.3	5663.5	5663.5	4919.4	3617.7
70°	508.7	582.9	1009.5	1559.2	2129.5	3432.8	4745.6	5661.9	5688.7	4891.0	3519.7
72.5°	355.4	388.6	679.3	1049.0	1443.9	2777.2	4398.1	5388.6	5424.9	4622.4	3184.8
75°	276.5	300.2	478.7	715.6	909.9	1886.2	3638.2	4543.4	4639.8	3939.9	2575.0
77.5°	210.1	227.5	279.6	447.1	582.9	1083.7	2401.2	2979.4	2985.8	2412.3	1380.7
80°	153.2	170.6	186.4	273.3	309.6	507.1	906.8	1244.9	1210.1	1167.4	747.2
82.5°	91.6	109.0	113.7	148.5	151.7	216.4	317.5	401.3	385.5	513.4	350.7
85°	39.5	55.3	58.5	67.9	64.8	88.5	126.4	105.8	94.8	109.0	75.8
87.5°	9.5	15.8	15.8	17.4	14.2	22.1	23.7	17.4	15.8	19.0	19.0
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: P842527

CATALOG NUMBER: ARCH4-60-727-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1933.6	1933.6	1933.6	1933.6	1933.6	1933.6	1933.6	1933.6	1933.6	1933.6	1933.6
2.5°	1922.6	1917.8	1919.4	1892.6	1884.7	1876.8	1872.0	1868.9	1865.7	1870.4	1875.2
5°	1936.8	1925.7	1913.1	1873.6	1857.8	1840.4	1827.8	1816.7	1812.0	1812.0	1816.7
7.5°	1947.9	1928.9	1902.0	1849.9	1821.5	1797.8	1777.2	1763.0	1755.1	1755.1	1759.9
10°	1949.4	1922.6	1879.9	1816.7	1778.8	1744.1	1720.4	1704.6	1693.5	1693.5	1696.7
12.5°	1958.9	1922.6	1867.3	1791.5	1744.1	1701.4	1673.0	1649.3	1644.5	1644.5	1647.7
15°	1974.7	1930.5	1859.4	1769.3	1712.5	1663.5	1631.9	1606.6	1597.1	1603.5	1605.0
17.5°	1988.9	1935.2	1845.2	1740.9	1673.0	1619.3	1584.5	1562.4	1549.7	1564.0	1564.0
20°	1998.4	1935.2	1824.6	1704.6	1630.3	1570.3	1537.1	1510.3	1500.8	1518.2	1519.7
22.5°	2012.6	1933.6	1802.5	1668.2	1584.5	1521.3	1488.1	1467.6	1462.9	1481.8	1488.1
25°	2028.4	1936.8	1778.8	1627.2	1534.0	1472.3	1447.1	1437.6	1440.7	1464.4	1472.3
27.5°	2045.8	1943.1	1755.1	1581.3	1478.7	1423.4	1409.2	1413.9	1426.5	1456.5	1466.0
30°	2061.6	1944.7	1721.9	1527.6	1415.5	1363.3	1369.7	1390.2	1409.2	1439.2	1450.2
32.5°	2082.1	1946.3	1687.2	1469.2	1347.5	1309.6	1338.1	1371.2	1390.2	1418.6	1431.3
35°	2132.7	1973.1	1660.3	1412.3	1284.3	1263.8	1311.2	1353.9	1364.9	1390.2	1401.3
37.5°	2191.1	2017.4	1646.1	1353.9	1222.7	1218.0	1278.0	1320.7	1323.8	1339.6	1350.7
40°	2227.5	2036.3	1630.3	1304.9	1167.4	1170.6	1232.2	1265.4	1259.1	1270.1	1278.0
42.5°	2263.8	2042.6	1597.1	1263.8	1115.3	1118.5	1165.9	1189.6	1192.7	1216.4	1227.5
45°	2325.4	2060.0	1560.8	1225.9	1067.9	1056.9	1085.3	1116.9	1158.0	1203.8	1216.4
47.5°	2407.6	2096.3	1522.9	1180.1	1022.1	985.8	996.8	1052.1	1094.8	1137.4	1145.3
50°	2491.3	2132.7	1488.1	1124.8	976.3	909.9	914.7	965.2	1000.0	1033.2	1037.9
52.5°	2573.4	2164.3	1458.1	1072.7	924.2	819.9	838.9	891.0	914.7	930.5	935.2
55°	2655.6	2191.1	1431.3	1028.4	864.1	748.8	766.2	815.2	838.9	846.8	849.9
57.5°	2740.9	2222.7	1410.7	990.5	796.2	685.6	696.7	731.4	753.5	763.0	759.9
60°	2812.0	2249.6	1399.7	951.0	728.3	627.2	624.0	655.6	687.2	696.7	693.5
62.5°	2867.3	2267.0	1382.3	900.5	668.2	568.7	552.9	594.0	627.2	633.5	638.2
65°	2897.3	2268.5	1339.6	835.7	606.6	505.5	494.5	535.5	556.1	562.4	562.4
67.5°	2892.6	2243.3	1255.9	748.8	549.8	448.7	439.2	464.5	494.5	499.2	494.5
70°	2794.6	2139.0	1121.6	657.2	481.8	398.1	380.7	406.0	434.4	417.1	409.2
72.5°	2516.6	1868.9	924.2	556.1	406.0	334.9	327.0	352.3	353.9	357.0	349.1
75°	1985.8	1391.8	691.9	432.9	328.6	281.2	279.6	274.9	281.2	293.8	284.4
77.5°	1042.6	695.1	374.4	265.4	238.5	225.9	214.8	213.3	232.2	240.1	230.6
80°	565.6	390.2	214.8	159.6	145.3	146.9	161.1	158.0	178.5	183.3	175.4
82.5°	246.4	184.8	105.8	96.4	96.4	94.8	99.5	110.6	132.7	132.7	105.8
85°	53.7	45.8	41.1	47.4	53.7	53.7	53.7	53.7	37.9	20.5	14.2
87.5°	17.4	17.4	17.4	19.0	20.5	20.5	17.4	12.6	7.9	1.6	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)