

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: P842532

Luminaire Tested: **ARCH4-60-730-U-T2R**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842532
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-60-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 520mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11115 lumens
Efficiency: N/A
Efficacy: 176.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - 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

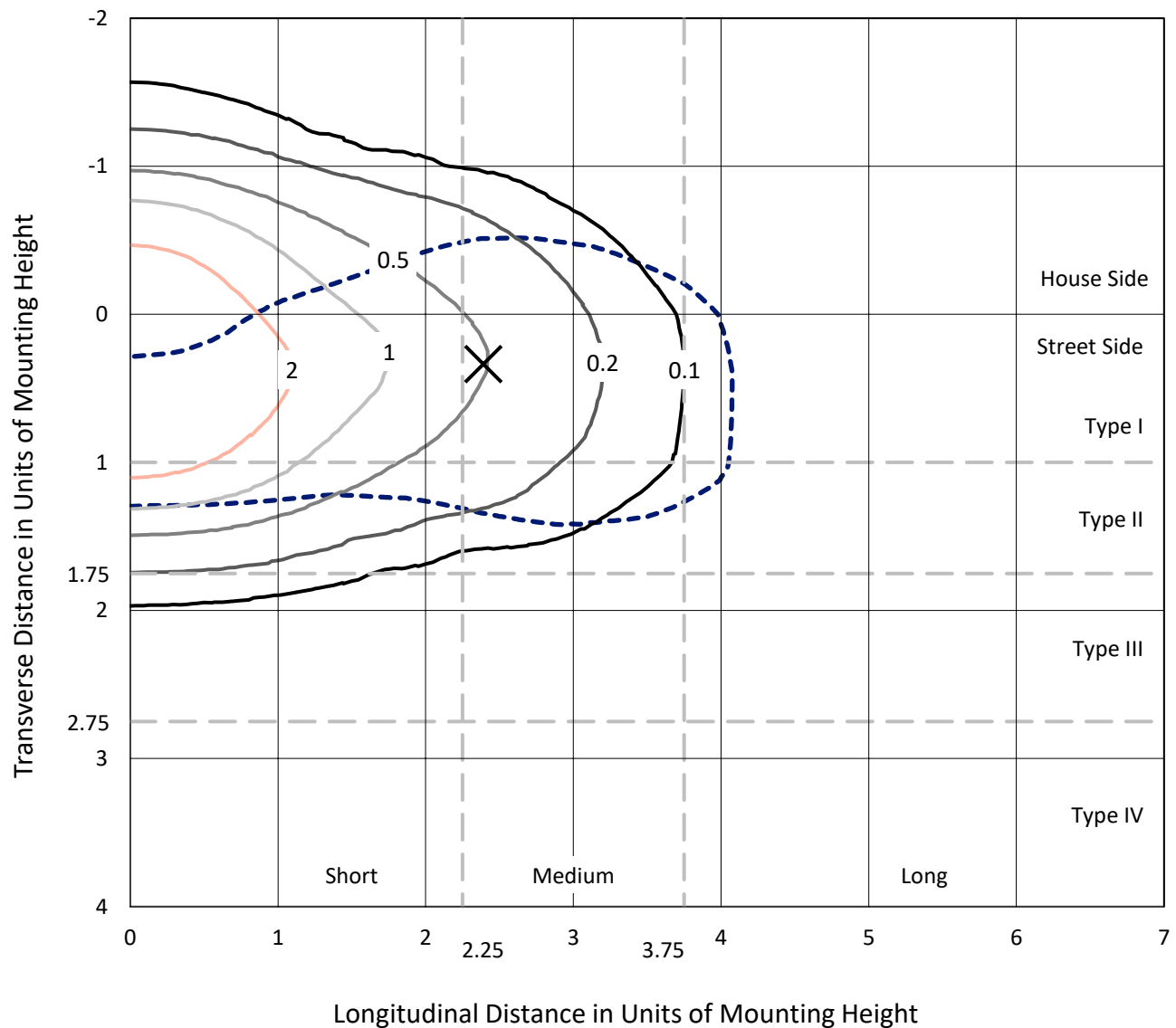


REPORT NUMBER: P842532

CATALOG NUMBER: ARCH4-60-730-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

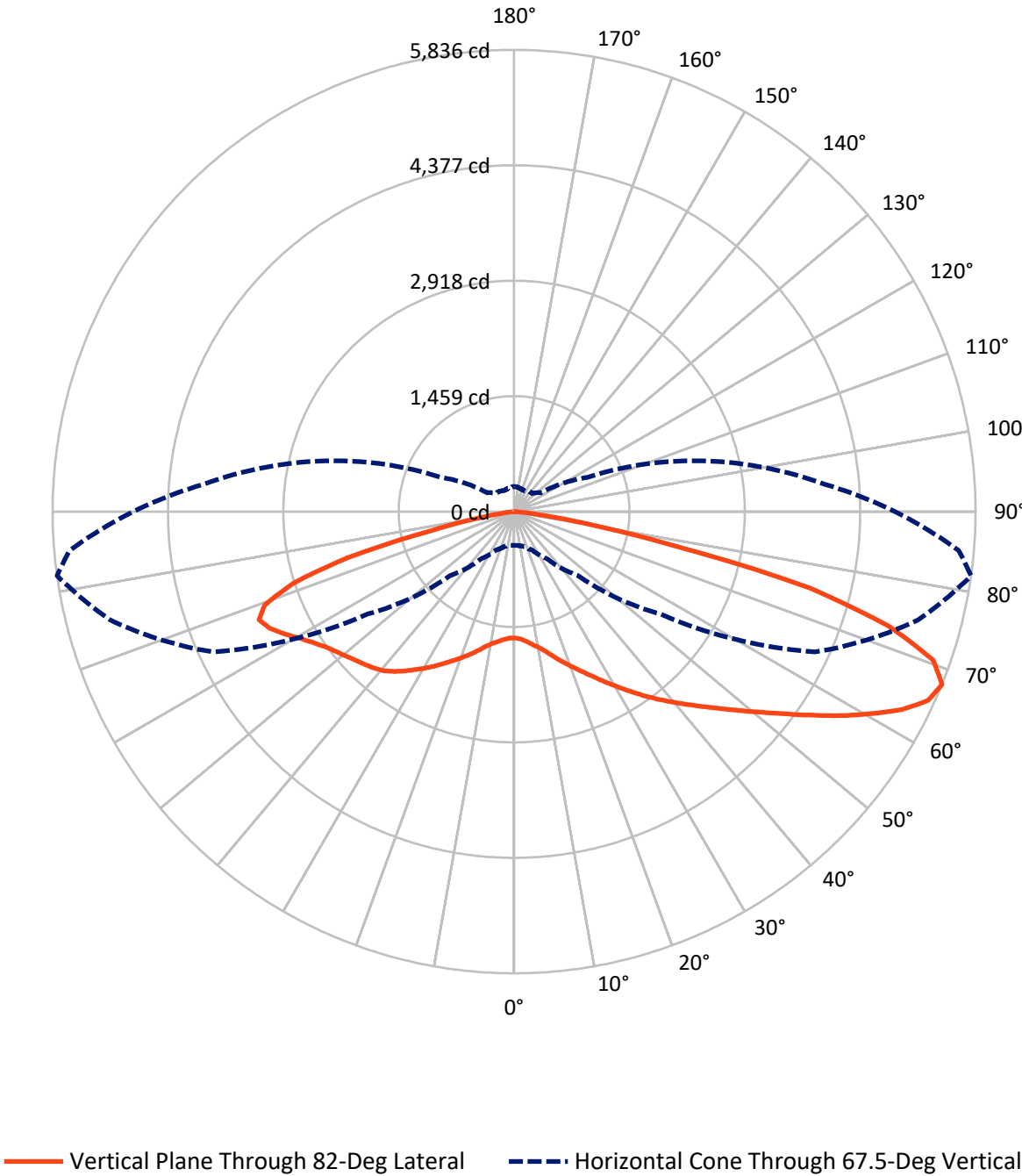
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
Type II - Medium - N/A

REPORT NUMBER: P842532
CATALOG NUMBER: ARCH4-60-730-U-T2R

Luminous Intensity Polar Plot



REPORT NUMBER: P842532

CATALOG NUMBER: ARCH4-60-730-U-T2R

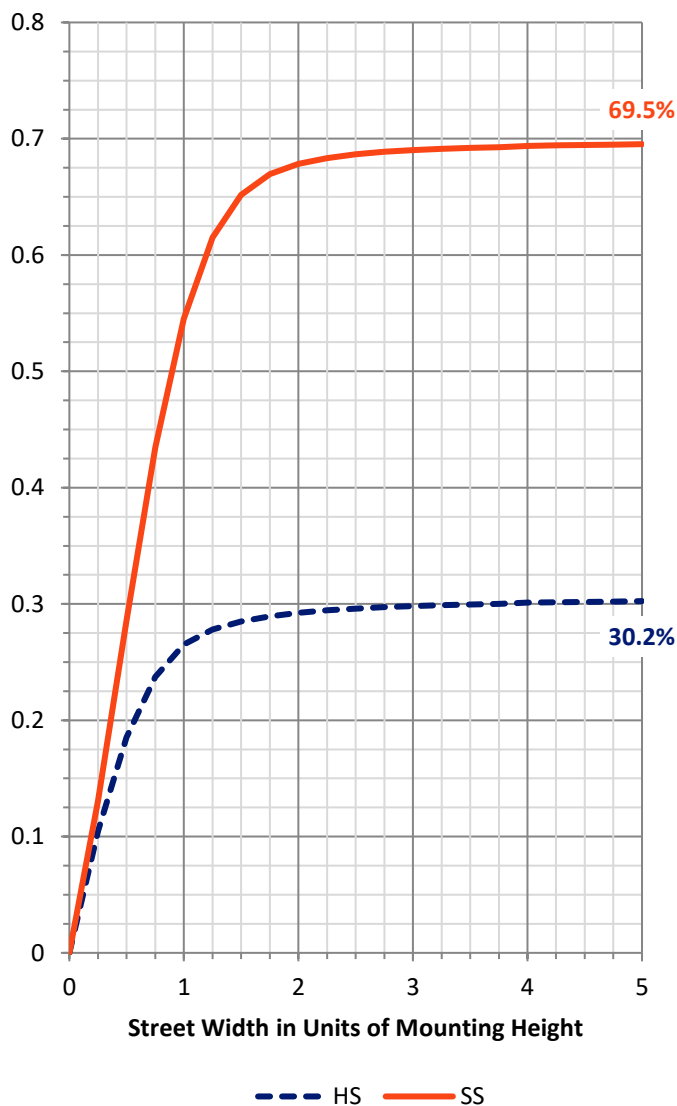
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3385.0	0.0	3385.0
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	7730.0	0.0	7730.0
	% Fixture	69.5	0.0	69.5
Total	Lumens	11115.0	0.0	11115.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.1	1.5
10°-20°	594.8	5.4
20°-30°	1195.4	10.8
30°-40°	1877.7	16.9
40°-50°	2287.5	20.6
50°-60°	2161.4	19.4
60°-70°	1784.8	16.1
70°-80°	971.9	8.7
80°-90°	76.4	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°	11115.0	100.0
0°-180°	11115.0	100.0

Coefficient of Utilization



REPORT NUMBER: P842532

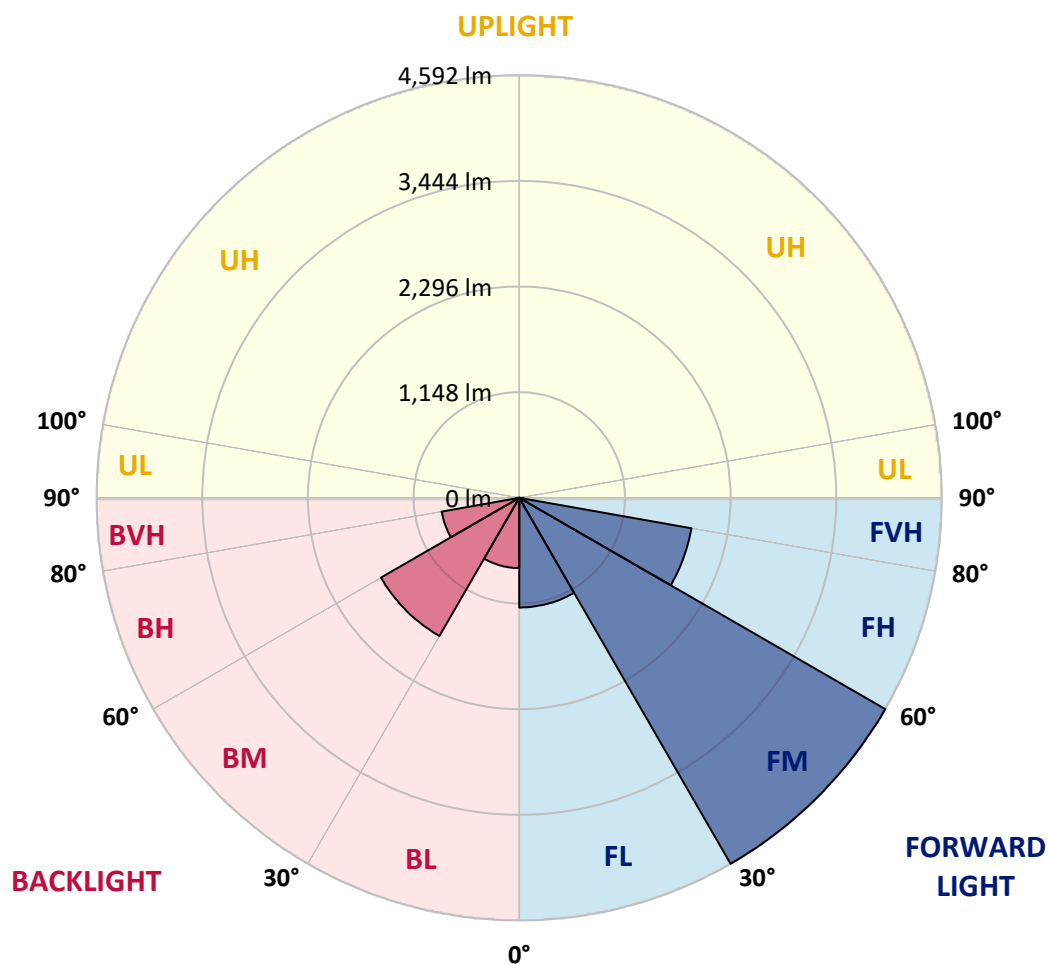
CATALOG NUMBER: ARCH4-60-730-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1191.9	10.7			
FM	(30°-60°)	4592.1	41.3			
FH	(60°-80°)	1900.0	17.1			G2/5000
FVH	(80°-90°)	46.1	0.4			G1/100
BL	(0°-30°)	763.3	6.9	B2/1000		
BM	(30°-60°)	1734.5	15.6	B2/2500		
BH	(60°-80°)	856.8	7.7	B2/1000		G2/1000
BVH	(80°-90°)	30.4	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: P842532

CATALOG NUMBER: ARCH4-60-730-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8
2.5°	1670.4	1670.4	1683.3	1683.3	1672.0	1654.3	1649.4	1630.1	1612.3	1612.3	1613.9
5°	1830.2	1828.6	1838.2	1825.3	1797.9	1762.4	1738.2	1696.2	1660.7	1649.4	1647.8
7.5°	2025.5	2023.8	2028.7	2007.7	1956.1	1898.0	1849.5	1781.8	1723.7	1699.5	1693.0
10°	2243.3	2241.7	2236.9	2201.4	2132.0	2041.6	1969.0	1875.4	1788.2	1749.5	1741.4
12.5°	2493.5	2490.3	2479.0	2427.3	2332.1	2215.9	2111.0	1990.0	1873.8	1820.5	1802.7
15°	2772.7	2767.9	2746.9	2683.9	2556.4	2409.6	2274.0	2119.1	1977.0	1907.6	1883.4
17.5°	3066.4	3066.4	3034.2	2940.6	2798.5	2616.2	2448.3	2251.4	2085.2	1999.6	1970.6
20°	3365.0	3363.4	3323.1	3210.1	3042.2	2832.4	2619.4	2403.1	2196.5	2093.2	2057.7
22.5°	3679.7	3676.5	3626.5	3497.4	3297.2	3060.0	2811.4	2553.2	2319.2	2194.9	2149.7
25°	4041.2	4036.4	3975.1	3816.9	3579.7	3311.8	3027.7	2729.1	2459.6	2307.9	2254.6
27.5°	4425.4	4418.9	4346.3	4162.3	3902.4	3579.7	3266.6	2932.5	2614.5	2433.8	2374.1
30°	4767.5	4762.7	4683.6	4494.8	4196.2	3846.0	3494.1	3135.8	2777.5	2567.7	2493.5
32.5°	5025.7	5025.7	4954.7	4769.1	4459.2	4101.0	3723.3	3327.9	2947.0	2711.4	2624.2
35°	5182.3	5187.1	5125.8	4977.3	4685.2	4341.4	3960.5	3553.8	3127.8	2864.7	2771.1
37.5°	5204.9	5221.0	5185.5	5085.4	4841.7	4541.6	4193.0	3771.7	3315.0	3019.6	2914.7
40°	5100.0	5111.3	5112.9	5074.1	4906.3	4685.2	4397.9	4002.5	3513.5	3182.6	3061.6
42.5°	4890.2	4898.2	4912.8	4924.1	4859.5	4748.1	4554.5	4217.2	3724.9	3348.9	3206.8
45°	4619.0	4617.4	4641.6	4690.0	4686.8	4712.6	4641.6	4412.4	3944.4	3537.7	3368.2
47.5°	4213.9	4205.9	4291.4	4401.1	4456.0	4577.1	4643.2	4565.8	4183.3	3745.9	3552.2
50°	3579.7	3571.6	3758.8	4017.0	4178.4	4362.4	4554.5	4657.8	4433.4	3979.9	3752.4
52.5°	2808.2	2800.1	3037.4	3489.3	3841.1	4109.0	4375.3	4678.7	4670.7	4241.4	3978.3
55°	2088.4	2081.9	2312.7	2801.8	3371.5	3815.3	4155.8	4623.9	4893.4	4541.6	4252.7
57.5°	1471.9	1468.7	1668.8	2073.9	2767.9	3457.0	3944.4	4517.3	5098.4	4867.6	4562.5
60°	1032.9	1028.1	1173.3	1486.4	2093.2	2916.3	3734.6	4375.3	5251.7	5188.7	4891.8
62.5°	695.6	692.4	795.7	1057.1	1486.4	2245.0	3416.7	4280.1	5338.8	5511.5	5224.2
65°	527.8	526.1	572.9	716.6	1052.3	1612.3	2911.5	4268.8	5350.1	5753.6	5506.7
67.5°	426.1	427.7	453.5	535.8	727.9	1145.9	2257.9	4197.8	5290.4	5835.9	5643.9
70°	348.6	348.6	359.9	414.8	537.4	773.1	1576.8	3875.0	5124.2	5621.3	5480.9
72.5°	266.3	267.9	303.4	335.7	405.1	542.3	1010.3	3206.8	4732.0	4956.3	4849.8
75°	211.4	209.8	230.8	276.0	314.7	387.3	619.7	2299.8	4026.7	3873.4	3805.6
77.5°	151.7	150.1	166.2	205.0	238.9	274.4	369.6	1160.4	2190.1	2012.6	1962.5
80°	103.3	100.1	114.6	142.0	158.2	161.4	180.8	445.4	955.4	900.6	889.3
82.5°	53.3	53.3	61.3	80.7	82.3	83.9	80.7	143.6	316.3	295.3	282.4
85°	21.0	21.0	22.6	27.4	27.4	29.1	29.1	37.1	33.9	32.3	30.7
87.5°	1.6	1.6	3.2	3.2	4.8	4.8	4.8	6.5	8.1	8.1	8.1
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: P842532

CATALOG NUMBER: ARCH4-60-730-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8	1597.8
2.5°	1610.7	1604.2	1583.3	1578.4	1575.2	1570.3	1572.0	1560.7	1555.8	1557.4	1551.0
5°	1639.7	1628.4	1602.6	1591.3	1588.1	1583.3	1588.1	1580.0	1572.0	1575.2	1572.0
7.5°	1680.1	1663.9	1631.7	1620.4	1618.8	1613.9	1620.4	1613.9	1607.5	1610.7	1604.2
10°	1722.0	1701.1	1665.6	1654.3	1654.3	1652.6	1659.1	1649.4	1643.0	1644.6	1641.4
12.5°	1783.4	1755.9	1717.2	1707.5	1702.7	1707.5	1709.1	1696.2	1684.9	1686.5	1681.7
15°	1857.6	1827.0	1785.0	1770.5	1767.2	1765.6	1759.2	1743.0	1728.5	1726.9	1722.0
17.5°	1938.3	1899.6	1849.5	1835.0	1820.5	1815.7	1799.5	1778.5	1755.9	1755.9	1749.5
20°	2015.8	1972.2	1912.5	1891.5	1870.5	1851.2	1823.7	1789.8	1760.8	1755.9	1749.5
22.5°	2099.7	2048.1	1978.7	1948.0	1910.9	1872.1	1825.3	1780.1	1743.0	1735.0	1730.1
25°	2193.3	2128.8	2046.4	2001.3	1941.5	1881.8	1812.4	1754.3	1710.7	1697.8	1694.6
27.5°	2296.6	2219.1	2119.1	2052.9	1965.7	1872.1	1783.4	1714.0	1660.7	1644.6	1639.7
30°	2401.5	2309.5	2185.2	2088.4	1965.7	1841.5	1730.1	1649.4	1588.1	1565.5	1562.3
32.5°	2506.4	2403.1	2245.0	2107.8	1946.4	1789.8	1660.7	1565.5	1496.1	1468.7	1475.1
35°	2632.3	2506.4	2299.8	2115.8	1914.1	1726.9	1581.6	1470.3	1399.3	1375.1	1379.9
37.5°	2763.0	2609.7	2343.4	2109.4	1868.9	1655.9	1492.9	1384.7	1296.0	1254.0	1258.9
40°	2876.0	2703.3	2374.1	2086.8	1810.8	1575.2	1405.7	1263.7	1141.0	1100.7	1095.8
42.5°	2982.5	2772.7	2390.2	2052.9	1744.6	1481.6	1281.4	1099.1	976.4	926.4	928.0
45°	3093.9	2840.5	2383.8	2007.7	1662.3	1371.8	1121.7	937.7	829.6	784.4	786.0
47.5°	3221.4	2913.1	2377.3	1959.3	1562.3	1229.8	968.3	795.7	702.1	669.8	666.5
50°	3356.9	2993.8	2369.2	1899.6	1450.9	1071.6	816.6	663.3	584.2	563.3	558.4
52.5°	3510.3	3081.0	2364.4	1828.6	1317.0	903.8	681.1	547.1	493.9	479.3	477.7
55°	3694.3	3182.6	2370.8	1743.0	1155.6	745.6	566.5	471.3	435.8	427.7	426.1
57.5°	3918.6	3313.4	2390.2	1643.0	986.1	608.4	482.6	424.5	401.9	395.4	395.4
60°	4162.3	3461.8	2425.7	1530.0	816.6	501.9	427.7	387.3	377.7	385.7	385.7
62.5°	4425.4	3636.1	2488.7	1392.8	658.5	424.5	384.1	356.7	350.2	366.4	368.0
65°	4669.1	3805.6	2529.0	1228.2	522.9	368.0	350.2	326.0	329.2	345.4	343.8
67.5°	4819.1	3946.0	2472.5	1021.6	414.8	326.0	314.7	293.7	301.8	314.7	316.3
70°	4727.2	3866.9	2193.3	771.5	324.4	284.0	276.0	263.1	269.5	285.7	292.1
72.5°	4276.9	3463.5	1705.9	521.3	261.5	238.9	242.1	235.6	243.7	258.2	272.8
75°	3471.5	2617.8	1144.3	334.1	206.6	203.4	208.2	203.4	206.6	221.1	229.2
77.5°	1812.4	1276.6	569.7	208.2	153.3	158.2	166.2	167.8	177.5	180.8	184.0
80°	845.7	574.6	237.2	116.2	101.7	111.4	127.5	129.1	132.3	137.2	138.8
82.5°	276.0	172.7	109.7	62.9	58.1	62.9	82.3	98.4	100.1	109.7	109.7
85°	29.1	17.8	24.2	25.8	22.6	27.4	37.1	35.5	16.1	9.7	9.7
87.5°	8.1	6.5	8.1	8.1	6.5	6.5	4.8	1.6	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)