

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: P799635

Luminaire Tested: **ARCH2-40-730-U-T2R**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2403-329-1)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-40-730-U-T2R
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 335mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

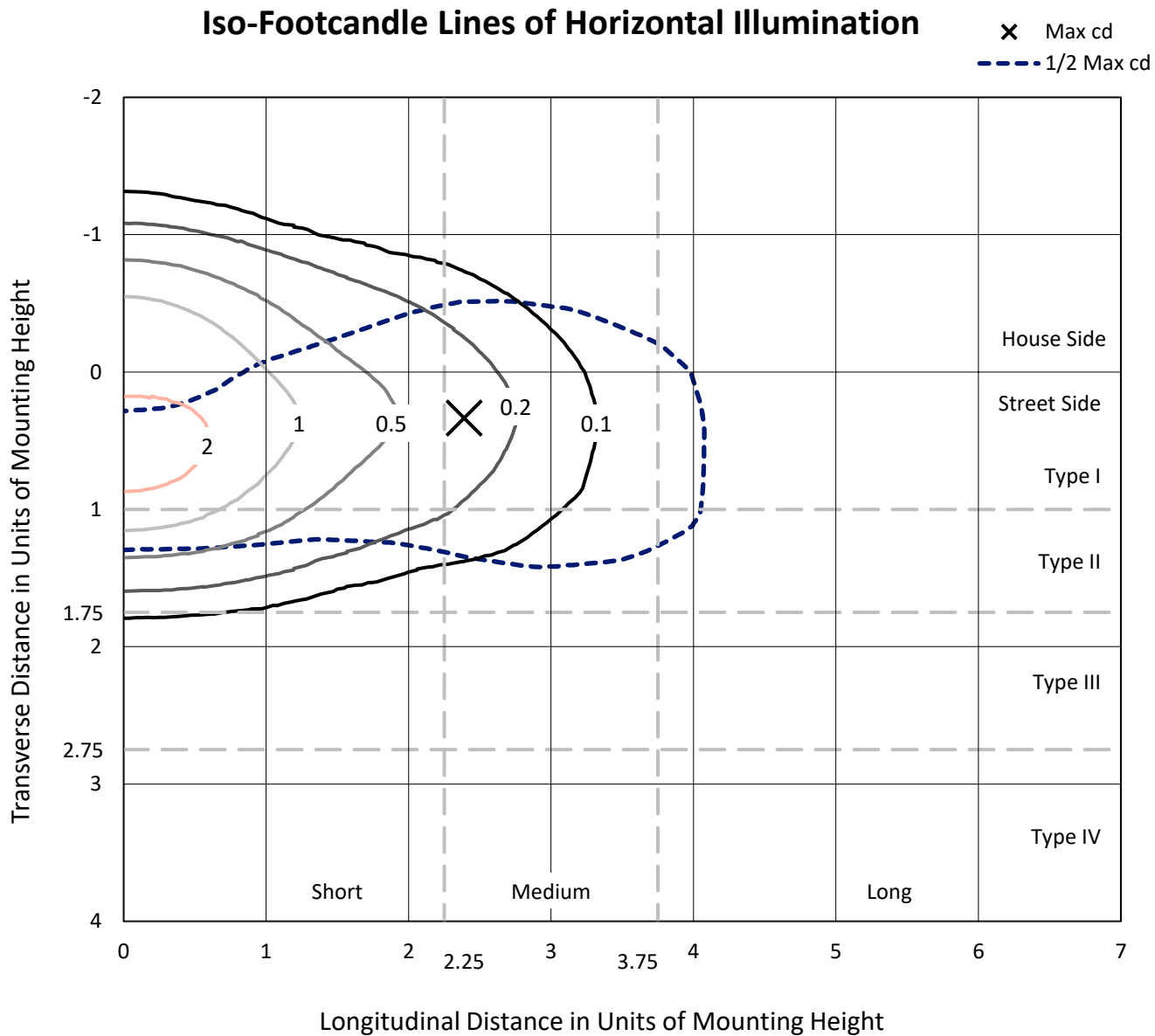
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6464 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G1

Input Watts (W): 44.1
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

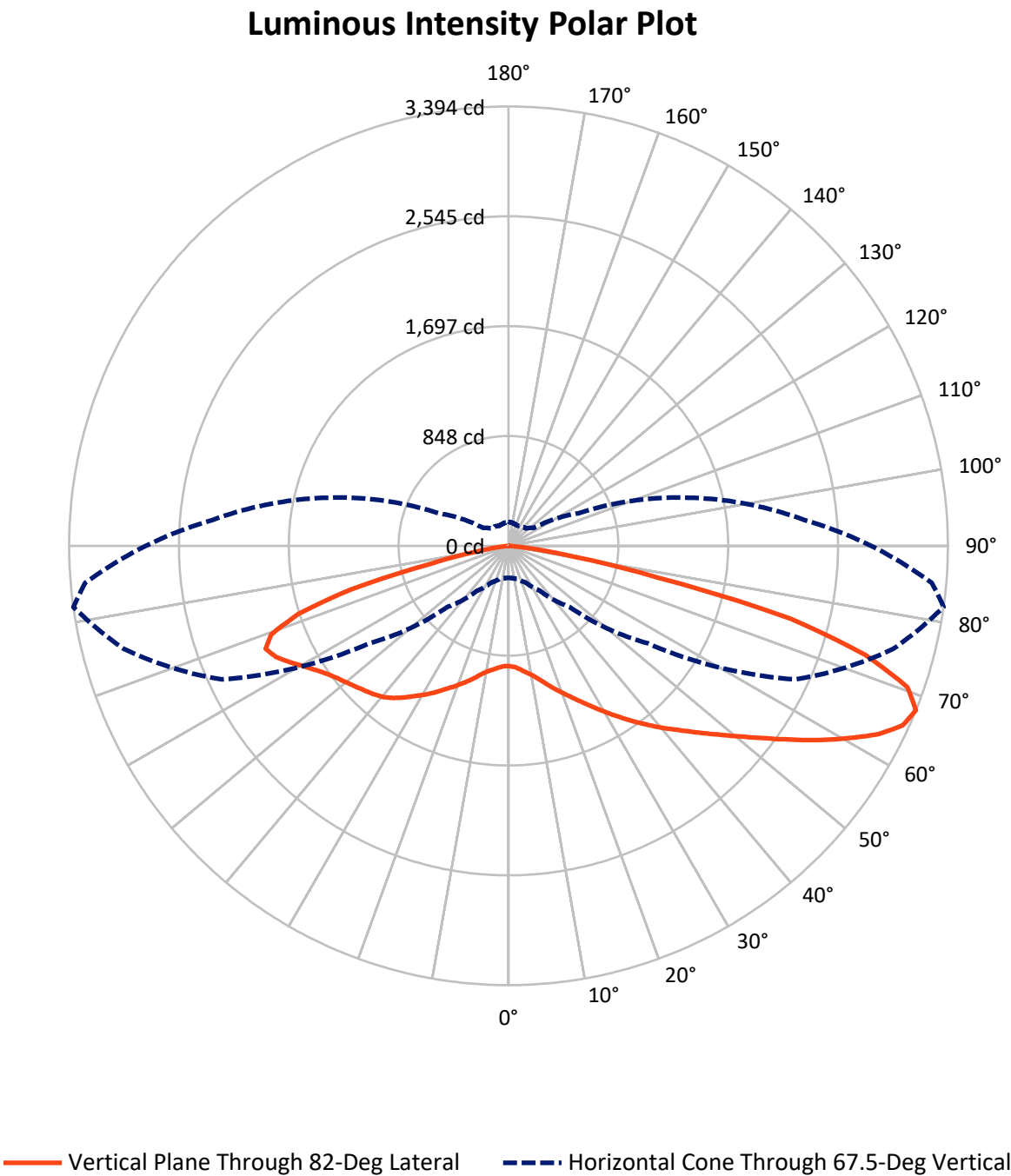


REPORT NUMBER: P799635
CATALOG NUMBER: ARCH2-40-730-U-T2R



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
Type II - Medium - N/A

REPORT NUMBER: P799635
CATALOG NUMBER: ARCH2-40-730-U-T2R



REPORT NUMBER: P799635

CATALOG NUMBER: ARCH2-40-730-U-T2R

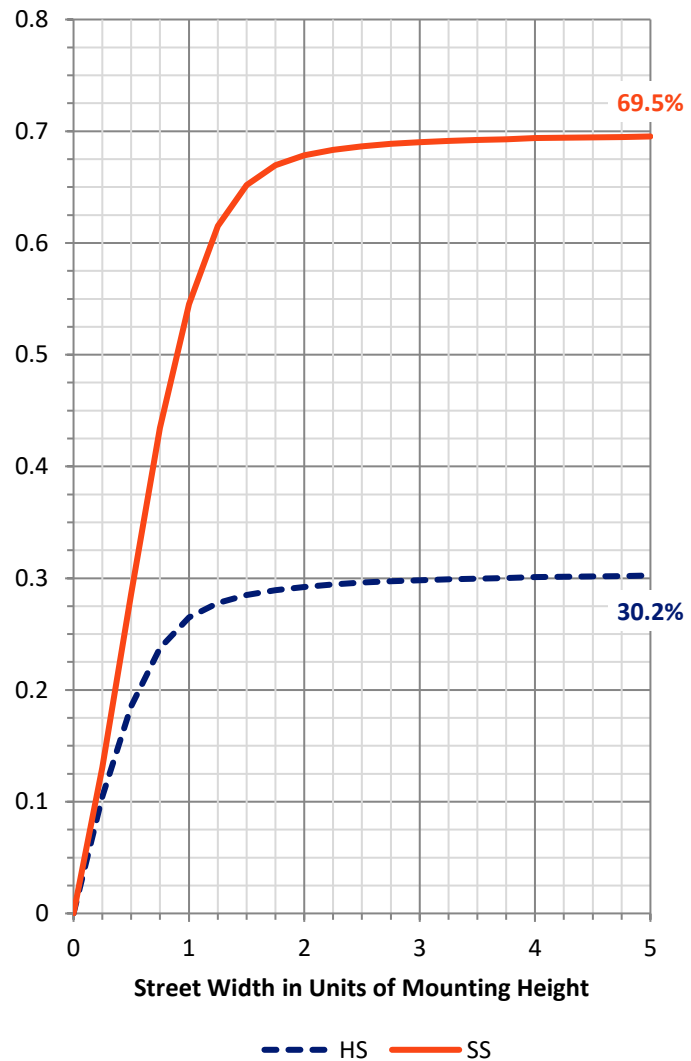
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1968.6	0.0	1968.6
	% Fixture	30.5	0.0	30.5
Street Side	Lumens	4495.4	0.0	4495.4
	% Fixture	69.5	0.0	69.5
Total	Lumens	6464.0	0.0	6464.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	1.5
10°-20°	345.9	5.4
20°-30°	695.2	10.8
30°-40°	1092.0	16.9
40°-50°	1330.3	20.6
50°-60°	1257.0	19.4
60°-70°	1038.0	16.1
70°-80°	565.2	8.7
80°-90°	44.4	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°	6464.0	100.0
0°-180°	6464.0	100.0

Coefficient of Utilization



REPORT NUMBER: P799635

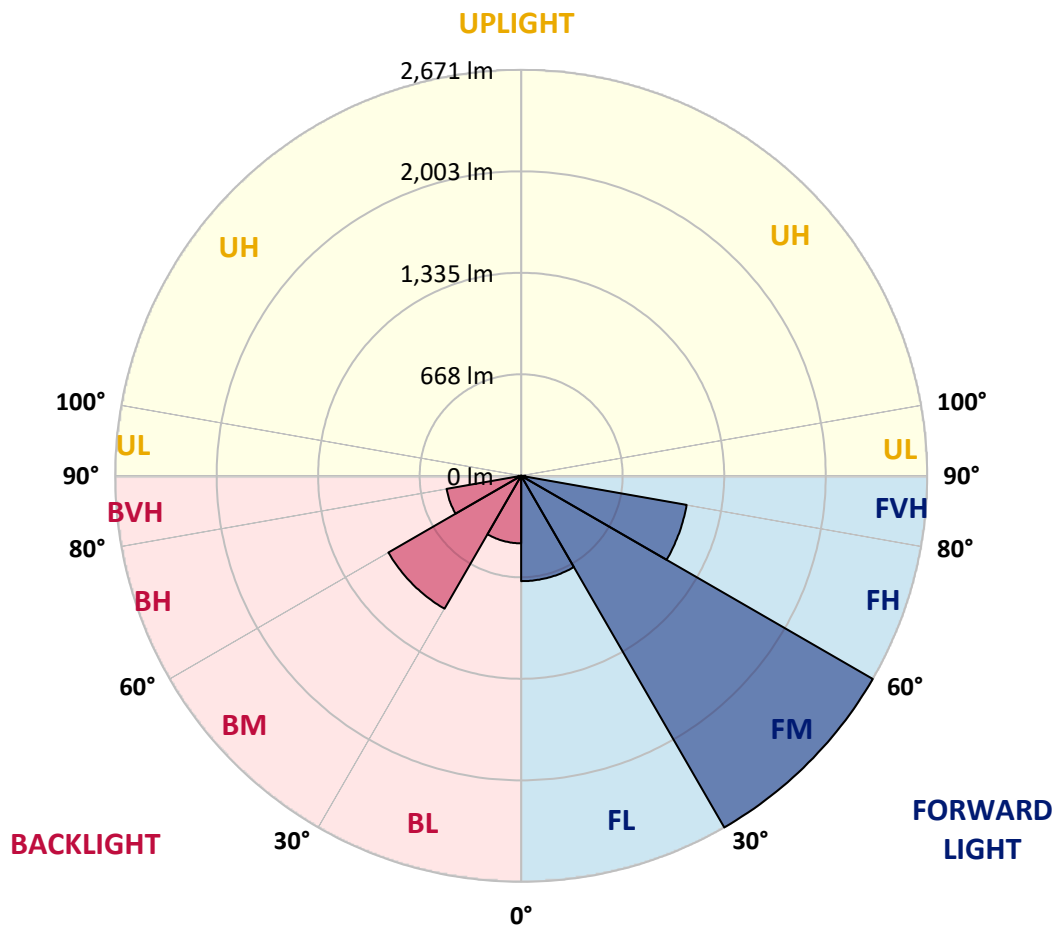
CATALOG NUMBER: ARCH2-40-730-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	693.2	10.7			
FM	(30°-60°)	2670.6	41.3			
FH	(60°-80°)	1104.9	17.1			G1/1800
FVH	(80°-90°)	26.8	0.4			G1/100
BL	(0°-30°)	443.9	6.9	B1/500		
BM	(30°-60°)	1008.7	15.6	B2/2500		
BH	(60°-80°)	498.2	7.7	B1/500		G1/500
BVH	(80°-90°)	17.7	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-G1

Type II Medium



REPORT NUMBER: P799635

CATALOG NUMBER: ARCH2-40-730-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2
2.5°	971.4	971.4	978.9	978.9	972.4	962.0	959.2	948.0	937.6	937.6	938.6
5°	1064.4	1063.4	1069.0	1061.5	1045.6	1024.9	1010.9	986.5	965.8	959.2	958.3
7.5°	1177.9	1177.0	1179.8	1167.6	1137.6	1103.8	1075.6	1036.2	1002.4	988.3	984.6
10°	1304.6	1303.7	1300.9	1280.2	1239.9	1187.3	1145.1	1090.6	1039.9	1017.4	1012.7
12.5°	1450.1	1448.2	1441.7	1411.6	1356.3	1288.7	1227.7	1157.3	1089.7	1058.7	1048.4
15°	1612.5	1609.7	1597.5	1560.9	1486.7	1401.3	1322.5	1232.4	1149.8	1109.4	1095.3
17.5°	1783.3	1783.3	1764.5	1710.1	1627.5	1521.4	1423.8	1309.3	1212.6	1162.9	1146.0
20°	1956.9	1956.0	1932.5	1866.8	1769.2	1647.2	1523.3	1397.5	1277.4	1217.3	1196.7
22.5°	2140.0	2138.1	2109.0	2033.9	1917.5	1779.6	1635.0	1484.8	1348.7	1276.5	1250.2
25°	2350.2	2347.4	2311.7	2219.7	2081.8	1926.0	1760.8	1587.1	1430.4	1342.2	1311.2
27.5°	2573.6	2569.8	2527.6	2420.6	2269.5	2081.8	1899.7	1705.4	1520.5	1415.4	1380.7
30°	2772.6	2769.8	2723.8	2614.0	2440.3	2236.6	2032.0	1823.7	1615.3	1493.3	1450.1
32.5°	2922.7	2922.7	2881.4	2773.5	2593.3	2384.9	2165.3	1935.4	1713.9	1576.8	1526.1
35°	3013.8	3016.6	2980.9	2894.6	2724.7	2524.8	2303.3	2066.8	1819.0	1666.0	1611.5
37.5°	3026.9	3036.3	3015.7	2957.5	2815.7	2641.2	2438.4	2193.5	1927.8	1756.1	1695.1
40°	2965.9	2972.5	2973.4	2950.9	2853.3	2724.7	2557.6	2327.7	2043.3	1850.9	1780.5
42.5°	2843.9	2848.6	2857.0	2863.6	2826.1	2761.3	2648.7	2452.5	2166.2	1947.6	1865.0
45°	2686.2	2685.3	2699.4	2727.5	2725.6	2740.7	2699.4	2566.1	2293.9	2057.4	1958.8
47.5°	2450.6	2445.9	2495.7	2559.5	2591.4	2661.8	2700.3	2655.2	2432.8	2178.4	2065.8
50°	2081.8	2077.1	2186.0	2336.1	2430.0	2537.0	2648.7	2708.7	2578.3	2314.5	2182.2
52.5°	1633.1	1628.4	1766.4	2029.2	2233.8	2389.6	2544.5	2721.0	2716.3	2466.6	2313.6
55°	1214.5	1210.8	1345.0	1629.4	1960.7	2218.8	2416.8	2689.0	2845.8	2641.2	2473.2
57.5°	856.0	854.1	970.5	1206.1	1609.7	2010.4	2293.9	2627.1	2965.0	2830.8	2653.4
60°	600.7	597.9	682.3	864.4	1217.3	1696.0	2171.9	2544.5	3054.1	3017.5	2844.8
62.5°	404.5	402.7	462.7	614.8	864.4	1305.6	1987.0	2489.1	3104.8	3205.3	3038.2
65°	306.9	306.0	333.2	416.7	612.0	937.6	1693.2	2482.6	3111.4	3346.0	3202.4
67.5°	247.8	248.7	263.7	311.6	423.3	666.4	1313.1	2441.3	3076.7	3393.9	3282.2
70°	202.7	202.7	209.3	241.2	312.5	449.6	917.0	2253.5	2980.0	3269.1	3187.4
72.5°	154.9	155.8	176.5	195.2	235.6	315.4	587.6	1865.0	2751.9	2882.4	2820.4
75°	123.0	122.0	134.2	160.5	183.0	225.3	360.4	1337.5	2341.8	2252.6	2213.2
77.5°	88.2	87.3	96.7	119.2	138.9	159.6	214.9	674.8	1273.7	1170.4	1141.3
80°	60.1	58.2	66.6	82.6	92.0	93.9	105.1	259.0	555.6	523.7	517.2
82.5°	31.0	31.0	35.7	46.9	47.9	48.8	46.9	83.5	184.0	171.8	164.3
85°	12.2	12.2	13.1	16.0	16.0	16.9	16.9	21.6	19.7	18.8	17.8
87.5°	0.9	0.9	1.9	1.9	2.8	2.8	2.8	3.8	4.7	4.7	4.7
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: P799635

CATALOG NUMBER: ARCH2-40-730-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2	929.2
2.5°	936.7	933.0	920.7	917.9	916.1	913.2	914.2	907.6	904.8	905.7	902.0
5°	953.6	947.0	932.0	925.4	923.6	920.7	923.6	918.9	914.2	916.1	914.2
7.5°	977.1	967.7	948.9	942.3	941.4	938.6	942.3	938.6	934.8	936.7	933.0
10°	1001.5	989.3	968.6	962.0	962.0	961.1	964.9	959.2	955.5	956.4	954.5
12.5°	1037.1	1021.2	998.7	993.0	990.2	993.0	994.0	986.5	979.9	980.8	978.0
15°	1080.3	1062.5	1038.1	1029.6	1027.7	1026.8	1023.1	1013.7	1005.2	1004.3	1001.5
17.5°	1127.2	1104.7	1075.6	1067.2	1058.7	1055.9	1046.5	1034.3	1021.2	1021.2	1017.4
20°	1172.3	1146.9	1112.2	1100.0	1087.8	1076.6	1060.6	1040.9	1024.0	1021.2	1017.4
22.5°	1221.1	1191.1	1150.7	1132.9	1111.3	1088.8	1061.5	1035.3	1013.7	1009.0	1006.2
25°	1275.5	1238.0	1190.1	1163.8	1129.1	1094.4	1054.0	1020.2	994.9	987.4	985.5
27.5°	1335.6	1290.6	1232.4	1193.9	1143.2	1088.8	1037.1	996.8	965.8	956.4	953.6
30°	1396.6	1343.1	1270.8	1214.5	1143.2	1070.9	1006.2	959.2	923.6	910.4	908.5
32.5°	1457.6	1397.5	1305.6	1225.8	1131.9	1040.9	965.8	910.4	870.1	854.1	857.9
35°	1530.8	1457.6	1337.5	1230.5	1113.2	1004.3	919.8	855.0	813.8	799.7	802.5
37.5°	1606.9	1517.7	1362.8	1226.7	1086.9	963.0	868.2	805.3	753.7	729.3	732.1
40°	1672.6	1572.1	1380.7	1213.6	1053.1	916.1	817.5	734.9	663.6	640.1	637.3
42.5°	1734.5	1612.5	1390.0	1193.9	1014.6	861.6	745.2	639.2	567.8	538.7	539.7
45°	1799.3	1651.9	1386.3	1167.6	966.7	797.8	652.3	545.3	482.4	456.2	457.1
47.5°	1873.4	1694.1	1382.5	1139.4	908.5	715.2	563.1	462.7	408.3	389.5	387.6
50°	1952.3	1741.1	1377.8	1104.7	843.8	623.2	474.9	385.8	339.8	327.6	324.7
52.5°	2041.4	1791.8	1375.0	1063.4	765.9	525.6	396.1	318.2	287.2	278.8	277.8
55°	2148.4	1850.9	1378.8	1013.7	672.0	433.6	329.4	274.1	253.4	248.7	247.8
57.5°	2278.9	1926.9	1390.0	955.5	573.5	353.8	280.6	246.8	233.7	230.0	230.0
60°	2420.6	2013.3	1410.7	889.8	474.9	291.9	248.7	225.3	219.6	224.3	224.3
62.5°	2573.6	2114.6	1447.3	810.0	382.9	246.8	223.4	207.4	203.7	213.1	214.0
65°	2715.3	2213.2	1470.8	714.3	304.1	214.0	203.7	189.6	191.5	200.9	199.9
67.5°	2802.6	2294.8	1437.9	594.1	241.2	189.6	183.0	170.8	175.5	183.0	184.0
70°	2749.1	2248.8	1275.5	448.6	188.7	165.2	160.5	153.0	156.7	166.1	169.9
72.5°	2487.2	2014.2	992.1	303.2	152.1	138.9	140.8	137.0	141.7	150.2	158.6
75°	2018.9	1522.4	665.5	194.3	120.1	118.3	121.1	118.3	120.1	128.6	133.3
77.5°	1054.0	742.4	331.3	121.1	89.2	92.0	96.7	97.6	103.2	105.1	107.0
80°	491.8	334.1	138.0	67.6	59.1	64.8	74.1	75.1	77.0	79.8	80.7
82.5°	160.5	100.4	63.8	36.6	33.8	36.6	47.9	57.3	58.2	63.8	63.8
85°	16.9	10.3	14.1	15.0	13.1	16.0	21.6	20.6	9.4	5.6	5.6
87.5°	4.7	3.8	4.7	4.7	3.8	3.8	2.8	0.9	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)