

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: P798997

Luminaire Tested: **ARCH1-50-730-U-T2U**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P798997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH1-50-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1470mA LIGHTSQUARE WITH 10 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

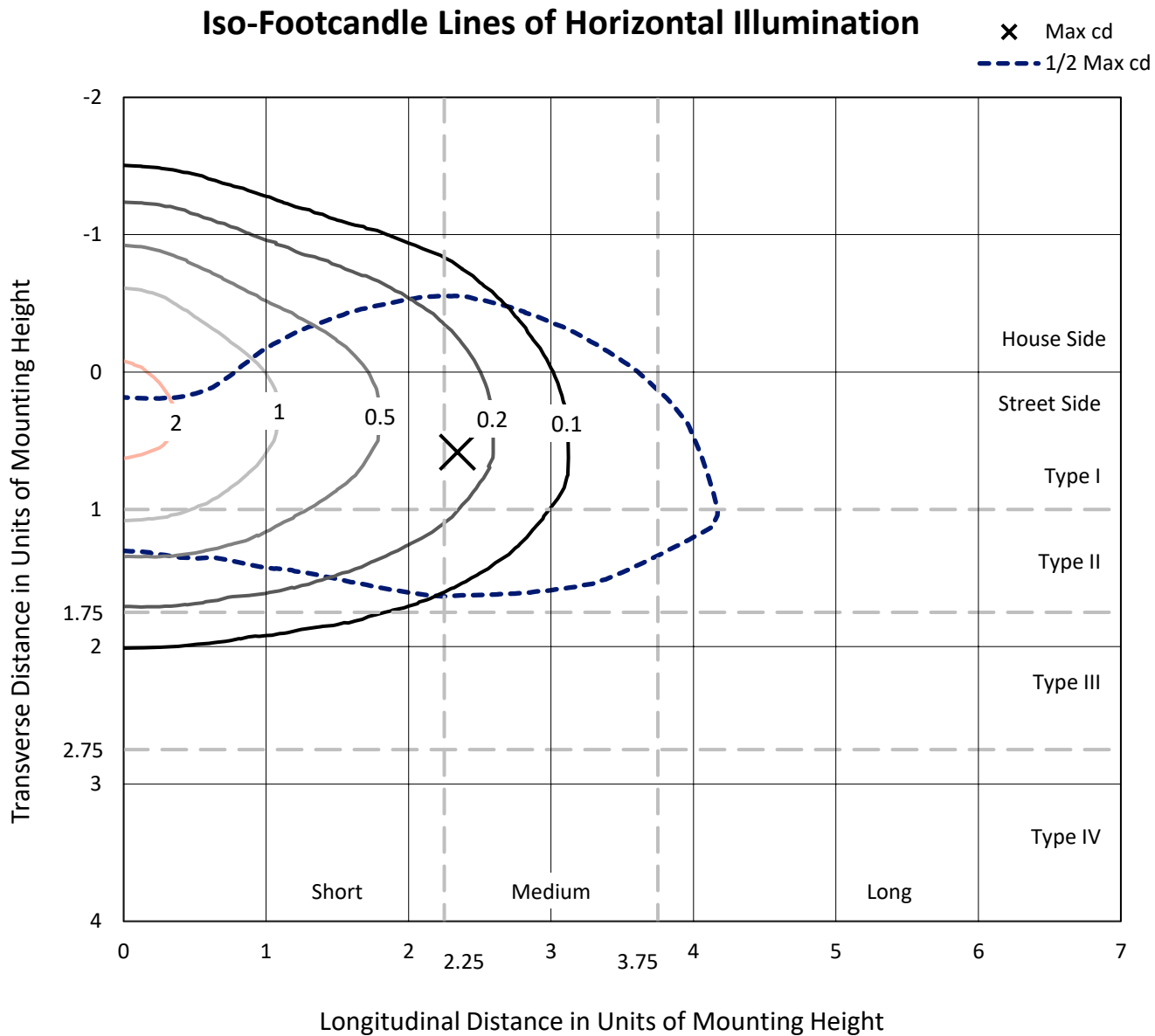
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6502 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 53
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: P798997
CATALOG NUMBER: ARCH1-50-730-U-T2U

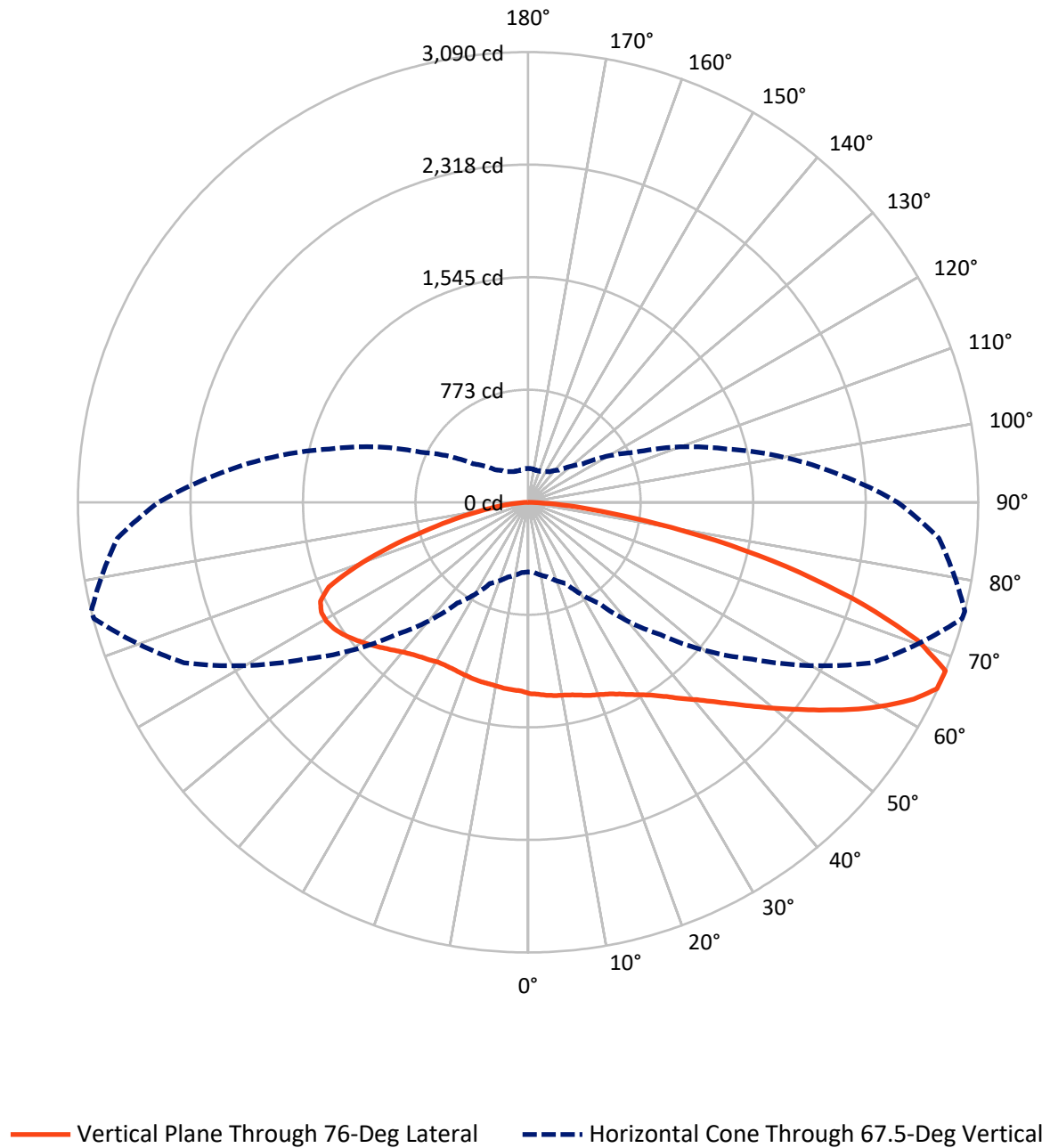


Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
Type II - Medium - N/A

REPORT NUMBER: P798997

CATALOG NUMBER: ARCH1-50-730-U-T2U

Luminous Intensity Polar Plot



REPORT NUMBER: P798997

CATALOG NUMBER: ARCH1-50-730-U-T2U

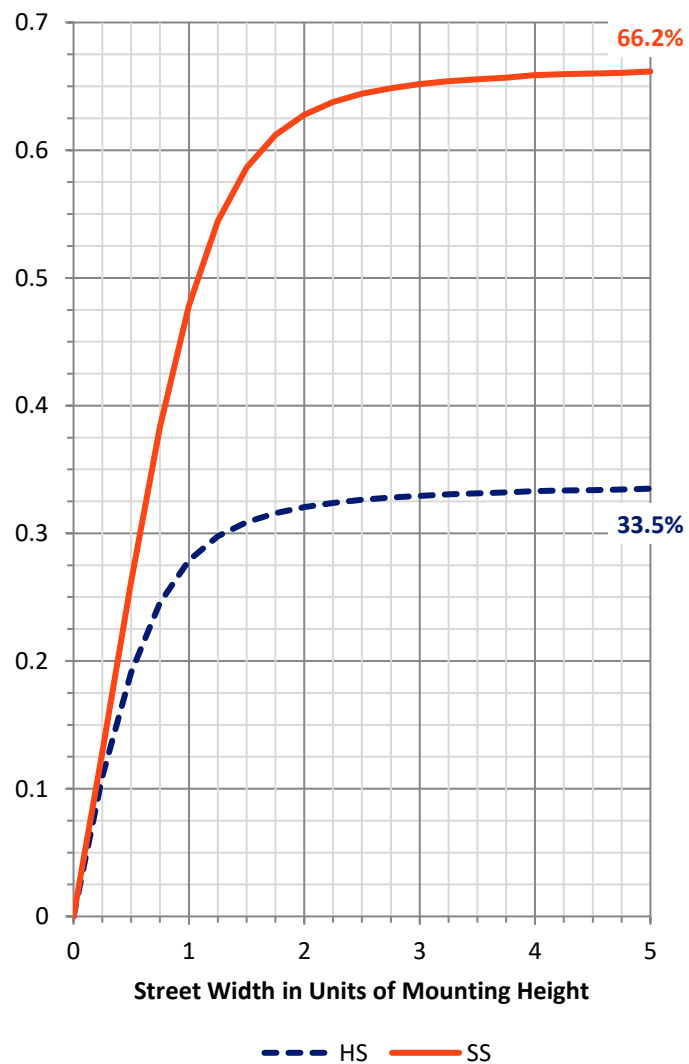
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2197.1	0.0	2197.1
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	4304.9	0.0	4304.9
	% Fixture	66.2	0.0	66.2
Total	Lumens	6502.0	0.0	6502.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.6	1.9
10°-20°	387.2	6.0
20°-30°	657.8	10.1
30°-40°	936.0	14.4
40°-50°	1182.2	18.2
50°-60°	1279.9	19.7
60°-70°	1190.4	18.3
70°-80°	639.4	9.8
80°-90°	102.5	1.6
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°	6502.0	100.0
0°-180°	6502.0	100.0

Coefficient of Utilization



REPORT NUMBER: P798997

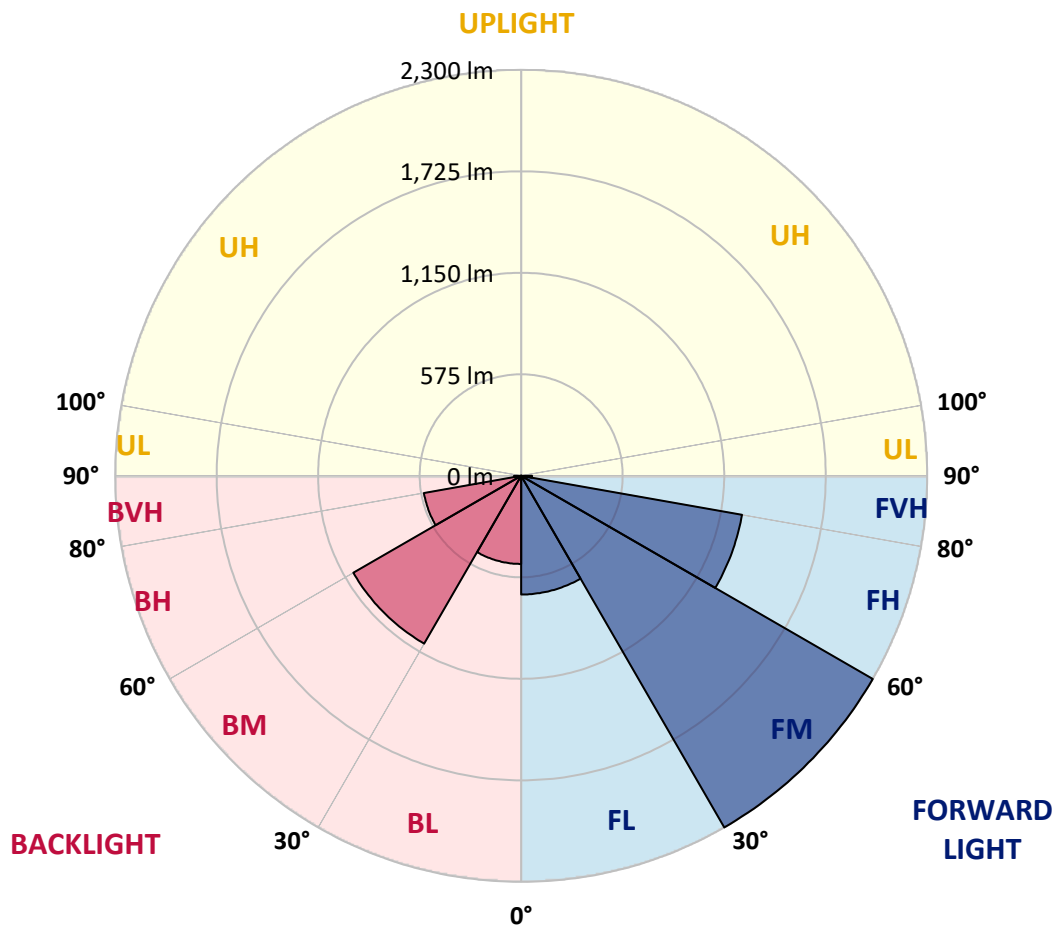
CATALOG NUMBER: ARCH1-50-730-U-T2U

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	672.4	10.3			
FM	(30°-60°)	2300.2	35.4			
FH	(60°-80°)	1270.4	19.5			G1/1800
FVH	(80°-90°)	62.0	1.0			G1/100
BL	(0°-30°)	499.3	7.7	B1/500		
BM	(30°-60°)	1097.9	16.9	B2/2500		
BH	(60°-80°)	559.4	8.6	B2/1000		G2/1000
BVH	(80°-90°)	40.5	0.6			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: P798997

CATALOG NUMBER: ARCH1-50-730-U-T2U

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1313.4	1313.4	1313.4	1313.4	1313.4	1313.4	1313.4	1313.4	1313.4	1313.4	1313.4
2.5°	1353.2	1350.8	1341.2	1342.4	1342.4	1341.2	1326.7	1320.6	1320.6	1319.4	1306.1
5°	1401.5	1397.9	1387.0	1384.6	1379.8	1373.7	1350.8	1337.5	1331.5	1330.3	1312.2
7.5°	1458.2	1453.4	1440.1	1432.9	1420.8	1405.1	1376.2	1355.6	1341.2	1339.9	1314.6
10°	1515.0	1510.2	1494.5	1481.2	1464.3	1438.9	1401.5	1371.3	1348.4	1346.0	1315.8
12.5°	1582.6	1577.8	1558.4	1541.5	1516.2	1482.4	1432.9	1391.9	1360.5	1356.8	1319.4
15°	1653.8	1646.6	1627.3	1607.9	1576.6	1533.1	1473.9	1419.6	1379.8	1373.7	1330.3
17.5°	1713.0	1703.3	1687.6	1668.3	1633.3	1582.6	1515.0	1447.4	1397.9	1393.1	1341.2
20°	1763.7	1756.4	1739.5	1721.4	1684.0	1628.5	1553.6	1475.1	1414.8	1408.8	1349.6
22.5°	1811.9	1802.3	1792.6	1779.4	1738.3	1676.7	1598.3	1508.9	1436.5	1429.3	1360.5
25°	1867.5	1856.6	1853.0	1845.7	1797.5	1734.7	1652.6	1551.2	1466.7	1458.2	1379.8
27.5°	1936.3	1924.2	1917.0	1917.0	1859.0	1793.8	1710.5	1600.7	1501.7	1494.5	1403.9
30°	2008.7	1994.2	1983.4	1983.4	1918.2	1853.0	1767.3	1650.2	1541.5	1533.1	1435.3
32.5°	2072.7	2058.2	2046.1	2044.9	1977.3	1912.1	1826.4	1704.5	1589.8	1579.0	1473.9
35°	2122.2	2108.9	2098.0	2100.5	2036.5	1972.5	1892.8	1776.9	1650.2	1638.1	1524.6
37.5°	2152.4	2147.5	2141.5	2150.0	2090.8	2030.4	1961.6	1847.0	1719.0	1708.1	1587.4
40°	2168.1	2164.4	2188.6	2199.4	2136.7	2082.4	2030.4	1919.4	1793.8	1781.8	1659.8
42.5°	2191.0	2221.2	2230.8	2228.4	2170.5	2122.2	2093.2	1997.8	1882.0	1871.1	1746.8
45°	2108.9	2101.7	2154.8	2183.8	2172.9	2147.5	2152.4	2092.0	1984.6	1973.7	1847.0
47.5°	1999.1	1989.4	2019.6	2090.8	2133.1	2157.2	2205.5	2189.8	2102.9	2093.2	1964.0
50°	1767.3	1780.6	1892.8	1988.2	2071.5	2154.8	2250.1	2294.8	2233.2	2223.6	2089.6
52.5°	1510.2	1523.4	1640.5	1860.2	1996.6	2136.7	2282.7	2399.8	2374.5	2363.6	2223.6
55°	1323.0	1352.0	1484.8	1644.2	1890.4	2079.9	2302.1	2507.3	2526.6	2516.9	2369.7
57.5°	1137.1	1158.9	1259.1	1400.3	1745.6	1980.9	2300.8	2607.5	2685.9	2676.3	2518.1
60°	918.6	946.4	1026.1	1178.2	1552.4	1862.6	2267.0	2685.9	2839.2	2832.0	2661.8
62.5°	769.0	777.4	834.1	965.7	1303.7	1713.0	2191.0	2728.2	2978.1	2973.2	2791.0
65°	619.3	620.5	672.4	782.2	1063.5	1527.1	2061.8	2712.5	3083.1	3085.5	2883.9
67.5°	478.0	484.1	531.2	614.4	845.0	1285.6	1877.1	2606.3	3084.3	3090.3	2830.8
70°	330.8	335.6	406.8	487.7	653.1	1024.9	1627.3	2325.0	2830.8	2835.6	2537.4
72.5°	233.0	235.4	311.4	389.9	510.6	772.6	1227.7	1923.0	2413.1	2416.7	2134.3
75°	173.8	176.2	219.7	295.8	391.1	534.8	839.0	1472.7	1927.8	1927.8	1685.2
77.5°	123.1	124.3	142.4	204.0	260.7	360.9	504.6	964.5	1414.8	1417.2	1227.7
80°	83.3	84.5	93.0	137.6	163.0	195.6	274.0	505.8	892.1	895.7	779.8
82.5°	43.5	45.9	51.9	70.0	82.1	108.6	141.2	257.1	493.7	503.4	468.4
85°	16.9	16.9	19.3	22.9	30.2	42.3	65.2	97.8	223.3	230.6	206.4
87.5°	6.0	6.0	7.2	7.2	8.5	9.7	10.9	14.5	25.4	25.4	24.1
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: P798997

CATALOG NUMBER: ARCH1-50-730-U-T2U

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1313.4	1313.4	1313.4	1313.4	1313.4	1313.4	1313.4	1313.4	1313.4	1313.4	1313.4
2.5°	1301.3	1301.3	1295.3	1297.7	1296.5	1294.1	1291.7	1295.3	1291.7	1283.2	1282.0
5°	1303.7	1301.3	1291.7	1290.5	1286.8	1282.0	1276.0	1278.4	1272.3	1265.1	1263.9
7.5°	1304.9	1300.1	1286.8	1282.0	1274.8	1265.1	1255.4	1255.4	1247.0	1239.8	1238.5
10°	1302.5	1296.5	1278.4	1268.7	1255.4	1241.0	1227.7	1224.1	1214.4	1206.0	1206.0
12.5°	1303.7	1295.3	1272.3	1256.7	1238.5	1220.4	1203.5	1198.7	1190.3	1181.8	1180.6
15°	1311.0	1298.9	1269.9	1249.4	1222.9	1202.3	1184.2	1180.6	1173.4	1167.3	1167.3
17.5°	1318.2	1302.5	1266.3	1237.3	1204.7	1181.8	1164.9	1164.9	1160.1	1156.5	1156.5
20°	1321.8	1303.7	1259.1	1220.4	1183.0	1158.9	1143.2	1145.6	1144.4	1143.2	1143.2
22.5°	1330.3	1306.1	1253.0	1204.7	1160.1	1134.7	1120.2	1123.9	1122.7	1122.7	1123.9
25°	1343.6	1312.2	1248.2	1190.3	1138.4	1110.6	1094.9	1097.3	1097.3	1097.3	1097.3
27.5°	1361.7	1324.3	1247.0	1177.0	1116.6	1085.2	1065.9	1065.9	1061.1	1062.3	1063.5
30°	1389.4	1347.2	1249.4	1164.9	1093.7	1053.9	1030.9	1027.3	1026.1	1028.5	1029.7
32.5°	1423.2	1378.6	1263.9	1156.5	1069.5	1018.8	989.9	988.7	985.0	985.0	985.0
35°	1465.5	1408.8	1277.2	1155.3	1045.4	981.4	950.0	946.4	938.0	934.3	934.3
37.5°	1519.8	1455.8	1292.9	1146.8	1024.9	945.2	907.8	895.7	886.1	884.8	884.8
40°	1586.2	1508.9	1315.8	1137.1	1003.1	907.8	858.3	837.8	839.0	843.8	843.8
42.5°	1664.7	1574.1	1344.8	1132.3	971.8	869.2	800.3	776.2	784.7	789.5	790.7
45°	1756.4	1651.4	1377.4	1126.3	942.8	825.7	738.8	708.6	712.2	713.4	714.6
47.5°	1862.6	1737.1	1411.2	1121.5	910.2	771.4	671.2	631.3	630.1	622.9	625.3
50°	1973.7	1827.6	1446.2	1113.0	870.4	707.4	600.0	552.9	543.2	532.4	533.6
52.5°	2092.0	1920.6	1478.8	1099.7	820.9	642.2	532.4	481.7	462.3	450.3	452.7
55°	2222.4	2016.0	1510.2	1079.2	769.0	577.0	472.0	420.1	395.9	386.3	387.5
57.5°	2341.9	2107.7	1533.1	1053.9	712.2	517.9	418.9	368.2	352.5	351.3	352.5
60°	2457.8	2185.0	1542.7	1018.8	654.3	463.5	369.4	330.8	319.9	325.9	327.1
62.5°	2555.6	2234.5	1537.9	971.8	595.1	411.6	329.6	301.8	294.5	306.6	307.8
65°	2612.3	2250.1	1504.1	904.2	531.2	360.9	292.1	262.0	258.3	265.6	269.2
67.5°	2537.4	2152.4	1412.4	811.2	459.9	313.9	255.9	231.8	225.7	231.8	231.8
70°	2248.9	1865.1	1195.1	663.9	381.5	268.0	222.1	205.2	200.4	205.2	204.0
72.5°	1873.5	1551.2	941.6	517.9	300.6	225.7	193.1	177.5	172.6	167.8	165.4
75°	1453.4	1178.2	683.3	380.3	226.9	181.1	161.8	147.3	135.2	140.0	137.6
77.5°	1064.7	826.9	484.1	263.2	163.0	140.0	126.8	115.9	107.4	117.1	115.9
80°	685.7	534.8	323.5	176.2	112.3	97.8	93.0	86.9	95.4	124.3	126.8
82.5°	418.9	339.2	193.1	114.7	73.6	65.2	60.4	60.4	97.8	107.4	108.6
85°	187.1	179.9	105.0	59.2	41.0	37.4	33.8	43.5	39.8	29.0	30.2
87.5°	30.2	31.4	22.9	20.5	15.7	15.7	12.1	8.5	6.0	3.6	3.6
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)