

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: FAIL-SAFE

Report Number: P837726

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-2STD-27-120-EDD**

Issue Date: 5/21/2024

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-79-08
Report Number: P837726
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-12-4-INS-ASY2R-LD4-2STD-27-120-EDD
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

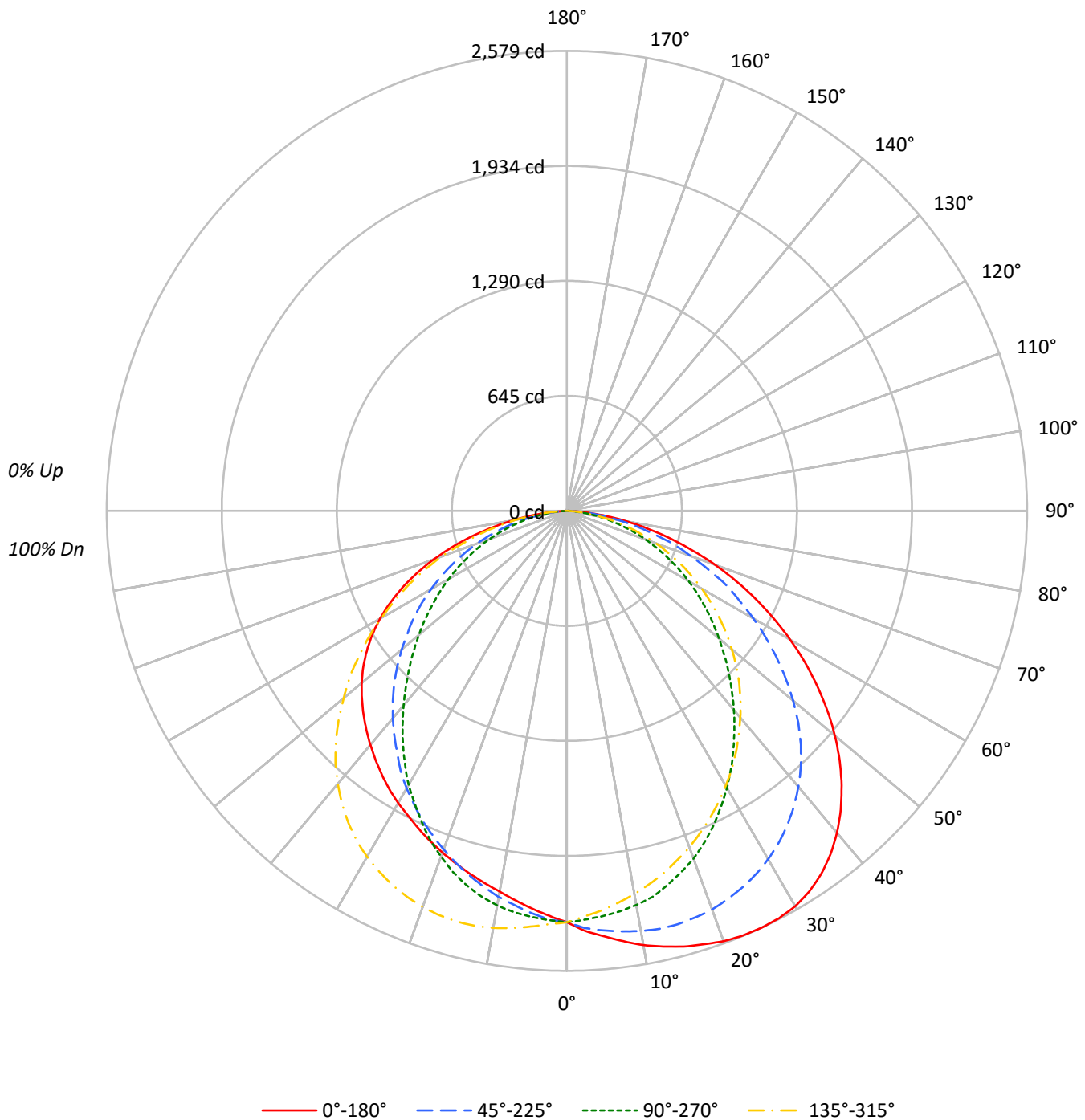
Lumens per Lamp: N/A
Luminaire Lumens: 6765.5 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
Input Voltage (V): 120
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: 25 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70		
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59		
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6205	6205	6205	6205
5°	6467	6161	6045	6171
10°	6755	6129	5922	6138
15°	7045	6051	5864	6053
20°	7352	5941	5838	5907
25°	7657	5775	5837	5716
30°	7953	5574	5877	5512
35°	8164	5345	5935	5260
40°	8272	5115	6018	5000
45°	8289	4882	6135	4759
50°	8210	4659	6285	4535
55°	8040	4452	6425	4328
60°	7788	4236	6511	4125
65°	7439	3987	6477	3894
70°	6949	3695	6246	3627
75°	6253	3294	5733	3277
80°	5301	2758	4818	2800
85°	3687	1828	3057	1877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.9	3.2
10°-20°	634.0	9.4
20°-30°	971.6	14.4
30°-40°	1181.4	17.5
40°-50°	1228.2	18.2
50°-60°	1109.4	16.4
60°-70°	843.4	12.5
70°-80°	470.2	7.0
80°-90°	108.3	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°-30°	1824.6	27.0
0°-40°	3006.0	44.4
0°-60°	5343.6	79.0
0°-90°	6765.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6765.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2306	2306	2306	2306	2306	
5°	2394	2281	2238	2284	2394	231
15°	2529	2172	2105	2173	2529	717
25°	2579	1945	1966	1925	2579	1191
35°	2485	1627	1807	1601	2485	1552
45°	2178	1283	1612	1251	2178	1677
55°	1714	949	1370	922	1714	1530
65°	1168	626	1017	612	1168	1155
75°	601	317	551	315	601	639
85°	119	59	99	61	119	150
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2306.0	2306.0	2306.0	2306.0	2306.0	2306.0	2306.0	2306.0	2306.0	2306.0	2306.0
2.5°	2357.1	2322.7	2323.2	2353.3	2330.2	2341.5	2309.2	2321.6	2317.8	2320.5	2294.2
5°	2394.2	2357.1	2356.6	2382.4	2356.6	2361.4	2320.5	2328.6	2316.8	2309.2	2280.7
7.5°	2433.5	2396.4	2392.6	2415.2	2381.3	2377.5	2332.4	2332.4	2310.8	2292.0	2265.1
10°	2472.2	2434.0	2429.2	2446.4	2404.4	2392.1	2337.2	2328.6	2300.1	2272.1	2243.1
12.5°	2501.3	2462.5	2458.8	2469.5	2422.2	2399.6	2337.2	2320.5	2278.6	2239.3	2216.7
15°	2528.7	2488.9	2478.7	2484.0	2429.7	2399.6	2329.7	2303.8	2250.1	2198.4	2172.1
17.5°	2548.1	2509.9	2499.6	2499.1	2433.5	2390.4	2313.5	2278.0	2213.5	2151.1	2124.7
20°	2567.4	2529.2	2516.3	2506.6	2432.4	2378.1	2289.9	2242.0	2166.7	2096.8	2074.7
22.5°	2577.1	2537.8	2523.8	2509.3	2425.4	2355.5	2260.8	2200.0	2114.0	2030.6	2012.3
25°	2578.7	2538.4	2523.3	2502.3	2411.4	2328.6	2223.2	2149.5	2053.2	1960.7	1945.1
27.5°	2574.4	2530.3	2515.2	2490.0	2390.4	2295.8	2178.5	2091.9	1988.6	1886.4	1869.8
30°	2559.4	2514.7	2500.2	2467.4	2360.9	2255.4	2129.6	2027.9	1917.1	1808.4	1793.9
32.5°	2529.2	2485.7	2473.8	2441.0	2328.6	2208.6	2072.5	1959.0	1838.0	1734.2	1712.7
35°	2485.1	2441.6	2434.0	2399.6	2283.4	2152.7	2010.2	1883.7	1754.1	1648.1	1627.2
37.5°	2427.6	2391.0	2379.7	2345.8	2230.2	2089.2	1938.6	1802.0	1668.6	1554.5	1541.6
40°	2354.9	2320.5	2311.9	2281.8	2168.3	2018.8	1861.2	1717.5	1580.4	1474.4	1456.1
42.5°	2272.1	2239.8	2235.0	2203.8	2091.9	1940.8	1777.2	1629.9	1488.4	1386.2	1367.9
45°	2178.0	2146.8	2145.7	2116.1	2008.5	1854.2	1689.0	1541.1	1398.6	1292.6	1282.9
47.5°	2074.2	2046.2	2046.2	2018.8	1915.5	1758.9	1598.1	1448.6	1308.2	1214.6	1197.4
50°	1961.2	1934.8	1926.8	1913.3	1812.7	1655.1	1502.4	1358.2	1218.9	1129.6	1112.9
52.5°	1840.7	1818.1	1823.5	1798.8	1701.4	1547.0	1405.5	1256.5	1129.1	1047.8	1031.2
55°	1713.8	1681.5	1686.3	1677.2	1585.2	1435.7	1296.9	1172.6	1040.8	964.5	948.9
57.5°	1582.0	1540.0	1557.2	1551.9	1461.5	1321.6	1197.4	1077.4	953.2	882.7	867.6
60°	1447.0	1406.6	1424.4	1419.5	1334.5	1207.6	1094.6	983.3	866.0	802.0	787.0
62.5°	1308.2	1271.1	1287.2	1283.4	1205.4	1090.9	992.4	890.2	778.3	720.8	706.8
65°	1168.3	1132.8	1147.4	1144.7	1072.6	985.4	887.5	793.9	690.1	640.1	626.1
67.5°	1025.2	992.4	1005.9	1005.9	939.7	856.3	782.1	696.6	603.5	560.5	547.6
70°	883.2	852.6	864.4	863.3	807.4	739.6	675.6	599.2	515.9	480.3	469.6
72.5°	740.2	713.3	724.0	722.9	676.1	632.6	569.1	502.9	430.3	401.8	392.1
75°	601.4	576.1	586.3	585.2	547.0	506.2	463.7	408.8	346.4	326.5	316.8
77.5°	469.1	443.2	451.8	451.8	423.9	394.3	360.4	317.9	273.8	252.3	245.3
80°	342.1	329.7	325.4	326.0	307.1	287.8	270.6	229.7	197.4	182.9	178.0
82.5°	224.8	214.6	210.3	211.4	200.6	188.8	178.0	149.5	128.0	119.4	116.7
85°	119.4	111.9	108.1	110.8	108.7	102.2	96.8	77.5	64.0	60.8	59.2
87.5°	37.7	32.8	30.1	39.8	33.9	30.1	29.0	23.1	17.8	17.8	17.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2306.0	2306.0	2306.0	2306.0	2306.0	2306.0	2306.0	2306.0	2306.0	2306.0	2306.0
2.5°	2302.8	2302.8	2281.8	2277.0	2274.8	2277.5	2256.5	2252.7	2282.9	2272.6	2249.5
5°	2284.5	2283.4	2253.8	2248.4	2248.4	2245.2	2221.5	2216.2	2246.3	2237.7	2212.4
7.5°	2261.9	2258.7	2223.7	2219.9	2214.6	2212.4	2186.0	2182.3	2208.1	2202.7	2179.1
10°	2234.5	2231.2	2189.8	2187.1	2181.2	2176.9	2152.2	2149.5	2175.8	2167.2	2148.4
12.5°	2198.4	2192.5	2150.0	2147.3	2142.5	2140.9	2116.7	2115.6	2144.6	2136.0	2116.1
15°	2151.1	2146.2	2098.9	2100.0	2100.5	2100.5	2081.2	2080.1	2108.6	2104.8	2083.3
17.5°	2098.9	2092.4	2047.3	2050.5	2054.3	2058.6	2043.5	2046.2	2076.3	2071.5	2052.1
20°	2039.7	2033.3	1989.2	1998.3	2006.4	2015.0	2005.3	2012.8	2040.8	2038.7	2024.1
22.5°	1973.6	1967.1	1926.2	1940.2	1953.7	1969.8	1965.5	1974.1	2003.7	2003.2	1990.2
25°	1892.9	1894.5	1858.5	1875.7	1898.3	1920.9	1922.5	1936.5	1969.3	1966.0	1954.2
27.5°	1817.6	1819.7	1781.5	1810.6	1840.7	1869.8	1876.8	1896.1	1929.5	1926.8	1916.6
30°	1738.5	1741.2	1704.1	1743.9	1780.5	1816.0	1831.0	1857.4	1891.3	1891.3	1880.5
32.5°	1656.2	1661.1	1622.3	1675.6	1718.1	1759.5	1785.8	1813.3	1852.0	1850.9	1841.8
35°	1571.8	1577.1	1541.6	1609.4	1651.9	1702.5	1735.3	1771.9	1806.3	1806.8	1799.8
37.5°	1485.7	1492.1	1459.9	1534.1	1582.5	1642.2	1684.2	1720.8	1758.9	1761.1	1754.6
40°	1400.2	1407.2	1379.2	1450.7	1512.1	1578.8	1627.2	1670.2	1712.2	1713.2	1708.9
42.5°	1314.6	1322.2	1301.2	1371.1	1440.5	1512.1	1569.1	1618.0	1661.1	1663.7	1658.9
45°	1231.3	1237.7	1222.7	1299.0	1365.7	1443.7	1509.4	1564.8	1608.3	1612.1	1610.5
47.5°	1148.4	1154.3	1140.9	1210.8	1287.7	1370.6	1446.4	1507.7	1554.0	1558.3	1557.2
50°	1067.2	1072.0	1057.5	1130.7	1207.1	1295.3	1374.3	1445.4	1497.0	1501.3	1500.8
52.5°	986.5	991.4	979.0	1055.9	1125.3	1218.4	1304.4	1381.3	1432.4	1438.9	1440.0
55°	908.5	910.7	901.0	974.7	1041.9	1139.3	1238.3	1313.0	1364.1	1369.5	1372.7
57.5°	830.5	831.1	823.0	893.5	958.0	1057.5	1161.3	1239.9	1288.3	1293.7	1298.5
60°	753.1	752.5	743.4	811.7	873.6	972.0	1080.1	1158.1	1204.9	1209.7	1216.2
62.5°	676.1	674.5	666.5	729.4	787.5	884.9	993.5	1068.8	1113.5	1116.7	1125.3
65°	599.8	598.2	590.6	648.7	701.4	794.5	901.0	972.5	1012.9	1017.2	1015.6
67.5°	524.5	521.2	515.3	567.5	615.4	701.4	803.6	871.9	905.3	909.1	919.3
70°	449.2	445.4	431.9	487.3	529.3	606.2	701.4	762.2	790.2	793.9	792.3
72.5°	374.9	371.2	356.6	407.7	443.2	510.5	595.5	646.0	670.2	673.5	673.5
75°	302.8	300.7	291.5	330.3	359.9	414.7	486.8	528.8	547.6	551.4	550.3
77.5°	233.5	231.8	222.7	256.0	279.2	320.1	378.1	411.0	424.9	429.2	438.4
80°	167.3	166.8	152.2	185.0	195.3	229.7	272.2	297.5	305.0	310.9	317.4
82.5°	107.0	107.6	93.1	121.0	125.3	147.4	173.7	189.3	194.7	199.6	204.4
85°	52.2	54.3	46.3	64.0	64.5	75.8	87.1	93.1	95.2	99.0	103.3
87.5°	13.4	15.6	8.6	18.3	16.1	21.0	24.2	25.8	25.3	28.0	29.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2306.0	2306.0	2306.0	2306.0	2306.0	2306.0	2306.0	2306.0	2306.0	2306.0	2306.0
2.5°	2257.0	2274.3	2265.7	2293.6	2304.4	2287.2	2317.3	2317.8	2296.3	2321.6	2335.6
5°	2222.1	2239.8	2234.5	2263.5	2277.0	2261.9	2298.5	2305.5	2284.5	2313.0	2335.6
7.5°	2186.6	2207.6	2200.6	2230.2	2246.3	2234.5	2273.7	2285.0	2268.9	2300.1	2330.2
10°	2155.9	2173.7	2166.1	2197.3	2211.3	2201.6	2240.4	2261.4	2246.3	2284.5	2320.5
12.5°	2125.8	2140.3	2131.7	2157.5	2171.0	2158.6	2205.9	2225.3	2214.6	2254.4	2300.6
15°	2087.1	2103.2	2091.4	2114.5	2124.7	2114.0	2152.7	2186.0	2172.6	2216.2	2267.3
17.5°	2057.5	2066.6	2050.5	2068.8	2074.7	2060.2	2099.4	2132.3	2122.6	2169.9	2229.1
20°	2024.7	2032.2	2009.6	2019.8	2019.3	2001.0	2037.0	2069.3	2062.9	2115.0	2182.3
22.5°	1988.1	1991.9	1965.5	1967.7	1966.6	1936.5	1968.7	2001.5	1998.9	2051.6	2126.9
25°	1949.4	1949.9	1916.0	1914.9	1903.1	1867.6	1896.1	1933.2	1925.2	1982.2	2061.3
27.5°	1911.2	1905.8	1864.9	1855.2	1836.4	1793.9	1819.2	1852.5	1847.7	1903.6	1991.3
30°	1870.3	1863.3	1813.3	1795.5	1768.1	1719.1	1740.1	1771.3	1774.0	1823.0	1914.9
32.5°	1831.6	1813.8	1758.4	1732.6	1698.2	1641.1	1652.4	1684.2	1688.5	1738.0	1832.6
35°	1781.5	1769.7	1701.4	1657.3	1623.4	1561.0	1572.8	1594.9	1601.3	1649.8	1746.0
37.5°	1734.2	1715.4	1642.8	1589.0	1545.4	1479.8	1483.0	1505.6	1512.1	1561.0	1656.2
40°	1685.3	1658.4	1580.4	1517.4	1467.4	1398.6	1394.8	1418.5	1423.3	1471.2	1557.2
42.5°	1633.1	1600.8	1513.1	1444.3	1386.7	1316.8	1309.3	1329.7	1335.1	1381.9	1466.3
45°	1580.4	1541.6	1444.3	1369.0	1306.0	1234.5	1227.0	1242.6	1250.6	1294.7	1376.0
47.5°	1524.4	1479.2	1373.3	1289.4	1224.3	1152.7	1143.6	1159.2	1165.6	1209.2	1286.1
50°	1465.8	1410.9	1300.1	1207.6	1143.0	1072.6	1059.1	1077.4	1083.3	1124.2	1199.5
52.5°	1401.2	1340.5	1222.1	1125.3	1060.7	993.5	977.4	995.1	1002.1	1041.9	1111.3
55°	1332.9	1267.3	1143.6	1049.5	979.5	913.9	900.5	907.4	922.5	960.2	1024.7
57.5°	1256.0	1190.9	1060.7	965.0	897.8	834.8	823.5	830.0	844.0	880.6	938.6
60°	1174.2	1105.4	976.3	880.6	815.5	755.8	745.5	751.5	766.5	799.9	853.7
62.5°	1093.6	1016.1	889.2	793.9	734.8	679.4	676.7	674.5	688.5	720.8	768.1
65°	995.7	921.4	798.3	707.9	654.1	604.1	593.3	598.2	611.6	641.2	690.7
67.5°	890.8	823.5	705.2	621.8	573.9	529.3	520.2	522.3	536.3	562.1	605.1
70°	779.4	720.3	610.0	535.2	494.9	452.9	447.0	447.5	461.0	483.6	521.2
72.5°	662.7	609.4	513.7	449.7	416.3	386.2	380.8	374.4	386.8	406.1	438.4
75°	543.8	497.0	418.0	365.8	339.4	314.1	309.3	302.8	315.2	331.9	357.2
77.5°	423.9	386.2	324.9	284.6	264.1	245.3	241.0	234.0	246.4	258.7	278.6
80°	306.6	279.2	242.6	200.1	193.1	180.7	176.4	168.9	180.7	188.8	203.9
82.5°	197.9	179.7	158.7	129.1	128.0	118.9	116.7	108.1	118.9	123.7	135.0
85°	100.1	91.4	86.1	65.6	67.8	61.9	61.3	52.2	60.8	62.9	69.4
87.5°	28.5	30.1	26.9	16.1	20.4	19.4	19.4	14.0	19.4	19.4	22.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P837726

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-2STD-27-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2306.0	2306.0	2306.0	2306.0	2306.0	2306.0	2306.0	2306.0
2.5°	2308.1	2317.3	2319.4	2318.9	2324.8	2357.1	2346.3	2357.1
5°	2313.5	2334.0	2339.3	2346.9	2356.6	2393.1	2381.3	2394.2
7.5°	2316.8	2347.4	2359.3	2373.8	2389.4	2430.3	2420.6	2433.5
10°	2316.8	2356.6	2373.8	2398.0	2419.0	2466.3	2457.1	2472.2
12.5°	2307.1	2358.2	2382.4	2416.3	2443.2	2494.3	2490.5	2501.3
15°	2287.2	2350.1	2383.5	2427.0	2460.4	2517.4	2515.8	2528.7
17.5°	2260.3	2336.1	2376.5	2431.3	2473.3	2537.3	2541.1	2548.1
20°	2226.4	2309.8	2362.5	2429.7	2482.4	2552.9	2557.7	2567.4
22.5°	2181.7	2278.0	2341.5	2422.7	2483.5	2559.4	2568.0	2577.1
25°	2129.0	2239.8	2314.1	2409.3	2478.1	2558.8	2570.6	2578.7
27.5°	2068.8	2190.3	2279.1	2387.8	2463.1	2550.2	2564.7	2574.4
30°	1998.9	2137.6	2239.3	2359.8	2442.6	2534.1	2549.7	2559.4
32.5°	1926.8	2079.5	2192.0	2323.7	2413.0	2508.3	2521.7	2529.2
35°	1848.2	2009.1	2134.9	2277.5	2374.8	2466.8	2477.1	2485.1
37.5°	1762.7	1932.7	2069.9	2225.3	2321.1	2409.3	2418.4	2427.6
40°	1674.5	1852.5	1996.7	2161.3	2257.0	2338.8	2348.5	2354.9
42.5°	1585.7	1763.8	1918.7	2086.0	2181.2	2259.7	2265.7	2272.1
45°	1495.9	1671.8	1831.0	2002.6	2096.8	2170.4	2172.6	2178.0
47.5°	1404.5	1576.6	1734.7	1907.4	2000.5	2067.7	2069.9	2074.2
50°	1312.5	1481.4	1632.0	1804.7	1895.6	1966.6	1956.9	1961.2
52.5°	1222.1	1381.3	1535.2	1693.9	1783.7	1846.6	1849.3	1840.7
55°	1133.4	1283.4	1424.9	1577.7	1663.2	1712.2	1710.5	1713.8
57.5°	1043.5	1184.5	1314.1	1454.0	1537.3	1583.6	1593.3	1582.0
60°	952.1	1084.4	1200.6	1327.0	1407.7	1446.4	1457.7	1447.0
62.5°	861.2	982.8	1088.2	1198.5	1273.2	1321.1	1320.0	1308.2
65°	770.3	880.6	974.7	1068.3	1133.4	1181.2	1179.1	1168.3
67.5°	686.4	777.3	861.7	937.6	994.0	1026.9	1038.2	1025.2
70°	593.8	672.4	746.6	807.4	854.2	883.8	894.5	883.2
72.5°	501.3	568.0	620.2	678.8	714.9	739.6	750.9	740.2
75°	409.9	464.7	507.2	553.0	578.2	599.2	612.1	601.4
77.5°	321.1	363.6	397.5	430.9	459.9	464.7	476.0	469.1
80°	236.7	267.3	292.1	314.1	335.1	337.3	346.4	342.1
82.5°	157.6	178.0	184.5	207.6	221.1	218.9	228.1	224.8
85°	83.4	95.7	107.0	114.0	121.6	114.6	122.6	119.4
87.5°	28.0	29.6	25.8	36.6	40.3	34.4	39.3	37.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)