

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: P837791

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-3LO-30-120-EDD-90**

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: P837791
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-LD4-3LO-30-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and RFI grid
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

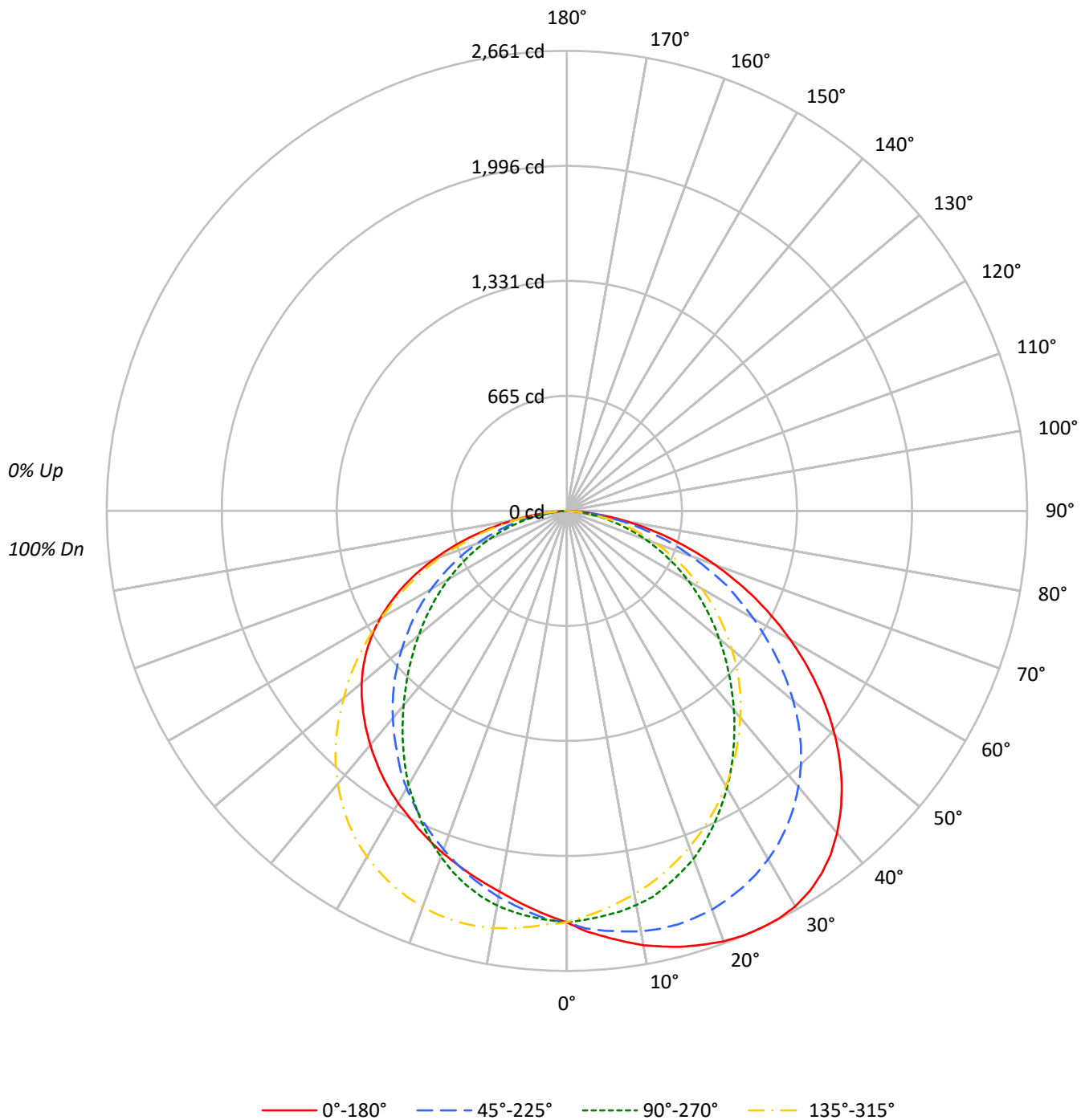
Lumens per Lamp: N/A
Luminaire Lumens: 6982.1 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 70.2
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°	6404	6404	6404	6404
5°	6675	6358	6238	6368
10°	6972	6325	6111	6334
15°	7270	6245	6052	6247
20°	7588	6131	6025	6096
25°	7902	5960	6024	5899
30°	8207	5753	6065	5689
35°	8425	5517	6126	5429
40°	8538	5279	6211	5160
45°	8554	5039	6331	4912
50°	8473	4809	6486	4680
55°	8298	4594	6631	4466
60°	8037	4371	6719	4258
65°	7677	4115	6684	4019
70°	7172	3813	6447	3743
75°	6452	3400	5916	3382
80°	5472	2847	4973	2890
85°	3804	1886	3152	1936

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.9	3.2
10°-20°	654.3	9.4
20°-30°	1002.7	14.4
30°-40°	1219.3	17.5
40°-50°	1267.5	18.2
50°-60°	1144.9	16.4
60°-70°	870.4	12.5
70°-80°	485.3	7.0
80°-90°	111.7	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°	1883.0	27.0
0°-40°	3102.3	44.4
0°-60°	5514.7	79.0
0°-90°	6982.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6982.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2380	2380	2380	2380	2380	
5°	2471	2354	2309	2358	2471	238
15°	2610	2242	2172	2242	2610	740
25°	2661	2007	2029	1987	2661	1229
35°	2565	1679	1865	1653	2565	1602
45°	2248	1324	1664	1291	2248	1731
55°	1769	979	1413	952	1769	1579
65°	1206	646	1050	631	1206	1192
75°	621	327	569	325	621	659
85°	123	61	102	63	123	155
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°	2379.8	2379.8	2379.8	2379.8	2379.8	2379.8	2379.8	2379.8	2379.8	2379.8	2379.8
2.5°	2432.6	2397.0	2397.6	2428.7	2404.8	2416.5	2383.2	2395.9	2392.1	2394.8	2367.6
5°	2470.9	2432.6	2432.0	2458.7	2432.0	2437.0	2394.8	2403.2	2390.9	2383.2	2353.7
7.5°	2511.4	2473.1	2469.2	2492.5	2457.6	2453.7	2407.0	2407.0	2384.8	2365.4	2337.6
10°	2551.4	2512.0	2507.0	2524.7	2481.4	2468.7	2412.0	2403.2	2373.7	2344.9	2314.9
12.5°	2581.4	2541.4	2537.5	2548.6	2499.7	2476.4	2412.0	2394.8	2351.5	2311.0	2287.7
15°	2609.7	2568.6	2558.0	2563.6	2507.5	2476.4	2404.3	2377.6	2322.1	2268.8	2241.6
17.5°	2629.6	2590.2	2579.7	2579.1	2511.4	2467.0	2387.6	2351.0	2284.4	2220.0	2192.8
20°	2649.6	2610.2	2596.9	2586.9	2510.3	2454.2	2363.2	2313.8	2236.1	2163.9	2141.1
22.5°	2659.6	2619.1	2604.7	2589.7	2503.1	2430.9	2333.2	2270.5	2181.7	2095.6	2076.7
25°	2661.3	2619.7	2604.1	2582.5	2488.6	2403.2	2294.3	2218.3	2118.9	2023.4	2007.3
27.5°	2656.8	2611.3	2595.8	2569.7	2467.0	2369.3	2248.3	2158.9	2052.3	1946.8	1929.6
30°	2641.3	2595.2	2580.2	2546.4	2436.5	2327.7	2197.8	2092.8	1978.5	1866.3	1851.4
32.5°	2610.2	2565.3	2553.0	2519.2	2403.2	2279.4	2138.9	2021.8	1896.9	1789.7	1767.5
35°	2564.7	2519.7	2512.0	2476.4	2356.5	2221.6	2074.5	1944.1	1810.3	1700.9	1679.3
37.5°	2505.3	2467.5	2455.9	2420.9	2301.6	2156.1	2000.7	1859.7	1722.0	1604.3	1591.0
40°	2430.4	2394.8	2385.9	2354.9	2237.7	2083.4	1920.7	1772.5	1631.0	1521.6	1502.7
42.5°	2344.9	2311.6	2306.6	2274.4	2158.9	2002.9	1834.1	1682.0	1536.0	1430.6	1411.7
45°	2247.7	2215.5	2214.4	2183.9	2072.9	1913.5	1743.1	1590.4	1443.3	1334.0	1324.0
47.5°	2140.6	2111.7	2111.7	2083.4	1976.8	1815.3	1649.3	1495.0	1350.1	1253.5	1235.7
50°	2024.0	1996.8	1988.5	1974.6	1870.8	1708.1	1550.5	1401.7	1257.9	1165.8	1148.6
52.5°	1899.7	1876.3	1881.9	1856.4	1755.9	1596.6	1450.6	1296.8	1165.2	1081.4	1064.2
55°	1768.6	1735.3	1740.3	1730.9	1636.0	1481.6	1338.4	1210.2	1074.2	995.3	979.2
57.5°	1632.6	1589.3	1607.1	1601.5	1508.3	1364.0	1235.7	1111.9	983.7	911.0	895.4
60°	1493.3	1451.7	1470.0	1465.0	1377.3	1246.3	1129.7	1014.8	893.8	827.7	812.2
62.5°	1350.1	1311.8	1328.4	1324.5	1244.0	1125.8	1024.2	918.7	803.3	743.9	729.4
65°	1205.7	1169.1	1184.1	1181.3	1106.9	1017.0	916.0	819.4	712.2	660.6	646.2
67.5°	1058.1	1024.2	1038.1	1038.1	969.8	883.8	807.2	718.9	622.9	578.4	565.1
70°	911.5	879.9	892.1	891.0	833.2	763.3	697.2	618.4	532.4	495.7	484.6
72.5°	763.9	736.1	747.2	746.1	697.8	652.8	587.3	519.0	444.1	414.7	404.7
75°	620.6	594.5	605.1	604.0	564.6	522.4	478.5	421.9	357.5	337.0	327.0
77.5°	484.1	457.4	466.3	466.3	437.4	406.9	371.9	328.1	282.6	260.4	253.1
80°	353.1	340.3	335.9	336.4	317.0	297.0	279.2	237.0	203.7	188.7	183.7
82.5°	232.0	221.5	217.1	218.2	207.1	194.9	183.7	154.3	132.1	123.2	120.5
85°	123.2	115.5	111.6	114.4	112.1	105.5	99.9	79.9	66.1	62.7	61.1
87.5°	38.9	33.9	31.1	41.1	35.0	31.1	30.0	23.9	18.3	18.3	17.8
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°	2379.8	2379.8	2379.8	2379.8	2379.8	2379.8	2379.8	2379.8	2379.8	2379.8	2379.8
2.5°	2376.5	2376.5	2354.9	2349.9	2347.6	2350.4	2328.8	2324.9	2356.0	2345.4	2321.5
5°	2357.6	2356.5	2326.0	2320.4	2320.4	2317.1	2292.7	2287.1	2318.2	2309.3	2283.2
7.5°	2334.3	2331.0	2294.9	2291.0	2285.5	2283.2	2256.0	2252.2	2278.8	2273.3	2248.8
10°	2306.0	2302.7	2259.9	2257.2	2251.0	2246.6	2221.1	2218.3	2245.5	2236.6	2217.2
12.5°	2268.8	2262.7	2218.9	2216.1	2211.1	2209.4	2184.4	2183.3	2213.3	2204.4	2183.9
15°	2220.0	2215.0	2166.1	2167.2	2167.8	2167.8	2147.8	2146.7	2176.1	2172.2	2150.0
17.5°	2166.1	2159.5	2112.8	2116.2	2120.0	2124.5	2108.9	2111.7	2142.8	2137.8	2117.8
20°	2105.0	2098.4	2052.9	2062.3	2070.6	2079.5	2069.5	2077.3	2106.2	2103.9	2089.0
22.5°	2036.8	2030.1	1987.9	2002.4	2016.2	2032.9	2028.4	2037.3	2067.9	2067.3	2054.0
25°	1953.5	1955.2	1918.0	1935.7	1959.1	1982.4	1984.0	1998.5	2032.3	2029.0	2016.8
27.5°	1875.8	1878.0	1838.6	1868.6	1899.7	1929.6	1936.8	1956.8	1991.2	1988.5	1977.9
30°	1794.2	1797.0	1758.6	1799.7	1837.5	1874.1	1889.7	1916.9	1951.8	1951.8	1940.7
32.5°	1709.2	1714.2	1674.3	1729.2	1773.1	1815.8	1843.0	1871.3	1911.3	1910.2	1900.8
35°	1622.1	1627.6	1591.0	1660.9	1704.8	1757.0	1790.8	1828.6	1864.1	1864.7	1857.5
37.5°	1533.3	1539.9	1506.6	1583.2	1633.2	1694.8	1738.1	1775.9	1815.3	1817.5	1810.8
40°	1445.0	1452.2	1423.4	1497.2	1560.5	1629.3	1679.3	1723.7	1767.0	1768.1	1763.6
42.5°	1356.7	1364.5	1342.9	1415.0	1486.6	1560.5	1619.3	1669.8	1714.2	1717.0	1712.0
45°	1270.7	1277.4	1261.8	1340.6	1409.5	1490.0	1557.7	1614.9	1659.8	1663.7	1662.1
47.5°	1185.2	1191.3	1177.4	1249.6	1329.0	1414.5	1492.7	1556.0	1603.8	1608.2	1607.1
50°	1101.4	1106.4	1091.4	1166.9	1245.7	1336.8	1418.4	1491.6	1544.9	1549.4	1548.8
52.5°	1018.1	1023.1	1010.3	1089.7	1161.3	1257.4	1346.2	1425.6	1478.3	1485.0	1486.1
55°	937.6	939.8	929.8	1005.9	1075.3	1175.8	1277.9	1355.1	1407.8	1413.4	1416.7
57.5°	857.1	857.7	849.3	922.1	988.7	1091.4	1198.5	1279.6	1329.5	1335.1	1340.1
60°	777.2	776.6	767.2	837.7	901.5	1003.1	1114.7	1195.2	1243.5	1248.5	1255.1
62.5°	697.8	696.1	687.8	752.8	812.7	913.2	1025.3	1103.0	1149.1	1152.4	1161.3
65°	619.0	617.3	609.5	669.5	723.9	819.9	929.8	1003.7	1045.3	1049.7	1048.1
67.5°	541.3	537.9	531.8	585.7	635.1	723.9	829.4	899.9	934.3	938.2	948.7
70°	463.5	459.6	445.8	502.9	546.2	625.6	723.9	786.6	815.5	819.4	817.7
72.5°	386.9	383.0	368.1	420.8	457.4	526.8	614.5	666.7	691.7	695.0	695.0
75°	312.5	310.3	300.9	340.8	371.4	428.0	502.4	545.7	565.1	569.0	567.9
77.5°	240.9	239.3	229.8	264.2	288.1	330.3	390.3	424.1	438.6	443.0	452.4
80°	172.6	172.1	157.1	191.0	201.5	237.0	280.9	307.0	314.8	320.9	327.5
82.5°	110.5	111.0	96.0	124.9	129.3	152.1	179.3	195.4	201.0	206.0	210.9
85°	53.8	56.1	47.7	66.1	66.6	78.3	89.9	96.0	98.3	102.1	106.6
87.5°	13.9	16.1	8.9	18.9	16.7	21.7	25.0	26.6	26.1	28.9	30.5
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°	2379.8	2379.8	2379.8	2379.8	2379.8	2379.8	2379.8	2379.8	2379.8	2379.8	2379.8
2.5°	2329.3	2347.1	2338.2	2367.1	2378.2	2360.4	2391.5	2392.1	2369.8	2395.9	2410.4
5°	2293.2	2311.6	2306.0	2336.0	2349.9	2334.3	2372.1	2379.3	2357.6	2387.1	2410.4
7.5°	2256.6	2278.2	2271.0	2301.6	2318.2	2306.0	2346.5	2358.2	2341.5	2373.7	2404.8
10°	2225.0	2243.3	2235.5	2267.7	2282.1	2272.1	2312.1	2333.8	2318.2	2357.6	2394.8
12.5°	2193.9	2208.9	2200.0	2226.6	2240.5	2227.7	2276.6	2296.6	2285.5	2326.5	2374.3
15°	2153.9	2170.6	2158.3	2182.2	2192.8	2181.7	2221.6	2256.0	2242.2	2287.1	2339.9
17.5°	2123.4	2132.8	2116.2	2135.0	2141.1	2126.1	2166.7	2200.5	2190.5	2239.4	2300.5
20°	2089.5	2097.3	2074.0	2084.5	2084.0	2065.1	2102.3	2135.6	2128.9	2182.8	2252.2
22.5°	2051.8	2055.6	2028.4	2030.7	2029.6	1998.5	2031.8	2065.6	2062.9	2117.3	2195.0
25°	2011.8	2012.3	1977.4	1976.3	1964.0	1927.4	1956.8	1995.1	1986.8	2045.7	2127.3
27.5°	1972.4	1966.8	1924.6	1914.6	1895.2	1851.4	1877.4	1911.9	1906.9	1964.6	2055.1
30°	1930.2	1923.0	1871.3	1853.0	1824.7	1774.2	1795.8	1828.0	1830.8	1881.3	1976.3
32.5°	1890.2	1871.9	1814.7	1788.1	1752.5	1693.7	1705.4	1738.1	1742.6	1793.6	1891.3
35°	1838.6	1826.4	1755.9	1710.4	1675.4	1611.0	1623.2	1646.0	1652.6	1702.6	1801.9
37.5°	1789.7	1770.3	1695.4	1639.9	1594.9	1527.2	1530.5	1553.8	1560.5	1611.0	1709.2
40°	1739.2	1711.5	1631.0	1566.0	1514.4	1443.3	1439.4	1463.9	1468.9	1518.3	1607.1
42.5°	1685.4	1652.1	1561.6	1490.5	1431.1	1359.0	1351.2	1372.3	1377.8	1426.1	1513.3
45°	1631.0	1591.0	1490.5	1412.8	1347.9	1274.0	1266.2	1282.3	1290.7	1336.2	1420.0
47.5°	1573.2	1526.6	1417.2	1330.6	1263.5	1189.6	1180.2	1196.3	1203.0	1247.9	1327.3
50°	1512.7	1456.1	1341.7	1246.3	1179.6	1106.9	1093.0	1111.9	1118.0	1160.2	1237.9
52.5°	1446.1	1383.4	1261.3	1161.3	1094.7	1025.3	1008.7	1027.0	1034.2	1075.3	1146.9
55°	1375.6	1307.9	1180.2	1083.1	1010.9	943.2	929.3	936.5	952.0	990.9	1057.5
57.5°	1296.2	1229.1	1094.7	995.9	926.5	861.6	849.9	856.6	871.0	908.7	968.7
60°	1211.8	1140.8	1007.6	908.7	841.6	780.0	769.4	775.5	791.1	825.5	881.0
62.5°	1128.6	1048.6	917.6	819.4	758.3	701.1	698.4	696.1	710.6	743.9	792.7
65°	1027.5	950.9	823.8	730.5	675.0	623.4	612.3	617.3	631.2	661.7	712.8
67.5°	919.3	849.9	727.8	641.7	592.3	546.2	536.8	539.0	553.5	580.1	624.5
70°	804.4	743.3	629.5	552.4	510.7	467.4	461.3	461.9	475.7	499.1	537.9
72.5°	683.9	629.0	530.1	464.1	429.7	398.6	393.0	386.4	399.1	419.1	452.4
75°	561.2	512.9	431.3	377.5	350.3	324.2	319.2	312.5	325.3	342.5	368.6
77.5°	437.4	398.6	335.3	293.7	272.6	253.1	248.7	241.5	254.2	267.0	287.6
80°	316.4	288.1	250.4	206.5	199.3	186.5	182.1	174.3	186.5	194.9	210.4
82.5°	204.3	185.4	163.8	133.2	132.1	122.7	120.5	111.6	122.7	127.7	139.3
85°	103.3	94.4	88.8	67.7	69.9	63.8	63.3	53.8	62.7	65.0	71.6
87.5°	29.4	31.1	27.8	16.7	21.1	20.0	20.0	14.4	20.0	20.0	22.8
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: P837791

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-3LO-30-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2379.8	2379.8	2379.8	2379.8	2379.8	2379.8	2379.8	2379.8
2.5°	2382.1	2391.5	2393.7	2393.2	2399.3	2432.6	2421.5	2432.6
5°	2387.6	2408.7	2414.3	2422.0	2432.0	2469.8	2457.6	2470.9
7.5°	2390.9	2422.6	2434.8	2449.8	2465.9	2508.1	2498.1	2511.4
10°	2390.9	2432.0	2449.8	2474.8	2496.4	2545.3	2535.8	2551.4
12.5°	2380.9	2433.7	2458.7	2493.6	2521.4	2574.1	2570.2	2581.4
15°	2360.4	2425.4	2459.8	2504.7	2539.2	2598.0	2596.3	2609.7
17.5°	2332.7	2410.9	2452.6	2509.2	2552.5	2618.5	2622.4	2629.6
20°	2297.7	2383.7	2438.1	2507.5	2561.9	2634.6	2639.6	2649.6
22.5°	2251.6	2351.0	2416.5	2500.3	2563.0	2641.3	2650.2	2659.6
25°	2197.2	2311.6	2388.2	2486.4	2557.5	2640.7	2653.0	2661.3
27.5°	2135.0	2260.5	2352.1	2464.2	2541.9	2631.9	2646.9	2656.8
30°	2062.9	2206.1	2311.0	2435.4	2520.8	2615.2	2631.3	2641.3
32.5°	1988.5	2146.1	2262.2	2398.2	2490.3	2588.6	2602.4	2610.2
35°	1907.4	2073.4	2203.3	2350.4	2450.9	2545.8	2556.4	2564.7
37.5°	1819.2	1994.6	2136.1	2296.6	2395.4	2486.4	2495.9	2505.3
40°	1728.1	1911.9	2060.6	2230.5	2329.3	2413.7	2423.7	2430.4
42.5°	1636.5	1820.3	1980.1	2152.8	2251.0	2332.1	2338.2	2344.9
45°	1543.8	1725.3	1889.7	2066.7	2163.9	2239.9	2242.2	2247.7
47.5°	1449.4	1627.1	1790.3	1968.5	2064.5	2133.9	2136.1	2140.6
50°	1354.5	1528.8	1684.3	1862.5	1956.3	2029.6	2019.6	2024.0
52.5°	1261.3	1425.6	1584.3	1748.1	1840.8	1905.8	1908.5	1899.7
55°	1169.7	1324.5	1470.5	1628.2	1716.5	1767.0	1765.3	1768.6
57.5°	1077.0	1222.4	1356.2	1500.5	1586.6	1634.3	1644.3	1632.6
60°	982.6	1119.1	1239.0	1369.5	1452.8	1492.7	1504.4	1493.3
62.5°	888.8	1014.2	1123.0	1236.8	1314.0	1363.4	1362.3	1350.1
65°	794.9	908.7	1005.9	1102.5	1169.7	1219.1	1216.8	1205.7
67.5°	708.3	802.2	889.3	967.6	1025.9	1059.7	1071.4	1058.1
70°	612.9	693.9	770.5	833.2	881.5	912.1	923.2	911.5
72.5°	517.4	586.2	640.1	700.6	737.8	763.3	775.0	763.9
75°	423.0	479.6	523.5	570.7	596.8	618.4	631.7	620.6
77.5°	331.4	375.3	410.2	444.7	474.6	479.6	491.3	484.1
80°	244.3	275.9	301.4	324.2	345.8	348.1	357.5	353.1
82.5°	162.7	183.7	190.4	214.3	228.2	225.9	235.4	232.0
85°	86.0	98.8	110.5	117.7	125.5	118.2	126.6	123.2
87.5°	28.9	30.5	26.6	37.7	41.6	35.5	40.5	38.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)