

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: P837809

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-3LO-40-120-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: P837809
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-40-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

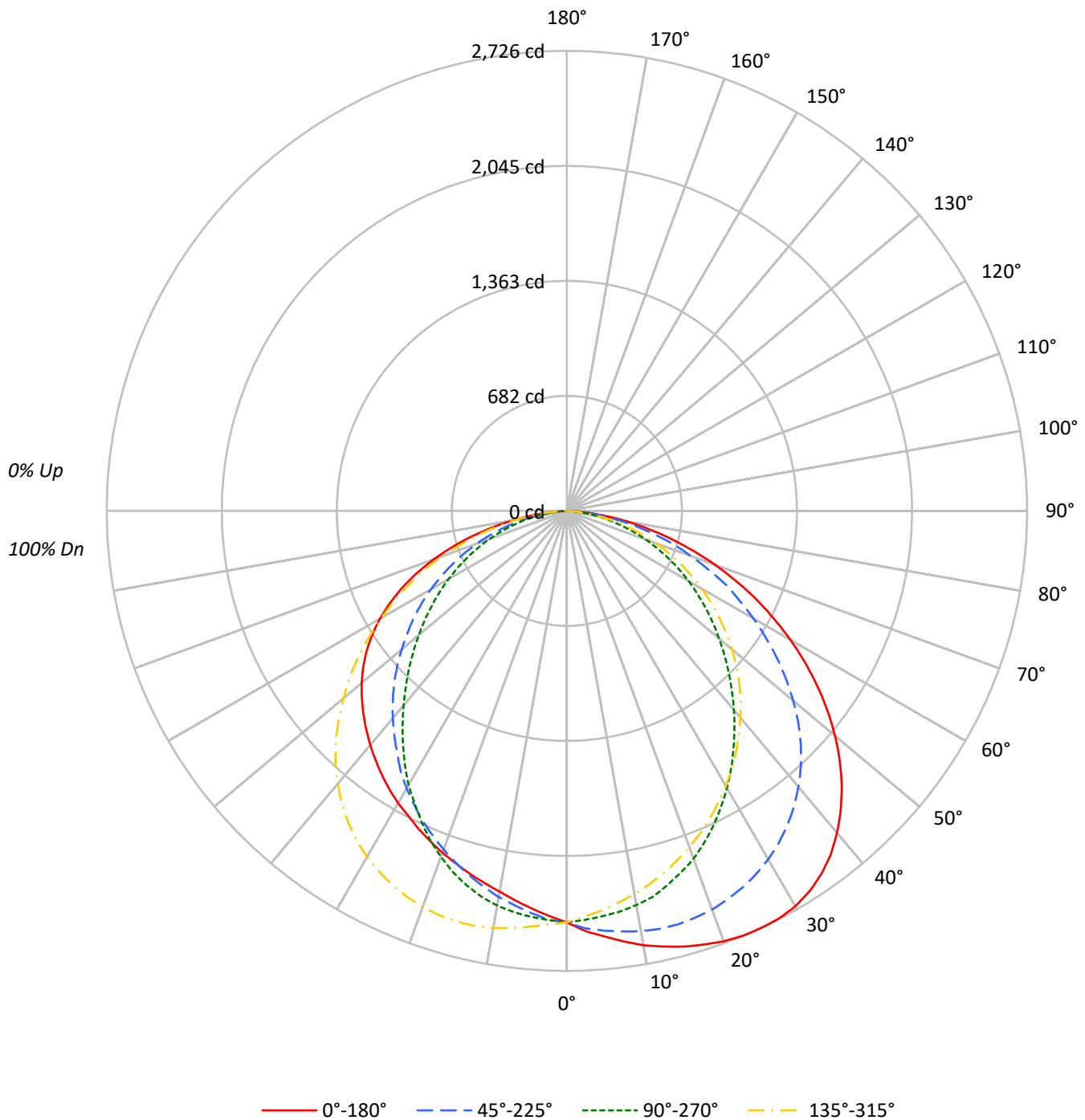
Lumens per Lamp: N/A
Luminaire Lumens: 7152.4 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6560	6560	6560	6560
5°	6837	6513	6390	6524
10°	7142	6480	6261	6489
15°	7448	6397	6199	6399
20°	7773	6281	6172	6245
25°	8095	6105	6171	6043
30°	8407	5893	6213	5828
35°	8631	5651	6275	5561
40°	8746	5408	6362	5286
45°	8762	5162	6486	5032
50°	8680	4926	6645	4795
55°	8500	4706	6792	4576
60°	8233	4478	6883	4362
65°	7864	4215	6848	4117
70°	7347	3906	6604	3834
75°	6611	3482	6060	3464
80°	5605	2916	5094	2961
85°	3896	1933	3230	1985

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.5	3.2
10°-20°	670.3	9.4
20°-30°	1027.2	14.4
30°-40°	1249.0	17.5
40°-50°	1298.4	18.2
50°-60°	1172.9	16.4
60°-70°	891.7	12.5
70°-80°	497.1	7.0
80°-90°	114.5	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°-30°	1928.9	27.0
0°-40°	3177.9	44.4
0°-60°	5649.2	79.0
0°-90°	7152.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7152.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2438	2438	2438	2438	2438	
5°	2531	2411	2366	2415	2531	244
15°	2673	2296	2225	2297	2673	758
25°	2726	2056	2078	2035	2726	1259
35°	2627	1720	1910	1693	2627	1641
45°	2302	1356	1704	1322	2302	1773
55°	1812	1003	1448	975	1812	1617
65°	1235	662	1075	647	1235	1221
75°	636	335	583	333	636	675
85°	126	63	105	64	126	159
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°	2437.9	2437.9	2437.9	2437.9	2437.9	2437.9	2437.9	2437.9	2437.9	2437.9	2437.9
2.5°	2491.9	2455.5	2456.1	2487.9	2463.5	2475.4	2441.3	2454.4	2450.4	2453.2	2425.4
5°	2531.1	2491.9	2491.3	2518.6	2491.3	2496.5	2453.2	2461.8	2449.3	2441.3	2411.2
7.5°	2572.7	2533.4	2529.4	2553.3	2517.5	2513.5	2465.7	2465.7	2443.0	2423.1	2394.7
10°	2613.6	2573.2	2568.1	2586.3	2541.9	2528.9	2470.9	2461.8	2431.6	2402.1	2371.3
12.5°	2644.3	2603.4	2599.4	2610.8	2560.7	2536.8	2470.9	2453.2	2408.9	2367.4	2343.5
15°	2673.3	2631.2	2620.4	2626.1	2568.7	2536.8	2462.9	2435.6	2378.7	2324.1	2296.3
17.5°	2693.8	2653.4	2642.6	2642.0	2572.7	2527.2	2445.8	2408.3	2340.1	2274.1	2246.2
20°	2714.3	2673.9	2660.2	2650.0	2571.5	2514.1	2420.8	2370.2	2290.6	2216.7	2193.4
22.5°	2724.5	2683.0	2668.2	2652.8	2564.1	2490.2	2390.1	2325.9	2234.9	2146.7	2127.4
25°	2726.2	2683.5	2667.6	2645.4	2549.3	2461.8	2350.3	2272.4	2170.6	2072.8	2056.3
27.5°	2721.6	2675.0	2659.1	2632.4	2527.2	2427.1	2303.1	2211.6	2102.4	1994.3	1976.7
30°	2705.7	2658.5	2643.2	2608.5	2495.9	2384.4	2251.4	2143.9	2026.7	1911.9	1896.5
32.5°	2673.9	2627.8	2615.3	2580.6	2461.8	2335.0	2191.1	2071.1	1943.1	1833.4	1810.6
35°	2627.2	2581.2	2573.2	2536.8	2414.0	2275.8	2125.1	1991.5	1854.4	1742.4	1720.2
37.5°	2566.4	2527.7	2515.8	2480.0	2357.7	2208.7	2049.5	1905.0	1764.0	1643.5	1629.8
40°	2489.6	2453.2	2444.1	2412.3	2292.3	2134.2	1967.6	1815.8	1670.7	1558.7	1539.4
42.5°	2402.1	2367.9	2362.8	2329.8	2211.6	2051.8	1878.9	1723.1	1573.5	1465.5	1446.1
45°	2302.5	2269.6	2268.4	2237.1	2123.4	1960.2	1785.6	1629.2	1478.5	1366.5	1356.3
47.5°	2192.8	2163.2	2163.2	2134.2	2025.0	1859.5	1689.5	1531.4	1383.0	1284.1	1265.9
50°	2073.4	2045.5	2037.0	2022.8	1916.4	1749.8	1588.3	1435.9	1288.6	1194.2	1176.6
52.5°	1946.0	1922.1	1927.8	1901.6	1798.7	1635.5	1485.9	1328.4	1193.6	1107.8	1090.1
55°	1811.8	1777.7	1782.8	1773.1	1675.9	1517.8	1371.1	1239.7	1100.4	1019.6	1003.1
57.5°	1672.5	1628.1	1646.3	1640.6	1545.1	1397.2	1265.9	1139.0	1007.7	933.2	917.3
60°	1529.7	1487.1	1505.8	1500.7	1410.9	1276.7	1157.2	1039.5	915.6	847.9	832.0
62.5°	1383.0	1343.8	1360.8	1356.8	1274.4	1153.3	1049.2	941.1	822.9	762.0	747.2
65°	1235.1	1197.6	1213.0	1210.1	1133.9	1041.8	938.3	839.4	729.6	676.7	661.9
67.5°	1083.9	1049.2	1063.4	1063.4	993.5	905.3	826.8	736.4	638.0	592.6	578.9
70°	933.8	901.3	913.9	912.7	853.6	781.9	714.2	633.5	545.4	507.8	496.4
72.5°	782.5	754.1	765.4	764.3	714.8	668.8	601.7	531.7	454.9	424.8	414.6
75°	635.8	609.0	619.8	618.7	578.3	535.1	490.2	432.2	366.2	345.2	334.9
77.5°	495.9	468.6	477.7	477.7	448.1	416.8	381.0	336.1	289.5	266.7	259.3
80°	361.7	348.6	344.0	344.6	324.7	304.2	286.0	242.8	208.7	193.3	188.2
82.5°	237.7	226.9	222.3	223.5	212.1	199.6	188.2	158.1	135.3	126.2	123.4
85°	126.2	118.3	114.3	117.1	114.9	108.0	102.4	81.9	67.7	64.3	62.6
87.5°	39.8	34.7	31.8	42.1	35.8	31.8	30.7	24.5	18.8	18.8	18.2
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°	2437.9	2437.9	2437.9	2437.9	2437.9	2437.9	2437.9	2437.9	2437.9	2437.9	2437.9
2.5°	2434.5	2434.5	2412.3	2407.2	2404.9	2407.7	2385.6	2381.6	2413.4	2402.6	2378.2
5°	2415.1	2414.0	2382.7	2377.0	2377.0	2373.6	2348.6	2342.9	2374.8	2365.7	2338.9
7.5°	2391.3	2387.8	2350.9	2346.9	2341.2	2338.9	2311.1	2307.1	2334.4	2328.7	2303.7
10°	2362.3	2358.8	2315.1	2312.2	2306.0	2301.4	2275.2	2272.4	2300.3	2291.2	2271.3
12.5°	2324.1	2317.9	2273.0	2270.1	2265.0	2263.3	2237.7	2236.6	2267.3	2258.2	2237.1
15°	2274.1	2269.0	2218.9	2220.1	2220.7	2220.7	2200.2	2199.0	2229.2	2225.2	2202.5
17.5°	2218.9	2212.1	2164.4	2167.8	2171.7	2176.3	2160.4	2163.2	2195.1	2189.9	2169.5
20°	2156.4	2149.6	2102.9	2112.6	2121.1	2130.2	2120.0	2128.0	2157.5	2155.3	2139.9
22.5°	2086.4	2079.6	2036.4	2051.2	2065.4	2082.5	2077.9	2087.0	2118.3	2117.7	2104.1
25°	2001.1	2002.9	1964.8	1982.9	2006.8	2030.7	2032.4	2047.2	2081.9	2078.5	2066.0
27.5°	1921.5	1923.8	1883.4	1914.1	1946.0	1976.7	1984.1	2004.6	2039.8	2037.0	2026.2
30°	1837.9	1840.8	1801.5	1843.6	1882.3	1919.8	1935.7	1963.6	1999.4	1999.4	1988.1
32.5°	1750.9	1756.0	1715.1	1771.4	1816.3	1860.1	1888.0	1917.0	1957.9	1956.8	1947.1
35°	1661.7	1667.3	1629.8	1701.5	1746.4	1799.8	1834.5	1873.2	1909.6	1910.2	1902.8
37.5°	1570.7	1577.5	1543.4	1621.8	1673.0	1736.1	1780.5	1819.2	1859.5	1861.8	1855.0
40°	1480.2	1487.6	1458.1	1533.7	1598.5	1669.0	1720.2	1765.7	1810.1	1811.2	1806.7
42.5°	1389.8	1397.8	1375.6	1449.5	1522.9	1598.5	1658.8	1710.6	1756.0	1758.9	1753.8
45°	1301.7	1308.5	1292.6	1373.3	1443.8	1526.3	1595.7	1654.3	1700.3	1704.3	1702.6
47.5°	1214.1	1220.4	1206.1	1280.1	1361.4	1449.0	1529.2	1594.0	1642.9	1647.4	1646.3
50°	1128.2	1133.4	1118.0	1195.3	1276.1	1369.4	1452.9	1528.0	1582.6	1587.2	1586.6
52.5°	1042.9	1048.1	1035.0	1116.3	1189.7	1288.0	1379.0	1460.3	1514.4	1521.2	1522.3
55°	960.5	962.8	952.5	1030.4	1101.5	1204.4	1309.1	1388.1	1442.1	1447.8	1451.2
57.5°	878.0	878.6	870.1	944.6	1012.8	1118.0	1227.8	1310.8	1362.0	1367.6	1372.8
60°	796.1	795.6	785.9	858.1	923.5	1027.6	1141.9	1224.3	1273.8	1278.9	1285.8
62.5°	714.8	713.1	704.6	771.1	832.5	935.5	1050.3	1129.9	1177.1	1180.6	1189.7
65°	634.1	632.4	624.4	685.8	741.5	839.9	952.5	1028.2	1070.8	1075.4	1073.6
67.5°	554.5	551.0	544.8	599.9	650.6	741.5	849.6	921.8	957.1	961.1	971.9
70°	474.8	470.9	456.6	515.2	559.6	640.9	741.5	805.8	835.4	839.4	837.6
72.5°	396.4	392.4	377.0	431.1	468.6	539.7	629.5	683.0	708.6	712.0	712.0
75°	320.2	317.9	308.2	349.2	380.4	438.4	514.6	559.0	578.9	582.9	581.7
77.5°	246.8	245.1	235.4	270.7	295.1	338.4	399.8	434.5	449.2	453.8	463.5
80°	176.9	176.3	160.9	195.6	206.4	242.8	287.7	314.5	322.4	328.7	335.5
82.5°	113.2	113.7	98.4	128.0	132.5	155.8	183.7	200.2	205.9	211.0	216.1
85°	55.2	57.4	48.9	67.7	68.2	80.2	92.1	98.4	100.7	104.6	109.2
87.5°	14.2	16.5	9.1	19.3	17.1	22.2	25.6	27.3	26.7	29.6	31.3
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°	2437.9	2437.9	2437.9	2437.9	2437.9	2437.9	2437.9	2437.9	2437.9	2437.9	2437.9
2.5°	2386.1	2404.3	2395.2	2424.8	2436.2	2418.0	2449.8	2450.4	2427.6	2454.4	2469.2
5°	2349.2	2367.9	2362.3	2393.0	2407.2	2391.3	2429.9	2437.3	2415.1	2445.3	2469.2
7.5°	2311.6	2333.8	2326.4	2357.7	2374.8	2362.3	2403.8	2415.7	2398.6	2431.6	2463.5
10°	2279.2	2298.0	2290.0	2323.0	2337.8	2327.6	2368.5	2390.7	2374.8	2415.1	2453.2
12.5°	2247.4	2262.7	2253.6	2280.9	2295.1	2282.1	2332.1	2352.6	2341.2	2383.3	2432.2
15°	2206.4	2223.5	2211.0	2235.4	2246.2	2234.9	2275.8	2311.1	2296.9	2342.9	2396.9
17.5°	2175.2	2184.8	2167.8	2187.1	2193.4	2178.0	2219.5	2254.2	2244.0	2294.0	2356.6
20°	2140.5	2148.4	2124.5	2135.4	2134.8	2115.4	2153.5	2187.7	2180.8	2236.0	2307.1
22.5°	2101.8	2105.8	2077.9	2080.2	2079.1	2047.2	2081.3	2116.0	2113.2	2168.9	2248.5
25°	2060.9	2061.4	2025.6	2024.5	2012.0	1974.4	2004.6	2043.8	2035.3	2095.5	2179.1
27.5°	2020.5	2014.8	1971.6	1961.3	1941.4	1896.5	1923.2	1958.5	1953.4	2012.5	2105.2
30°	1977.3	1969.9	1917.0	1898.2	1869.2	1817.5	1839.6	1872.6	1875.5	1927.2	2024.5
32.5°	1936.3	1917.6	1859.0	1831.7	1795.3	1735.0	1747.0	1780.5	1785.1	1837.4	1937.5
35°	1883.4	1870.9	1798.7	1752.1	1716.2	1650.3	1662.8	1686.1	1692.9	1744.1	1845.9
37.5°	1833.4	1813.5	1736.7	1679.8	1633.8	1564.4	1567.8	1591.7	1598.5	1650.3	1750.9
40°	1781.6	1753.2	1670.7	1604.2	1551.3	1478.5	1474.6	1499.6	1504.7	1555.3	1646.3
42.5°	1726.5	1692.4	1599.7	1526.9	1466.0	1392.1	1384.1	1405.7	1411.4	1460.9	1550.2
45°	1670.7	1629.8	1526.9	1447.3	1380.7	1305.1	1297.1	1313.6	1322.2	1368.8	1454.7
47.5°	1611.6	1563.8	1451.8	1363.1	1294.3	1218.7	1209.0	1225.5	1232.3	1278.4	1359.7
50°	1549.6	1491.6	1374.5	1276.7	1208.4	1133.9	1119.7	1139.0	1145.3	1188.5	1268.1
52.5°	1481.4	1417.1	1292.0	1189.7	1121.4	1050.3	1033.3	1052.0	1059.4	1101.5	1174.9
55°	1409.2	1339.8	1209.0	1109.5	1035.5	966.2	952.0	959.3	975.3	1015.1	1083.3
57.5°	1327.8	1259.0	1121.4	1020.2	949.1	882.6	870.6	877.5	892.2	930.9	992.3
60°	1241.4	1168.6	1032.1	930.9	862.1	799.0	788.2	794.4	810.4	845.6	902.5
62.5°	1156.1	1074.2	940.0	839.4	776.8	718.2	715.4	713.1	727.9	762.0	812.1
65°	1052.6	974.1	843.9	748.4	691.5	638.6	627.2	632.4	646.6	677.9	730.2
67.5°	941.7	870.6	745.5	657.4	606.8	559.6	549.9	552.2	567.0	594.3	639.8
70°	824.0	761.4	644.9	565.8	523.2	478.8	472.6	473.1	487.3	511.2	551.0
72.5°	700.6	644.3	543.1	475.4	440.1	408.3	402.6	395.8	408.9	429.3	463.5
75°	574.9	525.4	441.9	386.7	358.8	332.1	327.0	320.2	333.2	350.9	377.6
77.5°	448.1	408.3	343.5	300.8	279.2	259.3	254.8	247.4	260.5	273.5	294.6
80°	324.1	295.1	256.5	211.5	204.2	191.1	186.5	178.6	191.1	199.6	215.5
82.5°	209.3	189.9	167.8	136.5	135.3	125.7	123.4	114.3	125.7	130.8	142.7
85°	105.8	96.7	91.0	69.4	71.7	65.4	64.8	55.2	64.3	66.5	73.4
87.5°	30.1	31.8	28.4	17.1	21.6	20.5	20.5	14.8	20.5	20.5	23.3
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: P837809

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-3LO-40-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2437.9	2437.9	2437.9	2437.9	2437.9	2437.9	2437.9	2437.9
2.5°	2440.2	2449.8	2452.1	2451.5	2457.8	2491.9	2480.5	2491.9
5°	2445.8	2467.5	2473.1	2481.1	2491.3	2530.0	2517.5	2531.1
7.5°	2449.3	2481.7	2494.2	2509.5	2526.0	2569.2	2559.0	2572.7
10°	2449.3	2491.3	2509.5	2535.1	2557.3	2607.3	2597.7	2613.6
12.5°	2439.0	2493.0	2518.6	2554.5	2582.9	2636.9	2632.9	2644.3
15°	2418.0	2484.5	2519.8	2565.8	2601.1	2661.4	2659.7	2673.3
17.5°	2389.5	2469.7	2512.4	2570.4	2614.7	2682.4	2686.4	2693.8
20°	2353.7	2441.9	2497.6	2568.7	2624.4	2698.9	2704.0	2714.3
22.5°	2306.5	2408.3	2475.4	2561.3	2625.5	2705.7	2714.8	2724.5
25°	2250.8	2367.9	2446.4	2547.1	2619.9	2705.2	2717.7	2726.2
27.5°	2187.1	2315.6	2409.4	2524.3	2603.9	2696.1	2711.4	2721.6
30°	2113.2	2259.9	2367.4	2494.7	2582.3	2679.0	2695.5	2705.7
32.5°	2037.0	2198.5	2317.3	2456.6	2551.0	2651.7	2665.9	2673.9
35°	1953.9	2124.0	2257.0	2407.7	2510.7	2607.9	2618.7	2627.2
37.5°	1863.5	2043.2	2188.2	2352.6	2453.8	2547.1	2556.7	2566.4
40°	1770.3	1958.5	2110.9	2284.9	2386.1	2472.6	2482.8	2489.6
42.5°	1676.4	1864.7	2028.4	2205.3	2306.0	2389.0	2395.2	2402.1
45°	1581.5	1767.4	1935.7	2117.2	2216.7	2294.6	2296.9	2302.5
47.5°	1484.8	1666.8	1834.0	2016.5	2114.9	2186.0	2188.2	2192.8
50°	1387.6	1566.1	1725.3	1907.9	2004.0	2079.1	2068.8	2073.4
52.5°	1292.0	1460.3	1623.0	1790.7	1885.7	1952.2	1955.1	1946.0
55°	1198.2	1356.8	1506.4	1667.9	1758.3	1810.1	1808.4	1811.8
57.5°	1103.2	1252.2	1389.3	1537.1	1625.3	1674.2	1684.4	1672.5
60°	1006.5	1146.4	1269.3	1402.9	1488.2	1529.2	1541.1	1529.7
62.5°	910.4	1039.0	1150.4	1267.0	1346.0	1396.7	1395.5	1383.0
65°	814.3	930.9	1030.4	1129.4	1198.2	1248.8	1246.5	1235.1
67.5°	725.6	821.7	911.0	991.2	1050.9	1085.6	1097.5	1083.9
70°	627.8	710.8	789.3	853.6	903.0	934.3	945.7	933.8
72.5°	530.0	600.5	655.7	717.7	755.8	781.9	793.9	782.5
75°	433.3	491.3	536.3	584.6	611.3	633.5	647.1	635.8
77.5°	339.5	384.4	420.2	455.5	486.2	491.3	503.3	495.9
80°	250.2	282.6	308.8	332.1	354.3	356.6	366.2	361.7
82.5°	166.6	188.2	195.1	219.5	233.7	231.4	241.1	237.7
85°	88.1	101.2	113.2	120.6	128.5	121.1	129.7	126.2
87.5°	29.6	31.3	27.3	38.7	42.7	36.4	41.5	39.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)