

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: P837800

Luminaire Tested: **ORLG-12-4-INS-ASY2R-LD4-3LO-35-120-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: P837800
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-35-120-EDD-90
Description: 1FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

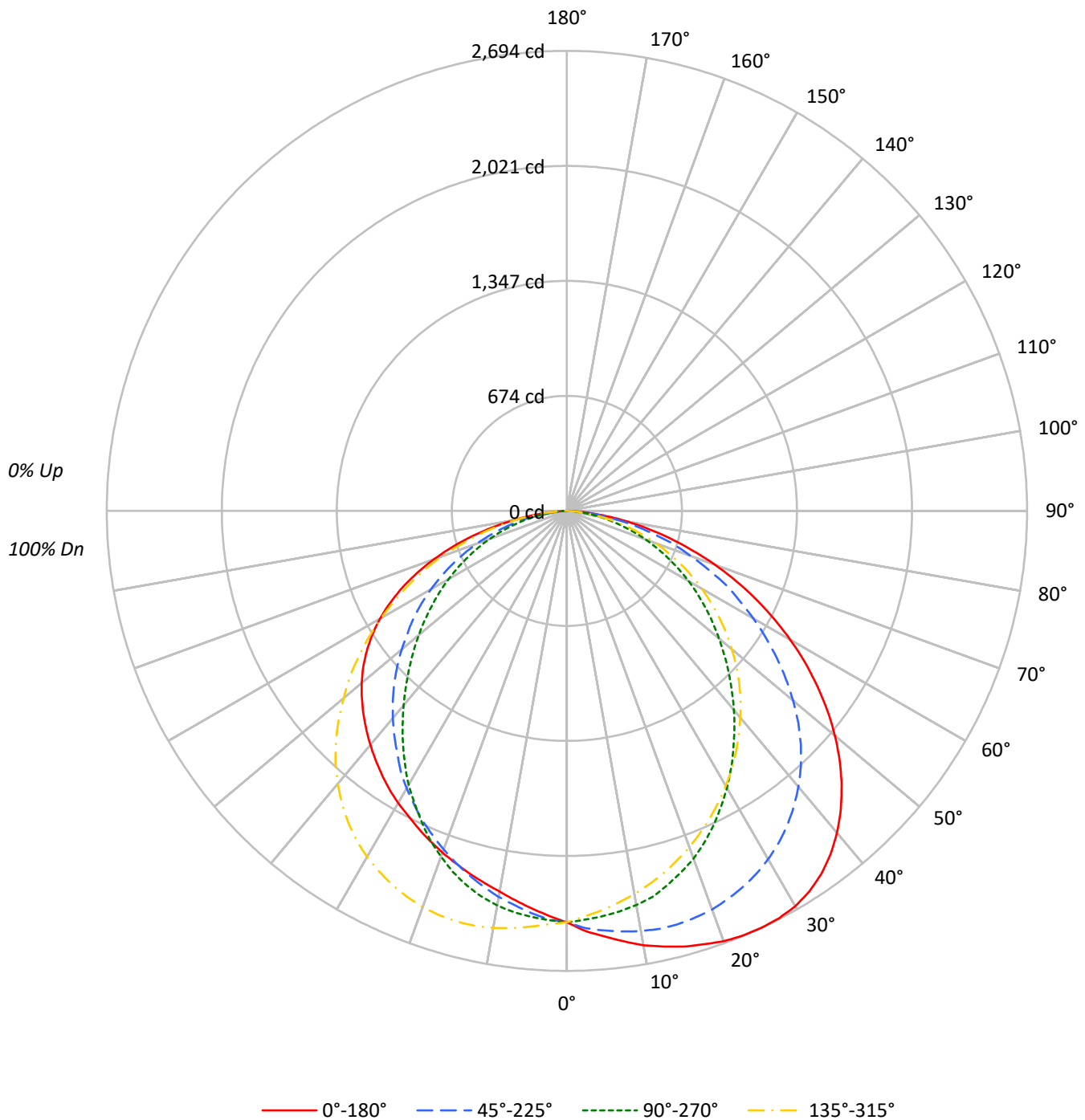
Lumens per Lamp: N/A
Luminaire Lumens: 7067.3 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	6482	6482	6482	6482
5°	6756	6436	6314	6446
10°	7057	6403	6186	6412
15°	7359	6321	6125	6323
20°	7680	6206	6098	6171
25°	7998	6033	6098	5971
30°	8307	5823	6139	5758
35°	8528	5584	6200	5495
40°	8642	5343	6287	5223
45°	8658	5100	6409	4972
50°	8577	4867	6566	4738
55°	8399	4650	6712	4521
60°	8135	4425	6801	4309
65°	7771	4165	6766	4068
70°	7259	3859	6526	3788
75°	6531	3441	5988	3424
80°	5539	2882	5033	2926
85°	3850	1908	3193	1961

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.7	3.2
10°-20°	662.3	9.4
20°-30°	1015.0	14.4
30°-40°	1234.1	17.5
40°-50°	1283.0	18.2
50°-60°	1158.9	16.4
60°-70°	881.1	12.5
70°-80°	491.2	7.0
80°-90°	113.1	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°	1905.9	27.0
0°-40°	3140.1	44.4
0°-60°	5581.9	79.0
0°-90°	7067.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7067.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2409	2409	2409	2409	2409	
5°	2501	2382	2338	2386	2501	241
15°	2642	2269	2199	2270	2642	749
25°	2694	2032	2054	2011	2694	1244
35°	2596	1700	1887	1673	2596	1621
45°	2275	1340	1684	1306	2275	1752
55°	1790	991	1431	964	1790	1598
65°	1220	654	1063	639	1220	1206
75°	628	331	576	329	628	667
85°	125	62	103	64	125	157
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°	2408.9	2408.9	2408.9	2408.9	2408.9	2408.9	2408.9	2408.9	2408.9	2408.9	2408.9
2.5°	2462.2	2426.3	2426.8	2458.3	2434.1	2445.9	2412.2	2425.2	2421.2	2424.0	2396.5
5°	2501.0	2462.2	2461.7	2488.7	2461.7	2466.7	2424.0	2432.5	2420.1	2412.2	2382.5
7.5°	2542.0	2503.3	2499.3	2522.9	2487.5	2483.6	2436.4	2436.4	2413.9	2394.3	2366.2
10°	2582.5	2542.6	2537.5	2555.5	2511.7	2498.8	2441.5	2432.5	2402.7	2373.5	2343.1
12.5°	2612.8	2572.4	2568.4	2579.7	2530.2	2506.6	2441.5	2424.0	2380.2	2339.2	2315.6
15°	2641.5	2599.9	2589.2	2594.8	2538.1	2506.6	2433.6	2406.6	2350.4	2296.5	2268.9
17.5°	2661.7	2621.8	2611.1	2610.6	2542.0	2497.1	2416.7	2379.6	2312.2	2247.0	2219.5
20°	2681.9	2642.0	2628.6	2618.4	2540.9	2484.2	2392.0	2342.0	2263.3	2190.3	2167.2
22.5°	2692.1	2651.0	2636.4	2621.3	2533.6	2460.6	2361.7	2298.2	2208.3	2121.2	2102.1
25°	2693.7	2651.6	2635.9	2614.0	2519.0	2432.5	2322.3	2245.3	2144.8	2048.1	2031.8
27.5°	2689.2	2643.2	2627.4	2601.0	2497.1	2398.2	2275.7	2185.2	2077.3	1970.6	1953.2
30°	2673.5	2626.9	2611.7	2577.4	2466.2	2356.0	2224.6	2118.4	2002.6	1889.1	1873.9
32.5°	2642.0	2596.5	2584.2	2549.9	2432.5	2307.2	2165.0	2046.4	1920.0	1811.6	1789.1
35°	2596.0	2550.5	2542.6	2506.6	2385.3	2248.7	2099.8	1967.8	1832.4	1721.7	1699.7
37.5°	2535.8	2497.6	2485.8	2450.4	2329.6	2182.4	2025.1	1882.4	1743.0	1623.9	1610.4
40°	2460.0	2424.0	2415.0	2383.6	2265.0	2108.8	1944.2	1794.1	1650.9	1540.2	1521.1
42.5°	2373.5	2339.7	2334.7	2302.1	2185.2	2027.3	1856.5	1702.6	1554.8	1448.0	1428.9
45°	2275.1	2242.5	2241.4	2210.5	2098.1	1936.9	1764.4	1609.8	1460.9	1350.2	1340.1
47.5°	2166.7	2137.5	2137.5	2108.8	2000.9	1837.4	1669.4	1513.2	1366.5	1268.8	1250.8
50°	2048.7	2021.2	2012.7	1998.7	1893.6	1729.0	1569.4	1418.8	1273.3	1180.0	1162.6
52.5°	1922.8	1899.2	1904.8	1879.0	1777.3	1616.0	1468.2	1312.6	1179.4	1094.6	1077.2
55°	1790.2	1756.5	1761.6	1752.0	1655.9	1499.7	1354.7	1224.9	1087.3	1007.5	991.2
57.5°	1652.5	1608.7	1626.7	1621.1	1526.7	1380.6	1250.8	1125.5	995.7	922.1	906.3
60°	1511.5	1469.4	1487.9	1482.9	1394.1	1261.5	1143.5	1027.2	904.7	837.8	822.1
62.5°	1366.5	1327.8	1344.6	1340.7	1259.2	1139.5	1036.7	929.9	813.1	752.9	738.3
65°	1220.4	1183.4	1198.5	1195.7	1120.4	1029.4	927.1	829.4	720.9	668.7	654.1
67.5°	1071.0	1036.7	1050.8	1050.8	981.6	894.5	817.0	727.7	630.5	585.5	572.0
70°	922.6	890.6	903.0	901.8	843.4	772.6	705.7	626.0	538.9	501.8	490.5
72.5°	773.2	745.1	756.3	755.2	706.3	660.8	594.5	525.4	449.5	419.7	409.6
75°	628.2	601.8	612.5	611.3	571.5	528.7	484.4	427.0	361.9	341.1	331.0
77.5°	490.0	463.0	472.0	472.0	442.8	411.9	376.5	332.1	286.0	263.5	256.2
80°	357.4	344.4	339.9	340.5	320.8	300.6	282.6	239.9	206.2	191.0	186.0
82.5°	234.9	224.2	219.7	220.8	209.6	197.2	186.0	156.2	133.7	124.7	121.9
85°	124.7	116.9	112.9	115.8	113.5	106.8	101.1	80.9	66.9	63.5	61.8
87.5°	39.3	34.3	31.5	41.6	35.4	31.5	30.3	24.2	18.5	18.5	18.0
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°	2408.9	2408.9	2408.9	2408.9	2408.9	2408.9	2408.9	2408.9	2408.9	2408.9	2408.9
2.5°	2405.5	2405.5	2383.6	2378.5	2376.3	2379.1	2357.2	2353.2	2384.7	2374.0	2349.9
5°	2386.4	2385.3	2354.4	2348.7	2348.7	2345.4	2320.6	2315.0	2346.5	2337.5	2311.1
7.5°	2362.8	2359.4	2322.9	2319.0	2313.3	2311.1	2283.6	2279.6	2306.6	2301.0	2276.3
10°	2334.1	2330.8	2287.5	2284.7	2278.5	2274.0	2248.2	2245.3	2272.9	2263.9	2244.2
12.5°	2296.5	2290.3	2245.9	2243.1	2238.0	2236.4	2211.1	2209.9	2240.3	2231.3	2210.5
15°	2247.0	2242.0	2192.5	2193.7	2194.2	2194.2	2174.0	2172.9	2202.6	2198.7	2176.2
17.5°	2192.5	2185.8	2138.6	2142.0	2145.9	2150.4	2134.7	2137.5	2168.9	2163.9	2143.6
20°	2130.7	2124.0	2077.9	2087.5	2095.9	2104.9	2094.8	2102.6	2131.8	2129.6	2114.4
22.5°	2061.6	2054.9	2012.2	2026.8	2040.8	2057.7	2053.2	2062.2	2093.1	2092.5	2079.0
25°	1977.3	1979.0	1941.4	1959.3	1982.9	2006.5	2008.2	2022.8	2057.1	2053.7	2041.4
27.5°	1898.7	1900.9	1861.0	1891.4	1922.8	1953.2	1960.5	1980.7	2015.5	2012.7	2002.0
30°	1816.1	1818.9	1780.1	1821.7	1859.9	1897.0	1912.7	1940.2	1975.6	1975.6	1964.4
32.5°	1730.1	1735.1	1694.7	1750.3	1794.7	1838.0	1865.5	1894.2	1934.6	1933.5	1923.9
35°	1641.9	1647.5	1610.4	1681.2	1725.6	1778.4	1812.7	1850.9	1886.9	1887.4	1880.1
37.5°	1552.0	1558.7	1525.0	1602.5	1653.1	1715.5	1759.3	1797.5	1837.4	1839.7	1832.9
40°	1462.6	1469.9	1440.7	1515.4	1579.5	1649.2	1699.7	1744.7	1788.5	1789.6	1785.2
42.5°	1373.3	1381.1	1359.2	1432.3	1504.8	1579.5	1639.1	1690.2	1735.1	1738.0	1732.9
45°	1286.2	1292.9	1277.2	1357.0	1426.7	1508.1	1576.7	1634.6	1680.1	1684.0	1682.3
47.5°	1199.7	1205.8	1191.8	1264.8	1345.2	1431.7	1510.9	1575.0	1623.3	1627.8	1626.7
50°	1114.8	1119.9	1104.7	1181.1	1260.9	1353.1	1435.7	1509.8	1563.8	1568.3	1567.7
52.5°	1030.5	1035.6	1022.7	1103.0	1175.5	1272.7	1362.6	1443.0	1496.3	1503.1	1504.2
55°	949.0	951.3	941.2	1018.2	1088.4	1190.1	1293.5	1371.6	1425.0	1430.6	1434.0
57.5°	867.6	868.1	859.7	933.3	1000.7	1104.7	1213.1	1295.2	1345.7	1351.4	1356.4
60°	786.7	786.1	776.5	847.9	912.5	1015.4	1128.3	1209.8	1258.7	1263.7	1270.5
62.5°	706.3	704.6	696.2	761.9	822.6	924.3	1037.8	1116.5	1163.1	1166.5	1175.5
65°	626.5	624.8	617.0	677.7	732.7	829.9	941.2	1015.9	1058.1	1062.6	1060.9
67.5°	547.9	544.5	538.3	592.8	642.8	732.7	839.5	910.8	945.7	949.6	960.3
70°	469.2	465.3	451.2	509.1	552.9	633.3	732.7	796.2	825.4	829.4	827.7
72.5°	391.6	387.7	372.5	425.9	463.0	533.2	622.0	674.8	700.1	703.5	703.5
75°	316.3	314.1	304.5	345.0	375.9	433.2	508.5	552.3	572.0	575.9	574.8
77.5°	243.9	242.2	232.6	267.5	291.6	334.3	395.0	429.3	443.9	448.4	457.9
80°	174.8	174.2	159.0	193.3	204.0	239.9	284.3	310.7	318.6	324.8	331.5
82.5°	111.8	112.4	97.2	126.4	130.9	154.0	181.5	197.8	203.4	208.5	213.5
85°	54.5	56.8	48.3	66.9	67.4	79.2	91.0	97.2	99.5	103.4	107.9
87.5°	14.0	16.3	9.0	19.1	16.9	21.9	25.3	27.0	26.4	29.2	30.9
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°	2408.9	2408.9	2408.9	2408.9	2408.9	2408.9	2408.9	2408.9	2408.9	2408.9	2408.9
2.5°	2357.7	2375.7	2366.7	2395.9	2407.2	2389.2	2420.7	2421.2	2398.7	2425.2	2439.8
5°	2321.2	2339.7	2334.1	2364.5	2378.5	2362.8	2401.0	2408.3	2386.4	2416.2	2439.8
7.5°	2284.1	2306.0	2298.7	2329.6	2346.5	2334.1	2375.1	2386.9	2370.1	2402.7	2434.1
10°	2252.1	2270.6	2262.8	2295.4	2310.0	2299.9	2340.3	2362.2	2346.5	2386.4	2424.0
12.5°	2220.6	2235.8	2226.8	2253.8	2267.8	2254.9	2304.3	2324.6	2313.3	2354.9	2403.2
15°	2180.2	2197.0	2184.7	2208.8	2219.5	2208.3	2248.7	2283.6	2269.5	2315.0	2368.4
17.5°	2149.3	2158.8	2142.0	2161.1	2167.2	2152.1	2193.1	2227.4	2217.3	2266.7	2328.5
20°	2115.0	2122.9	2099.3	2109.9	2109.4	2090.3	2127.9	2161.6	2154.9	2209.4	2279.6
22.5°	2076.8	2080.7	2053.2	2055.4	2054.3	2022.8	2056.5	2090.8	2088.0	2143.1	2221.7
25°	2036.3	2036.9	2001.5	2000.4	1988.0	1950.9	1980.7	2019.5	2011.0	2070.6	2153.2
27.5°	1996.4	1990.8	1948.1	1938.0	1918.3	1873.9	1900.3	1935.2	1930.1	1988.6	2080.1
30°	1953.7	1946.4	1894.2	1875.6	1847.0	1795.8	1817.7	1850.3	1853.1	1904.3	2000.4
32.5°	1913.3	1894.7	1836.8	1809.9	1773.9	1714.4	1726.2	1759.3	1763.8	1815.5	1914.4
35°	1861.0	1848.6	1777.3	1731.2	1695.8	1630.6	1643.0	1666.0	1672.8	1723.3	1823.9
37.5°	1811.6	1791.9	1716.0	1659.8	1614.3	1545.8	1549.2	1572.8	1579.5	1630.6	1730.1
40°	1760.4	1732.3	1650.9	1585.1	1532.9	1460.9	1457.0	1481.7	1486.8	1536.8	1626.7
42.5°	1705.9	1672.2	1580.6	1508.7	1448.6	1375.5	1367.7	1389.0	1394.6	1443.5	1531.7
45°	1650.9	1610.4	1508.7	1430.0	1364.3	1289.6	1281.7	1298.0	1306.4	1352.5	1437.3
47.5°	1592.4	1545.2	1434.5	1346.9	1278.9	1204.1	1194.6	1210.9	1217.6	1263.1	1343.5
50°	1531.2	1473.9	1358.1	1261.5	1194.0	1120.4	1106.4	1125.5	1131.7	1174.4	1253.0
52.5°	1463.7	1400.3	1276.6	1175.5	1108.1	1037.8	1021.0	1039.5	1046.8	1088.4	1160.9
55°	1392.4	1323.8	1194.6	1096.3	1023.2	954.7	940.6	947.9	963.7	1003.0	1070.4
57.5°	1312.0	1244.0	1108.1	1008.0	937.8	872.1	860.3	867.0	881.6	919.8	980.5
60°	1226.6	1154.7	1019.8	919.8	851.8	789.5	778.8	785.0	800.7	835.5	891.7
62.5°	1142.3	1061.4	928.8	829.4	767.6	709.7	706.9	704.6	719.2	752.9	802.4
65°	1040.1	962.5	833.9	739.5	683.3	631.0	619.8	624.8	638.9	669.8	721.5
67.5°	930.5	860.3	736.6	649.6	599.5	552.9	543.4	545.6	560.2	587.2	632.1
70°	814.2	752.4	637.2	559.1	516.9	473.1	466.9	467.5	481.5	505.1	544.5
72.5°	692.3	636.6	536.6	469.7	434.9	403.4	397.8	391.1	404.0	424.2	457.9
75°	568.1	519.2	436.6	382.1	354.6	328.1	323.1	316.3	329.3	346.7	373.1
77.5°	442.8	403.4	339.4	297.2	275.9	256.2	251.7	244.4	257.3	270.3	291.1
80°	320.3	291.6	253.4	209.0	201.7	188.8	184.3	176.4	188.8	197.2	213.0
82.5°	206.8	187.7	165.8	134.9	133.7	124.2	121.9	112.9	124.2	129.2	141.0
85°	104.5	95.5	89.9	68.6	70.8	64.6	64.1	54.5	63.5	65.7	72.5
87.5°	29.8	31.5	28.1	16.9	21.4	20.2	20.2	14.6	20.2	20.2	23.0
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: P837800

CATALOG NUMBER: ORLG-12-4-INS-ASY2R-LD4-3LO-35-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2408.9	2408.9	2408.9	2408.9	2408.9	2408.9	2408.9	2408.9
2.5°	2411.1	2420.7	2422.9	2422.3	2428.5	2462.2	2451.0	2462.2
5°	2416.7	2438.1	2443.7	2451.6	2461.7	2499.9	2487.5	2501.0
7.5°	2420.1	2452.1	2464.5	2479.7	2496.0	2538.7	2528.5	2542.0
10°	2420.1	2461.7	2479.7	2504.9	2526.9	2576.3	2566.8	2582.5
12.5°	2410.0	2463.4	2488.7	2524.0	2552.1	2605.5	2601.6	2612.8
15°	2389.2	2454.9	2489.8	2535.3	2570.1	2629.7	2628.0	2641.5
17.5°	2361.1	2440.3	2482.5	2539.8	2583.6	2650.5	2654.4	2661.7
20°	2325.7	2412.8	2467.9	2538.1	2593.2	2666.8	2671.8	2681.9
22.5°	2279.1	2379.6	2445.9	2530.8	2594.3	2673.5	2682.5	2692.1
25°	2224.0	2339.7	2417.3	2516.7	2588.7	2673.0	2685.3	2693.7
27.5°	2161.1	2288.1	2380.8	2494.3	2572.9	2664.0	2679.1	2689.2
30°	2088.0	2233.0	2339.2	2465.1	2551.6	2647.1	2663.4	2673.5
32.5°	2012.7	2172.3	2289.7	2427.4	2520.7	2620.1	2634.2	2642.0
35°	1930.7	2098.7	2230.2	2379.1	2480.8	2576.9	2587.5	2596.0
37.5°	1841.3	2018.9	2162.2	2324.6	2424.6	2516.7	2526.3	2535.8
40°	1749.2	1935.2	2085.8	2257.7	2357.7	2443.1	2453.3	2460.0
42.5°	1656.5	1842.5	2004.3	2179.0	2278.5	2360.5	2366.7	2373.5
45°	1562.6	1746.4	1912.7	2091.9	2190.3	2267.3	2269.5	2275.1
47.5°	1467.1	1646.9	1812.1	1992.5	2089.7	2159.9	2162.2	2166.7
50°	1371.0	1547.5	1704.8	1885.2	1980.1	2054.3	2044.2	2048.7
52.5°	1276.6	1443.0	1603.7	1769.4	1863.3	1929.0	1931.8	1922.8
55°	1183.9	1340.7	1488.5	1648.0	1737.4	1788.5	1786.8	1790.2
57.5°	1090.1	1237.3	1372.7	1518.8	1605.9	1654.2	1664.3	1652.5
60°	994.6	1132.8	1254.2	1386.2	1470.5	1510.9	1522.7	1511.5
62.5°	899.6	1026.6	1136.7	1251.9	1330.0	1380.0	1378.9	1366.5
65°	804.6	919.8	1018.2	1115.9	1183.9	1233.9	1231.7	1220.4
67.5°	717.0	811.9	900.2	979.4	1038.4	1072.7	1084.5	1071.0
70°	620.3	702.4	779.9	843.4	892.3	923.2	934.4	922.6
72.5°	523.7	593.4	647.9	709.1	746.8	772.6	784.4	773.2
75°	428.2	485.5	529.9	577.6	604.0	626.0	639.4	628.2
77.5°	335.5	379.8	415.2	450.1	480.4	485.5	497.3	490.0
80°	247.2	279.3	305.1	328.1	350.1	352.3	361.9	357.4
82.5°	164.6	186.0	192.7	216.9	230.9	228.7	238.2	234.9
85°	87.1	100.0	111.8	119.1	127.0	119.7	128.1	124.7
87.5°	29.2	30.9	27.0	38.2	42.1	36.0	41.0	39.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)