

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: P838059

Luminaire Tested: **ORLG-24-4-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: P838059
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-ASY2R-LD4-2STD-27-120-EDD
Description: 2FT 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

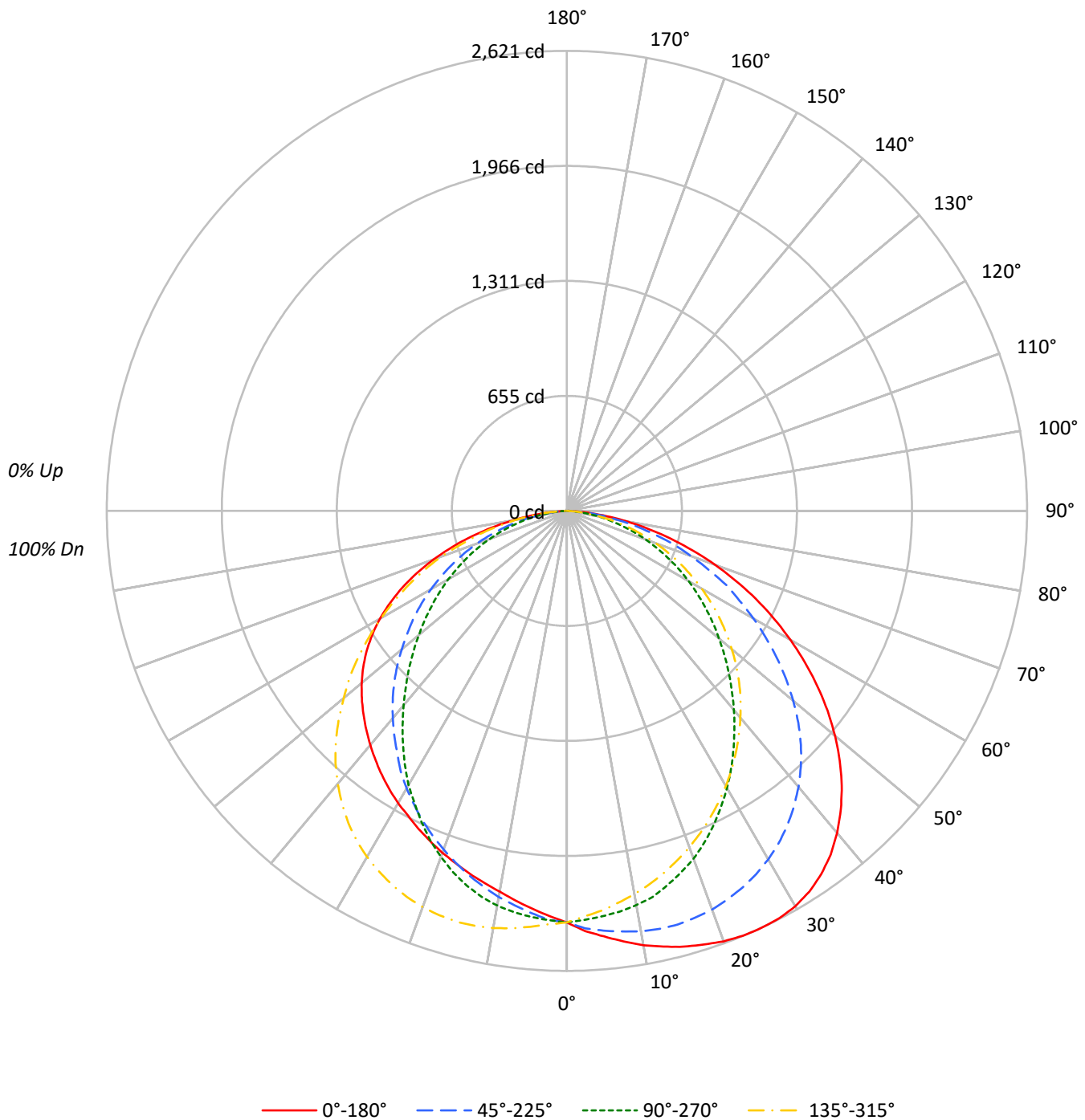
Lumens per Lamp: N/A
Luminaire Lumens: 6877.5 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
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°	3154	3154	3154	3154
5°	3287	3131	3072	3137
10°	3434	3115	3010	3120
15°	3581	3076	2981	3076
20°	3737	3020	2967	3003
25°	3892	2935	2967	2905
30°	4042	2833	2987	2802
35°	4150	2717	3017	2674
40°	4205	2600	3059	2541
45°	4213	2481	3118	2419
50°	4173	2368	3194	2305
55°	4087	2263	3266	2200
60°	3958	2153	3309	2097
65°	3781	2026	3292	1979
70°	3532	1878	3175	1843
75°	3178	1674	2914	1666
80°	2695	1402	2449	1423
85°	1874	928	1553	954

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.6	3.2
10°-20°	644.5	9.4
20°-30°	987.7	14.4
30°-40°	1201.0	17.5
40°-50°	1248.5	18.2
50°-60°	1127.8	16.4
60°-70°	857.4	12.5
70°-80°	478.0	7.0
80°-90°	110.0	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°	1854.8	27.0
0°-40°	3055.7	44.4
0°-60°	5432.0	79.0
0°-90°	6877.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6877.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2344	2344	2344	2344	2344	
5°	2434	2318	2275	2322	2434	235
15°	2570	2208	2140	2209	2570	729
25°	2621	1977	1999	1957	2621	1211
35°	2526	1654	1837	1628	2526	1578
45°	2214	1304	1639	1271	2214	1705
55°	1742	965	1392	938	1742	1555
65°	1188	636	1034	622	1188	1174
75°	611	322	560	320	611	649
85°	121	60	101	62	121	153
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°	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2
2.5°	2396.1	2361.1	2361.7	2392.3	2368.8	2380.3	2347.4	2360.0	2356.2	2358.9	2332.1
5°	2433.8	2396.1	2395.6	2421.8	2395.6	2400.5	2358.9	2367.1	2355.1	2347.4	2318.5
7.5°	2473.8	2436.0	2432.2	2455.2	2420.7	2416.9	2371.0	2371.0	2349.1	2329.9	2302.6
10°	2513.1	2474.3	2469.4	2486.9	2444.2	2431.7	2375.9	2367.1	2338.1	2309.7	2280.2
12.5°	2542.7	2503.3	2499.5	2510.4	2462.3	2439.3	2375.9	2358.9	2316.3	2276.4	2253.4
15°	2570.5	2530.1	2519.7	2525.2	2469.9	2439.3	2368.2	2342.0	2287.3	2234.8	2208.0
17.5°	2590.2	2551.4	2541.0	2540.5	2473.8	2430.0	2351.8	2315.7	2250.1	2186.7	2159.9
20°	2609.9	2571.1	2558.0	2548.1	2472.7	2417.4	2327.8	2279.1	2202.5	2131.5	2109.0
22.5°	2619.8	2579.8	2565.6	2550.9	2465.6	2394.5	2298.2	2236.4	2149.0	2064.2	2045.6
25°	2621.4	2580.4	2565.1	2543.7	2451.3	2367.1	2260.0	2185.0	2087.2	1993.1	1977.3
27.5°	2617.0	2572.2	2556.9	2531.2	2430.0	2333.8	2214.6	2126.5	2021.5	1917.7	1900.7
30°	2601.7	2556.3	2541.6	2508.2	2399.9	2292.8	2164.8	2061.5	1948.8	1838.4	1823.6
32.5°	2571.1	2526.8	2514.8	2481.4	2367.1	2245.2	2106.8	1991.5	1868.4	1762.9	1741.0
35°	2526.3	2482.0	2474.3	2439.3	2321.2	2188.3	2043.4	1914.9	1783.1	1675.4	1654.1
37.5°	2467.7	2430.6	2419.1	2384.6	2267.1	2123.8	1970.7	1831.8	1696.2	1580.3	1567.2
40°	2393.9	2358.9	2350.2	2319.6	2204.2	2052.2	1892.0	1746.0	1606.5	1498.8	1480.2
42.5°	2309.7	2276.9	2272.0	2240.3	2126.5	1972.9	1806.7	1656.8	1513.0	1409.1	1390.5
45°	2214.0	2182.3	2181.2	2151.1	2041.8	1884.8	1717.0	1566.6	1421.7	1314.0	1304.1
47.5°	2108.5	2080.1	2080.1	2052.2	1947.2	1788.1	1624.6	1472.6	1329.8	1234.7	1217.2
50°	1993.7	1966.9	1958.7	1945.0	1842.7	1682.5	1527.2	1380.7	1239.1	1148.3	1131.3
52.5°	1871.2	1848.2	1853.7	1828.5	1729.6	1572.6	1428.8	1277.3	1147.7	1065.2	1048.2
55°	1742.1	1709.3	1714.2	1704.9	1611.4	1459.4	1318.4	1192.0	1058.1	980.4	964.6
57.5°	1608.2	1565.5	1583.0	1577.5	1485.7	1343.5	1217.2	1095.3	968.9	897.3	882.0
60°	1470.9	1429.9	1447.9	1443.0	1356.6	1227.6	1112.8	999.6	880.4	815.3	800.0
62.5°	1329.8	1292.1	1308.5	1304.7	1225.4	1108.9	1008.9	905.0	791.2	732.7	718.5
65°	1187.7	1151.6	1166.3	1163.6	1090.3	1001.8	902.2	807.1	701.6	650.7	636.5
67.5°	1042.2	1008.9	1022.5	1022.5	955.3	870.5	795.1	708.1	613.5	569.8	556.7
70°	897.9	866.7	878.7	877.6	820.8	751.9	686.8	609.1	524.4	488.3	477.4
72.5°	752.4	725.1	736.0	734.9	687.3	643.0	578.5	511.3	437.4	408.5	398.6
75°	611.3	585.6	596.0	594.9	556.1	514.5	471.3	415.6	352.1	331.9	322.1
77.5°	476.8	450.6	459.3	459.3	430.9	400.8	366.4	323.2	278.3	256.5	249.3
80°	347.8	335.2	330.8	331.4	312.2	292.5	275.0	233.5	200.7	185.9	181.0
82.5°	228.6	218.2	213.8	214.9	204.0	191.9	181.0	152.0	130.1	121.4	118.7
85°	121.4	113.7	109.9	112.6	110.5	103.9	98.4	78.7	65.1	61.8	60.1
87.5°	38.3	33.4	30.6	40.5	34.4	30.6	29.5	23.5	18.0	18.0	17.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2
2.5°	2340.9	2340.9	2319.6	2314.6	2312.4	2315.2	2293.9	2290.0	2320.7	2310.3	2286.7
5°	2322.3	2321.2	2291.1	2285.7	2285.7	2282.4	2258.3	2252.8	2283.5	2274.7	2249.0
7.5°	2299.3	2296.0	2260.5	2256.7	2251.2	2249.0	2222.2	2218.4	2244.6	2239.2	2215.1
10°	2271.4	2268.2	2226.1	2223.3	2217.3	2212.9	2187.8	2185.0	2211.8	2203.1	2183.9
12.5°	2234.8	2228.8	2185.6	2182.9	2177.9	2176.3	2151.7	2150.6	2180.1	2171.4	2151.1
15°	2186.7	2181.8	2133.6	2134.7	2135.3	2135.3	2115.6	2114.5	2143.5	2139.7	2117.8
17.5°	2133.6	2127.1	2081.1	2084.4	2088.3	2092.6	2077.3	2080.1	2110.7	2105.8	2086.1
20°	2073.5	2066.9	2022.1	2031.4	2039.6	2048.3	2038.5	2046.2	2074.6	2072.4	2057.6
22.5°	2006.2	1999.7	1958.1	1972.3	1986.0	2002.4	1998.0	2006.8	2036.9	2036.3	2023.2
25°	1924.2	1925.9	1889.2	1906.7	1929.7	1952.6	1954.3	1968.5	2001.9	1998.6	1986.6
27.5°	1847.7	1849.9	1811.0	1840.6	1871.2	1900.7	1907.8	1927.5	1961.4	1958.7	1948.3
30°	1767.3	1770.0	1732.3	1772.8	1809.9	1846.0	1861.3	1888.1	1922.6	1922.6	1911.6
32.5°	1683.6	1688.5	1649.2	1703.3	1746.5	1788.6	1815.4	1843.3	1882.7	1881.6	1872.3
35°	1597.8	1603.2	1567.2	1636.0	1679.2	1730.6	1764.0	1801.2	1836.2	1836.7	1829.6
37.5°	1510.3	1516.8	1484.0	1559.5	1608.7	1669.4	1712.1	1749.2	1788.1	1790.2	1783.7
40°	1423.3	1430.4	1402.0	1474.7	1537.1	1604.9	1654.1	1697.8	1740.5	1741.6	1737.2
42.5°	1336.4	1344.1	1322.7	1393.8	1464.4	1537.1	1595.0	1644.8	1688.5	1691.3	1686.4
45°	1251.6	1258.2	1242.9	1320.5	1388.3	1467.6	1534.3	1590.7	1635.0	1638.8	1637.1
47.5°	1167.4	1173.4	1159.8	1230.9	1309.1	1393.3	1470.4	1532.7	1579.7	1584.1	1583.0
50°	1084.9	1089.8	1075.0	1149.4	1227.0	1316.7	1397.1	1469.3	1521.8	1526.1	1525.6
52.5°	1002.8	1007.8	995.2	1073.4	1143.9	1238.5	1326.0	1404.2	1456.1	1462.7	1463.8
55°	923.6	925.7	915.9	990.8	1059.2	1158.1	1258.8	1334.8	1386.7	1392.2	1395.5
57.5°	844.3	844.8	836.6	908.2	973.9	1075.0	1180.6	1260.4	1309.6	1315.1	1320.0
60°	765.5	765.0	755.7	825.1	888.0	988.1	1098.0	1177.3	1224.8	1229.8	1236.3
62.5°	687.3	685.7	677.5	741.5	800.5	899.5	1010.0	1086.5	1131.9	1135.2	1143.9
65°	609.7	608.1	600.4	659.4	713.0	807.6	915.9	988.6	1029.6	1034.0	1032.4
67.5°	533.1	529.9	523.8	576.9	625.5	713.0	816.9	886.4	920.3	924.1	934.5
70°	456.6	452.8	439.1	495.4	538.1	616.3	713.0	774.8	803.3	807.1	805.4
72.5°	381.1	377.3	362.5	414.5	450.6	518.9	605.3	656.7	681.3	684.6	684.6
75°	307.9	305.7	296.4	335.7	365.8	421.6	494.9	537.5	556.7	560.5	559.4
77.5°	237.3	235.7	226.4	260.3	283.8	325.4	384.4	417.8	432.0	436.4	445.6
80°	170.1	169.5	154.7	188.1	198.5	233.5	276.7	302.4	310.0	316.1	322.6
82.5°	108.8	109.4	94.6	123.0	127.4	149.8	176.6	192.5	197.9	202.9	207.8
85°	53.0	55.2	47.0	65.1	65.6	77.1	88.6	94.6	96.8	100.6	105.0
87.5°	13.7	15.9	8.7	18.6	16.4	21.3	24.6	26.2	25.7	28.4	30.1
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°	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2
2.5°	2294.4	2311.9	2303.2	2331.6	2342.5	2325.0	2355.6	2356.2	2334.3	2360.0	2374.2
5°	2258.9	2276.9	2271.4	2301.0	2314.6	2299.3	2336.5	2343.6	2322.3	2351.3	2374.2
7.5°	2222.8	2244.1	2237.0	2267.1	2283.5	2271.4	2311.4	2322.8	2306.4	2338.1	2368.8
10°	2191.6	2209.6	2202.0	2233.7	2247.9	2238.1	2277.5	2298.8	2283.5	2322.3	2358.9
12.5°	2161.0	2175.7	2167.0	2193.2	2206.9	2194.3	2242.5	2262.1	2251.2	2291.7	2338.7
15°	2121.6	2138.0	2126.0	2149.5	2159.9	2149.0	2188.3	2222.2	2208.6	2252.8	2304.8
17.5°	2091.5	2100.8	2084.4	2103.0	2109.0	2094.3	2134.2	2167.5	2157.7	2205.8	2266.0
20°	2058.2	2065.8	2042.9	2053.3	2052.7	2034.1	2070.8	2103.6	2097.0	2150.0	2218.4
22.5°	2021.0	2024.8	1998.0	2000.2	1999.1	1968.5	2001.3	2034.7	2031.9	2085.5	2162.1
25°	1981.6	1982.2	1947.7	1946.6	1934.6	1898.5	1927.5	1965.2	1957.0	2015.0	2095.4
27.5°	1942.8	1937.3	1895.8	1885.9	1866.8	1823.6	1849.3	1883.2	1878.3	1935.2	2024.3
30°	1901.3	1894.1	1843.3	1825.2	1797.4	1747.6	1768.9	1800.6	1803.4	1853.1	1946.6
32.5°	1861.9	1843.8	1787.5	1761.3	1726.3	1668.3	1679.8	1712.1	1716.4	1766.7	1863.0
35°	1811.0	1799.0	1729.6	1684.7	1650.3	1586.8	1598.9	1621.3	1627.8	1677.1	1774.9
37.5°	1762.9	1743.8	1670.0	1615.3	1571.0	1504.3	1507.5	1530.5	1537.1	1586.8	1683.6
40°	1713.1	1685.8	1606.5	1542.5	1491.7	1421.7	1417.9	1441.9	1446.9	1495.5	1583.0
42.5°	1660.1	1627.3	1538.2	1468.2	1409.7	1338.6	1330.9	1351.7	1357.2	1404.7	1490.6
45°	1606.5	1567.2	1468.2	1391.6	1327.6	1254.9	1247.3	1263.1	1271.3	1316.2	1398.7
47.5°	1549.7	1503.7	1396.0	1310.7	1244.5	1171.8	1162.5	1178.4	1184.9	1229.2	1307.4
50°	1490.1	1434.3	1321.6	1227.6	1162.0	1090.3	1076.7	1095.3	1101.3	1142.8	1219.4
52.5°	1424.4	1362.6	1242.3	1143.9	1078.3	1010.0	993.5	1011.6	1018.7	1059.2	1129.7
55°	1355.0	1288.3	1162.5	1066.8	995.7	929.0	915.4	922.5	937.8	976.1	1041.7
57.5°	1276.8	1210.6	1078.3	981.0	912.6	848.6	837.2	843.7	857.9	895.1	954.2
60°	1193.7	1123.7	992.5	895.1	829.0	768.3	757.9	763.9	779.2	813.1	867.8
62.5°	1111.7	1032.9	903.9	807.1	746.9	690.6	687.9	685.7	699.9	732.7	780.8
65°	1012.1	936.7	811.5	719.6	664.9	614.1	603.1	608.1	621.7	651.8	702.1
67.5°	905.5	837.2	716.9	632.1	583.4	538.1	528.8	531.0	545.2	571.4	615.2
70°	792.3	732.2	620.1	544.1	503.1	460.4	454.4	454.9	468.6	491.6	529.9
72.5°	673.7	619.5	522.2	457.1	423.2	392.6	387.1	380.6	393.2	412.8	445.6
75°	552.8	505.3	424.9	371.8	345.0	319.3	314.4	307.9	320.4	337.4	363.1
77.5°	430.9	392.6	330.3	289.3	268.5	249.3	245.0	237.9	250.4	263.0	283.2
80°	311.7	283.8	246.6	203.4	196.3	183.7	179.4	171.7	183.7	191.9	207.2
82.5°	201.2	182.6	161.3	131.2	130.1	120.8	118.7	109.9	120.8	125.8	137.2
85°	101.7	93.0	87.5	66.7	68.9	62.9	62.3	53.0	61.8	64.0	70.5
87.5°	29.0	30.6	27.3	16.4	20.8	19.7	19.7	14.2	19.7	19.7	22.4
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: P838059

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-2STD-27-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2	2344.2
2.5°	2346.4	2355.6	2357.8	2357.3	2363.3	2396.1	2385.2	2396.1
5°	2351.8	2372.6	2378.1	2385.7	2395.6	2432.7	2420.7	2433.8
7.5°	2355.1	2386.3	2398.3	2413.1	2428.9	2470.5	2460.6	2473.8
10°	2355.1	2395.6	2413.1	2437.7	2459.0	2507.1	2497.8	2513.1
12.5°	2345.3	2397.2	2421.8	2456.3	2483.6	2535.5	2531.7	2542.7
15°	2325.0	2389.0	2422.9	2467.2	2501.1	2559.1	2557.4	2570.5
17.5°	2297.7	2374.8	2415.8	2471.6	2514.2	2579.3	2583.1	2590.2
20°	2263.2	2348.0	2401.6	2469.9	2523.5	2595.1	2600.1	2609.9
22.5°	2217.9	2315.7	2380.3	2462.8	2524.6	2601.7	2610.5	2619.8
25°	2164.3	2276.9	2352.4	2449.2	2519.1	2601.2	2613.2	2621.4
27.5°	2103.0	2226.6	2316.8	2427.3	2503.8	2592.4	2607.2	2617.0
30°	2031.9	2173.0	2276.4	2398.8	2483.1	2576.0	2591.9	2601.7
32.5°	1958.7	2114.0	2228.2	2362.2	2453.0	2549.8	2563.4	2571.1
35°	1878.8	2042.3	2170.3	2315.2	2414.2	2507.7	2518.0	2526.3
37.5°	1791.9	1964.7	2104.1	2262.1	2359.5	2449.2	2458.4	2467.7
40°	1702.2	1883.2	2029.7	2197.1	2294.4	2377.5	2387.4	2393.9
42.5°	1612.0	1793.0	1950.5	2120.5	2217.3	2297.1	2303.2	2309.7
45°	1520.7	1699.5	1861.3	2035.8	2131.5	2206.4	2208.6	2214.0
47.5°	1427.7	1602.7	1763.5	1939.0	2033.6	2101.9	2104.1	2108.5
50°	1334.2	1505.9	1659.0	1834.5	1926.9	1999.1	1989.3	1993.7
52.5°	1242.3	1404.2	1560.6	1721.9	1813.2	1877.2	1879.9	1871.2
55°	1152.1	1304.7	1448.5	1603.8	1690.7	1740.5	1738.8	1742.1
57.5°	1060.8	1204.1	1335.9	1478.0	1562.8	1609.8	1619.6	1608.2
60°	967.8	1102.4	1220.5	1349.0	1431.0	1470.4	1481.8	1470.9
62.5°	875.4	999.0	1106.2	1218.3	1294.3	1343.0	1341.9	1329.8
65°	783.0	895.1	990.8	1086.0	1152.1	1200.8	1198.6	1187.7
67.5°	697.7	790.1	876.0	953.1	1010.5	1043.9	1055.3	1042.2
70°	603.7	683.5	759.0	820.8	868.3	898.4	909.3	897.9
72.5°	509.6	577.4	630.5	690.1	726.7	751.9	763.3	752.4
75°	416.7	472.4	515.6	562.1	587.8	609.1	622.3	611.3
77.5°	326.4	369.6	404.1	438.0	467.5	472.4	483.9	476.8
80°	240.6	271.8	296.9	319.3	340.7	342.8	352.1	347.8
82.5°	160.2	181.0	187.6	211.1	224.7	222.6	231.8	228.6
85°	84.8	97.3	108.8	115.9	123.6	116.5	124.7	121.4
87.5°	28.4	30.1	26.2	37.2	41.0	35.0	39.9	38.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)