

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: P838030

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-4HI-50-120-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: P838030
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-ASY2R-LD4-4HI-50-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

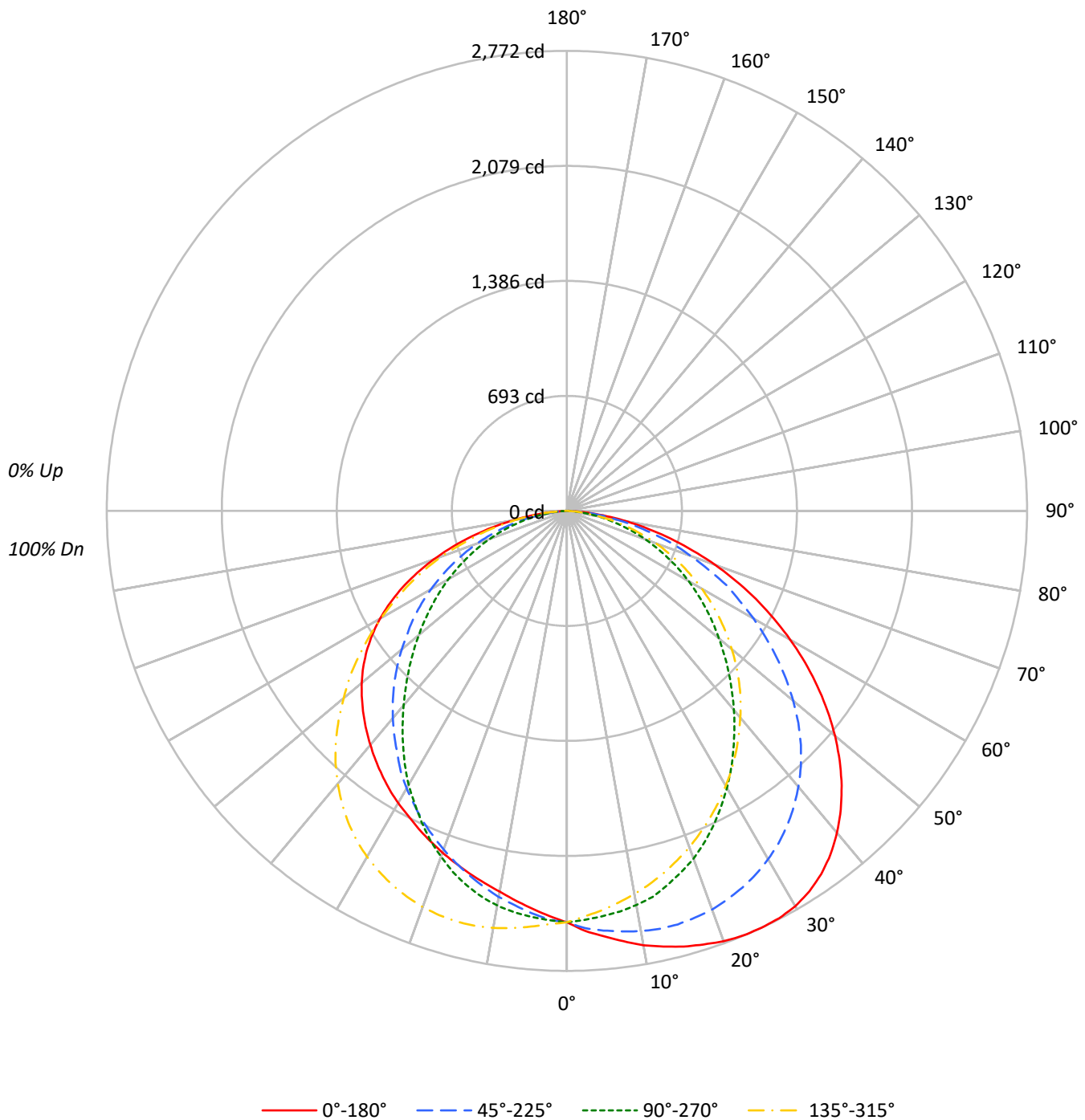
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7272.5 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 88
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°	6670	6670	6670	6670
5°	6952	6622	6498	6633
10°	7262	6589	6366	6598
15°	7573	6505	6303	6506
20°	7903	6387	6275	6350
25°	8231	6208	6275	6144
30°	8548	5992	6317	5925
35°	8775	5746	6380	5655
40°	8892	5498	6469	5375
45°	8910	5248	6595	5116
50°	8826	5008	6756	4875
55°	8643	4785	6906	4652
60°	8371	4553	6999	4435
65°	7997	4285	6962	4186
70°	7470	3972	6714	3899
75°	6721	3541	6162	3523
80°	5698	2966	5179	3011
85°	3964	1964	3285	2016

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.3	3.2
10°-20°	681.5	9.4
20°-30°	1044.4	14.4
30°-40°	1270.0	17.5
40°-50°	1320.2	18.2
50°-60°	1192.5	16.4
60°-70°	906.6	12.5
70°-80°	505.4	7.0
80°-90°	116.4	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°	1961.3	27.0
0°-40°	3231.3	44.4
0°-60°	5744.0	79.0
0°-90°	7272.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7272.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2479	2479	2479	2479	2479	
5°	2574	2452	2405	2456	2574	248
15°	2718	2335	2263	2335	2718	771
25°	2772	2091	2113	2069	2772	1280
35°	2671	1749	1942	1721	2671	1668
45°	2341	1379	1733	1344	2341	1802
55°	1842	1020	1472	992	1842	1644
65°	1256	673	1093	657	1256	1241
75°	646	341	593	339	646	687
85°	128	64	106	65	128	162
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°	2478.8	2478.8	2478.8	2478.8	2478.8	2478.8	2478.8	2478.8	2478.8	2478.8	2478.8
2.5°	2533.7	2496.7	2497.3	2529.7	2504.8	2517.0	2482.3	2495.6	2491.5	2494.4	2466.1
5°	2573.6	2533.7	2533.2	2560.9	2533.2	2538.4	2494.4	2503.1	2490.4	2482.3	2451.6
7.5°	2615.8	2575.9	2571.9	2596.2	2559.8	2555.7	2507.1	2507.1	2484.0	2463.8	2434.9
10°	2657.5	2616.4	2611.2	2629.7	2584.6	2571.3	2512.3	2503.1	2472.4	2442.4	2411.2
12.5°	2688.7	2647.1	2643.0	2654.6	2603.7	2579.4	2512.3	2494.4	2449.3	2407.1	2382.8
15°	2718.2	2675.4	2664.4	2670.2	2611.8	2579.4	2504.2	2476.5	2418.7	2363.2	2334.8
17.5°	2739.0	2697.9	2687.0	2686.4	2615.8	2569.6	2486.9	2448.7	2379.3	2312.3	2283.9
20°	2759.8	2718.8	2704.9	2694.5	2614.7	2556.3	2461.5	2410.0	2329.0	2253.9	2230.2
22.5°	2770.2	2728.0	2713.0	2697.4	2607.2	2532.0	2430.2	2364.9	2272.4	2182.8	2163.1
25°	2772.0	2728.6	2712.4	2689.9	2592.1	2503.1	2389.8	2310.5	2207.0	2107.6	2090.8
27.5°	2767.3	2719.9	2703.7	2676.6	2569.6	2467.8	2341.8	2248.7	2137.7	2027.8	2009.9
30°	2751.1	2703.1	2687.5	2652.3	2537.8	2424.5	2289.1	2179.9	2060.8	1944.0	1928.3
32.5°	2718.8	2671.9	2659.2	2623.9	2503.1	2374.1	2227.9	2105.9	1975.8	1864.2	1841.0
35°	2671.3	2624.5	2616.4	2579.4	2454.5	2314.0	2160.8	2024.9	1885.6	1771.6	1749.1
37.5°	2609.5	2570.2	2558.0	2521.6	2397.3	2245.8	2083.9	1937.0	1793.6	1671.0	1657.2
40°	2531.4	2494.4	2485.2	2452.8	2330.8	2170.0	2000.6	1846.2	1698.8	1584.9	1565.2
42.5°	2442.4	2407.7	2402.5	2368.9	2248.7	2086.2	1910.4	1752.0	1599.9	1490.1	1470.4
45°	2341.2	2307.7	2306.5	2274.7	2159.1	1993.1	1815.6	1656.6	1503.4	1389.4	1379.0
47.5°	2229.6	2199.5	2199.5	2170.0	2059.0	1890.8	1717.9	1557.1	1406.2	1305.6	1287.1
50°	2108.2	2079.8	2071.2	2056.7	1948.6	1779.2	1615.0	1460.0	1310.2	1214.2	1196.3
52.5°	1978.6	1954.4	1960.1	1933.5	1828.9	1662.9	1510.9	1350.7	1213.7	1126.4	1108.4
55°	1842.2	1807.5	1812.7	1802.9	1704.0	1543.3	1394.1	1260.5	1118.8	1036.7	1020.0
57.5°	1700.5	1655.4	1673.9	1668.1	1571.0	1420.7	1287.1	1158.2	1024.6	948.8	932.7
60°	1555.4	1512.0	1531.1	1525.9	1434.5	1298.1	1176.7	1057.0	930.9	862.1	845.9
62.5°	1406.2	1366.3	1383.7	1379.6	1295.8	1172.6	1066.8	956.9	836.7	774.8	759.8
65°	1255.9	1217.7	1233.3	1230.4	1153.0	1059.3	954.1	853.4	741.8	688.1	673.0
67.5°	1102.1	1066.8	1081.3	1081.3	1010.1	920.5	840.7	748.8	648.8	602.5	588.6
70°	949.4	916.5	929.2	928.0	867.9	795.0	726.2	644.1	554.5	516.3	504.8
72.5°	795.6	766.7	778.3	777.1	726.8	680.0	611.8	540.6	462.6	431.9	421.5
75°	646.4	619.3	630.3	629.1	588.0	544.1	498.4	439.4	372.4	351.0	340.6
77.5°	504.2	476.4	485.7	485.7	455.6	423.8	387.4	341.7	294.3	271.2	263.7
80°	367.7	354.4	349.8	350.4	330.2	309.3	290.8	246.9	212.2	196.6	191.4
82.5°	241.7	230.7	226.1	227.2	215.7	203.0	191.4	160.7	137.6	128.4	125.5
85°	128.4	120.3	116.2	119.1	116.8	109.9	104.1	83.3	68.8	65.3	63.6
87.5°	40.5	35.3	32.4	42.8	36.4	32.4	31.2	24.9	19.1	19.1	18.5
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°	2478.8	2478.8	2478.8	2478.8	2478.8	2478.8	2478.8	2478.8	2478.8	2478.8	2478.8
2.5°	2475.3	2475.3	2452.8	2447.6	2445.3	2448.2	2425.6	2421.6	2453.9	2443.0	2418.1
5°	2455.7	2454.5	2422.7	2416.9	2416.9	2413.5	2388.0	2382.2	2414.6	2405.4	2378.2
7.5°	2431.4	2427.9	2390.3	2386.3	2380.5	2378.2	2349.9	2345.8	2373.6	2367.8	2342.3
10°	2401.9	2398.4	2353.9	2351.0	2344.7	2340.0	2313.4	2310.5	2338.9	2329.6	2309.4
12.5°	2363.2	2356.8	2311.1	2308.2	2303.0	2301.3	2275.3	2274.1	2305.3	2296.1	2274.7
15°	2312.3	2307.1	2256.2	2257.3	2257.9	2257.9	2237.1	2236.0	2266.6	2262.6	2239.4
17.5°	2256.2	2249.3	2200.7	2204.2	2208.2	2212.8	2196.6	2199.5	2231.9	2226.7	2205.9
20°	2192.6	2185.6	2138.2	2148.1	2156.7	2166.0	2155.6	2163.7	2193.7	2191.4	2175.8
22.5°	2121.5	2114.5	2070.6	2085.6	2100.1	2117.4	2112.8	2122.0	2153.8	2153.3	2139.4
25°	2034.7	2036.5	1997.7	2016.2	2040.5	2064.8	2066.5	2081.6	2116.8	2113.4	2100.7
27.5°	1953.8	1956.1	1915.0	1946.3	1978.6	2009.9	2017.4	2038.2	2074.1	2071.2	2060.2
30°	1868.8	1871.7	1831.8	1874.6	1913.9	1952.0	1968.2	1996.6	2033.0	2033.0	2021.4
32.5°	1780.3	1785.5	1743.9	1801.1	1846.8	1891.3	1919.7	1949.2	1990.8	1989.6	1979.8
35°	1689.5	1695.3	1657.2	1730.0	1775.7	1830.0	1865.3	1904.6	1941.6	1942.2	1934.7
37.5°	1597.0	1604.0	1569.3	1649.1	1701.1	1765.3	1810.4	1849.7	1890.8	1893.1	1886.1
40°	1505.1	1512.6	1482.5	1559.4	1625.4	1697.1	1749.1	1795.4	1840.5	1841.6	1837.0
42.5°	1413.2	1421.2	1398.7	1473.9	1548.5	1625.4	1686.6	1739.3	1785.5	1788.4	1783.2
45°	1323.5	1330.5	1314.3	1396.4	1468.1	1551.9	1622.5	1682.0	1728.9	1732.9	1731.2
47.5°	1234.5	1240.8	1226.4	1301.6	1384.2	1473.3	1554.8	1620.7	1670.5	1675.1	1673.9
50°	1147.2	1152.4	1136.8	1215.4	1297.5	1392.3	1477.3	1553.7	1609.2	1613.8	1613.2
52.5°	1060.4	1065.6	1052.3	1135.0	1209.6	1309.7	1402.2	1484.9	1539.8	1546.7	1547.9
55°	976.6	978.9	968.5	1047.7	1120.0	1224.7	1331.0	1411.4	1466.3	1472.1	1475.6
57.5°	892.8	893.3	884.7	960.4	1029.8	1136.8	1248.4	1332.8	1384.8	1390.6	1395.8
60°	809.5	808.9	799.1	872.5	939.0	1044.8	1161.1	1244.9	1295.2	1300.4	1307.3
62.5°	726.8	725.1	716.4	784.1	846.5	951.2	1068.0	1148.9	1196.9	1200.4	1209.6
65°	644.7	643.0	634.9	697.3	754.0	854.0	968.5	1045.4	1088.8	1093.4	1091.7
67.5°	563.8	560.3	553.9	610.0	661.5	754.0	863.9	937.3	973.1	977.2	988.2
70°	482.8	478.8	464.3	523.9	569.0	651.6	754.0	819.3	849.4	853.4	851.7
72.5°	403.0	399.0	383.4	438.3	476.4	548.7	640.1	694.4	720.5	723.9	723.9
75°	325.5	323.2	313.4	355.0	386.8	445.8	523.3	568.4	588.6	592.7	591.5
77.5°	250.9	249.2	239.4	275.2	300.1	344.0	406.5	441.8	456.8	461.4	471.2
80°	179.8	179.2	163.6	198.9	209.9	246.9	292.6	319.8	327.8	334.2	341.1
82.5°	115.1	115.6	100.0	130.1	134.7	158.4	186.8	203.5	209.3	214.5	219.7
85°	56.1	58.4	49.7	68.8	69.4	81.5	93.7	100.0	102.3	106.4	111.0
87.5°	14.5	16.8	9.3	19.7	17.3	22.6	26.0	27.8	27.2	30.1	31.8
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2478.8	2478.8	2478.8	2478.8	2478.8	2478.8	2478.8	2478.8	2478.8	2478.8	2478.8
2.5°	2426.2	2444.7	2435.4	2465.5	2477.1	2458.6	2490.9	2491.5	2468.4	2495.6	2510.6
5°	2388.6	2407.7	2401.9	2433.1	2447.6	2431.4	2470.7	2478.2	2455.7	2486.3	2510.6
7.5°	2350.4	2373.0	2365.5	2397.3	2414.6	2401.9	2444.1	2456.3	2438.9	2472.4	2504.8
10°	2317.5	2336.6	2328.5	2362.0	2377.0	2366.6	2408.3	2430.8	2414.6	2455.7	2494.4
12.5°	2285.1	2300.7	2291.5	2319.2	2333.7	2320.4	2371.3	2392.1	2380.5	2423.3	2473.0
15°	2243.5	2260.8	2248.1	2273.0	2283.9	2272.4	2314.0	2349.9	2335.4	2382.2	2437.2
17.5°	2211.7	2221.5	2204.2	2223.8	2230.2	2214.6	2256.8	2292.0	2281.6	2332.5	2396.1
20°	2176.4	2184.5	2160.2	2171.2	2170.6	2151.0	2189.7	2224.4	2217.4	2273.5	2345.8
22.5°	2137.1	2141.1	2112.8	2115.1	2113.9	2081.6	2116.3	2151.5	2148.6	2205.3	2286.3
25°	2095.4	2096.0	2059.6	2058.4	2045.7	2007.6	2038.2	2078.1	2069.4	2130.7	2215.7
27.5°	2054.4	2048.6	2004.7	1994.3	1974.0	1928.3	1955.5	1991.4	1986.2	2046.3	2140.5
30°	2010.4	2002.9	1949.2	1930.1	1900.6	1848.0	1870.5	1904.1	1906.9	1959.6	2058.4
32.5°	1968.8	1949.7	1890.2	1862.4	1825.4	1764.1	1776.3	1810.4	1815.0	1868.2	1970.0
35°	1915.0	1902.3	1828.9	1781.5	1745.0	1678.0	1690.7	1714.4	1721.3	1773.4	1876.9
37.5°	1864.2	1843.9	1765.9	1708.0	1661.2	1590.7	1594.1	1618.4	1625.4	1678.0	1780.3
40°	1811.5	1782.6	1698.8	1631.1	1577.4	1503.4	1499.3	1524.7	1530.0	1581.4	1673.9
42.5°	1755.5	1720.8	1626.5	1552.5	1490.6	1415.5	1407.4	1429.3	1435.1	1485.4	1576.2
45°	1698.8	1657.2	1552.5	1471.6	1403.9	1327.0	1318.9	1335.7	1344.3	1391.8	1479.1
47.5°	1638.7	1590.1	1476.2	1386.0	1316.0	1239.1	1229.3	1246.1	1253.0	1299.8	1382.5
50°	1575.6	1516.7	1397.5	1298.1	1228.7	1153.0	1138.5	1158.2	1164.5	1208.5	1289.4
52.5°	1506.2	1440.9	1313.7	1209.6	1140.2	1068.0	1050.6	1069.7	1077.2	1120.0	1194.6
55°	1432.8	1362.3	1229.3	1128.1	1052.9	982.4	967.9	975.4	991.6	1032.1	1101.5
57.5°	1350.1	1280.2	1140.2	1037.3	965.0	897.4	885.2	892.2	907.2	946.5	1009.0
60°	1262.2	1188.2	1049.5	946.5	876.6	812.4	801.4	807.8	824.0	859.8	917.6
62.5°	1175.5	1092.2	955.8	853.4	789.8	730.3	727.4	725.1	740.1	774.8	825.7
65°	1070.3	990.5	858.1	760.9	703.1	649.3	637.8	643.0	657.4	689.2	742.4
67.5°	957.5	885.2	758.0	668.4	617.0	569.0	559.1	561.4	576.5	604.2	650.5
70°	837.8	774.2	655.7	575.3	532.0	486.9	480.5	481.1	495.5	519.8	560.3
72.5°	712.4	655.1	552.2	483.4	447.5	415.2	409.4	402.4	415.7	436.6	471.2
75°	584.6	534.3	449.3	393.2	364.9	337.7	332.5	325.5	338.8	356.8	383.9
77.5°	455.6	415.2	349.2	305.9	283.9	263.7	259.0	251.5	264.8	278.1	299.5
80°	329.6	300.1	260.8	215.1	207.6	194.3	189.7	181.6	194.3	203.0	219.1
82.5°	212.8	193.1	170.6	138.8	137.6	127.8	125.5	116.2	127.8	133.0	145.1
85°	107.5	98.3	92.5	70.5	72.9	66.5	65.9	56.1	65.3	67.7	74.6
87.5°	30.6	32.4	28.9	17.3	22.0	20.8	20.8	15.0	20.8	20.8	23.7
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: P838030

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-4HI-50-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2478.8	2478.8	2478.8	2478.8	2478.8	2478.8	2478.8	2478.8
2.5°	2481.1	2490.9	2493.3	2492.7	2499.0	2533.7	2522.2	2533.7
5°	2486.9	2508.9	2514.7	2522.7	2533.2	2572.5	2559.8	2573.6
7.5°	2490.4	2523.3	2536.0	2551.7	2568.4	2612.4	2602.0	2615.8
10°	2490.4	2533.2	2551.7	2577.7	2600.2	2651.1	2641.3	2657.5
12.5°	2480.0	2534.9	2560.9	2597.3	2626.2	2681.2	2677.1	2688.7
15°	2458.6	2526.2	2562.1	2608.9	2644.7	2706.0	2704.3	2718.2
17.5°	2429.7	2511.2	2554.5	2613.5	2658.6	2727.4	2731.5	2739.0
20°	2393.2	2482.8	2539.5	2611.8	2668.5	2744.2	2749.4	2759.8
22.5°	2345.2	2448.7	2517.0	2604.3	2669.6	2751.1	2760.4	2770.2
25°	2288.6	2407.7	2487.5	2589.8	2663.8	2750.6	2763.3	2772.0
27.5°	2223.8	2354.5	2449.9	2566.7	2647.6	2741.3	2756.9	2767.3
30°	2148.6	2297.8	2407.1	2536.6	2625.7	2724.0	2740.7	2751.1
32.5°	2071.2	2235.4	2356.2	2497.9	2593.9	2696.2	2710.7	2718.8
35°	1986.7	2159.6	2294.9	2448.2	2552.8	2651.7	2662.7	2671.3
37.5°	1894.8	2077.5	2225.0	2392.1	2495.0	2589.8	2599.6	2609.5
40°	1800.0	1991.4	2146.3	2323.3	2426.2	2514.1	2524.5	2531.4
42.5°	1704.6	1896.0	2062.5	2242.3	2344.7	2429.1	2435.4	2442.4
45°	1608.0	1797.1	1968.2	2152.7	2253.9	2333.1	2335.4	2341.2
47.5°	1509.7	1694.7	1864.7	2050.3	2150.4	2222.7	2225.0	2229.6
50°	1410.8	1592.4	1754.3	1939.9	2037.6	2113.9	2103.5	2108.2
52.5°	1313.7	1484.9	1650.2	1820.8	1917.4	1985.0	1987.9	1978.6
55°	1218.3	1379.6	1531.7	1695.9	1787.8	1840.5	1838.7	1842.2
57.5°	1121.7	1273.2	1412.6	1562.9	1652.5	1702.3	1712.7	1700.5
60°	1023.4	1165.7	1290.6	1426.5	1513.2	1554.8	1567.0	1555.4
62.5°	925.7	1056.4	1169.7	1288.3	1368.6	1420.1	1418.9	1406.2
65°	828.0	946.5	1047.7	1148.3	1218.3	1269.8	1267.4	1255.9
67.5°	737.8	835.5	926.3	1007.8	1068.5	1103.8	1116.0	1102.1
70°	638.3	722.8	802.6	867.9	918.2	950.0	961.6	949.4
72.5°	538.9	610.6	666.7	729.7	768.4	795.0	807.2	795.6
75°	440.6	499.6	545.3	594.4	621.6	644.1	658.0	646.4
77.5°	345.2	390.9	427.3	463.1	494.4	499.6	511.7	504.2
80°	254.4	287.4	314.0	337.7	360.2	362.5	372.4	367.7
82.5°	169.4	191.4	198.3	223.2	237.6	235.3	245.2	241.7
85°	89.6	102.9	115.1	122.6	130.7	123.2	131.8	128.4
87.5°	30.1	31.8	27.8	39.3	43.4	37.0	42.2	40.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)