

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: P837963

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-6STD-27-120-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: P837963
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-LD4-6STD-27-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

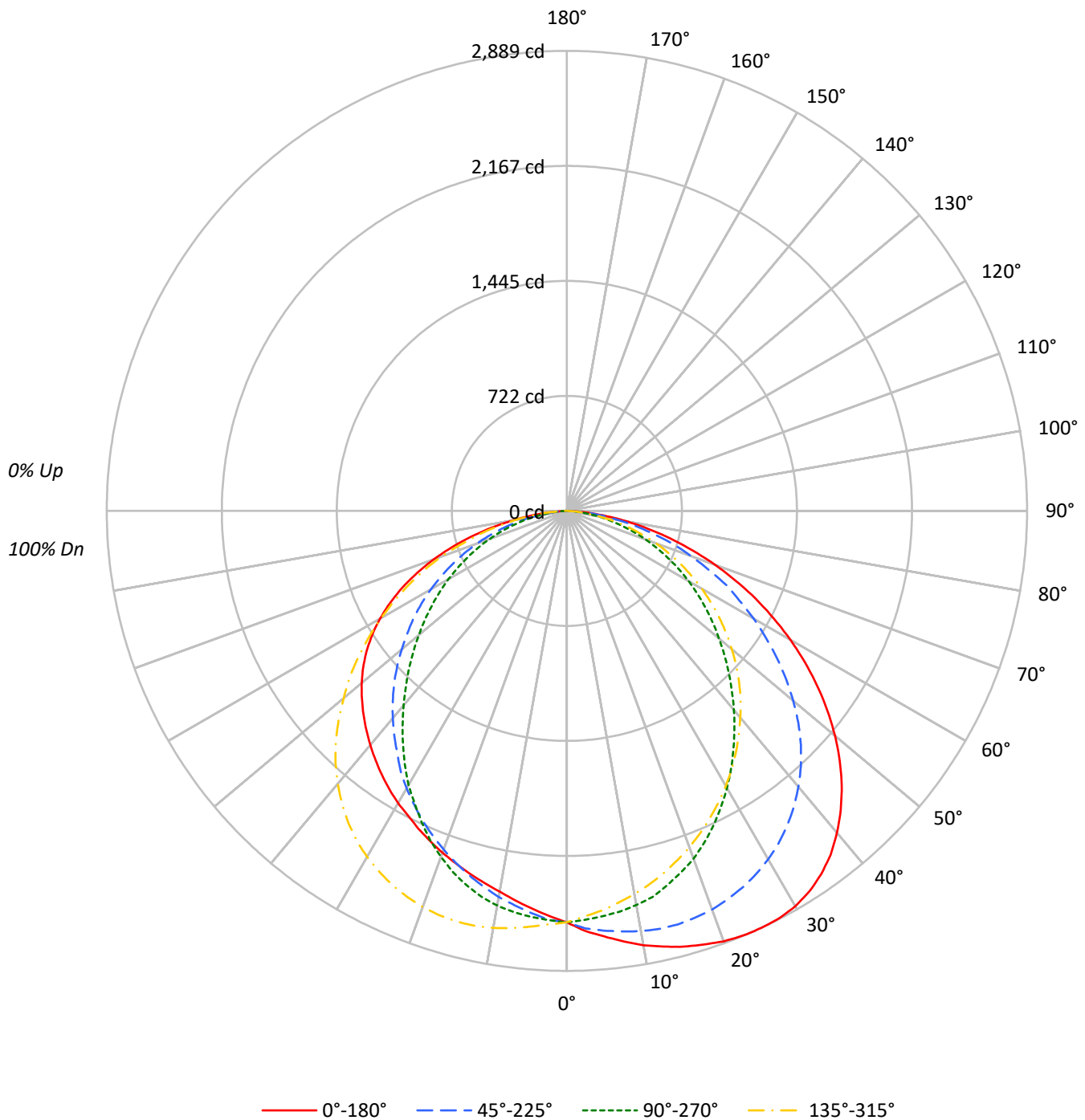
Lumens per Lamp: N/A
Luminaire Lumens: 7580.2 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	6953	6953	6953	6953
5°	7246	6903	6772	6914
10°	7569	6867	6635	6877
15°	7893	6780	6570	6781
20°	8238	6657	6541	6619
25°	8579	6471	6540	6404
30°	8910	6245	6584	6176
35°	9147	5989	6650	5894
40°	9269	5731	6743	5602
45°	9286	5470	6874	5332
50°	9199	5220	7042	5081
55°	9008	4988	7199	4849
60°	8725	4745	7295	4622
65°	8335	4467	7257	4363
70°	7786	4139	6999	4064
75°	7006	3691	6422	3672
80°	5940	3092	5398	3138
85°	4131	2047	3424	2103

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.3	3.2
10°-20°	710.3	9.4
20°-30°	1088.6	14.4
30°-40°	1323.7	17.5
40°-50°	1376.1	18.2
50°-60°	1243.0	16.4
60°-70°	945.0	12.5
70°-80°	526.8	7.0
80°-90°	121.3	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°	2044.3	27.0
0°-40°	3368.0	44.4
0°-60°	5987.0	79.0
0°-90°	7580.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7580.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2584	2584	2584	2584	2584	
5°	2682	2555	2507	2560	2682	259
15°	2833	2434	2358	2434	2833	803
25°	2889	2179	2203	2157	2889	1334
35°	2784	1823	2024	1794	2784	1739
45°	2440	1437	1806	1401	2440	1879
55°	1920	1063	1534	1034	1920	1714
65°	1309	702	1140	685	1309	1294
75°	674	355	618	353	674	716
85°	134	66	111	68	134	168
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°	2583.7	2583.7	2583.7	2583.7	2583.7	2583.7	2583.7	2583.7	2583.7	2583.7	2583.7
2.5°	2640.9	2602.4	2603.0	2636.7	2610.8	2623.5	2587.3	2601.2	2596.9	2600.0	2570.4
5°	2682.5	2640.9	2640.3	2669.3	2640.3	2645.8	2600.0	2609.0	2595.7	2587.3	2555.4
7.5°	2726.5	2684.9	2680.7	2706.0	2668.1	2663.8	2613.2	2613.2	2589.1	2568.0	2537.9
10°	2769.9	2727.1	2721.7	2741.0	2694.0	2680.1	2618.6	2609.0	2577.0	2545.7	2513.2
12.5°	2802.5	2759.1	2754.8	2766.9	2713.9	2688.5	2618.6	2600.0	2552.9	2508.9	2483.6
15°	2833.2	2788.6	2777.1	2783.2	2722.3	2688.5	2610.2	2581.3	2521.0	2463.1	2433.6
17.5°	2854.9	2812.1	2800.6	2800.0	2726.5	2678.3	2592.1	2552.3	2480.0	2410.1	2380.6
20°	2876.6	2833.8	2819.3	2808.5	2725.3	2664.4	2565.6	2512.0	2427.6	2349.2	2324.5
22.5°	2887.4	2843.4	2827.8	2811.5	2717.5	2639.1	2533.1	2465.0	2368.5	2275.1	2254.6
25°	2889.2	2844.0	2827.2	2803.7	2701.8	2609.0	2490.9	2408.3	2300.4	2196.8	2179.3
27.5°	2884.4	2835.0	2818.1	2789.8	2678.3	2572.2	2440.8	2343.8	2228.1	2113.6	2094.9
30°	2867.5	2817.5	2801.2	2764.5	2645.2	2527.0	2386.0	2272.1	2147.9	2026.2	2009.9
32.5°	2833.8	2785.0	2771.7	2735.0	2609.0	2474.6	2322.1	2195.0	2059.3	1943.0	1918.9
35°	2784.4	2735.6	2727.1	2688.5	2558.4	2411.9	2252.2	2110.6	1965.3	1846.6	1823.1
37.5°	2719.9	2678.9	2666.2	2628.3	2498.7	2340.8	2172.1	2019.0	1869.5	1741.7	1727.3
40°	2638.5	2600.0	2590.3	2556.6	2429.4	2261.8	2085.3	1924.3	1770.7	1651.9	1631.4
42.5°	2545.7	2509.5	2504.1	2469.2	2343.8	2174.5	1991.2	1826.1	1667.6	1553.1	1532.6
45°	2440.2	2405.3	2404.1	2370.9	2250.4	2077.4	1892.4	1726.7	1567.0	1448.2	1437.4
47.5°	2323.9	2292.6	2292.6	2261.8	2146.1	1970.8	1790.6	1623.0	1465.7	1360.8	1341.6
50°	2197.4	2167.8	2158.8	2143.7	2031.0	1854.4	1683.3	1521.8	1365.7	1265.6	1246.9
52.5°	2062.4	2037.1	2043.1	2015.4	1906.3	1733.3	1574.8	1407.9	1265.0	1174.0	1155.3
55°	1920.1	1884.0	1889.4	1879.1	1776.1	1608.5	1453.1	1313.8	1166.2	1080.6	1063.1
57.5°	1772.5	1725.5	1744.8	1738.7	1637.5	1480.8	1341.6	1207.2	1067.9	989.0	972.1
60°	1621.2	1576.0	1595.9	1590.5	1495.2	1353.0	1226.4	1101.7	970.3	898.6	881.7
62.5°	1465.7	1424.1	1442.2	1438.0	1350.6	1222.2	1111.9	997.4	872.1	807.6	791.9
65°	1309.0	1269.2	1285.5	1282.5	1201.7	1104.1	994.4	889.6	773.2	717.2	701.5
67.5°	1148.7	1111.9	1127.0	1127.0	1052.9	959.5	876.3	780.5	676.2	628.0	613.5
70°	989.6	955.2	968.5	967.3	904.6	828.7	757.0	671.4	578.0	538.2	526.1
72.5°	829.3	799.2	811.2	810.0	757.6	708.7	637.6	563.5	482.1	450.2	439.4
75°	673.8	645.5	656.9	655.7	612.9	567.1	519.5	458.0	388.1	365.8	355.0
77.5°	525.5	496.6	506.2	506.2	474.9	441.8	403.8	356.2	306.8	282.7	274.8
80°	383.3	369.4	364.6	365.2	344.1	322.4	303.1	257.3	221.2	204.9	199.5
82.5°	251.9	240.5	235.6	236.9	224.8	211.5	199.5	167.5	143.4	133.8	130.8
85°	133.8	125.4	121.1	124.2	121.7	114.5	108.5	86.8	71.7	68.1	66.3
87.5°	42.2	36.8	33.7	44.6	38.0	33.7	32.5	25.9	19.9	19.9	19.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2583.7	2583.7	2583.7	2583.7	2583.7	2583.7	2583.7	2583.7	2583.7	2583.7	2583.7
2.5°	2580.1	2580.1	2556.6	2551.1	2548.7	2551.7	2528.2	2524.0	2557.8	2546.3	2520.4
5°	2559.6	2558.4	2525.2	2519.2	2519.2	2515.6	2489.1	2483.0	2516.8	2507.1	2478.8
7.5°	2534.3	2530.6	2491.5	2487.3	2481.2	2478.8	2449.3	2445.1	2474.0	2468.0	2441.4
10°	2503.5	2499.9	2453.5	2450.5	2443.9	2439.0	2411.3	2408.3	2437.8	2428.2	2407.1
12.5°	2463.1	2456.5	2408.9	2405.9	2400.5	2398.7	2371.5	2370.3	2402.9	2393.2	2370.9
15°	2410.1	2404.7	2351.6	2352.9	2353.5	2353.5	2331.8	2330.6	2362.5	2358.3	2334.2
17.5°	2351.6	2344.4	2293.8	2297.4	2301.6	2306.4	2289.6	2292.6	2326.3	2320.9	2299.2
20°	2285.4	2278.1	2228.7	2238.9	2248.0	2257.6	2246.8	2255.2	2286.6	2284.1	2267.9
22.5°	2211.2	2204.0	2158.2	2173.9	2188.9	2207.0	2202.2	2211.8	2245.0	2244.4	2229.9
25°	2120.8	2122.6	2082.3	2101.5	2126.8	2152.2	2154.0	2169.6	2206.4	2202.8	2189.5
27.5°	2036.4	2038.9	1996.1	2028.6	2062.4	2094.9	2102.7	2124.4	2161.8	2158.8	2147.3
30°	1947.9	1950.9	1909.3	1953.9	1994.9	2034.6	2051.5	2081.0	2119.0	2119.0	2107.0
32.5°	1855.6	1861.1	1817.7	1877.3	1925.0	1971.4	2000.9	2031.6	2075.0	2073.8	2063.6
35°	1761.0	1767.1	1727.3	1803.2	1850.8	1907.5	1944.2	1985.2	2023.8	2024.4	2016.6
37.5°	1664.6	1671.8	1635.7	1718.8	1773.1	1840.0	1887.0	1928.0	1970.8	1973.2	1965.9
40°	1568.8	1576.6	1545.3	1625.4	1694.1	1768.9	1823.1	1871.3	1918.3	1919.5	1914.7
42.5°	1472.9	1481.4	1457.9	1536.2	1614.0	1694.1	1758.0	1812.9	1861.1	1864.1	1858.7
45°	1379.5	1386.8	1369.9	1455.5	1530.2	1617.6	1691.1	1753.2	1802.0	1806.2	1804.4
47.5°	1286.7	1293.3	1278.3	1356.6	1442.8	1535.6	1620.6	1689.3	1741.1	1746.0	1744.8
50°	1195.7	1201.1	1184.9	1266.8	1352.4	1451.2	1539.8	1619.4	1677.3	1682.1	1681.5
52.5°	1105.3	1110.7	1096.9	1183.1	1260.8	1365.1	1461.5	1547.7	1604.9	1612.2	1613.4
55°	1017.9	1020.3	1009.5	1092.1	1167.4	1276.5	1387.4	1471.1	1528.4	1534.4	1538.0
57.5°	930.5	931.1	922.1	1001.0	1073.4	1184.9	1301.2	1389.2	1443.4	1449.4	1454.9
60°	843.7	843.1	832.9	909.4	978.7	1089.0	1210.2	1297.6	1350.0	1355.4	1362.7
62.5°	757.6	755.8	746.7	817.2	882.3	991.4	1113.1	1197.5	1247.5	1251.2	1260.8
65°	672.0	670.2	661.7	726.8	785.9	890.2	1009.5	1089.6	1134.8	1139.7	1137.9
67.5°	587.6	584.0	577.4	635.8	689.5	785.9	900.4	976.9	1014.3	1018.5	1030.0
70°	503.2	499.0	484.0	546.0	593.0	679.2	785.9	854.0	885.3	889.6	887.7
72.5°	420.1	415.8	399.6	456.8	496.6	571.9	667.2	723.8	750.9	754.6	754.6
75°	339.3	336.9	326.7	370.0	403.2	464.7	545.4	592.4	613.5	617.7	616.5
77.5°	261.6	259.8	249.5	286.9	312.8	358.6	423.7	460.4	476.1	480.9	491.2
80°	187.4	186.8	170.6	207.3	218.8	257.3	305.0	333.3	341.7	348.3	355.6
82.5°	119.9	120.5	104.3	135.6	140.4	165.1	194.7	212.1	218.2	223.6	229.0
85°	58.5	60.9	51.8	71.7	72.3	85.0	97.6	104.3	106.7	110.9	115.7
87.5°	15.1	17.5	9.6	20.5	18.1	23.5	27.1	28.9	28.3	31.3	33.1
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°	2583.7	2583.7	2583.7	2583.7	2583.7	2583.7	2583.7	2583.7	2583.7	2583.7	2583.7
2.5°	2528.8	2548.1	2538.5	2569.8	2581.9	2562.6	2596.3	2596.9	2572.8	2601.2	2616.8
5°	2489.7	2509.5	2503.5	2536.1	2551.1	2534.3	2575.2	2583.1	2559.6	2591.5	2616.8
7.5°	2449.9	2473.4	2465.6	2498.7	2516.8	2503.5	2547.5	2560.2	2542.1	2577.0	2610.8
10°	2415.5	2435.4	2427.0	2461.9	2477.6	2466.8	2510.2	2533.7	2516.8	2559.6	2600.0
12.5°	2381.8	2398.1	2388.4	2417.3	2432.4	2418.5	2471.6	2493.3	2481.2	2525.8	2577.7
15°	2338.4	2356.5	2343.2	2369.1	2380.6	2368.5	2411.9	2449.3	2434.2	2483.0	2540.3
17.5°	2305.2	2315.5	2297.4	2317.9	2324.5	2308.3	2352.3	2389.0	2378.2	2431.2	2497.5
20°	2268.5	2276.9	2251.6	2263.1	2262.5	2242.0	2282.3	2318.5	2311.3	2369.7	2445.1
22.5°	2227.5	2231.7	2202.2	2204.6	2203.4	2169.6	2205.8	2242.6	2239.5	2298.6	2383.0
25°	2184.1	2184.7	2146.7	2145.5	2132.3	2092.5	2124.4	2166.0	2157.0	2220.9	2309.5
27.5°	2141.3	2135.3	2089.5	2078.6	2057.5	2009.9	2038.3	2075.6	2070.2	2132.9	2231.1
30°	2095.5	2087.7	2031.6	2011.7	1981.0	1926.2	1949.7	1984.6	1987.6	2042.5	2145.5
32.5°	2052.1	2032.2	1970.2	1941.2	1902.7	1838.8	1851.4	1887.0	1891.8	1947.3	2053.3
35°	1996.1	1982.8	1906.3	1856.8	1818.9	1749.0	1762.2	1786.9	1794.2	1848.4	1956.3
37.5°	1943.0	1921.9	1840.6	1780.3	1731.5	1658.0	1661.6	1686.9	1694.1	1749.0	1855.6
40°	1888.2	1858.1	1770.7	1700.2	1644.1	1567.0	1562.7	1589.3	1594.7	1648.3	1744.8
42.5°	1829.7	1793.6	1695.3	1618.2	1553.7	1475.4	1466.9	1489.8	1495.8	1548.3	1642.9
45°	1770.7	1727.3	1618.2	1533.8	1463.3	1383.1	1374.7	1392.2	1401.2	1450.6	1541.6
47.5°	1708.0	1657.4	1538.6	1444.6	1371.7	1291.5	1281.3	1298.8	1306.0	1354.8	1441.0
50°	1642.3	1580.8	1456.7	1353.0	1280.7	1201.7	1186.7	1207.2	1213.8	1259.6	1344.0
52.5°	1570.0	1501.9	1369.3	1260.8	1188.5	1113.1	1095.1	1115.0	1122.8	1167.4	1245.1
55°	1493.4	1419.9	1281.3	1175.8	1097.5	1023.9	1008.9	1016.7	1033.6	1075.8	1148.1
57.5°	1407.3	1334.3	1188.5	1081.2	1005.9	935.4	922.7	929.9	945.6	986.6	1051.7
60°	1315.6	1238.5	1093.9	986.6	913.7	846.8	835.3	841.9	858.8	896.2	956.4
62.5°	1225.2	1138.5	996.2	889.6	823.3	761.2	758.2	755.8	771.4	807.6	860.6
65°	1115.6	1032.4	894.4	793.1	732.9	676.8	664.8	670.2	685.2	718.4	773.8
67.5°	998.0	922.7	790.1	696.7	643.1	593.0	582.8	585.2	600.9	629.8	678.0
70°	873.3	807.0	683.4	599.7	554.5	507.5	500.8	501.4	516.5	541.8	584.0
72.5°	742.5	682.8	575.6	503.8	466.5	432.7	426.7	419.5	433.3	455.0	491.2
75°	609.3	556.9	468.3	409.8	380.3	352.0	346.5	339.3	353.2	371.9	400.2
77.5°	474.9	432.7	364.0	318.8	295.9	274.8	270.0	262.2	276.0	289.9	312.2
80°	343.5	312.8	271.8	224.2	216.4	202.5	197.7	189.2	202.5	211.5	228.4
82.5°	221.8	201.3	177.8	144.6	143.4	133.2	130.8	121.1	133.2	138.6	151.3
85°	112.1	102.5	96.4	73.5	75.9	69.3	68.7	58.5	68.1	70.5	77.7
87.5°	31.9	33.7	30.1	18.1	22.9	21.7	21.7	15.7	21.7	21.7	24.7
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: P837963

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-6STD-27-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2583.7	2583.7	2583.7	2583.7	2583.7	2583.7	2583.7	2583.7
2.5°	2586.1	2596.3	2598.7	2598.1	2604.8	2640.9	2628.9	2640.9
5°	2592.1	2615.0	2621.0	2629.5	2640.3	2681.3	2668.1	2682.5
7.5°	2595.7	2630.1	2643.3	2659.6	2677.1	2722.9	2712.0	2726.5
10°	2595.7	2640.3	2659.6	2686.7	2710.2	2763.3	2753.0	2769.9
12.5°	2584.9	2642.1	2669.3	2707.2	2737.4	2794.6	2790.4	2802.5
15°	2562.6	2633.1	2670.5	2719.3	2756.6	2820.5	2818.7	2833.2
17.5°	2532.5	2617.4	2662.6	2724.1	2771.1	2842.8	2847.0	2854.9
20°	2494.5	2587.9	2647.0	2722.3	2781.4	2860.3	2865.7	2876.6
22.5°	2444.5	2552.3	2623.5	2714.5	2782.6	2867.5	2877.2	2887.4
25°	2385.4	2509.5	2592.7	2699.4	2776.5	2866.9	2880.2	2889.2
27.5°	2317.9	2454.1	2553.5	2675.3	2759.7	2857.3	2873.6	2884.4
30°	2239.5	2395.0	2508.9	2643.9	2736.8	2839.2	2856.7	2867.5
32.5°	2158.8	2330.0	2455.9	2603.6	2703.6	2810.3	2825.4	2833.8
35°	2070.8	2251.0	2392.0	2551.7	2660.8	2763.9	2775.3	2784.4
37.5°	1975.0	2165.4	2319.1	2493.3	2600.6	2699.4	2709.6	2719.9
40°	1876.1	2075.6	2237.1	2421.6	2528.8	2620.4	2631.3	2638.5
42.5°	1776.7	1976.2	2149.8	2337.2	2443.9	2531.8	2538.5	2545.7
45°	1676.0	1873.1	2051.5	2243.8	2349.2	2431.8	2434.2	2440.2
47.5°	1573.6	1766.4	1943.6	2137.1	2241.4	2316.7	2319.1	2323.9
50°	1470.5	1659.8	1828.5	2022.0	2123.8	2203.4	2192.5	2197.4
52.5°	1369.3	1547.7	1720.0	1897.8	1998.5	2069.0	2072.0	2062.4
55°	1269.8	1438.0	1596.5	1767.7	1863.5	1918.3	1916.5	1920.1
57.5°	1169.2	1327.1	1472.3	1629.0	1722.5	1774.3	1785.1	1772.5
60°	1066.7	1215.0	1345.2	1486.8	1577.2	1620.6	1633.3	1621.2
62.5°	964.9	1101.1	1219.2	1342.8	1426.5	1480.2	1479.0	1465.7
65°	863.0	986.6	1092.1	1196.9	1269.8	1323.5	1321.1	1309.0
67.5°	769.0	870.9	965.5	1050.5	1113.7	1150.5	1163.2	1148.7
70°	665.4	753.3	836.5	904.6	957.1	990.2	1002.3	989.6
72.5°	561.7	636.4	694.9	760.6	801.0	828.7	841.3	829.3
75°	459.2	520.7	568.3	619.6	647.9	671.4	685.8	673.8
77.5°	359.8	407.4	445.4	482.7	515.3	520.7	533.4	525.5
80°	265.2	299.5	327.3	352.0	375.5	377.9	388.1	383.3
82.5°	176.6	199.5	206.7	232.6	247.7	245.3	255.5	251.9
85°	93.4	107.3	119.9	127.8	136.2	128.4	137.4	133.8
87.5°	31.3	33.1	28.9	41.0	45.2	38.6	44.0	42.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)