

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: P837890

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-6LO-35-120-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: P837890
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-LD4-6LO-35-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

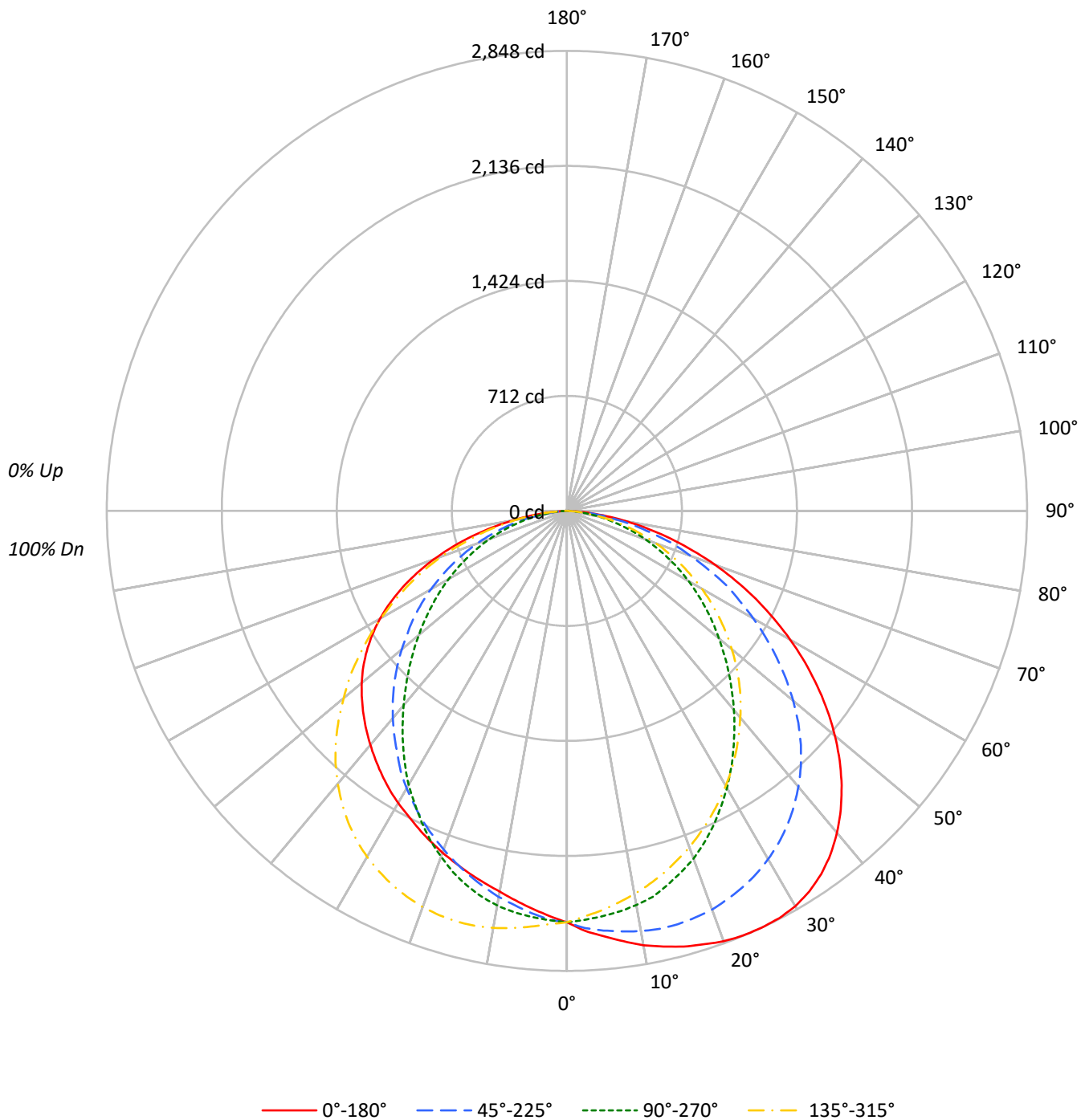
Lumens per Lamp: N/A
Luminaire Lumens: 7471.6 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70		
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59		
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6853	6853	6853	6853
5°	7142	6804	6675	6815
10°	7460	6769	6540	6778
15°	7780	6683	6476	6684
20°	8120	6561	6447	6524
25°	8456	6378	6447	6313
30°	8783	6156	6490	6088
35°	9016	5903	6555	5810
40°	9136	5649	6646	5521
45°	9154	5392	6776	5256
50°	9067	5146	6941	5009
55°	8879	4916	7096	4780
60°	8600	4677	7190	4556
65°	8216	4403	7152	4301
70°	7674	4080	6899	4006
75°	6905	3638	6331	3619
80°	5855	3047	5322	3093
85°	4072	2016	3375	2072

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.8	3.2
10°-20°	700.2	9.4
20°-30°	1073.0	14.4
30°-40°	1304.7	17.5
40°-50°	1356.4	18.2
50°-60°	1225.2	16.4
60°-70°	931.5	12.5
70°-80°	519.3	7.0
80°-90°	119.6	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°	2015.0	27.0
0°-40°	3319.7	44.4
0°-60°	5901.3	79.0
0°-90°	7471.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7471.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2547	2547	2547	2547	2547	
5°	2644	2519	2471	2523	2644	255
15°	2793	2399	2324	2399	2793	792
25°	2848	2148	2171	2126	2848	1315
35°	2744	1797	1995	1768	2744	1714
45°	2405	1417	1780	1381	2405	1852
55°	1893	1048	1512	1019	1893	1690
65°	1290	692	1123	675	1290	1275
75°	664	350	609	348	664	705
85°	132	65	109	67	132	166
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°	2546.7	2546.7	2546.7	2546.7	2546.7	2546.7	2546.7	2546.7	2546.7	2546.7	2546.7
2.5°	2603.1	2565.1	2565.7	2598.9	2573.4	2585.9	2550.2	2563.9	2559.7	2562.7	2533.6
5°	2644.1	2603.1	2602.5	2631.0	2602.5	2607.9	2562.7	2571.6	2558.5	2550.2	2518.7
7.5°	2687.5	2646.5	2642.3	2667.3	2629.8	2625.7	2575.8	2575.8	2552.0	2531.2	2501.5
10°	2730.2	2688.1	2682.7	2701.7	2655.4	2641.7	2581.1	2571.6	2540.1	2509.2	2477.2
12.5°	2762.3	2719.5	2715.4	2727.3	2675.0	2650.0	2581.1	2562.7	2516.4	2473.0	2448.1
15°	2792.6	2748.6	2737.4	2743.3	2683.3	2650.0	2572.8	2544.3	2484.9	2427.9	2398.8
17.5°	2814.0	2771.8	2760.5	2759.9	2687.5	2639.9	2555.0	2515.8	2444.5	2375.6	2346.5
20°	2835.4	2793.2	2778.9	2768.2	2686.3	2626.3	2528.8	2476.0	2392.8	2315.6	2291.2
22.5°	2846.1	2802.7	2787.3	2771.2	2678.5	2601.3	2496.8	2429.6	2334.6	2242.5	2222.3
25°	2847.8	2803.3	2786.7	2763.5	2663.1	2571.6	2455.2	2373.8	2267.5	2165.3	2148.1
27.5°	2843.1	2794.4	2777.8	2749.8	2639.9	2535.4	2405.9	2310.2	2196.2	2083.3	2064.9
30°	2826.5	2777.2	2761.1	2724.9	2607.3	2490.8	2351.8	2239.5	2117.2	1997.2	1981.1
32.5°	2793.2	2745.1	2732.0	2695.8	2571.6	2439.1	2288.9	2163.5	2029.9	1915.2	1891.4
35°	2744.5	2696.4	2688.1	2650.0	2521.7	2377.4	2219.9	2080.3	1937.2	1820.2	1797.0
37.5°	2680.9	2640.5	2628.1	2590.6	2462.9	2307.3	2140.9	1990.0	1842.7	1716.8	1702.5
40°	2600.7	2562.7	2553.2	2519.9	2394.6	2229.4	2055.4	1896.8	1745.3	1628.3	1608.1
42.5°	2509.2	2473.6	2468.3	2433.8	2310.2	2143.3	1962.7	1800.0	1643.7	1530.9	1510.7
45°	2405.3	2370.8	2369.6	2337.0	2218.2	2047.7	1865.3	1701.9	1544.5	1427.5	1416.8
47.5°	2290.6	2259.7	2259.7	2229.4	2115.4	1942.5	1764.9	1599.8	1444.7	1341.4	1322.3
50°	2165.9	2136.8	2127.9	2113.0	2001.9	1827.9	1659.2	1500.0	1346.1	1247.5	1229.1
52.5°	2032.8	2007.9	2013.8	1986.5	1879.0	1708.5	1552.2	1387.7	1246.9	1157.2	1138.8
55°	1892.6	1857.0	1862.3	1852.2	1750.6	1585.5	1432.2	1295.0	1149.5	1065.1	1047.9
57.5°	1747.1	1700.7	1719.8	1713.8	1614.0	1459.6	1322.3	1189.9	1052.6	974.8	958.2
60°	1598.0	1553.4	1573.0	1567.7	1473.8	1333.6	1208.9	1085.9	956.4	885.7	869.1
62.5°	1444.7	1403.7	1421.5	1417.4	1331.3	1204.7	1096.0	983.1	859.6	796.0	780.6
65°	1290.3	1251.1	1267.1	1264.1	1184.5	1088.3	980.2	876.8	762.2	706.9	691.5
67.5°	1132.2	1096.0	1110.9	1110.9	1037.8	945.7	863.7	769.3	666.5	619.0	604.7
70°	975.4	941.6	954.6	953.4	891.7	816.8	746.1	661.8	569.7	530.5	518.6
72.5°	817.4	787.7	799.6	798.4	746.7	698.6	628.5	555.4	475.2	443.8	433.1
75°	664.1	636.2	647.5	646.3	604.1	559.0	512.1	451.5	382.6	360.6	349.9
77.5°	518.0	489.5	499.0	499.0	468.1	435.4	398.0	351.1	302.4	278.6	270.9
80°	377.8	364.1	359.4	360.0	339.2	317.8	298.8	253.7	218.0	202.0	196.6
82.5°	248.3	237.0	232.3	233.5	221.6	208.5	196.6	165.1	141.4	131.9	128.9
85°	131.9	123.6	119.4	122.4	120.0	112.9	106.9	85.5	70.7	67.1	65.3
87.5°	41.6	36.2	33.3	44.0	37.4	33.3	32.1	25.5	19.6	19.6	19.0
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°	2546.7	2546.7	2546.7	2546.7	2546.7	2546.7	2546.7	2546.7	2546.7	2546.7	2546.7
2.5°	2543.1	2543.1	2519.9	2514.6	2512.2	2515.2	2492.0	2487.9	2521.1	2509.8	2484.3
5°	2522.9	2521.7	2489.0	2483.1	2483.1	2479.5	2453.4	2447.5	2480.7	2471.2	2443.3
7.5°	2498.0	2494.4	2455.8	2451.6	2445.7	2443.3	2414.2	2410.0	2438.6	2432.6	2406.5
10°	2467.7	2464.1	2418.4	2415.4	2408.9	2404.1	2376.8	2373.8	2402.9	2393.4	2372.6
12.5°	2427.9	2421.3	2374.4	2371.4	2366.1	2364.3	2337.6	2336.4	2368.5	2359.0	2337.0
15°	2375.6	2370.2	2318.0	2319.1	2319.7	2319.7	2298.4	2297.2	2328.7	2324.5	2300.7
17.5°	2318.0	2310.8	2260.9	2264.5	2268.7	2273.4	2256.8	2259.7	2293.0	2287.7	2266.3
20°	2252.6	2245.5	2196.8	2206.9	2215.8	2225.3	2214.6	2222.9	2253.8	2251.4	2235.4
22.5°	2179.5	2172.4	2127.3	2142.7	2157.6	2175.4	2170.6	2180.1	2212.8	2212.2	2198.0
25°	2090.4	2092.2	2052.4	2071.4	2096.4	2121.3	2123.1	2138.6	2174.8	2171.2	2158.2
27.5°	2007.3	2009.7	1967.5	1999.6	2032.8	2064.9	2072.6	2094.0	2130.8	2127.9	2116.6
30°	1920.0	1922.9	1881.9	1925.9	1966.3	2005.5	2022.1	2051.2	2088.7	2088.7	2076.8
32.5°	1829.1	1834.4	1791.6	1850.4	1897.4	1943.1	1972.2	2002.5	2045.3	2044.1	2034.0
35°	1735.8	1741.7	1702.5	1777.4	1824.3	1880.2	1916.4	1956.8	1994.8	1995.4	1987.7
37.5°	1640.8	1647.9	1612.2	1694.2	1747.7	1813.6	1860.0	1900.3	1942.5	1944.9	1937.8
40°	1546.3	1554.0	1523.1	1602.1	1669.9	1743.5	1797.0	1844.5	1890.8	1892.0	1887.3
42.5°	1451.8	1460.2	1437.0	1514.2	1590.9	1669.9	1732.8	1786.9	1834.4	1837.4	1832.0
45°	1359.8	1366.9	1350.3	1434.6	1508.3	1594.4	1666.9	1728.1	1776.2	1780.4	1778.6
47.5°	1268.3	1274.8	1260.0	1337.2	1422.1	1513.6	1597.4	1665.1	1716.2	1720.9	1719.8
50°	1178.6	1183.9	1167.9	1248.7	1333.0	1430.5	1517.8	1596.2	1653.2	1658.0	1657.4
52.5°	1089.5	1094.8	1081.2	1166.1	1242.7	1345.5	1440.6	1525.5	1581.9	1589.1	1590.3
55°	1003.3	1005.7	995.0	1076.4	1150.7	1258.2	1367.5	1450.1	1506.5	1512.4	1516.0
57.5°	917.2	917.8	908.9	986.7	1058.0	1167.9	1282.5	1369.3	1422.7	1428.7	1434.0
60°	831.7	831.1	821.0	896.4	964.7	1073.4	1192.8	1279.0	1330.7	1336.0	1343.1
62.5°	746.7	744.9	736.0	805.5	869.7	977.2	1097.2	1180.4	1229.7	1233.2	1242.7
65°	662.4	660.6	652.3	716.4	774.6	877.4	995.0	1074.0	1118.6	1123.3	1121.6
67.5°	579.2	575.6	569.1	626.7	679.6	774.6	887.5	962.9	999.8	1003.9	1015.2
70°	496.0	491.9	477.0	538.2	584.5	669.5	774.6	841.8	872.7	876.8	875.0
72.5°	414.0	409.9	393.9	450.3	489.5	563.7	657.6	713.4	740.2	743.7	743.7
75°	334.4	332.1	322.0	364.7	397.4	458.0	537.6	583.9	604.7	608.9	607.7
77.5°	257.8	256.0	245.9	282.8	308.3	353.5	417.6	453.9	469.3	474.0	484.1
80°	184.7	184.2	168.1	204.4	215.6	253.7	300.6	328.5	336.8	343.4	350.5
82.5°	118.2	118.8	102.8	133.7	138.4	162.8	191.9	209.1	215.0	220.4	225.7
85°	57.6	60.0	51.1	70.7	71.3	83.8	96.2	102.8	105.1	109.3	114.1
87.5°	14.9	17.2	9.5	20.2	17.8	23.2	26.7	28.5	27.9	30.9	32.7
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°	2546.7	2546.7	2546.7	2546.7	2546.7	2546.7	2546.7	2546.7	2546.7	2546.7	2546.7
2.5°	2492.6	2511.6	2502.1	2533.0	2544.9	2525.9	2559.1	2559.7	2536.0	2563.9	2579.3
5°	2454.0	2473.6	2467.7	2499.7	2514.6	2498.0	2538.4	2546.1	2522.9	2554.4	2579.3
7.5°	2414.8	2438.0	2430.2	2462.9	2480.7	2467.7	2511.0	2523.5	2505.7	2540.1	2573.4
10°	2380.9	2400.5	2392.2	2426.7	2442.1	2431.4	2474.2	2497.4	2480.7	2522.9	2562.7
12.5°	2347.7	2363.7	2354.2	2382.7	2397.6	2383.9	2436.2	2457.6	2445.7	2489.6	2540.7
15°	2304.9	2322.7	2309.6	2335.2	2346.5	2334.6	2377.4	2414.2	2399.3	2447.5	2503.9
17.5°	2272.2	2282.3	2264.5	2284.7	2291.2	2275.2	2318.6	2354.8	2344.1	2396.4	2461.7
20°	2236.0	2244.3	2219.4	2230.6	2230.0	2209.8	2249.6	2285.3	2278.2	2335.8	2410.0
22.5°	2195.6	2199.7	2170.6	2173.0	2171.8	2138.6	2174.2	2210.4	2207.5	2265.7	2348.9
25°	2152.8	2153.4	2116.0	2114.8	2101.7	2062.5	2094.0	2135.0	2126.1	2189.1	2276.4
27.5°	2110.6	2104.7	2059.6	2048.9	2028.1	1981.1	2009.1	2045.9	2040.5	2102.3	2199.2
30°	2065.5	2057.8	2002.5	1982.9	1952.6	1898.6	1921.7	1956.2	1959.2	2013.2	2114.8
32.5°	2022.7	2003.1	1941.9	1913.4	1875.4	1812.4	1824.9	1860.0	1864.7	1919.4	2023.9
35°	1967.5	1954.4	1879.0	1830.3	1792.8	1723.9	1737.0	1761.3	1768.5	1821.9	1928.3
37.5°	1915.2	1894.4	1814.2	1754.8	1706.7	1634.2	1637.8	1662.7	1669.9	1723.9	1829.1
40°	1861.1	1831.4	1745.3	1675.8	1620.6	1544.5	1540.4	1566.5	1571.8	1624.7	1719.8
42.5°	1803.5	1767.9	1671.0	1595.0	1531.4	1454.2	1445.9	1468.5	1474.4	1526.1	1619.4
45°	1745.3	1702.5	1595.0	1511.8	1442.3	1363.3	1355.0	1372.2	1381.2	1429.9	1519.6
47.5°	1683.5	1633.6	1516.6	1423.9	1352.0	1273.0	1262.9	1280.2	1287.3	1335.4	1420.4
50°	1618.8	1558.2	1435.8	1333.6	1262.3	1184.5	1169.7	1189.9	1196.4	1241.6	1324.7
52.5°	1547.5	1480.4	1349.7	1242.7	1171.5	1097.2	1079.4	1099.0	1106.7	1150.7	1227.3
55°	1472.0	1399.6	1262.9	1159.0	1081.8	1009.3	994.4	1002.2	1018.8	1060.4	1131.7
57.5°	1387.1	1315.2	1171.5	1065.7	991.5	922.0	909.5	916.6	932.1	972.5	1036.6
60°	1296.8	1220.8	1078.2	972.5	900.6	834.6	823.3	829.9	846.5	883.3	942.7
62.5°	1207.7	1122.2	982.0	876.8	811.5	750.3	747.3	744.9	760.4	796.0	848.3
65°	1099.6	1017.6	881.6	781.8	722.4	667.1	655.2	660.6	675.4	708.1	762.8
67.5°	983.7	909.5	778.8	686.7	633.8	584.5	574.4	576.8	592.3	620.8	668.3
70°	860.8	795.4	673.6	591.1	546.5	500.2	493.7	494.2	509.1	534.0	575.6
72.5°	731.9	673.1	567.3	496.6	459.8	426.5	420.6	413.5	427.1	448.5	484.1
75°	600.6	548.9	461.6	404.0	374.8	346.9	341.6	334.4	348.1	366.5	394.4
77.5°	468.1	426.5	358.8	314.2	291.7	270.9	266.1	258.4	272.1	285.7	307.7
80°	338.6	308.3	267.9	221.0	213.3	199.6	194.8	186.5	199.6	208.5	225.1
82.5°	218.6	198.4	175.2	142.6	141.4	131.3	128.9	119.4	131.3	136.6	149.1
85°	110.5	101.0	95.0	72.5	74.8	68.3	67.7	57.6	67.1	69.5	76.6
87.5°	31.5	33.3	29.7	17.8	22.6	21.4	21.4	15.4	21.4	21.4	24.4
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: P837890

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-6LO-35-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2546.7	2546.7	2546.7	2546.7	2546.7	2546.7	2546.7	2546.7
2.5°	2549.0	2559.1	2561.5	2560.9	2567.5	2603.1	2591.2	2603.1
5°	2555.0	2577.6	2583.5	2591.8	2602.5	2642.9	2629.8	2644.1
7.5°	2558.5	2592.4	2605.5	2621.5	2638.7	2683.9	2673.2	2687.5
10°	2558.5	2602.5	2621.5	2648.3	2671.4	2723.7	2713.6	2730.2
12.5°	2547.9	2604.3	2631.0	2668.4	2698.2	2754.6	2750.4	2762.3
15°	2525.9	2595.4	2632.2	2680.3	2717.2	2780.1	2778.3	2792.6
17.5°	2496.2	2579.9	2624.5	2685.1	2731.4	2802.1	2806.3	2814.0
20°	2458.8	2550.8	2609.0	2683.3	2741.5	2819.3	2824.7	2835.4
22.5°	2409.4	2515.8	2585.9	2675.6	2742.7	2826.5	2836.0	2846.1
25°	2351.2	2473.6	2555.6	2660.7	2736.8	2825.9	2838.9	2847.8
27.5°	2284.7	2418.9	2517.0	2637.0	2720.1	2816.4	2832.4	2843.1
30°	2207.5	2360.7	2473.0	2606.1	2697.6	2798.5	2815.8	2826.5
32.5°	2127.9	2296.6	2420.7	2566.3	2664.9	2770.0	2784.9	2793.2
35°	2041.1	2218.8	2357.8	2515.2	2622.7	2724.3	2735.6	2744.5
37.5°	1946.7	2134.4	2285.9	2457.6	2563.3	2660.7	2670.8	2680.9
40°	1849.3	2045.9	2205.1	2386.9	2492.6	2582.9	2593.6	2600.7
42.5°	1751.2	1947.9	2119.0	2303.7	2408.9	2495.6	2502.1	2509.2
45°	1652.0	1846.3	2022.1	2211.6	2315.6	2397.0	2399.3	2405.3
47.5°	1551.1	1741.1	1915.8	2106.5	2209.3	2283.5	2285.9	2290.6
50°	1449.5	1636.0	1802.3	1993.0	2093.4	2171.8	2161.1	2165.9
52.5°	1349.7	1525.5	1695.4	1870.6	1969.9	2039.4	2042.3	2032.8
55°	1251.7	1417.4	1573.6	1742.3	1836.8	1890.8	1889.1	1892.6
57.5°	1152.4	1308.1	1451.3	1605.7	1697.8	1748.9	1759.6	1747.1
60°	1051.5	1197.6	1325.9	1465.5	1554.6	1597.4	1609.9	1598.0
62.5°	951.1	1085.3	1201.8	1323.5	1406.1	1459.0	1457.8	1444.7
65°	850.7	972.5	1076.4	1179.8	1251.7	1304.5	1302.1	1290.3
67.5°	758.0	858.4	951.7	1035.4	1097.8	1134.0	1146.5	1132.2
70°	655.8	742.6	824.5	891.7	943.3	976.0	987.9	975.4
72.5°	553.6	627.3	684.9	749.7	789.5	816.8	829.3	817.4
75°	452.7	513.3	560.2	610.7	638.6	661.8	676.0	664.1
77.5°	354.6	401.6	439.0	475.8	507.9	513.3	525.7	518.0
80°	261.4	295.2	322.6	346.9	370.1	372.5	382.6	377.8
82.5°	174.1	196.6	203.8	229.3	244.2	241.8	251.9	248.3
85°	92.1	105.7	118.2	125.9	134.3	126.5	135.4	131.9
87.5°	30.9	32.7	28.5	40.4	44.6	38.0	43.4	41.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)