

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: P837852

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-5STD-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: P837852
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-LD4-5STD-27-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

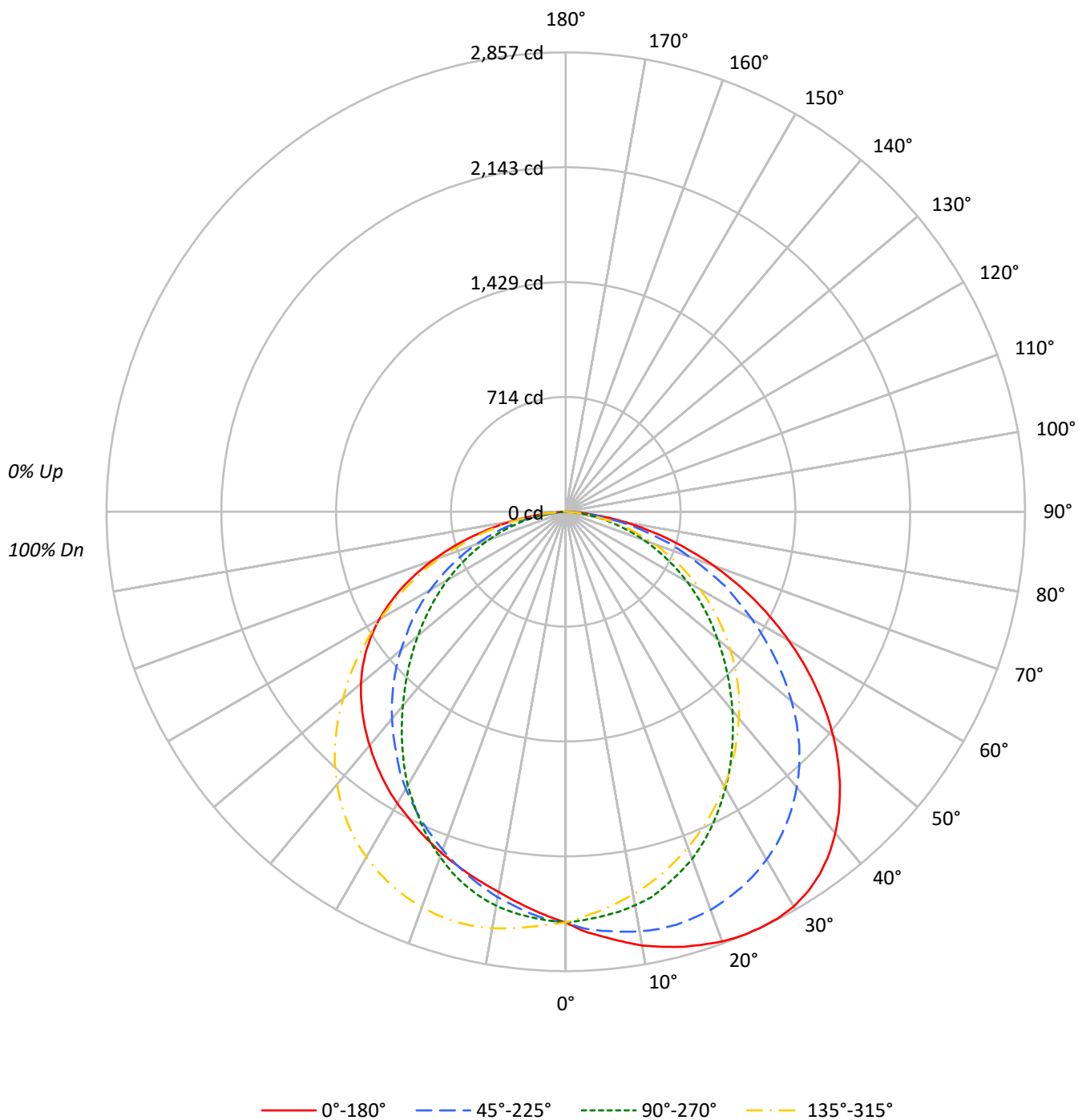
Lumens per Lamp: N/A
Luminaire Lumens: 7495.6 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 83.2
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6875	6875	6875	6875
5°	7165	6826	6697	6837
10°	7484	6791	6561	6800
15°	7805	6704	6497	6706
20°	8146	6582	6468	6545
25°	8483	6399	6467	6333
30°	8811	6176	6511	6107
35°	9045	5922	6576	5828
40°	9165	5667	6668	5539
45°	9183	5409	6797	5273
50°	9097	5162	6963	5025
55°	8908	4932	7119	4795
60°	8628	4693	7213	4570
65°	8242	4417	7176	4315
70°	7700	4094	6921	4018
75°	6928	3649	6352	3631
80°	5873	3058	5339	3102
85°	4085	2025	3387	2078

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.6	3.2
10°-20°	702.4	9.4
20°-30°	1076.5	14.4
30°-40°	1308.9	17.5
40°-50°	1360.7	18.2
50°-60°	1229.1	16.4
60°-70°	934.5	12.5
70°-80°	521.0	7.0
80°-90°	119.9	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°	2021.5	27.0
0°-40°	3330.4	44.4
0°-60°	5920.2	79.0
0°-90°	7495.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7495.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2555	2555	2555	2555	2555	
5°	2653	2527	2479	2531	2653	256
15°	2802	2406	2332	2407	2802	794
25°	2857	2155	2178	2133	2857	1320
35°	2753	1803	2002	1774	2753	1720
45°	2413	1421	1786	1386	2413	1858
55°	1899	1051	1517	1022	1899	1695
65°	1294	694	1127	678	1294	1279
75°	666	351	611	349	666	708
85°	132	66	110	67	132	167
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°	2554.9	2554.9	2554.9	2554.9	2554.9	2554.9	2554.9	2554.9	2554.9	2554.9	2554.9
2.5°	2611.5	2573.3	2573.9	2607.3	2581.7	2594.2	2558.4	2572.1	2568.0	2571.0	2541.7
5°	2652.6	2611.5	2610.9	2639.5	2610.9	2616.2	2571.0	2579.9	2566.8	2558.4	2526.8
7.5°	2696.1	2655.0	2650.8	2675.8	2638.3	2634.1	2584.1	2584.1	2560.2	2539.4	2509.6
10°	2739.0	2696.7	2691.3	2710.4	2663.9	2650.2	2589.4	2579.9	2548.3	2517.3	2485.1
12.5°	2771.2	2728.3	2724.1	2736.0	2683.6	2658.6	2589.4	2571.0	2524.5	2481.0	2455.9
15°	2801.6	2757.5	2746.2	2752.1	2691.9	2658.6	2581.1	2552.5	2492.9	2435.7	2406.5
17.5°	2823.0	2780.7	2769.4	2768.8	2696.1	2648.4	2563.2	2523.9	2452.4	2383.2	2354.0
20°	2844.5	2802.2	2787.9	2777.2	2694.9	2634.7	2537.0	2483.9	2400.5	2323.0	2298.6
22.5°	2855.2	2811.7	2796.2	2780.1	2687.2	2609.7	2504.8	2437.5	2342.1	2249.7	2229.5
25°	2857.0	2812.3	2795.6	2772.4	2671.7	2579.9	2463.1	2381.4	2274.8	2172.3	2155.0
27.5°	2852.2	2803.4	2786.7	2758.7	2648.4	2543.5	2413.6	2317.7	2203.2	2090.0	2071.5
30°	2835.6	2786.1	2770.0	2733.6	2615.6	2498.8	2359.4	2246.8	2124.0	2003.6	1987.5
32.5°	2802.2	2753.9	2740.8	2704.4	2579.9	2447.0	2296.2	2170.5	2036.4	1921.4	1897.5
35°	2753.3	2705.0	2696.7	2658.6	2529.8	2385.0	2227.1	2087.0	1943.4	1826.0	1802.8
37.5°	2689.5	2649.0	2636.5	2599.0	2470.8	2314.7	2147.8	1996.4	1848.7	1722.3	1708.0
40°	2609.1	2571.0	2561.4	2528.0	2402.3	2236.6	2062.0	1902.9	1750.9	1633.5	1613.3
42.5°	2517.3	2481.6	2476.2	2441.6	2317.7	2150.2	1969.0	1805.7	1649.0	1535.8	1515.5
45°	2413.0	2378.5	2377.3	2344.5	2225.3	2054.3	1871.3	1707.4	1549.5	1432.1	1421.4
47.5°	2298.0	2267.0	2267.0	2236.6	2122.2	1948.8	1770.6	1604.9	1449.4	1345.7	1326.6
50°	2172.9	2143.7	2134.7	2119.8	2008.4	1833.8	1664.5	1504.8	1350.4	1251.5	1233.0
52.5°	2039.4	2014.3	2020.3	1992.9	1885.0	1714.0	1557.2	1392.2	1250.9	1160.9	1142.4
55°	1898.7	1863.0	1868.3	1858.2	1756.3	1590.6	1436.8	1299.2	1153.2	1068.5	1051.3
57.5°	1752.7	1706.2	1725.3	1719.3	1619.2	1464.3	1326.6	1193.7	1056.0	978.0	961.3
60°	1603.1	1558.4	1578.1	1572.7	1478.6	1337.9	1212.8	1089.4	959.5	888.6	871.9
62.5°	1449.4	1408.2	1426.1	1421.9	1335.5	1208.6	1099.5	986.3	862.3	798.6	783.1
65°	1294.4	1255.1	1271.2	1268.2	1188.3	1091.8	983.3	879.6	764.6	709.2	693.7
67.5°	1135.9	1099.5	1114.4	1114.4	1041.1	948.8	866.5	771.8	668.7	621.0	606.7
70°	978.6	944.6	957.7	956.5	894.5	819.4	748.5	663.9	571.5	532.2	520.3
72.5°	820.0	790.2	802.2	801.0	749.1	700.8	630.5	557.2	476.8	445.2	434.5
75°	666.3	638.3	649.6	648.4	606.1	560.8	513.7	452.9	383.8	361.7	351.0
77.5°	519.7	491.1	500.6	500.6	469.6	436.8	399.3	352.2	303.3	279.5	271.8
80°	379.0	365.3	360.6	361.1	340.3	318.8	299.8	254.5	218.7	202.6	197.3
82.5°	249.1	237.8	233.0	234.2	222.3	209.2	197.3	165.7	141.8	132.3	129.3
85°	132.3	124.0	119.8	122.8	120.4	113.2	107.3	85.8	70.9	67.3	65.6
87.5°	41.7	36.4	33.4	44.1	37.5	33.4	32.2	25.6	19.7	19.7	19.1
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2554.9	2554.9	2554.9	2554.9	2554.9	2554.9	2554.9	2554.9	2554.9	2554.9	2554.9
2.5°	2551.3	2551.3	2528.0	2522.7	2520.3	2523.3	2500.0	2495.9	2529.2	2517.9	2492.3
5°	2531.0	2529.8	2497.1	2491.1	2491.1	2487.5	2461.3	2455.3	2488.7	2479.2	2451.2
7.5°	2506.0	2502.4	2463.7	2459.5	2453.5	2451.2	2422.0	2417.8	2446.4	2440.4	2414.2
10°	2475.6	2472.0	2426.1	2423.2	2416.6	2411.8	2384.4	2381.4	2410.6	2401.1	2380.2
12.5°	2435.7	2429.1	2382.0	2379.1	2373.7	2371.9	2345.1	2343.9	2376.1	2366.5	2344.5
15°	2383.2	2377.9	2325.4	2326.6	2327.2	2327.2	2305.8	2304.6	2336.1	2332.0	2308.1
17.5°	2325.4	2318.3	2268.2	2271.8	2276.0	2280.7	2264.0	2267.0	2300.4	2295.0	2273.6
20°	2259.9	2252.7	2203.8	2214.0	2222.9	2232.4	2221.7	2230.1	2261.1	2258.7	2242.6
22.5°	2186.6	2179.4	2134.1	2149.6	2164.5	2182.4	2177.6	2187.2	2219.9	2219.3	2205.0
25°	2097.2	2099.0	2059.0	2078.1	2103.1	2128.2	2129.9	2145.4	2181.8	2178.2	2165.1
27.5°	2013.7	2016.1	1973.8	2006.0	2039.4	2071.5	2079.3	2100.7	2137.7	2134.7	2123.4
30°	1926.1	1929.1	1888.0	1932.1	1972.6	2011.9	2028.6	2057.8	2095.4	2095.4	2083.5
32.5°	1834.9	1840.3	1797.4	1856.4	1903.5	1949.4	1978.6	2009.0	2051.9	2050.7	2040.6
35°	1741.4	1747.3	1708.0	1783.1	1830.2	1886.2	1922.6	1963.1	2001.2	2001.8	1994.1
37.5°	1646.0	1653.2	1617.4	1699.7	1753.3	1819.5	1865.9	1906.5	1948.8	1951.2	1944.0
40°	1551.3	1559.0	1528.0	1607.3	1675.2	1749.1	1802.8	1850.4	1896.9	1898.1	1893.3
42.5°	1456.5	1464.9	1441.6	1519.1	1596.0	1675.2	1738.4	1792.6	1840.3	1843.3	1837.9
45°	1364.1	1371.3	1354.6	1439.2	1513.1	1599.5	1672.3	1733.6	1781.9	1786.1	1784.3
47.5°	1272.4	1278.9	1264.0	1341.5	1426.7	1518.5	1602.5	1670.5	1721.7	1726.5	1725.3
50°	1182.4	1187.7	1171.6	1252.7	1337.3	1435.1	1522.7	1601.3	1658.5	1663.3	1662.7
52.5°	1093.0	1098.3	1084.6	1169.9	1246.7	1349.8	1445.2	1530.4	1587.0	1594.2	1595.4
55°	1006.6	1009.0	998.2	1079.9	1154.4	1262.2	1371.9	1454.7	1511.3	1517.3	1520.9
57.5°	920.2	920.8	911.8	989.9	1061.4	1171.6	1286.7	1373.7	1427.3	1433.3	1438.6
60°	834.3	833.7	823.6	899.3	967.8	1076.9	1196.7	1283.1	1334.9	1340.3	1347.5
62.5°	749.1	747.3	738.4	808.1	872.5	980.3	1100.7	1184.2	1233.6	1237.2	1246.7
65°	664.5	662.7	654.4	718.7	777.1	880.2	998.2	1077.5	1122.2	1127.0	1125.2
67.5°	581.1	577.5	570.9	628.7	681.8	777.1	890.4	966.0	1003.0	1007.2	1018.5
70°	497.6	493.5	478.6	539.9	586.4	671.6	777.1	844.5	875.5	879.6	877.8
72.5°	415.4	411.2	395.1	451.7	491.1	565.6	659.7	715.7	742.6	746.1	746.1
75°	335.5	333.1	323.0	365.9	398.7	459.5	539.3	585.8	606.7	610.9	609.7
77.5°	258.6	256.9	246.7	283.7	309.3	354.6	419.0	455.3	470.8	475.6	485.7
80°	185.3	184.7	168.7	205.0	216.3	254.5	301.6	329.6	337.9	344.5	351.6
82.5°	118.6	119.2	103.1	134.1	138.9	163.3	192.5	209.8	215.7	221.1	226.5
85°	57.8	60.2	51.3	70.9	71.5	84.0	96.5	103.1	105.5	109.7	114.4
87.5°	14.9	17.3	9.5	20.3	17.9	23.2	26.8	28.6	28.0	31.0	32.8
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°	2554.9	2554.9	2554.9	2554.9	2554.9	2554.9	2554.9	2554.9	2554.9	2554.9	2554.9
2.5°	2500.6	2519.7	2510.2	2541.2	2553.1	2534.0	2567.4	2568.0	2544.1	2572.1	2587.6
5°	2461.9	2481.6	2475.6	2507.8	2522.7	2506.0	2546.5	2554.3	2531.0	2562.6	2587.6
7.5°	2422.6	2445.8	2438.1	2470.8	2488.7	2475.6	2519.1	2531.6	2513.7	2548.3	2581.7
10°	2388.6	2408.3	2399.9	2434.5	2450.0	2439.2	2482.2	2505.4	2488.7	2531.0	2571.0
12.5°	2355.2	2371.3	2361.8	2390.4	2405.3	2391.6	2444.0	2465.5	2453.5	2497.6	2548.9
15°	2312.3	2330.2	2317.1	2342.7	2354.0	2342.1	2385.0	2422.0	2407.1	2455.3	2512.0
17.5°	2279.5	2289.7	2271.8	2292.0	2298.6	2282.5	2326.0	2362.4	2351.6	2404.1	2469.6
20°	2243.2	2251.5	2226.5	2237.8	2237.2	2217.0	2256.9	2292.6	2285.5	2343.3	2417.8
22.5°	2202.7	2206.8	2177.6	2180.0	2178.8	2145.4	2181.2	2217.5	2214.6	2273.0	2356.4
25°	2159.7	2160.3	2122.8	2121.6	2108.5	2069.2	2100.7	2141.9	2132.9	2196.1	2283.7
27.5°	2117.4	2111.5	2066.2	2055.4	2034.6	1987.5	2015.5	2052.5	2047.1	2109.1	2206.2
30°	2072.1	2064.4	2009.0	1989.3	1958.9	1904.7	1927.9	1962.5	1965.5	2019.7	2121.6
32.5°	2029.2	2009.6	1948.2	1919.6	1881.4	1818.3	1830.8	1865.9	1870.7	1925.5	2030.4
35°	1973.8	1960.7	1885.0	1836.1	1798.6	1729.5	1742.6	1767.0	1774.2	1827.8	1934.5
37.5°	1921.4	1900.5	1820.0	1760.5	1712.2	1639.5	1643.0	1668.1	1675.2	1729.5	1834.9
40°	1867.1	1837.3	1750.9	1681.2	1625.8	1549.5	1545.3	1571.5	1576.9	1629.9	1725.3
42.5°	1809.3	1773.6	1676.4	1600.1	1536.4	1458.9	1450.6	1473.2	1479.2	1531.0	1624.6
45°	1750.9	1708.0	1600.1	1516.7	1447.0	1367.7	1359.4	1376.7	1385.6	1434.5	1524.5
47.5°	1688.9	1638.9	1521.5	1428.5	1356.4	1277.1	1267.0	1284.3	1291.4	1339.7	1424.9
50°	1624.0	1563.2	1440.4	1337.9	1266.4	1188.3	1173.4	1193.7	1200.3	1245.5	1329.0
52.5°	1552.5	1485.1	1354.0	1246.7	1175.2	1100.7	1082.9	1102.5	1110.3	1154.4	1231.2
55°	1476.8	1404.1	1267.0	1162.7	1085.2	1012.5	997.6	1005.4	1022.1	1063.8	1135.3
57.5°	1391.6	1319.4	1175.2	1069.1	994.6	924.9	912.4	919.6	935.1	975.6	1039.9
60°	1301.0	1224.7	1081.7	975.6	903.5	837.3	826.0	832.5	849.2	886.2	945.8
62.5°	1211.6	1125.8	985.1	879.6	814.1	752.7	749.7	747.3	762.8	798.6	851.0
65°	1103.1	1020.9	884.4	784.3	724.7	669.3	657.3	662.7	677.6	710.4	765.2
67.5°	986.9	912.4	781.3	688.9	635.9	586.4	576.3	578.7	594.2	622.8	670.4
70°	863.5	798.0	675.8	593.0	548.3	501.8	495.2	495.8	510.7	535.8	577.5
72.5°	734.2	675.2	569.1	498.2	461.3	427.9	421.9	414.8	428.5	449.9	485.7
75°	602.5	550.7	463.1	405.2	376.0	348.0	342.7	335.5	349.2	367.7	395.7
77.5°	469.6	427.9	360.0	315.3	292.6	271.8	267.0	259.2	272.9	286.7	308.7
80°	339.7	309.3	268.8	221.7	213.9	200.2	195.5	187.1	200.2	209.2	225.9
82.5°	219.3	199.0	175.8	143.0	141.8	131.7	129.3	119.8	131.7	137.1	149.6
85°	110.8	101.3	95.4	72.7	75.1	68.5	67.9	57.8	67.3	69.7	76.9
87.5°	31.6	33.4	29.8	17.9	22.6	21.5	21.5	15.5	21.5	21.5	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: P837852

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-5STD-27-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2554.9	2554.9	2554.9	2554.9	2554.9	2554.9	2554.9	2554.9
2.5°	2557.2	2567.4	2569.8	2569.2	2575.7	2611.5	2599.6	2611.5
5°	2563.2	2585.8	2591.8	2600.2	2610.9	2651.4	2638.3	2652.6
7.5°	2566.8	2600.7	2613.9	2629.9	2647.2	2692.5	2681.8	2696.1
10°	2566.8	2610.9	2629.9	2656.8	2680.0	2732.5	2722.3	2739.0
12.5°	2556.1	2612.7	2639.5	2677.0	2706.8	2763.4	2759.3	2771.2
15°	2534.0	2603.7	2640.7	2688.9	2725.9	2789.1	2787.3	2801.6
17.5°	2504.2	2588.2	2632.9	2693.7	2740.2	2811.1	2815.3	2823.0
20°	2466.7	2559.0	2617.4	2691.9	2750.3	2828.4	2833.8	2844.5
22.5°	2417.2	2523.9	2594.2	2684.2	2751.5	2835.6	2845.1	2855.2
25°	2358.8	2481.6	2563.8	2669.3	2745.6	2835.0	2848.1	2857.0
27.5°	2292.0	2426.7	2525.1	2645.4	2728.9	2825.4	2841.5	2852.2
30°	2214.6	2368.3	2481.0	2614.5	2706.2	2807.5	2824.8	2835.6
32.5°	2134.7	2304.0	2428.5	2574.5	2673.5	2778.9	2793.8	2802.2
35°	2047.7	2225.9	2365.3	2523.3	2631.1	2733.1	2744.4	2753.3
37.5°	1952.9	2141.3	2293.2	2465.5	2571.5	2669.3	2679.4	2689.5
40°	1855.2	2052.5	2212.2	2394.5	2500.6	2591.2	2601.9	2609.1
42.5°	1756.9	1954.1	2125.8	2311.1	2416.6	2503.6	2510.2	2517.3
45°	1657.4	1852.2	2028.6	2218.7	2323.0	2404.7	2407.1	2413.0
47.5°	1556.0	1746.7	1922.0	2113.3	2216.4	2290.9	2293.2	2298.0
50°	1454.1	1641.3	1808.1	1999.4	2100.1	2178.8	2168.1	2172.9
52.5°	1354.0	1530.4	1700.9	1876.7	1976.2	2045.9	2048.9	2039.4
55°	1255.7	1421.9	1578.7	1747.9	1842.7	1896.9	1895.1	1898.7
57.5°	1156.2	1312.3	1455.9	1610.9	1703.2	1754.5	1765.2	1752.7
60°	1054.8	1201.4	1330.2	1470.2	1559.6	1602.5	1615.0	1603.1
62.5°	954.1	1088.8	1205.6	1327.8	1410.6	1463.7	1462.5	1449.4
65°	853.4	975.6	1079.9	1183.6	1255.7	1308.7	1306.3	1294.4
67.5°	760.4	861.2	954.7	1038.7	1101.3	1137.7	1150.2	1135.9
70°	657.9	744.9	827.2	894.5	946.4	979.2	991.1	978.6
72.5°	555.4	629.3	687.1	752.1	792.0	819.4	832.0	820.0
75°	454.1	514.9	562.0	612.6	640.7	663.9	678.2	666.3
77.5°	355.8	402.9	440.4	477.4	509.5	514.9	527.4	519.7
80°	262.2	296.2	323.6	348.0	371.3	373.7	383.8	379.0
82.5°	174.6	197.3	204.4	230.0	244.9	242.6	252.7	249.1
85°	92.4	106.1	118.6	126.3	134.7	126.9	135.9	132.3
87.5°	31.0	32.8	28.6	40.5	44.7	38.1	43.5	41.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)