

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: P837872

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-6LO-30-120-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: P837872
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-30-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

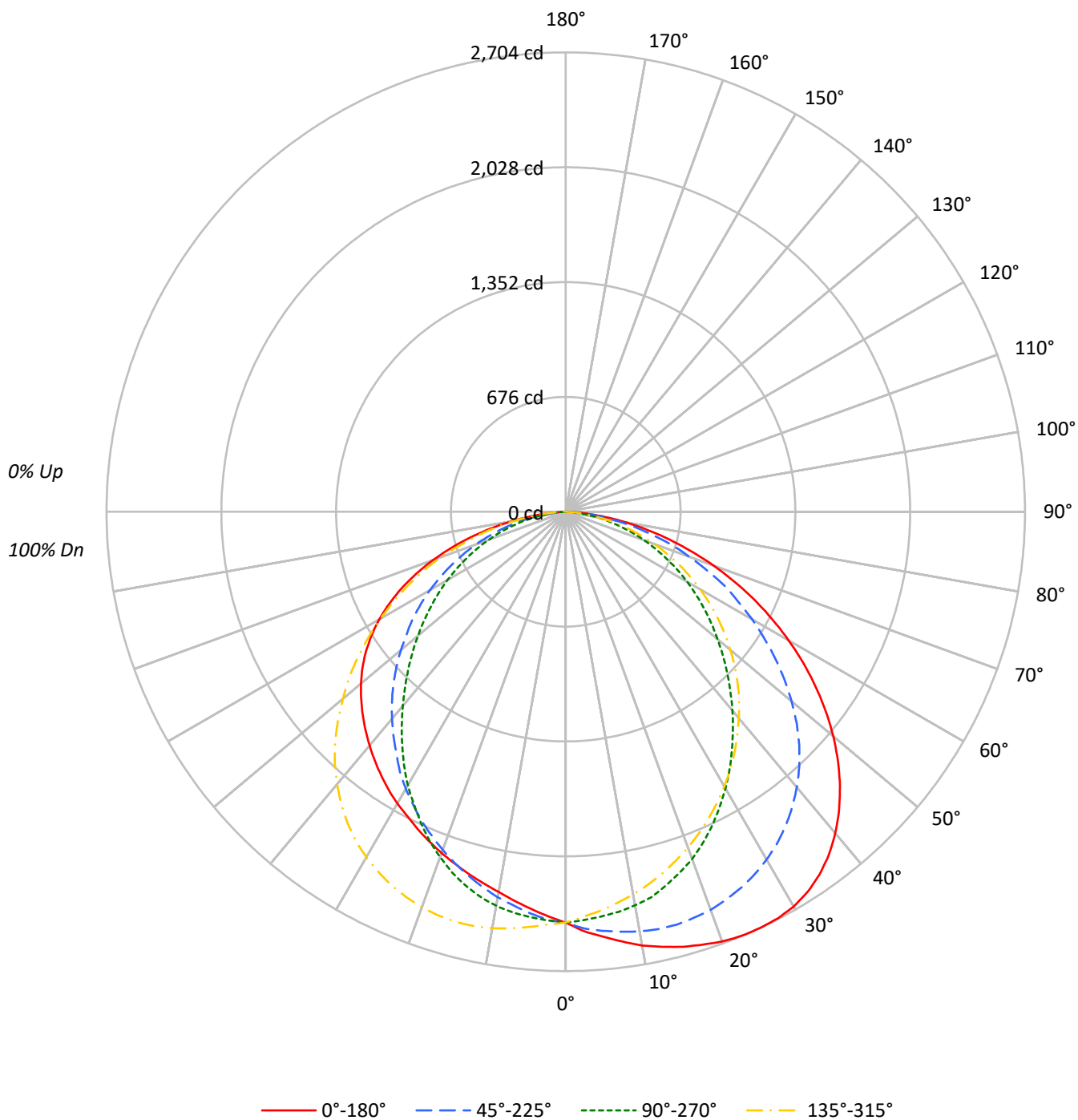
Lumens per Lamp: N/A
Luminaire Lumens: 7094.2 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	6507	6507	6507	6507
5°	6782	6460	6338	6471
10°	7083	6427	6210	6436
15°	7387	6345	6149	6347
20°	7710	6230	6122	6194
25°	8029	6056	6121	5994
30°	8339	5845	6162	5780
35°	8561	5605	6224	5516
40°	8675	5364	6311	5243
45°	8691	5119	6433	4991
50°	8609	4886	6590	4756
55°	8431	4668	6738	4538
60°	8166	4441	6827	4326
65°	7801	4180	6791	4083
70°	7287	3874	6550	3803
75°	6556	3454	6011	3436
80°	5559	2893	5052	2937
85°	3866	1914	3205	1967

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.6	3.2
10°-20°	664.8	9.4
20°-30°	1018.8	14.4
30°-40°	1238.8	17.5
40°-50°	1287.9	18.2
50°-60°	1163.3	16.4
60°-70°	884.4	12.5
70°-80°	493.1	7.0
80°-90°	113.5	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°	1913.2	27.0
0°-40°	3152.1	44.4
0°-60°	5603.2	79.0
0°-90°	7094.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7094.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2418	2418	2418	2418	2418	
5°	2511	2392	2346	2396	2511	242
15°	2652	2278	2207	2278	2652	752
25°	2704	2040	2062	2019	2704	1249
35°	2606	1706	1895	1679	2606	1628
45°	2284	1345	1690	1311	2284	1758
55°	1797	995	1436	967	1797	1604
65°	1225	656	1067	641	1225	1211
75°	631	332	578	330	631	670
85°	125	62	104	64	125	158
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°	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0
2.5°	2471.6	2435.5	2436.1	2467.7	2443.4	2455.3	2421.4	2434.4	2430.5	2433.3	2405.6
5°	2510.6	2471.6	2471.1	2498.1	2471.1	2476.1	2433.3	2441.7	2429.3	2421.4	2391.5
7.5°	2551.7	2512.8	2508.9	2532.5	2497.0	2493.1	2445.7	2445.7	2423.1	2403.4	2375.2
10°	2592.3	2552.3	2547.2	2565.3	2521.3	2508.3	2450.8	2441.7	2411.8	2382.5	2352.1
12.5°	2622.8	2582.2	2578.2	2589.5	2539.9	2516.2	2450.8	2433.3	2389.3	2348.1	2324.4
15°	2651.6	2609.8	2599.1	2604.7	2547.8	2516.2	2442.9	2415.8	2359.4	2305.2	2277.6
17.5°	2671.9	2631.8	2621.1	2620.5	2551.7	2506.6	2425.9	2388.7	2321.0	2255.6	2228.0
20°	2692.2	2652.1	2638.6	2628.4	2550.6	2493.6	2401.1	2350.9	2272.0	2198.6	2175.5
22.5°	2702.3	2661.2	2646.5	2631.3	2543.3	2469.9	2370.7	2306.9	2216.7	2129.3	2110.1
25°	2704.0	2661.7	2645.9	2623.9	2528.6	2441.7	2331.2	2253.9	2152.9	2055.9	2039.6
27.5°	2699.5	2653.3	2637.5	2611.0	2506.6	2407.3	2284.4	2193.6	2085.3	1978.1	1960.6
30°	2683.7	2636.9	2621.7	2587.3	2475.6	2365.0	2233.0	2126.4	2010.2	1896.3	1881.1
32.5°	2652.1	2606.4	2594.0	2559.6	2441.7	2316.0	2173.3	2054.2	1927.3	1818.5	1795.9
35°	2605.9	2560.2	2552.3	2516.2	2394.4	2257.3	2107.8	1975.3	1839.3	1728.2	1706.2
37.5°	2545.5	2507.2	2495.3	2459.8	2338.5	2190.7	2032.8	1889.5	1749.7	1630.1	1616.5
40°	2469.4	2433.3	2424.3	2392.7	2273.7	2116.9	1951.6	1801.0	1657.2	1546.0	1526.9
42.5°	2382.5	2348.7	2343.6	2310.9	2193.6	2035.1	1863.6	1709.0	1560.7	1453.5	1434.4
45°	2283.8	2251.1	2250.0	2218.9	2106.1	1944.3	1771.1	1616.0	1466.5	1355.4	1345.2
47.5°	2174.9	2145.6	2145.6	2116.9	2008.6	1844.4	1675.8	1519.0	1371.8	1273.6	1255.6
50°	2056.5	2028.9	2020.4	2006.3	1900.8	1735.6	1575.4	1424.2	1278.1	1184.5	1167.0
52.5°	1930.2	1906.5	1912.1	1886.2	1784.1	1622.2	1473.8	1317.6	1183.9	1098.8	1081.3
55°	1797.0	1763.2	1768.3	1758.7	1662.2	1505.4	1359.9	1229.6	1091.4	1011.3	995.0
57.5°	1658.8	1614.9	1632.9	1627.3	1532.5	1385.9	1255.6	1129.8	999.5	925.6	909.8
60°	1517.3	1475.0	1493.6	1488.5	1399.4	1266.3	1147.8	1031.1	908.1	841.0	825.2
62.5°	1371.8	1332.8	1349.8	1345.8	1264.0	1143.9	1040.7	933.5	816.2	755.8	741.2
65°	1225.1	1187.9	1203.1	1200.3	1124.7	1033.3	930.7	832.5	723.7	671.2	656.5
67.5°	1075.1	1040.7	1054.8	1054.8	985.4	898.0	820.1	730.4	632.9	587.7	574.2
70°	926.2	894.0	906.4	905.3	846.6	775.6	708.4	628.3	540.9	503.7	492.4
72.5°	776.1	747.9	759.2	758.1	709.0	663.3	596.8	527.4	451.2	421.3	411.2
75°	630.6	604.1	614.8	613.7	573.6	530.8	486.2	428.7	363.2	342.4	332.2
77.5°	491.8	464.8	473.8	473.8	444.5	413.4	377.9	333.3	287.1	264.5	257.2
80°	358.7	345.8	341.2	341.8	322.1	301.8	283.7	240.8	207.0	191.8	186.7
82.5°	235.8	225.1	220.5	221.7	210.4	198.0	186.7	156.8	134.2	125.2	122.4
85°	125.2	117.3	113.4	116.2	113.9	107.2	101.5	81.2	67.1	63.7	62.0
87.5°	39.5	34.4	31.6	41.7	35.5	31.6	30.5	24.3	18.6	18.6	18.0
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°	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0
2.5°	2414.7	2414.7	2392.7	2387.6	2385.3	2388.2	2366.2	2362.2	2393.8	2383.1	2358.8
5°	2395.5	2394.4	2363.3	2357.7	2357.7	2354.3	2329.5	2323.9	2355.4	2346.4	2319.9
7.5°	2371.8	2368.4	2331.8	2327.8	2322.2	2319.9	2292.3	2288.3	2315.4	2309.8	2284.9
10°	2343.0	2339.6	2296.2	2293.4	2287.2	2282.7	2256.7	2253.9	2281.6	2272.5	2252.8
12.5°	2305.2	2299.0	2254.5	2251.7	2246.6	2244.9	2219.5	2218.4	2248.8	2239.8	2218.9
15°	2255.6	2250.5	2200.9	2202.0	2202.6	2202.6	2182.3	2181.2	2211.0	2207.1	2184.5
17.5°	2200.9	2194.1	2146.7	2150.1	2154.1	2158.6	2142.8	2145.6	2177.2	2172.1	2151.8
20°	2138.8	2132.1	2085.8	2095.4	2103.9	2112.9	2102.7	2110.6	2140.0	2137.7	2122.5
22.5°	2069.5	2062.7	2019.8	2034.5	2048.6	2065.5	2061.0	2070.0	2101.1	2100.5	2087.0
25°	1984.9	1986.6	1948.8	1966.8	1990.5	2014.2	2015.9	2030.6	2065.0	2061.6	2049.2
27.5°	1905.9	1908.2	1868.1	1898.6	1930.2	1960.6	1967.9	1988.2	2023.2	2020.4	2009.7
30°	1823.0	1825.8	1786.9	1828.6	1867.0	1904.2	1920.0	1947.6	1983.2	1983.2	1971.9
32.5°	1736.7	1741.8	1701.2	1757.0	1801.6	1845.0	1872.6	1901.4	1942.0	1940.9	1931.3
35°	1648.1	1653.8	1616.5	1687.6	1732.2	1785.2	1819.6	1858.0	1894.1	1894.6	1887.3
37.5°	1557.9	1564.7	1530.8	1608.6	1659.4	1722.0	1766.0	1804.4	1844.4	1846.7	1839.9
40°	1468.2	1475.5	1446.2	1521.2	1585.5	1655.5	1706.2	1751.4	1795.3	1796.5	1792.0
42.5°	1378.5	1386.4	1364.4	1437.7	1510.5	1585.5	1645.3	1696.6	1741.8	1744.6	1739.5
45°	1291.1	1297.9	1282.1	1362.2	1432.1	1513.9	1582.7	1640.8	1686.5	1690.4	1688.7
47.5°	1204.2	1210.4	1196.3	1269.7	1350.3	1437.2	1516.7	1581.0	1629.5	1634.0	1632.9
50°	1119.1	1124.1	1108.9	1185.6	1265.7	1358.2	1441.1	1515.6	1569.7	1574.2	1573.7
52.5°	1034.5	1039.5	1026.6	1107.2	1180.0	1277.6	1367.8	1448.5	1502.0	1508.8	1509.9
55°	952.7	954.9	944.8	1022.0	1092.5	1194.6	1298.4	1376.8	1430.4	1436.1	1439.4
57.5°	870.9	871.4	863.0	936.9	1004.6	1108.9	1217.8	1300.1	1350.9	1356.5	1361.6
60°	789.7	789.1	779.5	851.1	916.0	1019.2	1132.6	1214.4	1263.5	1268.5	1275.3
62.5°	709.0	707.3	698.8	764.8	825.8	927.8	1041.8	1120.8	1167.6	1171.0	1180.0
65°	628.9	627.2	619.3	680.2	735.5	833.1	944.8	1019.8	1062.1	1066.6	1064.9
67.5°	549.9	546.6	540.4	595.1	645.3	735.5	842.7	914.3	949.3	953.2	963.9
70°	471.0	467.0	452.9	511.0	555.0	635.7	735.5	799.2	828.6	832.5	830.8
72.5°	393.1	389.2	374.0	427.5	464.8	535.3	624.4	677.4	702.8	706.2	706.2
75°	317.6	315.3	305.7	346.3	377.3	434.9	510.5	554.5	574.2	578.1	577.0
77.5°	244.8	243.1	233.5	268.5	292.7	335.6	396.5	430.9	445.6	450.1	459.7
80°	175.4	174.9	159.6	194.0	204.7	240.8	285.4	311.9	319.8	326.0	332.8
82.5°	112.2	112.8	97.6	126.9	131.4	154.5	182.2	198.5	204.2	209.3	214.3
85°	54.7	57.0	48.5	67.1	67.7	79.5	91.4	97.6	99.8	103.8	108.3
87.5°	14.1	16.4	9.0	19.2	16.9	22.0	25.4	27.1	26.5	29.3	31.0
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0
2.5°	2366.7	2384.8	2375.7	2405.1	2416.4	2398.3	2429.9	2430.5	2407.9	2434.4	2449.1
5°	2330.1	2348.7	2343.0	2373.5	2387.6	2371.8	2410.2	2417.5	2395.5	2425.4	2449.1
7.5°	2292.8	2314.8	2307.5	2338.5	2355.4	2343.0	2384.2	2396.1	2379.1	2411.8	2443.4
10°	2260.7	2279.3	2271.4	2304.1	2318.8	2308.6	2349.2	2371.2	2355.4	2395.5	2433.3
12.5°	2229.1	2244.3	2235.3	2262.4	2276.5	2263.5	2313.1	2333.4	2322.2	2363.9	2412.4
15°	2188.5	2205.4	2193.0	2217.3	2228.0	2216.7	2257.3	2292.3	2278.2	2323.9	2377.4
17.5°	2157.5	2167.1	2150.1	2169.3	2175.5	2160.3	2201.5	2235.9	2225.7	2275.3	2337.4
20°	2123.1	2131.0	2107.3	2118.0	2117.4	2098.2	2136.0	2169.9	2163.1	2217.8	2288.3
22.5°	2084.7	2088.6	2061.0	2063.3	2062.1	2030.6	2064.4	2098.8	2096.0	2151.3	2230.2
25°	2044.1	2044.7	2009.1	2008.0	1995.6	1958.4	1988.2	2027.2	2018.7	2078.5	2161.4
27.5°	2004.0	1998.4	1955.5	1945.4	1925.6	1881.1	1907.6	1942.6	1937.5	1996.1	2088.1
30°	1961.2	1953.8	1901.4	1882.8	1854.0	1802.7	1824.7	1857.4	1860.2	1911.5	2008.0
32.5°	1920.6	1902.0	1843.9	1816.8	1780.7	1720.9	1732.7	1766.0	1770.5	1822.4	1921.7
35°	1868.1	1855.7	1784.1	1737.8	1702.3	1636.9	1649.3	1672.4	1679.2	1729.9	1830.9
37.5°	1818.5	1798.7	1722.6	1666.2	1620.5	1551.7	1555.1	1578.8	1585.5	1636.9	1736.7
40°	1767.1	1738.9	1657.2	1591.2	1538.7	1466.5	1462.6	1487.4	1492.5	1542.7	1632.9
42.5°	1712.4	1678.6	1586.7	1514.5	1454.1	1380.8	1372.9	1394.3	1400.0	1449.0	1537.6
45°	1657.2	1616.5	1514.5	1435.5	1369.5	1294.5	1286.6	1302.9	1311.4	1357.6	1442.8
47.5°	1598.5	1551.1	1440.0	1352.0	1283.8	1208.7	1199.2	1215.5	1222.3	1268.0	1348.6
50°	1537.0	1479.5	1363.3	1266.3	1198.6	1124.7	1110.6	1129.8	1136.0	1178.8	1257.8
52.5°	1469.3	1405.6	1281.5	1180.0	1112.3	1041.8	1024.9	1043.5	1050.8	1092.5	1165.3
55°	1397.7	1328.9	1199.2	1100.4	1027.1	958.3	944.2	951.5	967.3	1006.8	1074.5
57.5°	1317.0	1248.8	1112.3	1011.9	941.4	875.4	863.5	870.3	885.0	923.3	984.3
60°	1231.3	1159.1	1023.7	923.3	855.1	792.5	781.8	788.0	803.8	838.7	895.1
62.5°	1146.7	1065.5	932.4	832.5	770.5	712.4	709.6	707.3	722.0	755.8	805.5
65°	1044.0	966.2	837.0	742.3	685.9	633.4	622.1	627.2	641.3	672.3	724.2
67.5°	934.1	863.5	739.5	652.0	601.8	555.0	545.4	547.7	562.4	589.4	634.5
70°	817.3	755.3	639.6	561.2	518.9	474.9	468.7	469.3	483.4	507.1	546.6
72.5°	694.9	639.1	538.7	471.5	436.6	405.0	399.3	392.6	405.5	425.9	459.7
75°	570.2	521.2	438.3	383.5	355.9	329.4	324.3	317.6	330.5	348.0	374.5
77.5°	444.5	405.0	340.7	298.4	276.9	257.2	252.7	245.4	258.3	271.3	292.2
80°	321.5	292.7	254.4	209.8	202.5	189.5	185.0	177.1	189.5	198.0	213.8
82.5°	207.6	188.4	166.4	135.4	134.2	124.7	122.4	113.4	124.7	129.7	141.6
85°	104.9	95.9	90.2	68.8	71.1	64.9	64.3	54.7	63.7	66.0	72.8
87.5°	29.9	31.6	28.2	16.9	21.4	20.3	20.3	14.7	20.3	20.3	23.1
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: P837872

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-6LO-30-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0	2418.0
2.5°	2420.3	2429.9	2432.2	2431.6	2437.8	2471.6	2460.4	2471.6
5°	2425.9	2447.4	2453.0	2460.9	2471.1	2509.4	2497.0	2510.6
7.5°	2429.3	2461.5	2473.9	2489.1	2505.5	2548.3	2538.2	2551.7
10°	2429.3	2471.1	2489.1	2514.5	2536.5	2586.1	2576.5	2592.3
12.5°	2419.2	2472.8	2498.1	2533.7	2561.9	2615.5	2611.5	2622.8
15°	2398.3	2464.3	2499.3	2545.0	2579.9	2639.7	2638.0	2651.6
17.5°	2370.1	2449.6	2491.9	2549.5	2593.5	2660.6	2664.5	2671.9
20°	2334.6	2422.0	2477.3	2547.8	2603.1	2676.9	2682.0	2692.2
22.5°	2287.8	2388.7	2455.3	2540.4	2604.2	2683.7	2692.7	2702.3
25°	2232.5	2348.7	2426.5	2526.3	2598.5	2683.1	2695.6	2704.0
27.5°	2169.3	2296.8	2389.8	2503.8	2582.7	2674.1	2689.4	2699.5
30°	2096.0	2241.5	2348.1	2474.5	2561.3	2657.2	2673.6	2683.7
32.5°	2020.4	2180.6	2298.5	2436.7	2530.3	2630.1	2644.2	2652.1
35°	1938.0	2106.7	2238.7	2388.2	2490.2	2586.7	2597.4	2605.9
37.5°	1848.4	2026.6	2170.4	2333.4	2433.8	2526.3	2535.9	2545.5
40°	1755.9	1942.6	2093.7	2266.3	2366.7	2452.5	2462.6	2469.4
42.5°	1662.8	1849.5	2011.9	2187.4	2287.2	2369.5	2375.7	2382.5
45°	1568.6	1753.0	1920.0	2099.9	2198.6	2275.9	2278.2	2283.8
47.5°	1472.7	1653.2	1819.0	2000.1	2097.7	2168.2	2170.4	2174.9
50°	1376.3	1553.4	1711.3	1892.4	1987.7	2062.1	2052.0	2056.5
52.5°	1281.5	1448.5	1609.8	1776.2	1870.4	1936.4	1939.2	1930.2
55°	1188.4	1345.8	1494.1	1654.3	1744.0	1795.3	1793.7	1797.0
57.5°	1094.2	1242.0	1378.0	1524.6	1612.0	1660.5	1670.7	1658.8
60°	998.4	1137.1	1258.9	1391.5	1476.1	1516.7	1528.6	1517.3
62.5°	903.0	1030.5	1141.1	1256.7	1335.1	1385.3	1384.2	1371.8
65°	807.7	923.3	1022.0	1120.2	1188.4	1238.6	1236.4	1225.1
67.5°	719.7	815.0	903.6	983.1	1042.4	1076.8	1088.6	1075.1
70°	622.7	705.1	782.9	846.6	895.7	926.7	938.0	926.2
72.5°	525.7	595.6	650.3	711.8	749.6	775.6	787.4	776.1
75°	429.8	487.3	531.9	579.8	606.3	628.3	641.9	630.6
77.5°	336.7	381.3	416.8	451.8	482.3	487.3	499.2	491.8
80°	248.2	280.3	306.3	329.4	351.4	353.7	363.2	358.7
82.5°	165.3	186.7	193.5	217.7	231.8	229.6	239.2	235.8
85°	87.4	100.4	112.2	119.6	127.5	120.1	128.6	125.2
87.5°	29.3	31.0	27.1	38.4	42.3	36.1	41.2	39.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)