

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: P838014

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-5STD-40-120-EDD-90**

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-08
Report Number: P838014
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-40-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFl grid
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

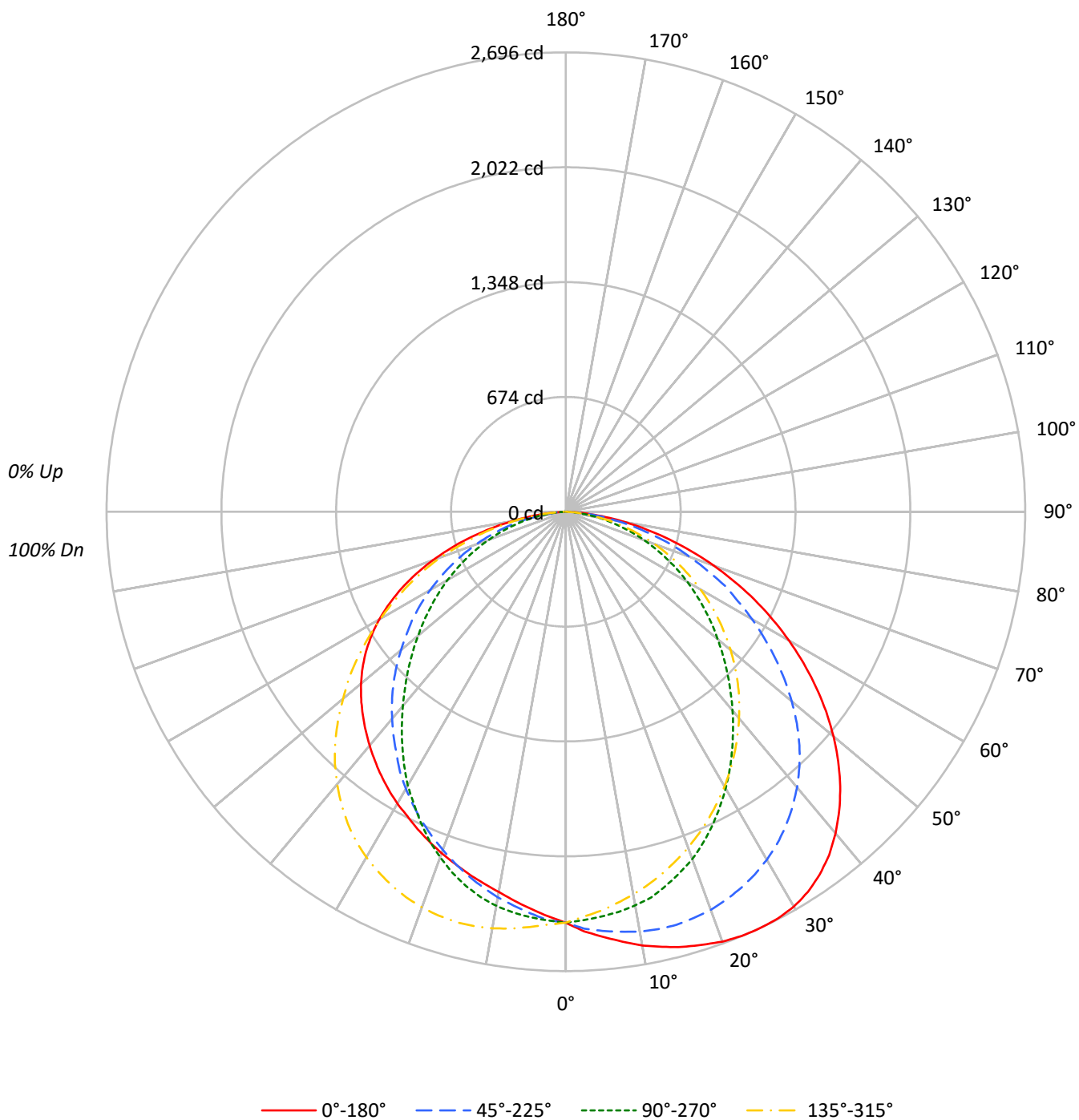
Lumens per Lamp: N/A
Luminaire Lumens: 7074.5 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

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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°	6489	6489	6489	6489
5°	6763	6442	6321	6453
10°	7064	6409	6192	6418
15°	7366	6328	6132	6329
20°	7688	6213	6105	6177
25°	8006	6039	6104	5977
30°	8316	5829	6145	5764
35°	8537	5590	6207	5501
40°	8650	5349	6293	5228
45°	8667	5105	6415	4977
50°	8586	4872	6572	4742
55°	8407	4655	6719	4525
60°	8143	4429	6808	4314
65°	7779	4169	6772	4072
70°	7267	3863	6532	3792
75°	6538	3445	5994	3427
80°	5543	2885	5038	2929
85°	3856	1911	3196	1964

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.9	3.2
10°-20°	663.0	9.4
20°-30°	1016.0	14.4
30°-40°	1235.4	17.5
40°-50°	1284.3	18.2
50°-60°	1160.1	16.4
60°-70°	882.0	12.5
70°-80°	491.7	7.0
80°-90°	113.2	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°	1907.9	27.0
0°-40°	3143.3	44.4
0°-60°	5587.7	79.0
0°-90°	7074.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7074.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2411	2411	2411	2411	2411	
5°	2504	2385	2340	2389	2504	241
15°	2644	2271	2201	2272	2644	750
25°	2696	2034	2056	2013	2696	1245
35°	2599	1702	1889	1674	2599	1623
45°	2278	1342	1686	1308	2278	1753
55°	1792	992	1432	965	1792	1600
65°	1222	655	1064	640	1222	1207
75°	629	331	576	330	629	668
85°	125	62	104	64	125	157
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°	2411.3	2411.3	2411.3	2411.3	2411.3	2411.3	2411.3	2411.3	2411.3	2411.3	2411.3
2.5°	2464.8	2428.8	2429.3	2460.8	2436.6	2448.5	2414.7	2427.6	2423.7	2426.5	2399.0
5°	2503.6	2464.8	2464.2	2491.2	2464.2	2469.3	2426.5	2435.0	2422.6	2414.7	2384.9
7.5°	2544.6	2505.8	2501.9	2525.5	2490.1	2486.1	2438.9	2438.9	2416.4	2396.7	2368.6
10°	2585.1	2545.2	2540.1	2558.1	2514.3	2501.3	2444.0	2435.0	2405.1	2375.9	2345.5
12.5°	2615.5	2575.0	2571.1	2582.3	2532.8	2509.2	2444.0	2426.5	2382.6	2341.6	2318.0
15°	2644.2	2602.6	2591.9	2597.5	2540.7	2509.2	2436.1	2409.1	2352.8	2298.8	2271.3
17.5°	2664.4	2624.5	2613.8	2613.3	2544.6	2499.6	2419.2	2382.1	2314.6	2249.3	2221.8
20°	2684.7	2644.8	2631.3	2621.1	2543.5	2486.7	2394.5	2344.4	2265.6	2192.5	2169.5
22.5°	2694.8	2653.8	2639.1	2623.9	2536.2	2463.1	2364.1	2300.5	2210.5	2123.3	2104.2
25°	2696.5	2654.3	2638.6	2616.6	2521.6	2435.0	2324.7	2247.6	2147.0	2050.2	2033.9
27.5°	2692.0	2645.9	2630.1	2603.7	2499.6	2400.6	2278.0	2187.5	2079.5	1972.6	1955.2
30°	2676.3	2629.6	2614.4	2580.1	2468.7	2358.5	2226.8	2120.5	2004.7	1891.0	1875.9
32.5°	2644.8	2599.2	2586.8	2552.5	2435.0	2309.5	2167.2	2048.5	1922.0	1813.4	1790.9
35°	2598.6	2553.1	2545.2	2509.2	2387.7	2251.0	2102.0	1969.8	1834.2	1723.4	1701.5
37.5°	2538.4	2500.2	2488.4	2453.0	2332.0	2184.7	2027.2	1884.3	1744.8	1625.6	1612.1
40°	2462.5	2426.5	2417.5	2386.0	2267.3	2111.0	1946.2	1796.0	1652.6	1541.7	1522.6
42.5°	2375.9	2342.1	2337.1	2304.5	2187.5	2029.4	1858.4	1704.3	1556.4	1449.5	1430.4
45°	2277.5	2244.8	2243.7	2212.8	2100.3	1938.8	1766.2	1611.5	1462.4	1351.6	1341.5
47.5°	2168.9	2139.7	2139.7	2111.0	2003.0	1839.3	1671.1	1514.7	1367.9	1270.1	1252.1
50°	2050.8	2023.2	2014.8	2000.7	1895.5	1730.7	1571.0	1420.2	1274.6	1181.2	1163.8
52.5°	1924.8	1901.2	1906.8	1880.9	1779.1	1617.7	1469.7	1313.9	1180.6	1095.7	1078.3
55°	1792.0	1758.3	1763.4	1753.8	1657.6	1501.2	1356.1	1226.2	1088.4	1008.5	992.2
57.5°	1654.2	1610.4	1628.4	1622.7	1528.2	1382.0	1252.1	1126.6	996.7	923.0	907.3
60°	1513.1	1470.9	1489.4	1484.4	1395.5	1262.8	1144.6	1028.2	905.6	838.6	822.9
62.5°	1367.9	1329.1	1346.0	1342.1	1260.5	1140.7	1037.8	930.9	813.9	753.7	739.1
65°	1221.7	1184.6	1199.8	1196.9	1121.6	1030.5	928.1	830.2	721.7	669.3	654.7
67.5°	1072.1	1037.8	1051.8	1051.8	982.6	895.5	817.8	728.4	631.1	586.1	572.6
70°	923.6	891.5	903.9	902.8	844.3	773.4	706.5	626.6	539.4	502.3	491.0
72.5°	774.0	745.8	757.1	756.0	707.0	661.5	595.1	525.9	450.0	420.2	410.0
75°	628.8	602.4	613.1	612.0	572.0	529.3	484.9	427.5	362.2	341.4	331.3
77.5°	490.5	463.5	472.5	472.5	443.2	412.3	376.9	332.4	286.3	263.8	256.5
80°	357.7	344.8	340.3	340.9	321.2	300.9	282.9	240.2	206.4	191.2	186.2
82.5°	235.1	224.4	219.9	221.1	209.8	197.4	186.2	156.4	133.9	124.9	122.1
85°	124.9	117.0	113.1	115.9	113.6	106.9	101.2	81.0	66.9	63.6	61.9
87.5°	39.4	34.3	31.5	41.6	35.4	31.5	30.4	24.2	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°	2411.3	2411.3	2411.3	2411.3	2411.3	2411.3	2411.3	2411.3	2411.3	2411.3	2411.3
2.5°	2408.0	2408.0	2386.0	2381.0	2378.7	2381.5	2359.6	2355.6	2387.1	2376.5	2352.3
5°	2388.8	2387.7	2356.8	2351.1	2351.1	2347.8	2323.0	2317.4	2348.9	2339.9	2313.5
7.5°	2365.2	2361.8	2325.3	2321.3	2315.7	2313.5	2285.9	2282.0	2309.0	2303.3	2278.6
10°	2336.5	2333.1	2289.8	2287.0	2280.8	2276.3	2250.5	2247.6	2275.2	2266.2	2246.5
12.5°	2298.8	2292.6	2248.2	2245.4	2240.3	2238.6	2213.3	2212.2	2242.6	2233.6	2212.8
15°	2249.3	2244.3	2194.8	2195.9	2196.5	2196.5	2176.2	2175.1	2204.9	2201.0	2178.5
17.5°	2194.8	2188.0	2140.8	2144.2	2148.1	2152.6	2136.8	2139.7	2171.2	2166.1	2145.8
20°	2132.9	2126.2	2080.0	2089.6	2098.0	2107.0	2096.9	2104.8	2134.0	2131.8	2116.6
22.5°	2063.7	2057.0	2014.2	2028.8	2042.9	2059.8	2055.3	2064.3	2095.2	2094.7	2081.2
25°	1979.3	1981.0	1943.3	1961.3	1985.0	2008.6	2010.3	2024.9	2059.2	2055.8	2043.5
27.5°	1900.6	1902.9	1862.9	1893.3	1924.8	1955.2	1962.5	1982.7	2017.6	2014.8	2004.1
30°	1817.9	1820.7	1781.9	1823.5	1861.8	1898.9	1914.7	1942.2	1977.7	1977.7	1966.4
32.5°	1731.9	1736.9	1696.4	1752.1	1796.5	1839.9	1867.4	1896.1	1936.6	1935.5	1925.9
35°	1643.6	1649.2	1612.1	1682.9	1727.4	1780.2	1814.5	1852.8	1888.8	1889.4	1882.0
37.5°	1553.6	1560.3	1526.6	1604.2	1654.8	1717.2	1761.1	1799.4	1839.3	1841.5	1834.8
40°	1464.1	1471.4	1442.2	1517.0	1581.1	1650.9	1701.5	1746.5	1790.4	1791.5	1787.0
42.5°	1374.7	1382.6	1360.6	1433.7	1506.3	1581.1	1640.7	1691.9	1736.9	1739.7	1734.7
45°	1287.5	1294.3	1278.5	1358.4	1428.1	1509.7	1578.3	1636.2	1681.8	1685.7	1684.0
47.5°	1200.9	1207.1	1193.0	1266.1	1346.6	1433.2	1512.5	1576.6	1625.0	1629.5	1628.4
50°	1115.9	1121.0	1105.8	1182.3	1262.2	1354.4	1437.1	1511.4	1565.4	1569.9	1569.3
52.5°	1031.6	1036.6	1023.7	1104.1	1176.7	1274.0	1364.0	1444.4	1497.9	1504.6	1505.7
55°	950.0	952.3	942.1	1019.2	1089.5	1191.3	1294.8	1373.0	1426.4	1432.1	1435.4
57.5°	868.5	869.0	860.6	934.3	1001.8	1105.8	1214.4	1296.5	1347.1	1352.8	1357.8
60°	787.5	786.9	777.3	848.8	913.5	1016.4	1129.4	1211.0	1259.9	1265.0	1271.8
62.5°	707.0	705.3	696.9	762.7	823.5	925.3	1038.9	1117.6	1164.3	1167.7	1176.7
65°	627.2	625.5	617.6	678.3	733.5	830.8	942.1	1017.0	1059.1	1063.6	1062.0
67.5°	548.4	545.0	538.9	593.4	643.5	733.5	840.3	911.8	946.6	950.6	961.3
70°	469.7	465.7	451.7	509.6	553.5	633.9	733.5	797.0	826.3	830.2	828.5
72.5°	392.0	388.1	372.9	426.4	463.5	533.8	622.7	675.5	700.8	704.2	704.2
75°	316.7	314.4	304.9	345.4	376.3	433.7	509.0	552.9	572.6	576.5	575.4
77.5°	244.1	242.4	232.9	267.7	291.9	334.7	395.4	429.7	444.4	448.9	458.4
80°	174.9	174.4	159.2	193.5	204.2	240.2	284.6	311.0	318.9	325.1	331.9
82.5°	111.9	112.5	97.3	126.6	131.1	154.1	181.7	198.0	203.6	208.7	213.7
85°	54.6	56.8	48.4	66.9	67.5	79.3	91.1	97.3	99.6	103.5	108.0
87.5°	14.1	16.3	9.0	19.1	16.9	21.9	25.3	27.0	26.4	29.2	30.9
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°	2411.3	2411.3	2411.3	2411.3	2411.3	2411.3	2411.3	2411.3	2411.3	2411.3	2411.3
2.5°	2360.1	2378.1	2369.1	2398.4	2409.6	2391.6	2423.1	2423.7	2401.2	2427.6	2442.3
5°	2323.6	2342.1	2336.5	2366.9	2381.0	2365.2	2403.5	2410.8	2388.8	2418.6	2442.3
7.5°	2286.5	2308.4	2301.1	2332.0	2348.9	2336.5	2377.6	2389.4	2372.5	2405.1	2436.6
10°	2254.4	2273.0	2265.1	2297.7	2312.3	2302.2	2342.7	2364.6	2348.9	2388.8	2426.5
12.5°	2222.9	2238.1	2229.1	2256.1	2270.1	2257.2	2306.7	2327.0	2315.7	2357.3	2405.7
15°	2182.4	2199.3	2186.9	2211.1	2221.8	2210.5	2251.0	2285.9	2271.8	2317.4	2370.8
17.5°	2151.5	2161.0	2144.2	2163.3	2169.5	2154.3	2195.3	2229.6	2219.5	2269.0	2330.9
20°	2117.2	2125.0	2101.4	2112.1	2111.5	2092.4	2130.1	2163.8	2157.1	2211.6	2282.0
22.5°	2078.9	2082.8	2055.3	2057.5	2056.4	2024.9	2058.7	2093.0	2090.2	2145.3	2224.0
25°	2038.4	2039.0	2003.5	2002.4	1990.0	1952.9	1982.7	2021.5	2013.1	2072.7	2155.4
27.5°	1998.5	1992.8	1950.1	1940.0	1920.3	1875.9	1902.3	1937.2	1932.1	1990.6	2082.3
30°	1955.7	1948.4	1896.1	1877.5	1848.9	1797.7	1819.6	1852.2	1855.0	1906.2	2002.4
32.5°	1915.2	1896.7	1838.7	1811.7	1775.7	1716.1	1727.9	1761.1	1765.6	1817.4	1916.4
35°	1862.9	1850.5	1779.1	1733.0	1697.5	1632.3	1644.7	1667.7	1674.5	1725.1	1825.8
37.5°	1813.4	1793.7	1717.8	1661.5	1616.0	1547.4	1550.7	1574.4	1581.1	1632.3	1731.9
40°	1762.2	1734.1	1652.6	1586.7	1534.4	1462.4	1458.5	1483.2	1488.3	1538.4	1628.4
42.5°	1707.7	1673.9	1582.2	1510.2	1450.1	1376.9	1369.1	1390.4	1396.1	1445.0	1533.3
45°	1652.6	1612.1	1510.2	1431.5	1365.7	1290.9	1283.0	1299.3	1307.8	1353.9	1438.8
47.5°	1594.1	1546.8	1436.0	1348.3	1280.2	1205.4	1195.8	1212.1	1218.9	1264.4	1344.9
50°	1532.7	1475.4	1359.5	1262.8	1195.3	1121.6	1107.5	1126.6	1132.8	1175.6	1254.3
52.5°	1465.2	1401.7	1277.9	1176.7	1109.2	1038.9	1022.0	1040.6	1047.9	1089.5	1162.1
55°	1393.8	1325.2	1195.8	1097.4	1024.3	955.6	941.6	948.9	964.6	1004.0	1071.5
57.5°	1313.4	1245.3	1109.2	1009.1	938.8	873.0	861.1	867.9	882.5	920.8	981.5
60°	1227.9	1155.9	1020.9	920.8	852.7	790.3	779.6	785.8	801.5	836.4	892.6
62.5°	1143.5	1062.5	929.8	830.2	768.3	710.4	707.6	705.3	720.0	753.7	803.2
65°	1041.1	963.5	834.7	740.2	684.0	631.7	620.4	625.5	639.5	670.5	722.2
67.5°	931.5	861.1	737.4	650.2	600.2	553.5	543.9	546.2	560.8	587.8	632.8
70°	815.0	753.2	637.8	559.7	517.5	473.6	467.4	468.0	482.0	505.7	545.0
72.5°	693.0	637.3	537.2	470.2	435.4	403.9	398.2	391.5	404.4	424.7	458.4
75°	568.7	519.7	437.0	382.5	354.9	328.5	323.4	316.7	329.6	347.0	373.5
77.5°	443.2	403.9	339.7	297.5	276.2	256.5	252.0	244.7	257.6	270.6	291.4
80°	320.6	291.9	253.7	209.2	201.9	189.0	184.5	176.6	189.0	197.4	213.2
82.5°	207.0	187.9	165.9	135.0	133.9	124.3	122.1	113.1	124.3	129.4	141.2
85°	104.6	95.6	90.0	68.6	70.9	64.7	64.1	54.6	63.6	65.8	72.6
87.5°	29.8	31.5	28.1	16.9	21.4	20.2	20.2	14.6	20.2	20.2	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: P838014

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-5STD-40-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2411.3	2411.3	2411.3	2411.3	2411.3	2411.3	2411.3	2411.3
2.5°	2413.6	2423.1	2425.4	2424.8	2431.0	2464.8	2453.5	2464.8
5°	2419.2	2440.6	2446.2	2454.1	2464.2	2502.4	2490.1	2503.6
7.5°	2422.6	2454.6	2467.0	2482.2	2498.5	2541.3	2531.1	2544.6
10°	2422.6	2464.2	2482.2	2507.5	2529.4	2578.9	2569.4	2585.1
12.5°	2412.5	2465.9	2491.2	2526.6	2554.8	2608.2	2604.3	2615.5
15°	2391.6	2457.5	2492.3	2537.9	2572.8	2632.4	2630.7	2644.2
17.5°	2363.5	2442.8	2485.0	2542.4	2586.3	2653.2	2657.1	2664.4
20°	2328.1	2415.3	2470.4	2540.7	2595.8	2669.5	2674.6	2684.7
22.5°	2281.4	2382.1	2448.5	2533.4	2596.9	2676.3	2685.3	2694.8
25°	2226.3	2342.1	2419.8	2519.3	2591.3	2675.7	2688.1	2696.5
27.5°	2163.3	2290.4	2383.2	2496.8	2575.6	2666.7	2681.9	2692.0
30°	2090.2	2235.3	2341.6	2467.6	2554.2	2649.8	2666.1	2676.3
32.5°	2014.8	2174.5	2292.1	2429.9	2523.3	2622.8	2636.9	2644.8
35°	1932.7	2100.8	2232.5	2381.5	2483.3	2579.5	2590.2	2598.6
37.5°	1843.2	2021.0	2164.4	2327.0	2427.1	2519.3	2528.9	2538.4
40°	1751.0	1937.2	2087.9	2260.0	2360.1	2445.6	2455.8	2462.5
42.5°	1658.2	1844.4	2006.3	2181.3	2280.8	2363.0	2369.1	2375.9
45°	1564.2	1748.2	1914.7	2094.1	2192.5	2269.6	2271.8	2277.5
47.5°	1468.6	1648.6	1814.0	1994.5	2091.8	2162.2	2164.4	2168.9
50°	1372.4	1549.1	1706.5	1887.1	1982.2	2056.4	2046.3	2050.8
52.5°	1277.9	1444.4	1605.3	1771.2	1865.2	1931.0	1933.8	1924.8
55°	1185.1	1342.1	1490.0	1649.7	1739.2	1790.4	1788.7	1792.0
57.5°	1091.2	1238.6	1374.1	1520.4	1607.6	1655.9	1666.0	1654.2
60°	995.6	1133.9	1255.4	1387.6	1472.0	1512.5	1524.3	1513.1
62.5°	900.5	1027.6	1137.9	1253.2	1331.4	1381.4	1380.3	1367.9
65°	805.5	920.8	1019.2	1117.1	1185.1	1235.2	1232.9	1221.7
67.5°	717.7	812.8	901.1	980.4	1039.5	1073.8	1085.6	1072.1
70°	621.0	703.1	780.7	844.3	893.2	924.1	935.4	923.6
72.5°	524.2	594.0	648.5	709.8	747.5	773.4	785.2	774.0
75°	428.6	486.0	530.4	578.2	604.7	626.6	640.1	628.8
77.5°	335.8	380.2	415.7	450.5	480.9	486.0	497.8	490.5
80°	247.5	279.5	305.4	328.5	350.4	352.7	362.2	357.7
82.5°	164.8	186.2	192.9	217.1	231.2	228.9	238.5	235.1
85°	87.2	100.1	111.9	119.2	127.1	119.8	128.2	124.9
87.5°	29.2	30.9	27.0	38.2	42.2	36.0	41.1	39.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)