

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: P838046

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-4LO-20-120-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: P838046
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-ASY2R-LD4-4LO-20-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and RFI grid
Light Source: 2000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

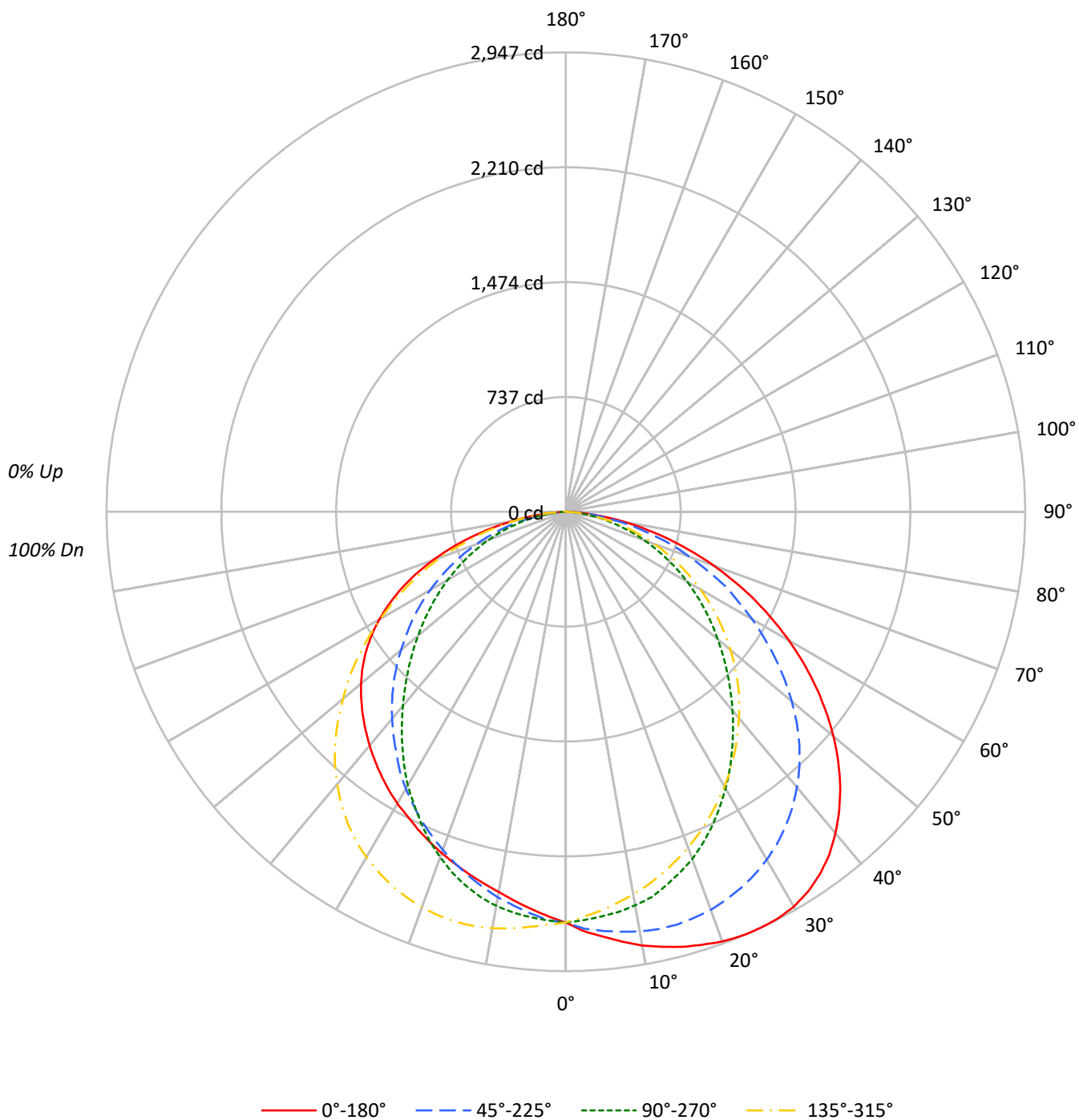
Lumens per Lamp: N/A
Luminaire Lumens: 7732.2 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 93.6
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°	3546	3546	3546	3546
5°	3696	3521	3454	3526
10°	3860	3503	3384	3508
15°	4026	3458	3351	3459
20°	4201	3395	3336	3376
25°	4375	3300	3336	3266
30°	4544	3185	3358	3150
35°	4665	3055	3392	3006
40°	4727	2923	3439	2857
45°	4736	2790	3506	2720
50°	4692	2662	3592	2592
55°	4594	2544	3672	2473
60°	4450	2420	3721	2357
65°	4251	2278	3701	2225
70°	3971	2111	3570	2073
75°	3573	1882	3276	1873
80°	3030	1577	2753	1601
85°	2107	1044	1746	1073

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.2	3.2
10°-20°	724.6	9.4
20°-30°	1110.5	14.4
30°-40°	1350.2	17.5
40°-50°	1403.7	18.2
50°-60°	1267.9	16.4
60°-70°	964.0	12.5
70°-80°	537.4	7.0
80°-90°	123.7	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°	2085.3	27.0
0°-40°	3435.5	44.4
0°-60°	6107.1	79.0
0°-90°	7732.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7732.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2636	2636	2636	2636	2636	
5°	2736	2607	2557	2611	2736	264
15°	2890	2482	2406	2483	2890	819
25°	2947	2223	2247	2200	2947	1361
35°	2840	1860	2065	1830	2840	1774
45°	2489	1466	1842	1429	2489	1916
55°	1959	1084	1565	1054	1959	1748
65°	1335	716	1162	699	1335	1319
75°	687	362	630	360	687	730
85°	136	68	113	70	136	172
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°	2635.5	2635.5	2635.5	2635.5	2635.5	2635.5	2635.5	2635.5	2635.5	2635.5	2635.5
2.5°	2693.9	2654.6	2655.2	2689.6	2663.2	2676.1	2639.2	2653.3	2649.0	2652.1	2622.0
5°	2736.3	2693.9	2693.3	2722.8	2693.3	2698.8	2652.1	2661.3	2647.8	2639.2	2606.6
7.5°	2781.2	2738.8	2734.5	2760.3	2721.6	2717.3	2665.6	2665.6	2641.0	2619.5	2588.8
10°	2825.5	2781.8	2776.3	2795.9	2748.0	2733.9	2671.1	2661.3	2628.7	2596.8	2563.6
12.5°	2858.7	2814.4	2810.1	2822.4	2768.3	2742.5	2671.1	2652.1	2604.1	2559.3	2533.4
15°	2890.0	2844.5	2832.8	2839.0	2776.9	2742.5	2662.5	2633.0	2571.6	2512.5	2482.4
17.5°	2912.1	2868.5	2856.8	2856.2	2781.2	2732.0	2644.1	2603.5	2529.8	2458.4	2428.3
20°	2934.3	2890.6	2875.9	2864.8	2780.0	2717.9	2617.1	2562.3	2476.3	2396.4	2371.1
22.5°	2945.3	2900.5	2884.5	2867.9	2772.0	2692.1	2583.9	2514.4	2416.0	2320.7	2299.8
25°	2947.2	2901.1	2883.9	2859.9	2756.0	2661.3	2540.8	2456.6	2346.6	2240.8	2223.0
27.5°	2942.3	2891.8	2874.6	2845.7	2732.0	2623.8	2489.8	2390.8	2272.8	2156.0	2136.9
30°	2925.0	2874.0	2857.4	2819.9	2698.2	2577.7	2433.9	2317.7	2191.0	2066.8	2050.2
32.5°	2890.6	2840.8	2827.3	2789.8	2661.3	2524.2	2368.7	2239.0	2100.6	1982.0	1957.4
35°	2840.2	2790.4	2781.8	2742.5	2609.7	2460.3	2297.4	2152.9	2004.7	1883.6	1859.7
37.5°	2774.4	2732.6	2719.7	2681.0	2548.8	2387.7	2215.6	2059.5	1907.0	1776.7	1761.9
40°	2691.4	2652.1	2642.3	2607.8	2478.1	2307.2	2127.1	1962.9	1806.2	1685.1	1664.2
42.5°	2596.8	2559.9	2554.3	2518.7	2390.8	2218.1	2031.2	1862.7	1701.1	1584.2	1563.3
45°	2489.2	2453.5	2452.3	2418.5	2295.5	2119.1	1930.4	1761.3	1598.4	1477.3	1466.2
47.5°	2370.5	2338.6	2338.6	2307.2	2189.2	2010.3	1826.5	1655.6	1495.1	1388.1	1368.5
50°	2241.4	2211.3	2202.1	2186.7	2071.8	1891.6	1717.0	1552.3	1393.1	1291.0	1271.9
52.5°	2103.7	2077.9	2084.1	2055.8	1944.5	1768.1	1606.4	1436.1	1290.4	1197.6	1178.5
55°	1958.6	1921.8	1927.3	1916.8	1811.7	1640.8	1482.2	1340.2	1189.6	1102.3	1084.4
57.5°	1808.0	1760.1	1779.7	1773.6	1670.3	1510.5	1368.5	1231.4	1089.4	1008.8	991.6
60°	1653.7	1607.6	1627.9	1622.4	1525.2	1380.1	1251.0	1123.8	989.8	916.6	899.4
62.5°	1495.1	1452.7	1471.1	1466.8	1377.7	1246.7	1134.2	1017.4	889.6	823.8	807.8
65°	1335.3	1294.7	1311.3	1308.2	1225.8	1126.2	1014.4	907.4	788.7	731.6	715.6
67.5°	1171.7	1134.2	1149.6	1149.6	1074.0	978.7	893.9	796.1	689.8	640.6	625.8
70°	1009.4	974.4	987.9	986.7	922.8	845.3	772.1	684.8	589.6	549.0	536.7
72.5°	845.9	815.2	827.5	826.2	772.8	723.0	650.4	574.8	491.8	459.2	448.2
75°	687.3	658.4	670.1	668.9	625.2	578.5	529.9	467.2	395.9	373.2	362.1
77.5°	536.1	506.6	516.4	516.4	484.4	450.6	411.9	363.3	312.9	288.3	280.3
80°	391.0	376.9	371.9	372.5	351.0	328.9	309.2	262.5	225.6	209.0	203.5
82.5°	257.0	245.3	240.4	241.6	229.3	215.8	203.5	170.9	146.3	136.5	133.4
85°	136.5	127.9	123.6	126.6	124.2	116.8	110.7	88.5	73.2	69.5	67.6
87.5°	43.0	37.5	34.4	45.5	38.7	34.4	33.2	26.4	20.3	20.3	19.7
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	2635.5	2635.5	2635.5	2635.5	2635.5	2635.5	2635.5	2635.5	2635.5	2635.5	2635.5
2.5°	2631.8	2631.8	2607.8	2602.3	2599.8	2602.9	2578.9	2574.6	2609.1	2597.4	2570.9
5°	2610.9	2609.7	2575.9	2569.7	2569.7	2566.0	2539.0	2532.8	2567.3	2557.4	2528.5
7.5°	2585.1	2581.4	2541.4	2537.1	2531.0	2528.5	2498.4	2494.1	2523.6	2517.5	2490.4
10°	2553.7	2550.0	2502.7	2499.6	2492.9	2487.9	2459.7	2456.6	2486.7	2476.9	2455.4
12.5°	2512.5	2505.8	2457.2	2454.1	2448.6	2446.8	2419.1	2417.9	2451.1	2441.2	2418.5
15°	2458.4	2452.9	2398.8	2400.0	2400.7	2400.7	2378.5	2377.3	2409.9	2405.6	2381.0
17.5°	2398.8	2391.4	2339.8	2343.5	2347.8	2352.7	2335.5	2338.6	2373.0	2367.5	2345.3
20°	2331.2	2323.8	2273.4	2283.8	2293.1	2302.9	2291.8	2300.4	2332.4	2330.0	2313.4
22.5°	2255.6	2248.2	2201.5	2217.5	2232.8	2251.3	2246.3	2256.2	2290.0	2289.4	2274.6
25°	2163.4	2165.2	2124.0	2143.7	2169.5	2195.3	2197.2	2213.2	2250.7	2247.0	2233.4
27.5°	2077.3	2079.7	2036.1	2069.3	2103.7	2136.9	2144.9	2167.0	2205.2	2202.1	2190.4
30°	1986.9	1990.0	1947.6	1993.1	2034.9	2075.4	2092.7	2122.8	2161.5	2161.5	2149.2
32.5°	1892.9	1898.4	1854.1	1915.0	1963.6	2010.9	2041.0	2072.4	2116.6	2115.4	2105.0
35°	1796.3	1802.5	1761.9	1839.4	1887.9	1945.7	1983.2	2025.0	2064.4	2065.0	2057.0
37.5°	1698.0	1705.4	1668.5	1753.3	1808.6	1876.9	1924.8	1966.6	2010.3	2012.7	2005.4
40°	1600.2	1608.2	1576.3	1658.0	1728.1	1804.3	1859.7	1908.8	1956.8	1958.0	1953.1
42.5°	1502.5	1511.1	1487.1	1567.0	1646.3	1728.1	1793.3	1849.2	1898.4	1901.5	1895.9
45°	1407.2	1414.6	1397.4	1484.7	1560.9	1650.0	1725.0	1788.3	1838.1	1842.4	1840.6
47.5°	1312.5	1319.3	1303.9	1383.8	1471.7	1566.4	1653.1	1723.2	1776.1	1781.0	1779.7
50°	1219.7	1225.2	1208.6	1292.2	1379.5	1480.4	1570.7	1651.9	1710.9	1715.8	1715.2
52.5°	1127.5	1133.0	1118.9	1206.8	1286.1	1392.4	1490.8	1578.7	1637.1	1644.5	1645.7
55°	1038.3	1040.8	1029.7	1114.0	1190.8	1302.1	1415.2	1500.6	1559.0	1565.2	1568.9
57.5°	949.2	949.8	940.6	1021.1	1094.9	1208.6	1327.3	1417.0	1472.4	1478.5	1484.0
60°	860.7	860.1	849.6	927.7	998.4	1110.9	1234.4	1323.6	1377.1	1382.6	1390.0
62.5°	772.8	770.9	761.7	833.6	900.0	1011.3	1135.5	1221.5	1272.6	1276.3	1286.1
65°	685.5	683.6	675.0	741.4	801.7	908.0	1029.7	1111.5	1157.6	1162.5	1160.7
67.5°	599.4	595.7	588.9	648.6	703.3	801.7	918.5	996.5	1034.6	1039.0	1050.6
70°	513.3	509.0	493.7	557.0	604.9	692.8	801.7	871.1	903.1	907.4	905.5
72.5°	428.5	424.2	407.6	466.0	506.6	583.4	680.5	738.3	766.0	769.7	769.7
75°	346.1	343.7	333.2	377.5	411.3	474.0	556.4	604.3	625.8	630.1	628.9
77.5°	266.8	265.0	254.5	292.6	319.1	365.8	432.2	469.7	485.7	490.6	501.0
80°	191.2	190.6	174.0	211.5	223.2	262.5	311.1	340.0	348.6	355.3	362.7
82.5°	122.3	123.0	106.4	138.3	143.2	168.4	198.6	216.4	222.5	228.1	233.6
85°	59.6	62.1	52.9	73.2	73.8	86.7	99.6	106.4	108.8	113.1	118.0
87.5°	15.4	17.8	9.8	20.9	18.4	24.0	27.7	29.5	28.9	32.0	33.8
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°	2635.5	2635.5	2635.5	2635.5	2635.5	2635.5	2635.5	2635.5	2635.5	2635.5	2635.5
2.5°	2579.5	2599.2	2589.4	2621.4	2633.6	2614.0	2648.4	2649.0	2624.4	2653.3	2669.3
5°	2539.6	2559.9	2553.7	2586.9	2602.3	2585.1	2626.9	2634.9	2610.9	2643.5	2669.3
7.5°	2499.0	2523.0	2515.0	2548.8	2567.3	2553.7	2598.6	2611.5	2593.1	2628.7	2663.2
10°	2464.0	2484.3	2475.7	2511.3	2527.3	2516.2	2560.5	2584.5	2567.3	2610.9	2652.1
12.5°	2429.5	2446.1	2436.3	2465.8	2481.2	2467.0	2521.1	2543.3	2531.0	2576.5	2629.3
15°	2385.3	2403.7	2390.2	2416.6	2428.3	2416.0	2460.3	2498.4	2483.0	2532.8	2591.2
17.5°	2351.5	2361.9	2343.5	2364.4	2371.1	2354.5	2399.4	2436.9	2425.9	2480.0	2547.6
20°	2314.0	2322.6	2296.8	2308.4	2307.8	2286.9	2328.1	2365.0	2357.6	2417.3	2494.1
22.5°	2272.2	2276.5	2246.3	2248.8	2247.6	2213.2	2250.0	2287.5	2284.5	2344.7	2430.8
25°	2227.9	2228.5	2189.8	2188.6	2175.0	2134.5	2167.0	2209.5	2200.2	2265.4	2355.8
27.5°	2184.3	2178.1	2131.4	2120.3	2098.8	2050.2	2079.1	2117.2	2111.7	2175.6	2275.9
30°	2137.5	2129.5	2072.4	2052.1	2020.7	1964.8	1988.8	2024.4	2027.5	2083.4	2188.6
32.5°	2093.3	2073.0	2009.7	1980.2	1940.8	1875.6	1888.6	1924.8	1929.7	1986.3	2094.5
35°	2036.1	2022.6	1944.5	1894.1	1855.4	1784.0	1797.6	1822.8	1830.2	1885.5	1995.5
37.5°	1982.0	1960.5	1877.5	1816.0	1766.2	1691.2	1694.9	1720.7	1728.1	1784.0	1892.9
40°	1926.1	1895.3	1806.2	1734.2	1677.1	1598.4	1594.1	1621.1	1626.7	1681.4	1779.7
42.5°	1866.4	1829.5	1729.3	1650.6	1584.9	1504.9	1496.3	1519.7	1525.8	1579.3	1675.8
45°	1806.2	1761.9	1650.6	1564.6	1492.6	1410.9	1402.3	1420.1	1429.3	1479.7	1572.6
47.5°	1742.2	1690.6	1569.5	1473.6	1399.2	1317.4	1307.0	1324.8	1332.2	1382.0	1469.9
50°	1675.2	1612.5	1485.9	1380.1	1306.4	1225.8	1210.5	1231.4	1238.1	1284.9	1370.9
52.5°	1601.5	1532.0	1396.7	1286.1	1212.3	1135.5	1117.0	1137.3	1145.3	1190.8	1270.1
55°	1523.4	1448.4	1307.0	1199.4	1119.5	1044.5	1029.1	1037.1	1054.3	1097.4	1171.1
57.5°	1435.5	1361.1	1212.3	1102.9	1026.0	954.1	941.2	948.6	964.6	1006.4	1072.8
60°	1342.0	1263.3	1115.8	1006.4	932.0	863.7	852.1	858.8	876.0	914.2	975.6
62.5°	1249.8	1161.3	1016.2	907.4	839.8	776.4	773.4	770.9	786.9	823.8	877.9
65°	1137.9	1053.1	912.3	809.0	747.6	690.4	678.1	683.6	699.0	732.8	789.4
67.5°	1018.0	941.2	806.0	710.7	656.0	604.9	594.5	596.9	612.9	642.4	691.6
70°	890.8	823.2	697.1	611.7	565.6	517.6	510.9	511.5	526.9	552.7	595.7
72.5°	757.4	696.5	587.1	513.9	475.8	441.4	435.3	427.9	442.0	464.1	501.0
75°	621.5	568.0	477.7	418.0	387.9	359.0	353.5	346.1	360.3	379.3	408.2
77.5°	484.4	441.4	371.3	325.2	301.8	280.3	275.4	267.4	281.6	295.7	318.4
80°	350.4	319.1	277.3	228.7	220.7	206.6	201.6	193.0	206.6	215.8	233.0
82.5°	226.2	205.3	181.4	147.5	146.3	135.9	133.4	123.6	135.9	141.4	154.3
85°	114.3	104.5	98.4	75.0	77.5	70.7	70.1	59.6	69.5	71.9	79.3
87.5°	32.6	34.4	30.7	18.4	23.4	22.1	22.1	16.0	22.1	22.1	25.2
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: P838046

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-4LO-20-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2635.5	2635.5	2635.5	2635.5	2635.5	2635.5	2635.5	2635.5
2.5°	2638.0	2648.4	2650.9	2650.2	2657.0	2693.9	2681.6	2693.9
5°	2644.1	2667.5	2673.6	2682.2	2693.3	2735.1	2721.6	2736.3
7.5°	2647.8	2682.8	2696.4	2713.0	2730.8	2777.5	2766.4	2781.2
10°	2647.8	2693.3	2713.0	2740.6	2764.6	2818.7	2808.2	2825.5
12.5°	2636.7	2695.1	2722.8	2761.5	2792.3	2850.7	2846.4	2858.7
15°	2614.0	2685.9	2724.0	2773.8	2811.9	2877.1	2875.3	2890.0
17.5°	2583.2	2669.9	2716.0	2778.7	2826.7	2899.8	2904.1	2912.1
20°	2544.5	2639.8	2700.0	2776.9	2837.1	2917.7	2923.2	2934.3
22.5°	2493.5	2603.5	2676.1	2768.9	2838.4	2925.0	2934.9	2945.3
25°	2433.2	2559.9	2644.7	2753.5	2832.2	2924.4	2938.0	2947.2
27.5°	2364.4	2503.3	2604.8	2728.9	2815.0	2914.6	2931.2	2942.3
30°	2284.5	2443.1	2559.3	2697.0	2791.6	2896.2	2914.0	2925.0
32.5°	2202.1	2376.7	2505.2	2655.8	2757.8	2866.6	2882.0	2890.6
35°	2112.3	2296.1	2440.0	2602.9	2714.2	2819.3	2831.0	2840.2
37.5°	2014.6	2208.8	2365.6	2543.3	2652.7	2753.5	2764.0	2774.4
40°	1913.8	2117.2	2282.0	2470.1	2579.5	2673.0	2684.1	2691.4
42.5°	1812.3	2015.8	2192.9	2384.1	2492.9	2582.6	2589.4	2596.8
45°	1709.7	1910.7	2092.7	2288.8	2396.4	2480.6	2483.0	2489.2
47.5°	1605.1	1801.9	1982.6	2180.0	2286.3	2363.2	2365.6	2370.5
50°	1500.0	1693.1	1865.2	2062.5	2166.4	2247.6	2236.5	2241.4
52.5°	1396.7	1578.7	1754.5	1935.9	2038.6	2110.5	2113.6	2103.7
55°	1295.3	1466.8	1628.5	1803.1	1900.9	1956.8	1954.9	1958.6
57.5°	1192.6	1353.7	1501.9	1661.7	1757.0	1809.9	1820.9	1808.0
60°	1088.1	1239.4	1372.2	1516.6	1608.8	1653.1	1666.0	1653.7
62.5°	984.2	1123.2	1243.7	1369.7	1455.1	1509.9	1508.6	1495.1
65°	880.3	1006.4	1114.0	1220.9	1295.3	1350.0	1347.6	1335.3
67.5°	784.4	888.3	984.9	1071.5	1136.1	1173.6	1186.5	1171.7
70°	678.7	768.5	853.3	922.8	976.2	1010.1	1022.4	1009.4
72.5°	573.0	649.2	708.8	775.8	817.0	845.3	858.2	845.9
75°	468.5	531.2	579.7	632.0	660.9	684.8	699.6	687.3
77.5°	367.0	415.6	454.3	492.4	525.6	531.2	544.1	536.1
80°	270.5	305.5	333.8	359.0	383.0	385.5	395.9	391.0
82.5°	180.1	203.5	210.9	237.3	252.7	250.2	260.7	257.0
85°	95.3	109.4	122.3	130.3	138.9	130.9	140.2	136.5
87.5°	32.0	33.8	29.5	41.8	46.1	39.3	44.9	43.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)