

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: P837906

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-5STD-40-120-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: P837906
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
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and RFI grid
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

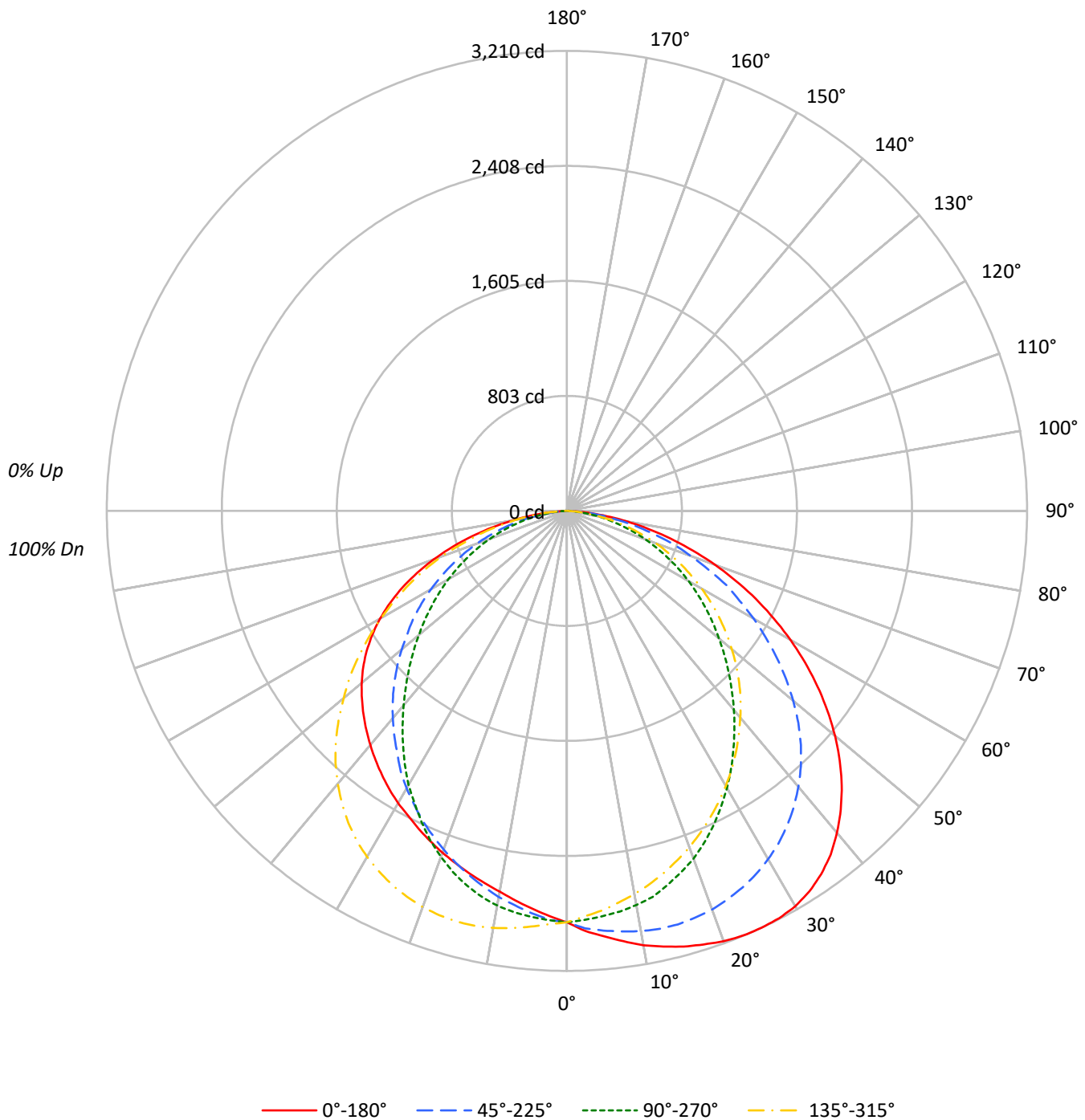
Lumens per Lamp: N/A
Luminaire Lumens: 8422.0 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	7725	7725	7725	7725
5°	8051	7669	7525	7682
10°	8409	7630	7372	7641
15°	8769	7533	7300	7535
20°	9153	7396	7267	7354
25°	9531	7189	7267	7116
30°	9900	6939	7316	6862
35°	10163	6654	7389	6548
40°	10298	6367	7492	6224
45°	10318	6078	7637	5925
50°	10221	5800	7824	5646
55°	10009	5542	7998	5388
60°	9695	5272	8105	5135
65°	9261	4963	8062	4848
70°	8651	4600	7776	4515
75°	7783	4101	7137	4080
80°	6600	3434	5997	3487
85°	4591	2276	3804	2337

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.5	3.2
10°-20°	789.2	9.4
20°-30°	1209.5	14.4
30°-40°	1470.7	17.5
40°-50°	1528.9	18.2
50°-60°	1381.0	16.4
60°-70°	1050.0	12.5
70°-80°	585.3	7.0
80°-90°	134.8	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°	2271.3	27.0
0°-40°	3742.0	44.4
0°-60°	6652.0	79.0
0°-90°	8422.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8422.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2871	2871	2871	2871	2871	
5°	2980	2839	2786	2844	2980	287
15°	3148	2704	2620	2705	3148	893
25°	3210	2421	2447	2396	3210	1483
35°	3094	2026	2249	1993	3094	1932
45°	2711	1597	2007	1557	2711	2087
55°	2133	1181	1705	1148	2133	1904
65°	1454	779	1266	761	1454	1437
75°	749	394	686	392	749	795
85°	149	74	123	76	149	187
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°	2870.6	2870.6	2870.6	2870.6	2870.6	2870.6	2870.6	2870.6	2870.6	2870.6	2870.6
2.5°	2934.2	2891.4	2892.1	2929.6	2900.8	2914.8	2874.6	2890.0	2885.4	2888.7	2855.9
5°	2980.4	2934.2	2933.6	2965.7	2933.6	2939.6	2888.7	2898.8	2884.0	2874.6	2839.2
7.5°	3029.3	2983.1	2978.4	3006.6	2964.4	2959.7	2903.4	2903.4	2876.7	2853.2	2819.7
10°	3077.5	3030.0	3024.0	3045.4	2993.2	2977.8	2909.5	2898.8	2863.3	2828.4	2792.3
12.5°	3113.7	3065.5	3060.8	3074.2	3015.3	2987.1	2909.5	2888.7	2836.5	2787.6	2759.5
15°	3147.8	3098.3	3085.6	3092.3	3024.6	2987.1	2900.1	2868.0	2801.0	2736.7	2703.9
17.5°	3172.0	3124.4	3111.7	3111.0	3029.3	2975.8	2880.0	2835.8	2755.5	2677.8	2645.0
20°	3196.1	3148.5	3132.4	3120.4	3028.0	2960.4	2850.5	2790.9	2697.2	2610.1	2582.7
22.5°	3208.1	3159.2	3141.8	3123.7	3019.3	2932.2	2814.4	2738.7	2631.6	2527.8	2505.0
25°	3210.1	3159.9	3141.2	3115.0	3001.9	2898.8	2767.5	2675.8	2555.9	2440.7	2421.3
27.5°	3204.8	3149.9	3131.1	3099.6	2975.8	2857.9	2711.9	2604.1	2475.6	2348.3	2327.6
30°	3186.0	3130.4	3112.4	3071.5	2938.9	2807.7	2651.0	2524.4	2386.5	2251.2	2233.2
32.5°	3148.5	3094.3	3079.5	3038.7	2898.8	2749.4	2580.0	2438.7	2288.1	2158.8	2132.0
35°	3093.6	3039.4	3030.0	2987.1	2842.5	2679.8	2502.3	2345.0	2183.6	2051.7	2025.6
37.5°	3022.0	2976.4	2962.4	2920.2	2776.2	2600.8	2413.3	2243.2	2077.1	1935.2	1919.1
40°	2931.6	2888.7	2878.0	2840.5	2699.2	2513.1	2316.9	2138.1	1967.3	1835.4	1812.6
42.5°	2828.4	2788.3	2782.2	2743.4	2604.1	2416.0	2212.4	2028.9	1852.8	1725.6	1702.8
45°	2711.3	2672.4	2671.1	2634.3	2500.3	2308.2	2102.6	1918.4	1741.0	1609.1	1597.0
47.5°	2582.0	2547.2	2547.2	2513.1	2384.5	2189.6	1989.4	1803.3	1628.5	1512.0	1490.6
50°	2441.4	2408.6	2398.6	2381.8	2256.6	2060.4	1870.2	1690.8	1517.3	1406.2	1385.4
52.5°	2291.4	2263.3	2270.0	2239.2	2118.0	1925.8	1749.7	1564.2	1405.5	1304.4	1283.6
55°	2133.4	2093.2	2099.2	2087.9	1973.3	1787.2	1614.4	1459.8	1295.7	1200.6	1181.2
57.5°	1969.3	1917.1	1938.5	1931.8	1819.3	1645.2	1490.6	1341.2	1186.6	1098.8	1080.1
60°	1801.3	1751.0	1773.1	1767.1	1661.3	1503.3	1362.7	1224.1	1078.1	998.4	979.6
62.5°	1628.5	1582.3	1602.4	1597.7	1500.6	1358.0	1235.4	1108.2	968.9	897.3	879.9
65°	1454.4	1410.2	1428.3	1424.9	1335.2	1226.7	1104.9	988.3	859.1	796.8	779.4
67.5°	1276.3	1235.4	1252.2	1252.2	1169.8	1066.0	973.6	867.1	751.3	697.7	681.7
70°	1099.5	1061.3	1076.1	1074.7	1005.1	920.7	841.0	745.9	642.2	598.0	584.6
72.5°	921.4	887.9	901.3	900.0	841.7	787.5	708.4	626.1	535.7	500.2	488.1
75°	748.6	717.2	729.9	728.5	681.0	630.1	577.2	508.9	431.2	406.5	394.4
77.5°	583.9	551.8	562.5	562.5	527.7	490.8	448.6	395.7	340.8	314.0	305.3
80°	425.9	410.5	405.1	405.8	382.3	358.2	336.8	285.9	245.7	227.7	221.6
82.5°	279.9	267.2	261.8	263.2	249.8	235.0	221.6	186.2	159.4	148.7	145.3
85°	148.7	139.3	134.6	137.9	135.3	127.2	120.5	96.4	79.7	75.7	73.7
87.5°	46.9	40.8	37.5	49.6	42.2	37.5	36.2	28.8	22.1	22.1	21.4
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°	2870.6	2870.6	2870.6	2870.6	2870.6	2870.6	2870.6	2870.6	2870.6	2870.6	2870.6
2.5°	2866.6	2866.6	2840.5	2834.5	2831.8	2835.1	2809.0	2804.3	2841.8	2829.1	2800.3
5°	2843.8	2842.5	2805.7	2799.0	2799.0	2795.0	2765.5	2758.8	2796.3	2785.6	2754.1
7.5°	2815.7	2811.7	2768.2	2763.5	2756.8	2754.1	2721.3	2716.6	2748.8	2742.1	2712.6
10°	2781.6	2777.6	2726.0	2722.6	2715.3	2709.9	2679.1	2675.8	2708.6	2697.9	2674.4
12.5°	2736.7	2729.3	2676.4	2673.1	2667.1	2665.1	2634.9	2633.6	2669.7	2659.0	2634.3
15°	2677.8	2671.8	2612.8	2614.2	2614.8	2614.8	2590.7	2589.4	2624.9	2620.2	2593.4
17.5°	2612.8	2604.8	2548.5	2552.6	2557.3	2562.6	2543.9	2547.2	2584.7	2578.7	2554.6
20°	2539.2	2531.1	2476.2	2487.6	2497.7	2508.4	2496.3	2505.7	2540.5	2537.8	2519.8
22.5°	2456.8	2448.8	2397.9	2415.3	2432.0	2452.1	2446.8	2457.5	2494.3	2493.6	2477.6
25°	2356.4	2358.4	2313.5	2334.9	2363.1	2391.2	2393.2	2410.6	2451.5	2447.4	2432.7
27.5°	2262.6	2265.3	2217.8	2253.9	2291.4	2327.6	2336.3	2360.4	2401.9	2398.6	2385.8
30°	2164.2	2167.5	2121.3	2170.9	2216.4	2260.6	2279.4	2312.2	2354.4	2354.4	2341.0
32.5°	2061.7	2067.8	2019.6	2085.8	2138.7	2190.3	2223.1	2257.3	2305.5	2304.1	2292.8
35°	1956.6	1963.3	1919.1	2003.5	2056.4	2119.3	2160.2	2205.7	2248.6	2249.2	2240.5
37.5°	1849.5	1857.5	1817.3	1909.7	1970.0	2044.3	2096.6	2142.1	2189.6	2192.3	2184.3
40°	1743.0	1751.7	1716.9	1805.9	1882.3	1965.3	2025.6	2079.1	2131.4	2132.7	2127.4
42.5°	1636.5	1645.9	1619.8	1706.8	1793.2	1882.3	1953.3	2014.2	2067.8	2071.1	2065.1
45°	1532.7	1540.8	1522.0	1617.1	1700.1	1797.2	1878.9	1947.9	2002.1	2006.8	2004.8
47.5°	1429.6	1437.0	1420.2	1507.3	1603.1	1706.2	1800.6	1876.9	1934.5	1939.9	1938.5
50°	1328.5	1334.5	1316.5	1407.5	1502.6	1612.4	1710.9	1799.2	1863.5	1868.9	1868.2
52.5°	1228.1	1234.1	1218.7	1314.4	1400.8	1516.7	1623.8	1719.6	1783.2	1791.2	1792.6
55°	1131.0	1133.7	1121.6	1213.3	1297.0	1418.2	1541.4	1634.5	1698.1	1704.8	1708.9
57.5°	1033.9	1034.6	1024.5	1112.2	1192.6	1316.5	1445.7	1543.5	1603.7	1610.4	1616.4
60°	937.5	936.8	925.4	1010.4	1087.5	1210.0	1344.6	1441.7	1499.9	1506.0	1514.0
62.5°	841.7	839.7	829.6	908.0	980.3	1101.5	1236.8	1330.5	1386.1	1390.1	1400.8
65°	746.6	744.6	735.2	807.6	873.2	989.0	1121.6	1210.7	1260.9	1266.2	1264.2
67.5°	652.9	648.9	641.5	706.4	766.0	873.2	1000.4	1085.4	1127.0	1131.6	1144.4
70°	559.1	554.4	537.7	606.7	658.9	754.7	873.2	948.8	983.7	988.3	986.3
72.5°	466.7	462.0	444.0	507.6	551.8	635.5	741.3	804.2	834.3	838.4	838.4
75°	377.0	374.3	362.9	411.1	448.0	516.3	606.0	658.2	681.7	686.4	685.0
77.5°	290.6	288.6	277.2	318.7	347.5	398.4	470.7	511.6	529.0	534.4	545.7
80°	208.2	207.6	189.5	230.3	243.1	285.9	338.8	370.3	379.7	387.0	395.1
82.5°	133.3	133.9	115.8	150.7	156.0	183.5	216.3	235.7	242.4	248.4	254.5
85°	65.0	67.6	57.6	79.7	80.4	94.4	108.5	115.8	118.5	123.2	128.6
87.5°	16.7	19.4	10.7	22.8	20.1	26.1	30.1	32.1	31.5	34.8	36.8
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°	2870.6	2870.6	2870.6	2870.6	2870.6	2870.6	2870.6	2870.6	2870.6	2870.6	2870.6
2.5°	2809.7	2831.1	2820.4	2855.2	2868.6	2847.2	2884.7	2885.4	2858.6	2890.0	2907.5
5°	2766.2	2788.3	2781.6	2817.7	2834.5	2815.7	2861.3	2870.0	2843.8	2879.3	2907.5
7.5°	2722.0	2748.1	2739.4	2776.2	2796.3	2781.6	2830.5	2844.5	2824.4	2863.3	2900.8
10°	2683.8	2705.9	2696.5	2735.4	2752.8	2740.7	2788.9	2815.1	2796.3	2843.8	2888.7
12.5°	2646.3	2664.4	2653.7	2685.8	2702.6	2687.2	2746.1	2770.2	2756.8	2806.3	2863.9
15°	2598.1	2618.2	2603.5	2632.2	2645.0	2631.6	2679.8	2721.3	2704.6	2758.8	2822.4
17.5°	2561.3	2572.7	2552.6	2575.3	2582.7	2564.6	2613.5	2654.3	2642.3	2701.2	2774.9
20°	2520.4	2529.8	2501.7	2514.4	2513.7	2491.0	2535.8	2576.0	2568.0	2632.9	2716.6
22.5°	2474.9	2479.6	2446.8	2449.4	2448.1	2410.6	2450.8	2491.6	2488.3	2553.9	2647.6
25°	2426.7	2427.3	2385.2	2383.8	2369.1	2324.9	2360.4	2406.6	2396.5	2467.5	2566.0
27.5°	2379.1	2372.4	2321.5	2309.5	2286.1	2233.2	2264.6	2306.1	2300.1	2369.8	2478.9
30°	2328.2	2319.5	2257.3	2235.2	2201.0	2140.1	2166.2	2205.0	2208.4	2269.3	2383.8
32.5°	2280.0	2257.9	2189.0	2156.8	2114.0	2043.0	2057.0	2096.6	2101.9	2163.5	2281.4
35°	2217.8	2203.0	2118.0	2063.1	2020.9	1943.2	1957.9	1985.4	1993.4	2053.7	2173.6
37.5°	2158.8	2135.4	2045.0	1978.0	1923.8	1842.1	1846.1	1874.2	1882.3	1943.2	2061.7
40°	2097.9	2064.4	1967.3	1889.0	1826.7	1741.0	1736.3	1765.8	1771.8	1831.4	1938.5
42.5°	2032.9	1992.8	1883.6	1797.9	1726.3	1639.2	1629.8	1655.3	1662.0	1720.2	1825.4
45°	1967.3	1919.1	1797.9	1704.2	1625.8	1536.8	1527.4	1546.8	1556.8	1611.8	1712.9
47.5°	1897.7	1841.4	1709.5	1605.1	1524.0	1435.0	1423.6	1443.0	1451.1	1505.3	1601.0
50°	1824.7	1756.4	1618.5	1503.3	1422.9	1335.2	1318.5	1341.2	1348.6	1399.5	1493.2
52.5°	1744.3	1668.7	1521.4	1400.8	1320.5	1236.8	1216.7	1238.8	1247.5	1297.0	1383.4
55°	1659.3	1577.6	1423.6	1306.4	1219.4	1137.7	1120.9	1129.6	1148.4	1195.3	1275.6
57.5°	1563.5	1482.5	1320.5	1201.3	1117.6	1039.2	1025.2	1033.2	1050.6	1096.2	1168.5
60°	1461.8	1376.1	1215.3	1096.2	1015.1	940.8	928.1	935.4	954.2	995.7	1062.7
62.5°	1361.3	1264.9	1106.9	988.3	914.7	845.7	842.4	839.7	857.1	897.3	956.2
65°	1239.5	1147.0	993.7	881.2	814.2	752.0	738.6	744.6	761.3	798.2	859.8
67.5°	1108.9	1025.2	877.9	774.1	714.5	658.9	647.5	650.2	667.6	699.7	753.3
70°	970.3	896.6	759.3	666.3	616.0	563.8	556.4	557.1	573.9	602.0	648.9
72.5°	825.0	758.7	639.5	559.8	518.3	480.8	474.1	466.1	481.5	505.6	545.7
75°	677.0	618.7	520.3	455.3	422.5	391.1	385.0	377.0	392.4	413.2	444.6
77.5°	527.7	480.8	404.4	354.2	328.8	305.3	300.0	291.3	306.7	322.1	346.9
80°	381.7	347.5	302.0	249.1	240.4	225.0	219.6	210.3	225.0	235.0	253.8
82.5°	246.4	223.7	197.5	160.7	159.4	148.0	145.3	134.6	148.0	154.0	168.1
85°	124.5	113.8	107.1	81.7	84.4	77.0	76.3	65.0	75.7	78.3	86.4
87.5°	35.5	37.5	33.5	20.1	25.4	24.1	24.1	17.4	24.1	24.1	27.5
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: P837906

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

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	2870.6	2870.6	2870.6	2870.6	2870.6	2870.6	2870.6	2870.6
2.5°	2873.3	2884.7	2887.4	2886.7	2894.1	2934.2	2920.8	2934.2
5°	2880.0	2905.4	2912.1	2921.5	2933.6	2979.1	2964.4	2980.4
7.5°	2884.0	2922.2	2936.9	2955.0	2974.4	3025.3	3013.3	3029.3
10°	2884.0	2933.6	2955.0	2985.1	3011.2	3070.2	3058.8	3077.5
12.5°	2872.0	2935.6	2965.7	3007.9	3041.4	3105.0	3100.3	3113.7
15°	2847.2	2925.5	2967.1	3021.3	3062.8	3133.8	3131.8	3147.8
17.5°	2813.7	2908.1	2958.3	3026.6	3078.9	3158.6	3163.2	3172.0
20°	2771.5	2875.3	2940.9	3024.6	3090.3	3178.0	3184.0	3196.1
22.5°	2715.9	2835.8	2914.8	3015.9	3091.6	3186.0	3196.7	3208.1
25°	2650.3	2788.3	2880.7	2999.2	3084.9	3185.3	3200.1	3210.1
27.5°	2575.3	2726.7	2837.1	2972.4	3066.2	3174.6	3192.7	3204.8
30°	2488.3	2661.0	2787.6	2937.6	3040.7	3154.5	3174.0	3186.0
32.5°	2398.6	2588.7	2728.7	2892.7	3003.9	3122.4	3139.1	3148.5
35°	2300.8	2501.0	2657.7	2835.1	2956.3	3070.8	3083.6	3093.6
37.5°	2194.3	2405.9	2576.7	2770.2	2889.4	2999.2	3010.6	3022.0
40°	2084.5	2306.1	2485.6	2690.5	2809.7	2911.5	2923.5	2931.6
42.5°	1974.0	2195.7	2388.5	2596.8	2715.3	2813.0	2820.4	2828.4
45°	1862.2	2081.2	2279.4	2493.0	2610.1	2701.9	2704.6	2711.3
47.5°	1748.4	1962.6	2159.5	2374.4	2490.3	2574.0	2576.7	2582.0
50°	1633.9	1844.1	2031.6	2246.5	2359.7	2448.1	2436.1	2441.4
52.5°	1521.4	1719.6	1911.1	2108.6	2220.4	2298.8	2302.1	2291.4
55°	1410.9	1597.7	1773.8	1964.0	2070.4	2131.4	2129.4	2133.4
57.5°	1299.0	1474.5	1635.9	1810.0	1913.8	1971.3	1983.4	1969.3
60°	1185.2	1349.9	1494.6	1651.9	1752.4	1800.6	1814.6	1801.3
62.5°	1072.0	1223.4	1354.6	1491.9	1585.0	1644.6	1643.2	1628.5
65°	958.9	1096.2	1213.3	1329.9	1410.9	1470.5	1467.8	1454.4
67.5°	854.4	967.6	1072.7	1167.1	1237.4	1278.3	1292.4	1276.3
70°	739.3	837.0	929.4	1005.1	1063.3	1100.2	1113.6	1099.5
72.5°	624.1	707.1	772.1	845.1	889.9	920.7	934.8	921.4
75°	510.2	578.5	631.4	688.4	719.8	745.9	762.0	748.6
77.5°	399.8	452.7	494.8	536.4	572.5	578.5	592.6	583.9
80°	294.6	332.8	363.6	391.1	417.2	419.8	431.2	425.9
82.5°	196.2	221.6	229.7	258.5	275.2	272.5	283.9	279.9
85°	103.8	119.2	133.3	142.0	151.3	142.6	152.7	148.7
87.5°	34.8	36.8	32.1	45.5	50.2	42.9	48.9	46.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)