

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: P838078

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-2HI-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: P838078
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-LD4-2HI-30-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and RFI grid
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

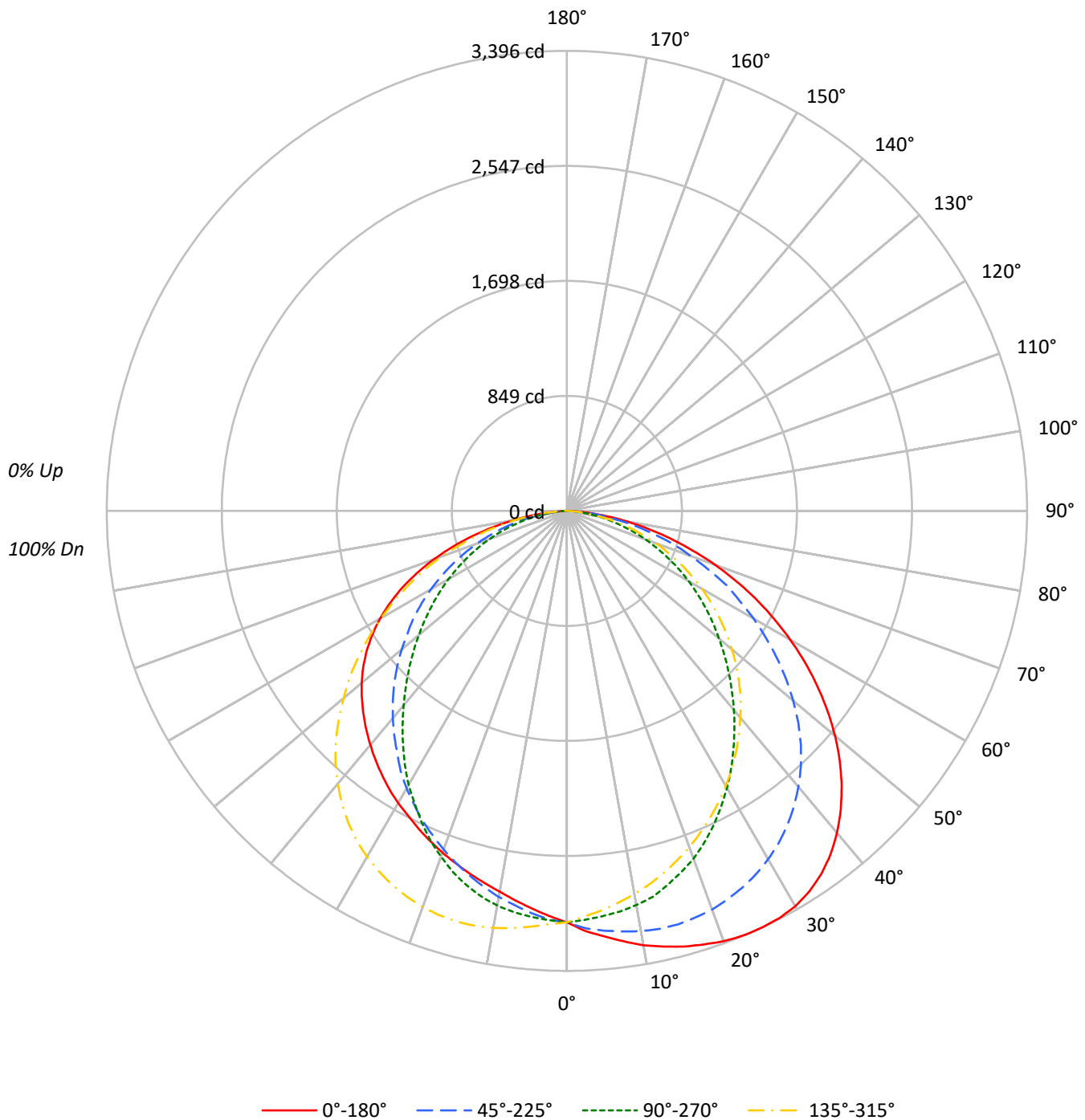
Lumens per Lamp: N/A
Luminaire Lumens: 8909.7 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 88
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°	4086	4086	4086	4086
5°	4259	4057	3980	4063
10°	4448	4036	3899	4042
15°	4639	3984	3861	3986
20°	4841	3912	3844	3890
25°	5042	3803	3844	3764
30°	5237	3670	3870	3630
35°	5376	3520	3908	3464
40°	5447	3368	3963	3292
45°	5458	3215	4040	3134
50°	5406	3068	4138	2986
55°	5294	2931	4231	2850
60°	5128	2789	4287	2716
65°	4898	2625	4265	2564
70°	4576	2433	4113	2388
75°	4117	2169	3775	2158
80°	3491	1817	3172	1844
85°	2428	1203	2012	1235

Classified

Scaled Data Report

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Peachtree City, GA 30269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.3	3.2
10°-20°	834.9	9.4
20°-30°	1279.6	14.4
30°-40°	1555.9	17.5
40°-50°	1617.4	18.2
50°-60°	1461.0	16.4
60°-70°	1110.7	12.5
70°-80°	619.2	7.0
80°-90°	142.6	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°	2402.8	27.0
0°-40°	3958.7	44.4
0°-60°	7037.1	79.0
0°-90°	8909.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8909.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3037	3037	3037	3037	3037	
5°	3153	3004	2947	3008	3153	304
15°	3330	2860	2772	2861	3330	944
25°	3396	2562	2589	2535	3396	1569
35°	3273	2143	2380	2109	3273	2044
45°	2868	1690	2123	1647	2868	2208
55°	2257	1250	1804	1215	2257	2015
65°	1539	825	1340	805	1539	1520
75°	792	417	726	415	792	841
85°	157	78	130	80	157	198
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°	3036.8	3036.8	3036.8	3036.8	3036.8	3036.8	3036.8	3036.8	3036.8	3036.8	3036.8
2.5°	3104.1	3058.8	3059.5	3099.2	3068.7	3083.6	3041.1	3057.4	3052.4	3056.0	3021.3
5°	3153.0	3104.1	3103.4	3137.4	3103.4	3109.8	3056.0	3066.6	3051.0	3041.1	3003.5
7.5°	3204.7	3155.8	3150.9	3180.6	3136.0	3131.1	3071.5	3071.5	3043.2	3018.4	2983.0
10°	3255.7	3205.4	3199.1	3221.7	3166.5	3150.2	3077.9	3066.6	3029.0	2992.2	2954.0
12.5°	3294.0	3243.0	3238.0	3252.2	3189.8	3160.1	3077.9	3056.0	3000.7	2949.0	2919.2
15°	3330.1	3277.7	3264.2	3271.3	3199.8	3160.1	3068.0	3034.0	2963.2	2895.2	2860.4
17.5°	3355.6	3305.3	3291.9	3291.1	3204.7	3148.1	3046.8	3000.0	2915.0	2832.8	2798.1
20°	3381.1	3330.8	3313.8	3301.1	3203.3	3131.8	3015.6	2952.5	2853.4	2761.3	2732.2
22.5°	3393.9	3342.1	3323.7	3304.6	3194.1	3102.0	2977.3	2897.3	2783.9	2674.1	2650.1
25°	3396.0	3342.9	3323.0	3295.4	3175.7	3066.6	2927.7	2830.7	2703.9	2582.1	2561.5
27.5°	3390.3	3332.2	3312.4	3279.1	3148.1	3023.4	2869.0	2754.9	2618.9	2484.3	2462.3
30°	3370.5	3311.7	3292.6	3249.4	3109.1	2970.2	2804.5	2670.6	2524.7	2381.6	2362.5
32.5°	3330.8	3273.4	3257.9	3214.6	3066.6	2908.6	2729.4	2579.9	2420.5	2283.8	2255.5
35°	3272.7	3215.3	3205.4	3160.1	3007.1	2834.9	2647.2	2480.8	2310.0	2170.5	2142.9
37.5°	3196.9	3148.8	3133.9	3089.3	2937.0	2751.4	2553.0	2373.1	2197.4	2047.2	2030.2
40°	3101.3	3056.0	3044.6	3005.0	2855.5	2658.6	2451.0	2261.9	2081.2	1941.7	1917.6
42.5°	2992.2	2949.7	2943.3	2902.2	2754.9	2555.8	2340.5	2146.4	1960.1	1825.5	1801.4
45°	2868.2	2827.2	2825.7	2786.8	2645.1	2441.8	2224.3	2029.5	1841.8	1702.2	1689.5
47.5°	2731.5	2694.7	2694.7	2658.6	2522.6	2316.4	2104.6	1907.7	1722.8	1599.5	1576.9
50°	2582.8	2548.1	2537.4	2519.7	2387.2	2179.7	1978.5	1788.7	1605.2	1487.6	1465.6
52.5°	2424.1	2394.3	2401.4	2368.8	2240.6	2037.3	1851.0	1654.8	1486.9	1379.9	1358.0
55°	2256.9	2214.4	2220.8	2208.7	2087.6	1890.7	1707.9	1544.3	1370.7	1270.1	1249.6
57.5°	2083.4	2028.1	2050.8	2043.7	1924.7	1740.5	1576.9	1418.9	1255.3	1162.5	1142.6
60°	1905.5	1852.4	1875.8	1869.4	1757.5	1590.3	1441.6	1294.9	1140.5	1056.2	1036.4
62.5°	1722.8	1673.9	1695.2	1690.2	1587.5	1436.6	1307.0	1172.4	1025.0	949.2	930.8
65°	1538.6	1491.9	1511.0	1507.4	1412.5	1297.8	1168.8	1045.6	908.9	843.0	824.6
67.5°	1350.2	1307.0	1324.7	1324.7	1237.5	1127.7	1030.0	917.4	794.8	738.1	721.1
70°	1163.2	1122.8	1138.4	1137.0	1063.3	974.0	889.7	789.1	679.3	632.6	618.4
72.5°	974.7	939.3	953.5	952.1	890.4	833.1	749.5	662.3	566.7	529.2	516.4
75°	792.0	758.7	772.1	770.7	720.4	666.6	610.6	538.4	456.2	430.0	417.2
77.5°	617.7	583.7	595.0	595.0	558.2	519.2	474.6	418.7	360.6	332.2	323.0
80°	450.5	434.2	428.6	429.3	404.5	379.0	356.3	302.5	260.0	240.9	234.5
82.5°	296.1	282.6	277.0	278.4	264.2	248.6	234.5	196.9	168.6	157.3	153.7
85°	157.3	147.3	142.4	145.9	143.1	134.6	127.5	102.0	84.3	80.0	77.9
87.5°	49.6	43.2	39.7	52.4	44.6	39.7	38.3	30.5	23.4	23.4	22.7
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°	3036.8	3036.8	3036.8	3036.8	3036.8	3036.8	3036.8	3036.8	3036.8	3036.8	3036.8
2.5°	3032.6	3032.6	3005.0	2998.6	2995.8	2999.3	2971.7	2966.7	3006.4	2992.9	2962.5
5°	3008.5	3007.1	2968.1	2961.0	2961.0	2956.8	2925.6	2918.5	2958.2	2946.9	2913.6
7.5°	2978.7	2974.5	2928.5	2923.5	2916.4	2913.6	2878.9	2873.9	2907.9	2900.8	2869.7
10°	2942.6	2938.4	2883.8	2880.3	2872.5	2866.8	2834.2	2830.7	2865.4	2854.1	2829.3
12.5°	2895.2	2887.4	2831.4	2827.9	2821.5	2819.4	2787.5	2786.1	2824.3	2813.0	2786.8
15°	2832.8	2826.4	2764.1	2765.5	2766.2	2766.2	2740.7	2739.3	2776.9	2771.9	2743.6
17.5°	2764.1	2755.6	2696.1	2700.4	2705.3	2711.0	2691.1	2694.7	2734.4	2728.0	2702.5
20°	2686.2	2677.7	2619.6	2631.6	2642.3	2653.6	2640.9	2650.8	2687.6	2684.8	2665.6
22.5°	2599.1	2590.6	2536.7	2555.1	2572.8	2594.1	2588.4	2599.8	2638.7	2638.0	2621.0
25°	2492.8	2494.9	2447.5	2470.1	2499.9	2529.6	2531.8	2550.2	2593.4	2589.1	2573.6
27.5°	2393.6	2396.5	2346.2	2384.4	2424.1	2462.3	2471.5	2497.0	2541.0	2537.4	2524.0
30°	2289.5	2293.0	2244.2	2296.6	2344.7	2391.5	2411.3	2446.0	2490.7	2490.7	2476.5
32.5°	2181.1	2187.5	2136.5	2206.6	2262.6	2317.1	2351.8	2388.0	2439.0	2437.5	2425.5
35°	2069.9	2077.0	2030.2	2119.5	2175.4	2242.0	2285.2	2333.4	2378.7	2379.5	2370.2
37.5°	1956.6	1965.1	1922.6	2020.3	2084.1	2162.7	2217.9	2266.1	2316.4	2319.2	2310.7
40°	1843.9	1853.1	1816.3	1910.5	1991.3	2079.1	2142.9	2199.5	2254.8	2256.2	2250.5
42.5°	1731.3	1741.2	1713.6	1805.7	1897.0	1991.3	2066.4	2130.8	2187.5	2191.0	2184.7
45°	1621.5	1630.0	1610.2	1710.7	1798.6	1901.3	1987.7	2060.7	2118.1	2123.0	2120.9
47.5°	1512.4	1520.2	1502.5	1594.6	1695.9	1805.0	1904.8	1985.6	2046.5	2052.2	2050.8
50°	1405.4	1411.8	1392.7	1489.0	1589.6	1705.8	1809.9	1903.4	1971.4	1977.1	1976.4
52.5°	1299.2	1305.5	1289.3	1390.6	1481.9	1604.5	1717.8	1819.1	1886.4	1894.9	1896.3
55°	1196.5	1199.3	1186.5	1283.6	1372.1	1500.4	1630.7	1729.2	1796.5	1803.5	1807.8
57.5°	1093.7	1094.5	1083.8	1176.6	1261.6	1392.7	1529.4	1632.8	1696.6	1703.7	1710.0
60°	991.7	991.0	979.0	1068.9	1150.4	1280.0	1422.4	1525.1	1586.8	1593.2	1601.7
62.5°	890.4	888.3	877.7	960.6	1037.1	1165.3	1308.4	1407.6	1466.4	1470.6	1481.9
65°	789.8	787.7	777.8	854.3	923.7	1046.3	1186.5	1280.8	1333.9	1339.6	1337.4
67.5°	690.7	686.4	678.6	747.3	810.4	923.7	1058.3	1148.3	1192.2	1197.2	1210.6
70°	591.5	586.5	568.8	641.8	697.0	798.3	923.7	1003.8	1040.6	1045.6	1043.4
72.5°	493.7	488.8	469.7	537.0	583.7	672.3	784.2	850.8	882.6	886.9	886.9
75°	398.8	396.0	383.9	434.9	473.9	546.2	641.1	696.3	721.1	726.1	724.7
77.5°	307.4	305.3	293.3	337.2	367.7	421.5	498.0	541.2	559.6	565.3	577.3
80°	220.3	219.6	200.5	243.7	257.1	302.5	358.4	391.7	401.7	409.4	417.9
82.5°	141.0	141.7	122.6	159.4	165.1	194.1	228.8	249.4	256.4	262.8	269.2
85°	68.7	71.5	60.9	84.3	85.0	99.9	114.8	122.6	125.4	130.3	136.0
87.5°	17.7	20.5	11.3	24.1	21.3	27.6	31.9	34.0	33.3	36.8	39.0
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°	3036.8	3036.8	3036.8	3036.8	3036.8	3036.8	3036.8	3036.8	3036.8	3036.8	3036.8
2.5°	2972.4	2995.0	2983.7	3020.5	3034.7	3012.0	3051.7	3052.4	3024.1	3057.4	3075.8
5°	2926.3	2949.7	2942.6	2980.9	2998.6	2978.7	3026.9	3036.1	3008.5	3046.0	3075.8
7.5°	2879.6	2907.2	2898.0	2937.0	2958.2	2942.6	2994.3	3009.2	2988.0	3029.0	3068.7
10°	2839.2	2862.6	2852.7	2893.7	2912.2	2899.4	2950.4	2978.0	2958.2	3008.5	3056.0
12.5°	2799.5	2818.7	2807.3	2841.3	2859.0	2842.7	2905.1	2930.6	2916.4	2968.8	3029.8
15°	2748.5	2769.8	2754.2	2784.7	2798.1	2783.9	2834.9	2878.9	2861.2	2918.5	2985.8
17.5°	2709.6	2721.6	2700.4	2724.4	2732.2	2713.1	2764.8	2808.0	2795.3	2857.6	2935.5
20°	2666.4	2676.3	2646.5	2660.0	2659.3	2635.2	2682.6	2725.1	2716.6	2785.4	2873.9
22.5°	2618.2	2623.1	2588.4	2591.3	2589.8	2550.2	2592.7	2635.9	2632.4	2701.8	2800.9
25°	2567.2	2567.9	2523.3	2521.8	2506.3	2459.5	2497.0	2545.9	2535.3	2610.4	2714.5
27.5°	2516.9	2509.8	2456.0	2443.2	2418.4	2362.5	2395.8	2439.7	2433.3	2507.0	2622.4
30°	2463.0	2453.8	2388.0	2364.6	2328.5	2264.0	2291.6	2332.7	2336.2	2400.7	2521.8
32.5°	2412.0	2388.7	2315.7	2281.7	2236.4	2161.3	2176.2	2217.9	2223.6	2288.8	2413.5
35°	2346.2	2330.6	2240.6	2182.5	2137.9	2055.7	2071.3	2100.4	2108.9	2172.6	2299.4
37.5°	2283.8	2259.0	2163.4	2092.6	2035.2	1948.8	1953.0	1982.8	1991.3	2055.7	2181.1
40°	2219.4	2183.9	2081.2	1998.3	1932.5	1841.8	1836.8	1868.0	1874.4	1937.4	2050.8
42.5°	2150.7	2108.1	1992.7	1902.0	1826.2	1734.1	1724.2	1751.1	1758.2	1819.8	1931.1
45°	2081.2	2030.2	1902.0	1802.8	1720.0	1625.7	1615.8	1636.4	1647.0	1705.1	1812.0
47.5°	2007.6	1948.1	1808.5	1698.0	1612.3	1518.1	1506.0	1526.6	1535.1	1592.4	1693.7
50°	1930.3	1858.1	1712.2	1590.3	1505.3	1412.5	1394.8	1418.9	1426.7	1480.5	1579.7
52.5°	1845.3	1765.3	1609.4	1481.9	1396.9	1308.4	1287.1	1310.5	1319.7	1372.1	1463.5
55°	1755.4	1668.9	1506.0	1382.1	1290.0	1203.5	1185.8	1195.0	1214.9	1264.5	1349.5
57.5°	1654.1	1568.4	1396.9	1270.8	1182.3	1099.4	1084.5	1093.0	1111.5	1159.6	1236.1
60°	1546.4	1455.7	1285.7	1159.6	1073.9	995.3	981.8	989.6	1009.4	1053.4	1124.2
62.5°	1440.1	1338.1	1171.0	1045.6	967.7	894.7	891.1	888.3	906.7	949.2	1011.6
65°	1311.2	1213.5	1051.2	932.2	861.4	795.5	781.3	787.7	805.4	844.4	909.6
67.5°	1173.1	1084.5	928.7	818.9	755.8	697.0	685.0	687.8	706.3	740.3	796.9
70°	1026.4	948.5	803.3	704.8	651.7	596.5	588.7	589.4	607.1	636.8	686.4
72.5°	872.7	802.6	676.5	592.2	548.3	508.6	501.5	493.0	509.3	534.8	577.3
75°	716.2	654.5	550.4	481.7	447.0	413.7	407.3	398.8	415.1	437.1	470.4
77.5°	558.2	508.6	427.9	374.7	347.8	323.0	317.4	308.1	324.4	340.7	366.9
80°	403.8	367.7	319.5	263.5	254.3	238.0	232.3	222.4	238.0	248.6	268.5
82.5°	260.7	236.6	209.0	170.0	168.6	156.6	153.7	142.4	156.6	162.9	177.8
85°	131.8	120.4	113.3	86.4	89.3	81.5	80.8	68.7	80.0	82.9	91.4
87.5°	37.5	39.7	35.4	21.3	26.9	25.5	25.5	18.4	25.5	25.5	29.0
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: P838078

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-2HI-30-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3036.8	3036.8	3036.8	3036.8	3036.8	3036.8	3036.8	3036.8
2.5°	3039.7	3051.7	3054.5	3053.8	3061.6	3104.1	3090.0	3104.1
5°	3046.8	3073.7	3080.8	3090.7	3103.4	3151.6	3136.0	3153.0
7.5°	3051.0	3091.4	3107.0	3126.1	3146.6	3200.5	3187.7	3204.7
10°	3051.0	3103.4	3126.1	3158.0	3185.6	3247.9	3235.9	3255.7
12.5°	3038.3	3105.6	3137.4	3182.1	3217.5	3284.8	3279.8	3294.0
15°	3012.0	3094.9	3138.8	3196.2	3240.1	3315.2	3313.1	3330.1
17.5°	2976.6	3076.5	3129.6	3201.9	3257.1	3341.4	3346.4	3355.6
20°	2932.0	3041.8	3111.2	3199.8	3269.2	3362.0	3368.4	3381.1
22.5°	2873.2	3000.0	3083.6	3190.6	3270.6	3370.5	3381.8	3393.9
25°	2803.8	2949.7	3047.5	3172.8	3263.5	3369.8	3385.4	3396.0
27.5°	2724.4	2884.5	3001.4	3144.5	3243.7	3358.4	3377.6	3390.3
30°	2632.4	2815.1	2949.0	3107.7	3216.8	3337.2	3357.7	3370.5
32.5°	2537.4	2738.6	2886.7	3060.2	3177.8	3303.2	3320.9	3330.8
35°	2434.0	2645.8	2811.6	2999.3	3127.5	3248.6	3262.1	3272.7
37.5°	2321.4	2545.2	2725.9	2930.6	3056.7	3172.8	3184.9	3196.9
40°	2205.2	2439.7	2629.5	2846.3	2972.4	3080.0	3092.8	3101.3
42.5°	2088.3	2322.8	2526.8	2747.1	2872.5	2975.9	2983.7	2992.2
45°	1970.0	2201.7	2411.3	2637.3	2761.3	2858.3	2861.2	2868.2
47.5°	1849.6	2076.3	2284.5	2511.9	2634.5	2723.0	2725.9	2731.5
50°	1728.5	1950.9	2149.2	2376.6	2496.3	2589.8	2577.1	2582.8
52.5°	1609.4	1819.1	2021.7	2230.7	2349.0	2431.9	2435.4	2424.1
55°	1492.6	1690.2	1876.5	2077.7	2190.3	2254.8	2252.7	2256.9
57.5°	1374.3	1559.9	1730.6	1914.8	2024.6	2085.5	2098.2	2083.4
60°	1253.8	1428.1	1581.1	1747.6	1853.8	1904.8	1919.7	1905.5
62.5°	1134.1	1294.2	1433.1	1578.3	1676.7	1739.8	1738.4	1722.8
65°	1014.4	1159.6	1283.6	1406.8	1492.6	1555.6	1552.8	1538.6
67.5°	903.9	1023.6	1134.8	1234.7	1309.1	1352.3	1367.2	1350.2
70°	782.1	885.5	983.2	1063.3	1124.9	1163.9	1178.0	1163.2
72.5°	660.2	748.1	816.8	894.0	941.4	974.0	988.9	974.7
75°	539.8	612.0	668.0	728.2	761.5	789.1	806.1	792.0
77.5°	422.9	478.9	523.5	567.4	605.7	612.0	626.9	617.7
80°	311.7	352.1	384.7	413.7	441.3	444.2	456.2	450.5
82.5°	207.6	234.5	243.0	273.4	291.1	288.3	300.4	296.1
85°	109.8	126.1	141.0	150.2	160.1	150.9	161.5	157.3
87.5°	36.8	39.0	34.0	48.2	53.1	45.3	51.7	49.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)