

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: P837964

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-6HI-27-120-EDD-90**

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-08
Report Number: P837964
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-LD4-6HI-27-120-EDD-90
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

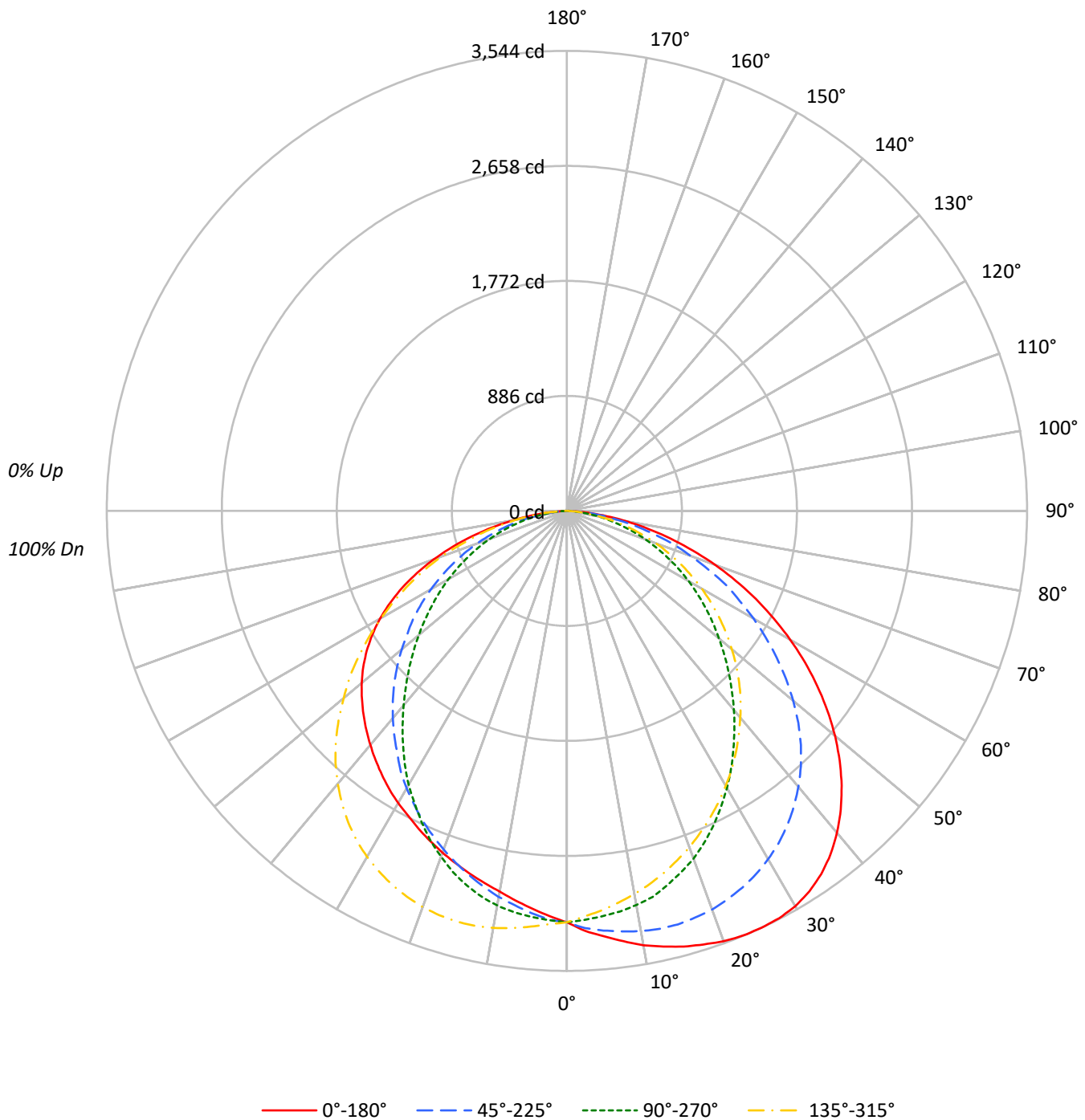
Lumens per Lamp: N/A
Luminaire Lumens: 9297.8 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 132
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	104	100	96	106	102	98	94	97	94	91		94	91	89		90
2	99	91	84	78	96	89	82	77	85	80	75		82	77	73		79
3	90	79	71	65	88	78	70	64	75	68	63		72	66	62		69
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		62
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		56
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		50
7	65	51	42	36	63	50	42	36	49	41	36		47	40	35		46
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		42
9	56	43	34	29	55	42	34	29	41	34	29		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8528	8528	8528	8528
5°	8888	8467	8307	8481
10°	9284	8423	8138	8435
15°	9682	8316	8059	8318
20°	10104	8165	8023	8119
25°	10522	7937	8022	7856
30°	10929	7661	8076	7576
35°	11220	7346	8157	7229
40°	11369	7030	8271	6871
45°	11391	6710	8431	6541
50°	11284	6403	8637	6233
55°	11050	6118	8830	5948
60°	10703	5821	8948	5669
65°	10223	5479	8901	5352
70°	9550	5078	8585	4984
75°	8593	4527	7878	4504
80°	7287	3792	6622	3849
85°	5067	2510	4199	2578

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.9	3.2
10°-20°	871.3	9.4
20°-30°	1335.3	14.4
30°-40°	1623.7	17.5
40°-50°	1687.9	18.2
50°-60°	1524.7	16.4
60°-70°	1159.1	12.5
70°-80°	646.2	7.0
80°-90°	148.8	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°	2507.5	27.0
0°-40°	4131.2	44.4
0°-60°	7343.7	79.0
0°-90°	9297.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9297.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3169	3169	3169	3169	3169	
5°	3290	3134	3075	3140	3290	317
15°	3475	2985	2893	2986	3475	985
25°	3544	2673	2702	2646	3544	1637
35°	3415	2236	2483	2201	3415	2133
45°	2993	1763	2216	1719	2993	2304
55°	2355	1304	1882	1268	2355	2102
65°	1606	860	1398	840	1606	1587
75°	826	435	758	433	826	878
85°	164	81	136	84	164	207
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°	3169.1	3169.1	3169.1	3169.1	3169.1	3169.1	3169.1	3169.1	3169.1	3169.1	3169.1
2.5°	3239.4	3192.1	3192.8	3234.2	3202.4	3217.9	3173.6	3190.6	3185.4	3189.1	3152.9
5°	3290.4	3239.4	3238.6	3274.1	3238.6	3245.3	3189.1	3200.2	3183.9	3173.6	3134.4
7.5°	3344.3	3293.3	3288.2	3319.2	3272.6	3267.5	3205.4	3205.4	3175.8	3149.9	3113.0
10°	3397.6	3345.1	3338.4	3362.1	3304.4	3287.4	3212.0	3200.2	3161.0	3122.6	3082.7
12.5°	3437.5	3384.3	3379.1	3393.9	3328.8	3297.8	3212.0	3189.1	3131.4	3077.5	3046.4
15°	3475.2	3420.5	3406.4	3413.8	3339.2	3297.8	3201.7	3166.2	3092.3	3021.3	2985.1
17.5°	3501.8	3449.3	3435.3	3434.5	3344.3	3285.2	3179.5	3130.7	3042.0	2956.2	2920.0
20°	3528.4	3475.9	3458.2	3444.9	3342.9	3268.2	3147.0	3081.2	2977.7	2881.6	2851.3
22.5°	3541.7	3487.8	3468.5	3448.6	3333.3	3237.2	3107.1	3023.5	2905.2	2790.7	2765.5
25°	3543.9	3488.5	3467.8	3439.0	3314.0	3200.2	3055.3	2954.0	2821.7	2694.6	2673.1
27.5°	3538.0	3477.4	3456.7	3422.0	3285.2	3155.1	2993.9	2874.9	2733.0	2592.5	2569.6
30°	3517.3	3456.0	3436.0	3390.9	3244.6	3099.7	2926.7	2787.0	2634.7	2485.3	2465.4
32.5°	3475.9	3416.1	3399.8	3354.7	3200.2	3035.3	2848.3	2692.3	2526.0	2383.3	2353.8
35°	3415.3	3355.4	3345.1	3297.8	3138.1	2958.5	2762.6	2588.8	2410.7	2265.0	2236.2
37.5°	3336.2	3285.9	3270.4	3223.9	3064.9	2871.2	2664.2	2476.5	2293.1	2136.4	2118.7
40°	3236.4	3189.1	3177.3	3135.9	2979.9	2774.4	2557.8	2360.4	2171.9	2026.3	2001.1
42.5°	3122.6	3078.2	3071.6	3028.7	2874.9	2667.2	2442.5	2239.9	2045.5	1905.0	1879.9
45°	2993.2	2950.3	2948.9	2908.2	2760.3	2548.2	2321.2	2117.9	1922.0	1776.4	1763.1
47.5°	2850.5	2812.1	2812.1	2774.4	2632.5	2417.3	2196.3	1990.8	1797.8	1669.2	1645.6
50°	2695.3	2659.1	2648.0	2629.5	2491.3	2274.7	2064.7	1866.6	1675.1	1552.4	1529.5
52.5°	2529.7	2498.7	2506.0	2472.0	2338.2	2126.1	1931.6	1726.9	1551.7	1440.1	1417.1
55°	2355.2	2310.9	2317.5	2305.0	2178.6	1973.0	1782.3	1611.6	1430.4	1325.5	1304.0
57.5°	2174.1	2116.5	2140.1	2132.7	2008.5	1816.3	1645.6	1480.7	1309.9	1213.1	1192.4
60°	1988.6	1933.1	1957.5	1950.9	1834.1	1659.6	1504.4	1351.3	1190.2	1102.2	1081.5
62.5°	1797.8	1746.8	1769.0	1763.8	1656.6	1499.2	1363.9	1223.5	1069.7	990.6	971.4
65°	1605.6	1556.9	1576.8	1573.1	1474.1	1354.3	1219.8	1091.1	948.5	879.7	860.5
67.5°	1409.0	1363.9	1382.4	1382.4	1291.5	1176.9	1074.9	957.3	829.4	770.3	752.6
70°	1213.8	1171.7	1188.0	1186.5	1109.6	1016.5	928.5	823.5	708.9	660.1	645.4
72.5°	1017.2	980.2	995.0	993.5	929.2	869.4	782.1	691.2	591.4	552.2	538.9
75°	826.5	791.7	805.8	804.3	751.8	695.6	637.2	561.8	476.1	448.7	435.4
77.5°	644.6	609.1	621.0	621.0	582.5	541.9	495.3	436.9	376.3	346.7	337.1
80°	470.2	453.2	447.2	448.0	422.1	395.5	371.8	315.7	271.3	251.3	244.7
82.5°	309.0	295.0	289.0	290.5	275.7	259.5	244.7	205.5	175.9	164.1	160.4
85°	164.1	153.8	148.6	152.3	149.3	140.5	133.1	106.5	88.0	83.5	81.3
87.5°	51.7	45.1	41.4	54.7	46.6	41.4	39.9	31.8	24.4	24.4	23.7
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°	3169.1	3169.1	3169.1	3169.1	3169.1	3169.1	3169.1	3169.1	3169.1	3169.1	3169.1
2.5°	3164.7	3164.7	3135.9	3129.2	3126.3	3130.0	3101.1	3096.0	3137.4	3123.3	3091.5
5°	3139.6	3138.1	3097.4	3090.0	3090.0	3085.6	3053.1	3045.7	3087.1	3075.3	3040.5
7.5°	3108.5	3104.1	3056.0	3050.9	3043.5	3040.5	3004.3	2999.1	3034.6	3027.2	2994.7
10°	3070.8	3066.4	3009.5	3005.8	2997.6	2991.7	2957.7	2954.0	2990.2	2978.4	2952.5
12.5°	3021.3	3013.2	2954.8	2951.1	2944.4	2942.2	2908.9	2907.5	2947.4	2935.5	2908.2
15°	2956.2	2949.6	2884.5	2886.0	2886.8	2886.8	2860.1	2858.7	2897.8	2892.7	2863.1
17.5°	2884.5	2875.7	2813.6	2818.0	2823.2	2829.1	2808.4	2812.1	2853.5	2846.8	2820.2
20°	2803.2	2794.3	2733.7	2746.3	2757.4	2769.2	2755.9	2766.3	2804.7	2801.7	2781.8
22.5°	2712.3	2703.4	2647.2	2666.5	2684.9	2707.1	2701.2	2713.0	2753.7	2753.0	2735.2
25°	2601.4	2603.6	2554.1	2577.8	2608.8	2639.8	2642.1	2661.3	2706.4	2701.9	2685.7
27.5°	2497.9	2500.9	2448.4	2488.3	2529.7	2569.6	2579.2	2605.8	2651.7	2648.0	2633.9
30°	2389.2	2392.9	2341.9	2396.6	2446.9	2495.7	2516.4	2552.6	2599.2	2599.2	2584.4
32.5°	2276.1	2282.8	2229.6	2302.8	2361.2	2418.1	2454.3	2492.0	2545.2	2543.7	2531.2
35°	2160.1	2167.5	2118.7	2211.8	2270.2	2339.7	2384.8	2435.1	2482.4	2483.1	2473.5
37.5°	2041.8	2050.7	2006.3	2108.3	2174.9	2256.9	2314.6	2364.8	2417.3	2420.3	2411.4
40°	1924.3	1933.9	1895.4	1993.7	2078.0	2169.7	2236.2	2295.4	2353.0	2354.5	2348.6
42.5°	1806.7	1817.1	1788.2	1884.3	1979.7	2078.0	2156.4	2223.7	2282.8	2286.5	2279.8
45°	1692.1	1701.0	1680.3	1785.3	1876.9	1984.1	2074.3	2150.5	2210.3	2215.5	2213.3
47.5°	1578.3	1586.4	1567.9	1664.0	1769.8	1883.6	1987.8	2072.1	2135.7	2141.6	2140.1
50°	1466.7	1473.3	1453.4	1553.9	1658.9	1780.1	1888.8	1986.4	2057.3	2063.2	2062.5
52.5°	1355.8	1362.4	1345.4	1451.1	1546.5	1674.4	1792.7	1898.4	1968.6	1977.5	1979.0
55°	1248.6	1251.5	1238.2	1339.5	1431.9	1565.7	1701.7	1804.5	1874.7	1882.1	1886.6
57.5°	1141.4	1142.1	1131.0	1227.9	1316.6	1453.4	1596.0	1704.0	1770.5	1777.9	1784.5
60°	1034.9	1034.2	1021.6	1115.5	1200.5	1335.8	1484.4	1591.6	1655.9	1662.6	1671.4
62.5°	929.2	927.0	915.9	1002.4	1082.3	1216.1	1365.4	1468.9	1530.2	1534.7	1546.5
65°	824.3	822.0	811.7	891.5	964.0	1091.9	1238.2	1336.6	1392.0	1397.9	1395.7
67.5°	720.8	716.3	708.2	779.9	845.7	964.0	1104.4	1198.3	1244.2	1249.3	1263.4
70°	617.3	612.1	593.6	669.8	727.4	833.1	964.0	1047.5	1086.0	1091.1	1088.9
72.5°	515.3	510.1	490.1	560.3	609.1	701.5	818.3	887.8	921.1	925.5	925.5
75°	416.2	413.2	400.7	453.9	494.6	570.0	669.0	726.7	752.6	757.7	756.2
77.5°	320.8	318.6	306.0	351.9	383.7	439.9	519.7	564.8	584.0	589.9	602.5
80°	229.9	229.2	209.2	254.3	268.3	315.7	374.1	408.8	419.2	427.3	436.2
82.5°	147.1	147.8	127.9	166.3	172.2	202.6	238.8	260.2	267.6	274.3	280.9
85°	71.7	74.7	63.6	88.0	88.7	104.2	119.8	127.9	130.8	136.0	141.9
87.5°	18.5	21.4	11.8	25.1	22.2	28.8	33.3	35.5	34.7	38.4	40.7
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	3169.1	3169.1	3169.1	3169.1	3169.1	3169.1	3169.1	3169.1	3169.1	3169.1	3169.1
2.5°	3101.9	3125.5	3113.7	3152.1	3166.9	3143.3	3184.7	3185.4	3155.8	3190.6	3209.8
5°	3053.8	3078.2	3070.8	3110.7	3129.2	3108.5	3158.8	3168.4	3139.6	3178.8	3209.8
7.5°	3005.0	3033.9	3024.3	3064.9	3087.1	3070.8	3124.8	3140.3	3118.1	3161.0	3202.4
10°	2962.9	2987.3	2976.9	3019.8	3039.0	3025.7	3079.0	3107.8	3087.1	3139.6	3189.1
12.5°	2921.5	2941.5	2929.6	2965.1	2983.6	2966.6	3031.6	3058.3	3043.5	3098.2	3161.8
15°	2868.3	2890.5	2874.2	2906.0	2920.0	2905.2	2958.5	3004.3	2985.8	3045.7	3115.9
17.5°	2827.6	2840.2	2818.0	2843.1	2851.3	2831.3	2885.3	2930.4	2917.1	2982.1	3063.4
20°	2782.5	2792.9	2761.8	2775.9	2775.1	2750.0	2799.5	2843.9	2835.0	2906.7	2999.1
22.5°	2732.3	2737.4	2701.2	2704.2	2702.7	2661.3	2705.6	2750.7	2747.0	2819.5	2923.0
25°	2679.0	2679.8	2633.2	2631.7	2615.5	2566.7	2605.8	2656.8	2645.8	2724.1	2832.8
27.5°	2626.5	2619.1	2563.0	2549.7	2523.8	2465.4	2500.1	2546.0	2539.3	2616.2	2736.7
30°	2570.4	2560.7	2492.0	2467.6	2429.9	2362.6	2391.5	2434.3	2438.0	2505.3	2631.7
32.5°	2517.1	2492.7	2416.6	2381.1	2333.8	2255.4	2271.0	2314.6	2320.5	2388.5	2518.6
35°	2448.4	2432.1	2338.2	2277.6	2231.0	2145.3	2161.6	2191.9	2200.7	2267.3	2399.6
37.5°	2383.3	2357.5	2257.7	2183.7	2123.9	2033.7	2038.1	2069.1	2078.0	2145.3	2276.1
40°	2316.1	2279.1	2171.9	2085.4	2016.7	1922.0	1916.9	1949.4	1956.0	2021.8	2140.1
42.5°	2244.4	2200.0	2079.5	1984.9	1905.8	1809.7	1799.3	1827.4	1834.8	1899.1	2015.2
45°	2171.9	2118.7	1984.9	1881.4	1794.9	1696.6	1686.2	1707.7	1718.7	1779.4	1891.0
47.5°	2095.0	2032.9	1887.3	1772.0	1682.5	1584.2	1571.6	1593.1	1601.9	1661.8	1767.5
50°	2014.4	1939.0	1786.8	1659.6	1570.9	1474.1	1455.6	1480.7	1488.8	1545.0	1648.5
52.5°	1925.7	1842.2	1679.6	1546.5	1457.8	1365.4	1343.2	1367.6	1377.2	1431.9	1527.3
55°	1831.9	1741.7	1571.6	1442.3	1346.2	1256.0	1237.5	1247.1	1267.8	1319.6	1408.3
57.5°	1726.1	1636.7	1457.8	1326.2	1233.8	1147.3	1131.8	1140.7	1159.9	1210.1	1290.0
60°	1613.8	1519.2	1341.7	1210.1	1120.7	1038.6	1024.6	1032.7	1053.4	1099.3	1173.2
62.5°	1502.9	1396.4	1222.0	1091.1	1009.8	933.7	930.0	927.0	946.2	990.6	1055.6
65°	1368.3	1266.3	1097.0	972.8	898.9	830.2	815.4	822.0	840.5	881.2	949.2
67.5°	1224.2	1131.8	969.2	854.6	788.8	727.4	714.9	717.8	737.0	772.5	831.7
70°	1071.2	989.9	838.3	735.5	680.1	622.4	614.3	615.1	633.5	664.6	716.3
72.5°	910.8	837.6	706.0	618.0	572.2	530.8	523.4	514.5	531.5	558.1	602.5
75°	747.4	683.1	574.4	502.7	466.5	431.7	425.1	416.2	433.2	456.1	490.9
77.5°	582.5	530.8	446.5	391.1	363.0	337.1	331.2	321.6	338.6	355.6	382.9
80°	421.4	383.7	333.4	275.0	265.4	248.4	242.5	232.1	248.4	259.5	280.2
82.5°	272.0	246.9	218.1	177.4	175.9	163.4	160.4	148.6	163.4	170.0	185.6
85°	137.5	125.7	118.3	90.2	93.1	85.0	84.3	71.7	83.5	86.5	95.4
87.5°	39.2	41.4	37.0	22.2	28.1	26.6	26.6	19.2	26.6	26.6	30.3
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: P837964

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-6HI-27-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3169.1	3169.1	3169.1	3169.1	3169.1	3169.1	3169.1	3169.1
2.5°	3172.1	3184.7	3187.6	3186.9	3195.0	3239.4	3224.6	3239.4
5°	3179.5	3207.6	3215.0	3225.3	3238.6	3288.9	3272.6	3290.4
7.5°	3183.9	3226.1	3242.3	3262.3	3283.7	3339.9	3326.6	3344.3
10°	3183.9	3238.6	3262.3	3295.6	3324.4	3389.4	3376.9	3397.6
12.5°	3170.6	3240.9	3274.1	3320.7	3357.7	3427.9	3422.7	3437.5
15°	3143.3	3229.8	3275.6	3335.5	3381.3	3459.7	3457.5	3475.2
17.5°	3106.3	3210.5	3266.0	3341.4	3399.1	3487.0	3492.2	3501.8
20°	3059.7	3174.3	3246.8	3339.2	3411.6	3508.5	3515.1	3528.4
22.5°	2998.4	3130.7	3217.9	3329.6	3413.1	3517.3	3529.2	3541.7
25°	2925.9	3078.2	3180.2	3311.1	3405.7	3516.6	3532.9	3543.9
27.5°	2843.1	3010.2	3132.2	3281.5	3385.0	3504.8	3524.7	3538.0
30°	2747.0	2937.8	3077.5	3243.1	3356.9	3482.6	3504.0	3517.3
32.5°	2648.0	2857.9	3012.4	3193.5	3316.3	3447.1	3465.6	3475.9
35°	2540.0	2761.1	2934.1	3130.0	3263.8	3390.2	3404.2	3415.3
37.5°	2422.5	2656.1	2844.6	3058.3	3189.8	3311.1	3323.6	3336.2
40°	2301.3	2546.0	2744.1	2970.3	3101.9	3214.2	3227.5	3236.4
42.5°	2179.3	2424.0	2636.9	2866.8	2997.6	3105.6	3113.7	3122.6
45°	2055.8	2297.6	2516.4	2752.2	2881.6	2982.9	2985.8	2993.2
47.5°	1930.2	2166.7	2384.1	2621.4	2749.3	2841.7	2844.6	2850.5
50°	1803.8	2035.9	2242.9	2480.2	2605.1	2702.7	2689.4	2695.3
52.5°	1679.6	1898.4	2109.8	2327.9	2451.3	2537.8	2541.5	2529.7
55°	1557.6	1763.8	1958.3	2168.2	2285.7	2353.0	2350.8	2355.2
57.5°	1434.1	1627.8	1806.0	1998.2	2112.8	2176.3	2189.6	2174.1
60°	1308.5	1490.3	1650.0	1823.7	1934.6	1987.8	2003.4	1988.6
62.5°	1183.5	1350.6	1495.5	1647.0	1749.8	1815.6	1814.1	1797.8
65°	1058.6	1210.1	1339.5	1468.1	1557.6	1623.4	1620.4	1605.6
67.5°	943.3	1068.2	1184.3	1288.5	1366.1	1411.2	1426.7	1409.0
70°	816.1	924.1	1026.1	1109.6	1173.9	1214.6	1229.4	1213.8
72.5°	689.0	780.6	852.4	932.9	982.5	1016.5	1032.0	1017.2
75°	563.3	638.7	697.1	759.9	794.7	823.5	841.3	826.5
77.5°	441.3	499.7	546.3	592.1	632.1	638.7	654.2	644.6
80°	325.3	367.4	401.4	431.7	460.6	463.5	476.1	470.2
82.5°	216.6	244.7	253.6	285.3	303.8	300.9	313.4	309.0
85°	114.6	131.6	147.1	156.7	167.1	157.5	168.5	164.1
87.5°	38.4	40.7	35.5	50.3	55.4	47.3	54.0	51.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)