

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: P838114

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-2HI-40-120-EDD**

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-08
Report Number: P838114
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-40-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

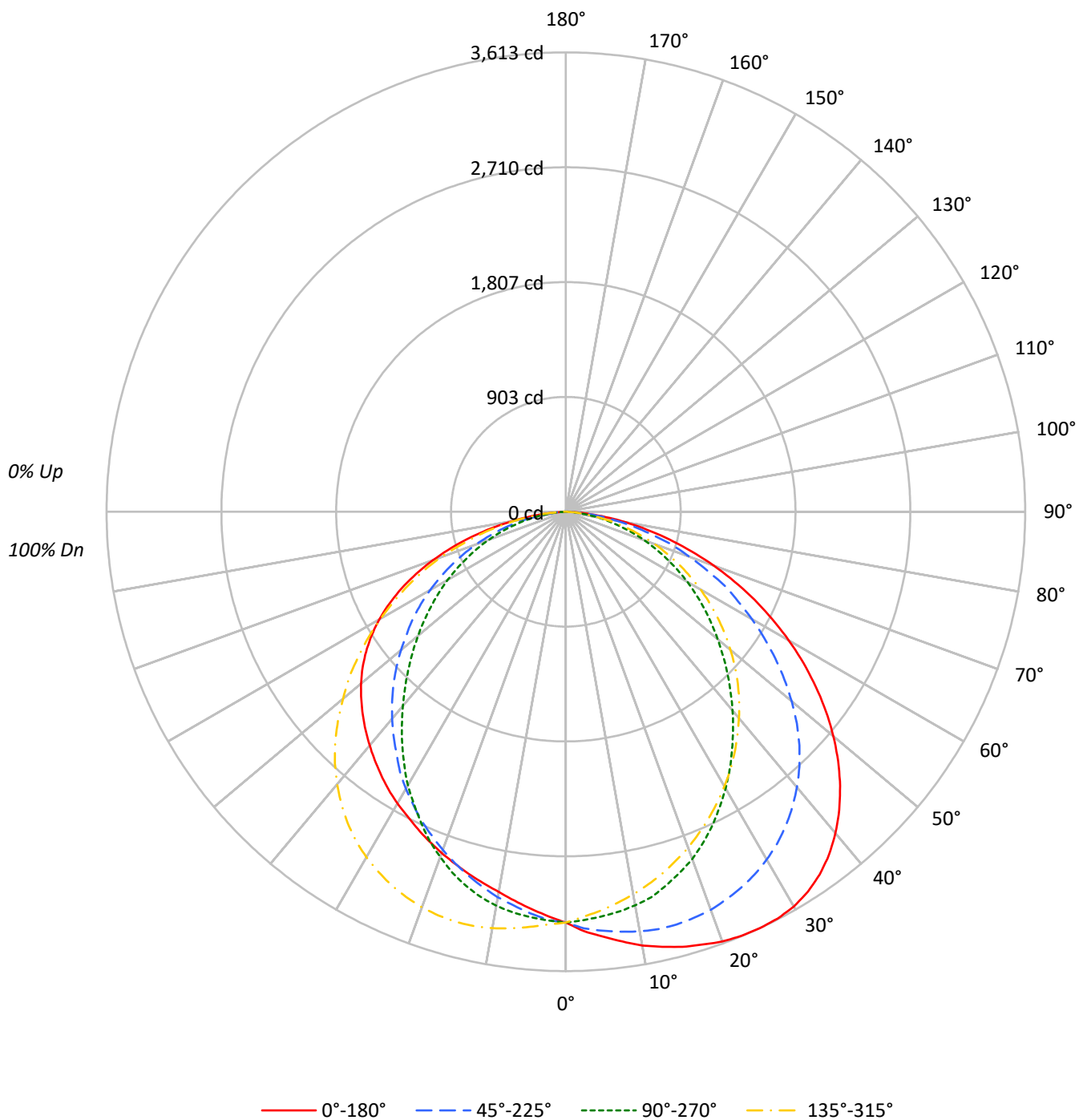
Lumens per Lamp: N/A
Luminaire Lumens: 9478.4 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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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°	4347	4347	4347	4347
5°	4530	4316	4234	4323
10°	4732	4293	4148	4300
15°	4935	4239	4108	4240
20°	5150	4162	4089	4138
25°	5364	4045	4089	4004
30°	5571	3905	4117	3861
35°	5719	3744	4158	3685
40°	5795	3583	4216	3502
45°	5806	3420	4297	3334
50°	5751	3264	4403	3177
55°	5632	3118	4501	3032
60°	5455	2967	4561	2890
65°	5211	2793	4537	2728
70°	4868	2588	4376	2541
75°	4380	2308	4015	2296
80°	3714	1932	3375	1962
85°	2583	1280	2141	1315

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.7	3.2
10°-20°	888.2	9.4
20°-30°	1361.2	14.4
30°-40°	1655.2	17.5
40°-50°	1720.7	18.2
50°-60°	1554.3	16.4
60°-70°	1181.6	12.5
70°-80°	658.8	7.0
80°-90°	151.7	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°	2556.2	27.0
0°-40°	4211.4	44.4
0°-60°	7486.3	79.0
0°-90°	9478.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9478.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3231	3231	3231	3231	3231	
5°	3354	3195	3135	3200	3354	323
15°	3543	3043	2949	3044	3543	1004
25°	3613	2725	2754	2697	3613	1669
35°	3482	2280	2531	2244	3482	2175
45°	3051	1797	2258	1752	3051	2349
55°	2401	1329	1919	1292	2401	2143
65°	1637	877	1425	857	1637	1618
75°	842	444	772	442	842	895
85°	167	83	139	85	167	211
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°	3230.7	3230.7	3230.7	3230.7	3230.7	3230.7	3230.7	3230.7	3230.7	3230.7	3230.7
2.5°	3302.3	3254.0	3254.8	3297.0	3264.6	3280.4	3235.2	3252.5	3247.3	3251.0	3214.1
5°	3354.3	3302.3	3301.5	3337.7	3301.5	3308.3	3251.0	3262.3	3245.7	3235.2	3195.3
7.5°	3409.3	3357.3	3352.0	3383.7	3336.2	3330.9	3267.6	3267.6	3237.5	3211.1	3173.4
10°	3463.5	3410.0	3403.3	3427.4	3368.6	3351.3	3274.4	3262.3	3222.4	3183.2	3142.5
12.5°	3504.2	3450.0	3444.7	3459.8	3393.5	3361.8	3274.4	3251.0	3192.2	3137.2	3105.6
15°	3542.7	3486.9	3472.6	3480.1	3404.0	3361.8	3263.8	3227.7	3152.3	3080.0	3043.0
17.5°	3569.8	3516.3	3502.0	3501.2	3409.3	3349.0	3241.2	3191.5	3101.1	3013.6	2976.7
20°	3596.9	3543.4	3525.3	3511.8	3407.8	3331.7	3208.1	3141.0	3035.5	2937.5	2906.6
22.5°	3610.5	3555.5	3535.9	3515.5	3398.0	3300.0	3167.4	3082.2	2961.6	2844.8	2819.2
25°	3612.8	3556.2	3535.1	3505.7	3378.4	3262.3	3114.6	3011.4	2876.5	2746.9	2725.0
27.5°	3606.7	3544.9	3523.8	3488.4	3349.0	3216.4	3052.1	2930.7	2786.1	2642.9	2619.5
30°	3585.6	3523.1	3502.7	3456.8	3307.5	3159.8	2983.5	2841.1	2685.8	2533.6	2513.3
32.5°	3543.4	3482.4	3465.8	3419.8	3262.3	3094.3	2903.6	2744.6	2575.0	2429.6	2399.5
35°	3481.6	3420.6	3410.0	3361.8	3199.0	3015.9	2816.2	2639.1	2457.5	2309.0	2279.6
37.5°	3401.0	3349.7	3333.9	3286.4	3124.4	2927.0	2716.0	2524.6	2337.7	2177.9	2159.8
40°	3299.3	3251.0	3239.0	3196.8	3037.8	2828.3	2607.5	2406.2	2214.1	2065.6	2040.0
42.5°	3183.2	3138.0	3131.2	3087.5	2930.7	2719.0	2489.9	2283.4	2085.2	1942.0	1916.4
45°	3051.3	3007.6	3006.1	2964.7	2813.9	2597.7	2366.3	2159.1	1959.4	1810.9	1797.3
47.5°	2905.9	2866.7	2866.7	2828.3	2683.6	2464.3	2238.9	2029.4	1832.8	1701.6	1677.5
50°	2747.6	2710.7	2699.4	2680.6	2539.6	2318.8	2104.8	1902.8	1707.7	1582.6	1559.2
52.5°	2578.8	2547.2	2554.7	2520.0	2383.6	2167.3	1969.2	1760.4	1581.8	1468.0	1444.6
55°	2401.0	2355.7	2362.5	2349.7	2220.9	2011.4	1816.9	1642.8	1458.2	1351.2	1329.3
57.5°	2216.3	2157.6	2181.7	2174.1	2047.5	1851.6	1677.5	1509.5	1335.4	1236.7	1215.6
60°	2027.2	1970.7	1995.5	1988.7	1869.7	1691.8	1533.6	1377.6	1213.3	1123.6	1102.5
62.5°	1832.8	1780.8	1803.4	1798.1	1688.8	1528.3	1390.4	1247.2	1090.5	1009.8	990.2
65°	1636.8	1587.1	1607.4	1603.7	1502.7	1380.6	1243.4	1112.3	966.9	896.8	877.2
67.5°	1436.4	1390.4	1409.2	1409.2	1316.5	1199.7	1095.7	975.9	845.5	785.2	767.2
70°	1237.4	1194.5	1211.0	1209.5	1131.2	1036.2	946.5	839.5	722.7	673.0	657.9
72.5°	1037.0	999.3	1014.3	1012.8	947.3	886.2	797.3	704.6	602.9	562.9	549.4
75°	842.5	807.1	821.4	819.9	766.4	709.1	649.6	572.7	485.3	457.4	443.9
77.5°	657.1	621.0	633.0	633.0	593.8	552.4	504.9	445.4	383.6	353.4	343.6
80°	479.3	462.0	455.9	456.7	430.3	403.2	379.1	321.8	276.6	256.2	249.4
82.5°	315.0	300.7	294.7	296.2	281.1	264.5	249.4	209.5	179.4	167.3	163.5
85°	167.3	156.7	151.5	155.2	152.2	143.2	135.6	108.5	89.7	85.2	82.9
87.5°	52.8	46.0	42.2	55.8	47.5	42.2	40.7	32.4	24.9	24.9	24.1
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°	3230.7	3230.7	3230.7	3230.7	3230.7	3230.7	3230.7	3230.7	3230.7	3230.7	3230.7
2.5°	3226.2	3226.2	3196.8	3190.0	3187.0	3190.7	3161.3	3156.1	3198.3	3184.0	3151.5
5°	3200.5	3199.0	3157.6	3150.0	3150.0	3145.5	3112.4	3104.8	3147.0	3135.0	3099.6
7.5°	3168.9	3164.4	3115.4	3110.1	3102.6	3099.6	3062.6	3057.3	3093.5	3086.0	3052.8
10°	3130.4	3125.9	3067.9	3064.1	3055.8	3049.8	3015.1	3011.4	3048.3	3036.2	3009.9
12.5°	3080.0	3071.7	3012.1	3008.4	3001.6	2999.3	2965.4	2963.9	3004.6	2992.5	2964.7
15°	3013.6	3006.9	2940.5	2942.0	2942.8	2942.8	2915.7	2914.2	2954.1	2948.8	2918.7
17.5°	2940.5	2931.5	2868.2	2872.7	2878.0	2884.0	2862.9	2866.7	2908.9	2902.1	2875.0
20°	2857.6	2848.6	2786.8	2799.6	2810.9	2823.0	2809.4	2820.0	2859.2	2856.1	2835.8
22.5°	2765.0	2755.9	2698.6	2718.2	2737.1	2759.7	2753.6	2765.7	2807.2	2806.4	2788.3
25°	2651.9	2654.2	2603.7	2627.8	2659.4	2691.1	2693.4	2713.0	2758.9	2754.4	2737.8
27.5°	2546.4	2549.4	2495.9	2536.6	2578.8	2619.5	2629.3	2656.4	2703.2	2699.4	2685.1
30°	2435.6	2439.4	2387.4	2443.2	2494.4	2544.1	2565.3	2602.2	2649.7	2649.7	2634.6
32.5°	2320.3	2327.1	2272.9	2347.5	2407.0	2465.0	2501.9	2540.4	2594.6	2593.1	2580.3
35°	2202.0	2209.6	2159.8	2254.8	2314.3	2385.1	2431.1	2482.4	2530.6	2531.3	2521.5
37.5°	2081.4	2090.5	2045.3	2149.3	2217.1	2300.7	2359.5	2410.8	2464.3	2467.3	2458.2
40°	1961.6	1971.4	1932.2	2032.5	2118.4	2211.8	2279.6	2339.9	2398.7	2400.2	2394.2
42.5°	1841.8	1852.3	1823.0	1920.9	2018.1	2118.4	2198.2	2266.8	2327.1	2330.9	2324.1
45°	1725.0	1734.0	1712.9	1819.9	1913.4	2022.7	2114.6	2192.2	2253.3	2258.5	2256.3
47.5°	1608.9	1617.2	1598.4	1696.4	1804.1	1920.2	2026.4	2112.3	2177.1	2183.2	2181.7
50°	1495.1	1501.9	1481.6	1584.1	1691.1	1814.7	1925.4	2024.9	2097.3	2103.3	2102.5
52.5°	1382.1	1388.9	1371.5	1479.3	1576.5	1706.9	1827.5	1935.2	2006.8	2015.9	2017.4
55°	1272.8	1275.8	1262.3	1365.5	1459.7	1596.1	1734.8	1839.5	1911.1	1918.7	1923.2
57.5°	1163.6	1164.3	1153.0	1251.7	1342.2	1481.6	1627.0	1737.0	1804.9	1812.4	1819.2
60°	1055.0	1054.3	1041.5	1137.2	1223.8	1361.8	1513.2	1622.5	1688.1	1694.8	1703.9
62.5°	947.3	945.0	933.7	1021.9	1103.3	1239.7	1391.9	1497.4	1559.9	1564.5	1576.5
65°	840.3	838.0	827.5	908.8	982.7	1113.1	1262.3	1362.5	1419.0	1425.1	1422.8
67.5°	734.8	730.2	721.9	795.0	862.1	982.7	1125.9	1221.6	1268.3	1273.6	1287.9
70°	629.3	624.0	605.1	682.8	741.5	849.3	982.7	1067.8	1107.0	1112.3	1110.1
72.5°	525.3	520.0	499.6	571.2	621.0	715.2	834.2	905.1	939.0	943.5	943.5
75°	424.3	421.3	408.5	462.7	504.2	581.0	682.0	740.8	767.2	772.4	770.9
77.5°	327.1	324.8	312.0	358.7	391.1	448.4	529.8	575.7	595.3	601.4	614.2
80°	234.4	233.6	213.3	259.2	273.6	321.8	381.3	416.7	427.3	435.6	444.6
82.5°	150.0	150.7	130.4	169.6	175.6	206.5	243.4	265.3	272.8	279.6	286.4
85°	73.1	76.1	64.8	89.7	90.4	106.3	122.1	130.4	133.4	138.7	144.7
87.5°	18.8	21.9	12.1	25.6	22.6	29.4	33.9	36.2	35.4	39.2	41.4
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	3230.7	3230.7	3230.7	3230.7	3230.7	3230.7	3230.7	3230.7	3230.7	3230.7	3230.7
2.5°	3162.1	3186.2	3174.2	3213.3	3228.4	3204.3	3246.5	3247.3	3217.1	3252.5	3272.1
5°	3113.1	3138.0	3130.4	3171.1	3190.0	3168.9	3220.1	3229.9	3200.5	3240.5	3272.1
7.5°	3063.4	3092.8	3083.0	3124.4	3147.0	3130.4	3185.5	3201.3	3178.7	3222.4	3264.6
10°	3020.4	3045.3	3034.7	3078.5	3098.0	3084.5	3138.7	3168.1	3147.0	3200.5	3251.0
12.5°	2978.2	2998.6	2986.5	3022.7	3041.5	3024.2	3090.5	3117.6	3102.6	3158.3	3223.1
15°	2924.0	2946.6	2930.0	2962.4	2976.7	2961.6	3015.9	3062.6	3043.8	3104.8	3176.4
17.5°	2882.5	2895.3	2872.7	2898.3	2906.6	2886.3	2941.3	2987.3	2973.7	3040.0	3122.9
20°	2836.5	2847.1	2815.4	2829.8	2829.0	2803.4	2853.9	2899.1	2890.1	2963.2	3057.3
22.5°	2785.3	2790.6	2753.6	2756.7	2755.2	2713.0	2758.2	2804.1	2800.4	2874.2	2979.7
25°	2731.0	2731.8	2684.3	2682.8	2666.2	2616.5	2656.4	2708.4	2697.1	2777.0	2887.8
27.5°	2677.5	2670.0	2612.7	2599.2	2572.8	2513.3	2548.7	2595.4	2588.6	2667.0	2789.8
30°	2620.3	2610.5	2540.4	2515.5	2477.1	2408.5	2437.9	2481.6	2485.4	2553.9	2682.8
32.5°	2566.0	2541.1	2463.5	2427.3	2379.1	2299.2	2315.1	2359.5	2365.5	2434.9	2567.5
35°	2495.9	2479.3	2383.6	2321.8	2274.4	2186.9	2203.5	2234.4	2243.5	2311.3	2446.2
37.5°	2429.6	2403.2	2301.5	2226.1	2165.1	2073.2	2077.7	2109.3	2118.4	2186.9	2320.3
40°	2361.0	2323.3	2214.1	2125.9	2055.8	1959.4	1954.1	1987.2	1994.0	2061.1	2181.7
42.5°	2287.9	2242.7	2119.9	2023.4	1942.8	1844.8	1834.3	1862.9	1870.4	1936.0	2054.3
45°	2214.1	2159.8	2023.4	1917.9	1829.7	1729.5	1719.0	1740.8	1752.1	1813.9	1927.7
47.5°	2135.7	2072.4	1923.9	1806.4	1715.2	1615.0	1602.2	1624.0	1633.0	1694.1	1801.9
50°	2053.6	1976.7	1821.4	1691.8	1601.4	1502.7	1483.8	1509.5	1517.7	1575.0	1680.5
52.5°	1963.1	1878.0	1712.2	1576.5	1486.1	1391.9	1369.3	1394.2	1404.0	1459.7	1556.9
55°	1867.4	1775.5	1602.2	1470.3	1372.3	1280.4	1261.5	1271.3	1292.4	1345.2	1435.6
57.5°	1759.7	1668.5	1486.1	1352.0	1257.8	1169.6	1153.8	1162.8	1182.4	1233.6	1315.0
60°	1645.1	1548.6	1367.8	1233.6	1142.5	1058.8	1044.5	1052.8	1073.9	1120.6	1196.0
62.5°	1532.1	1423.5	1245.7	1112.3	1029.4	951.8	948.0	945.0	964.6	1009.8	1076.1
65°	1394.9	1290.9	1118.3	991.7	916.4	846.3	831.2	838.0	856.8	898.3	967.6
67.5°	1248.0	1153.8	988.0	871.2	804.1	741.5	728.7	731.7	751.3	787.5	847.8
70°	1092.0	1009.1	854.6	749.8	693.3	634.5	626.2	627.0	645.8	677.5	730.2
72.5°	928.4	853.8	719.7	630.0	583.3	541.1	533.5	524.5	541.8	569.0	614.2
75°	761.9	696.3	585.5	512.4	475.5	440.1	433.3	424.3	441.6	465.0	500.4
77.5°	593.8	541.1	455.2	398.7	370.0	343.6	337.6	327.8	345.1	362.5	390.4
80°	429.6	391.1	339.9	280.3	270.5	253.2	247.2	236.6	253.2	264.5	285.6
82.5°	277.3	251.7	222.3	180.9	179.4	166.5	163.5	151.5	166.5	173.3	189.2
85°	140.2	128.1	120.6	91.9	95.0	86.7	85.9	73.1	85.2	88.2	97.2
87.5°	39.9	42.2	37.7	22.6	28.6	27.1	27.1	19.6	27.1	27.1	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

TEST NUMBER: P838114

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-2HI-40-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3230.7	3230.7	3230.7	3230.7	3230.7	3230.7	3230.7	3230.7
2.5°	3233.7	3246.5	3249.5	3248.8	3257.1	3302.3	3287.2	3302.3
5°	3241.2	3269.9	3277.4	3288.0	3301.5	3352.8	3336.2	3354.3
7.5°	3245.7	3288.7	3305.3	3325.6	3347.5	3404.8	3391.2	3409.3
10°	3245.7	3301.5	3325.6	3359.5	3388.9	3455.3	3442.4	3463.5
12.5°	3232.2	3303.8	3337.7	3385.2	3422.8	3494.4	3489.2	3504.2
15°	3204.3	3292.5	3339.2	3400.2	3447.0	3526.8	3524.6	3542.7
17.5°	3166.6	3272.9	3329.4	3406.3	3465.0	3554.7	3560.0	3569.8
20°	3119.1	3236.0	3309.8	3404.0	3477.9	3576.6	3583.4	3596.9
22.5°	3056.6	3191.5	3280.4	3394.2	3479.4	3585.6	3597.7	3610.5
25°	2982.7	3138.0	3242.0	3375.4	3471.8	3584.9	3601.4	3612.8
27.5°	2898.3	3068.7	3193.0	3345.2	3450.7	3572.8	3593.2	3606.7
30°	2800.4	2994.8	3137.2	3306.0	3422.1	3550.2	3572.1	3585.6
32.5°	2699.4	2913.4	3070.9	3255.5	3380.6	3514.0	3532.9	3543.4
35°	2589.4	2814.7	2991.0	3190.7	3327.1	3456.0	3470.3	3481.6
37.5°	2469.5	2707.7	2899.8	3117.6	3251.8	3375.4	3388.2	3401.0
40°	2346.0	2595.4	2797.4	3028.0	3162.1	3276.6	3290.2	3299.3
42.5°	2221.6	2471.1	2688.1	2922.5	3055.8	3165.9	3174.2	3183.2
45°	2095.8	2342.2	2565.3	2805.6	2937.5	3040.8	3043.8	3051.3
47.5°	1967.6	2208.8	2430.4	2672.3	2802.6	2896.8	2899.8	2905.9
50°	1838.8	2075.4	2286.4	2528.3	2655.7	2755.2	2741.6	2747.6
52.5°	1712.2	1935.2	2150.8	2373.1	2498.9	2587.1	2590.9	2578.8
55°	1587.8	1798.1	1996.3	2210.3	2330.1	2398.7	2396.4	2401.0
57.5°	1462.0	1659.4	1841.0	2037.0	2153.8	2218.6	2232.2	2216.3
60°	1333.9	1519.3	1682.0	1859.1	1972.2	2026.4	2042.3	2027.2
62.5°	1206.5	1376.8	1524.5	1679.0	1783.8	1850.8	1849.3	1832.8
65°	1079.2	1233.6	1365.5	1496.6	1587.8	1654.9	1651.9	1636.8
67.5°	961.6	1089.0	1207.3	1313.5	1392.7	1438.6	1454.4	1436.4
70°	832.0	942.0	1046.0	1131.2	1196.7	1238.2	1253.2	1237.4
72.5°	702.4	795.8	868.9	951.0	1001.5	1036.2	1052.0	1037.0
75°	574.2	651.1	710.6	774.7	810.1	839.5	857.6	842.5
77.5°	449.9	509.4	556.9	603.6	644.3	651.1	666.9	657.1
80°	331.6	374.5	409.2	440.1	469.5	472.5	485.3	479.3
82.5°	220.8	249.4	258.5	290.9	309.7	306.7	319.5	315.0
85°	116.8	134.1	150.0	159.8	170.3	160.5	171.8	167.3
87.5°	39.2	41.4	36.2	51.2	56.5	48.2	55.0	52.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)