

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: P837891

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-6STD-35-120-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: P837891
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-LD4-6STD-35-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

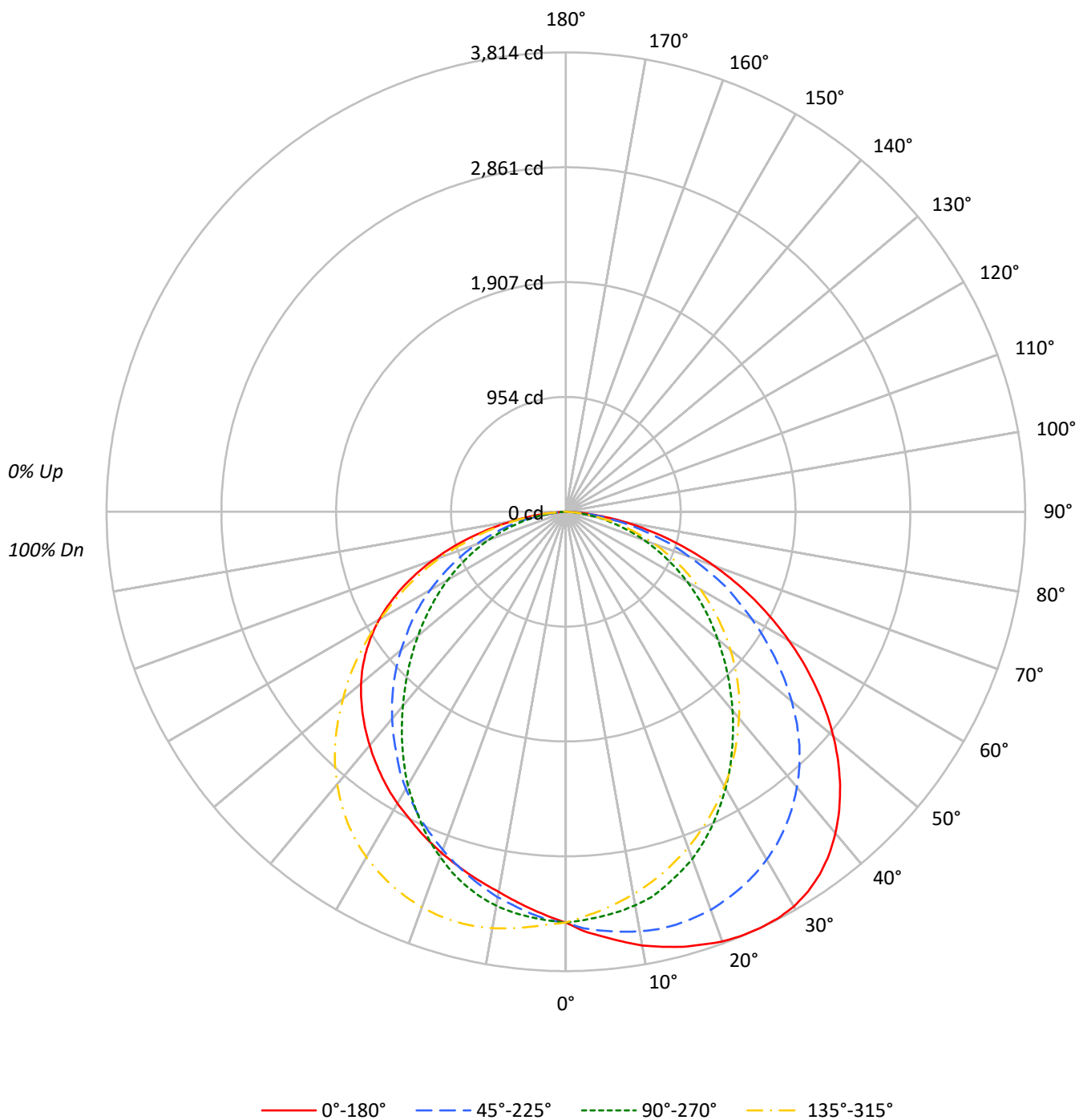
Lumens per Lamp: N/A
Luminaire Lumens: 10005.8 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	9178	9178	9178	9178
5°	9565	9112	8940	9126
10°	9991	9065	8758	9078
15°	10419	8949	8672	8952
20°	10874	8787	8634	8737
25°	11324	8541	8633	8454
30°	11762	8244	8691	8153
35°	12074	7906	8778	7780
40°	12234	7565	8901	7394
45°	12258	7220	9073	7039
50°	12143	6891	9295	6707
55°	11891	6584	9502	6401
60°	11517	6264	9629	6101
65°	11002	5896	9579	5759
70°	10278	5464	9238	5364
75°	9247	4872	8478	4847
80°	7841	4080	7125	4142
85°	5453	2702	4520	2776

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.8	3.2
10°-20°	937.6	9.4
20°-30°	1437.0	14.4
30°-40°	1747.3	17.5
40°-50°	1816.4	18.2
50°-60°	1640.8	16.4
60°-70°	1247.4	12.5
70°-80°	695.4	7.0
80°-90°	160.1	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°	2698.4	27.0
0°-40°	4445.7	44.4
0°-60°	7902.9	79.0
0°-90°	10005.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10005.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3410	3410	3410	3410	3410	
5°	3541	3373	3309	3379	3541	341
15°	3740	3212	3113	3213	3740	1060
25°	3814	2877	2908	2847	3814	1761
35°	3675	2406	2672	2368	3675	2296
45°	3221	1897	2384	1850	3221	2480
55°	2535	1403	2025	1364	2535	2263
65°	1728	926	1504	904	1728	1708
75°	889	469	815	466	889	945
85°	177	88	146	90	177	222
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°	3410.5	3410.5	3410.5	3410.5	3410.5	3410.5	3410.5	3410.5	3410.5	3410.5	3410.5
2.5°	3486.0	3435.1	3435.9	3480.5	3446.3	3463.0	3415.2	3433.5	3428.0	3431.9	3393.0
5°	3540.9	3486.0	3485.2	3523.4	3485.2	3492.4	3431.9	3443.9	3426.4	3415.2	3373.1
7.5°	3599.0	3544.1	3538.5	3571.9	3521.8	3516.3	3449.4	3449.4	3417.6	3389.8	3350.0
10°	3656.3	3599.8	3592.6	3618.1	3556.0	3537.7	3456.6	3443.9	3401.7	3360.3	3317.4
12.5°	3699.2	3642.0	3636.4	3652.3	3582.3	3548.9	3456.6	3431.9	3369.9	3311.8	3278.4
15°	3739.8	3680.9	3665.8	3673.8	3593.4	3548.9	3445.5	3407.3	3327.7	3251.3	3212.4
17.5°	3768.4	3712.0	3696.8	3696.1	3599.0	3535.4	3421.6	3369.1	3273.6	3181.3	3142.4
20°	3797.1	3740.6	3721.5	3707.2	3597.4	3517.1	3386.6	3315.8	3204.4	3101.0	3068.4
22.5°	3811.4	3753.3	3732.6	3711.2	3587.1	3483.6	3343.6	3253.7	3126.5	3003.1	2976.1
25°	3813.8	3754.1	3731.9	3700.8	3566.4	3443.9	3287.9	3179.0	3036.6	2899.7	2876.7
27.5°	3807.4	3742.2	3719.9	3682.5	3535.4	3395.3	3221.9	3093.8	2941.1	2789.9	2765.3
30°	3785.2	3719.1	3697.6	3649.1	3491.6	3335.7	3149.5	2999.2	2835.3	2674.6	2653.1
32.5°	3740.6	3676.2	3658.7	3610.1	3443.9	3266.5	3065.2	2897.3	2718.3	2564.8	2533.0
35°	3675.4	3610.9	3599.8	3548.9	3377.0	3183.7	2972.9	2786.0	2594.2	2437.5	2406.5
37.5°	3590.2	3536.2	3519.4	3469.3	3298.3	3089.9	2867.1	2665.0	2467.7	2299.1	2280.0
40°	3482.8	3431.9	3419.2	3374.7	3206.8	2985.6	2752.5	2540.1	2337.3	2180.6	2153.5
42.5°	3360.3	3312.6	3305.4	3259.3	3093.8	2870.3	2628.4	2410.5	2201.2	2050.1	2023.0
45°	3221.1	3175.0	3173.4	3129.6	2970.5	2742.2	2498.0	2279.2	2068.4	1911.7	1897.3
47.5°	3067.6	3026.2	3026.2	2985.6	2832.9	2601.4	2363.5	2142.4	1934.7	1796.3	1770.9
50°	2900.5	2861.5	2849.6	2829.7	2681.0	2447.9	2221.9	2008.7	1802.7	1670.6	1646.0
52.5°	2722.3	2688.9	2696.9	2660.3	2516.3	2288.0	2078.7	1858.4	1669.8	1549.7	1525.0
55°	2534.6	2486.8	2494.0	2480.5	2344.4	2123.3	1918.0	1734.3	1539.4	1426.4	1403.3
57.5°	2339.7	2277.6	2303.1	2295.1	2161.5	1954.6	1770.9	1593.5	1409.7	1305.5	1283.2
60°	2140.0	2080.3	2106.6	2099.4	1973.7	1786.0	1618.9	1454.2	1280.8	1186.1	1163.9
62.5°	1934.7	1879.8	1903.7	1898.1	1782.8	1613.3	1467.8	1316.6	1151.1	1066.0	1045.3
65°	1727.9	1675.4	1696.9	1692.9	1586.3	1457.4	1312.6	1174.2	1020.7	946.7	926.0
67.5°	1516.3	1467.8	1487.6	1487.6	1389.8	1266.5	1156.7	1030.2	892.6	828.9	809.9
70°	1306.3	1260.9	1278.4	1276.8	1194.1	1093.9	999.2	886.2	762.9	710.4	694.5
72.5°	1094.7	1054.9	1070.8	1069.2	1000.0	935.5	841.7	743.8	636.4	594.3	579.9
75°	889.4	852.0	867.1	865.5	809.1	748.6	685.8	604.6	512.3	482.9	468.6
77.5°	693.7	655.5	668.2	668.2	626.9	583.1	533.0	470.2	404.9	373.1	362.8
80°	506.0	487.7	481.3	482.1	454.3	425.6	400.2	339.7	292.0	270.5	263.3
82.5°	332.5	317.4	311.1	312.6	296.7	279.2	263.3	221.2	189.3	176.6	172.6
85°	176.6	165.5	159.9	163.9	160.7	151.2	143.2	114.6	94.7	89.9	87.5
87.5°	55.7	48.5	44.5	58.9	50.1	44.5	43.0	34.2	26.3	26.3	25.5
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°	3410.5	3410.5	3410.5	3410.5	3410.5	3410.5	3410.5	3410.5	3410.5	3410.5	3410.5
2.5°	3405.7	3405.7	3374.7	3367.5	3364.3	3368.3	3337.3	3331.7	3376.2	3361.1	3326.9
5°	3378.6	3377.0	3333.3	3325.3	3325.3	3320.6	3285.6	3277.6	3322.2	3309.4	3272.0
7.5°	3345.2	3340.4	3288.7	3283.2	3275.2	3272.0	3233.1	3227.5	3265.7	3257.7	3222.7
10°	3304.6	3299.9	3238.6	3234.6	3225.9	3219.5	3182.9	3179.0	3217.9	3205.2	3177.4
12.5°	3251.3	3242.6	3179.8	3175.8	3168.6	3166.2	3130.4	3128.8	3171.8	3159.1	3129.6
15°	3181.3	3174.2	3104.2	3105.8	3106.6	3106.6	3077.9	3076.3	3118.5	3112.9	3081.1
17.5°	3104.2	3094.6	3027.8	3032.6	3038.1	3044.5	3022.2	3026.2	3070.8	3063.6	3035.0
20°	3016.7	3007.1	2941.9	2955.4	2967.3	2980.1	2965.8	2976.9	3018.3	3015.1	2993.6
22.5°	2918.8	2909.3	2848.8	2869.5	2889.4	2913.2	2906.9	2919.6	2963.4	2962.6	2943.5
25°	2799.5	2801.9	2748.6	2774.0	2807.4	2840.9	2843.2	2863.9	2912.5	2907.7	2890.2
27.5°	2688.1	2691.3	2634.8	2677.8	2722.3	2765.3	2775.6	2804.3	2853.6	2849.6	2834.5
30°	2571.2	2575.1	2520.3	2579.1	2633.2	2685.7	2708.0	2747.0	2797.1	2797.1	2781.2
32.5°	2449.5	2456.6	2399.3	2478.1	2540.9	2602.2	2641.2	2681.7	2739.0	2737.4	2723.9
35°	2324.6	2332.5	2280.0	2380.2	2443.1	2517.9	2566.4	2620.5	2671.4	2672.2	2661.9
37.5°	2197.3	2206.8	2159.1	2268.9	2340.5	2428.8	2490.8	2544.9	2601.4	2604.6	2595.0
40°	2070.8	2081.1	2039.8	2145.6	2236.2	2334.9	2406.5	2470.1	2532.2	2533.8	2527.4
42.5°	1944.3	1955.4	1924.4	2027.8	2130.4	2236.2	2320.6	2393.0	2456.6	2460.6	2453.4
45°	1821.0	1830.5	1808.2	1921.2	2019.9	2135.2	2232.3	2314.2	2378.6	2384.2	2381.8
47.5°	1698.5	1707.2	1687.3	1790.7	1904.5	2027.0	2139.2	2229.9	2298.3	2304.7	2303.1
50°	1578.3	1585.5	1564.0	1672.2	1785.2	1915.6	2032.6	2137.6	2214.0	2220.3	2219.5
52.5°	1459.0	1466.2	1447.9	1561.6	1664.3	1801.9	1929.2	2042.9	2118.5	2128.1	2129.6
55°	1343.7	1346.8	1332.5	1441.5	1541.0	1684.9	1831.3	1941.9	2017.5	2025.4	2030.2
57.5°	1228.3	1229.1	1217.2	1321.4	1416.8	1564.0	1717.6	1833.7	1905.3	1913.3	1920.4
60°	1113.7	1113.0	1099.4	1200.5	1291.9	1437.5	1597.4	1712.8	1782.0	1789.2	1798.7
62.5°	1000.0	997.6	985.7	1078.7	1164.7	1308.7	1469.4	1580.7	1646.8	1651.5	1664.3
65°	887.0	884.6	873.5	959.4	1037.4	1175.0	1332.5	1438.3	1498.0	1504.4	1502.0
67.5°	775.6	770.9	762.1	839.3	910.1	1037.4	1188.5	1289.6	1338.9	1344.5	1359.6
70°	664.3	658.7	638.8	720.8	782.8	896.6	1037.4	1127.3	1168.6	1174.2	1171.8
72.5°	554.5	548.9	527.4	603.0	655.5	755.0	880.7	955.4	991.2	996.0	996.0
75°	447.9	444.7	431.2	488.5	532.2	613.4	720.0	782.0	809.9	815.4	813.8
77.5°	345.3	342.9	329.4	378.7	412.9	473.3	559.3	607.8	628.5	634.8	648.4
80°	247.4	246.6	225.1	273.7	288.8	339.7	402.5	439.9	451.1	459.8	469.4
82.5°	158.3	159.1	137.6	179.0	185.4	218.0	257.0	280.0	288.0	295.1	302.3
85°	77.2	80.3	68.4	94.7	95.5	112.2	128.9	137.6	140.8	146.4	152.7
87.5°	19.9	23.1	12.7	27.0	23.9	31.0	35.8	38.2	37.4	41.4	43.8
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°	3410.5	3410.5	3410.5	3410.5	3410.5	3410.5	3410.5	3410.5	3410.5	3410.5	3410.5
2.5°	3338.1	3363.5	3350.8	3392.2	3408.1	3382.6	3427.2	3428.0	3396.1	3433.5	3454.2
5°	3286.4	3312.6	3304.6	3347.6	3367.5	3345.2	3399.3	3409.7	3378.6	3420.8	3454.2
7.5°	3233.8	3264.9	3254.5	3298.3	3322.2	3304.6	3362.7	3379.4	3355.6	3401.7	3446.3
10°	3188.5	3214.8	3203.6	3249.8	3270.4	3256.1	3313.4	3344.4	3322.2	3378.6	3431.9
12.5°	3144.0	3165.4	3152.7	3190.9	3210.8	3192.5	3262.5	3291.1	3275.2	3334.1	3402.5
15°	3086.7	3110.5	3093.0	3127.2	3142.4	3126.5	3183.7	3233.1	3213.2	3277.6	3353.2
17.5°	3042.9	3056.4	3032.6	3059.6	3068.4	3046.9	3105.0	3153.5	3139.2	3209.2	3296.7
20°	2994.4	3005.5	2972.1	2987.2	2986.4	2959.4	3012.7	3060.4	3050.9	3128.0	3227.5
22.5°	2940.3	2945.9	2906.9	2910.1	2908.5	2863.9	2911.7	2960.2	2956.2	3034.2	3145.5
25°	2883.0	2883.8	2833.7	2832.1	2814.6	2762.1	2804.3	2859.2	2847.2	2931.5	3048.5
27.5°	2826.5	2818.6	2758.1	2743.8	2716.0	2653.1	2690.5	2739.8	2732.7	2815.4	2945.1
30°	2766.1	2755.7	2681.7	2655.5	2614.9	2542.5	2573.6	2619.7	2623.7	2696.1	2832.1
32.5°	2708.8	2682.5	2600.6	2562.4	2511.5	2427.2	2443.9	2490.8	2497.2	2570.4	2710.4
35°	2634.8	2617.3	2516.3	2451.0	2400.9	2308.6	2326.1	2358.8	2368.3	2439.9	2582.3
37.5°	2564.8	2537.0	2429.6	2350.0	2285.6	2188.5	2193.3	2226.7	2236.2	2308.6	2449.5
40°	2492.4	2452.6	2337.3	2244.2	2170.2	2068.4	2062.8	2097.8	2105.0	2175.8	2303.1
42.5°	2415.2	2367.5	2237.8	2136.0	2050.9	1947.5	1936.3	1966.6	1974.5	2043.7	2168.6
45°	2337.3	2280.0	2136.0	2024.6	1931.6	1825.8	1814.6	1837.7	1849.6	1914.9	2035.0
47.5°	2254.5	2187.7	2031.0	1906.9	1810.6	1704.8	1691.3	1714.4	1723.9	1788.4	1902.1
50°	2167.8	2086.7	1922.8	1786.0	1690.5	1586.3	1566.4	1593.5	1602.2	1662.7	1774.0
52.5°	2072.4	1982.5	1807.5	1664.3	1568.8	1469.4	1445.5	1471.7	1482.1	1541.0	1643.6
55°	1971.3	1874.3	1691.3	1552.1	1448.7	1351.6	1331.7	1342.1	1364.3	1420.0	1515.5
57.5°	1857.6	1761.3	1568.8	1427.2	1327.7	1234.7	1218.0	1227.5	1248.2	1302.3	1388.2
60°	1736.7	1634.8	1443.9	1302.3	1206.0	1117.7	1102.6	1111.4	1133.6	1183.0	1262.5
62.5°	1617.3	1502.8	1315.0	1174.2	1086.7	1004.8	1000.8	997.6	1018.3	1066.0	1136.0
65°	1472.5	1362.8	1180.6	1046.9	967.4	893.4	877.5	884.6	904.5	948.3	1021.5
67.5°	1317.4	1218.0	1042.9	919.6	848.8	782.8	769.3	772.5	793.1	831.3	895.0
70°	1152.7	1065.2	902.1	791.6	731.9	669.8	661.1	661.9	681.8	715.2	770.9
72.5°	980.1	901.3	759.7	665.1	615.7	571.2	563.2	553.7	572.0	600.6	648.4
75°	804.3	735.1	618.1	541.0	502.0	464.6	457.4	447.9	466.2	490.8	528.2
77.5°	626.9	571.2	480.5	420.8	390.6	362.8	356.4	346.1	364.4	382.7	412.1
80°	453.5	412.9	358.8	295.9	285.6	267.3	260.9	249.8	267.3	279.2	301.5
82.5°	292.8	265.7	234.7	190.9	189.3	175.8	172.6	159.9	175.8	183.0	199.7
85°	148.0	135.2	127.3	97.1	100.2	91.5	90.7	77.2	89.9	93.1	102.6
87.5°	42.2	44.5	39.8	23.9	30.2	28.6	28.6	20.7	28.6	28.6	32.6
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: P837891

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-6STD-35-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3410.5	3410.5	3410.5	3410.5	3410.5	3410.5	3410.5	3410.5
2.5°	3413.6	3427.2	3430.3	3429.5	3438.3	3486.0	3470.1	3486.0
5°	3421.6	3451.8	3459.8	3470.9	3485.2	3539.3	3521.8	3540.9
7.5°	3426.4	3471.7	3489.2	3510.7	3533.8	3594.2	3579.9	3599.0
10°	3426.4	3485.2	3510.7	3546.5	3577.5	3647.5	3634.0	3656.3
12.5°	3412.0	3487.6	3523.4	3573.5	3613.3	3688.9	3683.3	3699.2
15°	3382.6	3475.7	3525.0	3589.5	3638.8	3723.1	3720.7	3739.8
17.5°	3342.8	3455.0	3514.7	3595.8	3657.9	3752.5	3758.1	3768.4
20°	3292.7	3416.0	3494.0	3593.4	3671.4	3775.6	3782.8	3797.1
22.5°	3226.7	3369.1	3463.0	3583.1	3673.0	3785.2	3797.9	3811.4
25°	3148.7	3312.6	3422.4	3563.2	3665.0	3784.4	3801.9	3813.8
27.5°	3059.6	3239.4	3370.7	3531.4	3642.8	3771.6	3793.1	3807.4
30°	2956.2	3161.5	3311.8	3490.0	3612.5	3747.8	3770.8	3785.2
32.5°	2849.6	3075.5	3241.8	3436.7	3568.8	3709.6	3729.5	3740.6
35°	2733.5	2971.3	3157.5	3368.3	3512.3	3648.3	3663.4	3675.4
37.5°	2607.0	2858.4	3061.2	3291.1	3432.7	3563.2	3576.7	3590.2
40°	2476.5	2739.8	2953.0	3196.5	3338.1	3459.0	3473.3	3482.8
42.5°	2345.2	2608.6	2837.7	3085.1	3225.9	3342.0	3350.8	3360.3
45°	2212.4	2472.5	2708.0	2961.8	3101.0	3210.0	3213.2	3221.1
47.5°	2077.1	2331.7	2565.6	2821.0	2958.6	3058.0	3061.2	3067.6
50°	1941.1	2190.9	2413.7	2669.0	2803.5	2908.5	2894.2	2900.5
52.5°	1807.5	2042.9	2270.5	2505.1	2638.0	2731.1	2735.0	2722.3
55°	1676.2	1898.1	2107.4	2333.3	2459.8	2532.2	2529.8	2534.6
57.5°	1543.3	1751.8	1943.5	2150.3	2273.6	2342.1	2356.4	2339.7
60°	1408.1	1603.8	1775.6	1962.6	2081.9	2139.2	2155.9	2140.0
62.5°	1273.7	1453.4	1609.4	1772.5	1883.0	1953.8	1952.2	1934.7
65°	1139.2	1302.3	1441.5	1579.9	1676.2	1747.0	1743.8	1727.9
67.5°	1015.1	1149.5	1274.4	1386.6	1470.1	1518.7	1535.4	1516.3
70°	878.3	994.4	1104.2	1194.1	1263.3	1307.1	1323.0	1306.3
72.5°	741.4	840.1	917.3	1004.0	1057.3	1093.9	1110.6	1094.7
75°	606.2	687.3	750.2	817.8	855.2	886.2	905.3	889.4
77.5°	474.9	537.8	587.9	637.2	680.2	687.3	704.0	693.7
80°	350.0	395.4	432.0	464.6	495.6	498.8	512.3	506.0
82.5°	233.1	263.3	272.9	307.1	327.0	323.8	337.3	332.5
85°	123.3	141.6	158.3	168.7	179.8	169.4	181.4	176.6
87.5°	41.4	43.8	38.2	54.1	59.7	50.9	58.1	55.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)