

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: P838062

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-3STD-27-120-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: P838062
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-LD4-3STD-27-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

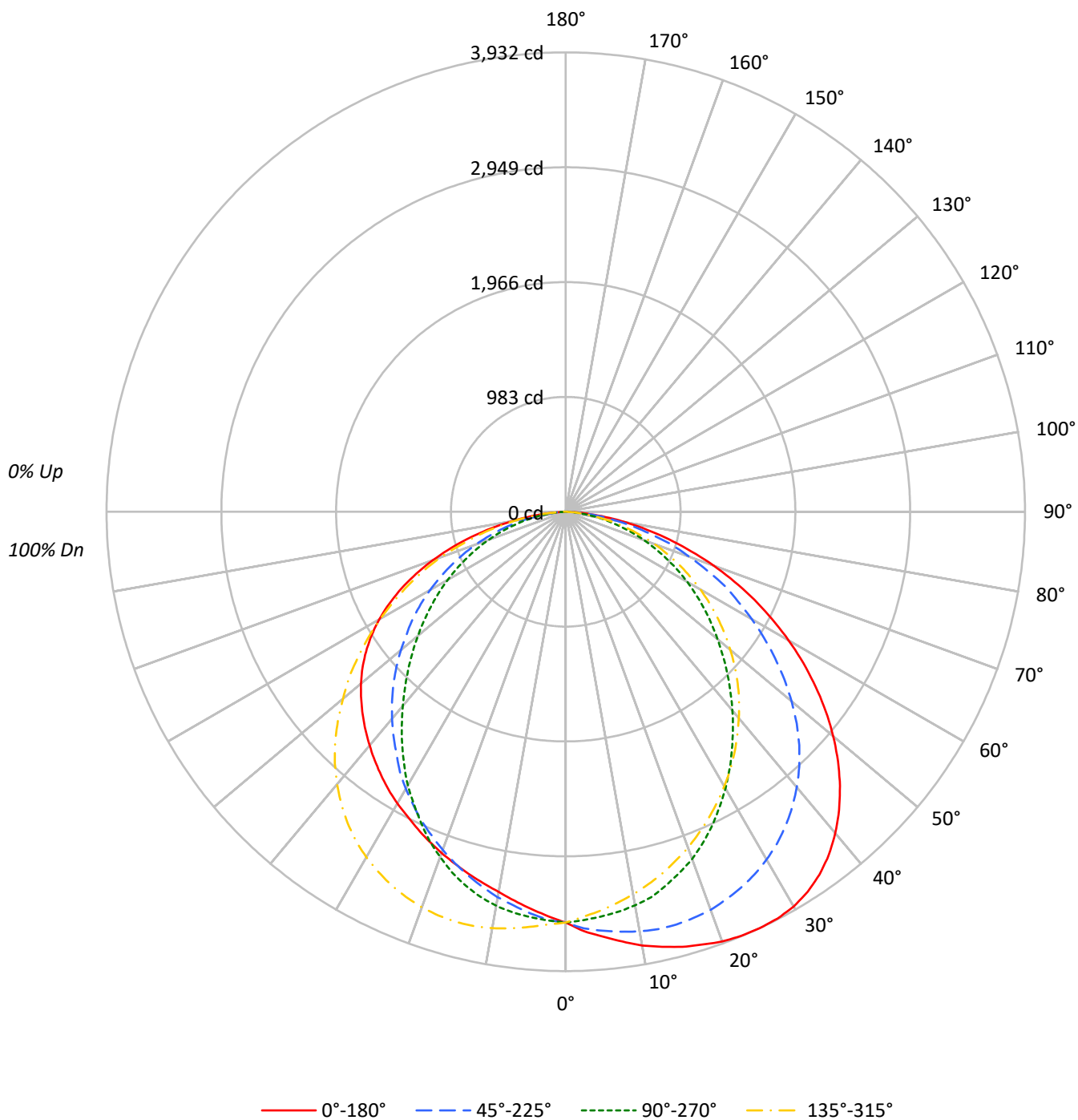
Lumens per Lamp: N/A
Luminaire Lumens: 10315.4 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	4731	4731	4731	4731
5°	4930	4697	4608	4705
10°	5150	4673	4515	4679
15°	5371	4613	4470	4614
20°	5605	4529	4451	4504
25°	5837	4403	4450	4358
30°	6063	4250	4480	4202
35°	6224	4075	4525	4010
40°	6307	3899	4588	3812
45°	6319	3722	4677	3628
50°	6259	3552	4791	3458
55°	6130	3394	4898	3300
60°	5937	3229	4964	3145
65°	5671	3039	4938	2969
70°	5298	2817	4762	2765
75°	4767	2511	4370	2498
80°	4042	2104	3673	2135
85°	2811	1392	2330	1431

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.8	3.2
10°-20°	966.7	9.4
20°-30°	1481.4	14.4
30°-40°	1801.3	17.5
40°-50°	1872.6	18.2
50°-60°	1691.5	16.4
60°-70°	1286.0	12.5
70°-80°	716.9	7.0
80°-90°	165.1	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°	2781.9	27.0
0°-40°	4583.3	44.4
0°-60°	8147.4	79.0
0°-90°	10315.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10315.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3516	3516	3516	3516	3516	
5°	3650	3477	3412	3483	3650	352
15°	3856	3312	3209	3313	3856	1093
25°	3932	2966	2998	2935	3932	1816
35°	3789	2481	2755	2442	3789	2367
45°	3321	1956	2458	1907	3321	2557
55°	2613	1447	2088	1407	2613	2333
65°	1781	955	1551	932	1781	1760
75°	917	483	841	481	917	974
85°	182	90	151	93	182	229
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°	3516.0	3516.0	3516.0	3516.0	3516.0	3516.0	3516.0	3516.0	3516.0	3516.0	3516.0
2.5°	3593.9	3541.4	3542.2	3588.1	3552.9	3570.1	3520.9	3539.8	3534.0	3538.1	3497.9
5°	3650.5	3593.9	3593.1	3632.4	3593.1	3600.4	3538.1	3550.4	3532.4	3520.9	3477.4
7.5°	3710.3	3653.8	3648.0	3682.5	3630.8	3625.0	3556.2	3556.2	3523.3	3494.6	3453.6
10°	3769.4	3711.2	3703.8	3730.0	3666.1	3647.2	3563.5	3550.4	3506.9	3464.3	3420.0
12.5°	3813.7	3754.6	3748.9	3765.3	3693.1	3658.7	3563.5	3538.1	3474.1	3414.3	3379.8
15°	3855.5	3794.8	3779.2	3787.4	3704.6	3658.7	3552.1	3512.7	3430.7	3351.9	3311.8
17.5°	3885.0	3826.8	3811.2	3810.4	3710.3	3644.7	3527.4	3473.3	3374.9	3279.8	3239.6
20°	3914.6	3856.3	3836.6	3821.9	3708.7	3625.9	3491.4	3418.4	3303.5	3196.9	3163.3
22.5°	3929.3	3869.4	3848.1	3826.0	3698.0	3591.4	3447.1	3354.4	3223.2	3096.1	3068.2
25°	3931.8	3870.3	3847.3	3815.3	3676.7	3550.4	3389.7	3277.3	3130.5	2989.4	2965.6
27.5°	3925.2	3858.0	3835.0	3796.5	3644.7	3500.4	3321.6	3189.5	3032.1	2876.3	2850.8
30°	3902.3	3834.2	3812.0	3762.0	3599.6	3438.9	3247.0	3092.0	2923.0	2757.3	2735.2
32.5°	3856.3	3789.9	3771.9	3721.8	3550.4	3367.5	3160.0	2987.0	2802.4	2644.2	2611.3
35°	3789.1	3722.6	3711.2	3658.7	3481.5	3282.2	3064.9	2872.2	2674.5	2512.9	2480.9
37.5°	3701.3	3645.5	3628.3	3576.7	3400.3	3185.4	2955.8	2747.5	2544.1	2370.2	2350.5
40°	3590.6	3538.1	3525.0	3479.1	3306.0	3078.0	2837.7	2618.7	2409.6	2248.0	2220.1
42.5°	3464.3	3415.1	3407.7	3360.1	3189.5	2959.1	2709.8	2485.0	2269.3	2113.5	2085.6
45°	3320.8	3273.2	3271.6	3226.5	3062.4	2827.0	2575.3	2349.7	2132.4	1970.8	1956.0
47.5°	3162.5	3119.8	3119.8	3078.0	2920.5	2681.9	2436.7	2208.7	1994.6	1851.9	1825.6
50°	2990.3	2950.1	2937.8	2917.3	2763.9	2523.6	2290.7	2070.9	1858.5	1722.3	1696.9
52.5°	2806.5	2772.1	2780.3	2742.6	2594.1	2358.7	2143.0	1915.9	1721.5	1597.6	1572.2
55°	2613.0	2563.8	2571.2	2557.2	2417.0	2189.0	1977.4	1787.9	1587.0	1470.5	1446.7
57.5°	2412.1	2348.1	2374.3	2366.1	2228.3	2015.1	1825.6	1642.8	1453.3	1345.9	1322.9
60°	2206.2	2144.7	2171.7	2164.4	2034.8	1841.2	1669.0	1499.2	1320.4	1222.8	1199.9
62.5°	1994.6	1938.0	1962.6	1956.9	1837.9	1663.3	1513.2	1357.3	1186.8	1099.0	1077.7
65°	1781.4	1727.2	1749.4	1745.3	1635.4	1502.5	1353.2	1210.5	1052.2	976.0	954.7
67.5°	1563.2	1513.2	1533.7	1533.7	1432.8	1305.7	1192.5	1062.1	920.2	854.6	834.9
70°	1346.7	1299.9	1318.0	1316.3	1231.0	1127.7	1030.1	913.6	786.5	732.4	716.0
72.5°	1128.5	1087.5	1103.9	1102.3	1030.9	964.5	867.7	766.8	656.1	612.6	597.9
75°	916.9	878.4	894.0	892.3	834.1	771.8	707.0	623.3	528.2	497.8	483.1
77.5°	715.2	675.8	688.9	688.9	646.3	601.2	549.5	484.7	417.5	384.6	374.0
80°	521.6	502.7	496.2	497.0	468.3	438.8	412.5	350.2	301.0	278.8	271.5
82.5°	342.8	327.2	320.7	322.3	305.9	287.9	271.5	228.0	195.2	182.1	178.0
85°	182.1	170.6	164.8	169.0	165.7	155.8	147.6	118.1	97.6	92.7	90.2
87.5°	57.4	50.0	45.9	60.7	51.7	45.9	44.3	35.3	27.1	27.1	26.2
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°	3516.0	3516.0	3516.0	3516.0	3516.0	3516.0	3516.0	3516.0	3516.0	3516.0	3516.0
2.5°	3511.0	3511.0	3479.1	3471.7	3468.4	3472.5	3440.5	3434.8	3480.7	3465.1	3429.9
5°	3483.2	3481.5	3436.4	3428.2	3428.2	3423.3	3387.2	3379.0	3424.9	3411.8	3373.3
7.5°	3448.7	3443.8	3390.5	3384.7	3376.5	3373.3	3333.1	3327.3	3366.7	3358.5	3322.4
10°	3406.9	3402.0	3338.8	3334.7	3325.7	3319.1	3281.4	3277.3	3317.5	3304.4	3275.7
12.5°	3351.9	3342.9	3278.1	3274.0	3266.6	3264.2	3227.3	3225.6	3269.9	3256.8	3226.5
15°	3279.8	3272.4	3200.2	3201.9	3202.7	3202.7	3173.1	3171.5	3215.0	3209.2	3176.4
17.5°	3200.2	3190.4	3121.5	3126.4	3132.1	3138.7	3115.7	3119.8	3165.8	3158.4	3128.9
20°	3110.0	3100.2	3032.9	3046.8	3059.1	3072.3	3057.5	3069.0	3111.6	3108.4	3086.2
22.5°	3009.1	2999.3	2936.9	2958.3	2978.8	3003.4	2996.8	3009.9	3055.0	3054.2	3034.5
25°	2886.1	2888.6	2833.6	2859.8	2894.3	2928.7	2931.2	2952.5	3002.6	2997.6	2979.6
27.5°	2771.3	2774.6	2716.3	2760.6	2806.5	2850.8	2861.5	2891.0	2941.9	2937.8	2922.2
30°	2650.7	2654.8	2598.2	2658.9	2714.7	2768.8	2791.8	2832.0	2883.6	2883.6	2867.2
32.5°	2525.2	2532.6	2473.6	2554.8	2619.5	2682.7	2722.9	2764.7	2823.8	2822.1	2808.2
35°	2396.5	2404.7	2350.5	2453.9	2518.7	2595.8	2645.8	2701.6	2754.1	2754.9	2744.2
37.5°	2265.2	2275.1	2225.9	2339.1	2412.9	2503.9	2567.9	2623.6	2681.9	2685.2	2675.3
40°	2134.8	2145.5	2102.9	2211.9	2305.4	2407.1	2480.9	2546.6	2610.5	2612.2	2605.6
42.5°	2004.4	2015.9	1983.9	2090.6	2196.4	2305.4	2392.4	2467.0	2532.6	2536.7	2529.3
45°	1877.3	1887.2	1864.2	1980.7	2082.4	2201.3	2301.3	2385.8	2452.2	2458.0	2455.5
47.5°	1751.0	1760.0	1739.5	1846.1	1963.4	2089.7	2205.4	2298.9	2369.4	2376.0	2374.3
50°	1627.2	1634.6	1612.4	1723.9	1840.4	1974.9	2095.5	2203.7	2282.5	2289.0	2288.2
52.5°	1504.1	1511.5	1492.7	1609.9	1715.7	1857.6	1988.9	2106.1	2184.0	2193.9	2195.5
55°	1385.2	1388.5	1373.7	1486.1	1588.6	1737.1	1888.0	2002.0	2079.9	2088.1	2093.0
57.5°	1266.3	1267.1	1254.8	1362.3	1460.7	1612.4	1770.7	1890.4	1964.3	1972.5	1979.8
60°	1148.2	1147.4	1133.4	1237.6	1331.9	1482.0	1646.9	1765.8	1837.1	1844.5	1854.4
62.5°	1030.9	1028.5	1016.2	1112.1	1200.7	1349.1	1514.8	1629.6	1697.7	1702.6	1715.7
65°	914.5	912.0	900.5	989.1	1069.5	1211.4	1373.7	1482.8	1544.3	1550.9	1548.4
67.5°	799.6	794.7	785.7	865.3	938.2	1069.5	1225.3	1329.5	1380.3	1386.0	1401.6
70°	684.8	679.1	658.6	743.1	807.0	924.3	1069.5	1162.1	1204.8	1210.5	1208.1
72.5°	571.6	565.9	543.8	621.7	675.8	778.3	907.9	985.0	1021.9	1026.8	1026.8
75°	461.7	458.5	444.5	503.6	548.7	632.3	742.2	806.2	834.9	840.6	839.0
77.5°	355.9	353.5	339.5	390.4	425.7	488.0	576.6	626.6	647.9	654.5	668.4
80°	255.1	254.2	232.1	282.1	297.7	350.2	415.0	453.5	465.0	474.0	483.9
82.5°	163.2	164.0	141.9	184.5	191.1	224.7	264.9	288.7	296.9	304.3	311.7
85°	79.6	82.8	70.5	97.6	98.4	115.6	132.9	141.9	145.2	150.9	157.5
87.5°	20.5	23.8	13.1	27.9	24.6	32.0	36.9	39.4	38.5	42.6	45.1
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	3516.0	3516.0	3516.0	3516.0	3516.0	3516.0	3516.0	3516.0	3516.0	3516.0	3516.0
2.5°	3441.3	3467.6	3454.5	3497.1	3513.5	3487.3	3533.2	3534.0	3501.2	3539.8	3561.1
5°	3388.0	3415.1	3406.9	3451.2	3471.7	3448.7	3504.5	3515.1	3483.2	3526.6	3561.1
7.5°	3333.9	3365.9	3355.2	3400.3	3424.9	3406.9	3466.8	3484.0	3459.4	3506.9	3552.9
10°	3287.1	3314.2	3302.7	3350.3	3371.6	3356.9	3415.9	3447.9	3424.9	3483.2	3538.1
12.5°	3241.2	3263.4	3250.2	3289.6	3310.1	3291.2	3363.4	3392.9	3376.5	3437.2	3507.8
15°	3182.2	3206.8	3188.7	3224.0	3239.6	3223.2	3282.2	3333.1	3312.6	3379.0	3456.9
17.5°	3137.1	3151.0	3126.4	3154.3	3163.3	3141.2	3201.0	3251.1	3236.3	3308.5	3398.7
20°	3087.0	3098.5	3064.1	3079.6	3078.8	3050.9	3105.9	3155.1	3145.3	3224.8	3327.3
22.5°	3031.3	3037.0	2996.8	3000.1	2998.5	2952.5	3001.7	3051.8	3047.7	3128.0	3242.9
25°	2972.2	2973.0	2921.4	2919.7	2901.7	2847.5	2891.0	2947.6	2935.3	3022.2	3142.8
27.5°	2914.0	2905.8	2843.4	2828.7	2800.0	2735.2	2773.7	2824.6	2817.2	2902.5	3036.2
30°	2851.6	2841.0	2764.7	2737.6	2695.8	2621.2	2653.2	2700.7	2704.8	2779.5	2919.7
32.5°	2792.6	2765.5	2681.1	2641.7	2589.2	2502.3	2519.5	2567.9	2574.4	2649.9	2794.2
35°	2716.3	2698.3	2594.1	2526.9	2475.2	2380.1	2398.1	2431.7	2441.6	2515.4	2662.2
37.5°	2644.2	2615.4	2504.7	2422.7	2356.3	2256.2	2261.1	2295.6	2305.4	2380.1	2525.2
40°	2569.5	2528.5	2409.6	2313.6	2237.4	2132.4	2126.6	2162.7	2170.1	2243.1	2374.3
42.5°	2490.0	2440.8	2307.1	2202.1	2114.3	2007.7	1996.2	2027.4	2035.6	2107.0	2235.7
45°	2409.6	2350.5	2202.1	2087.3	1991.3	1882.2	1870.8	1894.5	1906.8	1974.1	2097.9
47.5°	2324.3	2255.4	2093.8	1965.9	1866.7	1757.6	1743.6	1767.4	1777.3	1843.7	1961.0
50°	2234.9	2151.2	1982.3	1841.2	1742.8	1635.4	1614.9	1642.8	1651.8	1714.1	1828.9
52.5°	2136.5	2043.8	1863.4	1715.7	1617.3	1514.8	1490.2	1517.3	1527.9	1588.6	1694.4
55°	2032.3	1932.3	1743.6	1600.1	1493.5	1393.4	1372.9	1383.6	1406.6	1464.0	1562.4
57.5°	1915.0	1815.8	1617.3	1471.3	1368.8	1272.9	1255.6	1265.5	1286.8	1342.6	1431.2
60°	1790.4	1685.4	1488.6	1342.6	1243.3	1152.3	1136.7	1145.7	1168.7	1219.6	1301.6
62.5°	1667.4	1549.3	1355.7	1210.5	1120.3	1035.8	1031.7	1028.5	1049.8	1099.0	1171.2
65°	1518.1	1404.9	1217.1	1079.3	997.3	921.0	904.6	912.0	932.5	977.6	1053.1
67.5°	1358.2	1255.6	1075.2	948.1	875.1	807.0	793.1	796.4	817.7	857.1	922.7
70°	1188.4	1098.2	930.0	816.0	754.5	690.6	681.5	682.4	702.9	737.3	794.7
72.5°	1010.4	929.2	783.2	685.6	634.8	588.9	580.7	570.8	589.7	619.2	668.4
75°	829.2	757.8	637.3	557.7	517.5	479.0	471.6	461.7	480.6	506.0	544.6
77.5°	646.3	588.9	495.4	433.9	402.7	374.0	367.4	356.8	375.6	394.5	424.8
80°	467.5	425.7	369.9	305.1	294.4	275.6	269.0	257.5	275.6	287.9	310.8
82.5°	301.8	273.9	241.9	196.8	195.2	181.3	178.0	164.8	181.3	188.6	205.9
85°	152.5	139.4	131.2	100.1	103.3	94.3	93.5	79.6	92.7	96.0	105.8
87.5°	43.5	45.9	41.0	24.6	31.2	29.5	29.5	21.3	29.5	29.5	33.6
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: P838062

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-3STD-27-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3516.0	3516.0	3516.0	3516.0	3516.0	3516.0	3516.0	3516.0
2.5°	3519.2	3533.2	3536.5	3535.7	3544.7	3593.9	3577.5	3593.9
5°	3527.4	3558.6	3566.8	3578.3	3593.1	3648.8	3630.8	3650.5
7.5°	3532.4	3579.1	3597.2	3619.3	3643.1	3705.4	3690.7	3710.3
10°	3532.4	3593.1	3619.3	3656.2	3688.2	3760.4	3746.4	3769.4
12.5°	3517.6	3595.5	3632.4	3684.1	3725.1	3803.0	3797.3	3813.7
15°	3487.3	3583.2	3634.1	3700.5	3751.3	3838.3	3835.8	3855.5
17.5°	3446.3	3561.9	3623.4	3707.1	3771.0	3868.6	3874.4	3885.0
20°	3394.6	3521.7	3602.1	3704.6	3785.0	3892.4	3899.8	3914.6
22.5°	3326.5	3473.3	3570.1	3693.9	3786.6	3902.3	3915.4	3929.3
25°	3246.1	3415.1	3528.3	3673.4	3778.4	3901.4	3919.5	3931.8
27.5°	3154.3	3339.6	3475.0	3640.6	3755.4	3888.3	3910.5	3925.2
30°	3047.7	3259.3	3414.3	3598.0	3724.3	3863.7	3887.5	3902.3
32.5°	2937.8	3170.7	3342.1	3543.0	3679.2	3824.3	3844.8	3856.3
35°	2818.0	3063.2	3255.2	3472.5	3620.9	3761.2	3776.8	3789.1
37.5°	2687.6	2946.8	3155.9	3392.9	3538.9	3673.4	3687.4	3701.3
40°	2553.1	2824.6	3044.4	3295.3	3441.3	3566.0	3580.8	3590.6
42.5°	2417.8	2689.3	2925.5	3180.5	3325.7	3445.4	3454.5	3464.3
45°	2280.8	2549.0	2791.8	3053.4	3196.9	3309.3	3312.6	3320.8
47.5°	2141.4	2403.8	2645.0	2908.2	3050.1	3152.6	3155.9	3162.5
50°	2001.2	2258.7	2488.3	2751.6	2890.2	2998.5	2983.7	2990.3
52.5°	1863.4	2106.1	2340.7	2582.6	2719.6	2815.6	2819.7	2806.5
55°	1728.0	1956.9	2172.6	2405.5	2535.9	2610.5	2608.1	2613.0
57.5°	1591.1	1806.0	2003.6	2216.9	2344.0	2414.5	2429.3	2412.1
60°	1451.7	1653.4	1830.6	2023.3	2146.3	2205.4	2222.6	2206.2
62.5°	1313.1	1498.4	1659.2	1827.3	1941.3	2014.3	2012.6	1994.6
65°	1174.4	1342.6	1486.1	1628.8	1728.0	1801.0	1797.8	1781.4
67.5°	1046.5	1185.1	1313.9	1429.5	1515.6	1565.7	1582.9	1563.2
70°	905.4	1025.2	1138.4	1231.0	1302.4	1347.5	1363.9	1346.7
72.5°	764.4	866.1	945.6	1035.0	1090.0	1127.7	1144.9	1128.5
75°	625.0	708.6	773.4	843.1	881.7	913.6	933.3	916.9
77.5°	489.6	554.4	606.1	656.9	701.2	708.6	725.8	715.2
80°	360.9	407.6	445.3	479.0	511.0	514.2	528.2	521.6
82.5°	240.3	271.5	281.3	316.6	337.1	333.8	347.7	342.8
85°	127.1	146.0	163.2	173.9	185.4	174.7	187.0	182.1
87.5°	42.6	45.1	39.4	55.8	61.5	52.5	59.9	57.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)