

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: P837925

Luminaire Tested: **ORLG-24-2-INS-ASY2R-LD4-5HI-50-120-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: P837925
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-LD4-5HI-50-120-EDD
Description: 2FT x 2FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and RFI grid
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

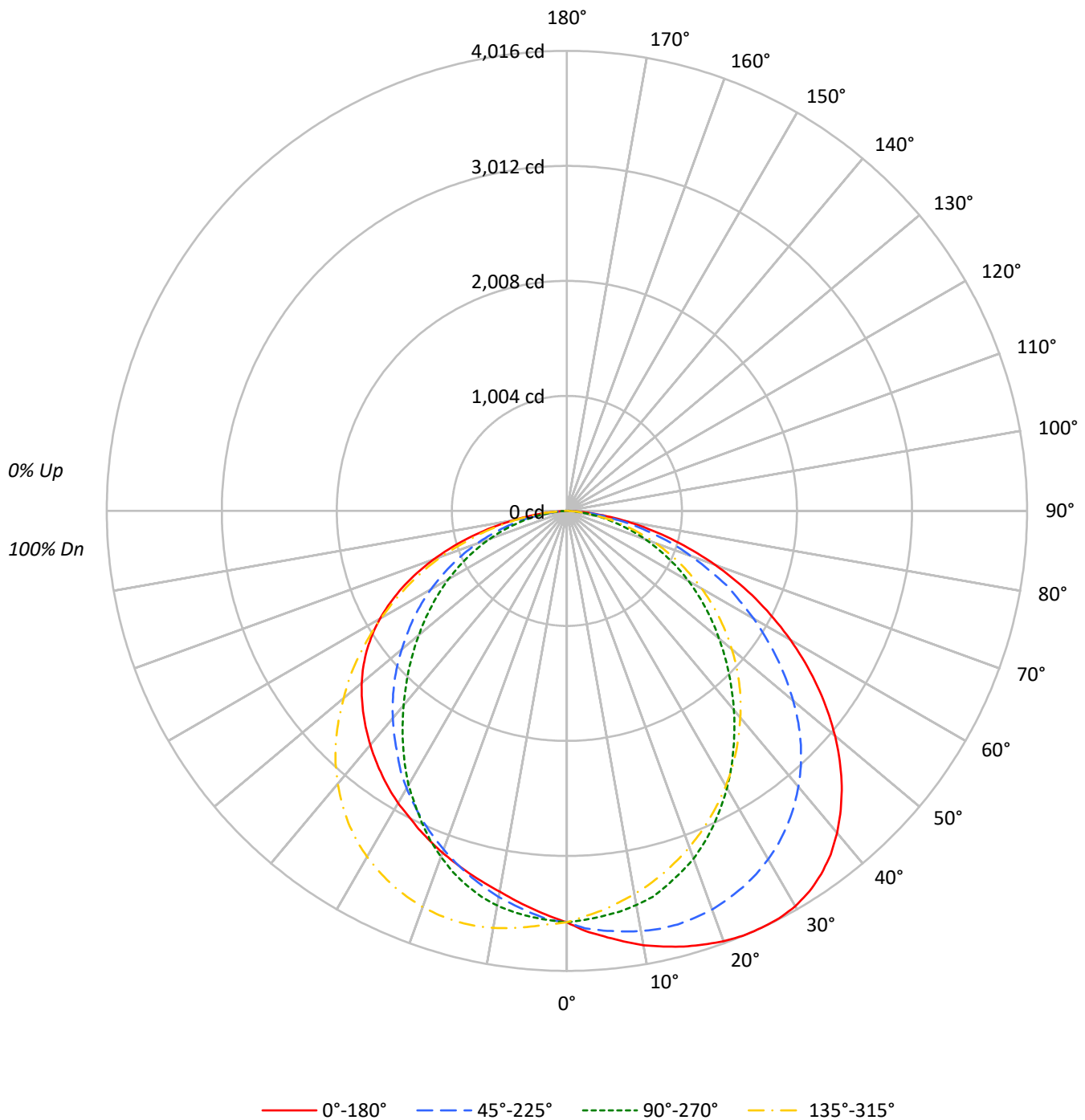
Lumens per Lamp: N/A
Luminaire Lumens: 10537.2 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 110
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°	9665	9665	9665	9665
5°	10073	9595	9414	9611
10°	10521	9546	9223	9560
15°	10972	9425	9133	9427
20°	11451	9253	9093	9201
25°	11925	8995	9092	8903
30°	12386	8682	9153	8585
35°	12715	8325	9245	8193
40°	12884	7967	9373	7787
45°	12909	7604	9555	7413
50°	12788	7257	9789	7064
55°	12523	6934	10007	6741
60°	12129	6597	10141	6425
65°	11587	6209	10088	6066
70°	10823	5755	9729	5649
75°	9738	5131	8928	5104
80°	8257	4297	7504	4362
85°	5743	2847	4761	2924

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.0	3.2
10°-20°	987.4	9.4
20°-30°	1513.3	14.4
30°-40°	1840.1	17.5
40°-50°	1912.9	18.2
50°-60°	1727.9	16.4
60°-70°	1313.7	12.5
70°-80°	732.3	7.0
80°-90°	168.6	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°	2841.7	27.0
0°-40°	4681.8	44.4
0°-60°	8322.6	79.0
0°-90°	10537.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10537.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3592	3592	3592	3592	3592	
5°	3729	3552	3485	3558	3729	360
15°	3938	3383	3278	3384	3938	1117
25°	4016	3029	3062	2998	4016	1855
35°	3871	2534	2814	2494	3871	2417
45°	3392	1998	2511	1948	3392	2612
55°	2669	1478	2133	1437	2669	2383
65°	1820	975	1584	953	1820	1798
75°	937	494	859	491	937	995
85°	186	92	154	95	186	234
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°	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6
2.5°	3671.2	3617.6	3618.4	3665.3	3629.3	3646.9	3596.6	3615.9	3610.0	3614.2	3573.2
5°	3729.0	3671.2	3670.3	3710.5	3670.3	3677.9	3614.2	3626.8	3608.3	3596.6	3552.2
7.5°	3790.1	3732.3	3726.5	3761.7	3708.9	3703.0	3632.6	3632.6	3599.1	3569.8	3527.9
10°	3850.5	3791.0	3783.4	3810.2	3744.9	3725.6	3640.2	3626.8	3582.4	3538.8	3493.6
12.5°	3895.7	3835.4	3829.5	3846.3	3772.5	3737.4	3640.2	3614.2	3548.9	3487.7	3452.5
15°	3938.4	3876.4	3860.5	3868.9	3784.3	3737.4	3628.4	3588.2	3504.5	3424.0	3383.0
17.5°	3968.6	3909.1	3893.2	3892.3	3790.1	3723.1	3603.3	3548.0	3447.5	3350.3	3309.2
20°	3998.7	3939.3	3919.2	3904.1	3788.5	3703.8	3566.4	3491.9	3374.6	3265.7	3231.3
22.5°	4013.8	3952.7	3930.9	3908.3	3777.6	3668.7	3521.2	3426.5	3292.5	3162.6	3134.2
25°	4016.3	3953.5	3930.0	3897.4	3755.8	3626.8	3462.6	3347.8	3197.8	3053.7	3029.4
27.5°	4009.6	3940.9	3917.5	3878.1	3723.1	3575.7	3393.0	3258.1	3097.3	2938.1	2912.1
30°	3986.2	3916.6	3894.0	3842.9	3677.0	3512.8	3316.8	3158.4	2985.9	2816.6	2794.0
32.5°	3939.3	3871.4	3853.0	3801.9	3626.8	3439.9	3228.0	3051.2	2862.7	2701.0	2667.5
35°	3870.6	3802.7	3791.0	3737.4	3556.4	3352.8	3130.8	2933.9	2732.0	2567.0	2534.3
37.5°	3780.9	3724.0	3706.4	3653.6	3473.5	3254.0	3019.4	2806.6	2598.8	2421.2	2401.1
40°	3667.8	3614.2	3600.8	3553.9	3377.1	3144.2	2898.7	2675.0	2461.4	2296.4	2267.9
42.5°	3538.8	3488.5	3481.0	3432.4	3258.1	3022.7	2768.0	2538.5	2318.1	2159.0	2130.5
45°	3392.2	3343.6	3341.9	3295.8	3128.3	2887.8	2630.6	2400.3	2178.2	2013.2	1998.1
47.5°	3230.5	3186.9	3186.9	3144.2	2983.4	2739.6	2489.1	2256.2	2037.5	1891.7	1864.9
50°	3054.6	3013.5	3000.9	2980.0	2823.3	2577.9	2339.9	2115.4	1898.4	1759.3	1733.4
52.5°	2866.9	2831.7	2840.1	2801.6	2649.9	2409.5	2189.1	1957.1	1758.5	1632.0	1606.0
55°	2669.2	2618.9	2626.5	2612.2	2469.0	2236.0	2019.9	1826.4	1621.1	1502.1	1477.9
57.5°	2463.9	2398.6	2425.4	2417.0	2276.3	2058.4	1864.9	1678.1	1484.6	1374.8	1351.3
60°	2253.6	2190.8	2218.5	2210.9	2078.5	1880.8	1704.9	1531.5	1348.8	1249.1	1225.7
62.5°	2037.5	1979.7	2004.8	1999.0	1877.5	1699.0	1545.7	1386.5	1212.3	1122.6	1100.8
65°	1819.7	1764.4	1787.0	1782.8	1670.5	1534.8	1382.3	1236.6	1074.9	997.0	975.2
67.5°	1596.8	1545.7	1566.7	1566.7	1463.6	1333.8	1218.1	1084.9	940.0	873.0	852.9
70°	1375.6	1327.9	1346.3	1344.6	1257.5	1152.0	1052.3	933.3	803.4	748.1	731.4
72.5°	1152.8	1110.9	1127.7	1126.0	1053.1	985.2	886.4	783.3	670.2	625.8	610.7
75°	936.6	897.3	913.2	911.5	852.0	788.4	722.2	636.7	539.5	508.5	493.5
77.5°	730.5	690.3	703.7	703.7	660.2	614.1	561.3	495.1	426.4	392.9	382.0
80°	532.8	513.6	506.9	507.7	478.4	448.2	421.4	357.7	307.5	284.8	277.3
82.5°	350.2	334.3	327.6	329.2	312.5	294.1	277.3	232.9	199.4	186.0	181.8
85°	186.0	174.3	168.4	172.6	169.2	159.2	150.8	120.6	99.7	94.7	92.2
87.5°	58.6	51.1	46.9	62.0	52.8	46.9	45.2	36.0	27.6	27.6	26.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6
2.5°	3586.6	3586.6	3553.9	3546.3	3543.0	3547.2	3514.5	3508.6	3555.6	3539.6	3503.6
5°	3558.1	3556.4	3510.3	3501.9	3501.9	3496.9	3460.1	3451.7	3498.6	3485.2	3445.8
7.5°	3522.9	3517.9	3463.4	3457.5	3449.2	3445.8	3404.8	3398.9	3439.1	3430.7	3393.9
10°	3480.2	3475.1	3410.6	3406.4	3397.2	3390.5	3352.0	3347.8	3388.8	3375.4	3346.1
12.5°	3424.0	3414.8	3348.6	3344.4	3336.9	3334.4	3296.7	3295.0	3340.2	3326.8	3295.8
15°	3350.3	3342.8	3269.0	3270.7	3271.5	3271.5	3241.4	3239.7	3284.1	3278.3	3244.7
17.5°	3269.0	3259.0	3188.6	3193.6	3199.5	3206.2	3182.7	3186.9	3233.8	3226.3	3196.1
20°	3176.9	3166.8	3098.1	3112.4	3124.9	3138.3	3123.3	3135.0	3178.6	3175.2	3152.6
22.5°	3073.8	3063.8	3000.1	3021.9	3042.8	3068.0	3061.3	3074.7	3120.7	3119.9	3099.8
25°	2948.2	2950.7	2894.5	2921.4	2956.5	2991.7	2994.2	3016.0	3067.1	3062.1	3043.7
27.5°	2830.9	2834.2	2774.7	2820.0	2866.9	2912.1	2923.0	2953.2	3005.1	3000.9	2985.0
30°	2707.7	2711.9	2654.1	2716.1	2773.1	2828.4	2851.8	2892.9	2945.7	2945.7	2928.9
32.5°	2579.5	2587.1	2526.8	2609.7	2675.9	2740.4	2781.4	2824.2	2884.5	2882.8	2868.6
35°	2448.0	2456.4	2401.1	2506.7	2572.8	2651.6	2702.7	2759.7	2813.3	2814.1	2803.2
37.5°	2314.0	2324.0	2273.7	2389.4	2464.8	2557.8	2623.1	2680.1	2739.6	2742.9	2732.9
40°	2180.8	2191.6	2148.1	2259.5	2355.0	2458.9	2534.3	2601.3	2666.7	2668.3	2661.6
42.5°	2047.5	2059.3	2026.6	2135.5	2243.6	2355.0	2443.8	2520.1	2587.1	2591.3	2583.7
45°	1917.7	1927.7	1904.3	2023.2	2127.1	2248.6	2350.8	2437.1	2505.0	2510.8	2508.3
47.5°	1788.7	1797.9	1776.9	1885.9	2005.7	2134.7	2252.8	2348.3	2420.4	2427.1	2425.4
50°	1662.2	1669.7	1647.1	1761.0	1880.0	2017.4	2140.5	2251.1	2331.6	2338.3	2337.4
52.5°	1536.5	1544.0	1524.8	1644.6	1752.6	1897.6	2031.6	2151.4	2231.0	2241.1	2242.7
55°	1415.0	1418.4	1403.3	1518.1	1622.8	1774.4	1928.6	2045.0	2124.6	2133.0	2138.0
57.5°	1293.5	1294.4	1281.8	1391.6	1492.1	1647.1	1808.8	1931.1	2006.5	2014.9	2022.4
60°	1172.9	1172.1	1157.8	1264.2	1360.6	1513.9	1682.3	1803.8	1876.6	1884.2	1894.2
62.5°	1053.1	1050.6	1038.0	1136.0	1226.5	1378.2	1547.4	1664.7	1734.2	1739.2	1752.6
65°	934.1	931.6	919.9	1010.4	1092.5	1237.4	1403.3	1514.7	1577.5	1584.3	1581.7
67.5°	816.8	811.8	802.6	883.9	958.4	1092.5	1251.7	1358.0	1410.0	1415.9	1431.8
70°	699.6	693.7	672.7	759.0	824.4	944.2	1092.5	1187.1	1230.7	1236.6	1234.1
72.5°	583.9	578.1	555.5	635.0	690.3	795.1	927.4	1006.2	1043.9	1048.9	1048.9
75°	471.7	468.3	454.1	514.4	560.5	645.9	758.2	823.5	852.9	858.7	857.1
77.5°	363.6	361.1	346.8	398.8	434.8	498.5	589.0	640.1	661.8	668.6	682.8
80°	260.6	259.7	237.1	288.2	304.1	357.7	423.9	463.3	475.0	484.2	494.3
82.5°	166.7	167.6	144.9	188.5	195.2	229.6	270.6	294.9	303.3	310.8	318.4
85°	81.3	84.6	72.0	99.7	100.5	118.1	135.7	144.9	148.3	154.2	160.9
87.5°	20.9	24.3	13.4	28.5	25.1	32.7	37.7	40.2	39.4	43.6	46.1
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°	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6
2.5°	3515.3	3542.2	3528.7	3572.3	3589.1	3562.3	3609.2	3610.0	3576.5	3615.9	3637.7
5°	3460.9	3488.5	3480.2	3525.4	3546.3	3522.9	3579.9	3590.7	3558.1	3602.5	3637.7
7.5°	3405.6	3438.3	3427.4	3473.5	3498.6	3480.2	3541.3	3558.9	3533.8	3582.4	3629.3
10°	3357.8	3385.5	3373.8	3422.3	3444.1	3429.1	3489.4	3522.0	3498.6	3558.1	3614.2
12.5°	3310.9	3333.5	3320.1	3360.4	3381.3	3362.0	3435.8	3465.9	3449.2	3511.2	3583.2
15°	3250.6	3275.7	3257.3	3293.3	3309.2	3292.5	3352.8	3404.8	3383.8	3451.7	3531.3
17.5°	3204.5	3218.8	3193.6	3222.1	3231.3	3208.7	3269.9	3321.0	3305.9	3379.6	3471.8
20°	3153.4	3165.2	3130.0	3145.9	3145.0	3116.6	3172.7	3223.0	3212.9	3294.2	3398.9
22.5°	3096.5	3102.3	3061.3	3064.6	3062.9	3016.0	3066.3	3117.4	3113.2	3195.3	3312.6
25°	3036.1	3037.0	2984.2	2982.5	2964.1	2908.8	2953.2	3011.0	2998.4	3087.2	3210.4
27.5°	2976.6	2968.3	2904.6	2889.5	2860.2	2794.0	2833.4	2885.3	2877.8	2964.9	3101.5
30°	2913.0	2902.1	2824.2	2796.5	2753.8	2677.6	2710.2	2758.8	2763.0	2839.3	2982.5
32.5°	2852.7	2825.0	2738.7	2698.5	2644.9	2556.1	2573.7	2623.1	2629.8	2706.9	2854.3
35°	2774.7	2756.3	2649.9	2581.2	2528.4	2431.3	2449.7	2484.0	2494.1	2569.5	2719.4
37.5°	2701.0	2671.7	2558.6	2474.8	2407.0	2304.7	2309.8	2345.0	2355.0	2431.3	2579.5
40°	2624.8	2582.9	2461.4	2363.4	2285.5	2178.2	2172.4	2209.2	2216.8	2291.3	2425.4
42.5°	2543.5	2493.2	2356.7	2249.5	2159.8	2050.9	2039.2	2071.0	2079.4	2152.3	2283.8
45°	2461.4	2401.1	2249.5	2132.2	2034.1	1922.7	1911.0	1935.3	1947.8	2016.5	2143.1
47.5°	2374.3	2303.9	2138.9	2008.2	1906.8	1795.4	1781.1	1805.4	1815.5	1883.3	2003.1
50°	2283.0	2197.5	2024.9	1880.8	1780.3	1670.5	1649.6	1678.1	1687.3	1751.0	1868.3
52.5°	2182.4	2087.8	1903.4	1752.6	1652.1	1547.4	1522.3	1549.9	1560.8	1622.8	1730.9
55°	2076.0	1973.8	1781.1	1634.5	1525.6	1423.4	1402.5	1413.3	1436.8	1495.4	1596.0
57.5°	1956.2	1854.9	1652.1	1503.0	1398.3	1300.2	1282.6	1292.7	1314.5	1371.5	1461.9
60°	1828.9	1721.6	1520.6	1371.5	1270.1	1177.1	1161.2	1170.4	1193.8	1245.8	1329.6
62.5°	1703.2	1582.6	1384.9	1236.6	1144.4	1058.1	1053.9	1050.6	1072.4	1122.6	1196.4
65°	1550.7	1435.1	1243.3	1102.5	1018.7	940.8	924.1	931.6	952.6	998.6	1075.7
67.5°	1387.4	1282.6	1098.3	968.5	893.9	824.4	810.1	813.5	835.3	875.5	942.5
70°	1213.9	1121.8	950.0	833.6	770.8	705.4	696.2	697.0	718.0	753.2	811.8
72.5°	1032.2	949.2	800.1	700.4	648.4	601.5	593.2	583.1	602.4	632.5	682.8
75°	847.0	774.1	651.0	569.7	528.6	489.3	481.7	471.7	490.9	516.9	556.3
77.5°	660.2	601.5	506.0	443.2	411.4	382.0	375.3	364.4	383.7	403.0	434.0
80°	477.5	434.8	377.8	311.7	300.8	281.5	274.8	263.1	281.5	294.1	317.5
82.5°	308.3	279.8	247.1	201.1	199.4	185.2	181.8	168.4	185.2	192.7	210.3
85°	155.8	142.4	134.0	102.2	105.6	96.3	95.5	81.3	94.7	98.0	108.1
87.5°	44.4	46.9	41.9	25.1	31.8	30.2	30.2	21.8	30.2	30.2	34.3
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: P837925

CATALOG NUMBER: ORLG-24-2-INS-ASY2R-LD4-5HI-50-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6	3591.6
2.5°	3594.9	3609.2	3612.5	3611.7	3620.9	3671.2	3654.4	3671.2
5°	3603.3	3635.1	3643.5	3655.3	3670.3	3727.3	3708.9	3729.0
7.5°	3608.3	3656.1	3674.5	3697.1	3721.4	3785.1	3770.0	3790.1
10°	3608.3	3670.3	3697.1	3734.8	3767.5	3841.2	3827.0	3850.5
12.5°	3593.3	3672.8	3710.5	3763.3	3805.2	3884.8	3878.9	3895.7
15°	3562.3	3660.3	3712.2	3780.1	3832.0	3920.8	3918.3	3938.4
17.5°	3520.4	3638.5	3701.3	3786.8	3852.1	3951.8	3957.7	3968.6
20°	3467.6	3597.4	3679.5	3784.3	3866.4	3976.1	3983.7	3998.7
22.5°	3398.1	3548.0	3646.9	3773.4	3868.1	3986.2	3999.6	4013.8
25°	3316.0	3488.5	3604.1	3752.4	3859.7	3985.3	4003.8	4016.3
27.5°	3222.1	3411.5	3549.7	3718.9	3836.2	3971.9	3994.6	4009.6
30°	3113.2	3329.4	3487.7	3675.4	3804.4	3946.8	3971.1	3986.2
32.5°	3000.9	3238.9	3414.0	3619.2	3758.3	3906.6	3927.5	3939.3
35°	2878.6	3129.1	3325.2	3547.2	3698.8	3842.1	3858.0	3870.6
37.5°	2745.4	3010.2	3223.8	3465.9	3615.0	3752.4	3766.7	3780.9
40°	2608.0	2885.3	3109.9	3366.2	3515.3	3642.7	3657.8	3667.8
42.5°	2469.8	2747.1	2988.4	3248.9	3397.2	3519.5	3528.7	3538.8
45°	2329.9	2603.8	2851.8	3119.1	3265.7	3380.5	3383.8	3392.2
47.5°	2187.5	2455.5	2701.9	2970.8	3115.7	3220.4	3223.8	3230.5
50°	2044.2	2307.3	2541.8	2810.8	2952.4	3062.9	3047.9	3054.6
52.5°	1903.4	2151.4	2391.0	2638.2	2778.1	2876.1	2880.3	2866.9
55°	1765.2	1999.0	2219.3	2457.2	2590.4	2666.7	2664.2	2669.2
57.5°	1625.3	1844.8	2046.7	2264.5	2394.4	2466.4	2481.5	2463.9
60°	1482.9	1689.0	1869.9	2066.8	2192.5	2252.8	2270.4	2253.6
62.5°	1341.3	1530.6	1694.8	1866.6	1983.0	2057.6	2055.9	2037.5
65°	1199.7	1371.5	1518.1	1663.8	1765.2	1839.8	1836.4	1819.7
67.5°	1069.0	1210.6	1342.1	1460.3	1548.2	1599.3	1616.9	1596.8
70°	924.9	1047.2	1162.8	1257.5	1330.4	1376.5	1393.2	1375.6
72.5°	780.8	884.7	966.0	1057.3	1113.4	1152.0	1169.5	1152.8
75°	638.4	723.8	790.0	861.2	900.6	933.3	953.4	936.6
77.5°	500.2	566.3	619.1	671.1	716.3	723.8	741.4	730.5
80°	368.6	416.4	454.9	489.3	521.9	525.3	539.5	532.8
82.5°	245.5	277.3	287.4	323.4	344.3	341.0	355.2	350.2
85°	129.9	149.1	166.7	177.6	189.3	178.4	191.0	186.0
87.5°	43.6	46.1	40.2	57.0	62.8	53.6	61.2	58.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)