

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: P838193

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-5LO-30-120-EDD-90**

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: P838193
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-LD4-5LO-30-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

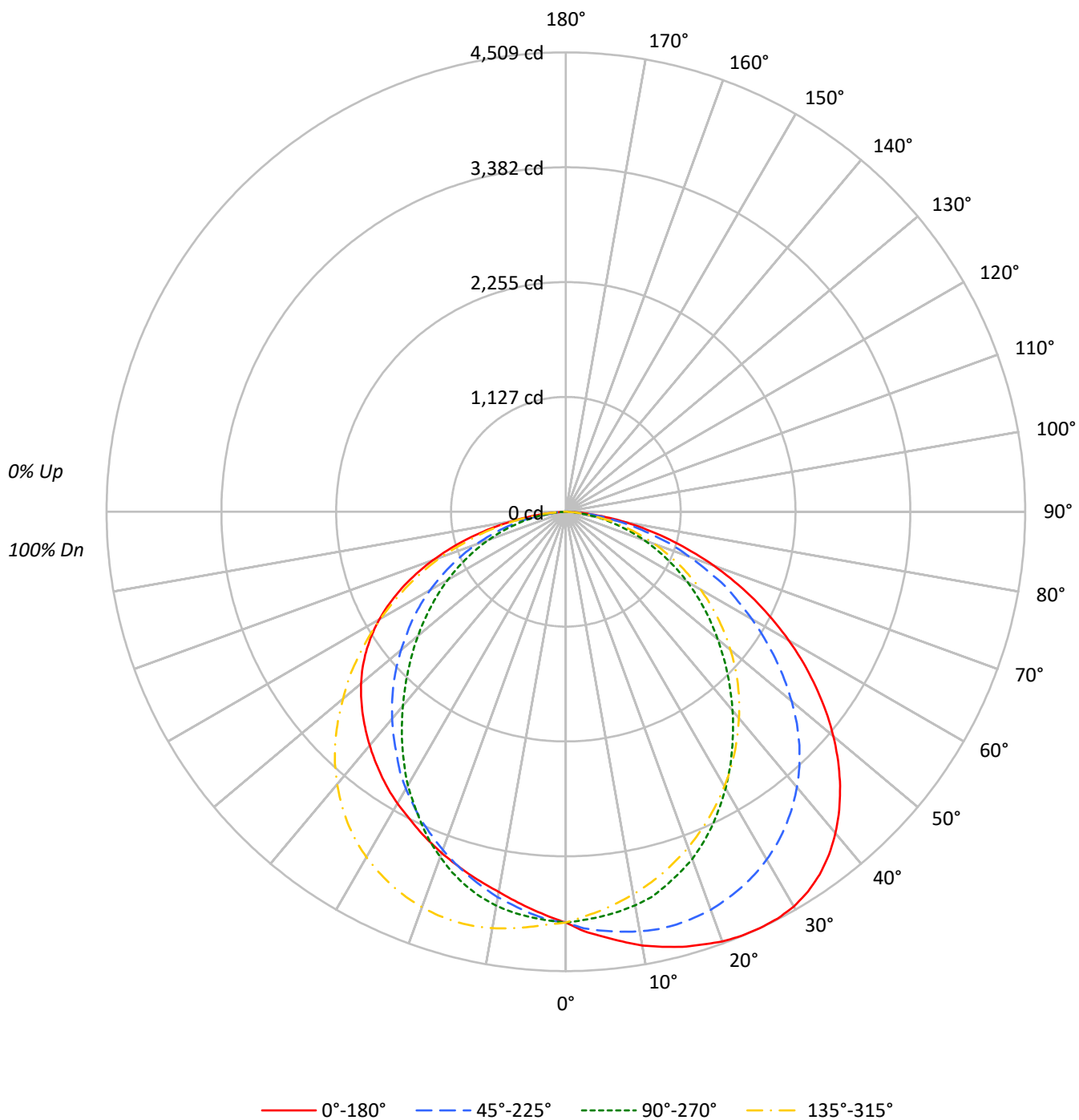
Lumens per Lamp: N/A
Luminaire Lumens: 11828.7 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 117
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
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°	5425	5425	5425	5425
5°	5654	5386	5284	5395
10°	5905	5358	5177	5366
15°	6158	5290	5126	5291
20°	6427	5194	5104	5164
25°	6693	5049	5103	4997
30°	6952	4873	5137	4819
35°	7137	4673	5189	4599
40°	7232	4471	5261	4371
45°	7246	4268	5363	4161
50°	7177	4073	5494	3965
55°	7029	3892	5617	3784
60°	6808	3703	5692	3606
65°	6503	3485	5662	3404
70°	6075	3230	5461	3171
75°	5466	2879	5011	2865
80°	4634	2412	4212	2448
85°	3223	1598	2671	1641

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.8	3.2
10°-20°	1108.5	9.4
20°-30°	1698.8	14.4
30°-40°	2065.6	17.5
40°-50°	2147.3	18.2
50°-60°	1939.7	16.4
60°-70°	1474.7	12.5
70°-80°	822.1	7.0
80°-90°	189.3	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°	3190.0	27.0
0°-40°	5255.7	44.4
0°-60°	9342.7	79.0
0°-90°	11828.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11828.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4032	4032	4032	4032	4032	
5°	4186	3988	3912	3994	4186	404
15°	4421	3798	3680	3798	4421	1254
25°	4509	3401	3437	3366	4509	2082
35°	4345	2845	3159	2800	4345	2714
45°	3808	2243	2819	2187	3808	2932
55°	2996	1659	2394	1613	2996	2675
65°	2043	1095	1778	1069	2043	2019
75°	1051	554	964	551	1051	1117
85°	209	104	173	106	209	263
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°	4031.8	4031.8	4031.8	4031.8	4031.8	4031.8	4031.8	4031.8	4031.8	4031.8	4031.8
2.5°	4121.1	4060.9	4061.9	4114.5	4074.1	4093.9	4037.4	4059.1	4052.5	4057.2	4011.1
5°	4186.0	4121.1	4120.2	4165.3	4120.2	4128.7	4057.2	4071.3	4050.6	4037.4	3987.6
7.5°	4254.7	4189.8	4183.2	4222.7	4163.4	4156.9	4077.9	4077.9	4040.2	4007.3	3960.3
10°	4322.4	4255.6	4247.1	4277.2	4203.9	4182.3	4086.3	4071.3	4021.4	3972.5	3921.7
12.5°	4373.2	4305.5	4298.9	4317.7	4234.9	4195.4	4086.3	4057.2	3983.8	3915.2	3875.7
15°	4421.1	4351.5	4333.7	4343.1	4248.1	4195.4	4073.2	4028.0	3934.0	3843.7	3797.6
17.5°	4455.0	4388.2	4370.4	4369.4	4254.7	4179.4	4044.9	3982.9	3870.0	3760.9	3714.8
20°	4488.8	4422.1	4399.5	4382.6	4252.8	4157.8	4003.6	3919.9	3788.2	3665.9	3627.4
22.5°	4505.8	4437.1	4412.7	4387.3	4240.6	4118.3	3952.8	3846.5	3696.0	3550.3	3518.3
25°	4508.6	4438.1	4411.7	4375.1	4216.1	4071.3	3887.0	3758.1	3589.8	3428.0	3400.7
27.5°	4501.1	4424.0	4397.6	4353.4	4179.4	4013.9	3808.9	3657.5	3476.9	3298.2	3269.1
30°	4474.7	4396.7	4371.3	4313.9	4127.7	3943.4	3723.3	3545.6	3351.8	3161.9	3136.5
32.5°	4422.1	4345.9	4325.2	4267.8	4071.3	3861.6	3623.6	3425.2	3213.6	3032.1	2994.4
35°	4345.0	4268.8	4255.6	4195.4	3992.3	3763.7	3514.5	3293.5	3066.9	2881.6	2844.9
37.5°	4244.3	4180.4	4160.6	4101.4	3899.2	3652.8	3389.4	3150.6	2917.3	2718.0	2695.4
40°	4117.4	4057.2	4042.1	3989.5	3791.0	3529.6	3254.0	3002.9	2763.1	2577.8	2545.8
42.5°	3972.5	3916.1	3907.6	3853.1	3657.5	3393.2	3107.3	2849.6	2602.3	2423.6	2391.6
45°	3808.0	3753.4	3751.5	3699.8	3511.7	3241.8	2953.1	2694.4	2445.2	2259.9	2243.0
47.5°	3626.4	3577.5	3577.5	3529.6	3349.0	3075.3	2794.1	2532.7	2287.2	2123.6	2093.5
50°	3428.9	3382.9	3368.8	3345.2	3169.4	2893.8	2626.7	2374.7	2131.1	1975.0	1945.8
52.5°	3218.3	3178.8	3188.2	3144.9	2974.7	2704.8	2457.4	2196.9	1974.0	1832.0	1802.9
55°	2996.3	2939.9	2948.4	2932.4	2771.6	2510.1	2267.5	2050.2	1819.8	1686.3	1659.0
57.5°	2765.9	2692.6	2722.7	2713.2	2555.2	2310.7	2093.5	1883.8	1666.5	1543.3	1517.0
60°	2529.9	2459.3	2490.4	2481.9	2333.3	2111.3	1913.9	1719.2	1514.2	1402.2	1375.9
62.5°	2287.2	2222.3	2250.5	2244.0	2107.6	1907.3	1735.2	1556.5	1360.9	1260.2	1235.8
65°	2042.7	1980.6	2006.0	2001.3	1875.3	1722.9	1551.8	1388.1	1206.6	1119.2	1094.7
67.5°	1792.5	1735.2	1758.7	1758.7	1643.0	1497.2	1367.4	1217.9	1055.2	980.0	957.4
70°	1544.2	1490.6	1511.3	1509.4	1411.6	1293.1	1181.2	1047.7	901.9	839.8	821.0
72.5°	1294.1	1247.1	1265.9	1264.0	1182.2	1106.0	995.0	879.3	752.4	702.5	685.6
75°	1051.4	1007.2	1025.1	1023.2	956.5	885.0	810.7	714.8	605.7	570.9	553.9
77.5°	820.1	774.9	790.0	790.0	741.1	689.4	630.1	555.8	478.7	441.1	428.9
80°	598.1	576.5	569.0	569.9	537.0	503.1	473.1	401.6	345.2	319.8	311.3
82.5°	393.1	375.2	367.7	369.6	350.8	330.1	311.3	261.4	223.8	208.8	204.1
85°	208.8	195.6	189.0	193.7	190.0	178.7	169.3	135.4	111.9	106.3	103.5
87.5°	65.8	57.4	52.7	69.6	59.2	52.7	50.8	40.4	31.0	31.0	30.1
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°	4031.8	4031.8	4031.8	4031.8	4031.8	4031.8	4031.8	4031.8	4031.8	4031.8	4031.8
2.5°	4026.1	4026.1	3989.5	3981.0	3977.2	3981.9	3945.3	3938.7	3991.3	3973.5	3933.0
5°	3994.2	3992.3	3940.6	3931.2	3931.2	3925.5	3884.1	3874.7	3927.4	3912.3	3868.1
7.5°	3954.7	3949.0	3887.9	3881.3	3871.9	3868.1	3822.1	3815.5	3860.6	3851.2	3809.8
10°	3906.7	3901.1	3828.6	3823.9	3813.6	3806.1	3762.8	3758.1	3804.2	3789.1	3756.2
12.5°	3843.7	3833.3	3759.0	3754.3	3745.9	3743.1	3700.7	3698.9	3749.6	3734.6	3699.8
15°	3760.9	3752.5	3669.7	3671.6	3672.5	3672.5	3638.7	3636.8	3686.6	3680.0	3642.4
17.5°	3669.7	3658.4	3579.4	3585.1	3591.6	3599.2	3572.8	3577.5	3630.2	3621.7	3587.9
20°	3566.3	3555.0	3477.8	3493.8	3507.9	3523.0	3506.1	3519.2	3568.1	3564.4	3539.0
22.5°	3450.6	3439.3	3367.8	3392.3	3415.8	3444.0	3436.5	3451.5	3503.2	3502.3	3479.7
25°	3309.5	3312.3	3249.3	3279.4	3318.9	3358.4	3361.2	3385.7	3443.1	3437.4	3416.7
27.5°	3177.8	3181.6	3114.8	3165.6	3218.3	3269.1	3281.3	3315.1	3373.5	3368.8	3350.9
30°	3039.6	3044.3	2979.4	3049.0	3112.9	3175.0	3201.4	3247.4	3306.7	3306.7	3287.9
32.5°	2895.7	2904.2	2836.4	2929.6	3003.9	3076.3	3122.4	3170.3	3238.0	3236.1	3220.2
35°	2748.0	2757.4	2695.4	2813.9	2888.2	2976.6	3033.9	3097.9	3158.1	3159.0	3146.8
37.5°	2597.6	2608.9	2552.4	2682.2	2766.9	2871.2	2944.6	3008.6	3075.3	3079.1	3067.8
40°	2448.0	2460.3	2411.4	2536.4	2643.7	2760.3	2844.9	2920.2	2993.5	2995.4	2987.9
42.5°	2298.5	2311.7	2275.0	2397.3	2518.6	2643.7	2743.3	2828.9	2904.2	2908.9	2900.4
45°	2152.7	2164.0	2137.7	2271.2	2387.8	2524.2	2639.0	2735.8	2812.0	2818.6	2815.8
47.5°	2007.9	2018.2	1994.7	2117.0	2251.5	2396.3	2528.9	2636.1	2717.0	2724.5	2722.7
50°	1865.9	1874.4	1849.0	1976.9	2110.4	2264.6	2402.9	2527.0	2617.3	2624.8	2623.9
52.5°	1724.8	1733.3	1711.7	1846.1	1967.5	2130.2	2280.6	2415.1	2504.5	2515.7	2517.6
55°	1588.4	1592.2	1575.3	1704.1	1821.7	1991.9	2165.0	2295.7	2385.0	2394.4	2400.1
57.5°	1452.1	1453.0	1438.9	1562.1	1675.0	1849.0	2030.5	2167.8	2252.4	2261.8	2270.3
60°	1316.7	1315.7	1299.7	1419.2	1527.3	1699.4	1888.5	2024.8	2106.6	2115.1	2126.4
62.5°	1182.2	1179.3	1165.2	1275.3	1376.8	1547.1	1737.0	1868.7	1946.8	1952.4	1967.5
65°	1048.6	1045.8	1032.6	1134.2	1226.4	1389.1	1575.3	1700.4	1770.9	1778.4	1775.6
67.5°	917.0	911.3	901.0	992.2	1075.9	1226.4	1405.1	1524.5	1582.8	1589.4	1607.3
70°	785.3	778.7	755.2	852.1	925.4	1059.9	1226.4	1332.6	1381.5	1388.1	1385.3
72.5°	655.5	648.9	623.5	712.9	774.9	892.5	1041.1	1129.5	1171.8	1177.5	1177.5
75°	529.5	525.7	509.7	577.4	629.2	725.1	851.1	924.5	957.4	964.0	962.1
77.5°	408.2	405.3	389.4	447.7	488.1	559.6	661.1	718.5	743.0	750.5	766.5
80°	292.5	291.5	266.2	323.5	341.4	401.6	475.9	520.1	533.2	543.6	554.9
82.5°	187.2	188.1	162.7	211.6	219.1	257.7	303.8	331.0	340.4	348.9	357.4
85°	91.2	95.0	80.9	111.9	112.9	132.6	152.4	162.7	166.5	173.0	180.6
87.5°	23.5	27.3	15.0	32.0	28.2	36.7	42.3	45.1	44.2	48.9	51.7
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°	4031.8	4031.8	4031.8	4031.8	4031.8	4031.8	4031.8	4031.8	4031.8	4031.8	4031.8
2.5°	3946.2	3976.3	3961.2	4010.2	4029.0	3998.9	4051.5	4052.5	4014.9	4059.1	4083.5
5°	3885.1	3916.1	3906.7	3957.5	3981.0	3954.7	4018.6	4030.8	3994.2	4044.0	4083.5
7.5°	3823.0	3859.7	3847.5	3899.2	3927.4	3906.7	3975.4	3995.1	3966.9	4021.4	4074.1
10°	3769.4	3800.4	3787.3	3841.8	3866.3	3849.3	3917.0	3953.7	3927.4	3994.2	4057.2
12.5°	3716.7	3742.1	3727.1	3772.2	3795.7	3774.1	3856.9	3890.7	3871.9	3941.5	4022.4
15°	3649.0	3677.2	3656.5	3697.0	3714.8	3696.0	3763.7	3822.1	3798.5	3874.7	3964.1
17.5°	3597.3	3613.3	3585.1	3617.0	3627.4	3602.0	3670.6	3728.0	3711.1	3793.8	3897.3
20°	3539.9	3553.1	3513.6	3531.5	3530.5	3498.5	3561.5	3618.0	3606.7	3697.9	3815.5
22.5°	3476.0	3482.5	3436.5	3440.2	3438.3	3385.7	3442.1	3499.5	3494.8	3586.9	3718.6
25°	3408.3	3409.2	3349.9	3348.1	3327.4	3265.3	3315.1	3380.0	3365.9	3465.6	3603.9
27.5°	3341.5	3332.1	3260.6	3243.7	3210.8	3136.5	3180.7	3239.0	3230.5	3328.3	3481.6
30°	3270.0	3257.8	3170.3	3139.3	3091.3	3005.7	3042.4	3097.0	3101.7	3187.2	3348.1
32.5°	3202.3	3171.3	3074.4	3029.2	2969.1	2869.4	2889.1	2944.6	2952.1	3038.6	3204.2
35°	3114.8	3094.1	2974.7	2897.6	2838.3	2729.2	2749.9	2788.5	2799.8	2884.4	3052.8
37.5°	3032.1	2999.1	2872.2	2778.1	2702.0	2587.2	2592.9	2632.4	2643.7	2729.2	2895.7
40°	2946.5	2899.5	2763.1	2653.1	2565.6	2445.2	2438.6	2480.0	2488.5	2572.2	2722.7
42.5°	2855.3	2798.8	2645.5	2525.2	2424.5	2302.3	2289.1	2324.8	2334.2	2416.1	2563.7
45°	2763.1	2695.4	2525.2	2393.5	2283.5	2158.4	2145.2	2172.5	2186.6	2263.7	2405.7
47.5°	2665.3	2586.3	2401.0	2254.3	2140.5	2015.4	1999.4	2026.7	2038.0	2114.2	2248.7
50°	2562.8	2466.8	2273.1	2111.3	1998.5	1875.3	1851.8	1883.8	1894.1	1965.6	2097.2
52.5°	2449.9	2343.6	2136.7	1967.5	1854.6	1737.0	1708.8	1739.9	1752.1	1821.7	1943.0
55°	2330.5	2215.7	1999.4	1834.9	1712.6	1597.9	1574.3	1586.6	1612.9	1678.7	1791.6
57.5°	2196.0	2082.2	1854.6	1687.2	1569.6	1459.6	1439.9	1451.1	1475.6	1539.5	1641.1
60°	2053.0	1932.7	1706.9	1539.5	1425.7	1321.4	1303.5	1313.8	1340.2	1398.5	1492.5
62.5°	1912.0	1776.5	1554.6	1388.1	1284.7	1187.8	1183.1	1179.3	1203.8	1260.2	1343.0
65°	1740.8	1611.0	1395.7	1237.7	1143.6	1056.1	1037.3	1045.8	1069.3	1121.0	1207.6
67.5°	1557.4	1439.9	1233.0	1087.2	1003.5	925.4	909.4	913.2	937.6	982.8	1058.0
70°	1362.7	1259.3	1066.5	935.8	865.2	791.9	781.5	782.5	806.0	845.5	911.3
72.5°	1158.7	1065.5	898.1	786.2	727.9	675.3	665.9	654.6	676.2	710.1	766.5
75°	950.8	869.0	730.7	639.5	593.4	549.2	540.8	529.5	551.1	580.3	624.5
77.5°	741.1	675.3	568.0	497.5	461.8	428.9	421.3	409.1	430.7	452.4	487.2
80°	536.1	488.1	424.2	349.9	337.6	316.0	308.5	295.3	316.0	330.1	356.4
82.5°	346.1	314.1	277.4	225.7	223.8	207.8	204.1	189.0	207.8	216.3	236.1
85°	174.9	159.9	150.5	114.7	118.5	108.2	107.2	91.2	106.3	110.0	121.3
87.5°	49.8	52.7	47.0	28.2	35.7	33.9	33.9	24.5	33.9	33.9	38.6
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: P838193

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-5LO-30-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4031.8	4031.8	4031.8	4031.8	4031.8	4031.8	4031.8	4031.8
2.5°	4035.5	4051.5	4055.3	4054.4	4064.7	4121.1	4102.3	4121.1
5°	4044.9	4080.7	4090.1	4103.3	4120.2	4184.1	4163.4	4186.0
7.5°	4050.6	4104.2	4124.9	4150.3	4177.6	4249.0	4232.1	4254.7
10°	4050.6	4120.2	4150.3	4192.6	4229.3	4312.0	4296.1	4322.4
12.5°	4033.7	4123.0	4165.3	4224.6	4271.6	4360.9	4354.4	4373.2
15°	3998.9	4108.9	4167.2	4243.4	4301.7	4401.4	4398.6	4421.1
17.5°	3951.8	4084.4	4155.0	4250.9	4324.3	4436.2	4442.8	4455.0
20°	3892.6	4038.4	4130.5	4248.1	4340.3	4463.5	4471.9	4488.8
22.5°	3814.5	3982.9	4093.9	4235.9	4342.1	4474.7	4489.8	4505.8
25°	3722.4	3916.1	4045.9	4212.4	4332.7	4473.8	4494.5	4508.6
27.5°	3617.0	3829.6	3984.8	4174.7	4306.4	4458.8	4484.1	4501.1
30°	3494.8	3737.4	3915.2	4125.8	4270.7	4430.5	4457.8	4474.7
32.5°	3368.8	3635.8	3832.4	4062.8	4218.9	4385.4	4408.9	4422.1
35°	3231.4	3512.6	3732.7	3981.9	4152.2	4313.0	4330.9	4345.0
37.5°	3081.9	3379.1	3618.9	3890.7	4058.1	4212.4	4228.3	4244.3
40°	2927.7	3239.0	3491.0	3778.8	3946.2	4089.2	4106.1	4117.4
42.5°	2772.5	3083.8	3354.6	3647.1	3813.6	3950.9	3961.2	3972.5
45°	2615.4	2923.0	3201.4	3501.4	3665.9	3794.8	3798.5	3808.0
47.5°	2455.6	2756.5	3033.0	3334.9	3497.6	3615.2	3618.9	3626.4
50°	2294.7	2590.0	2853.4	3155.3	3314.2	3438.3	3421.4	3428.9
52.5°	2136.7	2415.1	2684.1	2961.5	3118.6	3228.6	3233.3	3218.3
55°	1981.6	2244.0	2491.3	2758.4	2907.9	2993.5	2990.7	2996.3
57.5°	1824.5	2070.9	2297.6	2542.1	2687.9	2768.7	2785.7	2765.9
60°	1664.6	1896.0	2099.1	2320.1	2461.2	2528.9	2548.7	2529.9
62.5°	1505.7	1718.2	1902.6	2095.4	2226.1	2309.8	2307.9	2287.2
65°	1346.7	1539.5	1704.1	1867.8	1981.6	2065.3	2061.5	2042.7
67.5°	1200.0	1359.0	1506.6	1639.2	1738.0	1795.4	1815.1	1792.5
70°	1038.3	1175.6	1305.4	1411.6	1493.5	1545.2	1564.0	1544.2
72.5°	876.5	993.1	1084.4	1186.9	1249.9	1293.1	1312.9	1294.1
75°	716.6	812.6	886.9	966.8	1011.0	1047.7	1070.3	1051.4
77.5°	561.5	635.8	695.0	753.3	804.1	812.6	832.3	820.1
80°	413.8	467.4	510.7	549.2	585.9	589.7	605.7	598.1
82.5°	275.6	311.3	322.6	363.0	386.5	382.8	398.8	393.1
85°	145.8	167.4	187.2	199.4	212.5	200.3	214.4	208.8
87.5°	48.9	51.7	45.1	64.0	70.5	60.2	68.7	65.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)