

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: P838050

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-5STD-20-120-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: P838050
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-LD4-5STD-20-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

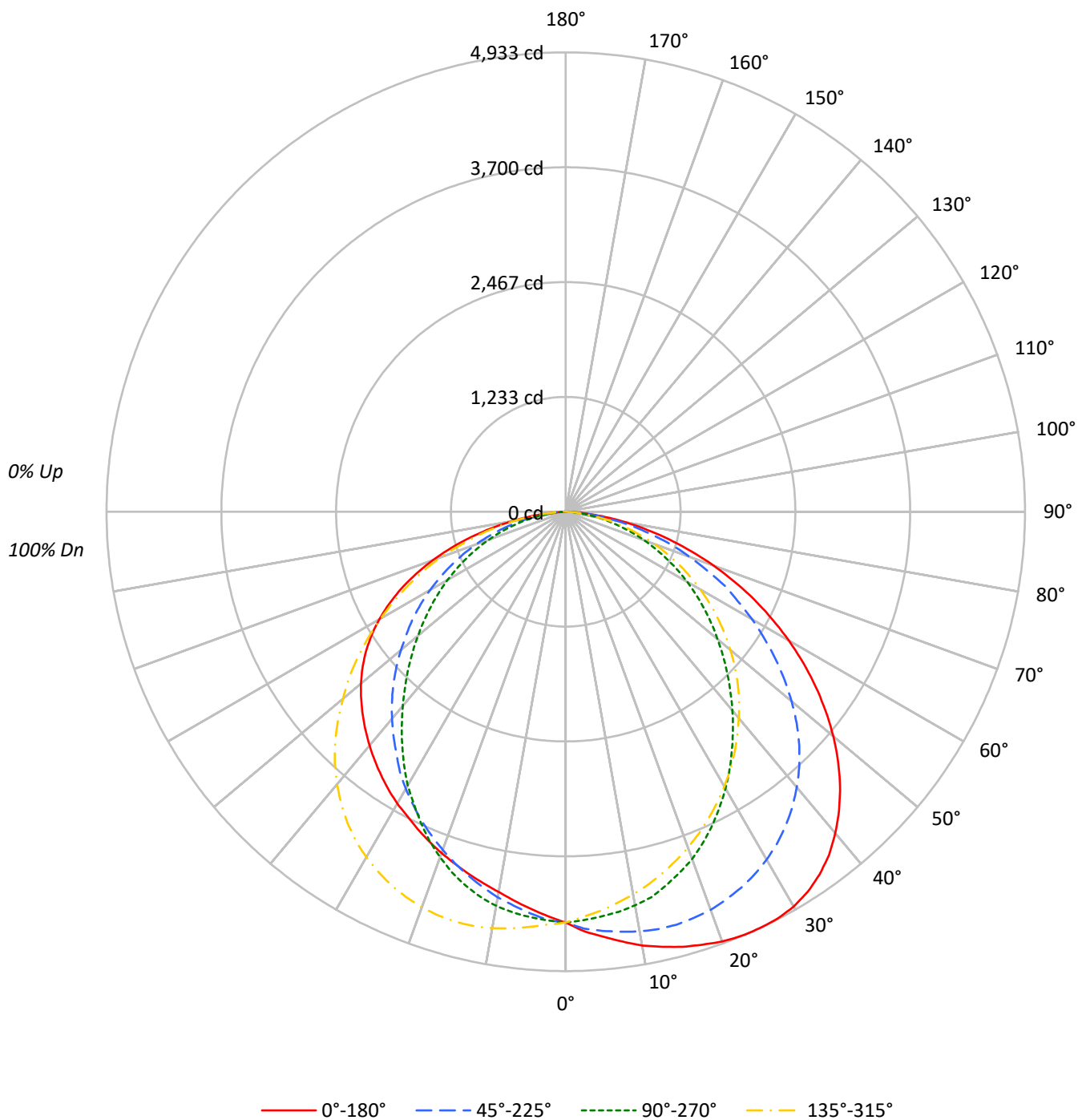
Lumens per Lamp: N/A
Luminaire Lumens: 12942.9 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 166.5
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°	5936	5936	5936	5936
5°	6186	5893	5782	5903
10°	6462	5863	5665	5871
15°	6739	5788	5609	5790
20°	7033	5683	5584	5651
25°	7324	5524	5584	5468
30°	7607	5332	5621	5273
35°	7809	5113	5678	5032
40°	7913	4893	5757	4783
45°	7928	4670	5868	4553
50°	7854	4457	6012	4338
55°	7691	4258	6146	4140
60°	7449	4051	6228	3946
65°	7116	3813	6195	3725
70°	6647	3534	5975	3469
75°	5981	3151	5483	3135
80°	5071	2639	4609	2679
85°	3528	1748	2922	1795

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	418.8	3.2
10°-20°	1212.9	9.4
20°-30°	1858.8	14.4
30°-40°	2260.2	17.5
40°-50°	2349.6	18.2
50°-60°	2122.4	16.4
60°-70°	1613.6	12.5
70°-80°	899.5	7.0
80°-90°	207.1	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°	3490.5	27.0
0°-40°	5750.7	44.4
0°-60°	10222.7	79.0
0°-90°	12942.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12942.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4412	4412	4412	4412	4412	
5°	4580	4363	4281	4370	4580	442
15°	4838	4155	4027	4156	4838	1372
25°	4933	3721	3761	3683	4933	2279
35°	4754	3113	3457	3064	4754	2969
45°	4167	2454	3084	2393	4167	3208
55°	3279	1815	2620	1765	3279	2927
65°	2235	1198	1946	1170	2235	2209
75°	1150	606	1055	603	1150	1222
85°	228	113	189	116	228	288
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°	4411.6	4411.6	4411.6	4411.6	4411.6	4411.6	4411.6	4411.6	4411.6	4411.6	4411.6
2.5°	4509.3	4443.5	4444.5	4502.1	4457.9	4479.5	4417.7	4441.4	4434.2	4439.3	4388.9
5°	4580.3	4509.3	4508.3	4557.7	4508.3	4517.6	4439.3	4454.8	4432.1	4417.7	4363.2
7.5°	4655.4	4584.4	4577.2	4620.5	4555.6	4548.4	4462.0	4462.0	4420.8	4384.8	4333.4
10°	4729.5	4656.5	4647.2	4680.1	4599.9	4576.2	4471.2	4454.8	4400.2	4346.7	4291.2
12.5°	4785.1	4711.0	4703.8	4724.4	4633.8	4590.6	4471.2	4439.3	4359.1	4284.0	4240.7
15°	4837.6	4761.4	4741.9	4752.2	4648.2	4590.6	4456.8	4407.4	4304.5	4205.7	4155.3
17.5°	4874.6	4801.6	4782.0	4781.0	4655.4	4573.1	4426.0	4358.0	4234.6	4115.2	4064.8
20°	4911.7	4838.6	4813.9	4795.4	4653.4	4549.5	4380.7	4289.1	4145.0	4011.3	3969.1
22.5°	4930.2	4855.1	4828.3	4800.5	4640.0	4506.2	4325.1	4208.8	4044.2	3884.7	3849.7
25°	4933.3	4856.1	4827.3	4787.2	4613.3	4454.8	4253.1	4112.1	3927.9	3750.9	3721.1
27.5°	4925.1	4840.7	4811.9	4763.5	4573.1	4392.0	4167.7	4002.0	3804.4	3608.9	3577.0
30°	4896.2	4810.8	4783.0	4720.3	4516.5	4314.8	4074.0	3879.5	3667.6	3459.7	3431.9
32.5°	4838.6	4755.3	4732.6	4669.9	4454.8	4225.3	3964.9	3747.8	3516.3	3317.7	3276.5
35°	4754.2	4670.9	4656.5	4590.6	4368.3	4118.3	3845.6	3603.8	3355.7	3153.0	3112.9
37.5°	4644.1	4574.1	4552.5	4487.7	4266.5	3996.9	3708.7	3447.3	3192.1	2974.0	2949.3
40°	4505.2	4439.3	4422.9	4365.3	4148.1	3862.0	3560.5	3285.8	3023.4	2820.6	2785.7
42.5°	4346.7	4285.0	4275.7	4216.0	4002.0	3712.8	3400.0	3118.0	2847.4	2651.9	2616.9
45°	4166.6	4107.0	4104.9	4048.3	3842.5	3547.2	3231.2	2948.2	2675.5	2472.8	2454.3
47.5°	3968.0	3914.5	3914.5	3862.0	3664.5	3365.0	3057.3	2771.2	2502.7	2323.6	2290.7
50°	3751.9	3701.5	3686.1	3660.3	3467.9	3166.4	2874.2	2598.4	2331.8	2161.0	2129.1
52.5°	3521.4	3478.2	3488.5	3441.2	3254.9	2959.6	2688.9	2403.9	2160.0	2004.6	1972.7
55°	3278.6	3216.8	3226.1	3208.6	3032.6	2746.5	2481.1	2243.3	1991.2	1845.1	1815.3
57.5°	3026.5	2946.2	2979.1	2968.8	2795.9	2528.4	2290.7	2061.2	1823.5	1688.7	1659.9
60°	2768.2	2691.0	2724.9	2715.7	2553.1	2310.2	2094.1	1881.1	1656.8	1534.3	1505.5
62.5°	2502.7	2431.7	2462.5	2455.3	2306.1	2086.9	1898.6	1703.1	1489.0	1378.9	1352.2
65°	2235.1	2167.2	2195.0	2189.8	2051.9	1885.2	1697.9	1518.9	1320.3	1224.6	1197.8
67.5°	1961.4	1898.6	1924.3	1924.3	1797.8	1638.3	1496.2	1332.6	1154.6	1072.3	1047.6
70°	1689.7	1631.1	1653.7	1651.6	1544.6	1415.0	1292.5	1146.4	986.9	918.9	898.4
72.5°	1416.0	1364.5	1385.1	1383.1	1293.5	1210.2	1088.7	962.2	823.2	768.7	750.2
75°	1150.5	1102.1	1121.7	1119.6	1046.5	968.3	887.0	782.1	662.7	624.6	606.1
77.5°	897.3	847.9	864.4	864.4	810.9	754.3	689.5	608.2	523.8	482.6	469.2
80°	654.5	630.8	622.6	623.6	587.6	550.5	517.6	439.4	377.7	349.9	340.6
82.5°	430.1	410.6	402.4	404.4	383.8	361.2	340.6	286.1	244.9	228.5	223.3
85°	228.5	214.0	206.8	212.0	207.9	195.5	185.2	148.2	122.5	116.3	113.2
87.5°	72.0	62.8	57.6	76.2	64.8	57.6	55.6	44.2	34.0	34.0	32.9
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°	4411.6	4411.6	4411.6	4411.6	4411.6	4411.6	4411.6	4411.6	4411.6	4411.6	4411.6
2.5°	4405.4	4405.4	4365.3	4356.0	4351.9	4357.0	4316.9	4309.7	4367.3	4347.8	4303.5
5°	4370.4	4368.3	4311.7	4301.5	4301.5	4295.3	4250.0	4239.7	4297.3	4280.9	4232.5
7.5°	4327.2	4321.0	4254.1	4246.9	4236.6	4232.5	4182.1	4174.9	4224.3	4214.0	4168.7
10°	4274.7	4268.5	4189.3	4184.1	4172.8	4164.6	4117.2	4112.1	4162.5	4146.1	4110.0
12.5°	4205.7	4194.4	4113.1	4108.0	4098.7	4095.6	4049.3	4047.3	4102.8	4086.4	4048.3
15°	4115.2	4105.9	4015.4	4017.4	4018.5	4018.5	3981.4	3979.4	4033.9	4026.7	3985.5
17.5°	4015.4	4003.0	3916.6	3922.8	3930.0	3938.2	3909.4	3914.5	3972.2	3962.9	3925.8
20°	3902.2	3889.8	3805.4	3822.9	3838.4	3854.8	3836.3	3850.7	3904.2	3900.1	3872.3
22.5°	3775.6	3763.3	3685.0	3711.8	3737.5	3768.4	3760.2	3776.6	3833.2	3832.2	3807.5
25°	3621.2	3624.3	3555.4	3588.3	3631.5	3674.8	3677.8	3704.6	3767.4	3761.2	3738.6
27.5°	3477.2	3481.3	3408.2	3463.8	3521.4	3577.0	3590.4	3627.4	3691.2	3686.1	3666.5
30°	3325.9	3331.1	3260.0	3336.2	3406.2	3474.1	3502.9	3553.3	3618.2	3618.2	3597.6
32.5°	3168.5	3177.7	3103.6	3205.5	3286.8	3366.0	3416.5	3468.9	3543.0	3541.0	3523.5
35°	3006.9	3017.2	2949.3	3078.9	3160.2	3257.0	3319.7	3389.7	3455.6	3456.6	3443.2
37.5°	2842.3	2854.6	2792.9	2934.9	3027.5	3141.7	3222.0	3291.9	3365.0	3369.1	3356.8
40°	2678.6	2692.0	2638.5	2775.4	2892.7	3020.3	3112.9	3195.2	3275.5	3277.5	3269.3
42.5°	2515.0	2529.4	2489.3	2623.1	2755.8	2892.7	3001.8	3095.4	3177.7	3182.9	3173.6
45°	2355.5	2367.9	2339.0	2485.2	2612.8	2762.0	2887.5	2993.5	3076.9	3084.1	3081.0
47.5°	2197.0	2208.4	2182.6	2316.4	2463.6	2622.0	2767.1	2884.4	2972.9	2981.2	2979.1
50°	2041.6	2050.9	2023.1	2163.1	2309.2	2478.0	2629.2	2765.1	2863.9	2872.1	2871.1
52.5°	1887.3	1896.5	1872.9	2020.0	2152.8	2330.8	2495.5	2642.6	2740.4	2752.7	2754.8
55°	1738.1	1742.2	1723.7	1864.6	1993.3	2179.5	2368.9	2511.9	2609.7	2620.0	2626.1
57.5°	1588.9	1589.9	1574.5	1709.3	1832.7	2023.1	2221.7	2372.0	2464.6	2474.9	2484.1
60°	1440.7	1439.6	1422.2	1552.8	1671.2	1859.5	2066.3	2215.6	2305.1	2314.3	2326.7
62.5°	1293.5	1290.4	1275.0	1395.4	1506.5	1692.8	1900.7	2044.7	2130.1	2136.3	2152.8
65°	1147.4	1144.3	1129.9	1241.0	1341.9	1519.9	1723.7	1860.5	1937.7	1945.9	1942.9
67.5°	1003.3	997.2	985.8	1085.7	1177.2	1341.9	1537.4	1668.1	1731.9	1739.1	1758.7
70°	859.3	852.1	826.3	932.3	1012.6	1159.7	1341.9	1458.2	1511.7	1518.9	1515.8
72.5°	717.3	710.0	682.3	780.0	847.9	976.6	1139.2	1235.9	1282.2	1288.4	1288.4
75°	579.4	575.2	557.7	631.8	688.4	793.4	931.3	1011.6	1047.6	1054.8	1052.7
77.5°	446.6	443.5	426.0	489.8	534.1	612.3	723.4	786.2	813.0	821.2	838.7
80°	320.0	319.0	291.2	354.0	373.5	439.4	520.7	569.1	583.5	594.8	607.1
82.5°	204.8	205.8	178.0	231.5	239.8	282.0	332.4	362.2	372.5	381.8	391.0
85°	99.8	103.9	88.5	122.5	123.5	145.1	166.7	178.0	182.1	189.3	197.6
87.5°	25.7	29.8	16.5	35.0	30.9	40.1	46.3	49.4	48.4	53.5	56.6
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°	4411.6	4411.6	4411.6	4411.6	4411.6	4411.6	4411.6	4411.6	4411.6	4411.6	4411.6
2.5°	4317.9	4350.8	4334.4	4387.9	4408.5	4375.5	4433.2	4434.2	4393.0	4441.4	4468.2
5°	4251.0	4285.0	4274.7	4330.3	4356.0	4327.2	4397.2	4410.5	4370.4	4424.9	4468.2
7.5°	4183.1	4223.2	4209.9	4266.5	4297.3	4274.7	4349.8	4371.4	4340.6	4400.2	4457.9
10°	4124.5	4158.4	4144.0	4203.7	4230.4	4211.9	4286.0	4326.1	4297.3	4370.4	4439.3
12.5°	4066.8	4094.6	4078.1	4127.5	4153.3	4129.6	4220.2	4257.2	4236.6	4312.8	4401.3
15°	3992.7	4023.6	4001.0	4045.2	4064.8	4044.2	4118.3	4182.1	4156.4	4239.7	4337.5
17.5°	3936.1	3953.6	3922.8	3957.7	3969.1	3941.3	4016.4	4079.2	4060.7	4151.2	4264.4
20°	3873.4	3887.8	3844.5	3864.1	3863.1	3828.1	3897.0	3958.8	3946.4	4046.2	4174.9
22.5°	3803.4	3810.6	3760.2	3764.3	3762.2	3704.6	3766.3	3829.1	3824.0	3924.8	4068.9
25°	3729.3	3730.3	3665.5	3663.4	3640.8	3572.9	3627.4	3698.4	3683.0	3792.1	3943.3
27.5°	3656.2	3645.9	3567.7	3549.2	3513.2	3431.9	3480.3	3544.1	3534.8	3641.8	3809.6
30°	3578.0	3564.6	3468.9	3435.0	3382.5	3288.9	3329.0	3388.7	3393.8	3487.5	3663.4
32.5°	3503.9	3470.0	3364.0	3314.6	3248.7	3139.6	3161.3	3222.0	3230.2	3324.9	3506.0
35°	3408.2	3385.6	3254.9	3170.5	3105.7	2986.3	3009.0	3051.1	3063.5	3156.1	3340.3
37.5°	3317.7	3281.7	3142.7	3039.8	2956.5	2830.9	2837.1	2880.3	2892.7	2986.3	3168.5
40°	3224.0	3172.6	3023.4	2903.0	2807.3	2675.5	2668.3	2713.6	2722.9	2814.5	2979.1
42.5°	3124.2	3062.5	2894.7	2763.0	2652.9	2519.1	2504.7	2543.8	2554.1	2643.6	2805.2
45°	3023.4	2949.3	2763.0	2618.9	2498.5	2361.7	2347.3	2377.1	2392.6	2476.9	2632.3
47.5°	2916.3	2829.9	2627.2	2466.6	2342.1	2205.3	2187.8	2217.6	2230.0	2313.3	2460.5
50°	2804.2	2699.2	2487.2	2310.2	2186.7	2051.9	2026.2	2061.2	2072.5	2150.7	2294.8
52.5°	2680.7	2564.4	2338.0	2152.8	2029.3	1900.7	1869.8	1903.8	1917.1	1993.3	2126.0
55°	2550.0	2424.5	2187.8	2007.7	1873.9	1748.4	1722.6	1736.0	1764.8	1836.9	1960.3
57.5°	2402.8	2278.3	2029.3	1846.1	1717.5	1597.1	1575.5	1587.8	1614.6	1684.6	1795.7
60°	2246.4	2114.7	1867.7	1684.6	1560.0	1445.8	1426.3	1437.6	1466.4	1530.2	1633.1
62.5°	2092.1	1943.9	1701.0	1518.9	1405.7	1299.7	1294.6	1290.4	1317.2	1378.9	1469.5
65°	1904.8	1762.8	1527.1	1354.2	1251.3	1155.6	1135.0	1144.3	1170.0	1226.6	1321.3
67.5°	1704.1	1575.5	1349.1	1189.6	1098.0	1012.6	995.1	999.2	1026.0	1075.4	1157.7
70°	1491.1	1377.9	1166.9	1023.9	946.7	866.5	855.1	856.2	881.9	925.1	997.2
72.5°	1267.8	1165.9	982.7	860.3	796.5	738.9	728.6	716.2	739.9	776.9	838.7
75°	1040.4	950.8	799.6	699.8	649.3	601.0	591.7	579.4	603.0	634.9	683.3
77.5°	810.9	738.9	621.5	544.4	505.3	469.2	461.0	447.6	471.3	495.0	533.1
80°	586.6	534.1	464.1	382.8	369.4	345.8	337.5	323.1	345.8	361.2	390.0
82.5°	378.7	343.7	303.6	247.0	244.9	227.4	223.3	206.8	227.4	236.7	258.3
85°	191.4	174.9	164.6	125.5	129.7	118.3	117.3	99.8	116.3	120.4	132.7
87.5°	54.5	57.6	51.5	30.9	39.1	37.0	37.0	26.8	37.0	37.0	42.2
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: P838050

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-5STD-20-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	4411.6	4411.6	4411.6	4411.6	4411.6	4411.6	4411.6	4411.6
2.5°	4415.7	4433.2	4437.3	4436.3	4447.6	4509.3	4488.7	4509.3
5°	4426.0	4465.1	4475.4	4489.8	4508.3	4578.3	4555.6	4580.3
7.5°	4432.1	4490.8	4513.4	4541.2	4571.1	4649.3	4630.7	4655.4
10°	4432.1	4508.3	4541.2	4587.5	4627.7	4718.2	4700.7	4729.5
12.5°	4413.6	4511.4	4557.7	4622.5	4674.0	4771.7	4764.5	4785.1
15°	4375.5	4495.9	4559.7	4643.1	4706.9	4816.0	4812.9	4837.6
17.5°	4324.1	4469.2	4546.4	4651.3	4731.6	4854.1	4861.3	4874.6
20°	4259.3	4418.8	4519.6	4648.2	4749.1	4883.9	4893.2	4911.7
22.5°	4173.8	4358.0	4479.5	4634.9	4751.1	4896.2	4912.7	4930.2
25°	4073.0	4285.0	4427.0	4609.1	4740.9	4895.2	4917.9	4933.3
27.5°	3957.7	4190.3	4360.1	4568.0	4712.0	4878.8	4906.5	4925.1
30°	3824.0	4089.5	4284.0	4514.5	4672.9	4847.9	4877.7	4896.2
32.5°	3686.1	3978.3	4193.4	4445.5	4616.3	4798.5	4824.2	4838.6
35°	3535.8	3843.5	4084.3	4357.0	4543.3	4719.2	4738.8	4754.2
37.5°	3372.2	3697.4	3959.8	4257.2	4440.4	4609.1	4626.6	4644.1
40°	3203.4	3544.1	3819.9	4134.7	4317.9	4474.3	4492.9	4505.2
42.5°	3033.7	3374.3	3670.6	3990.7	4172.8	4323.1	4334.4	4346.7
45°	2861.8	3198.3	3502.9	3831.2	4011.3	4152.2	4156.4	4166.6
47.5°	2686.9	3016.2	3318.7	3649.0	3827.1	3955.7	3959.8	3968.0
50°	2510.9	2834.0	3122.2	3452.5	3626.4	3762.2	3743.7	3751.9
52.5°	2338.0	2642.6	2936.9	3240.5	3412.3	3532.7	3537.9	3521.4
55°	2168.2	2455.3	2726.0	3018.2	3181.8	3275.5	3272.4	3278.6
57.5°	1996.4	2266.0	2514.0	2781.5	2941.0	3029.5	3048.1	3026.5
60°	1821.4	2074.6	2296.9	2538.7	2693.0	2767.1	2788.7	2768.2
62.5°	1647.5	1880.1	2081.8	2292.7	2435.8	2527.4	2525.3	2502.7
65°	1473.6	1684.6	1864.6	2043.7	2168.2	2259.8	2255.7	2235.1
67.5°	1313.1	1487.0	1648.5	1793.6	1901.7	1964.5	1986.1	1961.4
70°	1136.1	1286.3	1428.3	1544.6	1634.1	1690.7	1711.3	1689.7
72.5°	959.1	1086.7	1186.5	1298.7	1367.6	1415.0	1436.6	1416.0
75°	784.1	889.1	970.4	1057.9	1106.2	1146.4	1171.1	1150.5
77.5°	614.3	695.6	760.5	824.3	879.8	889.1	910.7	897.3
80°	452.8	511.4	558.8	601.0	641.1	645.2	662.7	654.5
82.5°	301.5	340.6	353.0	397.2	422.9	418.8	436.3	430.1
85°	159.5	183.2	204.8	218.2	232.6	219.2	234.6	228.5
87.5°	53.5	56.6	49.4	70.0	77.2	65.9	75.1	72.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)