

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: P838119

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-4STD-40-120-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: P838119
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-LD4-4STD-40-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and RFI grid
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

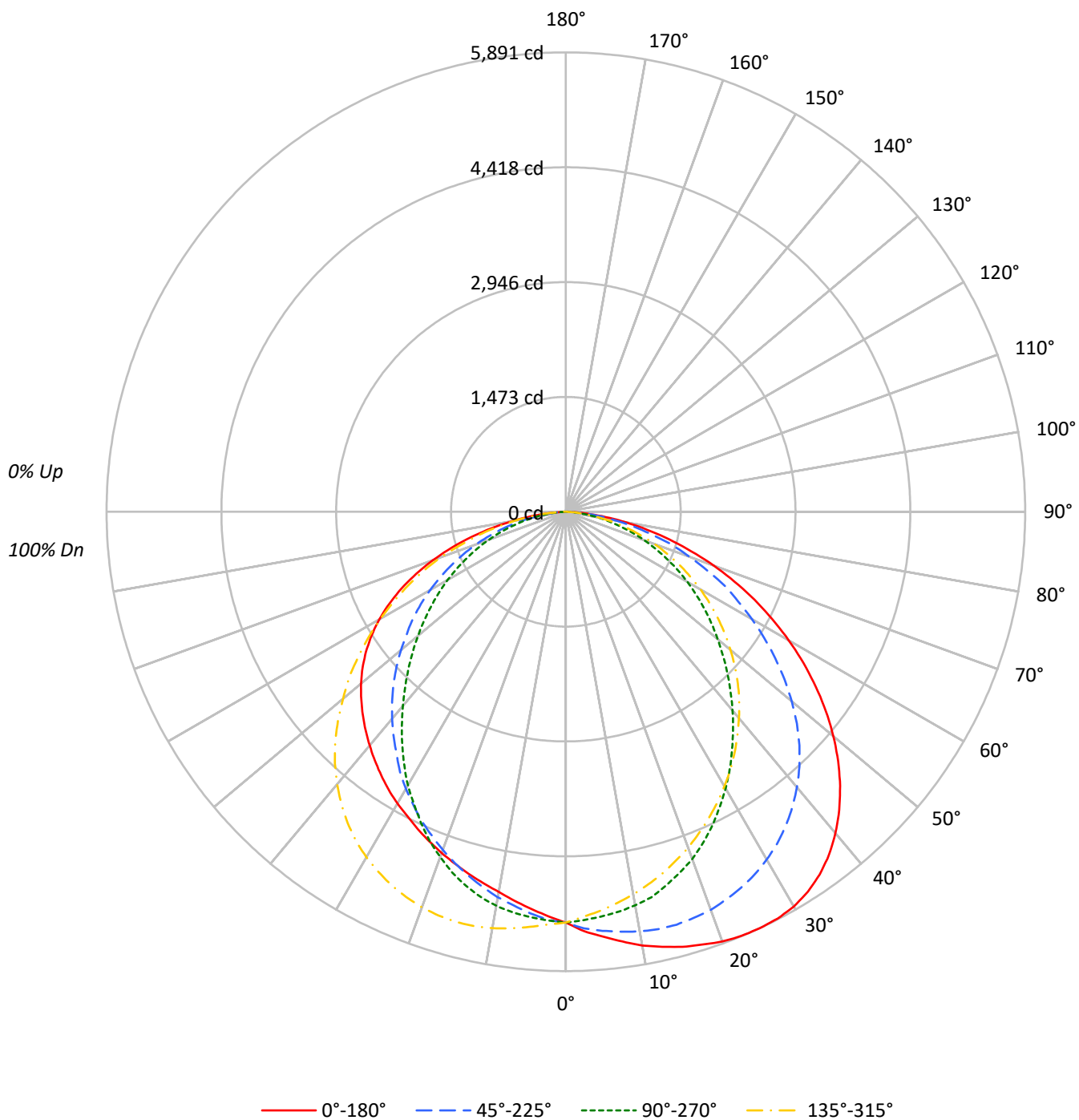
Lumens per Lamp: N/A
Luminaire Lumens: 15455.0 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 133.2
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°	7088	7088	7088	7088
5°	7387	7037	6904	7048
10°	7716	7001	6764	7011
15°	8046	6912	6698	6913
20°	8398	6786	6668	6747
25°	8745	6596	6668	6529
30°	9083	6367	6712	6296
35°	9325	6105	6780	6009
40°	9449	5842	6874	5711
45°	9467	5576	7007	5436
50°	9378	5322	7179	5180
55°	9184	5085	7339	4944
60°	8895	4838	7437	4712
65°	8497	4554	7398	4448
70°	7938	4220	7135	4143
75°	7142	3763	6548	3743
80°	6055	3151	5503	3199
85°	4211	2087	3490	2144

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	500.1	3.2
10°-20°	1448.3	9.4
20°-30°	2219.6	14.4
30°-40°	2698.9	17.5
40°-50°	2805.6	18.2
50°-60°	2534.3	16.4
60°-70°	1926.7	12.5
70°-80°	1074.1	7.0
80°-90°	247.3	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°	4168.0	27.0
0°-40°	6866.9	44.4
0°-60°	12206.8	79.0
0°-90°	15455.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15455.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5268	5268	5268	5268	5268	
5°	5469	5210	5112	5219	5469	527
15°	5776	4962	4808	4963	5776	1638
25°	5891	4443	4491	4398	5891	2721
35°	5677	3717	4128	3658	5677	3546
45°	4975	2931	3683	2857	4975	3831
55°	3915	2168	3128	2107	3915	3495
65°	2669	1430	2324	1397	2669	2637
75°	1374	724	1260	720	1374	1459
85°	273	135	226	139	273	343
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°	5267.8	5267.8	5267.8	5267.8	5267.8	5267.8	5267.8	5267.8	5267.8	5267.8	5267.8
2.5°	5384.5	5305.9	5307.1	5375.9	5323.1	5348.9	5275.2	5303.4	5294.8	5301.0	5240.8
5°	5469.3	5384.5	5383.3	5442.3	5383.3	5394.3	5301.0	5319.4	5292.4	5275.2	5210.0
7.5°	5559.0	5474.2	5465.6	5517.2	5439.8	5431.2	5328.0	5328.0	5278.8	5235.8	5174.4
10°	5647.5	5560.2	5549.2	5588.5	5492.7	5464.4	5339.1	5319.4	5254.3	5190.4	5124.0
12.5°	5713.8	5625.4	5616.8	5641.3	5533.2	5481.6	5339.1	5301.0	5205.1	5115.4	5063.8
15°	5776.5	5685.6	5662.2	5674.5	5550.4	5481.6	5321.9	5262.9	5140.0	5022.0	4961.8
17.5°	5820.7	5733.5	5710.1	5708.9	5559.0	5460.7	5285.0	5203.9	5056.4	4913.9	4853.7
20°	5865.0	5777.7	5748.2	5726.1	5556.5	5432.4	5230.9	5121.6	4949.5	4789.8	4739.4
22.5°	5887.1	5797.4	5765.4	5732.3	5540.6	5380.8	5164.6	5025.7	4829.1	4638.6	4596.9
25°	5890.8	5798.6	5764.2	5716.3	5508.6	5319.4	5078.6	4910.2	4690.3	4478.9	4443.3
27.5°	5880.9	5780.2	5745.8	5688.0	5460.7	5244.4	4976.6	4778.7	4542.8	4309.3	4271.2
30°	5846.5	5744.6	5711.4	5636.4	5393.1	5152.3	4864.7	4632.5	4379.4	4131.2	4098.0
32.5°	5777.7	5678.2	5651.2	5576.2	5319.4	5045.4	4734.5	4475.2	4198.7	3961.6	3912.4
35°	5677.0	5577.4	5560.2	5481.6	5216.2	4917.6	4592.0	4303.2	4007.1	3765.0	3717.1
37.5°	5545.5	5461.9	5436.1	5358.7	5094.5	4772.6	4428.5	4116.4	3811.7	3551.2	3521.7
40°	5379.6	5301.0	5281.3	5212.5	4953.2	4611.6	4251.6	3923.5	3610.2	3368.1	3326.3
42.5°	5190.4	5116.6	5105.6	5034.3	4778.7	4433.4	4059.9	3723.2	3400.0	3166.6	3124.8
45°	4975.3	4904.1	4901.6	4834.0	4588.3	4235.6	3858.4	3520.5	3194.8	2952.8	2930.6
47.5°	4738.2	4674.3	4674.3	4611.6	4375.7	4018.1	3650.7	3309.1	2988.4	2774.6	2735.3
50°	4480.1	4419.9	4401.5	4370.8	4141.0	3781.0	3432.0	3102.7	2784.4	2580.4	2542.3
52.5°	4204.9	4153.3	4165.6	4109.0	3886.6	3534.0	3210.8	2870.4	2579.2	2393.7	2355.6
55°	3914.9	3841.2	3852.2	3831.3	3621.2	3279.6	2962.6	2678.7	2377.7	2203.2	2167.6
57.5°	3613.8	3518.0	3557.3	3545.0	3338.6	3019.1	2735.3	2461.2	2177.4	2016.4	1982.0
60°	3305.4	3213.3	3253.8	3242.8	3048.6	2758.6	2500.6	2246.2	1978.3	1832.1	1797.7
62.5°	2988.4	2903.6	2940.5	2931.9	2753.7	2492.0	2267.1	2033.6	1778.0	1646.6	1614.6
65°	2668.9	2587.8	2621.0	2614.8	2450.2	2251.1	2027.5	1813.7	1576.5	1462.2	1430.3
67.5°	2342.1	2267.1	2297.8	2297.8	2146.7	1956.2	1786.6	1591.3	1378.7	1280.4	1250.9
70°	2017.7	1947.6	1974.7	1972.2	1844.4	1689.6	1543.3	1368.9	1178.4	1097.3	1072.7
72.5°	1690.8	1629.4	1653.9	1651.5	1544.6	1445.0	1300.1	1148.9	983.0	917.9	895.8
75°	1373.8	1316.0	1339.4	1336.9	1249.7	1156.3	1059.2	933.9	791.3	745.9	723.8
77.5°	1071.5	1012.5	1032.2	1032.2	968.3	900.7	823.3	726.2	625.4	576.3	560.3
80°	781.5	753.2	743.4	744.6	701.6	657.4	618.1	524.7	451.0	417.8	406.7
82.5°	513.6	490.3	480.5	482.9	458.3	431.3	406.7	341.6	292.4	272.8	266.6
85°	272.8	255.6	247.0	253.1	248.2	233.5	221.2	176.9	146.2	138.9	135.2
87.5°	86.0	75.0	68.8	90.9	77.4	68.8	66.4	52.8	40.5	40.5	39.3
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°	5267.8	5267.8	5267.8	5267.8	5267.8	5267.8	5267.8	5267.8	5267.8	5267.8	5267.8
2.5°	5260.4	5260.4	5212.5	5201.4	5196.5	5202.7	5154.7	5146.1	5214.9	5191.6	5138.8
5°	5218.6	5216.2	5148.6	5136.3	5136.3	5128.9	5074.9	5062.6	5131.4	5111.7	5054.0
7.5°	5167.0	5159.7	5079.8	5071.2	5058.9	5054.0	4993.8	4985.2	5044.1	5031.9	4977.8
10°	5104.4	5097.0	5002.4	4996.2	4982.7	4972.9	4916.4	4910.2	4970.4	4950.8	4907.8
12.5°	5022.0	5008.5	4911.4	4905.3	4894.2	4890.5	4835.3	4832.8	4899.2	4879.5	4834.0
15°	4913.9	4902.8	4794.7	4797.2	4798.4	4798.4	4754.2	4751.7	4816.8	4808.2	4759.1
17.5°	4794.7	4780.0	4676.7	4684.1	4692.7	4702.5	4668.1	4674.3	4743.1	4732.0	4687.8
20°	4659.5	4644.8	4544.0	4564.9	4583.4	4603.0	4580.9	4598.1	4662.0	4657.1	4623.9
22.5°	4508.4	4493.7	4400.3	4432.2	4462.9	4499.8	4490.0	4509.6	4577.2	4576.0	4546.5
25°	4324.1	4327.8	4245.4	4284.8	4336.4	4388.0	4391.7	4423.6	4498.6	4491.2	4464.2
27.5°	4152.1	4157.0	4069.7	4136.1	4204.9	4271.2	4287.2	4331.5	4407.6	4401.5	4378.1
30°	3971.4	3977.6	3892.8	3983.7	4067.3	4148.4	4182.8	4243.0	4320.4	4320.4	4295.8
32.5°	3783.4	3794.5	3706.0	3827.7	3924.7	4019.3	4079.6	4142.2	4230.7	4228.2	4207.3
35°	3590.5	3602.8	3521.7	3676.5	3773.6	3889.1	3964.0	4047.6	4126.2	4127.5	4111.5
37.5°	3393.9	3408.6	3334.9	3504.5	3615.1	3751.5	3847.3	3930.9	4018.1	4023.0	4008.3
40°	3198.5	3214.5	3150.6	3314.0	3454.1	3606.5	3717.1	3815.4	3911.2	3913.7	3903.8
42.5°	3003.1	3020.3	2972.4	3132.2	3290.7	3454.1	3584.4	3696.2	3794.5	3800.6	3789.6
45°	2812.7	2827.4	2793.0	2967.5	3119.9	3298.0	3448.0	3574.5	3674.1	3682.7	3679.0
47.5°	2623.4	2637.0	2606.2	2766.0	2941.7	3130.9	3304.2	3444.3	3549.9	3559.8	3557.3
50°	2437.9	2449.0	2415.8	2582.9	2757.4	2958.9	3139.5	3301.7	3419.7	3429.5	3428.3
52.5°	2253.6	2264.6	2236.4	2412.1	2570.6	2783.2	2979.8	3155.5	3272.2	3287.0	3289.4
55°	2075.4	2080.3	2058.2	2226.6	2380.1	2602.6	2828.7	2999.5	3116.2	3128.5	3135.8
57.5°	1897.2	1898.5	1880.0	2041.0	2188.5	2415.8	2652.9	2832.3	2942.9	2955.2	2966.3
60°	1720.3	1719.1	1698.2	1854.2	1995.5	2220.4	2467.4	2645.6	2752.5	2763.5	2778.3
62.5°	1544.6	1540.9	1522.5	1666.2	1798.9	2021.3	2269.6	2441.6	2543.6	2550.9	2570.6
65°	1370.1	1366.4	1349.2	1481.9	1602.3	1814.9	2058.2	2221.6	2313.8	2323.6	2319.9
67.5°	1198.1	1190.7	1177.2	1296.4	1405.7	1602.3	1835.8	1991.9	2068.0	2076.6	2100.0
70°	1026.0	1017.4	986.7	1113.3	1209.1	1384.8	1602.3	1741.2	1805.1	1813.7	1810.0
72.5°	856.5	847.9	814.7	931.4	1012.5	1166.1	1360.3	1475.8	1531.1	1538.4	1538.4
75°	691.8	686.9	666.0	754.5	822.1	947.4	1112.0	1207.9	1250.9	1259.5	1257.0
77.5°	533.3	529.6	508.7	584.9	637.7	731.1	863.8	938.8	970.7	980.6	1001.5
80°	382.2	380.9	347.7	422.7	446.0	524.7	621.8	679.5	696.7	710.2	725.0
82.5°	244.5	245.8	212.6	276.5	286.3	336.7	396.9	432.5	444.8	455.9	466.9
85°	119.2	124.1	105.7	146.2	147.5	173.3	199.1	212.6	217.5	226.1	235.9
87.5°	30.7	35.6	19.7	41.8	36.9	47.9	55.3	59.0	57.8	63.9	67.6
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°	5267.8	5267.8	5267.8	5267.8	5267.8	5267.8	5267.8	5267.8	5267.8	5267.8	5267.8
2.5°	5156.0	5195.3	5175.6	5239.5	5264.1	5224.8	5293.6	5294.8	5245.7	5303.4	5335.4
5°	5076.1	5116.6	5104.4	5170.7	5201.4	5167.0	5250.6	5266.6	5218.6	5283.8	5335.4
7.5°	4995.0	5042.9	5026.9	5094.5	5131.4	5104.4	5194.1	5219.9	5183.0	5254.3	5323.1
10°	4925.0	4965.5	4948.3	5019.6	5051.5	5029.4	5117.9	5165.8	5131.4	5218.6	5301.0
12.5°	4856.1	4889.3	4869.7	4928.6	4959.4	4931.1	5039.2	5083.5	5058.9	5149.8	5255.5
15°	4767.7	4804.5	4777.5	4830.3	4853.7	4829.1	4917.6	4993.8	4963.0	5062.6	5179.3
17.5°	4700.1	4721.0	4684.1	4725.9	4739.4	4706.2	4795.9	4870.9	4848.8	4956.9	5092.1
20°	4625.1	4642.3	4590.7	4614.1	4612.8	4571.1	4653.4	4727.1	4712.4	4831.6	4985.2
22.5°	4541.6	4550.2	4490.0	4494.9	4492.4	4423.6	4497.3	4572.3	4566.2	4686.6	4858.6
25°	4453.1	4454.3	4376.9	4374.5	4347.4	4266.3	4331.5	4416.2	4397.8	4528.1	4708.7
27.5°	4365.9	4353.6	4260.2	4238.1	4195.1	4098.0	4155.7	4231.9	4220.9	4348.7	4548.9
30°	4272.5	4256.5	4142.2	4101.7	4039.0	3927.2	3975.1	4046.4	4052.5	4164.3	4374.5
32.5°	4184.0	4143.4	4016.9	3957.9	3879.3	3749.0	3774.8	3847.3	3857.1	3970.2	4186.5
35°	4069.7	4042.7	3886.6	3785.9	3708.5	3565.9	3593.0	3643.3	3658.1	3768.7	3988.6
37.5°	3961.6	3918.6	3752.7	3629.8	3530.3	3380.4	3387.7	3439.4	3454.1	3565.9	3783.4
40°	3849.8	3788.3	3610.2	3466.4	3352.1	3194.8	3186.2	3240.3	3251.4	3360.7	3557.3
42.5°	3730.6	3656.9	3456.6	3299.3	3167.8	3008.1	2990.9	3037.5	3049.8	3156.7	3349.7
45°	3610.2	3521.7	3299.3	3127.2	2983.5	2820.1	2802.8	2838.5	2856.9	2957.7	3143.2
47.5°	3482.4	3379.1	3137.1	2945.4	2796.7	2633.3	2612.4	2648.0	2662.8	2762.3	2938.0
50°	3348.4	3223.1	2970.0	2758.6	2611.2	2450.2	2419.5	2461.2	2474.8	2568.2	2740.2
52.5°	3201.0	3062.1	2791.8	2570.6	2423.2	2269.6	2232.7	2273.2	2289.2	2380.1	2538.7
55°	3044.9	2895.0	2612.4	2397.4	2237.6	2087.7	2057.0	2073.0	2107.4	2193.4	2340.8
57.5°	2869.2	2720.5	2423.2	2204.4	2050.8	1907.1	1881.3	1896.0	1928.0	2011.5	2144.2
60°	2682.4	2525.1	2230.2	2011.5	1862.8	1726.4	1703.1	1716.6	1751.0	1827.2	1950.1
62.5°	2498.1	2321.2	2031.2	1813.7	1678.5	1552.0	1545.8	1540.9	1572.8	1646.6	1754.7
65°	2274.5	2104.9	1823.5	1617.1	1494.2	1379.9	1355.3	1366.4	1397.1	1464.7	1577.8
67.5°	2034.9	1881.3	1610.9	1420.5	1311.1	1209.1	1188.2	1193.1	1225.1	1284.1	1382.4
70°	1780.5	1645.3	1393.4	1222.6	1130.5	1034.6	1021.1	1022.3	1053.1	1104.7	1190.7
72.5°	1513.9	1392.2	1173.5	1027.3	951.1	882.3	870.0	855.2	883.5	927.7	1001.5
75°	1242.3	1135.4	954.8	835.6	775.4	717.6	706.5	691.8	720.1	758.2	815.9
77.5°	968.3	882.3	742.2	650.0	603.3	560.3	550.5	534.5	562.8	591.0	636.5
80°	700.4	637.7	554.2	457.1	441.1	412.9	403.0	385.8	412.9	431.3	465.7
82.5°	452.2	410.4	362.5	294.9	292.4	271.6	266.6	247.0	271.6	282.6	308.4
85°	228.6	208.9	196.6	149.9	154.8	141.3	140.1	119.2	138.9	143.8	158.5
87.5°	65.1	68.8	61.4	36.9	46.7	44.2	44.2	31.9	44.2	44.2	50.4
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: P838119

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-4STD-40-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5267.8	5267.8	5267.8	5267.8	5267.8	5267.8	5267.8	5267.8
2.5°	5272.7	5293.6	5298.5	5297.3	5310.8	5384.5	5359.9	5384.5
5°	5285.0	5331.7	5344.0	5361.2	5383.3	5466.8	5439.8	5469.3
7.5°	5292.4	5362.4	5389.4	5422.6	5458.2	5551.6	5529.5	5559.0
10°	5292.4	5383.3	5422.6	5477.9	5525.8	5634.0	5613.1	5647.5
12.5°	5270.2	5387.0	5442.3	5519.7	5581.1	5697.9	5689.3	5713.8
15°	5224.8	5368.5	5444.7	5544.3	5620.4	5750.7	5747.0	5776.5
17.5°	5163.3	5336.6	5428.8	5554.1	5649.9	5796.2	5804.8	5820.7
20°	5085.9	5276.4	5396.8	5550.4	5670.8	5831.8	5842.9	5865.0
22.5°	4983.9	5203.9	5348.9	5534.4	5673.3	5846.5	5866.2	5887.1
25°	4863.5	5116.6	5286.2	5503.7	5661.0	5845.3	5872.3	5890.8
27.5°	4725.9	5003.6	5206.3	5454.6	5626.6	5825.7	5858.8	5880.9
30°	4566.2	4883.2	5115.4	5390.7	5579.9	5788.8	5824.4	5846.5
32.5°	4401.5	4750.5	5007.3	5308.3	5512.3	5729.8	5760.5	5777.7
35°	4222.1	4589.5	4877.0	5202.7	5425.1	5635.2	5658.5	5677.0
37.5°	4026.7	4415.0	4728.3	5083.5	5302.2	5503.7	5524.6	5545.5
40°	3825.2	4231.9	4561.2	4937.2	5156.0	5342.7	5364.9	5379.6
42.5°	3622.4	4029.2	4383.1	4765.2	4982.7	5162.1	5175.6	5190.4
45°	3417.2	3819.1	4182.8	4574.8	4789.8	4958.1	4963.0	4975.3
47.5°	3208.3	3601.6	3962.8	4357.3	4569.8	4723.4	4728.3	4738.2
50°	2998.2	3384.1	3728.1	4122.6	4330.2	4492.4	4470.3	4480.1
52.5°	2791.8	3155.5	3506.9	3869.4	4074.6	4218.4	4224.5	4204.9
55°	2589.0	2931.9	3255.0	3604.0	3799.4	3911.2	3907.5	3914.9
57.5°	2383.8	2705.8	3001.9	3321.4	3511.9	3617.5	3639.6	3613.8
60°	2174.9	2477.2	2742.6	3031.4	3215.7	3304.2	3330.0	3305.4
62.5°	1967.3	2245.0	2485.8	2737.7	2908.5	3017.9	3015.4	2988.4
65°	1759.6	2011.5	2226.6	2440.4	2589.0	2698.4	2693.5	2668.9
67.5°	1567.9	1775.6	1968.5	2141.8	2270.8	2345.7	2371.5	2342.1
70°	1356.6	1536.0	1705.5	1844.4	1951.3	2018.9	2043.5	2017.7
72.5°	1145.2	1297.6	1416.8	1550.7	1633.1	1689.6	1715.4	1690.8
75°	936.3	1061.7	1158.7	1263.2	1320.9	1368.9	1398.4	1373.8
77.5°	733.6	830.7	908.1	984.3	1050.6	1061.7	1087.5	1071.5
80°	540.7	610.7	667.2	717.6	765.5	770.4	791.3	781.5
82.5°	360.0	406.7	421.5	474.3	505.0	500.1	521.0	513.6
85°	190.5	218.7	244.5	260.5	277.7	261.7	280.2	272.8
87.5°	63.9	67.6	59.0	83.6	92.2	78.6	89.7	86.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)