

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: P838088

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-6LO-30-120-EDD**

Issue Date: 5/21/2024



Test Information

Test Method: LM-79-08
Report Number: P838088
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-LD4-6LO-30-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

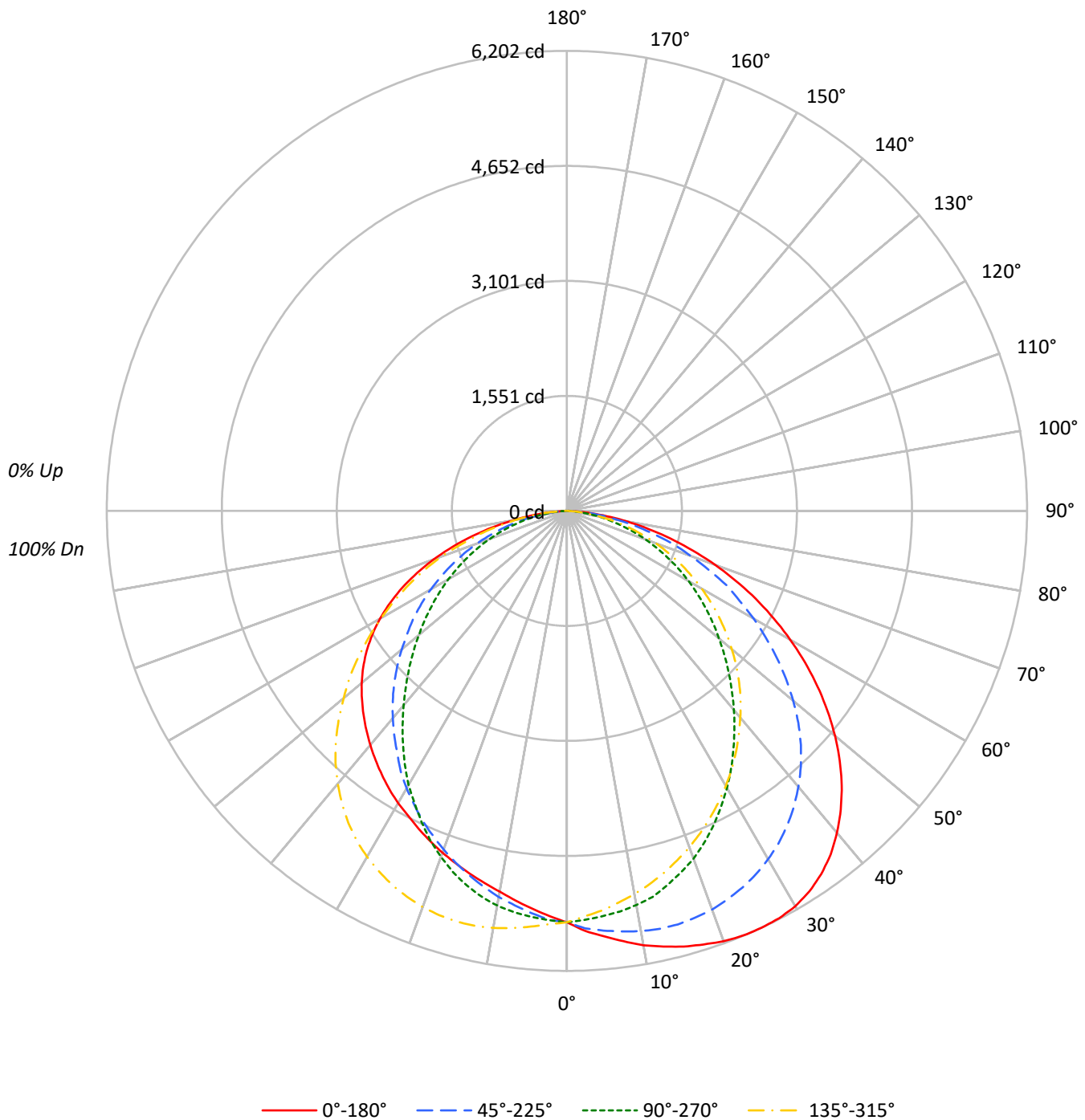
Lumens per Lamp: N/A
Luminaire Lumens: 16272.2 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 140.4
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



Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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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°	7462	7462	7462	7462
5°	7778	7409	7269	7421
10°	8124	7371	7122	7381
15°	8472	7277	7052	7279
20°	8842	7145	7021	7104
25°	9208	6945	7020	6874
30°	9564	6703	7067	6629
35°	9818	6428	7138	6326
40°	9948	6151	7237	6013
45°	9968	5871	7378	5724
50°	9874	5603	7558	5454
55°	9669	5354	7727	5205
60°	9365	5093	7830	4961
65°	8946	4794	7789	4683
70°	8357	4443	7512	4362
75°	7519	3961	6894	3941
80°	6375	3318	5794	3368
85°	4434	2197	3676	2257

Classified

Scaled Data Report

Cooper Lighting Solutions Photometric Lab

1121 Highway 74 South

Peachtree City, GA 30269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	526.6	3.2
10°-20°	1524.9	9.4
20°-30°	2336.9	14.4
30°-40°	2841.6	17.5
40°-50°	2954.0	18.2
50°-60°	2668.3	16.4
60°-70°	2028.6	12.5
70°-80°	1130.9	7.0
80°-90°	260.4	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°	4388.4	27.0
0°-40°	7230.0	44.4
0°-60°	12852.3	79.0
0°-90°	16272.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	16272.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5546	5546	5546	5546	5546	
5°	5758	5486	5382	5495	5758	555
15°	6082	5224	5062	5226	6082	1724
25°	6202	4678	4729	4630	6202	2865
35°	5977	3914	4346	3852	5977	3733
45°	5238	3086	3877	3008	5238	4033
55°	4122	2282	3294	2219	4122	3680
65°	2810	1506	2446	1471	2810	2777
75°	1446	762	1326	758	1446	1536
85°	287	142	238	146	287	362
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°	5546.3	5546.3	5546.3	5546.3	5546.3	5546.3	5546.3	5546.3	5546.3	5546.3	5546.3
2.5°	5669.2	5586.4	5587.7	5660.2	5604.6	5631.7	5554.1	5583.9	5574.8	5581.3	5517.9
5°	5758.5	5669.2	5667.9	5730.1	5667.9	5679.6	5581.3	5600.7	5572.2	5554.1	5485.5
7.5°	5853.0	5763.7	5754.6	5809.0	5727.5	5718.4	5609.7	5609.7	5558.0	5512.7	5448.0
10°	5946.1	5854.3	5842.6	5884.0	5783.1	5753.3	5621.4	5600.7	5532.1	5464.8	5395.0
12.5°	6016.0	5922.8	5913.8	5939.6	5825.8	5771.5	5621.4	5581.3	5480.4	5385.9	5331.6
15°	6082.0	5986.2	5961.6	5974.6	5843.9	5771.5	5603.3	5541.2	5411.8	5287.6	5224.2
17.5°	6128.5	6036.7	6012.1	6010.8	5853.0	5749.5	5564.4	5479.1	5323.8	5173.7	5110.3
20°	6175.1	6083.2	6052.2	6028.9	5850.4	5719.7	5507.5	5392.4	5211.3	5043.1	4990.0
22.5°	6198.4	6103.9	6070.3	6035.4	5833.6	5665.4	5437.7	5291.5	5084.5	4883.9	4839.9
25°	6202.3	6105.2	6069.0	6018.6	5799.9	5600.7	5347.1	5169.9	4938.3	4715.7	4678.2
27.5°	6191.9	6085.8	6049.6	5988.8	5749.5	5521.8	5239.7	5031.4	4783.0	4537.2	4497.1
30°	6155.7	6048.3	6013.4	5934.5	5678.3	5424.7	5122.0	4877.5	4611.0	4349.6	4314.7
32.5°	6083.2	5978.5	5950.0	5871.1	5600.7	5312.2	4984.8	4711.9	4420.8	4171.1	4119.3
35°	5977.2	5872.4	5854.3	5771.5	5492.0	5177.6	4834.8	4530.7	4218.9	3964.1	3913.6
37.5°	5838.7	5750.8	5723.6	5642.1	5363.9	5025.0	4662.7	4334.1	4013.2	3739.0	3707.9
40°	5664.1	5581.3	5560.6	5488.1	5215.1	4855.5	4476.4	4131.0	3801.1	3546.2	3502.2
42.5°	5464.8	5387.2	5375.6	5300.5	5031.4	4667.9	4274.6	3920.1	3579.8	3334.0	3290.0
45°	5238.4	5163.4	5160.8	5089.6	4830.9	4459.6	4062.4	3706.6	3363.8	3108.9	3085.6
47.5°	4988.7	4921.5	4921.5	4855.5	4607.1	4230.6	3843.8	3484.1	3146.4	2921.3	2879.9
50°	4717.0	4653.6	4634.2	4601.9	4360.0	3980.9	3613.5	3266.7	2931.7	2716.9	2676.8
52.5°	4427.2	4372.9	4385.8	4326.3	4092.2	3720.8	3380.6	3022.2	2715.6	2520.2	2480.1
55°	4121.9	4044.3	4055.9	4033.9	3812.7	3453.0	3119.2	2820.4	2503.4	2319.7	2282.2
57.5°	3804.9	3704.0	3745.4	3732.5	3515.1	3178.8	2879.9	2591.4	2292.5	2123.1	2086.8
60°	3480.2	3383.2	3425.9	3414.2	3209.8	2904.5	2632.8	2365.0	2082.9	1929.0	1892.8
62.5°	3146.4	3057.1	3096.0	3086.9	2899.3	2623.7	2387.0	2141.2	1872.1	1733.6	1700.0
65°	2810.0	2724.7	2759.6	2753.1	2579.8	2370.2	2134.7	1909.6	1659.9	1539.6	1505.9
67.5°	2465.9	2387.0	2419.3	2419.3	2260.2	2059.7	1881.1	1675.4	1451.6	1348.1	1317.0
70°	2124.3	2050.6	2079.1	2076.5	1941.9	1778.9	1625.0	1441.2	1240.7	1155.3	1129.4
72.5°	1780.2	1715.5	1741.4	1738.8	1626.3	1521.5	1368.8	1209.7	1035.0	966.4	943.1
75°	1446.4	1385.6	1410.2	1407.6	1315.8	1217.4	1115.2	983.3	833.2	785.3	762.0
77.5°	1128.2	1066.1	1086.8	1086.8	1019.5	948.3	866.8	764.6	658.5	606.8	590.0
80°	822.8	793.1	782.7	784.0	738.7	692.2	650.8	552.4	474.8	439.9	428.2
82.5°	540.8	516.2	505.9	508.4	482.6	454.1	428.2	359.7	307.9	287.2	280.7
85°	287.2	269.1	260.0	266.5	261.3	245.8	232.9	186.3	154.0	146.2	142.3
87.5°	90.6	78.9	72.5	95.7	81.5	72.5	69.9	55.6	42.7	42.7	41.4
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°	5546.3	5546.3	5546.3	5546.3	5546.3	5546.3	5546.3	5546.3	5546.3	5546.3	5546.3
2.5°	5538.6	5538.6	5488.1	5476.5	5471.3	5477.8	5427.3	5418.3	5490.7	5466.1	5410.5
5°	5494.6	5492.0	5420.8	5407.9	5407.9	5400.1	5343.2	5330.3	5402.7	5382.0	5321.2
7.5°	5440.2	5432.5	5348.4	5339.3	5326.4	5321.2	5257.8	5248.8	5310.9	5297.9	5241.0
10°	5374.3	5366.5	5266.9	5260.4	5246.2	5235.8	5176.3	5169.9	5233.2	5212.5	5167.3
12.5°	5287.6	5273.4	5171.1	5164.7	5153.0	5149.2	5090.9	5088.3	5158.2	5137.5	5089.6
15°	5173.7	5162.1	5048.2	5050.8	5052.1	5052.1	5005.5	5003.0	5071.5	5062.5	5010.7
17.5°	5048.2	5032.7	4924.0	4931.8	4940.9	4951.2	4915.0	4921.5	4993.9	4982.3	4935.7
20°	4905.9	4890.4	4784.3	4806.3	4825.7	4846.4	4823.1	4841.2	4908.5	4903.3	4868.4
22.5°	4746.8	4731.3	4632.9	4666.6	4698.9	4737.7	4727.4	4748.1	4819.2	4818.0	4786.9
25°	4552.7	4556.6	4469.9	4511.3	4565.7	4620.0	4623.9	4657.5	4736.4	4728.7	4700.2
27.5°	4371.6	4376.8	4284.9	4354.8	4427.2	4497.1	4513.9	4560.5	4640.7	4634.2	4609.7
30°	4181.4	4187.9	4098.6	4194.4	4282.3	4367.7	4403.9	4467.3	4548.9	4548.9	4523.0
32.5°	3983.5	3995.1	3902.0	4030.1	4132.3	4231.9	4295.3	4361.3	4454.4	4451.8	4429.8
35°	3780.4	3793.3	3707.9	3870.9	3973.1	4094.7	4173.7	4261.6	4344.4	4345.7	4328.9
37.5°	3573.4	3588.9	3511.3	3689.8	3806.2	3949.8	4050.8	4138.7	4230.6	4235.8	4220.2
40°	3367.6	3384.5	3317.2	3489.3	3636.8	3797.2	3913.6	4017.1	4118.0	4120.6	4110.3
42.5°	3161.9	3180.1	3129.6	3297.8	3464.7	3636.8	3773.9	3891.6	3995.1	4001.6	3989.9
45°	2961.4	2976.9	2940.7	3124.4	3284.8	3472.4	3630.3	3763.5	3868.3	3877.4	3873.5
47.5°	2762.2	2776.4	2744.1	2912.2	3097.3	3296.5	3478.9	3626.4	3737.7	3748.0	3745.4
50°	2566.8	2578.5	2543.5	2719.5	2903.2	3115.4	3305.5	3476.3	3600.5	3610.9	3609.6
52.5°	2372.8	2384.4	2354.6	2539.6	2706.5	2930.4	3137.4	3322.4	3445.3	3460.8	3463.4
55°	2185.2	2190.3	2167.0	2344.3	2506.0	2740.2	2978.2	3158.1	3281.0	3293.9	3301.7
57.5°	1997.6	1998.9	1979.4	2148.9	2304.2	2543.5	2793.2	2982.1	3098.5	3111.5	3123.1
60°	1811.3	1810.0	1788.0	1952.3	2101.1	2337.8	2597.9	2785.5	2898.0	2909.7	2925.2
62.5°	1626.3	1622.4	1603.0	1754.3	1894.1	2128.2	2389.6	2570.7	2678.1	2685.8	2706.5
65°	1442.5	1438.7	1420.5	1560.3	1687.1	1910.9	2167.0	2339.1	2436.1	2446.5	2442.6
67.5°	1261.4	1253.7	1239.4	1364.9	1480.1	1687.1	1932.9	2097.2	2177.4	2186.4	2211.0
70°	1080.3	1071.2	1038.9	1172.1	1273.1	1458.1	1687.1	1833.3	1900.5	1909.6	1905.7
72.5°	901.7	892.7	857.8	980.7	1066.1	1227.8	1432.2	1553.8	1612.0	1619.8	1619.8
75°	728.4	723.2	701.2	794.4	865.5	997.5	1170.9	1271.8	1317.0	1326.1	1323.5
77.5°	561.5	557.6	535.6	615.8	671.5	769.8	909.5	988.4	1022.1	1032.4	1054.4
80°	402.4	401.1	366.1	445.1	469.6	552.4	654.6	715.4	733.6	747.8	763.3
82.5°	257.5	258.8	223.8	291.1	301.4	354.5	417.9	455.4	468.3	480.0	491.6
85°	125.5	130.7	111.3	154.0	155.3	182.4	209.6	223.8	229.0	238.1	248.4
87.5°	32.3	37.5	20.7	44.0	38.8	50.5	58.2	62.1	60.8	67.3	71.2
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	5546.3	5546.3	5546.3	5546.3	5546.3	5546.3	5546.3	5546.3	5546.3	5546.3	5546.3
2.5°	5428.6	5470.0	5449.3	5516.6	5542.5	5501.1	5573.5	5574.8	5523.0	5583.9	5617.5
5°	5344.5	5387.2	5374.3	5444.1	5476.5	5440.2	5528.2	5545.0	5494.6	5563.2	5617.5
7.5°	5259.1	5309.6	5292.8	5363.9	5402.7	5374.3	5468.7	5495.9	5457.1	5532.1	5604.6
10°	5185.4	5228.1	5210.0	5285.0	5318.6	5295.3	5388.5	5439.0	5402.7	5494.6	5581.3
12.5°	5112.9	5147.9	5127.2	5189.3	5221.6	5191.8	5305.7	5352.3	5326.4	5422.1	5533.4
15°	5019.8	5058.6	5030.1	5085.8	5110.3	5084.5	5177.6	5257.8	5225.5	5330.3	5453.2
17.5°	4948.6	4970.6	4931.8	4975.8	4990.0	4955.1	5049.5	5128.5	5105.2	5219.0	5361.3
20°	4869.7	4887.8	4833.5	4858.1	4856.8	4812.8	4899.5	4977.1	4961.6	5087.1	5248.8
22.5°	4781.7	4790.8	4727.4	4732.6	4730.0	4657.5	4735.2	4814.1	4807.6	4934.4	5115.5
25°	4688.6	4689.9	4608.4	4605.8	4577.3	4491.9	4560.5	4649.8	4630.4	4767.5	4957.7
27.5°	4596.7	4583.8	4485.5	4462.2	4416.9	4314.7	4375.5	4455.7	4444.1	4578.6	4789.5
30°	4498.4	4481.6	4361.3	4318.6	4252.6	4134.8	4185.3	4260.3	4266.8	4384.5	4605.8
32.5°	4405.2	4362.5	4229.3	4167.2	4084.4	3947.3	3974.4	4050.8	4061.1	4180.1	4407.8
35°	4284.9	4256.5	4092.2	3986.1	3904.6	3754.5	3782.9	3836.0	3851.5	3968.0	4199.5
37.5°	4171.1	4125.8	3951.1	3821.8	3717.0	3559.1	3566.9	3621.2	3636.8	3754.5	3983.5
40°	4053.3	3988.7	3801.1	3649.7	3529.4	3363.8	3354.7	3411.6	3423.3	3538.4	3745.4
42.5°	3927.8	3850.2	3639.3	3473.7	3335.3	3167.1	3149.0	3198.2	3211.1	3323.7	3526.8
45°	3801.1	3707.9	3473.7	3292.6	3141.2	2969.2	2951.1	2988.6	3008.0	3114.1	3309.4
47.5°	3666.5	3557.8	3303.0	3101.1	2944.6	2772.5	2750.5	2788.0	2803.6	2908.4	3093.4
50°	3525.5	3393.5	3127.0	2904.5	2749.2	2579.8	2547.4	2591.4	2605.6	2704.0	2885.1
52.5°	3370.2	3224.0	2939.4	2706.5	2551.3	2389.6	2350.8	2393.5	2410.3	2506.0	2672.9
55°	3205.9	3048.1	2750.5	2524.1	2355.9	2198.1	2165.7	2182.6	2218.8	2309.4	2464.6
57.5°	3020.9	2864.4	2551.3	2321.0	2159.3	2007.9	1980.7	1996.3	2029.9	2117.9	2257.6
60°	2824.3	2658.7	2348.2	2117.9	1961.3	1817.7	1793.1	1807.4	1843.6	1923.8	2053.2
62.5°	2630.2	2443.9	2138.6	1909.6	1767.3	1634.0	1627.5	1622.4	1656.0	1733.6	1847.5
65°	2394.7	2216.2	1919.9	1702.6	1573.2	1452.9	1427.0	1438.7	1471.0	1542.2	1661.2
67.5°	2142.5	1980.7	1696.1	1495.6	1380.4	1273.1	1251.1	1256.2	1289.9	1352.0	1455.5
70°	1874.7	1732.3	1467.1	1287.3	1190.3	1089.3	1075.1	1076.4	1108.7	1163.1	1253.7
72.5°	1593.9	1465.8	1235.5	1081.6	1001.4	928.9	916.0	900.5	930.2	976.8	1054.4
75°	1308.0	1195.4	1005.2	879.8	816.4	755.6	743.9	728.4	758.1	798.2	859.1
77.5°	1019.5	928.9	781.4	684.4	635.2	590.0	579.6	562.8	592.5	622.3	670.2
80°	737.4	671.5	583.5	481.3	464.5	434.7	424.4	406.2	434.7	454.1	490.3
82.5°	476.1	432.1	381.7	310.5	307.9	285.9	280.7	260.0	285.9	297.6	324.7
85°	240.6	219.9	207.0	157.8	163.0	148.8	147.5	125.5	146.2	151.4	166.9
87.5°	68.6	72.5	64.7	38.8	49.2	46.6	46.6	33.6	46.6	46.6	53.0
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: P838088

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-6LO-30-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5546.3	5546.3	5546.3	5546.3	5546.3	5546.3	5546.3	5546.3
2.5°	5551.5	5573.5	5578.7	5577.4	5591.6	5669.2	5643.4	5669.2
5°	5564.4	5613.6	5626.5	5644.7	5667.9	5755.9	5727.5	5758.5
7.5°	5572.2	5646.0	5674.4	5709.4	5746.9	5845.2	5821.9	5853.0
10°	5572.2	5667.9	5709.4	5767.6	5818.0	5931.9	5909.9	5946.1
12.5°	5548.9	5671.8	5730.1	5811.6	5876.2	5999.2	5990.1	6016.0
15°	5501.1	5652.4	5732.6	5837.4	5917.6	6054.8	6050.9	6082.0
17.5°	5436.4	5618.8	5715.8	5847.8	5948.7	6102.7	6111.7	6128.5
20°	5354.9	5555.4	5682.2	5843.9	5970.7	6140.2	6151.8	6175.1
22.5°	5247.5	5479.1	5631.7	5827.1	5973.3	6155.7	6176.4	6198.4
25°	5120.7	5387.2	5565.7	5794.7	5960.3	6154.4	6182.9	6202.3
27.5°	4975.8	5268.2	5481.6	5743.0	5924.1	6133.7	6168.6	6191.9
30°	4807.6	5141.4	5385.9	5675.7	5875.0	6094.9	6132.4	6155.7
32.5°	4634.2	5001.7	5272.1	5589.0	5803.8	6032.8	6065.1	6083.2
35°	4445.3	4832.2	5134.9	5477.8	5711.9	5933.2	5957.8	5977.2
37.5°	4239.6	4648.5	4978.4	5352.3	5582.6	5794.7	5816.7	5838.7
40°	4027.5	4455.7	4802.4	5198.3	5428.6	5625.3	5648.5	5664.1
42.5°	3814.0	4242.2	4614.8	5017.2	5246.2	5435.1	5449.3	5464.8
45°	3597.9	4021.0	4403.9	4816.7	5043.1	5220.3	5225.5	5238.4
47.5°	3378.0	3792.0	4172.4	4587.7	4811.5	4973.2	4978.4	4988.7
50°	3156.8	3563.0	3925.3	4340.6	4559.2	4730.0	4706.7	4717.0
52.5°	2939.4	3322.4	3692.4	4074.0	4290.1	4441.5	4447.9	4427.2
55°	2725.9	3086.9	3427.2	3794.6	4000.3	4118.0	4114.1	4121.9
57.5°	2509.9	2848.9	3160.6	3497.0	3697.6	3808.8	3832.1	3804.9
60°	2290.0	2608.2	2887.7	3191.7	3385.8	3478.9	3506.1	3480.2
62.5°	2071.3	2363.7	2617.3	2882.5	3062.3	3177.5	3174.9	3146.4
65°	1852.7	2117.9	2344.3	2569.4	2725.9	2841.1	2835.9	2810.0
67.5°	1650.8	1869.5	2072.6	2255.0	2390.9	2469.8	2497.0	2465.9
70°	1428.3	1617.2	1795.7	1941.9	2054.5	2125.6	2151.5	2124.3
72.5°	1205.8	1366.2	1491.7	1632.7	1719.4	1778.9	1806.1	1780.2
75°	985.8	1117.8	1220.0	1330.0	1390.8	1441.2	1472.3	1446.4
77.5°	772.4	874.6	956.1	1036.3	1106.2	1117.8	1145.0	1128.2
80°	569.3	643.0	702.5	755.6	806.0	811.2	833.2	822.8
82.5°	379.1	428.2	443.8	499.4	531.7	526.6	548.6	540.8
85°	200.5	230.3	257.5	274.3	292.4	275.6	295.0	287.2
87.5°	67.3	71.2	62.1	88.0	97.0	82.8	94.4	90.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)