

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: P838137

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-4STD-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: P838137
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-50-120-EDD
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

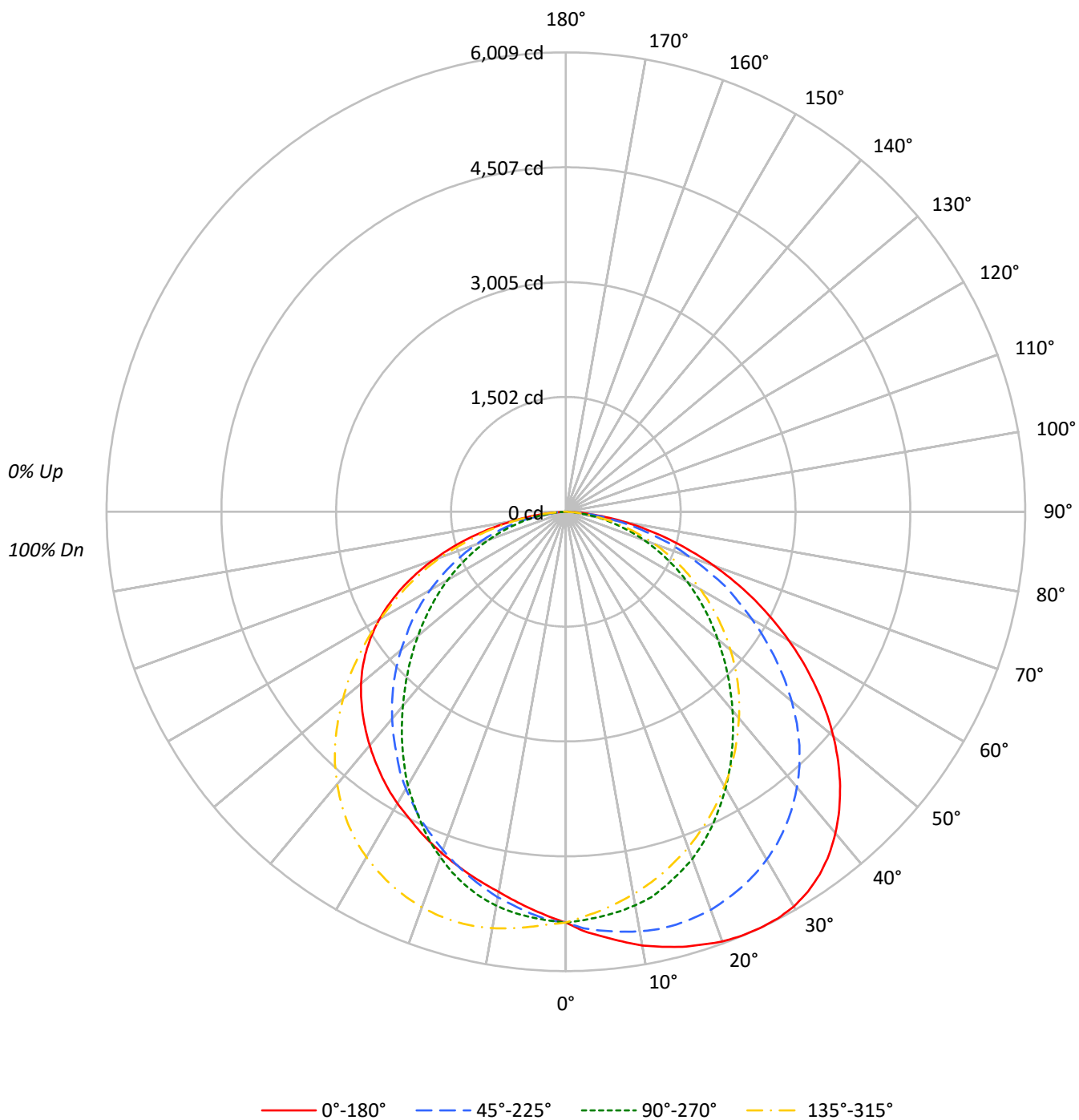
Lumens per Lamp: N/A
Luminaire Lumens: 15764.1 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
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°	7229	7229	7229	7229
5°	7535	7178	7042	7189
10°	7870	7141	6899	7151
15°	8207	7050	6832	7052
20°	8566	6922	6802	6882
25°	8920	6728	6801	6660
30°	9265	6494	6847	6422
35°	9511	6228	6915	6129
40°	9638	5959	7011	5825
45°	9656	5688	7148	5545
50°	9565	5428	7322	5284
55°	9367	5186	7485	5042
60°	9073	4934	7585	4806
65°	8667	4645	7546	4537
70°	8096	4305	7278	4225
75°	7285	3838	6679	3818
80°	6176	3215	5613	3263
85°	4295	2129	3560	2186

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	510.1	3.2
10°-20°	1477.3	9.4
20°-30°	2264.0	14.4
30°-40°	2752.8	17.5
40°-50°	2861.7	18.2
50°-60°	2585.0	16.4
60°-70°	1965.3	12.5
70°-80°	1095.6	7.0
80°-90°	252.2	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°	4251.4	27.0
0°-40°	7004.2	44.4
0°-60°	12450.9	79.0
0°-90°	15764.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15764.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5373	5373	5373	5373	5373	
5°	5579	5314	5214	5323	5579	538
15°	5892	5061	4904	5062	5892	1671
25°	6009	4532	4581	4486	6009	2775
35°	5790	3791	4210	3731	5790	3617
45°	5075	2989	3756	2914	5075	3907
55°	3993	2211	3191	2150	3993	3565
65°	2722	1459	2370	1425	2722	2690
75°	1401	738	1285	734	1401	1488
85°	278	138	231	142	278	350
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°	5373.1	5373.1	5373.1	5373.1	5373.1	5373.1	5373.1	5373.1	5373.1	5373.1	5373.1
2.5°	5492.2	5412.0	5413.2	5483.4	5429.5	5455.9	5380.7	5409.5	5400.7	5407.0	5345.6
5°	5578.7	5492.2	5491.0	5551.1	5491.0	5502.2	5407.0	5425.8	5398.2	5380.7	5314.2
7.5°	5670.2	5583.7	5574.9	5627.6	5548.6	5539.8	5434.6	5434.6	5384.4	5340.6	5277.9
10°	5760.4	5671.4	5660.2	5700.3	5602.5	5573.7	5445.8	5425.8	5359.4	5294.2	5226.5
12.5°	5828.1	5737.9	5729.1	5754.2	5643.9	5591.2	5445.8	5407.0	5309.2	5217.7	5165.1
15°	5892.0	5799.3	5775.5	5788.0	5661.4	5591.2	5428.3	5368.1	5242.8	5122.5	5061.1
17.5°	5937.2	5848.2	5824.3	5823.1	5670.2	5569.9	5390.7	5308.0	5157.6	5012.2	4950.8
20°	5982.3	5893.3	5863.2	5840.6	5667.7	5541.1	5335.5	5224.0	5048.5	4885.6	4834.2
22.5°	6004.8	5913.3	5880.7	5846.9	5651.4	5488.4	5267.9	5126.2	4925.7	4731.4	4688.8
25°	6008.6	5914.6	5879.5	5830.6	5618.8	5425.8	5180.1	5008.4	4784.1	4568.5	4532.1
27.5°	5998.6	5895.8	5860.7	5801.8	5569.9	5349.3	5076.1	4874.3	4633.7	4395.5	4356.7
30°	5963.5	5859.4	5825.6	5749.1	5501.0	5255.3	4962.0	4725.2	4467.0	4213.8	4179.9
32.5°	5893.3	5791.8	5764.2	5687.7	5425.8	5146.3	4829.2	4564.7	4282.7	4040.8	3990.7
35°	5790.5	5689.0	5671.4	5591.2	5320.5	5015.9	4683.8	4389.3	4087.2	3840.3	3791.4
37.5°	5656.4	5571.2	5544.9	5465.9	5196.4	4868.0	4517.1	4198.7	3887.9	3622.2	3592.1
40°	5487.2	5407.0	5386.9	5316.7	5052.3	4703.8	4336.6	4002.0	3682.4	3435.5	3392.8
42.5°	5294.2	5219.0	5207.7	5135.0	4874.3	4522.1	4141.1	3797.7	3468.0	3229.9	3187.3
45°	5074.8	5002.1	4999.6	4930.7	4680.0	4320.3	3935.5	3590.9	3258.7	3011.8	2989.3
47.5°	4832.9	4767.8	4767.8	4703.8	4463.2	4098.5	3723.7	3375.3	3048.2	2830.1	2790.0
50°	4569.7	4508.3	4489.5	4458.2	4223.8	3856.6	3500.6	3164.7	2840.1	2632.0	2593.2
52.5°	4289.0	4236.3	4248.9	4191.2	3964.4	3604.7	3275.0	2927.8	2630.8	2441.5	2402.7
55°	3993.2	3918.0	3929.3	3908.0	3693.6	3345.2	3021.8	2732.3	2425.2	2247.3	2210.9
57.5°	3686.1	3588.4	3628.5	3615.9	3405.4	3079.5	2790.0	2510.5	2220.9	2056.8	2021.7
60°	3371.5	3277.5	3318.9	3307.6	3109.6	2813.8	2550.6	2291.1	2017.9	1868.8	1833.7
62.5°	3048.2	2961.7	2999.3	2990.5	2808.8	2541.8	2312.4	2074.3	1813.6	1679.5	1646.9
65°	2722.3	2639.6	2673.4	2667.1	2499.2	2296.1	2068.0	1850.0	1608.1	1491.5	1458.9
67.5°	2388.9	2312.4	2343.8	2343.8	2189.6	1995.3	1822.4	1623.1	1406.3	1306.0	1275.9
70°	2058.0	1986.6	2014.1	2011.6	1881.3	1723.4	1574.2	1396.2	1202.0	1119.2	1094.2
72.5°	1724.6	1662.0	1687.0	1684.5	1575.5	1473.9	1326.1	1171.9	1002.7	936.3	913.7
75°	1401.3	1342.3	1366.2	1363.7	1274.7	1179.4	1080.4	952.6	807.2	760.8	738.2
77.5°	1092.9	1032.8	1052.8	1052.8	987.6	918.7	839.7	740.7	638.0	587.8	571.5
80°	797.1	768.3	758.3	759.5	715.7	670.5	630.4	535.2	460.0	426.1	414.9
82.5°	523.9	500.1	490.1	492.6	467.5	439.9	414.9	348.4	298.3	278.2	272.0
85°	278.2	260.7	251.9	258.2	253.2	238.1	225.6	180.5	149.1	141.6	137.9
87.5°	87.7	76.5	70.2	92.7	79.0	70.2	67.7	53.9	41.4	41.4	40.1
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°	5373.1	5373.1	5373.1	5373.1	5373.1	5373.1	5373.1	5373.1	5373.1	5373.1	5373.1
2.5°	5365.6	5365.6	5316.7	5305.5	5300.4	5306.7	5257.8	5249.1	5319.2	5295.4	5241.5
5°	5323.0	5320.5	5251.6	5239.0	5239.0	5231.5	5176.4	5163.8	5234.0	5214.0	5155.1
7.5°	5270.4	5262.8	5181.4	5172.6	5160.1	5155.1	5093.6	5084.9	5145.0	5132.5	5077.3
10°	5206.4	5198.9	5102.4	5096.1	5082.4	5072.3	5014.7	5008.4	5069.8	5049.8	5005.9
12.5°	5122.5	5108.7	5009.7	5003.4	4992.1	4988.4	4932.0	4929.5	4997.1	4977.1	4930.7
15°	5012.2	5000.9	4890.6	4893.1	4894.4	4894.4	4849.2	4846.7	4913.2	4904.4	4854.3
17.5°	4890.6	4875.6	4770.3	4777.8	4786.6	4796.6	4761.5	4767.8	4838.0	4826.7	4781.6
20°	4752.7	4737.7	4634.9	4656.2	4675.0	4695.1	4672.5	4690.1	4755.2	4750.2	4716.4
22.5°	4598.6	4583.5	4488.3	4520.9	4552.2	4589.8	4579.8	4599.8	4668.8	4667.5	4637.4
25°	4410.6	4414.3	4330.3	4370.5	4423.1	4475.7	4479.5	4512.1	4588.5	4581.0	4553.4
27.5°	4235.1	4240.1	4151.1	4218.8	4289.0	4356.7	4373.0	4418.1	4495.8	4489.5	4465.7
30°	4050.8	4057.1	3970.6	4063.4	4148.6	4231.3	4266.4	4327.8	4406.8	4406.8	4381.7
32.5°	3859.1	3870.4	3780.1	3904.2	4003.2	4099.7	4161.1	4225.1	4315.3	4312.8	4291.5
35°	3662.3	3674.8	3592.1	3750.0	3849.1	3966.9	4043.3	4128.6	4208.8	4210.0	4193.7
37.5°	3461.8	3476.8	3401.6	3574.6	3687.4	3826.5	3924.3	4009.5	4098.5	4103.5	4088.4
40°	3262.5	3278.8	3213.6	3380.3	3523.2	3678.6	3791.4	3891.7	3989.4	3991.9	3981.9
42.5°	3063.2	3080.8	3031.9	3194.8	3356.5	3523.2	3656.0	3770.1	3870.4	3876.6	3865.4
45°	2868.9	2884.0	2848.9	3026.9	3182.3	3364.0	3516.9	3646.0	3747.5	3756.3	3752.6
47.5°	2675.9	2689.7	2658.4	2821.3	3000.5	3193.6	3370.3	3513.2	3620.9	3631.0	3628.5
50°	2486.7	2497.9	2464.1	2634.6	2812.5	3018.1	3202.3	3367.8	3488.1	3498.1	3496.9
52.5°	2298.7	2309.9	2281.1	2460.3	2622.0	2838.9	3039.4	3218.6	3337.7	3352.7	3355.2
55°	2116.9	2121.9	2099.4	2271.1	2427.8	2654.6	2885.2	3059.4	3178.5	3191.0	3198.6
57.5°	1935.2	1936.4	1917.6	2081.8	2232.2	2464.1	2706.0	2889.0	3001.8	3014.3	3025.6
60°	1754.7	1753.4	1732.1	1891.3	2035.5	2264.8	2516.7	2698.5	2807.5	2818.8	2833.8
62.5°	1575.5	1571.7	1552.9	1699.6	1834.9	2061.8	2314.9	2490.4	2594.4	2602.0	2622.0
65°	1397.5	1393.7	1376.2	1511.5	1634.4	1851.2	2099.4	2266.1	2360.1	2370.1	2366.3
67.5°	1222.0	1214.5	1200.7	1322.3	1433.8	1634.4	1872.5	2031.7	2109.4	2118.2	2142.0
70°	1046.6	1037.8	1006.4	1135.5	1233.3	1412.5	1634.4	1776.0	1841.2	1850.0	1846.2
72.5°	873.6	864.8	831.0	950.0	1032.8	1189.4	1387.5	1505.3	1561.7	1569.2	1569.2
75°	705.6	700.6	679.3	769.6	838.5	966.3	1134.3	1232.0	1275.9	1284.7	1282.2
77.5°	544.0	540.2	518.9	596.6	650.5	745.7	881.1	957.6	990.2	1000.2	1021.5
80°	389.8	388.5	354.7	431.2	455.0	535.2	634.2	693.1	710.7	724.4	739.5
82.5°	249.4	250.7	216.8	282.0	292.0	343.4	404.8	441.2	453.7	465.0	476.3
85°	121.6	126.6	107.8	149.1	150.4	176.7	203.0	216.8	221.8	230.6	240.6
87.5°	31.3	36.3	20.1	42.6	37.6	48.9	56.4	60.2	58.9	65.2	68.9
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	5373.1	5373.1	5373.1	5373.1	5373.1	5373.1	5373.1	5373.1	5373.1	5373.1	5373.1
2.5°	5259.1	5299.2	5279.1	5344.3	5369.4	5329.3	5399.5	5400.7	5350.6	5409.5	5442.1
5°	5177.6	5219.0	5206.4	5274.1	5305.5	5270.4	5355.6	5371.9	5323.0	5389.4	5442.1
7.5°	5094.9	5143.8	5127.5	5196.4	5234.0	5206.4	5297.9	5324.3	5286.7	5359.4	5429.5
10°	5023.5	5064.8	5047.3	5120.0	5152.5	5130.0	5220.2	5269.1	5234.0	5323.0	5407.0
12.5°	4953.3	4987.1	4967.1	5027.2	5058.5	5029.7	5140.0	5185.1	5160.1	5252.8	5360.6
15°	4863.0	4900.6	4873.1	4926.9	4950.8	4925.7	5015.9	5093.6	5062.3	5163.8	5282.9
17.5°	4794.1	4815.4	4777.8	4820.4	4834.2	4800.4	4891.9	4968.3	4945.7	5056.0	5193.9
20°	4717.6	4735.2	4682.5	4706.4	4705.1	4662.5	4746.5	4821.7	4806.6	4928.2	5084.9
22.5°	4632.4	4641.2	4579.8	4584.8	4582.3	4512.1	4587.3	4663.7	4657.5	4780.3	4955.8
25°	4542.2	4543.4	4464.5	4461.9	4434.4	4351.7	4418.1	4504.6	4485.8	4618.6	4802.9
27.5°	4453.2	4440.6	4345.4	4322.8	4279.0	4179.9	4238.9	4316.6	4305.3	4435.6	4639.9
30°	4357.9	4341.6	4225.1	4183.7	4119.8	4005.7	4054.6	4127.3	4133.6	4247.6	4461.9
32.5°	4267.7	4226.3	4097.2	4037.1	3956.8	3824.0	3850.3	3924.3	3934.3	4049.6	4270.2
35°	4151.1	4123.5	3964.4	3861.6	3782.6	3637.2	3664.8	3716.2	3731.2	3844.0	4068.4
37.5°	4040.8	3997.0	3827.8	3702.4	3600.9	3448.0	3455.5	3508.1	3523.2	3637.2	3859.1
40°	3926.8	3864.1	3682.4	3535.7	3419.2	3258.7	3250.0	3305.1	3316.4	3427.9	3628.5
42.5°	3805.2	3730.0	3525.7	3365.3	3231.2	3068.2	3050.7	3098.3	3110.8	3219.9	3416.7
45°	3682.4	3592.1	3365.3	3189.8	3043.2	2876.5	2858.9	2895.3	2914.1	3016.8	3206.1
47.5°	3552.0	3446.7	3199.8	3004.3	2852.6	2685.9	2664.6	2701.0	2716.0	2817.5	2996.8
50°	3415.4	3287.6	3029.4	2813.8	2663.4	2499.2	2467.9	2510.5	2524.3	2619.5	2795.0
52.5°	3265.0	3123.4	2847.6	2622.0	2471.6	2314.9	2277.3	2318.7	2335.0	2427.8	2589.4
55°	3105.8	2952.9	2664.6	2445.3	2282.4	2129.5	2098.1	2114.4	2149.5	2237.2	2387.6
57.5°	2926.6	2774.9	2471.6	2248.5	2091.9	1945.2	1918.9	1933.9	1966.5	2051.7	2187.1
60°	2736.1	2575.6	2274.8	2051.7	1900.1	1761.0	1737.2	1750.9	1786.0	1863.7	1989.1
62.5°	2548.1	2367.6	2071.8	1850.0	1712.1	1583.0	1576.7	1571.7	1604.3	1679.5	1789.8
65°	2320.0	2147.0	1860.0	1649.4	1524.1	1407.5	1382.5	1393.7	1425.1	1494.0	1609.3
67.5°	2075.6	1918.9	1643.2	1448.9	1337.3	1233.3	1212.0	1217.0	1249.6	1309.8	1410.0
70°	1816.1	1678.2	1421.3	1247.1	1153.1	1055.3	1041.5	1042.8	1074.1	1126.8	1214.5
72.5°	1544.1	1420.1	1197.0	1047.8	970.1	899.9	887.4	872.3	901.2	946.3	1021.5
75°	1267.1	1158.1	973.9	852.3	790.9	732.0	720.7	705.6	734.5	773.3	832.2
77.5°	987.6	899.9	757.0	663.0	615.4	571.5	561.5	545.2	574.0	602.9	649.2
80°	714.4	650.5	565.3	466.2	450.0	421.1	411.1	393.6	421.1	439.9	475.0
82.5°	461.2	418.6	369.7	300.8	298.3	277.0	272.0	251.9	277.0	288.3	314.6
85°	233.1	213.1	200.5	152.9	157.9	144.1	142.9	121.6	141.6	146.6	161.7
87.5°	66.4	70.2	62.7	37.6	47.6	45.1	45.1	32.6	45.1	45.1	51.4
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: P838137

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-4STD-50-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	5373.1	5373.1	5373.1	5373.1	5373.1	5373.1	5373.1	5373.1
2.5°	5378.2	5399.5	5404.5	5403.2	5417.0	5492.2	5467.1	5492.2
5°	5390.7	5438.3	5450.8	5468.4	5491.0	5576.2	5548.6	5578.7
7.5°	5398.2	5469.6	5497.2	5531.1	5567.4	5662.7	5640.1	5670.2
10°	5398.2	5491.0	5531.1	5587.5	5636.3	5746.6	5725.3	5760.4
12.5°	5375.6	5494.7	5551.1	5630.1	5692.7	5811.8	5803.0	5828.1
15°	5329.3	5475.9	5553.6	5655.1	5732.9	5865.7	5861.9	5892.0
17.5°	5266.6	5443.3	5537.3	5665.2	5762.9	5912.1	5920.9	5937.2
20°	5187.6	5381.9	5504.7	5661.4	5784.2	5948.4	5959.7	5982.3
22.5°	5083.6	5308.0	5455.9	5645.1	5786.7	5963.5	5983.5	6004.8
25°	4960.8	5219.0	5391.9	5613.8	5774.2	5962.2	5989.8	6008.6
27.5°	4820.4	5103.7	5310.5	5563.7	5739.1	5942.2	5976.0	5998.6
30°	4657.5	4980.8	5217.7	5498.5	5691.5	5904.6	5940.9	5963.5
32.5°	4489.5	4845.5	5107.4	5414.5	5622.6	5844.4	5875.7	5893.3
35°	4306.5	4681.3	4974.6	5306.7	5533.6	5747.9	5771.7	5790.5
37.5°	4107.3	4503.3	4822.9	5185.1	5408.2	5613.8	5635.1	5656.4
40°	3901.7	4316.6	4652.5	5036.0	5259.1	5449.6	5472.2	5487.2
42.5°	3694.9	4109.8	4470.7	4860.5	5082.4	5265.4	5279.1	5294.2
45°	3485.6	3895.4	4266.4	4666.2	4885.6	5057.3	5062.3	5074.8
47.5°	3272.5	3673.6	4042.1	4444.4	4661.2	4817.9	4822.9	4832.9
50°	3058.2	3451.7	3802.7	4205.0	4416.8	4582.3	4559.7	4569.7
52.5°	2847.6	3218.6	3577.1	3946.8	4156.1	4302.8	4309.0	4289.0
55°	2640.8	2990.5	3320.1	3676.1	3875.4	3989.4	3985.7	3993.2
57.5°	2431.5	2759.9	3062.0	3387.8	3582.1	3689.9	3712.4	3686.1
60°	2218.4	2526.8	2797.5	3092.0	3280.0	3370.3	3396.6	3371.5
62.5°	2006.6	2289.9	2535.5	2792.5	2966.7	3078.2	3075.7	3048.2
65°	1794.8	2051.7	2271.1	2489.2	2640.8	2752.4	2747.4	2722.3
67.5°	1599.3	1811.1	2007.9	2184.6	2316.2	2392.7	2419.0	2388.9
70°	1383.7	1566.7	1739.7	1881.3	1990.3	2059.3	2084.3	2058.0
72.5°	1168.1	1323.5	1445.1	1581.7	1665.7	1723.4	1749.7	1724.6
75°	955.1	1082.9	1181.9	1288.5	1347.4	1396.2	1426.3	1401.3
77.5°	748.3	847.3	926.2	1003.9	1071.6	1082.9	1109.2	1092.9
80°	551.5	622.9	680.6	732.0	780.8	785.9	807.2	797.1
82.5°	367.2	414.9	429.9	483.8	515.1	510.1	531.4	523.9
85°	194.3	223.1	249.4	265.7	283.3	267.0	285.8	278.2
87.5°	65.2	68.9	60.2	85.2	94.0	80.2	91.5	87.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)