

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: P838197

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-6STD-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: P838197
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-LD4-6STD-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

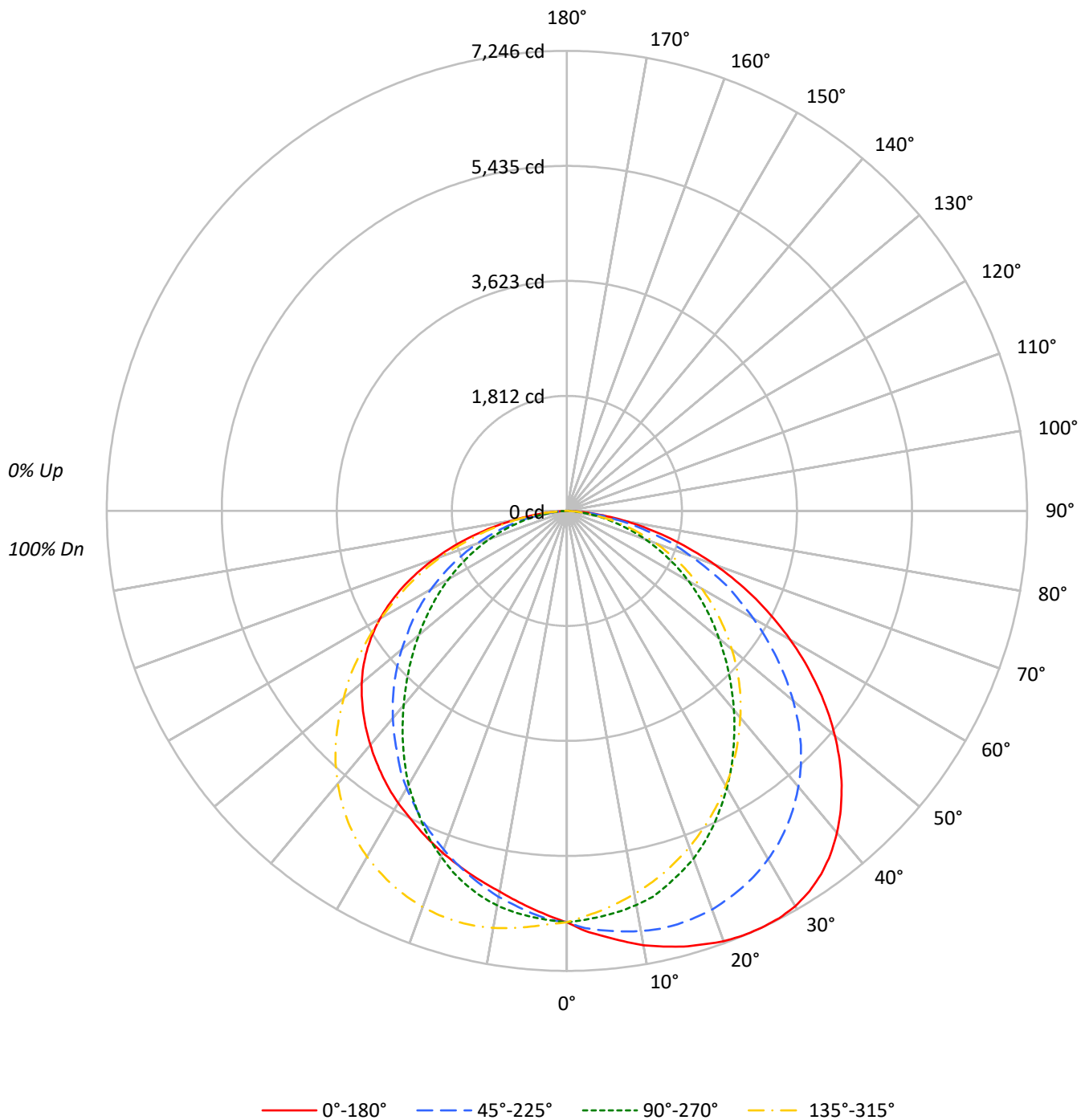
Lumens per Lamp: N/A
Luminaire Lumens: 19009.6 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 199.8
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°	8718	8718	8718	8718
5°	9086	8655	8492	8670
10°	9490	8611	8320	8623
15°	9897	8501	8238	8503
20°	10329	8347	8202	8299
25°	10757	8114	8201	8031
30°	11173	7831	8256	7744
35°	11469	7510	8339	7390
40°	11622	7186	8455	7024
45°	11645	6859	8619	6686
50°	11535	6546	8830	6372
55°	11296	6254	9027	6081
60°	10941	5950	9147	5796
65°	10451	5601	9099	5471
70°	9763	5191	8776	5096
75°	8784	4628	8054	4604
80°	7449	3877	6769	3935
85°	5179	2567	4293	2637

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	615.2	3.2
10°-20°	1781.4	9.4
20°-30°	2730.1	14.4
30°-40°	3319.6	17.5
40°-50°	3450.9	18.2
50°-60°	3117.2	16.4
60°-70°	2369.9	12.5
70°-80°	1321.2	7.0
80°-90°	304.2	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°	5126.6	27.0
0°-40°	8446.2	44.4
0°-60°	15014.3	79.0
0°-90°	19009.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	19009.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	6479	6479	6479	6479	6479	
5°	6727	6408	6287	6419	6727	649
15°	7105	6103	5914	6104	7105	2015
25°	7246	5465	5524	5409	7246	3347
35°	6983	4572	5077	4499	6983	4361
45°	6120	3605	4530	3514	6120	4712
55°	4815	2666	3848	2592	4815	4299
65°	3283	1759	2858	1718	3283	3244
75°	1690	890	1549	886	1690	1795
85°	336	166	278	171	336	422
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°	6479.4	6479.4	6479.4	6479.4	6479.4	6479.4	6479.4	6479.4	6479.4	6479.4	6479.4
2.5°	6623.0	6526.2	6527.7	6612.4	6547.4	6579.1	6488.4	6523.2	6512.6	6520.2	6446.1
5°	6727.2	6623.0	6621.4	6694.0	6621.4	6635.0	6520.2	6542.9	6509.6	6488.4	6408.3
7.5°	6837.6	6733.3	6722.7	6786.2	6691.0	6680.4	6553.4	6553.4	6493.0	6440.1	6364.5
10°	6946.4	6839.1	6825.5	6873.9	6756.0	6721.2	6567.0	6542.9	6462.7	6384.2	6302.5
12.5°	7028.0	6919.2	6908.6	6938.8	6805.8	6742.4	6567.0	6520.2	6402.3	6292.0	6228.5
15°	7105.1	6993.3	6964.5	6979.6	6827.0	6742.4	6545.9	6473.3	6322.2	6177.1	6103.0
17.5°	7159.5	7052.2	7023.5	7022.0	6837.6	6716.7	6500.5	6400.8	6219.4	6044.1	5970.0
20°	7213.9	7106.6	7070.3	7043.1	6834.6	6681.9	6434.0	6299.5	6087.9	5891.4	5829.5
22.5°	7241.1	7130.8	7091.5	7050.7	6814.9	6618.4	6352.4	6181.6	5939.8	5705.5	5654.2
25°	7245.7	7132.3	7090.0	7031.0	6775.6	6542.9	6246.6	6039.6	5769.0	5509.1	5465.2
27.5°	7233.6	7109.6	7067.3	6996.3	6716.7	6450.7	6121.2	5877.8	5587.6	5300.5	5253.6
30°	7191.2	7065.8	7025.0	6932.8	6633.5	6337.3	5983.6	5698.0	5386.6	5081.3	5040.5
32.5°	7106.6	6984.2	6950.9	6858.7	6542.9	6205.8	5823.4	5504.5	5164.5	4872.8	4812.3
35°	6982.7	6860.2	6839.1	6742.4	6415.9	6048.6	5648.1	5292.9	4928.7	4630.9	4572.0
37.5°	6821.0	6718.2	6686.4	6591.2	6266.3	5870.3	5447.1	5063.2	4688.4	4367.9	4331.7
40°	6616.9	6520.2	6496.0	6411.4	6092.5	5672.3	5229.4	4825.9	4440.5	4142.7	4091.4
42.5°	6384.2	6293.5	6279.9	6192.2	5877.8	5453.1	4993.7	4579.5	4182.0	3894.9	3843.5
45°	6119.7	6032.0	6029.0	5945.9	5643.6	5209.8	4745.8	4330.2	3929.6	3631.9	3604.7
47.5°	5828.0	5749.4	5749.4	5672.3	5382.1	4942.3	4490.4	4070.2	3675.7	3412.7	3364.4
50°	5510.6	5436.5	5413.8	5376.1	5093.4	4650.6	4221.3	3816.3	3424.8	3173.9	3127.1
52.5°	5172.0	5108.5	5123.6	5054.1	4780.6	4346.8	3949.3	3530.6	3172.4	2944.2	2897.4
55°	4815.3	4724.6	4738.2	4712.5	4454.1	4033.9	3644.0	3294.9	2924.6	2709.9	2666.1
57.5°	4445.0	4327.1	4375.5	4360.4	4106.5	3713.5	3364.4	3027.3	2678.2	2480.2	2437.9
60°	4065.7	3952.3	4002.2	3988.6	3749.8	3393.1	3075.7	2762.8	2433.4	2253.5	2211.2
62.5°	3675.7	3571.4	3616.8	3606.2	3387.0	3065.1	2788.5	2501.4	2187.0	2025.3	1986.0
65°	3282.8	3183.0	3223.8	3216.3	3013.7	2768.9	2493.8	2230.8	1939.1	1798.6	1759.3
67.5°	2880.7	2788.5	2826.3	2826.3	2640.4	2406.2	2197.6	1957.3	1695.8	1574.9	1538.6
70°	2481.7	2395.6	2428.8	2425.8	2268.6	2078.2	1898.3	1683.7	1449.4	1349.7	1319.5
72.5°	2079.7	2004.1	2034.3	2031.3	1899.8	1777.4	1599.1	1413.2	1209.1	1129.0	1101.8
75°	1689.7	1618.7	1647.4	1644.4	1537.1	1422.2	1302.8	1148.7	973.3	917.4	890.2
77.5°	1317.9	1245.4	1269.6	1269.6	1191.0	1107.9	1012.6	893.2	769.3	708.8	689.2
80°	961.3	926.5	914.4	915.9	863.0	808.6	760.2	645.4	554.7	513.9	500.3
82.5°	631.8	603.0	591.0	594.0	563.8	530.5	500.3	420.2	359.7	335.5	328.0
85°	335.5	314.4	303.8	311.3	305.3	287.2	272.1	217.6	179.9	170.8	166.3
87.5°	105.8	92.2	84.6	111.8	95.2	84.6	81.6	65.0	49.9	49.9	48.4
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°	6479.4	6479.4	6479.4	6479.4	6479.4	6479.4	6479.4	6479.4	6479.4	6479.4	6479.4
2.5°	6470.3	6470.3	6411.4	6397.8	6391.7	6399.3	6340.3	6329.7	6414.4	6385.7	6320.7
5°	6418.9	6415.9	6332.8	6317.7	6317.7	6308.6	6242.1	6227.0	6311.6	6287.4	6216.4
7.5°	6355.4	6346.4	6248.1	6237.6	6222.4	6216.4	6142.3	6131.8	6204.3	6189.2	6122.7
10°	6278.4	6269.3	6152.9	6145.4	6128.7	6116.6	6047.1	6039.6	6113.6	6089.4	6036.5
12.5°	6177.1	6160.5	6041.1	6033.5	6019.9	6015.4	5947.4	5944.3	6026.0	6001.8	5945.9
15°	6044.1	6030.5	5897.5	5900.5	5902.0	5902.0	5847.6	5844.6	5924.7	5914.1	5853.7
17.5°	5897.5	5879.3	5752.4	5761.5	5772.0	5784.1	5741.8	5749.4	5834.0	5820.4	5766.0
20°	5731.2	5713.1	5589.2	5614.9	5637.5	5661.7	5634.5	5655.7	5734.3	5728.2	5687.4
22.5°	5545.3	5527.2	5412.3	5451.6	5489.4	5534.7	5522.7	5546.8	5630.0	5628.5	5592.2
25°	5318.6	5323.2	5221.9	5270.3	5333.7	5397.2	5401.7	5441.0	5533.2	5524.2	5490.9
27.5°	5107.0	5113.1	5005.8	5087.4	5172.0	5253.6	5273.3	5327.7	5421.4	5413.8	5385.1
30°	4884.8	4892.4	4788.1	4900.0	5002.7	5102.5	5144.8	5218.9	5314.1	5314.1	5283.9
32.5°	4653.6	4667.2	4558.4	4708.0	4827.4	4943.8	5017.9	5094.9	5203.8	5200.7	5175.0
35°	4416.3	4431.4	4331.7	4522.1	4641.5	4783.6	4875.8	4978.6	5075.3	5076.8	5057.1
37.5°	4174.5	4192.6	4101.9	4310.5	4446.5	4614.3	4732.2	4835.0	4942.3	4948.3	4930.2
40°	3934.2	3953.8	3875.2	4076.2	4248.5	4436.0	4572.0	4692.9	4810.8	4813.8	4801.7
42.5°	3693.9	3715.0	3656.1	3852.6	4047.5	4248.5	4408.8	4546.3	4667.2	4674.8	4661.2
45°	3459.6	3477.7	3435.4	3650.0	3837.4	4056.6	4241.0	4396.7	4519.1	4529.7	4525.1
47.5°	3226.8	3243.5	3205.7	3402.2	3618.3	3851.0	4064.2	4236.5	4366.4	4378.5	4375.5
50°	2998.6	3012.2	2971.4	3177.0	3391.6	3639.5	3861.6	4061.1	4206.2	4218.3	4216.8
52.5°	2771.9	2785.5	2750.7	2966.9	3161.9	3423.3	3665.1	3881.3	4024.9	4043.0	4046.0
55°	2552.8	2558.8	2531.6	2738.7	2927.6	3201.1	3479.2	3689.3	3832.9	3848.0	3857.1
57.5°	2333.6	2335.1	2312.4	2510.4	2691.8	2971.4	3263.1	3483.8	3619.8	3634.9	3648.5
60°	2116.0	2114.4	2088.8	2280.7	2454.5	2731.1	3034.9	3254.0	3385.5	3399.1	3417.3
62.5°	1899.8	1895.3	1872.6	2049.5	2212.7	2486.3	2791.6	3003.2	3128.6	3137.7	3161.9
65°	1685.2	1680.7	1659.5	1822.7	1970.9	2232.3	2531.6	2732.6	2846.0	2858.1	2853.5
67.5°	1473.6	1464.5	1447.9	1594.5	1729.0	1970.9	2258.0	2450.0	2543.7	2554.3	2583.0
70°	1262.0	1251.4	1213.7	1369.3	1487.2	1703.3	1970.9	2141.7	2220.2	2230.8	2226.3
72.5°	1053.4	1042.9	1002.1	1145.6	1245.4	1434.3	1673.1	1815.2	1883.2	1892.3	1892.3
75°	850.9	844.9	819.2	928.0	1011.1	1165.3	1367.8	1485.7	1538.6	1549.2	1546.2
77.5°	655.9	651.4	625.7	719.4	784.4	899.3	1062.5	1154.7	1194.0	1206.1	1231.8
80°	470.0	468.5	427.7	519.9	548.6	645.4	764.8	835.8	857.0	873.6	891.7
82.5°	300.8	302.3	261.5	340.1	352.2	414.1	488.2	532.0	547.1	560.7	574.3
85°	146.6	152.7	130.0	179.9	181.4	213.1	244.8	261.5	267.5	278.1	290.2
87.5°	37.8	43.8	24.2	51.4	45.3	58.9	68.0	72.5	71.0	78.6	83.1
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):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	6479.4	6479.4	6479.4	6479.4	6479.4	6479.4	6479.4	6479.4	6479.4	6479.4	6479.4
2.5°	6341.8	6390.2	6366.0	6444.6	6474.8	6426.5	6511.1	6512.6	6452.2	6523.2	6562.5
5°	6243.6	6293.5	6278.4	6360.0	6397.8	6355.4	6458.2	6477.9	6418.9	6499.0	6562.5
7.5°	6143.8	6202.8	6183.1	6266.3	6311.6	6278.4	6388.7	6420.4	6375.1	6462.7	6547.4
10°	6057.7	6107.6	6086.4	6174.1	6213.4	6186.2	6295.0	6353.9	6311.6	6418.9	6520.2
12.5°	5973.1	6013.9	5989.7	6062.2	6100.0	6065.3	6198.3	6252.7	6222.4	6334.3	6464.3
15°	5864.2	5909.6	5876.3	5941.3	5970.0	5939.8	6048.6	6142.3	6104.5	6227.0	6370.6
17.5°	5781.1	5806.8	5761.5	5812.8	5829.5	5788.7	5899.0	5991.2	5964.0	6097.0	6263.2
20°	5688.9	5710.1	5646.6	5675.3	5673.8	5622.4	5723.7	5814.4	5796.2	5942.8	6131.8
22.5°	5586.1	5596.7	5522.7	5528.7	5525.7	5441.0	5531.7	5623.9	5616.4	5764.5	5976.1
25°	5477.3	5478.8	5383.6	5380.6	5347.3	5247.6	5327.7	5432.0	5409.3	5569.5	5791.7
27.5°	5370.0	5354.9	5240.0	5212.8	5159.9	5040.5	5111.6	5205.3	5191.7	5348.8	5595.2
30°	5255.1	5235.5	5094.9	5045.1	4968.0	4830.4	4889.4	4977.0	4984.6	5122.1	5380.6
32.5°	5146.3	5096.4	4940.8	4868.2	4771.5	4611.3	4643.0	4732.2	4744.3	4883.3	5149.3
35°	5005.8	4972.5	4780.6	4656.6	4561.4	4386.1	4419.3	4481.3	4499.4	4635.5	4906.0
37.5°	4872.8	4819.9	4615.8	4464.7	4342.3	4157.9	4166.9	4230.4	4248.5	4386.1	4653.6
40°	4735.2	4659.6	4440.5	4263.7	4123.1	3929.6	3919.1	3985.6	3999.2	4133.7	4375.5
42.5°	4588.6	4497.9	4251.6	4058.1	3896.4	3699.9	3678.7	3736.2	3751.3	3882.8	4120.1
45°	4440.5	4331.7	4058.1	3846.5	3669.7	3468.7	3447.5	3491.3	3514.0	3637.9	3866.2
47.5°	4283.3	4156.4	3858.6	3622.8	3439.9	3238.9	3213.2	3257.1	3275.2	3397.6	3613.8
50°	4118.6	3964.4	3653.1	3393.1	3211.7	3013.7	2975.9	3027.3	3044.0	3158.8	3370.4
52.5°	3937.2	3766.4	3433.9	3161.9	2980.5	2791.6	2746.2	2796.1	2815.7	2927.6	3122.6
55°	3745.3	3560.9	3213.2	2948.7	2752.3	2567.9	2530.1	2549.7	2592.1	2697.9	2879.2
57.5°	3529.1	3346.2	2980.5	2711.5	2522.5	2345.7	2314.0	2332.1	2371.4	2474.2	2637.4
60°	3299.4	3105.9	2743.2	2474.2	2291.3	2123.5	2094.8	2111.4	2153.7	2247.5	2398.6
62.5°	3072.7	2855.0	2498.3	2230.8	2064.6	1908.9	1901.3	1895.3	1934.6	2025.3	2158.3
65°	2797.6	2589.0	2242.9	1989.0	1837.9	1697.3	1667.1	1680.7	1718.5	1801.6	1940.6
67.5°	2502.9	2314.0	1981.4	1747.2	1612.7	1487.2	1461.5	1467.6	1506.9	1579.4	1700.3
70°	2190.0	2023.8	1713.9	1503.8	1390.5	1272.6	1256.0	1257.5	1295.3	1358.7	1464.5
72.5°	1862.0	1712.4	1443.4	1263.5	1169.8	1085.2	1070.1	1051.9	1086.7	1141.1	1231.8
75°	1528.0	1396.5	1174.4	1027.8	953.7	882.7	869.1	850.9	885.7	932.5	1003.6
77.5°	1191.0	1085.2	912.9	799.5	742.1	689.2	677.1	657.5	692.2	727.0	782.9
80°	861.5	784.4	681.6	562.2	542.6	507.8	495.7	474.6	507.8	530.5	572.8
82.5°	556.2	504.8	445.9	362.7	359.7	334.0	328.0	303.8	334.0	347.6	379.4
85°	281.1	256.9	241.8	184.4	190.4	173.8	172.3	146.6	170.8	176.8	195.0
87.5°	80.1	84.6	75.6	45.3	57.4	54.4	54.4	39.3	54.4	54.4	62.0
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: P838197

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-6STD-30-120-EDD-90

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	6479.4	6479.4	6479.4	6479.4	6479.4	6479.4	6479.4	6479.4
2.5°	6485.4	6511.1	6517.2	6515.6	6532.3	6623.0	6592.7	6623.0
5°	6500.5	6558.0	6573.1	6594.2	6621.4	6724.2	6691.0	6727.2
7.5°	6509.6	6595.8	6629.0	6669.8	6713.6	6828.5	6801.3	6837.6
10°	6509.6	6621.4	6669.8	6737.8	6796.8	6929.8	6904.1	6946.4
12.5°	6482.4	6626.0	6694.0	6789.2	6864.8	7008.4	6997.8	7028.0
15°	6426.5	6603.3	6697.0	6819.4	6913.1	7073.4	7068.8	7105.1
17.5°	6350.9	6564.0	6677.4	6831.5	6949.4	7129.3	7139.9	7159.5
20°	6255.7	6490.0	6638.1	6827.0	6975.1	7173.1	7186.7	7213.9
22.5°	6130.2	6400.8	6579.1	6807.3	6978.1	7191.2	7215.4	7241.1
25°	5982.1	6293.5	6502.0	6769.6	6963.0	7189.7	7223.0	7245.7
27.5°	5812.8	6154.4	6403.8	6709.1	6920.7	7165.6	7206.4	7233.6
30°	5616.4	6006.3	6292.0	6630.5	6863.3	7120.2	7164.0	7191.2
32.5°	5413.8	5843.1	6159.0	6529.3	6780.1	7047.7	7085.4	7106.6
35°	5193.2	5645.1	5998.7	6399.3	6672.8	6931.3	6960.0	6982.7
37.5°	4952.9	5430.5	5815.9	6252.7	6521.7	6769.6	6795.3	6821.0
40°	4705.0	5205.3	5610.3	6072.8	6341.8	6571.6	6598.8	6616.9
42.5°	4455.6	4955.9	5391.2	5861.2	6128.7	6349.4	6366.0	6384.2
45°	4203.2	4697.4	5144.8	5626.9	5891.4	6098.5	6104.5	6119.7
47.5°	3946.3	4429.9	4874.3	5359.4	5620.9	5809.8	5815.9	5828.0
50°	3687.8	4162.4	4585.6	5070.7	5326.2	5525.7	5498.5	5510.6
52.5°	3433.9	3881.3	4313.5	4759.4	5011.8	5188.6	5196.2	5172.0
55°	3184.5	3606.2	4003.7	4432.9	4673.3	4810.8	4806.3	4815.3
57.5°	2932.1	3328.1	3692.4	4085.3	4319.6	4449.6	4476.8	4445.0
60°	2675.2	3047.0	3373.4	3728.6	3955.3	4064.2	4095.9	4065.7
62.5°	2419.8	2761.3	3057.6	3367.4	3577.5	3712.0	3709.0	3675.7
65°	2164.3	2474.2	2738.7	3001.6	3184.5	3319.0	3313.0	3282.8
67.5°	1928.5	2184.0	2421.3	2634.4	2793.1	2885.3	2917.0	2880.7
70°	1668.6	1889.3	2097.8	2268.6	2400.1	2483.2	2513.5	2481.7
72.5°	1408.6	1596.0	1742.6	1907.4	2008.7	2078.2	2109.9	2079.7
75°	1151.7	1305.9	1425.3	1553.7	1624.8	1683.7	1720.0	1689.7
77.5°	902.3	1021.7	1116.9	1210.6	1292.2	1305.9	1337.6	1317.9
80°	665.0	751.2	820.7	882.7	941.6	947.6	973.3	961.3
82.5°	442.8	500.3	518.4	583.4	621.2	615.1	640.8	631.8
85°	234.3	269.0	300.8	320.4	341.6	321.9	344.6	335.5
87.5°	78.6	83.1	72.5	102.8	113.4	96.7	110.3	105.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)