

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: P838116

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-3STD-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: P838116
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-LD4-3STD-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

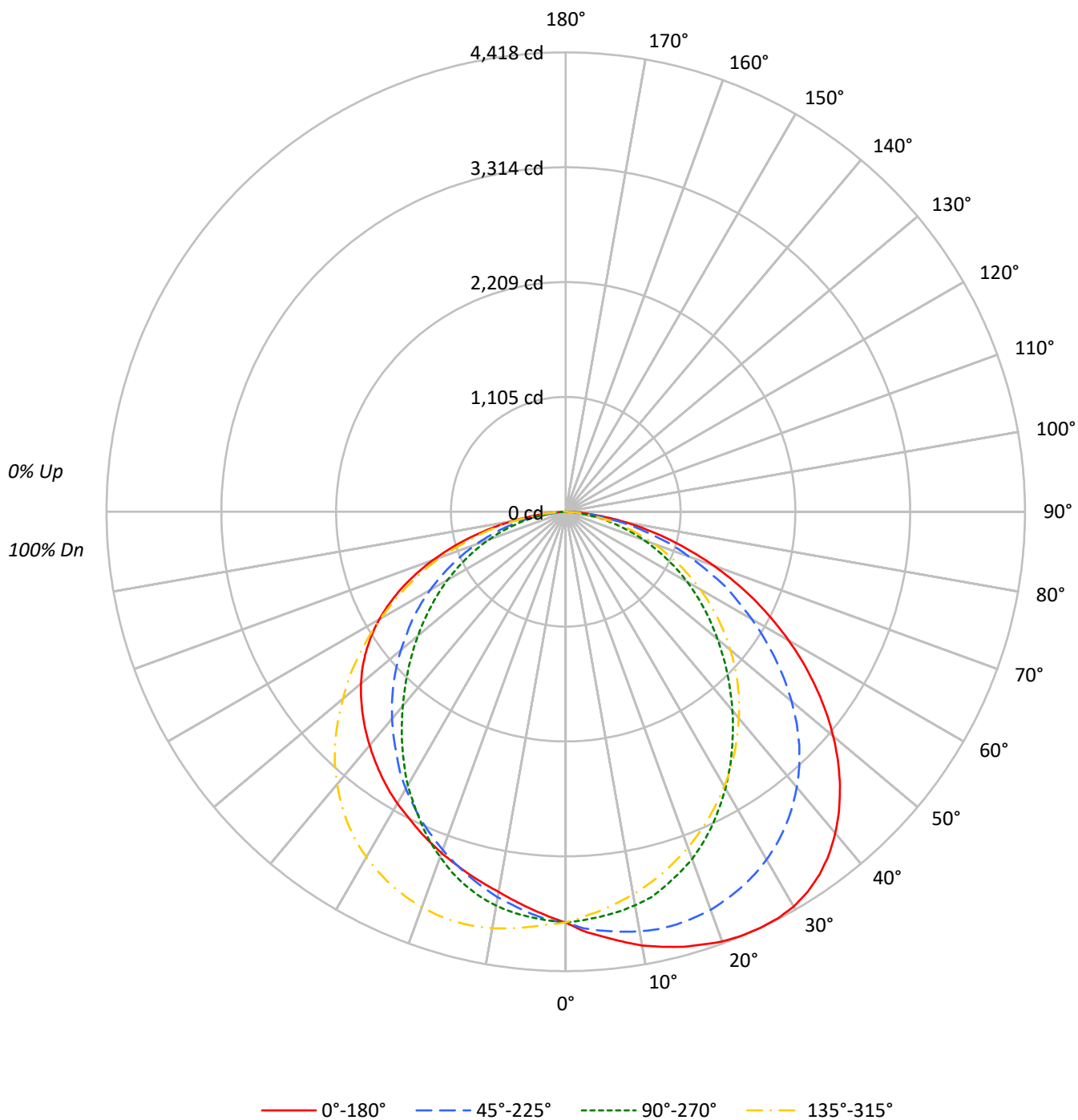
Lumens per Lamp: N/A
Luminaire Lumens: 11590.3 lumens
Efficiency: N/A
Efficacy: 116.0 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	5315	5315	5315	5315
5°	5540	5277	5178	5286
10°	5786	5250	5073	5258
15°	6034	5183	5023	5185
20°	6298	5089	5001	5060
25°	6558	4947	5000	4896
30°	6812	4775	5034	4722
35°	6993	4579	5084	4506
40°	7086	4381	5155	4283
45°	7100	4182	5255	4077
50°	7033	3991	5384	3885
55°	6887	3813	5504	3707
60°	6671	3628	5577	3534
65°	6372	3415	5548	3336
70°	5952	3165	5351	3107
75°	5356	2822	4911	2807
80°	4541	2363	4127	2399
85°	3159	1565	2618	1607

Classified

Scaled Data Report

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Peachtree City, GA 30269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.1	3.2
10°-20°	1086.1	9.4
20°-30°	1664.5	14.4
30°-40°	2024.0	17.5
40°-50°	2104.0	18.2
50°-60°	1900.6	16.4
60°-70°	1444.9	12.5
70°-80°	805.5	7.0
80°-90°	185.5	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°	3125.7	27.0
0°-40°	5149.7	44.4
0°-60°	9154.4	79.0
0°-90°	11590.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11590.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3950	3950	3950	3950	3950	
5°	4102	3907	3834	3914	4102	396
15°	4332	3721	3606	3722	4332	1228
25°	4418	3332	3368	3298	4418	2040
35°	4257	2788	3095	2743	4257	2659
45°	3731	2198	2762	2142	3731	2873
55°	2936	1626	2346	1580	2936	2621
65°	2002	1073	1743	1048	2002	1978
75°	1030	543	945	540	1030	1094
85°	205	101	170	104	205	258
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°	3950.5	3950.5	3950.5	3950.5	3950.5	3950.5	3950.5	3950.5	3950.5	3950.5	3950.5
2.5°	4038.1	3979.1	3980.0	4031.6	3992.0	4011.3	3956.1	3977.2	3970.8	3975.4	3930.3
5°	4101.7	4038.1	4037.1	4081.4	4037.1	4045.4	3975.4	3989.2	3969.0	3956.1	3907.2
7.5°	4168.9	4105.3	4098.9	4137.6	4079.5	4073.1	3995.7	3995.7	3958.8	3926.6	3880.5
10°	4235.3	4169.8	4161.6	4191.0	4119.2	4098.0	4004.0	3989.2	3940.4	3892.5	3842.7
12.5°	4285.0	4218.7	4212.2	4230.7	4149.6	4110.9	4004.0	3975.4	3903.5	3836.3	3797.6
15°	4332.0	4263.8	4246.3	4255.5	4162.5	4110.9	3991.1	3946.8	3854.7	3766.2	3721.1
17.5°	4365.2	4299.8	4282.3	4281.3	4168.9	4095.2	3963.4	3902.6	3792.0	3685.1	3640.0
20°	4398.4	4333.0	4310.8	4294.2	4167.1	4074.0	3922.9	3840.9	3711.9	3592.1	3554.3
22.5°	4415.0	4347.7	4323.7	4298.9	4155.1	4035.3	3873.1	3769.0	3621.5	3478.7	3447.4
25°	4417.7	4348.6	4322.8	4286.9	4131.1	3989.2	3808.6	3682.4	3517.4	3358.9	3332.2
27.5°	4410.4	4334.8	4309.0	4265.7	4095.2	3933.0	3732.1	3583.8	3406.8	3231.7	3203.2
30°	4384.6	4308.1	4283.2	4227.0	4044.5	3863.9	3648.3	3474.1	3284.3	3098.1	3073.2
32.5°	4333.0	4258.3	4238.0	4181.8	3989.2	3783.7	3550.6	3356.1	3148.8	2971.0	2934.1
35°	4257.4	4182.7	4169.8	4110.9	3911.8	3687.9	3443.7	3227.1	3005.1	2823.5	2787.6
37.5°	4158.8	4096.1	4076.8	4018.7	3820.6	3579.2	3321.1	3087.1	2858.5	2663.2	2641.1
40°	4034.4	3975.4	3960.7	3909.1	3714.6	3458.4	3188.4	2942.4	2707.4	2525.9	2494.5
42.5°	3892.5	3837.2	3828.9	3775.4	3583.8	3324.8	3044.7	2792.2	2549.8	2374.7	2343.4
45°	3731.2	3677.8	3675.9	3625.2	3440.9	3176.5	2893.5	2640.1	2395.9	2214.4	2197.8
47.5°	3553.4	3505.4	3505.4	3458.4	3281.5	3013.3	2737.8	2481.6	2241.1	2080.8	2051.3
50°	3359.8	3314.7	3300.9	3277.8	3105.5	2835.5	2573.8	2326.8	2088.1	1935.2	1906.6
52.5°	3153.4	3114.7	3123.9	3081.5	2914.7	2650.3	2407.9	2152.7	1934.3	1795.1	1766.5
55°	2935.9	2880.6	2888.9	2873.3	2715.7	2459.5	2221.8	2008.9	1783.1	1652.3	1625.5
57.5°	2710.2	2638.3	2667.8	2658.6	2503.7	2264.2	2051.3	1845.8	1632.9	1512.2	1486.4
60°	2478.9	2409.8	2440.2	2431.9	2286.3	2068.8	1875.3	1684.5	1483.6	1374.0	1348.2
62.5°	2241.1	2177.5	2205.2	2198.7	2065.1	1868.8	1700.2	1525.1	1333.4	1234.8	1210.9
65°	2001.5	1940.7	1965.6	1961.0	1837.5	1688.2	1520.5	1360.2	1182.3	1096.6	1072.6
67.5°	1756.4	1700.2	1723.2	1723.2	1609.9	1467.0	1339.9	1193.4	1033.9	960.2	938.1
70°	1513.1	1460.6	1480.9	1479.0	1383.2	1267.1	1157.4	1026.6	883.7	822.9	804.5
72.5°	1268.0	1221.9	1240.4	1238.5	1158.3	1083.7	975.0	861.6	737.2	688.4	671.8
75°	1030.3	986.9	1004.4	1002.6	937.2	867.1	794.3	700.3	593.5	559.4	542.8
77.5°	803.6	759.3	774.1	774.1	726.2	675.5	617.4	544.6	469.0	432.2	420.2
80°	586.1	564.9	557.5	558.4	526.2	493.0	463.5	393.5	338.2	313.3	305.0
82.5°	385.2	367.7	360.3	362.2	343.7	323.5	305.0	256.2	219.3	204.6	200.0
85°	204.6	191.7	185.2	189.8	186.1	175.1	165.9	132.7	109.7	104.1	101.4
87.5°	64.5	56.2	51.6	68.2	58.1	51.6	49.8	39.6	30.4	30.4	29.5
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°	3950.5	3950.5	3950.5	3950.5	3950.5	3950.5	3950.5	3950.5	3950.5	3950.5	3950.5
2.5°	3945.0	3945.0	3909.1	3900.8	3897.1	3901.7	3865.7	3859.3	3910.9	3893.4	3853.8
5°	3913.7	3911.8	3861.1	3851.9	3851.9	3846.4	3805.8	3796.6	3848.2	3833.5	3790.2
7.5°	3875.0	3869.4	3809.5	3803.1	3793.9	3790.2	3745.0	3738.6	3782.8	3773.6	3733.0
10°	3828.0	3822.4	3751.5	3746.9	3736.7	3729.4	3687.0	3682.4	3727.5	3712.8	3680.5
12.5°	3766.2	3756.1	3683.3	3678.7	3670.4	3667.6	3626.2	3624.3	3674.1	3659.3	3625.2
15°	3685.1	3676.8	3595.7	3597.6	3598.5	3598.5	3565.3	3563.5	3612.3	3605.9	3569.0
17.5°	3595.7	3584.7	3507.3	3512.8	3519.3	3526.6	3500.8	3505.4	3557.0	3548.7	3515.6
20°	3494.4	3483.3	3407.8	3423.4	3437.2	3452.0	3435.4	3448.3	3496.2	3492.5	3467.7
22.5°	3381.0	3370.0	3299.9	3323.9	3346.9	3374.6	3367.2	3382.0	3432.6	3431.7	3409.6
25°	3242.8	3245.6	3183.8	3213.3	3252.0	3290.7	3293.5	3317.4	3373.7	3368.1	3347.9
27.5°	3113.8	3117.5	3052.0	3101.8	3153.4	3203.2	3215.2	3248.3	3305.5	3300.9	3283.3
30°	2978.3	2982.9	2919.4	2987.5	3050.2	3111.0	3136.8	3182.0	3240.0	3240.0	3221.6
32.5°	2837.3	2845.6	2779.3	2870.5	2943.3	3014.3	3059.4	3106.4	3172.8	3170.9	3155.3
35°	2692.7	2701.9	2641.1	2757.2	2830.0	2916.6	2972.8	3035.5	3094.4	3095.4	3083.4
37.5°	2545.2	2556.3	2501.0	2628.2	2711.1	2813.4	2885.3	2947.9	3013.3	3017.0	3006.0
40°	2398.7	2410.7	2362.8	2485.3	2590.4	2704.6	2787.6	2861.3	2933.2	2935.0	2927.6
42.5°	2252.2	2265.1	2229.1	2348.9	2467.8	2590.4	2688.1	2771.9	2845.6	2850.2	2841.9
45°	2109.3	2120.4	2094.6	2225.5	2339.7	2473.3	2585.8	2680.7	2755.3	2761.8	2759.0
47.5°	1967.4	1977.6	1954.5	2074.3	2206.1	2348.0	2477.9	2583.0	2662.2	2669.6	2667.8
50°	1828.3	1836.6	1811.7	1937.0	2067.9	2219.0	2354.5	2476.1	2564.6	2571.9	2571.0
52.5°	1690.1	1698.3	1677.2	1808.9	1927.8	2087.2	2234.7	2366.4	2454.0	2465.0	2466.9
55°	1556.4	1560.1	1543.5	1669.8	1785.0	1951.8	2121.3	2249.4	2337.0	2346.2	2351.7
57.5°	1422.8	1423.7	1409.9	1530.6	1641.2	1811.7	1989.5	2124.1	2207.0	2216.2	2224.5
60°	1290.1	1289.2	1273.5	1390.6	1496.5	1665.2	1850.4	1984.0	2064.2	2072.5	2083.5
62.5°	1158.3	1155.6	1141.8	1249.6	1349.1	1515.9	1702.0	1831.0	1907.5	1913.1	1927.8
65°	1027.5	1024.7	1011.8	1111.3	1201.7	1361.1	1543.5	1666.1	1735.2	1742.6	1739.8
67.5°	898.5	892.9	882.8	972.2	1054.2	1201.7	1376.7	1493.8	1550.9	1557.4	1574.9
70°	769.5	763.0	740.0	834.9	906.8	1038.5	1201.7	1305.8	1353.7	1360.2	1357.4
72.5°	642.3	635.8	611.0	698.5	759.3	874.5	1020.1	1106.7	1148.2	1153.7	1153.7
75°	518.8	515.1	499.5	565.8	616.5	710.5	834.0	905.8	938.1	944.6	942.7
77.5°	399.9	397.2	381.5	438.6	478.3	548.3	647.8	704.0	728.0	735.4	751.0
80°	286.6	285.7	260.8	317.0	334.5	393.5	466.3	509.6	522.5	532.6	543.7
82.5°	183.4	184.3	159.4	207.3	214.7	252.5	297.6	324.4	333.6	341.9	350.2
85°	89.4	93.1	79.3	109.7	110.6	129.9	149.3	159.4	163.1	169.6	176.9
87.5°	23.0	26.7	14.7	31.3	27.6	35.9	41.5	44.2	43.3	47.9	50.7
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°	3950.5	3950.5	3950.5	3950.5	3950.5	3950.5	3950.5	3950.5	3950.5	3950.5	3950.5
2.5°	3866.7	3896.2	3881.4	3929.3	3947.8	3918.3	3969.9	3970.8	3933.9	3977.2	4001.2
5°	3806.8	3837.2	3828.0	3877.7	3900.8	3875.0	3937.6	3949.6	3913.7	3962.5	4001.2
7.5°	3745.9	3781.9	3769.9	3820.6	3848.2	3828.0	3895.2	3914.6	3886.9	3940.4	3992.0
10°	3693.4	3723.8	3710.9	3764.4	3788.3	3771.8	3838.1	3874.0	3848.2	3913.7	3975.4
12.5°	3641.8	3666.7	3652.0	3696.2	3719.2	3698.0	3779.1	3812.3	3793.9	3862.1	3941.3
15°	3575.5	3603.1	3582.8	3622.5	3640.0	3621.5	3687.9	3745.0	3722.0	3796.6	3884.2
17.5°	3524.8	3540.5	3512.8	3544.1	3554.3	3529.4	3596.7	3652.9	3636.3	3717.4	3818.7
20°	3468.6	3481.5	3442.8	3460.3	3459.4	3428.0	3489.8	3545.1	3534.0	3623.4	3738.6
22.5°	3405.9	3412.4	3367.2	3370.9	3369.1	3317.4	3372.7	3428.9	3424.3	3514.6	3643.7
25°	3339.6	3340.5	3282.4	3280.6	3260.3	3199.5	3248.3	3311.9	3298.1	3395.8	3531.2
27.5°	3274.1	3264.9	3194.9	3178.3	3146.0	3073.2	3116.6	3173.7	3165.4	3261.2	3411.4
30°	3204.1	3192.1	3106.4	3076.0	3029.0	2945.2	2981.1	3034.5	3039.1	3123.0	3280.6
32.5°	3137.8	3107.3	3012.4	2968.2	2909.2	2811.5	2830.9	2885.3	2892.6	2977.4	3139.6
35°	3052.0	3031.8	2914.7	2839.2	2781.1	2674.2	2694.5	2732.3	2743.3	2826.3	2991.2
37.5°	2971.0	2938.7	2814.3	2722.1	2647.5	2535.1	2540.6	2579.3	2590.4	2674.2	2837.3
40°	2887.1	2841.0	2707.4	2599.6	2513.9	2395.9	2389.5	2430.0	2438.3	2520.3	2667.8
42.5°	2797.7	2742.4	2592.2	2474.3	2375.7	2255.9	2243.0	2278.0	2287.2	2367.4	2512.0
45°	2707.4	2641.1	2474.3	2345.2	2237.4	2114.9	2102.0	2128.7	2142.5	2218.1	2357.2
47.5°	2611.6	2534.2	2352.6	2208.9	2097.4	1974.8	1959.1	1985.9	1996.9	2071.6	2203.3
50°	2511.1	2417.1	2227.3	2068.8	1958.2	1837.5	1814.5	1845.8	1855.9	1926.0	2055.0
52.5°	2400.5	2296.4	2093.7	1927.8	1817.2	1702.0	1674.4	1704.8	1716.8	1785.0	1903.8
55°	2283.5	2171.1	1959.1	1797.9	1678.1	1565.6	1542.6	1554.6	1580.4	1644.9	1755.5
57.5°	2151.7	2040.2	1817.2	1653.2	1538.0	1430.2	1410.8	1421.9	1445.9	1508.5	1608.0
60°	2011.7	1893.7	1672.5	1508.5	1397.0	1294.7	1277.2	1287.4	1313.2	1370.3	1462.4
62.5°	1873.4	1740.7	1523.3	1360.2	1258.8	1163.9	1159.3	1155.6	1179.5	1234.8	1315.9
65°	1705.7	1578.6	1367.5	1212.7	1120.6	1034.9	1016.4	1024.7	1047.8	1098.4	1183.2
67.5°	1526.0	1410.8	1208.1	1065.3	983.3	906.8	891.1	894.8	918.7	963.0	1036.7
70°	1335.3	1233.9	1045.0	916.9	847.8	775.9	765.8	766.7	789.7	828.4	892.9
72.5°	1135.3	1044.1	880.0	770.4	713.3	661.6	652.4	641.4	662.6	695.7	751.0
75°	931.6	851.5	716.0	626.6	581.5	538.2	529.9	518.8	540.0	568.6	611.9
77.5°	726.2	661.6	556.6	487.5	452.5	420.2	412.8	400.9	422.1	443.2	477.3
80°	525.3	478.3	415.6	342.8	330.8	309.6	302.3	289.4	309.6	323.5	349.3
82.5°	339.1	307.8	271.8	221.2	219.3	203.7	200.0	185.2	203.7	211.9	231.3
85°	171.4	156.7	147.4	112.4	116.1	106.0	105.1	89.4	104.1	107.8	118.9
87.5°	48.8	51.6	46.1	27.6	35.0	33.2	33.2	24.0	33.2	33.2	37.8
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: P838116

CATALOG NUMBER: ORLG-24-4-INS-ASY2R-LD4-3STD-40-120-EDD

CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	3950.5	3950.5	3950.5	3950.5	3950.5	3950.5	3950.5	3950.5
2.5°	3954.2	3969.9	3973.6	3972.6	3982.8	4038.1	4019.6	4038.1
5°	3963.4	3998.4	4007.7	4020.6	4037.1	4099.8	4079.5	4101.7
7.5°	3969.0	4021.5	4041.8	4066.6	4093.4	4163.4	4146.8	4168.9
10°	3969.0	4037.1	4066.6	4108.1	4144.0	4225.1	4209.5	4235.3
12.5°	3952.4	4039.9	4081.4	4139.4	4185.5	4273.1	4266.6	4285.0
15°	3918.3	4026.1	4083.2	4157.9	4215.0	4312.7	4309.9	4332.0
17.5°	3872.2	4002.1	4071.2	4165.2	4237.1	4346.8	4353.2	4365.2
20°	3814.1	3957.0	4047.3	4162.5	4252.8	4373.5	4381.8	4398.4
22.5°	3737.7	3902.6	4011.3	4150.5	4254.6	4384.6	4399.3	4415.0
25°	3647.3	3837.2	3964.3	4127.5	4245.4	4383.6	4403.9	4417.7
27.5°	3544.1	3752.4	3904.4	4090.6	4219.6	4368.9	4393.8	4410.4
30°	3424.3	3662.1	3836.3	4042.7	4184.6	4341.2	4368.0	4384.6
32.5°	3300.9	3562.6	3755.2	3980.9	4133.9	4297.0	4320.1	4333.0
35°	3166.3	3441.8	3657.5	3901.7	4068.5	4226.1	4243.6	4257.4
37.5°	3019.8	3311.0	3546.0	3812.3	3976.3	4127.5	4143.1	4158.8
40°	2868.7	3173.7	3420.7	3702.6	3866.7	4006.7	4023.3	4034.4
42.5°	2716.6	3021.6	3287.0	3573.6	3736.7	3871.3	3881.4	3892.5
45°	2562.7	2864.1	3136.8	3430.8	3592.1	3718.3	3722.0	3731.2
47.5°	2406.1	2701.0	2971.9	3267.7	3427.1	3542.3	3546.0	3553.4
50°	2248.5	2537.8	2795.9	3091.7	3247.4	3369.1	3352.5	3359.8
52.5°	2093.7	2366.4	2630.0	2901.8	3055.7	3163.6	3168.2	3153.4
55°	1941.6	2198.7	2441.1	2702.8	2849.3	2933.2	2930.4	2935.9
57.5°	1787.7	2029.2	2251.3	2490.8	2633.7	2712.9	2729.5	2710.2
60°	1631.1	1857.8	2056.8	2273.4	2411.6	2477.9	2497.3	2478.9
62.5°	1475.3	1683.6	1864.2	2053.1	2181.2	2263.2	2261.4	2241.1
65°	1319.6	1508.5	1669.8	1830.1	1941.6	2023.6	2020.0	2001.5
67.5°	1175.9	1331.6	1476.3	1606.2	1703.0	1759.2	1778.5	1756.4
70°	1017.3	1151.9	1279.1	1383.2	1463.4	1514.0	1532.5	1513.1
72.5°	858.8	973.1	1062.5	1162.9	1224.7	1267.1	1286.4	1268.0
75°	702.2	796.2	869.0	947.3	990.6	1026.6	1048.7	1030.3
77.5°	550.1	622.9	681.0	738.1	787.9	796.2	815.5	803.6
80°	405.5	458.0	500.4	538.2	574.1	577.8	593.5	586.1
82.5°	270.0	305.0	316.1	355.7	378.7	375.1	390.7	385.2
85°	142.8	164.0	183.4	195.4	208.3	196.3	210.1	204.6
87.5°	47.9	50.7	44.2	62.7	69.1	59.0	67.3	64.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)