

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: PORTFOLIO

Report Number: P859301

Luminaire Tested: **LD4C60D010 EU4609030 4LBSWNH**

Issue Date: 2/18/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P859301  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251634)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C60D010 EU4609030 4LBSWNH  
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LCSW TRIM WITH H FINISH, DIM TO WARM  
Light Source: -  
Ballast/Driver: -

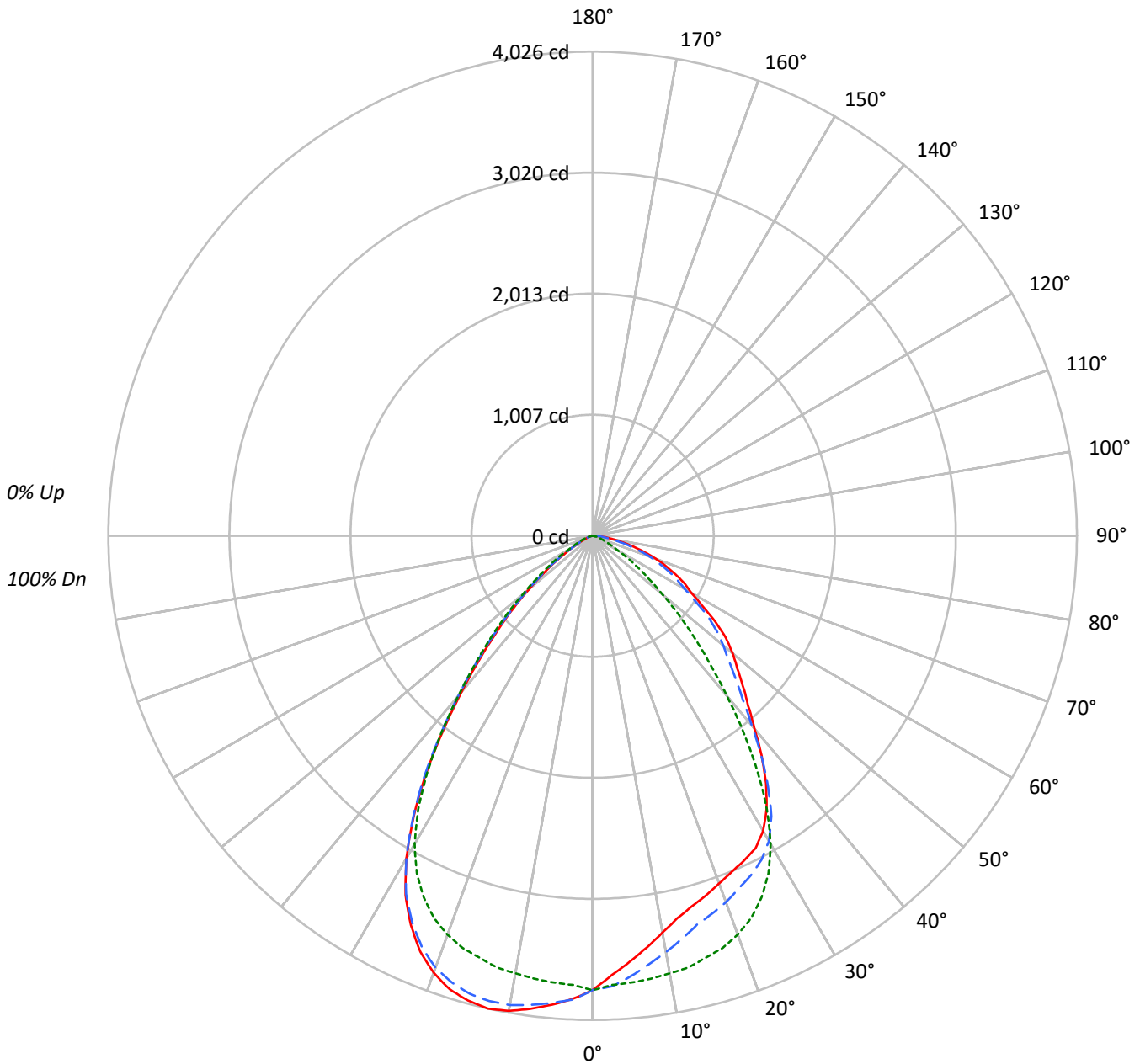
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6622.1 lumens  
Efficiency: N/A  
Efficacy: 67.9 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.15  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 97.5  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	111	108	104	101	109	106	103	100	101	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	90	86	92	88	84	89	85	82	86	83	81	79																			
3	96	88	81	76	94	86	80	75	83	78	74	81	76	73	78	75	72	70																			
4	90	80	72	67	88	78	72	66	76	70	66	74	69	65	72	68	64	62																			
5	83	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56																			
6	78	67	59	53	76	66	59	53	64	58	53	62	57	52	61	56	52	50																			
7	73	61	54	48	71	61	53	48	59	53	48	58	52	48	56	51	47	46																			
8	68	57	49	44	67	56	49	44	55	48	44	54	48	43	52	47	43	42																			
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38																			
10	61	49	42	37	59	48	42	37	47	41	37	47	41	37	46	40	37	35																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	464116	464116	464116
5°	438264	459895	482698
10°	417833	460946	500417
15°	405562	461919	508965
20°	402228	461453	505367
25°	403855	450052	484361
30°	401929	419874	439224
35°	376741	358504	362133
40°	335711	277944	271737
45°	307035	207221	194520
50°	290301	145160	131189
55°	266965	98013	82355
60°	233250	57422	45431
65°	220784	36773	25465
70°	201152	26257	15733
75°	166419	18512	11582
80°	130814	10400	6863
85°	116714	6907	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	356.9	5.4
10°-20°	1024.0	15.5
20°-30°	1518.0	22.9
30°-40°	1520.1	23.0
40°-50°	1062.4	16.0
50°-60°	632.1	9.5
60°-70°	329.9	5.0
70°-80°	146.7	2.2
80°-90°	32.0	0.5
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°	2898.9	43.8
0°-40°	4419.0	66.7
0°-60°	6113.5	92.3
0°-90°	6622.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6622.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3778	3778	3778	3778	3778	
5°	3554	3676	3729	3900	3914	333
15°	3189	3349	3632	3943	4002	903
25°	2979	3116	3320	3549	3573	1373
35°	2512	2541	2390	2434	2415	1557
45°	1767	1680	1193	1154	1120	1372
55°	1246	1168	458	399	384	1106
65°	760	696	126	93	88	751
75°	351	307	39	24	24	379
85°	83	63	5	5	0	93
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3777.8	3777.8	3777.8	3777.8	3777.8	3777.8	3777.8	3777.8	3777.8	3777.8	3777.8
2.5°	3656.0	3700.0	3656.0	3670.8	3729.2	3675.6	3704.6	3704.6	3690.2	3724.3	3748.7
5°	3553.8	3597.6	3553.8	3573.2	3636.6	3583.0	3617.2	3607.4	3612.4	3641.6	3675.6
7.5°	3451.7	3485.6	3446.8	3471.2	3529.6	3485.6	3514.8	3514.8	3519.9	3563.5	3592.9
10°	3349.4	3378.5	3349.4	3368.9	3432.2	3393.3	3412.7	3417.5	3432.2	3471.2	3514.8
12.5°	3256.8	3281.2	3252.1	3281.2	3334.7	3295.7	3320.1	3325.0	3339.6	3383.6	3432.2
15°	3188.7	3213.1	3183.9	3208.1	3256.8	3227.7	3247.1	3256.8	3266.6	3305.5	3349.4
17.5°	3135.2	3154.7	3130.3	3159.4	3198.4	3164.5	3193.6	3193.6	3208.1	3247.1	3295.7
20°	3076.6	3096.2	3076.6	3101.0	3145.0	3115.8	3140.0	3140.0	3154.7	3198.4	3242.3
22.5°	3023.3	3033.0	3023.3	3042.8	3086.5	3062.2	3076.6	3081.7	3096.2	3135.2	3174.2
25°	2979.3	2998.8	2989.1	3008.6	3037.8	3013.5	3028.0	3033.0	3047.5	3081.7	3115.8
27.5°	2930.7	2940.5	2930.7	2955.1	2979.3	2959.8	2974.6	2969.6	2979.3	3008.6	3037.8
30°	2833.3	2843.2	2843.2	2857.6	2877.4	2867.5	2882.0	2867.5	2877.4	2901.6	2930.7
32.5°	2692.1	2697.2	2701.9	2716.5	2731.1	2716.5	2726.3	2726.3	2726.3	2745.8	2765.3
35°	2512.0	2521.7	2517.1	2526.7	2541.3	2536.4	2536.4	2531.5	2521.7	2531.5	2541.3
37.5°	2307.6	2292.9	2292.9	2307.6	2317.3	2298.0	2307.6	2298.0	2298.0	2302.6	2302.6
40°	2093.3	2078.9	2093.3	2098.3	2103.1	2093.3	2088.5	2078.9	2064.1	2069.1	2059.3
42.5°	1913.3	1903.5	1908.4	1908.4	1913.3	1903.5	1908.4	1888.9	1874.2	1864.5	1850.0
45°	1767.2	1752.6	1767.2	1757.5	1757.5	1752.6	1747.7	1738.0	1718.6	1704.0	1679.6
47.5°	1630.9	1630.9	1635.7	1635.7	1635.7	1626.0	1626.0	1606.5	1587.0	1567.5	1533.5
50°	1518.9	1509.1	1528.6	1528.6	1514.2	1509.1	1514.2	1489.7	1475.2	1450.7	1416.6
52.5°	1397.0	1397.0	1402.1	1402.1	1397.0	1387.4	1392.3	1372.8	1358.3	1333.9	1299.8
55°	1246.4	1236.6	1251.1	1251.1	1246.4	1241.4	1246.4	1231.6	1217.2	1197.8	1168.3
57.5°	1076.0	1070.9	1080.8	1085.7	1076.0	1076.0	1080.8	1066.2	1061.2	1041.8	1012.5
60°	949.3	944.5	954.2	959.1	949.3	949.3	949.3	929.7	920.1	900.6	881.1
62.5°	861.7	856.9	866.6	861.7	856.9	851.9	856.9	837.5	827.6	808.2	788.7
65°	759.5	764.3	769.2	769.2	764.3	759.5	759.5	749.9	740.1	720.6	696.2
67.5°	662.0	662.0	667.0	671.8	667.0	667.0	667.0	652.2	642.6	628.0	598.8
70°	560.0	555.0	569.6	569.6	560.0	564.6	560.0	555.0	545.2	525.8	501.5
72.5°	452.7	452.7	457.6	457.6	452.7	452.7	452.7	447.9	433.1	423.5	399.3
75°	350.6	350.6	355.4	360.3	350.6	350.6	355.4	345.5	335.9	321.3	306.7
77.5°	262.9	258.1	262.9	262.9	258.1	258.1	258.1	253.3	248.2	233.7	219.1
80°	184.9	180.1	184.9	184.9	184.9	180.1	180.1	175.3	175.3	165.4	151.0
82.5°	126.5	121.8	126.5	126.5	126.5	121.8	121.8	121.8	116.8	112.1	102.2
85°	82.8	77.9	77.9	82.8	77.9	77.9	77.9	77.9	73.1	68.1	63.4
87.5°	39.0	39.0	39.0	39.0	39.0	39.0	39.0	34.2	34.2	34.2	29.2
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3777.8	3777.8	3777.8	3777.8	3777.8	3777.8	3777.8	3777.8	3777.8	3777.8	3777.8
2.5°	3729.2	3719.4	3748.7	3738.8	3743.6	3719.4	3758.4	3738.8	3763.2	3738.8	3787.5
5°	3665.9	3656.0	3700.0	3695.0	3700.0	3680.4	3724.3	3719.4	3748.7	3729.2	3782.6
7.5°	3597.6	3588.0	3636.6	3641.6	3651.3	3631.8	3690.2	3690.2	3719.4	3714.5	3772.9
10°	3519.9	3524.6	3573.2	3583.0	3602.7	3592.9	3646.4	3661.1	3700.0	3695.0	3768.1
12.5°	3446.8	3446.8	3510.1	3529.6	3544.1	3539.2	3602.7	3622.1	3665.9	3675.6	3743.6
15°	3373.7	3378.5	3436.9	3466.2	3485.6	3481.0	3549.0	3573.2	3626.9	3631.8	3714.5
17.5°	3315.3	3310.5	3373.7	3398.1	3427.3	3422.6	3495.4	3524.6	3578.2	3592.9	3670.8
20°	3266.6	3261.9	3320.1	3349.4	3368.9	3364.1	3436.9	3471.2	3519.9	3529.6	3607.4
22.5°	3208.1	3198.4	3256.8	3281.2	3300.8	3295.7	3359.1	3383.6	3432.2	3442.0	3514.8
25°	3140.0	3130.3	3183.9	3198.4	3213.1	3203.5	3256.8	3271.5	3310.5	3320.1	3393.3
27.5°	3062.2	3037.8	3081.7	3081.7	3091.4	3076.6	3115.8	3130.3	3164.5	3164.5	3232.6
30°	2940.5	2906.4	2930.7	2926.0	2930.7	2911.2	2935.6	2940.5	2964.8	2959.8	3008.6
32.5°	2770.0	2721.4	2736.0	2721.4	2706.9	2677.7	2706.9	2697.2	2716.5	2697.2	2740.7
35°	2536.4	2487.8	2482.8	2463.4	2448.8	2424.4	2424.4	2400.2	2405.0	2390.4	2419.7
37.5°	2283.2	2220.0	2210.3	2171.3	2146.9	2117.8	2117.8	2098.3	2073.8	2064.1	2088.5
40°	2034.9	1966.8	1942.5	1879.2	1854.8	1825.6	1806.1	1781.8	1772.1	1733.1	1752.6
42.5°	1820.8	1747.7	1694.4	1626.0	1601.7	1557.8	1528.6	1499.5	1484.9	1441.1	1460.5
45°	1640.6	1553.0	1494.7	1406.9	1372.8	1324.2	1280.3	1246.4	1212.2	1192.7	1183.0
47.5°	1489.7	1397.0	1319.3	1222.0	1168.3	1124.6	1066.2	1032.1	988.3	963.9	949.3
50°	1363.1	1260.9	1173.2	1061.2	1007.7	959.1	890.8	837.5	798.5	759.5	749.9
52.5°	1251.1	1144.0	1046.7	920.1	856.9	798.5	725.4	667.0	632.9	589.1	584.2
55°	1119.6	1027.3	920.1	788.7	725.4	667.0	589.1	530.8	486.8	457.6	447.9
57.5°	978.6	890.8	788.7	657.3	593.9	530.8	457.6	404.0	365.1	340.9	335.9
60°	847.1	764.3	667.0	535.6	472.1	418.7	340.9	287.2	253.3	233.7	223.9
62.5°	749.9	671.8	579.4	457.6	399.3	345.5	272.7	223.9	194.7	175.3	165.4
65°	657.3	579.4	496.6	384.5	335.9	287.2	219.1	175.3	146.0	126.5	116.8
67.5°	560.0	491.8	413.8	321.3	272.7	233.7	175.3	136.3	112.1	97.3	87.6
70°	462.4	399.3	335.9	258.1	223.9	184.9	136.3	107.0	82.8	73.1	63.4
72.5°	365.1	316.5	262.9	199.6	170.5	146.0	107.0	77.9	63.4	53.6	43.8
75°	272.7	238.5	194.7	151.0	126.5	107.0	77.9	58.4	48.6	39.0	34.2
77.5°	194.7	165.4	136.3	102.2	92.6	77.9	53.6	43.8	34.2	24.4	19.4
80°	131.5	116.8	92.6	73.1	58.4	53.6	39.0	29.2	19.4	14.7	14.7
82.5°	87.6	73.1	58.4	43.8	39.0	34.2	24.4	19.4	14.7	9.7	9.7
85°	53.6	43.8	34.2	24.4	24.4	19.4	14.7	9.7	4.9	4.9	4.9
87.5°	24.4	19.4	14.7	9.7	9.7	4.9	4.9	4.9	0.0	0.0	0.0
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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3777.8	3777.8	3777.8	3777.8	3777.8	3777.8	3777.8	3777.8	3777.8	3777.8	3777.8
2.5°	3826.5	3797.3	3777.8	3802.0	3811.9	3797.3	3811.9	3836.2	3860.6	3865.5	3797.3
5°	3831.5	3802.0	3792.3	3821.5	3826.5	3821.5	3836.2	3870.3	3899.5	3909.3	3841.3
7.5°	3831.5	3811.9	3807.1	3841.3	3846.0	3841.3	3865.5	3904.4	3933.5	3953.0	3884.9
10°	3821.5	3811.9	3816.7	3846.0	3855.7	3855.7	3889.9	3933.5	3962.7	3982.1	3914.1
12.5°	3807.1	3807.1	3807.1	3841.3	3850.9	3855.7	3884.9	3943.3	3962.7	3992.0	3923.7
15°	3782.6	3782.6	3782.6	3816.7	3831.5	3831.5	3865.5	3919.0	3943.3	3972.5	3904.4
17.5°	3738.8	3738.8	3743.6	3772.9	3787.5	3787.5	3821.5	3880.2	3894.7	3928.8	3860.6
20°	3675.6	3675.6	3680.4	3709.7	3724.3	3714.5	3758.4	3807.1	3821.5	3850.9	3782.6
22.5°	3583.0	3583.0	3583.0	3612.4	3622.1	3617.2	3661.1	3704.6	3704.6	3743.6	3670.8
25°	3446.8	3456.4	3446.8	3475.9	3485.6	3481.0	3519.9	3558.7	3549.0	3592.9	3519.9
27.5°	3281.2	3276.3	3276.3	3300.8	3300.8	3295.7	3325.0	3368.9	3359.1	3388.3	3320.1
30°	3052.4	3067.0	3042.8	3076.6	3062.2	3052.4	3071.9	3110.8	3096.2	3120.7	3067.0
32.5°	2789.5	2770.0	2770.0	2770.0	2779.7	2755.5	2774.9	2794.5	2779.7	2804.2	2745.8
35°	2443.9	2448.8	2434.1	2439.1	2443.9	2414.6	2434.1	2453.6	2434.1	2448.8	2395.2
37.5°	2098.3	2103.1	2069.1	2088.5	2069.1	2059.3	2078.9	2088.5	2069.1	2083.6	2025.1
40°	1752.6	1743.0	1738.0	1738.0	1743.0	1718.6	1733.1	1747.7	1733.1	1743.0	1689.3
42.5°	1450.7	1445.9	1436.3	1441.1	1426.3	1421.5	1426.3	1441.1	1426.3	1436.3	1397.0
45°	1187.8	1178.1	1163.6	1168.3	1168.3	1144.0	1158.6	1168.3	1153.7	1158.6	1124.6
47.5°	944.5	929.7	929.7	924.9	924.9	915.3	929.7	924.9	910.3	920.1	886.1
50°	735.1	725.4	725.4	725.4	725.4	710.6	715.7	725.4	710.6	710.6	691.2
52.5°	574.5	560.0	550.1	550.1	550.1	545.2	545.2	550.1	535.6	535.6	530.8
55°	433.1	428.3	413.8	413.8	413.8	399.3	404.0	404.0	399.3	399.3	384.5
57.5°	321.3	306.7	296.9	296.9	287.2	287.2	282.4	287.2	277.5	277.5	267.7
60°	214.0	204.4	199.6	194.7	194.7	189.8	194.7	189.8	189.8	184.9	180.1
62.5°	155.7	146.0	136.3	136.3	136.3	131.5	131.5	131.5	131.5	131.5	126.5
65°	112.1	102.2	102.2	97.3	97.3	92.6	92.6	92.6	92.6	92.6	87.6
67.5°	77.9	73.1	68.1	68.1	68.1	68.1	68.1	68.1	63.4	63.4	63.4
70°	58.4	53.6	48.6	48.6	48.6	48.6	48.6	43.8	48.6	48.6	43.8
72.5°	39.0	39.0	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2
75°	29.2	29.2	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
77.5°	19.4	19.4	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
80°	14.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
82.5°	9.7	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
85°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P859301

CATALOG NUMBER: LD4C60D010 EU4609030 4LBSWNH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3777.8	3777.8	3777.8	3777.8	3777.8	3777.8	3777.8	3777.8
2.5°	3870.3	3865.5	3855.7	3870.3	3831.5	3816.7	3811.9	3855.7
5°	3923.7	3914.1	3914.1	3928.8	3884.9	3875.1	3865.5	3914.1
7.5°	3972.5	3962.7	3962.7	3977.5	3938.5	3928.8	3919.0	3967.7
10°	4001.7	4001.7	4001.7	4011.4	3977.5	3967.7	3962.7	4011.4
12.5°	4016.3	4016.3	4011.4	4030.9	3987.2	3987.2	3977.5	4026.2
15°	3996.9	3996.9	3996.9	4011.4	3972.5	3962.7	3962.7	4001.7
17.5°	3948.3	3948.3	3943.3	3957.9	3914.1	3914.1	3909.3	3953.0
20°	3875.1	3875.1	3865.5	3884.9	3841.3	3826.5	3821.5	3865.5
22.5°	3758.4	3753.4	3748.7	3758.4	3719.4	3709.7	3704.6	3743.6
25°	3607.4	3602.7	3592.9	3602.7	3558.7	3544.1	3544.1	3573.2
27.5°	3393.3	3393.3	3378.5	3393.3	3344.4	3339.6	3334.7	3368.9
30°	3130.3	3110.8	3101.0	3120.7	3071.9	3071.9	3062.2	3096.2
32.5°	2804.2	2784.7	2779.7	2789.5	2745.8	2731.1	2750.5	2770.0
35°	2429.4	2434.1	2414.6	2414.6	2375.7	2380.5	2385.4	2414.6
37.5°	2069.1	2059.3	2054.3	2059.3	2030.1	2020.5	2010.6	2039.9
40°	1733.1	1708.8	1704.0	1704.0	1679.6	1674.8	1679.6	1694.4
42.5°	1416.6	1411.8	1392.3	1402.1	1377.7	1387.4	1382.6	1382.6
45°	1144.0	1148.8	1129.4	1144.0	1124.6	1109.9	1109.9	1119.6
47.5°	905.5	905.5	900.6	900.6	886.1	890.8	881.1	895.8
50°	701.0	701.0	691.2	696.2	686.4	686.4	681.5	686.4
52.5°	535.6	530.8	530.8	525.8	516.0	521.0	525.8	516.0
55°	389.6	394.2	384.5	389.6	379.7	384.5	379.7	384.5
57.5°	267.7	272.7	262.9	272.7	262.9	267.7	262.9	262.9
60°	184.9	184.9	180.1	184.9	180.1	180.1	175.3	184.9
62.5°	126.5	126.5	126.5	126.5	126.5	121.8	126.5	126.5
65°	92.6	87.6	87.6	87.6	87.6	87.6	87.6	87.6
67.5°	63.4	63.4	63.4	63.4	63.4	63.4	63.4	63.4
70°	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8
72.5°	34.2	34.2	34.2	34.2	34.2	34.2	34.2	34.2
75°	24.4	24.4	24.4	24.4	24.4	24.4	24.4	24.4
77.5°	14.7	14.7	14.7	14.7	14.7	14.7	14.7	14.7
80°	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
82.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
85°	4.9	4.9	4.9	0.0	4.9	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)