

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: P#

Luminaire Tested: **LD4C70D010 EX4C709027 4LBSQLWWLI**

Issue Date: 2/18/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



**Test Information**

Test Method: LM-79-08  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P219529)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/18/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C70D010 EX4C709027 4LBSQLWWLI  
Description: 4 INCH 7000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBSQLWW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

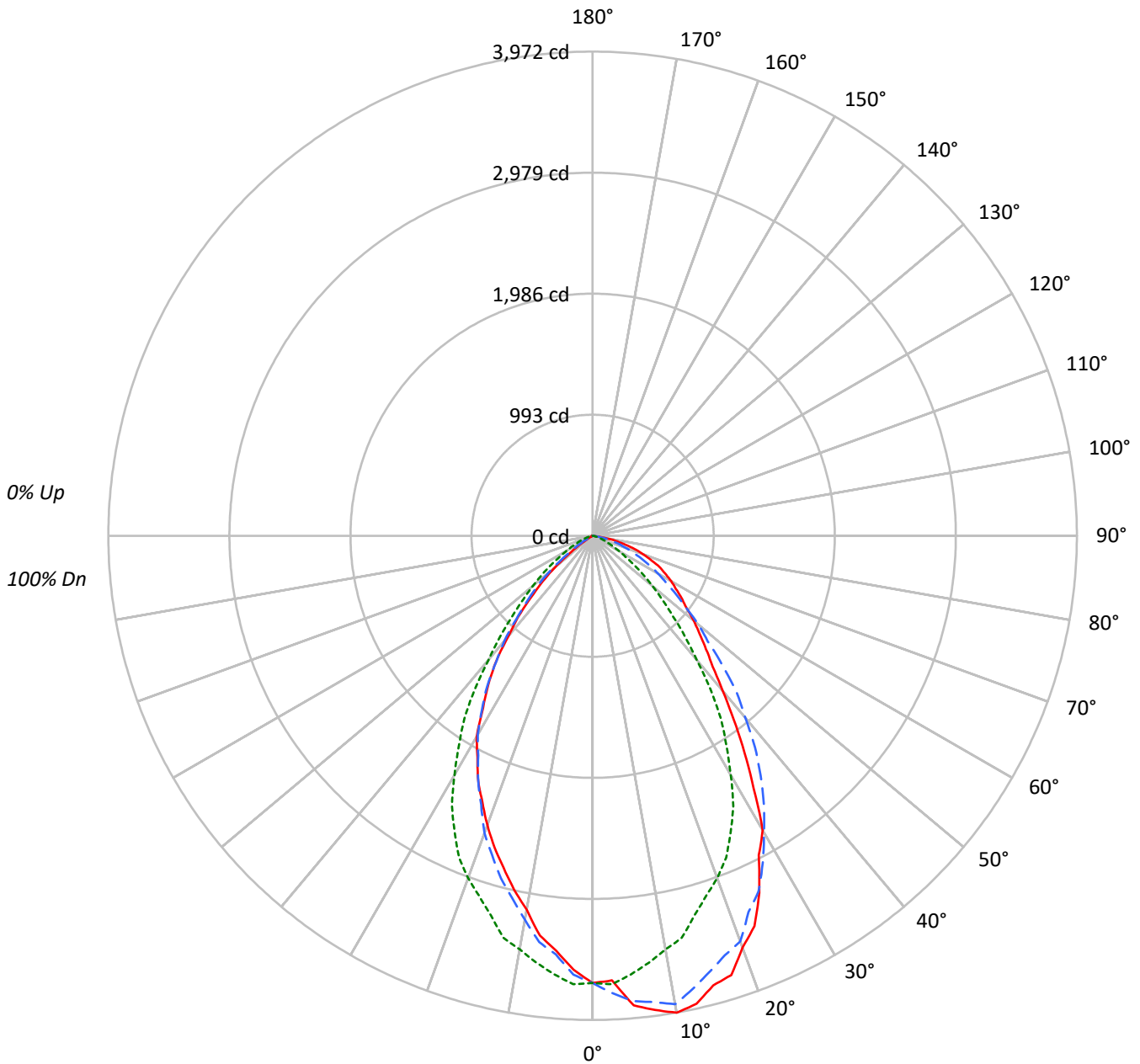
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5259.0 lumens  
Efficiency: N/A  
Efficacy: 67.4 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1 / 1.06  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 78  
Input Voltage (V):  
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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CATALOG NUMBER: LD4C70D010 EX4C709027 4LBSQLWWLI

### 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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64																			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	60	68	64	60	58																			
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	54	53																			
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48																			
8	70	59	52	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44																			
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	41																			
10	62	51	44	40	61	51	44	40	50	44	39	49	43	39	48	43	39	38																			

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

	0°	90°	180°
0°	353998	353998	353998
5°	374528	349830	331078
10°	389215	337493	305151
15°	381430	322104	281677
20°	369057	306709	259281
25°	344240	285216	236520
30°	310750	252412	211746
35°	255984	216088	175662
40°	208900	166793	135203
45°	179494	126672	97252
50°	162449	96416	61425
55°	149483	69560	22205
60°	143479	47530	3396
65°	138585	32146	1027
70°	124074	22315	1270
75°	101701	11520	0
80°	63567	4890	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	343.7	6.5
10°-20°	926.1	17.6
20°-30°	1236.6	23.5
30°-40°	1173.9	22.3
40°-50°	811.5	15.4
50°-60°	448.4	8.5
60°-70°	222.7	4.2
70°-80°	87.7	1.7
80°-90°	8.4	0.2
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°	2506.5	47.7
0°-40°	3680.4	70.0
0°-60°	4940.3	93.9
0°-90°	5259.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5259.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3669	3669	3669	3669	3669	
5°	3867	3832	3612	3449	3418	370
15°	3818	3704	3224	2908	2820	1080
25°	3233	3220	2679	2222	2222	1474
35°	2173	2402	1834	1509	1491	1361
45°	1315	1509	928	761	713	1026
55°	889	836	414	211	132	800
65°	607	440	141	4	4	589
75°	273	167	31	0	0	291
85°	0	4	0	0	0	25
90°	0	0	0	0	0	



TEST NUMBER: P#

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3668.8	3668.8	3668.8	3668.8	3668.8	3668.8	3668.8	3668.8	3668.8	3668.8	3668.8
2.5°	3651.2	3752.4	3761.2	3752.4	3765.7	3761.2	3783.2	3761.2	3787.7	3748.1	3756.9
5°	3866.8	3827.2	3910.8	3866.8	3866.8	3862.5	3849.2	3844.8	3862.5	3805.3	3831.7
7.5°	3924.0	3981.3	4056.1	3963.7	3968.0	3968.0	3941.6	3932.8	3932.8	3827.2	3858.0
10°	3972.5	3937.1	3976.8	3941.6	3972.5	3968.0	3985.6	3928.4	3968.0	3906.5	3902.0
12.5°	3932.8	3919.6	3972.5	3915.3	3897.7	3902.0	3880.1	3866.8	3880.1	3809.6	3805.3
15°	3818.4	3831.7	3910.8	3849.2	3840.5	3831.7	3805.3	3761.2	3796.5	3699.6	3704.1
17.5°	3778.9	3756.9	3770.1	3717.2	3730.5	3721.7	3717.2	3677.8	3668.8	3607.3	3607.3
20°	3594.2	3642.4	3642.4	3607.3	3607.3	3603.0	3545.7	3580.9	3541.3	3523.7	3541.3
22.5°	3466.5	3470.9	3470.9	3440.1	3444.6	3427.0	3396.1	3374.1	3396.1	3374.1	3338.9
25°	3233.4	3242.2	3295.0	3237.8	3229.0	3246.5	3220.2	3206.9	3202.6	3149.9	3220.2
27.5°	2951.8	3039.7	3035.4	3013.4	3039.7	3004.6	2991.5	2995.8	3009.0	3004.6	3022.1
30°	2789.1	2802.2	2815.5	2797.9	2802.2	2789.1	2789.1	2793.4	2828.6	2815.5	2811.0
32.5°	2459.1	2503.0	2538.4	2538.4	2542.7	2555.9	2551.5	2643.8	2665.9	2621.9	2613.2
35°	2173.2	2204.0	2234.7	2239.2	2296.4	2300.7	2305.2	2331.5	2393.1	2406.3	2401.9
37.5°	1900.5	1931.2	1940.0	1979.6	2010.5	2041.1	2076.5	2111.6	2164.4	2208.3	2186.4
40°	1658.5	1671.6	1693.7	1711.3	1772.8	1772.8	1790.4	1860.9	1918.1	1953.2	1948.8
42.5°	1456.2	1460.5	1478.1	1508.9	1566.1	1552.9	1566.1	1614.6	1698.0	1702.5	1750.9
45°	1315.4	1310.9	1324.2	1328.5	1363.8	1381.4	1390.2	1425.3	1495.6	1504.4	1508.9
47.5°	1187.8	1183.4	1205.4	1214.2	1227.3	1244.9	1244.9	1249.4	1275.7	1297.8	1280.2
50°	1082.2	1082.2	1082.2	1091.0	1113.0	1108.6	1113.0	1130.6	1143.7	1134.9	1130.6
52.5°	967.7	985.3	998.6	1003.1	1007.4	1007.4	1011.9	1003.1	998.6	985.3	959.0
55°	888.6	906.2	906.2	906.2	906.2	923.8	901.9	906.2	906.2	871.1	835.9
57.5°	809.5	827.1	840.2	822.6	840.2	822.6	813.8	809.5	800.6	765.4	712.7
60°	743.5	752.3	747.8	743.5	752.3	739.0	730.2	712.7	703.9	655.4	620.3
62.5°	668.7	673.0	677.5	668.7	659.9	655.4	637.9	611.5	593.9	554.3	523.4
65°	607.0	593.9	589.4	585.1	576.3	563.1	550.0	519.1	505.8	470.7	439.8
67.5°	514.6	510.3	519.1	505.8	484.0	484.0	470.7	444.3	413.5	391.6	360.7
70°	439.8	435.5	426.7	413.5	409.2	391.6	391.6	360.7	351.9	312.3	285.9
72.5°	360.7	360.7	347.5	334.4	321.1	312.3	308.0	285.9	272.8	250.8	228.7
75°	272.8	272.8	268.3	255.1	246.3	237.5	233.2	215.6	202.3	180.4	167.2
77.5°	193.5	193.5	176.0	167.2	171.5	162.7	153.9	149.6	145.1	132.0	114.4
80°	114.4	110.0	96.9	101.2	96.9	96.9	92.4	87.9	79.1	70.3	61.5
82.5°	30.9	35.2	35.2	35.2	39.6	30.9	30.9	30.9	35.2	35.2	22.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5	4.5
87.5°	4.5	8.8	17.6	17.6	17.6	17.6	17.6	13.3	13.3	13.3	8.8
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°	3668.8	3668.8	3668.8	3668.8	3668.8	3668.8	3668.8	3668.8	3668.8	3668.8	3668.8
2.5°	3712.9	3708.4	3712.9	3682.1	3752.4	3699.6	3690.9	3682.1	3712.9	3682.1	3638.1
5°	3792.0	3748.1	3734.8	3721.7	3761.2	3699.6	3686.6	3690.9	3668.8	3611.8	3616.1
7.5°	3818.4	3778.9	3739.3	3655.7	3690.9	3677.8	3642.4	3616.1	3580.9	3532.5	3523.7
10°	3827.2	3783.2	3726.0	3699.6	3646.9	3629.3	3616.1	3572.1	3528.2	3444.6	3422.5
12.5°	3800.8	3748.1	3677.8	3655.7	3616.1	3558.8	3528.2	3484.0	3444.6	3378.6	3330.1
15°	3686.6	3642.4	3620.5	3545.7	3528.2	3492.8	3431.3	3369.8	3312.6	3224.5	3198.1
17.5°	3554.5	3537.0	3514.9	3457.7	3453.4	3418.2	3361.0	3308.1	3233.4	3096.9	3053.0
20°	3418.2	3418.2	3347.7	3325.8	3369.8	3299.3	3255.3	3206.9	3053.0	2987.0	2907.9
22.5°	3317.0	3268.6	3229.0	3193.8	3198.1	3154.2	3092.6	2995.8	2938.6	2859.4	2767.1
25°	3119.0	3136.6	3048.7	3035.4	3048.7	2947.3	2916.7	2837.4	2753.8	2679.0	2608.7
27.5°	2995.8	2947.3	2890.3	2841.9	2841.9	2802.2	2714.3	2696.7	2569.0	2498.7	2410.6
30°	2811.0	2775.9	2727.4	2657.1	2648.3	2617.5	2547.1	2503.0	2371.2	2265.5	2217.1
32.5°	2577.8	2564.7	2525.1	2446.0	2419.6	2384.3	2296.4	2221.6	2160.1	2041.1	1984.1
35°	2410.6	2362.4	2278.8	2212.8	2190.7	2129.2	2058.7	2006.0	1940.0	1834.5	1759.7
37.5°	2160.1	2111.6	2032.3	1953.2	1953.2	1891.7	1794.8	1742.1	1649.7	1588.0	1526.5
40°	1940.0	1878.4	1799.3	1706.9	1693.7	1605.6	1566.1	1478.1	1420.8	1324.2	1315.4
42.5°	1693.7	1636.5	1566.1	1495.6	1442.9	1399.0	1297.8	1231.8	1170.3	1121.8	1108.6
45°	1469.3	1394.5	1332.9	1244.9	1192.1	1139.4	1073.4	1029.4	981.0	928.3	897.4
47.5°	1275.7	1214.2	1126.1	1047.0	994.3	967.7	892.9	844.7	805.0	769.9	747.8
50°	1077.9	1003.1	954.6	866.6	857.8	796.3	734.7	695.1	673.0	642.3	611.5
52.5°	928.3	857.8	791.8	725.9	690.6	668.7	611.5	571.9	541.2	519.1	501.5
55°	783.0	721.5	668.7	602.7	580.6	550.0	484.0	475.2	444.3	413.5	391.6
57.5°	673.0	615.8	554.3	510.3	470.7	448.8	395.9	360.7	343.1	316.8	294.7
60°	571.9	510.3	461.9	409.2	391.6	360.7	321.1	290.4	268.3	246.3	224.4
62.5°	479.5	426.7	374.0	329.9	303.5	285.9	255.1	228.7	206.8	189.2	171.5
65°	395.9	347.5	303.5	259.6	246.3	224.4	202.3	180.4	162.7	140.8	123.2
67.5°	325.6	281.6	237.5	206.8	193.5	184.8	158.4	136.3	123.2	110.0	92.4
70°	255.1	224.4	189.2	162.7	149.6	136.3	118.7	105.7	87.9	79.1	66.0
72.5°	198.0	171.5	140.8	118.7	110.0	101.2	83.6	70.3	61.5	52.7	43.9
75°	140.8	118.7	101.2	79.1	74.8	70.3	57.2	48.4	39.6	30.9	26.4
77.5°	96.9	79.1	61.5	52.7	48.4	39.6	35.2	26.4	22.1	17.6	13.3
80°	52.7	39.6	30.9	26.4	22.1	17.6	17.6	13.3	8.8	8.8	4.5
82.5°	17.6	13.3	8.8	4.5	4.5	4.5	4.5	4.5	4.5	0.0	4.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	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°	3668.8	3668.8	3668.8	3668.8	3668.8	3668.8	3668.8	3668.8	3668.8	3668.8	3668.8
2.5°	3664.5	3616.1	3629.3	3629.3	3620.5	3620.5	3611.8	3598.5	3603.0	3576.4	3519.4
5°	3624.8	3563.3	3554.5	3563.3	3528.2	3519.4	3501.8	3528.2	3448.9	3479.7	3444.6
7.5°	3510.6	3453.4	3440.1	3470.9	3427.0	3400.5	3396.1	3431.3	3361.0	3325.8	3286.2
10°	3382.9	3361.0	3321.3	3299.3	3286.2	3290.5	3255.3	3211.4	3198.1	3189.3	3154.2
12.5°	3268.6	3220.2	3185.0	3158.6	3149.9	3149.9	3092.6	3083.8	3044.2	3035.4	2982.7
15°	3132.1	3075.1	3053.0	3017.8	2987.0	3004.6	2938.6	2921.0	2907.9	2850.7	2859.4
17.5°	3013.4	2951.8	2899.1	2877.0	2850.7	2824.3	2762.6	2775.9	2745.0	2745.0	2665.9
20°	2859.4	2793.4	2753.8	2709.8	2709.8	2674.7	2630.7	2635.0	2595.4	2555.9	2485.4
22.5°	2696.7	2626.3	2577.8	2560.2	2516.3	2507.5	2454.8	2441.5	2388.8	2393.1	2331.5
25°	2525.1	2454.8	2388.8	2393.1	2353.6	2336.0	2305.2	2243.6	2221.6	2195.2	2177.6
27.5°	2322.8	2274.3	2217.1	2212.8	2138.0	2142.3	2102.8	2085.3	2032.3	2045.6	2006.0
30°	2138.0	2067.7	2014.8	2001.7	1970.8	1962.0	1900.5	1874.0	1882.9	1847.6	1825.7
32.5°	1948.8	1843.3	1821.2	1794.8	1777.3	1755.2	1711.3	1728.8	1689.2	1698.0	1662.8
35°	1698.0	1654.0	1596.8	1596.8	1579.2	1561.7	1531.0	1548.6	1508.9	1491.3	1456.2
37.5°	1486.9	1447.4	1390.2	1407.7	1376.9	1350.5	1324.2	1328.5	1293.3	1289.0	1253.7
40°	1258.1	1236.1	1196.6	1196.6	1174.6	1174.6	1161.3	1148.2	1126.1	1099.8	1060.1
42.5°	1042.5	1025.0	1007.4	1011.9	981.0	1007.4	972.2	994.3	923.8	919.5	892.9
45°	884.2	844.7	849.0	831.4	813.8	822.6	791.8	800.6	761.1	752.3	725.9
47.5°	717.1	703.9	677.5	668.7	668.7	655.4	642.3	637.9	620.3	598.2	563.1
50°	589.4	541.2	532.2	519.1	510.3	510.3	492.7	466.4	470.7	448.8	413.5
52.5°	461.9	422.3	404.7	400.4	382.8	374.0	351.9	334.4	321.1	312.3	290.4
55°	356.2	321.1	299.2	299.2	272.8	272.8	242.0	228.7	211.1	193.5	180.4
57.5°	268.3	250.8	228.7	211.1	202.3	180.4	162.7	140.8	127.5	101.2	83.6
60°	202.3	184.8	162.7	149.6	140.8	118.7	96.9	79.1	48.4	39.6	35.2
62.5°	149.6	132.0	110.0	101.2	92.4	74.8	52.7	26.4	13.3	13.3	13.3
65°	110.0	87.9	70.3	61.5	52.7	39.6	17.6	8.8	4.5	4.5	4.5
67.5°	74.8	57.2	39.6	35.2	26.4	13.3	4.5	4.5	4.5	4.5	4.5
70°	48.4	35.2	17.6	13.3	8.8	4.5	4.5	4.5	4.5	4.5	4.5
72.5°	30.9	17.6	8.8	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	17.6	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.8	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.5	4.5
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: P#

CATALOG NUMBER: LD4C70D010 EX4C709027 4LBSQLWWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3668.8	3668.8	3668.8	3668.8	3668.8	3668.8	3668.8	3668.8
2.5°	3580.9	3550.1	3567.6	3528.2	3545.7	3576.4	3554.5	3563.3
5°	3457.7	3440.1	3418.2	3361.0	3404.9	3440.1	3422.5	3418.2
7.5°	3325.8	3264.1	3295.0	3277.4	3268.6	3303.8	3264.1	3308.1
10°	3189.3	3145.4	3141.1	3110.2	3110.2	3136.6	3141.1	3114.5
12.5°	2987.0	2965.1	2965.1	2960.6	2956.1	2982.7	2987.0	2973.9
15°	2841.9	2833.1	2811.0	2806.7	2780.3	2819.8	2824.3	2819.8
17.5°	2665.9	2670.2	2648.3	2648.3	2665.9	2679.0	2643.8	2679.0
20°	2547.1	2525.1	2516.3	2476.7	2498.7	2520.8	2520.8	2525.1
22.5°	2375.5	2340.3	2353.6	2331.5	2318.3	2349.1	2349.1	2362.4
25°	2181.9	2181.9	2190.7	2177.6	2186.4	2204.0	2190.7	2221.6
27.5°	1997.2	2014.8	2014.8	1997.2	2006.0	2058.7	2080.8	2045.6
30°	1825.7	1830.0	1843.3	1834.5	1860.9	1878.4	1874.0	1900.5
32.5°	1632.1	1654.0	1662.8	1649.7	1658.5	1698.0	1676.1	1671.6
35°	1482.5	1442.9	1438.6	1442.9	1460.5	1469.3	1460.5	1491.3
37.5°	1266.9	1253.7	1236.1	1240.6	1253.7	1271.4	1280.2	1302.1
40°	1060.1	1042.5	1042.5	1038.2	1025.0	1073.4	1073.4	1073.4
42.5°	879.8	875.4	853.5	853.5	871.1	884.2	875.4	906.2
45°	721.5	703.9	690.6	690.6	703.9	703.9	717.1	712.7
47.5°	567.5	550.0	554.3	541.2	554.3	571.9	550.0	554.3
50°	426.7	426.7	417.9	426.7	422.3	426.7	417.9	409.2
52.5°	290.4	329.9	334.4	316.8	277.1	242.0	219.9	237.5
55°	167.2	149.6	149.6	145.1	136.3	132.0	118.7	132.0
57.5°	83.6	74.8	74.8	74.8	70.3	66.0	57.2	57.2
60°	35.2	30.9	30.9	26.4	22.1	17.6	13.3	17.6
62.5°	13.3	8.8	8.8	8.8	8.8	8.8	8.8	8.8
65°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
67.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
70°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	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)