

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: **LD4C65D010 EX4C659035 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: LD4C65D010 EX4C659035 4LBSQLWWLI  
Description: 4 INCH 6500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBSQLWW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

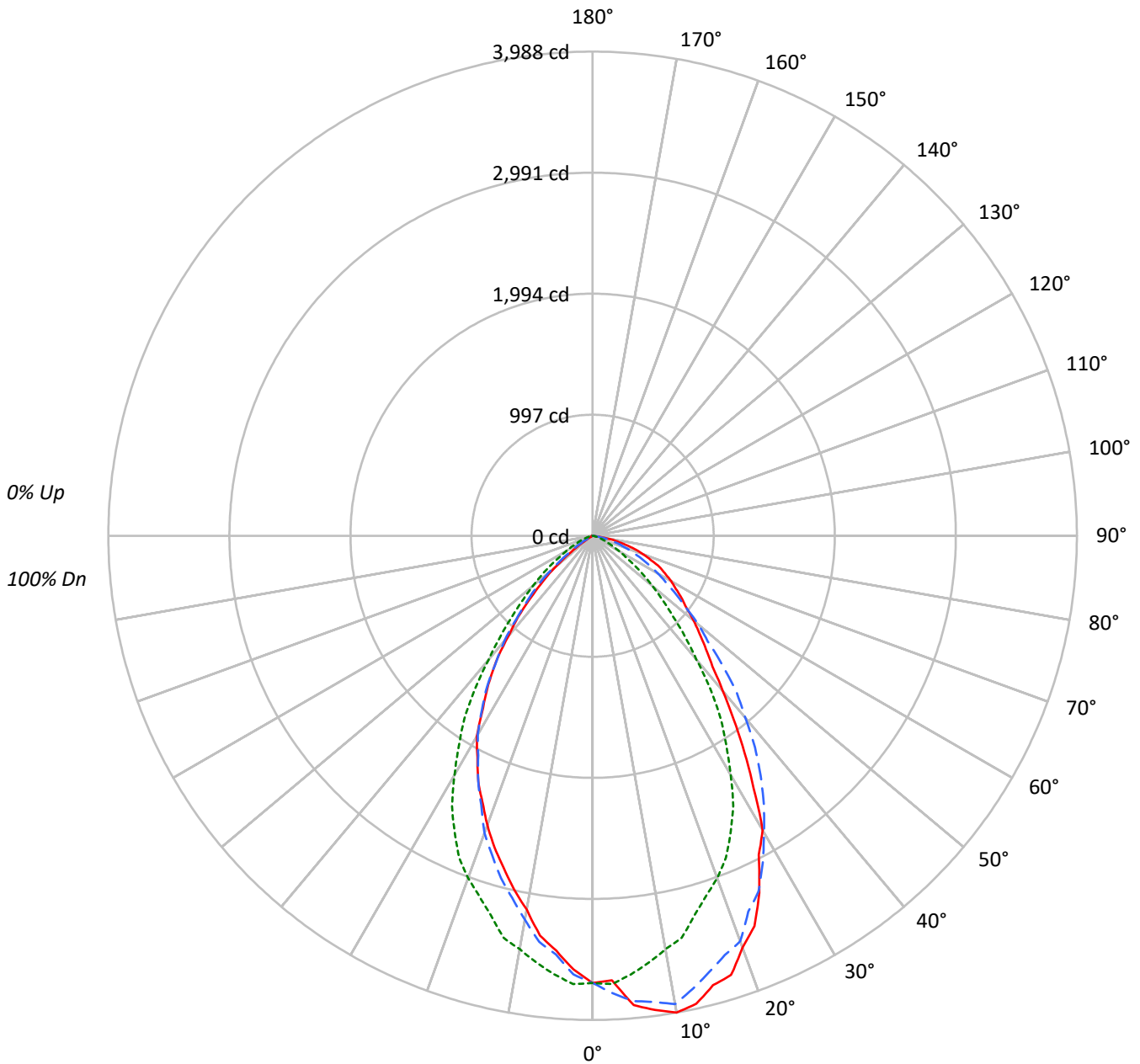
Lumens per Lamp: N/A  
Luminaire Lumens: 5279.0 lumens  
Efficiency: N/A  
Efficacy: 72.9 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1 / 1.06  
Luminous Opening: Rectangular (W 0.33' x L: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 72.4  
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	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°	355349	355349	355349
5°	375952	351157	332337
10°	390695	338776	306317
15°	382879	323323	282746
20°	370454	307869	260266
25°	345549	286302	237414
30°	311931	253371	212548
35°	256950	216912	176333
40°	209694	167422	135719
45°	180176	127150	97621
50°	163065	96791	61650
55°	150055	69813	22290
60°	144019	47704	3396
65°	139111	32261	1027
70°	124554	22400	1270
75°	102111	11557	0
80°	63845	4890	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	345.1	6.5
10°-20°	929.6	17.6
20°-30°	1241.4	23.5
30°-40°	1178.4	22.3
40°-50°	814.6	15.4
50°-60°	450.1	8.5
60°-70°	223.5	4.2
70°-80°	88.0	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°	2516.0	47.7
0°-40°	3694.4	70.0
0°-60°	4959.1	93.9
0°-90°	5279.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5279.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3683	3683	3683	3683	3683	
5°	3882	3846	3626	3462	3431	372
15°	3833	3718	3237	2919	2830	1084
25°	3246	3232	2689	2230	2230	1480
35°	2181	2411	1842	1515	1497	1367
45°	1320	1515	932	764	715	1030
55°	892	839	415	212	132	803
65°	609	442	141	4	4	591
75°	274	168	31	0	0	292
85°	0	4	0	0	0	25
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°	3682.8	3682.8	3682.8	3682.8	3682.8	3682.8	3682.8	3682.8	3682.8	3682.8	3682.8
2.5°	3665.1	3766.7	3775.5	3766.7	3780.0	3775.5	3797.6	3775.5	3802.1	3762.3	3771.2
5°	3881.5	3841.7	3925.6	3881.5	3881.5	3877.2	3863.9	3859.4	3877.2	3819.8	3846.2
7.5°	3939.0	3996.4	4071.5	3978.8	3983.1	3983.1	3956.6	3947.8	3947.8	3841.7	3872.7
10°	3987.6	3952.1	3991.9	3956.6	3987.6	3983.1	4000.7	3943.3	3983.1	3921.3	3916.8
12.5°	3947.8	3934.5	3987.6	3930.1	3912.5	3916.8	3894.9	3881.5	3894.9	3824.1	3819.8
15°	3832.9	3846.2	3925.6	3863.9	3855.1	3846.2	3819.8	3775.5	3810.9	3713.7	3718.2
17.5°	3793.3	3771.2	3784.5	3731.4	3744.7	3735.9	3731.4	3691.7	3682.8	3621.0	3621.0
20°	3607.8	3656.3	3656.3	3621.0	3621.0	3616.7	3559.2	3594.5	3554.7	3537.1	3554.7
22.5°	3479.6	3484.1	3484.1	3453.2	3457.7	3440.0	3409.1	3386.9	3409.1	3386.9	3351.6
25°	3245.7	3254.6	3307.5	3250.1	3241.2	3258.9	3232.4	3219.1	3214.8	3161.8	3232.4
27.5°	2963.1	3051.3	3047.0	3024.8	3051.3	3016.0	3002.8	3007.2	3020.5	3016.0	3033.6
30°	2799.7	2812.9	2826.2	2808.6	2812.9	2799.7	2799.7	2804.1	2839.4	2826.2	2821.7
32.5°	2468.4	2512.5	2548.0	2548.0	2552.3	2565.7	2561.2	2653.9	2676.0	2631.9	2623.1
35°	2181.4	2212.4	2243.2	2247.7	2305.1	2309.4	2313.9	2340.4	2402.2	2415.5	2411.0
37.5°	1907.7	1938.5	1947.3	1987.1	2018.1	2048.9	2084.4	2119.7	2172.6	2216.7	2194.7
40°	1664.8	1678.0	1700.1	1717.8	1779.5	1779.5	1797.2	1867.9	1925.4	1960.7	1956.2
42.5°	1461.7	1466.0	1483.7	1514.7	1572.1	1558.8	1572.1	1620.7	1704.4	1708.9	1757.6
45°	1320.4	1315.9	1329.2	1333.5	1369.0	1386.6	1395.5	1430.7	1501.3	1510.2	1514.7
47.5°	1192.3	1187.9	1210.0	1218.8	1232.0	1249.6	1249.6	1254.1	1280.6	1302.7	1285.1
50°	1086.3	1086.3	1086.3	1095.1	1117.3	1112.8	1117.3	1134.9	1148.1	1139.2	1134.9
52.5°	971.4	989.1	1002.4	1006.9	1011.2	1011.2	1015.7	1006.9	1002.4	989.1	962.6
55°	892.0	909.7	909.7	909.7	909.7	927.3	905.3	909.7	909.7	874.4	839.1
57.5°	812.6	830.2	843.4	825.8	843.4	825.8	816.9	812.6	803.6	768.3	715.4
60°	746.3	755.2	750.7	746.3	755.2	741.8	733.0	715.4	706.6	657.9	622.6
62.5°	671.3	675.6	680.1	671.3	662.4	657.9	640.3	613.8	596.2	556.4	525.4
65°	609.3	596.2	591.7	587.4	578.5	565.2	552.1	521.1	507.8	472.5	441.5
67.5°	516.6	512.3	521.1	507.8	485.8	485.8	472.5	446.0	415.0	393.1	362.1
70°	441.5	437.2	428.4	415.0	410.7	393.1	393.1	362.1	353.3	313.5	287.0
72.5°	362.1	362.1	348.8	335.6	322.3	313.5	309.2	287.0	273.9	251.7	229.6
75°	273.9	273.9	269.4	256.0	247.2	238.4	234.1	216.4	203.1	181.1	167.8
77.5°	194.3	194.3	176.6	167.8	172.1	163.3	154.5	150.2	145.7	132.5	114.9
80°	114.9	110.4	97.2	101.6	97.2	97.2	92.7	88.2	79.4	70.6	61.8
82.5°	31.0	35.3	35.3	35.3	39.8	31.0	31.0	31.0	35.3	35.3	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°	3682.8	3682.8	3682.8	3682.8	3682.8	3682.8	3682.8	3682.8	3682.8	3682.8	3682.8
2.5°	3727.0	3722.5	3727.0	3696.1	3766.7	3713.7	3704.9	3696.1	3727.0	3696.1	3652.0
5°	3806.4	3762.3	3749.0	3735.9	3775.5	3713.7	3700.6	3704.9	3682.8	3625.5	3629.8
7.5°	3832.9	3793.3	3753.5	3669.6	3704.9	3691.7	3656.3	3629.8	3594.5	3545.9	3537.1
10°	3841.7	3797.6	3740.2	3713.7	3660.8	3643.1	3629.8	3585.7	3541.6	3457.7	3435.5
12.5°	3815.3	3762.3	3691.7	3669.6	3629.8	3572.4	3541.6	3497.3	3457.7	3391.4	3342.8
15°	3700.6	3656.3	3634.3	3559.2	3541.6	3506.1	3444.4	3382.6	3325.2	3236.7	3210.3
17.5°	3568.0	3550.4	3528.3	3470.8	3466.5	3431.2	3373.8	3320.7	3245.7	3108.7	3064.6
20°	3431.2	3431.2	3360.4	3338.5	3382.6	3311.8	3267.7	3219.1	3064.6	2998.3	2918.9
22.5°	3329.6	3281.0	3241.2	3206.0	3210.3	3166.2	3104.4	3007.2	2949.7	2870.3	2777.6
25°	3130.9	3148.5	3060.3	3047.0	3060.3	2958.6	2927.8	2848.2	2764.3	2689.2	2618.6
27.5°	3007.2	2958.6	2901.3	2852.7	2852.7	2812.9	2724.7	2707.0	2578.8	2508.2	2419.8
30°	2821.7	2786.4	2737.8	2667.2	2658.4	2627.4	2556.8	2512.5	2380.2	2274.1	2225.5
32.5°	2587.6	2574.5	2534.7	2455.3	2428.8	2393.3	2305.1	2230.0	2168.3	2048.9	1991.6
35°	2419.8	2371.4	2287.5	2221.2	2199.1	2137.3	2066.5	2013.6	1947.3	1841.5	1766.4
37.5°	2168.3	2119.7	2040.1	1960.7	1960.7	1898.9	1801.7	1748.7	1656.0	1594.1	1532.3
40°	1947.3	1885.6	1806.2	1713.4	1700.1	1611.7	1572.1	1483.7	1426.3	1329.2	1320.4
42.5°	1700.1	1642.7	1572.1	1501.3	1448.4	1404.3	1302.7	1236.5	1174.7	1126.1	1112.8
45°	1474.9	1399.8	1338.0	1249.6	1196.7	1143.7	1077.5	1033.4	984.7	931.8	900.8
47.5°	1280.6	1218.8	1130.4	1051.0	998.1	971.4	896.3	847.9	808.1	772.8	750.7
50°	1082.0	1006.9	958.3	869.9	861.0	799.3	737.5	697.7	675.6	644.8	613.8
52.5°	931.8	861.0	794.8	728.7	693.2	671.3	613.8	574.0	543.2	521.1	503.4
55°	786.0	724.2	671.3	605.0	582.9	552.1	485.8	477.0	446.0	415.0	393.1
57.5°	675.6	618.1	556.4	512.3	472.5	450.5	397.4	362.1	344.5	318.0	295.8
60°	574.0	512.3	463.7	410.7	393.1	362.1	322.3	291.5	269.4	247.2	225.3
62.5°	481.3	428.4	375.4	331.1	304.7	287.0	256.0	229.6	207.6	190.0	172.1
65°	397.4	348.8	304.7	260.5	247.2	225.3	203.1	181.1	163.3	141.3	123.7
67.5°	326.8	282.7	238.4	207.6	194.3	185.5	159.0	136.8	123.7	110.4	92.7
70°	256.0	225.3	190.0	163.3	150.2	136.8	119.2	106.1	88.2	79.4	66.3
72.5°	198.8	172.1	141.3	119.2	110.4	101.6	83.9	70.6	61.8	52.9	44.1
75°	141.3	119.2	101.6	79.4	75.1	70.6	57.4	48.6	39.8	31.0	26.5
77.5°	97.2	79.4	61.8	52.9	48.6	39.8	35.3	26.5	22.1	17.6	13.3
80°	52.9	39.8	31.0	26.5	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°	3682.8	3682.8	3682.8	3682.8	3682.8	3682.8	3682.8	3682.8	3682.8	3682.8	3682.8
2.5°	3678.4	3629.8	3643.1	3643.1	3634.3	3634.3	3625.5	3612.2	3616.7	3590.0	3532.8
5°	3638.6	3576.9	3568.0	3576.9	3541.6	3532.8	3515.1	3541.6	3462.0	3493.0	3457.7
7.5°	3523.9	3466.5	3453.2	3484.1	3440.0	3413.4	3409.1	3444.4	3373.8	3338.5	3298.7
10°	3395.7	3373.8	3334.0	3311.8	3298.7	3303.0	3267.7	3223.6	3210.3	3201.5	3166.2
12.5°	3281.0	3232.4	3197.1	3170.7	3161.8	3161.8	3104.4	3095.6	3055.8	3047.0	2994.0
15°	3144.0	3086.7	3064.6	3029.3	2998.3	3016.0	2949.7	2932.1	2918.9	2861.5	2870.3
17.5°	3024.8	2963.1	2910.1	2888.0	2861.5	2835.0	2773.1	2786.4	2755.4	2755.4	2676.0
20°	2870.3	2804.1	2764.3	2720.2	2720.2	2684.9	2640.7	2645.1	2605.3	2565.7	2494.9
22.5°	2707.0	2636.2	2587.6	2570.0	2525.9	2517.0	2464.1	2450.8	2397.8	2402.2	2340.4
25°	2534.7	2464.1	2397.8	2402.2	2362.6	2344.9	2313.9	2252.2	2230.0	2203.6	2185.9
27.5°	2331.6	2283.0	2225.5	2221.2	2146.1	2150.4	2110.8	2093.2	2040.1	2053.4	2013.6
30°	2146.1	2075.5	2022.4	2009.3	1978.3	1969.5	1907.7	1881.1	1890.1	1854.6	1832.6
32.5°	1956.2	1850.3	1828.1	1801.7	1784.0	1761.9	1717.8	1735.4	1695.6	1704.4	1669.1
35°	1704.4	1660.3	1602.9	1602.9	1585.2	1567.6	1536.8	1554.4	1514.7	1497.0	1461.7
37.5°	1492.5	1452.9	1395.5	1413.1	1382.1	1355.7	1329.2	1333.5	1298.2	1293.9	1258.4
40°	1262.9	1240.8	1201.2	1201.2	1179.0	1179.0	1165.7	1152.6	1130.4	1103.9	1064.2
42.5°	1046.5	1028.9	1011.2	1015.7	984.7	1011.2	975.9	998.1	927.3	923.0	896.3
45°	887.5	847.9	852.2	834.6	816.9	825.8	794.8	803.6	764.0	755.2	728.7
47.5°	719.9	706.6	680.1	671.3	671.3	657.9	644.8	640.3	622.6	600.5	565.2
50°	591.7	543.2	534.2	521.1	512.3	512.3	494.6	468.2	472.5	450.5	415.0
52.5°	463.7	423.9	406.2	401.9	384.2	375.4	353.3	335.6	322.3	313.5	291.5
55°	357.6	322.3	300.3	300.3	273.9	273.9	242.9	229.6	211.9	194.3	181.1
57.5°	269.4	251.7	229.6	211.9	203.1	181.1	163.3	141.3	128.0	101.6	83.9
60°	203.1	185.5	163.3	150.2	141.3	119.2	97.2	79.4	48.6	39.8	35.3
62.5°	150.2	132.5	110.4	101.6	92.7	75.1	52.9	26.5	13.3	13.3	13.3
65°	110.4	88.2	70.6	61.8	52.9	39.8	17.6	8.8	4.5	4.5	4.5
67.5°	75.1	57.4	39.8	35.3	26.5	13.3	4.5	4.5	4.5	4.5	4.5
70°	48.6	35.3	17.6	13.3	8.8	4.5	4.5	4.5	4.5	4.5	4.5
72.5°	31.0	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: LD4C65D010 EX4C659035 4LBSQLWWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3682.8	3682.8	3682.8	3682.8	3682.8	3682.8	3682.8	3682.8
2.5°	3594.5	3563.6	3581.2	3541.6	3559.2	3590.0	3568.0	3576.9
5°	3470.8	3453.2	3431.2	3373.8	3417.9	3453.2	3435.5	3431.2
7.5°	3338.5	3276.5	3307.5	3289.9	3281.0	3316.3	3276.5	3320.7
10°	3201.5	3157.3	3153.0	3122.0	3122.0	3148.5	3153.0	3126.4
12.5°	2998.3	2976.4	2976.4	2971.9	2967.4	2994.0	2998.3	2985.2
15°	2852.7	2843.9	2821.7	2817.4	2790.9	2830.5	2835.0	2830.5
17.5°	2676.0	2680.4	2658.4	2658.4	2676.0	2689.2	2653.9	2689.2
20°	2556.8	2534.7	2525.9	2486.1	2508.2	2530.4	2530.4	2534.7
22.5°	2384.5	2349.2	2362.6	2340.4	2327.1	2358.1	2358.1	2371.4
25°	2190.2	2190.2	2199.1	2185.9	2194.7	2212.4	2199.1	2230.0
27.5°	2004.8	2022.4	2022.4	2004.8	2013.6	2066.5	2088.7	2053.4
30°	1832.6	1837.0	1850.3	1841.5	1867.9	1885.6	1881.1	1907.7
32.5°	1638.4	1660.3	1669.1	1656.0	1664.8	1704.4	1682.5	1678.0
35°	1488.2	1448.4	1444.1	1448.4	1466.0	1474.9	1466.0	1497.0
37.5°	1271.8	1258.4	1240.8	1245.3	1258.4	1276.3	1285.1	1307.1
40°	1064.2	1046.5	1046.5	1042.2	1028.9	1077.5	1077.5	1077.5
42.5°	883.2	878.7	856.7	856.7	874.4	887.5	878.7	909.7
45°	724.2	706.6	693.2	693.2	706.6	706.6	719.9	715.4
47.5°	569.7	552.1	556.4	543.2	556.4	574.0	552.1	556.4
50°	428.4	428.4	419.5	428.4	423.9	428.4	419.5	410.7
52.5°	291.5	331.1	335.6	318.0	278.2	242.9	220.8	238.4
55°	167.8	150.2	150.2	145.7	136.8	132.5	119.2	132.5
57.5°	83.9	75.1	75.1	75.1	70.6	66.3	57.4	57.4
60°	35.3	31.0	31.0	26.5	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)