

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: **LD4C60D010 EX4C609027 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: LD4C60D010 EX4C609027 4LBSQLWWLI  
Description: 4 INCH 6000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBSQLWW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

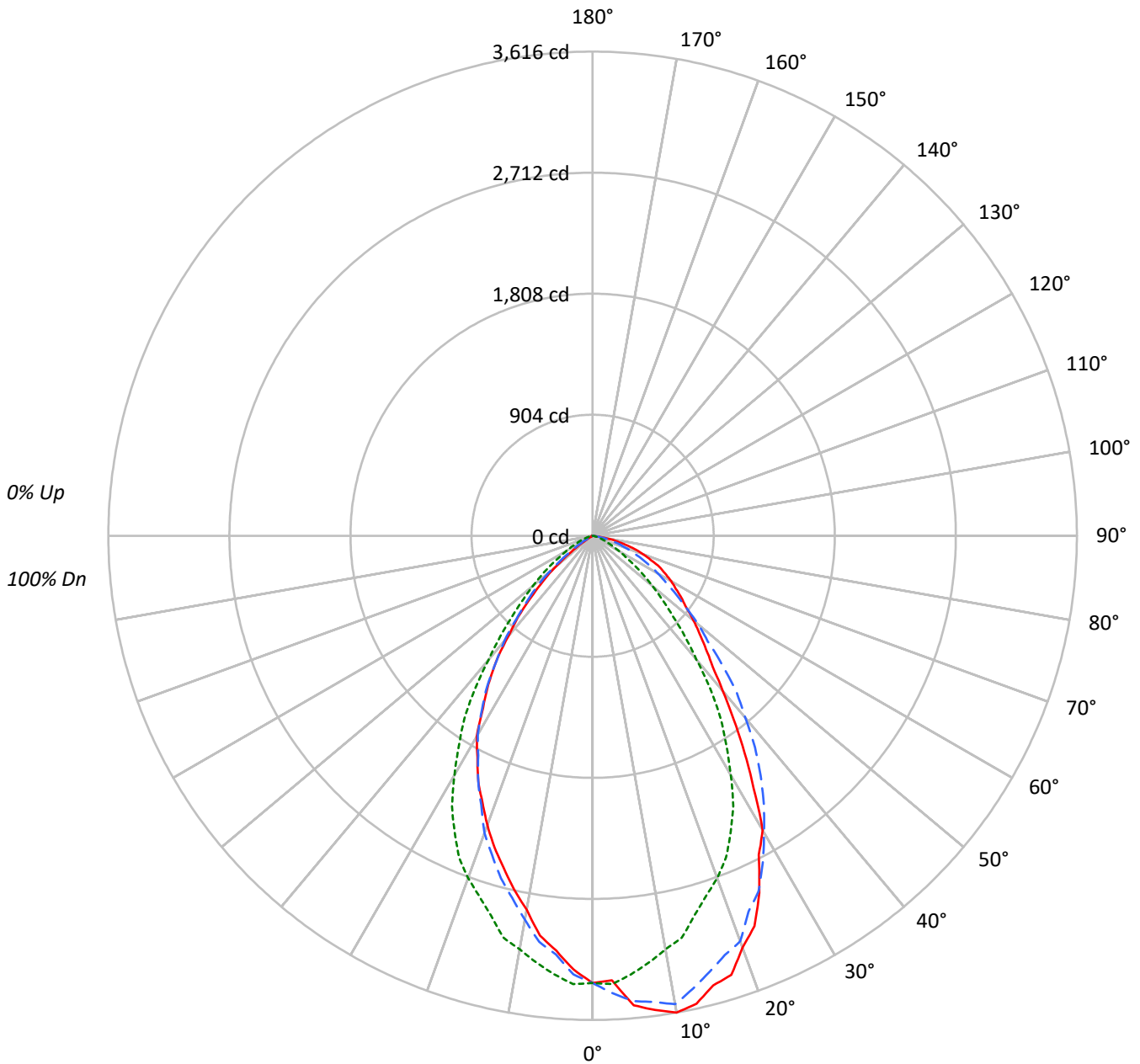
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4787.0 lumens  
Efficiency: N/A  
Efficacy: 66.5 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  
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: LD4C60D010 EX4C609027 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°	322225	322225	322225
5°	340919	318429	301362
10°	354276	307198	277766
15°	347197	293195	256394
20°	335932	279180	236013
25°	313344	259622	215291
30°	282862	229762	192738
35°	233003	196688	159902
40°	190158	151816	123073
45°	163379	115305	88519
50°	147873	87769	55901
55°	136076	63319	20220
60°	130607	43266	3088
65°	126142	29270	936
70°	112959	20312	1157
75°	92567	10476	0
80°	57900	4445	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	312.9	6.5
10°-20°	843.0	17.6
20°-30°	1125.7	23.5
30°-40°	1068.6	22.3
40°-50°	738.6	15.4
50°-60°	408.1	8.5
60°-70°	202.7	4.2
70°-80°	79.9	1.7
80°-90°	7.6	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°	2281.5	47.7
0°-40°	3350.1	70.0
0°-60°	4496.9	93.9
0°-90°	4787.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4787.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3340	3340	3340	3340	3340	
5°	3520	3488	3288	3139	3111	337
15°	3476	3372	2935	2647	2567	983
25°	2943	2931	2439	2022	2022	1342
35°	1978	2186	1670	1374	1358	1239
45°	1197	1374	845	693	649	934
55°	809	761	376	192	120	728
65°	552	400	128	4	4	536
75°	248	152	28	0	0	265
85°	0	4	0	0	0	23
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°	3339.5	3339.5	3339.5	3339.5	3339.5	3339.5	3339.5	3339.5	3339.5	3339.5	3339.5
2.5°	3323.5	3415.6	3423.6	3415.6	3427.7	3423.6	3443.7	3423.6	3447.8	3411.7	3419.7
5°	3519.8	3483.7	3559.8	3519.8	3519.8	3515.9	3503.8	3499.7	3515.9	3463.8	3487.8
7.5°	3571.9	3623.9	3692.0	3607.9	3611.9	3611.9	3587.9	3579.9	3579.9	3483.7	3511.8
10°	3615.9	3583.8	3619.9	3587.9	3615.9	3611.9	3627.9	3575.8	3611.9	3555.9	3551.8
12.5°	3579.9	3567.8	3615.9	3563.9	3547.9	3551.8	3531.9	3519.8	3531.9	3467.7	3463.8
15°	3475.7	3487.8	3559.8	3503.8	3495.8	3487.8	3463.8	3423.6	3455.8	3367.6	3371.7
17.5°	3439.8	3419.7	3431.8	3383.6	3395.7	3387.7	3383.6	3347.7	3339.5	3283.5	3283.5
20°	3271.6	3315.5	3315.5	3283.5	3283.5	3279.6	3227.5	3259.5	3223.4	3207.4	3223.4
22.5°	3155.3	3159.4	3159.4	3131.3	3135.4	3119.4	3091.3	3071.3	3091.3	3071.3	3039.3
25°	2943.2	2951.2	2999.2	2947.2	2939.2	2955.2	2931.2	2919.1	2915.2	2867.2	2931.2
27.5°	2686.9	2766.9	2763.0	2742.9	2766.9	2734.9	2723.0	2726.9	2739.0	2734.9	2750.9
30°	2538.8	2550.7	2562.8	2546.8	2550.7	2538.8	2538.8	2542.7	2574.7	2562.8	2558.7
32.5°	2238.4	2278.4	2310.5	2310.5	2314.5	2326.5	2322.5	2406.6	2426.6	2386.6	2378.6
35°	1978.1	2006.2	2034.1	2038.2	2090.3	2094.2	2098.3	2122.3	2178.3	2190.4	2186.3
37.5°	1729.9	1757.8	1765.8	1801.9	1830.0	1857.9	1890.1	1922.1	1970.1	2010.1	1990.2
40°	1509.7	1521.6	1541.7	1557.7	1613.7	1613.7	1629.7	1693.8	1745.9	1777.9	1773.9
42.5°	1325.5	1329.4	1345.4	1373.5	1425.6	1413.5	1425.6	1469.7	1545.6	1549.7	1593.8
45°	1197.3	1193.2	1205.3	1209.2	1241.4	1257.4	1265.4	1297.4	1361.4	1369.4	1373.5
47.5°	1081.2	1077.1	1097.2	1105.2	1117.1	1133.1	1133.1	1137.2	1161.2	1181.3	1165.3
50°	985.1	985.1	985.1	993.1	1013.1	1009.1	1013.1	1029.1	1041.1	1033.1	1029.1
52.5°	880.9	896.9	909.0	913.0	917.0	917.0	921.0	913.0	909.0	896.9	872.9
55°	808.9	824.9	824.9	824.9	824.9	840.9	821.0	824.9	824.9	792.9	760.9
57.5°	736.9	752.9	764.8	748.8	764.8	748.8	740.8	736.9	728.7	696.7	648.7
60°	676.8	684.8	680.7	676.8	684.8	672.7	664.7	648.7	640.7	596.6	564.6
62.5°	608.7	612.6	616.7	608.7	600.7	596.6	580.6	556.6	540.6	504.5	476.4
65°	552.5	540.6	536.5	532.6	524.6	512.5	500.6	472.5	460.4	428.4	400.4
67.5°	468.4	464.5	472.5	460.4	440.5	440.5	428.4	404.4	376.4	356.4	328.4
70°	400.4	396.4	388.4	376.4	372.4	356.4	356.4	328.4	320.4	284.3	260.3
72.5°	328.4	328.4	316.3	304.3	292.3	284.3	280.3	260.3	248.3	228.3	208.2
75°	248.3	248.3	244.3	232.2	224.2	216.2	212.3	196.3	184.2	164.3	152.2
77.5°	176.2	176.2	160.2	152.2	156.1	148.1	140.1	136.2	132.1	120.2	104.2
80°	104.2	100.1	88.2	92.1	88.2	88.2	84.1	80.0	72.0	64.0	56.0
82.5°	28.1	32.0	32.0	32.0	36.1	28.1	28.1	28.1	32.0	32.0	20.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.1	4.1	4.1
87.5°	4.1	8.0	16.0	16.0	16.0	16.0	16.0	12.1	12.1	12.1	8.0
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3339.5	3339.5	3339.5	3339.5	3339.5	3339.5	3339.5	3339.5	3339.5	3339.5	3339.5
2.5°	3379.7	3375.6	3379.7	3351.6	3415.6	3367.6	3359.6	3351.6	3379.7	3351.6	3311.6
5°	3451.7	3411.7	3399.6	3387.7	3423.6	3367.6	3355.7	3359.6	3339.5	3287.6	3291.5
7.5°	3475.7	3439.8	3403.7	3327.6	3359.6	3347.7	3315.5	3291.5	3259.5	3215.4	3207.4
10°	3483.7	3443.7	3391.6	3367.6	3319.6	3303.6	3291.5	3251.5	3211.5	3135.4	3115.3
12.5°	3459.7	3411.7	3347.7	3327.6	3291.5	3239.4	3211.5	3171.3	3135.4	3075.3	3031.3
15°	3355.7	3315.5	3295.6	3227.5	3211.5	3179.3	3123.3	3067.3	3015.2	2935.1	2911.1
17.5°	3235.5	3219.5	3199.4	3147.3	3143.4	3111.4	3059.3	3011.2	2943.2	2819.0	2779.0
20°	3111.4	3111.4	3047.3	3027.3	3067.3	3003.2	2963.2	2919.1	2779.0	2718.9	2646.9
22.5°	3019.3	2975.2	2939.2	2907.2	2911.1	2871.1	2815.1	2726.9	2674.8	2602.8	2518.7
25°	2839.1	2855.1	2775.1	2763.0	2775.1	2682.8	2654.9	2582.7	2506.6	2438.6	2374.5
27.5°	2726.9	2682.8	2630.9	2586.8	2586.8	2550.7	2470.7	2454.7	2338.5	2274.5	2194.3
30°	2558.7	2526.7	2482.6	2418.6	2410.6	2382.5	2318.5	2278.4	2158.4	2062.2	2018.1
32.5°	2346.5	2334.5	2298.5	2226.5	2202.4	2170.3	2090.3	2022.2	1966.2	1857.9	1806.0
35°	2194.3	2150.4	2074.3	2014.2	1994.1	1938.1	1873.9	1825.9	1765.8	1669.8	1601.8
37.5°	1966.2	1922.1	1849.9	1777.9	1777.9	1721.9	1633.8	1585.8	1501.7	1445.5	1389.5
40°	1765.8	1709.8	1637.8	1553.7	1541.7	1461.5	1425.6	1345.4	1293.3	1205.3	1197.3
42.5°	1541.7	1489.6	1425.6	1361.4	1313.4	1273.4	1181.3	1121.2	1065.2	1021.1	1009.1
45°	1337.4	1269.3	1213.3	1133.1	1085.1	1037.1	977.1	937.0	893.0	845.0	816.9
47.5°	1161.2	1105.2	1025.1	953.1	905.0	880.9	812.8	768.9	732.8	700.8	680.7
50°	981.1	913.0	869.0	788.8	780.8	724.8	668.8	632.7	612.6	584.7	556.6
52.5°	845.0	780.8	720.7	660.8	628.6	608.7	556.6	520.5	492.6	472.5	456.5
55°	712.7	656.7	608.7	548.6	528.5	500.6	440.5	432.5	404.4	376.4	356.4
57.5°	612.6	560.5	504.5	464.5	428.4	408.5	360.4	328.4	312.3	288.3	268.3
60°	520.5	464.5	420.4	372.4	356.4	328.4	292.3	264.3	244.3	224.2	204.3
62.5°	436.4	388.4	340.4	300.3	276.3	260.3	232.2	208.2	188.3	172.3	156.1
65°	360.4	316.3	276.3	236.3	224.2	204.3	184.2	164.3	148.1	128.2	112.2
67.5°	296.3	256.3	216.2	188.3	176.2	168.2	144.2	124.1	112.2	100.1	84.1
70°	232.2	204.3	172.3	148.1	136.2	124.1	108.1	96.2	80.0	72.0	60.1
72.5°	180.3	156.1	128.2	108.1	100.1	92.1	76.1	64.0	56.0	48.0	40.0
75°	128.2	108.1	92.1	72.0	68.1	64.0	52.1	44.1	36.1	28.1	24.0
77.5°	88.2	72.0	56.0	48.0	44.1	36.1	32.0	24.0	20.1	16.0	12.1
80°	48.0	36.1	28.1	24.0	20.1	16.0	16.0	12.1	8.0	8.0	4.1
82.5°	16.0	12.1	8.0	4.1	4.1	4.1	4.1	4.1	4.1	0.0	4.1
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°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	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°	3339.5	3339.5	3339.5	3339.5	3339.5	3339.5	3339.5	3339.5	3339.5	3339.5	3339.5
2.5°	3335.6	3291.5	3303.6	3303.6	3295.6	3295.6	3287.6	3275.5	3279.6	3255.4	3203.5
5°	3299.5	3243.5	3235.5	3243.5	3211.5	3203.5	3187.5	3211.5	3139.3	3167.4	3135.4
7.5°	3195.5	3143.4	3131.3	3159.4	3119.4	3095.3	3091.3	3123.3	3059.3	3027.3	2991.2
10°	3079.3	3059.3	3023.2	3003.2	2991.2	2995.2	2963.2	2923.2	2911.1	2903.1	2871.1
12.5°	2975.2	2931.2	2899.2	2875.2	2867.2	2867.2	2815.1	2807.1	2771.0	2763.0	2715.0
15°	2851.0	2799.1	2779.0	2747.0	2718.9	2734.9	2674.8	2658.8	2646.9	2594.8	2602.8
17.5°	2742.9	2686.9	2638.9	2618.8	2594.8	2570.8	2514.6	2526.7	2498.6	2498.6	2426.6
20°	2602.8	2542.7	2506.6	2466.6	2466.6	2434.6	2394.6	2398.5	2362.5	2326.5	2262.4
22.5°	2454.7	2390.5	2346.5	2330.5	2290.5	2282.5	2234.5	2222.4	2174.4	2178.3	2122.3
25°	2298.5	2234.5	2174.4	2178.3	2142.4	2126.4	2098.3	2042.3	2022.2	1998.2	1982.2
27.5°	2114.3	2070.2	2018.1	2014.2	1946.1	1950.0	1914.1	1898.1	1849.9	1862.0	1825.9
30°	1946.1	1882.1	1833.9	1822.0	1793.9	1785.9	1729.9	1705.8	1713.9	1681.8	1661.8
32.5°	1773.9	1677.8	1657.8	1633.8	1617.8	1597.7	1557.7	1573.7	1537.6	1545.6	1513.6
35°	1545.6	1505.6	1453.5	1453.5	1437.5	1421.5	1393.6	1409.6	1373.5	1357.5	1325.5
37.5°	1353.4	1317.5	1265.4	1281.4	1253.3	1229.3	1205.3	1209.2	1177.2	1173.3	1141.2
40°	1145.2	1125.1	1089.2	1089.2	1069.1	1069.1	1057.1	1045.1	1025.1	1001.1	965.0
42.5°	949.0	933.0	917.0	921.0	893.0	917.0	885.0	905.0	840.9	837.0	812.8
45°	804.8	768.9	772.8	756.8	740.8	748.8	720.7	728.7	692.8	684.8	660.8
47.5°	652.8	640.7	616.7	608.7	608.7	596.6	584.7	580.6	564.6	544.5	512.5
50°	536.5	492.6	484.4	472.5	464.5	464.5	448.5	424.5	428.4	408.5	376.4
52.5°	420.4	384.4	368.4	364.4	348.4	340.4	320.4	304.3	292.3	284.3	264.3
55°	324.3	292.3	272.3	272.3	248.3	248.3	220.3	208.2	192.2	176.2	164.3
57.5°	244.3	228.3	208.2	192.2	184.2	164.3	148.1	128.2	116.1	92.1	76.1
60°	184.2	168.2	148.1	136.2	128.2	108.1	88.2	72.0	44.1	36.1	32.0
62.5°	136.2	120.2	100.1	92.1	84.1	68.1	48.0	24.0	12.1	12.1	12.1
65°	100.1	80.0	64.0	56.0	48.0	36.1	16.0	8.0	4.1	4.1	4.1
67.5°	68.1	52.1	36.1	32.0	24.0	12.1	4.1	4.1	4.1	4.1	4.1
70°	44.1	32.0	16.0	12.1	8.0	4.1	4.1	4.1	4.1	4.1	4.1
72.5°	28.1	16.0	8.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	16.0	8.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	4.1	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	4.1	4.1	4.1
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: LD4C60D010 EX4C609027 4LBSQLWWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3339.5	3339.5	3339.5	3339.5	3339.5	3339.5	3339.5	3339.5
2.5°	3259.5	3231.4	3247.4	3211.5	3227.5	3255.4	3235.5	3243.5
5°	3147.3	3131.3	3111.4	3059.3	3099.3	3131.3	3115.3	3111.4
7.5°	3027.3	2971.2	2999.2	2983.2	2975.2	3007.2	2971.2	3011.2
10°	2903.1	2863.1	2859.2	2831.1	2831.1	2855.1	2859.2	2835.0
12.5°	2718.9	2699.0	2699.0	2694.9	2690.8	2715.0	2718.9	2707.0
15°	2586.8	2578.8	2558.7	2554.8	2530.8	2566.7	2570.8	2566.7
17.5°	2426.6	2430.6	2410.6	2410.6	2426.6	2438.6	2406.6	2438.6
20°	2318.5	2298.5	2290.5	2254.4	2274.5	2294.5	2294.5	2298.5
22.5°	2162.3	2130.3	2142.4	2122.3	2110.2	2138.3	2138.3	2150.4
25°	1986.1	1986.1	1994.1	1982.2	1990.2	2006.2	1994.1	2022.2
27.5°	1817.9	1833.9	1833.9	1817.9	1825.9	1873.9	1894.0	1862.0
30°	1661.8	1665.8	1677.8	1669.8	1693.8	1709.8	1705.8	1729.9
32.5°	1485.7	1505.6	1513.6	1501.7	1509.7	1545.6	1525.7	1521.6
35°	1349.5	1313.4	1309.5	1313.4	1329.4	1337.4	1329.4	1357.5
37.5°	1153.2	1141.2	1125.1	1129.2	1141.2	1157.3	1165.3	1185.2
40°	965.0	949.0	949.0	945.0	933.0	977.1	977.1	977.1
42.5°	800.9	796.8	776.9	776.9	792.9	804.8	796.8	824.9
45°	656.7	640.7	628.6	628.6	640.7	640.7	652.8	648.7
47.5°	516.6	500.6	504.5	492.6	504.5	520.5	500.6	504.5
50°	388.4	388.4	380.4	388.4	384.4	388.4	380.4	372.4
52.5°	264.3	300.3	304.3	288.3	252.3	220.3	200.2	216.2
55°	152.2	136.2	136.2	132.1	124.1	120.2	108.1	120.2
57.5°	76.1	68.1	68.1	68.1	64.0	60.1	52.1	52.1
60°	32.0	28.1	28.1	24.0	20.1	16.0	12.1	16.0
62.5°	12.1	8.0	8.0	8.0	8.0	8.0	8.0	8.0
65°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
67.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
70°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
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)