

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: **LD4C90D010 EX4C909027 4LBSQLWWH**

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: LD4C90D010 EX4C909027 4LBSQLWWH  
Description: 4 INCH 9000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS  
AND 4LBSQLWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

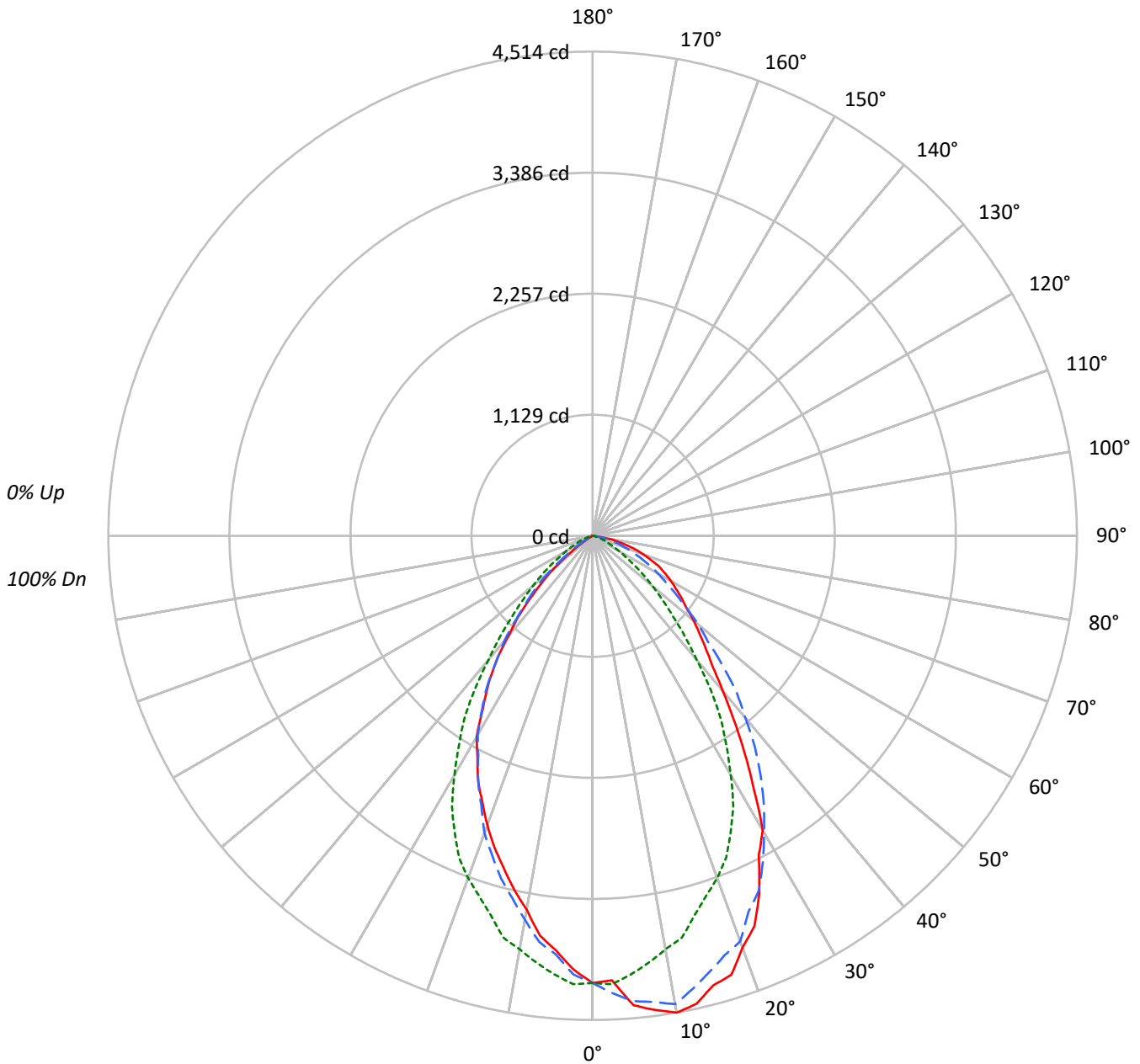
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5976.0 lumens  
Efficiency: N/A  
Efficacy: 61.5 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): 97.1  
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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### 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°	402262	402262	402262
5°	425592	397522	376214
10°	442280	383503	346762
15°	433434	366017	320086
20°	419371	348521	294634
25°	391180	324097	268768
30°	353121	286829	240614
35°	290874	245548	199621
40°	237379	189528	153630
45°	203961	143934	110502
50°	184590	109565	69786
55°	169872	79031	25233
60°	163047	54014	3860
65°	157490	36530	1164
70°	141001	25362	1439
75°	115569	13085	0
80°	72235	5557	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	390.6	6.5
10°-20°	1052.4	17.6
20°-30°	1405.3	23.5
30°-40°	1334.0	22.3
40°-50°	922.1	15.4
50°-60°	509.5	8.5
60°-70°	253.0	4.2
70°-80°	99.7	1.7
80°-90°	9.5	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°	2848.2	47.7
0°-40°	4182.2	70.0
0°-60°	5613.8	93.9
0°-90°	5976.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5976.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	4169	4169	4169	4169	4169	
5°	4394	4354	4104	3919	3884	421
15°	4339	4209	3664	3304	3204	1227
25°	3674	3659	3044	2524	2524	1675
35°	2469	2729	2085	1715	1695	1547
45°	1495	1715	1055	865	810	1166
55°	1010	950	470	240	150	909
65°	690	500	160	5	5	670
75°	310	190	35	0	0	330
85°	0	5	0	0	0	29
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°	4169.0	4169.0	4169.0	4169.0	4169.0	4169.0	4169.0	4169.0	4169.0	4169.0	4169.0
2.5°	4149.0	4264.0	4274.0	4264.0	4279.1	4274.0	4299.0	4274.0	4304.1	4259.1	4269.1
5°	4394.0	4349.0	4444.0	4394.0	4394.0	4389.1	4374.0	4369.0	4389.1	4324.1	4354.1
7.5°	4459.0	4524.1	4609.1	4504.1	4509.0	4509.0	4479.0	4469.0	4469.0	4349.0	4384.0
10°	4514.1	4473.9	4519.0	4479.0	4514.1	4509.0	4529.0	4463.9	4509.0	4439.1	4434.0
12.5°	4469.0	4454.0	4514.1	4449.1	4429.1	4434.0	4409.1	4394.0	4409.1	4329.0	4324.1
15°	4339.0	4354.1	4444.0	4374.0	4364.1	4354.1	4324.1	4274.0	4314.1	4204.1	4209.1
17.5°	4294.1	4269.1	4284.2	4224.0	4239.1	4229.1	4224.0	4179.2	4169.0	4099.1	4099.1
20°	4084.2	4139.0	4139.0	4099.1	4099.1	4094.2	4029.2	4069.1	4024.1	4004.1	4024.1
22.5°	3939.1	3944.2	3944.2	3909.1	3914.2	3894.2	3859.2	3834.1	3859.2	3834.1	3794.1
25°	3674.3	3684.3	3744.2	3679.2	3669.2	3689.2	3659.2	3644.1	3639.2	3579.3	3659.2
27.5°	3354.3	3454.2	3449.3	3424.2	3454.2	3414.2	3399.3	3404.2	3419.3	3414.2	3434.2
30°	3169.4	3184.3	3199.4	3179.4	3184.3	3169.4	3169.4	3174.3	3214.2	3199.4	3194.3
32.5°	2794.3	2844.3	2884.4	2884.4	2889.3	2904.4	2899.3	3004.3	3029.4	2979.4	2969.4
35°	2469.4	2504.5	2539.4	2544.4	2609.5	2614.4	2619.5	2649.4	2719.3	2734.4	2729.3
37.5°	2159.6	2194.5	2204.5	2249.5	2284.6	2319.4	2359.6	2399.5	2459.4	2509.4	2484.5
40°	1884.6	1899.5	1924.6	1944.6	2014.5	2014.5	2034.5	2114.6	2179.6	2219.5	2214.4
42.5°	1654.7	1659.6	1679.6	1714.6	1779.7	1764.6	1779.7	1834.7	1929.5	1934.6	1989.6
45°	1494.7	1489.6	1504.7	1509.6	1549.7	1569.7	1579.7	1619.7	1699.6	1709.5	1714.6
47.5°	1349.8	1344.7	1369.8	1379.7	1394.6	1414.6	1414.6	1419.7	1449.7	1474.7	1454.8
50°	1229.7	1229.7	1229.7	1239.7	1264.8	1259.7	1264.8	1284.8	1299.6	1289.7	1284.8
52.5°	1099.7	1119.7	1134.7	1139.8	1144.7	1144.7	1149.8	1139.8	1134.7	1119.7	1089.7
55°	1009.8	1029.8	1029.8	1029.8	1029.8	1049.7	1024.9	1029.8	1029.8	989.8	949.9
57.5°	919.9	939.9	954.8	934.8	954.8	934.8	924.8	919.9	909.7	869.8	809.8
60°	844.9	854.9	849.8	844.9	854.9	839.8	829.8	809.8	799.8	744.8	704.9
62.5°	759.9	764.8	769.9	759.9	749.9	744.8	724.8	694.9	674.9	629.8	594.8
65°	689.8	674.9	669.8	664.9	654.9	639.8	624.9	589.9	574.8	534.9	499.8
67.5°	584.8	579.9	589.9	574.8	549.9	549.9	534.9	504.9	469.8	445.0	409.9
70°	499.8	494.9	484.9	469.8	464.9	445.0	445.0	409.9	399.9	354.9	324.9
72.5°	409.9	409.9	394.8	379.9	364.9	354.9	350.0	324.9	310.0	285.0	259.9
75°	310.0	310.0	304.9	289.9	279.9	269.9	265.0	245.0	229.9	205.1	190.0
77.5°	219.9	219.9	200.0	190.0	194.9	184.9	174.9	170.0	164.9	150.0	130.0
80°	130.0	125.0	110.1	115.0	110.1	110.1	105.0	99.9	89.9	79.9	69.9
82.5°	35.1	40.0	40.0	40.0	45.0	35.1	35.1	35.1	40.0	40.0	25.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.1	5.1	5.1
87.5°	5.1	10.0	20.0	20.0	20.0	20.0	20.0	15.1	15.1	15.1	10.0
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°	4169.0	4169.0	4169.0	4169.0	4169.0	4169.0	4169.0	4169.0	4169.0	4169.0	4169.0
2.5°	4219.1	4214.0	4219.1	4184.1	4264.0	4204.1	4194.1	4184.1	4219.1	4184.1	4134.1
5°	4309.0	4259.1	4244.0	4229.1	4274.0	4204.1	4189.2	4194.1	4169.0	4104.2	4109.1
7.5°	4339.0	4294.1	4249.1	4154.1	4194.1	4179.2	4139.0	4109.1	4069.1	4014.1	4004.1
10°	4349.0	4299.0	4234.0	4204.1	4144.1	4124.1	4109.1	4059.1	4009.2	3914.2	3889.1
12.5°	4319.0	4259.1	4179.2	4154.1	4109.1	4044.0	4009.2	3959.0	3914.2	3839.2	3784.2
15°	4189.2	4139.0	4114.2	4029.2	4009.2	3969.0	3899.1	3829.2	3764.2	3664.1	3634.1
17.5°	4039.1	4019.2	3994.1	3929.1	3924.2	3884.2	3819.2	3759.1	3674.3	3519.2	3469.2
20°	3884.2	3884.2	3804.1	3779.3	3829.2	3749.1	3699.2	3644.1	3469.2	3394.2	3304.3
22.5°	3769.3	3714.2	3669.2	3629.2	3634.1	3584.2	3514.3	3404.2	3339.2	3249.3	3144.3
25°	3544.2	3564.2	3464.3	3449.3	3464.3	3349.2	3314.3	3224.2	3129.2	3044.2	2964.3
27.5°	3404.2	3349.2	3284.4	3229.3	3229.3	3184.3	3084.4	3064.4	2919.3	2839.4	2739.3
30°	3194.3	3154.3	3099.3	3019.4	3009.4	2974.3	2894.4	2844.3	2694.5	2574.4	2519.4
32.5°	2929.3	2914.4	2869.4	2779.5	2749.5	2709.3	2609.5	2524.5	2454.5	2319.4	2254.6
35°	2739.3	2684.5	2589.5	2514.5	2489.4	2419.5	2339.4	2279.5	2204.5	2084.6	1999.6
37.5°	2454.5	2399.5	2309.4	2219.5	2219.5	2149.6	2039.6	1979.6	1874.6	1804.5	1734.6
40°	2204.5	2134.5	2044.6	1939.7	1924.6	1824.5	1779.7	1679.6	1614.6	1504.7	1494.7
42.5°	1924.6	1859.6	1779.7	1699.6	1639.6	1589.7	1474.7	1399.7	1329.8	1274.8	1259.7
45°	1669.6	1584.6	1514.7	1414.6	1354.7	1294.7	1219.7	1169.8	1114.8	1054.8	1019.8
47.5°	1449.7	1379.7	1279.7	1189.8	1129.8	1099.7	1014.7	959.8	914.8	874.8	849.8
50°	1224.8	1139.8	1084.8	984.7	974.7	904.8	834.9	789.9	764.8	729.9	694.9
52.5°	1054.8	974.7	899.7	824.9	784.8	759.9	694.9	649.8	615.0	589.9	569.9
55°	889.7	819.8	759.9	684.9	659.8	624.9	549.9	540.0	504.9	469.8	445.0
57.5°	764.8	699.8	629.8	579.9	534.9	510.0	449.9	409.9	389.9	360.0	334.9
60°	649.8	579.9	524.9	464.9	445.0	409.9	364.9	330.0	304.9	279.9	255.0
62.5°	544.8	484.9	425.0	374.9	344.9	324.9	289.9	259.9	235.0	215.0	194.9
65°	449.9	394.8	344.9	294.9	279.9	255.0	229.9	205.1	184.9	160.0	140.0
67.5°	370.0	320.0	269.9	235.0	219.9	209.9	180.0	154.9	140.0	125.0	105.0
70°	289.9	255.0	215.0	184.9	170.0	154.9	134.9	120.1	99.9	89.9	75.0
72.5°	225.0	194.9	160.0	134.9	125.0	115.0	95.0	79.9	69.9	59.9	49.9
75°	160.0	134.9	115.0	89.9	85.0	79.9	65.0	55.0	45.0	35.1	30.0
77.5°	110.1	89.9	69.9	59.9	55.0	45.0	40.0	30.0	25.1	20.0	15.1
80°	59.9	45.0	35.1	30.0	25.1	20.0	20.0	15.1	10.0	10.0	5.1
82.5°	20.0	15.1	10.0	5.1	5.1	5.1	5.1	5.1	5.1	0.0	5.1
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°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	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°	4169.0	4169.0	4169.0	4169.0	4169.0	4169.0	4169.0	4169.0	4169.0	4169.0	4169.0
2.5°	4164.1	4109.1	4124.1	4124.1	4114.2	4114.2	4104.2	4089.1	4094.2	4064.0	3999.2
5°	4119.1	4049.1	4039.1	4049.1	4009.2	3999.2	3979.2	4009.2	3919.1	3954.2	3914.2
7.5°	3989.2	3924.2	3909.1	3944.2	3894.2	3864.1	3859.2	3899.1	3819.2	3779.3	3734.2
10°	3844.1	3819.2	3774.2	3749.1	3734.2	3739.1	3699.2	3649.2	3634.1	3624.1	3584.2
12.5°	3714.2	3659.2	3619.3	3589.3	3579.3	3579.3	3514.3	3504.3	3459.2	3449.3	3389.3
15°	3559.1	3494.3	3469.2	3429.3	3394.2	3414.2	3339.2	3319.2	3304.3	3239.3	3249.3
17.5°	3424.2	3354.3	3294.3	3269.3	3239.3	3209.3	3139.2	3154.3	3119.3	3119.3	3029.4
20°	3249.3	3174.3	3129.2	3079.3	3079.3	3039.3	2989.4	2994.3	2949.3	2904.4	2824.3
22.5°	3064.4	2984.3	2929.3	2909.3	2859.4	2849.4	2789.4	2774.4	2714.4	2719.3	2649.4
25°	2869.4	2789.4	2714.4	2719.3	2674.5	2654.5	2619.5	2549.5	2524.5	2494.5	2474.5
27.5°	2639.4	2584.4	2519.4	2514.5	2429.5	2434.4	2389.5	2369.6	2309.4	2324.5	2279.5
30°	2429.5	2349.6	2289.5	2274.6	2239.5	2229.5	2159.6	2129.4	2139.6	2099.5	2074.6
32.5°	2214.4	2094.6	2069.5	2039.6	2019.6	1994.5	1944.6	1964.5	1919.5	1929.5	1889.5
35°	1929.5	1879.5	1814.5	1814.5	1794.5	1774.6	1739.7	1759.7	1714.6	1694.7	1654.7
37.5°	1689.6	1644.7	1579.7	1599.7	1564.6	1534.7	1504.7	1509.6	1469.6	1464.7	1424.6
40°	1429.7	1404.6	1359.8	1359.8	1334.7	1334.7	1319.6	1304.7	1279.7	1249.7	1204.7
42.5°	1184.7	1164.7	1144.7	1149.8	1114.8	1144.7	1104.8	1129.8	1049.7	1044.8	1014.7
45°	1004.7	959.8	964.7	944.8	924.8	934.8	899.7	909.7	864.9	854.9	824.9
47.5°	814.9	799.8	769.9	759.9	759.9	744.8	729.9	724.8	704.9	679.8	639.8
50°	669.8	615.0	604.8	589.9	579.9	579.9	559.9	530.0	534.9	510.0	469.8
52.5°	524.9	479.8	459.8	455.0	435.0	425.0	399.9	379.9	364.9	354.9	330.0
55°	404.8	364.9	340.0	340.0	310.0	310.0	275.0	259.9	239.9	219.9	205.1
57.5°	304.9	285.0	259.9	239.9	229.9	205.1	184.9	160.0	144.9	115.0	95.0
60°	229.9	209.9	184.9	170.0	160.0	134.9	110.1	89.9	55.0	45.0	40.0
62.5°	170.0	150.0	125.0	115.0	105.0	85.0	59.9	30.0	15.1	15.1	15.1
65°	125.0	99.9	79.9	69.9	59.9	45.0	20.0	10.0	5.1	5.1	5.1
67.5°	85.0	65.0	45.0	40.0	30.0	15.1	5.1	5.1	5.1	5.1	5.1
70°	55.0	40.0	20.0	15.1	10.0	5.1	5.1	5.1	5.1	5.1	5.1
72.5°	35.1	20.0	10.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	20.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	10.0	5.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.1	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	5.1	5.1	5.1
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: LD4C90D010 EX4C909027 4LBSQLWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	4169.0	4169.0	4169.0	4169.0	4169.0	4169.0	4169.0	4169.0
2.5°	4069.1	4034.1	4054.0	4009.2	4029.2	4064.0	4039.1	4049.1
5°	3929.1	3909.1	3884.2	3819.2	3869.2	3909.1	3889.1	3884.2
7.5°	3779.3	3709.1	3744.2	3724.2	3714.2	3754.2	3709.1	3759.1
10°	3624.1	3574.2	3569.3	3534.3	3534.3	3564.2	3569.3	3539.2
12.5°	3394.2	3369.4	3369.4	3364.3	3359.2	3389.3	3394.2	3379.3
15°	3229.3	3219.3	3194.3	3189.4	3159.4	3204.3	3209.3	3204.3
17.5°	3029.4	3034.3	3009.4	3009.4	3029.4	3044.2	3004.3	3044.2
20°	2894.4	2869.4	2859.4	2814.3	2839.4	2864.5	2864.5	2869.4
22.5°	2699.4	2659.4	2674.5	2649.4	2634.3	2669.4	2669.4	2684.5
25°	2479.4	2479.4	2489.4	2474.5	2484.5	2504.5	2489.4	2524.5
27.5°	2269.5	2289.5	2289.5	2269.5	2279.5	2339.4	2364.5	2324.5
30°	2074.6	2079.5	2094.6	2084.6	2114.6	2134.5	2129.4	2159.6
32.5°	1854.7	1879.5	1889.5	1874.6	1884.6	1929.5	1904.6	1899.5
35°	1684.7	1639.6	1634.7	1639.6	1659.6	1669.6	1659.6	1694.7
37.5°	1439.7	1424.6	1404.6	1409.7	1424.6	1444.8	1454.8	1479.6
40°	1204.7	1184.7	1184.7	1179.8	1164.7	1219.7	1219.7	1219.7
42.5°	999.8	994.7	969.8	969.8	989.8	1004.7	994.7	1029.8
45°	819.8	799.8	784.8	784.8	799.8	799.8	814.9	809.8
47.5°	644.9	624.9	629.8	615.0	629.8	649.8	624.9	629.8
50°	484.9	484.9	474.9	484.9	479.8	484.9	474.9	464.9
52.5°	330.0	374.9	379.9	360.0	314.9	275.0	249.9	269.9
55°	190.0	170.0	170.0	164.9	154.9	150.0	134.9	150.0
57.5°	95.0	85.0	85.0	85.0	79.9	75.0	65.0	65.0
60°	40.0	35.1	35.1	30.0	25.1	20.0	15.1	20.0
62.5°	15.1	10.0	10.0	10.0	10.0	10.0	10.0	10.0
65°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
67.5°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
70°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
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)