

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: P879492

Luminaire Tested: **LD4C75D010 EU4759035 4LBDWWH**

Issue Date: 10/1/2024

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: P879492  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/1/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C75D010 EU4759035 4LBLDWWH  
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS  
AND 4LBLDWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

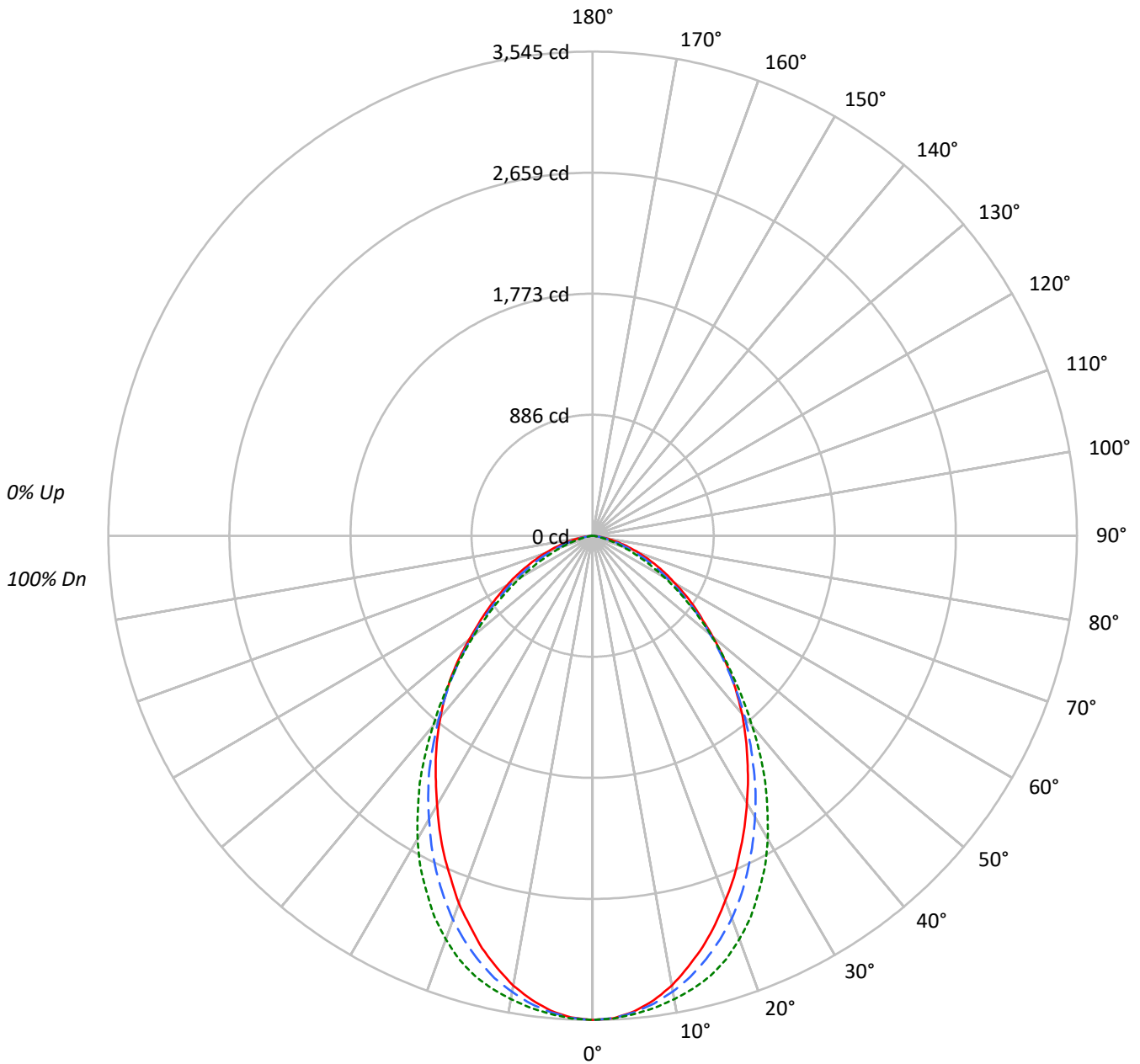
Lumens per Lamp: N/A  
Luminaire Lumens: 6341.0 lumens  
Efficiency: N/A  
Efficacy: 77.8 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1.1 / 1.12  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 81.5  
Input Voltage (V): NR  
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				20				
RC	80				70				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			100
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88			88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77			77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67			67
4	88	77	70	64	86	76	69	63	74	68	63	71	66	62	69	65	61	59			59
5	81	70	62	56	80	69	62	56	67	61	56	65	59	55	63	58	54	52			52
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47			47
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42			42
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38			38
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35			35
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32			32

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

	0°	90°	180°
0°	435528	435528	435528
5°	431099	433504	430618
10°	417072	429747	417234
15°	396252	424233	397575
20°	371400	410883	374460
25°	345906	389853	349078
30°	320431	363655	322843
35°	295618	330578	300118
40°	272684	291271	277703
45°	247008	252428	254479
50°	218973	216240	224439
55°	195190	182103	199667
60°	170815	147793	177228
65°	149505	114302	154796
70°	125792	83693	132329
75°	98257	54397	103810
80°	64452	28582	70890
85°	21990	12827	29319



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	330.9	5.2
10°-20°	904.2	14.3
20°-30°	1243.6	19.6
30°-40°	1297.4	20.5
40°-50°	1110.0	17.5
50°-60°	794.0	12.5
60°-70°	460.7	7.3
70°-80°	177.6	2.8
80°-90°	22.6	0.4
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°	2478.8	39.1
0°-40°	3776.2	59.6
0°-60°	5680.1	89.6
0°-90°	6341.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6341.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3545	3545	3545	3545	3545	
5°	3496	3502	3515	3502	3492	329
15°	3116	3209	3336	3221	3126	873
25°	2552	2692	2876	2709	2575	1174
35°	1971	2049	2204	2082	2001	1235
45°	1422	1410	1453	1445	1465	1096
55°	911	866	850	889	932	815
65°	514	454	393	470	532	513
75°	207	155	115	164	219	223
85°	16	12	9	13	21	30
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°	3545.1	3545.1	3545.1	3545.1	3545.1	3545.1	3545.1	3545.1	3545.1	3545.1	3545.1
2.5°	3536.0	3533.4	3534.7	3534.7	3534.7	3533.4	3536.0	3536.0	3534.7	3534.7	3534.7
5°	3495.7	3493.1	3494.4	3495.7	3495.7	3495.7	3497.0	3498.3	3499.6	3500.9	3502.2
7.5°	3430.6	3426.7	3430.6	3435.8	3435.8	3437.1	3438.4	3439.7	3443.6	3450.1	3454.0
10°	3343.3	3343.3	3344.6	3348.6	3355.1	3353.8	3357.7	3364.2	3372.0	3381.1	3387.6
12.5°	3232.7	3235.3	3239.2	3243.1	3249.6	3253.5	3260.0	3267.8	3280.9	3293.9	3308.2
15°	3115.5	3116.8	3118.1	3127.2	3133.7	3142.8	3148.1	3163.7	3175.4	3193.6	3209.2
17.5°	2984.0	2982.7	2986.6	2994.4	3010.0	3014.0	3020.5	3037.4	3054.3	3079.1	3099.9
20°	2840.8	2848.6	2853.8	2864.2	2873.3	2883.8	2889.0	2909.8	2929.3	2952.8	2980.1
22.5°	2705.4	2698.9	2708.0	2719.7	2727.5	2735.3	2744.5	2766.6	2787.4	2816.1	2843.4
25°	2551.8	2555.7	2562.2	2571.3	2581.7	2592.1	2602.5	2626.0	2637.7	2667.6	2692.4
27.5°	2406.0	2412.5	2415.1	2426.8	2435.9	2443.7	2448.9	2476.3	2486.7	2512.7	2537.5
30°	2258.8	2265.3	2265.3	2278.4	2284.9	2292.7	2305.7	2323.9	2339.6	2357.8	2376.0
32.5°	2116.9	2116.9	2122.1	2133.9	2140.4	2149.5	2153.4	2166.4	2182.0	2200.3	2219.8
35°	1971.1	1975.0	1980.2	1980.2	1991.9	1997.2	2002.4	2015.4	2025.8	2033.6	2049.2
37.5°	1837.0	1837.0	1833.1	1839.6	1847.4	1846.1	1853.9	1860.5	1867.0	1876.1	1889.1
40°	1700.3	1700.3	1695.1	1699.0	1704.2	1702.9	1700.3	1706.8	1712.0	1718.5	1731.6
42.5°	1561.0	1558.4	1557.1	1557.1	1559.7	1557.1	1559.7	1561.0	1561.0	1561.0	1568.8
45°	1421.7	1428.2	1420.4	1417.8	1413.9	1410.0	1408.7	1410.0	1415.2	1408.7	1410.0
47.5°	1285.0	1287.6	1282.4	1278.5	1274.6	1272.0	1274.6	1266.8	1269.4	1270.7	1265.5
50°	1145.7	1140.5	1140.5	1136.6	1137.9	1136.6	1134.0	1131.4	1131.4	1124.9	1121.0
52.5°	1016.8	1019.4	1022.0	1012.9	1014.2	1007.7	1009.0	1002.5	1002.5	994.7	997.3
55°	911.3	907.4	907.4	903.5	902.2	895.7	894.4	890.5	881.4	876.2	865.8
57.5°	802.0	800.7	795.5	796.8	789.0	787.7	785.1	778.6	772.0	765.5	753.8
60°	695.2	696.5	696.5	693.9	690.0	683.5	684.8	675.7	666.6	654.9	644.5
62.5°	606.7	602.8	601.5	598.9	591.1	591.1	584.6	578.1	568.9	557.2	548.1
65°	514.3	515.6	511.7	507.8	499.9	498.6	493.4	488.2	479.1	467.4	454.4
67.5°	430.9	428.3	427.0	423.1	415.3	414.0	410.1	398.4	390.6	378.9	368.4
70°	350.2	347.6	348.9	342.4	334.6	330.7	329.4	320.3	308.6	299.4	289.0
72.5°	274.7	274.7	273.4	266.9	263.0	260.4	255.2	244.8	238.3	227.8	220.0
75°	207.0	205.7	203.1	199.2	194.0	191.4	188.8	182.3	173.2	161.4	154.9
77.5°	143.2	144.5	141.9	140.6	134.1	130.2	128.9	125.0	117.2	109.4	102.9
80°	91.1	89.8	88.5	85.9	84.6	83.3	79.4	76.8	69.0	65.1	61.2
82.5°	49.5	46.9	46.9	45.6	43.0	41.7	40.4	37.8	36.5	33.9	31.2
85°	15.6	16.9	15.6	15.6	15.6	14.3	14.3	14.3	13.0	13.0	11.7
87.5°	1.3	2.6	1.3	1.3	2.6	1.3	1.3	2.6	1.3	1.3	2.6
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°	3545.1	3545.1	3545.1	3545.1	3545.1	3545.1	3545.1	3545.1	3545.1	3545.1	3545.1
2.5°	3534.7	3536.0	3536.0	3537.3	3537.3	3537.3	3537.3	3537.3	3537.3	3537.3	3537.3
5°	3506.1	3506.1	3508.7	3511.3	3511.3	3511.3	3512.6	3515.2	3515.2	3515.2	3513.9
7.5°	3459.2	3464.4	3469.6	3474.8	3476.1	3477.4	3480.0	3485.3	3485.3	3485.3	3485.3
10°	3398.0	3409.7	3416.3	3424.1	3428.0	3430.6	3438.4	3439.7	3443.6	3444.9	3443.6
12.5°	3319.9	3335.5	3349.9	3362.9	3368.1	3373.3	3381.1	3388.9	3392.8	3396.7	3395.4
15°	3232.7	3249.6	3271.7	3286.1	3296.5	3304.3	3316.0	3326.4	3332.9	3335.5	3335.5
17.5°	3127.2	3148.1	3171.5	3194.9	3201.4	3214.5	3227.5	3241.8	3249.6	3250.9	3249.6
20°	3010.0	3033.5	3053.0	3076.4	3090.8	3097.3	3115.5	3133.7	3141.5	3142.8	3141.5
22.5°	2870.7	2892.9	2918.9	2943.7	2955.4	2967.1	2986.6	3004.8	3015.3	3023.1	3015.3
25°	2715.8	2747.1	2771.8	2792.6	2809.6	2821.3	2846.0	2860.3	2877.3	2876.0	2877.3
27.5°	2563.5	2589.5	2616.9	2641.6	2652.0	2665.0	2684.6	2708.0	2722.3	2731.4	2730.1
30°	2407.3	2428.1	2451.5	2473.7	2490.6	2501.0	2529.6	2540.1	2558.3	2563.5	2559.6
32.5°	2241.9	2256.2	2279.7	2309.6	2316.1	2326.5	2344.8	2370.8	2377.3	2379.9	2381.2
35°	2066.2	2093.5	2113.0	2131.3	2136.5	2145.6	2166.4	2185.9	2192.4	2204.2	2199.0
37.5°	1903.4	1919.0	1928.2	1946.4	1962.0	1969.8	1980.2	1993.2	2006.3	2011.5	2010.2
40°	1740.7	1748.5	1756.3	1775.8	1777.1	1777.1	1792.8	1811.0	1811.0	1816.2	1816.2
42.5°	1574.0	1575.3	1585.7	1596.2	1598.8	1601.4	1617.0	1619.6	1627.4	1631.3	1636.5
45°	1412.6	1420.4	1426.9	1428.2	1434.7	1436.0	1439.9	1443.8	1455.6	1452.9	1455.6
47.5°	1265.5	1269.4	1273.3	1273.3	1277.2	1275.9	1282.4	1278.5	1286.3	1288.9	1292.8
50°	1121.0	1127.5	1123.6	1126.2	1124.9	1128.8	1126.2	1126.2	1126.2	1131.4	1135.3
52.5°	988.2	989.5	985.6	986.9	986.9	984.3	986.9	985.6	984.3	984.3	985.6
55°	865.8	860.6	858.0	852.8	846.3	854.1	850.2	847.6	852.8	850.2	852.8
57.5°	747.3	740.8	735.6	733.0	723.9	729.1	723.9	721.3	721.3	721.3	727.8
60°	635.3	628.8	622.3	614.5	613.2	610.6	608.0	601.5	602.8	601.5	604.1
62.5°	537.7	524.7	515.6	509.1	507.8	503.8	499.9	493.4	494.7	494.7	496.0
65°	447.9	433.5	420.5	411.4	411.4	404.9	398.4	398.4	390.6	393.2	394.5
67.5°	358.0	346.3	333.3	326.8	322.9	317.7	313.8	311.2	307.3	307.3	309.9
70°	277.3	265.6	259.1	248.7	247.4	243.5	238.3	234.3	233.0	233.0	231.7
72.5°	209.6	199.2	191.4	184.9	181.0	177.1	171.9	170.6	167.9	167.9	170.6
75°	145.8	139.3	132.8	126.3	123.7	122.4	118.5	115.9	115.9	114.6	115.9
77.5°	97.6	91.1	84.6	82.0	79.4	76.8	75.5	74.2	70.3	70.3	70.3
80°	56.0	53.4	50.8	46.9	46.9	45.6	43.0	41.7	40.4	40.4	40.4
82.5°	28.6	27.3	24.7	23.4	23.4	23.4	22.1	22.1	20.8	20.8	20.8
85°	11.7	10.4	9.1	9.1	9.1	9.1	9.1	9.1	10.4	9.1	10.4
87.5°	1.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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°	3545.1	3545.1	3545.1	3545.1	3545.1	3545.1	3545.1	3545.1	3545.1	3545.1	3545.1
2.5°	3537.3	3536.0	3536.0	3536.0	3536.0	3536.0	3534.7	3534.7	3533.4	3533.4	3533.4
5°	3515.2	3513.9	3512.6	3511.3	3510.0	3508.7	3507.4	3506.1	3502.2	3500.9	3498.3
7.5°	3484.0	3481.3	3477.4	3476.1	3473.5	3469.6	3464.4	3461.8	3456.6	3450.1	3447.5
10°	3442.3	3437.1	3433.2	3426.7	3425.4	3420.2	3407.1	3400.6	3391.5	3383.7	3374.6
12.5°	3391.5	3386.3	3377.2	3368.1	3362.9	3351.2	3339.4	3329.0	3317.3	3300.4	3287.4
15°	3329.0	3321.2	3303.0	3300.4	3292.6	3274.3	3258.7	3239.2	3221.0	3202.7	3187.1
17.5°	3245.7	3228.8	3219.7	3207.9	3198.8	3175.4	3158.5	3136.3	3111.6	3090.8	3068.6
20°	3136.3	3118.1	3102.5	3096.0	3084.3	3063.4	3042.6	3015.3	2990.5	2964.5	2945.0
22.5°	3006.1	2994.4	2971.0	2963.2	2948.9	2928.0	2903.3	2877.3	2853.8	2825.2	2799.1
25°	2866.8	2849.9	2831.7	2816.1	2805.6	2786.1	2754.9	2735.3	2709.3	2678.1	2658.5
27.5°	2718.4	2698.9	2672.9	2662.4	2653.3	2627.3	2601.2	2576.5	2555.7	2528.3	2511.4
30°	2546.6	2532.2	2515.3	2502.3	2489.3	2468.4	2445.0	2416.4	2394.2	2381.2	2357.8
32.5°	2372.1	2360.4	2338.3	2331.7	2317.4	2300.5	2283.6	2262.7	2239.3	2219.8	2201.6
35°	2185.9	2174.2	2158.6	2146.9	2141.7	2129.9	2111.7	2093.5	2081.8	2059.6	2050.5
37.5°	1999.8	1995.9	1980.2	1968.5	1964.6	1950.3	1941.2	1928.2	1911.2	1906.0	1895.6
40°	1808.4	1805.8	1796.7	1795.4	1787.5	1783.6	1770.6	1760.2	1752.4	1748.5	1742.0
42.5°	1632.6	1630.0	1622.2	1623.5	1615.7	1613.1	1611.8	1602.7	1596.2	1588.3	1589.7
45°	1459.5	1456.9	1451.6	1449.0	1452.9	1451.6	1449.0	1445.1	1445.1	1446.4	1442.5
47.5°	1292.8	1295.4	1290.2	1292.8	1292.8	1288.9	1288.9	1294.1	1295.4	1298.0	1300.6
50°	1135.3	1143.1	1140.5	1144.4	1145.7	1147.0	1143.1	1149.6	1148.3	1160.0	1157.4
52.5°	992.1	993.4	998.6	999.9	1001.2	1002.5	1009.0	1014.2	1015.5	1020.7	1029.8
55°	854.1	855.4	865.8	865.8	872.3	873.6	882.7	885.3	889.2	903.5	906.1
57.5°	723.9	731.7	736.9	739.5	743.4	749.9	755.1	766.8	773.3	782.5	791.6
60°	606.7	615.8	622.3	624.9	630.1	637.9	644.5	657.5	669.2	679.6	686.1
62.5°	498.6	506.4	511.7	520.8	520.8	527.3	542.9	550.7	563.7	572.8	584.6
65°	402.3	407.5	416.6	416.6	421.8	432.2	445.3	457.0	470.0	483.0	494.7
67.5°	315.1	319.0	324.2	329.4	332.0	345.0	355.4	372.4	384.1	393.2	407.5
70°	238.3	240.9	247.4	252.6	256.5	265.6	277.3	289.0	300.7	311.2	325.5
72.5°	170.6	175.8	182.3	186.2	188.8	195.3	207.0	218.7	229.1	239.6	247.4
75°	117.2	121.1	123.7	127.6	131.5	136.7	144.5	152.3	164.0	174.5	183.6
77.5°	72.9	76.8	80.7	82.0	83.3	88.5	93.7	101.6	109.4	117.2	123.7
80°	43.0	44.3	45.6	46.9	49.5	53.4	56.0	61.2	66.4	71.6	78.1
82.5°	22.1	23.4	24.7	24.7	24.7	26.0	29.9	32.5	33.9	36.5	40.4
85°	9.1	9.1	9.1	10.4	10.4	11.7	11.7	13.0	13.0	14.3	15.6
87.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
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: P879492

CATALOG NUMBER: LD4C75D010 EU4759035 4LBLDWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3545.1	3545.1	3545.1	3545.1	3545.1	3545.1	3545.1	3545.1
2.5°	3532.1	3532.1	3532.1	3530.8	3532.1	3532.1	3532.1	3530.8
5°	3498.3	3495.7	3495.7	3494.4	3493.1	3493.1	3494.4	3491.8
7.5°	3442.3	3438.4	3435.8	3435.8	3434.5	3433.2	3433.2	3426.7
10°	3369.4	3361.6	3361.6	3359.0	3348.6	3347.2	3344.6	3344.6
12.5°	3278.2	3269.1	3263.9	3257.4	3250.9	3245.7	3244.4	3239.2
15°	3170.2	3158.5	3149.4	3146.8	3136.3	3128.5	3128.5	3125.9
17.5°	3053.0	3034.8	3028.3	3021.8	3007.4	3006.1	3003.5	2991.8
20°	2920.2	2903.3	2894.2	2887.7	2878.6	2865.5	2862.9	2864.2
22.5°	2780.9	2757.5	2749.7	2743.2	2734.0	2722.3	2722.3	2713.2
25°	2636.4	2615.6	2607.8	2599.9	2585.6	2580.4	2573.9	2575.2
27.5°	2489.3	2469.8	2463.2	2448.9	2439.8	2433.3	2426.8	2426.8
30°	2335.7	2325.2	2314.8	2313.5	2295.3	2287.5	2281.0	2275.8
32.5°	2187.2	2174.2	2169.0	2163.8	2154.7	2144.3	2143.0	2133.9
35°	2041.4	2028.4	2021.9	2016.7	2006.3	2002.4	1998.5	2001.1
37.5°	1887.8	1885.2	1881.3	1874.8	1868.3	1867.0	1861.8	1868.3
40°	1736.8	1735.5	1730.3	1731.6	1731.6	1729.0	1731.6	1731.6
42.5°	1591.0	1591.0	1585.7	1588.3	1589.7	1592.3	1596.2	1598.8
45°	1449.0	1447.7	1449.0	1451.6	1449.0	1455.6	1460.8	1464.7
47.5°	1303.2	1304.5	1309.7	1311.0	1313.6	1322.8	1322.8	1322.8
50°	1163.9	1170.4	1167.8	1175.6	1174.3	1179.5	1174.3	1174.3
52.5°	1031.1	1037.6	1038.9	1040.2	1048.0	1049.4	1049.4	1048.0
55°	912.6	921.8	917.9	924.4	928.3	930.9	934.8	932.2
57.5°	803.3	807.2	811.1	812.4	817.6	820.2	822.8	820.2
60°	695.2	703.0	709.5	710.9	713.5	716.1	717.4	721.3
62.5°	593.7	606.7	609.3	610.6	617.1	621.0	623.6	626.2
65°	503.8	513.0	519.5	523.4	528.6	528.6	532.5	532.5
67.5°	416.6	425.7	429.6	432.2	440.1	441.4	447.9	447.9
70°	337.2	343.7	346.3	350.2	358.0	363.2	365.8	368.4
72.5°	260.4	268.2	272.1	277.3	282.5	286.4	287.7	291.6
75°	190.1	201.8	203.1	208.3	212.2	217.4	220.0	218.7
77.5°	132.8	136.7	141.9	144.5	148.4	152.3	156.2	156.2
80°	82.0	87.2	88.5	89.8	95.0	97.6	100.2	100.2
82.5°	43.0	45.6	48.2	49.5	52.1	52.1	53.4	54.7
85°	16.9	18.2	18.2	18.2	19.5	20.8	20.8	20.8
87.5°	2.6	3.9	2.6	2.6	3.9	3.9	3.9	3.9
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)