

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: P879490

Luminaire Tested: **LD4C75D010 EU4759030 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: P879490  
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 EU4759030 4LBLDWWH  
Description: 4 INCH 7500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS  
AND 4LBLDWW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

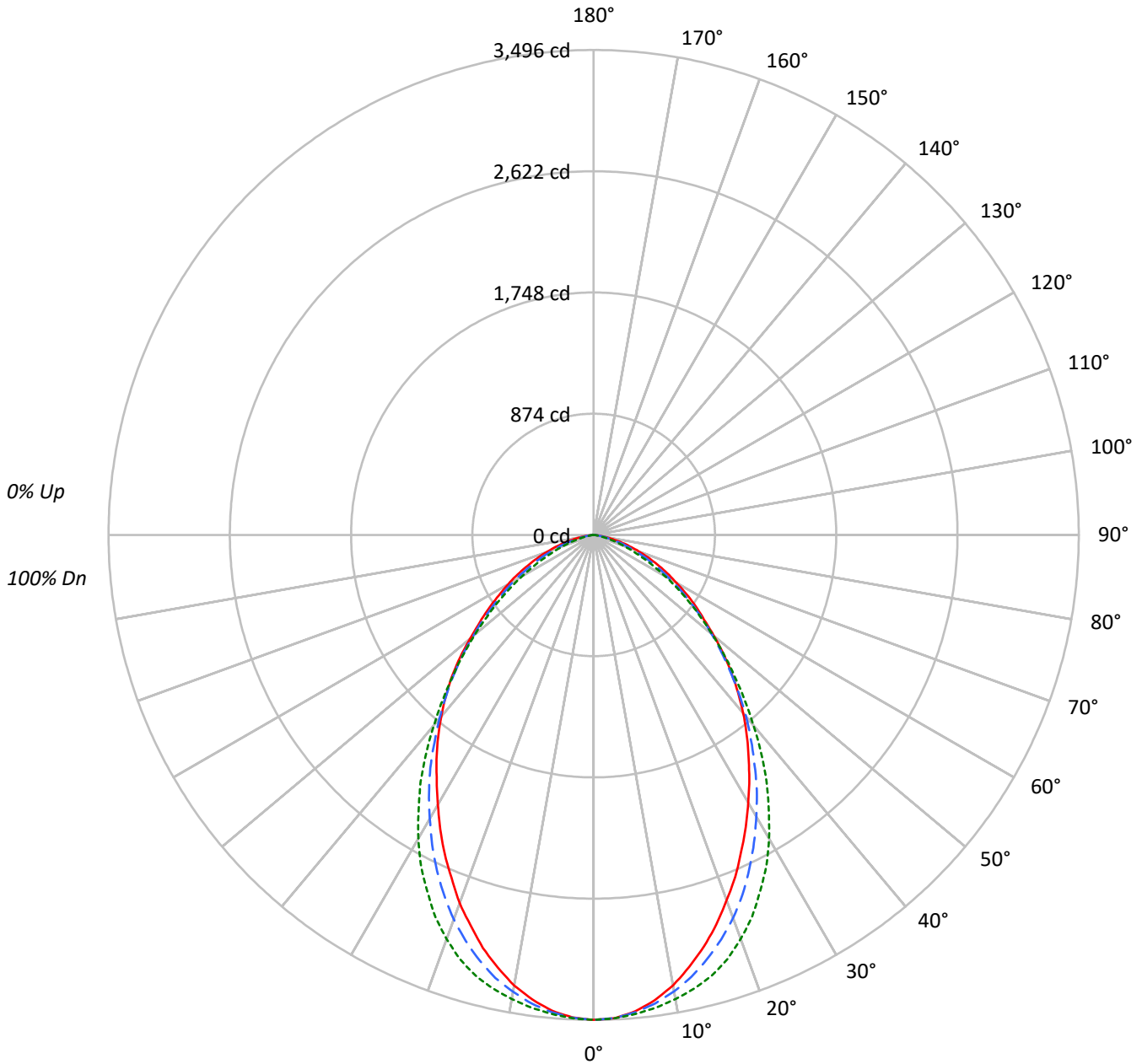
Lumens per Lamp: N/A  
Luminaire Lumens: 6253.0 lumens  
Efficiency: N/A  
Efficacy: 76.7 lumens/watt  
Spacing Criteria (0/90/45): 1 / 1.1 / 1.12  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 81.5  
Input Voltage (V): NR  
Input Current (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

TEST NUMBER: P879490

CATALOG NUMBER: LD4C75D010 EU4759030 4LBLDWWH

### 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			
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77			
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67			
4	88	77	70	64	86	76	69	63	74	68	63	71	66	62	69	65	61	59			
5	81	70	62	56	80	69	62	56	67	61	56	65	59	55	63	58	54	52			
6	76	64	56	50	74	63	56	50	61	55	50	60	54	49	58	53	49	47			
7	71	59	51	45	69	58	50	45	56	50	45	55	49	44	54	48	44	42			
8	66	54	46	41	65	53	46	41	52	45	41	51	45	40	50	44	40	38			
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	35			
10	59	46	39	34	57	46	39	34	45	39	34	44	38	34	43	38	34	32			

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

	0°	90°	180°
0°	429483	429483	429483
5°	425118	427486	424637
10°	411284	423784	411446
15°	390757	418344	392055
20°	366249	405183	369269
25°	341108	384431	344239
30°	315991	358605	318360
35°	291524	325989	295948
40°	268899	287230	273838
45°	243585	248936	250934
50°	215934	213239	221324
55°	192491	179576	196882
60°	168457	145729	174771
65°	147412	112703	152645
70°	124068	82544	130497
75°	96880	53638	102386
80°	63603	28158	69970
85°	21708	12686	28897



TEST NUMBER: P879490

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	326.3	5.2
10°-20°	891.7	14.3
20°-30°	1226.4	19.6
30°-40°	1279.4	20.5
40°-50°	1094.6	17.5
50°-60°	782.9	12.5
60°-70°	454.3	7.3
70°-80°	175.1	2.8
80°-90°	22.3	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°	2444.4	39.1
0°-40°	3723.8	59.6
0°-60°	5601.3	89.6
0°-90°	6253.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6253.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	3496	3496	3496	3496	3496	
5°	3447	3454	3466	3454	3443	324
15°	3072	3165	3289	3176	3082	861
25°	2516	2655	2836	2672	2540	1158
35°	1944	2021	2174	2053	1973	1217
45°	1402	1390	1433	1425	1444	1081
55°	899	854	838	877	919	804
65°	507	448	388	464	525	506
75°	204	153	113	162	216	220
85°	15	12	9	13	20	30
90°	0	0	0	0	0	



TEST NUMBER: P879490

CATALOG NUMBER: LD4C75D010 EU4759030 4LBLDWWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9
2.5°	3487.0	3484.4	3485.7	3485.7	3485.7	3484.4	3487.0	3487.0	3485.7	3485.7	3485.7
5°	3447.2	3444.6	3445.9	3447.2	3447.2	3447.2	3448.4	3449.7	3451.0	3452.3	3453.6
7.5°	3383.0	3379.1	3383.0	3388.1	3388.1	3389.4	3390.7	3391.9	3395.8	3402.2	3406.1
10°	3296.9	3296.9	3298.2	3302.1	3308.5	3307.2	3311.1	3317.5	3325.2	3334.2	3340.6
12.5°	3187.8	3190.4	3194.2	3198.1	3204.5	3208.4	3214.8	3222.5	3235.3	3248.2	3262.3
15°	3072.3	3073.6	3074.8	3083.8	3090.2	3099.2	3104.4	3119.8	3131.3	3149.3	3164.7
17.5°	2942.6	2941.3	2945.2	2952.9	2968.3	2972.1	2978.5	2995.2	3011.9	3036.3	3056.9
20°	2801.4	2809.1	2814.2	2824.5	2833.5	2843.7	2848.9	2869.4	2888.7	2911.8	2938.7
22.5°	2667.9	2661.4	2670.4	2682.0	2689.7	2697.4	2706.4	2728.2	2748.7	2777.0	2803.9
25°	2516.4	2520.2	2526.6	2535.6	2545.9	2556.2	2566.4	2589.5	2601.1	2630.6	2655.0
27.5°	2372.6	2379.0	2381.6	2393.1	2402.1	2409.8	2414.9	2441.9	2452.2	2477.8	2502.2
30°	2227.5	2233.9	2233.9	2246.7	2253.2	2260.9	2273.7	2291.7	2307.1	2325.1	2343.0
32.5°	2087.6	2087.6	2092.7	2104.2	2110.7	2119.6	2123.5	2136.3	2151.7	2169.7	2189.0
35°	1943.8	1947.6	1952.7	1952.7	1964.3	1969.4	1974.6	1987.4	1997.7	2005.4	2020.8
37.5°	1811.5	1811.5	1807.7	1814.1	1821.8	1820.5	1828.2	1834.6	1841.1	1850.0	1862.9
40°	1676.7	1676.7	1671.6	1675.4	1680.6	1679.3	1676.7	1683.1	1688.3	1694.7	1707.5
42.5°	1539.3	1536.8	1535.5	1535.5	1538.1	1535.5	1538.1	1539.3	1539.3	1539.3	1547.0
45°	1402.0	1408.4	1400.7	1398.1	1394.3	1390.4	1389.1	1390.4	1395.6	1389.1	1390.4
47.5°	1267.2	1269.7	1264.6	1260.7	1256.9	1254.3	1256.9	1249.2	1251.8	1253.0	1247.9
50°	1129.8	1124.7	1124.7	1120.8	1122.1	1120.8	1118.2	1115.7	1115.7	1109.3	1105.4
52.5°	1002.7	1005.3	1007.8	998.8	1000.1	993.7	995.0	988.6	988.6	980.9	983.4
55°	898.7	894.8	894.8	891.0	889.7	883.3	882.0	878.2	869.2	864.0	853.8
57.5°	790.9	789.6	784.4	785.7	778.0	776.7	774.2	767.7	761.3	754.9	743.4
60°	685.6	686.9	686.9	684.3	680.4	674.0	675.3	666.3	657.3	645.8	635.5
62.5°	598.3	594.4	593.1	590.6	582.9	582.9	576.5	570.0	561.0	549.5	540.5
65°	507.1	508.4	504.6	500.7	493.0	491.7	486.6	481.4	472.5	460.9	448.1
67.5°	425.0	422.4	421.1	417.3	409.6	408.3	404.4	392.9	385.2	373.6	363.3
70°	345.4	342.8	344.1	337.7	330.0	326.1	324.8	315.8	304.3	295.3	285.0
72.5°	270.9	270.9	269.6	263.2	259.3	256.8	251.6	241.4	234.9	224.7	217.0
75°	204.1	202.8	200.3	196.4	191.3	188.7	186.2	179.7	170.8	159.2	152.8
77.5°	141.2	142.5	139.9	138.7	132.2	128.4	127.1	123.3	115.5	107.8	101.4
80°	89.9	88.6	87.3	84.7	83.5	82.2	78.3	75.7	68.0	64.2	60.3
82.5°	48.8	46.2	46.2	44.9	42.4	41.1	39.8	37.2	35.9	33.4	30.8
85°	15.4	16.7	15.4	15.4	15.4	14.1	14.1	14.1	12.8	12.8	11.6
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



TEST NUMBER: P879490

CATALOG NUMBER: LD4C75D010 EU4759030 4LBLDWWH

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9
2.5°	3485.7	3487.0	3487.0	3488.2	3488.2	3488.2	3488.2	3488.2	3488.2	3488.2	3488.2
5°	3457.4	3457.4	3460.0	3462.6	3462.6	3462.6	3463.8	3466.4	3466.4	3466.4	3465.1
7.5°	3411.2	3416.3	3421.5	3426.6	3427.9	3429.2	3431.7	3436.9	3436.9	3436.9	3436.9
10°	3350.9	3362.4	3368.8	3376.5	3380.4	3383.0	3390.7	3391.9	3395.8	3397.1	3395.8
12.5°	3273.8	3289.2	3303.4	3316.2	3321.3	3326.5	3334.2	3341.9	3345.7	3349.6	3348.3
15°	3187.8	3204.5	3226.3	3240.5	3250.7	3258.4	3270.0	3280.3	3286.7	3289.2	3289.2
17.5°	3083.8	3104.4	3127.5	3150.6	3157.0	3169.8	3182.7	3196.8	3204.5	3205.8	3204.5
20°	2968.3	2991.4	3010.6	3033.8	3047.9	3054.3	3072.3	3090.2	3097.9	3099.2	3097.9
22.5°	2830.9	2852.7	2878.4	2902.8	2914.4	2925.9	2945.2	2963.1	2973.4	2981.1	2973.4
25°	2678.1	2708.9	2733.3	2753.9	2770.6	2782.1	2806.5	2820.6	2837.3	2836.0	2837.3
27.5°	2527.9	2553.6	2580.6	2604.9	2615.2	2628.1	2647.3	2670.4	2684.5	2693.5	2692.2
30°	2373.9	2394.4	2417.5	2439.3	2456.0	2466.3	2494.5	2504.8	2522.8	2527.9	2524.1
32.5°	2210.8	2224.9	2248.0	2277.6	2284.0	2294.3	2312.2	2337.9	2344.3	2346.9	2348.2
35°	2037.5	2064.4	2083.7	2101.7	2106.8	2115.8	2136.3	2155.6	2162.0	2173.6	2168.4
37.5°	1877.0	1892.4	1901.4	1919.4	1934.8	1942.5	1952.7	1965.6	1978.4	1983.6	1982.3
40°	1716.5	1724.2	1731.9	1751.2	1752.5	1752.5	1767.9	1785.8	1785.8	1791.0	1791.0
42.5°	1552.2	1553.5	1563.7	1574.0	1576.6	1579.1	1594.5	1597.1	1604.8	1608.7	1613.8
45°	1393.0	1400.7	1407.1	1408.4	1414.8	1416.1	1419.9	1423.8	1435.4	1432.8	1435.4
47.5°	1247.9	1251.8	1255.6	1255.6	1259.5	1258.2	1264.6	1260.7	1268.5	1271.0	1274.9
50°	1105.4	1111.8	1108.0	1110.5	1109.3	1113.1	1110.5	1110.5	1110.5	1115.7	1119.5
52.5°	974.4	975.7	971.9	973.2	973.2	970.6	973.2	971.9	970.6	970.6	971.9
55°	853.8	848.6	846.1	840.9	834.5	842.2	838.4	835.8	840.9	838.4	840.9
57.5°	736.9	730.5	725.4	722.8	713.8	719.0	713.8	711.3	711.3	711.3	717.7
60°	626.5	620.1	613.7	606.0	604.7	602.1	599.6	593.1	594.4	593.1	595.7
62.5°	530.2	517.4	508.4	502.0	500.7	496.9	493.0	486.6	487.9	487.9	489.1
65°	441.6	427.5	414.7	405.7	405.7	399.3	392.9	392.9	385.2	387.7	389.0
67.5°	353.1	341.5	328.7	322.2	318.4	313.3	309.4	306.8	303.0	303.0	305.6
70°	273.5	261.9	255.5	245.2	243.9	240.1	234.9	231.1	229.8	229.8	228.5
72.5°	206.7	196.4	188.7	182.3	178.5	174.6	169.5	168.2	165.6	165.6	168.2
75°	143.8	137.4	131.0	124.5	122.0	120.7	116.8	114.3	114.3	113.0	114.3
77.5°	96.3	89.9	83.5	80.9	78.3	75.7	74.5	73.2	69.3	69.3	69.3
80°	55.2	52.6	50.1	46.2	46.2	44.9	42.4	41.1	39.8	39.8	39.8
82.5°	28.2	27.0	24.4	23.1	23.1	23.1	21.8	21.8	20.5	20.5	20.5
85°	11.6	10.3	9.0	9.0	9.0	9.0	9.0	9.0	10.3	9.0	10.3
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



TEST NUMBER: P879490

CATALOG NUMBER: LD4C75D010 EU4759030 4LBDWWH

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9
2.5°	3488.2	3487.0	3487.0	3487.0	3487.0	3487.0	3485.7	3485.7	3484.4	3484.4	3484.4
5°	3466.4	3465.1	3463.8	3462.6	3461.3	3460.0	3458.7	3457.4	3453.6	3452.3	3449.7
7.5°	3435.6	3433.0	3429.2	3427.9	3425.3	3421.5	3416.3	3413.8	3408.6	3402.2	3399.7
10°	3394.5	3389.4	3385.5	3379.1	3377.8	3372.7	3359.9	3353.4	3344.4	3336.7	3327.8
12.5°	3344.4	3339.3	3330.3	3321.3	3316.2	3304.6	3293.1	3282.8	3271.3	3254.6	3241.7
15°	3282.8	3275.1	3257.1	3254.6	3246.9	3228.9	3213.5	3194.2	3176.3	3158.3	3142.9
17.5°	3200.7	3184.0	3175.0	3163.4	3154.4	3131.3	3114.6	3092.8	3068.4	3047.9	3026.1
20°	3092.8	3074.8	3059.4	3053.0	3041.5	3020.9	3000.4	2973.4	2949.0	2923.3	2904.1
22.5°	2964.4	2952.9	2929.8	2922.1	2907.9	2887.4	2863.0	2837.3	2814.2	2786.0	2760.3
25°	2827.1	2810.4	2792.4	2777.0	2766.7	2747.5	2716.6	2697.4	2671.7	2640.9	2621.6
27.5°	2680.7	2661.4	2635.8	2625.5	2616.5	2590.8	2565.1	2540.8	2520.2	2493.2	2476.6
30°	2511.2	2497.1	2480.4	2467.6	2454.7	2434.2	2411.1	2382.8	2361.0	2348.2	2325.1
32.5°	2339.2	2327.6	2305.8	2299.4	2285.3	2268.6	2251.9	2231.3	2208.2	2189.0	2171.0
35°	2155.6	2144.0	2128.6	2117.1	2111.9	2100.4	2082.4	2064.4	2052.9	2031.1	2022.1
37.5°	1972.0	1968.2	1952.7	1941.2	1937.3	1923.2	1914.2	1901.4	1884.7	1879.6	1869.3
40°	1783.3	1780.7	1771.7	1770.4	1762.7	1758.9	1746.0	1735.8	1728.1	1724.2	1717.8
42.5°	1610.0	1607.4	1599.7	1601.0	1593.3	1590.7	1589.4	1580.4	1574.0	1566.3	1567.6
45°	1439.2	1436.6	1431.5	1428.9	1432.8	1431.5	1428.9	1425.1	1425.1	1426.4	1422.5
47.5°	1274.9	1277.4	1272.3	1274.9	1274.9	1271.0	1271.0	1276.2	1277.4	1280.0	1282.6
50°	1119.5	1127.2	1124.7	1128.5	1129.8	1131.1	1127.2	1133.6	1132.4	1143.9	1141.3
52.5°	978.3	979.6	984.7	986.0	987.3	988.6	995.0	1000.1	1001.4	1006.5	1015.5
55°	842.2	843.5	853.8	853.8	860.2	861.5	870.5	873.0	876.9	891.0	893.6
57.5°	713.8	721.5	726.7	729.2	733.1	739.5	744.6	756.2	762.6	771.6	780.6
60°	598.3	607.3	613.7	616.3	621.4	629.1	635.5	648.3	659.9	670.2	676.6
62.5°	491.7	499.4	504.6	513.5	513.5	520.0	535.4	543.1	555.9	564.9	576.5
65°	396.7	401.8	410.8	410.8	416.0	426.2	439.1	450.6	463.5	476.3	487.9
67.5°	310.7	314.5	319.7	324.8	327.4	340.2	350.5	367.2	378.7	387.7	401.8
70°	234.9	237.5	243.9	249.1	252.9	261.9	273.5	285.0	296.6	306.8	321.0
72.5°	168.2	173.3	179.7	183.6	186.2	192.6	204.1	215.7	226.0	236.2	243.9
75°	115.5	119.4	122.0	125.8	129.7	134.8	142.5	150.2	161.8	172.0	181.0
77.5°	71.9	75.7	79.6	80.9	82.2	87.3	92.4	100.1	107.8	115.5	122.0
80°	42.4	43.7	44.9	46.2	48.8	52.6	55.2	60.3	65.5	70.6	77.0
82.5°	21.8	23.1	24.4	24.4	24.4	25.7	29.5	32.1	33.4	35.9	39.8
85°	9.0	9.0	9.0	10.3	10.3	11.6	11.6	12.8	12.8	14.1	15.4
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: P879490

CATALOG NUMBER: LD4C75D010 EU4759030 4LBDWWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9
2.5°	3483.1	3483.1	3483.1	3481.8	3483.1	3483.1	3483.1	3481.8
5°	3449.7	3447.2	3447.2	3445.9	3444.6	3444.6	3445.9	3443.3
7.5°	3394.5	3390.7	3388.1	3388.1	3386.8	3385.5	3385.5	3379.1
10°	3322.6	3314.9	3314.9	3312.4	3302.1	3300.8	3298.2	3298.2
12.5°	3232.8	3223.8	3218.6	3212.2	3205.8	3200.7	3199.4	3194.2
15°	3126.2	3114.6	3105.6	3103.1	3092.8	3085.1	3085.1	3082.5
17.5°	3010.6	2992.7	2986.3	2979.8	2965.7	2964.4	2961.9	2950.3
20°	2879.7	2863.0	2854.0	2847.6	2838.6	2825.8	2823.2	2824.5
22.5°	2742.3	2719.2	2711.5	2705.1	2696.1	2684.5	2684.5	2675.6
25°	2599.8	2579.3	2571.6	2563.9	2549.7	2544.6	2538.2	2539.5
27.5°	2454.7	2435.5	2429.1	2414.9	2405.9	2399.5	2393.1	2393.1
30°	2303.2	2293.0	2282.7	2281.4	2263.4	2255.7	2249.3	2244.2
32.5°	2156.9	2144.0	2138.9	2133.8	2124.8	2114.5	2113.2	2104.2
35°	2013.1	2000.2	1993.8	1988.7	1978.4	1974.6	1970.7	1973.3
37.5°	1861.6	1859.0	1855.2	1848.8	1842.3	1841.1	1835.9	1842.3
40°	1712.7	1711.4	1706.2	1707.5	1707.5	1705.0	1707.5	1707.5
42.5°	1568.9	1568.9	1563.7	1566.3	1567.6	1570.2	1574.0	1576.6
45°	1428.9	1427.6	1428.9	1431.5	1428.9	1435.4	1440.5	1444.3
47.5°	1285.1	1286.4	1291.6	1292.8	1295.4	1304.4	1304.4	1304.4
50°	1147.8	1154.2	1151.6	1159.3	1158.0	1163.2	1158.0	1158.0
52.5°	1016.8	1023.2	1024.5	1025.8	1033.5	1034.8	1034.8	1033.5
55°	900.0	909.0	905.1	911.5	915.4	918.0	921.8	919.2
57.5°	792.1	796.0	799.8	801.1	806.3	808.8	811.4	808.8
60°	685.6	693.3	699.7	701.0	703.6	706.1	707.4	711.3
62.5°	585.4	598.3	600.8	602.1	608.5	612.4	615.0	617.5
65°	496.9	505.8	512.3	516.1	521.2	521.2	525.1	525.1
67.5°	410.8	419.8	423.7	426.2	433.9	435.2	441.6	441.6
70°	332.5	338.9	341.5	345.4	353.1	358.2	360.8	363.3
72.5°	256.8	264.5	268.3	273.5	278.6	282.4	283.7	287.6
75°	187.4	199.0	200.3	205.4	209.3	214.4	217.0	215.7
77.5°	131.0	134.8	139.9	142.5	146.4	150.2	154.1	154.1
80°	80.9	86.0	87.3	88.6	93.7	96.3	98.9	98.9
82.5°	42.4	44.9	47.5	48.8	51.4	51.4	52.6	53.9
85°	16.7	18.0	18.0	18.0	19.3	20.5	20.5	20.5
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)