

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: P844519

Luminaire Tested: **LD6C40DE010B50 EU6C40B50 6LBSWLI**

Issue Date: 5/7/2024

Test Information

Test Method: LM-79-08
Report Number: P844519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252180)
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD6C40DE010B50 EU6C40B50 6LBSWLI
Description:
Light Source: -
Ballast/Driver:

Summary

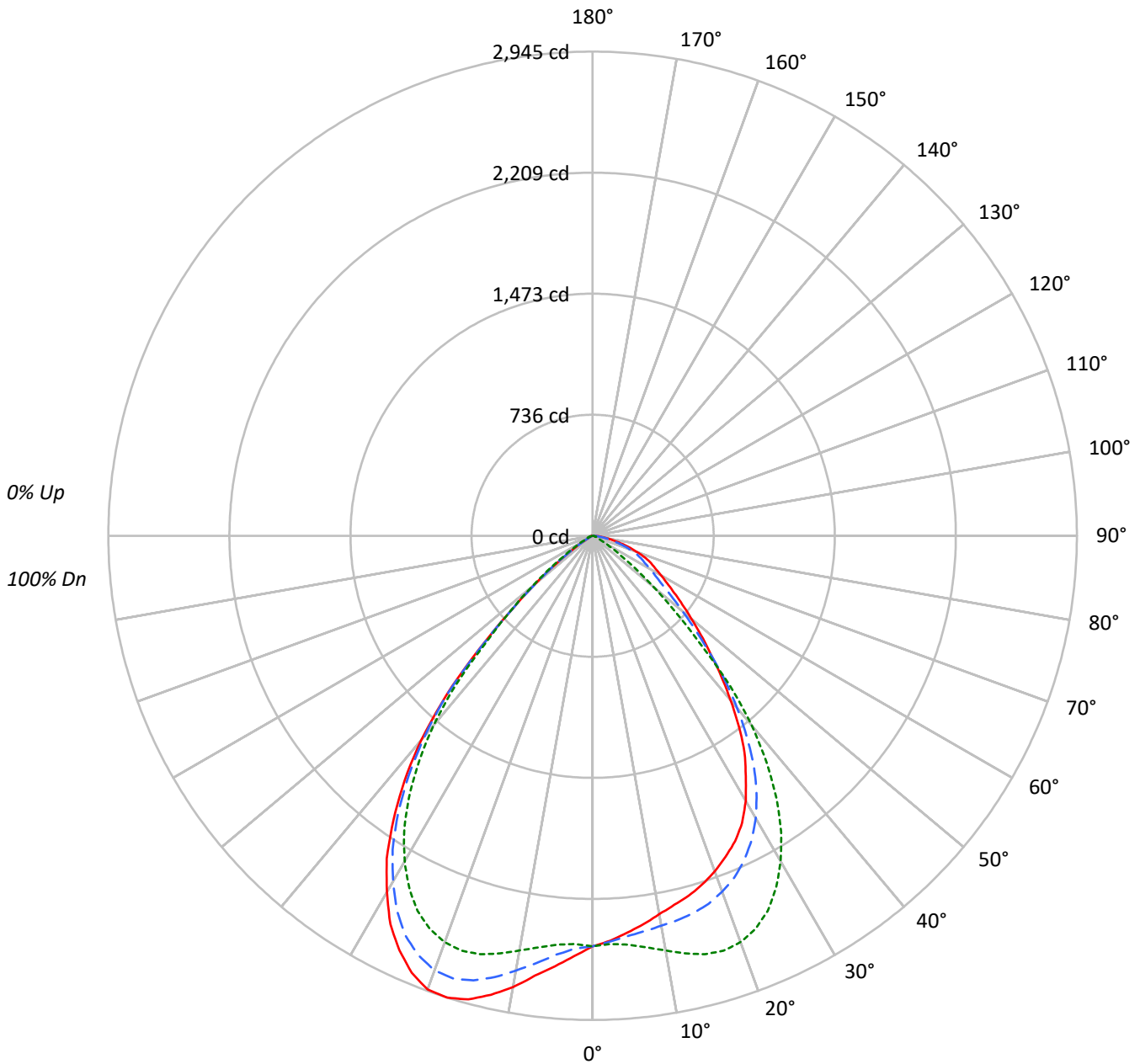
Lumens per Lamp: N/A
Luminaire Lumens: 4563.7 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 49.8
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				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			
1	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72			
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53			
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44			
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40			
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	136875	136875	136875
5°	133320	137398	144612
10°	130074	142571	155191
15°	128554	149553	165676
20°	126717	153448	171276
25°	124023	152313	168197
30°	117860	144750	158341
35°	107826	130507	141368
40°	93260	107781	115974
45°	78652	70697	75868
50°	66778	40911	38481
55°	57938	19622	14833
60°	52331	9166	3662
65°	50771	5253	1232
70°	45537	4215	1154
75°	37405	3050	508
80°	27876	1515	0
85°	24027	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.2	5.3
10°-20°	735.0	16.1
20°-30°	1123.0	24.6
30°-40°	1174.5	25.7
40°-50°	761.9	16.7
50°-60°	302.5	6.6
60°-70°	143.5	3.1
70°-80°	68.3	1.5
80°-90°	13.9	0.3
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°	2099.1	46.0
0°-40°	3273.6	71.7
0°-60°	4338.0	95.1
0°-90°	4563.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4563.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2497	2497	2497	2497	2497	
5°	2423	2444	2497	2559	2628	229
15°	2265	2375	2635	2800	2919	638
25°	2050	2179	2518	2688	2781	939
35°	1611	1709	1950	2065	2112	996
45°	1014	1005	912	967	979	789
55°	606	516	205	160	155	549
65°	391	325	40	10	10	382
75°	177	143	14	5	2	190
85°	38	24	0	0	0	45
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°	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8
2.5°	2465.7	2470.4	2444.2	2437.0	2456.1	2463.2	2465.7	2458.5	2460.9	2470.4	2470.4
5°	2422.7	2427.5	2403.6	2396.4	2415.5	2420.4	2427.5	2425.2	2432.2	2446.5	2444.2
7.5°	2382.1	2389.3	2363.1	2353.6	2377.3	2389.3	2394.1	2394.1	2403.6	2422.7	2425.2
10°	2336.7	2346.4	2322.5	2317.6	2343.9	2355.9	2358.3	2363.1	2377.3	2403.6	2408.3
12.5°	2298.7	2308.2	2291.5	2284.3	2312.8	2324.8	2329.5	2339.2	2355.9	2389.3	2394.1
15°	2265.1	2272.3	2253.2	2248.4	2277.1	2291.5	2293.8	2308.2	2329.5	2367.8	2374.9
17.5°	2222.2	2227.0	2212.7	2207.9	2236.6	2250.8	2253.2	2269.9	2296.2	2334.4	2346.4
20°	2172.1	2176.9	2162.5	2157.8	2186.3	2203.1	2205.5	2219.9	2250.8	2291.5	2303.4
22.5°	2112.4	2121.9	2105.3	2100.5	2129.1	2143.4	2150.6	2162.5	2193.5	2234.1	2250.8
25°	2050.4	2050.4	2038.5	2036.1	2062.3	2079.0	2076.6	2093.3	2124.3	2165.0	2179.3
27.5°	1969.2	1966.8	1954.8	1952.5	1981.2	1995.4	1990.7	2007.4	2036.1	2076.6	2090.9
30°	1861.9	1866.5	1849.9	1845.0	1868.9	1892.8	1890.4	1907.1	1935.7	1974.0	1983.6
32.5°	1732.9	1737.7	1735.4	1728.2	1749.5	1761.5	1768.7	1780.6	1804.5	1845.0	1854.7
35°	1611.2	1604.0	1594.5	1594.5	1616.0	1635.0	1627.8	1642.2	1666.1	1706.6	1709.0
37.5°	1460.8	1458.4	1453.6	1448.9	1472.8	1477.5	1479.9	1489.4	1510.9	1544.4	1539.6
40°	1303.2	1305.5	1303.2	1293.7	1308.0	1327.1	1324.7	1329.6	1348.6	1372.4	1365.3
42.5°	1155.3	1155.3	1155.3	1145.7	1162.4	1172.0	1176.7	1174.3	1179.1	1200.6	1191.0
45°	1014.5	1016.8	1014.5	1012.0	1014.5	1019.2	1014.5	1012.0	1012.0	1019.2	1004.9
47.5°	892.7	892.7	885.6	878.4	885.6	887.9	880.8	873.6	871.2	868.8	845.0
50°	783.0	780.5	778.2	766.3	773.3	775.8	766.3	761.4	751.9	739.9	711.4
52.5°	687.5	685.0	682.6	670.6	675.5	677.8	668.3	658.8	646.8	637.3	601.5
55°	606.2	603.9	603.9	596.7	592.0	596.7	587.2	580.0	563.3	551.3	515.6
57.5°	537.1	537.1	532.3	525.1	527.5	527.5	518.0	508.4	494.0	479.7	451.2
60°	477.3	477.3	477.3	470.2	470.2	470.2	465.5	455.9	444.0	429.6	401.1
62.5°	429.6	429.6	427.2	420.1	422.4	422.4	417.7	408.1	396.3	386.7	358.0
65°	391.4	391.4	391.4	384.3	384.3	386.7	381.9	372.4	362.8	350.8	324.6
67.5°	343.7	341.4	341.4	336.5	339.0	341.4	336.5	329.5	317.5	310.3	286.4
70°	284.1	286.4	288.7	281.6	284.1	284.1	281.6	274.6	267.4	260.2	238.7
72.5°	231.5	231.5	229.1	226.8	226.8	229.1	224.3	217.2	212.5	207.7	190.9
75°	176.6	174.2	176.6	171.9	171.9	171.9	167.0	164.7	162.2	155.2	143.2
77.5°	128.9	126.5	126.5	121.7	124.2	124.2	121.7	117.0	112.1	109.8	100.2
80°	88.3	88.3	88.3	86.0	86.0	83.6	83.6	81.2	76.4	74.0	69.3
82.5°	59.7	59.7	59.7	57.3	57.3	57.3	54.9	52.5	50.1	47.7	42.9
85°	38.2	38.2	38.2	35.7	35.7	35.7	33.4	33.4	31.0	28.7	23.9
87.5°	21.5	21.5	21.5	19.1	19.1	19.1	19.1	19.1	16.7	14.4	12.0
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°	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8
2.5°	2487.1	2453.7	2475.2	2475.2	2468.1	2487.1	2499.1	2508.6	2506.2	2484.8	2482.4
5°	2468.1	2439.3	2463.2	2465.7	2458.5	2484.8	2501.4	2513.4	2515.8	2496.8	2499.1
7.5°	2453.7	2429.9	2460.9	2470.4	2468.1	2492.0	2511.0	2530.1	2539.7	2525.3	2527.7
10°	2446.5	2427.5	2460.9	2475.2	2477.6	2503.8	2532.5	2558.8	2570.7	2561.2	2568.3
12.5°	2437.0	2425.2	2463.2	2484.8	2494.3	2520.6	2556.4	2587.4	2606.5	2601.8	2616.1
15°	2427.5	2418.0	2463.2	2494.3	2506.2	2530.1	2570.7	2616.1	2637.5	2635.1	2654.2
17.5°	2403.6	2401.3	2449.0	2482.4	2499.1	2527.7	2565.9	2620.8	2642.3	2647.0	2670.9
20°	2365.5	2365.5	2418.0	2453.7	2472.9	2499.1	2546.9	2599.3	2625.6	2630.3	2656.7
22.5°	2312.8	2317.6	2367.8	2403.6	2432.2	2451.3	2501.4	2556.4	2580.2	2587.4	2616.1
25°	2243.7	2248.4	2296.2	2332.0	2363.1	2384.4	2432.2	2482.4	2511.0	2518.1	2539.7
27.5°	2153.0	2162.5	2207.9	2243.7	2269.9	2284.3	2334.4	2386.9	2408.3	2415.5	2437.0
30°	2048.0	2050.4	2095.7	2126.7	2153.0	2165.0	2207.9	2262.8	2279.5	2286.7	2317.6
32.5°	1919.1	1916.7	1959.7	1988.4	2009.7	2024.1	2069.4	2105.3	2121.9	2133.9	2150.6
35°	1763.9	1761.5	1792.6	1826.0	1842.7	1847.5	1892.8	1931.0	1940.5	1950.1	1971.6
37.5°	1589.7	1589.7	1616.0	1632.7	1651.7	1658.9	1680.4	1723.4	1740.0	1737.7	1754.3
40°	1405.9	1396.4	1415.4	1432.1	1436.9	1439.2	1460.8	1494.1	1506.1	1506.1	1518.0
42.5°	1212.6	1198.2	1200.6	1210.1	1214.9	1198.2	1212.6	1234.0	1226.9	1236.4	1238.8
45°	1007.3	985.7	976.3	954.7	959.6	942.8	933.3	938.0	935.7	911.9	916.5
47.5°	840.2	802.0	785.3	754.3	747.1	728.0	716.1	694.5	675.5	675.5	663.6
50°	699.4	661.2	627.7	592.0	580.0	563.3	537.1	508.4	494.0	479.7	467.9
52.5°	587.2	546.6	506.0	467.9	451.2	429.6	393.9	365.2	339.0	324.6	310.3
55°	496.5	451.2	408.1	367.5	346.2	324.6	288.7	255.4	224.3	205.3	193.3
57.5°	427.2	384.3	339.0	295.9	276.9	253.0	214.9	179.0	150.4	128.9	117.0
60°	377.2	334.2	293.6	248.2	229.1	205.3	164.7	131.3	102.6	83.6	69.3
62.5°	334.2	295.9	253.0	212.5	193.3	169.4	131.3	97.8	71.6	52.5	40.5
65°	303.1	264.9	229.1	188.6	171.9	148.1	112.1	81.2	57.3	40.5	28.7
67.5°	267.4	233.8	198.1	164.7	148.1	128.9	95.5	69.3	47.7	33.4	23.9
70°	224.3	198.1	167.0	136.1	124.2	107.3	78.8	57.3	38.2	26.3	19.1
72.5°	179.0	157.6	133.7	109.8	100.2	83.6	64.4	45.4	28.7	19.1	14.4
75°	136.1	119.3	100.2	83.6	74.0	64.4	47.7	33.4	21.5	14.4	9.5
77.5°	93.1	86.0	71.6	57.3	52.5	45.4	31.0	21.5	14.4	9.5	4.8
80°	64.4	57.3	47.7	38.2	33.4	28.7	19.1	14.4	7.2	4.8	2.4
82.5°	40.5	33.4	28.7	23.9	21.5	16.7	12.0	7.2	4.8	2.4	2.4
85°	21.5	19.1	16.7	12.0	12.0	9.5	7.2	4.8	2.4	0.0	0.0
87.5°	12.0	9.5	7.2	4.8	4.8	2.4	2.4	2.4	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°	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8
2.5°	2511.0	2511.0	2508.6	2537.3	2503.8	2537.3	2520.6	2537.3	2513.4	2511.0	2513.4
5°	2530.1	2537.3	2539.7	2565.9	2534.9	2575.4	2561.2	2575.4	2558.8	2563.5	2570.7
7.5°	2568.3	2580.2	2577.9	2611.3	2580.2	2625.6	2616.1	2637.5	2620.8	2625.6	2635.1
10°	2611.3	2625.6	2627.9	2661.4	2632.7	2687.7	2675.7	2699.5	2685.3	2692.4	2704.4
12.5°	2661.4	2678.1	2680.6	2718.6	2687.7	2745.0	2737.8	2761.6	2749.7	2756.8	2771.2
15°	2699.5	2723.4	2728.3	2766.3	2733.0	2792.7	2787.9	2818.9	2799.9	2811.8	2823.7
17.5°	2718.6	2740.2	2749.7	2785.5	2756.8	2816.6	2811.8	2838.1	2823.7	2835.6	2850.0
20°	2706.7	2733.0	2740.2	2776.0	2747.4	2807.1	2799.9	2826.1	2811.8	2821.2	2835.6
22.5°	2663.8	2690.0	2699.5	2733.0	2706.7	2761.6	2759.3	2783.2	2764.0	2776.0	2787.9
25°	2587.4	2616.1	2620.8	2651.8	2623.2	2680.6	2675.7	2701.9	2687.7	2694.7	2711.5
27.5°	2477.6	2511.0	2518.1	2544.5	2523.0	2570.7	2570.7	2592.2	2575.4	2575.4	2592.2
30°	2346.4	2379.7	2384.4	2406.0	2386.9	2429.9	2432.2	2453.7	2427.5	2441.8	2444.2
32.5°	2186.3	2207.9	2222.2	2241.3	2212.7	2267.6	2260.4	2277.1	2262.8	2262.8	2274.8
35°	1993.1	2019.3	2026.5	2050.4	2026.5	2069.4	2069.4	2079.0	2064.6	2064.6	2083.7
37.5°	1783.1	1802.1	1804.5	1828.3	1809.2	1845.0	1842.7	1849.9	1835.5	1845.0	1845.0
40°	1537.2	1551.4	1556.2	1568.2	1565.8	1592.1	1589.7	1594.5	1587.3	1589.7	1594.5
42.5°	1250.8	1269.8	1279.4	1288.9	1274.7	1310.4	1303.2	1310.4	1308.0	1310.4	1317.6
45°	921.3	935.7	942.8	945.2	940.4	961.9	978.6	964.4	966.7	961.9	971.5
47.5°	665.9	668.3	663.6	677.8	665.9	675.5	680.3	682.6	668.3	665.9	675.5
50°	455.9	467.9	451.2	458.3	455.9	465.5	460.7	463.1	448.8	455.9	451.2
52.5°	303.1	300.7	295.9	298.4	293.6	293.6	293.6	298.4	288.7	284.1	279.3
55°	183.8	179.0	169.4	167.0	167.0	169.4	164.7	159.9	159.9	157.6	157.6
57.5°	107.3	100.2	95.5	93.1	88.3	86.0	83.6	83.6	78.8	78.8	78.8
60°	59.7	52.5	47.7	42.9	42.9	40.5	38.2	35.7	35.7	35.7	33.4
62.5°	31.0	26.3	21.5	19.1	19.1	16.7	14.4	14.4	14.4	14.4	12.0
65°	21.5	16.7	14.4	12.0	12.0	9.5	9.5	9.5	9.5	9.5	9.5
67.5°	16.7	14.4	12.0	9.5	9.5	9.5	7.2	7.2	7.2	7.2	7.2
70°	14.4	9.5	9.5	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
72.5°	9.5	9.5	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
75°	7.2	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
77.5°	2.4	2.4	2.4	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0
80°	2.4	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	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



TEST NUMBER: P844519

CATALOG NUMBER: LD6C40DE010B50 EU6C40B50 6LBSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8	2496.8
2.5°	2534.9	2532.5	2534.9	2539.7	2530.1	2558.8	2544.5	2558.8
5°	2589.8	2592.2	2594.6	2601.8	2589.8	2625.6	2606.5	2627.9
7.5°	2661.4	2663.8	2666.2	2673.4	2666.2	2701.9	2680.6	2699.5
10°	2735.5	2740.2	2740.2	2752.1	2745.0	2778.3	2764.0	2787.9
12.5°	2804.6	2809.4	2814.2	2821.2	2816.6	2852.3	2840.4	2859.5
15°	2859.5	2869.0	2871.5	2881.0	2876.2	2914.4	2900.0	2919.2
17.5°	2885.8	2895.3	2895.3	2907.2	2902.5	2943.1	2923.9	2945.4
20°	2871.5	2878.6	2881.0	2892.9	2888.1	2928.8	2909.7	2935.9
22.5°	2826.1	2828.4	2830.9	2842.8	2840.4	2876.2	2859.5	2876.2
25°	2742.5	2749.7	2747.4	2756.8	2756.8	2785.5	2766.3	2780.7
27.5°	2623.2	2630.3	2630.3	2642.3	2632.7	2661.4	2642.3	2663.8
30°	2477.6	2484.8	2480.0	2489.6	2480.0	2508.6	2494.3	2501.4
32.5°	2303.4	2303.4	2305.7	2308.2	2303.4	2329.5	2315.3	2329.5
35°	2095.7	2100.5	2102.9	2105.3	2100.5	2119.6	2102.9	2112.4
37.5°	1861.9	1873.7	1871.3	1873.7	1866.5	1890.4	1876.0	1880.9
40°	1611.2	1611.2	1608.8	1613.5	1606.4	1625.5	1616.0	1620.6
42.5°	1319.9	1327.1	1317.6	1329.6	1310.4	1336.6	1327.1	1319.9
45°	990.6	981.1	978.6	981.1	973.9	976.3	983.4	978.6
47.5°	675.5	675.5	670.6	663.6	673.1	675.5	665.9	665.9
50°	453.5	453.5	448.8	446.3	451.2	448.8	444.0	451.2
52.5°	288.7	279.3	279.3	284.1	279.3	274.6	281.6	276.9
55°	157.6	152.8	152.8	157.6	152.8	152.8	150.4	155.2
57.5°	76.4	78.8	76.4	76.4	76.4	76.4	74.0	76.4
60°	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4
62.5°	14.4	14.4	12.0	12.0	12.0	12.0	12.0	12.0
65°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
67.5°	7.2	7.2	7.2	7.2	7.2	9.5	7.2	7.2
70°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
72.5°	7.2	7.2	9.5	9.5	9.5	9.5	9.5	9.5
75°	4.8	4.8	4.8	2.4	2.4	2.4	2.4	2.4
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)