

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: P844451

Luminaire Tested: **LD6C40DE010B2750 EU6C40B27 6LBSWLI**

Issue Date: 5/7/2024

Test Information

Test Method: LM-79-08
Report Number: P844451
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: LD6C40DE010B2750 EU6C40B27 6LBSWLI
Description:
Light Source: -
Ballast/Driver:

Summary

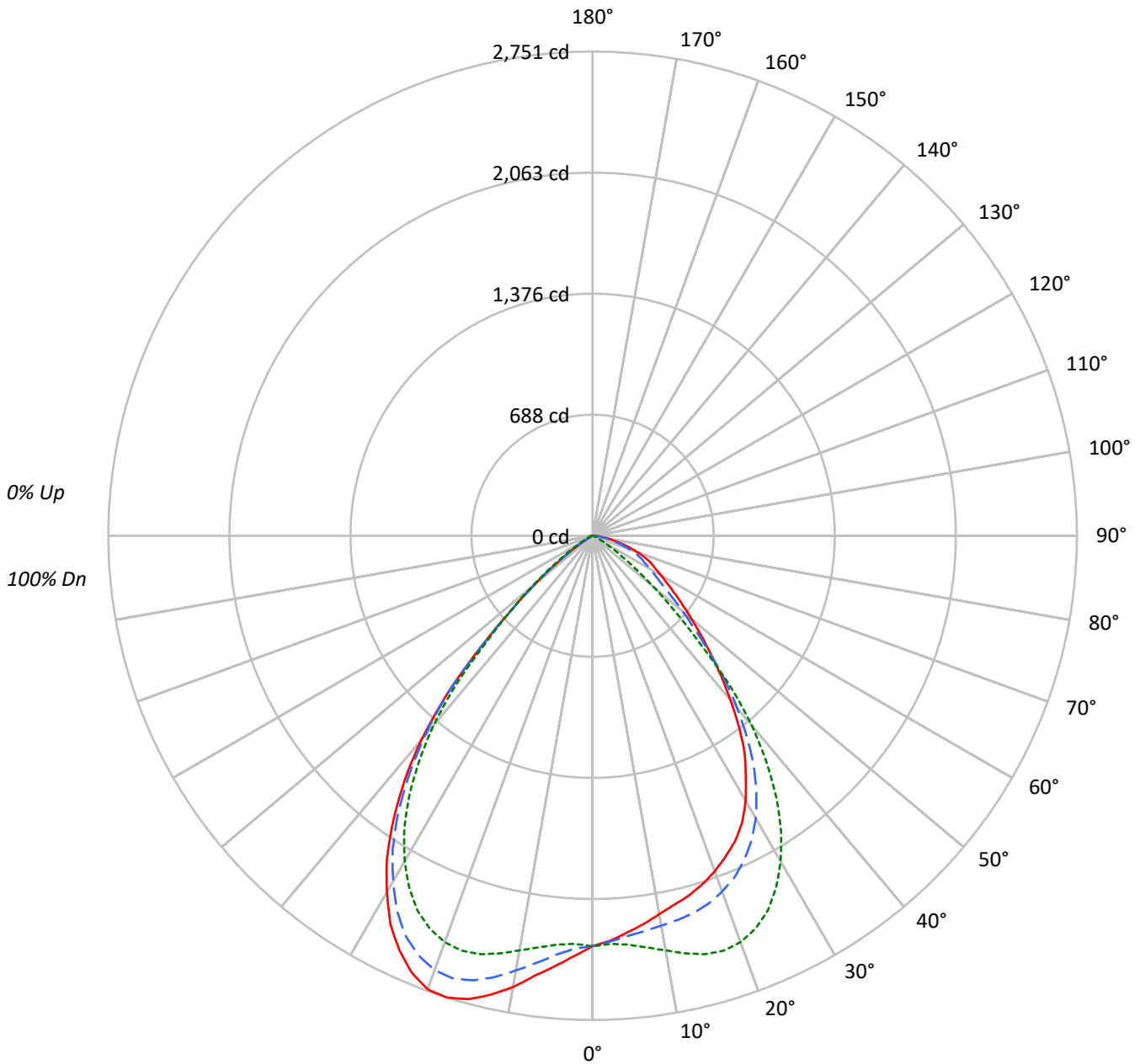
Lumens per Lamp: N/A
Luminaire Lumens: 4262.2 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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									
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	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°	127830	127830	127830
5°	124515	128318	135059
10°	121485	133147	144943
15°	120069	139677	154734
20°	118339	143320	159958
25°	115833	142260	157086
30°	110074	135192	147884
35°	100699	121880	132026
40°	87106	100667	108317
45°	73449	66022	70852
50°	62360	38216	35939
55°	54125	18322	13849
60°	48878	8563	3421
65°	47411	4916	1154
70°	42523	3927	1074
75°	34948	2838	466
80°	26045	1389	0
85°	22392	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.2	5.3
10°-20°	686.4	16.1
20°-30°	1048.8	24.6
30°-40°	1096.9	25.7
40°-50°	711.6	16.7
50°-60°	282.5	6.6
60°-70°	134.0	3.1
70°-80°	63.7	1.5
80°-90°	13.0	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°	1960.4	46.0
0°-40°	3057.4	71.7
0°-60°	4051.5	95.1
0°-90°	4262.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4262.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2332	2332	2332	2332	2332	
5°	2263	2283	2332	2390	2454	214
15°	2116	2218	2461	2615	2726	596
25°	1915	2035	2352	2510	2597	877
35°	1505	1596	1821	1928	1973	931
45°	947	938	852	903	914	737
55°	566	482	192	149	145	513
65°	366	303	38	9	9	357
75°	165	134	13	4	2	178
85°	36	22	0	0	0	42
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°	2331.8	2331.8	2331.8	2331.8	2331.8	2331.8	2331.8	2331.8	2331.8	2331.8	2331.8
2.5°	2302.8	2307.2	2282.8	2276.1	2293.9	2300.6	2302.8	2296.1	2298.3	2307.2	2307.2
5°	2262.7	2267.1	2244.8	2238.2	2255.9	2260.5	2267.1	2264.9	2271.7	2284.9	2282.8
7.5°	2224.8	2231.5	2207.0	2198.1	2220.4	2231.5	2235.9	2235.9	2244.8	2262.7	2264.9
10°	2182.4	2191.4	2169.1	2164.6	2189.1	2200.3	2202.5	2207.0	2220.4	2244.8	2249.3
12.5°	2146.8	2155.7	2140.1	2133.4	2160.1	2171.2	2175.7	2184.6	2200.3	2231.5	2235.9
15°	2115.6	2122.2	2104.4	2099.9	2126.7	2140.1	2142.2	2155.7	2175.7	2211.4	2218.1
17.5°	2075.4	2079.8	2066.5	2062.1	2088.8	2102.2	2104.4	2120.0	2144.6	2180.2	2191.4
20°	2028.5	2033.1	2019.7	2015.2	2042.0	2057.5	2059.8	2073.3	2102.2	2140.1	2151.2
22.5°	1972.8	1981.8	1966.2	1961.7	1988.6	2001.9	2008.6	2019.7	2048.6	2086.6	2102.2
25°	1915.0	1915.0	1903.8	1901.5	1926.1	1941.7	1939.4	1955.0	1984.0	2022.0	2035.3
27.5°	1839.1	1836.9	1825.7	1823.6	1850.2	1863.7	1859.1	1874.9	1901.5	1939.4	1952.8
30°	1738.9	1743.3	1727.6	1723.2	1745.5	1767.8	1765.6	1781.2	1807.9	1843.6	1852.6
32.5°	1618.4	1622.8	1620.7	1613.9	1634.0	1645.1	1651.9	1663.0	1685.3	1723.2	1732.1
35°	1504.7	1498.0	1489.1	1489.1	1509.1	1527.0	1520.3	1533.7	1556.0	1593.9	1596.2
37.5°	1364.3	1362.0	1357.6	1353.1	1375.5	1379.9	1382.1	1391.0	1411.1	1442.3	1437.9
40°	1217.2	1219.3	1217.2	1208.2	1221.6	1239.4	1237.2	1241.8	1259.5	1281.7	1275.2
42.5°	1078.9	1078.9	1078.9	1070.0	1085.7	1094.5	1099.0	1096.8	1101.2	1121.3	1112.3
45°	947.4	949.6	947.4	945.2	947.4	951.9	947.4	945.2	945.2	951.9	938.5
47.5°	833.7	833.7	827.1	820.4	827.1	829.3	822.6	816.0	813.6	811.5	789.2
50°	731.2	728.9	726.8	715.6	722.3	724.5	715.6	711.2	702.3	691.1	664.3
52.5°	642.1	639.8	637.5	626.4	630.9	633.1	624.2	615.2	604.1	595.2	561.8
55°	566.3	563.9	563.9	557.4	552.8	557.4	548.4	541.7	526.1	515.0	481.5
57.5°	501.5	501.5	497.1	490.4	492.6	492.6	483.8	474.8	461.4	448.1	421.4
60°	445.8	445.8	445.8	439.1	439.1	439.1	434.7	425.8	414.7	401.3	374.5
62.5°	401.3	401.3	399.0	392.4	394.6	394.6	390.2	381.3	370.1	361.1	334.4
65°	365.5	365.5	365.5	359.0	359.0	361.1	356.6	347.7	338.9	327.7	303.1
67.5°	321.0	318.8	318.8	314.3	316.5	318.8	314.3	307.7	296.6	289.8	267.6
70°	265.3	267.6	269.7	263.1	265.3	265.3	263.1	256.4	249.7	242.9	222.9
72.5°	216.3	216.3	214.0	211.8	211.8	214.0	209.5	202.9	198.4	194.0	178.3
75°	165.0	162.7	165.0	160.5	160.5	160.5	156.0	153.9	151.6	144.9	133.7
77.5°	120.4	118.1	118.1	113.7	115.9	115.9	113.7	109.3	104.7	102.6	93.6
80°	82.5	82.5	82.5	80.3	80.3	78.1	78.1	75.8	71.3	69.2	64.7
82.5°	55.7	55.7	55.7	53.5	53.5	53.5	51.3	49.0	46.9	44.5	40.1
85°	35.6	35.6	35.6	33.4	33.4	33.4	31.2	31.2	29.0	26.8	22.3
87.5°	20.0	20.0	20.0	17.9	17.9	17.9	17.9	17.9	15.5	13.4	11.1
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°	2331.8	2331.8	2331.8	2331.8	2331.8	2331.8	2331.8	2331.8	2331.8	2331.8	2331.8
2.5°	2322.9	2291.7	2311.7	2311.7	2305.1	2322.9	2334.1	2343.0	2340.6	2320.7	2318.4
5°	2305.1	2278.2	2300.6	2302.8	2296.1	2320.7	2336.2	2347.4	2349.6	2331.8	2334.1
7.5°	2291.7	2269.4	2298.3	2307.2	2305.1	2327.3	2345.2	2363.0	2372.0	2358.5	2360.7
10°	2284.9	2267.1	2298.3	2311.7	2314.0	2338.5	2365.2	2389.8	2400.9	2391.9	2398.7
12.5°	2276.1	2264.9	2300.6	2320.7	2329.5	2354.1	2387.5	2416.5	2434.4	2429.9	2443.2
15°	2267.1	2258.3	2300.6	2329.5	2340.6	2363.0	2400.9	2443.2	2463.3	2461.1	2478.9
17.5°	2244.8	2242.6	2287.2	2318.4	2334.1	2360.7	2396.4	2447.7	2467.8	2472.2	2494.5
20°	2209.2	2209.2	2258.3	2291.7	2309.6	2334.1	2378.6	2427.7	2452.2	2456.7	2481.2
22.5°	2160.1	2164.6	2211.4	2244.8	2271.7	2289.4	2336.2	2387.5	2409.8	2416.5	2443.2
25°	2095.5	2099.9	2144.6	2178.0	2207.0	2227.0	2271.7	2318.4	2345.2	2351.9	2372.0
27.5°	2010.8	2019.7	2062.1	2095.5	2120.0	2133.4	2180.2	2229.3	2249.3	2255.9	2276.1
30°	1912.7	1915.0	1957.3	1986.2	2010.8	2022.0	2062.1	2113.4	2128.9	2135.7	2164.6
32.5°	1792.3	1790.2	1830.2	1857.0	1877.0	1890.4	1932.7	1966.2	1981.8	1993.0	2008.6
35°	1647.5	1645.1	1674.1	1705.4	1721.0	1725.4	1767.8	1803.5	1812.4	1821.2	1841.4
37.5°	1484.7	1484.7	1509.1	1524.9	1542.6	1549.3	1569.4	1609.5	1625.2	1622.8	1638.5
40°	1313.1	1304.2	1321.9	1337.6	1342.0	1344.3	1364.3	1395.4	1406.7	1406.7	1417.8
42.5°	1132.5	1119.1	1121.3	1130.2	1134.6	1119.1	1132.5	1152.5	1145.8	1154.7	1157.1
45°	940.8	920.7	911.8	891.7	896.2	880.5	871.6	876.0	873.9	851.6	856.0
47.5°	784.7	749.0	733.4	704.5	697.8	680.0	668.7	648.6	630.9	630.9	619.7
50°	653.2	617.6	586.2	552.8	541.7	526.1	501.5	474.8	461.4	448.1	436.9
52.5°	548.4	510.5	472.6	436.9	421.4	401.3	367.8	341.1	316.5	303.1	289.8
55°	463.7	421.4	381.3	343.3	323.2	303.1	269.7	238.5	209.5	191.7	180.5
57.5°	399.0	359.0	316.5	276.5	258.6	236.3	200.6	167.1	140.5	120.4	109.3
60°	352.2	312.1	274.2	231.8	214.0	191.7	153.9	122.6	95.8	78.1	64.7
62.5°	312.1	276.5	236.3	198.4	180.5	158.2	122.6	91.4	66.8	49.0	37.9
65°	283.1	247.4	214.0	176.1	160.5	138.2	104.7	75.8	53.5	37.9	26.8
67.5°	249.7	218.4	185.0	153.9	138.2	120.4	89.2	64.7	44.5	31.2	22.3
70°	209.5	185.0	156.0	127.1	115.9	100.3	73.6	53.5	35.6	24.5	17.9
72.5°	167.1	147.1	124.8	102.6	93.6	78.1	60.2	42.4	26.8	17.9	13.4
75°	127.1	111.5	93.6	78.1	69.2	60.2	44.5	31.2	20.0	13.4	8.9
77.5°	86.9	80.3	66.8	53.5	49.0	42.4	29.0	20.0	13.4	8.9	4.4
80°	60.2	53.5	44.5	35.6	31.2	26.8	17.9	13.4	6.7	4.4	2.2
82.5°	37.9	31.2	26.8	22.3	20.0	15.5	11.1	6.7	4.4	2.2	2.2
85°	20.0	17.9	15.5	11.1	11.1	8.9	6.7	4.4	2.2	0.0	0.0
87.5°	11.1	8.9	6.7	4.4	4.4	2.2	2.2	2.2	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°	2331.8	2331.8	2331.8	2331.8	2331.8	2331.8	2331.8	2331.8	2331.8	2331.8	2331.8
2.5°	2345.2	2345.2	2343.0	2369.6	2338.5	2369.6	2354.1	2369.6	2347.4	2345.2	2347.4
5°	2363.0	2369.6	2372.0	2396.4	2367.5	2405.4	2391.9	2405.4	2389.8	2394.3	2400.9
7.5°	2398.7	2409.8	2407.6	2438.8	2409.8	2452.2	2443.2	2463.3	2447.7	2452.2	2461.1
10°	2438.8	2452.2	2454.3	2485.7	2458.8	2510.1	2499.0	2521.3	2508.0	2514.6	2525.7
12.5°	2485.7	2501.2	2503.5	2539.1	2510.1	2563.6	2556.9	2579.3	2568.0	2574.8	2588.2
15°	2521.3	2543.5	2548.1	2583.7	2552.5	2608.2	2603.8	2632.8	2614.9	2626.1	2637.2
17.5°	2539.1	2559.2	2568.0	2601.5	2574.8	2630.5	2626.1	2650.6	2637.2	2648.3	2661.7
20°	2528.0	2552.5	2559.2	2592.7	2565.9	2621.7	2614.9	2639.4	2626.1	2635.0	2648.3
22.5°	2487.8	2512.4	2521.3	2552.5	2528.0	2579.3	2577.0	2599.3	2581.5	2592.7	2603.8
25°	2416.5	2443.2	2447.7	2476.7	2449.9	2503.5	2499.0	2523.5	2510.1	2516.9	2532.4
27.5°	2314.0	2345.2	2351.9	2376.4	2356.3	2400.9	2400.9	2420.9	2405.4	2405.4	2420.9
30°	2191.4	2222.5	2227.0	2247.0	2229.3	2269.4	2271.7	2291.7	2267.1	2280.6	2282.8
32.5°	2042.0	2062.1	2075.4	2093.3	2066.5	2117.8	2111.1	2126.7	2113.4	2113.4	2124.5
35°	1861.4	1886.0	1892.6	1915.0	1892.6	1932.7	1932.7	1941.7	1928.3	1928.3	1946.2
37.5°	1665.2	1683.1	1685.3	1707.5	1689.8	1723.2	1721.0	1727.6	1714.3	1723.2	1723.2
40°	1435.6	1449.1	1453.5	1464.6	1462.4	1486.9	1484.7	1489.1	1482.5	1484.7	1489.1
42.5°	1168.2	1185.9	1194.9	1203.8	1190.5	1223.9	1217.2	1223.9	1221.6	1223.9	1230.6
45°	860.5	873.9	880.5	882.8	878.4	898.4	913.9	900.7	902.8	898.4	907.3
47.5°	622.0	624.2	619.7	633.1	622.0	630.9	635.3	637.5	624.2	622.0	630.9
50°	425.8	436.9	421.4	428.0	425.8	434.7	430.2	432.5	419.1	425.8	421.4
52.5°	283.1	280.9	276.5	278.7	274.2	274.2	274.2	278.7	269.7	265.3	260.8
55°	171.7	167.1	158.2	156.0	156.0	158.2	153.9	149.4	149.4	147.1	147.1
57.5°	100.3	93.6	89.2	86.9	82.5	80.3	78.1	78.1	73.6	73.6	73.6
60°	55.7	49.0	44.5	40.1	40.1	37.9	35.6	33.4	33.4	33.4	31.2
62.5°	29.0	24.5	20.0	17.9	17.9	15.5	13.4	13.4	13.4	13.4	11.1
65°	20.0	15.5	13.4	11.1	11.1	8.9	8.9	8.9	8.9	8.9	8.9
67.5°	15.5	13.4	11.1	8.9	8.9	8.9	6.7	6.7	6.7	6.7	6.7
70°	13.4	8.9	8.9	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
72.5°	8.9	8.9	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
75°	6.7	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
77.5°	2.2	2.2	2.2	2.2	2.2	2.2	0.0	0.0	0.0	0.0	0.0
80°	2.2	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: P844451

CATALOG NUMBER: LD6C40DE010B2750 EU6C40B27 6LBSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2331.8	2331.8	2331.8	2331.8	2331.8	2331.8	2331.8	2331.8
2.5°	2367.5	2365.2	2367.5	2372.0	2363.0	2389.8	2376.4	2389.8
5°	2418.8	2420.9	2423.3	2429.9	2418.8	2452.2	2434.4	2454.3
7.5°	2485.7	2487.8	2490.1	2496.8	2490.1	2523.5	2503.5	2521.3
10°	2554.7	2559.2	2559.2	2570.4	2563.6	2594.8	2581.5	2603.8
12.5°	2619.3	2623.8	2628.3	2635.0	2630.5	2664.0	2652.8	2670.6
15°	2670.6	2679.5	2681.7	2690.6	2686.2	2721.9	2708.5	2726.4
17.5°	2695.2	2704.1	2704.1	2715.3	2710.8	2748.7	2730.8	2750.9
20°	2681.7	2688.5	2690.6	2701.9	2697.4	2735.4	2717.5	2741.9
22.5°	2639.4	2641.7	2643.9	2655.1	2652.8	2686.2	2670.6	2686.2
25°	2561.4	2568.0	2565.9	2574.8	2574.8	2601.5	2583.7	2597.0
27.5°	2449.9	2456.7	2456.7	2467.8	2458.8	2485.7	2467.8	2487.8
30°	2314.0	2320.7	2316.2	2325.1	2316.2	2343.0	2329.5	2336.2
32.5°	2151.2	2151.2	2153.4	2155.7	2151.2	2175.7	2162.3	2175.7
35°	1957.3	1961.7	1964.0	1966.2	1961.7	1979.6	1964.0	1972.8
37.5°	1738.9	1750.0	1747.7	1750.0	1743.3	1765.6	1752.2	1756.7
40°	1504.7	1504.7	1502.5	1507.0	1500.3	1518.1	1509.1	1513.6
42.5°	1232.8	1239.4	1230.6	1241.8	1223.9	1248.3	1239.4	1232.8
45°	925.2	916.2	913.9	916.2	909.5	911.8	918.4	913.9
47.5°	630.9	630.9	626.4	619.7	628.7	630.9	622.0	622.0
50°	423.6	423.6	419.1	416.8	421.4	419.1	414.7	421.4
52.5°	269.7	260.8	260.8	265.3	260.8	256.4	263.1	258.6
55°	147.1	142.7	142.7	147.1	142.7	142.7	140.5	144.9
57.5°	71.3	73.6	71.3	71.3	71.3	71.3	69.2	71.3
60°	31.2	31.2	31.2	31.2	31.2	31.2	31.2	31.2
62.5°	13.4	13.4	11.1	11.1	11.1	11.1	11.1	11.1
65°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
67.5°	6.7	6.7	6.7	6.7	6.7	8.9	6.7	6.7
70°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
72.5°	6.7	6.7	8.9	8.9	8.9	8.9	8.9	8.9
75°	4.4	4.4	4.4	2.2	2.2	2.2	2.2	2.2
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)