

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: P844502

Luminaire Tested: **LD6C40DE010B40 EU6C40B40 6LBSWLI**

Issue Date: 5/7/2024

Test Information

Test Method: LM-79-08
Report Number: P844502
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: LD6C40DE010B40 EU6C40B40 6LBSWLI
Description:
Light Source: -
Ballast/Driver:

Summary

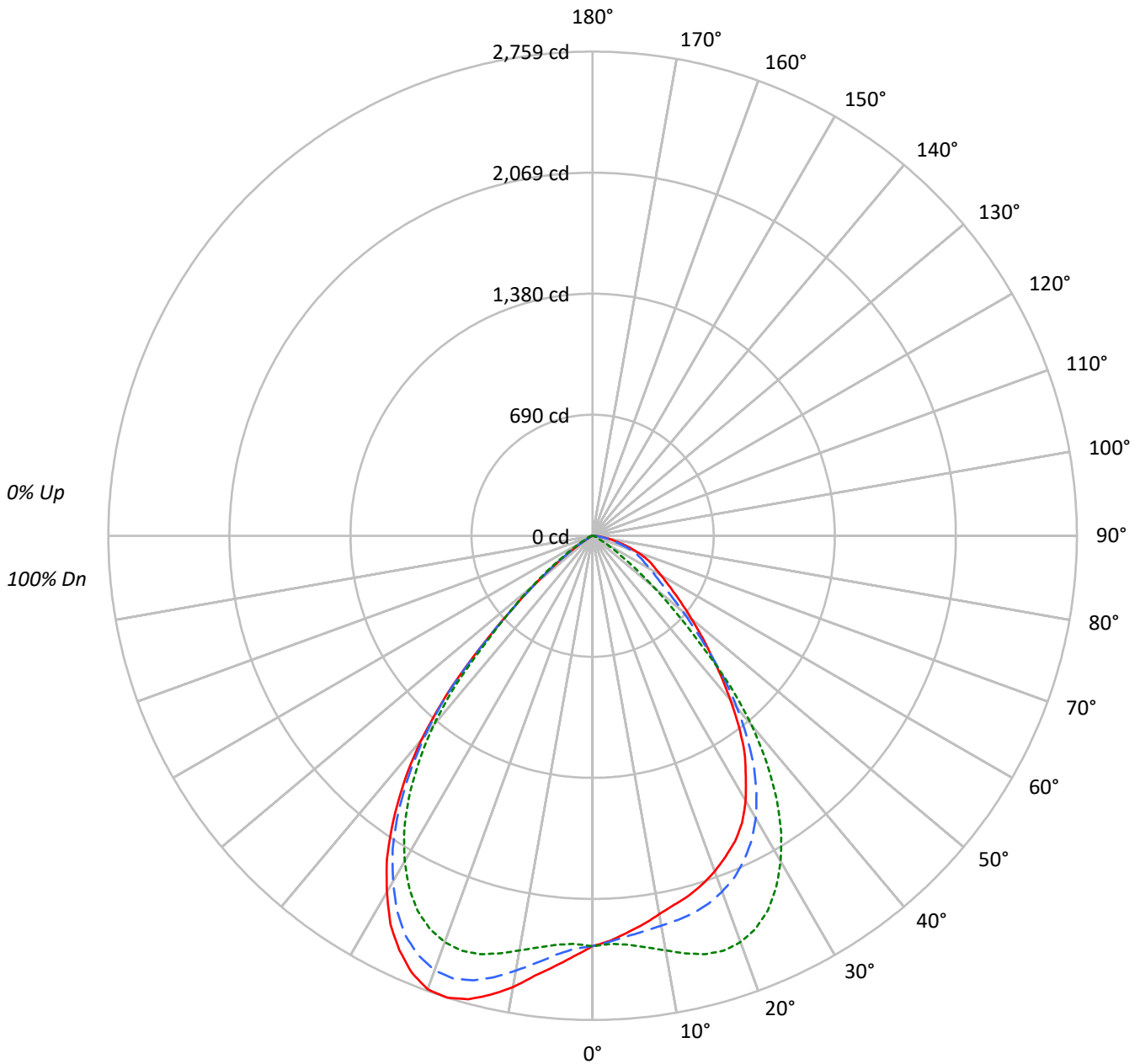
Lumens per Lamp: N/A
Luminaire Lumens: 4275.0 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	128208	128208	128208
5°	124884	128698	135461
10°	121847	133542	145371
15°	120421	140092	155194
20°	118695	143746	160436
25°	116178	142678	157557
30°	110397	135590	148327
35°	101000	122248	132421
40°	87364	100961	108639
45°	73674	66216	71069
50°	62548	38327	36041
55°	54278	18379	13887
60°	49031	8585	3432
65°	47567	4929	1154
70°	42651	3943	1090
75°	35054	2838	466
80°	26108	1389	0
85°	22455	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.9	5.3
10°-20°	688.5	16.1
20°-30°	1051.9	24.6
30°-40°	1100.2	25.7
40°-50°	713.7	16.7
50°-60°	283.4	6.6
60°-70°	134.4	3.1
70°-80°	63.9	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°	1966.3	46.0
0°-40°	3066.5	71.7
0°-60°	4063.6	95.1
0°-90°	4275.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4275.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2339	2339	2339	2339	2339	
5°	2269	2290	2339	2397	2462	214
15°	2122	2225	2468	2623	2734	598
25°	1921	2041	2359	2518	2605	879
35°	1509	1601	1827	1934	1979	933
45°	950	941	854	906	917	739
55°	568	483	192	150	145	515
65°	367	304	38	9	9	358
75°	166	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°	2338.7	2338.7	2338.7	2338.7	2338.7	2338.7	2338.7	2338.7	2338.7	2338.7	2338.7
2.5°	2309.7	2314.1	2289.6	2282.9	2300.8	2307.4	2309.7	2303.0	2305.2	2314.1	2314.1
5°	2269.4	2273.9	2251.5	2244.8	2262.7	2267.2	2273.9	2271.7	2278.4	2291.8	2289.6
7.5°	2231.4	2238.2	2213.5	2204.6	2227.0	2238.2	2242.6	2242.6	2251.5	2269.4	2271.7
10°	2188.9	2197.9	2175.6	2171.0	2195.6	2206.9	2209.1	2213.5	2227.0	2251.5	2255.9
12.5°	2153.2	2162.1	2146.5	2139.7	2166.6	2177.8	2182.2	2191.2	2206.9	2238.2	2242.6
15°	2121.8	2128.6	2110.7	2106.2	2133.0	2146.5	2148.7	2162.1	2182.2	2218.0	2224.7
17.5°	2081.6	2086.1	2072.6	2068.2	2095.1	2108.4	2110.7	2126.3	2150.9	2186.8	2197.9
20°	2034.6	2039.1	2025.7	2021.2	2048.1	2063.7	2066.0	2079.4	2108.4	2146.5	2157.7
22.5°	1978.7	1987.7	1972.1	1967.5	1994.5	2007.8	2014.6	2025.7	2054.8	2092.7	2108.4
25°	1920.7	1920.7	1909.5	1907.2	1931.9	1947.4	1945.2	1960.9	1989.9	2028.0	2041.3
27.5°	1844.6	1842.3	1831.2	1829.0	1855.8	1869.3	1864.7	1880.4	1907.2	1945.2	1958.6
30°	1744.0	1748.5	1732.8	1728.3	1750.7	1773.1	1770.8	1786.4	1813.3	1849.1	1858.1
32.5°	1623.3	1627.7	1625.5	1618.8	1638.9	1650.0	1656.8	1668.0	1690.3	1728.3	1737.3
35°	1509.2	1502.5	1493.6	1493.6	1513.7	1531.6	1524.9	1538.3	1560.6	1598.6	1600.9
37.5°	1368.4	1366.1	1361.6	1357.2	1379.6	1384.0	1386.2	1395.2	1415.3	1446.6	1442.2
40°	1220.8	1222.9	1220.8	1211.8	1225.3	1243.1	1240.9	1245.5	1263.2	1285.6	1279.0
42.5°	1082.2	1082.2	1082.2	1073.3	1088.8	1097.8	1102.3	1100.0	1104.5	1124.7	1115.7
45°	950.3	952.5	950.3	948.1	950.3	954.7	950.3	948.1	948.1	954.7	941.3
47.5°	836.3	836.3	829.5	822.8	829.5	831.7	825.1	818.4	816.1	813.8	791.5
50°	733.4	731.1	728.9	717.7	724.4	726.7	717.7	713.3	704.3	693.2	666.3
52.5°	644.0	641.7	639.4	628.2	632.8	635.0	626.1	617.1	605.9	597.0	563.5
55°	567.9	565.6	565.6	559.1	554.5	559.1	550.0	543.3	527.7	516.4	482.9
57.5°	503.0	503.0	498.6	491.9	494.1	494.1	485.2	476.3	462.8	449.4	422.6
60°	447.2	447.2	447.2	440.4	440.4	440.4	436.0	427.1	415.9	402.4	375.7
62.5°	402.4	402.4	400.2	393.5	395.8	395.8	391.3	382.3	371.2	362.2	335.4
65°	366.7	366.7	366.7	360.0	360.0	362.2	357.8	348.8	339.8	328.7	304.1
67.5°	321.9	319.7	319.7	315.2	317.5	319.7	315.2	308.6	297.4	290.6	268.3
70°	266.1	268.3	270.5	263.9	266.1	266.1	263.9	257.1	250.4	243.7	223.6
72.5°	216.9	216.9	214.6	212.5	212.5	214.6	210.2	203.5	199.0	194.5	178.8
75°	165.5	163.2	165.5	161.0	161.0	161.0	156.4	154.3	152.0	145.3	134.1
77.5°	120.8	118.5	118.5	114.0	116.3	116.3	114.0	109.6	105.0	102.9	93.9
80°	82.7	82.7	82.7	80.5	80.5	78.3	78.3	76.0	71.5	69.4	64.8
82.5°	55.8	55.8	55.8	53.7	53.7	53.7	51.4	49.2	47.0	44.7	40.3
85°	35.7	35.7	35.7	33.5	33.5	33.5	31.3	31.3	29.1	26.8	22.3
87.5°	20.1	20.1	20.1	17.9	17.9	17.9	17.9	17.9	15.7	13.4	11.2
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°	2338.7	2338.7	2338.7	2338.7	2338.7	2338.7	2338.7	2338.7	2338.7	2338.7	2338.7
2.5°	2329.8	2298.4	2318.5	2318.5	2312.0	2329.8	2341.0	2350.0	2347.6	2327.5	2325.3
5°	2312.0	2285.0	2307.4	2309.7	2303.0	2327.5	2343.2	2354.4	2356.6	2338.7	2341.0
7.5°	2298.4	2276.1	2305.2	2314.1	2312.0	2334.3	2352.2	2370.1	2379.0	2365.5	2367.8
10°	2291.8	2273.9	2305.2	2318.5	2320.9	2345.5	2372.3	2396.9	2408.1	2399.0	2405.8
12.5°	2282.9	2271.7	2307.4	2327.5	2336.5	2361.1	2394.6	2423.7	2441.7	2437.1	2450.5
15°	2273.9	2264.9	2307.4	2336.5	2347.6	2370.1	2408.1	2450.5	2470.6	2468.4	2486.3
17.5°	2251.5	2249.4	2294.0	2325.3	2341.0	2367.8	2403.6	2455.0	2475.2	2479.6	2501.9
20°	2215.8	2215.8	2264.9	2298.4	2316.4	2341.0	2385.7	2434.9	2459.5	2464.0	2488.6
22.5°	2166.6	2171.0	2218.0	2251.5	2278.4	2296.2	2343.2	2394.6	2417.0	2423.7	2450.5
25°	2101.7	2106.2	2150.9	2184.4	2213.5	2233.6	2278.4	2325.3	2352.2	2358.8	2379.0
27.5°	2016.8	2025.7	2068.2	2101.7	2126.3	2139.7	2186.8	2235.8	2255.9	2262.7	2282.9
30°	1918.4	1920.7	1963.1	1992.2	2016.8	2028.0	2068.2	2119.7	2135.3	2142.0	2171.0
32.5°	1797.7	1795.4	1835.7	1862.5	1882.6	1896.0	1938.4	1972.1	1987.7	1998.9	2014.6
35°	1652.3	1650.0	1679.1	1710.5	1726.2	1730.6	1773.1	1808.8	1817.8	1826.7	1846.8
37.5°	1489.1	1489.1	1513.7	1529.3	1547.2	1553.9	1574.1	1614.4	1630.0	1627.7	1643.4
40°	1317.0	1308.1	1325.8	1341.6	1346.1	1348.2	1368.4	1399.7	1410.8	1410.8	1422.0
42.5°	1135.8	1122.4	1124.7	1133.6	1138.0	1122.4	1135.8	1155.9	1149.2	1158.2	1160.4
45°	943.5	923.4	914.5	894.3	898.9	883.1	874.2	878.7	876.5	854.1	858.6
47.5°	787.0	751.2	735.6	706.6	699.8	682.0	670.8	650.7	632.8	632.8	621.6
50°	655.1	619.4	588.0	554.5	543.3	527.7	503.0	476.3	462.8	449.4	438.3
52.5°	550.0	512.0	473.9	438.3	422.6	402.4	368.9	342.1	317.5	304.1	290.6
55°	465.0	422.6	382.3	344.3	324.2	304.1	270.5	239.2	210.2	192.3	181.1
57.5°	400.2	360.0	317.5	277.2	259.3	237.0	201.3	167.6	140.9	120.8	109.6
60°	353.2	313.1	275.1	232.6	214.6	192.3	154.3	122.9	96.1	78.3	64.8
62.5°	313.1	277.2	237.0	199.0	181.1	158.8	122.9	91.7	67.1	49.2	38.0
65°	284.0	248.1	214.6	176.6	161.0	138.7	105.0	76.0	53.7	38.0	26.8
67.5°	250.4	219.0	185.5	154.3	138.7	120.8	89.4	64.8	44.7	31.3	22.3
70°	210.2	185.5	156.4	127.4	116.3	100.6	73.8	53.7	35.7	24.6	17.9
72.5°	167.6	147.5	125.2	102.9	93.9	78.3	60.4	42.5	26.8	17.9	13.4
75°	127.4	111.8	93.9	78.3	69.4	60.4	44.7	31.3	20.1	13.4	8.9
77.5°	87.3	80.5	67.1	53.7	49.2	42.5	29.1	20.1	13.4	8.9	4.4
80°	60.4	53.7	44.7	35.7	31.3	26.8	17.9	13.4	6.8	4.4	2.2
82.5°	38.0	31.3	26.8	22.3	20.1	15.7	11.2	6.8	4.4	2.2	2.2
85°	20.1	17.9	15.7	11.2	11.2	8.9	6.8	4.4	2.2	0.0	0.0
87.5°	11.2	8.9	6.8	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°	2338.7	2338.7	2338.7	2338.7	2338.7	2338.7	2338.7	2338.7	2338.7	2338.7	2338.7
2.5°	2352.2	2352.2	2350.0	2376.7	2345.5	2376.7	2361.1	2376.7	2354.4	2352.2	2354.4
5°	2370.1	2376.7	2379.0	2403.6	2374.5	2412.6	2399.0	2412.6	2396.9	2401.4	2408.1
7.5°	2405.8	2417.0	2414.8	2446.1	2417.0	2459.5	2450.5	2470.6	2455.0	2459.5	2468.4
10°	2446.1	2459.5	2461.6	2493.1	2466.2	2517.6	2506.4	2528.8	2515.4	2522.1	2533.2
12.5°	2493.1	2508.7	2510.9	2546.7	2517.6	2571.3	2564.6	2586.9	2575.8	2582.4	2595.9
15°	2528.8	2551.1	2555.7	2591.3	2560.1	2616.0	2611.5	2640.6	2622.7	2633.9	2645.0
17.5°	2546.7	2566.8	2575.8	2609.3	2582.4	2638.4	2633.9	2658.5	2645.0	2656.2	2669.7
20°	2535.5	2560.1	2566.8	2600.4	2573.5	2629.4	2622.7	2647.4	2633.9	2642.8	2656.2
22.5°	2495.2	2519.8	2528.8	2560.1	2535.5	2586.9	2584.8	2607.1	2589.2	2600.4	2611.5
25°	2423.7	2450.5	2455.0	2484.1	2457.2	2510.9	2506.4	2531.0	2517.6	2524.3	2539.9
27.5°	2320.9	2352.2	2358.8	2383.5	2363.4	2408.1	2408.1	2428.1	2412.6	2412.6	2428.1
30°	2197.9	2229.2	2233.6	2253.8	2235.8	2276.1	2278.4	2298.4	2273.9	2287.3	2289.6
32.5°	2048.1	2068.2	2081.6	2099.5	2072.6	2124.2	2117.4	2133.0	2119.7	2119.7	2130.8
35°	1866.9	1891.6	1898.3	1920.7	1898.3	1938.4	1938.4	1947.4	1934.0	1934.0	1952.0
37.5°	1670.2	1688.1	1690.3	1712.6	1694.8	1728.3	1726.2	1732.8	1719.4	1728.3	1728.3
40°	1439.9	1453.3	1457.7	1468.9	1466.7	1491.4	1489.1	1493.6	1486.8	1489.1	1493.6
42.5°	1171.6	1189.4	1198.4	1207.4	1194.0	1227.5	1220.8	1227.5	1225.3	1227.5	1234.3
45°	863.0	876.5	883.1	885.5	881.0	901.0	916.7	903.3	905.5	901.0	910.0
47.5°	623.8	626.1	621.6	635.0	623.8	632.8	637.2	639.4	626.1	623.8	632.8
50°	427.1	438.3	422.6	429.3	427.1	436.0	431.5	433.8	420.3	427.1	422.6
52.5°	284.0	281.6	277.2	279.5	275.1	275.1	275.1	279.5	270.5	266.1	261.7
55°	172.2	167.6	158.8	156.4	156.4	158.8	154.3	149.9	149.9	147.5	147.5
57.5°	100.6	93.9	89.4	87.3	82.7	80.5	78.3	78.3	73.8	73.8	73.8
60°	55.8	49.2	44.7	40.3	40.3	38.0	35.7	33.5	33.5	33.5	31.3
62.5°	29.1	24.6	20.1	17.9	17.9	15.7	13.4	13.4	13.4	13.4	11.2
65°	20.1	15.7	13.4	11.2	11.2	8.9	8.9	8.9	8.9	8.9	8.9
67.5°	15.7	13.4	11.2	8.9	8.9	8.9	6.8	6.8	6.8	6.8	6.8
70°	13.4	8.9	8.9	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
72.5°	8.9	8.9	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
75°	6.8	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: P844502

CATALOG NUMBER: LD6C40DE010B40 EU6C40B40 6LBSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2338.7	2338.7	2338.7	2338.7	2338.7	2338.7	2338.7	2338.7
2.5°	2374.5	2372.3	2374.5	2379.0	2370.1	2396.9	2383.5	2396.9
5°	2426.0	2428.1	2430.4	2437.1	2426.0	2459.5	2441.7	2461.6
7.5°	2493.1	2495.2	2497.5	2504.3	2497.5	2531.0	2510.9	2528.8
10°	2562.3	2566.8	2566.8	2578.0	2571.3	2602.5	2589.2	2611.5
12.5°	2627.2	2631.6	2636.2	2642.8	2638.4	2671.9	2660.7	2678.6
15°	2678.6	2687.4	2689.8	2698.7	2694.2	2730.1	2716.5	2734.5
17.5°	2703.2	2712.1	2712.1	2723.3	2718.9	2756.8	2739.0	2759.0
20°	2689.8	2696.4	2698.7	2710.0	2705.4	2743.5	2725.5	2750.1
22.5°	2647.4	2649.5	2651.8	2662.9	2660.7	2694.2	2678.6	2694.2
25°	2569.0	2575.8	2573.5	2582.4	2582.4	2609.3	2591.3	2604.8
27.5°	2457.2	2464.0	2464.0	2475.2	2466.2	2493.1	2475.2	2495.2
30°	2320.9	2327.5	2323.1	2332.0	2323.1	2350.0	2336.5	2343.2
32.5°	2157.7	2157.7	2159.8	2162.1	2157.7	2182.2	2168.8	2182.2
35°	1963.1	1967.5	1969.8	1972.1	1967.5	1985.5	1969.8	1978.7
37.5°	1744.0	1755.1	1752.9	1755.1	1748.5	1770.8	1757.4	1761.9
40°	1509.2	1509.2	1506.9	1511.5	1504.8	1522.7	1513.7	1518.1
42.5°	1236.5	1243.1	1234.3	1245.5	1227.5	1252.0	1243.1	1236.5
45°	928.0	919.0	916.7	919.0	912.2	914.5	921.2	916.7
47.5°	632.8	632.8	628.2	621.6	630.6	632.8	623.8	623.8
50°	424.9	424.9	420.3	418.1	422.6	420.3	415.9	422.6
52.5°	270.5	261.7	261.7	266.1	261.7	257.1	263.9	259.3
55°	147.5	143.1	143.1	147.5	143.1	143.1	140.9	145.3
57.5°	71.5	73.8	71.5	71.5	71.5	71.5	69.4	71.5
60°	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
62.5°	13.4	13.4	11.2	11.2	11.2	11.2	11.2	11.2
65°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
67.5°	6.8	6.8	6.8	6.8	6.8	8.9	6.8	6.8
70°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
72.5°	6.8	6.8	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)