

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: P844485

Luminaire Tested: **LD6C40DE010B35 EU6C40B35 6LBSWLI**

Issue Date: 5/7/2024

Test Information

Test Method: LM-79-08
Report Number: P844485
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: LD6C40DE010B35 EU6C40B35 6LBSWLI
Description:
Light Source: -
Ballast/Driver:

Summary

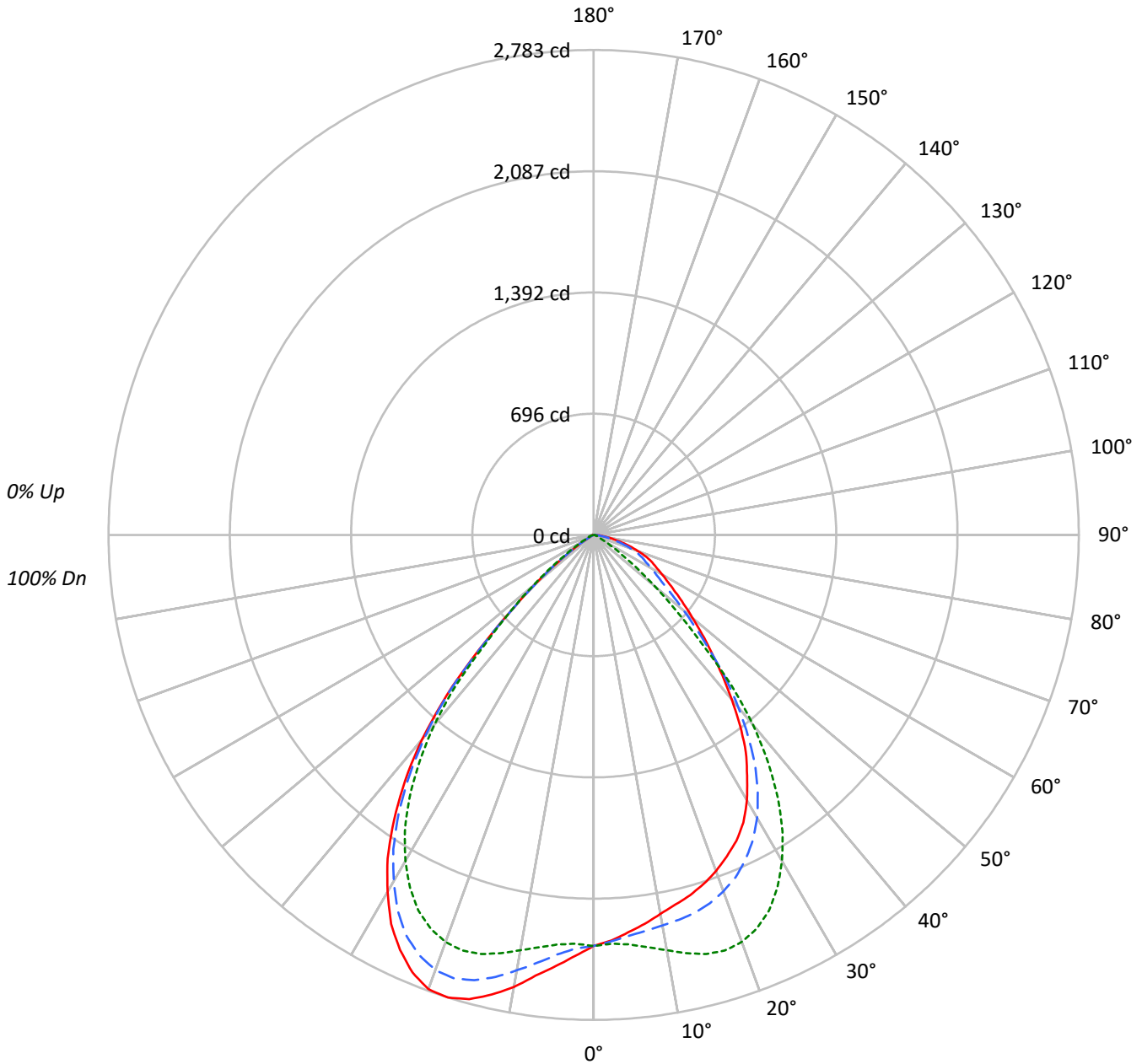
Lumens per Lamp: N/A
Luminaire Lumens: 4312.0 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P844485

CATALOG NUMBER: LD6C40DE010B35 EU6C40B35 6LBSWLI

Luminous Intensity Polar Plot





TEST NUMBER: P844485

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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°	129315	129315	129315
5°	125963	129809	136638
10°	122899	134706	146629
15°	121465	141306	156539
20°	119722	144988	161831
25°	117182	143918	158925
30°	111359	136762	149612
35°	101877	123306	133572
40°	88122	101834	109577
45°	74310	66790	71682
50°	63085	38660	36357
55°	54746	18542	14011
60°	49459	8651	3454
65°	47982	4968	1167
70°	43004	3991	1090
75°	35351	2859	487
80°	26329	1389	0
85°	22707	0	0



TEST NUMBER: P844485

CATALOG NUMBER: LD6C40DE010B35 EU6C40B35 6LBSWLI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.9	5.3
10°-20°	694.4	16.1
20°-30°	1061.0	24.6
30°-40°	1109.7	25.7
40°-50°	719.9	16.7
50°-60°	285.8	6.6
60°-70°	135.6	3.1
70°-80°	64.5	1.5
80°-90°	13.2	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°	1983.3	46.0
0°-40°	3093.0	71.7
0°-60°	4098.8	95.1
0°-90°	4312.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4312.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2359	2359	2359	2359	2359	
5°	2289	2309	2359	2418	2483	216
15°	2140	2244	2490	2646	2758	603
25°	1937	2059	2379	2539	2627	887
35°	1522	1615	1842	1951	1996	941
45°	958	949	862	913	925	746
55°	573	487	194	151	147	519
65°	370	307	38	9	9	361
75°	167	135	14	4	2	180
85°	36	22	0	0	0	42
90°	0	0	0	0	0	



TEST NUMBER: P844485

CATALOG NUMBER: LD6C40DE010B35 EU6C40B35 6LBSWLI

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	2358.9	2358.9	2358.9	2358.9	2358.9	2358.9	2358.9	2358.9	2358.9	2358.9	2358.9
2.5°	2329.6	2334.2	2309.4	2302.7	2320.7	2327.4	2329.6	2322.9	2325.2	2334.2	2334.2
5°	2289.0	2293.6	2271.1	2264.2	2282.3	2286.8	2293.6	2291.4	2298.1	2311.6	2309.4
7.5°	2250.8	2257.5	2232.7	2223.7	2246.3	2257.5	2262.1	2262.1	2271.1	2289.0	2291.4
10°	2207.8	2216.9	2194.4	2189.8	2214.7	2225.9	2228.2	2232.7	2246.3	2271.1	2275.5
12.5°	2171.9	2180.8	2165.1	2158.3	2185.3	2196.6	2201.0	2210.1	2225.9	2257.5	2262.1
15°	2140.2	2147.0	2128.9	2124.5	2151.5	2165.1	2167.3	2180.8	2201.0	2237.2	2244.0
17.5°	2099.6	2104.1	2090.6	2086.2	2113.2	2126.7	2128.9	2144.7	2169.5	2205.7	2216.9
20°	2052.2	2056.8	2043.2	2038.8	2065.8	2081.5	2083.9	2097.4	2126.7	2165.1	2176.3
22.5°	1995.9	2005.0	1989.2	1984.5	2011.7	2025.2	2031.9	2043.2	2072.5	2110.9	2126.7
25°	1937.3	1937.3	1926.1	1923.7	1948.6	1964.3	1962.0	1977.8	2007.2	2045.6	2059.0
27.5°	1860.6	1858.3	1847.1	1844.8	1871.9	1885.4	1880.8	1896.7	1923.7	1962.0	1975.6
30°	1759.2	1763.6	1747.8	1743.3	1765.9	1788.5	1786.1	1801.9	1829.0	1865.0	1874.1
32.5°	1637.3	1641.8	1639.6	1632.8	1653.1	1664.4	1671.2	1682.4	1704.9	1743.3	1752.3
35°	1522.3	1515.5	1506.5	1506.5	1526.8	1544.9	1538.0	1551.7	1574.2	1612.5	1614.8
37.5°	1380.2	1377.9	1373.4	1368.9	1391.5	1396.0	1398.3	1407.3	1427.6	1459.1	1454.7
40°	1231.4	1233.6	1231.4	1222.3	1235.8	1253.9	1251.6	1256.3	1274.1	1296.8	1290.0
42.5°	1091.5	1091.5	1091.5	1082.5	1098.2	1107.3	1111.9	1109.6	1114.1	1134.4	1125.3
45°	958.5	960.8	958.5	956.2	958.5	963.0	958.5	956.2	956.2	963.0	949.4
47.5°	843.5	843.5	836.7	829.9	836.7	838.9	832.3	825.5	823.2	820.9	798.4
50°	739.7	737.5	735.3	724.0	730.7	732.9	724.0	719.4	710.4	699.1	672.1
52.5°	649.6	647.3	644.9	633.7	638.3	640.5	631.5	622.4	611.1	602.2	568.4
55°	572.8	570.6	570.6	563.8	559.3	563.8	554.8	548.0	532.2	521.0	487.1
57.5°	507.5	507.5	502.9	496.1	498.5	498.5	489.5	480.4	466.8	453.3	426.3
60°	451.1	451.1	451.1	444.2	444.2	444.2	439.8	430.8	419.5	405.9	379.0
62.5°	405.9	405.9	403.7	396.9	399.2	399.2	394.7	385.7	374.4	365.3	338.3
65°	369.9	369.9	369.9	363.1	363.1	365.3	360.9	351.9	342.8	331.5	306.7
67.5°	324.7	322.6	322.6	317.9	320.3	322.6	317.9	311.3	299.9	293.2	270.6
70°	268.3	270.6	272.9	266.2	268.3	268.3	266.2	259.3	252.6	245.8	225.6
72.5°	218.8	218.8	216.5	214.3	214.3	216.5	211.9	205.2	200.7	196.2	180.3
75°	166.9	164.6	166.9	162.5	162.5	162.5	157.8	155.6	153.4	146.6	135.3
77.5°	121.8	119.5	119.5	115.1	117.3	117.3	115.1	110.5	106.0	103.8	94.7
80°	83.4	83.4	83.4	81.2	81.2	78.9	78.9	76.7	72.1	69.9	65.5
82.5°	56.4	56.4	56.4	54.2	54.2	54.2	51.8	49.6	47.4	45.1	40.6
85°	36.1	36.1	36.1	33.8	33.8	33.8	31.5	31.5	29.3	27.1	22.5
87.5°	20.3	20.3	20.3	18.1	18.1	18.1	18.1	18.1	15.8	13.5	11.3
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: P844485

CATALOG NUMBER: LD6C40DE010B35 EU6C40B35 6LBSWLI

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	2358.9	2358.9	2358.9	2358.9	2358.9	2358.9	2358.9	2358.9	2358.9	2358.9	2358.9
2.5°	2350.0	2318.4	2338.6	2338.6	2332.0	2350.0	2361.3	2370.3	2367.9	2347.7	2345.4
5°	2332.0	2304.8	2327.4	2329.6	2322.9	2347.7	2363.5	2374.8	2377.0	2358.9	2361.3
7.5°	2318.4	2295.8	2325.2	2334.2	2332.0	2354.5	2372.6	2390.6	2399.6	2386.0	2388.3
10°	2311.6	2293.6	2325.2	2338.6	2341.0	2365.8	2392.8	2417.6	2429.0	2419.9	2426.6
12.5°	2302.7	2291.4	2327.4	2347.7	2356.7	2381.6	2415.3	2444.7	2462.7	2458.3	2471.7
15°	2293.6	2284.6	2327.4	2356.7	2367.9	2390.6	2429.0	2471.7	2492.1	2489.8	2507.9
17.5°	2271.1	2268.8	2313.9	2345.4	2361.3	2388.3	2424.3	2476.2	2496.5	2501.1	2523.6
20°	2235.0	2235.0	2284.6	2318.4	2336.4	2361.3	2406.3	2455.9	2480.8	2485.3	2510.1
22.5°	2185.3	2189.8	2237.2	2271.1	2298.1	2316.1	2363.5	2415.3	2438.0	2444.7	2471.7
25°	2119.9	2124.5	2169.5	2203.4	2232.7	2253.0	2298.1	2345.4	2372.6	2379.3	2399.6
27.5°	2034.3	2043.2	2086.2	2119.9	2144.7	2158.3	2205.7	2255.2	2275.5	2282.3	2302.7
30°	1935.0	1937.3	1980.1	2009.4	2034.3	2045.6	2086.2	2138.0	2153.8	2160.5	2189.8
32.5°	1813.2	1811.0	1851.6	1878.7	1898.9	1912.4	1955.2	1989.2	2005.0	2016.2	2031.9
35°	1666.6	1664.4	1693.7	1725.3	1741.1	1745.5	1788.5	1824.5	1833.5	1842.5	1862.9
37.5°	1502.1	1502.1	1526.8	1542.7	1560.6	1567.4	1587.7	1628.3	1644.1	1641.8	1657.5
40°	1328.4	1319.4	1337.4	1353.1	1357.7	1359.9	1380.2	1411.7	1423.0	1423.0	1434.3
42.5°	1145.6	1132.1	1134.4	1143.4	1147.8	1132.1	1145.6	1165.9	1159.2	1168.3	1170.5
45°	951.8	931.4	922.4	902.1	906.6	890.7	881.9	886.3	884.1	861.5	866.0
47.5°	793.9	757.8	741.9	712.7	706.0	687.9	676.6	656.3	638.3	638.3	627.0
50°	660.8	624.7	593.1	559.3	548.0	532.2	507.5	480.4	466.8	453.3	442.1
52.5°	554.8	516.4	478.1	442.1	426.3	405.9	372.1	345.1	320.3	306.7	293.2
55°	469.1	426.3	385.7	347.3	327.0	306.7	272.9	241.4	211.9	194.0	182.7
57.5°	403.7	363.1	320.3	279.6	261.6	239.0	203.0	169.1	142.0	121.8	110.5
60°	356.3	315.7	277.4	234.6	216.5	194.0	155.6	124.1	97.0	78.9	65.5
62.5°	315.7	279.6	239.0	200.7	182.7	160.1	124.1	92.4	67.7	49.6	38.3
65°	286.4	250.3	216.5	178.2	162.5	139.8	106.0	76.7	54.2	38.3	27.1
67.5°	252.6	220.9	187.2	155.6	139.8	121.8	90.2	65.5	45.1	31.5	22.5
70°	211.9	187.2	157.8	128.6	117.3	101.4	74.5	54.2	36.1	24.9	18.1
72.5°	169.1	148.8	126.3	103.8	94.7	78.9	60.8	42.9	27.1	18.1	13.5
75°	128.6	112.7	94.7	78.9	69.9	60.8	45.1	31.5	20.3	13.5	9.0
77.5°	88.0	81.2	67.7	54.2	49.6	42.9	29.3	20.3	13.5	9.0	4.4
80°	60.8	54.2	45.1	36.1	31.5	27.1	18.1	13.5	6.8	4.4	2.3
82.5°	38.3	31.5	27.1	22.5	20.3	15.8	11.3	6.8	4.4	2.3	2.3
85°	20.3	18.1	15.8	11.3	11.3	9.0	6.8	4.4	2.3	0.0	0.0
87.5°	11.3	9.0	6.8	4.4	4.4	2.3	2.3	2.3	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: P844485

CATALOG NUMBER: LD6C40DE010B35 EU6C40B35 6LBSWLI

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	2358.9	2358.9	2358.9	2358.9	2358.9	2358.9	2358.9	2358.9	2358.9	2358.9	2358.9
2.5°	2372.6	2372.6	2370.3	2397.3	2365.8	2397.3	2381.6	2397.3	2374.8	2372.6	2374.8
5°	2390.6	2397.3	2399.6	2424.3	2395.1	2433.4	2419.9	2433.4	2417.6	2422.2	2429.0
7.5°	2426.6	2438.0	2435.7	2467.2	2438.0	2480.8	2471.7	2492.1	2476.2	2480.8	2489.8
10°	2467.2	2480.8	2483.0	2514.6	2487.4	2539.4	2528.1	2550.7	2537.2	2543.9	2555.2
12.5°	2514.6	2530.4	2532.7	2568.7	2539.4	2593.5	2586.8	2609.3	2598.1	2604.8	2618.4
15°	2550.7	2573.2	2577.8	2613.8	2582.3	2638.6	2634.1	2663.4	2645.5	2656.7	2668.0
17.5°	2568.7	2589.1	2598.1	2631.8	2604.8	2661.2	2656.7	2681.5	2668.0	2679.2	2692.8
20°	2557.5	2582.3	2589.1	2622.8	2595.9	2652.2	2645.5	2670.2	2656.7	2665.7	2679.2
22.5°	2516.9	2541.7	2550.7	2582.3	2557.5	2609.3	2607.1	2629.7	2611.6	2622.8	2634.1
25°	2444.7	2471.7	2476.2	2505.5	2478.6	2532.7	2528.1	2552.9	2539.4	2546.1	2561.9
27.5°	2341.0	2372.6	2379.3	2404.1	2383.8	2429.0	2429.0	2449.2	2433.4	2433.4	2449.2
30°	2216.9	2248.4	2253.0	2273.3	2255.2	2295.8	2298.1	2318.4	2293.6	2307.1	2309.4
32.5°	2065.8	2086.2	2099.6	2117.7	2090.6	2142.6	2135.7	2151.5	2138.0	2138.0	2149.3
35°	1883.1	1908.0	1914.7	1937.3	1914.7	1955.2	1955.2	1964.3	1950.8	1950.8	1968.8
37.5°	1684.7	1702.8	1704.9	1727.5	1709.5	1743.3	1741.1	1747.8	1734.3	1743.3	1743.3
40°	1452.3	1465.9	1470.4	1481.6	1479.5	1504.3	1502.1	1506.5	1499.7	1502.1	1506.5
42.5°	1181.8	1199.8	1208.9	1217.8	1204.3	1238.2	1231.4	1238.2	1235.8	1238.2	1244.9
45°	870.5	884.1	890.7	893.1	888.6	908.8	924.6	911.2	913.4	908.8	917.9
47.5°	629.2	631.5	627.0	640.5	629.2	638.3	642.7	644.9	631.5	629.2	638.3
50°	430.8	442.1	426.3	433.0	430.8	439.8	435.2	437.5	424.0	430.8	426.3
52.5°	286.4	284.1	279.6	282.0	277.4	277.4	277.4	282.0	272.9	268.3	263.9
55°	173.7	169.1	160.1	157.8	157.8	160.1	155.6	151.1	151.1	148.8	148.8
57.5°	101.4	94.7	90.2	88.0	83.4	81.2	78.9	78.9	74.5	74.5	74.5
60°	56.4	49.6	45.1	40.6	40.6	38.3	36.1	33.8	33.8	33.8	31.5
62.5°	29.3	24.9	20.3	18.1	18.1	15.8	13.5	13.5	13.5	13.5	11.3
65°	20.3	15.8	13.5	11.3	11.3	9.0	9.0	9.0	9.0	9.0	9.0
67.5°	15.8	13.5	11.3	9.0	9.0	9.0	6.8	6.8	6.8	6.8	6.8
70°	13.5	9.0	9.0	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
72.5°	9.0	9.0	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°	2.3	2.3	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0
80°	2.3	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: P844485

CATALOG NUMBER: LD6C40DE010B35 EU6C40B35 6LBSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2358.9	2358.9	2358.9	2358.9	2358.9	2358.9	2358.9	2358.9
2.5°	2395.1	2392.8	2395.1	2399.6	2390.6	2417.6	2404.1	2417.6
5°	2446.9	2449.2	2451.5	2458.3	2446.9	2480.8	2462.7	2483.0
7.5°	2514.6	2516.9	2519.1	2525.9	2519.1	2552.9	2532.7	2550.7
10°	2584.5	2589.1	2589.1	2600.3	2593.5	2625.0	2611.6	2634.1
12.5°	2649.9	2654.4	2659.0	2665.7	2661.2	2695.0	2683.7	2701.8
15°	2701.8	2710.8	2713.0	2722.0	2717.6	2753.7	2740.1	2758.2
17.5°	2726.6	2735.6	2735.6	2746.9	2742.3	2780.7	2762.6	2783.0
20°	2713.0	2719.8	2722.0	2733.3	2728.8	2767.2	2749.2	2774.0
22.5°	2670.2	2672.4	2674.8	2686.0	2683.7	2717.6	2701.8	2717.6
25°	2591.2	2598.1	2595.9	2604.8	2604.8	2631.8	2613.8	2627.4
27.5°	2478.6	2485.3	2485.3	2496.5	2487.4	2514.6	2496.5	2516.9
30°	2341.0	2347.7	2343.2	2352.2	2343.2	2370.3	2356.7	2363.5
32.5°	2176.3	2176.3	2178.5	2180.8	2176.3	2201.0	2187.6	2201.0
35°	1980.1	1984.5	1986.9	1989.2	1984.5	2002.6	1986.9	1995.9
37.5°	1759.2	1770.4	1768.2	1770.4	1763.6	1786.1	1772.6	1777.1
40°	1522.3	1522.3	1520.0	1524.6	1517.8	1535.9	1526.8	1531.2
42.5°	1247.2	1253.9	1244.9	1256.3	1238.2	1262.9	1253.9	1247.2
45°	936.0	926.9	924.6	926.9	920.1	922.4	929.2	924.6
47.5°	638.3	638.3	633.7	627.0	636.0	638.3	629.2	629.2
50°	428.4	428.4	424.0	421.7	426.3	424.0	419.5	426.3
52.5°	272.9	263.9	263.9	268.3	263.9	259.3	266.2	261.6
55°	148.8	144.4	144.4	148.8	144.4	144.4	142.0	146.6
57.5°	72.1	74.5	72.1	72.1	72.1	72.1	69.9	72.1
60°	31.5	31.5	31.5	31.5	31.5	31.5	31.5	31.5
62.5°	13.5	13.5	11.3	11.3	11.3	11.3	11.3	11.3
65°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
67.5°	6.8	6.8	6.8	6.8	6.8	9.0	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	9.0	9.0	9.0	9.0	9.0	9.0
75°	4.4	4.4	4.4	2.3	2.3	2.3	2.3	2.3
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)