

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: P844468

Luminaire Tested: **LD6C40DE010B2750 EU6C40B30 6LBSWLI**

Issue Date: 5/7/2024



Test Information

Test Method: LM-79-08
Report Number: P844468
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 EU6C40B30 6LBSWLI
Description:
Light Source: -
Ballast/Driver:

Summary

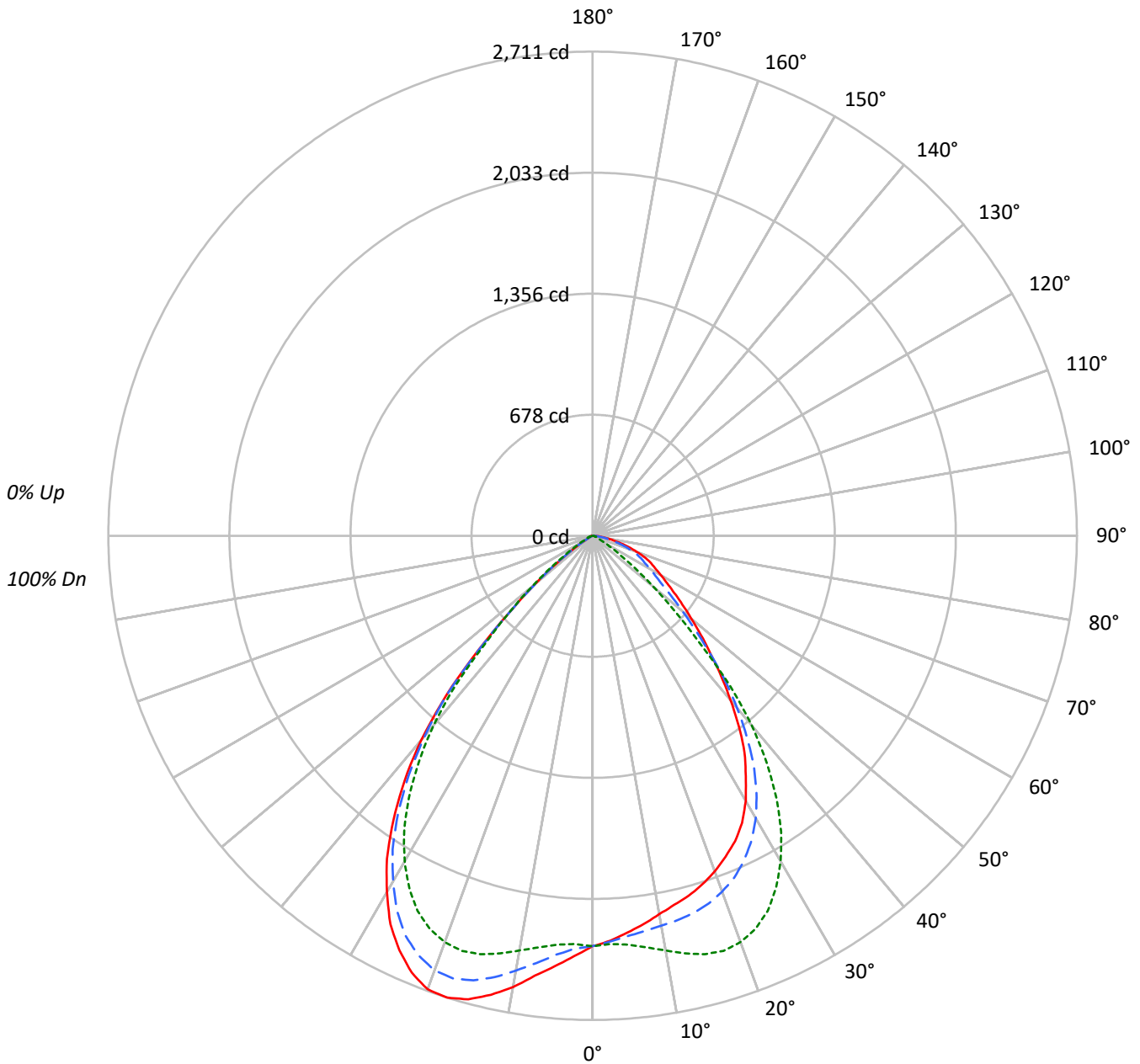
Lumens per Lamp: N/A
Luminaire Lumens: 4200.9 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	125988	125988	125988
5°	122721	126469	133117
10°	119737	131238	142855
15°	118338	137668	152504
20°	116642	141249	157660
25°	114158	140210	154830
30°	108485	133242	145757
35°	99254	120134	130132
40°	85854	99207	106757
45°	72395	65069	69837
50°	61465	37670	35419
55°	53341	18064	13648
60°	48176	8431	3366
65°	46737	4838	1141
70°	41898	3879	1058
75°	34440	2796	466
80°	25635	1357	0
85°	22140	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.0	5.3
10°-20°	676.5	16.1
20°-30°	1033.7	24.6
30°-40°	1081.1	25.7
40°-50°	701.3	16.7
50°-60°	278.5	6.6
60°-70°	132.1	3.1
70°-80°	62.8	1.5
80°-90°	12.8	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°	1932.2	46.0
0°-40°	3013.4	71.7
0°-60°	3993.2	95.1
0°-90°	4200.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4200.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2298	2298	2298	2298	2298	
5°	2230	2250	2298	2355	2419	211
15°	2085	2186	2426	2577	2687	588
25°	1887	2006	2318	2474	2560	864
35°	1483	1573	1795	1901	1944	917
45°	934	925	839	890	901	727
55°	558	475	189	147	143	506
65°	360	299	37	9	9	352
75°	163	132	13	4	2	175
85°	35	22	0	0	0	41
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°	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2
2.5°	2269.7	2274.0	2249.9	2243.3	2260.9	2267.5	2269.7	2263.0	2265.2	2274.0	2274.0
5°	2230.1	2234.5	2212.6	2205.9	2223.5	2228.0	2234.5	2232.3	2238.9	2252.1	2249.9
7.5°	2192.8	2199.3	2175.2	2166.5	2188.5	2199.3	2203.8	2203.8	2212.6	2230.1	2232.3
10°	2151.0	2159.8	2137.9	2133.5	2157.6	2168.6	2170.8	2175.2	2188.5	2212.6	2216.9
12.5°	2115.9	2124.7	2109.3	2102.7	2129.0	2140.0	2144.4	2153.2	2168.6	2199.3	2203.8
15°	2085.1	2091.7	2074.1	2069.8	2096.1	2109.3	2111.5	2124.7	2144.4	2179.6	2186.1
17.5°	2045.6	2049.9	2036.8	2032.5	2058.8	2071.9	2074.1	2089.5	2113.7	2148.9	2159.8
20°	1999.4	2003.8	1990.7	1986.2	2012.6	2027.9	2030.2	2043.3	2071.9	2109.3	2120.2
22.5°	1944.5	1953.3	1937.9	1933.5	1959.9	1973.0	1979.7	1990.7	2019.2	2056.6	2071.9
25°	1887.3	1887.3	1876.5	1874.2	1898.3	1913.8	1911.5	1926.9	1955.5	1992.9	2006.0
27.5°	1812.7	1810.5	1799.5	1797.3	1823.7	1836.9	1832.4	1847.8	1874.2	1911.5	1924.7
30°	1713.8	1718.2	1702.8	1698.3	1720.5	1742.3	1740.1	1755.6	1781.9	1817.0	1825.9
32.5°	1595.1	1599.6	1597.3	1590.8	1610.5	1621.5	1628.1	1639.1	1661.0	1698.3	1707.2
35°	1483.1	1476.5	1467.7	1467.7	1487.5	1505.0	1498.5	1511.7	1533.6	1570.9	1573.1
37.5°	1344.7	1342.5	1338.1	1333.7	1355.7	1360.0	1362.2	1371.0	1390.8	1421.6	1417.2
40°	1199.7	1201.8	1199.7	1190.8	1204.0	1221.7	1219.3	1223.9	1241.3	1263.3	1256.8
42.5°	1063.5	1063.5	1063.5	1054.7	1070.0	1078.9	1083.2	1081.0	1085.3	1105.2	1096.3
45°	933.8	936.0	933.8	931.6	933.8	938.2	933.8	931.6	931.6	938.2	925.0
47.5°	821.8	821.8	815.1	808.6	815.1	817.3	810.8	804.2	801.9	799.8	777.8
50°	720.7	718.5	716.3	705.3	711.9	714.1	705.3	700.9	692.1	681.1	654.8
52.5°	632.8	630.6	628.3	617.3	621.9	624.0	615.2	606.4	595.4	586.7	553.7
55°	558.1	555.9	555.9	549.3	544.9	549.3	540.5	533.9	518.6	507.6	474.6
57.5°	494.3	494.3	490.0	483.3	485.6	485.6	476.8	468.0	454.8	441.7	415.3
60°	439.4	439.4	439.4	432.8	432.8	432.8	428.4	419.7	408.7	395.4	369.1
62.5°	395.4	395.4	393.2	386.8	388.9	388.9	384.4	375.8	364.8	355.9	329.6
65°	360.3	360.3	360.3	353.8	353.8	355.9	351.6	342.8	334.0	323.0	298.8
67.5°	316.3	314.2	314.2	309.8	312.0	314.2	309.8	303.2	292.2	285.7	263.7
70°	261.4	263.7	265.8	259.3	261.4	261.4	259.3	252.7	246.1	239.4	219.8
72.5°	213.1	213.1	210.9	208.8	208.8	210.9	206.6	199.9	195.6	191.2	175.8
75°	162.6	160.3	162.6	158.2	158.2	158.2	153.8	151.7	149.3	142.8	131.8
77.5°	118.7	116.4	116.4	112.1	114.3	114.3	112.1	107.7	103.2	101.1	92.2
80°	81.2	81.2	81.2	79.1	79.1	76.9	76.9	74.8	70.2	68.1	63.8
82.5°	54.9	54.9	54.9	52.8	52.8	52.8	50.6	48.3	46.1	43.9	39.6
85°	35.2	35.2	35.2	33.0	33.0	33.0	30.7	30.7	28.6	26.3	22.0
87.5°	19.8	19.8	19.8	17.6	17.6	17.6	17.6	17.6	15.3	13.2	11.0
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°	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2
2.5°	2289.4	2258.7	2278.5	2278.5	2271.9	2289.4	2300.5	2309.2	2307.0	2287.2	2285.0
5°	2271.9	2245.5	2267.5	2269.7	2263.0	2287.2	2302.6	2313.6	2315.8	2298.2	2300.5
7.5°	2258.7	2236.7	2265.2	2274.0	2271.9	2293.9	2311.5	2329.0	2337.8	2324.6	2326.8
10°	2252.1	2234.5	2265.2	2278.5	2280.7	2304.9	2331.2	2355.4	2366.3	2357.6	2364.1
12.5°	2243.3	2232.3	2267.5	2287.2	2296.0	2320.2	2353.1	2381.7	2399.3	2394.9	2408.1
15°	2234.5	2225.7	2267.5	2296.0	2307.0	2329.0	2366.3	2408.1	2427.9	2425.7	2443.2
17.5°	2212.6	2210.3	2254.3	2285.0	2300.5	2326.8	2361.9	2412.5	2432.2	2436.7	2458.6
20°	2177.5	2177.5	2225.7	2258.7	2276.2	2300.5	2344.5	2392.7	2416.9	2421.2	2445.5
22.5°	2129.0	2133.5	2179.6	2212.6	2238.9	2256.5	2302.6	2353.1	2375.1	2381.7	2408.1
25°	2065.3	2069.8	2113.7	2146.6	2175.2	2194.9	2238.9	2285.0	2311.5	2318.0	2337.8
27.5°	1981.9	1990.7	2032.5	2065.3	2089.5	2102.7	2148.9	2197.1	2216.9	2223.5	2243.3
30°	1885.1	1887.3	1929.1	1957.7	1981.9	1992.9	2032.5	2082.9	2098.3	2104.9	2133.5
32.5°	1766.5	1764.3	1803.9	1830.2	1850.0	1863.2	1904.9	1937.9	1953.3	1964.2	1979.7
35°	1623.7	1621.5	1650.0	1680.9	1696.2	1700.6	1742.3	1777.5	1786.3	1795.1	1814.9
37.5°	1463.3	1463.3	1487.5	1502.9	1520.5	1527.0	1546.8	1586.3	1601.8	1599.6	1614.9
40°	1294.1	1285.3	1302.9	1318.3	1322.7	1324.9	1344.7	1375.3	1386.3	1386.3	1397.3
42.5°	1116.1	1103.0	1105.2	1113.9	1118.3	1103.0	1116.1	1135.9	1129.3	1138.1	1140.3
45°	927.2	907.4	898.7	878.8	883.3	867.9	859.1	863.5	861.3	839.3	843.8
47.5°	773.3	738.2	722.8	694.3	687.8	670.1	659.1	639.3	621.9	621.9	610.8
50°	643.8	608.7	577.8	544.9	533.9	518.6	494.3	468.0	454.8	441.7	430.7
52.5°	540.5	503.1	465.8	430.7	415.3	395.4	362.6	336.2	312.0	298.8	285.7
55°	457.0	415.3	375.8	338.3	318.6	298.8	265.8	235.1	206.6	189.0	178.0
57.5°	393.2	353.8	312.0	272.4	254.9	232.9	197.8	164.8	138.4	118.7	107.7
60°	347.2	307.7	270.3	228.6	210.9	189.0	151.7	120.8	94.4	76.9	63.8
62.5°	307.7	272.4	232.9	195.6	178.0	156.0	120.8	90.1	65.9	48.3	37.3
65°	279.0	243.9	210.9	173.6	158.2	136.2	103.2	74.8	52.8	37.3	26.3
67.5°	246.1	215.3	182.3	151.7	136.2	118.7	87.9	63.8	43.9	30.7	22.0
70°	206.6	182.3	153.8	125.2	114.3	98.9	72.6	52.8	35.2	24.2	17.6
72.5°	164.8	145.0	123.0	101.1	92.2	76.9	59.3	41.8	26.3	17.6	13.2
75°	125.2	109.8	92.2	76.9	68.1	59.3	43.9	30.7	19.8	13.2	8.8
77.5°	85.7	79.1	65.9	52.8	48.3	41.8	28.6	19.8	13.2	8.8	4.3
80°	59.3	52.8	43.9	35.2	30.7	26.3	17.6	13.2	6.6	4.3	2.2
82.5°	37.3	30.7	26.3	22.0	19.8	15.3	11.0	6.6	4.3	2.2	2.2
85°	19.8	17.6	15.3	11.0	11.0	8.8	6.6	4.3	2.2	0.0	0.0
87.5°	11.0	8.8	6.6	4.3	4.3	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°	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2
2.5°	2311.5	2311.5	2309.2	2335.6	2304.9	2335.6	2320.2	2335.6	2313.6	2311.5	2313.6
5°	2329.0	2335.6	2337.8	2361.9	2333.5	2370.8	2357.6	2370.8	2355.4	2359.8	2366.3
7.5°	2364.1	2375.1	2373.0	2403.7	2375.1	2416.9	2408.1	2427.9	2412.5	2416.9	2425.7
10°	2403.7	2416.9	2419.0	2449.9	2423.5	2474.0	2463.0	2484.9	2471.8	2478.5	2489.5
12.5°	2449.9	2465.2	2467.5	2502.6	2474.0	2526.8	2520.1	2542.1	2531.1	2537.7	2550.9
15°	2484.9	2506.9	2511.4	2546.5	2515.8	2570.7	2566.3	2594.9	2577.2	2588.2	2599.2
17.5°	2502.6	2522.4	2531.1	2564.0	2537.7	2592.7	2588.2	2612.5	2599.2	2610.2	2623.5
20°	2491.6	2515.8	2522.4	2555.3	2529.0	2583.9	2577.2	2601.5	2588.2	2597.0	2610.2
22.5°	2452.0	2476.2	2484.9	2515.8	2491.6	2542.1	2539.9	2561.9	2544.3	2555.3	2566.3
25°	2381.7	2408.1	2412.5	2441.0	2414.7	2467.5	2463.0	2487.2	2474.0	2480.6	2495.9
27.5°	2280.7	2311.5	2318.0	2342.1	2322.5	2366.3	2366.3	2386.1	2370.8	2370.8	2386.1
30°	2159.8	2190.6	2194.9	2214.8	2197.1	2236.7	2238.9	2258.7	2234.5	2247.7	2249.9
32.5°	2012.6	2032.5	2045.6	2063.1	2036.8	2087.3	2080.7	2096.1	2082.9	2082.9	2093.9
35°	1834.7	1858.8	1865.5	1887.3	1865.5	1904.9	1904.9	1913.8	1900.6	1900.6	1918.1
37.5°	1641.3	1658.9	1661.0	1683.0	1665.5	1698.3	1696.2	1702.8	1689.6	1698.3	1698.3
40°	1414.9	1428.1	1432.6	1443.6	1441.3	1465.5	1463.3	1467.7	1461.1	1463.3	1467.7
42.5°	1151.3	1168.9	1177.7	1186.5	1173.3	1206.2	1199.7	1206.2	1204.0	1206.2	1212.9
45°	848.1	861.3	867.9	870.1	865.7	885.5	900.8	887.7	889.8	885.5	894.2
47.5°	613.0	615.2	610.8	624.0	613.0	621.9	626.2	628.3	615.2	613.0	621.9
50°	419.7	430.7	415.3	421.8	419.7	428.4	424.0	426.3	413.1	419.7	415.3
52.5°	279.0	276.8	272.4	274.7	270.3	270.3	270.3	274.7	265.8	261.4	257.1
55°	169.2	164.8	156.0	153.8	153.8	156.0	151.7	147.2	147.2	145.0	145.0
57.5°	98.9	92.2	87.9	85.7	81.2	79.1	76.9	76.9	72.6	72.6	72.6
60°	54.9	48.3	43.9	39.6	39.6	37.3	35.2	33.0	33.0	33.0	30.7
62.5°	28.6	24.2	19.8	17.6	17.6	15.3	13.2	13.2	13.2	13.2	11.0
65°	19.8	15.3	13.2	11.0	11.0	8.8	8.8	8.8	8.8	8.8	8.8
67.5°	15.3	13.2	11.0	8.8	8.8	8.8	6.6	6.6	6.6	6.6	6.6
70°	13.2	8.8	8.8	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
72.5°	8.8	8.8	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
75°	6.6	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
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: P844468

CATALOG NUMBER: LD6C40DE010B2750 EU6C40B30 6LBSWLI

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2	2298.2
2.5°	2333.5	2331.2	2333.5	2337.8	2329.0	2355.4	2342.1	2355.4
5°	2384.0	2386.1	2388.3	2394.9	2384.0	2416.9	2399.3	2419.0
7.5°	2449.9	2452.0	2454.2	2460.8	2454.2	2487.2	2467.5	2484.9
10°	2518.0	2522.4	2522.4	2533.3	2526.8	2557.5	2544.3	2566.3
12.5°	2581.7	2586.0	2590.5	2597.0	2592.7	2625.6	2614.6	2632.2
15°	2632.2	2640.9	2643.1	2651.9	2647.6	2682.8	2669.6	2687.1
17.5°	2656.4	2665.1	2665.1	2676.1	2671.8	2709.1	2691.5	2711.3
20°	2643.1	2649.8	2651.9	2663.0	2658.6	2695.9	2678.4	2702.5
22.5°	2601.5	2603.6	2605.9	2616.8	2614.6	2647.6	2632.2	2647.6
25°	2524.5	2531.1	2529.0	2537.7	2537.7	2564.0	2546.5	2559.7
27.5°	2414.7	2421.2	2421.2	2432.2	2423.5	2449.9	2432.2	2452.0
30°	2280.7	2287.2	2282.9	2291.7	2282.9	2309.2	2296.0	2302.6
32.5°	2120.2	2120.2	2122.5	2124.7	2120.2	2144.4	2131.2	2144.4
35°	1929.1	1933.5	1935.7	1937.9	1933.5	1951.0	1935.7	1944.5
37.5°	1713.8	1724.8	1722.6	1724.8	1718.2	1740.1	1726.9	1731.5
40°	1483.1	1483.1	1480.9	1485.3	1478.7	1496.3	1487.5	1491.8
42.5°	1215.0	1221.7	1212.9	1223.9	1206.2	1230.3	1221.7	1215.0
45°	911.9	903.0	900.8	903.0	896.5	898.7	905.2	900.8
47.5°	621.9	621.9	617.3	610.8	619.6	621.9	613.0	613.0
50°	417.4	417.4	413.1	410.9	415.3	413.1	408.7	415.3
52.5°	265.8	257.1	257.1	261.4	257.1	252.7	259.3	254.9
55°	145.0	140.7	140.7	145.0	140.7	140.7	138.4	142.8
57.5°	70.2	72.6	70.2	70.2	70.2	70.2	68.1	70.2
60°	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7
62.5°	13.2	13.2	11.0	11.0	11.0	11.0	11.0	11.0
65°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
67.5°	6.6	6.6	6.6	6.6	6.6	8.8	6.6	6.6
70°	6.6	6.6	6.6	6.6	6.6	6.6	6.6	6.6
72.5°	6.6	6.6	8.8	8.8	8.8	8.8	8.8	8.8
75°	4.3	4.3	4.3	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)