

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: HALO

Report Number: P640233

Luminaire Tested: LCR850RD9FSE040-50W-2700K

Issue Date: 2/13/2023

Test Information

Test Method: LM-79-2019
Report Number: P640233
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2208047D001)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: LCR850RD9FSE040-50W-2700K
Description: LCR 8
Light Source: 2700K CCT, 93 CRI LEDS
Ballast/Driver: -

Summary

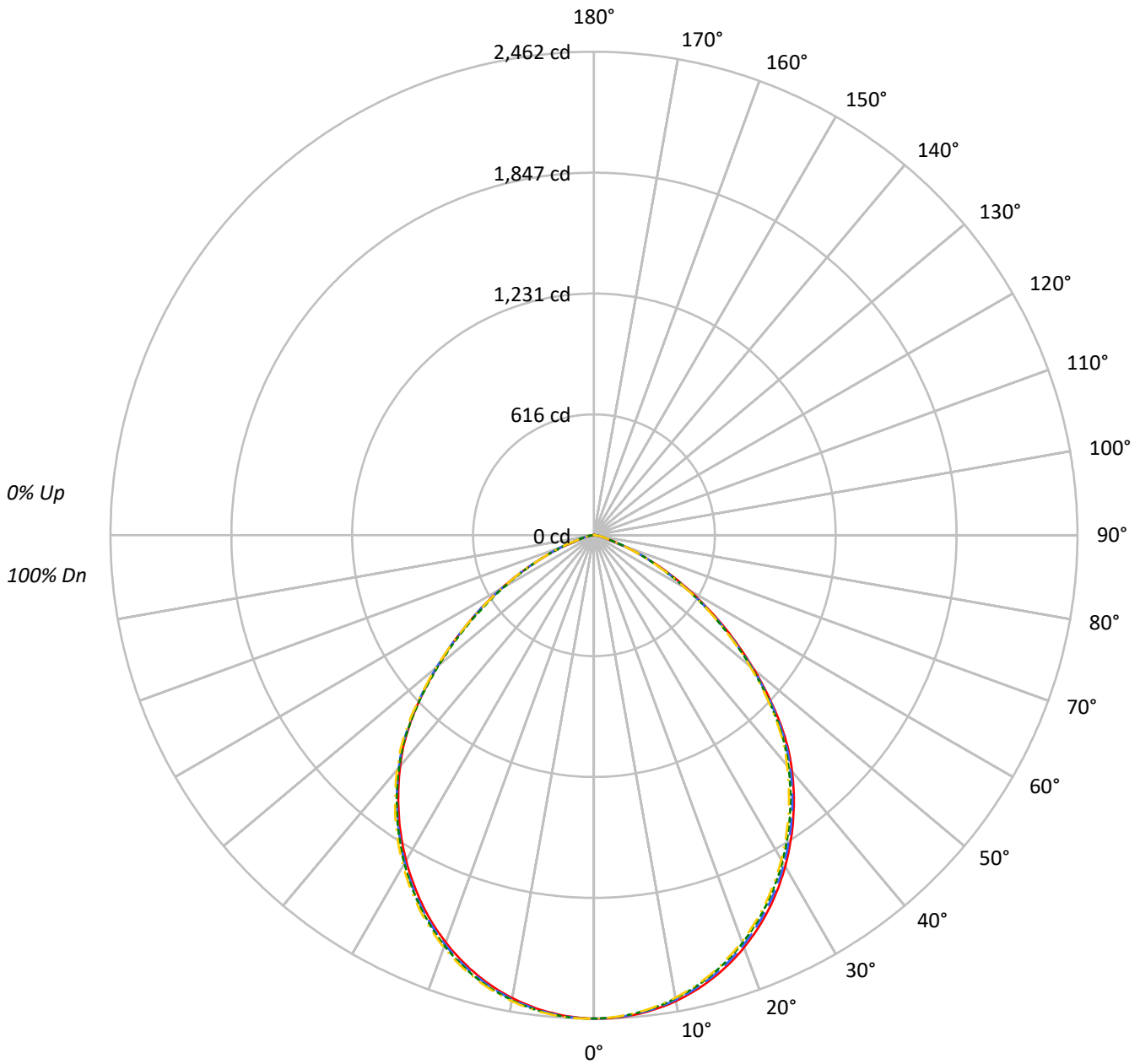
Lumens per Lamp: N/A
Luminaire Lumens: 5095.0 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.26
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 49.6
Input Voltage (V): 120
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: 24 FT



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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - · - 135°-315°



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88
2	103	96	90	85	100	94	89	84	90	86	82	87	84	81	84	81	79	77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67
4	88	77	69	64	85	76	69	63	73	67	62	71	66	61	69	64	61	59
5	81	70	62	56	79	69	61	55	67	60	55	65	59	54	63	58	54	52
6	75	63	55	49	74	62	55	49	61	54	49	59	53	48	57	52	48	46
7	70	58	50	44	68	57	49	44	56	49	44	54	48	43	53	47	43	41
8	65	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	35	34
10	58	45	38	33	56	45	38	33	44	37	33	43	37	33	42	36	32	31

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	75910	75910	75910	75910
5°	75838	75639	75590	75800
10°	75412	74983	74936	75293
15°	74575	73965	73879	74399
20°	73329	72532	72400	73024
25°	71577	70661	70481	71127
30°	69344	68329	68105	68746
35°	66581	65501	65226	65776
40°	63199	62064	61790	62112
45°	58131	57137	56875	56901
50°	51019	50055	49954	49556
55°	43063	41934	42144	41343
60°	34494	33297	33760	32748
65°	25158	24283	24334	24013
70°	15120	15381	14714	15291
75°	8006	8793	7935	8626
80°	6641	7245	6588	7281
85°	4741	6085	4706	6050

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 58131 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.0	4.6
10°-20°	654.7	12.9
20°-30°	959.3	18.8
30°-40°	1090.7	21.4
40°-50°	1007.5	19.8
50°-60°	701.8	13.8
60°-70°	337.9	6.6
70°-80°	88.6	1.7
80°-90°	18.5	0.4
90°-100°	0.2	0.0
100°-110°	0.3	0.0
110°-120°	0.4	0.0
120°-130°	0.6	0.0
130°-140°	0.7	0.0
140°-150°	0.7	0.0
150°-160°	0.6	0.0
160°-170°	0.4	0.0
170°-180°	0.1	0.0
0°-30°	1846.1	36.2
0°-40°	2936.7	57.6
0°-60°	4646.0	91.2
0°-90°	5090.9	99.9
90°-120°	1.0	0.0
90°-150°	2.9	0.1
90°-180°	4.0	0.1
0°-180°	5095.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2462	2462	2462	2462	2462	
5°	2450	2444	2442	2449	2450	233
15°	2336	2317	2314	2330	2336	658
25°	2104	2077	2072	2090	2104	968
35°	1769	1740	1733	1747	1769	1104
45°	1333	1310	1304	1305	1333	1023
55°	801	780	784	769	801	717
65°	345	333	334	329	345	346
75°	67	74	67	72	67	85
85°	13	17	13	17	13	16
90°	0	0	0	1	0	1
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	1
125°	1	1	1	1	1	1
135°	1	1	1	1	1	1
145°	1	1	1	1	1	1
155°	1	1	1	1	1	1
165°	1	2	2	1	1	0
175°	1	2	2	1	1	0
180°	2	2	2	2	2	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7
0.5°	2461.8	2461.8	2461.7	2461.4	2461.3	2461.1	2461.1	2461.0	2460.9	2461.4	2461.1
1°	2461.5	2461.9	2461.0	2460.5	2460.7	2459.9	2460.1	2460.1	2460.0	2460.6	2460.7
1.5°	2461.3	2460.9	2460.1	2459.6	2459.4	2458.5	2458.8	2458.8	2459.0	2459.7	2460.2
2°	2460.5	2460.3	2459.0	2458.3	2458.0	2457.4	2457.4	2457.4	2457.6	2458.4	2458.9
2.5°	2459.7	2459.0	2457.9	2456.8	2456.6	2455.4	2455.5	2455.6	2455.6	2456.5	2457.6
3°	2458.6	2457.7	2456.2	2455.1	2454.6	2453.1	2453.3	2453.2	2453.7	2454.6	2456.0
3.5°	2457.0	2455.7	2454.4	2452.9	2452.4	2450.9	2450.4	2450.8	2451.3	2452.6	2453.8
4°	2454.9	2453.7	2452.1	2450.6	2449.7	2448.2	2447.8	2448.2	2448.6	2450.2	2451.4
4.5°	2452.6	2451.5	2449.7	2448.0	2446.7	2445.2	2445.0	2445.2	2445.4	2447.2	2448.7
5°	2450.0	2448.6	2446.8	2445.0	2443.6	2441.7	2441.5	2441.7	2442.0	2444.3	2446.0
5.5°	2447.3	2445.7	2443.6	2441.3	2439.8	2438.2	2438.0	2438.0	2438.6	2440.9	2442.8
6°	2444.0	2442.4	2439.8	2437.5	2435.8	2434.4	2433.8	2433.8	2434.8	2437.0	2439.0
6.5°	2440.6	2438.9	2436.3	2433.5	2432.1	2430.0	2429.5	2429.4	2430.7	2433.4	2435.3
7°	2436.9	2434.8	2432.5	2428.9	2427.7	2425.6	2424.9	2424.6	2426.2	2429.1	2431.2
7.5°	2432.9	2430.9	2428.0	2424.4	2423.1	2420.3	2419.9	2419.9	2421.4	2424.2	2426.6
8°	2428.7	2426.2	2423.5	2419.7	2417.9	2415.6	2414.7	2415.0	2416.3	2419.3	2421.9
8.5°	2423.8	2421.4	2418.5	2414.2	2412.7	2410.0	2409.4	2409.6	2411.1	2413.9	2417.0
9°	2418.9	2416.5	2413.2	2408.4	2407.0	2404.3	2403.3	2403.9	2405.3	2408.5	2411.8
9.5°	2413.8	2411.0	2407.1	2402.8	2400.9	2398.5	2397.3	2397.7	2399.5	2402.6	2405.9
10°	2408.4	2405.3	2401.6	2396.6	2394.7	2392.3	2390.8	2391.7	2393.2	2396.4	2399.8
10.5°	2402.3	2399.3	2395.3	2390.5	2388.4	2385.6	2383.9	2384.9	2386.6	2390.0	2393.3
11°	2396.3	2393.2	2388.9	2383.9	2381.8	2378.7	2377.0	2378.0	2379.8	2383.2	2386.9
11.5°	2389.8	2386.3	2382.0	2377.1	2374.5	2371.5	2369.9	2370.5	2373.0	2375.9	2380.2
12°	2383.0	2379.7	2375.0	2369.9	2366.8	2363.8	2362.5	2362.8	2365.3	2368.8	2373.0
12.5°	2375.9	2372.4	2367.5	2362.1	2359.6	2356.2	2354.5	2355.3	2357.3	2361.2	2365.5
13°	2368.9	2365.0	2359.8	2354.7	2351.4	2348.0	2346.7	2347.2	2349.4	2353.4	2357.8
13.5°	2360.9	2357.2	2351.9	2346.3	2343.6	2339.4	2338.0	2338.7	2341.1	2345.3	2349.6
14°	2352.9	2349.1	2343.6	2337.5	2334.6	2330.8	2329.4	2329.8	2332.4	2336.8	2341.2
14.5°	2344.7	2340.9	2335.2	2328.8	2326.0	2322.1	2320.3	2320.7	2323.6	2327.7	2332.3
15°	2336.0	2332.4	2326.5	2319.8	2316.9	2312.6	2310.9	2311.8	2314.2	2318.5	2323.3
15.5°	2327.1	2323.7	2317.1	2310.6	2307.6	2303.1	2301.4	2301.6	2304.5	2309.4	2314.1
16°	2317.9	2314.2	2307.7	2300.8	2297.5	2293.3	2291.2	2291.3	2294.9	2299.6	2304.8
16.5°	2308.6	2304.8	2297.7	2291.1	2287.6	2283.5	2281.4	2281.7	2284.5	2289.4	2294.8
17°	2299.0	2294.6	2288.2	2281.2	2277.5	2272.8	2270.2	2271.2	2274.3	2279.4	2284.7
17.5°	2288.9	2284.7	2277.8	2270.8	2266.8	2262.3	2259.4	2260.5	2263.8	2268.7	2274.6
18°	2278.8	2274.2	2267.4	2260.2	2256.4	2251.1	2248.4	2249.4	2252.9	2258.1	2263.6
18.5°	2267.8	2263.1	2256.2	2248.7	2244.8	2239.9	2237.6	2238.1	2241.6	2247.1	2252.7
19°	2256.9	2251.9	2245.5	2237.7	2233.6	2228.5	2226.1	2226.8	2229.9	2235.7	2241.4
19.5°	2245.5	2240.8	2234.0	2226.3	2222.3	2217.1	2214.0	2214.7	2218.3	2223.7	2229.7
20°	2234.6	2229.5	2222.5	2214.4	2210.3	2204.9	2202.3	2202.6	2206.3	2212.2	2217.8
20.5°	2222.2	2217.3	2210.1	2202.0	2198.0	2192.4	2189.9	2190.2	2194.0	2199.6	2205.6
21°	2210.0	2205.4	2197.9	2189.5	2185.4	2179.9	2177.1	2177.6	2181.4	2187.3	2192.9
21.5°	2197.5	2192.9	2185.3	2176.9	2173.0	2167.1	2164.3	2164.4	2168.9	2174.7	2180.5
22°	2185.2	2180.5	2172.8	2163.9	2159.6	2154.1	2151.3	2151.3	2155.4	2161.4	2167.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	2172.2	2167.1	2159.8	2150.9	2146.3	2140.8	2137.9	2138.0	2142.3	2148.5	2154.3
23°	2159.0	2154.0	2146.7	2137.7	2133.1	2127.0	2124.0	2124.5	2128.8	2134.9	2140.7
23.5°	2145.7	2140.7	2132.9	2123.9	2119.4	2113.2	2110.2	2110.7	2114.8	2121.0	2127.0
24°	2131.9	2126.5	2119.2	2110.1	2105.3	2099.2	2096.0	2096.4	2100.3	2107.2	2113.1
24.5°	2117.8	2112.6	2104.8	2095.7	2091.3	2084.8	2081.5	2081.8	2086.3	2092.4	2098.6
25°	2103.7	2098.6	2090.7	2081.2	2076.8	2070.1	2066.7	2067.2	2071.5	2077.9	2084.3
25.5°	2089.4	2084.3	2075.8	2067.0	2062.0	2055.7	2052.1	2052.9	2056.6	2063.3	2069.2
26°	2074.5	2069.4	2061.2	2051.9	2046.8	2040.5	2036.7	2037.4	2041.3	2048.1	2054.2
26.5°	2059.2	2054.1	2046.3	2036.8	2032.0	2025.2	2021.4	2021.6	2026.0	2032.8	2038.9
27°	2044.1	2039.0	2031.4	2021.3	2016.4	2009.5	2005.7	2006.0	2010.3	2017.2	2023.5
27.5°	2028.7	2023.4	2015.4	2005.2	2000.8	1994.1	1990.1	1990.7	1994.6	2001.5	2007.9
28°	2013.0	2007.3	1999.1	1989.8	1984.7	1977.9	1973.5	1974.2	1978.4	1985.3	1991.4
28.5°	1996.6	1991.5	1983.3	1973.4	1968.8	1961.7	1957.6	1958.1	1962.4	1969.4	1975.2
29°	1980.5	1975.7	1967.3	1957.1	1952.4	1945.2	1941.0	1941.6	1946.2	1953.0	1958.9
29.5°	1964.0	1959.0	1951.1	1940.5	1935.8	1928.5	1924.4	1924.8	1929.5	1936.1	1942.2
30°	1947.5	1942.1	1934.4	1923.8	1919.0	1911.6	1907.5	1907.8	1912.7	1919.4	1925.2
30.5°	1930.2	1925.2	1917.4	1907.3	1902.0	1894.6	1890.2	1890.9	1895.4	1902.4	1907.9
31°	1913.3	1908.4	1900.2	1889.9	1884.6	1877.6	1872.8	1873.4	1878.2	1885.0	1890.7
31.5°	1895.9	1890.8	1882.6	1872.5	1867.3	1860.1	1855.5	1856.0	1860.7	1867.0	1873.2
32°	1878.8	1873.2	1865.2	1854.9	1849.9	1842.1	1837.4	1837.9	1843.0	1849.5	1855.3
32.5°	1860.8	1855.4	1847.8	1836.9	1832.3	1824.9	1819.9	1820.6	1825.4	1832.0	1837.9
33°	1842.6	1837.9	1829.3	1819.1	1814.4	1806.6	1801.3	1802.0	1807.0	1813.5	1819.3
33.5°	1824.7	1819.2	1811.1	1800.9	1796.0	1788.1	1783.0	1784.0	1788.8	1795.3	1801.0
34°	1806.6	1801.3	1793.1	1782.6	1777.4	1769.5	1764.9	1765.4	1770.3	1776.6	1782.6
34.5°	1787.6	1782.0	1774.4	1763.8	1758.7	1751.0	1746.1	1746.9	1751.5	1758.3	1763.8
35°	1768.7	1763.8	1755.5	1744.3	1740.0	1732.1	1727.3	1727.8	1732.7	1739.2	1744.8
35.5°	1749.6	1745.1	1736.9	1726.2	1720.8	1713.0	1707.9	1708.8	1713.9	1720.6	1725.5
36°	1730.6	1725.3	1717.4	1706.9	1701.6	1694.1	1688.9	1689.5	1694.5	1701.2	1706.1
36.5°	1711.1	1706.2	1698.0	1687.2	1682.5	1674.7	1669.9	1670.4	1675.3	1681.9	1687.1
37°	1691.7	1686.4	1677.7	1667.9	1662.7	1655.1	1649.7	1650.2	1655.5	1662.1	1667.0
37.5°	1672.0	1666.7	1658.5	1647.9	1642.9	1635.3	1629.9	1630.7	1635.8	1642.4	1646.6
38°	1651.5	1646.5	1638.3	1628.0	1623.1	1615.6	1610.2	1610.7	1615.8	1622.0	1627.0
38.5°	1631.4	1626.8	1618.1	1608.0	1602.9	1595.1	1590.2	1590.9	1595.8	1602.1	1607.0
39°	1611.3	1606.3	1597.8	1587.4	1582.8	1575.1	1570.0	1570.7	1575.5	1581.8	1586.2
39.5°	1590.8	1585.6	1577.7	1567.2	1562.4	1554.4	1550.1	1550.7	1555.4	1561.4	1565.8
40°	1570.0	1564.9	1556.8	1546.0	1541.8	1534.4	1529.5	1530.2	1535.0	1540.8	1544.9
40.5°	1548.9	1543.9	1536.4	1525.8	1520.9	1513.6	1509.3	1509.7	1514.4	1520.2	1524.3
41°	1527.9	1523.0	1515.2	1504.4	1500.3	1493.1	1488.6	1488.8	1493.6	1499.5	1503.2
41.5°	1506.6	1501.5	1493.8	1482.9	1479.4	1471.7	1467.5	1467.8	1472.7	1478.2	1482.0
42°	1483.8	1479.3	1471.3	1460.9	1457.0	1449.9	1446.0	1446.5	1451.1	1456.4	1460.2
42.5°	1460.8	1455.9	1448.2	1437.6	1434.2	1427.1	1423.2	1423.9	1428.4	1433.6	1437.6
43°	1435.7	1431.1	1424.2	1413.1	1410.8	1403.8	1400.0	1400.7	1404.5	1410.0	1414.0
43.5°	1410.7	1406.3	1398.8	1388.9	1385.6	1379.5	1375.8	1376.3	1379.9	1385.2	1389.0
44°	1384.7	1380.6	1373.5	1363.3	1361.0	1354.5	1351.1	1351.0	1355.3	1360.2	1363.6
44.5°	1359.8	1354.6	1348.0	1338.0	1335.6	1329.4	1326.0	1325.9	1329.9	1334.7	1338.2



TEST NUMBER: P640233

CATALOG NUMBER: LCR850RD9FSE040-50W-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	1333.0	1328.8	1322.1	1311.5	1310.2	1304.0	1300.4	1300.7	1304.2	1309.5	1313.2
45.5°	1306.8	1302.6	1295.2	1286.1	1284.1	1278.5	1274.3	1274.9	1278.4	1283.4	1286.0
46°	1280.2	1275.7	1268.9	1259.9	1257.8	1252.4	1248.3	1249.2	1252.7	1257.3	1259.8
46.5°	1253.1	1248.9	1242.3	1232.5	1231.8	1225.8	1222.2	1223.0	1226.6	1231.1	1233.6
47°	1225.9	1221.8	1215.4	1205.9	1204.9	1199.6	1195.8	1196.3	1200.4	1204.3	1207.0
47.5°	1199.0	1195.1	1188.6	1179.3	1177.9	1172.4	1168.8	1169.7	1173.4	1177.8	1179.6
48°	1172.0	1168.1	1161.0	1152.3	1151.3	1146.1	1142.3	1143.6	1147.3	1151.7	1152.5
48.5°	1145.0	1140.8	1134.1	1124.5	1124.4	1119.3	1115.8	1117.2	1120.9	1124.5	1126.2
49°	1118.2	1113.6	1107.2	1097.5	1097.3	1092.4	1089.4	1090.2	1094.5	1097.9	1100.0
49.5°	1091.2	1086.6	1080.3	1070.8	1071.1	1065.2	1062.6	1063.7	1068.2	1071.2	1072.4
50°	1063.5	1059.2	1052.8	1043.8	1043.4	1038.6	1035.6	1037.5	1041.3	1044.8	1045.7
50.5°	1036.7	1032.5	1025.3	1016.3	1016.3	1012.0	1009.4	1010.9	1015.5	1018.1	1018.3
51°	1009.9	1005.6	998.7	989.2	989.7	985.0	983.1	984.5	988.6	991.7	992.5
51.5°	983.5	978.5	972.2	962.7	963.1	958.7	956.5	958.5	962.8	965.3	965.8
52°	957.1	952.1	945.5	936.0	937.1	932.4	930.6	932.7	936.9	939.3	939.6
52.5°	930.3	925.8	918.7	909.6	909.8	906.2	903.9	906.5	910.4	913.2	912.9
53°	904.3	899.6	892.3	883.3	883.3	879.3	878.5	880.6	885.2	887.5	886.7
53.5°	878.0	873.4	866.0	856.5	857.6	853.1	852.2	855.2	859.0	861.8	860.7
54°	851.8	846.8	839.9	830.1	831.4	827.9	826.6	829.8	834.0	836.0	835.1
54.5°	826.6	821.6	813.9	805.0	805.6	802.3	800.8	804.0	808.3	810.3	809.6
55°	801.0	795.9	788.4	779.5	780.0	777.4	776.3	779.2	783.9	785.8	783.6
55.5°	775.1	770.6	762.9	753.7	754.5	751.5	751.1	754.7	758.6	760.7	758.9
56°	750.4	745.3	737.6	728.4	730.3	727.4	727.1	730.8	734.7	736.8	734.9
56.5°	725.6	720.4	712.2	703.5	706.0	703.2	703.2	706.9	710.9	712.8	710.8
57°	700.8	695.8	687.6	678.8	681.7	679.1	679.3	682.9	687.1	688.9	686.8
57.5°	676.7	671.5	663.4	654.0	657.4	655.0	655.4	659.0	663.3	665.0	662.7
58°	652.5	648.0	639.5	630.5	633.1	630.8	631.5	635.1	639.5	641.1	638.7
58.5°	628.8	623.6	615.6	606.5	609.5	607.3	607.6	611.7	616.1	617.7	614.7
59°	605.3	600.4	591.9	582.9	586.1	583.7	584.4	588.2	592.8	594.2	591.3
59.5°	582.2	577.1	569.0	559.4	563.2	560.6	561.3	565.7	569.8	571.5	568.1
60°	559.3	554.4	545.9	537.2	539.9	537.9	538.2	542.8	547.4	548.6	545.3
60.5°	536.5	531.5	523.2	514.2	517.7	515.9	516.2	520.7	524.9	526.4	522.5
61°	514.3	509.7	501.0	492.6	495.9	494.0	494.3	498.5	503.2	504.5	500.6
61.5°	492.3	487.6	479.4	470.8	474.3	472.1	472.8	477.2	481.6	482.5	478.6
62°	471.4	466.5	457.9	449.6	453.1	450.8	451.7	455.7	460.4	461.8	457.4
62.5°	449.6	444.8	436.4	428.0	431.8	430.1	430.3	435.3	439.2	440.4	436.4
63°	428.7	424.5	415.8	407.9	411.0	409.3	409.7	414.1	417.2	419.5	415.2
63.5°	407.4	403.7	395.3	387.8	390.9	389.3	389.6	394.0	395.7	399.1	395.5
64°	386.2	383.9	375.5	367.8	371.3	369.3	370.0	373.9	374.7	378.8	375.3
64.5°	364.8	363.2	356.1	348.0	352.0	350.5	350.6	354.9	353.8	358.6	355.8
65°	344.8	344.5	336.9	329.4	332.8	331.4	331.6	335.8	333.5	339.2	337.1
65.5°	326.4	323.2	318.9	311.8	314.5	313.1	313.1	316.7	313.0	319.9	318.5
66°	306.6	305.0	300.8	294.2	296.5	295.2	295.3	297.7	293.7	300.9	300.0
66.5°	286.7	286.7	282.8	276.6	279.3	277.7	277.7	279.7	275.2	282.0	282.6
67°	266.9	268.5	264.8	259.0	262.1	260.4	260.7	261.4	257.6	264.1	265.3



TEST NUMBER: P640233

CATALOG NUMBER: LCR850RD9FSE040-50W-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	247.1	250.3	246.8	241.4	245.3	244.2	243.9	244.4	240.5	246.8	248.6
68°	230.2	233.4	231.1	225.6	229.3	228.2	228.1	227.4	223.9	230.3	232.2
68.5°	213.7	217.0	215.4	210.2	214.1	213.0	212.7	211.3	207.9	214.1	216.7
69°	197.8	200.9	200.3	195.3	199.0	197.8	197.9	196.0	192.5	198.6	201.7
69.5°	182.2	185.9	185.4	181.0	184.5	183.6	183.5	181.3	177.6	183.9	187.2
70°	167.7	171.6	172.0	167.6	170.6	169.9	169.5	167.4	163.2	169.9	173.0
70.5°	153.8	157.9	158.4	154.6	157.6	156.8	156.9	154.4	150.3	156.7	160.1
71°	140.7	144.9	145.8	142.0	145.0	144.5	144.4	141.9	137.4	143.8	147.3
71.5°	128.2	132.5	133.4	130.5	133.2	132.8	132.6	130.2	125.3	132.1	135.3
72°	116.2	121.0	122.7	119.7	122.2	121.5	121.4	119.2	113.9	120.7	124.1
72.5°	104.6	110.4	112.1	109.6	111.9	111.4	111.4	109.0	103.3	110.3	113.5
73°	94.5	100.5	102.2	100.1	102.1	101.9	101.6	99.5	93.0	100.6	103.7
73.5°	85.5	91.9	93.0	91.5	93.7	93.2	93.0	92.5	86.4	91.9	94.8
74°	78.2	84.0	85.3	83.8	87.1	86.6	86.2	85.5	79.8	85.3	88.5
74.5°	72.5	76.9	78.1	76.9	80.5	80.0	79.6	78.5	73.2	78.7	82.2
75°	67.2	70.7	71.9	71.0	73.8	73.4	72.9	71.5	66.6	72.2	75.9
75.5°	63.4	65.4	66.4	66.0	67.2	66.8	66.2	64.6	62.9	65.6	69.6
76°	60.2	61.1	62.4	62.2	63.1	62.9	62.2	60.6	59.7	61.4	63.4
76.5°	57.2	57.9	59.4	59.1	60.1	59.8	59.2	57.5	56.7	58.2	60.2
77°	54.2	54.9	56.5	56.2	57.2	56.9	56.2	54.4	53.7	55.1	57.3
77.5°	51.3	52.0	53.5	53.5	54.3	54.1	53.5	51.5	50.9	52.2	54.4
78°	48.4	49.0	50.7	50.7	51.5	51.3	50.6	48.7	47.9	49.3	51.5
78.5°	45.6	46.2	47.9	47.9	48.7	48.5	47.9	45.8	45.1	46.4	48.8
79°	42.8	43.4	45.1	45.3	46.1	45.9	45.2	43.0	42.4	43.6	46.0
79.5°	40.1	40.6	42.4	42.6	43.4	43.2	42.5	40.4	39.8	40.9	43.3
80°	37.4	37.8	39.7	40.1	40.8	40.7	39.9	37.7	37.1	38.2	40.6
80.5°	34.9	35.3	37.2	37.6	38.3	38.1	37.3	35.1	34.5	35.6	38.1
81°	32.8	32.7	34.6	35.1	35.9	35.6	34.8	32.6	32.0	33.0	35.5
81.5°	30.2	30.2	32.2	32.4	33.3	33.2	32.3	30.1	29.5	30.5	33.0
82°	27.6	27.8	29.8	30.1	30.9	30.8	29.9	27.6	27.0	27.9	30.5
82.5°	25.1	25.3	27.4	27.8	28.5	28.4	27.5	25.1	24.6	25.5	28.1
83°	22.5	22.9	25.1	25.5	26.3	26.1	25.1	22.8	22.3	23.1	25.8
83.5°	20.1	20.4	22.7	23.2	23.9	23.7	22.8	20.4	20.0	20.8	23.5
84°	17.8	18.2	20.4	20.9	21.6	21.5	20.5	18.2	17.7	18.5	21.2
84.5°	15.6	15.9	18.3	18.8	19.4	19.3	18.4	16.0	15.5	16.2	19.0
85°	13.4	13.7	16.2	16.6	17.2	17.1	16.2	14.0	13.3	14.2	16.9
85.5°	11.3	12.0	14.1	14.4	15.0	14.9	14.1	12.0	11.4	12.4	14.7
86°	9.6	10.0	12.1	12.4	13.0	12.8	12.1	10.4	9.8	10.7	12.7
86.5°	7.9	8.3	10.2	10.3	11.0	10.9	10.3	8.7	8.2	9.0	10.8
87°	6.3	6.8	8.3	8.3	9.0	8.9	8.4	7.0	6.6	7.4	8.9
87.5°	5.0	5.3	6.3	6.3	7.0	6.9	6.5	5.4	5.0	5.7	6.9
88°	3.6	3.8	4.5	4.3	5.0	4.9	4.6	3.7	3.5	4.0	5.0
88.5°	2.8	2.9	2.6	3.5	3.0	2.9	2.8	2.3	2.1	2.5	3.1
89°	1.9	2.0	2.0	2.7	1.2	1.1	1.1	1.0	0.9	1.1	1.3
89.5°	1.1	1.2	1.4	1.9	0.2	0.3	0.3	0.4	0.3	0.3	0.3



TEST NUMBER: P640233
 CATALOG NUMBER: LCR850RD9FSE040-50W-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.3	0.3	0.8	1.0	0.2	0.2	0.2	0.3	0.3	0.3	0.2
90.5°	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2
91°	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2
91.5°	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2
92°	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.2
92.5°	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2
93°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
93.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
94°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
94.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
95°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
95.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
96°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
96.5°	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
97°	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
97.5°	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
98°	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
98.5°	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
99°	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2
99.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2
100°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2
100.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2
101°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2
101.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2
102°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2
102.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2
103°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2
103.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2
104°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.2
104.5°	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.2
105°	0.4	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.2
105.5°	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.2
106°	0.4	0.4	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.2
106.5°	0.4	0.4	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.2
107°	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.2
107.5°	0.4	0.4	0.4	0.4	0.3	0.2	0.3	0.3	0.3	0.3	0.3
108°	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
108.5°	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
109°	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
109.5°	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
110°	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
110.5°	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.3
111°	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.3
111.5°	0.5	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.3
112°	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.3



TEST NUMBER: P640233
 CATALOG NUMBER: LCR850RD9FSE040-50W-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.3
113°	0.5	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.3
113.5°	0.5	0.5	0.5	0.5	0.3	0.3	0.3	0.4	0.4	0.4	0.3
114°	0.5	0.5	0.5	0.5	0.4	0.3	0.4	0.4	0.4	0.4	0.4
114.5°	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4
115°	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4
115.5°	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.4	0.4
116°	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.4	0.4
116.5°	0.6	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.4	0.4
117°	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.4
117.5°	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.4
118°	0.6	0.6	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.4
118.5°	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.5	0.5	0.5	0.5
119°	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5
119.5°	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5
120°	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.5	0.5
120.5°	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.5	0.5
121°	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.5	0.5
121.5°	0.7	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.6	0.5
122°	0.7	0.7	0.6	0.6	0.5	0.5	0.5	0.6	0.6	0.6	0.5
122.5°	0.7	0.7	0.6	0.6	0.5	0.5	0.5	0.6	0.6	0.6	0.5
123°	0.7	0.7	0.6	0.6	0.5	0.5	0.6	0.6	0.6	0.6	0.6
123.5°	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.6
124°	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.7	0.6	0.6
124.5°	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.7	0.6	0.6
125°	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.7	0.6	0.6
125.5°	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.7	0.7	0.6
126°	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.7	0.7	0.6
126.5°	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.7	0.7	0.7	0.6
127°	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.7	0.7	0.7	0.7
127.5°	0.8	0.8	0.7	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.7
128°	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.8	0.7	0.7
128.5°	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.8	0.7	0.7
129°	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.8	0.8	0.7
129.5°	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.8	0.8	0.7
130°	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.8	0.8	0.7
130.5°	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.8	0.8	0.8	0.7
131°	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.8	0.8	0.8	0.7
131.5°	0.9	0.8	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.8
132°	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.8	0.8
132.5°	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.9	0.8
133°	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.9	0.8
133.5°	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.9	0.8
134°	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.9	0.9	0.8
134.5°	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.9	0.9	0.8



TEST NUMBER: P640233
 CATALOG NUMBER: LCR850RD9FSE040-50W-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.9	0.9	0.8
135.5°	0.9	0.9	0.9	0.9	0.9	0.8	0.9	0.9	1.0	0.9	0.9
136°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	0.9	0.9
136.5°	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	0.9	0.9
137°	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.9	1.0	1.0	0.9
137.5°	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.9	1.0	1.0	0.9
138°	1.0	1.0	1.0	1.0	0.9	0.9	0.9	1.0	1.0	1.0	0.9
138.5°	1.0	1.0	1.0	1.0	0.9	0.9	0.9	1.0	1.0	1.0	0.9
139°	1.0	1.0	1.0	1.0	0.9	0.9	0.9	1.0	1.0	1.0	0.9
139.5°	1.0	1.0	1.0	1.0	1.0	0.9	0.9	1.0	1.0	1.0	1.0
140°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.0	1.0
140.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.0	1.0
141°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.0	1.0
141.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.0	1.0
142°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.0	1.0
142.5°	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.0	1.0
143°	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1
143.5°	1.1	1.1	1.1	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
144°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
144.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
145°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
145.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
146°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
146.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.1
147°	1.1	1.1	1.1	1.1	1.2	1.1	1.2	1.2	1.2	1.2	1.2
147.5°	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2
148°	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2
148.5°	1.2	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2
149°	1.2	1.2	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2
149.5°	1.2	1.2	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2
150°	1.2	1.2	1.2	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2
150.5°	1.2	1.2	1.2	1.1	1.2	1.2	1.2	1.2	1.3	1.2	1.2
151°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3
151.5°	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3
152°	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3
152.5°	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3
153°	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3
153.5°	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3
154°	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3
154.5°	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.4	1.3	1.3
155°	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.4	1.4	1.4	1.4
155.5°	1.2	1.2	1.2	1.2	1.3	1.3	1.4	1.4	1.4	1.4	1.4
156°	1.2	1.2	1.2	1.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4
156.5°	1.2	1.2	1.2	1.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4
157°	1.2	1.2	1.2	1.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4



TEST NUMBER: P640233
 CATALOG NUMBER: LCR850RD9FSE040-50W-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	1.2	1.2	1.2	1.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4
158°	1.2	1.2	1.2	1.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4
158.5°	1.2	1.2	1.2	1.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4
159°	1.2	1.2	1.2	1.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4
159.5°	1.2	1.2	1.2	1.2	1.4	1.4	1.4	1.4	1.5	1.5	1.4
160°	1.3	1.3	1.2	1.2	1.4	1.4	1.4	1.5	1.5	1.5	1.5
160.5°	1.3	1.3	1.2	1.2	1.4	1.4	1.5	1.5	1.5	1.5	1.5
161°	1.3	1.3	1.2	1.2	1.4	1.5	1.5	1.5	1.5	1.5	1.5
161.5°	1.3	1.3	1.2	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
162°	1.3	1.3	1.2	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
162.5°	1.3	1.3	1.2	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
163°	1.3	1.3	1.2	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
163.5°	1.3	1.3	1.2	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
164°	1.3	1.3	1.2	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
164.5°	1.3	1.3	1.2	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
165°	1.3	1.3	1.2	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
165.5°	1.3	1.3	1.2	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
166°	1.3	1.3	1.2	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
166.5°	1.3	1.3	1.2	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
167°	1.3	1.3	1.2	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
167.5°	1.3	1.3	1.3	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
168°	1.3	1.3	1.3	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
168.5°	1.3	1.3	1.3	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
169°	1.3	1.3	1.3	1.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5
169.5°	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
170°	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
170.5°	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
171°	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
171.5°	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
172°	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
172.5°	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
173°	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
173.5°	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
174°	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
174.5°	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
175°	1.3	1.4	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5
175.5°	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5
176°	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5
176.5°	1.4	1.4	1.4	1.4	1.5	1.6	1.5	1.5	1.5	1.5	1.5
177°	1.4	1.4	1.4	1.4	1.5	1.6	1.5	1.5	1.5	1.5	1.5
177.5°	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5
178°	1.4	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5
178.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
179°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
179.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5



TEST NUMBER: P640233
CATALOG NUMBER: LCR850RD9FSE040-50W-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5

TEST NUMBER: P640233

CATALOG NUMBER: LCR850RD9FSE040-50W-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2461.7	2461.7	2461.7	2461.7	2461.7	2461.7
0.5°	2461.7	2461.8	2461.9	2462.0	2462.2	2461.8
1°	2461.7	2461.7	2461.9	2461.8	2462.1	2461.5
1.5°	2460.8	2461.1	2461.2	2461.5	2461.9	2461.3
2°	2460.0	2460.3	2460.7	2460.8	2460.7	2460.5
2.5°	2458.6	2459.3	2459.5	2460.1	2460.1	2459.7
3°	2457.4	2457.6	2458.5	2458.8	2458.8	2458.6
3.5°	2455.4	2456.0	2456.8	2457.2	2457.5	2457.0
4°	2453.0	2453.7	2455.0	2455.1	2455.8	2454.9
4.5°	2450.8	2451.5	2452.7	2453.1	2453.4	2452.6
5°	2448.1	2448.8	2450.1	2450.7	2451.2	2450.0
5.5°	2445.1	2445.9	2447.2	2448.1	2448.5	2447.3
6°	2441.6	2442.5	2444.3	2445.2	2445.2	2444.0
6.5°	2438.1	2439.1	2440.9	2441.9	2441.7	2440.6
7°	2434.1	2434.9	2437.0	2438.2	2438.2	2436.9
7.5°	2429.5	2430.8	2432.8	2434.2	2434.0	2432.9
8°	2424.8	2426.0	2428.5	2429.9	2429.9	2428.7
8.5°	2419.9	2421.0	2423.3	2424.9	2425.3	2423.8
9°	2414.7	2415.9	2418.7	2420.1	2420.6	2418.9
9.5°	2409.5	2410.4	2413.2	2415.0	2415.2	2413.8
10°	2403.7	2404.6	2407.5	2409.4	2409.9	2408.4
10.5°	2397.6	2398.6	2401.6	2404.0	2404.1	2402.3
11°	2391.0	2392.4	2395.5	2397.5	2397.7	2396.3
11.5°	2384.3	2385.7	2388.7	2390.8	2391.1	2389.8
12°	2377.2	2378.6	2381.8	2384.2	2384.4	2383.0
12.5°	2370.0	2371.3	2374.6	2377.1	2377.3	2375.9
13°	2362.0	2363.6	2367.4	2369.5	2370.2	2368.9
13.5°	2354.3	2356.2	2359.5	2361.8	2362.5	2360.9
14°	2346.2	2347.6	2351.3	2353.5	2354.7	2352.9
14.5°	2337.5	2339.1	2342.8	2345.5	2346.6	2344.7
15°	2328.6	2330.5	2333.9	2336.9	2337.9	2336.0
15.5°	2319.6	2321.2	2324.5	2328.0	2328.9	2327.1
16°	2310.1	2311.8	2315.5	2318.6	2319.8	2317.9
16.5°	2300.4	2302.0	2305.9	2309.3	2310.7	2308.6
17°	2290.3	2291.9	2295.7	2299.6	2300.9	2299.0
17.5°	2280.2	2281.2	2285.7	2289.5	2290.6	2288.9
18°	2269.1	2270.8	2275.1	2278.4	2280.1	2278.8
18.5°	2258.6	2259.7	2264.3	2267.6	2269.6	2267.8
19°	2247.1	2248.6	2253.3	2257.0	2258.7	2256.9
19.5°	2235.6	2237.1	2241.3	2245.3	2247.5	2245.5
20°	2223.9	2225.3	2229.8	2233.9	2235.9	2234.6
20.5°	2211.6	2213.0	2217.7	2222.0	2224.0	2222.2
21°	2198.9	2200.4	2205.3	2209.7	2212.1	2210.0
21.5°	2186.4	2188.0	2192.4	2197.3	2199.4	2197.5
22°	2173.5	2174.7	2179.5	2184.5	2186.8	2185.2

TEST NUMBER: P640233

CATALOG NUMBER: LCR850RD9FSE040-50W-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	2160.5	2161.5	2166.4	2171.4	2173.9	2172.2
23°	2146.9	2147.7	2153.2	2158.0	2160.9	2159.0
23.5°	2133.4	2133.8	2139.1	2144.2	2147.4	2145.7
24°	2119.4	2119.8	2125.5	2130.4	2133.6	2131.9
24.5°	2104.9	2105.5	2110.7	2115.9	2119.1	2117.8
25°	2090.1	2090.5	2096.2	2102.0	2105.1	2103.7
25.5°	2075.5	2075.6	2081.3	2087.3	2090.5	2089.4
26°	2060.5	2060.8	2066.5	2072.4	2075.8	2074.5
26.5°	2045.1	2045.4	2050.7	2056.7	2060.6	2059.2
27°	2029.2	2029.5	2035.3	2041.8	2045.1	2044.1
27.5°	2013.4	2013.7	2019.3	2025.9	2029.4	2028.7
28°	1997.6	1997.3	2003.1	2009.8	2013.9	2013.0
28.5°	1981.1	1980.8	1986.5	1993.7	1998.0	1996.6
29°	1964.7	1964.2	1970.1	1977.3	1981.8	1980.5
29.5°	1947.8	1947.4	1953.0	1960.4	1965.1	1964.0
30°	1931.1	1930.7	1936.0	1943.5	1948.5	1947.5
30.5°	1913.9	1913.1	1918.6	1926.5	1931.4	1930.2
31°	1896.7	1895.3	1900.9	1908.7	1914.1	1913.3
31.5°	1878.8	1877.6	1883.1	1891.0	1896.8	1895.9
32°	1860.8	1860.0	1865.2	1873.4	1879.0	1878.8
32.5°	1843.0	1841.4	1846.9	1855.8	1861.3	1860.8
33°	1824.8	1823.0	1828.6	1837.3	1843.3	1842.6
33.5°	1806.3	1804.4	1810.1	1818.5	1825.1	1824.7
34°	1787.4	1785.7	1791.5	1800.1	1806.6	1806.6
34.5°	1768.9	1766.2	1771.9	1781.0	1787.3	1787.6
35°	1749.6	1747.3	1752.4	1761.8	1768.5	1768.7
35.5°	1730.4	1727.7	1733.3	1742.8	1749.6	1749.6
36°	1711.2	1707.9	1713.7	1722.9	1730.4	1730.6
36.5°	1691.3	1688.0	1693.9	1703.2	1710.4	1711.1
37°	1670.8	1668.1	1673.4	1683.2	1690.6	1691.7
37.5°	1651.2	1647.3	1653.1	1663.4	1670.9	1672.0
38°	1630.7	1626.8	1632.7	1643.0	1650.8	1651.5
38.5°	1610.5	1606.2	1612.2	1622.1	1630.3	1631.4
39°	1590.1	1585.6	1591.2	1602.0	1610.1	1611.3
39.5°	1569.4	1564.7	1570.2	1580.8	1589.5	1590.8
40°	1548.5	1543.0	1548.8	1559.9	1568.8	1570.0
40.5°	1527.8	1521.9	1527.7	1538.6	1547.5	1548.9
41°	1506.1	1500.7	1505.9	1517.0	1526.7	1527.9
41.5°	1484.7	1478.4	1484.2	1495.6	1505.7	1506.6
42°	1462.6	1456.8	1462.0	1473.3	1482.9	1483.8
42.5°	1439.4	1432.9	1438.7	1450.2	1459.5	1460.8
43°	1415.6	1408.4	1413.7	1425.7	1434.5	1435.7
43.5°	1390.9	1382.7	1388.8	1400.3	1409.8	1410.7
44°	1365.1	1357.5	1362.9	1374.8	1383.9	1384.7
44.5°	1339.6	1331.7	1336.9	1349.0	1358.4	1359.8

TEST NUMBER: P640233

CATALOG NUMBER: LCR850RD9FSE040-50W-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	1313.7	1304.8	1310.3	1322.3	1331.5	1333.0
45.5°	1287.6	1278.1	1284.0	1295.8	1305.6	1306.8
46°	1261.2	1251.7	1256.6	1269.0	1278.6	1280.2
46.5°	1234.1	1224.6	1229.9	1242.0	1252.2	1253.1
47°	1207.1	1197.6	1201.9	1214.0	1224.8	1225.9
47.5°	1179.7	1169.2	1174.5	1187.4	1197.6	1199.0
48°	1152.8	1142.6	1146.8	1159.7	1170.2	1172.0
48.5°	1126.1	1115.0	1119.7	1132.2	1143.8	1145.0
49°	1098.8	1087.5	1092.4	1105.1	1116.6	1118.2
49.5°	1071.4	1061.2	1064.9	1078.1	1089.3	1091.2
50°	1044.0	1033.0	1036.5	1049.7	1061.3	1063.5
50.5°	1017.0	1005.8	1009.8	1022.5	1034.7	1036.7
51°	990.3	978.2	982.7	995.5	1008.1	1009.9
51.5°	963.0	951.9	955.7	968.6	981.3	983.5
52°	936.6	924.8	929.0	941.5	954.3	957.1
52.5°	910.2	898.6	902.6	915.4	928.0	930.3
53°	883.5	871.8	876.1	888.2	901.6	904.3
53.5°	857.0	845.6	849.8	861.9	875.2	878.0
54°	831.1	818.9	823.7	835.5	848.5	851.8
54.5°	805.3	794.3	798.1	810.2	823.0	826.6
55°	780.1	769.0	772.7	784.2	797.0	801.0
55.5°	754.9	743.1	747.5	758.7	772.2	775.1
56°	730.7	718.2	722.6	733.9	746.1	750.4
56.5°	706.5	694.0	698.1	709.0	721.6	725.6
57°	682.3	669.8	673.4	684.6	696.0	700.8
57.5°	658.1	646.0	649.3	659.8	672.4	676.7
58°	633.9	622.2	625.9	636.0	648.5	652.5
58.5°	610.2	598.9	602.7	612.4	624.8	628.8
59°	586.9	576.0	579.1	588.9	600.6	605.3
59.5°	564.0	553.6	556.7	566.2	577.4	582.2
60°	541.7	531.0	534.5	543.3	554.5	559.3
60.5°	519.0	509.2	512.4	520.9	532.0	536.5
61°	497.0	487.7	491.0	499.0	509.3	514.3
61.5°	475.5	466.7	469.5	477.7	487.7	492.3
62°	455.0	446.4	448.8	456.7	466.2	471.4
62.5°	433.9	425.4	428.3	435.5	444.6	449.6
63°	413.6	405.5	408.3	415.0	424.3	428.7
63.5°	393.3	385.9	388.6	395.1	403.8	407.4
64°	374.1	366.8	368.9	375.6	383.4	386.2
64.5°	354.6	348.2	350.3	356.1	363.7	364.8
65°	336.0	329.1	332.5	337.7	344.8	344.8
65.5°	317.8	311.6	315.0	320.0	323.9	326.4
66°	299.8	294.1	297.5	302.3	306.1	306.6
66.5°	282.1	276.6	280.1	284.7	288.3	286.7
67°	265.3	259.1	262.6	267.0	270.5	266.9



TEST NUMBER: P640233
 CATALOG NUMBER: LCR850RD9FSE040-50W-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	248.9	243.0	245.2	249.3	252.7	247.1
68°	232.9	227.3	229.2	233.3	236.2	230.2
68.5°	217.4	211.9	214.1	217.6	219.8	213.7
69°	202.3	197.4	199.3	202.9	203.6	197.8
69.5°	187.9	183.2	185.0	188.2	188.4	182.2
70°	174.0	169.6	171.6	174.9	174.2	167.7
70.5°	161.0	156.5	158.3	161.4	160.5	153.8
71°	148.4	144.1	146.2	148.7	147.4	140.7
71.5°	136.2	132.3	134.3	136.7	135.6	128.2
72°	125.0	121.4	123.2	125.6	124.0	116.2
72.5°	114.6	111.1	112.9	115.1	113.3	104.6
73°	104.8	101.5	103.3	105.1	103.3	94.5
73.5°	95.9	92.8	94.3	95.9	94.1	85.5
74°	89.6	85.2	86.3	87.8	85.9	78.2
74.5°	83.3	78.3	79.1	80.3	78.4	72.5
75°	77.0	72.4	72.9	73.8	71.9	67.2
75.5°	70.6	67.3	67.8	68.1	66.3	63.4
76°	64.3	63.4	63.6	63.6	61.7	60.2
76.5°	61.2	60.4	60.6	60.5	58.4	57.2
77°	58.2	57.5	57.7	57.6	55.5	54.2
77.5°	55.4	54.7	54.8	54.7	52.5	51.3
78°	52.5	51.8	52.1	51.8	49.6	48.4
78.5°	49.7	49.0	49.3	49.0	46.8	45.6
79°	47.0	46.3	46.6	46.3	44.0	42.8
79.5°	44.5	43.7	43.9	43.6	41.2	40.1
80°	41.8	41.0	41.2	40.8	38.5	37.4
80.5°	39.2	38.5	38.7	38.3	35.9	34.9
81°	36.6	35.9	36.1	35.7	33.3	32.8
81.5°	34.2	33.4	33.6	33.1	30.9	30.2
82°	31.7	31.1	31.2	30.7	28.4	27.6
82.5°	29.3	28.7	28.9	28.3	25.9	25.1
83°	26.9	26.4	26.5	25.9	23.4	22.5
83.5°	24.6	24.0	24.1	23.5	20.9	20.1
84°	22.3	21.7	21.7	21.1	18.6	17.8
84.5°	20.0	19.4	19.5	18.9	16.3	15.6
85°	17.8	17.1	17.3	16.7	14.3	13.4
85.5°	15.7	15.0	15.1	14.6	12.3	11.3
86°	13.5	12.9	12.9	12.6	10.4	9.6
86.5°	11.5	10.8	10.8	10.6	8.6	7.9
87°	9.5	8.7	8.8	8.6	7.0	6.3
87.5°	7.4	6.7	6.8	6.7	5.5	5.0
88°	5.4	4.7	4.8	4.8	4.0	3.6
88.5°	3.4	2.8	2.9	3.0	3.3	2.8
89°	1.5	2.1	2.2	2.3	2.5	1.9
89.5°	0.3	1.4	1.6	1.6	1.8	1.1



TEST NUMBER: P640233

CATALOG NUMBER: LCR850RD9FSE040-50W-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.2	0.8	0.9	0.9	1.1	0.3
90.5°	0.2	0.2	0.2	0.2	0.3	0.2
91°	0.2	0.2	0.2	0.2	0.3	0.2
91.5°	0.2	0.2	0.2	0.2	0.3	0.2
92°	0.2	0.2	0.2	0.2	0.3	0.2
92.5°	0.2	0.2	0.2	0.2	0.3	0.2
93°	0.2	0.2	0.2	0.2	0.2	0.2
93.5°	0.2	0.2	0.2	0.2	0.2	0.2
94°	0.2	0.2	0.2	0.2	0.2	0.2
94.5°	0.2	0.2	0.2	0.2	0.2	0.2
95°	0.2	0.2	0.2	0.2	0.2	0.2
95.5°	0.2	0.2	0.2	0.2	0.2	0.2
96°	0.2	0.2	0.2	0.2	0.2	0.2
96.5°	0.2	0.2	0.2	0.2	0.2	0.3
97°	0.2	0.2	0.2	0.2	0.2	0.3
97.5°	0.2	0.2	0.2	0.2	0.2	0.3
98°	0.2	0.2	0.2	0.2	0.2	0.3
98.5°	0.2	0.3	0.2	0.2	0.2	0.3
99°	0.2	0.3	0.3	0.2	0.3	0.3
99.5°	0.2	0.3	0.3	0.3	0.3	0.3
100°	0.2	0.3	0.3	0.3	0.3	0.3
100.5°	0.2	0.3	0.3	0.3	0.3	0.3
101°	0.2	0.3	0.3	0.3	0.3	0.3
101.5°	0.2	0.3	0.3	0.3	0.3	0.3
102°	0.2	0.3	0.3	0.3	0.3	0.3
102.5°	0.2	0.3	0.3	0.3	0.3	0.3
103°	0.2	0.3	0.3	0.3	0.3	0.3
103.5°	0.2	0.3	0.3	0.3	0.3	0.3
104°	0.2	0.3	0.3	0.3	0.3	0.3
104.5°	0.2	0.3	0.3	0.3	0.3	0.4
105°	0.2	0.3	0.3	0.3	0.3	0.4
105.5°	0.2	0.3	0.3	0.3	0.3	0.4
106°	0.2	0.3	0.3	0.3	0.3	0.4
106.5°	0.2	0.3	0.3	0.3	0.3	0.4
107°	0.2	0.4	0.3	0.3	0.4	0.4
107.5°	0.2	0.4	0.4	0.4	0.4	0.4
108°	0.3	0.4	0.4	0.4	0.4	0.4
108.5°	0.3	0.4	0.4	0.4	0.4	0.4
109°	0.3	0.4	0.4	0.4	0.4	0.4
109.5°	0.3	0.4	0.4	0.4	0.4	0.4
110°	0.3	0.4	0.4	0.4	0.4	0.4
110.5°	0.3	0.4	0.4	0.4	0.4	0.5
111°	0.3	0.4	0.4	0.4	0.4	0.5
111.5°	0.3	0.4	0.4	0.4	0.4	0.5
112°	0.3	0.4	0.4	0.4	0.4	0.5



TEST NUMBER: P640233
 CATALOG NUMBER: LCR850RD9FSE040-50W-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.3	0.4	0.4	0.4	0.4	0.5
113°	0.3	0.4	0.4	0.4	0.5	0.5
113.5°	0.3	0.5	0.4	0.5	0.5	0.5
114°	0.3	0.5	0.5	0.5	0.5	0.5
114.5°	0.4	0.5	0.5	0.5	0.5	0.5
115°	0.4	0.5	0.5	0.5	0.5	0.5
115.5°	0.4	0.5	0.5	0.5	0.5	0.5
116°	0.4	0.5	0.5	0.5	0.5	0.6
116.5°	0.4	0.5	0.5	0.5	0.5	0.6
117°	0.4	0.5	0.5	0.5	0.5	0.6
117.5°	0.4	0.5	0.5	0.5	0.5	0.6
118°	0.4	0.5	0.5	0.5	0.5	0.6
118.5°	0.4	0.6	0.5	0.5	0.6	0.6
119°	0.4	0.6	0.6	0.6	0.6	0.6
119.5°	0.5	0.6	0.6	0.6	0.6	0.6
120°	0.5	0.6	0.6	0.6	0.6	0.6
120.5°	0.5	0.6	0.6	0.6	0.6	0.6
121°	0.5	0.6	0.6	0.6	0.6	0.7
121.5°	0.5	0.6	0.6	0.6	0.6	0.7
122°	0.5	0.6	0.6	0.6	0.6	0.7
122.5°	0.5	0.6	0.6	0.6	0.6	0.7
123°	0.5	0.6	0.6	0.6	0.7	0.7
123.5°	0.6	0.7	0.6	0.6	0.7	0.7
124°	0.6	0.7	0.7	0.7	0.7	0.7
124.5°	0.6	0.7	0.7	0.7	0.7	0.7
125°	0.6	0.7	0.7	0.7	0.7	0.7
125.5°	0.6	0.7	0.7	0.7	0.7	0.8
126°	0.6	0.7	0.7	0.7	0.7	0.8
126.5°	0.6	0.7	0.7	0.7	0.7	0.8
127°	0.6	0.7	0.7	0.7	0.7	0.8
127.5°	0.6	0.7	0.7	0.7	0.8	0.8
128°	0.7	0.8	0.7	0.7	0.8	0.8
128.5°	0.7	0.8	0.8	0.8	0.8	0.8
129°	0.7	0.8	0.8	0.8	0.8	0.8
129.5°	0.7	0.8	0.8	0.8	0.8	0.8
130°	0.7	0.8	0.8	0.8	0.8	0.8
130.5°	0.7	0.8	0.8	0.8	0.8	0.8
131°	0.7	0.8	0.8	0.8	0.8	0.8
131.5°	0.7	0.8	0.8	0.8	0.8	0.9
132°	0.8	0.9	0.8	0.8	0.9	0.9
132.5°	0.8	0.9	0.8	0.9	0.9	0.9
133°	0.8	0.9	0.9	0.9	0.9	0.9
133.5°	0.8	0.9	0.9	0.9	0.9	0.9
134°	0.8	0.9	0.9	0.9	0.9	0.9
134.5°	0.8	0.9	0.9	0.9	0.9	0.9



TEST NUMBER: P640233
 CATALOG NUMBER: LCR850RD9FSE040-50W-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.8	0.9	0.9	0.9	0.9	0.9
135.5°	0.8	0.9	0.9	0.9	0.9	0.9
136°	0.9	0.9	0.9	0.9	0.9	0.9
136.5°	0.9	0.9	0.9	0.9	0.9	1.0
137°	0.9	1.0	0.9	0.9	0.9	1.0
137.5°	0.9	1.0	1.0	1.0	1.0	1.0
138°	0.9	1.0	1.0	1.0	1.0	1.0
138.5°	0.9	1.0	1.0	1.0	1.0	1.0
139°	0.9	1.0	1.0	1.0	1.0	1.0
139.5°	0.9	1.0	1.0	1.0	1.0	1.0
140°	1.0	1.0	1.0	1.0	1.0	1.0
140.5°	1.0	1.0	1.0	1.0	1.0	1.0
141°	1.0	1.0	1.0	1.0	1.0	1.0
141.5°	1.0	1.0	1.0	1.0	1.0	1.0
142°	1.0	1.0	1.0	1.0	1.0	1.0
142.5°	1.0	1.0	1.0	1.0	1.0	1.1
143°	1.0	1.0	1.0	1.0	1.0	1.1
143.5°	1.1	1.1	1.0	1.0	1.1	1.1
144°	1.1	1.1	1.1	1.1	1.1	1.1
144.5°	1.1	1.1	1.1	1.1	1.1	1.1
145°	1.1	1.1	1.1	1.1	1.1	1.1
145.5°	1.1	1.1	1.1	1.1	1.1	1.1
146°	1.1	1.1	1.1	1.1	1.1	1.1
146.5°	1.1	1.1	1.1	1.1	1.1	1.1
147°	1.2	1.1	1.1	1.1	1.1	1.1
147.5°	1.2	1.1	1.1	1.1	1.1	1.1
148°	1.2	1.1	1.1	1.1	1.1	1.1
148.5°	1.2	1.1	1.1	1.1	1.1	1.2
149°	1.2	1.1	1.1	1.1	1.1	1.2
149.5°	1.2	1.1	1.1	1.1	1.2	1.2
150°	1.2	1.1	1.1	1.1	1.2	1.2
150.5°	1.2	1.1	1.1	1.2	1.2	1.2
151°	1.2	1.2	1.1	1.2	1.2	1.2
151.5°	1.3	1.2	1.2	1.2	1.2	1.2
152°	1.3	1.2	1.2	1.2	1.2	1.2
152.5°	1.3	1.2	1.2	1.2	1.2	1.2
153°	1.3	1.2	1.2	1.2	1.2	1.2
153.5°	1.3	1.2	1.2	1.2	1.2	1.2
154°	1.3	1.2	1.2	1.2	1.2	1.2
154.5°	1.3	1.2	1.2	1.2	1.2	1.2
155°	1.3	1.2	1.2	1.2	1.2	1.2
155.5°	1.4	1.2	1.2	1.2	1.2	1.2
156°	1.4	1.2	1.2	1.2	1.2	1.2
156.5°	1.4	1.2	1.2	1.2	1.2	1.2
157°	1.4	1.2	1.2	1.2	1.2	1.2



TEST NUMBER: P640233
 CATALOG NUMBER: LCR850RD9FSE040-50W-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	1.4	1.2	1.2	1.2	1.2	1.2
158°	1.4	1.2	1.2	1.2	1.2	1.2
158.5°	1.4	1.2	1.2	1.2	1.2	1.2
159°	1.4	1.2	1.2	1.2	1.2	1.2
159.5°	1.4	1.2	1.2	1.2	1.2	1.2
160°	1.4	1.2	1.2	1.2	1.2	1.3
160.5°	1.5	1.2	1.2	1.2	1.3	1.3
161°	1.5	1.2	1.2	1.2	1.3	1.3
161.5°	1.5	1.2	1.2	1.2	1.3	1.3
162°	1.5	1.2	1.2	1.2	1.3	1.3
162.5°	1.5	1.2	1.2	1.2	1.3	1.3
163°	1.5	1.2	1.2	1.2	1.3	1.3
163.5°	1.5	1.2	1.2	1.2	1.3	1.3
164°	1.5	1.2	1.2	1.2	1.3	1.3
164.5°	1.5	1.2	1.2	1.2	1.3	1.3
165°	1.5	1.2	1.2	1.2	1.3	1.3
165.5°	1.5	1.2	1.2	1.3	1.3	1.3
166°	1.5	1.2	1.2	1.3	1.3	1.3
166.5°	1.5	1.2	1.2	1.3	1.3	1.3
167°	1.5	1.2	1.2	1.3	1.3	1.3
167.5°	1.5	1.2	1.2	1.3	1.3	1.3
168°	1.5	1.2	1.2	1.3	1.3	1.3
168.5°	1.5	1.2	1.2	1.3	1.3	1.3
169°	1.5	1.2	1.3	1.3	1.3	1.3
169.5°	1.5	1.2	1.3	1.3	1.3	1.3
170°	1.5	1.2	1.3	1.3	1.3	1.3
170.5°	1.5	1.3	1.3	1.3	1.3	1.3
171°	1.5	1.3	1.3	1.3	1.3	1.3
171.5°	1.5	1.3	1.3	1.3	1.3	1.3
172°	1.5	1.3	1.3	1.3	1.3	1.3
172.5°	1.5	1.3	1.3	1.3	1.3	1.3
173°	1.5	1.3	1.3	1.3	1.3	1.3
173.5°	1.5	1.3	1.3	1.3	1.3	1.3
174°	1.5	1.3	1.3	1.3	1.3	1.3
174.5°	1.5	1.3	1.3	1.3	1.3	1.3
175°	1.5	1.3	1.3	1.3	1.4	1.3
175.5°	1.5	1.4	1.4	1.4	1.4	1.4
176°	1.5	1.4	1.4	1.4	1.4	1.4
176.5°	1.5	1.4	1.4	1.4	1.4	1.4
177°	1.5	1.4	1.4	1.4	1.4	1.4
177.5°	1.5	1.4	1.4	1.4	1.4	1.4
178°	1.5	1.5	1.5	1.5	1.4	1.4
178.5°	1.5	1.5	1.5	1.5	1.5	1.5
179°	1.5	1.5	1.5	1.5	1.5	1.5
179.5°	1.5	1.5	1.5	1.5	1.5	1.5



TEST NUMBER: P640233
CATALOG NUMBER: LCR850RD9FSE040-50W-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	1.5	1.5	1.5	1.5	1.5	1.5

(END OF REPORT)