

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: P640228

Luminaire Tested: LCR850RD9FSE010-50W-3000K

Issue Date: 2/13/2023

Test Information

Test Method: LM-79-2019
Report Number: P640228
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: LCR850RD9FSE010-50W-3000K
Description: LCR 8
Light Source: 3000K CCT, 93 CRI LEDS
Ballast/Driver: -

Summary

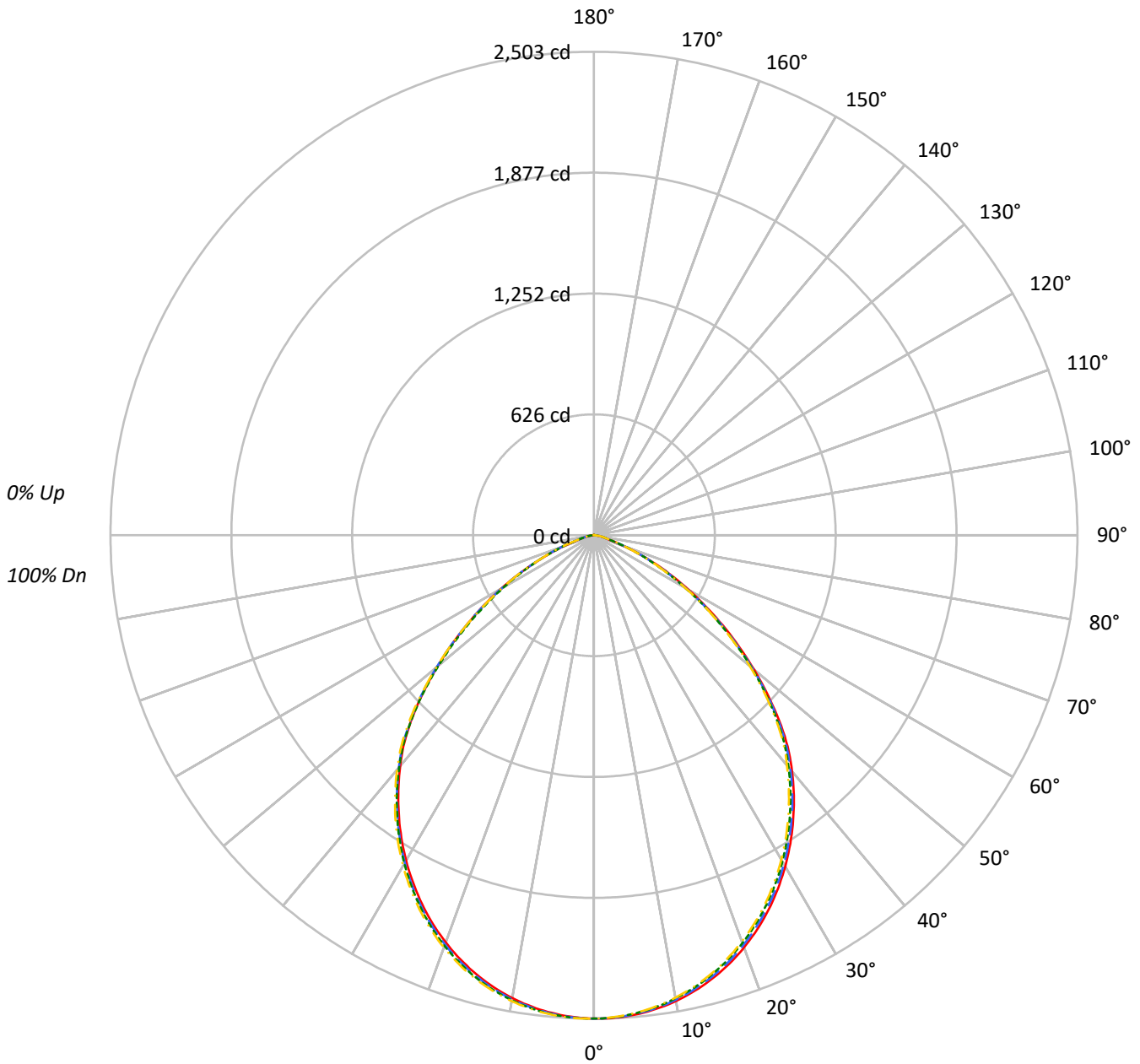
Lumens per Lamp: N/A
Luminaire Lumens: 5180.0 lumens
Efficiency: N/A
Efficacy: 103.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.26
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 49.9
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



TEST NUMBER: P640228
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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°	77174	77174	77174	77174
5°	77104	76902	76853	77066
10°	76671	76235	76188	76548
15°	75820	75197	75111	75638
20°	74553	73743	73608	74241
25°	72771	71839	71658	72315
30°	70501	69469	69241	69892
35°	67692	66593	66314	66871
40°	64253	63098	62820	63146
45°	59103	58092	57821	57848
50°	51873	50890	50784	50381
55°	43783	42633	42848	42031
60°	35067	33852	34321	33291
65°	25574	24691	24735	24414
70°	15372	15634	14966	15552
75°	8137	8948	8066	8769
80°	6748	7370	6695	7405
85°	4812	6192	4776	6156

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 59103 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.9	4.6
10°-20°	665.6	12.9
20°-30°	975.3	18.8
30°-40°	1108.8	21.4
40°-50°	1024.3	19.8
50°-60°	713.5	13.8
60°-70°	343.5	6.6
70°-80°	90.0	1.7
80°-90°	18.8	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°	1876.9	36.2
0°-40°	2985.7	57.6
0°-60°	4723.5	91.2
0°-90°	5175.9	99.9
90°-120°	1.0	0.0
90°-150°	3.0	0.1
90°-180°	4.0	0.1
0°-180°	5180.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2503	2503	2503	2503	2503	
5°	2491	2484	2483	2490	2491	236
15°	2375	2356	2353	2369	2375	669
25°	2139	2111	2106	2125	2139	984
35°	1798	1769	1762	1776	1798	1123
45°	1355	1332	1326	1326	1355	1040
55°	814	793	797	782	814	729
65°	350	338	339	335	350	351
75°	68	75	68	74	68	86
85°	14	18	14	17	14	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°	2502.7	2502.7	2502.7	2502.7	2502.7	2502.7	2502.7	2502.7	2502.7	2502.7	2502.7
0.5°	2502.8	2502.8	2502.7	2502.4	2502.3	2502.1	2502.1	2502.1	2502.0	2502.4	2502.1
1°	2502.5	2502.9	2502.1	2501.6	2501.8	2501.0	2501.2	2501.2	2501.1	2501.7	2501.8
1.5°	2502.3	2502.0	2501.2	2500.7	2500.5	2499.5	2499.8	2499.8	2500.1	2500.8	2501.3
2°	2501.6	2501.4	2500.0	2499.3	2499.0	2498.4	2498.4	2498.4	2498.6	2499.4	2499.9
2.5°	2500.8	2500.1	2498.9	2497.8	2497.6	2496.3	2496.4	2496.5	2496.5	2497.5	2498.6
3°	2499.6	2498.7	2497.2	2496.0	2495.5	2494.0	2494.2	2494.1	2494.6	2495.5	2497.0
3.5°	2498.0	2496.7	2495.3	2493.8	2493.4	2491.8	2491.3	2491.7	2492.2	2493.6	2494.7
4°	2495.8	2494.6	2493.0	2491.5	2490.6	2489.0	2488.6	2489.0	2489.5	2491.1	2492.3
4.5°	2493.6	2492.4	2490.6	2488.8	2487.5	2486.0	2485.7	2485.9	2486.2	2488.0	2489.6
5°	2490.9	2489.5	2487.6	2485.7	2484.4	2482.5	2482.2	2482.5	2482.8	2485.1	2486.8
5.5°	2488.1	2486.5	2484.4	2482.0	2480.5	2478.8	2478.6	2478.6	2479.3	2481.6	2483.6
6°	2484.8	2483.2	2480.5	2478.1	2476.5	2475.0	2474.4	2474.4	2475.4	2477.6	2479.7
6.5°	2481.3	2479.6	2477.0	2474.1	2472.7	2470.5	2470.0	2469.9	2471.2	2474.0	2476.0
7°	2477.5	2475.4	2473.1	2469.4	2468.2	2466.1	2465.4	2465.1	2466.7	2469.6	2471.7
7.5°	2473.5	2471.4	2468.6	2464.8	2463.5	2460.6	2460.3	2460.3	2461.8	2464.6	2467.1
8°	2469.2	2466.7	2463.9	2460.1	2458.3	2455.9	2455.0	2455.3	2456.6	2459.7	2462.3
8.5°	2464.2	2461.8	2458.9	2454.5	2452.9	2450.2	2449.6	2449.8	2451.4	2454.1	2457.3
9°	2459.3	2456.8	2453.4	2448.6	2447.2	2444.4	2443.4	2444.0	2445.4	2448.7	2452.0
9.5°	2454.0	2451.3	2447.3	2442.9	2441.0	2438.5	2437.3	2437.7	2439.5	2442.7	2446.0
10°	2448.6	2445.4	2441.7	2436.6	2434.7	2432.2	2430.7	2431.6	2433.2	2436.3	2439.8
10.5°	2442.4	2439.3	2435.2	2430.4	2428.2	2425.4	2423.7	2424.7	2426.5	2429.9	2433.3
11°	2436.2	2433.1	2428.7	2423.7	2421.5	2418.4	2416.7	2417.7	2419.5	2423.0	2426.8
11.5°	2429.7	2426.2	2421.7	2416.8	2414.1	2411.0	2409.5	2410.1	2412.6	2415.6	2419.9
12°	2422.8	2419.4	2414.6	2409.5	2406.3	2403.2	2401.9	2402.2	2404.7	2408.3	2412.6
12.5°	2415.6	2412.0	2407.0	2401.6	2399.0	2395.5	2393.7	2394.6	2396.6	2400.6	2405.0
13°	2408.4	2404.4	2399.2	2393.9	2390.6	2387.1	2385.8	2386.3	2388.6	2392.7	2397.1
13.5°	2400.3	2396.5	2391.2	2385.4	2382.7	2378.4	2377.0	2377.7	2380.1	2384.5	2388.8
14°	2392.2	2388.3	2382.7	2376.5	2373.6	2369.6	2368.3	2368.6	2371.3	2375.8	2380.2
14.5°	2383.8	2379.9	2374.2	2367.7	2364.8	2360.8	2359.0	2359.5	2362.3	2366.6	2371.2
15°	2375.0	2371.3	2365.3	2358.5	2355.5	2351.2	2349.5	2350.4	2352.8	2357.2	2362.0
15.5°	2365.9	2362.4	2355.8	2349.2	2346.1	2341.5	2339.8	2340.0	2343.0	2347.9	2352.7
16°	2356.6	2352.8	2346.2	2339.2	2335.8	2331.6	2329.4	2329.5	2333.2	2337.9	2343.3
16.5°	2347.1	2343.3	2336.0	2329.3	2325.8	2321.6	2319.4	2319.7	2322.6	2327.6	2333.1
17°	2337.3	2332.9	2326.4	2319.2	2315.5	2310.7	2308.1	2309.1	2312.2	2317.5	2322.8
17.5°	2327.0	2322.8	2315.8	2308.7	2304.6	2300.1	2297.1	2298.2	2301.6	2306.6	2312.5
18°	2316.8	2312.1	2305.2	2297.9	2294.0	2288.6	2285.9	2286.9	2290.5	2295.8	2301.4
18.5°	2305.6	2300.9	2293.8	2286.2	2282.3	2277.2	2275.0	2275.5	2279.0	2284.6	2290.3
19°	2294.5	2289.5	2283.0	2275.1	2270.8	2265.7	2263.2	2263.9	2267.1	2273.0	2278.8
19.5°	2283.0	2278.2	2271.3	2263.4	2259.4	2254.1	2251.0	2251.6	2255.3	2260.8	2266.9
20°	2271.9	2266.7	2259.6	2251.4	2247.2	2241.7	2239.0	2239.3	2243.1	2249.1	2254.8
20.5°	2259.3	2254.3	2247.0	2238.7	2234.7	2229.0	2226.4	2226.7	2230.6	2236.3	2242.4
21°	2246.9	2242.2	2234.6	2226.1	2221.9	2216.3	2213.4	2213.9	2217.8	2223.8	2229.5
21.5°	2234.2	2229.5	2221.8	2213.2	2209.3	2203.2	2200.4	2200.6	2205.1	2210.9	2216.9
22°	2221.7	2216.9	2209.1	2200.0	2195.6	2190.1	2187.2	2187.2	2191.4	2197.5	2203.6



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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°	2208.5	2203.2	2195.8	2186.8	2182.1	2176.5	2173.6	2173.7	2178.0	2184.4	2190.3
23°	2195.0	2190.0	2182.5	2173.4	2168.6	2162.5	2159.5	2159.9	2164.3	2170.5	2176.4
23.5°	2181.5	2176.4	2168.4	2159.4	2154.8	2148.5	2145.4	2145.9	2150.1	2156.4	2162.5
24°	2167.5	2162.0	2154.5	2145.3	2140.4	2134.3	2131.0	2131.4	2135.3	2142.4	2148.4
24.5°	2153.1	2147.9	2139.9	2130.7	2126.1	2119.6	2116.3	2116.6	2121.1	2127.3	2133.7
25°	2138.8	2133.6	2125.6	2115.9	2111.4	2104.6	2101.1	2101.6	2106.1	2112.6	2119.0
25.5°	2124.3	2119.0	2110.4	2101.4	2096.4	2090.0	2086.3	2087.1	2090.9	2097.7	2103.7
26°	2109.2	2103.9	2095.6	2086.1	2081.0	2074.6	2070.7	2071.4	2075.4	2082.3	2088.5
26.5°	2093.5	2088.4	2080.4	2070.8	2065.9	2059.0	2055.1	2055.3	2059.8	2066.8	2072.9
27°	2078.2	2073.0	2065.3	2055.0	2050.1	2043.0	2039.2	2039.5	2043.8	2050.9	2057.3
27.5°	2062.5	2057.2	2049.1	2038.7	2034.2	2027.3	2023.3	2023.9	2027.9	2034.8	2041.4
28°	2046.6	2040.8	2032.5	2023.0	2017.8	2010.9	2006.4	2007.2	2011.4	2018.4	2024.7
28.5°	2029.9	2024.8	2016.4	2006.3	2001.6	1994.4	1990.3	1990.8	1995.1	2002.2	2008.2
29°	2013.5	2008.7	2000.2	1989.8	1984.9	1977.6	1973.4	1974.0	1978.7	1985.6	1991.6
29.5°	1996.8	1991.7	1983.7	1972.9	1968.1	1960.6	1956.5	1956.9	1961.7	1968.4	1974.6
30°	1980.0	1974.5	1966.7	1955.9	1951.0	1943.5	1939.3	1939.6	1944.6	1951.4	1957.3
30.5°	1962.4	1957.3	1949.4	1939.1	1933.8	1926.2	1921.7	1922.5	1927.0	1934.1	1939.7
31°	1945.2	1940.3	1931.9	1921.4	1916.1	1908.9	1904.0	1904.7	1909.5	1916.5	1922.3
31.5°	1927.5	1922.4	1914.0	1903.7	1898.5	1891.2	1886.4	1886.9	1891.8	1898.2	1904.4
32°	1910.1	1904.4	1896.3	1885.8	1880.8	1872.9	1868.0	1868.5	1873.8	1880.4	1886.2
32.5°	1891.9	1886.3	1878.6	1867.5	1862.9	1855.4	1850.3	1850.9	1855.9	1862.6	1868.5
33°	1873.4	1868.5	1859.8	1849.5	1844.6	1836.7	1831.4	1832.1	1837.1	1843.7	1849.7
33.5°	1855.1	1849.6	1841.4	1831.0	1825.9	1817.9	1812.7	1813.8	1818.6	1825.3	1831.1
34°	1836.7	1831.4	1823.0	1812.3	1807.1	1799.1	1794.3	1794.8	1799.9	1806.3	1812.3
34.5°	1817.4	1811.7	1804.0	1793.2	1788.0	1780.2	1775.2	1776.0	1780.7	1787.6	1793.2
35°	1798.2	1793.2	1784.8	1773.4	1769.0	1761.0	1756.1	1756.7	1761.6	1768.2	1773.9
35.5°	1778.8	1774.2	1765.9	1755.0	1749.5	1741.6	1736.4	1737.3	1742.5	1749.3	1754.3
36°	1759.4	1754.1	1746.1	1735.3	1730.0	1722.4	1717.0	1717.6	1722.8	1729.6	1734.5
36.5°	1739.7	1734.6	1726.3	1715.4	1710.5	1702.6	1697.8	1698.3	1703.2	1709.9	1715.3
37°	1719.9	1714.6	1705.7	1695.7	1690.5	1682.8	1677.2	1677.7	1683.2	1689.9	1694.8
37.5°	1699.9	1694.5	1686.2	1675.3	1670.3	1662.6	1657.1	1657.9	1663.1	1669.8	1674.1
38°	1679.0	1674.0	1665.7	1655.2	1650.1	1642.5	1637.1	1637.6	1642.7	1649.1	1654.1
38.5°	1658.6	1653.9	1645.1	1634.8	1629.6	1621.7	1616.7	1617.4	1622.4	1628.8	1633.8
39°	1638.2	1633.1	1624.5	1613.9	1609.2	1601.3	1596.2	1596.9	1601.8	1608.2	1612.7
39.5°	1617.3	1612.0	1604.0	1593.3	1588.5	1580.4	1575.9	1576.5	1581.4	1587.4	1591.9
40°	1596.2	1591.1	1582.8	1571.8	1567.5	1560.0	1555.0	1555.7	1560.6	1566.5	1570.7
40.5°	1574.7	1569.6	1562.0	1551.2	1546.3	1538.9	1534.4	1534.9	1539.7	1545.6	1549.7
41°	1553.4	1548.4	1540.5	1529.5	1525.3	1518.0	1513.4	1513.7	1518.5	1524.6	1528.3
41.5°	1531.8	1526.5	1518.7	1507.7	1504.1	1496.3	1491.9	1492.2	1497.3	1502.8	1506.8
42°	1508.5	1504.0	1495.9	1485.3	1481.3	1474.1	1470.1	1470.6	1475.3	1480.7	1484.5
42.5°	1485.1	1480.2	1472.4	1461.6	1458.1	1450.9	1447.0	1447.7	1452.2	1457.6	1461.6
43°	1459.6	1455.0	1448.0	1436.7	1434.3	1427.2	1423.4	1424.1	1427.9	1433.5	1437.6
43.5°	1434.2	1429.8	1422.2	1412.1	1408.7	1402.5	1398.8	1399.3	1402.9	1408.3	1412.2
44°	1407.8	1403.6	1396.4	1386.0	1383.7	1377.1	1373.7	1373.6	1377.9	1382.8	1386.3
44.5°	1382.5	1377.2	1370.5	1360.3	1357.8	1351.6	1348.2	1348.1	1352.1	1357.0	1360.5



TEST NUMBER: P640228

CATALOG NUMBER: LCR850RD9FSE010-50W-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	1355.3	1350.9	1344.1	1333.3	1332.1	1325.7	1322.1	1322.4	1325.9	1331.4	1335.1
45.5°	1328.6	1324.3	1316.8	1307.5	1305.6	1299.8	1295.6	1296.2	1299.7	1304.8	1307.4
46°	1301.5	1297.0	1290.1	1281.0	1278.8	1273.3	1269.1	1270.0	1273.6	1278.3	1280.8
46.5°	1274.0	1269.7	1263.0	1253.1	1252.3	1246.3	1242.6	1243.4	1247.1	1251.6	1254.2
47°	1246.4	1242.2	1235.7	1226.0	1225.0	1219.6	1215.7	1216.2	1220.4	1224.3	1227.1
47.5°	1219.0	1215.1	1208.4	1198.9	1197.6	1191.9	1188.3	1189.3	1193.0	1197.5	1199.2
48°	1191.5	1187.6	1180.4	1171.5	1170.5	1165.3	1161.4	1162.7	1166.4	1170.9	1171.8
48.5°	1164.1	1159.8	1153.0	1143.2	1143.1	1138.0	1134.4	1135.8	1139.6	1143.2	1145.0
49°	1136.9	1132.1	1125.6	1115.8	1115.6	1110.6	1107.5	1108.4	1112.8	1116.2	1118.3
49.5°	1109.4	1104.8	1098.4	1088.7	1089.0	1082.9	1080.4	1081.5	1086.0	1089.1	1090.2
50°	1081.3	1076.9	1070.4	1061.2	1060.8	1056.0	1052.9	1054.8	1058.6	1062.2	1063.2
50.5°	1054.0	1049.7	1042.4	1033.2	1033.2	1028.9	1026.2	1027.8	1032.4	1035.1	1035.3
51°	1026.7	1022.4	1015.3	1005.7	1006.3	1001.4	999.5	1000.9	1005.1	1008.2	1009.0
51.5°	999.9	994.8	988.5	978.8	979.1	974.7	972.5	974.5	978.9	981.4	981.9
52°	973.1	968.0	961.3	951.6	952.7	947.9	946.1	948.2	952.6	955.0	955.2
52.5°	945.8	941.3	934.0	924.8	925.0	921.3	919.0	921.6	925.6	928.5	928.1
53°	919.4	914.6	907.2	898.1	898.1	893.9	893.1	895.3	900.0	902.3	901.5
53.5°	892.7	888.0	880.4	870.8	871.9	867.3	866.4	869.4	873.4	876.1	875.0
54°	866.0	861.0	853.9	843.9	845.2	841.7	840.4	843.6	847.9	850.0	849.1
54.5°	840.4	835.3	827.5	818.4	819.1	815.7	814.2	817.4	821.8	823.8	823.1
55°	814.4	809.2	801.6	792.5	793.0	790.3	789.2	792.2	797.0	799.0	796.7
55.5°	788.1	783.4	775.6	766.3	767.1	764.1	763.6	767.3	771.3	773.4	771.6
56°	762.9	757.7	749.9	740.5	742.4	739.5	739.2	743.0	747.0	749.1	747.1
56.5°	737.7	732.4	724.1	715.2	717.7	715.0	714.9	718.6	722.8	724.7	722.7
57°	712.5	707.4	699.0	690.1	693.0	690.4	690.6	694.3	698.6	700.4	698.2
57.5°	688.0	682.7	674.5	664.9	668.3	665.9	666.3	670.0	674.3	676.1	673.8
58°	663.4	658.8	650.2	641.0	643.7	641.3	642.0	645.7	650.1	651.8	649.3
58.5°	639.3	634.0	625.8	616.6	619.7	617.4	617.8	621.9	626.4	628.1	624.9
59°	615.4	610.4	601.8	592.6	595.9	593.4	594.2	598.0	602.7	604.1	601.1
59.5°	591.9	586.7	578.5	568.7	572.5	570.0	570.7	575.2	579.3	581.1	577.5
60°	568.6	563.6	555.0	546.2	548.9	546.9	547.2	551.8	556.5	557.7	554.4
60.5°	545.5	540.4	531.9	522.8	526.4	524.5	524.8	529.4	533.7	535.2	531.2
61°	522.9	518.2	509.3	500.8	504.1	502.2	502.6	506.8	511.6	512.9	508.9
61.5°	500.5	495.7	487.4	478.6	482.2	480.0	480.7	485.2	489.6	490.6	486.6
62°	479.2	474.3	465.6	457.1	460.7	458.4	459.2	463.3	468.0	469.5	465.1
62.5°	457.1	452.2	443.7	435.1	439.0	437.3	437.5	442.5	446.6	447.8	443.7
63°	435.8	431.6	422.7	414.7	417.8	416.1	416.6	421.0	424.2	426.5	422.1
63.5°	414.2	410.4	401.9	394.3	397.4	395.8	396.1	400.6	402.3	405.7	402.1
64°	392.7	390.3	381.8	373.9	377.5	375.4	376.2	380.1	381.0	385.1	381.6
64.5°	370.9	369.2	362.1	353.8	357.8	356.4	356.5	360.9	359.7	364.6	361.8
65°	350.5	350.2	342.6	334.9	338.4	337.0	337.1	341.4	339.0	344.8	342.8
65.5°	331.9	328.6	324.2	317.0	319.7	318.3	318.4	322.0	318.2	325.2	323.8
66°	311.7	310.0	305.8	299.1	301.4	300.1	300.2	302.6	298.6	305.9	305.0
66.5°	291.5	291.5	287.5	281.2	284.0	282.4	282.4	284.4	279.7	286.7	287.3
67°	271.4	273.0	269.2	263.3	266.5	264.7	265.0	265.8	261.9	268.5	269.7



TEST NUMBER: P640228

CATALOG NUMBER: LCR850RD9FSE010-50W-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	251.3	254.5	250.9	245.5	249.4	248.3	248.0	248.4	244.5	251.0	252.8
68°	234.0	237.3	234.9	229.4	233.1	232.0	231.9	231.2	227.6	234.1	236.1
68.5°	217.2	220.6	219.0	213.8	217.7	216.6	216.3	214.9	211.4	217.7	220.3
69°	201.1	204.2	203.6	198.5	202.3	201.1	201.2	199.2	195.7	202.0	205.0
69.5°	185.3	189.0	188.5	184.0	187.6	186.7	186.6	184.3	180.6	187.0	190.3
70°	170.5	174.5	174.9	170.4	173.4	172.7	172.3	170.2	166.0	172.7	175.9
70.5°	156.4	160.6	161.1	157.2	160.3	159.4	159.5	157.0	152.8	159.3	162.7
71°	143.1	147.3	148.3	144.4	147.4	146.9	146.8	144.2	139.7	146.2	149.7
71.5°	130.3	134.7	135.6	132.7	135.5	135.0	134.8	132.4	127.4	134.3	137.6
72°	118.1	123.1	124.7	121.7	124.2	123.5	123.4	121.2	115.8	122.7	126.2
72.5°	106.3	112.3	114.0	111.4	113.7	113.3	113.3	110.9	105.0	112.1	115.4
73°	96.1	102.2	103.9	101.8	103.8	103.6	103.3	101.1	94.6	102.3	105.4
73.5°	86.9	93.4	94.6	93.0	95.2	94.8	94.6	94.0	87.9	93.4	96.4
74°	79.5	85.4	86.7	85.2	88.5	88.0	87.7	86.9	81.1	86.7	90.0
74.5°	73.7	78.2	79.4	78.2	81.8	81.3	80.9	79.8	74.4	80.0	83.6
75°	68.3	71.8	73.1	72.2	75.1	74.6	74.1	72.7	67.7	73.4	77.2
75.5°	64.4	66.5	67.5	67.1	68.4	67.9	67.3	65.6	64.0	66.7	70.8
76°	61.2	62.1	63.5	63.2	64.2	63.9	63.3	61.6	60.7	62.4	64.4
76.5°	58.1	58.9	60.4	60.1	61.1	60.8	60.2	58.4	57.6	59.2	61.2
77°	55.1	55.8	57.4	57.2	58.1	57.9	57.2	55.3	54.6	56.0	58.2
77.5°	52.1	52.8	54.4	54.3	55.2	55.0	54.4	52.4	51.7	53.1	55.3
78°	49.2	49.9	51.5	51.5	52.4	52.2	51.5	49.5	48.7	50.1	52.4
78.5°	46.4	47.0	48.7	48.7	49.5	49.3	48.7	46.6	45.9	47.2	49.6
79°	43.6	44.1	45.9	46.0	46.9	46.6	45.9	43.8	43.1	44.3	46.7
79.5°	40.8	41.3	43.1	43.4	44.1	43.9	43.2	41.1	40.4	41.6	44.0
80°	38.0	38.5	40.4	40.8	41.5	41.3	40.5	38.4	37.7	38.8	41.3
80.5°	35.4	35.9	37.8	38.2	38.9	38.8	38.0	35.7	35.1	36.2	38.7
81°	33.3	33.2	35.2	35.6	36.5	36.2	35.4	33.1	32.5	33.5	36.1
81.5°	30.7	30.7	32.7	32.9	33.9	33.7	32.9	30.6	30.0	31.0	33.5
82°	28.1	28.2	30.3	30.6	31.4	31.3	30.4	28.1	27.5	28.4	31.0
82.5°	25.5	25.7	27.9	28.3	29.0	28.9	27.9	25.6	25.0	25.9	28.6
83°	22.9	23.3	25.5	25.9	26.7	26.5	25.5	23.1	22.6	23.5	26.2
83.5°	20.5	20.8	23.1	23.6	24.3	24.1	23.2	20.8	20.3	21.1	23.9
84°	18.1	18.5	20.8	21.3	22.0	21.8	20.9	18.5	18.0	18.8	21.5
84.5°	15.9	16.1	18.6	19.1	19.7	19.6	18.7	16.3	15.7	16.5	19.3
85°	13.6	13.9	16.4	16.9	17.5	17.4	16.5	14.2	13.5	14.4	17.1
85.5°	11.5	12.2	14.4	14.7	15.3	15.2	14.3	12.2	11.6	12.6	15.0
86°	9.7	10.2	12.4	12.6	13.2	13.1	12.3	10.5	10.0	10.9	12.9
86.5°	8.0	8.5	10.3	10.5	11.1	11.0	10.4	8.8	8.4	9.2	11.0
87°	6.5	6.9	8.4	8.4	9.1	9.0	8.5	7.2	6.7	7.5	9.0
87.5°	5.1	5.4	6.4	6.4	7.1	7.0	6.6	5.5	5.1	5.8	7.1
88°	3.7	3.9	4.5	4.4	5.1	5.0	4.7	3.8	3.5	4.1	5.1
88.5°	2.8	3.0	2.7	3.5	3.0	3.0	2.8	2.3	2.1	2.5	3.1
89°	2.0	2.1	2.1	2.7	1.2	1.2	1.1	1.0	0.9	1.1	1.4
89.5°	1.1	1.2	1.5	1.9	0.2	0.3	0.3	0.4	0.3	0.3	0.3



TEST NUMBER: P640228
 CATALOG NUMBER: LCR850RD9FSE010-50W-3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.3	0.3	0.9	1.1	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°	0.3	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	0.3	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	0.3	0.2	0.2
98.5°	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2
99°	0.3	0.3	0.3	0.3	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	0.3	0.2
104°	0.4	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	0.3	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	0.3	0.2	0.2	0.3	0.3	0.3	0.2
106.5°	0.4	0.4	0.4	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.2
107°	0.4	0.4	0.4	0.4	0.3	0.2	0.3	0.3	0.3	0.3	0.3
107.5°	0.4	0.4	0.4	0.4	0.3	0.3	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°	0.5	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	0.5	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	0.4	0.3



TEST NUMBER: P640228
 CATALOG NUMBER: LCR850RD9FSE010-50W-3000K

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	0.5	0.5	0.3	0.3	0.3	0.4	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	0.4
114°	0.5	0.5	0.5	0.5	0.4	0.4	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	0.5	0.4	0.4
115.5°	0.6	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	0.6	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.5	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	0.5	0.5	0.5	0.4
118°	0.6	0.6	0.5	0.6	0.4	0.4	0.4	0.5	0.5	0.5	0.4
118.5°	0.6	0.6	0.6	0.6	0.5	0.4	0.5	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	0.6	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°	0.7	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	0.6	0.5
121.5°	0.7	0.7	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	0.6
123°	0.7	0.7	0.7	0.7	0.6	0.6	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	0.7	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°	0.8	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.7	0.7	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	0.7	0.7	0.7	0.6
126.5°	0.8	0.8	0.7	0.7	0.6	0.6	0.6	0.7	0.7	0.7	0.6
127°	0.8	0.8	0.7	0.8	0.7	0.6	0.7	0.7	0.7	0.7	0.7
127.5°	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.8	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	0.8	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	0.8	0.8	0.8	0.7
130.5°	0.9	0.8	0.8	0.8	0.7	0.7	0.7	0.8	0.8	0.8	0.7
131°	0.9	0.8	0.8	0.8	0.8	0.7	0.8	0.8	0.8	0.8	0.8
131.5°	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.8	0.8
132°	0.9	0.9	0.9	0.9	0.8	0.8	0.8	0.8	0.9	0.9	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	0.9	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: P640228
 CATALOG NUMBER: LCR850RD9FSE010-50W-3000K

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	0.9	0.8	0.9	0.9	1.0	0.9	0.9
135.5°	1.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.0	0.9	0.9
136°	1.0	1.0	0.9	1.0	0.9	0.9	0.9	0.9	1.0	0.9	0.9
136.5°	1.0	1.0	1.0	1.0	0.9	0.9	0.9	0.9	1.0	1.0	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	1.0	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	1.0	0.9	0.9	1.0	1.1	1.0	1.0
139.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	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°	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.0	1.0
142°	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.0
142.5°	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.1	1.1	1.1	1.1
143°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
143.5°	1.1	1.1	1.1	1.1	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	1.2	1.1	1.1
146°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.2
146.5°	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2
147°	1.2	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2
147.5°	1.2	1.2	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2
148°	1.2	1.2	1.1	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2
148.5°	1.2	1.2	1.2	1.1	1.2	1.2	1.2	1.2	1.2	1.2	1.2
149°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
149.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.2	1.2
150°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3
150.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.3	1.3
151°	1.2	1.2	1.2	1.2	1.3	1.3	1.3	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	1.4	1.3	1.3
154°	1.2	1.2	1.2	1.2	1.3	1.3	1.3	1.4	1.4	1.4	1.4
154.5°	1.2	1.2	1.2	1.2	1.3	1.3	1.4	1.4	1.4	1.4	1.4
155°	1.2	1.2	1.2	1.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4
155.5°	1.3	1.2	1.2	1.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4
156°	1.3	1.3	1.2	1.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4
156.5°	1.3	1.3	1.2	1.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4
157°	1.3	1.3	1.2	1.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4



TEST NUMBER: P640228
 CATALOG NUMBER: LCR850RD9FSE010-50W-3000K

CANDELA DISTRIBUTION (continued):

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



TEST NUMBER: P640228
CATALOG NUMBER: LCR850RD9FSE010-50W-3000K

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: P640228

CATALOG NUMBER: LCR850RD9FSE010-50W-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2502.7	2502.7	2502.7	2502.7	2502.7	2502.7
0.5°	2502.7	2502.8	2502.9	2503.0	2503.2	2502.8
1°	2502.7	2502.7	2502.9	2502.8	2503.1	2502.5
1.5°	2501.9	2502.1	2502.2	2502.5	2502.9	2502.3
2°	2501.1	2501.4	2501.8	2501.9	2501.8	2501.6
2.5°	2499.6	2500.4	2500.6	2501.2	2501.2	2500.8
3°	2498.4	2498.6	2499.5	2499.8	2499.8	2499.6
3.5°	2496.3	2497.0	2497.8	2498.2	2498.5	2498.0
4°	2493.9	2494.6	2495.9	2496.0	2496.8	2495.8
4.5°	2491.7	2492.4	2493.7	2494.0	2494.3	2493.6
5°	2488.9	2489.7	2491.0	2491.6	2492.1	2490.9
5.5°	2485.8	2486.7	2488.0	2488.9	2489.3	2488.1
6°	2482.3	2483.3	2485.1	2485.9	2485.9	2484.8
6.5°	2478.7	2479.8	2481.6	2482.7	2482.5	2481.3
7°	2474.7	2475.6	2477.6	2478.8	2478.8	2477.5
7.5°	2470.0	2471.3	2473.4	2474.8	2474.6	2473.5
8°	2465.3	2466.5	2469.0	2470.4	2470.4	2469.2
8.5°	2460.3	2461.4	2463.7	2465.4	2465.8	2464.2
9°	2455.0	2456.2	2459.1	2460.4	2460.9	2459.3
9.5°	2449.7	2450.6	2453.4	2455.3	2455.5	2454.0
10°	2443.8	2444.7	2447.7	2449.6	2450.1	2448.6
10.5°	2437.6	2438.6	2441.7	2444.1	2444.2	2442.4
11°	2430.9	2432.3	2435.4	2437.5	2437.7	2436.2
11.5°	2424.1	2425.5	2428.5	2430.7	2431.0	2429.7
12°	2416.9	2418.3	2421.5	2424.0	2424.2	2422.8
12.5°	2409.6	2410.8	2414.2	2416.8	2417.0	2415.6
13°	2401.5	2403.0	2406.9	2409.1	2409.8	2408.4
13.5°	2393.5	2395.5	2398.9	2401.2	2401.9	2400.3
14°	2385.3	2386.7	2390.5	2392.8	2393.9	2392.2
14.5°	2376.5	2378.1	2381.9	2384.7	2385.7	2383.8
15°	2367.5	2369.3	2372.8	2375.9	2376.9	2375.0
15.5°	2358.3	2360.0	2363.3	2366.9	2367.8	2365.9
16°	2348.7	2350.4	2354.1	2357.3	2358.5	2356.6
16.5°	2338.8	2340.4	2344.3	2347.8	2349.3	2347.1
17°	2328.5	2330.1	2334.0	2338.0	2339.3	2337.3
17.5°	2318.3	2319.2	2323.9	2327.7	2328.8	2327.0
18°	2307.0	2308.7	2313.0	2316.4	2318.2	2316.8
18.5°	2296.3	2297.4	2302.0	2305.4	2307.5	2305.6
19°	2284.6	2286.1	2290.9	2294.6	2296.4	2294.5
19.5°	2272.9	2274.4	2278.7	2282.8	2284.9	2283.0
20°	2261.0	2262.4	2267.0	2271.2	2273.2	2271.9
20.5°	2248.5	2250.0	2254.7	2259.1	2261.1	2259.3
21°	2235.5	2237.1	2242.1	2246.6	2249.0	2246.9
21.5°	2222.9	2224.5	2229.0	2234.0	2236.1	2234.2
22°	2209.7	2210.9	2215.9	2220.9	2223.3	2221.7

TEST NUMBER: P640228

CATALOG NUMBER: LCR850RD9FSE010-50W-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	2196.5	2197.6	2202.5	2207.7	2210.1	2208.5
23°	2182.7	2183.6	2189.1	2194.0	2196.9	2195.0
23.5°	2169.0	2169.4	2174.8	2180.0	2183.3	2181.5
24°	2154.8	2155.2	2160.9	2166.0	2169.2	2167.5
24.5°	2140.0	2140.7	2145.9	2151.2	2154.4	2153.1
25°	2125.0	2125.4	2131.2	2137.0	2140.2	2138.8
25.5°	2110.1	2110.2	2116.1	2122.1	2125.4	2124.3
26°	2094.8	2095.2	2101.0	2107.0	2110.4	2109.2
26.5°	2079.2	2079.5	2084.9	2091.0	2095.0	2093.5
27°	2063.0	2063.4	2069.2	2075.9	2079.2	2078.2
27.5°	2047.0	2047.3	2053.0	2059.7	2063.3	2062.5
28°	2030.9	2030.6	2036.5	2043.3	2047.5	2046.6
28.5°	2014.2	2013.9	2019.6	2026.9	2031.3	2029.9
29°	1997.5	1997.0	2002.9	2010.2	2014.9	2013.5
29.5°	1980.3	1979.9	1985.5	1993.1	1997.9	1996.8
30°	1963.3	1962.9	1968.3	1975.9	1981.0	1980.0
30.5°	1945.8	1945.0	1950.7	1958.7	1963.6	1962.4
31°	1928.3	1926.9	1932.6	1940.6	1946.0	1945.2
31.5°	1910.1	1908.9	1914.5	1922.6	1928.4	1927.5
32°	1891.9	1891.1	1896.3	1904.7	1910.3	1910.1
32.5°	1873.8	1872.1	1877.7	1886.7	1892.3	1891.9
33°	1855.3	1853.4	1859.1	1867.9	1874.1	1873.4
33.5°	1836.4	1834.5	1840.3	1848.9	1855.6	1855.1
34°	1817.2	1815.5	1821.4	1830.1	1836.7	1836.7
34.5°	1798.4	1795.7	1801.4	1810.7	1817.1	1817.4
35°	1778.8	1776.4	1781.7	1791.2	1798.0	1798.2
35.5°	1759.2	1756.5	1762.2	1771.9	1778.8	1778.8
36°	1739.8	1736.4	1742.2	1751.6	1759.2	1759.4
36.5°	1719.5	1716.2	1722.2	1731.6	1738.9	1739.7
37°	1698.7	1695.9	1701.3	1711.3	1718.8	1719.9
37.5°	1678.7	1674.8	1680.7	1691.2	1698.8	1699.9
38°	1657.9	1653.9	1659.9	1670.4	1678.3	1679.0
38.5°	1637.4	1633.0	1639.1	1649.2	1657.5	1658.6
39°	1616.6	1612.1	1617.7	1628.7	1637.0	1638.2
39.5°	1595.6	1590.8	1596.4	1607.2	1616.1	1617.3
40°	1574.4	1568.7	1574.7	1585.9	1595.0	1596.2
40.5°	1553.3	1547.3	1553.2	1564.3	1573.4	1574.7
41°	1531.3	1525.7	1531.1	1542.3	1552.1	1553.4
41.5°	1509.4	1503.1	1508.9	1520.6	1530.8	1531.8
42°	1487.0	1481.1	1486.4	1497.9	1507.7	1508.5
42.5°	1463.4	1456.8	1462.7	1474.4	1483.8	1485.1
43°	1439.2	1431.9	1437.3	1449.4	1458.4	1459.6
43.5°	1414.1	1405.8	1412.0	1423.7	1433.3	1434.2
44°	1387.9	1380.2	1385.6	1397.8	1407.0	1407.8
44.5°	1362.0	1353.9	1359.2	1371.5	1381.1	1382.5

TEST NUMBER: P640228

CATALOG NUMBER: LCR850RD9FSE010-50W-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	1335.6	1326.5	1332.2	1344.4	1353.7	1355.3
45.5°	1309.0	1299.4	1305.4	1317.4	1327.4	1328.6
46°	1282.3	1272.6	1277.6	1290.2	1299.9	1301.5
46.5°	1254.7	1245.0	1250.4	1262.7	1273.1	1274.0
47°	1227.2	1217.6	1222.0	1234.2	1245.2	1246.4
47.5°	1199.3	1188.7	1194.1	1207.2	1217.6	1219.0
48°	1172.1	1161.7	1165.9	1179.1	1189.8	1191.5
48.5°	1144.9	1133.6	1138.4	1151.1	1162.9	1164.1
49°	1117.1	1105.7	1110.6	1123.6	1135.2	1136.9
49.5°	1089.3	1078.9	1082.6	1096.1	1107.4	1109.4
50°	1061.4	1050.2	1053.8	1067.2	1079.0	1081.3
50.5°	1033.9	1022.6	1026.6	1039.6	1052.0	1054.0
51°	1006.8	994.5	999.1	1012.1	1024.9	1026.7
51.5°	979.1	967.8	971.7	984.8	997.7	999.9
52°	952.2	940.2	944.5	957.2	970.2	973.1
52.5°	925.4	913.5	917.6	930.7	943.5	945.8
53°	898.2	886.4	890.7	903.0	916.6	919.4
53.5°	871.3	859.7	864.0	876.2	889.8	892.7
54°	845.0	832.6	837.4	849.4	862.6	866.0
54.5°	818.7	807.5	811.4	823.7	836.7	840.4
55°	793.1	781.8	785.6	797.3	810.3	814.4
55.5°	767.5	755.4	759.9	771.4	785.0	788.1
56°	742.9	730.2	734.7	746.1	758.5	762.9
56.5°	718.3	705.5	709.7	720.8	733.6	737.7
57°	693.7	681.0	684.6	696.0	707.6	712.5
57.5°	669.1	656.7	660.1	670.8	683.6	688.0
58°	644.5	632.5	636.4	646.6	659.3	663.4
58.5°	620.3	608.9	612.7	622.6	635.2	639.3
59°	596.7	585.6	588.8	598.7	610.6	615.4
59.5°	573.4	562.8	566.0	575.7	587.1	591.9
60°	550.7	539.8	543.4	552.3	563.8	568.6
60.5°	527.7	517.7	520.9	529.6	540.9	545.5
61°	505.3	495.8	499.2	507.3	517.8	522.9
61.5°	483.5	474.5	477.3	485.7	495.9	500.5
62°	462.6	453.9	456.3	464.3	474.0	479.2
62.5°	441.1	432.5	435.4	442.8	452.0	457.1
63°	420.5	412.3	415.1	421.9	431.4	435.8
63.5°	399.9	392.4	395.1	401.7	410.6	414.2
64°	380.3	373.0	375.0	381.8	389.8	392.7
64.5°	360.6	354.0	356.2	362.0	369.8	370.9
65°	341.6	334.6	338.0	343.4	350.6	350.5
65.5°	323.1	316.8	320.3	325.4	329.3	331.9
66°	304.8	299.0	302.5	307.4	311.2	311.7
66.5°	286.8	281.2	284.8	289.4	293.1	291.5
67°	269.7	263.4	267.0	271.4	275.0	271.4



TEST NUMBER: P640228
 CATALOG NUMBER: LCR850RD9FSE010-50W-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	253.0	247.1	249.3	253.5	256.9	251.3
68°	236.7	231.1	233.0	237.2	240.1	234.0
68.5°	221.0	215.4	217.6	221.3	223.4	217.2
69°	205.7	200.7	202.6	206.3	207.0	201.1
69.5°	191.1	186.3	188.1	191.3	191.5	185.3
70°	176.9	172.5	174.5	177.8	177.1	170.5
70.5°	163.6	159.1	161.0	164.1	163.2	156.4
71°	150.8	146.5	148.7	151.2	149.9	143.1
71.5°	138.5	134.5	136.5	139.0	137.9	130.3
72°	127.1	123.5	125.3	127.7	126.0	118.1
72.5°	116.6	112.9	114.8	117.0	115.2	106.3
73°	106.5	103.2	105.0	106.8	105.0	96.1
73.5°	97.5	94.3	95.9	97.5	95.7	86.9
74°	91.1	86.6	87.7	89.3	87.3	79.5
74.5°	84.7	79.6	80.4	81.7	79.7	73.7
75°	78.2	73.6	74.2	75.0	73.1	68.3
75.5°	71.8	68.4	68.9	69.2	67.4	64.4
76°	65.4	64.5	64.7	64.7	62.8	61.2
76.5°	62.2	61.4	61.6	61.5	59.4	58.1
77°	59.2	58.4	58.7	58.6	56.4	55.1
77.5°	56.3	55.6	55.8	55.6	53.4	52.1
78°	53.4	52.7	52.9	52.7	50.5	49.2
78.5°	50.5	49.8	50.1	49.9	47.6	46.4
79°	47.8	47.1	47.4	47.1	44.7	43.6
79.5°	45.2	44.4	44.6	44.3	41.9	40.8
80°	42.5	41.7	41.9	41.5	39.1	38.0
80.5°	39.9	39.1	39.3	38.9	36.5	35.4
81°	37.3	36.5	36.8	36.3	33.9	33.3
81.5°	34.8	34.0	34.2	33.7	31.4	30.7
82°	32.2	31.6	31.7	31.2	28.8	28.1
82.5°	29.8	29.2	29.3	28.8	26.3	25.5
83°	27.4	26.8	26.9	26.4	23.8	22.9
83.5°	25.0	24.4	24.5	23.9	21.3	20.5
84°	22.7	22.0	22.1	21.5	18.9	18.1
84.5°	20.4	19.7	19.8	19.3	16.6	15.9
85°	18.1	17.4	17.6	17.0	14.5	13.6
85.5°	15.9	15.2	15.4	14.9	12.5	11.5
86°	13.7	13.1	13.2	12.8	10.6	9.7
86.5°	11.7	11.0	11.0	10.8	8.7	8.0
87°	9.6	8.9	8.9	8.8	7.1	6.5
87.5°	7.6	6.8	6.9	6.9	5.6	5.1
88°	5.5	4.8	4.9	4.9	4.1	3.7
88.5°	3.4	2.8	3.0	3.0	3.3	2.8
89°	1.5	2.1	2.3	2.3	2.6	2.0
89.5°	0.3	1.5	1.6	1.6	1.8	1.1



TEST NUMBER: P640228

CATALOG NUMBER: LCR850RD9FSE010-50W-3000K

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	0.3
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	0.3	0.2	0.2	0.2	0.3
98.5°	0.2	0.3	0.3	0.2	0.3	0.3
99°	0.2	0.3	0.3	0.3	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	0.4
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	0.4	0.3	0.3	0.4	0.4
107°	0.2	0.4	0.4	0.4	0.4	0.4
107.5°	0.3	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	0.5
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: P640228
 CATALOG NUMBER: LCR850RD9FSE010-50W-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.3	0.4	0.4	0.4	0.5	0.5
113°	0.3	0.5	0.4	0.4	0.5	0.5
113.5°	0.3	0.5	0.5	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	0.6
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	0.6	0.5	0.5	0.6	0.6
118.5°	0.4	0.6	0.6	0.6	0.6	0.6
119°	0.5	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	0.7
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	0.7	0.7
123°	0.5	0.7	0.6	0.6	0.7	0.7
123.5°	0.6	0.7	0.7	0.7	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	0.8
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	0.8	0.7	0.7	0.8	0.8
127.5°	0.7	0.8	0.7	0.7	0.8	0.8
128°	0.7	0.8	0.8	0.8	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	0.9
131°	0.7	0.8	0.8	0.8	0.8	0.9
131.5°	0.8	0.9	0.8	0.8	0.9	0.9
132°	0.8	0.9	0.9	0.9	0.9	0.9
132.5°	0.8	0.9	0.9	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: P640228
 CATALOG NUMBER: LCR850RD9FSE010-50W-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.9	0.9	0.9	0.9	0.9	0.9
135.5°	0.9	0.9	0.9	0.9	0.9	1.0
136°	0.9	1.0	0.9	0.9	0.9	1.0
136.5°	0.9	1.0	0.9	1.0	1.0	1.0
137°	0.9	1.0	1.0	1.0	1.0	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°	1.0	1.0	1.0	1.0	1.0	1.0
139.5°	1.0	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	1.1
142°	1.0	1.0	1.0	1.0	1.0	1.1
142.5°	1.1	1.1	1.0	1.0	1.1	1.1
143°	1.1	1.1	1.1	1.1	1.1	1.1
143.5°	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
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°	1.2	1.1	1.1	1.1	1.1	1.1
147°	1.2	1.1	1.1	1.1	1.1	1.2
147.5°	1.2	1.1	1.1	1.1	1.1	1.2
148°	1.2	1.1	1.1	1.1	1.2	1.2
148.5°	1.2	1.1	1.1	1.1	1.2	1.2
149°	1.2	1.1	1.1	1.1	1.2	1.2
149.5°	1.2	1.2	1.2	1.2	1.2	1.2
150°	1.2	1.2	1.2	1.2	1.2	1.2
150.5°	1.3	1.2	1.2	1.2	1.2	1.2
151°	1.3	1.2	1.2	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°	1.4	1.2	1.2	1.2	1.2	1.2
155°	1.4	1.2	1.2	1.2	1.2	1.2
155.5°	1.4	1.2	1.2	1.2	1.2	1.3
156°	1.4	1.2	1.2	1.2	1.2	1.3
156.5°	1.4	1.2	1.2	1.2	1.3	1.3
157°	1.4	1.2	1.2	1.2	1.3	1.3

TEST NUMBER: P640228

CATALOG NUMBER: LCR850RD9FSE010-50W-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	1.4	1.2	1.2	1.2	1.3	1.3
158°	1.4	1.2	1.2	1.2	1.3	1.3
158.5°	1.4	1.2	1.2	1.2	1.3	1.3
159°	1.5	1.2	1.2	1.2	1.3	1.3
159.5°	1.5	1.2	1.2	1.2	1.3	1.3
160°	1.5	1.2	1.2	1.2	1.3	1.3
160.5°	1.5	1.2	1.2	1.3	1.3	1.3
161°	1.5	1.2	1.2	1.3	1.3	1.3
161.5°	1.5	1.2	1.2	1.3	1.3	1.3
162°	1.5	1.2	1.2	1.3	1.3	1.3
162.5°	1.5	1.2	1.2	1.3	1.3	1.3
163°	1.5	1.2	1.2	1.3	1.3	1.3
163.5°	1.5	1.2	1.2	1.3	1.3	1.3
164°	1.5	1.2	1.2	1.3	1.3	1.3
164.5°	1.5	1.2	1.2	1.3	1.3	1.3
165°	1.5	1.2	1.2	1.3	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	1.3	1.3	1.3	1.3
167°	1.5	1.2	1.3	1.3	1.3	1.3
167.5°	1.5	1.2	1.3	1.3	1.3	1.3
168°	1.5	1.2	1.3	1.3	1.3	1.3
168.5°	1.5	1.2	1.3	1.3	1.3	1.3
169°	1.5	1.3	1.3	1.3	1.3	1.3
169.5°	1.5	1.3	1.3	1.3	1.3	1.3
170°	1.5	1.3	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	1.4	1.4
173.5°	1.5	1.3	1.3	1.4	1.4	1.4
174°	1.5	1.3	1.3	1.4	1.4	1.4
174.5°	1.5	1.4	1.4	1.4	1.4	1.4
175°	1.5	1.4	1.4	1.4	1.4	1.4
175.5°	1.5	1.4	1.4	1.4	1.4	1.4
176°	1.6	1.4	1.4	1.4	1.4	1.4
176.5°	1.6	1.4	1.4	1.4	1.4	1.4
177°	1.6	1.4	1.4	1.4	1.4	1.4
177.5°	1.5	1.5	1.4	1.4	1.4	1.4
178°	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
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: P640228
CATALOG NUMBER: LCR850RD9FSE010-50W-3000K

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)