

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: P640221

Luminaire Tested: LCR830RD9FSE040-33W-2700K

Issue Date: 2/13/2023

Test Information

Test Method: LM-79-2019
Report Number: P640221
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2208047C001)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO
Catalog Number: LCR830RD9FSE040-33W-2700K
Description: LCR 8
Light Source: 2700K CCT, 93 CRI LEDS
Ballast/Driver: -

Summary

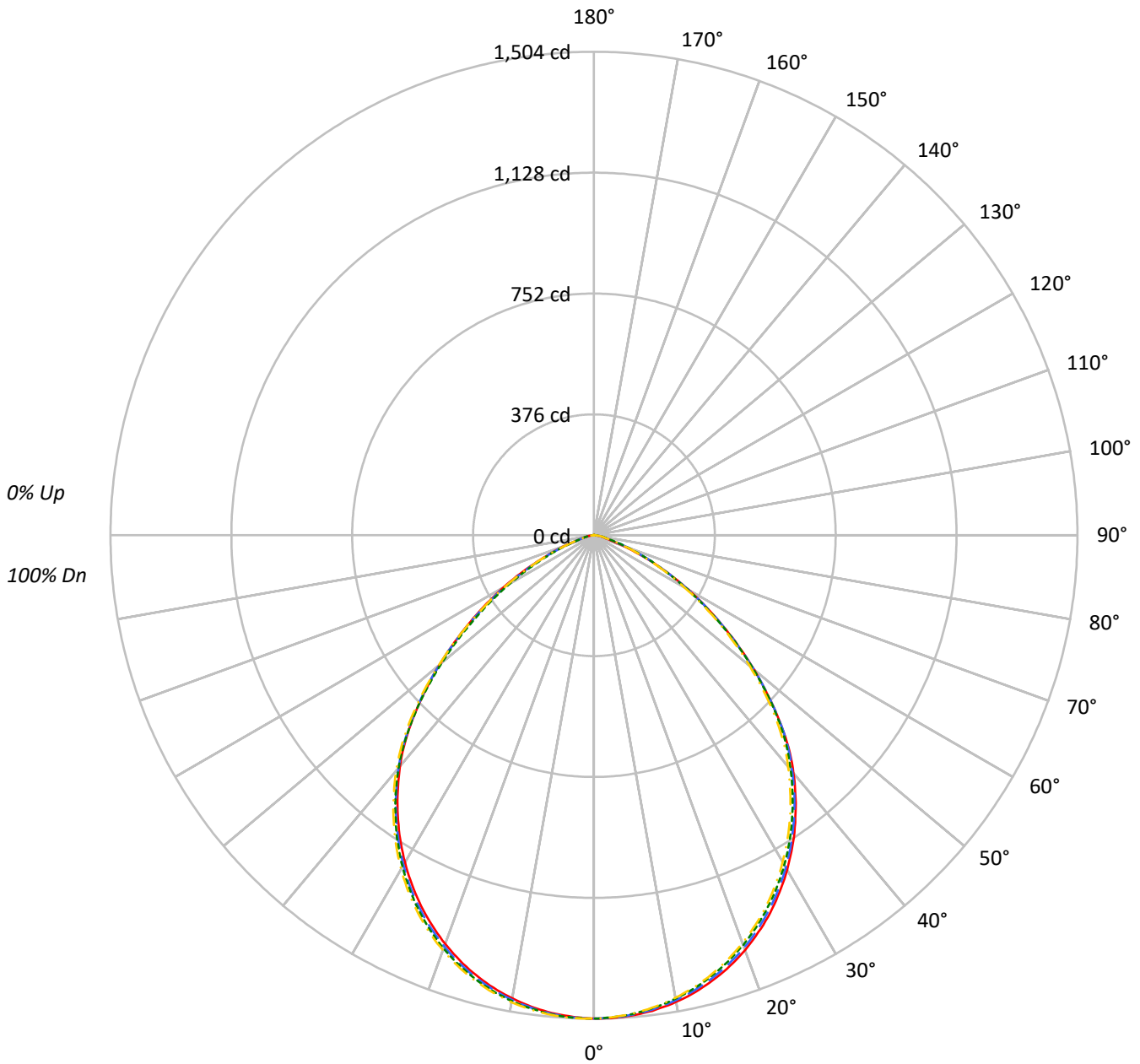
Lumens per Lamp: N/A
Luminaire Lumens: 3110.0 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.26
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 32.7
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	91	86	82	87	84	81	84	82	79	77
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52
6	75	63	55	50	74	63	55	49	61	54	49	59	53	49	58	52	48	46
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	47	43	41
8	66	53	45	40	64	52	45	40	51	44	40	50	44	39	49	43	39	37
9	61	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34
10	58	45	38	33	57	45	38	33	44	37	33	43	37	33	42	37	33	31

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	46365	46365	46365	46365
5°	46351	46196	46184	46326
10°	46154	45831	45809	46069
15°	45728	45284	45227	45597
20°	45075	44563	44393	44888
25°	44105	43486	43285	43833
30°	42796	42162	41863	42404
35°	41085	40460	40050	40513
40°	38861	38306	37778	38068
45°	35581	35358	34412	34438
50°	31168	31024	30079	29662
55°	26241	25935	25220	24300
60°	20956	20537	19994	18736
65°	15075	15169	14235	13083
70°	8971	10080	8583	7817
75°	4790	6052	4742	4563
80°	3996	4937	3907	3800
85°	2901	4670	2795	2689

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 35650 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.8	4.6
10°-20°	401.2	12.9
20°-30°	590.4	19.0
30°-40°	671.7	21.6
40°-50°	615.2	19.8
50°-60°	423.4	13.6
60°-70°	199.8	6.4
70°-80°	52.7	1.7
80°-90°	11.1	0.4
90°-100°	0.1	0.0
100°-110°	0.2	0.0
110°-120°	0.3	0.0
120°-130°	0.4	0.0
130°-140°	0.4	0.0
140°-150°	0.4	0.0
150°-160°	0.4	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	1133.5	36.4
0°-40°	1805.2	58.0
0°-60°	2843.9	91.4
0°-90°	3107.6	99.9
90°-120°	0.6	0.0
90°-150°	1.8	0.1
90°-180°	2.0	0.1
0°-180°	3110.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1504	1504	1504	1504	1504	
5°	1497	1492	1492	1497	1497	142
15°	1432	1418	1417	1428	1432	404
25°	1296	1278	1272	1288	1296	596
35°	1091	1075	1064	1076	1091	681
45°	816	811	789	790	816	626
55°	488	482	469	452	488	437
65°	207	208	195	179	207	208
75°	40	51	40	38	40	50
85°	8	13	8	8	8	10
90°	0	1	0	0	0	0
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	1	0	1	0	1	0
145°	1	1	1	1	1	0
155°	1	1	1	1	1	0
165°	1	1	1	1	1	0
175°	1	1	1	1	1	0
180°	1	1	1	1	1	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	1503.6	1503.6	1503.6	1503.6	1503.6	1503.6	1503.6	1503.6	1503.6	1503.6	1503.6
0.5°	1504.0	1503.6	1503.6	1503.3	1503.3	1503.3	1503.1	1503.1	1503.2	1503.2	1503.4
1°	1503.6	1503.5	1503.1	1502.8	1502.8	1502.8	1502.5	1502.5	1502.7	1502.8	1503.0
1.5°	1503.5	1503.4	1502.6	1502.2	1501.8	1501.7	1501.8	1501.7	1501.8	1502.2	1502.5
2°	1503.3	1502.9	1502.0	1501.5	1501.1	1500.9	1500.8	1500.6	1500.7	1501.2	1501.9
2.5°	1502.4	1502.1	1501.3	1500.6	1500.0	1499.8	1499.4	1499.4	1499.8	1500.0	1501.2
3°	1501.5	1501.4	1500.4	1499.4	1498.8	1498.5	1498.1	1498.0	1498.3	1499.3	1500.2
3.5°	1500.8	1500.6	1499.4	1498.1	1497.6	1497.1	1496.7	1496.5	1496.9	1498.2	1499.1
4°	1499.8	1499.3	1497.9	1496.7	1496.1	1495.4	1495.1	1495.2	1495.4	1496.6	1497.7
4.5°	1498.7	1497.9	1496.4	1495.0	1494.3	1493.4	1493.1	1493.5	1493.9	1495.3	1496.1
5°	1497.4	1496.3	1494.7	1493.1	1492.4	1491.6	1491.2	1491.4	1492.0	1493.1	1494.5
5.5°	1495.8	1494.5	1493.0	1490.9	1490.1	1489.4	1488.8	1489.0	1490.3	1491.0	1492.6
6°	1494.2	1492.8	1491.2	1488.9	1487.9	1487.2	1486.6	1486.7	1487.6	1488.9	1490.5
6.5°	1492.4	1490.7	1488.9	1486.7	1485.5	1484.6	1484.0	1484.0	1485.1	1486.7	1488.4
7°	1490.6	1488.7	1486.5	1484.4	1482.8	1482.0	1481.2	1481.5	1482.5	1484.1	1486.0
7.5°	1487.5	1486.3	1483.5	1481.8	1480.1	1479.2	1478.3	1478.3	1479.7	1481.2	1483.3
8°	1485.4	1483.7	1481.0	1479.0	1477.2	1476.1	1475.2	1475.2	1476.6	1478.3	1480.4
8.5°	1482.6	1481.0	1478.1	1476.1	1474.0	1472.9	1472.1	1472.2	1473.5	1475.3	1477.4
9°	1480.1	1478.1	1475.1	1472.7	1470.8	1469.5	1468.7	1469.0	1470.0	1472.0	1474.2
9.5°	1477.2	1475.1	1471.8	1469.4	1467.4	1465.8	1465.1	1465.4	1466.6	1468.5	1471.4
10°	1474.0	1471.9	1468.6	1465.8	1463.7	1462.1	1461.3	1461.5	1463.0	1465.0	1468.1
10.5°	1470.6	1468.5	1465.1	1462.1	1459.9	1457.9	1457.2	1457.7	1459.1	1461.3	1464.4
11°	1467.1	1465.0	1461.5	1458.4	1456.1	1453.8	1453.1	1453.9	1455.0	1457.4	1460.5
11.5°	1463.5	1461.1	1457.6	1454.5	1452.0	1449.6	1448.7	1449.7	1451.0	1453.3	1456.5
12°	1459.6	1457.2	1453.4	1449.7	1447.7	1445.0	1444.2	1445.3	1446.7	1449.0	1452.4
12.5°	1455.8	1453.0	1449.2	1445.5	1443.3	1440.7	1439.7	1440.7	1442.2	1444.6	1447.9
13°	1451.2	1448.8	1444.8	1440.9	1438.6	1435.9	1435.0	1435.9	1437.5	1440.1	1443.3
13.5°	1446.6	1444.5	1440.2	1436.3	1433.9	1431.0	1429.9	1430.8	1432.4	1435.1	1438.7
14°	1442.2	1439.8	1435.5	1431.4	1428.9	1426.1	1424.9	1425.6	1427.5	1429.9	1433.8
14.5°	1437.6	1435.1	1430.7	1426.2	1423.6	1421.1	1419.7	1420.3	1422.2	1424.8	1428.7
15°	1432.4	1429.9	1425.5	1420.9	1418.5	1415.5	1414.1	1414.9	1416.7	1419.5	1423.4
15.5°	1427.3	1424.7	1420.1	1415.3	1413.0	1410.2	1408.5	1409.1	1411.0	1414.0	1418.1
16°	1422.1	1419.3	1414.7	1410.0	1407.2	1404.5	1402.4	1403.5	1405.4	1408.4	1412.6
16.5°	1416.9	1413.9	1409.3	1404.2	1401.3	1398.4	1396.6	1397.7	1399.3	1402.5	1406.9
17°	1411.1	1408.1	1403.3	1398.1	1395.3	1392.5	1390.5	1391.2	1393.4	1396.5	1400.8
17.5°	1405.3	1402.0	1397.5	1392.2	1389.5	1386.1	1384.1	1384.9	1386.9	1390.1	1394.5
18°	1399.4	1395.9	1391.1	1385.9	1383.3	1379.7	1377.8	1378.5	1380.4	1383.7	1388.1
18.5°	1393.1	1389.3	1384.9	1379.4	1376.8	1372.9	1371.1	1371.7	1373.7	1377.1	1381.8
19°	1386.8	1383.0	1378.4	1372.6	1369.9	1366.3	1364.2	1364.6	1366.9	1370.5	1375.0
19.5°	1380.4	1376.6	1372.0	1366.3	1363.3	1359.5	1357.3	1357.6	1359.9	1363.8	1368.4
20°	1373.6	1370.1	1365.0	1359.3	1358.0	1352.4	1350.4	1350.7	1352.8	1356.7	1361.4
20.5°	1366.3	1363.2	1358.0	1352.4	1349.3	1345.4	1342.8	1343.4	1345.6	1349.3	1354.2
21°	1359.2	1355.9	1350.8	1345.2	1342.0	1338.2	1335.3	1336.0	1338.1	1342.0	1346.7
21.5°	1352.1	1348.8	1343.5	1337.8	1334.5	1330.4	1327.4	1328.3	1330.3	1334.5	1339.0
22°	1344.4	1341.3	1336.0	1330.4	1327.1	1322.6	1320.0	1320.7	1322.4	1326.8	1331.5



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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°	1336.7	1333.7	1328.6	1322.6	1319.5	1315.0	1312.3	1312.8	1314.5	1318.7	1323.6
23°	1329.3	1326.0	1320.6	1314.7	1311.5	1306.9	1304.4	1304.5	1306.6	1310.7	1315.6
23.5°	1321.2	1318.0	1312.5	1306.4	1303.4	1298.6	1296.1	1296.0	1298.1	1302.4	1307.2
24°	1312.9	1309.7	1304.2	1298.3	1295.0	1290.2	1287.6	1287.5	1289.5	1294.0	1298.8
24.5°	1304.9	1301.6	1296.0	1289.7	1286.9	1281.8	1279.2	1278.8	1280.9	1285.2	1290.3
25°	1296.3	1293.1	1287.5	1281.1	1278.1	1273.2	1269.9	1270.0	1272.2	1276.3	1281.4
25.5°	1287.4	1284.6	1278.6	1272.5	1269.3	1264.1	1261.3	1261.2	1263.1	1267.7	1273.0
26°	1278.7	1275.8	1269.7	1263.8	1260.6	1254.9	1252.2	1252.1	1254.1	1258.5	1264.1
26.5°	1269.6	1266.7	1260.9	1254.9	1251.6	1246.5	1242.9	1242.7	1244.6	1249.1	1254.5
27°	1260.2	1257.6	1251.7	1245.8	1242.1	1236.6	1233.2	1233.2	1235.3	1239.5	1245.1
27.5°	1250.9	1248.0	1242.3	1236.4	1233.3	1227.5	1224.3	1223.7	1225.7	1229.8	1235.6
28°	1241.4	1238.6	1232.3	1226.9	1223.6	1218.0	1214.1	1213.9	1216.0	1220.4	1225.7
28.5°	1231.7	1228.9	1223.1	1217.0	1214.4	1208.1	1204.4	1204.1	1205.9	1210.1	1215.8
29°	1222.1	1219.3	1213.6	1207.5	1204.3	1198.4	1194.4	1193.7	1196.1	1200.2	1205.7
29.5°	1212.0	1209.3	1203.4	1197.5	1194.4	1188.5	1184.3	1183.9	1186.0	1190.1	1195.6
30°	1201.9	1199.2	1193.4	1187.3	1184.1	1178.5	1173.9	1173.7	1175.7	1179.8	1185.0
30.5°	1191.5	1188.8	1182.8	1177.1	1173.8	1167.9	1163.6	1163.1	1165.0	1169.0	1174.3
31°	1180.8	1178.4	1172.5	1166.7	1163.4	1157.4	1152.8	1152.6	1154.3	1158.5	1163.8
31.5°	1170.1	1167.6	1162.1	1156.0	1152.9	1146.5	1141.9	1141.7	1143.4	1147.6	1152.9
32°	1159.6	1157.1	1151.4	1145.5	1142.2	1135.9	1130.8	1130.8	1132.6	1136.8	1142.1
32.5°	1148.4	1146.1	1140.2	1134.5	1131.5	1125.4	1120.6	1119.9	1121.5	1125.6	1130.9
33°	1137.5	1135.1	1129.5	1123.5	1120.6	1113.9	1109.4	1108.7	1110.4	1114.4	1119.1
33.5°	1126.5	1123.7	1118.1	1112.3	1109.3	1102.7	1098.0	1097.4	1098.8	1102.6	1107.6
34°	1115.0	1112.5	1107.2	1101.3	1098.0	1091.3	1086.8	1085.7	1087.3	1091.3	1096.0
34.5°	1103.1	1100.5	1095.3	1089.8	1086.5	1080.1	1075.2	1074.2	1075.6	1079.2	1084.3
35°	1091.4	1089.3	1083.9	1078.1	1074.8	1068.4	1063.5	1062.4	1063.9	1067.6	1072.7
35.5°	1079.2	1077.2	1072.3	1066.5	1063.3	1056.8	1052.0	1050.5	1052.1	1055.5	1060.5
36°	1067.4	1065.6	1060.3	1054.6	1051.3	1044.5	1039.7	1038.3	1040.1	1043.4	1048.3
36.5°	1055.2	1053.3	1048.1	1042.6	1039.3	1032.8	1027.6	1026.3	1027.8	1031.1	1036.0
37°	1042.8	1041.0	1036.3	1030.2	1026.9	1020.2	1015.3	1013.9	1015.3	1018.5	1023.6
37.5°	1030.2	1028.4	1024.0	1017.8	1014.7	1008.2	1003.1	1001.8	1002.8	1005.9	1010.7
38°	1017.6	1015.9	1011.2	1005.4	1002.0	995.6	990.3	989.5	990.1	993.4	997.9
38.5°	1004.9	1002.9	998.4	992.8	989.4	983.1	977.7	976.8	977.5	980.3	985.0
39°	992.0	990.2	986.2	980.4	977.2	970.2	965.1	963.8	964.7	967.5	972.2
39.5°	978.8	977.2	973.3	967.2	964.4	957.9	952.3	951.0	951.6	954.4	958.8
40°	965.4	964.4	960.3	954.3	951.6	944.7	939.2	938.0	938.5	941.6	945.8
40.5°	952.3	951.2	946.9	941.4	938.5	931.7	926.6	925.1	925.7	928.2	932.0
41°	939.1	938.2	933.9	928.1	925.4	918.5	913.5	911.9	912.3	914.3	918.2
41.5°	924.9	924.7	920.7	914.8	912.4	905.7	900.3	898.8	898.2	899.7	903.3
42°	910.7	910.9	907.4	901.6	899.3	892.4	887.1	884.7	883.3	884.8	888.8
42.5°	895.8	896.1	893.7	887.8	886.0	878.9	872.9	870.1	868.5	869.5	873.1
43°	880.3	881.4	878.7	873.6	871.6	864.9	858.4	854.9	853.0	854.1	857.7
43.5°	864.2	866.0	863.4	858.5	857.2	849.9	843.3	839.6	837.4	838.4	841.8
44°	848.4	849.8	847.9	842.8	841.7	834.7	827.9	823.5	821.3	822.7	826.0
44.5°	832.1	833.5	832.2	827.2	826.5	819.1	812.2	807.8	805.4	806.4	809.5



TEST NUMBER: P640221

CATALOG NUMBER: LCR830RD9FSE040-33W-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	815.9	817.5	816.1	811.2	810.8	803.5	796.3	792.1	789.1	790.2	793.4
45.5°	799.6	801.1	799.6	795.5	794.7	787.5	780.8	775.8	773.1	773.9	777.2
46°	783.2	784.5	783.3	778.9	779.3	771.4	764.4	759.4	756.9	757.6	760.8
46.5°	766.1	768.0	766.7	762.7	762.2	755.1	748.0	743.4	740.7	741.3	744.0
47°	749.6	751.5	750.1	745.7	746.0	738.7	731.6	727.3	724.0	724.7	727.4
47.5°	732.7	734.8	733.1	728.8	729.4	722.3	715.5	711.2	708.0	708.5	710.9
48°	716.4	718.2	716.4	712.0	713.3	705.8	698.7	695.1	692.1	692.3	694.4
48.5°	699.9	701.4	699.6	695.6	696.6	689.3	681.9	679.0	676.2	676.1	677.9
49°	683.1	684.7	682.6	678.4	680.0	672.8	665.1	662.8	660.2	659.9	661.4
49.5°	666.6	668.0	666.6	662.0	663.4	656.3	648.4	646.7	644.3	643.6	644.9
50°	649.7	651.4	649.3	644.9	646.7	639.8	633.1	629.7	627.0	626.5	627.8
50.5°	633.0	634.8	632.5	628.0	629.8	623.3	616.7	613.0	610.8	610.0	611.2
51°	616.7	618.0	616.0	611.3	613.3	606.2	600.3	596.8	594.7	593.8	594.2
51.5°	600.2	601.6	599.4	595.0	596.6	589.9	584.1	580.7	579.1	577.8	577.8
52°	583.9	585.4	583.2	578.2	580.4	573.5	567.6	564.8	562.6	561.7	561.5
52.5°	567.6	569.3	566.5	561.8	563.6	557.0	551.3	548.6	546.6	545.4	545.1
53°	551.6	552.8	550.1	545.4	547.1	540.7	535.3	532.6	531.0	529.4	528.4
53.5°	535.4	536.7	534.0	529.1	530.4	524.2	519.5	516.9	515.2	513.5	512.3
54°	519.2	520.6	517.5	512.8	514.2	508.3	503.6	501.3	499.4	497.8	496.4
54.5°	503.8	505.0	502.0	496.9	498.1	492.5	487.7	486.0	483.9	482.2	480.4
55°	488.1	489.2	486.1	480.8	482.4	477.0	472.3	470.7	469.1	466.6	464.7
55.5°	471.9	474.1	470.5	465.0	466.3	461.4	456.8	455.5	453.5	451.5	448.8
56°	457.4	458.5	455.2	449.7	450.7	445.9	441.9	440.3	438.5	436.1	433.3
56.5°	442.0	443.4	440.0	434.5	435.2	430.5	426.6	425.3	423.5	421.1	418.2
57°	426.7	428.1	424.6	419.0	420.0	415.4	411.8	410.6	409.1	405.9	403.0
57.5°	411.3	413.6	409.7	403.9	404.7	400.4	397.0	396.2	394.3	391.3	388.0
58°	397.5	398.7	394.9	389.3	390.1	385.9	382.7	382.2	380.0	376.9	373.1
58.5°	382.8	384.3	380.5	374.7	375.6	371.3	368.2	367.7	365.9	362.7	358.9
59°	368.3	369.6	366.1	359.8	361.1	357.2	354.3	353.6	352.2	348.5	344.2
59.5°	353.6	355.7	351.9	346.0	347.0	343.0	340.1	339.7	337.9	334.5	330.0
60°	339.8	341.6	338.0	332.3	333.0	329.1	326.5	326.2	324.2	320.5	315.9
60.5°	325.1	328.3	322.6	318.9	319.3	315.8	312.9	312.8	310.9	307.1	302.2
61°	311.8	314.9	309.6	305.6	305.9	302.3	299.8	299.4	298.0	293.8	288.4
61.5°	298.5	301.6	296.6	292.2	292.8	289.1	286.9	286.6	284.6	280.7	275.1
62°	285.1	288.2	283.6	278.8	279.9	276.5	274.2	273.9	272.1	267.6	262.2
62.5°	271.8	274.8	270.6	265.5	267.2	263.9	261.4	261.4	258.9	254.9	249.2
63°	258.6	261.5	258.1	252.6	254.6	251.3	249.2	248.9	245.6	242.2	236.3
63.5°	245.7	248.9	245.8	240.9	242.5	239.2	237.1	236.7	232.8	229.9	224.2
64°	232.4	236.7	233.7	229.1	230.7	227.4	225.5	225.2	220.2	217.9	212.0
64.5°	219.5	224.8	222.0	217.3	219.2	216.0	213.8	213.4	207.4	205.7	200.3
65°	206.6	212.7	210.5	206.1	207.9	204.9	202.9	202.1	195.1	193.8	188.9
65.5°	194.1	201.0	199.0	195.1	196.9	193.8	191.7	190.9	183.2	182.4	177.7
66°	181.4	189.3	188.0	184.1	186.0	183.1	181.0	179.5	171.7	170.9	166.6
66.5°	169.7	178.1	177.3	173.7	175.6	173.0	170.7	168.7	160.9	159.9	156.0
67°	158.3	166.8	166.8	163.5	165.6	163.0	160.8	158.1	150.5	149.2	146.0



TEST NUMBER: P640221

CATALOG NUMBER: LCR830RD9FSE040-33W-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	147.8	156.2	156.9	153.8	155.8	153.2	150.8	147.8	140.2	139.2	136.3
68°	137.5	145.8	147.0	144.4	146.1	143.7	141.4	137.8	130.4	129.3	126.5
68.5°	127.8	135.6	137.5	135.1	137.3	134.9	132.4	128.1	121.1	120.1	117.4
69°	118.2	126.0	128.3	126.4	128.4	126.0	123.6	119.1	112.1	111.1	108.7
69.5°	108.7	116.7	119.5	117.8	119.8	117.6	115.0	110.5	103.3	102.4	100.3
70°	99.5	107.9	111.2	109.7	111.8	109.6	106.9	102.2	95.2	94.4	92.4
70.5°	90.9	99.6	103.0	102.0	104.1	102.1	99.3	94.4	88.2	87.6	85.5
71°	82.6	91.5	95.2	94.5	96.6	94.6	92.0	88.0	81.2	80.8	78.6
71.5°	75.0	84.0	88.0	87.4	89.6	88.3	85.8	81.5	74.2	74.0	71.7
72°	67.8	76.9	81.0	80.8	83.4	82.1	79.6	75.0	67.2	67.2	64.9
72.5°	61.5	70.3	74.2	74.5	77.2	75.8	73.3	68.5	60.3	60.5	59.5
73°	55.6	64.1	68.3	68.6	71.1	69.6	67.1	62.0	54.6	55.3	54.3
73.5°	50.3	58.6	62.7	63.1	64.9	63.4	60.9	56.7	50.1	50.7	49.7
74°	46.5	53.7	57.5	58.2	59.8	58.4	56.0	52.1	46.5	46.5	45.7
74.5°	43.1	49.3	52.7	53.4	55.1	53.8	51.4	47.8	42.7	42.8	42.2
75°	40.2	45.4	48.4	49.2	50.8	49.6	47.3	44.0	39.8	39.6	39.5
75.5°	38.2	41.8	44.7	45.4	46.9	45.8	43.6	40.6	37.7	37.3	37.4
76°	36.2	38.7	41.3	42.1	43.4	42.4	40.4	37.9	35.8	35.3	35.5
76.5°	34.3	36.4	38.6	39.3	40.4	39.6	38.1	35.9	33.8	33.4	33.7
77°	32.6	34.5	36.7	37.3	38.1	37.5	36.2	34.0	32.0	31.5	31.9
77.5°	30.9	32.5	34.9	35.5	36.3	35.7	34.5	32.2	30.3	29.8	30.2
78°	29.2	30.8	33.1	33.8	34.5	34.0	32.7	30.4	28.5	28.1	28.5
78.5°	27.5	29.1	31.5	32.2	32.8	32.2	31.0	28.6	26.8	26.3	26.8
79°	25.7	27.4	29.8	30.5	31.1	30.5	29.3	26.9	25.2	24.7	25.2
79.5°	24.1	25.7	28.1	28.9	29.5	28.9	27.7	25.3	23.5	23.0	23.6
80°	22.5	24.1	26.5	27.3	27.8	27.3	26.0	23.7	22.0	21.5	22.0
80.5°	21.0	22.5	24.8	25.6	26.3	25.7	24.4	22.0	20.4	19.9	20.5
81°	19.5	21.0	23.2	24.1	24.7	24.2	22.9	20.5	18.9	18.4	19.0
81.5°	17.9	19.4	21.7	22.6	23.2	22.7	21.3	19.0	17.4	16.9	17.5
82°	16.5	17.9	20.2	21.1	21.7	21.2	19.8	17.4	15.9	15.3	16.1
82.5°	15.0	16.4	18.7	19.6	20.2	19.7	18.3	15.9	14.4	13.9	14.7
83°	13.6	15.0	17.2	18.2	18.7	18.3	16.9	14.5	13.0	12.5	13.3
83.5°	12.2	13.6	15.8	16.8	17.3	16.9	15.5	13.1	11.6	11.1	12.0
84°	10.9	12.2	14.5	15.4	15.9	15.4	14.0	11.7	10.3	9.8	10.7
84.5°	9.5	10.8	13.1	14.0	14.6	14.1	12.7	10.4	9.1	8.6	9.4
85°	8.2	9.5	11.8	12.6	13.2	12.7	11.4	9.2	7.9	7.5	8.2
85.5°	7.0	8.2	10.5	11.3	11.8	11.4	10.1	8.0	6.7	6.4	7.0
86°	6.0	7.2	9.3	10.0	10.5	10.1	8.9	6.9	5.5	5.3	5.8
86.5°	4.9	6.0	8.1	8.7	9.3	8.8	7.7	5.7	4.4	4.2	4.5
87°	4.1	5.1	6.9	7.5	8.0	7.6	6.5	4.5	3.5	3.2	3.4
87.5°	3.2	4.1	5.7	6.2	6.8	6.3	5.3	3.6	2.6	2.3	2.3
88°	2.5	3.2	4.5	5.0	5.5	5.1	4.1	2.7	1.8	1.4	1.1
88.5°	1.7	2.5	3.4	3.8	4.2	3.8	3.0	1.8	1.0	0.6	0.3
89°	1.0	1.7	2.6	2.9	3.1	2.7	1.9	1.0	0.3	0.2	0.1
89.5°	0.3	1.0	1.8	2.0	1.9	1.5	0.8	0.3	0.2	0.2	0.1



TEST NUMBER: P640221
 CATALOG NUMBER: LCR830RD9FSE040-33W-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.1	0.2	1.0	1.0	0.8	0.5	0.2	0.2	0.2	0.2	0.1
90.5°	0.1	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.1	0.2	0.1
91°	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.1
91.5°	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.1
92°	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1
92.5°	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1
93°	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1
93.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
94°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
94.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
95°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
95.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
96°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
96.5°	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
97°	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
97.5°	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
98°	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
98.5°	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
99°	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1
99.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1
100°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1
100.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1
101°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1
101.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1
102°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1
102.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1
103°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	0.1
103.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.1
104°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.1
104.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.1
105°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.1
105.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1
106°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1
106.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2
107°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2
107.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2
108°	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.2
108.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
109°	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
109.5°	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
110°	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
110.5°	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
111°	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
111.5°	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
112°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2



TEST NUMBER: P640221

CATALOG NUMBER: LCR830RD9FSE040-33W-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
113°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
113.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2
114°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2
114.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2
115°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2
115.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.2
116°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.2
116.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.2
117°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3
117.5°	0.4	0.3	0.3	0.3	0.2	0.2	0.3	0.3	0.3	0.3	0.3
118°	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
118.5°	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
119°	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
119.5°	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
120°	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
120.5°	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
121°	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.3
121.5°	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.3
122°	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.3	0.3
122.5°	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.3
123°	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.3
123.5°	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.3
124°	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4
124.5°	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4
125°	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
125.5°	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
126°	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
126.5°	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
127°	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
127.5°	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
128°	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.4	0.4
128.5°	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.4	0.4
129°	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.4
129.5°	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.4
130°	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.4
130.5°	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.4
131°	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.4
131.5°	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.5
132°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
132.5°	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
133°	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
133.5°	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
134°	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
134.5°	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5



TEST NUMBER: P640221
 CATALOG NUMBER: LCR830RD9FSE040-33W-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5
135.5°	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.5
136°	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.6	0.5
136.5°	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.6	0.6	0.5
137°	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.6	0.6	0.6	0.5
137.5°	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.6	0.6	0.6	0.5
138°	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.6	0.6	0.6	0.6
138.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
139°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
139.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
140°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
140.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
141°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
141.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
142°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.6
142.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.6
143°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.6
143.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.6
144°	0.7	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7
144.5°	0.7	0.7	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7
145°	0.7	0.7	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7
145.5°	0.7	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7
146°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
146.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
147°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
147.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
148°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
148.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
149°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
149.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
150°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.7
150.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8
151°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8
151.5°	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8
152°	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
152.5°	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
153°	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
153.5°	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
154°	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
154.5°	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
155°	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
155.5°	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
156°	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
156.5°	0.8	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
157°	0.8	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8



TEST NUMBER: P640221

CATALOG NUMBER: LCR830RD9FSE040-33W-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.8	0.9	0.9	0.8
158°	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.9	0.9	0.9	0.9
158.5°	0.8	0.8	0.7	0.7	0.8	0.8	0.8	0.9	0.9	0.9	0.9
159°	0.8	0.8	0.7	0.7	0.8	0.8	0.9	0.9	0.9	0.9	0.9
159.5°	0.8	0.8	0.7	0.7	0.8	0.9	0.9	0.9	0.9	0.9	0.9
160°	0.8	0.8	0.7	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9
160.5°	0.8	0.8	0.7	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9
161°	0.8	0.8	0.7	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9
161.5°	0.8	0.8	0.7	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9
162°	0.8	0.8	0.7	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9
162.5°	0.8	0.8	0.7	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9
163°	0.8	0.8	0.7	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9
163.5°	0.8	0.8	0.7	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9
164°	0.8	0.8	0.8	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9
164.5°	0.8	0.8	0.8	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9
165°	0.8	0.8	0.8	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9
165.5°	0.8	0.8	0.8	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9
166°	0.8	0.8	0.8	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9
166.5°	0.8	0.8	0.8	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9
167°	0.8	0.8	0.8	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9
167.5°	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9
168°	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9
168.5°	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9
169°	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9
169.5°	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9
170°	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9
170.5°	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9
171°	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9
171.5°	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9
172°	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9
172.5°	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9
173°	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9
173.5°	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9
174°	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9
174.5°	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9
175°	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9
175.5°	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9
176°	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9
176.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
177°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
177.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
178°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
178.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
179°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
179.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9



TEST NUMBER: P640221
CATALOG NUMBER: LCR830RD9FSE040-33W-2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
180°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9

TEST NUMBER: P640221

CATALOG NUMBER: LCR830RD9FSE040-33W-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1503.6	1503.6	1503.6	1503.6	1503.6	1503.6
0.5°	1504.0	1503.6	1503.4	1503.7	1503.9	1504.0
1°	1503.6	1503.4	1503.6	1503.9	1504.1	1503.6
1.5°	1503.2	1502.6	1503.4	1503.9	1503.9	1503.5
2°	1502.7	1502.2	1503.1	1503.7	1503.6	1503.3
2.5°	1502.1	1502.0	1502.5	1503.3	1503.1	1502.4
3°	1501.5	1501.3	1501.7	1502.7	1502.5	1501.5
3.5°	1500.6	1500.2	1501.0	1501.6	1501.7	1500.8
4°	1499.1	1499.2	1500.4	1500.7	1500.8	1499.8
4.5°	1497.8	1497.9	1498.8	1499.5	1499.7	1498.7
5°	1496.1	1496.6	1497.3	1498.2	1498.3	1497.4
5.5°	1494.3	1494.8	1495.8	1496.7	1496.9	1495.8
6°	1492.3	1492.9	1494.1	1495.1	1495.1	1494.2
6.5°	1490.3	1490.5	1492.1	1493.2	1493.1	1492.4
7°	1488.0	1488.0	1489.9	1491.1	1491.0	1490.6
7.5°	1485.4	1486.0	1487.8	1488.9	1488.8	1487.5
8°	1482.6	1483.2	1485.3	1486.5	1486.5	1485.4
8.5°	1480.3	1480.8	1482.7	1483.9	1483.6	1482.6
9°	1477.1	1477.8	1479.7	1481.3	1480.8	1480.1
9.5°	1474.1	1474.5	1476.7	1478.3	1478.1	1477.2
10°	1470.6	1471.3	1473.5	1475.0	1474.9	1474.0
10.5°	1467.3	1468.0	1470.0	1471.3	1471.7	1470.6
11°	1463.7	1464.3	1466.6	1467.9	1468.3	1467.1
11.5°	1459.6	1460.6	1462.5	1464.2	1464.4	1463.5
12°	1455.5	1456.7	1458.5	1460.5	1460.7	1459.6
12.5°	1451.3	1452.3	1454.6	1456.4	1456.4	1455.8
13°	1446.7	1447.6	1450.4	1452.4	1452.3	1451.2
13.5°	1442.5	1443.2	1445.9	1447.9	1447.9	1446.6
14°	1437.9	1438.4	1441.3	1443.3	1443.2	1442.2
14.5°	1433.1	1433.6	1436.4	1438.5	1438.5	1437.6
15°	1427.6	1428.3	1431.2	1433.8	1433.8	1432.4
15.5°	1422.6	1423.4	1426.0	1428.3	1428.5	1427.3
16°	1417.1	1417.9	1421.0	1423.2	1423.3	1422.1
16.5°	1411.3	1412.4	1415.3	1417.4	1417.9	1416.9
17°	1405.6	1406.3	1409.5	1411.8	1412.3	1411.1
17.5°	1399.8	1400.3	1403.5	1405.9	1406.4	1405.3
18°	1393.4	1394.3	1397.4	1400.0	1400.4	1399.4
18.5°	1387.1	1387.7	1391.0	1393.7	1394.2	1393.1
19°	1380.4	1381.3	1384.5	1387.2	1387.6	1386.8
19.5°	1373.8	1374.7	1377.6	1380.5	1381.0	1380.4
20°	1367.0	1367.9	1370.8	1373.9	1374.6	1373.6
20.5°	1359.8	1360.7	1363.9	1366.9	1367.3	1366.3
21°	1352.5	1353.1	1356.6	1359.9	1360.2	1359.2
21.5°	1345.0	1345.8	1349.1	1352.2	1353.5	1352.1
22°	1337.1	1338.3	1341.3	1344.9	1345.3	1344.4

TEST NUMBER: P640221

CATALOG NUMBER: LCR830RD9FSE040-33W-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1329.3	1330.3	1333.6	1337.3	1337.5	1336.7
23°	1321.6	1322.2	1325.7	1329.1	1330.1	1329.3
23.5°	1313.4	1313.8	1317.6	1321.3	1322.2	1321.2
24°	1305.0	1305.6	1309.3	1312.8	1313.9	1312.9
24.5°	1296.5	1296.8	1300.6	1304.5	1305.1	1304.9
25°	1287.8	1288.3	1292.0	1295.8	1296.8	1296.3
25.5°	1279.1	1279.2	1283.0	1286.9	1288.1	1287.4
26°	1269.9	1271.3	1273.9	1278.1	1279.4	1278.7
26.5°	1260.6	1260.8	1265.0	1268.8	1270.1	1269.6
27°	1251.3	1251.6	1255.3	1259.6	1261.1	1260.2
27.5°	1241.9	1241.6	1245.7	1250.0	1251.9	1250.9
28°	1232.0	1231.8	1235.5	1240.3	1241.9	1241.4
28.5°	1221.9	1221.9	1225.7	1230.2	1232.3	1231.7
29°	1211.9	1211.7	1216.0	1220.3	1222.1	1222.1
29.5°	1201.4	1201.3	1205.3	1210.0	1212.2	1212.0
30°	1191.2	1190.9	1195.0	1199.7	1201.6	1201.9
30.5°	1180.6	1180.3	1184.0	1189.2	1191.1	1191.5
31°	1170.0	1169.4	1173.3	1178.3	1181.0	1180.8
31.5°	1159.0	1158.3	1162.3	1167.5	1170.3	1170.1
32°	1147.9	1147.2	1150.7	1156.5	1159.2	1159.6
32.5°	1136.8	1136.0	1139.5	1145.3	1148.3	1148.4
33°	1125.4	1124.3	1128.2	1133.7	1137.1	1137.5
33.5°	1113.9	1112.6	1116.6	1122.2	1125.7	1126.5
34°	1102.1	1100.6	1104.5	1110.5	1114.0	1115.0
34.5°	1090.3	1088.6	1092.5	1098.7	1102.3	1103.1
35°	1078.2	1076.2	1080.5	1086.2	1090.4	1091.4
35.5°	1066.0	1064.0	1068.2	1074.3	1078.7	1079.2
36°	1053.7	1051.5	1055.2	1061.9	1066.2	1067.4
36.5°	1040.9	1038.8	1042.9	1049.3	1053.9	1055.2
37°	1028.2	1026.0	1030.1	1036.3	1041.2	1042.8
37.5°	1015.6	1013.0	1017.0	1023.6	1028.4	1030.2
38°	1002.7	999.7	1003.1	1010.5	1015.5	1017.6
38.5°	989.4	986.4	990.1	997.2	1002.8	1004.9
39°	976.2	973.3	977.0	984.1	989.9	992.0
39.5°	962.9	959.7	963.3	970.7	976.4	978.8
40°	949.7	945.7	949.6	957.0	963.0	965.4
40.5°	936.0	931.6	935.9	943.5	949.7	952.3
41°	921.6	917.2	921.1	929.4	936.2	939.1
41.5°	906.8	901.9	906.3	914.7	921.9	924.9
42°	891.7	886.7	890.9	899.7	907.0	910.7
42.5°	876.4	871.4	875.4	884.3	891.5	895.8
43°	860.9	855.4	859.1	868.6	875.8	880.3
43.5°	844.8	839.2	843.5	852.5	860.0	864.2
44°	828.7	822.5	826.0	836.1	843.7	848.4
44.5°	812.6	806.5	810.0	819.7	827.6	832.1

TEST NUMBER: P640221

CATALOG NUMBER: LCR830RD9FSE040-33W-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	796.2	789.7	793.1	803.0	811.2	815.9
45.5°	779.8	772.6	776.1	786.3	794.8	799.6
46°	762.8	755.8	758.9	769.4	778.2	783.2
46.5°	746.2	738.8	742.1	752.1	761.3	766.1
47°	729.7	721.3	724.5	735.1	744.6	749.6
47.5°	713.2	704.5	707.4	717.9	727.7	732.7
48°	696.3	687.0	690.2	701.0	710.9	716.4
48.5°	679.3	669.8	672.8	683.7	694.3	699.9
49°	662.3	652.4	655.8	666.2	677.5	683.1
49.5°	645.3	635.5	638.2	649.2	660.4	666.6
50°	628.5	618.3	620.6	631.8	643.6	649.7
50.5°	611.3	600.6	604.0	614.8	626.9	633.0
51°	594.4	583.7	587.0	597.6	610.3	616.7
51.5°	577.2	566.9	570.1	580.8	593.1	600.2
52°	560.9	550.0	552.8	564.3	576.9	583.9
52.5°	543.8	533.2	536.4	547.6	560.3	567.6
53°	527.3	516.4	519.8	530.9	543.9	551.6
53.5°	510.5	499.7	503.6	514.2	527.1	535.4
54°	494.5	483.6	486.5	497.9	511.2	519.2
54.5°	477.8	467.8	470.9	482.0	495.2	503.8
55°	462.0	452.0	455.2	466.2	479.3	488.1
55.5°	446.4	435.7	439.5	450.1	463.5	471.9
56°	430.1	420.2	423.8	434.6	448.2	457.4
56.5°	414.3	405.1	408.8	419.3	432.4	442.0
57°	399.0	389.6	393.3	404.1	417.5	426.7
57.5°	384.5	374.6	378.1	388.9	402.3	411.3
58°	368.9	360.1	364.0	374.5	387.6	397.5
58.5°	354.2	345.5	349.2	359.7	372.4	382.8
59°	339.7	331.3	335.4	345.1	358.5	368.3
59.5°	325.7	317.6	327.0	330.9	344.1	353.6
60°	311.1	303.8	312.0	317.3	330.2	339.8
60.5°	297.4	290.1	296.9	303.8	316.5	325.1
61°	283.9	276.3	281.8	290.2	302.8	311.8
61.5°	270.9	262.6	266.8	276.7	289.1	298.5
62°	257.5	250.2	254.0	263.2	275.4	285.1
62.5°	244.7	237.5	241.1	250.2	261.7	271.8
63°	232.0	225.3	229.1	238.0	249.1	258.6
63.5°	219.8	213.3	217.2	225.6	236.6	245.7
64°	207.9	201.7	205.6	213.8	224.4	232.4
64.5°	196.3	190.2	194.0	202.2	212.2	219.5
65°	185.0	179.3	183.0	190.9	200.7	206.6
65.5°	174.0	168.5	172.1	179.6	189.3	194.1
66°	163.3	157.9	161.7	168.9	177.9	181.4
66.5°	152.8	147.7	151.5	158.5	166.7	169.7
67°	142.9	138.0	141.5	148.3	155.6	158.3



TEST NUMBER: P640221

CATALOG NUMBER: LCR830RD9FSE040-33W-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	133.3	128.5	131.9	138.6	145.1	147.8
68°	124.0	119.4	122.9	129.1	134.9	137.5
68.5°	115.1	110.6	114.0	120.0	125.2	127.8
69°	106.3	102.3	105.4	111.2	116.0	118.2
69.5°	98.2	94.2	97.2	102.7	107.0	108.7
70°	90.5	86.7	89.6	94.9	98.7	99.5
70.5°	83.8	79.6	82.3	87.2	90.6	90.9
71°	77.1	72.8	75.5	80.0	82.8	82.6
71.5°	70.3	66.7	69.1	73.3	75.9	75.0
72°	63.6	61.0	63.2	67.1	69.2	67.8
72.5°	58.2	55.7	57.7	61.3	63.2	61.5
73°	53.2	50.9	52.7	55.9	57.5	55.6
73.5°	48.8	46.9	48.3	51.1	52.7	50.3
74°	45.0	43.4	44.5	46.8	48.1	46.5
74.5°	41.8	40.4	41.2	43.1	44.1	43.1
75°	39.2	38.3	38.8	39.9	40.5	40.2
75.5°	37.3	36.4	36.9	37.8	37.7	38.2
76°	35.4	34.5	35.0	35.9	35.6	36.2
76.5°	33.6	32.6	33.3	34.0	33.8	34.3
77°	31.8	30.9	31.6	32.3	32.0	32.6
77.5°	30.1	29.3	29.9	30.6	30.3	30.9
78°	28.4	27.7	28.3	28.9	28.5	29.2
78.5°	26.8	26.1	26.6	27.2	26.8	27.5
79°	25.2	24.5	25.0	25.5	25.1	25.7
79.5°	23.6	22.9	23.4	23.9	23.4	24.1
80°	22.1	21.4	21.8	22.3	21.8	22.5
80.5°	20.6	19.9	20.4	20.8	20.3	21.0
81°	19.1	18.4	18.9	19.3	18.8	19.5
81.5°	17.6	17.0	17.4	17.8	17.2	17.9
82°	16.2	15.5	16.0	16.3	15.8	16.5
82.5°	14.8	14.2	14.6	15.0	14.3	15.0
83°	13.4	12.8	13.2	13.6	12.9	13.6
83.5°	12.1	11.5	11.9	12.2	11.5	12.2
84°	10.7	10.2	10.6	10.9	10.2	10.9
84.5°	9.5	8.9	9.3	9.7	9.0	9.5
85°	8.2	7.6	8.0	8.5	7.8	8.2
85.5°	6.9	6.3	6.7	7.3	6.7	7.0
86°	5.7	5.1	5.5	6.1	5.6	6.0
86.5°	4.4	3.9	4.3	4.9	4.7	4.9
87°	3.2	3.0	3.1	3.7	3.7	4.1
87.5°	2.0	2.0	2.3	2.8	2.9	3.2
88°	0.9	1.1	1.6	2.0	2.0	2.5
88.5°	0.2	0.2	0.9	1.1	1.2	1.7
89°	0.1	0.1	0.1	0.2	0.4	1.0
89.5°	0.1	0.1	0.1	0.1	0.2	0.3



TEST NUMBER: P640221
 CATALOG NUMBER: LCR830RD9FSE040-33W-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.1	0.1	0.1	0.1	0.2	0.1
90.5°	0.1	0.1	0.1	0.1	0.2	0.1
91°	0.1	0.1	0.1	0.1	0.2	0.1
91.5°	0.1	0.1	0.1	0.1	0.2	0.1
92°	0.1	0.1	0.1	0.1	0.2	0.1
92.5°	0.1	0.1	0.1	0.1	0.2	0.1
93°	0.1	0.1	0.1	0.1	0.1	0.1
93.5°	0.1	0.1	0.1	0.1	0.1	0.1
94°	0.1	0.1	0.1	0.1	0.1	0.1
94.5°	0.1	0.1	0.1	0.1	0.1	0.1
95°	0.1	0.1	0.1	0.1	0.1	0.1
95.5°	0.1	0.1	0.1	0.1	0.1	0.1
96°	0.1	0.1	0.1	0.1	0.1	0.1
96.5°	0.1	0.1	0.1	0.1	0.1	0.2
97°	0.1	0.1	0.1	0.1	0.1	0.2
97.5°	0.1	0.1	0.1	0.1	0.1	0.2
98°	0.1	0.2	0.1	0.1	0.1	0.2
98.5°	0.1	0.2	0.1	0.1	0.1	0.2
99°	0.1	0.2	0.2	0.2	0.2	0.2
99.5°	0.1	0.2	0.2	0.2	0.2	0.2
100°	0.1	0.2	0.2	0.2	0.2	0.2
100.5°	0.1	0.2	0.2	0.2	0.2	0.2
101°	0.1	0.2	0.2	0.2	0.2	0.2
101.5°	0.1	0.2	0.2	0.2	0.2	0.2
102°	0.1	0.2	0.2	0.2	0.2	0.2
102.5°	0.1	0.2	0.2	0.2	0.2	0.2
103°	0.1	0.2	0.2	0.2	0.2	0.2
103.5°	0.1	0.2	0.2	0.2	0.2	0.2
104°	0.1	0.2	0.2	0.2	0.2	0.2
104.5°	0.1	0.2	0.2	0.2	0.2	0.2
105°	0.1	0.2	0.2	0.2	0.2	0.2
105.5°	0.1	0.2	0.2	0.2	0.2	0.2
106°	0.1	0.2	0.2	0.2	0.2	0.2
106.5°	0.1	0.2	0.2	0.2	0.2	0.2
107°	0.1	0.2	0.2	0.2	0.2	0.2
107.5°	0.2	0.2	0.2	0.2	0.2	0.2
108°	0.2	0.2	0.2	0.2	0.2	0.2
108.5°	0.2	0.2	0.2	0.2	0.2	0.2
109°	0.2	0.2	0.2	0.2	0.2	0.3
109.5°	0.2	0.2	0.2	0.2	0.2	0.3
110°	0.2	0.2	0.2	0.2	0.2	0.3
110.5°	0.2	0.2	0.2	0.2	0.2	0.3
111°	0.2	0.3	0.2	0.2	0.3	0.3
111.5°	0.2	0.3	0.3	0.3	0.3	0.3
112°	0.2	0.3	0.3	0.3	0.3	0.3



TEST NUMBER: P640221

CATALOG NUMBER: LCR830RD9FSE040-33W-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	0.2	0.3	0.3	0.3	0.3	0.3
113°	0.2	0.3	0.3	0.3	0.3	0.3
113.5°	0.2	0.3	0.3	0.3	0.3	0.3
114°	0.2	0.3	0.3	0.3	0.3	0.3
114.5°	0.2	0.3	0.3	0.3	0.3	0.3
115°	0.2	0.3	0.3	0.3	0.3	0.3
115.5°	0.2	0.3	0.3	0.3	0.3	0.3
116°	0.2	0.3	0.3	0.3	0.3	0.3
116.5°	0.2	0.3	0.3	0.3	0.3	0.3
117°	0.2	0.3	0.3	0.3	0.3	0.3
117.5°	0.3	0.3	0.3	0.3	0.3	0.4
118°	0.3	0.3	0.3	0.3	0.3	0.4
118.5°	0.3	0.3	0.3	0.3	0.3	0.4
119°	0.3	0.3	0.3	0.3	0.3	0.4
119.5°	0.3	0.3	0.3	0.3	0.4	0.4
120°	0.3	0.4	0.3	0.4	0.4	0.4
120.5°	0.3	0.4	0.4	0.4	0.4	0.4
121°	0.3	0.4	0.4	0.4	0.4	0.4
121.5°	0.3	0.4	0.4	0.4	0.4	0.4
122°	0.3	0.4	0.4	0.4	0.4	0.4
122.5°	0.3	0.4	0.4	0.4	0.4	0.4
123°	0.3	0.4	0.4	0.4	0.4	0.4
123.5°	0.3	0.4	0.4	0.4	0.4	0.4
124°	0.3	0.4	0.4	0.4	0.4	0.4
124.5°	0.4	0.4	0.4	0.4	0.4	0.4
125°	0.4	0.4	0.4	0.4	0.4	0.5
125.5°	0.4	0.4	0.4	0.4	0.4	0.5
126°	0.4	0.4	0.4	0.4	0.4	0.5
126.5°	0.4	0.4	0.4	0.4	0.4	0.5
127°	0.4	0.4	0.4	0.4	0.5	0.5
127.5°	0.4	0.5	0.4	0.4	0.5	0.5
128°	0.4	0.5	0.5	0.5	0.5	0.5
128.5°	0.4	0.5	0.5	0.5	0.5	0.5
129°	0.4	0.5	0.5	0.5	0.5	0.5
129.5°	0.4	0.5	0.5	0.5	0.5	0.5
130°	0.4	0.5	0.5	0.5	0.5	0.5
130.5°	0.4	0.5	0.5	0.5	0.5	0.5
131°	0.4	0.5	0.5	0.5	0.5	0.5
131.5°	0.5	0.5	0.5	0.5	0.5	0.5
132°	0.5	0.5	0.5	0.5	0.5	0.5
132.5°	0.5	0.5	0.5	0.5	0.5	0.6
133°	0.5	0.5	0.5	0.5	0.5	0.6
133.5°	0.5	0.5	0.5	0.5	0.5	0.6
134°	0.5	0.5	0.5	0.5	0.5	0.6
134.5°	0.5	0.5	0.5	0.5	0.6	0.6



TEST NUMBER: P640221
 CATALOG NUMBER: LCR830RD9FSE040-33W-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.5	0.5	0.5	0.5	0.6	0.6
135.5°	0.5	0.6	0.6	0.6	0.6	0.6
136°	0.5	0.6	0.6	0.6	0.6	0.6
136.5°	0.5	0.6	0.6	0.6	0.6	0.6
137°	0.5	0.6	0.6	0.6	0.6	0.6
137.5°	0.5	0.6	0.6	0.6	0.6	0.6
138°	0.6	0.6	0.6	0.6	0.6	0.6
138.5°	0.6	0.6	0.6	0.6	0.6	0.6
139°	0.6	0.6	0.6	0.6	0.6	0.6
139.5°	0.6	0.6	0.6	0.6	0.6	0.6
140°	0.6	0.6	0.6	0.6	0.6	0.6
140.5°	0.6	0.6	0.6	0.6	0.6	0.6
141°	0.6	0.6	0.6	0.6	0.6	0.6
141.5°	0.6	0.6	0.6	0.6	0.6	0.6
142°	0.6	0.6	0.6	0.6	0.6	0.6
142.5°	0.6	0.6	0.6	0.6	0.6	0.6
143°	0.6	0.6	0.6	0.6	0.6	0.6
143.5°	0.6	0.6	0.6	0.6	0.6	0.6
144°	0.7	0.6	0.6	0.6	0.6	0.7
144.5°	0.7	0.6	0.6	0.6	0.6	0.7
145°	0.7	0.6	0.6	0.6	0.7	0.7
145.5°	0.7	0.6	0.6	0.7	0.7	0.7
146°	0.7	0.7	0.7	0.7	0.7	0.7
146.5°	0.7	0.7	0.7	0.7	0.7	0.7
147°	0.7	0.7	0.7	0.7	0.7	0.7
147.5°	0.7	0.7	0.7	0.7	0.7	0.7
148°	0.7	0.7	0.7	0.7	0.7	0.7
148.5°	0.7	0.7	0.7	0.7	0.7	0.7
149°	0.7	0.7	0.7	0.7	0.7	0.7
149.5°	0.7	0.7	0.7	0.7	0.7	0.7
150°	0.7	0.7	0.7	0.7	0.7	0.7
150.5°	0.7	0.7	0.7	0.7	0.7	0.7
151°	0.8	0.7	0.7	0.7	0.7	0.7
151.5°	0.8	0.7	0.7	0.7	0.7	0.7
152°	0.8	0.7	0.7	0.7	0.7	0.7
152.5°	0.8	0.7	0.7	0.7	0.7	0.7
153°	0.8	0.7	0.7	0.7	0.7	0.7
153.5°	0.8	0.7	0.7	0.7	0.7	0.7
154°	0.8	0.7	0.7	0.7	0.7	0.7
154.5°	0.8	0.7	0.7	0.7	0.7	0.7
155°	0.8	0.7	0.7	0.7	0.7	0.7
155.5°	0.8	0.7	0.7	0.7	0.7	0.7
156°	0.8	0.7	0.7	0.7	0.7	0.7
156.5°	0.8	0.7	0.7	0.7	0.7	0.8
157°	0.8	0.7	0.7	0.7	0.7	0.8



TEST NUMBER: P640221

CATALOG NUMBER: LCR830RD9FSE040-33W-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	0.8	0.7	0.7	0.7	0.7	0.8
158°	0.8	0.7	0.7	0.7	0.7	0.8
158.5°	0.9	0.7	0.7	0.7	0.8	0.8
159°	0.9	0.7	0.7	0.7	0.8	0.8
159.5°	0.9	0.7	0.7	0.7	0.8	0.8
160°	0.9	0.7	0.7	0.7	0.8	0.8
160.5°	0.9	0.7	0.7	0.7	0.8	0.8
161°	0.9	0.7	0.7	0.7	0.8	0.8
161.5°	0.9	0.7	0.7	0.7	0.8	0.8
162°	0.9	0.7	0.7	0.8	0.8	0.8
162.5°	0.9	0.7	0.7	0.8	0.8	0.8
163°	0.9	0.7	0.7	0.8	0.8	0.8
163.5°	0.9	0.7	0.7	0.8	0.8	0.8
164°	0.9	0.7	0.7	0.8	0.8	0.8
164.5°	0.9	0.7	0.7	0.8	0.8	0.8
165°	0.9	0.7	0.7	0.8	0.8	0.8
165.5°	0.9	0.7	0.7	0.8	0.8	0.8
166°	0.9	0.7	0.7	0.8	0.8	0.8
166.5°	0.9	0.7	0.8	0.8	0.8	0.8
167°	0.9	0.7	0.8	0.8	0.8	0.8
167.5°	0.9	0.7	0.8	0.8	0.8	0.8
168°	0.9	0.8	0.8	0.8	0.8	0.8
168.5°	0.9	0.8	0.8	0.8	0.8	0.8
169°	0.9	0.8	0.8	0.8	0.8	0.8
169.5°	0.9	0.8	0.8	0.8	0.8	0.8
170°	0.9	0.8	0.8	0.8	0.8	0.8
170.5°	0.9	0.8	0.8	0.8	0.8	0.8
171°	0.9	0.8	0.8	0.8	0.8	0.8
171.5°	0.9	0.8	0.8	0.8	0.8	0.8
172°	0.9	0.8	0.8	0.8	0.8	0.8
172.5°	0.9	0.8	0.8	0.8	0.8	0.8
173°	0.9	0.8	0.8	0.8	0.8	0.8
173.5°	0.9	0.8	0.8	0.8	0.8	0.8
174°	0.9	0.8	0.8	0.8	0.8	0.8
174.5°	0.9	0.8	0.8	0.8	0.8	0.8
175°	0.9	0.8	0.8	0.8	0.8	0.8
175.5°	0.9	0.8	0.8	0.8	0.8	0.8
176°	0.9	0.8	0.8	0.8	0.8	0.8
176.5°	0.9	0.9	0.9	0.9	0.9	0.9
177°	0.9	0.9	0.9	0.9	0.9	0.9
177.5°	0.9	0.9	0.9	0.9	0.9	0.9
178°	0.9	0.9	0.9	0.9	0.9	0.9
178.5°	0.9	0.9	0.9	0.9	0.9	0.9
179°	0.9	0.9	0.9	0.9	0.9	0.9
179.5°	0.9	0.9	0.9	0.9	0.9	0.9



TEST NUMBER: P640221
CATALOG NUMBER: LCR830RD9FSE040-33W-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
180°	0.9	0.9	0.9	0.9	0.9	0.9

(END OF REPORT)