

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: P640220

Luminaire Tested: LCR830RD9FSE010-33W-6500K

Issue Date: 2/13/2023

Test Information

Test Method: LM-79-2019
Report Number: P640220
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: LCR830RD9FSE010-33W-6500K
Description: LCR 8
Light Source: 6500K CCT, 93 CRI LEDS
Ballast/Driver: -

Summary

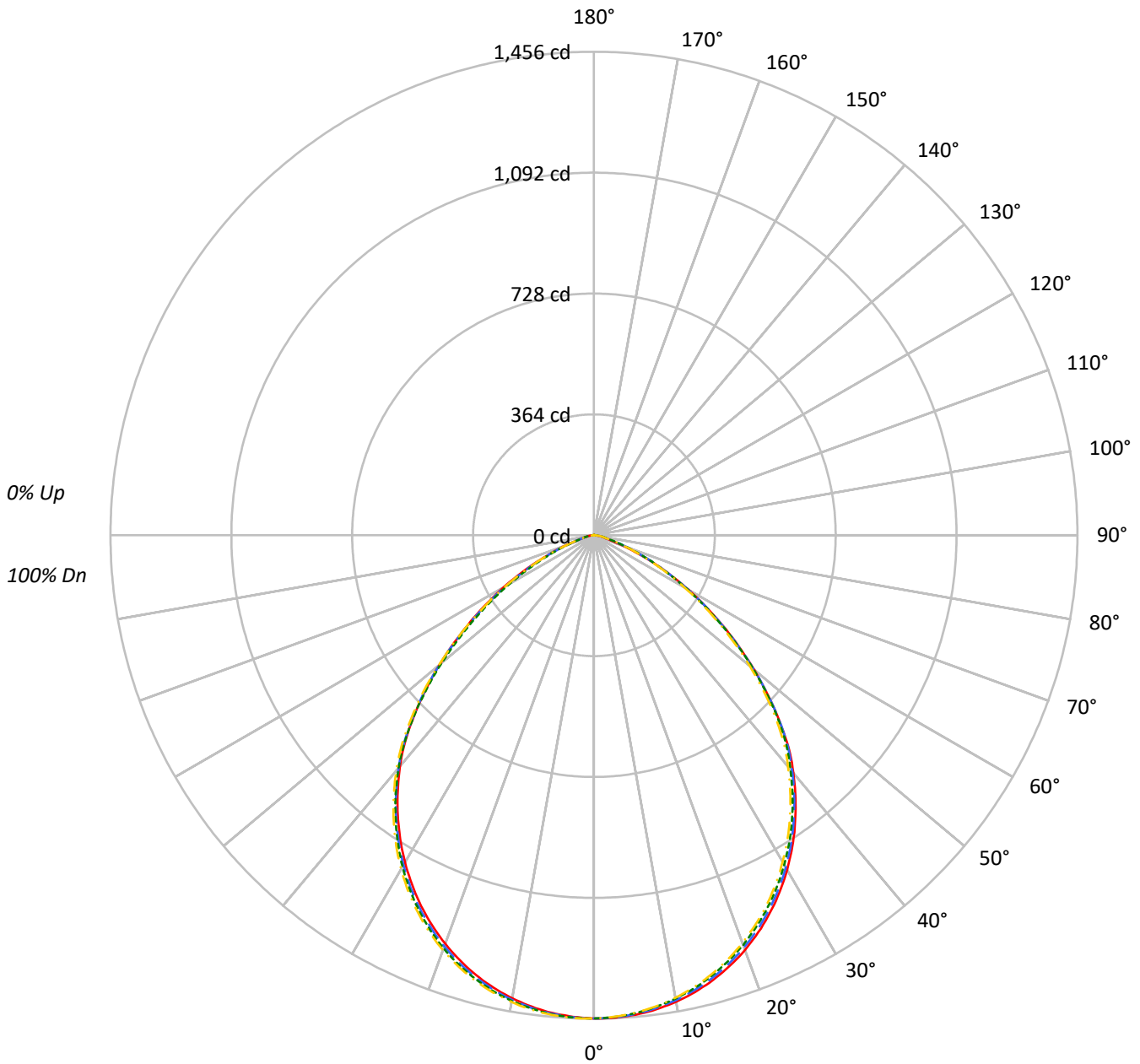
Lumens per Lamp: N/A
Luminaire Lumens: 3010.0 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.26
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 33.6
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



TEST NUMBER: P640220
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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	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°	44873	44873	44873	44873
5°	44862	44710	44698	44837
10°	44670	44360	44335	44588
15°	44260	43829	43771	44132
20°	43625	43132	42965	43444
25°	42687	42088	41894	42425
30°	41421	40805	40517	41044
35°	39764	39161	38762	39210
40°	37613	37074	36567	36844
45°	34434	34220	33304	33330
50°	30165	30026	29110	28707
55°	25397	25101	24408	23521
60°	20284	19877	19353	18132
65°	14593	14681	13783	12659
70°	8682	9755	8304	7564
75°	4635	5850	4599	4408
80°	3871	4777	3782	3676
85°	2795	4529	2689	2583

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 34504 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.3	4.6
10°-20°	388.3	12.9
20°-30°	571.4	19.0
30°-40°	650.1	21.6
40°-50°	595.4	19.8
50°-60°	409.8	13.6
60°-70°	193.4	6.4
70°-80°	51.0	1.7
80°-90°	10.8	0.4
90°-100°	0.1	0.0
100°-110°	0.2	0.0
110°-120°	0.3	0.0
120°-130°	0.3	0.0
130°-140°	0.4	0.0
140°-150°	0.4	0.0
150°-160°	0.3	0.0
160°-170°	0.2	0.0
170°-180°	0.1	0.0
0°-30°	1097.0	36.4
0°-40°	1747.2	58.0
0°-60°	2752.4	91.4
0°-90°	3007.6	99.9
90°-120°	0.6	0.0
90°-150°	1.7	0.1
90°-180°	2.0	0.1
0°-180°	3010.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1455	1455	1455	1455	1455	
5°	1449	1444	1444	1448	1449	138
15°	1386	1373	1371	1382	1386	391
25°	1255	1237	1231	1247	1255	577
35°	1056	1040	1030	1042	1056	659
45°	790	785	764	764	790	606
55°	472	467	454	438	472	423
65°	200	201	189	174	200	201
75°	39	49	39	37	39	49
85°	8	13	8	7	8	9
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	0	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°	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2
0.5°	1455.7	1455.2	1455.2	1454.9	1454.9	1454.9	1454.7	1454.7	1454.8	1454.8	1455.0
1°	1455.3	1455.1	1454.7	1454.5	1454.5	1454.5	1454.2	1454.2	1454.4	1454.5	1454.7
1.5°	1455.1	1455.0	1454.3	1453.9	1453.5	1453.5	1453.5	1453.5	1453.5	1453.9	1454.2
2°	1454.9	1454.6	1453.7	1453.3	1452.8	1452.6	1452.5	1452.3	1452.4	1452.9	1453.6
2.5°	1454.1	1453.8	1453.0	1452.3	1451.8	1451.6	1451.2	1451.2	1451.6	1451.8	1452.9
3°	1453.3	1453.1	1452.2	1451.2	1450.6	1450.3	1449.9	1449.8	1450.1	1451.1	1452.0
3.5°	1452.5	1452.3	1451.1	1449.9	1449.5	1448.9	1448.6	1448.4	1448.7	1450.0	1450.9
4°	1451.6	1451.1	1449.8	1448.6	1448.0	1447.4	1447.0	1447.1	1447.4	1448.5	1449.6
4.5°	1450.5	1449.8	1448.3	1446.9	1446.2	1445.4	1445.1	1445.5	1445.9	1447.3	1448.0
5°	1449.3	1448.2	1446.6	1445.1	1444.4	1443.7	1443.3	1443.5	1444.0	1445.1	1446.4
5.5°	1447.7	1446.4	1445.0	1442.9	1442.2	1441.5	1440.9	1441.2	1442.4	1443.1	1444.6
6°	1446.2	1444.8	1443.3	1441.1	1440.1	1439.4	1438.8	1438.9	1439.8	1441.1	1442.5
6.5°	1444.4	1442.7	1441.0	1438.9	1437.7	1436.9	1436.3	1436.3	1437.4	1438.9	1440.5
7°	1442.6	1440.8	1438.7	1436.6	1435.2	1434.3	1433.6	1433.9	1434.9	1436.4	1438.2
7.5°	1439.7	1438.5	1435.8	1434.1	1432.5	1431.6	1430.8	1430.8	1432.1	1433.6	1435.6
8°	1437.7	1436.0	1433.4	1431.5	1429.7	1428.6	1427.8	1427.8	1429.1	1430.8	1432.8
8.5°	1435.0	1433.4	1430.5	1428.6	1426.6	1425.5	1424.8	1424.9	1426.1	1427.9	1429.9
9°	1432.5	1430.5	1427.7	1425.4	1423.5	1422.2	1421.5	1421.8	1422.8	1424.7	1426.8
9.5°	1429.7	1427.7	1424.4	1422.1	1420.2	1418.7	1418.0	1418.2	1419.4	1421.3	1424.1
10°	1426.6	1424.6	1421.4	1418.7	1416.7	1415.1	1414.3	1414.5	1415.9	1417.9	1420.9
10.5°	1423.3	1421.3	1418.0	1415.1	1413.0	1411.0	1410.4	1410.9	1412.1	1414.3	1417.3
11°	1419.9	1417.9	1414.5	1411.5	1409.3	1407.1	1406.4	1407.2	1408.3	1410.6	1413.5
11.5°	1416.5	1414.1	1410.8	1407.7	1405.3	1403.0	1402.2	1403.1	1404.4	1406.6	1409.6
12°	1412.7	1410.3	1406.7	1403.1	1401.1	1398.6	1397.7	1398.8	1400.2	1402.4	1405.7
12.5°	1409.0	1406.3	1402.6	1399.0	1396.9	1394.4	1393.4	1394.4	1395.8	1398.2	1401.3
13°	1404.6	1402.3	1398.4	1394.6	1392.4	1389.7	1388.9	1389.7	1391.3	1393.8	1396.9
13.5°	1400.1	1398.0	1393.9	1390.2	1387.8	1385.0	1384.0	1384.8	1386.4	1388.9	1392.5
14°	1395.8	1393.5	1389.3	1385.3	1382.9	1380.3	1379.1	1379.8	1381.6	1384.0	1387.7
14.5°	1391.4	1388.9	1384.7	1380.4	1377.9	1375.4	1374.1	1374.6	1376.5	1379.0	1382.8
15°	1386.4	1384.0	1379.6	1375.2	1372.9	1370.0	1368.6	1369.5	1371.1	1373.9	1377.7
15.5°	1381.4	1378.9	1374.4	1369.8	1367.6	1364.8	1363.3	1363.8	1365.7	1368.5	1372.5
16°	1376.4	1373.7	1369.2	1364.6	1362.0	1359.4	1357.3	1358.4	1360.2	1363.1	1367.1
16.5°	1371.3	1368.4	1364.0	1359.0	1356.2	1353.5	1351.7	1352.7	1354.3	1357.4	1361.7
17°	1365.8	1362.8	1358.2	1353.2	1350.4	1347.7	1345.8	1346.4	1348.6	1351.6	1355.8
17.5°	1360.1	1356.9	1352.5	1347.5	1344.8	1341.5	1339.6	1340.3	1342.3	1345.4	1349.7
18°	1354.4	1351.0	1346.3	1341.4	1338.9	1335.4	1333.5	1334.1	1336.0	1339.2	1343.5
18.5°	1348.3	1344.6	1340.3	1335.1	1332.6	1328.8	1327.0	1327.6	1329.5	1332.9	1337.4
19°	1342.2	1338.5	1334.1	1328.5	1325.8	1322.3	1320.4	1320.7	1323.0	1326.4	1330.8
19.5°	1336.0	1332.3	1327.9	1322.3	1319.5	1315.8	1313.6	1313.9	1316.1	1319.9	1324.4
20°	1329.4	1326.0	1321.1	1315.6	1314.4	1308.9	1307.0	1307.3	1309.3	1313.1	1317.6
20.5°	1322.3	1319.4	1314.4	1308.9	1305.9	1302.2	1299.6	1300.2	1302.4	1305.9	1310.7
21°	1315.5	1312.3	1307.3	1302.0	1298.8	1295.2	1292.4	1293.0	1295.1	1298.8	1303.4
21.5°	1308.6	1305.4	1300.3	1294.8	1291.5	1287.6	1284.7	1285.6	1287.5	1291.5	1296.0
22°	1301.2	1298.2	1293.0	1287.7	1284.4	1280.1	1277.6	1278.2	1279.9	1284.2	1288.7



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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°	1293.8	1290.8	1285.9	1280.1	1277.0	1272.7	1270.1	1270.6	1272.2	1276.3	1281.0
23°	1286.6	1283.3	1278.1	1272.4	1269.4	1264.8	1262.4	1262.5	1264.6	1268.5	1273.2
23.5°	1278.7	1275.7	1270.3	1264.4	1261.5	1256.8	1254.4	1254.3	1256.3	1260.5	1265.2
24°	1270.7	1267.6	1262.3	1256.5	1253.4	1248.7	1246.2	1246.1	1248.0	1252.4	1257.1
24.5°	1262.9	1259.8	1254.3	1248.2	1245.5	1240.6	1238.0	1237.7	1239.7	1243.9	1248.9
25°	1254.6	1251.5	1246.1	1239.9	1237.0	1232.2	1229.1	1229.2	1231.3	1235.3	1240.2
25.5°	1246.0	1243.3	1237.5	1231.6	1228.5	1223.4	1220.8	1220.7	1222.5	1227.0	1232.0
26°	1237.6	1234.8	1228.9	1223.2	1220.0	1214.6	1212.0	1211.8	1213.7	1218.1	1223.4
26.5°	1228.8	1225.9	1220.4	1214.6	1211.3	1206.4	1202.9	1202.7	1204.6	1208.9	1214.2
27°	1219.7	1217.2	1211.4	1205.8	1202.2	1196.8	1193.6	1193.6	1195.6	1199.7	1205.0
27.5°	1210.7	1207.9	1202.4	1196.6	1193.7	1188.0	1184.9	1184.3	1186.3	1190.3	1195.9
28°	1201.4	1198.8	1192.7	1187.5	1184.3	1178.8	1175.0	1174.8	1176.9	1181.1	1186.3
28.5°	1192.1	1189.3	1183.8	1177.9	1175.4	1169.3	1165.7	1165.4	1167.2	1171.2	1176.7
29°	1182.8	1180.1	1174.6	1168.6	1165.6	1159.9	1156.0	1155.3	1157.6	1161.6	1167.0
29.5°	1173.0	1170.4	1164.7	1159.0	1156.0	1150.2	1146.2	1145.8	1147.8	1151.8	1157.2
30°	1163.3	1160.6	1155.1	1149.1	1146.0	1140.6	1136.1	1135.9	1137.9	1141.8	1146.9
30.5°	1153.2	1150.5	1144.8	1139.3	1136.0	1130.4	1126.2	1125.7	1127.5	1131.4	1136.6
31°	1142.9	1140.5	1134.8	1129.2	1125.9	1120.2	1115.8	1115.5	1117.2	1121.2	1126.4
31.5°	1132.5	1130.0	1124.7	1118.8	1115.9	1109.7	1105.2	1105.0	1106.6	1110.7	1115.9
32°	1122.3	1119.8	1114.4	1108.7	1105.4	1099.3	1094.4	1094.4	1096.2	1100.3	1105.3
32.5°	1111.4	1109.2	1103.6	1098.0	1095.1	1089.2	1084.5	1083.9	1085.5	1089.4	1094.5
33°	1100.9	1098.6	1093.1	1087.4	1084.5	1078.1	1073.7	1073.1	1074.7	1078.5	1083.2
33.5°	1090.3	1087.6	1082.1	1076.5	1073.6	1067.3	1062.7	1062.1	1063.5	1067.2	1072.0
34°	1079.2	1076.7	1071.6	1065.9	1062.7	1056.2	1051.8	1050.8	1052.4	1056.2	1060.8
34.5°	1067.6	1065.1	1060.1	1054.8	1051.6	1045.4	1040.6	1039.6	1041.0	1044.5	1049.4
35°	1056.3	1054.2	1049.1	1043.4	1040.3	1034.1	1029.3	1028.3	1029.7	1033.3	1038.2
35.5°	1044.5	1042.6	1037.8	1032.2	1029.1	1022.8	1018.2	1016.7	1018.3	1021.5	1026.4
36°	1033.1	1031.3	1026.2	1020.7	1017.5	1010.9	1006.3	1004.9	1006.6	1009.9	1014.6
36.5°	1021.2	1019.4	1014.4	1009.0	1005.9	999.6	994.5	993.3	994.7	998.0	1002.7
37°	1009.2	1007.6	1002.9	997.0	993.9	987.4	982.6	981.3	982.6	985.8	990.7
37.5°	997.0	995.4	991.1	985.1	982.1	975.8	970.9	969.6	970.5	973.6	978.2
38°	984.8	983.3	978.6	973.1	969.8	963.6	958.5	957.7	958.2	961.5	965.8
38.5°	972.5	970.7	966.3	960.9	957.6	951.5	946.3	945.4	946.1	948.8	953.3
39°	960.1	958.4	954.5	948.9	945.7	939.0	934.1	932.8	933.6	936.4	940.9
39.5°	947.3	945.7	942.0	936.1	933.4	927.1	921.7	920.4	921.0	923.7	928.0
40°	934.4	933.4	929.4	923.6	921.0	914.3	909.0	907.8	908.4	911.3	915.3
40.5°	921.7	920.6	916.5	911.1	908.3	901.7	896.8	895.4	895.9	898.3	902.0
41°	908.9	908.0	903.8	898.2	895.6	889.0	884.1	882.5	883.0	884.9	888.6
41.5°	895.2	895.0	891.1	885.4	883.0	876.6	871.4	869.9	869.3	870.8	874.3
42°	881.4	881.6	878.2	872.6	870.4	863.7	858.6	856.2	854.9	856.4	860.2
42.5°	867.0	867.3	865.0	859.3	857.5	850.7	844.8	842.2	840.6	841.5	845.1
43°	852.0	853.1	850.4	845.5	843.5	837.0	830.8	827.4	825.6	826.6	830.1
43.5°	836.4	838.1	835.6	830.9	829.6	822.6	816.1	812.6	810.4	811.4	814.7
44°	821.1	822.4	820.6	815.7	814.6	807.8	801.2	797.0	794.9	796.3	799.4
44.5°	805.3	806.7	805.5	800.6	799.9	792.8	786.1	781.8	779.5	780.4	783.5



TEST NUMBER: P640220

CATALOG NUMBER: LCR830RD9FSE010-33W-6500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	789.6	791.2	789.9	785.1	784.7	777.7	770.7	766.6	763.7	764.7	767.9
45.5°	773.9	775.4	773.9	769.9	769.1	762.2	755.7	750.9	748.2	749.0	752.2
46°	758.0	759.3	758.1	753.8	754.2	746.6	739.8	735.0	732.5	733.2	736.3
46.5°	741.5	743.3	742.1	738.2	737.7	730.8	723.9	719.5	716.9	717.5	720.1
47°	725.5	727.3	726.0	721.7	722.0	715.0	708.0	703.9	700.7	701.4	704.0
47.5°	709.1	711.2	709.6	705.3	706.0	699.1	692.5	688.3	685.3	685.7	688.0
48°	693.3	695.1	693.4	689.1	690.3	683.1	676.2	672.7	669.8	670.1	672.1
48.5°	677.4	678.8	677.1	673.2	674.2	667.1	660.0	657.1	654.4	654.3	656.1
49°	661.2	662.7	660.7	656.6	658.1	651.2	643.7	641.5	639.0	638.6	640.1
49.5°	645.2	646.5	645.2	640.7	642.0	635.2	627.5	625.9	623.5	622.9	624.2
50°	628.8	630.4	628.4	624.2	625.9	619.2	612.8	609.5	606.8	606.4	607.6
50.5°	612.7	614.4	612.2	607.8	609.6	603.2	596.9	593.3	591.2	590.4	591.6
51°	596.9	598.1	596.2	591.6	593.6	586.7	581.0	577.6	575.5	574.7	575.1
51.5°	580.9	582.3	580.1	575.8	577.4	570.9	565.4	562.0	560.4	559.2	559.2
52°	565.1	566.6	564.5	559.6	561.8	555.1	549.3	546.7	544.5	543.6	543.4
52.5°	549.3	551.0	548.3	543.7	545.4	539.1	533.6	531.0	529.0	527.9	527.6
53°	533.9	535.0	532.4	527.9	529.5	523.3	518.1	515.4	513.9	512.4	511.4
53.5°	518.2	519.4	516.8	512.1	513.4	507.3	502.8	500.3	498.6	497.0	495.8
54°	502.5	503.8	500.8	496.3	497.7	491.9	487.4	485.2	483.4	481.8	480.5
54.5°	487.6	488.8	485.9	480.9	482.1	476.7	472.0	470.3	468.3	466.7	464.9
55°	472.4	473.5	470.5	465.4	466.9	461.6	457.1	455.6	454.0	451.6	449.8
55.5°	456.7	458.8	455.4	450.0	451.3	446.5	442.1	440.8	439.0	437.0	434.3
56°	442.7	443.8	440.5	435.3	436.2	431.6	427.7	426.1	424.4	422.1	419.4
56.5°	427.8	429.2	425.8	420.5	421.2	416.7	412.9	411.6	409.8	407.6	404.8
57°	413.0	414.3	410.9	405.5	406.5	402.0	398.6	397.4	395.9	392.9	390.1
57.5°	398.1	400.3	396.5	390.9	391.7	387.6	384.2	383.5	381.6	378.7	375.5
58°	384.7	385.9	382.2	376.8	377.6	373.5	370.4	369.9	367.8	364.8	361.1
58.5°	370.5	371.9	368.3	362.7	363.5	359.3	356.4	355.8	354.2	351.0	347.4
59°	356.4	357.7	354.3	348.2	349.5	345.7	342.9	342.2	340.9	337.3	333.2
59.5°	342.2	344.3	340.6	334.9	335.9	332.0	329.1	328.8	327.0	323.8	319.4
60°	328.9	330.6	327.1	321.6	322.3	318.5	316.0	315.7	313.8	310.2	305.7
60.5°	314.7	317.7	312.2	308.6	309.0	305.6	302.9	302.7	300.9	297.2	292.5
61°	301.8	304.8	299.6	295.7	296.0	292.6	290.1	289.7	288.4	284.3	279.1
61.5°	288.9	291.9	287.1	282.8	283.4	279.8	277.7	277.4	275.4	271.6	266.3
62°	276.0	278.9	274.5	269.9	270.9	267.6	265.4	265.1	263.3	259.0	253.8
62.5°	263.0	266.0	261.9	257.0	258.6	255.4	253.0	253.0	250.6	246.7	241.2
63°	250.3	253.1	249.8	244.4	246.4	243.3	241.2	240.9	237.7	234.4	228.7
63.5°	237.8	240.9	237.9	233.2	234.7	231.5	229.5	229.1	225.3	222.6	217.0
64°	224.9	229.1	226.2	221.7	223.3	220.1	218.2	217.9	213.1	210.8	205.2
64.5°	212.4	217.6	214.8	210.3	212.1	209.1	206.9	206.5	200.7	199.1	193.8
65°	200.0	205.9	203.7	199.4	201.2	198.3	196.3	195.6	188.9	187.6	182.8
65.5°	187.9	194.5	192.6	188.8	190.6	187.6	185.5	184.8	177.3	176.5	172.0
66°	175.6	183.3	182.0	178.2	180.0	177.2	175.2	173.8	166.2	165.4	161.2
66.5°	164.2	172.3	171.6	168.1	169.9	167.4	165.2	163.3	155.7	154.8	150.9
67°	153.2	161.5	161.5	158.3	160.2	157.7	155.6	153.0	145.6	144.4	141.3



TEST NUMBER: P640220

CATALOG NUMBER: LCR830RD9FSE010-33W-6500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	143.1	151.1	151.8	148.9	150.8	148.3	146.0	143.1	135.7	134.7	131.9
68°	133.1	141.1	142.3	139.8	141.4	139.0	136.8	133.4	126.2	125.2	122.4
68.5°	123.7	131.2	133.0	130.7	132.9	130.6	128.1	124.0	117.2	116.2	113.7
69°	114.4	121.9	124.2	122.4	124.2	121.9	119.6	115.3	108.5	107.5	105.2
69.5°	105.2	113.0	115.7	114.0	116.0	113.8	111.3	106.9	100.0	99.1	97.1
70°	96.3	104.5	107.6	106.2	108.2	106.1	103.5	98.9	92.1	91.3	89.4
70.5°	87.9	96.4	99.7	98.7	100.8	98.8	96.1	91.4	85.4	84.8	82.7
71°	80.0	88.5	92.1	91.5	93.5	91.5	89.1	85.1	78.6	78.2	76.1
71.5°	72.6	81.3	85.1	84.6	86.7	85.5	83.0	78.8	71.8	71.6	69.4
72°	65.6	74.4	78.4	78.2	80.7	79.4	77.0	72.6	65.1	65.1	62.8
72.5°	59.5	68.0	71.9	72.1	74.8	73.4	71.0	66.3	58.4	58.5	57.5
73°	53.8	62.0	66.1	66.4	68.8	67.4	64.9	60.0	52.8	53.5	52.6
73.5°	48.7	56.7	60.6	61.1	62.9	61.3	58.9	54.9	48.5	49.0	48.1
74°	45.0	52.0	55.7	56.3	57.9	56.5	54.2	50.4	45.0	45.0	44.2
74.5°	41.7	47.7	51.0	51.7	53.3	52.1	49.8	46.2	41.4	41.4	40.9
75°	38.9	44.0	46.9	47.6	49.1	48.0	45.8	42.6	38.6	38.3	38.2
75.5°	37.0	40.5	43.2	44.0	45.3	44.3	42.2	39.3	36.5	36.1	36.2
76°	35.1	37.5	40.0	40.8	42.0	41.0	39.1	36.7	34.6	34.2	34.4
76.5°	33.2	35.3	37.4	38.0	39.1	38.3	36.9	34.7	32.7	32.4	32.6
77°	31.6	33.4	35.5	36.1	36.9	36.3	35.1	32.9	31.0	30.5	30.9
77.5°	29.9	31.5	33.7	34.4	35.1	34.6	33.4	31.2	29.3	28.8	29.2
78°	28.2	29.8	32.0	32.7	33.4	32.9	31.7	29.4	27.6	27.2	27.6
78.5°	26.6	28.2	30.4	31.1	31.7	31.2	30.0	27.7	26.0	25.5	25.9
79°	24.9	26.5	28.8	29.5	30.1	29.6	28.4	26.1	24.4	23.9	24.4
79.5°	23.3	24.9	27.2	28.0	28.5	28.0	26.8	24.5	22.8	22.3	22.8
80°	21.8	23.3	25.6	26.4	26.9	26.4	25.2	22.9	21.3	20.8	21.3
80.5°	20.3	21.8	24.0	24.8	25.4	24.9	23.6	21.3	19.8	19.3	19.9
81°	18.8	20.3	22.5	23.3	23.9	23.4	22.1	19.8	18.3	17.8	18.4
81.5°	17.4	18.8	21.0	21.8	22.4	22.0	20.7	18.4	16.8	16.3	17.0
82°	15.9	17.4	19.5	20.4	21.0	20.5	19.2	16.9	15.4	14.9	15.6
82.5°	14.6	15.9	18.1	19.0	19.5	19.1	17.8	15.4	14.0	13.5	14.2
83°	13.2	14.5	16.7	17.6	18.1	17.7	16.3	14.0	12.6	12.1	12.9
83.5°	11.8	13.1	15.3	16.2	16.8	16.3	15.0	12.7	11.3	10.8	11.6
84°	10.5	11.8	14.0	14.9	15.4	14.9	13.6	11.3	9.9	9.5	10.3
84.5°	9.2	10.4	12.7	13.5	14.1	13.6	12.3	10.0	8.8	8.4	9.1
85°	7.9	9.1	11.4	12.2	12.8	12.3	11.0	8.9	7.6	7.3	8.0
85.5°	6.7	7.9	10.2	11.0	11.5	11.0	9.8	7.8	6.5	6.2	6.8
86°	5.8	6.9	9.0	9.7	10.2	9.8	8.6	6.6	5.4	5.1	5.6
86.5°	4.8	5.8	7.8	8.4	9.0	8.5	7.4	5.5	4.2	4.0	4.4
87°	3.9	4.9	6.7	7.2	7.8	7.3	6.3	4.4	3.3	3.1	3.3
87.5°	3.1	4.0	5.5	6.0	6.5	6.1	5.1	3.5	2.6	2.2	2.2
88°	2.4	3.1	4.4	4.8	5.3	4.9	4.0	2.6	1.8	1.4	1.1
88.5°	1.7	2.4	3.3	3.7	4.1	3.7	2.9	1.8	1.0	0.6	0.3
89°	1.0	1.7	2.5	2.8	3.0	2.6	1.8	0.9	0.3	0.2	0.1
89.5°	0.3	0.9	1.7	1.9	1.8	1.5	0.8	0.3	0.2	0.2	0.1



TEST NUMBER: P640220
 CATALOG NUMBER: LCR830RD9FSE010-33W-6500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.1	0.2	0.9	1.0	0.8	0.5	0.2	0.2	0.1	0.2	0.1
90.5°	0.1	0.2	0.1	0.1	0.1	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	0.1	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	0.1	0.1	0.1	0.1	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	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°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
97°	0.1	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	0.1	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	0.1	0.1	0.1
99.5°	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
100°	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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	0.1	0.1
104°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.1	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	0.1	0.2	0.2	0.1
106°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.1
106.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.1
107°	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.1
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	0.1	0.1	0.1	0.2	0.2	0.2	0.2
108.5°	0.2	0.2	0.2	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2
109°	0.2	0.2	0.2	0.2	0.2	0.1	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	0.2	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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
112°	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2



TEST NUMBER: P640220

CATALOG NUMBER: LCR830RD9FSE010-33W-6500K

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	0.2	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	0.2	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	0.2	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	0.2	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	0.2
117.5°	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.3	0.3
118°	0.3	0.3	0.3	0.3	0.2	0.2	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	0.3	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	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
120.5°	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
121°	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
121.5°	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	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	0.3	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	0.3	0.4	0.4	0.3
124°	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.3
124.5°	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.3
125°	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.4
125.5°	0.4	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4
126°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
126.5°	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
127°	0.5	0.4	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	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
128.5°	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
129°	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4
129.5°	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.4	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	0.4	0.5	0.5	0.4
131°	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.4
131.5°	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.4
132°	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.4
132.5°	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.5
133°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
133.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
134°	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
134.5°	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5



TEST NUMBER: P640220
 CATALOG NUMBER: LCR830RD9FSE010-33W-6500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
135°	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
135.5°	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5
136°	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5
136.5°	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.5	0.5
137°	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.5
137.5°	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.5	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	0.5
138.5°	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.6	0.6	0.6	0.5
139°	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.6	0.6	0.6	0.6
139.5°	0.6	0.6	0.6	0.6	0.6	0.5	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	0.6	0.6	0.6
142.5°	0.6	0.6	0.6	0.6	0.6	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	0.6	0.6	0.6	0.6	0.6
143.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
144°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
144.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
145°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.6
145.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7
146°	0.7	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7
146.5°	0.7	0.7	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7
147°	0.7	0.7	0.6	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7
147.5°	0.7	0.7	0.7	0.6	0.7	0.7	0.7	0.7	0.7	0.7	0.7
148°	0.7	0.7	0.7	0.6	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	0.7	0.7	0.7
150.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
151°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
151.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
152°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.7
152.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8
153°	0.7	0.7	0.7	0.7	0.7	0.7	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°	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
157°	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8



TEST NUMBER: P640220

CATALOG NUMBER: LCR830RD9FSE010-33W-6500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
158°	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
158.5°	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
159°	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
159.5°	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
160°	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.9	0.9	0.8
160.5°	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.9	0.9	0.9	0.9
161°	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.9	0.9	0.9	0.9
161.5°	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.9	0.9	0.9	0.9
162°	0.7	0.7	0.7	0.7	0.8	0.8	0.9	0.9	0.9	0.9	0.9
162.5°	0.7	0.7	0.7	0.7	0.8	0.8	0.9	0.9	0.9	0.9	0.9
163°	0.7	0.7	0.7	0.7	0.8	0.9	0.9	0.9	0.9	0.9	0.9
163.5°	0.7	0.7	0.7	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9
164°	0.7	0.7	0.7	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9
164.5°	0.7	0.7	0.7	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9
165°	0.7	0.7	0.7	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9
165.5°	0.7	0.7	0.7	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9
166°	0.7	0.7	0.7	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9
166.5°	0.7	0.7	0.7	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9
167°	0.7	0.7	0.7	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9
167.5°	0.8	0.8	0.7	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9
168°	0.8	0.8	0.7	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9
168.5°	0.8	0.8	0.7	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9
169°	0.8	0.8	0.8	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9
169.5°	0.8	0.8	0.8	0.7	0.9	0.9	0.9	0.9	0.9	0.9	0.9
170°	0.8	0.8	0.8	0.7	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°	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9
177°	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9
177.5°	0.8	0.8	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: P640220
CATALOG NUMBER: LCR830RD9FSE010-33W-6500K

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: P640220

CATALOG NUMBER: LCR830RD9FSE010-33W-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1455.2	1455.2	1455.2	1455.2	1455.2	1455.2
0.5°	1455.7	1455.2	1455.0	1455.4	1455.6	1455.7
1°	1455.3	1455.0	1455.2	1455.6	1455.8	1455.3
1.5°	1454.8	1454.3	1455.0	1455.6	1455.6	1455.1
2°	1454.4	1453.9	1454.7	1455.4	1455.3	1454.9
2.5°	1453.8	1453.7	1454.2	1454.9	1454.7	1454.1
3°	1453.2	1453.0	1453.5	1454.4	1454.2	1453.3
3.5°	1452.3	1452.0	1452.7	1453.4	1453.5	1452.5
4°	1450.9	1451.0	1452.2	1452.4	1452.5	1451.6
4.5°	1449.7	1449.8	1450.6	1451.3	1451.5	1450.5
5°	1448.0	1448.5	1449.2	1450.0	1450.1	1449.3
5.5°	1446.2	1446.7	1447.7	1448.6	1448.7	1447.7
6°	1444.3	1444.9	1446.1	1447.0	1447.0	1446.2
6.5°	1442.4	1442.5	1444.1	1445.2	1445.1	1444.4
7°	1440.1	1440.1	1442.0	1443.2	1443.1	1442.6
7.5°	1437.7	1438.2	1440.0	1441.1	1440.9	1439.7
8°	1435.0	1435.5	1437.6	1438.7	1438.7	1437.7
8.5°	1432.7	1433.2	1435.1	1436.2	1435.9	1435.0
9°	1429.6	1430.3	1432.1	1433.7	1433.2	1432.5
9.5°	1426.7	1427.1	1429.2	1430.7	1430.5	1429.7
10°	1423.3	1424.0	1426.1	1427.6	1427.5	1426.6
10.5°	1420.1	1420.8	1422.8	1424.0	1424.3	1423.3
11°	1416.7	1417.2	1419.4	1420.7	1421.1	1419.9
11.5°	1412.7	1413.6	1415.5	1417.1	1417.3	1416.5
12°	1408.7	1409.8	1411.6	1413.5	1413.7	1412.7
12.5°	1404.7	1405.6	1407.8	1409.6	1409.6	1409.0
13°	1400.2	1401.1	1403.7	1405.7	1405.6	1404.6
13.5°	1396.2	1396.8	1399.4	1401.3	1401.3	1400.1
14°	1391.6	1392.2	1395.0	1396.9	1396.8	1395.8
14.5°	1387.0	1387.5	1390.2	1392.3	1392.3	1391.4
15°	1381.7	1382.4	1385.2	1387.7	1387.7	1386.4
15.5°	1376.8	1377.7	1380.2	1382.4	1382.6	1381.4
16°	1371.6	1372.3	1375.3	1377.4	1377.6	1376.4
16.5°	1365.9	1367.0	1369.8	1371.9	1372.3	1371.3
17°	1360.4	1361.0	1364.2	1366.4	1366.9	1365.8
17.5°	1354.8	1355.3	1358.4	1360.7	1361.2	1360.1
18°	1348.6	1349.5	1352.4	1354.9	1355.4	1354.4
18.5°	1342.5	1343.1	1346.3	1348.8	1349.4	1348.3
19°	1336.0	1336.9	1340.0	1342.6	1343.0	1342.2
19.5°	1329.6	1330.5	1333.3	1336.1	1336.6	1336.0
20°	1323.1	1323.9	1326.8	1329.7	1330.4	1329.4
20.5°	1316.0	1317.0	1320.0	1323.0	1323.3	1322.3
21°	1309.0	1309.6	1313.0	1316.1	1316.5	1315.5
21.5°	1301.7	1302.5	1305.7	1308.7	1309.9	1308.6
22°	1294.1	1295.2	1298.2	1301.6	1302.1	1301.2

TEST NUMBER: P640220

CATALOG NUMBER: LCR830RD9FSE010-33W-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1286.6	1287.5	1290.7	1294.3	1294.5	1293.8
23°	1279.1	1279.7	1283.0	1286.4	1287.3	1286.6
23.5°	1271.2	1271.6	1275.2	1278.8	1279.7	1278.7
24°	1263.1	1263.6	1267.2	1270.6	1271.7	1270.7
24.5°	1254.9	1255.1	1258.7	1262.5	1263.2	1262.9
25°	1246.4	1246.9	1250.4	1254.1	1255.1	1254.6
25.5°	1237.9	1238.0	1241.7	1245.5	1246.7	1246.0
26°	1229.1	1230.5	1233.0	1237.0	1238.2	1237.6
26.5°	1220.1	1220.3	1224.4	1228.0	1229.3	1228.8
27°	1211.1	1211.3	1214.9	1219.1	1220.6	1219.7
27.5°	1202.0	1201.6	1205.6	1209.9	1211.6	1210.7
28°	1192.4	1192.2	1195.8	1200.4	1202.0	1201.4
28.5°	1182.6	1182.6	1186.3	1190.6	1192.7	1192.1
29°	1172.9	1172.7	1176.9	1181.0	1182.8	1182.8
29.5°	1162.8	1162.6	1166.5	1171.1	1173.3	1173.0
30°	1152.9	1152.7	1156.5	1161.2	1163.0	1163.3
30.5°	1142.7	1142.4	1145.9	1151.0	1152.8	1153.2
31°	1132.4	1131.8	1135.6	1140.5	1143.0	1142.9
31.5°	1121.7	1121.0	1124.9	1129.9	1132.7	1132.5
32°	1111.0	1110.3	1113.7	1119.3	1122.0	1122.3
32.5°	1100.3	1099.5	1102.8	1108.5	1111.3	1111.4
33°	1089.3	1088.1	1091.9	1097.2	1100.5	1100.9
33.5°	1078.1	1076.8	1080.7	1086.1	1089.5	1090.3
34°	1066.6	1065.2	1069.0	1074.7	1078.2	1079.2
34.5°	1055.3	1053.6	1057.4	1063.4	1066.9	1067.6
35°	1043.5	1041.6	1045.7	1051.3	1055.3	1056.3
35.5°	1031.7	1029.7	1033.8	1039.7	1044.0	1044.5
36°	1019.9	1017.7	1021.2	1027.7	1031.9	1033.1
36.5°	1007.5	1005.4	1009.3	1015.6	1020.0	1021.2
37°	995.2	993.0	996.9	1002.9	1007.8	1009.2
37.5°	983.0	980.4	984.3	990.7	995.4	997.0
38°	970.4	967.6	970.9	978.0	982.9	984.8
38.5°	957.6	954.7	958.3	965.1	970.6	972.5
39°	944.8	942.0	945.6	952.5	958.0	960.1
39.5°	932.0	928.8	932.3	939.5	945.0	947.3
40°	919.2	915.3	919.1	926.2	932.1	934.4
40.5°	905.9	901.7	905.8	913.1	919.1	921.7
41°	892.0	887.7	891.4	899.5	906.1	908.9
41.5°	877.6	872.9	877.1	885.3	892.2	895.2
42°	863.0	858.2	862.2	870.8	877.9	881.4
42.5°	848.3	843.4	847.3	855.9	862.8	867.0
43°	833.3	827.9	831.5	840.7	847.7	852.0
43.5°	817.6	812.2	816.3	825.0	832.4	836.4
44°	802.1	796.1	799.5	809.3	816.6	821.1
44.5°	786.4	780.5	783.9	793.3	801.0	805.3

TEST NUMBER: P640220

CATALOG NUMBER: LCR830RD9FSE010-33W-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	770.6	764.3	767.6	777.2	785.1	789.6
45.5°	754.8	747.8	751.1	761.0	769.2	773.9
46°	738.3	731.5	734.5	744.7	753.2	758.0
46.5°	722.2	715.1	718.2	727.9	736.9	741.5
47°	706.2	698.1	701.2	711.5	720.7	725.5
47.5°	690.3	681.9	684.7	694.8	704.3	709.1
48°	673.9	664.9	668.0	678.4	688.1	693.3
48.5°	657.4	648.3	651.2	661.7	672.0	677.4
49°	641.0	631.4	634.7	644.8	655.7	661.2
49.5°	624.5	615.1	617.7	628.3	639.1	645.2
50°	608.3	598.4	600.7	611.5	622.9	628.8
50.5°	591.6	581.3	584.6	595.0	606.7	612.7
51°	575.3	564.9	568.1	578.4	590.6	596.9
51.5°	558.7	548.7	551.7	562.1	574.1	580.9
52°	542.9	532.3	535.0	546.2	558.4	565.1
52.5°	526.3	516.1	519.2	530.0	542.3	549.3
53°	510.3	499.8	503.1	513.9	526.4	533.9
53.5°	494.1	483.7	487.4	497.7	510.2	518.2
54°	478.6	468.1	470.9	481.8	494.8	502.5
54.5°	462.5	452.7	455.8	466.5	479.3	487.6
55°	447.1	437.5	440.5	451.2	463.9	472.4
55.5°	432.0	421.7	425.3	435.6	448.6	456.7
56°	416.3	406.7	410.1	420.6	433.8	442.7
56.5°	401.0	392.1	395.6	405.8	418.5	427.8
57°	386.1	377.1	380.6	391.2	404.1	413.0
57.5°	372.1	362.6	366.0	376.4	389.4	398.1
58°	357.0	348.5	352.3	362.4	375.2	384.7
58.5°	342.8	334.4	338.0	348.1	360.4	370.5
59°	328.7	320.7	324.6	334.0	347.0	356.4
59.5°	315.3	307.4	316.5	320.3	333.0	342.2
60°	301.1	294.0	302.0	307.1	319.6	328.9
60.5°	287.8	280.7	287.4	294.0	306.3	314.7
61°	274.8	267.4	272.8	280.9	293.1	301.8
61.5°	262.2	254.1	258.2	267.8	279.8	288.9
62°	249.2	242.2	245.8	254.7	266.6	276.0
62.5°	236.8	229.9	233.3	242.2	253.3	263.0
63°	224.6	218.0	221.8	230.4	241.0	250.3
63.5°	212.8	206.5	210.2	218.4	229.0	237.8
64°	201.2	195.2	199.0	206.9	217.2	224.9
64.5°	190.0	184.1	187.8	195.7	205.4	212.4
65°	179.1	173.5	177.1	184.8	194.2	200.0
65.5°	168.4	163.1	166.6	173.8	183.2	187.9
66°	158.1	152.8	156.5	163.4	172.2	175.6
66.5°	147.9	142.9	146.6	153.4	161.4	164.2
67°	138.3	133.6	136.9	143.5	150.6	153.2

TEST NUMBER: P640220

CATALOG NUMBER: LCR830RD9FSE010-33W-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	129.0	124.4	127.7	134.2	140.4	143.1
68°	120.0	115.6	118.9	124.9	130.6	133.1
68.5°	111.4	107.0	110.3	116.1	121.1	123.7
69°	102.9	99.0	102.1	107.6	112.3	114.4
69.5°	95.0	91.2	94.1	99.4	103.5	105.2
70°	87.6	83.9	86.7	91.9	95.5	96.3
70.5°	81.1	77.0	79.7	84.4	87.7	87.9
71°	74.6	70.5	73.1	77.5	80.2	80.0
71.5°	68.1	64.5	66.9	71.0	73.5	72.6
72°	61.6	59.0	61.2	65.0	67.0	65.6
72.5°	56.3	53.9	55.9	59.3	61.1	59.5
73°	51.5	49.3	51.0	54.1	55.7	53.8
73.5°	47.2	45.4	46.8	49.5	51.0	48.7
74°	43.6	42.0	43.1	45.3	46.5	45.0
74.5°	40.4	39.1	39.9	41.7	42.7	41.7
75°	38.0	37.0	37.5	38.6	39.2	38.9
75.5°	36.1	35.2	35.7	36.5	36.5	37.0
76°	34.2	33.4	33.9	34.7	34.5	35.1
76.5°	32.5	31.5	32.2	32.9	32.7	33.2
77°	30.8	29.9	30.6	31.3	31.0	31.6
77.5°	29.2	28.4	29.0	29.6	29.3	29.9
78°	27.5	26.8	27.4	27.9	27.6	28.2
78.5°	25.9	25.2	25.8	26.3	25.9	26.6
79°	24.4	23.7	24.1	24.6	24.2	24.9
79.5°	22.9	22.2	22.6	23.1	22.7	23.3
80°	21.4	20.7	21.1	21.6	21.1	21.8
80.5°	19.9	19.3	19.7	20.2	19.6	20.3
81°	18.5	17.9	18.3	18.7	18.2	18.8
81.5°	17.1	16.4	16.9	17.2	16.7	17.4
82°	15.7	15.0	15.5	15.8	15.3	15.9
82.5°	14.3	13.7	14.1	14.5	13.9	14.6
83°	13.0	12.4	12.8	13.1	12.5	13.2
83.5°	11.7	11.1	11.5	11.8	11.1	11.8
84°	10.4	9.8	10.2	10.6	9.9	10.5
84.5°	9.2	8.6	9.0	9.4	8.7	9.2
85°	7.9	7.3	7.7	8.2	7.5	7.9
85.5°	6.7	6.1	6.5	7.0	6.4	6.7
86°	5.5	4.9	5.3	5.9	5.4	5.8
86.5°	4.3	3.8	4.1	4.7	4.5	4.8
87°	3.1	2.9	3.0	3.6	3.6	3.9
87.5°	2.0	2.0	2.3	2.7	2.8	3.1
88°	0.9	1.1	1.6	1.9	2.0	2.4
88.5°	0.2	0.2	0.8	1.0	1.2	1.7
89°	0.1	0.1	0.1	0.2	0.3	1.0
89.5°	0.1	0.1	0.1	0.1	0.2	0.3



TEST NUMBER: P640220
 CATALOG NUMBER: LCR830RD9FSE010-33W-6500K

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	0.1
97°	0.1	0.1	0.1	0.1	0.1	0.1
97.5°	0.1	0.1	0.1	0.1	0.1	0.2
98°	0.1	0.1	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	0.1	0.1	0.1	0.2
99.5°	0.1	0.2	0.2	0.1	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°	0.1	0.2	0.2	0.2	0.2	0.2
108°	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
109°	0.2	0.2	0.2	0.2	0.2	0.2
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	0.2	0.2	0.2	0.2	0.3
111.5°	0.2	0.2	0.2	0.2	0.3	0.3
112°	0.2	0.3	0.2	0.2	0.3	0.3



TEST NUMBER: P640220

CATALOG NUMBER: LCR830RD9FSE010-33W-6500K

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°	0.2	0.3	0.3	0.3	0.3	0.3
118°	0.3	0.3	0.3	0.3	0.3	0.3
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	0.3	0.4
120°	0.3	0.3	0.3	0.3	0.3	0.4
120.5°	0.3	0.3	0.3	0.3	0.4	0.4
121°	0.3	0.4	0.3	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°	0.3	0.4	0.4	0.4	0.4	0.4
125°	0.3	0.4	0.4	0.4	0.4	0.4
125.5°	0.4	0.4	0.4	0.4	0.4	0.4
126°	0.4	0.4	0.4	0.4	0.4	0.4
126.5°	0.4	0.4	0.4	0.4	0.4	0.5
127°	0.4	0.4	0.4	0.4	0.4	0.5
127.5°	0.4	0.4	0.4	0.4	0.4	0.5
128°	0.4	0.4	0.4	0.4	0.5	0.5
128.5°	0.4	0.5	0.4	0.4	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°	0.4	0.5	0.5	0.5	0.5	0.5
132°	0.4	0.5	0.5	0.5	0.5	0.5
132.5°	0.5	0.5	0.5	0.5	0.5	0.5
133°	0.5	0.5	0.5	0.5	0.5	0.5
133.5°	0.5	0.5	0.5	0.5	0.5	0.5
134°	0.5	0.5	0.5	0.5	0.5	0.6
134.5°	0.5	0.5	0.5	0.5	0.5	0.6



TEST NUMBER: P640220

CATALOG NUMBER: LCR830RD9FSE010-33W-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
135°	0.5	0.5	0.5	0.5	0.5	0.6
135.5°	0.5	0.5	0.5	0.5	0.5	0.6
136°	0.5	0.5	0.5	0.5	0.5	0.6
136.5°	0.5	0.5	0.5	0.5	0.5	0.6
137°	0.5	0.6	0.5	0.5	0.6	0.6
137.5°	0.5	0.6	0.6	0.6	0.6	0.6
138°	0.5	0.6	0.6	0.6	0.6	0.6
138.5°	0.5	0.6	0.6	0.6	0.6	0.6
139°	0.5	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°	0.6	0.6	0.6	0.6	0.6	0.6
144.5°	0.6	0.6	0.6	0.6	0.6	0.6
145°	0.6	0.6	0.6	0.6	0.6	0.6
145.5°	0.7	0.6	0.6	0.6	0.6	0.6
146°	0.7	0.6	0.6	0.6	0.6	0.7
146.5°	0.7	0.6	0.6	0.6	0.6	0.7
147°	0.7	0.6	0.6	0.6	0.7	0.7
147.5°	0.7	0.6	0.6	0.6	0.7	0.7
148°	0.7	0.6	0.6	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°	0.7	0.7	0.7	0.7	0.7	0.7
151.5°	0.7	0.7	0.7	0.7	0.7	0.7
152°	0.7	0.7	0.7	0.7	0.7	0.7
152.5°	0.7	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	0.7
157°	0.8	0.7	0.7	0.7	0.7	0.7



TEST NUMBER: P640220

CATALOG NUMBER: LCR830RD9FSE010-33W-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
157.5°	0.8	0.7	0.7	0.7	0.7	0.7
158°	0.8	0.7	0.7	0.7	0.7	0.7
158.5°	0.8	0.7	0.7	0.7	0.7	0.7
159°	0.8	0.7	0.7	0.7	0.7	0.7
159.5°	0.8	0.7	0.7	0.7	0.7	0.7
160°	0.8	0.7	0.7	0.7	0.7	0.7
160.5°	0.8	0.7	0.7	0.7	0.7	0.7
161°	0.9	0.7	0.7	0.7	0.7	0.7
161.5°	0.9	0.7	0.7	0.7	0.7	0.7
162°	0.9	0.7	0.7	0.7	0.7	0.7
162.5°	0.9	0.7	0.7	0.7	0.7	0.7
163°	0.9	0.7	0.7	0.7	0.7	0.7
163.5°	0.9	0.7	0.7	0.7	0.7	0.7
164°	0.9	0.7	0.7	0.7	0.7	0.7
164.5°	0.9	0.7	0.7	0.7	0.7	0.7
165°	0.9	0.7	0.7	0.7	0.7	0.7
165.5°	0.9	0.7	0.7	0.7	0.7	0.7
166°	0.9	0.7	0.7	0.7	0.7	0.7
166.5°	0.9	0.7	0.7	0.7	0.7	0.7
167°	0.9	0.7	0.7	0.7	0.8	0.7
167.5°	0.9	0.7	0.7	0.8	0.8	0.8
168°	0.9	0.7	0.7	0.8	0.8	0.8
168.5°	0.9	0.7	0.7	0.8	0.8	0.8
169°	0.9	0.7	0.8	0.8	0.8	0.8
169.5°	0.9	0.7	0.8	0.8	0.8	0.8
170°	0.9	0.7	0.8	0.8	0.8	0.8
170.5°	0.9	0.7	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	0.8	0.8	0.8	0.8	0.8
177°	0.9	0.8	0.8	0.8	0.8	0.8
177.5°	0.9	0.9	0.9	0.9	0.9	0.8
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: P640220
CATALOG NUMBER: LCR830RD9FSE010-33W-6500K

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)