

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: P640225

Luminaire Tested: LCR830RD9FSE040-33W-5000K

Issue Date: 2/13/2023

Test Information

Test Method: LM-79-2019
Report Number: P640225
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-5000K
Description: LCR 8
Light Source: 5000K CCT, 93 CRI LEDS
Ballast/Driver: -

Summary

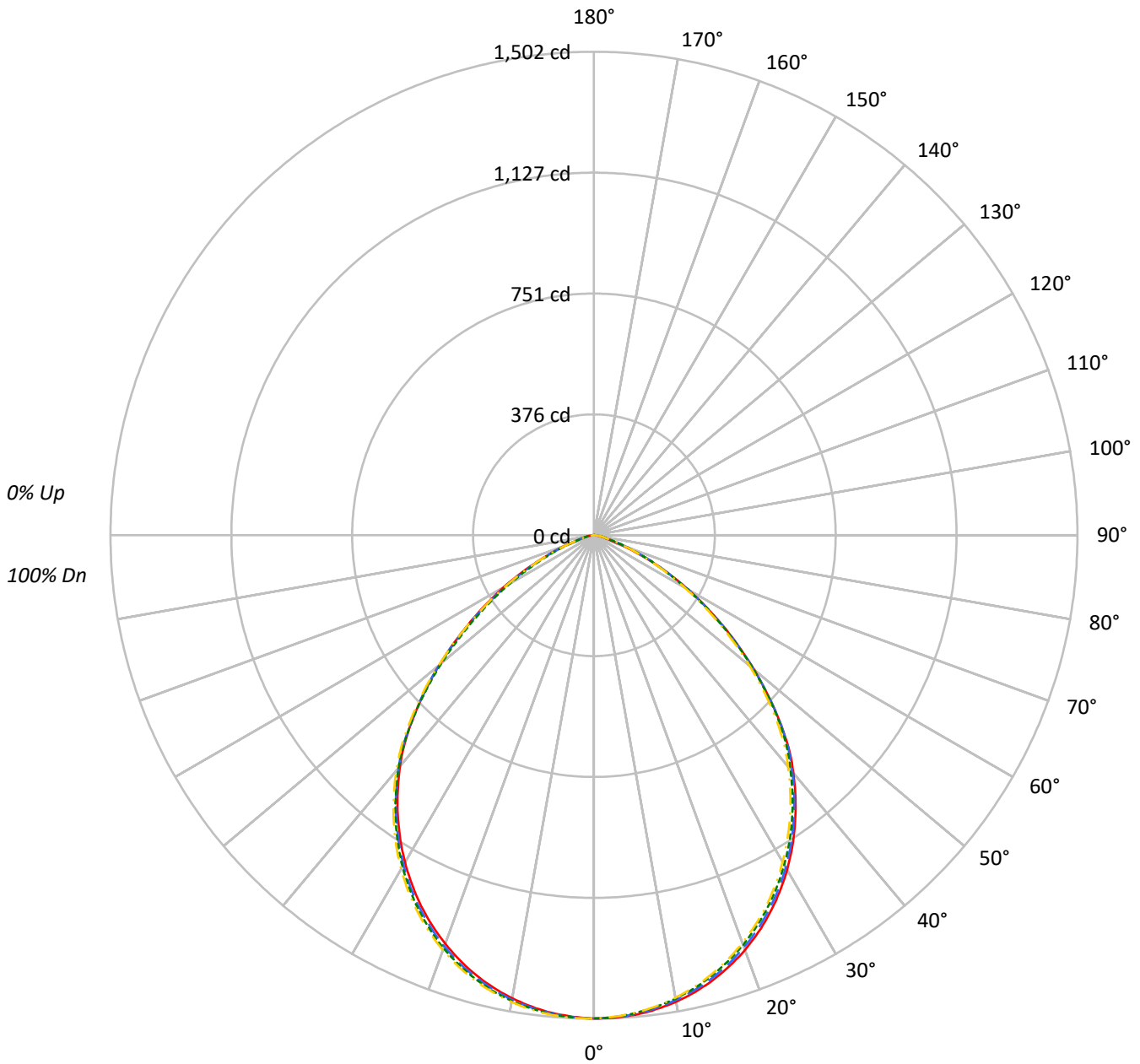
Lumens per Lamp: N/A
Luminaire Lumens: 3105.0 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.26
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

Input Watts (W): 33.8
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: P640225
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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°	46288	46288	46288	46288
5°	46276	46122	46109	46252
10°	46079	45759	45734	45994
15°	45655	45211	45153	45524
20°	45003	44494	44320	44816
25°	44034	43418	43217	43765
30°	42728	42094	41795	42336
35°	41017	40396	39982	40445
40°	38801	38241	37718	38008
45°	35524	35302	34355	34381
50°	31120	30976	30031	29614
55°	26198	25892	25176	24263
60°	20926	20506	19963	18705
65°	15053	15148	14214	13061
70°	8953	10062	8565	7799
75°	4790	6041	4742	4551
80°	3996	4937	3889	3800
85°	2901	4670	2795	2654

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 35594 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.6	4.6
10°-20°	400.6	12.9
20°-30°	589.5	19.0
30°-40°	670.6	21.6
40°-50°	614.2	19.8
50°-60°	422.8	13.6
60°-70°	199.5	6.4
70°-80°	52.6	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°	1131.7	36.4
0°-40°	1802.3	58.0
0°-60°	2839.3	91.4
0°-90°	3102.6	99.9
90°-120°	0.6	0.0
90°-150°	1.8	0.1
90°-180°	2.0	0.1
0°-180°	3105.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1501	1501	1501	1501	1501	
5°	1495	1490	1490	1494	1495	142
15°	1430	1416	1414	1426	1430	403
25°	1294	1276	1270	1286	1294	595
35°	1090	1073	1062	1074	1090	680
45°	815	810	788	788	815	625
55°	487	482	468	451	487	436
65°	206	208	195	179	206	207
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°	1501.1	1501.1	1501.1	1501.1	1501.1	1501.1	1501.1	1501.1	1501.1	1501.1	1501.1
0.5°	1501.6	1501.1	1501.1	1500.9	1500.9	1500.9	1500.7	1500.7	1500.8	1500.8	1500.9
1°	1501.2	1501.0	1500.7	1500.4	1500.4	1500.4	1500.1	1500.1	1500.3	1500.4	1500.6
1.5°	1501.0	1500.9	1500.2	1499.8	1499.4	1499.3	1499.4	1499.3	1499.4	1499.8	1500.1
2°	1500.9	1500.5	1499.6	1499.1	1498.7	1498.5	1498.4	1498.2	1498.3	1498.8	1499.5
2.5°	1500.0	1499.7	1498.8	1498.2	1497.6	1497.4	1497.0	1497.0	1497.4	1497.6	1498.8
3°	1499.1	1498.9	1498.0	1497.0	1496.4	1496.1	1495.7	1495.6	1495.9	1496.8	1497.8
3.5°	1498.4	1498.2	1496.9	1495.7	1495.2	1494.7	1494.3	1494.1	1494.5	1495.8	1496.7
4°	1497.4	1496.8	1495.5	1494.3	1493.7	1493.0	1492.7	1492.7	1493.0	1494.2	1495.3
4.5°	1496.3	1495.5	1494.0	1492.6	1491.9	1491.0	1490.7	1491.1	1491.5	1492.9	1493.7
5°	1495.0	1493.9	1492.3	1490.7	1490.0	1489.2	1488.8	1489.0	1489.6	1490.7	1492.1
5.5°	1493.4	1492.1	1490.6	1488.5	1487.7	1487.0	1486.4	1486.6	1487.9	1488.6	1490.2
6°	1491.8	1490.4	1488.8	1486.6	1485.5	1484.8	1484.2	1484.3	1485.2	1486.6	1488.1
6.5°	1490.0	1488.3	1486.5	1484.4	1483.1	1482.3	1481.6	1481.6	1482.7	1484.3	1486.0
7°	1488.2	1486.3	1484.1	1482.0	1480.5	1479.6	1478.8	1479.1	1480.2	1481.7	1483.6
7.5°	1485.1	1483.9	1481.1	1479.4	1477.7	1476.8	1476.0	1476.0	1477.3	1478.8	1480.9
8°	1483.0	1481.3	1478.6	1476.6	1474.8	1473.7	1472.8	1472.8	1474.3	1476.0	1478.1
8.5°	1480.3	1478.6	1475.7	1473.7	1471.6	1470.5	1469.8	1469.9	1471.1	1472.9	1475.0
9°	1477.7	1475.7	1472.7	1470.3	1468.4	1467.1	1466.3	1466.6	1467.7	1469.7	1471.9
9.5°	1474.8	1472.7	1469.4	1467.0	1465.0	1463.5	1462.7	1463.0	1464.2	1466.2	1469.0
10°	1471.6	1469.6	1466.2	1463.5	1461.4	1459.8	1458.9	1459.2	1460.6	1462.6	1465.8
10.5°	1468.2	1466.2	1462.7	1459.8	1457.6	1455.6	1454.9	1455.4	1456.7	1458.9	1462.1
11°	1464.7	1462.6	1459.2	1456.0	1453.8	1451.5	1450.8	1451.6	1452.7	1455.1	1458.1
11.5°	1461.2	1458.7	1455.3	1452.1	1449.7	1447.3	1446.4	1447.4	1448.7	1451.0	1454.1
12°	1457.3	1454.8	1451.1	1447.4	1445.4	1442.7	1441.8	1443.0	1444.4	1446.7	1450.0
12.5°	1453.5	1450.7	1446.9	1443.2	1441.0	1438.4	1437.4	1438.4	1439.8	1442.3	1445.6
13°	1448.9	1446.5	1442.5	1438.6	1436.3	1433.5	1432.7	1433.5	1435.2	1437.7	1441.0
13.5°	1444.3	1442.1	1437.9	1434.0	1431.6	1428.7	1427.6	1428.5	1430.1	1432.8	1436.4
14°	1439.8	1437.5	1433.2	1429.1	1426.6	1423.8	1422.6	1423.3	1425.2	1427.6	1431.5
14.5°	1435.3	1432.8	1428.4	1423.9	1421.3	1418.8	1417.4	1418.0	1419.9	1422.5	1426.4
15°	1430.1	1427.6	1423.2	1418.6	1416.2	1413.2	1411.8	1412.7	1414.4	1417.2	1421.2
15.5°	1425.0	1422.4	1417.8	1413.1	1410.8	1407.9	1406.3	1406.9	1408.8	1411.7	1415.8
16°	1419.8	1417.1	1412.4	1407.7	1405.0	1402.3	1400.2	1401.2	1403.1	1406.1	1410.3
16.5°	1414.6	1411.6	1407.0	1401.9	1399.0	1396.2	1394.4	1395.4	1397.0	1400.3	1404.7
17°	1408.9	1405.8	1401.0	1395.9	1393.0	1390.3	1388.3	1388.9	1391.1	1394.3	1398.6
17.5°	1403.0	1399.7	1395.2	1390.0	1387.2	1383.9	1381.9	1382.6	1384.6	1387.9	1392.3
18°	1397.1	1393.6	1388.8	1383.7	1381.1	1377.5	1375.6	1376.3	1378.2	1381.5	1385.9
18.5°	1390.8	1387.0	1382.6	1377.2	1374.6	1370.7	1368.9	1369.5	1371.5	1374.9	1379.6
19°	1384.6	1380.7	1376.2	1370.4	1367.7	1364.1	1362.1	1362.4	1364.7	1368.2	1372.8
19.5°	1378.2	1374.4	1369.8	1364.1	1361.1	1357.3	1355.1	1355.4	1357.7	1361.6	1366.2
20°	1371.4	1367.9	1362.8	1357.1	1355.9	1350.2	1348.2	1348.5	1350.6	1354.5	1359.2
20.5°	1364.1	1361.0	1355.9	1350.2	1347.1	1343.3	1340.6	1341.3	1343.5	1347.1	1352.0
21°	1357.0	1353.8	1348.6	1343.1	1339.8	1336.0	1333.2	1333.8	1335.9	1339.8	1344.5
21.5°	1349.9	1346.6	1341.4	1335.6	1332.3	1328.2	1325.3	1326.2	1328.1	1332.3	1336.9
22°	1342.2	1339.2	1333.8	1328.3	1325.0	1320.5	1317.9	1318.6	1320.3	1324.7	1329.4



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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°	1334.6	1331.5	1326.5	1320.5	1317.3	1312.9	1310.2	1310.7	1312.4	1316.6	1321.4
23°	1327.2	1323.8	1318.5	1312.6	1309.4	1304.8	1302.3	1302.4	1304.5	1308.6	1313.4
23.5°	1319.1	1315.9	1310.4	1304.3	1301.3	1296.5	1294.0	1293.9	1296.0	1300.3	1305.1
24°	1310.8	1307.6	1302.1	1296.2	1292.9	1288.1	1285.5	1285.4	1287.4	1291.9	1296.8
24.5°	1302.8	1299.5	1293.9	1287.6	1284.8	1279.8	1277.1	1276.7	1278.8	1283.1	1288.3
25°	1294.2	1291.0	1285.4	1279.0	1276.1	1271.1	1267.9	1268.0	1270.2	1274.3	1279.3
25.5°	1285.3	1282.5	1276.5	1270.4	1267.3	1262.1	1259.3	1259.2	1261.1	1265.7	1270.9
26°	1276.6	1273.8	1267.7	1261.8	1258.5	1252.9	1250.2	1250.0	1252.0	1256.5	1262.1
26.5°	1267.6	1264.6	1258.9	1252.9	1249.6	1244.5	1240.9	1240.7	1242.6	1247.1	1252.5
27°	1258.1	1255.6	1249.7	1243.8	1240.1	1234.6	1231.3	1231.3	1233.4	1237.6	1243.1
27.5°	1248.9	1246.0	1240.3	1234.4	1231.4	1225.5	1222.3	1221.7	1223.7	1227.8	1233.6
28°	1239.4	1236.6	1230.3	1225.0	1221.6	1216.0	1212.1	1211.9	1214.0	1218.4	1223.7
28.5°	1229.7	1226.9	1221.2	1215.1	1212.5	1206.2	1202.5	1202.2	1204.0	1208.2	1213.8
29°	1220.1	1217.3	1211.6	1205.5	1202.4	1196.5	1192.5	1191.8	1194.2	1198.3	1203.8
29.5°	1210.0	1207.3	1201.4	1195.6	1192.5	1186.6	1182.4	1182.0	1184.1	1188.2	1193.7
30°	1200.0	1197.2	1191.5	1185.4	1182.2	1176.6	1172.0	1171.8	1173.8	1177.9	1183.1
30.5°	1189.6	1186.8	1180.9	1175.2	1171.9	1166.1	1161.8	1161.2	1163.1	1167.1	1172.4
31°	1178.9	1176.5	1170.6	1164.8	1161.5	1155.6	1151.0	1150.7	1152.4	1156.6	1162.0
31.5°	1168.3	1165.7	1160.2	1154.1	1151.1	1144.7	1140.0	1139.8	1141.6	1145.8	1151.1
32°	1157.8	1155.2	1149.6	1143.7	1140.3	1134.0	1129.0	1129.0	1130.8	1135.0	1140.2
32.5°	1146.5	1144.2	1138.4	1132.7	1129.6	1123.5	1118.8	1118.1	1119.7	1123.8	1129.1
33°	1135.6	1133.3	1127.6	1121.7	1118.8	1112.1	1107.6	1107.0	1108.6	1112.6	1117.3
33.5°	1124.7	1121.9	1116.3	1110.5	1107.5	1100.9	1096.3	1095.6	1097.0	1100.9	1105.8
34°	1113.2	1110.7	1105.4	1099.5	1096.3	1089.5	1085.0	1084.0	1085.6	1089.5	1094.3
34.5°	1101.3	1098.8	1093.5	1088.1	1084.7	1078.4	1073.5	1072.4	1073.9	1077.5	1082.5
35°	1089.6	1087.5	1082.2	1076.4	1073.1	1066.7	1061.8	1060.7	1062.1	1065.9	1071.0
35.5°	1077.5	1075.5	1070.5	1064.8	1061.6	1055.1	1050.3	1048.8	1050.4	1053.8	1058.8
36°	1065.7	1063.9	1058.6	1052.9	1049.6	1042.8	1038.0	1036.6	1038.4	1041.7	1046.6
36.5°	1053.5	1051.6	1046.4	1040.9	1037.7	1031.2	1025.9	1024.7	1026.1	1029.5	1034.3
37°	1041.1	1039.4	1034.6	1028.5	1025.3	1018.6	1013.6	1012.3	1013.6	1016.9	1021.9
37.5°	1028.5	1026.8	1022.4	1016.2	1013.1	1006.6	1001.5	1000.2	1001.1	1004.3	1009.1
38°	1015.9	1014.3	1009.5	1003.8	1000.4	994.0	988.7	987.9	988.5	991.8	996.3
38.5°	1003.2	1001.3	996.8	991.2	987.8	981.5	976.2	975.2	976.0	978.7	983.4
39°	990.4	988.7	984.6	978.8	975.6	968.6	963.6	962.2	963.1	966.0	970.6
39.5°	977.2	975.6	971.8	965.7	962.8	956.3	950.8	949.5	950.1	952.9	957.3
40°	963.9	962.8	958.7	952.8	950.0	943.2	937.7	936.5	937.0	940.1	944.2
40.5°	950.8	949.7	945.4	939.8	937.0	930.2	925.1	923.6	924.2	926.7	930.5
41°	937.6	936.7	932.4	926.6	923.9	917.0	912.0	910.4	910.8	912.9	916.7
41.5°	923.4	923.2	919.2	913.3	910.9	904.3	898.9	897.4	896.8	898.3	901.9
42°	909.2	909.5	905.9	900.1	897.8	891.0	885.7	883.3	881.9	883.4	887.4
42.5°	894.3	894.7	892.3	886.4	884.5	877.5	871.5	868.7	867.1	868.1	871.7
43°	878.8	880.0	877.3	872.2	870.2	863.5	857.0	853.5	851.6	852.7	856.3
43.5°	862.8	864.6	862.0	857.2	855.8	848.6	841.9	838.2	836.0	837.0	840.4
44°	847.1	848.4	846.5	841.4	840.3	833.3	826.5	822.2	820.0	821.4	824.6
44.5°	830.8	832.1	830.9	825.8	825.2	817.8	810.9	806.5	804.1	805.1	808.2



TEST NUMBER: P640225

CATALOG NUMBER: LCR830RD9FSE040-33W-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	814.6	816.2	814.8	809.9	809.5	802.2	795.0	790.8	787.8	788.9	792.1
45.5°	798.3	799.8	798.4	794.2	793.4	786.3	779.5	774.6	771.9	772.7	775.9
46°	781.9	783.3	782.0	777.6	778.0	770.2	763.2	758.2	755.7	756.4	759.6
46.5°	764.9	766.8	765.5	761.5	761.0	753.9	746.8	742.2	739.5	740.1	742.8
47°	748.4	750.3	748.9	744.5	744.8	737.5	730.4	726.1	722.8	723.6	726.2
47.5°	731.5	733.6	732.0	727.6	728.3	721.1	714.3	710.0	706.9	707.4	709.7
48°	715.2	717.0	715.3	710.9	712.1	704.7	697.6	694.0	691.0	691.2	693.3
48.5°	698.8	700.2	698.5	694.5	695.5	688.2	680.8	677.9	675.1	675.0	676.8
49°	682.0	683.6	681.5	677.3	678.9	671.7	664.1	661.8	659.2	658.8	660.3
49.5°	665.6	666.9	665.6	661.0	662.3	655.2	647.3	645.7	643.2	642.6	643.9
50°	648.7	650.3	648.2	643.9	645.7	638.8	632.1	628.7	626.0	625.5	626.8
50.5°	632.0	633.8	631.5	627.0	628.8	622.3	615.7	612.1	609.9	609.1	610.2
51°	615.7	617.0	615.0	610.3	612.3	605.2	599.4	595.8	593.7	592.8	593.2
51.5°	599.2	600.7	598.4	594.0	595.7	588.9	583.2	579.7	578.1	576.9	576.8
52°	582.9	584.5	582.3	577.3	579.5	572.6	566.7	563.9	561.7	560.8	560.6
52.5°	566.7	568.4	565.6	560.9	562.7	556.1	550.4	547.7	545.7	544.5	544.2
53°	550.7	551.9	549.3	544.5	546.2	539.8	534.4	531.7	530.2	528.6	527.6
53.5°	534.5	535.8	533.1	528.3	529.6	523.3	518.7	516.1	514.4	512.6	511.4
54°	518.4	519.7	516.7	512.0	513.4	507.4	502.8	500.5	498.6	497.0	495.6
54.5°	503.0	504.2	501.2	496.1	497.3	491.7	486.9	485.2	483.1	481.5	479.6
55°	487.3	488.4	485.4	480.1	481.6	476.2	471.6	470.0	468.3	465.9	464.0
55.5°	471.1	473.3	469.7	464.2	465.5	460.6	456.1	454.7	452.8	450.8	448.0
56°	456.7	457.8	454.4	449.0	450.0	445.2	441.2	439.6	437.8	435.4	432.6
56.5°	441.3	442.7	439.3	433.8	434.5	429.8	425.9	424.6	422.8	420.4	417.5
57°	426.0	427.4	423.9	418.3	419.3	414.7	411.1	410.0	408.4	405.3	402.4
57.5°	410.7	412.9	409.0	403.2	404.1	399.8	396.3	395.6	393.6	390.6	387.4
58°	396.9	398.0	394.3	388.7	389.5	385.3	382.1	381.6	379.4	376.3	372.5
58.5°	382.2	383.7	379.9	374.1	375.0	370.7	367.6	367.1	365.3	362.1	358.3
59°	367.7	369.0	365.5	359.2	360.6	356.7	353.7	353.0	351.7	347.9	343.7
59.5°	353.0	355.1	351.4	345.5	346.5	342.5	339.5	339.2	337.3	334.0	329.5
60°	339.3	341.1	337.4	331.7	332.5	328.6	326.0	325.7	323.7	320.0	315.4
60.5°	324.6	327.7	322.0	318.4	318.8	315.3	312.4	312.3	310.4	306.6	301.8
61°	311.3	314.4	309.1	305.1	305.4	301.8	299.3	298.9	297.5	293.3	287.9
61.5°	298.0	301.1	296.1	291.7	292.3	288.6	286.4	286.2	284.1	280.2	274.7
62°	284.7	287.7	283.2	278.4	279.5	276.1	273.7	273.5	271.6	267.2	261.8
62.5°	271.3	274.4	270.2	265.1	266.8	263.4	261.0	261.0	258.5	254.5	248.8
63°	258.2	261.0	257.7	252.2	254.2	250.9	248.8	248.5	245.2	241.8	235.9
63.5°	245.3	248.5	245.4	240.5	242.1	238.8	236.7	236.3	232.4	229.6	223.9
64°	232.0	236.3	233.3	228.7	230.4	227.1	225.1	224.8	219.9	217.5	211.7
64.5°	219.2	224.4	221.6	217.0	218.8	215.7	213.4	213.0	207.1	205.4	200.0
65°	206.3	212.4	210.2	205.7	207.6	204.5	202.5	201.8	194.8	193.5	188.6
65.5°	193.8	200.7	198.7	194.8	196.6	193.5	191.4	190.6	182.9	182.1	177.5
66°	181.1	189.0	187.7	183.8	185.7	182.8	180.8	179.2	171.4	170.6	166.3
66.5°	169.4	177.8	177.0	173.4	175.3	172.7	170.4	168.4	160.6	159.7	155.7
67°	158.0	166.6	166.6	163.3	165.3	162.7	160.5	157.9	150.2	149.0	145.8



TEST NUMBER: P640225

CATALOG NUMBER: LCR830RD9FSE040-33W-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	147.6	155.9	156.6	153.6	155.6	153.0	150.6	147.6	140.0	139.0	136.1
68°	137.3	145.6	146.7	144.2	145.9	143.4	141.2	137.6	130.2	129.1	126.3
68.5°	127.6	135.4	137.2	134.9	137.1	134.7	132.2	127.9	120.9	119.9	117.3
69°	118.0	125.8	128.1	126.2	128.2	125.8	123.4	118.9	111.9	110.9	108.5
69.5°	108.5	116.5	119.4	117.6	119.7	117.4	114.8	110.3	103.2	102.3	100.2
70°	99.3	107.8	111.0	109.5	111.6	109.5	106.7	102.1	95.0	94.2	92.2
70.5°	90.7	99.5	102.8	101.8	103.9	102.0	99.2	94.3	88.1	87.4	85.3
71°	82.5	91.3	95.0	94.4	96.5	94.4	91.9	87.8	81.1	80.7	78.5
71.5°	74.9	83.8	87.8	87.3	89.5	88.2	85.7	81.3	74.1	73.9	71.6
72°	67.7	76.8	80.9	80.7	83.3	81.9	79.4	74.8	67.1	67.1	64.8
72.5°	61.4	70.1	74.1	74.4	77.1	75.7	73.2	68.4	60.2	60.4	59.4
73°	55.5	64.0	68.2	68.5	70.9	69.5	67.0	61.9	54.5	55.2	54.2
73.5°	50.3	58.5	62.6	63.0	64.8	63.3	60.8	56.6	50.0	50.6	49.6
74°	46.5	53.6	57.4	58.1	59.7	58.3	55.9	52.0	46.4	46.4	45.6
74.5°	43.0	49.2	52.6	53.3	55.0	53.7	51.3	47.7	42.7	42.7	42.1
75°	40.2	45.3	48.3	49.1	50.7	49.5	47.2	43.9	39.8	39.5	39.4
75.5°	38.1	41.8	44.6	45.4	46.8	45.7	43.6	40.5	37.6	37.2	37.4
76°	36.2	38.6	41.2	42.0	43.3	42.3	40.4	37.8	35.7	35.3	35.5
76.5°	34.3	36.4	38.5	39.2	40.3	39.5	38.1	35.8	33.8	33.4	33.6
77°	32.5	34.5	36.6	37.2	38.1	37.5	36.2	33.9	32.0	31.5	31.9
77.5°	30.8	32.5	34.8	35.5	36.3	35.7	34.4	32.1	30.2	29.7	30.1
78°	29.1	30.8	33.1	33.7	34.5	33.9	32.7	30.3	28.5	28.0	28.4
78.5°	27.4	29.1	31.4	32.1	32.7	32.2	30.9	28.6	26.8	26.3	26.8
79°	25.7	27.4	29.7	30.5	31.1	30.5	29.3	26.9	25.1	24.6	25.1
79.5°	24.0	25.7	28.1	28.8	29.4	28.9	27.6	25.2	23.5	23.0	23.6
80°	22.5	24.1	26.4	27.2	27.8	27.3	26.0	23.6	21.9	21.4	22.0
80.5°	20.9	22.5	24.8	25.6	26.2	25.7	24.4	22.0	20.4	19.9	20.5
81°	19.4	20.9	23.2	24.1	24.7	24.1	22.8	20.5	18.8	18.3	19.0
81.5°	17.9	19.4	21.6	22.5	23.1	22.7	21.3	19.0	17.3	16.8	17.5
82°	16.4	17.9	20.1	21.1	21.7	21.1	19.8	17.4	15.8	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	14.9	17.2	18.1	18.7	18.2	16.8	14.5	13.0	12.5	13.3
83.5°	12.2	13.5	15.8	16.7	17.3	16.8	15.4	13.1	11.6	11.1	11.9
84°	10.8	12.2	14.4	15.3	15.9	15.4	14.0	11.7	10.3	9.8	10.7
84.5°	9.5	10.8	13.1	14.0	14.5	14.1	12.7	10.4	9.1	8.6	9.4
85°	8.2	9.4	11.8	12.6	13.2	12.7	11.3	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	7.1	9.3	10.0	10.5	10.1	8.9	6.8	5.5	5.3	5.8
86.5°	4.9	6.0	8.0	8.7	9.3	8.8	7.7	5.7	4.3	4.1	4.5
87°	4.0	5.1	6.9	7.4	8.0	7.6	6.5	4.5	3.4	3.2	3.4
87.5°	3.2	4.1	5.7	6.2	6.7	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: P640225
 CATALOG NUMBER: LCR830RD9FSE040-33W-5000K

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	0.1	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°	0.1	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: P640225

CATALOG NUMBER: LCR830RD9FSE040-33W-5000K

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	0.3	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: P640225

CATALOG NUMBER: LCR830RD9FSE040-33W-5000K

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	0.6	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	0.7	0.7
150.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.7
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: P640225

CATALOG NUMBER: LCR830RD9FSE040-33W-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
157.5°	0.8	0.7	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	0.8	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	0.7	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	0.7	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°	0.8	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: P640225
CATALOG NUMBER: LCR830RD9FSE040-33W-5000K

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: P640225

CATALOG NUMBER: LCR830RD9FSE040-33W-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	1501.1	1501.1	1501.1	1501.1	1501.1	1501.1
0.5°	1501.6	1501.1	1500.9	1501.3	1501.5	1501.6
1°	1501.2	1500.9	1501.1	1501.5	1501.7	1501.2
1.5°	1500.8	1500.2	1500.9	1501.5	1501.5	1501.0
2°	1500.3	1499.8	1500.7	1501.3	1501.2	1500.9
2.5°	1499.7	1499.6	1500.1	1500.9	1500.7	1500.0
3°	1499.0	1498.8	1499.3	1500.3	1500.1	1499.1
3.5°	1498.2	1497.8	1498.6	1499.2	1499.3	1498.4
4°	1496.7	1496.8	1498.0	1498.3	1498.4	1497.4
4.5°	1495.4	1495.5	1496.4	1497.1	1497.3	1496.3
5°	1493.7	1494.2	1494.9	1495.8	1495.9	1495.0
5.5°	1491.9	1492.4	1493.4	1494.3	1494.5	1493.4
6°	1489.9	1490.5	1491.7	1492.7	1492.7	1491.8
6.5°	1487.9	1488.1	1489.7	1490.8	1490.7	1490.0
7°	1485.6	1485.6	1487.5	1488.7	1488.6	1488.2
7.5°	1483.0	1483.6	1485.4	1486.6	1486.4	1485.1
8°	1480.3	1480.8	1482.9	1484.1	1484.1	1483.0
8.5°	1477.9	1478.4	1480.4	1481.5	1481.2	1480.3
9°	1474.7	1475.4	1477.3	1478.9	1478.4	1477.7
9.5°	1471.7	1472.2	1474.3	1475.9	1475.7	1474.8
10°	1468.2	1468.9	1471.1	1472.6	1472.5	1471.6
10.5°	1464.9	1465.7	1467.7	1468.9	1469.3	1468.2
11°	1461.4	1462.0	1464.2	1465.6	1466.0	1464.7
11.5°	1457.3	1458.2	1460.1	1461.9	1462.1	1461.2
12°	1453.2	1454.3	1456.1	1458.1	1458.3	1457.3
12.5°	1449.0	1449.9	1452.2	1454.0	1454.0	1453.5
13°	1444.4	1445.3	1448.0	1450.0	1449.9	1448.9
13.5°	1440.2	1440.9	1443.6	1445.6	1445.6	1444.3
14°	1435.6	1436.1	1439.0	1441.0	1440.9	1439.8
14.5°	1430.8	1431.3	1434.1	1436.2	1436.2	1435.3
15°	1425.4	1426.0	1428.9	1431.5	1431.5	1430.1
15.5°	1420.3	1421.2	1423.7	1426.0	1426.2	1425.0
16°	1414.9	1415.6	1418.7	1420.9	1421.1	1419.8
16.5°	1409.0	1410.1	1413.1	1415.2	1415.6	1414.6
17°	1403.3	1404.0	1407.2	1409.5	1410.0	1408.9
17.5°	1397.5	1398.1	1401.2	1403.6	1404.2	1403.0
18°	1391.1	1392.1	1395.1	1397.7	1398.2	1397.1
18.5°	1384.8	1385.5	1388.7	1391.4	1392.0	1390.8
19°	1378.2	1379.1	1382.3	1384.9	1385.4	1384.6
19.5°	1371.6	1372.4	1375.4	1378.3	1378.7	1378.2
20°	1364.8	1365.7	1368.6	1371.7	1372.3	1371.4
20.5°	1357.6	1358.5	1361.7	1364.7	1365.1	1364.1
21°	1350.3	1350.9	1354.4	1357.7	1358.0	1357.0
21.5°	1342.8	1343.7	1346.9	1350.0	1351.3	1349.9
22°	1335.0	1336.1	1339.2	1342.7	1343.2	1342.2

TEST NUMBER: P640225

CATALOG NUMBER: LCR830RD9FSE040-33W-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	1327.2	1328.1	1331.5	1335.2	1335.4	1334.6
23°	1319.4	1320.1	1323.5	1327.0	1327.9	1327.2
23.5°	1311.3	1311.7	1315.4	1319.2	1320.1	1319.1
24°	1302.9	1303.5	1307.2	1310.7	1311.8	1310.8
24.5°	1294.5	1294.8	1298.5	1302.4	1303.0	1302.8
25°	1285.7	1286.3	1289.9	1293.7	1294.8	1294.2
25.5°	1277.0	1277.1	1280.9	1284.8	1286.1	1285.3
26°	1267.9	1269.3	1271.9	1276.1	1277.3	1276.6
26.5°	1258.6	1258.8	1263.0	1266.7	1268.1	1267.6
27°	1249.3	1249.6	1253.3	1257.6	1259.1	1258.1
27.5°	1239.9	1239.6	1243.7	1248.0	1249.9	1248.9
28°	1230.0	1229.8	1233.6	1238.3	1239.9	1239.4
28.5°	1219.9	1219.9	1223.7	1228.2	1230.3	1229.7
29°	1209.9	1209.7	1214.0	1218.3	1220.1	1220.1
29.5°	1199.5	1199.3	1203.3	1208.1	1210.3	1210.0
30°	1189.3	1189.0	1193.0	1197.8	1199.7	1200.0
30.5°	1178.7	1178.5	1182.1	1187.3	1189.2	1189.6
31°	1168.2	1167.5	1171.4	1176.4	1179.1	1178.9
31.5°	1157.1	1156.4	1160.4	1165.6	1168.4	1168.3
32°	1146.0	1145.4	1148.8	1154.6	1157.4	1157.8
32.5°	1135.0	1134.2	1137.6	1143.5	1146.4	1146.5
33°	1123.6	1122.5	1126.4	1131.8	1135.3	1135.6
33.5°	1112.1	1110.8	1114.8	1120.4	1123.9	1124.7
34°	1100.3	1098.9	1102.8	1108.7	1112.2	1113.2
34.5°	1088.6	1086.8	1090.7	1096.9	1100.6	1101.3
35°	1076.4	1074.4	1078.7	1084.5	1088.7	1089.6
35.5°	1064.2	1062.2	1066.4	1072.5	1076.9	1077.5
36°	1052.0	1049.9	1053.5	1060.1	1064.4	1065.7
36.5°	1039.3	1037.2	1041.2	1047.7	1052.2	1053.5
37°	1026.6	1024.3	1028.4	1034.6	1039.6	1041.1
37.5°	1014.0	1011.3	1015.3	1021.9	1026.8	1028.5
38°	1001.0	998.1	1001.5	1008.9	1013.9	1015.9
38.5°	987.8	984.8	988.6	995.6	1001.2	1003.2
39°	974.6	971.8	975.4	982.6	988.3	990.4
39.5°	961.4	958.1	961.8	969.1	974.8	977.2
40°	948.2	944.2	948.1	955.5	961.5	963.9
40.5°	934.5	930.1	934.4	941.9	948.2	950.8
41°	920.1	915.7	919.6	927.9	934.7	937.6
41.5°	905.3	900.5	904.8	913.3	920.4	923.4
42°	890.2	885.3	889.4	898.2	905.6	909.2
42.5°	875.0	870.0	874.0	882.9	890.1	894.3
43°	859.6	854.1	857.7	867.2	874.4	878.8
43.5°	843.4	837.9	842.1	851.1	858.6	862.8
44°	827.4	821.2	824.7	834.8	842.4	847.1
44.5°	811.3	805.2	808.7	818.4	826.3	830.8

TEST NUMBER: P640225

CATALOG NUMBER: LCR830RD9FSE040-33W-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	794.9	788.4	791.8	801.7	809.9	814.6
45.5°	778.6	771.4	774.8	785.0	793.5	798.3
46°	761.6	754.6	757.7	768.2	776.9	781.9
46.5°	745.0	737.6	740.9	750.9	760.1	764.9
47°	728.5	720.1	723.4	733.9	743.4	748.4
47.5°	712.1	703.4	706.3	716.7	726.5	731.5
48°	695.1	685.9	689.1	699.8	709.8	715.2
48.5°	678.2	668.7	671.7	682.6	693.2	698.8
49°	661.2	651.3	654.7	665.1	676.4	682.0
49.5°	644.2	634.5	637.1	648.1	659.3	665.6
50°	627.5	617.3	619.6	630.8	642.5	648.7
50.5°	610.3	599.7	603.1	613.8	625.9	632.0
51°	593.4	582.8	586.0	596.6	609.3	615.7
51.5°	576.3	566.0	569.1	579.9	592.2	599.2
52°	560.0	549.1	551.9	563.4	576.0	582.9
52.5°	542.9	532.4	535.5	546.8	559.4	566.7
53°	526.4	515.6	519.0	530.1	543.0	550.7
53.5°	509.7	498.9	502.8	513.4	526.3	534.5
54°	493.7	482.8	485.7	497.1	510.4	518.4
54.5°	477.1	467.0	470.2	481.3	494.4	503.0
55°	461.2	451.3	454.4	465.4	478.6	487.3
55.5°	445.7	435.0	438.8	449.3	462.7	471.1
56°	429.4	419.6	423.1	433.9	447.5	456.7
56.5°	413.6	404.5	408.1	418.7	431.7	441.3
57°	398.3	389.0	392.7	403.5	416.9	426.0
57.5°	383.8	374.0	377.5	388.3	401.7	410.7
58°	368.3	359.5	363.4	373.9	387.0	396.9
58.5°	353.7	344.9	348.7	359.1	371.8	382.2
59°	339.1	330.8	334.8	344.5	358.0	367.7
59.5°	325.2	317.1	326.5	330.4	343.5	353.0
60°	310.6	303.3	311.5	316.8	329.7	339.3
60.5°	296.9	289.6	296.4	303.3	316.0	324.6
61°	283.4	275.9	281.4	289.8	302.3	311.3
61.5°	270.5	262.1	266.4	276.3	288.6	298.0
62°	257.1	249.8	253.6	262.7	275.0	284.7
62.5°	244.3	237.1	240.7	249.8	261.3	271.3
63°	231.7	224.9	228.8	237.6	248.7	258.2
63.5°	219.5	213.0	216.8	225.3	236.2	245.3
64°	207.5	201.4	205.2	213.4	224.0	232.0
64.5°	196.0	189.9	193.7	201.9	211.9	219.2
65°	184.7	179.0	182.7	190.6	200.4	206.3
65.5°	173.8	168.2	171.9	179.3	189.0	193.8
66°	163.1	157.6	161.4	168.6	177.6	181.1
66.5°	152.6	147.4	151.2	158.2	166.5	169.4
67°	142.7	137.8	141.2	148.1	155.3	158.0

TEST NUMBER: P640225

CATALOG NUMBER: LCR830RD9FSE040-33W-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	133.1	128.3	131.7	138.4	144.8	147.6
68°	123.8	119.2	122.7	128.9	134.7	137.3
68.5°	114.9	110.4	113.8	119.8	125.0	127.6
69°	106.2	102.1	105.3	111.0	115.8	118.0
69.5°	98.0	94.1	97.1	102.6	106.8	108.5
70°	90.3	86.5	89.4	94.8	98.5	99.3
70.5°	83.6	79.4	82.2	87.1	90.5	90.7
71°	76.9	72.7	75.4	79.9	82.7	82.5
71.5°	70.2	66.5	69.0	73.2	75.8	74.9
72°	63.5	60.9	63.1	67.0	69.1	67.7
72.5°	58.1	55.6	57.6	61.2	63.0	61.4
73°	53.1	50.9	52.6	55.8	57.5	55.5
73.5°	48.7	46.8	48.3	51.0	52.6	50.3
74°	45.0	43.3	44.5	46.7	48.0	46.5
74.5°	41.7	40.3	41.2	43.0	44.0	43.0
75°	39.2	38.2	38.7	39.8	40.4	40.2
75.5°	37.2	36.3	36.9	37.7	37.7	38.1
76°	35.3	34.5	35.0	35.8	35.6	36.2
76.5°	33.5	32.5	33.2	33.9	33.7	34.3
77°	31.8	30.9	31.5	32.2	32.0	32.5
77.5°	30.1	29.3	29.9	30.5	30.2	30.8
78°	28.4	27.6	28.2	28.8	28.5	29.1
78.5°	26.7	26.0	26.6	27.1	26.8	27.4
79°	25.1	24.5	24.9	25.4	25.0	25.7
79.5°	23.6	22.9	23.3	23.8	23.4	24.0
80°	22.1	21.4	21.8	22.2	21.8	22.5
80.5°	20.6	19.9	20.4	20.8	20.3	20.9
81°	19.1	18.4	18.9	19.3	18.7	19.4
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	16.4
82.5°	14.8	14.1	14.6	15.0	14.3	15.0
83°	13.4	12.8	13.2	13.5	12.9	13.6
83.5°	12.0	11.4	11.9	12.2	11.5	12.2
84°	10.7	10.1	10.5	10.9	10.2	10.8
84.5°	9.5	8.9	9.3	9.7	8.9	9.5
85°	8.2	7.5	8.0	8.4	7.7	8.2
85.5°	6.9	6.3	6.7	7.3	6.6	7.0
86°	5.7	5.1	5.5	6.0	5.6	6.0
86.5°	4.4	3.9	4.3	4.9	4.7	4.9
87°	3.2	2.9	3.1	3.7	3.7	4.0
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: P640225

CATALOG NUMBER: LCR830RD9FSE040-33W-5000K

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	0.2
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	0.1	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: P640225

CATALOG NUMBER: LCR830RD9FSE040-33W-5000K

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	0.3	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: P640225

CATALOG NUMBER: LCR830RD9FSE040-33W-5000K

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	0.5	0.5	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°	0.6	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	0.6	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: P640225

CATALOG NUMBER: LCR830RD9FSE040-33W-5000K

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	0.7	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	0.7	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	0.8
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: P640225
CATALOG NUMBER: LCR830RD9FSE040-33W-5000K

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)