

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P201359

Luminaire Tested: **4LBLED-LD4-7-ASYMW-UNV-L850-CD2-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P201359  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28229)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4LBLED-LD4-7-ASYMW-UNV-L850-CD2-U  
Description: 4 ft. Low Bay Linear, 7000 lm, Wht Asym lens, 5K  
Light Source: (308) 5000K CCT, 80 CRI LEDS  
2UT217098A8504C, 2UT217056A8504B  
Ballast/Driver: OSRAM  
OT50W0800CC, OT30W0440CC

**Summary**

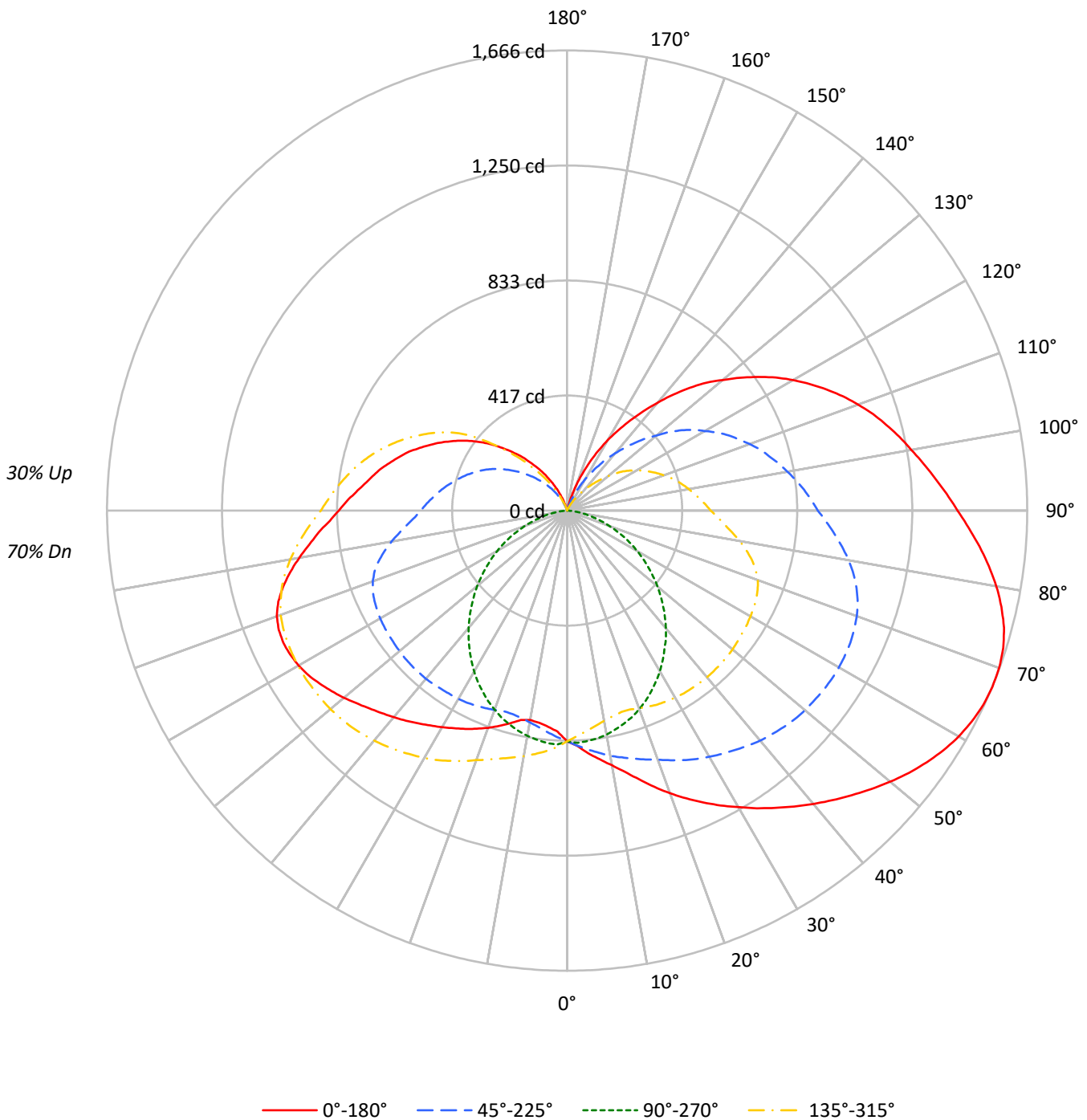
Lumens per Lamp: N/A  
Luminaire Lumens: 7602.8 lumens  
Efficiency: N/A  
Efficacy: 134.8 lumens/watt  
Spacing Criteria (0/90/45): 2.07 / 1.2 / 1.84  
Luminous Opening: Rectangular w/ Sides (W: 4' x L: 0.17' x H: 0.21')  
CIE Type: Semi-Direct  
  
Input Watts (W): 56.4  
Input Voltage (V): NR  
Input 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: 25 FT



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### Luminous Intensity Polar Plot





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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	112	112	112	112	106	106	106	106	95	95	95	84	84	84	75	75	75	70				
1	97	90	84	79	91	85	80	75	75	71	67	66	63	60	58	55	53	48				
2	86	76	68	60	81	72	64	57	63	57	51	55	50	46	48	44	40	36				
3	78	65	56	48	72	61	53	46	54	47	41	47	41	36	41	36	32	28				
4	70	57	47	39	65	53	44	37	47	39	33	41	35	30	35	30	26	23				
5	64	50	40	33	60	47	38	31	41	34	28	36	30	25	31	26	22	19				
6	59	44	35	28	55	42	33	26	37	29	24	32	26	21	28	23	19	16				
7	54	40	30	24	50	37	29	23	33	26	21	29	23	18	25	20	16	14				
8	50	36	27	21	47	34	26	20	30	23	18	27	21	16	23	18	14	12				
9	47	33	24	18	44	31	23	18	27	21	16	24	18	14	21	16	13	10				
10	44	30	22	16	41	28	21	16	25	19	14	22	17	13	20	15	11	9				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	13457	13457	13457	13457
5°	12873	13492	11462	13596
10°	12564	13360	10330	13435
15°	12598	13128	9969	13205
20°	12849	12866	9876	12911
25°	13116	12528	9811	12559
30°	13418	12130	9804	12163
35°	13808	11650	9879	11686
40°	14262	11208	10044	11190
45°	14789	10658	10278	10616
50°	15408	10077	10642	10032
55°	16069	9412	11047	9339
60°	16707	8659	11458	8633
65°	17270	7783	11775	7783
70°	17736	6707	11920	6670
75°	18052	5433	11737	5433
80°	18162	3798	11334	3934
85°	18191	1728	10957	2053



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.8	1.0
10°-20°	240.4	3.2
20°-30°	404.8	5.3
30°-40°	561.8	7.4
40°-50°	702.7	9.2
50°-60°	816.3	10.7
60°-70°	883.4	11.6
70°-80°	869.2	11.4
80°-90°	771.4	10.1
90°-100°	666.5	8.8
100°-110°	562.0	7.4
110°-120°	440.4	5.8
120°-130°	309.3	4.1
130°-140°	182.9	2.4
140°-150°	84.3	1.1
150°-160°	25.3	0.3
160°-170°	2.3	0.0
170°-180°	0.0	0.0
0°-30°	725.0	9.5
0°-40°	1286.7	16.9
0°-60°	2805.7	36.9
0°-90°	5329.7	70.1
90°-120°	1668.8	22.0
90°-150°	2245.4	29.5
90°-180°	2273.0	29.9
0°-180°	7602.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	835	835	835	835	835	
5°	883	838	786	844	883	86
15°	1007	798	797	803	1007	288
25°	1166	722	872	724	1166	542
35°	1314	614	940	616	1314	827
45°	1457	492	1013	490	1457	1130
55°	1589	360	1093	357	1589	1424
65°	1663	227	1134	227	1663	1646
75°	1638	104	1065	104	1638	1725
85°	1499	15	903	18	1499	1241
90°	1414	0	827	1	1414	775
95°	1337	0	767	1	1337	1078
105°	1197	0	666	1	1197	1266
115°	1037	0	557	1	1037	1029
125°	844	0	441	1	844	758
135°	629	0	313	1	629	488
145°	398	0	191	1	398	253
155°	192	0	81	1	192	93
165°	31	0	4	2	31	12
175°	0	0	0	2	0	0
180°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1
2.5°	852.8	852.5	852.2	851.9	851.6	851.2	850.9	850.6	850.3	850.0	850.2
5°	882.6	881.6	880.5	879.5	878.5	877.4	876.4	875.4	874.3	873.3	872.8
7.5°	908.6	907.3	905.9	904.6	903.2	901.9	900.5	899.2	897.8	896.5	895.2
10°	936.5	934.6	932.8	930.9	929.1	927.2	925.4	923.5	921.7	919.8	917.8
12.5°	969.0	966.5	964.0	961.6	959.1	956.6	954.1	951.7	949.2	946.7	943.2
15°	1007.2	1004.1	1001.0	997.9	994.8	991.7	988.6	985.5	982.4	979.3	973.8
17.5°	1049.0	1045.1	1041.2	1037.2	1033.3	1029.4	1025.5	1021.5	1017.6	1013.7	1006.1
20°	1089.0	1084.2	1079.5	1074.7	1070.0	1065.2	1060.5	1055.7	1051.0	1046.2	1036.6
22.5°	1128.1	1122.6	1117.1	1111.7	1106.2	1100.7	1095.2	1089.8	1084.3	1078.8	1067.6
25°	1166.2	1160.2	1154.2	1148.2	1142.2	1136.3	1130.3	1124.3	1118.3	1112.3	1099.5
27.5°	1203.4	1196.9	1190.4	1183.9	1177.4	1170.8	1164.3	1157.8	1151.3	1144.8	1130.2
30°	1239.7	1232.6	1225.4	1218.3	1211.2	1204.0	1196.9	1189.8	1182.6	1175.5	1159.3
32.5°	1277.8	1269.8	1261.9	1253.9	1246.0	1238.0	1230.1	1222.1	1214.2	1206.2	1188.2
35°	1314.1	1305.4	1296.7	1288.1	1279.4	1270.7	1262.0	1253.4	1244.7	1236.0	1216.3
37.5°	1350.3	1340.9	1331.5	1322.1	1312.7	1303.3	1293.9	1284.5	1275.1	1265.7	1244.3
40°	1386.6	1376.5	1366.4	1356.2	1346.1	1336.0	1325.9	1315.7	1305.6	1295.5	1272.4
42.5°	1422.0	1411.1	1400.3	1389.4	1378.6	1367.7	1356.9	1346.0	1335.2	1324.3	1299.2
45°	1457.3	1445.6	1433.9	1422.3	1410.6	1398.9	1387.2	1375.6	1363.9	1352.2	1325.1
47.5°	1492.6	1480.1	1467.6	1455.1	1442.6	1430.1	1417.6	1405.1	1392.6	1380.1	1351.0
50°	1527.0	1513.7	1500.4	1487.0	1473.7	1460.4	1447.1	1433.7	1420.4	1407.1	1375.7
52.5°	1559.6	1545.4	1531.3	1517.1	1503.0	1488.8	1474.7	1460.5	1446.4	1432.2	1398.4
55°	1589.4	1574.5	1559.6	1544.7	1529.8	1515.0	1500.1	1485.2	1470.3	1455.4	1419.5
57.5°	1615.4	1600.0	1584.6	1569.2	1553.8	1538.4	1523.0	1507.6	1492.2	1476.8	1438.9
60°	1636.8	1621.1	1605.4	1589.7	1574.0	1558.2	1542.5	1526.8	1511.1	1495.4	1455.5
62.5°	1652.6	1636.6	1620.6	1604.5	1588.5	1572.5	1556.5	1540.4	1524.4	1508.4	1466.9
65°	1662.8	1646.7	1630.6	1614.4	1598.3	1582.2	1566.1	1549.9	1533.8	1517.7	1474.8
67.5°	1666.5	1650.4	1634.3	1618.2	1602.1	1585.9	1569.8	1553.7	1537.6	1521.5	1477.5
70°	1664.7	1648.6	1632.5	1616.3	1600.2	1584.1	1568.0	1551.8	1535.7	1519.6	1474.8
72.5°	1655.4	1639.2	1623.0	1606.7	1590.5	1574.3	1558.1	1541.8	1525.6	1509.4	1464.2
75°	1637.7	1621.7	1605.7	1589.7	1573.7	1557.6	1541.6	1525.6	1509.6	1493.6	1448.2
77.5°	1610.7	1595.0	1579.3	1563.6	1547.9	1532.2	1516.5	1500.8	1485.1	1469.4	1424.1
80°	1578.2	1562.7	1547.2	1531.7	1516.2	1500.7	1485.2	1469.7	1454.2	1438.7	1393.9
82.5°	1540.1	1524.8	1509.5	1494.2	1478.9	1463.6	1448.3	1433.0	1417.7	1402.4	1358.2
85°	1499.1	1484.0	1468.9	1453.9	1438.8	1423.7	1408.6	1393.6	1378.5	1363.4	1319.9
87.5°	1455.4	1440.5	1425.6	1410.8	1395.9	1381.0	1366.1	1351.3	1336.4	1321.5	1279.0
90°	1413.6	1398.7	1383.8	1369.0	1354.1	1339.2	1324.3	1309.5	1294.6	1279.7	1238.4
92.5°	1375.5	1361.1	1346.8	1332.4	1318.0	1303.7	1289.3	1274.9	1260.6	1246.2	1206.0
95°	1337.3	1323.5	1309.6	1295.8	1281.9	1268.1	1254.2	1240.4	1226.5	1212.7	1173.6
97.5°	1301.1	1287.6	1274.0	1260.5	1246.9	1233.4	1219.8	1206.3	1192.7	1179.2	1141.1
100°	1265.7	1252.4	1239.0	1225.7	1212.4	1199.0	1185.7	1172.4	1159.0	1145.7	1108.4
102.5°	1232.2	1219.1	1206.0	1192.8	1179.7	1166.6	1153.5	1140.3	1127.2	1114.1	1077.5
105°	1196.9	1184.0	1171.1	1158.1	1145.2	1132.3	1119.4	1106.4	1093.5	1080.6	1044.7
107.5°	1161.6	1148.7	1135.8	1122.8	1109.9	1097.0	1084.1	1071.1	1058.2	1045.3	1010.7
110°	1121.6	1108.9	1096.2	1083.5	1070.8	1058.0	1045.3	1032.6	1019.9	1007.2	973.4



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**CANDELA DISTRIBUTION (continued):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
112.5°	1080.6	1068.6	1056.6	1044.7	1032.7	1020.7	1008.7	996.8	984.8	972.8	939.5
115°	1036.9	1025.2	1013.5	1001.9	990.2	978.5	966.8	955.2	943.5	931.8	899.9
117.5°	991.4	980.0	968.7	957.3	945.9	934.6	923.2	911.8	900.5	889.1	858.3
120°	944.9	933.8	922.8	911.7	900.7	889.6	878.6	867.5	856.5	845.4	815.4
122.5°	896.5	885.9	875.2	864.6	853.9	843.3	832.6	822.0	811.3	800.7	772.2
125°	843.5	833.6	823.7	813.7	803.8	793.9	784.0	774.0	764.1	754.2	726.7
127.5°	789.6	780.3	771.0	761.7	752.4	743.1	733.8	724.5	715.2	705.9	679.4
130°	735.6	726.8	718.0	709.3	700.5	691.7	682.9	674.2	665.4	656.6	630.6
132.5°	686.3	677.3	668.3	659.3	650.3	641.4	632.4	623.4	614.4	605.4	581.1
135°	628.7	620.2	611.7	603.3	594.8	586.3	577.8	569.4	560.9	552.4	529.5
137.5°	570.1	561.9	553.8	545.6	537.4	529.3	521.1	512.9	504.8	496.6	475.6
140°	509.6	502.4	495.1	487.9	480.7	473.4	466.2	459.0	451.7	444.5	425.2
142.5°	452.0	445.6	439.2	432.8	426.4	419.9	413.5	407.1	400.7	394.3	376.6
145°	398.0	392.3	386.6	381.0	375.3	369.6	363.9	358.3	352.6	346.9	330.4
147.5°	345.0	339.8	334.7	329.5	324.3	319.2	314.0	308.8	303.7	298.5	283.6
150°	293.9	289.4	284.8	280.3	275.7	271.2	266.6	262.1	257.5	253.0	239.6
152.5°	243.7	239.3	234.8	230.4	225.9	221.5	217.0	212.6	208.1	203.7	192.2
155°	192.5	188.9	185.3	181.7	178.1	174.4	170.8	167.2	163.6	160.0	150.1
157.5°	146.0	143.0	140.0	137.0	134.0	131.0	128.0	125.0	122.0	119.0	110.6
160°	102.3	99.8	97.3	94.9	92.4	89.9	87.4	85.0	82.5	80.0	73.8
162.5°	60.4	58.8	57.1	55.5	53.8	52.2	50.5	48.9	47.2	45.6	41.8
165°	30.7	29.7	28.6	27.6	26.6	25.5	24.5	23.5	22.4	21.4	19.4
167.5°	10.2	9.8	9.4	9.0	8.6	8.1	7.7	7.3	6.9	6.5	5.8
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1
2.5°	850.4	850.6	850.8	851.1	851.3	851.5	851.7	851.9	850.3	848.8	847.2
5°	872.3	871.7	871.2	870.7	870.2	869.6	869.1	868.6	866.0	863.4	860.9
7.5°	893.8	892.5	891.1	889.8	888.4	887.1	885.7	884.4	880.5	876.6	872.6
10°	915.9	913.9	911.9	910.0	908.0	906.0	904.1	902.1	896.4	890.7	885.0
12.5°	939.7	936.2	932.7	929.1	925.6	922.1	918.6	915.1	908.0	900.8	893.7
15°	968.3	962.9	957.4	951.9	946.4	941.0	935.5	930.0	921.1	912.2	903.3
17.5°	998.4	990.8	983.1	975.5	967.8	960.2	952.5	944.9	933.9	923.0	912.0
20°	1027.0	1017.4	1007.8	998.1	988.5	978.9	969.3	959.7	946.5	933.3	920.0
22.5°	1056.5	1045.3	1034.1	1023.0	1011.8	1000.6	989.5	978.3	962.3	946.3	930.3
25°	1086.7	1073.8	1061.0	1048.2	1035.4	1022.5	1009.7	996.9	977.9	958.9	939.9
27.5°	1115.7	1101.1	1086.5	1072.0	1057.4	1042.8	1028.3	1013.7	991.9	970.1	948.3
30°	1143.1	1126.8	1110.6	1094.4	1078.2	1061.9	1045.7	1029.5	1005.0	980.5	956.0
32.5°	1170.2	1152.3	1134.3	1116.3	1098.3	1080.4	1062.4	1044.4	1017.1	989.8	962.6
35°	1196.5	1176.8	1157.0	1137.3	1117.5	1097.8	1078.0	1058.3	1028.6	999.0	969.3
37.5°	1222.9	1201.5	1180.1	1158.8	1137.4	1116.0	1094.6	1073.2	1041.1	1008.9	976.8
40°	1249.2	1226.1	1202.9	1179.8	1156.6	1133.5	1110.3	1087.2	1052.7	1018.2	983.6
42.5°	1274.1	1249.0	1223.9	1198.7	1173.6	1148.5	1123.4	1098.3	1061.5	1024.7	987.9
45°	1298.0	1271.0	1243.9	1216.8	1189.7	1162.7	1135.6	1108.5	1069.4	1030.4	991.3
47.5°	1321.8	1292.7	1263.5	1234.4	1205.2	1176.1	1146.9	1117.8	1076.6	1035.4	994.1
50°	1344.3	1312.9	1281.5	1250.0	1218.6	1187.2	1155.8	1124.4	1081.1	1037.8	994.5
52.5°	1364.6	1330.8	1297.0	1263.3	1229.5	1195.7	1161.9	1128.1	1082.9	1037.8	992.6
55°	1383.7	1347.8	1312.0	1276.1	1240.3	1204.4	1168.6	1132.7	1085.5	1038.3	991.0
57.5°	1401.0	1363.0	1325.1	1287.2	1249.3	1211.3	1173.4	1135.5	1086.2	1036.9	987.6
60°	1415.6	1375.7	1335.8	1296.0	1256.1	1216.2	1176.3	1136.4	1085.4	1034.3	983.3
62.5°	1425.3	1383.8	1342.3	1300.7	1259.2	1217.7	1176.1	1134.6	1081.9	1029.2	976.5
65°	1431.9	1389.1	1346.2	1303.3	1260.4	1217.6	1174.7	1131.8	1077.3	1022.9	968.4
67.5°	1433.5	1389.4	1345.4	1301.4	1257.4	1213.3	1169.3	1125.3	1069.4	1013.5	957.6
70°	1429.9	1385.1	1340.2	1295.4	1250.5	1205.7	1160.8	1116.0	1058.9	1001.7	944.6
72.5°	1419.1	1373.9	1328.8	1283.6	1238.5	1193.3	1148.2	1103.0	1044.9	986.8	928.8
75°	1402.9	1357.5	1312.1	1266.8	1221.4	1176.0	1130.7	1085.3	1026.6	967.9	909.2
77.5°	1378.9	1333.6	1288.3	1243.1	1197.8	1152.5	1107.3	1062.0	1003.1	944.2	885.3
80°	1349.0	1304.2	1259.3	1214.5	1169.6	1124.8	1079.9	1035.1	976.6	918.1	859.6
82.5°	1314.0	1269.7	1225.5	1181.3	1137.1	1092.8	1048.6	1004.4	946.5	888.7	830.8
85°	1276.4	1232.9	1189.4	1145.8	1102.3	1058.8	1015.3	971.8	914.8	857.7	800.7
87.5°	1236.6	1194.1	1151.6	1109.2	1066.7	1024.2	981.8	939.3	883.4	827.5	771.6
90°	1197.0	1155.7	1114.4	1073.0	1031.7	990.4	949.0	907.7	852.9	798.2	743.4
92.5°	1165.8	1125.6	1085.4	1045.2	1005.0	964.8	924.6	884.4	830.7	776.9	723.2
95°	1134.6	1095.5	1056.5	1017.4	978.4	939.3	900.3	861.2	808.3	755.4	702.5
97.5°	1103.0	1064.8	1026.7	988.6	950.5	912.3	874.2	836.1	784.2	732.3	680.5
100°	1071.1	1033.8	996.5	959.2	921.9	884.6	847.3	810.0	759.2	708.3	657.5
102.5°	1040.9	1004.4	967.8	931.2	894.6	858.1	821.5	784.9	735.0	685.1	635.2
105°	1008.9	973.0	937.2	901.3	865.5	829.6	793.8	757.9	708.9	659.9	611.0
107.5°	976.1	941.5	906.9	872.2	837.6	803.0	768.4	733.8	685.4	637.1	588.7
110°	939.6	905.8	872.0	838.3	804.5	770.7	736.9	703.1	656.1	609.1	562.0





TEST NUMBER: P201359

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	906.2	873.0	839.7	806.4	773.1	739.9	706.6	673.3	627.4	581.5	535.7
115°	868.0	836.0	804.1	772.2	740.3	708.3	676.4	644.5	599.7	554.8	510.0
117.5°	827.5	796.7	765.9	735.1	704.3	673.5	642.7	611.9	568.1	524.3	480.5
120°	785.5	755.5	725.5	695.6	665.6	635.6	605.7	575.7	533.7	491.8	449.8
122.5°	743.7	715.1	686.6	658.1	629.6	601.0	572.5	544.0	503.4	462.8	422.2
125°	699.2	671.7	644.2	616.8	589.3	561.8	534.3	506.8	468.2	429.5	390.9
127.5°	653.0	626.5	600.1	573.6	547.2	520.7	494.3	467.8	431.4	395.0	358.7
130°	604.5	578.5	552.4	526.4	500.3	474.3	448.2	422.2	388.8	355.4	322.1
132.5°	556.8	532.6	508.3	484.0	459.7	435.5	411.2	386.9	355.5	324.1	292.7
135°	506.5	483.6	460.7	437.7	414.8	391.9	368.9	346.0	317.2	288.3	259.5
137.5°	454.6	433.7	412.7	391.7	370.7	349.8	328.8	307.8	281.3	254.9	228.4
140°	405.9	386.5	367.2	347.9	328.6	309.2	289.9	270.6	246.4	222.2	198.1
142.5°	359.0	341.3	323.6	306.0	288.3	270.6	253.0	235.3	213.1	190.9	168.6
145°	313.8	297.3	280.8	264.2	247.7	231.2	214.6	198.1	178.8	159.5	140.1
147.5°	268.7	253.9	239.0	224.1	209.2	194.4	179.5	164.6	148.1	131.5	115.0
150°	226.1	212.7	199.3	185.8	172.4	159.0	145.5	132.1	118.7	105.2	91.8
152.5°	180.7	169.3	157.8	146.3	134.8	123.4	111.9	100.4	90.0	79.5	69.1
155°	140.2	130.2	120.3	110.4	100.5	90.5	80.6	70.7	63.2	55.6	48.1
157.5°	102.3	93.9	85.5	77.2	68.8	60.4	52.1	43.7	38.8	34.0	29.1
160°	67.6	61.4	55.2	49.0	42.8	36.6	30.4	24.2	21.5	18.8	16.1
162.5°	38.0	34.1	30.3	26.5	22.7	18.8	15.0	11.2	10.0	8.7	7.5
165°	17.5	15.5	13.5	11.6	9.6	7.6	5.7	3.7	3.3	2.9	2.5
167.5°	5.1	4.3	3.6	2.9	2.2	1.4	0.7	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201359

CATALOG NUMBER: 4LBLELD4-7-ASYMW-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1
2.5°	845.7	844.1	842.6	841.0	839.5	837.9	838.3	838.7	839.1	839.5	840.0
5°	858.3	855.7	853.1	850.6	848.0	845.4	844.6	843.7	842.9	842.1	841.2
7.5°	868.7	864.8	860.9	856.9	853.0	849.1	847.2	845.4	843.5	841.6	839.8
10°	879.3	873.7	868.0	862.3	856.6	850.9	847.9	844.9	841.9	838.9	836.0
12.5°	886.6	879.4	872.3	865.2	858.0	850.9	846.5	842.0	837.6	833.2	828.7
15°	894.4	885.6	876.7	867.8	858.9	850.0	844.2	838.4	832.6	826.8	821.1
17.5°	901.1	890.1	879.2	868.2	857.3	846.3	839.3	832.3	825.2	818.2	811.2
20°	906.8	893.6	880.4	867.1	853.9	840.7	832.2	823.8	815.3	806.8	798.4
22.5°	914.3	898.2	882.2	866.2	850.2	834.2	824.2	814.2	804.1	794.1	784.1
25°	920.9	901.8	882.8	863.8	844.8	825.8	814.2	802.7	791.1	779.5	768.0
27.5°	926.5	904.7	882.9	861.1	839.3	817.5	804.1	790.6	777.2	763.8	750.3
30°	931.5	907.1	882.6	858.1	833.6	809.1	793.8	778.5	763.2	747.9	732.7
32.5°	935.3	908.0	880.7	853.5	826.2	798.9	781.6	764.4	747.1	729.9	712.6
35°	939.7	910.0	880.4	850.7	821.1	791.4	771.7	751.9	732.2	712.5	692.7
37.5°	944.7	912.5	880.4	848.3	816.1	784.0	762.1	740.2	718.3	696.4	674.4
40°	949.1	914.6	880.1	845.5	811.0	776.5	752.0	727.5	703.0	678.5	654.1
42.5°	951.1	914.4	877.6	840.8	804.0	767.2	740.2	713.3	686.3	659.3	632.4
45°	952.3	913.2	874.2	835.1	796.1	757.0	727.6	698.1	668.7	639.2	609.8
47.5°	952.9	911.7	870.5	829.2	788.0	746.8	714.9	682.9	651.0	619.1	587.1
50°	951.2	907.9	864.6	821.3	778.0	734.7	700.5	666.3	632.1	597.9	563.7
52.5°	947.5	902.3	857.2	812.0	766.9	721.7	685.1	648.5	612.0	575.4	538.8
55°	943.8	896.6	849.4	802.1	754.9	707.7	669.1	630.4	591.8	553.1	514.5
57.5°	938.3	889.1	839.8	790.5	741.2	691.9	651.3	610.7	570.1	529.5	488.8
60°	932.2	881.2	830.1	779.1	728.0	677.0	634.3	591.6	549.0	506.3	463.6
62.5°	923.8	871.1	818.4	765.7	713.0	660.3	615.9	571.4	527.0	482.6	438.1
65°	914.0	859.5	805.1	750.6	696.2	641.7	595.6	549.5	503.4	457.3	411.3
67.5°	901.7	845.8	789.9	734.0	678.1	622.2	574.6	526.9	479.3	431.6	384.0
70°	887.4	830.3	773.1	716.0	658.8	601.7	552.9	504.1	455.4	406.6	357.8
72.5°	870.7	812.6	754.5	696.5	638.4	580.3	530.6	480.9	431.2	381.5	331.8
75°	850.5	791.9	733.2	674.5	615.8	557.1	506.8	456.5	406.1	355.8	305.5
77.5°	826.4	767.6	708.7	649.8	590.9	532.0	481.5	430.9	380.4	329.9	279.3
80°	801.1	742.7	684.2	625.7	567.2	508.7	458.1	407.4	356.8	306.2	255.5
82.5°	772.9	715.1	657.2	599.3	541.5	483.6	433.4	383.2	332.9	282.7	232.5
85°	743.7	686.6	629.6	572.6	515.5	458.5	409.2	359.9	310.6	261.3	212.1
87.5°	715.7	659.8	603.9	548.0	492.1	436.2	387.9	339.7	291.4	243.2	194.9
90°	688.6	633.9	579.1	524.3	469.6	414.8	368.7	322.6	276.5	230.4	184.4
92.5°	669.5	615.7	562.0	508.3	454.5	400.8	356.3	311.7	267.2	222.7	178.1
95°	649.6	596.6	543.7	490.8	437.9	385.0	342.2	299.4	256.7	213.9	171.1
97.5°	628.6	576.7	524.8	473.0	421.1	369.2	328.2	287.2	246.1	205.1	164.1
100°	606.7	555.8	505.0	454.2	403.3	352.5	313.3	274.2	235.0	195.8	156.7
102.5°	585.3	535.3	485.4	435.5	385.6	335.7	298.4	261.1	223.8	186.5	149.2
105°	562.0	513.0	464.0	415.1	366.1	317.1	281.9	246.6	211.4	176.2	140.9
107.5°	540.3	492.0	443.6	395.2	346.9	298.5	265.3	232.2	199.0	165.8	132.7
110°	515.0	468.0	421.0	373.9	326.9	279.9	248.8	217.7	186.6	155.5	124.4



TEST NUMBER: P201359

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	489.8	443.9	398.0	352.2	306.3	260.4	231.5	202.5	173.6	144.7	115.7
115°	465.1	420.3	375.4	330.6	285.7	240.9	214.1	187.4	160.6	133.8	107.1
117.5°	436.7	392.8	349.0	305.2	261.4	217.6	193.4	169.2	145.1	120.9	96.7
120°	407.9	365.9	324.0	282.0	240.1	198.1	176.1	154.1	132.1	110.1	88.0
122.5°	381.6	341.0	300.4	259.8	219.2	178.6	158.8	138.9	119.1	99.2	79.4
125°	352.2	313.6	274.9	236.3	197.6	159.0	141.3	123.7	106.0	88.3	70.7
127.5°	322.3	285.9	249.5	213.2	176.8	140.4	124.8	109.2	93.6	78.0	62.4
130°	288.7	255.3	221.9	188.6	155.2	121.8	108.3	94.7	81.2	67.7	54.1
132.5°	261.3	229.8	198.4	167.0	135.6	104.2	92.6	81.0	69.5	57.9	46.3
135°	230.7	201.8	173.0	144.2	115.3	86.5	76.9	67.3	57.7	48.1	38.4
137.5°	202.0	175.5	149.1	122.6	96.2	69.7	62.0	54.2	46.5	38.7	31.0
140°	173.9	149.7	125.5	101.4	77.2	53.0	47.1	41.2	35.3	29.4	23.6
142.5°	146.4	124.2	102.0	79.7	57.5	35.3	31.4	27.5	23.5	19.6	15.7
145°	120.8	101.5	82.2	62.8	43.5	24.2	21.5	18.8	16.1	13.4	10.8
147.5°	98.5	81.9	65.4	48.9	32.3	15.8	14.0	12.3	10.5	8.8	7.0
150°	78.4	64.9	51.5	38.1	24.6	11.2	10.0	8.7	7.5	6.2	5.0
152.5°	58.7	48.2	37.8	27.4	16.9	6.5	5.8	5.1	4.3	3.6	2.9
155°	40.5	33.0	25.4	17.9	10.3	2.8	2.5	2.2	1.9	1.6	1.2
157.5°	24.3	19.4	14.6	9.7	4.9	0.0	0.0	0.0	0.0	0.0	0.0
160°	13.4	10.8	8.1	5.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	6.2	5.0	3.7	2.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
165°	2.1	1.6	1.2	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201359

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1
2.5°	840.4	840.8	841.2	841.6	839.5	837.5	835.4	833.3	831.3	829.2	827.1
5°	840.4	839.6	838.7	837.9	834.9	831.9	828.9	825.9	823.0	820.0	817.0
7.5°	837.9	836.0	834.2	832.3	828.5	824.7	820.8	817.0	813.2	809.4	805.5
10°	833.0	830.0	827.0	824.0	819.6	815.1	810.7	806.2	801.8	797.3	792.9
12.5°	824.3	819.9	815.4	811.0	806.3	801.7	797.0	792.4	787.7	783.1	778.4
15°	815.3	809.5	803.7	797.9	792.8	787.8	782.7	777.7	772.6	767.6	762.5
17.5°	804.2	797.1	790.1	783.1	777.8	772.5	767.3	762.0	756.7	751.4	746.2
20°	789.9	781.4	773.0	764.5	759.5	754.6	749.6	744.6	739.7	734.7	729.7
22.5°	774.1	764.0	754.0	744.0	739.3	734.7	730.0	725.4	720.7	716.1	711.4
25°	756.4	744.8	733.3	721.7	717.7	713.6	709.6	705.6	701.5	697.5	693.5
27.5°	736.9	723.5	710.0	696.6	693.6	690.6	687.6	684.6	681.6	678.6	675.6
30°	717.4	702.1	686.8	671.5	669.7	668.0	666.2	664.4	662.7	660.9	659.1
32.5°	695.4	678.1	660.9	643.6	643.6	643.6	643.6	643.6	643.6	643.6	643.6
35°	673.0	653.3	633.5	613.8	615.8	617.7	619.7	621.7	623.6	625.6	627.6
37.5°	652.5	630.6	608.7	586.8	590.5	594.2	598.0	601.7	605.4	609.1	612.9
40°	629.6	605.1	580.6	556.1	561.7	567.3	572.9	578.5	584.0	589.6	595.2
42.5°	605.4	578.4	551.5	524.5	532.0	539.6	547.1	554.7	562.2	569.8	577.3
45°	580.3	550.9	521.4	492.0	501.5	511.0	520.5	530.0	539.5	549.0	558.5
47.5°	555.2	523.3	491.3	459.4	470.9	482.3	493.8	505.3	516.7	528.2	539.7
50°	529.5	495.3	461.1	426.9	440.2	453.5	466.9	480.2	493.5	506.8	520.2
52.5°	502.2	465.7	429.1	392.5	407.8	423.1	438.4	453.7	468.9	484.2	499.5
55°	475.8	437.2	398.5	359.9	377.0	394.0	411.1	428.1	445.2	462.2	479.3
57.5°	448.2	407.6	367.0	326.4	345.3	364.2	383.1	402.0	421.0	439.9	458.8
60°	420.9	378.3	335.6	292.9	313.4	333.8	354.3	374.8	395.2	415.7	436.2
62.5°	393.7	349.3	304.8	260.4	282.4	304.4	326.4	348.4	370.5	392.5	414.5
65°	365.2	319.1	273.0	226.9	250.5	274.0	297.6	321.2	344.7	368.3	391.9
67.5°	336.3	288.7	241.0	193.4	218.4	243.4	268.4	293.4	318.5	343.5	368.5
70°	309.0	260.3	211.5	162.7	188.7	214.8	240.8	266.9	292.9	319.0	345.0
72.5°	282.1	232.4	182.7	133.0	159.9	186.7	213.6	240.5	267.3	294.2	321.1
75°	255.2	204.8	154.5	104.2	131.8	159.4	187.0	214.6	242.1	269.7	297.3
77.5°	228.8	178.3	127.7	77.2	105.0	132.8	160.6	188.4	216.2	244.0	271.8
80°	204.9	154.3	103.6	53.0	81.0	109.0	137.0	165.0	193.0	221.0	249.0
82.5°	182.3	132.0	81.8	31.6	59.4	87.2	115.0	142.8	170.6	198.4	226.2
85°	162.8	113.5	64.2	14.9	42.3	69.7	97.0	124.4	151.8	179.2	206.5
87.5°	146.7	98.4	50.2	1.9	28.7	55.4	82.2	108.9	135.7	162.4	189.2
90°	138.3	92.2	46.1	0.0	25.4	50.8	76.3	101.7	127.1	152.5	178.0
92.5°	133.6	89.1	44.5	0.0	24.0	48.0	71.9	95.9	119.9	143.9	167.8
95°	128.3	85.6	42.8	0.0	22.7	45.5	68.2	90.9	113.7	136.4	159.1
97.5°	123.1	82.0	41.0	0.0	21.4	42.8	64.2	85.6	106.9	128.3	149.7
100°	117.5	78.3	39.2	0.0	20.1	40.3	60.4	80.6	100.7	120.9	141.0
102.5°	111.9	74.6	37.3	0.0	18.9	37.8	56.7	75.6	94.6	113.5	132.4
105°	105.7	70.5	35.2	0.0	17.6	35.1	52.7	70.3	87.8	105.4	123.0
107.5°	99.5	66.3	33.2	0.0	16.2	32.4	48.7	64.9	81.1	97.3	113.6
110°	93.3	62.2	31.1	0.0	15.0	30.0	44.9	59.9	74.9	89.9	104.8



TEST NUMBER: P201359

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	86.8	57.9	28.9	0.0	13.6	27.3	40.9	54.6	68.2	81.9	95.5
115°	80.3	53.5	26.8	0.0	12.3	24.6	36.9	49.2	61.5	73.8	86.1
117.5°	72.5	48.4	24.2	0.0	11.0	21.9	32.9	43.8	54.8	65.7	76.7
120°	66.0	44.0	22.0	0.0	9.6	19.2	28.8	38.4	48.1	57.7	67.3
122.5°	59.5	39.7	19.8	0.0	8.5	17.0	25.4	33.9	42.4	50.9	59.3
125°	53.0	35.3	17.7	0.0	7.1	14.3	21.4	28.5	35.7	42.8	49.9
127.5°	46.8	31.2	15.6	0.0	5.8	11.6	17.4	23.2	28.9	34.7	40.5
130°	40.6	27.1	13.5	0.0	4.5	9.1	13.6	18.2	22.7	27.3	31.8
132.5°	34.7	23.2	11.6	0.0	3.4	6.8	10.2	13.6	17.1	20.5	23.9
135°	28.8	19.2	9.6	0.0	2.4	4.8	7.1	9.5	11.9	14.3	16.6
137.5°	23.2	15.5	7.7	0.0	1.5	3.1	4.6	6.2	7.7	9.3	10.8
140°	17.7	11.8	5.9	0.0	0.8	1.6	2.5	3.3	4.1	4.9	5.8
142.5°	11.8	7.8	3.9	0.0	0.4	0.8	1.2	1.6	2.1	2.5	2.9
145°	8.1	5.4	2.7	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7
147.5°	5.3	3.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	3.7	2.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	2.2	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.9	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201359

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1
2.5°	825.1	823.0	822.4	821.8	821.2	820.6	819.9	819.3	818.7	818.1	817.5
5°	814.0	811.0	809.9	808.7	807.6	806.4	805.3	804.1	803.0	801.8	800.7
7.5°	801.7	797.9	796.6	795.2	793.9	792.5	791.2	789.8	788.5	787.1	785.8
10°	788.4	784.0	782.8	781.5	780.3	779.0	777.8	776.5	775.3	774.0	772.8
12.5°	773.8	769.1	768.4	767.7	766.9	766.2	765.5	764.8	764.0	763.3	762.6
15°	757.5	752.4	752.7	753.0	753.3	753.6	754.0	754.3	754.6	754.9	755.2
17.5°	740.9	735.6	737.8	740.0	742.1	744.3	746.5	748.7	750.8	753.0	755.2
20°	724.8	719.8	724.5	729.1	733.8	738.4	743.1	747.7	752.4	757.0	761.7
22.5°	706.8	702.1	709.4	716.8	724.1	731.5	738.8	746.2	753.5	760.9	768.2
25°	689.4	685.4	695.3	705.2	715.2	725.1	735.0	744.9	754.9	764.8	774.7
27.5°	672.6	669.6	681.7	693.8	705.9	718.0	730.0	742.1	754.2	766.3	778.4
30°	657.4	655.6	669.7	683.7	697.8	711.8	725.9	739.9	754.0	768.0	782.1
32.5°	643.6	643.6	659.3	675.0	690.7	706.4	722.1	737.8	753.5	769.2	784.9
35°	629.5	631.5	648.6	665.8	682.9	700.1	717.2	734.4	751.5	768.7	785.8
37.5°	616.6	620.3	638.8	657.3	675.8	694.3	712.8	731.3	749.8	768.3	786.8
40°	600.8	606.4	626.5	646.7	666.8	687.0	707.1	727.3	747.4	767.6	787.7
42.5°	584.9	592.4	614.0	635.6	657.2	678.8	700.4	722.0	743.6	765.2	786.8
45°	568.0	577.5	600.6	623.8	646.9	670.1	693.2	716.4	739.5	762.7	785.8
47.5°	551.1	562.6	587.2	611.8	636.4	661.0	685.6	710.2	734.8	759.4	784.0
50°	533.5	546.8	572.9	599.1	625.2	651.4	677.5	703.7	729.8	756.0	782.1
52.5°	514.8	530.1	557.6	585.1	612.6	640.1	667.5	695.0	722.5	750.0	777.5
55°	496.3	513.4	542.3	571.3	600.2	629.1	658.1	687.0	715.9	744.9	773.8
57.5°	477.7	496.6	527.1	557.6	588.1	618.6	649.0	679.5	710.0	740.5	771.0
60°	456.6	477.1	509.2	541.4	573.5	605.6	637.8	669.9	702.0	734.2	766.3
62.5°	436.5	458.5	492.2	525.9	559.6	593.3	626.9	660.6	694.3	728.0	761.7
65°	415.4	439.0	474.1	509.3	544.4	579.5	614.7	649.8	684.9	720.1	755.2
67.5°	393.5	418.5	455.0	491.5	527.9	564.4	600.9	637.4	673.8	710.3	746.8
70°	371.1	397.1	434.6	472.1	509.6	547.1	584.7	622.2	659.7	697.2	734.7
72.5°	347.9	374.8	412.7	450.6	488.6	526.5	564.4	602.3	640.3	678.2	716.1
75°	324.9	352.5	390.3	428.1	465.9	503.7	541.6	579.4	617.2	655.0	692.8
77.5°	299.6	327.4	364.9	402.4	439.9	477.4	514.9	552.4	589.9	627.4	664.9
80°	277.0	305.0	341.6	378.2	414.8	451.4	487.9	524.5	561.1	597.7	634.3
82.5°	254.0	281.8	317.3	352.9	388.4	424.0	459.5	495.1	530.6	566.2	601.7
85°	233.9	261.3	295.7	330.1	364.5	398.9	433.4	467.8	502.2	536.6	571.0
87.5°	215.9	242.7	276.2	309.7	343.1	376.6	410.1	443.6	477.0	510.5	544.0
90°	203.4	228.8	261.1	293.5	325.8	358.2	390.5	422.9	455.2	487.6	519.9
92.5°	191.8	215.8	247.5	279.2	311.0	342.7	374.4	406.1	437.9	469.6	501.3
95°	181.9	204.6	235.5	266.4	297.3	328.2	359.1	390.0	420.9	451.8	482.7
97.5°	171.1	192.5	222.8	253.1	283.3	313.6	343.9	374.2	404.4	434.7	465.0
100°	161.2	181.3	210.9	240.4	270.0	299.5	329.1	358.6	388.2	417.7	447.3
102.5°	151.3	170.2	199.0	227.9	256.7	285.5	314.4	343.2	372.0	400.9	429.7
105°	140.5	158.1	186.4	214.7	243.0	271.3	299.7	328.0	356.3	384.6	412.9
107.5°	129.8	146.0	173.5	201.0	228.5	256.0	283.4	310.9	338.4	365.9	393.4
110°	119.8	134.8	161.3	187.7	214.2	240.6	267.1	293.5	320.0	346.4	372.9



TEST NUMBER: P201359

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	109.2	122.8	148.4	174.0	199.7	225.3	250.9	276.5	302.2	327.8	353.4
115°	98.4	110.7	135.4	160.1	184.8	209.5	234.1	258.8	283.5	308.2	332.9
117.5°	87.6	98.6	122.4	146.1	169.9	193.7	217.4	241.2	265.0	288.7	312.5
120°	76.9	86.5	109.2	132.0	154.7	177.4	200.2	222.9	245.6	268.4	291.1
122.5°	67.8	76.3	97.8	119.3	140.8	162.3	183.7	205.2	226.7	248.2	269.7
125°	57.1	64.2	84.6	104.9	125.3	145.6	166.0	186.3	206.7	227.0	247.4
127.5°	46.3	52.1	70.8	89.5	108.2	126.9	145.6	164.3	183.0	201.7	220.4
130°	36.4	40.9	58.0	75.0	92.1	109.1	126.2	143.2	160.3	177.3	194.4
132.5°	27.3	30.7	45.9	61.1	76.3	91.5	106.6	121.8	137.0	152.2	167.4
135°	19.0	21.4	34.9	48.5	62.0	75.5	89.1	102.6	116.1	129.7	143.2
137.5°	12.4	13.9	25.7	37.5	49.3	61.1	72.8	84.6	96.4	108.2	120.0
140°	6.6	7.4	17.6	27.9	38.1	48.3	58.6	68.8	79.0	89.3	99.5
142.5°	3.3	3.7	12.2	20.7	29.1	37.6	46.1	54.6	63.0	71.5	80.0
145°	0.8	0.9	7.7	14.5	21.4	28.2	35.0	41.8	48.7	55.5	62.3
147.5°	0.0	0.0	5.2	10.3	15.5	20.7	25.8	31.0	36.2	41.3	46.5
150°	0.0	0.0	3.6	7.2	10.8	14.4	18.1	21.7	25.3	28.9	32.5
152.5°	0.0	0.0	2.2	4.3	6.5	8.7	10.8	13.0	15.2	17.3	19.5
155°	0.0	0.0	1.1	2.3	3.4	4.5	5.7	6.8	7.9	9.1	10.2
157.5°	0.0	0.0	0.3	0.6	0.9	1.2	1.6	1.9	2.2	2.5	2.8
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201359

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1
2.5°	816.6	815.6	814.7	813.8	812.8	811.9	811.0	810.0	809.1	808.2	807.2
5°	799.7	798.6	797.6	796.6	795.5	794.5	793.5	792.4	791.4	790.8	790.2
7.5°	784.9	784.0	783.0	782.1	781.2	780.3	779.3	778.4	777.5	777.2	776.9
10°	772.7	772.6	772.5	772.4	772.3	772.2	772.1	772.0	771.9	771.7	771.5
12.5°	763.5	764.5	765.4	766.3	767.3	768.2	769.1	770.1	771.0	771.6	772.2
15°	758.2	761.2	764.2	767.2	770.1	773.1	776.1	779.1	782.1	783.8	785.4
17.5°	760.2	765.1	770.1	775.0	780.0	784.9	789.9	794.8	799.8	801.8	803.7
20°	767.7	773.7	779.7	785.7	791.6	797.6	803.6	809.6	815.6	818.0	820.4
22.5°	775.2	782.2	789.3	796.3	803.3	810.3	817.4	824.4	831.4	834.0	836.6
25°	782.6	790.4	798.3	806.1	814.0	821.8	829.7	837.5	845.4	848.4	851.4
27.5°	787.4	796.4	805.4	814.4	823.3	832.3	841.3	850.3	859.3	862.5	865.7
30°	792.0	801.9	811.9	821.8	831.7	841.6	851.6	861.5	871.4	875.2	879.0
32.5°	795.9	806.8	817.8	828.7	839.7	850.6	861.6	872.5	883.5	887.8	892.2
35°	798.0	810.2	822.4	834.6	846.8	859.0	871.2	883.4	895.6	900.6	905.5
37.5°	800.2	813.7	827.1	840.5	854.0	867.4	880.8	894.3	907.7	913.4	919.1
40°	802.4	817.1	831.7	846.4	861.1	875.8	890.4	905.1	919.8	926.1	932.4
42.5°	802.8	818.8	834.8	850.8	866.9	882.9	898.9	914.9	930.9	937.9	945.0
45°	803.4	820.9	838.5	856.1	873.6	891.2	908.8	926.3	943.9	951.6	959.2
47.5°	803.3	822.6	842.0	861.3	880.6	899.9	919.3	938.6	957.9	966.3	974.6
50°	803.1	824.1	845.0	866.0	887.0	908.0	928.9	949.9	970.9	980.2	989.5
52.5°	800.3	823.2	846.0	868.8	891.7	914.5	937.3	960.2	983.0	993.1	1003.2
55°	798.6	823.4	848.2	873.0	897.7	922.5	947.3	972.1	996.9	1007.5	1018.2
57.5°	797.3	823.7	850.0	876.4	902.7	929.1	955.4	981.8	1008.1	1019.5	1030.8
60°	794.2	822.1	850.0	877.9	905.8	933.7	961.6	989.5	1017.4	1029.1	1040.8
62.5°	790.8	820.0	849.1	878.2	907.4	936.5	965.6	994.8	1023.9	1035.7	1047.5
65°	785.4	815.5	845.7	875.9	906.0	936.2	966.4	996.5	1026.7	1038.6	1050.5
67.5°	777.5	808.2	838.9	869.6	900.2	930.9	961.6	992.3	1023.0	1034.9	1046.8
70°	765.7	796.7	827.7	858.7	889.7	920.7	951.7	982.7	1013.7	1025.4	1037.1
72.5°	747.1	778.1	809.1	840.1	871.1	902.1	933.1	964.1	995.1	1006.4	1017.6
75°	723.3	753.8	784.3	814.8	845.2	875.7	906.2	936.7	967.2	978.0	988.9
77.5°	694.5	724.0	753.6	783.1	812.7	842.2	871.8	901.3	930.9	941.5	952.2
80°	662.9	691.5	720.2	748.8	777.4	806.0	834.7	863.3	891.9	902.2	912.6
82.5°	629.3	656.9	684.5	712.1	739.6	767.2	794.8	822.4	850.0	860.1	870.2
85°	598.1	625.2	652.2	679.3	706.4	733.5	760.5	787.6	814.7	824.5	834.3
87.5°	569.5	595.1	620.6	646.1	671.7	697.2	722.7	748.3	773.8	783.4	793.0
90°	544.9	569.9	594.9	619.9	644.9	669.9	694.9	719.9	744.9	754.0	763.1
92.5°	525.5	549.7	573.8	598.0	622.2	646.4	670.5	694.7	718.9	727.7	736.5
95°	505.9	529.2	552.4	575.7	598.9	622.2	645.4	668.7	691.9	700.3	708.6
97.5°	487.5	510.0	532.6	555.1	577.6	600.1	622.7	645.2	667.7	675.7	683.6
100°	469.3	491.3	513.3	535.3	557.4	579.4	601.4	623.4	645.4	653.2	660.9
102.5°	451.2	472.7	494.2	515.7	537.1	558.6	580.1	601.6	623.1	630.8	638.6
105°	433.7	454.4	475.2	496.0	516.7	537.5	558.3	579.0	599.8	607.1	614.5
107.5°	413.7	433.9	454.2	474.4	494.7	514.9	535.2	555.4	575.7	582.8	589.9
110°	392.6	412.4	432.1	451.9	471.6	491.4	511.1	530.9	550.6	557.8	565.1





TEST NUMBER: P201359

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	372.4	391.4	410.4	429.4	448.5	467.5	486.5	505.5	524.5	531.3	538.1
115°	351.3	369.7	388.1	406.5	424.9	443.3	461.7	480.1	498.5	505.0	511.5
117.5°	330.2	347.8	365.5	383.2	400.8	418.5	436.2	453.8	471.5	477.9	484.3
120°	308.1	325.2	342.2	359.3	376.3	393.4	410.4	427.5	444.5	450.6	456.7
122.5°	286.0	302.3	318.7	335.0	351.3	367.6	384.0	400.3	416.6	422.6	428.6
125°	263.1	278.8	294.5	310.2	325.9	341.6	357.3	373.0	388.7	394.5	400.3
127.5°	235.9	251.4	266.9	282.4	297.9	313.4	328.9	344.4	359.9	365.5	371.1
130°	209.5	224.6	239.6	254.7	269.8	284.9	299.9	315.0	330.1	335.5	340.9
132.5°	182.1	196.8	211.4	226.1	240.8	255.5	270.1	284.8	299.5	304.7	309.8
135°	157.4	171.5	185.7	199.8	214.0	228.1	242.3	256.4	270.6	275.4	280.1
137.5°	133.2	146.4	159.7	172.9	186.1	199.3	212.6	225.8	239.0	243.8	248.5
140°	111.2	122.9	134.5	146.2	157.9	169.6	181.2	192.9	204.6	210.0	215.4
142.5°	90.3	100.7	111.0	121.3	131.7	142.0	152.3	162.7	173.0	178.3	183.5
145°	71.2	80.1	89.0	97.9	106.7	115.6	124.5	133.4	142.3	147.7	153.0
147.5°	54.0	61.6	69.1	76.7	84.2	91.8	99.3	106.9	114.4	119.8	125.1
150°	38.8	45.1	51.4	57.7	64.1	70.4	76.7	83.0	89.3	94.3	99.2
152.5°	24.7	29.8	35.0	40.2	45.3	50.5	55.7	60.8	66.0	70.5	75.1
155°	14.0	17.8	21.7	25.5	29.3	33.1	37.0	40.8	44.6	48.6	52.7
157.5°	5.4	8.0	10.5	13.1	15.7	18.3	20.8	23.4	26.0	29.4	32.8
160°	1.3	2.7	4.0	5.4	6.7	8.1	9.4	10.8	12.1	14.6	17.1
162.5°	0.2	0.4	0.6	0.8	1.1	1.3	1.5	1.7	1.9	3.4	5.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201359

CATALOG NUMBER: 4LBLELD4-7-ASYMW-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1
2.5°	806.3	805.4	804.4	803.5	802.6	801.6	800.7	801.5	802.4	803.2	804.0
5°	789.5	788.9	788.3	787.7	787.0	786.4	785.8	786.3	786.8	787.4	787.9
7.5°	776.6	776.3	775.9	775.6	775.3	775.0	774.7	775.0	775.3	775.6	775.9
10°	771.3	771.1	770.8	770.6	770.4	770.2	770.0	769.9	769.8	769.7	769.6
12.5°	772.8	773.4	774.1	774.7	775.3	775.9	776.5	775.5	774.4	773.4	772.4
15°	787.1	788.7	790.4	792.0	793.7	795.3	797.0	795.2	793.5	791.7	790.0
17.5°	805.7	807.7	809.6	811.6	813.6	815.5	817.5	815.6	813.8	811.9	810.0
20°	822.7	825.1	827.5	829.9	832.2	834.6	837.0	834.4	831.8	829.2	826.6
22.5°	839.2	841.8	844.3	846.9	849.5	852.1	854.7	851.7	848.7	845.7	842.7
25°	854.4	857.4	860.3	863.3	866.3	869.3	872.3	869.0	865.7	862.4	859.1
27.5°	868.9	872.1	875.3	878.5	881.7	884.9	888.1	884.6	881.1	877.6	874.1
30°	882.9	886.7	890.5	894.3	898.2	902.0	905.8	901.8	897.7	893.7	889.7
32.5°	896.5	900.8	905.2	909.5	913.8	918.2	922.5	918.0	913.4	908.9	904.3
35°	910.5	915.4	920.4	925.3	930.3	935.2	940.2	935.1	930.1	925.0	919.9
37.5°	924.7	930.4	936.1	941.8	947.4	953.1	958.8	953.2	947.6	942.1	936.5
40°	938.7	945.0	951.3	957.6	963.9	970.2	976.5	970.4	964.3	958.2	952.1
42.5°	952.0	959.0	966.1	973.1	980.1	987.2	994.2	987.6	981.0	974.3	967.7
45°	966.9	974.5	982.2	989.8	997.5	1005.1	1012.8	1005.7	998.5	991.4	984.3
47.5°	983.0	991.4	999.7	1008.1	1016.5	1024.8	1033.2	1025.5	1017.7	1010.0	1002.2
50°	998.8	1008.1	1017.4	1026.7	1036.0	1045.3	1054.6	1046.1	1037.6	1029.2	1020.7
52.5°	1013.4	1023.5	1033.6	1043.7	1053.9	1064.0	1074.1	1065.0	1055.9	1046.8	1037.7
55°	1028.8	1039.5	1050.1	1060.8	1071.4	1082.1	1092.7	1083.1	1073.5	1063.9	1054.3
57.5°	1042.2	1053.6	1064.9	1076.3	1087.7	1099.0	1110.4	1100.3	1090.2	1080.0	1069.9
60°	1052.4	1064.1	1075.8	1087.5	1099.1	1110.8	1122.5	1112.3	1102.0	1091.8	1081.6
62.5°	1059.2	1071.0	1082.8	1094.6	1106.3	1118.1	1129.9	1119.6	1109.2	1098.9	1088.6
65°	1062.4	1074.3	1086.1	1098.0	1109.9	1121.8	1133.7	1123.2	1112.6	1102.1	1091.5
67.5°	1058.6	1070.5	1082.4	1094.3	1106.1	1118.0	1129.9	1119.6	1109.2	1098.9	1088.6
70°	1048.7	1060.4	1072.1	1083.8	1095.4	1107.1	1118.8	1108.4	1097.9	1087.5	1077.0
72.5°	1028.9	1040.2	1051.4	1062.7	1074.0	1085.2	1096.5	1086.4	1076.2	1066.1	1056.0
75°	999.7	1010.6	1021.4	1032.3	1043.1	1054.0	1064.8	1055.0	1045.2	1035.4	1025.6
77.5°	962.8	973.5	984.1	994.8	1005.4	1016.1	1026.7	1017.0	1007.3	997.6	987.9
80°	922.9	933.2	943.6	953.9	964.2	974.6	984.9	975.4	965.9	956.4	946.9
82.5°	880.4	890.5	900.6	910.7	920.9	931.0	941.1	932.3	923.5	914.8	906.0
85°	844.1	853.9	863.8	873.6	883.4	893.2	903.0	893.9	884.8	875.7	866.6
87.5°	802.6	812.2	821.8	831.4	841.0	850.6	860.2	851.5	842.8	834.2	825.5
90°	772.2	781.3	790.4	799.5	808.6	817.7	826.8	818.3	809.8	801.4	792.9
92.5°	745.2	754.0	762.8	771.6	780.3	789.1	797.9	789.6	781.4	773.1	764.8
95°	717.0	725.4	733.7	742.1	750.5	758.8	767.2	759.5	751.7	744.0	736.2
97.5°	691.6	699.5	707.5	715.4	723.4	731.3	739.3	732.0	724.6	717.3	710.0
100°	668.7	676.4	684.2	691.9	699.7	707.4	715.2	707.7	700.1	692.6	685.0
102.5°	646.3	654.1	661.8	669.6	677.3	685.1	692.8	685.2	677.5	669.9	662.2
105°	621.8	629.2	636.5	643.9	651.2	658.6	665.9	658.7	651.4	644.2	637.0
107.5°	597.1	604.2	611.3	618.4	625.6	632.7	639.8	632.8	625.8	618.7	611.7
110°	572.3	579.5	586.8	594.0	601.2	608.5	615.7	608.6	601.4	594.3	587.2



TEST NUMBER: P201359

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	545.0	551.8	558.6	565.4	572.3	579.1	585.9	579.2	572.5	565.7	559.0
115°	518.0	524.5	531.1	537.6	544.1	550.6	557.1	550.7	544.3	537.9	531.5
117.5°	490.7	497.1	503.6	510.0	516.4	522.8	529.2	523.0	516.8	510.6	504.4
120°	462.8	468.9	475.0	481.1	487.2	493.3	499.4	493.5	487.6	481.7	475.8
122.5°	434.6	440.6	446.6	452.6	458.6	464.6	470.6	465.0	459.4	453.9	448.3
125°	406.1	411.9	417.6	423.4	429.2	435.0	440.8	435.4	430.1	424.7	419.3
127.5°	376.6	382.2	387.8	393.4	398.9	404.5	410.1	405.0	400.0	394.9	389.9
130°	346.2	351.6	357.0	362.4	367.7	373.1	378.5	373.6	368.8	363.9	359.1
132.5°	315.0	320.2	325.3	330.5	335.7	340.8	346.0	341.4	336.9	332.3	327.8
135°	284.9	289.6	294.4	299.1	303.9	308.6	313.4	309.3	305.1	301.0	296.9
137.5°	253.3	258.0	262.8	267.5	272.3	277.0	281.8	278.0	274.2	270.3	266.5
140°	220.7	226.1	231.5	236.9	242.2	247.6	253.0	249.2	245.3	241.5	237.7
142.5°	188.8	194.1	199.3	204.6	209.9	215.1	220.4	217.2	214.0	210.8	207.6
145°	158.4	163.8	169.1	174.5	179.9	185.2	190.6	187.7	184.8	181.9	179.0
147.5°	130.5	135.9	141.2	146.6	152.0	157.3	162.7	160.0	157.3	154.7	152.0
150°	104.2	109.1	114.1	119.0	124.0	128.9	133.9	131.6	129.4	127.1	124.8
152.5°	79.6	84.2	88.7	93.3	97.8	102.4	106.9	104.9	103.0	101.0	99.1
155°	56.7	60.7	64.8	68.8	72.8	76.9	80.9	79.5	78.0	76.6	75.1
157.5°	36.2	39.6	43.1	46.5	49.9	53.3	56.7	55.6	54.4	53.3	52.2
160°	19.5	22.0	24.5	27.0	29.4	31.9	34.4	33.6	32.8	31.9	31.1
162.5°	6.5	8.1	9.6	11.2	12.7	14.3	15.8	15.4	15.0	14.6	14.2
165°	1.2	1.6	2.1	2.5	2.9	3.3	3.7	3.7	3.7	3.7	3.7
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201359

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1
2.5°	804.9	805.7	806.5	807.4	808.2	809.6	811.1	812.5	814.0	815.4	816.9
5°	788.4	788.9	789.5	790.0	790.5	792.2	793.8	795.5	797.1	798.8	800.4
7.5°	776.3	776.6	776.9	777.2	777.5	778.9	780.4	781.8	783.3	784.7	786.2
10°	769.5	769.4	769.3	769.2	769.1	770.1	771.2	772.2	773.2	774.3	775.3
12.5°	771.3	770.3	769.3	768.2	767.2	767.4	767.6	767.8	768.0	768.3	768.5
15°	788.2	786.5	784.7	783.0	781.2	779.1	777.1	775.0	772.9	770.9	768.8
17.5°	808.2	806.3	804.4	802.6	800.7	796.4	792.0	787.7	783.4	779.0	774.7
20°	824.1	821.5	818.9	816.3	813.7	808.6	803.6	798.5	793.5	788.4	783.4
22.5°	839.7	836.7	833.7	830.7	827.7	821.7	815.7	809.7	803.7	797.8	791.8
25°	855.8	852.5	849.2	845.9	842.6	835.6	828.5	821.5	814.5	807.4	800.4
27.5°	870.5	867.0	863.5	860.0	856.5	848.4	840.4	832.3	824.3	816.2	808.2
30°	885.6	881.6	877.6	873.5	869.5	860.4	851.3	842.2	833.1	824.1	815.0
32.5°	899.8	895.2	890.7	886.1	881.6	871.3	860.9	850.6	840.3	829.9	819.6
35°	914.9	909.8	904.7	899.7	894.6	883.0	871.5	859.9	848.3	836.8	825.2
37.5°	930.9	925.3	919.8	914.2	908.6	895.8	883.0	870.2	857.4	844.5	831.7
40°	946.0	939.9	933.8	927.7	921.6	907.5	893.5	879.4	865.4	851.3	837.3
42.5°	961.1	954.5	947.8	941.2	934.6	919.1	903.6	888.1	872.6	857.1	841.6
45°	977.1	970.0	962.9	955.7	948.6	931.5	914.5	897.4	880.4	863.3	846.3
47.5°	994.5	986.7	979.0	971.2	963.5	944.7	925.9	907.1	888.3	869.4	850.6
50°	1012.2	1003.7	995.3	986.8	978.3	957.6	937.0	916.3	895.7	875.0	854.4
52.5°	1028.7	1019.6	1010.5	1001.4	992.3	969.8	947.3	924.7	902.2	879.7	857.2
55°	1044.6	1035.0	1025.4	1015.8	1006.2	981.8	957.4	933.1	908.7	884.3	859.9
57.5°	1059.8	1049.7	1039.5	1029.4	1019.3	993.3	967.2	941.2	915.1	889.1	863.0
60°	1071.3	1061.1	1050.9	1040.6	1030.4	1002.7	975.0	947.3	919.6	892.0	864.3
62.5°	1078.2	1067.9	1057.6	1047.2	1036.9	1008.0	979.0	950.1	921.2	892.2	863.3
65°	1081.0	1070.4	1059.9	1049.3	1038.8	1008.9	979.1	949.2	919.3	889.5	859.6
67.5°	1078.2	1067.9	1057.6	1047.2	1036.9	1006.3	975.7	945.2	914.6	884.0	853.4
70°	1066.6	1056.1	1045.7	1035.2	1024.8	994.1	963.4	932.7	902.0	871.4	840.7
72.5°	1045.8	1035.7	1025.6	1015.4	1005.3	974.8	944.3	913.9	883.4	852.9	822.4
75°	1015.7	1005.9	996.1	986.3	976.5	946.5	916.6	886.6	856.6	826.7	796.7
77.5°	978.1	968.4	958.7	949.0	939.3	910.2	881.0	851.9	822.7	793.6	764.4
80°	937.3	927.8	918.3	908.8	899.3	871.1	842.9	814.7	786.5	758.2	730.0
82.5°	897.2	888.4	879.7	870.9	862.1	834.3	806.5	778.7	750.9	723.1	695.3
85°	857.6	848.5	839.4	830.3	821.2	794.4	767.7	740.9	714.1	687.4	660.6
87.5°	816.8	808.1	799.5	790.8	782.1	756.5	730.9	705.2	679.6	654.0	628.4
90°	784.4	775.9	767.5	759.0	750.5	726.0	701.5	677.0	652.5	628.1	603.6
92.5°	756.6	748.3	740.0	731.8	723.5	699.9	676.4	652.8	629.3	605.7	582.2
95°	728.5	720.7	713.0	705.2	697.5	674.8	652.0	629.3	606.6	583.8	561.1
97.5°	702.6	695.3	688.0	680.6	673.3	651.3	629.3	607.3	585.3	563.2	541.2
100°	677.5	669.9	662.4	654.8	647.3	626.1	604.9	583.7	562.5	541.4	520.2
102.5°	654.6	646.9	639.3	631.6	624.0	603.3	582.7	562.0	541.3	520.7	500.0
105°	629.7	622.5	615.3	608.0	600.8	580.5	560.3	540.0	519.8	499.5	479.3
107.5°	604.7	597.7	590.6	583.6	576.6	557.1	537.5	518.0	498.5	478.9	459.4
110°	580.0	572.9	565.8	558.6	551.5	532.7	513.9	495.1	476.3	457.4	438.6



TEST NUMBER: P201359

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	552.3	545.6	538.8	532.1	525.4	507.3	489.2	471.2	453.1	435.0	416.9
115°	525.0	518.6	512.2	505.8	499.4	482.0	464.7	447.3	430.0	412.6	395.3
117.5°	498.2	492.0	485.8	479.6	473.4	456.7	439.9	423.2	406.4	389.7	372.9
120°	470.0	464.1	458.2	452.3	446.4	430.3	414.2	398.0	381.9	365.8	349.7
122.5°	442.7	437.1	431.6	426.0	420.4	404.7	389.0	373.3	357.6	341.8	326.1
125°	414.0	408.6	403.2	397.9	392.5	377.3	362.1	346.9	331.7	316.5	301.3
127.5°	384.8	379.8	374.7	369.7	364.6	350.1	335.7	321.2	306.7	292.3	277.8
130°	354.2	349.4	344.5	339.7	334.8	321.1	307.3	293.6	279.8	266.1	252.3
132.5°	323.2	318.7	314.1	309.6	305.0	292.2	279.4	266.6	253.8	240.9	228.1
135°	292.7	288.6	284.5	280.3	276.2	264.3	252.4	240.6	228.7	216.8	204.9
137.5°	262.7	258.9	255.0	251.2	247.4	236.4	225.5	214.5	203.6	192.6	181.7
140°	233.8	230.0	226.2	222.3	218.5	208.7	198.9	189.1	179.3	169.4	159.6
142.5°	204.4	201.2	198.0	194.8	191.6	182.6	173.6	164.6	155.6	146.7	137.7
145°	176.2	173.3	170.4	167.5	164.6	156.5	148.5	140.4	132.4	124.3	116.3
147.5°	149.3	146.6	144.0	141.3	138.6	131.4	124.1	116.9	109.7	102.4	95.2
150°	122.6	120.3	118.0	115.8	113.5	107.2	100.9	94.6	88.3	81.9	75.6
152.5°	97.1	95.2	93.2	91.3	89.3	83.8	78.3	72.9	67.4	61.9	56.4
155°	73.7	72.2	70.8	69.3	67.9	63.2	58.6	53.9	49.3	44.6	40.0
157.5°	51.0	49.9	48.8	47.6	46.5	42.9	39.3	35.6	32.0	28.4	24.8
160°	30.3	29.5	28.6	27.8	27.0	24.8	22.6	20.5	18.3	16.1	13.9
162.5°	13.7	13.3	12.9	12.5	12.1	11.1	10.0	9.0	8.0	6.9	5.9
165°	3.7	3.7	3.7	3.7	3.7	3.4	3.1	2.8	2.5	2.1	1.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201359

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1
2.5°	818.3	819.8	821.2	821.6	822.0	822.4	822.8	823.3	823.7	824.1	824.5
5°	802.1	803.7	805.4	806.3	807.2	808.2	809.1	810.0	810.9	811.9	812.8
7.5°	787.6	789.1	790.5	791.5	792.6	793.6	794.6	795.7	796.7	797.7	798.8
10°	776.3	777.4	778.4	779.1	779.8	780.6	781.3	782.0	782.7	783.5	784.2
12.5°	768.7	768.9	769.1	769.2	769.3	769.4	769.5	769.6	769.7	769.8	769.9
15°	766.7	764.7	762.6	761.6	760.5	759.5	758.5	757.4	756.4	755.4	754.3
17.5°	770.4	766.0	761.7	759.0	756.3	753.6	750.9	748.3	745.6	742.9	740.2
20°	778.3	773.3	768.2	762.9	757.6	752.4	747.1	741.8	736.5	731.3	726.0
22.5°	785.8	779.8	773.8	766.0	758.3	750.5	742.8	735.0	727.3	719.5	711.8
25°	793.4	786.3	779.3	769.0	758.6	748.3	738.0	727.6	717.3	707.0	696.6
27.5°	800.1	792.1	784.0	771.3	758.6	745.9	733.2	720.4	707.7	695.0	682.3
30°	805.9	796.8	787.7	773.0	758.3	743.7	729.0	714.3	699.6	685.0	670.3
32.5°	809.3	798.9	788.6	772.6	756.6	740.6	724.6	708.5	692.5	676.5	660.5
35°	813.6	802.1	790.5	773.1	755.8	738.4	721.1	703.7	686.4	669.0	651.7
37.5°	818.9	806.1	793.3	774.3	755.3	736.3	717.3	698.2	679.2	660.2	641.2
40°	823.2	809.2	795.1	774.6	754.2	733.7	713.3	692.8	672.4	651.9	631.5
42.5°	826.1	810.6	795.1	773.2	751.3	729.4	707.5	685.6	663.7	641.8	619.9
45°	829.2	812.2	795.1	771.6	748.2	724.7	701.3	677.8	654.4	630.9	607.5
47.5°	831.8	813.0	794.2	769.3	744.4	719.5	694.6	669.7	644.8	619.9	595.0
50°	833.7	813.1	792.4	765.9	739.5	713.0	686.6	660.1	633.7	607.2	580.8
52.5°	834.6	812.1	789.6	761.7	733.8	705.9	678.0	650.1	622.2	594.3	566.4
55°	835.6	811.2	786.8	757.5	728.1	698.8	669.4	640.1	610.7	581.4	552.0
57.5°	837.0	810.9	784.9	753.9	722.9	691.9	660.9	629.9	598.9	567.9	536.9
60°	836.6	808.9	781.2	748.6	716.1	683.5	651.0	618.4	585.9	553.3	520.8
62.5°	834.4	805.4	776.5	742.5	708.5	674.5	640.5	606.6	572.6	538.6	504.6
65°	829.7	799.9	770.0	734.4	698.7	663.1	627.4	591.8	556.1	520.5	484.8
67.5°	822.9	792.3	761.7	724.8	687.9	651.0	614.1	577.3	540.4	503.5	466.6
70°	810.0	779.3	748.6	710.9	673.2	635.5	597.8	560.0	522.3	484.6	446.9
72.5°	792.0	761.5	731.0	692.8	654.5	616.3	578.1	539.8	501.6	463.4	425.1
75°	766.7	736.8	706.8	668.6	630.3	592.1	553.9	515.6	477.4	439.2	400.9
77.5°	735.3	706.1	677.0	639.5	602.0	564.5	527.0	489.4	451.9	414.4	376.9
80°	701.8	673.6	645.4	608.8	572.2	535.7	499.1	462.5	425.9	389.4	352.8
82.5°	667.5	639.7	611.9	576.5	541.0	505.6	470.1	434.7	399.2	363.8	328.3
85°	633.8	607.1	580.3	546.0	511.7	477.4	443.1	408.8	374.5	340.2	305.9
87.5°	602.7	577.1	551.5	518.3	485.2	452.0	418.8	385.7	352.5	319.3	286.2
90°	579.1	554.6	530.1	497.9	465.6	433.4	401.1	368.9	336.6	304.4	272.1
92.5°	558.6	535.1	511.5	480.2	448.9	417.6	386.3	354.9	323.6	292.3	261.0
95°	538.4	515.6	492.9	462.2	431.5	400.8	370.1	339.5	308.8	278.1	247.4
97.5°	519.2	497.2	475.2	445.2	415.3	385.3	355.3	325.4	295.4	265.4	235.5
100°	499.0	477.8	456.6	427.4	398.1	368.9	339.6	310.4	281.1	251.9	222.6
102.5°	479.3	458.7	438.0	409.5	381.0	352.4	323.9	295.4	266.9	238.3	209.8
105°	459.0	438.8	418.5	390.8	363.1	335.4	307.7	280.1	252.4	224.7	197.0
107.5°	439.9	420.3	400.8	373.7	346.7	319.6	292.5	265.5	238.4	211.3	184.3
110°	419.8	401.0	382.2	355.9	329.5	303.2	276.8	250.5	224.1	197.8	171.4



TEST NUMBER: P201359

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	398.9	380.8	362.7	337.2	311.7	286.1	260.6	235.1	209.6	184.0	158.5
115°	377.9	360.6	343.2	318.5	293.8	269.1	244.4	219.7	195.0	170.3	145.6
117.5°	356.2	339.4	322.7	298.9	275.2	251.4	227.6	203.9	180.1	156.3	132.6
120°	333.5	317.4	301.3	278.7	256.0	233.4	210.8	188.1	165.5	142.9	120.2
122.5°	310.4	294.7	279.0	257.6	236.2	214.8	193.4	172.1	150.7	129.3	107.9
125°	286.1	270.9	255.7	235.7	215.6	195.6	175.5	155.5	135.4	115.4	95.3
127.5°	263.3	248.9	234.4	215.5	196.6	177.7	158.8	139.8	120.9	102.0	83.1
130°	238.6	224.8	211.1	193.6	176.2	158.7	141.2	123.8	106.3	88.8	71.4
132.5°	215.3	202.5	189.7	173.6	157.5	141.3	125.2	109.1	93.0	76.8	60.7
135°	193.1	181.2	169.3	154.4	139.5	124.6	109.7	94.9	80.0	65.1	50.2
137.5°	170.7	159.8	148.8	135.4	121.9	108.5	95.1	81.6	68.2	54.8	41.3
140°	149.8	140.0	130.2	117.9	105.6	93.3	81.0	68.7	56.4	44.1	31.8
142.5°	128.7	119.7	110.7	99.8	89.0	78.1	67.3	56.4	45.6	34.7	23.9
145°	108.2	100.2	92.1	82.8	73.5	64.2	54.9	45.6	36.3	27.0	17.7
147.5°	88.0	80.7	73.5	66.1	58.6	51.2	43.7	36.3	28.8	21.4	13.9
150°	69.3	63.0	56.7	50.9	45.1	39.3	33.5	27.8	22.0	16.2	10.4
152.5°	51.0	45.5	40.0	35.9	31.7	27.6	23.5	19.3	15.2	11.1	6.9
155°	35.3	30.7	26.0	23.3	20.6	18.0	15.3	12.6	9.9	7.3	4.6
157.5°	21.1	17.5	13.9	12.5	11.0	9.6	8.1	6.7	5.2	3.8	2.3
160°	11.8	9.6	7.4	6.7	6.0	5.2	4.5	3.8	3.1	2.3	1.6
162.5°	4.9	3.8	2.8	2.6	2.4	2.2	2.0	1.7	1.5	1.3	1.1
165°	1.5	1.2	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
175°	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201359

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1
2.5°	824.9	827.5	830.1	832.7	835.3	837.8	840.4	843.0	845.6	848.2	848.4
5°	813.7	817.1	820.5	823.9	827.3	830.8	834.2	837.6	841.0	844.4	845.7
7.5°	799.8	803.9	808.1	812.2	816.3	820.5	824.6	828.7	832.9	837.0	839.6
10°	784.9	789.8	794.6	799.5	804.3	809.2	814.0	818.9	823.7	828.6	832.4
12.5°	770.0	775.2	780.3	785.5	790.7	795.8	801.0	806.2	811.3	816.5	821.5
15°	753.3	758.8	764.3	769.7	775.2	780.7	786.2	791.6	797.1	802.6	808.9
17.5°	737.5	743.0	748.5	753.9	759.4	764.9	770.4	775.8	781.3	786.8	794.4
20°	720.7	725.9	731.0	736.2	741.4	746.5	751.7	756.9	762.0	767.2	776.3
22.5°	704.0	708.8	713.5	718.3	723.0	727.8	732.5	737.3	742.0	746.8	757.5
25°	686.3	690.4	694.6	698.7	702.8	707.0	711.1	715.2	719.4	723.5	735.8
27.5°	669.6	672.9	676.2	679.5	682.8	686.2	689.5	692.8	696.1	699.4	713.3
30°	655.6	657.6	659.5	661.5	663.5	665.4	667.4	669.4	671.3	673.3	689.1
32.5°	644.5	644.6	644.7	644.8	644.9	645.0	645.1	645.2	645.3	645.4	663.1
35°	634.3	632.2	630.2	628.1	626.0	624.0	621.9	619.8	617.8	615.7	635.6
37.5°	622.2	618.2	614.1	610.1	606.1	602.0	598.0	594.0	589.9	585.9	608.1
40°	611.0	604.8	598.6	592.4	586.2	580.0	573.8	567.6	561.4	555.2	579.8
42.5°	598.0	589.6	581.3	572.9	564.5	556.2	547.8	539.4	531.1	522.7	549.8
45°	584.0	573.6	563.1	552.7	542.3	531.8	521.4	511.0	500.5	490.1	519.3
47.5°	570.1	557.6	545.1	532.6	520.1	507.6	495.1	482.6	470.1	457.6	489.2
50°	554.3	539.9	525.6	511.2	496.8	482.5	468.1	453.7	439.4	425.0	458.9
52.5°	538.5	522.1	505.6	489.2	472.8	456.3	439.9	423.5	407.0	390.6	426.9
55°	522.7	504.3	485.9	467.5	449.1	430.7	412.3	393.9	375.5	357.1	395.4
57.5°	505.9	485.8	465.6	445.5	425.3	405.2	385.0	364.9	344.7	324.6	364.8
60°	488.2	466.4	444.6	422.8	401.0	379.2	357.4	335.6	313.8	292.0	334.0
62.5°	470.6	447.1	423.7	400.2	376.8	353.3	329.9	306.4	283.0	259.5	303.1
65°	449.2	424.5	399.8	375.1	350.4	325.7	301.0	276.3	251.6	226.9	272.0
67.5°	429.7	403.3	377.0	350.6	324.3	297.9	271.6	245.2	218.9	192.5	239.1
70°	409.2	381.7	354.2	326.7	299.2	271.8	244.3	216.8	189.3	161.8	209.4
72.5°	386.9	358.6	330.3	302.0	273.7	245.3	217.0	188.7	160.4	132.1	180.6
75°	362.7	334.0	305.3	276.5	247.8	219.1	190.4	161.6	132.9	104.2	153.1
77.5°	339.4	310.4	281.3	252.3	223.3	194.2	165.2	136.2	107.1	78.1	127.2
80°	316.2	287.2	258.1	229.1	200.1	171.0	142.0	113.0	83.9	54.9	103.8
82.5°	292.9	264.2	235.5	206.7	178.0	149.3	120.6	91.8	63.1	34.4	82.8
85°	271.6	243.4	215.2	187.0	158.8	130.5	102.3	74.1	45.9	17.7	65.1
87.5°	253.0	225.5	198.0	170.5	143.0	115.6	88.1	60.6	33.1	5.6	51.8
90°	239.9	213.3	186.8	160.2	133.7	107.1	80.6	54.0	27.5	0.9	45.3
92.5°	229.7	204.2	178.7	153.1	127.6	102.1	76.6	51.0	25.5	0.0	42.9
95°	216.7	192.7	168.7	144.8	120.8	96.8	72.8	48.9	24.9	0.9	41.9
97.5°	205.5	182.7	159.8	137.0	114.2	91.3	68.5	45.7	22.8	0.0	39.3
100°	193.4	172.0	150.6	129.2	107.8	86.5	65.1	43.7	22.3	0.9	38.2
102.5°	181.3	161.3	141.2	121.2	101.1	81.1	61.0	41.0	20.9	0.9	36.7
105°	169.3	150.6	131.9	113.2	94.5	75.7	57.0	38.3	19.6	0.9	34.5
107.5°	157.2	139.8	122.5	105.1	87.7	70.4	53.0	35.6	18.3	0.9	32.7
110°	145.1	129.1	113.1	97.0	81.0	65.0	49.0	32.9	16.9	0.9	30.7





TEST NUMBER: P201359

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	133.0	118.3	103.6	89.0	74.3	59.6	44.9	30.3	15.6	0.9	28.5
115°	120.9	107.6	94.2	80.9	67.6	54.2	40.9	27.6	14.2	0.9	26.2
117.5°	108.8	96.8	84.8	72.8	60.8	48.9	36.9	24.9	12.9	0.9	23.9
120°	97.6	86.9	76.1	65.4	54.6	43.9	33.1	22.4	11.6	0.9	21.8
122.5°	86.5	77.0	67.5	58.0	48.5	38.9	29.4	19.9	10.4	0.9	19.6
125°	75.3	67.0	58.8	50.5	42.2	34.0	25.7	17.4	9.2	0.9	17.3
127.5°	64.2	57.2	50.1	43.1	36.1	29.0	22.0	15.0	7.9	0.9	14.7
130°	53.9	48.0	42.1	36.2	30.3	24.5	18.6	12.7	6.8	0.9	12.4
132.5°	44.6	39.7	34.9	30.0	25.2	20.3	15.5	10.6	5.8	0.9	10.1
135°	35.3	31.5	27.7	23.8	20.0	16.2	12.4	8.5	4.7	0.9	8.0
137.5°	27.9	24.9	21.9	18.9	15.9	12.9	9.9	6.9	3.9	0.9	6.4
140°	19.5	17.4	15.4	13.3	11.2	9.2	7.1	5.0	3.0	0.9	4.7
142.5°	13.0	11.7	10.3	9.0	7.6	6.3	4.9	3.6	2.2	0.9	3.7
145°	8.4	7.6	6.7	5.9	5.1	4.2	3.4	2.6	1.7	0.9	2.7
147.5°	6.5	5.9	5.3	4.6	4.0	3.4	2.8	2.1	1.5	0.9	2.1
150°	4.6	4.2	3.8	3.4	3.0	2.5	2.1	1.7	1.3	0.9	1.7
152.5°	2.8	2.6	2.4	2.2	2.0	1.7	1.5	1.3	1.1	0.9	1.5
155°	1.9	1.8	1.7	1.6	1.5	1.3	1.2	1.1	1.0	0.9	1.3
157.5°	0.9	1.0	1.1	1.2	1.3	1.5	1.6	1.7	1.8	1.9	2.0
160°	0.9	1.0	1.1	1.2	1.3	1.5	1.6	1.7	1.8	1.9	1.9
162.5°	0.9	1.0	1.1	1.2	1.3	1.5	1.6	1.7	1.8	1.9	1.8
165°	0.9	1.0	1.1	1.2	1.3	1.5	1.6	1.7	1.8	1.9	1.7
167.5°	0.0	0.2	0.4	0.6	0.8	1.1	1.3	1.5	1.7	1.9	1.7
170°	0.0	0.2	0.4	0.6	0.8	1.1	1.3	1.5	1.7	1.9	1.7
172.5°	0.9	1.0	1.1	1.2	1.3	1.5	1.6	1.7	1.8	1.9	1.7
175°	0.9	1.0	1.1	1.2	1.3	1.5	1.6	1.7	1.8	1.9	1.7
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201359

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1
2.5°	848.6	848.8	849.0	849.2	849.4	849.6	849.8	850.0	850.8	851.6	852.5
5°	847.1	848.4	849.8	851.1	852.5	853.8	855.2	856.5	858.5	860.4	862.4
7.5°	842.2	844.7	847.3	849.9	852.5	855.0	857.6	860.2	863.4	866.6	869.8
10°	836.2	840.1	843.9	847.7	851.5	855.4	859.2	863.0	867.4	871.9	876.3
12.5°	826.4	831.4	836.4	841.3	846.3	851.3	856.2	861.2	867.3	873.4	879.5
15°	815.2	821.5	827.8	834.1	840.4	846.7	853.0	859.3	867.1	874.8	882.6
17.5°	802.1	809.7	817.4	825.0	832.7	840.3	848.0	855.6	865.5	875.4	885.4
20°	785.4	794.5	803.6	812.7	821.8	830.9	840.0	849.1	861.6	874.1	886.6
22.5°	768.3	779.0	789.8	800.5	811.3	822.0	832.8	843.5	858.8	874.1	889.4
25°	748.1	760.4	772.7	785.0	797.3	809.6	821.9	834.2	852.6	871.0	889.4
27.5°	727.3	741.2	755.2	769.1	783.1	797.0	811.0	824.9	846.4	867.9	889.4
30°	704.9	720.7	736.5	752.4	768.2	784.0	799.8	815.6	839.9	864.2	888.4
32.5°	680.7	698.4	716.1	733.7	751.4	769.1	786.7	804.4	831.5	858.6	885.6
35°	655.6	675.5	695.4	715.4	735.3	755.2	775.2	795.1	824.8	854.4	884.1
37.5°	630.3	652.5	674.7	697.0	719.2	741.4	763.6	785.8	817.9	850.1	882.2
40°	604.4	629.0	653.6	678.1	702.7	727.3	751.9	776.5	811.0	845.5	880.1
42.5°	576.8	603.9	631.0	658.0	685.1	712.2	739.2	766.3	803.1	839.9	876.7
45°	548.6	577.8	607.1	636.3	665.6	694.8	724.1	753.3	792.6	831.8	871.1
47.5°	520.8	552.4	584.0	615.7	647.3	678.9	710.5	742.1	783.3	824.6	865.8
50°	492.8	526.7	560.6	594.4	628.3	662.2	696.1	730.0	773.2	816.4	859.6
52.5°	463.1	499.4	535.7	571.9	608.2	644.5	680.7	717.0	762.0	806.9	851.9
55°	433.8	472.1	510.4	548.8	587.1	625.4	663.8	702.1	748.9	795.7	842.5
57.5°	405.0	445.2	485.4	525.5	565.7	605.9	646.1	686.3	735.1	783.9	832.6
60°	375.9	417.9	459.8	501.8	543.7	585.7	627.6	669.6	720.1	770.7	821.2
62.5°	346.7	390.3	433.9	477.5	521.1	564.7	608.3	651.9	704.2	756.5	808.8
65°	317.0	362.1	407.1	452.2	497.2	542.3	587.3	632.4	686.4	740.5	794.5
67.5°	285.7	332.3	378.9	425.5	472.1	518.7	565.3	611.9	667.6	723.3	779.0
70°	257.1	304.7	352.3	400.0	447.6	495.2	542.9	590.5	647.5	704.6	761.6
72.5°	229.0	277.5	325.9	374.4	422.8	471.3	519.7	568.2	626.0	683.7	741.5
75°	201.9	250.8	299.7	348.5	397.4	446.3	495.1	544.0	602.4	660.8	719.2
77.5°	176.3	225.4	274.5	323.5	372.6	421.7	470.8	519.9	578.3	636.7	695.0
80°	152.7	201.5	250.4	299.3	348.2	397.0	445.9	494.8	552.9	610.9	669.0
82.5°	131.1	179.5	227.8	276.2	324.5	372.9	421.2	469.6	527.2	584.7	642.3
85°	112.5	160.0	207.4	254.8	302.2	349.7	397.1	444.5	501.3	558.2	615.0
87.5°	98.0	144.2	190.4	236.5	282.7	328.9	375.1	421.3	477.1	532.9	588.7
90°	89.8	134.2	178.6	223.1	267.5	311.9	356.4	400.8	455.4	509.9	564.5
92.5°	85.8	128.6	171.5	214.4	257.3	300.1	343.0	385.9	439.4	493.0	546.5
95°	82.9	124.0	165.0	206.0	247.0	288.1	329.1	370.1	422.8	475.5	528.2
97.5°	78.5	117.8	157.1	196.3	235.6	274.9	314.1	353.4	405.4	457.4	509.3
100°	75.5	112.8	150.1	187.5	224.8	262.1	299.4	336.7	387.8	439.0	490.1
102.5°	72.4	108.2	143.9	179.7	215.4	251.2	286.9	322.7	372.7	422.7	472.7
105°	68.1	101.7	135.3	168.8	202.4	236.0	269.6	303.2	352.4	401.6	450.8
107.5°	64.6	96.4	128.2	160.1	191.9	223.7	255.6	287.4	335.2	383.1	430.9
110°	60.4	90.2	120.0	149.7	179.5	209.3	239.0	268.8	315.4	362.0	408.6



TEST NUMBER: P201359

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	56.1	83.7	111.3	138.8	166.4	194.0	221.6	249.2	294.7	340.1	385.6
115°	51.5	76.9	102.2	127.5	152.8	178.2	203.5	228.8	273.1	317.4	361.8
117.5°	47.0	70.0	93.1	116.1	139.2	162.2	185.3	208.3	251.2	294.1	337.0
120°	42.7	63.5	84.4	105.3	126.2	147.0	167.9	188.8	230.2	271.7	313.1
122.5°	38.3	57.0	75.7	94.5	113.2	131.9	150.6	169.3	209.1	248.9	288.6
125°	33.8	50.2	66.6	83.1	99.5	115.9	132.4	148.8	186.7	224.6	262.6
127.5°	28.6	42.4	56.3	70.1	84.0	97.8	111.7	125.5	161.3	197.0	232.8
130°	23.9	35.3	46.8	58.3	69.8	81.2	92.7	104.2	136.6	169.1	201.5
132.5°	19.3	28.5	37.7	46.9	56.1	65.3	74.5	83.7	112.9	142.2	171.4
135°	15.2	22.3	29.4	36.6	43.7	50.8	58.0	65.1	91.3	117.6	143.8
137.5°	11.9	17.3	22.8	28.3	33.8	39.2	44.7	50.2	73.5	96.7	120.0
140°	8.5	12.4	16.2	20.0	23.8	27.7	31.5	35.3	55.7	76.0	96.4
142.5°	6.5	9.3	12.1	14.8	17.6	20.4	23.2	26.0	43.4	60.7	78.1
145°	4.4	6.2	7.9	9.7	11.4	13.2	14.9	16.7	31.4	46.1	60.7
147.5°	3.4	4.6	5.9	7.1	8.4	9.6	10.9	12.1	23.9	35.7	47.4
150°	2.6	3.4	4.2	5.1	5.9	6.7	7.6	8.4	17.4	26.4	35.4
152.5°	2.1	2.8	3.4	4.0	4.6	5.3	5.9	6.5	13.0	19.5	26.0
155°	1.7	2.1	2.5	3.0	3.4	3.8	4.2	4.6	8.7	12.9	17.0
157.5°	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	5.2	7.6	9.9
160°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.1	4.4	5.6
162.5°	1.7	1.6	1.5	1.3	1.2	1.1	1.0	0.9	1.5	2.1	2.8
165°	1.5	1.3	1.1	0.8	0.6	0.4	0.2	0.0	0.2	0.4	0.6
167.5°	1.5	1.3	1.1	0.8	0.6	0.4	0.2	0.0	0.0	0.0	0.0
170°	1.5	1.3	1.1	0.8	0.6	0.4	0.2	0.0	0.0	0.0	0.0
172.5°	1.5	1.3	1.1	0.8	0.6	0.4	0.2	0.0	0.0	0.0	0.0
175°	1.5	1.3	1.1	0.8	0.6	0.4	0.2	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201359

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1
2.5°	853.3	854.1	854.9	855.8	856.6	857.4	857.8	858.2	858.7	859.1	859.5
5°	864.4	866.3	868.3	870.3	872.2	874.2	875.2	876.3	877.3	878.3	879.4
7.5°	873.0	876.3	879.5	882.7	885.9	889.1	891.1	893.0	895.0	896.9	898.9
10°	880.8	885.2	889.7	894.1	898.6	903.0	906.3	909.6	912.9	916.2	919.6
12.5°	885.6	891.6	897.7	903.8	909.9	916.0	920.7	925.3	930.0	934.6	939.3
15°	890.3	898.1	905.8	913.6	921.3	929.1	935.5	941.9	948.3	954.7	961.1
17.5°	895.3	905.2	915.1	925.1	935.0	944.9	953.7	962.5	971.2	980.0	988.8
20°	899.1	911.6	924.1	936.6	949.1	961.6	972.3	983.1	993.8	1004.6	1015.3
22.5°	904.7	919.9	935.2	950.5	965.8	981.1	993.3	1005.5	1017.7	1029.9	1042.1
25°	907.8	926.1	944.5	962.9	981.3	999.7	1013.6	1027.4	1041.3	1055.1	1069.0
27.5°	910.9	932.3	953.8	975.3	996.8	1018.3	1033.5	1048.7	1063.9	1079.1	1094.2
30°	912.7	937.0	961.3	985.5	1009.8	1034.1	1050.8	1067.6	1084.3	1101.1	1117.8
32.5°	912.7	939.8	966.9	993.9	1021.0	1048.1	1066.5	1084.9	1103.3	1121.7	1140.0
35°	913.7	943.4	973.0	1002.7	1032.3	1062.0	1082.2	1102.3	1122.5	1142.6	1162.8
37.5°	914.4	946.5	978.7	1010.8	1043.0	1075.1	1097.0	1118.9	1140.8	1162.7	1184.6
40°	914.6	949.1	983.6	1018.2	1052.7	1087.2	1110.9	1134.5	1158.2	1181.8	1205.5
42.5°	913.5	950.2	987.0	1023.8	1060.6	1097.4	1122.8	1148.2	1173.7	1199.1	1224.5
45°	910.4	949.6	988.9	1028.2	1067.4	1106.7	1134.1	1161.5	1188.8	1216.2	1243.6
47.5°	907.0	948.3	989.5	1030.7	1072.0	1113.2	1142.9	1172.5	1202.2	1231.8	1261.5
50°	902.8	946.0	989.2	1032.4	1075.6	1118.8	1150.6	1182.4	1214.3	1246.1	1277.9
52.5°	896.8	941.8	986.7	1031.7	1076.6	1121.6	1155.9	1190.2	1224.5	1258.8	1293.1
55°	889.3	936.2	983.0	1029.8	1076.6	1123.4	1159.8	1196.2	1232.5	1268.9	1305.3
57.5°	881.4	930.2	979.0	1027.7	1076.5	1125.3	1163.7	1202.2	1240.6	1279.0	1317.5
60°	871.7	922.3	972.8	1023.3	1073.9	1124.4	1164.7	1205.0	1245.3	1285.6	1325.9
62.5°	861.1	913.3	965.6	1017.9	1070.2	1122.5	1164.3	1206.2	1248.0	1289.9	1331.7
65°	848.6	902.6	956.7	1010.7	1064.8	1118.8	1161.9	1205.0	1248.1	1291.2	1334.2
67.5°	834.7	890.4	946.1	1001.8	1057.5	1113.2	1157.2	1201.2	1245.3	1289.3	1333.3
70°	818.7	875.7	932.8	989.8	1046.9	1103.9	1148.7	1193.6	1238.4	1283.3	1328.1
72.5°	799.3	857.0	914.8	972.6	1030.3	1088.1	1133.6	1179.0	1224.5	1270.0	1315.4
75°	777.6	835.9	894.3	952.7	1011.1	1069.5	1115.3	1161.1	1206.8	1252.6	1298.4
77.5°	753.4	811.8	870.2	928.5	986.9	1045.3	1090.9	1136.4	1182.0	1227.6	1273.1
80°	727.1	785.1	843.2	901.3	959.3	1017.4	1062.6	1107.7	1152.9	1198.0	1243.2
82.5°	699.8	757.4	814.9	872.5	930.0	987.6	1032.5	1077.3	1122.2	1167.0	1211.9
85°	671.8	728.7	785.5	842.3	899.2	956.0	999.7	1043.4	1087.1	1130.8	1174.6
87.5°	644.5	700.3	756.1	811.9	867.7	923.5	966.6	1009.7	1052.8	1095.9	1138.9
90°	619.1	673.6	728.2	782.8	837.3	891.9	933.6	975.4	1017.1	1058.9	1100.6
92.5°	600.0	653.6	707.1	760.6	814.2	867.7	908.3	948.9	989.5	1030.1	1070.8
95°	580.9	633.6	686.3	739.0	791.7	844.4	884.4	924.4	964.4	1004.4	1044.3
97.5°	561.3	613.3	665.3	717.2	769.2	821.2	860.2	899.1	938.1	977.0	1016.0
100°	541.3	592.4	643.6	694.7	745.9	797.0	834.7	872.4	910.1	947.8	985.6
102.5°	522.7	572.8	622.8	672.8	722.8	772.8	809.8	846.8	883.8	920.8	957.8
105°	500.0	549.1	598.3	647.5	696.7	745.9	782.3	818.6	855.0	891.4	927.7
107.5°	478.8	526.6	574.5	622.3	670.2	718.0	753.7	789.5	825.2	861.0	896.7
110°	455.2	501.8	548.4	595.0	641.6	688.2	723.1	758.0	793.0	827.9	862.8



TEST NUMBER: P201359

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	431.1	476.5	522.0	567.5	612.9	658.4	692.4	726.4	760.4	794.4	828.4
115°	406.1	450.4	494.7	539.1	583.4	627.7	660.8	693.8	726.9	760.0	793.0
117.5°	379.9	422.7	465.6	508.5	551.4	594.3	626.4	658.6	690.7	722.8	755.0
120°	354.5	396.0	437.4	478.8	520.3	561.7	592.5	623.3	654.1	684.9	715.7
122.5°	328.4	368.2	408.0	447.7	487.5	527.3	557.0	586.6	616.3	645.9	675.6
125°	300.5	338.4	376.3	414.3	452.2	490.1	518.5	546.9	575.4	603.8	632.2
127.5°	268.5	304.3	340.0	375.8	411.5	447.3	475.1	502.9	530.7	558.5	586.3
130°	234.0	266.4	298.9	331.3	363.8	396.2	424.2	452.2	480.2	508.2	536.2
132.5°	200.7	229.9	259.2	288.4	317.7	346.9	374.7	402.5	430.3	458.1	485.9
135°	170.1	196.3	222.6	248.8	275.1	301.3	328.2	355.0	381.9	408.8	435.6
137.5°	143.2	166.5	189.7	213.0	236.2	259.5	284.4	309.3	334.2	359.1	384.0
140°	116.7	137.1	157.4	177.8	198.1	218.5	240.9	263.4	285.8	308.2	330.7
142.5°	95.5	112.8	130.2	147.6	164.9	182.3	202.1	222.0	241.8	261.6	281.5
145°	75.4	90.1	104.8	119.4	134.1	148.8	166.0	183.1	200.3	217.4	234.6
147.5°	59.2	71.0	82.8	94.5	106.3	118.1	132.8	147.5	162.1	176.8	191.5
150°	44.4	53.3	62.3	71.3	80.3	89.3	101.5	113.7	125.9	138.1	150.2
152.5°	32.5	39.1	45.6	52.1	58.6	65.1	75.0	84.9	94.9	104.8	114.7
155°	21.1	25.3	29.4	33.5	37.7	41.8	49.8	57.7	65.7	73.7	81.6
157.5°	12.3	14.7	17.1	19.4	21.8	24.2	30.2	36.2	42.2	48.2	54.1
160°	6.8	8.1	9.3	10.5	11.8	13.0	16.8	20.6	24.5	28.3	32.1
162.5°	3.4	4.0	4.6	5.3	5.9	6.5	8.4	10.2	12.1	13.9	15.8
165°	0.8	1.1	1.3	1.5	1.7	1.9	2.6	3.3	4.1	4.8	5.5
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.4	0.6	0.8	1.1
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201359

CATALOG NUMBER: 4LBLEDD4-7-ASYMW-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1	835.1
2.5°	859.9	860.4	860.8	861.2	860.3	859.3	858.4	857.5	856.5	855.6	854.7
5°	880.4	881.4	882.5	883.5	883.4	883.3	883.2	883.1	883.0	882.9	882.8
7.5°	900.8	902.8	904.7	906.7	906.9	907.1	907.3	907.5	907.8	908.0	908.2
10°	922.9	926.2	929.5	932.8	933.2	933.6	934.0	934.4	934.9	935.3	935.7
12.5°	943.9	948.6	953.2	957.9	959.1	960.4	961.6	962.8	964.1	965.3	966.5
15°	967.5	973.9	980.3	986.7	989.0	991.3	993.5	995.8	998.1	1000.4	1002.6
17.5°	997.6	1006.3	1015.1	1023.9	1026.7	1029.5	1032.3	1035.1	1037.8	1040.6	1043.4
20°	1026.1	1036.8	1047.6	1058.3	1061.7	1065.1	1068.5	1071.9	1075.4	1078.8	1082.2
22.5°	1054.3	1066.5	1078.7	1090.9	1095.0	1099.2	1103.3	1107.4	1111.6	1115.7	1119.8
25°	1082.8	1096.7	1110.5	1124.4	1129.0	1133.7	1138.3	1143.0	1147.6	1152.3	1156.9
27.5°	1109.4	1124.6	1139.8	1155.0	1160.4	1165.8	1171.1	1176.5	1181.9	1187.3	1192.6
30°	1134.6	1151.3	1168.1	1184.8	1190.9	1197.0	1203.1	1209.2	1215.3	1221.4	1227.5
32.5°	1158.4	1176.8	1195.2	1213.6	1220.7	1227.9	1235.0	1242.1	1249.3	1256.4	1263.5
35°	1182.9	1203.1	1223.2	1243.4	1251.3	1259.1	1267.0	1274.8	1282.7	1290.5	1298.4
37.5°	1206.5	1228.4	1250.3	1272.2	1280.9	1289.6	1298.2	1306.9	1315.6	1324.3	1332.9
40°	1229.1	1252.8	1276.4	1300.1	1309.7	1319.3	1328.9	1338.5	1348.2	1357.8	1367.4
42.5°	1249.9	1275.4	1300.8	1326.2	1336.8	1347.5	1358.1	1368.8	1379.4	1390.1	1400.7
45°	1271.0	1298.3	1325.7	1353.1	1364.7	1376.3	1387.8	1399.4	1411.0	1422.6	1434.1
47.5°	1291.1	1320.8	1350.4	1380.1	1392.6	1405.1	1417.6	1430.1	1442.6	1455.1	1467.6
50°	1309.7	1341.6	1373.4	1405.2	1418.7	1432.3	1445.8	1459.3	1472.9	1486.4	1499.9
52.5°	1327.4	1361.7	1396.0	1430.3	1444.7	1459.0	1473.4	1487.8	1502.1	1516.5	1530.9
55°	1341.7	1378.0	1414.4	1450.8	1466.2	1481.6	1497.0	1512.4	1527.8	1543.2	1558.6
57.5°	1355.9	1394.3	1432.8	1471.2	1487.2	1503.2	1519.3	1535.3	1551.3	1567.3	1583.4
60°	1366.2	1406.5	1446.8	1487.1	1503.7	1520.4	1537.0	1553.6	1570.3	1586.9	1603.5
62.5°	1373.6	1415.4	1457.3	1499.1	1516.2	1533.2	1550.3	1567.3	1584.4	1601.4	1618.5
65°	1377.3	1420.4	1463.5	1506.6	1524.0	1541.3	1558.7	1576.0	1593.4	1610.7	1628.1
67.5°	1377.3	1421.4	1465.4	1509.4	1526.9	1544.3	1561.8	1579.2	1596.7	1614.1	1631.6
70°	1373.0	1417.8	1462.7	1507.5	1525.0	1542.4	1559.9	1577.4	1594.8	1612.3	1629.8
72.5°	1360.9	1406.4	1451.8	1497.3	1514.9	1532.4	1550.0	1567.6	1585.1	1602.7	1620.3
75°	1344.2	1389.9	1435.7	1481.5	1498.9	1516.2	1533.6	1550.9	1568.3	1585.6	1603.0
77.5°	1318.7	1364.3	1409.8	1455.4	1472.7	1489.9	1507.2	1524.4	1541.7	1558.9	1576.2
80°	1288.3	1333.5	1378.6	1423.8	1441.0	1458.1	1475.3	1492.4	1509.6	1526.7	1543.9
82.5°	1256.7	1301.6	1346.4	1391.3	1407.8	1424.4	1440.9	1457.4	1474.0	1490.5	1507.0
85°	1218.3	1262.0	1305.7	1349.4	1366.0	1382.7	1399.3	1415.9	1432.6	1449.2	1465.8
87.5°	1182.0	1225.1	1268.2	1311.3	1327.3	1343.3	1359.3	1375.3	1391.4	1407.4	1423.4
90°	1142.4	1184.1	1225.9	1267.6	1283.8	1300.0	1316.3	1332.5	1348.7	1364.9	1381.2
92.5°	1111.4	1152.0	1192.6	1233.2	1249.0	1264.8	1280.6	1296.4	1312.3	1328.1	1343.9
95°	1084.3	1124.3	1164.3	1204.3	1219.1	1233.9	1248.6	1263.4	1278.2	1293.0	1307.7
97.5°	1054.9	1093.9	1132.8	1171.8	1186.2	1200.5	1214.9	1229.3	1243.6	1258.0	1272.4
100°	1023.3	1061.0	1098.7	1136.4	1150.8	1165.1	1179.5	1193.9	1208.2	1222.6	1237.0
102.5°	994.8	1031.8	1068.8	1105.8	1119.8	1133.9	1147.9	1162.0	1176.0	1190.1	1204.1
105°	964.1	1000.5	1036.8	1073.2	1086.9	1100.7	1114.4	1128.2	1141.9	1155.7	1169.4
107.5°	932.5	968.2	1004.0	1039.7	1053.2	1066.8	1080.3	1093.9	1107.4	1121.0	1134.5
110°	897.7	932.7	967.6	1002.5	1015.7	1029.0	1042.2	1055.4	1068.7	1081.9	1095.1



TEST NUMBER: P201359

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	862.4	896.4	930.4	964.4	977.3	990.2	1003.1	1016.0	1029.0	1041.9	1054.8
115°	826.1	859.2	892.2	925.3	937.7	950.1	962.5	974.9	987.3	999.7	1012.1
117.5°	787.1	819.2	851.4	883.5	895.5	907.5	919.5	931.5	943.4	955.4	967.4
120°	746.5	777.3	808.1	838.9	850.7	862.5	874.2	886.0	897.8	909.6	921.3
122.5°	705.2	734.9	764.5	794.2	805.6	816.9	828.3	839.7	851.0	862.4	873.8
125°	660.6	689.1	717.5	745.9	756.7	767.6	778.4	789.3	800.1	811.0	821.8
127.5°	614.1	641.9	669.7	697.5	707.7	718.0	728.2	738.4	748.7	758.9	769.1
130°	564.2	592.2	620.2	648.2	657.9	667.6	677.3	687.0	696.8	706.5	716.2
132.5°	513.7	541.5	569.3	597.1	607.0	616.9	626.8	636.7	646.7	656.6	666.5
135°	462.5	489.4	516.2	543.1	552.6	562.1	571.6	581.1	590.7	600.2	609.7
137.5°	408.9	433.8	458.7	483.6	493.2	502.8	512.4	522.0	531.7	541.3	550.9
140°	353.1	375.5	398.0	420.4	430.3	440.2	450.1	460.0	470.0	479.9	489.8
142.5°	301.3	321.1	341.0	360.8	370.9	381.1	391.2	401.3	411.5	421.6	431.7
145°	251.7	268.9	286.0	303.2	313.7	324.3	334.8	345.3	355.9	366.4	376.9
147.5°	206.2	220.8	235.5	250.2	260.7	271.3	281.8	292.3	302.9	313.4	323.9
150°	162.4	174.6	186.8	199.0	209.5	220.1	230.6	241.2	251.7	262.3	272.8
152.5°	124.6	134.6	144.5	154.4	164.3	174.2	184.2	194.1	204.0	213.9	223.9
155°	89.6	97.6	105.5	113.5	122.3	131.1	139.8	148.6	157.4	166.2	174.9
157.5°	60.1	66.1	72.1	78.1	85.6	93.2	100.7	108.3	115.8	123.4	130.9
160°	35.9	39.8	43.6	47.4	53.5	59.6	65.7	71.8	77.9	84.0	90.1
162.5°	17.6	19.5	21.3	23.2	27.3	31.5	35.6	39.7	43.9	48.0	52.1
165°	6.2	7.0	7.7	8.4	10.9	13.4	15.8	18.3	20.8	23.3	25.7
167.5°	1.3	1.5	1.7	1.9	2.8	3.7	4.7	5.6	6.5	7.4	8.4
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P201359

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
0°	835.1	835.1
2.5°	853.7	852.8
5°	882.7	882.6
7.5°	908.4	908.6
10°	936.1	936.5
12.5°	967.8	969.0
15°	1004.9	1007.2
17.5°	1046.2	1049.0
20°	1085.6	1089.0
22.5°	1124.0	1128.1
25°	1161.6	1166.2
27.5°	1198.0	1203.4
30°	1233.6	1239.7
32.5°	1270.7	1277.8
35°	1306.2	1314.1
37.5°	1341.6	1350.3
40°	1377.0	1386.6
42.5°	1411.4	1422.0
45°	1445.7	1457.3
47.5°	1480.1	1492.6
50°	1513.5	1527.0
52.5°	1545.2	1559.6
55°	1574.0	1589.4
57.5°	1599.4	1615.4
60°	1620.2	1636.8
62.5°	1635.5	1652.6
65°	1645.4	1662.8
67.5°	1649.0	1666.5
70°	1647.2	1664.7
72.5°	1637.8	1655.4
75°	1620.3	1637.7
77.5°	1593.4	1610.7
80°	1561.0	1578.2
82.5°	1523.6	1540.1
85°	1482.5	1499.1
87.5°	1439.4	1455.4
90°	1397.4	1413.6
92.5°	1359.7	1375.5
95°	1322.5	1337.3
97.5°	1286.7	1301.1
100°	1251.3	1265.7
102.5°	1218.2	1232.2
105°	1183.2	1196.9
107.5°	1148.1	1161.6
110°	1108.4	1121.6





TEST NUMBER: P201359

CATALOG NUMBER: 4LBLED-LD4-7-ASYMW-UNV-L850-CD2-U

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
112.5°	1067.7	1080.6
115°	1024.5	1036.9
117.5°	979.4	991.4
120°	933.1	944.9
122.5°	885.1	896.5
125°	832.7	843.5
127.5°	779.4	789.6
130°	725.9	735.6
132.5°	676.4	686.3
135°	619.2	628.7
137.5°	560.5	570.1
140°	499.7	509.6
142.5°	441.9	452.0
145°	387.5	398.0
147.5°	334.5	345.0
150°	283.4	293.9
152.5°	233.8	243.7
155°	183.7	192.5
157.5°	138.5	146.0
160°	96.2	102.3
162.5°	56.3	60.4
165°	28.2	30.7
167.5°	9.3	10.2
170°	0.0	0.0
172.5°	0.0	0.0
175°	0.0	0.0
177.5°	0.0	0.0
180°	0.0	0.0

(END OF REPORT)