

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: P201345

Luminaire Tested: **4LBLED-LD4-8-ASYMF-UNV-L835-CD2-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P201345  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28235)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4LBLED-LD4-8-ASYMF-UNV-L835-CD2-U  
Description: 4 ft. Low Bay Linear, 8000 lm, Frst Asym lens, 3.5K  
Light Source: (308) 3500K CCT, 80 CRI LEDS  
2UT217098A8350C, 2UT217056A8350B  
Ballast/Driver: OSRAM  
OT50W0900CC, OT30W0500CC

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8545.5 lumens  
Efficiency: N/A  
Efficacy: 133.1 lumens/watt  
Spacing Criteria (0/90/45): 2.01 / 1.17 / 1.78  
Luminous Opening: Rectangular w/ Sides (W: 4' x L: 0.17' x H: 0.21')  
CIE Type: Semi-Direct

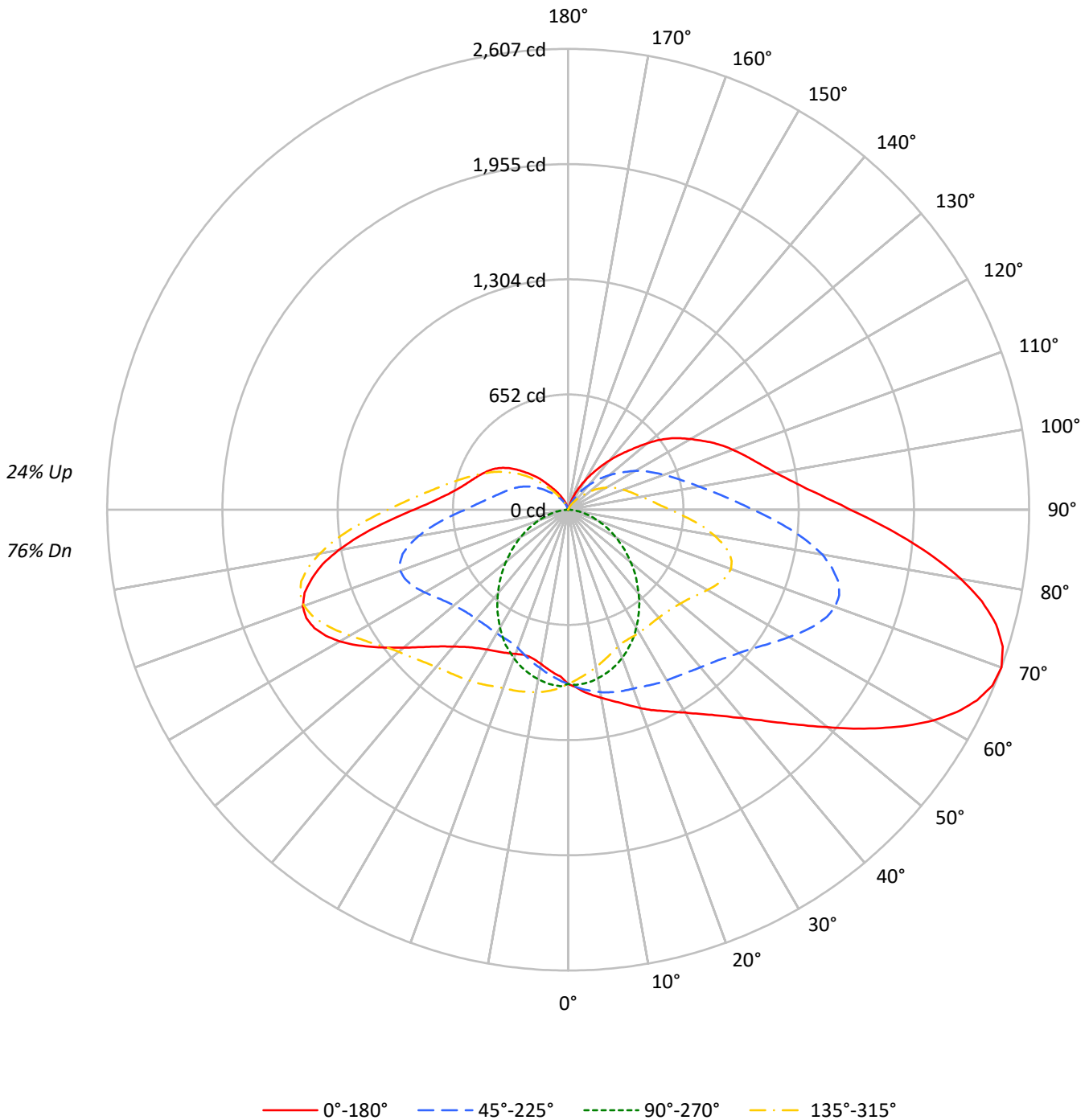
Input Watts (W): 64.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	113	113	113	113	108	108	108	108	98	98	98	89	89	89	80	80	80	76
1	98	90	84	78	92	86	80	75	77	72	68	69	65	62	61	59	56	52
2	86	75	66	59	81	71	63	56	64	57	51	57	51	46	50	46	42	38
3	77	64	54	46	72	61	51	44	54	46	40	48	42	36	42	37	33	29
4	70	55	45	37	65	52	43	35	47	39	32	41	35	29	37	31	26	23
5	63	49	38	31	59	46	37	29	41	33	27	37	30	24	32	27	22	19
6	58	43	33	26	54	41	32	25	37	29	23	33	26	21	29	23	19	16
7	54	39	29	22	50	37	28	21	33	25	20	29	23	18	26	20	16	14
8	50	35	26	19	47	33	25	19	30	22	17	27	20	16	24	18	14	12
9	46	32	23	17	43	30	22	16	27	20	15	25	18	14	22	17	13	10
10	43	29	21	15	41	28	20	15	25	18	13	23	17	12	20	15	11	9

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

	0°	90°	180°	270°
0°	15878	15878	15878	15878
5°	15090	15914	13524	16025
10°	14489	15704	11885	15800
15°	14136	15418	10747	15482
20°	14092	15023	10243	15057
25°	14120	14522	10008	14590
30°	14344	13920	9886	13920
35°	14889	13223	9992	13223
40°	15841	12472	10388	12452
45°	17300	11760	11109	11676
50°	19319	10887	12250	10840
55°	21777	10050	13678	9998
60°	24340	9177	15218	9177
65°	26496	8281	16457	8315
70°	27779	7272	17018	7313
75°	27620	6215	16541	6267
80°	25956	4873	15172	5081
85°	23316	3085	13153	3432



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	93.6	1.1
10°-20°	273.0	3.2
20°-30°	440.3	5.2
30°-40°	596.8	7.0
40°-50°	766.9	9.0
50°-60°	980.8	11.5
60°-70°	1198.0	14.0
70°-80°	1223.1	14.3
80°-90°	959.2	11.2
90°-100°	669.4	7.8
100°-110°	499.0	5.8
110°-120°	373.5	4.4
120°-130°	253.3	3.0
130°-140°	139.8	1.6
140°-150°	59.7	0.7
150°-160°	17.6	0.2
160°-170°	1.7	0.0
170°-180°	0.0	0.0
0°-30°	806.8	9.4
0°-40°	1403.7	16.4
0°-60°	3151.3	36.9
0°-90°	6531.5	76.4
90°-120°	1541.8	18.0
90°-150°	1994.7	23.3
90°-180°	2014.0	23.6
0°-180°	8545.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	985	985	985	985	985	
5°	1035	988	927	995	1035	100
15°	1130	937	859	941	1130	323
25°	1255	837	890	840	1255	584
35°	1417	697	951	697	1417	897
45°	1705	543	1095	539	1705	1331
55°	2154	384	1353	382	2154	1935
65°	2551	241	1584	242	2551	2514
75°	2506	119	1501	120	2506	2620
85°	1922	27	1084	30	1922	1638
90°	1595	0	871	0	1595	878
95°	1356	0	731	0	1356	1076
105°	1083	0	588	1	1083	1150
115°	898	0	509	1	898	891
125°	704	0	410	1	704	629
135°	464	0	270	1	464	365
145°	270	0	142	1	270	173
155°	119	0	63	2	119	58
165°	17	0	10	2	17	7
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CATALOG NUMBER: 4LBLEDD4-8-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (FULL):**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4
2.5°	1005.1	1004.7	1004.2	1003.8	1003.3	1002.9	1002.4	1002.0	1001.5	1001.1	1001.4
5°	1034.6	1033.5	1032.4	1031.3	1030.2	1029.2	1028.1	1027.0	1025.9	1024.8	1024.4
7.5°	1058.3	1057.0	1055.7	1054.4	1053.1	1051.7	1050.4	1049.1	1047.8	1046.5	1045.2
10°	1080.0	1078.0	1076.0	1074.1	1072.1	1070.1	1068.1	1066.2	1064.2	1062.2	1060.7
12.5°	1104.6	1102.1	1099.6	1097.0	1094.5	1092.0	1089.5	1086.9	1084.4	1081.9	1079.3
15°	1130.2	1127.4	1124.5	1121.7	1118.8	1116.0	1113.1	1110.3	1107.4	1104.6	1100.3
17.5°	1161.8	1157.9	1153.9	1150.0	1146.0	1142.1	1138.1	1134.2	1130.2	1126.3	1120.3
20°	1194.3	1189.5	1184.7	1179.8	1175.0	1170.2	1165.4	1160.5	1155.7	1150.9	1142.7
22.5°	1226.8	1221.2	1215.6	1210.0	1204.4	1198.9	1193.3	1187.7	1182.1	1176.5	1166.2
25°	1255.4	1249.7	1244.0	1238.3	1232.6	1226.9	1221.2	1215.5	1209.8	1204.1	1191.9
27.5°	1288.9	1282.5	1276.2	1269.8	1263.5	1257.1	1250.8	1244.4	1238.1	1231.7	1217.7
30°	1325.3	1318.0	1310.6	1303.3	1296.0	1288.6	1281.3	1274.0	1266.6	1259.3	1243.2
32.5°	1368.7	1360.0	1351.4	1342.7	1334.1	1325.4	1316.8	1308.1	1299.5	1290.8	1272.2
35°	1417.0	1406.9	1396.8	1386.8	1376.7	1366.6	1356.5	1346.5	1336.4	1326.3	1305.0
37.5°	1474.1	1462.5	1450.9	1439.3	1427.7	1416.1	1404.5	1392.9	1381.3	1369.7	1345.1
40°	1540.1	1526.6	1513.2	1499.7	1486.2	1472.8	1459.3	1445.8	1432.4	1418.9	1390.5
42.5°	1616.0	1600.7	1585.4	1570.0	1554.7	1539.4	1524.1	1508.7	1493.4	1478.1	1445.1
45°	1704.7	1687.0	1669.2	1651.5	1633.8	1616.0	1598.3	1580.6	1562.8	1545.1	1507.1
47.5°	1804.2	1784.1	1763.9	1743.8	1723.6	1703.5	1683.3	1663.2	1643.0	1622.9	1579.3
50°	1914.6	1892.2	1869.7	1847.3	1824.8	1802.4	1779.9	1757.5	1735.0	1712.6	1662.3
52.5°	2033.8	2008.8	1983.9	1958.9	1933.9	1909.0	1884.0	1859.0	1834.1	1809.1	1752.2
55°	2154.0	2127.5	2101.0	2074.5	2048.0	2021.6	1995.1	1968.6	1942.1	1915.6	1851.8
57.5°	2273.3	2245.5	2217.7	2189.9	2162.1	2134.2	2106.4	2078.6	2050.8	2023.0	1952.6
60°	2384.6	2356.1	2327.7	2299.2	2270.7	2242.3	2213.8	2185.3	2156.9	2128.4	2052.1
62.5°	2479.2	2451.1	2422.9	2394.8	2366.7	2338.5	2310.4	2282.3	2254.1	2226.0	2144.8
65°	2551.1	2524.5	2497.9	2471.3	2444.7	2418.1	2391.5	2364.9	2338.3	2311.7	2226.4
67.5°	2597.4	2571.5	2545.5	2519.6	2493.6	2467.7	2441.7	2415.8	2389.8	2363.9	2277.2
70°	2607.3	2582.8	2558.3	2533.7	2509.2	2484.7	2460.2	2435.6	2411.1	2386.6	2300.0
72.5°	2576.8	2553.6	2530.4	2507.2	2484.0	2460.7	2437.5	2414.3	2391.1	2367.9	2283.4
75°	2505.8	2484.0	2462.2	2440.4	2418.6	2396.9	2375.1	2353.3	2331.5	2309.7	2228.9
77.5°	2396.4	2376.0	2355.7	2335.3	2314.9	2294.6	2274.2	2253.8	2233.5	2213.1	2137.1
80°	2255.5	2236.5	2217.4	2198.4	2179.3	2160.3	2141.2	2122.2	2103.1	2084.1	2014.7
82.5°	2092.9	2074.8	2056.8	2038.7	2020.6	2002.6	1984.5	1966.4	1948.4	1930.3	1867.4
85°	1921.5	1904.4	1887.3	1870.3	1853.2	1836.1	1819.0	1802.0	1784.9	1767.8	1711.2
87.5°	1751.0	1734.7	1718.4	1702.1	1685.8	1669.4	1653.1	1636.8	1620.5	1604.2	1553.6
90°	1595.3	1580.0	1564.7	1549.3	1534.0	1518.7	1503.4	1488.0	1472.7	1457.4	1411.5
92.5°	1465.3	1450.8	1436.4	1421.9	1407.5	1393.0	1378.6	1364.1	1349.7	1335.2	1293.3
95°	1355.9	1342.1	1328.3	1314.5	1300.7	1286.9	1273.1	1259.3	1245.5	1231.7	1192.7
97.5°	1266.2	1252.7	1239.3	1225.8	1212.3	1198.9	1185.4	1171.9	1158.5	1145.0	1108.1
100°	1193.3	1180.1	1166.8	1153.6	1140.3	1127.1	1113.8	1100.6	1087.3	1074.1	1038.3
102.5°	1133.2	1120.2	1107.1	1094.1	1081.1	1068.0	1055.0	1042.0	1028.9	1015.9	980.9
105°	1082.9	1070.2	1057.5	1044.8	1032.1	1019.4	1006.7	994.0	981.3	968.6	933.8
107.5°	1036.6	1023.9	1011.2	998.5	985.8	973.1	960.4	947.7	935.0	922.3	888.1
110°	991.3	978.6	965.9	953.2	940.5	927.8	915.1	902.4	889.7	877.0	843.6



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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°	946.0	933.3	920.6	907.9	895.2	882.5	869.8	857.1	844.4	831.7	799.4
115°	897.7	885.1	872.5	859.9	847.3	834.8	822.2	809.6	797.0	784.4	753.5
117.5°	846.4	834.5	822.5	810.6	798.7	786.7	774.8	762.9	750.9	739.0	709.6
120°	799.1	787.7	776.3	765.0	753.6	742.2	730.8	719.5	708.1	696.7	668.1
122.5°	752.8	742.0	731.1	720.3	709.5	698.6	687.8	677.0	666.1	655.3	627.0
125°	703.6	693.0	682.4	671.7	661.1	650.5	639.9	629.2	618.6	608.0	581.0
127.5°	647.4	637.2	627.0	616.9	606.7	596.5	586.3	576.2	566.0	555.8	531.2
130°	584.3	574.8	565.3	555.7	546.2	536.7	527.2	517.6	508.1	498.6	476.9
132.5°	520.3	512.2	504.1	496.0	487.9	479.8	471.7	463.6	455.5	447.4	428.0
135°	464.1	457.3	450.5	443.7	436.9	430.2	423.4	416.6	409.8	403.0	385.2
137.5°	413.9	407.7	401.4	395.2	388.9	382.7	376.4	370.2	363.9	357.7	341.3
140°	363.6	358.0	352.4	346.8	341.2	335.7	330.1	324.5	318.9	313.3	298.6
142.5°	315.3	310.5	305.7	300.9	296.1	291.2	286.4	281.6	276.8	272.0	259.0
145°	270.0	265.6	261.2	256.9	252.5	248.1	243.7	239.4	235.0	230.6	219.4
147.5°	226.6	223.1	219.6	216.1	212.6	209.1	205.6	202.1	198.6	195.1	185.4
150°	188.2	185.1	182.1	179.0	175.9	172.9	169.8	166.7	163.7	160.6	152.2
152.5°	152.7	150.1	147.5	144.8	142.2	139.6	137.0	134.3	131.7	129.1	121.9
155°	119.2	117.0	114.8	112.6	110.4	108.3	106.1	103.9	101.7	99.5	93.3
157.5°	88.7	86.9	85.2	83.4	81.7	79.9	78.2	76.4	74.7	72.9	67.8
160°	60.1	58.7	57.3	55.8	54.4	53.0	51.6	50.1	48.7	47.3	43.7
162.5°	34.5	33.5	32.5	31.5	30.5	29.6	28.6	27.6	26.6	25.6	23.5
165°	16.8	16.2	15.7	15.1	14.6	14.0	13.5	12.9	12.4	11.8	10.7
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



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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°	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4
2.5°	1001.8	1002.1	1002.4	1002.8	1003.1	1003.4	1003.8	1004.1	1002.1	1000.2	998.2
5°	1023.9	1023.5	1023.0	1022.6	1022.1	1021.7	1021.2	1020.8	1017.7	1014.7	1011.6
7.5°	1043.9	1042.5	1041.2	1039.9	1038.6	1037.2	1035.9	1034.6	1030.4	1026.3	1022.1
10°	1059.1	1057.6	1056.1	1054.5	1053.0	1051.5	1049.9	1048.4	1042.7	1037.0	1031.3
12.5°	1076.7	1074.0	1071.4	1068.8	1066.2	1063.5	1060.9	1058.3	1051.2	1044.1	1036.9
15°	1096.1	1091.8	1087.5	1083.3	1079.0	1074.7	1070.5	1066.2	1057.7	1049.1	1040.6
17.5°	1114.3	1108.2	1102.2	1096.2	1090.2	1084.1	1078.1	1072.1	1061.9	1051.7	1041.5
20°	1134.5	1126.3	1118.1	1109.8	1101.6	1093.4	1085.2	1077.0	1065.1	1053.1	1041.2
22.5°	1155.9	1145.6	1135.3	1125.1	1114.8	1104.5	1094.2	1083.9	1069.7	1055.4	1041.2
25°	1179.8	1167.6	1155.5	1143.3	1131.2	1119.0	1106.9	1094.7	1077.6	1060.5	1043.5
27.5°	1203.7	1189.7	1175.7	1161.6	1147.6	1133.6	1119.6	1105.6	1085.3	1065.1	1044.8
30°	1227.1	1211.0	1194.9	1178.9	1162.8	1146.7	1130.6	1114.5	1091.0	1067.4	1043.9
32.5°	1253.6	1235.0	1216.4	1197.7	1179.1	1160.5	1141.9	1123.3	1096.8	1070.3	1043.8
35°	1283.6	1262.3	1240.9	1219.6	1198.2	1176.9	1155.5	1134.2	1104.2	1074.2	1044.2
37.5°	1320.4	1295.8	1271.2	1246.5	1221.9	1197.3	1172.6	1148.0	1114.5	1081.0	1047.5
40°	1362.2	1333.8	1305.5	1277.1	1248.8	1220.4	1192.1	1163.7	1126.8	1089.9	1053.0
42.5°	1412.2	1379.2	1346.3	1313.3	1280.4	1247.4	1214.5	1181.5	1140.9	1100.3	1059.6
45°	1469.1	1431.1	1393.1	1355.1	1317.1	1279.1	1241.1	1203.1	1158.3	1113.5	1068.8
47.5°	1535.7	1492.2	1448.6	1405.0	1361.4	1317.9	1274.3	1230.7	1181.1	1131.5	1081.9
50°	1612.1	1561.8	1511.6	1461.3	1411.1	1360.8	1310.6	1260.3	1205.8	1151.3	1096.7
52.5°	1695.3	1638.3	1581.4	1524.5	1467.6	1410.6	1353.7	1296.8	1236.6	1176.4	1116.1
55°	1787.9	1724.1	1660.3	1596.4	1532.6	1468.8	1404.9	1341.1	1274.6	1208.2	1141.7
57.5°	1882.2	1811.8	1741.4	1671.0	1600.6	1530.2	1459.8	1389.4	1316.4	1243.3	1170.3
60°	1975.8	1899.5	1823.2	1746.8	1670.5	1594.2	1517.9	1441.6	1361.8	1282.0	1202.2
62.5°	2063.5	1982.3	1901.0	1819.8	1738.5	1657.3	1576.0	1494.8	1408.2	1321.6	1235.0
65°	2141.1	2055.8	1970.5	1885.3	1800.0	1714.7	1629.4	1544.1	1450.8	1357.5	1264.2
67.5°	2190.5	2103.8	2017.1	1930.3	1843.6	1756.9	1670.2	1583.5	1484.5	1385.5	1286.6
70°	2213.4	2126.8	2040.2	1953.5	1866.9	1780.3	1693.7	1607.1	1503.9	1400.6	1297.4
72.5°	2198.8	2114.3	2029.8	1945.2	1860.7	1776.2	1691.6	1607.1	1501.9	1396.7	1291.5
75°	2148.1	2067.3	1986.5	1905.7	1824.9	1744.1	1663.3	1582.5	1477.5	1372.5	1267.5
77.5°	2061.1	1985.2	1909.2	1833.2	1757.2	1681.3	1605.3	1529.3	1427.1	1325.0	1222.8
80°	1945.3	1875.8	1806.4	1737.0	1667.6	1598.1	1528.7	1459.3	1361.5	1263.8	1166.0
82.5°	1804.4	1741.5	1678.5	1615.6	1552.6	1489.7	1426.7	1363.8	1272.7	1181.6	1090.5
85°	1654.6	1598.0	1541.4	1484.7	1428.1	1371.5	1314.9	1258.3	1174.7	1091.0	1007.4
87.5°	1503.0	1452.4	1401.8	1351.3	1300.7	1250.1	1199.5	1148.9	1073.0	997.2	921.3
90°	1365.6	1319.8	1273.9	1228.0	1182.1	1136.3	1090.4	1044.5	975.9	907.2	838.6
92.5°	1251.3	1209.4	1167.5	1125.5	1083.6	1041.7	999.7	957.8	895.4	833.0	770.6
95°	1153.7	1114.8	1075.8	1036.8	997.8	958.9	919.9	880.9	823.6	766.4	709.1
97.5°	1071.2	1034.3	997.4	960.5	923.6	886.7	849.8	812.9	759.9	706.9	653.9
100°	1002.5	966.7	930.9	895.0	859.2	823.4	787.6	751.8	702.5	653.3	604.0
102.5°	945.8	910.8	875.8	840.7	805.7	770.7	735.6	700.6	654.0	607.3	560.7
105°	899.0	864.2	829.4	794.5	759.7	724.9	690.1	655.3	610.8	566.4	521.9
107.5°	854.0	819.8	785.7	751.5	717.4	683.2	649.1	614.9	572.2	529.5	486.8
110°	810.2	776.8	743.4	710.0	676.6	643.2	609.8	576.4	535.5	494.5	453.6





TEST NUMBER: P201345

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
112.5°	767.1	734.8	702.5	670.2	637.9	605.6	573.3	541.0	501.8	462.6	423.4
115°	722.6	691.8	660.9	630.0	599.1	568.3	537.4	506.5	469.2	431.8	394.5
117.5°	680.1	650.7	621.2	591.8	562.3	532.9	503.4	474.0	438.5	403.0	367.6
120°	639.5	611.0	582.4	553.8	525.2	496.7	468.1	439.5	406.2	372.9	339.6
122.5°	598.8	570.5	542.3	514.0	485.8	457.5	429.3	401.0	370.3	339.7	309.0
125°	553.9	526.9	499.8	472.8	445.7	418.7	391.6	364.6	336.5	308.3	280.2
127.5°	506.5	481.9	457.2	432.6	407.9	383.3	358.6	334.0	307.7	281.5	255.2
130°	455.2	433.6	411.9	390.2	368.5	346.9	325.2	303.5	279.2	254.9	230.6
132.5°	408.6	389.2	369.8	350.5	331.1	311.7	292.3	272.9	250.6	228.2	205.9
135°	367.3	349.5	331.6	313.8	295.9	278.1	260.2	242.4	222.1	201.9	181.6
137.5°	324.9	308.4	292.0	275.6	259.2	242.7	226.3	209.9	191.9	174.0	156.0
140°	284.0	269.3	254.6	240.0	225.3	210.6	196.0	181.3	165.1	148.9	132.7
142.5°	245.9	232.9	219.9	206.8	193.8	180.8	167.7	154.7	140.4	126.0	111.7
145°	208.3	197.1	185.9	174.8	163.6	152.4	141.3	130.1	117.5	104.9	92.3
147.5°	175.6	165.9	156.1	146.4	136.6	126.9	117.1	107.4	96.7	85.9	75.2
150°	143.7	135.3	126.9	118.4	110.0	101.6	93.1	84.7	76.1	67.4	58.8
152.5°	114.6	107.4	100.2	92.9	85.7	78.5	71.2	64.0	57.3	50.6	44.0
155°	87.0	80.8	74.6	68.3	62.1	55.9	49.6	43.4	38.7	34.0	29.3
157.5°	62.6	57.5	52.3	47.2	42.0	36.9	31.7	26.6	23.6	20.7	17.7
160°	40.1	36.5	32.9	29.2	25.6	22.0	18.4	14.8	13.2	11.5	9.9
162.5°	21.4	19.4	17.3	15.2	13.1	11.1	9.0	6.9	6.1	5.4	4.6
165°	9.6	8.5	7.4	6.4	5.3	4.2	3.1	2.0	1.8	1.6	1.3
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: P201345

CATALOG NUMBER: 4LBLELD4-8-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4
2.5°	996.2	994.3	992.3	990.3	988.4	986.4	987.1	987.7	988.4	989.0	989.7
5°	1008.6	1005.5	1002.5	999.4	996.4	993.3	992.7	992.2	991.6	991.1	990.5
7.5°	1018.0	1013.8	1009.7	1005.5	1001.4	997.2	995.4	993.7	991.9	990.2	988.4
10°	1025.6	1020.0	1014.3	1008.6	1002.9	997.2	994.0	990.8	987.7	984.5	981.3
12.5°	1029.8	1022.7	1015.6	1008.4	1001.3	994.2	989.7	985.2	980.7	976.2	971.8
15°	1032.0	1023.5	1014.9	1006.4	997.8	989.3	983.5	977.7	971.9	966.1	960.3
17.5°	1031.3	1021.2	1011.0	1000.8	990.6	980.4	973.3	966.2	959.1	952.0	944.8
20°	1029.3	1017.3	1005.4	993.5	981.5	969.6	961.1	952.5	944.0	935.4	926.9
22.5°	1027.0	1012.7	998.5	984.3	970.0	955.8	945.7	935.7	925.6	915.5	905.5
25°	1026.4	1009.3	992.2	975.2	958.1	941.0	929.4	917.8	906.2	894.6	883.0
27.5°	1024.6	1004.3	984.1	963.8	943.6	923.3	910.2	897.0	883.9	870.8	857.6
30°	1020.3	996.8	973.2	949.7	926.1	902.6	887.9	873.3	858.6	843.9	829.3
32.5°	1017.3	990.9	964.4	937.9	911.4	884.9	868.3	851.6	835.0	818.3	801.7
35°	1014.2	984.2	954.2	924.2	894.2	864.2	845.6	827.0	808.4	789.8	771.1
37.5°	1014.0	980.4	946.9	913.4	879.9	846.4	825.8	805.2	784.7	764.1	743.5
40°	1016.1	979.3	942.4	905.5	868.6	831.7	808.0	784.4	760.7	737.1	713.4
42.5°	1019.0	978.4	937.8	897.1	856.5	815.9	789.5	763.1	736.7	710.3	684.0
45°	1024.0	979.2	934.4	889.7	844.9	800.1	771.5	742.9	714.4	685.8	657.2
47.5°	1032.3	982.8	933.2	883.6	834.0	784.4	753.0	721.6	690.1	658.7	627.3
50°	1042.2	987.7	933.2	878.6	824.1	769.6	735.3	701.1	666.8	632.5	598.3
52.5°	1055.9	995.7	935.5	875.2	815.0	754.8	717.9	681.0	644.1	607.2	570.3
55°	1075.3	1008.8	942.4	875.9	809.5	743.0	703.1	663.3	623.4	583.6	543.7
57.5°	1097.3	1024.2	951.2	878.2	805.1	732.1	689.3	646.5	603.7	560.9	518.1
60°	1122.4	1042.5	962.7	882.9	803.1	723.3	677.4	631.5	585.7	539.8	493.9
62.5°	1148.4	1061.8	975.2	888.6	802.0	715.4	666.6	617.7	568.9	520.1	471.2
65°	1170.9	1077.7	984.4	891.1	797.8	704.5	653.0	601.6	550.1	498.7	447.2
67.5°	1187.6	1088.6	989.6	890.7	791.7	692.7	638.7	584.7	530.8	476.8	422.8
70°	1194.1	1090.9	987.6	884.4	781.1	677.9	622.2	566.5	510.7	455.0	399.3
72.5°	1186.3	1081.0	975.8	870.6	765.4	660.2	603.2	546.1	489.1	432.0	375.0
75°	1162.5	1057.5	952.5	847.5	742.5	637.5	579.9	522.3	464.7	407.1	349.6
77.5°	1120.7	1018.5	916.4	814.2	712.1	609.9	552.4	494.9	437.5	380.0	322.5
80°	1068.2	970.5	872.7	774.9	677.2	579.4	522.6	465.8	408.9	352.1	295.3
82.5°	999.4	908.3	817.2	726.1	635.0	543.9	488.6	433.3	378.0	322.7	267.5
85°	923.7	840.1	756.4	672.8	589.1	505.5	452.3	399.1	345.9	292.7	239.4
87.5°	845.4	769.6	693.7	617.8	542.0	466.1	415.4	364.7	314.0	263.3	212.7
90°	769.9	701.3	632.6	564.0	495.3	426.7	379.3	331.9	284.5	237.1	189.6
92.5°	708.2	645.7	583.3	520.9	458.5	396.1	352.1	308.1	264.1	220.1	176.0
95°	651.9	594.6	537.4	480.1	422.9	365.6	325.0	284.4	243.7	203.1	162.5
97.5°	600.9	548.0	495.0	442.0	389.0	336.0	298.7	261.3	224.0	186.7	149.3
100°	554.7	505.5	456.2	406.9	357.7	308.4	274.1	239.9	205.6	171.3	137.1
102.5°	514.0	467.4	420.7	374.1	327.4	280.8	249.6	218.4	187.2	156.0	124.8
105°	477.5	433.0	388.6	344.1	299.7	255.2	226.8	198.5	170.1	141.8	113.4
107.5°	444.1	401.4	358.7	316.0	273.3	230.6	205.0	179.4	153.7	128.1	102.5
110°	412.6	371.7	330.7	289.8	248.8	207.9	184.8	161.7	138.6	115.5	92.4



TEST NUMBER: P201345

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
112.5°	384.2	345.0	305.8	266.6	227.4	188.2	167.3	146.4	125.5	104.6	83.6
115°	357.2	319.8	282.5	245.2	207.8	170.5	151.6	132.6	113.7	94.7	75.8
117.5°	332.1	296.6	261.1	225.7	190.2	154.7	137.5	120.3	103.1	85.9	68.8
120°	306.3	273.1	239.8	206.5	173.2	139.9	124.4	108.8	93.3	77.7	62.2
122.5°	278.4	247.7	217.1	186.4	155.8	125.1	111.2	97.3	83.4	69.5	55.6
125°	252.0	223.9	195.7	167.6	139.4	111.3	98.9	86.6	74.2	61.8	49.5
127.5°	228.9	202.7	176.4	150.1	123.9	97.6	86.8	75.9	65.1	54.2	43.4
130°	206.3	181.9	157.6	133.3	109.0	84.7	75.3	65.9	56.5	47.1	37.6
132.5°	183.6	161.2	138.9	116.6	94.2	71.9	63.9	55.9	47.9	39.9	32.0
135°	161.4	141.1	120.9	100.6	80.4	60.1	53.4	46.7	40.1	33.4	26.7
137.5°	138.1	120.1	102.2	84.2	66.3	48.3	42.9	37.6	32.2	26.8	21.5
140°	116.5	100.3	84.1	67.9	51.7	35.5	31.6	27.6	23.7	19.7	15.8
142.5°	97.3	83.0	68.6	54.3	39.9	25.6	22.8	19.9	17.1	14.2	11.4
145°	79.7	67.2	54.6	42.0	29.4	16.8	14.9	13.1	11.2	9.3	7.5
147.5°	64.5	53.7	43.0	32.3	21.5	10.8	9.6	8.4	7.2	6.0	4.8
150°	50.1	41.5	32.8	24.2	15.5	6.9	6.1	5.4	4.6	3.8	3.1
152.5°	37.3	30.6	23.9	17.3	10.6	3.9	3.5	3.0	2.6	2.2	1.7
155°	24.6	19.8	15.1	10.4	5.7	1.0	0.9	0.8	0.7	0.6	0.4
157.5°	14.8	11.8	8.9	5.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	8.2	6.6	4.9	3.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	3.8	3.1	2.3	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
165°	1.1	0.9	0.7	0.4	0.2	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: P201345

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4
2.5°	990.3	991.0	991.6	992.3	989.9	987.5	985.1	982.7	980.2	977.8	975.4
5°	990.0	989.4	988.9	988.3	984.9	981.5	978.1	974.7	971.4	968.0	964.6
7.5°	986.7	984.9	983.2	981.4	976.9	972.4	967.9	963.4	959.0	954.5	950.0
10°	978.1	975.0	971.8	968.6	963.6	958.5	953.5	948.5	943.4	938.4	933.4
12.5°	967.3	962.8	958.3	953.8	948.2	942.6	937.1	931.5	925.9	920.3	914.8
15°	954.5	948.7	942.9	937.1	930.9	924.6	918.4	912.1	905.9	899.6	893.4
17.5°	937.7	930.6	923.5	916.4	909.8	903.3	896.7	890.1	883.6	877.0	870.4
20°	918.3	909.8	901.2	892.7	885.9	879.1	872.4	865.6	858.8	852.0	845.3
22.5°	895.4	885.3	875.3	865.2	858.5	851.8	845.2	838.5	831.8	825.1	818.5
25°	871.4	859.8	848.2	836.6	829.9	823.2	816.6	809.9	803.2	796.5	789.9
27.5°	844.5	831.4	818.2	805.1	798.7	792.4	786.0	779.7	773.3	767.0	760.6
30°	814.6	799.9	785.3	770.6	764.8	759.0	753.2	747.4	741.5	735.7	729.9
32.5°	785.0	768.4	751.7	735.1	730.0	724.8	719.7	714.5	709.4	704.2	699.1
35°	752.5	733.9	715.3	696.7	692.8	688.8	684.9	680.9	677.0	673.0	669.1
37.5°	722.9	702.4	681.8	661.2	658.8	656.4	654.0	651.6	649.1	646.7	644.3
40°	689.8	666.1	642.5	618.8	618.7	618.6	618.5	618.4	618.2	618.1	618.0
42.5°	657.6	631.2	604.8	578.4	580.7	583.0	585.3	587.6	589.9	592.2	594.5
45°	628.6	600.1	571.5	542.9	547.1	551.2	555.4	559.6	563.7	567.9	572.1
47.5°	595.9	564.4	533.0	501.6	508.4	515.2	521.9	528.7	535.5	542.3	549.0
50°	564.0	529.7	495.5	461.2	470.6	480.0	489.4	498.8	508.3	517.7	527.1
52.5°	533.4	496.5	459.6	422.7	434.5	446.3	458.2	470.0	481.8	493.6	505.5
55°	503.9	464.0	424.2	384.3	398.6	413.0	427.3	441.7	456.0	470.4	484.7
57.5°	475.3	432.5	389.7	346.9	363.8	380.6	397.5	414.3	431.2	448.0	464.9
60°	448.0	402.2	356.3	310.4	329.8	349.2	368.5	387.9	407.3	426.7	446.0
62.5°	422.4	373.6	324.7	275.9	297.5	319.0	340.6	362.2	383.7	405.3	426.9
65°	395.8	344.3	292.9	241.4	265.2	288.9	312.7	336.4	360.2	383.9	407.7
67.5°	368.8	314.9	260.9	206.9	232.7	258.6	284.4	310.3	336.1	362.0	387.8
70°	343.6	287.8	232.1	176.4	203.7	230.9	258.2	285.4	312.7	339.9	367.2
72.5°	317.9	260.9	203.8	146.8	175.2	203.5	231.9	260.2	288.6	316.9	345.3
75°	292.0	234.4	176.8	119.2	148.2	177.2	206.3	235.3	264.3	293.3	322.4
77.5°	265.0	207.6	150.1	92.6	121.9	151.3	180.6	210.0	239.3	268.7	298.0
80°	238.5	181.6	124.8	68.0	97.2	126.5	155.7	184.9	214.2	243.4	272.6
82.5°	212.2	156.9	101.6	46.3	75.0	103.7	132.4	161.1	189.7	218.4	247.1
85°	186.2	133.0	79.8	26.6	54.6	82.7	110.7	138.7	166.8	194.8	222.8
87.5°	162.0	111.3	60.6	9.9	36.6	63.3	90.0	116.7	143.5	170.2	196.9
90°	142.2	94.8	47.4	0.0	25.1	50.2	75.2	100.3	125.4	150.5	175.5
92.5°	132.0	88.0	44.0	0.0	23.2	46.4	69.6	92.8	116.1	139.3	162.5
95°	121.9	81.2	40.6	0.0	21.5	42.9	64.4	85.8	107.3	128.7	150.2
97.5°	112.0	74.7	37.3	0.0	19.9	39.8	59.8	79.7	99.6	119.5	139.5
100°	102.8	68.5	34.3	0.0	18.3	36.6	54.9	73.2	91.4	109.7	128.0
102.5°	93.6	62.4	31.2	0.0	16.9	33.7	50.6	67.4	84.3	101.1	118.0
105°	85.1	56.7	28.4	0.0	15.4	30.9	46.3	61.7	77.2	92.6	108.0
107.5°	76.9	51.2	25.6	0.0	14.1	28.2	42.4	56.5	70.6	84.7	98.9
110°	69.3	46.2	23.1	0.0	12.8	25.6	38.4	51.2	64.1	76.9	89.7



TEST NUMBER: P201345

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
112.5°	62.7	41.8	20.9	0.0	11.6	23.2	34.8	46.4	58.0	69.6	81.2
115°	56.8	37.9	18.9	0.0	10.3	20.6	30.9	41.2	51.4	61.7	72.0
117.5°	51.6	34.4	17.2	0.0	9.2	18.4	27.6	36.8	46.0	55.2	64.4
120°	46.6	31.1	15.5	0.0	8.2	16.4	24.6	32.8	41.1	49.3	57.5
122.5°	41.7	27.8	13.9	0.0	7.3	14.7	22.0	29.3	36.7	44.0	51.3
125°	37.1	24.7	12.4	0.0	6.5	12.9	19.4	25.8	32.3	38.7	45.2
127.5°	32.5	21.7	10.8	0.0	5.5	11.0	16.4	21.9	27.4	32.9	38.3
130°	28.2	18.8	9.4	0.0	4.6	9.2	13.8	18.4	23.0	27.6	32.2
132.5°	24.0	16.0	8.0	0.0	3.7	7.4	11.2	14.9	18.6	22.3	26.1
135°	20.0	13.4	6.7	0.0	3.0	5.9	8.9	11.8	14.8	17.7	20.7
137.5°	16.1	10.7	5.4	0.0	2.2	4.4	6.6	8.8	10.9	13.1	15.3
140°	11.8	7.9	3.9	0.0	1.5	3.1	4.6	6.1	7.7	9.2	10.7
142.5°	8.5	5.7	2.8	0.0	0.9	1.8	2.6	3.5	4.4	5.3	6.1
145°	5.6	3.7	1.9	0.0	0.5	1.1	1.6	2.2	2.7	3.3	3.8
147.5°	3.6	2.4	1.2	0.0	0.3	0.7	1.0	1.3	1.7	2.0	2.3
150°	2.3	1.5	0.8	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8
152.5°	1.3	0.9	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.3	0.2	0.1	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: P201345

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4
2.5°	973.0	970.6	970.1	969.5	969.0	968.4	967.9	967.3	966.8	966.2	965.7
5°	961.2	957.8	956.4	955.0	953.5	952.1	950.7	949.3	947.8	946.4	945.0
7.5°	945.5	941.0	939.3	937.5	935.8	934.0	932.3	930.5	928.8	927.0	925.3
10°	928.3	923.3	921.1	918.9	916.7	914.5	912.4	910.2	908.0	905.8	903.6
12.5°	909.2	903.6	901.3	899.0	896.7	894.4	892.1	889.8	887.5	885.2	882.9
15°	887.1	880.9	878.8	876.7	874.7	872.6	870.5	868.4	866.4	864.3	862.2
17.5°	863.9	857.3	855.5	853.8	852.0	850.3	848.5	846.8	845.0	843.3	841.5
20°	838.5	831.7	830.8	829.9	829.1	828.2	827.3	826.4	825.6	824.7	823.8
22.5°	811.8	805.1	805.9	806.6	807.4	808.1	808.9	809.6	810.4	811.1	811.9
25°	783.2	776.5	779.9	783.3	786.7	790.1	793.4	796.8	800.2	803.6	807.0
27.5°	754.3	747.9	754.3	760.6	767.0	773.3	779.7	786.0	792.4	798.7	805.1
30°	724.1	718.3	727.7	737.1	746.6	756.0	765.4	774.8	784.3	793.7	803.1
32.5°	693.9	688.8	701.2	713.5	725.9	738.3	750.6	763.0	775.4	787.7	800.1
35°	665.1	661.2	676.4	691.6	706.9	722.1	737.3	752.5	767.8	783.0	798.2
37.5°	641.9	639.5	656.9	674.3	691.7	709.1	726.6	744.0	761.4	778.8	796.2
40°	617.9	617.8	637.7	657.7	677.6	697.5	717.5	737.4	757.3	777.3	797.2
42.5°	596.8	599.1	621.4	643.8	666.1	688.4	710.8	733.1	755.4	777.8	800.1
45°	576.2	580.4	605.5	630.5	655.6	680.7	705.7	730.8	755.9	780.9	806.0
47.5°	555.8	562.6	590.6	618.7	646.7	674.7	702.8	730.8	758.8	786.9	814.9
50°	536.5	545.9	577.1	608.3	639.5	670.7	701.9	733.1	764.3	795.5	826.7
52.5°	517.3	529.1	563.8	598.5	633.2	667.9	702.7	737.4	772.1	806.8	841.5
55°	499.1	513.4	551.9	590.5	629.0	667.5	706.1	744.6	783.1	821.7	860.2
57.5°	481.7	498.6	541.4	584.2	627.0	669.8	712.7	755.5	798.3	841.1	883.9
60°	465.4	484.8	531.9	579.0	626.0	673.1	720.2	767.3	814.3	861.4	908.5
62.5°	448.4	470.0	521.6	573.1	624.7	676.3	727.8	779.4	831.0	882.5	934.1
65°	431.4	455.2	510.9	566.7	622.4	678.1	733.9	789.6	845.3	901.1	956.8
67.5°	413.7	439.5	498.9	558.4	617.8	677.3	736.7	796.2	855.6	915.1	974.5
70°	394.4	421.7	483.7	545.7	607.6	669.6	731.6	793.6	855.5	917.5	979.5
72.5°	373.6	402.0	465.1	528.1	591.2	654.3	717.3	780.4	843.5	906.5	969.6
75°	351.4	380.4	443.0	505.6	568.3	630.9	693.5	756.1	818.8	881.4	944.0
77.5°	327.4	356.7	416.7	476.7	536.7	596.7	656.7	716.7	776.7	836.7	896.7
80°	301.9	331.1	387.5	443.9	500.3	556.7	613.0	669.4	725.8	782.2	838.6
82.5°	275.8	304.5	357.3	410.0	462.8	515.6	568.3	621.1	673.9	726.6	779.4
85°	250.9	278.9	326.3	373.7	421.1	468.5	515.9	563.3	610.7	658.1	705.5
87.5°	223.6	250.3	293.1	335.9	378.7	421.5	464.4	507.2	550.0	592.8	635.6
90°	200.6	225.7	264.8	303.9	342.9	382.0	421.1	460.2	499.2	538.3	577.4
92.5°	185.7	208.9	243.9	279.0	314.0	349.0	384.1	419.1	454.1	489.2	524.2
95°	171.6	193.1	225.7	258.4	291.0	323.6	356.3	388.9	421.5	454.2	486.8
97.5°	159.4	179.3	209.5	239.7	270.0	300.2	330.4	360.6	390.9	421.1	451.3
100°	146.3	164.6	193.1	221.5	250.0	278.5	306.9	335.4	363.9	392.3	420.8
102.5°	134.8	151.7	178.7	205.8	232.8	259.9	286.9	314.0	341.0	368.1	395.1
105°	123.5	138.9	164.9	190.8	216.8	242.7	268.7	294.6	320.6	346.5	372.5
107.5°	113.0	127.1	152.0	176.8	201.7	226.5	251.4	276.2	301.1	325.9	350.8
110°	102.5	115.3	139.3	163.3	187.2	211.2	235.2	259.2	283.1	307.1	331.1



TEST NUMBER: P201345

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
112.5°	92.8	104.4	127.4	150.4	173.4	196.4	219.4	242.4	265.4	288.4	311.4
115°	82.3	92.6	114.7	136.8	159.0	181.1	203.2	225.3	247.5	269.6	291.7
117.5°	73.6	82.8	103.7	124.6	145.5	166.4	187.4	208.3	229.2	250.1	271.0
120°	65.7	73.9	93.5	113.1	132.7	152.3	171.9	191.5	211.1	230.7	250.3
122.5°	58.7	66.0	84.0	101.9	119.9	137.8	155.8	173.7	191.7	209.6	227.6
125°	51.6	58.1	74.5	90.9	107.4	123.8	140.2	156.6	173.1	189.5	205.9
127.5°	43.8	49.3	64.2	79.1	94.0	108.9	123.7	138.6	153.5	168.4	183.3
130°	36.8	41.4	54.2	67.0	79.8	92.6	105.5	118.3	131.1	143.9	156.7
132.5°	29.8	33.5	44.4	55.4	66.3	77.3	88.2	99.2	110.1	121.1	132.0
135°	23.6	26.6	36.1	45.6	55.2	64.7	74.2	83.7	93.3	102.8	112.3
137.5°	17.5	19.7	28.0	36.3	44.7	53.0	61.3	69.6	78.0	86.3	94.6
140°	12.3	13.8	21.0	28.2	35.5	42.7	49.9	57.1	64.4	71.6	78.8
142.5°	7.0	7.9	14.1	20.4	26.6	32.8	39.1	45.3	51.5	57.8	64.0
145°	4.4	4.9	10.0	15.2	20.3	25.5	30.6	35.8	40.9	46.1	51.2
147.5°	2.7	3.0	7.0	11.1	15.1	19.2	23.2	27.3	31.3	35.4	39.4
150°	0.9	1.0	4.2	7.4	10.5	13.7	16.9	20.1	23.2	26.4	29.6
152.5°	0.0	0.0	2.3	4.6	6.9	9.2	11.5	13.8	16.1	18.4	20.7
155°	0.0	0.0	1.4	2.8	4.3	5.7	7.1	8.5	10.0	11.4	12.8
157.5°	0.0	0.0	0.5	1.1	1.6	2.2	2.7	3.3	3.8	4.4	4.9
160°	0.0	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9	1.0
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: P201345

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4
2.5°	964.5	963.3	962.1	960.9	959.6	958.4	957.2	956.0	954.8	953.8	952.8
5°	943.6	942.2	940.7	939.3	937.9	936.5	935.0	933.6	932.2	931.6	931.1
7.5°	923.8	922.2	920.7	919.2	917.6	916.1	914.6	913.0	911.5	910.9	910.4
10°	902.3	901.0	899.7	898.4	897.0	895.7	894.4	893.1	891.8	891.1	890.5
12.5°	881.8	880.7	879.6	878.5	877.4	876.3	875.2	874.1	873.0	872.6	872.1
15°	861.7	861.1	860.6	860.0	859.5	858.9	858.4	857.8	857.3	857.5	857.7
17.5°	842.4	843.3	844.1	845.0	845.9	846.8	847.6	848.5	849.4	850.5	851.6
20°	827.0	830.1	833.3	836.5	839.6	842.8	846.0	849.1	852.3	854.1	855.8
22.5°	817.2	822.4	827.7	832.9	838.2	843.4	848.7	853.9	859.2	861.4	863.6
25°	813.7	820.4	827.0	833.7	840.4	847.1	853.7	860.4	867.1	869.6	872.1
27.5°	812.8	820.4	828.1	835.7	843.4	851.0	858.7	866.3	874.0	877.0	879.9
30°	811.9	820.6	829.4	838.1	846.9	855.6	864.4	873.1	881.9	885.4	888.9
32.5°	810.3	820.5	830.7	840.9	851.0	861.2	871.4	881.6	891.8	896.1	900.3
35°	810.0	821.8	833.7	845.5	857.3	869.1	881.0	892.8	904.6	909.7	914.9
37.5°	810.1	824.0	837.9	851.8	865.7	879.6	893.5	907.4	921.3	927.5	933.8
40°	813.4	829.6	845.8	862.0	878.2	894.4	910.6	926.8	943.0	950.4	957.9
42.5°	818.9	837.8	856.6	875.4	894.3	913.1	931.9	950.8	969.6	978.4	987.1
45°	827.9	849.8	871.7	893.6	915.5	937.4	959.3	981.2	1003.1	1013.3	1023.5
47.5°	840.1	865.3	890.4	915.6	940.8	966.0	991.1	1016.3	1041.5	1053.7	1065.8
50°	856.2	885.6	915.1	944.5	974.0	1003.4	1032.9	1062.3	1091.8	1105.4	1119.0
52.5°	875.3	909.2	943.0	976.8	1010.7	1044.5	1078.3	1112.2	1146.0	1161.0	1176.0
55°	898.0	935.8	973.5	1011.3	1049.1	1086.9	1124.6	1162.4	1200.2	1217.2	1234.1
57.5°	925.8	967.8	1009.7	1051.6	1093.6	1135.5	1177.4	1219.4	1261.3	1279.5	1297.7
60°	954.8	1001.1	1047.4	1093.7	1140.1	1186.4	1232.7	1279.0	1325.3	1343.7	1362.1
62.5°	983.7	1033.3	1082.9	1132.5	1182.1	1231.7	1281.3	1330.9	1380.5	1398.8	1417.1
65°	1008.1	1059.5	1110.8	1162.2	1213.5	1264.9	1316.2	1367.6	1418.9	1437.3	1455.7
67.5°	1026.9	1079.4	1131.8	1184.3	1236.7	1289.2	1341.6	1394.1	1446.5	1463.9	1481.3
70°	1031.9	1084.4	1136.8	1189.3	1241.7	1294.2	1346.6	1399.1	1451.5	1467.7	1483.9
72.5°	1020.6	1071.6	1122.7	1173.7	1224.7	1275.7	1326.8	1377.8	1428.8	1443.7	1458.6
75°	992.4	1040.8	1089.2	1137.6	1185.9	1234.3	1282.7	1331.1	1379.5	1393.0	1406.4
77.5°	942.0	987.3	1032.7	1078.0	1123.3	1168.6	1214.0	1259.3	1304.6	1317.7	1330.9
80°	879.8	920.9	962.1	1003.3	1044.4	1085.6	1126.8	1167.9	1209.1	1221.2	1233.4
82.5°	815.3	851.2	887.1	923.0	959.0	994.9	1030.8	1066.7	1102.6	1113.8	1124.9
85°	737.7	769.9	802.1	834.3	866.4	898.6	930.8	963.0	995.2	1005.1	1014.9
87.5°	663.7	691.9	720.0	748.1	776.3	804.4	832.5	860.7	888.8	897.9	907.0
90°	601.5	625.6	649.7	673.8	697.8	721.9	746.0	770.1	794.2	802.7	811.3
92.5°	546.4	568.6	590.9	613.1	635.3	657.5	679.8	702.0	724.2	731.8	739.3
95°	506.8	526.9	546.9	566.9	587.0	607.0	627.0	647.1	667.1	674.2	681.3
97.5°	470.2	489.2	508.1	527.1	546.0	565.0	583.9	602.9	621.8	628.5	635.2
100°	439.2	457.6	476.0	494.4	512.7	531.1	549.5	567.9	586.3	592.6	599.0
102.5°	413.0	430.8	448.7	466.5	484.4	502.2	520.1	537.9	555.8	562.1	568.5
105°	390.2	408.0	425.7	443.4	461.2	478.9	496.6	514.4	532.1	538.3	544.6
107.5°	368.6	386.5	404.3	422.2	440.0	457.9	475.7	493.6	511.4	517.5	523.7
110°	348.8	366.6	384.3	402.0	419.8	437.5	455.2	473.0	490.7	496.9	503.2





TEST NUMBER: P201345

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
112.5°	329.1	346.9	364.6	382.3	400.1	417.8	435.5	453.3	471.0	477.4	483.7
115°	309.4	327.2	344.9	362.6	380.4	398.1	415.8	433.6	451.3	457.8	464.2
117.5°	288.6	306.2	323.9	341.5	359.1	376.7	394.4	412.0	429.6	436.3	443.0
120°	267.5	284.7	301.9	319.1	336.2	353.4	370.6	387.8	405.0	411.9	418.8
122.5°	244.2	260.9	277.5	294.2	310.8	327.5	344.1	360.8	377.4	384.4	391.4
125°	221.6	237.2	252.9	268.6	284.2	299.9	315.6	331.2	346.9	353.9	360.9
127.5°	198.1	212.9	227.6	242.4	257.2	272.0	286.7	301.5	316.3	323.0	329.7
130°	171.0	185.4	199.7	214.1	228.4	242.8	257.1	271.5	285.8	291.6	297.4
132.5°	145.7	159.4	173.1	186.8	200.4	214.1	227.8	241.5	255.2	260.6	265.9
135°	124.7	137.1	149.4	161.8	174.2	186.6	198.9	211.3	223.7	228.8	234.0
137.5°	105.0	115.4	125.8	136.2	146.6	157.0	167.4	177.8	188.2	193.6	198.9
140°	87.2	95.7	104.1	112.5	121.0	129.4	137.8	146.3	154.7	159.6	164.5
142.5°	71.1	78.2	85.4	92.5	99.6	106.7	113.9	121.0	128.1	132.4	136.6
145°	57.2	63.2	69.3	75.3	81.3	87.3	93.4	99.4	105.4	109.5	113.5
147.5°	44.4	49.5	54.5	59.5	64.6	69.6	74.6	79.7	84.7	88.5	92.4
150°	33.6	37.7	41.7	45.8	49.8	53.9	57.9	62.0	66.0	69.7	73.4
152.5°	23.9	27.1	30.2	33.4	36.6	39.8	42.9	46.1	49.3	52.8	56.3
155°	15.3	17.8	20.4	22.9	25.4	27.9	30.5	33.0	35.5	38.6	41.6
157.5°	7.0	9.1	11.1	13.2	15.3	17.4	19.4	21.5	23.6	26.3	29.1
160°	2.4	3.8	5.3	6.7	8.1	9.5	11.0	12.4	13.8	16.0	18.2
162.5°	0.4	0.9	1.3	1.7	2.2	2.6	3.0	3.5	3.9	5.7	7.4
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	2.2
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: P201345

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4
2.5°	951.9	950.9	949.9	948.9	948.0	947.0	946.0	947.1	948.2	949.3	950.4
5°	930.5	930.0	929.4	928.9	928.3	927.8	927.2	927.9	928.5	929.2	929.8
7.5°	909.8	909.3	908.7	908.2	907.6	907.1	906.5	906.9	907.4	907.8	908.3
10°	889.8	889.2	888.5	887.9	887.2	886.6	885.9	886.2	886.5	886.9	887.2
12.5°	871.7	871.3	870.8	870.4	870.0	869.5	869.1	869.2	869.3	869.4	869.5
15°	857.9	858.1	858.4	858.6	858.8	859.0	859.2	859.0	858.8	858.6	858.4
17.5°	852.7	853.8	854.8	855.9	857.0	858.1	859.2	858.2	857.2	856.3	855.3
20°	857.6	859.3	861.1	862.8	864.6	866.3	868.1	866.2	864.4	862.5	860.7
22.5°	865.8	868.0	870.2	872.4	874.6	876.8	879.0	876.5	874.0	871.4	868.9
25°	874.7	877.2	879.7	882.2	884.8	887.3	889.8	887.1	884.3	881.6	878.9
27.5°	882.9	885.8	888.8	891.7	894.7	897.6	900.6	897.4	894.3	891.1	887.9
30°	892.4	895.9	899.4	902.9	906.4	909.9	913.4	909.7	906.0	902.2	898.5
32.5°	904.6	908.9	913.1	917.4	921.7	925.9	930.2	925.9	921.7	917.4	913.1
35°	920.0	925.2	930.3	935.5	940.6	945.8	950.9	945.9	940.8	935.8	930.8
37.5°	940.0	946.3	952.5	958.8	965.0	971.3	977.5	971.3	965.0	958.8	952.5
40°	965.3	972.8	980.2	987.7	995.1	1002.6	1010.0	1002.9	995.8	988.7	981.6
42.5°	995.9	1004.6	1013.4	1022.1	1030.9	1039.6	1048.4	1040.4	1032.4	1024.4	1016.4
45°	1033.6	1043.8	1054.0	1064.2	1074.3	1084.5	1094.7	1085.2	1075.7	1066.1	1056.6
47.5°	1078.0	1090.1	1102.3	1114.4	1126.6	1138.7	1150.9	1139.6	1128.3	1117.1	1105.8
50°	1132.5	1146.1	1159.7	1173.3	1186.8	1200.4	1214.0	1201.2	1188.4	1175.6	1162.8
52.5°	1191.0	1206.0	1221.0	1236.0	1251.0	1266.0	1281.0	1267.0	1253.0	1239.0	1225.0
55°	1251.1	1268.1	1285.0	1302.0	1319.0	1335.9	1352.9	1337.6	1322.3	1306.9	1291.6
57.5°	1315.8	1334.0	1352.2	1370.4	1388.5	1406.7	1424.9	1408.7	1392.5	1376.3	1360.1
60°	1380.5	1398.9	1417.3	1435.7	1454.1	1472.5	1490.9	1474.4	1457.8	1441.3	1424.8
62.5°	1435.4	1453.7	1471.9	1490.2	1508.5	1526.8	1545.1	1528.8	1512.5	1496.1	1479.8
65°	1474.1	1492.5	1510.9	1529.3	1547.7	1566.1	1584.5	1568.6	1552.7	1536.9	1521.0
67.5°	1498.7	1516.1	1533.6	1551.0	1568.4	1585.8	1603.2	1588.2	1573.2	1558.2	1543.2
70°	1500.1	1516.3	1532.5	1548.7	1564.9	1581.1	1597.3	1583.4	1569.5	1555.6	1541.7
72.5°	1473.5	1488.4	1503.2	1518.1	1533.0	1547.9	1562.8	1549.9	1537.0	1524.0	1511.1
75°	1419.9	1433.4	1446.8	1460.3	1473.8	1487.2	1500.7	1488.9	1477.1	1465.2	1453.4
77.5°	1344.0	1357.2	1370.3	1383.5	1396.6	1409.8	1422.9	1410.9	1398.8	1386.8	1374.7
80°	1245.5	1257.7	1269.8	1282.0	1294.1	1306.3	1318.4	1307.2	1296.1	1284.9	1273.7
82.5°	1136.1	1147.3	1158.4	1169.6	1180.8	1191.9	1203.1	1192.7	1182.3	1171.9	1161.5
85°	1024.8	1034.6	1044.5	1054.3	1064.2	1074.0	1083.9	1074.4	1064.9	1055.3	1045.8
87.5°	916.1	925.2	934.2	943.3	952.4	961.5	970.6	961.7	952.9	944.0	935.1
90°	819.8	828.4	836.9	845.5	854.0	862.6	871.1	863.0	854.9	846.8	838.7
92.5°	746.9	754.4	762.0	769.5	777.1	784.6	792.2	785.0	777.8	770.5	763.3
95°	688.4	695.5	702.7	709.8	716.9	724.0	731.1	724.5	718.0	711.4	704.8
97.5°	641.8	648.5	655.2	661.9	668.5	675.2	681.9	675.7	669.4	663.2	656.9
100°	605.3	611.7	618.0	624.4	630.7	637.1	643.4	637.4	631.4	625.4	619.4
102.5°	574.8	581.2	587.5	593.9	600.2	606.6	612.9	607.1	601.3	595.5	589.7
105°	550.8	557.1	563.3	569.6	575.8	582.1	588.3	582.5	576.7	570.9	565.1
107.5°	529.8	535.9	542.1	548.2	554.3	560.5	566.6	560.9	555.2	549.5	543.8
110°	509.4	515.7	521.9	528.2	534.4	540.7	546.9	541.2	535.5	529.8	524.1



TEST NUMBER: P201345

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
112.5°	490.1	496.4	502.8	509.1	515.5	521.8	528.2	522.4	516.6	510.8	505.0
115°	470.7	477.1	483.6	490.0	496.5	502.9	509.4	503.5	497.6	491.7	485.8
117.5°	449.6	456.3	463.0	469.7	476.3	483.0	489.7	483.7	477.7	471.6	465.6
120°	425.7	432.6	439.5	446.4	453.3	460.2	467.1	461.0	454.8	448.7	442.6
122.5°	398.4	405.4	412.5	419.5	426.5	433.5	440.5	434.3	428.0	421.8	415.5
125°	367.9	374.9	381.9	388.9	395.9	402.9	409.9	404.0	398.1	392.2	386.3
127.5°	336.3	343.0	349.7	356.4	363.0	369.7	376.4	370.7	365.0	359.3	353.6
130°	303.2	309.0	314.8	320.6	326.4	332.2	338.0	332.9	327.7	322.6	317.4
132.5°	271.3	276.7	282.0	287.4	292.8	298.1	303.5	299.1	294.7	290.4	286.0
135°	239.1	244.3	249.4	254.6	259.7	264.9	270.0	266.1	262.1	258.2	254.2
137.5°	204.3	209.7	215.0	220.4	225.8	231.1	236.5	232.6	228.6	224.7	220.7
140°	169.5	174.4	179.3	184.2	189.2	194.1	199.0	195.7	192.4	189.2	185.9
142.5°	140.9	145.2	149.4	153.7	158.0	162.2	166.5	164.2	161.9	159.6	157.3
145°	117.6	121.6	125.7	129.7	133.8	137.8	141.9	140.0	138.2	136.3	134.4
147.5°	96.2	100.0	103.9	107.7	111.5	115.4	119.2	117.7	116.1	114.6	113.1
150°	77.2	80.9	84.6	88.3	92.1	95.8	99.5	98.2	96.9	95.6	94.3
152.5°	59.8	63.3	66.8	70.3	73.8	77.3	80.8	79.7	78.6	77.5	76.4
155°	44.7	47.8	50.8	53.9	57.0	60.0	63.1	62.3	61.6	60.8	60.0
157.5°	31.8	34.6	37.3	40.1	42.8	45.6	48.3	47.6	47.0	46.3	45.7
160°	20.4	22.6	24.7	26.9	29.1	31.3	33.5	33.1	32.6	32.2	31.8
162.5°	9.2	10.9	12.7	14.4	16.2	17.9	19.7	19.5	19.3	19.0	18.8
165°	3.3	4.4	5.5	6.6	7.7	8.8	9.9	9.9	9.9	9.9	9.9
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	0.0	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: P201345

CATALOG NUMBER: 4LBLEDD4-8-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4
2.5°	951.4	952.5	953.6	954.7	955.8	957.3	958.9	960.4	961.9	963.5	965.0
5°	930.5	931.1	931.8	932.4	933.1	935.0	936.8	938.7	940.6	942.4	944.3
7.5°	908.7	909.2	909.6	910.1	910.5	912.8	915.1	917.4	919.7	922.0	924.3
10°	887.5	887.8	888.2	888.5	888.8	891.1	893.4	895.7	898.0	900.3	902.6
12.5°	869.7	869.8	869.9	870.0	870.1	872.5	874.9	877.3	879.7	882.2	884.6
15°	858.1	857.9	857.7	857.5	857.3	858.8	860.4	861.9	863.4	865.0	866.5
17.5°	854.3	853.3	852.4	851.4	850.4	850.5	850.6	850.7	850.8	851.0	851.1
20°	858.8	857.0	855.1	853.3	851.4	849.3	847.2	845.1	843.0	841.0	838.9
22.5°	866.4	863.9	861.3	858.8	856.3	852.2	848.2	844.1	840.1	836.0	832.0
25°	876.1	873.4	870.7	867.9	865.2	859.4	853.6	847.8	842.0	836.1	830.3
27.5°	884.8	881.6	878.4	875.3	872.1	865.3	858.5	851.7	844.9	838.2	831.4
30°	894.8	891.1	887.3	883.6	879.9	871.9	863.9	855.9	847.9	840.0	832.0
32.5°	908.9	904.6	900.3	896.1	891.8	882.2	872.5	862.9	853.3	843.6	834.0
35°	925.7	920.7	915.7	910.6	905.6	894.2	882.8	871.4	860.0	848.7	837.3
37.5°	946.3	940.0	933.8	927.5	921.3	908.3	895.3	882.2	869.2	856.2	843.2
40°	974.4	967.3	960.2	953.1	946.0	930.6	915.1	899.7	884.2	868.8	853.3
42.5°	1008.5	1000.5	992.5	984.5	976.5	958.1	939.7	921.3	902.9	884.6	866.2
45°	1047.1	1037.6	1028.0	1018.5	1009.0	987.8	966.5	945.3	924.1	902.8	881.6
47.5°	1094.5	1083.2	1072.0	1060.7	1049.4	1024.9	1000.4	975.8	951.3	926.8	902.3
50°	1149.9	1137.1	1124.3	1111.5	1098.7	1070.2	1041.8	1013.3	984.8	956.4	927.9
52.5°	1210.9	1196.9	1182.9	1168.9	1154.9	1122.2	1089.4	1056.7	1023.9	991.2	958.4
55°	1276.3	1261.0	1245.6	1230.3	1215.0	1178.0	1141.0	1104.0	1067.0	1029.9	992.9
57.5°	1343.8	1327.6	1311.4	1295.2	1279.0	1237.7	1196.4	1155.2	1113.9	1072.6	1031.3
60°	1408.2	1391.7	1375.2	1358.6	1342.1	1297.0	1251.9	1206.8	1161.7	1116.5	1071.4
62.5°	1463.5	1447.2	1430.8	1414.5	1398.2	1349.9	1301.6	1253.4	1205.1	1156.8	1108.5
65°	1505.1	1489.2	1473.4	1457.5	1441.6	1391.2	1340.9	1290.5	1240.1	1189.8	1139.4
67.5°	1528.2	1513.2	1498.2	1483.2	1468.2	1416.7	1365.3	1313.8	1262.4	1210.9	1159.5
70°	1527.7	1513.8	1499.9	1486.0	1472.1	1420.8	1369.4	1318.1	1266.7	1215.4	1164.0
72.5°	1498.2	1485.3	1472.3	1459.4	1446.5	1396.6	1346.7	1296.7	1246.8	1196.9	1147.0
75°	1441.6	1429.8	1417.9	1406.1	1394.3	1347.1	1299.9	1252.7	1205.5	1158.4	1111.2
77.5°	1362.7	1350.6	1338.6	1326.5	1314.5	1270.8	1227.1	1183.4	1139.7	1096.1	1052.4
80°	1262.6	1251.4	1240.2	1229.1	1217.9	1178.0	1138.2	1098.3	1058.5	1018.6	978.8
82.5°	1151.1	1140.7	1130.3	1119.9	1109.5	1074.0	1038.6	1003.1	967.6	932.2	896.7
85°	1036.3	1026.8	1017.2	1007.7	998.2	967.0	935.8	904.6	873.4	842.2	811.0
87.5°	926.3	917.4	908.5	899.7	890.8	863.6	836.5	809.3	782.2	755.0	727.9
90°	830.6	822.5	814.4	806.3	798.2	774.1	750.0	725.9	701.8	677.8	653.7
92.5°	756.1	748.9	741.6	734.4	727.2	705.7	684.3	662.8	641.4	619.9	598.5
95°	698.3	691.7	685.1	678.6	672.0	652.2	632.4	612.6	592.8	572.9	553.1
97.5°	650.7	644.4	638.2	631.9	625.7	607.1	588.5	569.9	551.3	532.6	514.0
100°	613.3	607.3	601.3	595.3	589.3	571.4	553.6	535.7	517.9	500.0	482.2
102.5°	583.9	578.1	572.3	566.5	560.7	543.2	525.7	508.1	490.6	473.1	455.6
105°	559.2	553.4	547.6	541.8	536.0	518.8	501.6	484.4	467.2	450.1	432.9
107.5°	538.2	532.5	526.8	521.1	515.4	498.3	481.2	464.1	447.0	430.0	412.9
110°	518.4	512.7	507.0	501.3	495.6	478.5	461.4	444.4	427.3	410.2	393.1



TEST NUMBER: P201345

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
112.5°	499.1	493.3	487.5	481.7	475.9	458.9	442.0	425.0	408.0	391.1	374.1
115°	479.8	473.9	468.0	462.1	456.2	439.2	422.3	405.3	388.3	371.4	354.4
117.5°	459.6	453.6	447.5	441.5	435.5	418.5	401.6	384.6	367.6	350.7	333.7
120°	436.4	430.3	424.2	418.0	411.9	395.3	378.6	362.0	345.3	328.7	312.0
122.5°	409.3	403.0	396.8	390.5	384.3	368.3	352.3	336.3	320.3	304.4	288.4
125°	380.3	374.4	368.5	362.6	356.7	341.2	325.6	310.1	294.5	279.0	263.4
127.5°	348.0	342.3	336.6	330.9	325.2	310.7	296.3	281.8	267.4	252.9	238.5
130°	312.3	307.1	302.0	296.8	291.7	278.6	265.4	252.3	239.1	226.0	212.8
132.5°	281.6	277.2	272.9	268.5	264.1	251.5	238.9	226.3	213.7	201.2	188.6
135°	250.3	246.3	242.4	238.4	234.5	223.2	211.9	200.7	189.4	178.1	166.8
137.5°	216.8	212.8	208.9	204.9	201.0	191.8	182.6	173.4	164.2	155.0	145.8
140°	182.6	179.3	176.1	172.8	169.5	162.1	154.6	147.2	139.7	132.3	124.8
142.5°	155.0	152.7	150.4	148.1	145.8	139.5	133.1	126.8	120.4	114.1	107.7
145°	132.6	130.7	128.8	127.0	125.1	119.6	114.2	108.7	103.2	97.8	92.3
147.5°	111.5	110.0	108.5	106.9	105.4	100.8	96.2	91.6	87.0	82.4	77.8
150°	92.9	91.6	90.3	89.0	87.7	83.8	79.8	75.9	71.9	68.0	64.0
152.5°	75.3	74.2	73.1	72.0	70.9	67.6	64.3	61.1	57.8	54.5	51.2
155°	59.3	58.5	57.7	57.0	56.2	53.5	50.7	48.0	45.2	42.5	39.7
157.5°	45.0	44.4	43.7	43.1	42.4	40.1	37.8	35.5	33.2	30.9	28.6
160°	31.3	30.9	30.5	30.0	29.6	27.8	26.1	24.3	22.6	20.8	19.1
162.5°	18.6	18.4	18.1	17.9	17.7	16.8	16.0	15.1	14.2	13.4	12.5
165°	9.9	9.9	9.9	9.9	9.9	9.6	9.2	8.9	8.6	8.2	7.9
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	0.0	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: P201345

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4
2.5°	966.5	968.1	969.6	970.0	970.5	970.9	971.3	971.8	972.2	972.6	973.1
5°	946.2	948.0	949.9	951.0	952.1	953.2	954.3	955.4	956.5	957.6	958.7
7.5°	926.6	928.9	931.2	932.6	934.0	935.5	936.9	938.3	939.7	941.2	942.6
10°	904.9	907.2	909.5	911.3	913.0	914.8	916.5	918.3	920.0	921.8	923.5
12.5°	887.0	889.4	891.8	893.1	894.4	895.7	897.0	898.4	899.7	901.0	902.3
15°	868.0	869.6	871.1	872.3	873.5	874.7	875.9	877.1	878.3	879.5	880.7
17.5°	851.2	851.3	851.4	852.1	852.7	853.4	854.0	854.7	855.3	856.0	856.6
20°	836.8	834.7	832.6	832.5	832.4	832.3	832.2	832.1	832.0	831.9	831.8
22.5°	827.9	823.9	819.8	818.2	816.5	814.9	813.3	811.6	810.0	808.4	806.7
25°	824.5	818.7	812.9	809.0	805.0	801.1	797.2	793.2	789.3	785.4	781.4
27.5°	824.6	817.8	811.0	804.0	797.0	790.0	783.0	775.9	768.9	761.9	754.9
30°	824.0	816.0	808.0	798.0	788.1	778.1	768.1	758.2	748.2	738.2	728.3
32.5°	824.4	814.7	805.1	792.4	779.7	767.0	754.3	741.5	728.8	716.1	703.4
35°	825.9	814.5	803.1	787.6	772.0	756.5	740.9	725.4	709.8	694.3	678.7
37.5°	830.1	817.1	804.1	785.8	767.5	749.2	730.9	712.7	694.4	676.1	657.8
40°	837.9	822.4	807.0	786.2	765.4	744.6	723.8	703.0	682.2	661.4	640.6
42.5°	847.8	829.4	811.0	787.9	764.8	741.7	718.6	695.4	672.3	649.2	626.1
45°	860.4	839.1	817.9	792.2	766.4	740.7	715.0	689.2	663.5	637.8	612.0
47.5°	877.7	853.2	828.7	800.0	771.3	742.6	713.9	685.3	656.6	627.9	599.2
50°	899.4	871.0	842.5	810.4	778.3	746.3	714.2	682.1	650.0	618.0	585.9
52.5°	925.7	892.9	860.2	824.5	788.8	753.1	717.4	681.8	646.1	610.4	574.7
55°	955.9	918.9	881.9	842.2	802.4	762.7	722.9	683.2	643.4	603.7	563.9
57.5°	990.1	948.8	907.5	863.5	819.5	775.5	731.5	687.4	643.4	599.4	555.4
60°	1026.3	981.2	936.1	887.6	839.1	790.6	742.1	693.6	645.1	596.6	548.1
62.5°	1060.3	1012.0	963.7	910.8	857.9	805.1	752.2	699.3	646.4	593.6	540.7
65°	1089.0	1038.7	988.3	931.2	874.0	816.9	759.7	702.6	645.4	588.3	531.1
67.5°	1108.0	1056.6	1005.1	944.3	883.6	822.8	762.0	701.3	640.5	579.7	519.0
70°	1112.7	1061.3	1010.0	946.8	883.6	820.5	757.3	694.1	630.9	567.8	504.6
72.5°	1097.0	1047.1	997.2	933.5	869.8	806.0	742.3	678.6	614.9	551.1	487.4
75°	1064.0	1016.8	969.6	906.4	843.2	780.1	716.9	653.7	590.5	527.4	464.2
77.5°	1008.7	965.0	921.3	860.5	799.8	739.0	678.2	617.5	556.7	495.9	435.2
80°	938.9	899.1	859.2	802.4	745.6	688.7	631.9	575.1	518.3	461.4	404.6
82.5°	861.2	825.8	790.3	738.4	686.5	634.6	582.7	530.8	478.9	427.0	375.1
85°	779.8	748.6	717.4	670.1	622.8	575.5	528.2	480.9	433.6	386.3	339.0
87.5°	700.7	673.6	646.4	604.4	562.3	520.3	478.2	436.2	394.1	352.1	310.0
90°	629.6	605.5	581.4	543.7	506.1	468.4	430.7	393.1	355.4	317.7	280.1
92.5°	577.0	555.6	534.1	499.6	465.1	430.6	396.1	361.7	327.2	292.7	258.2
95°	533.3	513.5	493.7	461.8	430.0	398.1	366.2	334.4	302.5	270.6	238.8
97.5°	495.4	476.8	458.2	428.6	399.1	369.5	339.9	310.4	280.8	251.2	221.7
100°	464.3	446.5	428.6	400.7	372.8	344.9	317.0	289.0	261.1	233.2	205.3
102.5°	438.0	420.5	403.0	376.4	349.8	323.2	296.6	270.0	243.4	216.8	190.2
105°	415.7	398.5	381.3	355.6	329.9	304.1	278.4	252.7	227.0	201.2	175.5
107.5°	395.8	378.7	361.6	336.6	311.7	286.7	261.8	236.8	211.9	186.9	162.0
110°	376.1	359.0	341.9	317.9	293.9	270.0	246.0	222.0	198.0	174.1	150.1



TEST NUMBER: P201345

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
112.5°	357.1	340.2	323.2	300.0	276.8	253.6	230.4	207.1	183.9	160.7	137.5
115°	337.4	320.5	303.5	281.3	259.1	236.8	214.6	192.4	170.2	147.9	125.7
117.5°	316.7	299.8	282.8	261.7	240.5	219.4	198.3	177.1	156.0	134.9	113.7
120°	295.4	278.7	262.1	242.4	222.7	203.0	183.3	163.5	143.8	124.1	104.4
122.5°	272.4	256.4	240.4	222.2	204.1	185.9	167.7	149.6	131.4	113.2	95.1
125°	247.9	232.3	216.8	200.4	184.0	167.5	151.1	134.7	118.3	101.8	85.4
127.5°	224.0	209.6	195.1	180.2	165.3	150.4	135.5	120.7	105.8	90.9	76.0
130°	199.7	186.5	173.4	160.2	146.9	133.7	120.4	107.2	93.9	80.7	67.4
132.5°	176.0	163.4	150.8	139.3	127.8	116.3	104.8	93.3	81.8	70.3	58.8
135°	155.6	144.3	133.0	122.8	112.6	102.5	92.3	82.1	71.9	61.8	51.6
137.5°	136.6	127.4	118.2	108.9	99.6	90.3	81.0	71.7	62.4	53.1	43.8
140°	117.4	109.9	102.5	94.2	85.9	77.5	69.2	60.9	52.6	44.2	35.9
142.5°	101.4	95.0	88.7	81.3	73.8	66.4	58.9	51.5	44.0	36.6	29.1
145°	86.8	81.4	75.9	69.3	62.8	56.2	49.6	43.1	36.5	29.9	23.4
147.5°	73.2	68.6	64.0	58.3	52.6	46.9	41.2	35.6	29.9	24.2	18.5
150°	60.1	56.1	52.2	47.6	43.0	38.4	33.8	29.2	24.6	20.0	15.4
152.5°	48.0	44.7	41.4	37.8	34.2	30.6	27.0	23.3	19.7	16.1	12.5
155°	37.0	34.2	31.5	28.8	26.0	23.3	20.6	17.8	15.1	12.4	9.6
157.5°	26.3	24.0	21.7	19.9	18.2	16.4	14.7	12.9	11.2	9.4	7.7
160°	17.3	15.6	13.8	12.7	11.6	10.5	9.4	8.3	7.2	6.1	5.0
162.5°	11.6	10.8	9.9	9.1	8.4	7.6	6.8	6.1	5.3	4.5	3.8
165°	7.6	7.2	6.9	6.4	5.8	5.3	4.7	4.2	3.6	3.1	2.5
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: P201345

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4
2.5°	973.5	976.5	979.4	982.4	985.4	988.3	991.3	994.3	997.2	1000.2	1000.2
5°	959.8	963.7	967.7	971.6	975.5	979.5	983.4	987.3	991.3	995.2	996.4
7.5°	944.0	948.7	953.4	958.1	962.8	967.6	972.3	977.0	981.7	986.4	989.0
10°	925.3	930.8	936.2	941.7	947.2	952.6	958.1	963.6	969.0	974.5	978.3
12.5°	903.6	909.7	915.9	922.0	928.1	934.3	940.4	946.5	952.7	958.8	963.9
15°	881.9	888.5	895.0	901.6	908.2	914.7	921.3	927.9	934.4	941.0	947.4
17.5°	857.3	864.3	871.3	878.3	885.3	892.3	899.3	906.3	913.3	920.3	928.0
20°	831.7	838.7	845.7	852.7	859.7	866.7	873.7	880.7	887.7	894.7	903.9
22.5°	805.1	812.0	818.9	825.8	832.7	839.5	846.4	853.3	860.2	867.1	877.7
25°	777.5	784.5	791.5	798.5	805.5	812.5	819.5	826.5	833.5	840.5	852.3
27.5°	747.9	754.4	760.8	767.3	773.7	780.2	786.6	793.1	799.5	806.0	819.7
30°	718.3	724.1	729.9	735.7	741.5	747.4	753.2	759.0	764.8	770.6	786.0
32.5°	690.7	695.5	700.3	705.2	710.0	714.8	719.6	724.5	729.3	734.1	751.2
35°	663.2	666.9	670.6	674.4	678.1	681.8	685.5	689.3	693.0	696.7	715.5
37.5°	639.5	641.6	643.7	645.7	647.8	649.9	652.0	654.0	656.1	658.2	679.2
40°	619.8	619.6	619.4	619.1	618.9	618.7	618.5	618.2	618.0	617.8	641.5
42.5°	603.0	600.3	597.5	594.8	592.1	589.3	586.6	583.9	581.1	578.4	604.6
45°	586.3	581.0	575.8	570.5	565.3	560.0	554.8	549.5	544.3	539.0	567.7
47.5°	570.5	562.5	554.5	546.5	538.5	530.6	522.6	514.6	506.6	498.6	529.9
50°	553.8	543.3	532.8	522.3	511.8	501.2	490.7	480.2	469.7	459.2	493.1
52.5°	539.0	525.8	512.5	499.3	486.0	472.8	459.5	446.3	433.0	419.8	456.6
55°	524.2	508.4	492.7	476.9	461.1	445.4	429.6	413.8	398.1	382.3	421.8
57.5°	511.4	493.0	474.6	456.2	437.8	419.5	401.1	382.7	364.3	345.9	388.2
60°	499.6	478.6	457.6	436.5	415.5	394.5	373.5	352.4	331.4	310.4	355.5
62.5°	487.8	464.3	440.7	417.2	393.6	370.1	346.5	323.0	299.4	275.9	323.7
65°	474.0	448.3	422.5	396.8	371.1	345.3	319.6	293.9	268.1	242.4	292.8
67.5°	458.2	430.4	402.6	374.8	347.0	319.1	291.3	263.5	235.7	207.9	260.8
70°	441.4	412.1	382.7	353.4	324.1	294.7	265.4	236.1	206.7	177.4	232.0
72.5°	423.7	393.0	362.4	331.7	301.1	270.4	239.8	209.1	178.5	147.8	203.5
75°	401.0	369.8	338.6	307.4	276.2	245.0	213.8	182.6	151.4	120.2	176.5
77.5°	374.4	343.3	312.2	281.1	250.0	219.0	187.9	156.8	125.7	94.6	150.5
80°	347.8	317.0	286.3	255.5	224.7	194.0	163.2	132.4	101.7	70.9	126.2
82.5°	323.2	292.7	262.1	231.6	201.0	170.5	139.9	109.4	78.8	48.3	102.2
85°	291.7	262.6	233.5	204.3	175.2	146.1	117.0	87.8	58.7	29.6	81.3
87.5°	268.0	239.5	211.1	182.6	154.1	125.7	97.2	68.7	40.3	11.8	61.0
90°	242.4	215.5	188.5	161.6	134.7	107.7	80.8	53.9	26.9	0.0	46.0
92.5°	223.7	198.8	174.0	149.1	124.3	99.4	74.6	49.7	24.9	0.0	42.6
95°	206.9	183.9	160.9	137.9	114.9	92.0	69.0	46.0	23.0	0.0	39.2
97.5°	192.1	170.8	149.4	128.1	106.7	85.4	64.0	42.7	21.3	0.0	35.9
100°	177.4	157.7	138.0	118.3	98.6	78.8	59.1	39.4	19.7	0.0	32.8
102.5°	163.6	145.5	127.5	109.4	91.3	73.3	55.2	37.1	19.1	1.0	30.9
105°	149.8	133.3	116.7	100.2	83.7	67.1	50.6	34.1	17.5	1.0	28.3
107.5°	137.0	121.8	106.6	91.3	76.1	60.9	45.7	30.4	15.2	0.0	24.6
110°	126.1	112.1	98.1	84.1	70.1	56.0	42.0	28.0	14.0	0.0	22.2





TEST NUMBER: P201345

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
112.5°	114.3	101.7	89.1	76.5	63.9	51.4	38.8	26.2	13.6	1.0	21.1
115°	103.5	92.1	80.7	69.3	57.9	46.6	35.2	23.8	12.4	1.0	19.3
117.5°	92.6	82.4	72.2	62.1	51.9	41.7	31.5	21.4	11.2	1.0	17.5
120°	84.7	75.4	66.1	56.8	47.5	38.2	28.9	19.6	10.3	1.0	16.0
122.5°	76.9	68.5	60.0	51.6	43.2	34.7	26.3	17.9	9.4	1.0	14.4
125°	69.0	61.4	53.9	46.3	38.8	31.2	23.7	16.1	8.6	1.0	12.7
127.5°	61.1	54.4	47.7	41.1	34.4	27.7	21.0	14.4	7.7	1.0	10.9
130°	54.2	48.3	42.4	36.5	30.6	24.6	18.7	12.8	6.9	1.0	9.1
132.5°	47.3	42.2	37.0	31.9	26.7	21.6	16.4	11.3	6.1	1.0	7.5
135°	41.4	36.9	32.4	27.9	23.4	19.0	14.5	10.0	5.5	1.0	6.0
137.5°	34.5	30.8	27.1	23.3	19.6	15.9	12.2	8.4	4.7	1.0	4.6
140°	27.6	24.6	21.7	18.7	15.8	12.8	9.9	6.9	4.0	1.0	3.5
142.5°	21.7	19.4	17.1	14.8	12.5	10.2	7.9	5.6	3.3	1.0	2.6
145°	16.8	15.0	13.3	11.5	9.8	8.0	6.3	4.5	2.8	1.0	2.1
147.5°	12.8	11.5	10.2	8.9	7.6	6.2	4.9	3.6	2.3	1.0	1.9
150°	10.8	9.7	8.6	7.5	6.4	5.4	4.3	3.2	2.1	1.0	1.5
152.5°	8.9	8.1	7.4	6.6	5.8	5.1	4.3	3.5	2.8	2.0	2.3
155°	6.9	6.4	5.8	5.3	4.7	4.2	3.6	3.1	2.5	2.0	2.2
157.5°	5.9	5.5	5.0	4.6	4.2	3.7	3.3	2.9	2.4	2.0	2.1
160°	3.9	3.7	3.5	3.3	3.1	2.8	2.6	2.4	2.2	2.0	2.0
162.5°	3.0	2.8	2.6	2.3	2.1	1.9	1.7	1.4	1.2	1.0	1.0
165°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.9
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	0.0	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: P201345

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4
2.5°	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1000.2	1001.2	1002.2	1003.1
5°	997.6	998.8	1000.0	1001.3	1002.5	1003.7	1004.9	1006.1	1008.2	1010.3	1012.3
7.5°	991.6	994.3	996.9	999.5	1002.1	1004.8	1007.4	1010.0	1013.2	1016.4	1019.5
10°	982.2	986.0	989.8	993.7	997.5	1001.3	1005.2	1009.0	1013.4	1017.8	1022.1
12.5°	969.1	974.2	979.4	984.5	989.7	994.8	1000.0	1005.1	1010.8	1016.5	1022.2
15°	953.7	960.1	966.4	972.8	979.1	985.5	991.8	998.2	1005.4	1012.6	1019.9
17.5°	935.6	943.3	951.0	958.6	966.3	974.0	981.6	989.3	998.2	1007.0	1015.9
20°	913.1	922.3	931.5	940.7	949.9	959.1	968.3	977.5	988.2	999.0	1009.7
22.5°	888.3	899.0	909.6	920.2	930.8	941.5	952.1	962.7	976.1	989.4	1002.8
25°	864.1	876.0	887.8	899.6	911.4	923.3	935.1	946.9	963.3	979.7	996.2
27.5°	833.4	847.1	860.8	874.4	888.1	901.8	915.5	929.2	948.9	968.6	988.3
30°	801.5	816.9	832.3	847.8	863.2	878.6	894.1	909.5	932.4	955.3	978.1
32.5°	768.3	785.3	802.4	819.5	836.6	853.6	870.7	887.8	914.3	940.8	967.3
35°	734.3	753.2	772.0	790.8	809.6	828.5	847.3	866.1	896.1	926.1	956.1
37.5°	700.2	721.3	742.3	763.3	784.3	805.4	826.4	847.4	880.7	914.0	947.3
40°	665.1	688.8	712.4	736.1	759.7	783.4	807.0	830.7	867.4	904.1	940.7
42.5°	630.7	656.9	683.1	709.2	735.4	761.6	787.7	813.9	854.4	894.9	935.4
45°	596.4	625.1	653.8	682.4	711.1	739.8	768.5	797.2	842.0	886.8	931.5
47.5°	561.2	592.5	623.8	655.2	686.5	717.8	749.1	780.4	829.8	879.2	928.5
50°	527.1	561.0	594.9	628.9	662.8	696.7	730.7	764.6	818.6	872.6	926.5
52.5°	493.4	530.2	567.0	603.7	640.5	677.3	714.1	750.9	810.1	869.3	928.6
55°	461.3	500.9	540.4	579.9	619.4	659.0	698.5	738.0	803.6	869.2	934.8
57.5°	430.4	472.7	514.9	557.2	599.4	641.7	683.9	726.2	798.0	869.8	941.7
60°	400.6	445.7	490.8	536.0	581.1	626.2	671.3	716.4	795.0	873.6	952.2
62.5°	371.6	419.4	467.3	515.1	563.0	610.8	658.7	706.5	792.1	877.7	963.4
65°	343.1	393.5	443.9	494.2	544.6	595.0	645.3	695.7	788.0	880.3	972.6
67.5°	313.7	366.5	419.4	472.3	525.2	578.0	630.9	683.8	781.9	880.0	978.1
70°	286.7	341.3	395.9	450.6	505.2	559.8	614.5	669.1	771.5	873.8	976.2
72.5°	259.3	315.0	370.7	426.5	482.2	537.9	593.7	649.4	753.8	858.3	962.7
75°	232.8	289.0	345.3	401.6	457.9	514.1	570.4	626.7	730.7	834.7	938.7
77.5°	206.5	262.4	318.4	374.3	430.3	486.2	542.2	598.1	698.9	799.8	900.6
80°	181.5	236.8	292.1	347.4	402.7	458.0	513.3	568.6	663.8	759.1	854.3
82.5°	156.0	209.9	263.8	317.6	371.5	425.4	479.2	533.1	622.0	710.9	799.8
85°	133.0	184.6	236.3	288.0	339.7	391.3	443.0	494.7	576.2	657.6	739.1
87.5°	110.1	159.3	208.5	257.6	306.8	356.0	405.1	454.3	528.2	602.1	676.0
90°	92.0	138.0	184.0	229.9	275.9	321.9	367.9	413.9	481.1	548.3	615.6
92.5°	85.2	127.8	170.4	212.9	255.5	298.1	340.7	383.3	444.4	505.5	566.6
95°	78.4	117.6	156.8	196.0	235.2	274.4	313.6	352.8	409.1	465.3	521.6
97.5°	71.8	107.7	143.6	179.6	215.5	251.4	287.3	323.2	375.4	427.6	479.9
100°	65.7	98.5	131.4	164.2	197.1	229.9	262.8	295.6	344.7	393.7	442.8
102.5°	60.8	90.7	120.6	150.4	180.3	210.2	240.1	270.0	316.5	363.1	409.6
105°	55.5	82.8	110.0	137.3	164.5	191.8	219.0	246.3	290.5	334.8	379.0
107.5°	49.3	73.9	98.5	123.2	147.8	172.4	197.1	221.7	264.2	306.7	349.1
110°	44.4	66.7	88.9	111.1	133.3	155.6	177.8	200.0	240.5	281.0	321.5



TEST NUMBER: P201345

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
112.5°	41.3	61.4	81.6	101.7	121.9	142.0	162.2	182.3	220.8	259.4	297.9
115°	37.6	55.8	74.1	92.4	110.7	128.9	147.2	165.5	202.3	239.1	275.9
117.5°	34.1	50.6	67.1	83.7	100.2	116.7	133.3	149.8	184.7	219.6	254.6
120°	31.0	46.0	61.0	76.0	91.0	106.0	121.0	136.0	168.5	201.0	233.5
122.5°	27.7	41.1	54.4	67.8	81.1	94.5	107.8	121.2	151.2	181.2	211.2
125°	24.4	36.1	47.8	59.6	71.3	83.0	94.7	106.4	134.2	162.0	189.8
127.5°	20.7	30.6	40.4	50.3	60.1	70.0	79.8	89.7	115.6	141.6	167.5
130°	17.2	25.3	33.4	41.5	49.6	57.7	65.8	73.9	97.3	120.8	144.2
132.5°	13.9	20.4	26.8	33.3	39.7	46.2	52.6	59.1	79.9	100.7	121.5
135°	11.1	16.1	21.1	26.2	31.2	36.2	41.3	46.3	64.3	82.2	100.2
137.5°	8.2	11.8	15.4	19.1	22.7	26.3	29.9	33.5	49.2	64.8	80.5
140°	6.0	8.5	11.0	13.6	16.1	18.6	21.1	23.6	37.2	50.8	64.3
142.5°	4.3	5.9	7.6	9.2	10.9	12.5	14.2	15.8	27.3	38.8	50.3
145°	3.2	4.3	5.4	6.4	7.5	8.6	9.7	10.8	20.1	29.4	38.7
147.5°	2.8	3.6	4.5	5.4	6.3	7.1	8.0	8.9	16.1	23.3	30.6
150°	2.1	2.6	3.2	3.7	4.3	4.8	5.4	5.9	11.4	16.9	22.3
152.5°	2.6	3.0	3.3	3.6	3.9	4.3	4.6	4.9	8.6	12.3	16.1
155°	2.4	2.6	2.8	3.1	3.3	3.5	3.7	3.9	6.1	8.3	10.5
157.5°	2.2	2.3	2.4	2.6	2.7	2.8	2.9	3.0	4.2	5.4	6.6
160°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.5	3.1	3.6
162.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.4	1.7
165°	1.8	1.7	1.6	1.4	1.3	1.2	1.1	1.0	0.9	0.8	0.7
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: P201345

CATALOG NUMBER: 4LBLELD4-8-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4
2.5°	1004.1	1005.1	1006.1	1007.0	1008.0	1009.0	1009.5	1010.1	1010.6	1011.2	1011.7
5°	1014.4	1016.5	1018.6	1020.6	1022.7	1024.8	1025.9	1027.0	1028.1	1029.2	1030.2
7.5°	1022.7	1025.9	1029.1	1032.2	1035.4	1038.6	1040.6	1042.5	1044.5	1046.5	1048.4
10°	1026.5	1030.9	1035.3	1039.6	1044.0	1048.4	1051.6	1054.8	1057.9	1061.1	1064.3
12.5°	1027.9	1033.5	1039.2	1044.9	1050.6	1056.3	1060.6	1064.8	1069.1	1073.4	1077.6
15°	1027.1	1034.3	1041.5	1048.8	1056.0	1063.2	1068.7	1074.2	1079.6	1085.1	1090.6
17.5°	1024.8	1033.6	1042.5	1051.4	1060.2	1069.1	1076.7	1084.2	1091.8	1099.3	1106.9
20°	1020.4	1031.2	1041.9	1052.6	1063.4	1074.1	1084.2	1094.2	1104.3	1114.4	1124.4
22.5°	1016.1	1029.5	1042.8	1056.2	1069.5	1082.9	1094.7	1106.5	1118.4	1130.2	1142.0
25°	1012.6	1029.0	1045.4	1061.9	1078.3	1094.7	1108.2	1121.7	1135.1	1148.6	1162.1
27.5°	1008.0	1027.8	1047.5	1067.2	1086.9	1106.6	1121.6	1136.6	1151.6	1166.6	1181.6
30°	1001.0	1023.9	1046.8	1069.6	1092.5	1115.4	1132.5	1149.6	1166.7	1183.8	1200.8
32.5°	993.8	1020.3	1046.8	1073.3	1099.8	1126.3	1145.7	1165.1	1184.4	1203.8	1223.2
35°	986.1	1016.1	1046.1	1076.1	1106.1	1136.1	1158.2	1180.3	1202.5	1224.6	1246.7
37.5°	980.6	1013.8	1047.1	1080.4	1113.7	1147.0	1172.5	1198.0	1223.5	1249.0	1274.6
40°	977.4	1014.1	1050.8	1087.4	1124.1	1160.8	1190.0	1219.3	1248.5	1277.7	1307.0
42.5°	975.9	1016.5	1057.0	1097.5	1138.0	1178.5	1212.1	1245.7	1279.3	1312.9	1346.6
45°	976.3	1021.1	1065.9	1110.6	1155.4	1200.2	1238.8	1277.5	1316.1	1354.8	1393.4
47.5°	977.9	1027.3	1076.7	1126.0	1175.4	1224.8	1269.4	1313.9	1358.5	1403.1	1447.6
50°	980.5	1034.5	1088.5	1142.4	1196.4	1250.4	1301.8	1353.1	1404.5	1455.8	1507.2
52.5°	987.8	1047.0	1106.2	1165.5	1224.7	1283.9	1342.3	1400.6	1459.0	1517.3	1575.7
55°	1000.4	1065.9	1131.5	1197.1	1262.7	1328.3	1393.2	1458.1	1523.1	1588.0	1652.9
57.5°	1013.5	1085.3	1157.1	1229.0	1300.8	1372.6	1444.2	1515.8	1587.4	1659.0	1730.7
60°	1030.8	1109.5	1188.1	1266.7	1345.3	1423.9	1501.3	1578.7	1656.1	1733.5	1810.9
62.5°	1049.0	1134.6	1220.2	1305.9	1391.5	1477.1	1559.2	1641.3	1723.4	1805.5	1887.7
65°	1064.9	1157.1	1249.4	1341.7	1434.0	1526.3	1611.6	1696.9	1782.2	1867.5	1952.7
67.5°	1076.2	1174.3	1272.4	1370.5	1468.6	1566.7	1653.3	1739.9	1826.5	1913.1	1999.8
70°	1078.6	1180.9	1283.3	1385.7	1488.0	1590.4	1676.6	1762.7	1848.9	1935.1	2021.2
72.5°	1067.2	1171.6	1276.1	1380.5	1485.0	1589.4	1673.5	1757.6	1841.7	1925.8	2009.8
75°	1042.7	1146.8	1250.8	1354.8	1458.8	1562.8	1643.2	1723.5	1803.9	1884.3	1964.6
77.5°	1001.5	1102.3	1203.2	1304.0	1404.9	1505.7	1582.4	1659.2	1735.9	1812.7	1889.4
80°	949.6	1044.8	1140.1	1235.3	1330.6	1425.8	1497.0	1568.1	1639.3	1710.5	1781.6
82.5°	888.7	977.6	1066.5	1155.4	1244.3	1333.2	1397.9	1462.6	1527.3	1592.0	1656.8
85°	820.5	902.0	983.4	1064.9	1146.3	1227.8	1286.6	1345.4	1404.2	1463.0	1521.7
87.5°	749.9	823.8	897.7	971.6	1045.5	1119.4	1172.3	1225.2	1278.0	1330.9	1383.8
90°	682.8	750.0	817.2	884.5	951.7	1018.9	1066.5	1114.1	1161.8	1209.4	1257.0
92.5°	627.7	688.7	749.8	810.9	872.0	933.1	976.7	1020.3	1063.8	1107.4	1151.0
95°	577.9	634.1	690.4	746.7	802.9	859.2	900.4	941.5	982.7	1023.9	1065.0
97.5°	532.1	584.3	636.5	688.8	741.0	793.2	831.7	870.3	908.8	947.4	985.9
100°	491.8	540.9	589.9	639.0	688.0	737.1	774.2	811.3	848.4	885.5	922.7
102.5°	456.1	502.7	549.2	595.7	642.3	688.8	724.8	760.8	796.9	832.9	868.9
105°	423.2	467.5	511.7	555.9	600.2	644.4	679.3	714.3	749.2	784.1	819.1
107.5°	391.6	434.1	476.6	519.0	561.5	604.0	638.5	673.0	707.5	742.0	776.4
110°	362.0	402.6	443.1	483.6	524.1	564.6	598.5	632.5	666.4	700.4	734.3



TEST NUMBER: P201345

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
112.5°	336.4	375.0	413.5	452.0	490.6	529.1	562.1	595.0	628.0	660.9	693.9
115°	312.7	349.4	386.2	423.0	459.8	496.6	528.0	559.4	590.9	622.3	653.7
117.5°	289.5	324.4	359.3	394.3	429.2	464.1	494.2	524.3	554.4	584.5	614.7
120°	266.0	298.6	331.1	363.6	396.1	428.6	458.1	487.5	517.0	546.4	575.9
122.5°	241.2	271.2	301.2	331.2	361.2	391.2	420.0	448.8	477.6	506.4	535.1
125°	217.6	245.5	273.3	301.1	328.9	356.7	384.0	411.2	438.5	465.8	493.0
127.5°	193.5	219.4	245.4	271.3	297.3	323.2	348.2	373.1	398.1	423.1	448.0
130°	167.6	191.1	214.5	237.9	261.4	284.8	307.7	330.6	353.4	376.3	399.2
132.5°	142.3	163.1	183.9	204.7	225.5	246.3	267.9	289.5	311.0	332.6	354.2
135°	118.1	136.1	154.0	172.0	189.9	207.9	228.8	249.7	270.6	291.5	312.5
137.5°	96.1	111.8	127.4	143.1	158.7	174.4	193.7	212.9	232.2	251.5	270.7
140°	77.9	91.5	105.1	118.6	132.2	145.8	162.2	178.6	195.1	211.5	227.9
142.5°	61.8	73.2	84.7	96.2	107.7	119.2	133.2	147.2	161.3	175.3	189.3
145°	48.0	57.4	66.7	76.0	85.3	94.6	106.2	117.8	129.4	141.0	152.6
147.5°	37.8	45.0	52.2	59.5	66.7	73.9	83.4	92.9	102.5	112.0	121.5
150°	27.8	33.3	38.8	44.2	49.7	55.2	63.3	71.4	79.5	87.6	95.7
152.5°	19.8	23.5	27.2	31.0	34.7	38.4	44.9	51.3	57.8	64.3	70.7
155°	12.7	14.8	17.0	19.2	21.4	23.6	28.6	33.7	38.7	43.8	48.8
157.5°	7.8	9.0	10.2	11.4	12.6	13.8	17.4	21.0	24.6	28.2	31.9
160°	4.2	4.7	5.3	5.8	6.4	6.9	9.0	11.1	13.1	15.2	17.3
162.5°	1.9	2.1	2.3	2.6	2.8	3.0	4.0	5.0	5.9	6.9	7.9
165°	0.6	0.4	0.3	0.2	0.1	0.0	0.3	0.7	1.0	1.3	1.7
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: P201345

CATALOG NUMBER: 4LBLEDD4-8-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4	985.4
2.5°	1012.3	1012.8	1013.4	1013.9	1012.9	1011.9	1011.0	1010.0	1009.0	1008.0	1007.1
5°	1031.3	1032.4	1033.5	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6	1034.6
7.5°	1050.4	1052.4	1054.3	1056.3	1056.5	1056.7	1057.0	1057.2	1057.4	1057.6	1057.9
10°	1067.5	1070.6	1073.8	1077.0	1077.3	1077.7	1078.0	1078.3	1078.7	1079.0	1079.3
12.5°	1081.9	1086.2	1090.4	1094.7	1095.8	1096.9	1098.0	1099.1	1100.2	1101.3	1102.4
15°	1096.1	1101.5	1107.0	1112.5	1114.5	1116.4	1118.4	1120.4	1122.3	1124.3	1126.3
17.5°	1114.4	1122.0	1129.5	1137.1	1139.8	1142.6	1145.3	1148.1	1150.8	1153.6	1156.3
20°	1134.5	1144.6	1154.6	1164.7	1168.0	1171.3	1174.6	1177.9	1181.1	1184.4	1187.7
22.5°	1153.8	1165.7	1177.5	1189.3	1193.5	1197.6	1201.8	1206.0	1210.1	1214.3	1218.5
25°	1175.6	1189.0	1202.5	1216.0	1220.4	1224.8	1229.1	1233.5	1237.9	1242.3	1246.6
27.5°	1196.6	1211.6	1226.6	1241.6	1246.9	1252.1	1257.4	1262.6	1267.9	1273.1	1278.4
30°	1217.9	1235.0	1252.1	1269.2	1275.4	1281.7	1287.9	1294.1	1300.4	1306.6	1312.8
32.5°	1242.6	1261.9	1281.3	1300.7	1308.3	1315.8	1323.4	1330.9	1338.5	1346.0	1353.6
35°	1268.8	1291.0	1313.1	1335.2	1344.3	1353.4	1362.5	1371.6	1380.6	1389.7	1398.8
37.5°	1300.1	1325.6	1351.1	1376.6	1387.4	1398.3	1409.1	1419.9	1430.8	1441.6	1452.4
40°	1336.2	1365.4	1394.7	1423.9	1436.8	1449.7	1462.6	1475.5	1488.5	1501.4	1514.3
42.5°	1380.2	1413.8	1447.4	1481.0	1496.0	1511.0	1526.0	1541.0	1556.0	1571.0	1586.0
45°	1432.1	1470.7	1509.4	1548.0	1565.4	1582.8	1600.2	1617.6	1635.1	1652.5	1669.9
47.5°	1492.2	1536.8	1581.3	1625.9	1645.7	1665.5	1685.3	1705.1	1725.0	1744.8	1764.6
50°	1558.5	1609.9	1661.2	1712.6	1735.0	1757.5	1779.9	1802.4	1824.8	1847.3	1869.7
52.5°	1634.0	1692.4	1750.7	1809.1	1834.1	1859.0	1884.0	1909.0	1933.9	1958.9	1983.9
55°	1717.8	1782.8	1847.7	1912.6	1939.4	1966.2	1993.1	2019.9	2046.7	2073.5	2100.4
57.5°	1802.3	1873.9	1945.5	2017.1	2045.6	2074.0	2102.5	2131.0	2159.4	2187.9	2216.4
60°	1888.3	1965.7	2043.1	2120.5	2149.8	2179.2	2208.5	2237.9	2267.2	2296.6	2325.9
62.5°	1969.8	2051.9	2134.0	2216.1	2245.3	2274.6	2303.8	2333.0	2362.3	2391.5	2420.7
65°	2038.0	2123.3	2208.6	2293.9	2322.5	2351.1	2379.6	2408.2	2436.8	2465.4	2493.9
67.5°	2086.4	2173.0	2259.6	2346.2	2374.1	2402.0	2429.9	2457.8	2485.8	2513.7	2541.6
70°	2107.4	2193.6	2279.7	2365.9	2392.7	2419.5	2446.4	2473.2	2500.0	2526.8	2553.7
72.5°	2093.9	2178.0	2262.1	2346.2	2371.8	2397.4	2423.1	2448.7	2474.3	2499.9	2525.6
75°	2045.0	2125.4	2205.7	2286.1	2310.5	2334.9	2359.3	2383.7	2408.2	2432.6	2457.0
77.5°	1966.2	2042.9	2119.7	2196.4	2218.6	2240.8	2263.1	2285.3	2307.5	2329.7	2352.0
80°	1852.8	1924.0	1995.1	2066.3	2087.3	2108.3	2129.4	2150.4	2171.4	2192.4	2213.5
82.5°	1721.5	1786.2	1850.9	1915.6	1935.3	1955.0	1974.7	1994.4	2014.1	2033.8	2053.5
85°	1580.5	1639.3	1698.1	1756.9	1775.2	1793.5	1811.8	1830.1	1848.3	1866.6	1884.9
87.5°	1436.7	1489.5	1542.4	1595.3	1612.6	1629.9	1647.2	1664.5	1681.8	1699.1	1716.4
90°	1304.6	1352.3	1399.9	1447.5	1463.9	1480.3	1496.8	1513.2	1529.6	1546.0	1562.5
92.5°	1194.6	1238.1	1281.7	1325.3	1340.9	1356.4	1372.0	1387.5	1403.1	1418.6	1434.2
95°	1106.2	1147.4	1188.5	1229.7	1243.7	1257.7	1271.8	1285.8	1299.8	1313.8	1327.9
97.5°	1024.5	1063.0	1101.6	1140.1	1154.1	1168.1	1182.1	1196.1	1210.2	1224.2	1238.2
100°	959.8	996.9	1034.0	1071.1	1084.7	1098.3	1111.8	1125.4	1139.0	1152.6	1166.1
102.5°	904.9	941.0	977.0	1013.0	1026.4	1039.7	1053.1	1066.4	1079.8	1093.1	1106.5
105°	854.0	888.9	923.9	958.8	972.6	986.4	1000.2	1014.0	1027.7	1041.5	1055.3
107.5°	810.9	845.4	879.9	914.4	928.0	941.6	955.1	968.7	982.3	995.9	1009.4
110°	768.3	802.2	836.2	870.1	883.6	897.0	910.5	924.0	937.4	950.9	964.4



TEST NUMBER: P201345

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
112.5°	726.8	759.8	792.7	825.7	839.1	852.4	865.8	879.2	892.5	905.9	919.3
115°	685.1	716.6	748.0	779.4	792.5	805.7	818.8	832.0	845.1	858.3	871.4
117.5°	644.8	674.9	705.0	735.1	747.5	759.8	772.2	784.6	796.9	809.3	821.7
120°	605.3	634.8	664.2	693.7	705.4	717.1	728.8	740.5	752.3	764.0	775.7
122.5°	563.9	592.7	621.5	650.3	661.7	673.1	684.5	695.9	707.2	718.6	730.0
125°	520.3	547.6	574.8	602.1	613.4	624.7	635.9	647.2	658.5	669.8	681.0
127.5°	473.0	498.0	522.9	547.9	559.0	570.0	581.1	592.1	603.2	614.2	625.3
130°	422.1	444.9	467.8	490.7	501.1	511.5	521.9	532.3	542.7	553.1	563.5
132.5°	375.8	397.3	418.9	440.5	449.4	458.2	467.1	476.0	484.8	493.7	502.6
135°	333.4	354.3	375.2	396.1	403.7	411.2	418.8	426.3	433.9	441.4	449.0
137.5°	290.0	309.3	328.5	347.8	355.1	362.5	369.8	377.2	384.5	391.9	399.2
140°	244.3	260.8	277.2	293.6	301.4	309.2	316.9	324.7	332.5	340.3	348.0
142.5°	203.3	217.4	231.4	245.4	253.2	260.9	268.7	276.5	284.2	292.0	299.8
145°	164.2	175.8	187.4	199.0	206.9	214.8	222.7	230.6	238.4	246.3	254.2
147.5°	131.0	140.6	150.1	159.6	167.0	174.5	181.9	189.4	196.8	204.3	211.7
150°	103.8	111.9	120.0	128.1	134.8	141.5	148.1	154.8	161.5	168.2	174.8
152.5°	77.2	83.7	90.1	96.6	102.8	109.1	115.3	121.5	127.8	134.0	140.2
155°	53.9	58.9	64.0	69.0	74.6	80.2	85.7	91.3	96.9	102.5	108.0
157.5°	35.5	39.1	42.7	46.3	51.0	55.7	60.4	65.1	69.9	74.6	79.3
160°	19.4	21.4	23.5	25.6	29.4	33.3	37.1	40.9	44.8	48.6	52.4
162.5°	8.9	9.8	10.8	11.8	14.3	16.8	19.4	21.9	24.4	26.9	29.5
165°	2.0	2.3	2.7	3.0	4.5	6.1	7.6	9.1	10.7	12.2	13.7
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: P201345

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
0°	985.4	985.4
2.5°	1006.1	1005.1
5°	1034.6	1034.6
7.5°	1058.1	1058.3
10°	1079.7	1080.0
12.5°	1103.5	1104.6
15°	1128.2	1130.2
17.5°	1159.1	1161.8
20°	1191.0	1194.3
22.5°	1222.6	1226.8
25°	1251.0	1255.4
27.5°	1283.6	1288.9
30°	1319.1	1325.3
32.5°	1361.1	1368.7
35°	1407.9	1417.0
37.5°	1463.3	1474.1
40°	1527.2	1540.1
42.5°	1601.0	1616.0
45°	1687.3	1704.7
47.5°	1784.4	1804.2
50°	1892.2	1914.6
52.5°	2008.8	2033.8
55°	2127.2	2154.0
57.5°	2244.8	2273.3
60°	2355.3	2384.6
62.5°	2450.0	2479.2
65°	2522.5	2551.1
67.5°	2569.5	2597.4
70°	2580.5	2607.3
72.5°	2551.2	2576.8
75°	2481.4	2505.8
77.5°	2374.2	2396.4
80°	2234.5	2255.5
82.5°	2073.2	2092.9
85°	1903.2	1921.5
87.5°	1733.7	1751.0
90°	1578.9	1595.3
92.5°	1449.7	1465.3
95°	1341.9	1355.9
97.5°	1252.2	1266.2
100°	1179.7	1193.3
102.5°	1119.8	1133.2
105°	1069.1	1082.9
107.5°	1023.0	1036.6
110°	977.8	991.3





TEST NUMBER: P201345

CATALOG NUMBER: 4LBLED-LD4-8-ASYMF-UNV-L835-CD2-U

**CANDELA DISTRIBUTION (continued):**

	357.5°	360°
112.5°	932.6	946.0
115°	884.6	897.7
117.5°	834.0	846.4
120°	787.4	799.1
122.5°	741.4	752.8
125°	692.3	703.6
127.5°	636.3	647.4
130°	573.9	584.3
132.5°	511.4	520.3
135°	456.5	464.1
137.5°	406.6	413.9
140°	355.8	363.6
142.5°	307.5	315.3
145°	262.1	270.0
147.5°	219.2	226.6
150°	181.5	188.2
152.5°	146.5	152.7
155°	113.6	119.2
157.5°	84.0	88.7
160°	56.3	60.1
162.5°	32.0	34.5
165°	15.3	16.8
167.5°	0.0	0.0
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)