

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: P201354

Luminaire Tested: **4LBLED-LD4-6-ASYMW-UNV-L835-CD2-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P201354
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28228)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4LBLED-LD4-6-ASYMW-UNV-L835-CD2-U
Description: 4 ft. Low Bay Linear, 6000 lm, Wht Asym lens, 3.5K
Light Source: (308) 3500K CCT, 80 CRI LEDS
2UT217098A8350C, 2UT217056A8350B
Ballast/Driver: OSRAM
OT50W0620CC, OT30W0400CC

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6078.2 lumens
Efficiency: N/A
Efficacy: 131.6 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

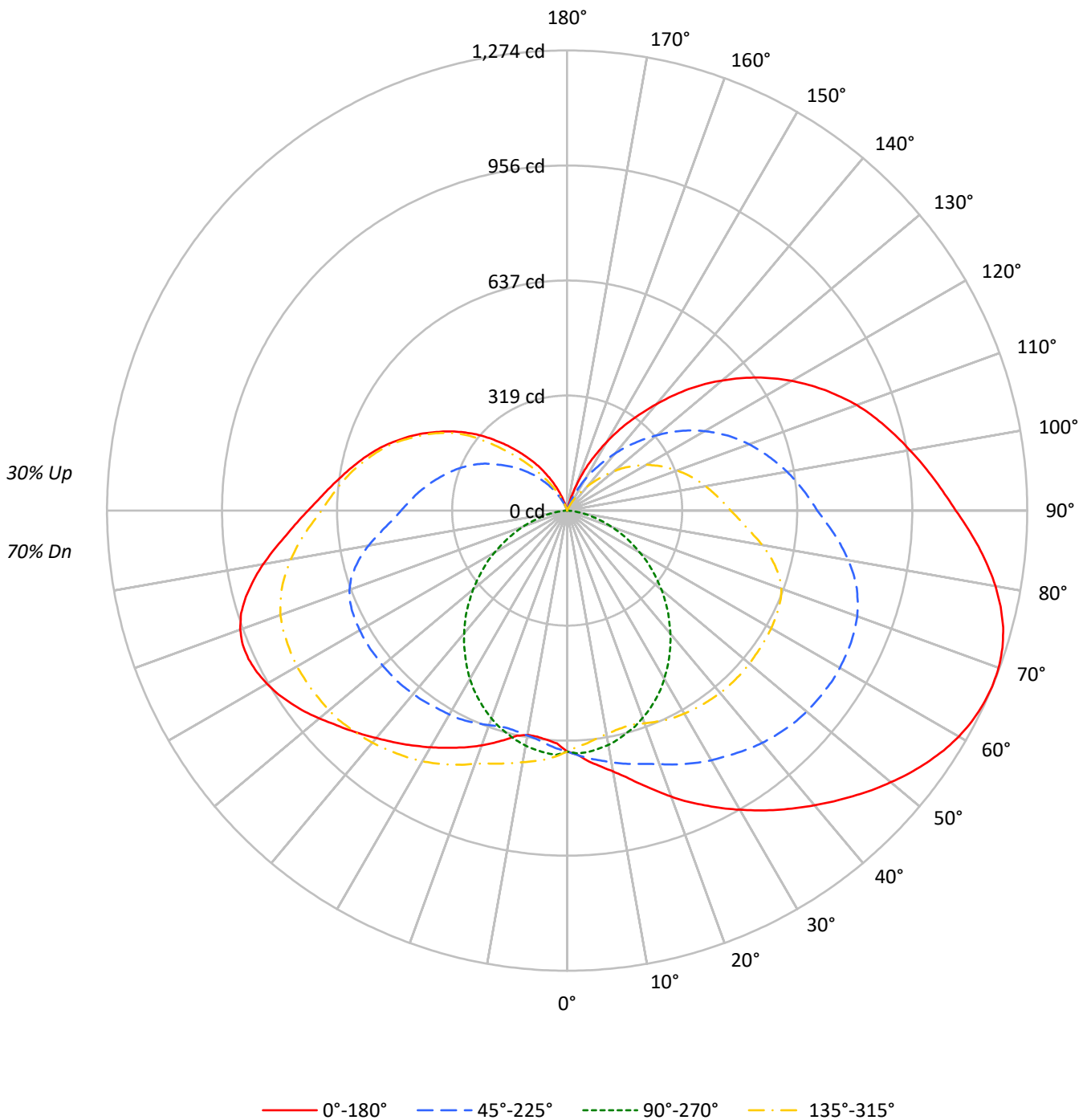
Input Watts (W): 46.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	10748	10748	10748	10748
5°	10175	10803	9296	10851
10°	9837	10686	8457	10719
15°	9801	10485	8206	10518
20°	9945	10278	8161	10310
25°	10125	10033	8146	10033
30°	10353	9709	8192	9728
35°	10631	9359	8296	9340
40°	10956	8963	8456	8943
45°	11352	8541	8704	8520
50°	11805	8047	9033	8024
55°	12298	7518	9420	7469
60°	12778	6865	9794	6835
65°	13198	6202	10109	6133
70°	13549	5376	10264	5334
75°	13778	4380	10151	4328
80°	13861	3117	9836	3189
85°	13873	1484	9472	1716



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.7	1.0
10°-20°	191.9	3.2
20°-30°	323.1	5.3
30°-40°	448.7	7.4
40°-50°	561.7	9.2
50°-60°	653.2	10.7
60°-70°	707.9	11.6
70°-80°	697.3	11.5
80°-90°	617.9	10.2
90°-100°	532.8	8.8
100°-110°	448.6	7.4
110°-120°	351.2	5.8
120°-130°	246.1	4.0
130°-140°	145.3	2.4
140°-150°	66.9	1.1
150°-160°	20.1	0.3
160°-170°	1.8	0.0
170°-180°	0.0	0.0
0°-30°	578.7	9.5
0°-40°	1027.4	16.9
0°-60°	2242.3	36.9
0°-90°	4265.4	70.2
90°-120°	1332.6	21.9
90°-150°	1790.9	29.5
90°-180°	1813.0	29.8
0°-180°	6078.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	667	667	667	667	667	
5°	698	671	637	674	698	68
15°	784	637	656	639	784	224
25°	900	578	724	578	900	418
35°	1012	493	790	492	1012	637
45°	1119	394	858	393	1119	867
55°	1216	288	932	286	1216	1090
65°	1271	181	973	179	1271	1258
75°	1250	84	921	83	1250	1317
85°	1143	13	781	15	1143	946
90°	1076	0	717	0	1076	590
95°	1019	0	665	0	1019	821
105°	910	0	577	0	910	963
115°	788	0	484	0	788	782
125°	642	0	381	1	642	576
135°	475	0	271	1	475	369
145°	300	0	167	1	300	191
155°	144	0	72	1	144	69
165°	23	0	4	1	23	9
175°	0	0	0	1	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°	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
2.5°	676.9	676.8	676.7	676.6	676.5	676.3	676.2	676.1	676.0	675.9	676.1
5°	697.6	696.8	696.1	695.3	694.5	693.8	693.0	692.2	691.5	690.7	690.5
7.5°	714.4	713.4	712.4	711.4	710.4	709.5	708.5	707.5	706.5	705.5	704.6
10°	733.2	731.8	730.3	728.9	727.5	726.0	724.6	723.2	721.7	720.3	718.9
12.5°	755.9	754.0	752.2	750.3	748.4	746.6	744.7	742.8	741.0	739.1	736.7
15°	783.6	781.2	778.8	776.3	773.9	771.5	769.1	766.6	764.2	761.8	757.9
17.5°	812.2	809.6	806.9	804.3	801.7	799.0	796.4	793.8	791.1	788.5	782.6
20°	842.9	839.5	836.1	832.7	829.3	825.8	822.4	819.0	815.6	812.2	805.0
22.5°	872.5	868.5	864.6	860.6	856.7	852.7	848.8	844.8	840.9	836.9	828.5
25°	900.2	895.9	891.6	887.3	883.0	878.8	874.5	870.2	865.9	861.6	851.8
27.5°	928.8	924.0	919.2	914.3	909.5	904.7	899.9	895.0	890.2	885.4	874.4
30°	956.5	951.2	946.0	940.7	935.4	930.2	924.9	919.6	914.4	909.1	896.8
32.5°	984.2	978.4	972.6	966.7	960.9	955.1	949.3	943.4	937.6	931.8	918.1
35°	1011.8	1005.4	999.1	992.7	986.3	980.0	973.6	967.2	960.9	954.5	939.5
37.5°	1038.5	1031.6	1024.7	1017.8	1010.9	1003.9	997.0	990.1	983.2	976.3	960.0
40°	1065.2	1057.7	1050.3	1042.8	1035.3	1027.9	1020.4	1012.9	1005.5	998.0	980.4
42.5°	1091.9	1083.9	1075.9	1067.8	1059.8	1051.8	1043.8	1035.7	1027.7	1019.7	1000.6
45°	1118.6	1109.9	1101.2	1092.6	1083.9	1075.2	1066.5	1057.9	1049.2	1040.5	1019.9
47.5°	1145.2	1135.8	1126.3	1116.9	1107.5	1098.0	1088.6	1079.2	1069.7	1060.3	1038.2
50°	1169.9	1160.0	1150.1	1140.3	1130.4	1120.5	1110.6	1100.8	1090.9	1081.0	1057.1
52.5°	1194.6	1184.0	1173.3	1162.7	1152.0	1141.4	1130.7	1120.1	1109.4	1098.8	1073.2
55°	1216.4	1205.4	1194.4	1183.5	1172.5	1161.5	1150.5	1139.6	1128.6	1117.6	1090.1
57.5°	1236.1	1224.7	1213.3	1201.9	1190.5	1179.0	1167.6	1156.2	1144.8	1133.4	1104.4
60°	1251.9	1240.2	1228.4	1216.7	1204.9	1193.2	1181.4	1169.7	1157.9	1146.2	1115.7
62.5°	1263.8	1251.7	1239.6	1227.6	1215.5	1203.4	1191.3	1179.3	1167.2	1155.1	1123.4
65°	1270.7	1258.5	1246.3	1234.1	1221.9	1209.8	1197.6	1185.4	1173.2	1161.0	1128.3
67.5°	1273.7	1261.4	1249.1	1236.8	1224.5	1212.2	1199.9	1187.6	1175.3	1163.0	1129.5
70°	1271.7	1259.4	1247.1	1234.8	1222.5	1210.2	1197.9	1185.6	1173.3	1161.0	1127.0
72.5°	1263.8	1251.4	1239.0	1226.6	1214.2	1201.7	1189.3	1176.9	1164.5	1152.1	1117.9
75°	1250.0	1237.9	1225.8	1213.8	1201.7	1189.6	1177.5	1165.5	1153.4	1141.3	1106.7
77.5°	1229.2	1217.2	1205.3	1193.3	1181.3	1169.4	1157.4	1145.4	1133.5	1121.5	1087.1
80°	1204.5	1192.4	1180.3	1168.3	1156.2	1144.1	1132.0	1120.0	1107.9	1095.8	1061.9
82.5°	1174.9	1163.1	1151.4	1139.6	1127.9	1116.1	1104.4	1092.6	1080.9	1069.1	1035.5
85°	1143.3	1131.7	1120.0	1108.4	1096.7	1085.1	1073.4	1061.8	1050.1	1038.5	1005.6
87.5°	1109.7	1098.3	1086.9	1075.4	1064.0	1052.6	1041.2	1029.7	1018.3	1006.9	974.6
90°	1076.1	1064.9	1053.7	1042.5	1031.3	1020.1	1008.9	997.7	986.5	975.3	943.9
92.5°	1046.4	1035.5	1024.7	1013.8	1002.9	992.1	981.2	970.3	959.5	948.6	918.1
95°	1018.8	1008.3	997.7	987.2	976.6	966.1	955.5	945.0	934.4	923.9	894.1
97.5°	991.1	980.8	970.5	960.1	949.8	939.5	929.2	918.8	908.5	898.2	869.2
100°	963.4	953.3	943.2	933.1	923.0	912.9	902.8	892.7	882.6	872.5	844.3
102.5°	936.7	926.8	916.9	907.1	897.2	887.3	877.4	867.6	857.7	847.8	820.0
105°	910.1	900.4	890.8	881.1	871.4	861.8	852.1	842.4	832.8	823.1	795.9
107.5°	882.4	872.8	863.3	853.7	844.2	834.6	825.1	815.5	806.0	796.4	769.8
110°	853.7	844.3	834.8	825.4	816.0	806.5	797.1	787.7	778.2	768.8	743.0



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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°	821.1	811.9	802.7	793.4	784.2	775.0	765.8	756.5	747.3	738.1	713.2
115°	788.5	779.5	770.5	761.5	752.5	743.5	734.5	725.5	716.5	707.5	683.5
117.5°	753.9	745.2	736.6	727.9	719.2	710.6	701.9	693.2	684.6	675.9	652.5
120°	718.4	709.9	701.5	693.0	684.6	676.1	667.7	659.2	650.8	642.3	619.8
122.5°	680.8	672.7	664.6	656.4	648.3	640.2	632.1	623.9	615.8	607.7	586.1
125°	642.3	634.5	626.7	618.9	611.1	603.3	595.5	587.7	579.9	572.1	551.2
127.5°	601.8	594.4	587.1	579.7	572.4	565.0	557.7	550.3	543.0	535.6	515.5
130°	560.3	553.4	546.5	539.5	532.6	525.7	518.8	511.8	504.9	498.0	478.7
132.5°	518.8	512.2	505.6	499.0	492.4	485.9	479.3	472.7	466.1	459.5	441.2
135°	475.3	469.0	462.8	456.5	450.3	444.0	437.8	431.5	425.3	419.0	401.9
137.5°	429.8	424.0	418.2	412.4	406.6	400.7	394.9	389.1	383.3	377.5	361.7
140°	384.4	379.1	373.8	368.6	363.3	358.0	352.7	347.5	342.2	336.9	322.4
142.5°	340.9	336.3	331.7	327.1	322.5	317.8	313.2	308.6	304.0	299.4	285.8
145°	300.4	296.2	292.0	287.9	283.7	279.5	275.3	271.2	267.0	262.8	250.3
147.5°	260.9	256.8	252.8	248.7	244.6	240.6	236.5	232.4	228.4	224.3	213.3
150°	219.4	216.1	212.8	209.5	206.2	202.9	199.6	196.3	193.0	189.7	179.7
152.5°	180.8	177.9	175.1	172.2	169.4	166.5	163.7	160.8	158.0	155.1	146.4
155°	144.3	141.8	139.2	136.7	134.2	131.6	129.1	126.6	124.0	121.5	114.0
157.5°	108.7	106.6	104.5	102.4	100.3	98.3	96.2	94.1	92.0	89.9	83.8
160°	75.1	73.5	71.8	70.2	68.5	66.9	65.2	63.6	61.9	60.3	55.8
162.5°	45.5	44.4	43.3	42.2	41.1	40.0	38.9	37.8	36.7	35.6	32.6
165°	22.7	22.0	21.4	20.7	20.1	19.4	18.8	18.1	17.5	16.8	15.3
167.5°	6.9	6.7	6.5	6.2	6.0	5.8	5.6	5.3	5.1	4.9	4.4
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



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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°	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
2.5°	676.3	676.5	676.7	677.0	677.2	677.4	677.6	677.8	676.7	675.6	674.5
5°	690.3	690.0	689.8	689.6	689.4	689.1	688.9	688.7	686.8	685.0	683.1
7.5°	703.7	702.9	702.0	701.1	700.2	699.4	698.5	697.6	695.0	692.3	689.7
10°	717.5	716.0	714.6	713.2	711.8	710.3	708.9	707.5	703.8	700.0	696.3
12.5°	734.3	731.9	729.5	727.0	724.6	722.2	719.8	717.4	712.5	707.5	702.6
15°	753.9	750.0	746.0	742.1	738.1	734.2	730.2	726.3	720.0	713.8	707.5
17.5°	776.7	770.7	764.8	758.9	753.0	747.0	741.1	735.2	727.5	719.8	712.1
20°	797.7	790.5	783.2	776.0	768.7	761.5	754.2	747.0	737.3	727.7	718.0
22.5°	820.0	811.6	803.1	794.7	786.2	777.8	769.3	760.9	748.9	736.9	725.0
25°	842.1	832.3	822.5	812.8	803.0	793.2	783.5	773.7	759.5	745.4	731.2
27.5°	863.4	852.4	841.4	830.5	819.5	808.5	797.5	786.5	770.0	753.6	737.1
30°	884.5	872.2	859.9	847.6	835.3	823.0	810.7	798.4	779.6	760.8	742.1
32.5°	904.4	890.6	876.9	863.2	849.5	835.7	822.0	808.3	787.7	767.0	746.4
35°	924.4	909.4	894.4	879.3	864.3	849.3	834.2	819.2	796.5	773.7	751.0
37.5°	943.8	927.5	911.3	895.0	878.8	862.5	846.3	830.0	805.4	780.8	756.2
40°	962.9	945.3	927.7	910.2	892.6	875.0	857.5	839.9	813.6	787.2	760.9
42.5°	981.5	962.4	943.3	924.2	905.1	886.0	866.9	847.8	819.7	791.6	763.5
45°	999.2	978.6	957.9	937.3	916.6	896.0	875.3	854.7	824.9	795.2	765.4
47.5°	1016.1	994.1	972.0	949.9	927.8	905.8	883.7	861.6	830.1	798.6	767.1
50°	1033.1	1009.2	985.3	961.3	937.4	913.5	889.5	865.6	832.6	799.5	766.5
52.5°	1047.6	1022.1	996.5	970.9	945.3	919.8	894.2	868.6	834.0	799.4	764.8
55°	1062.7	1035.2	1007.8	980.3	952.9	925.4	898.0	870.5	834.5	798.5	762.5
57.5°	1075.4	1046.4	1017.4	988.5	959.5	930.5	901.5	872.5	834.8	797.2	759.5
60°	1085.2	1054.6	1024.1	993.6	963.1	932.5	902.0	871.5	832.6	793.8	754.9
62.5°	1091.6	1059.9	1028.2	996.4	964.7	933.0	901.2	869.5	829.3	789.1	749.0
65°	1095.6	1062.9	1030.2	997.4	964.7	932.0	899.3	866.6	825.2	783.8	742.4
67.5°	1096.0	1062.5	1029.0	995.6	962.1	928.6	895.1	861.6	819.0	776.4	733.8
70°	1092.9	1058.9	1024.9	990.8	956.8	922.8	888.7	854.7	811.0	767.3	723.6
72.5°	1083.6	1049.4	1015.1	980.9	946.6	912.4	878.1	843.9	799.5	755.2	710.8
75°	1072.1	1037.5	1002.9	968.4	933.8	899.2	864.6	830.0	785.1	740.2	695.3
77.5°	1052.8	1018.4	984.0	949.7	915.3	880.9	846.6	812.2	767.2	722.2	677.2
80°	1028.0	994.0	960.1	926.2	892.3	858.3	824.4	790.5	745.8	701.1	656.4
82.5°	1001.9	968.3	934.7	901.2	867.6	834.0	800.4	766.8	722.6	678.3	634.1
85°	972.6	939.7	906.8	873.8	840.9	808.0	775.0	742.1	698.5	654.9	611.3
87.5°	942.3	910.1	877.8	845.5	813.2	781.0	748.7	716.4	673.7	631.0	588.3
90°	912.5	881.1	849.7	818.3	786.9	755.5	724.1	692.7	650.8	608.8	566.9
92.5°	887.6	857.0	826.5	796.0	765.5	734.9	704.4	673.9	632.8	591.8	550.7
95°	864.4	834.6	804.9	775.1	745.4	715.6	685.9	656.1	615.7	575.3	534.9
97.5°	840.2	811.2	782.2	753.3	724.3	695.3	666.3	637.3	597.7	558.0	518.4
100°	816.1	787.9	759.7	731.4	703.2	675.0	646.8	618.6	579.7	540.9	502.0
102.5°	792.2	764.5	736.7	708.9	681.1	653.4	625.6	597.8	559.6	521.4	483.2
105°	768.6	741.4	714.2	686.9	659.7	632.5	605.2	578.0	540.3	502.7	465.0
107.5°	743.3	716.7	690.1	663.6	637.0	610.4	583.9	557.3	520.4	483.5	446.6
110°	717.2	691.4	665.6	639.7	613.9	588.1	562.3	536.5	500.4	464.3	428.2



TEST NUMBER: P201354

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-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°	688.3	663.3	638.4	613.5	588.6	563.6	538.7	513.8	478.6	443.3	408.1
115°	659.4	635.4	611.3	587.3	563.2	539.2	515.1	491.1	456.7	422.4	388.0
117.5°	629.1	605.7	582.3	559.0	535.6	512.2	488.8	465.4	432.1	398.9	365.6
120°	597.3	574.8	552.3	529.7	507.2	484.7	462.2	439.7	407.4	375.1	342.9
122.5°	564.4	542.8	521.2	499.5	477.9	456.3	434.6	413.0	382.0	351.1	320.1
125°	530.4	509.5	488.7	467.8	447.0	426.1	405.3	384.4	355.1	325.8	296.5
127.5°	495.4	475.3	455.2	435.1	415.0	394.9	374.8	354.7	327.0	299.4	271.7
130°	459.4	440.0	420.7	401.4	382.1	362.7	343.4	324.1	298.3	272.5	246.7
132.5°	422.8	404.5	386.2	367.8	349.5	331.2	312.8	294.5	270.5	246.4	222.4
135°	384.7	367.6	350.5	333.3	316.2	299.1	281.9	264.8	242.6	220.4	198.3
137.5°	345.9	330.1	314.3	298.4	282.6	266.8	251.0	235.2	214.9	194.6	174.3
140°	307.9	293.4	278.9	264.5	250.0	235.5	221.0	206.5	188.2	169.8	151.5
142.5°	272.2	258.6	245.0	231.3	217.7	204.1	190.5	176.9	160.6	144.4	128.1
145°	237.8	225.3	212.8	200.2	187.7	175.2	162.7	150.2	135.9	121.6	107.4
147.5°	202.3	191.4	180.4	169.4	158.4	147.5	136.5	125.5	113.1	100.7	88.3
150°	169.7	159.7	149.7	139.8	129.8	119.8	109.8	99.8	89.6	79.4	69.2
152.5°	137.8	129.1	120.4	111.8	103.1	94.4	85.8	77.1	69.0	60.9	52.7
155°	106.6	99.1	91.6	84.2	76.7	69.2	61.8	54.3	48.5	42.7	36.9
157.5°	77.6	71.5	65.3	59.2	53.0	46.9	40.7	34.6	30.8	26.9	23.1
160°	51.3	46.8	42.3	37.8	33.3	28.8	24.3	19.8	17.6	15.4	13.2
162.5°	29.7	26.7	23.7	20.8	17.8	14.8	11.9	8.9	7.9	6.9	5.9
165°	13.7	12.2	10.7	9.1	7.6	6.1	4.5	3.0	2.7	2.3	2.0
167.5°	3.8	3.3	2.7	2.2	1.6	1.1	0.5	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: P201354

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
2.5°	673.4	672.4	671.3	670.2	669.1	668.0	668.5	669.1	669.6	670.2	670.7
5°	681.2	679.4	677.5	675.6	673.8	671.9	671.8	671.7	671.6	671.5	671.3
7.5°	687.1	684.4	681.8	679.2	676.5	673.9	672.9	671.9	670.9	669.9	669.0
10°	692.6	688.8	685.1	681.4	677.6	673.9	672.3	670.6	669.0	667.3	665.7
12.5°	697.6	692.7	687.7	682.8	677.8	672.9	670.3	667.6	665.0	662.4	659.7
15°	701.2	695.0	688.7	682.4	676.2	669.9	666.3	662.7	659.0	655.4	651.8
17.5°	704.4	696.8	689.1	681.4	673.7	666.0	661.6	657.2	652.8	648.4	644.1
20°	708.4	698.7	689.1	679.4	669.8	660.1	654.6	649.1	643.6	638.1	632.7
22.5°	713.0	701.0	689.0	677.1	665.1	653.1	646.7	640.4	634.0	627.6	621.3
25°	717.0	702.9	688.7	674.5	660.4	646.2	638.6	631.0	623.5	615.9	608.3
27.5°	720.6	704.2	687.7	671.2	654.8	638.3	629.5	620.7	612.0	603.2	594.4
30°	723.3	704.5	685.7	667.0	648.2	629.4	619.2	609.0	598.8	588.6	578.3
32.5°	725.7	705.1	684.4	663.8	643.1	622.5	610.6	598.8	586.9	575.1	563.2
35°	728.3	705.5	682.8	660.1	637.3	614.6	601.1	587.6	574.1	560.6	547.1
37.5°	731.6	707.1	682.5	657.9	633.3	608.7	593.2	577.7	562.3	546.8	531.3
40°	734.5	708.2	681.8	655.5	629.1	602.8	585.2	567.7	550.1	532.5	515.0
42.5°	735.4	707.2	679.1	651.0	622.9	594.8	575.3	555.7	536.2	516.7	497.1
45°	735.7	705.9	676.2	646.4	616.7	586.9	565.5	544.1	522.7	501.3	479.9
47.5°	735.6	704.0	672.5	641.0	609.5	578.0	554.6	531.2	507.9	484.5	461.1
50°	733.4	700.4	667.3	634.3	601.2	568.2	542.9	517.7	492.4	467.2	441.9
52.5°	730.2	695.7	661.1	626.5	591.9	557.3	530.2	503.1	475.9	448.8	421.7
55°	726.5	690.4	654.4	618.4	582.4	546.4	517.6	488.9	460.1	431.3	402.6
57.5°	721.9	684.2	646.6	608.9	571.3	533.6	503.3	473.0	442.7	412.4	382.1
60°	716.0	677.2	638.3	599.4	560.6	521.7	489.5	457.4	425.2	393.0	360.9
62.5°	708.8	668.6	628.4	588.3	548.1	507.9	474.3	440.7	407.1	373.5	339.9
65°	701.0	659.7	618.3	576.9	535.5	494.1	459.3	424.5	389.7	354.9	320.0
67.5°	691.2	648.6	606.0	563.4	520.8	478.2	442.3	406.4	370.5	334.6	298.7
70°	679.9	636.3	592.6	548.9	505.2	461.5	424.7	387.9	351.1	314.3	277.6
72.5°	666.5	622.1	577.8	533.4	489.1	444.7	407.1	369.6	332.0	294.5	256.9
75°	650.4	605.5	560.6	515.7	470.8	425.9	387.9	349.9	311.9	273.9	236.0
77.5°	632.2	587.1	542.1	497.1	452.1	407.1	368.8	330.5	292.2	253.9	215.5
80°	611.7	567.1	522.4	477.7	433.0	388.3	350.0	311.7	273.4	235.1	196.7
82.5°	589.8	545.6	501.3	457.1	412.8	368.6	330.6	292.6	254.6	216.6	178.7
85°	567.7	524.2	480.6	437.0	393.4	349.8	312.4	274.9	237.5	200.0	162.6
87.5°	545.6	502.8	460.1	417.4	374.7	332.0	295.4	258.9	222.3	185.8	149.2
90°	524.9	483.0	441.0	399.1	357.1	315.2	280.2	245.2	210.1	175.1	140.1
92.5°	509.6	468.6	427.5	386.4	345.4	304.3	270.5	236.7	202.9	169.1	135.2
95°	494.5	454.1	413.7	373.3	332.9	292.5	260.0	227.5	195.0	162.5	130.0
97.5°	478.8	439.1	399.5	359.9	320.2	280.6	249.4	218.2	187.1	155.9	124.7
100°	463.1	424.3	385.4	346.5	307.7	268.8	238.9	209.1	179.2	149.3	119.5
102.5°	445.0	406.7	368.5	330.3	292.1	253.9	225.7	197.5	169.3	141.1	112.8
105°	427.4	389.7	352.1	314.4	276.8	239.1	212.5	186.0	159.4	132.8	106.3
107.5°	409.7	372.9	336.0	299.1	262.2	225.3	200.3	175.2	150.2	125.2	100.1
110°	392.1	355.9	319.8	283.7	247.6	211.5	188.0	164.5	141.0	117.5	94.0



TEST NUMBER: P201354

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-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°	372.8	337.6	302.3	267.1	231.8	196.6	174.8	152.9	131.1	109.2	87.4
115°	353.6	319.3	284.9	250.5	216.2	181.8	161.6	141.4	121.2	101.0	80.8
117.5°	332.3	299.1	265.8	232.5	199.3	166.0	147.6	129.1	110.7	92.2	73.8
120°	310.6	278.3	246.0	213.8	181.5	149.2	132.6	116.0	99.5	82.9	66.3
122.5°	289.2	258.2	227.3	196.3	165.4	134.4	119.5	104.5	89.6	74.7	59.7
125°	267.2	237.8	208.5	179.2	149.9	120.6	107.2	93.8	80.4	67.0	53.6
127.5°	244.0	216.4	188.7	161.0	133.4	105.7	94.0	82.2	70.5	58.7	47.0
130°	220.9	195.1	169.3	143.5	117.7	91.9	81.7	71.5	61.3	51.1	40.8
132.5°	198.3	174.3	150.2	126.2	102.1	78.1	69.4	60.7	52.1	43.4	34.7
135°	176.1	153.9	131.7	109.6	87.4	65.2	58.0	50.7	43.5	36.2	29.0
137.5°	154.0	133.6	113.3	93.0	72.7	52.4	46.6	40.8	34.9	29.1	23.3
140°	133.2	114.8	96.5	78.2	59.8	41.5	36.9	32.3	27.7	23.1	18.4
142.5°	111.9	95.6	79.4	63.1	46.9	30.6	27.2	23.8	20.4	17.0	13.6
145°	93.1	78.8	64.5	50.3	36.0	21.7	19.3	16.9	14.5	12.1	9.6
147.5°	75.9	63.4	51.0	38.6	26.2	13.8	12.3	10.7	9.2	7.7	6.1
150°	59.0	48.7	38.5	28.3	18.1	7.9	7.0	6.1	5.3	4.4	3.5
152.5°	44.6	36.5	28.4	20.2	12.1	4.0	3.6	3.1	2.7	2.2	1.8
155°	31.1	25.2	19.4	13.6	7.8	2.0	1.8	1.6	1.3	1.1	0.9
157.5°	19.2	15.4	11.5	7.7	3.8	0.0	0.0	0.0	0.0	0.0	0.0
160°	11.0	8.8	6.6	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	4.9	4.0	3.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	1.7	1.3	1.0	0.7	0.3	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: P201354

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-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°	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
2.5°	671.3	671.8	672.4	672.9	671.5	670.1	668.6	667.2	665.8	664.4	662.9
5°	671.2	671.1	671.0	670.9	668.8	666.7	664.7	662.6	660.5	658.4	656.4
7.5°	668.0	667.0	666.0	665.0	662.6	660.2	657.8	655.4	652.9	650.5	648.1
10°	664.0	662.4	660.7	659.1	656.2	653.4	650.5	647.7	644.8	642.0	639.1
12.5°	657.1	654.5	651.8	649.2	646.2	643.3	640.3	637.3	634.4	631.4	628.4
15°	648.2	644.5	640.9	637.3	634.3	631.4	628.4	625.5	622.5	619.6	616.6
17.5°	639.7	635.3	630.9	626.5	623.4	620.3	617.3	614.2	611.1	608.0	605.0
20°	627.2	621.7	616.2	610.7	608.1	605.4	602.8	600.1	597.5	594.8	592.2
22.5°	614.9	608.5	602.2	595.8	593.4	591.0	588.6	586.2	583.7	581.3	578.9
25°	600.7	593.2	585.6	578.0	576.2	574.5	572.7	571.0	569.2	567.5	565.7
27.5°	585.6	576.9	568.1	559.3	558.3	557.3	556.3	555.3	554.4	553.4	552.4
30°	568.1	557.9	547.7	537.5	537.6	537.7	537.8	537.9	538.1	538.2	538.3
32.5°	551.4	539.5	527.7	515.8	517.3	518.9	520.4	521.9	523.5	525.0	526.5
35°	533.6	520.1	506.6	493.1	496.2	499.2	502.3	505.4	508.4	511.5	514.6
37.5°	515.8	500.4	484.9	469.4	474.1	478.8	483.5	488.2	493.0	497.7	502.4
40°	497.4	479.8	462.3	444.7	451.0	457.2	463.5	469.7	476.0	482.2	488.5
42.5°	477.6	458.1	438.5	419.0	426.9	434.8	442.7	450.6	458.5	466.4	474.3
45°	458.5	437.1	415.7	394.3	403.6	412.9	422.3	431.6	440.9	450.2	459.6
47.5°	437.7	414.4	391.0	367.6	378.6	389.6	400.5	411.5	422.5	433.5	444.4
50°	416.7	391.4	366.2	340.9	353.5	366.1	378.8	391.4	404.0	416.6	429.3
52.5°	394.6	367.4	340.3	313.2	327.4	341.5	355.7	369.9	384.0	398.2	412.4
55°	373.8	345.0	316.3	287.5	303.1	318.7	334.3	349.9	365.5	381.1	396.7
57.5°	351.8	321.5	291.2	260.9	277.9	294.9	311.9	328.9	346.0	363.0	380.0
60°	328.7	296.5	264.4	232.2	250.9	269.5	288.2	306.9	325.5	344.2	362.9
62.5°	306.3	272.7	239.1	205.5	225.5	245.5	265.5	285.5	305.4	325.4	345.4
65°	285.2	250.4	215.6	180.8	201.9	223.0	244.0	265.1	286.2	307.3	328.3
67.5°	262.8	226.9	191.0	155.1	177.1	199.0	221.0	243.0	264.9	286.9	308.9
70°	240.8	204.0	167.2	130.4	153.2	176.1	198.9	221.8	244.6	267.5	290.3
72.5°	219.4	181.8	144.3	106.7	130.1	153.5	176.9	200.3	223.6	247.0	270.4
75°	198.0	160.0	122.0	84.0	107.8	131.6	155.5	179.3	203.1	226.9	250.8
77.5°	177.2	138.9	100.6	62.3	86.4	110.6	134.7	158.9	183.0	207.2	231.3
80°	158.4	120.1	81.8	43.5	67.7	91.8	116.0	140.1	164.3	188.4	212.6
82.5°	140.7	102.7	64.7	26.7	50.4	74.1	97.8	121.5	145.3	169.0	192.7
85°	125.1	87.7	50.2	12.8	36.1	59.4	82.6	105.9	129.2	152.5	175.7
87.5°	112.7	76.1	39.6	3.0	25.7	48.4	71.2	93.9	116.6	139.3	162.1
90°	105.1	70.0	35.0	0.0	21.7	43.5	65.2	86.9	108.7	130.4	152.1
92.5°	101.4	67.6	33.8	0.0	20.8	41.5	62.3	83.0	103.8	124.5	145.3
95°	97.5	65.0	32.5	0.0	19.8	39.5	59.3	79.1	98.8	118.6	138.4
97.5°	93.5	62.4	31.2	0.0	18.7	37.3	56.0	74.7	93.3	112.0	130.7
100°	89.6	59.7	29.9	0.0	17.6	35.1	52.7	70.3	87.8	105.4	123.0
102.5°	84.6	56.4	28.2	0.0	16.5	32.9	49.4	65.9	82.3	98.8	115.3
105°	79.7	53.1	26.6	0.0	15.4	30.7	46.1	61.5	76.8	92.2	107.6
107.5°	75.1	50.1	25.0	0.0	14.3	28.6	42.8	57.1	71.4	85.7	99.9
110°	70.5	47.0	23.5	0.0	13.1	26.1	39.2	52.3	65.3	78.4	91.5



TEST NUMBER: P201354

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-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°	65.5	43.7	21.8	0.0	12.0	23.9	35.9	47.9	59.8	71.8	83.8
115°	60.6	40.4	20.2	0.0	10.8	21.5	32.3	43.0	53.8	64.5	75.3
117.5°	55.3	36.9	18.4	0.0	9.7	19.3	29.0	38.7	48.3	58.0	67.7
120°	49.7	33.2	16.6	0.0	8.6	17.1	25.7	34.3	42.8	51.4	60.0
122.5°	44.8	29.9	14.9	0.0	7.5	14.9	22.4	29.9	37.3	44.8	52.3
125°	40.2	26.8	13.4	0.0	6.4	12.7	19.1	25.5	31.8	38.2	44.6
127.5°	35.2	23.5	11.7	0.0	5.2	10.3	15.5	20.6	25.8	30.9	36.1
130°	30.6	20.4	10.2	0.0	4.1	8.1	12.2	16.3	20.3	24.4	28.5
132.5°	26.0	17.4	8.7	0.0	3.1	6.2	9.2	12.3	15.4	18.5	21.5
135°	21.7	14.5	7.2	0.0	2.2	4.4	6.6	8.8	11.0	13.2	15.4
137.5°	17.5	11.6	5.8	0.0	1.5	3.1	4.6	6.1	7.7	9.2	10.7
140°	13.8	9.2	4.6	0.0	0.9	1.8	2.6	3.5	4.4	5.3	6.1
142.5°	10.2	6.8	3.4	0.0	0.4	0.9	1.3	1.8	2.2	2.7	3.1
145°	7.2	4.8	2.4	0.0	0.2	0.4	0.7	0.9	1.1	1.3	1.6
147.5°	4.6	3.1	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	2.6	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	0.7	0.4	0.2	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: P201354

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
2.5°	661.5	660.1	659.4	658.8	658.1	657.4	656.8	656.1	655.4	654.8	654.1
5°	654.3	652.2	651.5	650.9	650.2	649.5	648.9	648.2	647.5	646.9	646.2
7.5°	645.7	643.3	642.4	641.5	640.7	639.8	638.9	638.0	637.2	636.3	635.4
10°	636.3	633.4	632.8	632.3	631.7	631.2	630.6	630.1	629.5	629.0	628.4
12.5°	625.5	622.5	622.5	622.5	622.5	622.5	622.5	622.5	622.5	622.5	622.5
15°	613.7	610.7	611.7	612.7	613.7	614.7	615.6	616.6	617.6	618.6	619.6
17.5°	601.9	598.8	601.2	603.6	606.0	608.4	610.9	613.3	615.7	618.1	620.5
20°	589.5	586.9	591.3	595.7	600.1	604.5	608.9	613.3	617.7	622.1	626.5
22.5°	576.5	574.1	580.7	587.3	593.9	600.5	607.0	613.6	620.2	626.8	633.4
25°	564.0	562.2	570.9	579.6	588.2	596.9	605.6	614.3	622.9	631.6	640.3
27.5°	551.4	550.4	560.9	571.5	582.0	592.5	603.1	613.6	624.1	634.7	645.2
30°	538.4	538.5	550.8	563.1	575.4	587.7	600.0	612.3	624.6	636.9	649.2
32.5°	528.1	529.6	543.2	556.8	570.5	584.1	597.7	611.3	625.0	638.6	652.2
35°	517.6	520.7	535.6	550.6	565.5	580.4	595.4	610.3	625.2	640.2	655.1
37.5°	507.1	511.8	527.9	544.1	560.2	576.4	592.5	608.7	624.8	641.0	657.1
40°	494.7	501.0	518.6	536.1	553.7	571.3	588.8	606.4	624.0	641.5	659.1
42.5°	482.2	490.1	509.0	527.9	546.8	565.7	584.5	603.4	622.3	641.2	660.1
45°	468.9	478.2	498.4	518.6	538.8	559.0	579.3	599.5	619.7	639.9	660.1
47.5°	455.4	466.4	487.9	509.4	531.0	552.5	574.0	595.5	617.1	638.6	660.1
50°	441.9	454.5	477.2	500.0	522.7	545.4	568.2	590.9	613.6	636.4	659.1
52.5°	426.5	440.7	464.7	488.8	512.8	536.9	560.9	585.0	609.0	633.1	657.1
55°	412.3	427.9	453.3	478.6	504.0	529.3	554.7	580.0	605.4	630.7	656.1
57.5°	397.0	414.0	440.7	467.4	494.0	520.7	547.4	574.1	600.7	627.4	654.1
60°	381.5	400.2	428.2	456.2	484.2	512.2	540.2	568.2	596.2	624.2	652.2
62.5°	365.4	385.4	414.7	444.0	473.3	502.6	532.0	561.3	590.6	619.9	649.2
65°	349.4	370.5	401.0	431.5	462.1	492.6	523.1	553.6	584.2	614.7	645.2
67.5°	330.8	352.8	384.7	416.7	448.6	480.6	512.5	544.5	576.4	608.4	640.3
70°	313.2	336.0	368.8	401.6	434.5	467.3	500.1	532.9	565.8	598.6	631.4
72.5°	293.8	317.2	350.5	383.7	417.0	450.3	483.5	516.8	550.1	583.3	616.6
75°	274.6	298.4	331.6	364.7	397.9	431.0	464.2	497.3	530.5	563.6	596.8
77.5°	255.5	279.6	312.3	345.0	377.8	410.5	443.2	475.9	508.7	541.4	574.1
80°	236.7	260.9	292.8	324.8	356.7	388.7	420.6	452.6	484.5	516.5	548.4
82.5°	216.4	240.1	271.3	302.5	333.6	364.8	396.0	427.2	458.3	489.5	520.7
85°	199.0	222.3	252.6	282.9	313.2	343.5	373.8	404.1	434.4	464.7	495.0
87.5°	184.8	207.5	237.0	266.6	296.1	325.6	355.2	384.7	414.2	443.8	473.3
90°	173.9	195.6	224.2	252.7	281.3	309.8	338.4	366.9	395.5	424.0	452.6
92.5°	166.0	186.8	214.5	242.1	269.8	297.5	325.1	352.8	380.5	408.1	435.8
95°	158.1	177.9	204.8	231.7	258.6	285.5	312.4	339.3	366.2	393.1	420.0
97.5°	149.3	168.0	194.2	220.5	246.7	272.9	299.2	325.4	351.6	377.9	404.1
100°	140.5	158.1	183.8	209.5	235.2	260.9	286.5	312.2	337.9	363.6	389.3
102.5°	131.7	148.2	173.2	198.3	223.3	248.3	273.4	298.4	323.4	348.5	373.5
105°	122.9	138.3	162.7	187.1	211.4	235.8	260.2	284.6	308.9	333.3	357.7
107.5°	114.2	128.5	152.1	175.7	199.3	222.9	246.5	270.1	293.7	317.3	340.9
110°	104.5	117.6	140.5	163.5	186.4	209.4	232.3	255.3	278.2	301.2	324.1



TEST NUMBER: P201354

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-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°	95.7	107.7	129.8	151.8	173.9	196.0	218.0	240.1	262.2	284.2	306.3
115°	86.0	96.8	118.2	139.6	161.0	182.4	203.9	225.3	246.7	268.1	289.5
117.5°	77.3	87.0	107.4	127.8	148.2	168.6	189.1	209.5	229.9	250.3	270.7
120°	68.5	77.1	96.7	116.4	136.0	155.7	175.3	195.0	214.6	234.3	253.9
122.5°	59.7	67.2	85.5	103.9	122.2	140.5	158.9	177.2	195.5	213.9	232.2
125°	50.9	57.3	74.5	91.8	109.0	126.2	143.5	160.7	177.9	195.2	212.4
127.5°	41.2	46.4	62.7	78.9	95.2	111.4	127.7	143.9	160.2	176.4	192.7
130°	32.5	36.6	51.3	66.0	80.7	95.4	110.2	124.9	139.6	154.3	169.0
132.5°	24.6	27.7	41.0	54.3	67.5	80.8	94.1	107.4	120.6	133.9	147.2
135°	17.6	19.8	31.5	43.3	55.0	66.8	78.5	90.3	102.0	113.8	125.5
137.5°	12.3	13.8	24.0	34.2	44.4	54.6	64.9	75.1	85.3	95.5	105.7
140°	7.0	7.9	16.8	25.7	34.6	43.5	52.3	61.2	70.1	79.0	87.9
142.5°	3.6	4.0	11.5	18.9	26.4	33.8	41.3	48.7	56.2	63.6	71.1
145°	1.8	2.0	7.9	13.8	19.8	25.7	31.6	37.5	43.5	49.4	55.3
147.5°	0.0	0.0	4.7	9.4	14.2	18.9	23.6	28.3	33.1	37.8	42.5
150°	0.0	0.0	3.3	6.6	9.9	13.2	16.4	19.7	23.0	26.3	29.6
152.5°	0.0	0.0	2.1	4.2	6.3	8.4	10.4	12.5	14.6	16.7	18.8
155°	0.0	0.0	1.1	2.2	3.3	4.4	5.5	6.6	7.7	8.8	9.9
157.5°	0.0	0.0	0.4	0.9	1.3	1.8	2.2	2.7	3.1	3.6	4.0
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: P201354

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-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°	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
2.5°	653.7	653.2	652.8	652.4	651.9	651.5	651.1	650.6	650.2	649.6	649.1
5°	645.4	644.7	643.9	643.1	642.4	641.6	640.8	640.1	639.3	639.1	638.9
7.5°	635.1	634.7	634.4	634.1	633.7	633.4	633.1	632.7	632.4	632.3	632.2
10°	628.6	628.8	629.1	629.3	629.5	629.7	630.0	630.2	630.4	630.4	630.4
12.5°	623.7	624.9	626.1	627.3	628.6	629.8	631.0	632.2	633.4	633.9	634.5
15°	622.4	625.3	628.1	631.0	633.8	636.7	639.5	642.4	645.2	646.4	647.6
17.5°	625.0	629.5	634.0	638.5	643.1	647.6	652.1	656.6	661.1	662.5	663.9
20°	632.0	637.5	643.0	648.5	653.9	659.4	664.9	670.4	675.9	677.7	679.4
22.5°	639.5	645.7	651.8	658.0	664.1	670.3	676.4	682.6	688.7	690.9	693.1
25°	647.2	654.1	661.1	668.0	674.9	681.8	688.8	695.7	702.6	705.0	707.4
27.5°	652.9	660.6	668.3	676.0	683.6	691.3	699.0	706.7	714.4	717.3	720.1
30°	657.8	666.3	674.9	683.5	692.0	700.6	709.2	717.7	726.3	729.7	733.1
32.5°	661.9	671.5	681.2	690.8	700.5	710.1	719.8	729.4	739.1	742.8	746.6
35°	665.8	676.4	687.1	697.7	708.4	719.0	729.7	740.3	751.0	755.3	759.6
37.5°	668.6	680.2	691.7	703.2	714.8	726.3	737.8	749.4	760.9	765.8	770.8
40°	671.7	684.3	697.0	709.6	722.2	734.8	747.5	760.1	772.7	778.2	783.7
42.5°	673.9	687.8	701.6	715.4	729.3	743.1	756.9	770.8	784.6	790.7	796.9
45°	675.4	690.6	705.9	721.1	736.4	751.6	766.9	782.1	797.4	804.1	810.8
47.5°	676.7	693.3	709.8	726.4	743.0	759.6	776.1	792.7	809.3	816.7	824.0
50°	677.2	695.3	713.4	731.5	749.7	767.8	785.9	804.0	822.1	830.2	838.3
52.5°	676.9	696.6	716.4	736.2	755.9	775.7	795.5	815.2	835.0	843.9	852.8
55°	677.3	698.5	719.7	740.9	762.0	783.2	804.4	825.6	846.8	856.2	865.7
57.5°	676.9	699.8	722.6	745.5	768.3	791.2	814.0	836.9	859.7	869.5	879.2
60°	676.3	700.5	724.6	748.8	772.9	797.1	821.2	845.4	869.5	879.5	889.5
62.5°	674.5	699.7	725.0	750.2	775.5	800.7	826.0	851.2	876.5	886.7	896.9
65°	671.3	697.5	723.6	749.7	775.9	802.0	828.1	854.3	880.4	890.7	901.0
67.5°	666.9	693.4	720.0	746.6	773.1	799.7	826.3	852.8	879.4	889.7	900.0
70°	658.2	685.0	711.8	738.6	765.3	792.1	818.9	845.7	872.5	882.6	892.7
72.5°	643.3	670.0	696.6	723.3	750.0	776.7	803.3	830.0	856.7	866.7	876.7
75°	623.2	649.5	675.9	702.2	728.6	754.9	781.3	807.6	834.0	843.7	853.3
77.5°	599.8	625.5	651.2	676.9	702.5	728.2	753.9	779.6	805.3	814.6	824.0
80°	573.2	598.0	622.8	647.6	672.5	697.3	722.1	746.9	771.7	780.9	790.1
82.5°	544.6	568.6	592.5	616.4	640.4	664.3	688.2	712.2	736.1	745.1	754.1
85°	518.1	541.1	564.2	587.3	610.3	633.4	656.5	679.5	702.6	711.3	719.9
87.5°	495.1	517.0	538.8	560.7	582.5	604.4	626.2	648.1	669.9	678.6	687.3
90°	473.8	495.0	516.2	537.4	558.5	579.7	600.9	622.1	643.3	651.5	659.8
92.5°	456.2	476.6	497.1	517.5	537.9	558.3	578.8	599.2	619.6	627.4	635.2
95°	439.6	459.3	478.9	498.6	518.2	537.9	557.5	577.2	596.8	604.4	612.0
97.5°	423.2	442.3	461.4	480.5	499.7	518.8	537.9	557.0	576.1	583.3	590.6
100°	407.9	426.4	445.0	463.5	482.1	500.6	519.2	537.7	556.3	563.3	570.4
102.5°	391.6	409.7	427.8	445.9	464.1	482.2	500.3	518.4	536.5	543.3	550.1
105°	375.4	393.1	410.7	428.4	446.1	463.8	481.4	499.1	516.8	523.5	530.2
107.5°	358.1	375.4	392.6	409.8	427.1	444.3	461.5	478.8	496.0	502.6	509.2
110°	340.8	357.5	374.2	390.9	407.5	424.2	440.9	457.6	474.3	480.8	487.3



TEST NUMBER: P201354

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-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°	322.4	338.6	354.7	370.9	387.0	403.2	419.3	435.5	451.6	457.9	464.1
115°	305.0	320.5	335.9	351.4	366.9	382.4	397.8	413.3	428.8	435.0	441.1
117.5°	285.7	300.8	315.8	330.9	345.9	361.0	376.0	391.1	406.1	412.0	418.0
120°	268.3	282.7	297.1	311.5	325.8	340.2	354.6	369.0	383.4	388.8	394.2
122.5°	246.3	260.3	274.4	288.4	302.5	316.5	330.6	344.6	358.7	364.1	369.5
125°	226.0	239.6	253.3	266.9	280.5	294.1	307.8	321.4	335.0	340.2	345.3
127.5°	205.7	218.6	231.6	244.5	257.5	270.4	283.4	296.3	309.3	314.3	319.4
130°	181.8	194.7	207.5	220.4	233.2	246.1	258.9	271.8	284.6	289.4	294.3
132.5°	159.6	172.0	184.4	196.8	209.3	221.7	234.1	246.5	258.9	263.4	267.9
135°	137.2	149.0	160.7	172.5	184.2	196.0	207.7	219.5	231.2	235.6	240.0
137.5°	116.7	127.7	138.6	149.6	160.6	171.6	182.5	193.5	204.5	208.9	213.3
140°	97.8	107.7	117.6	127.5	137.3	147.2	157.1	167.0	176.9	181.3	185.7
142.5°	79.8	88.5	97.1	105.8	114.5	123.2	131.8	140.5	149.2	153.7	158.2
145°	62.9	70.5	78.0	85.6	93.2	100.8	108.3	115.9	123.5	128.3	133.2
147.5°	48.9	55.2	61.6	68.0	74.3	80.7	87.1	93.4	99.8	104.5	109.2
150°	34.9	40.2	45.4	50.7	56.0	61.3	66.5	71.8	77.1	81.6	86.1
152.5°	23.1	27.4	31.6	35.9	40.2	44.5	48.7	53.0	57.3	61.5	65.7
155°	13.2	16.5	19.8	23.1	26.3	29.6	32.9	36.2	39.5	43.1	46.7
157.5°	6.3	8.6	10.9	13.2	15.5	17.8	20.1	22.4	24.7	27.7	30.6
160°	1.3	2.6	4.0	5.3	6.6	7.9	9.3	10.6	11.9	14.1	16.3
162.5°	0.3	0.7	1.0	1.3	1.7	2.0	2.3	2.7	3.0	4.3	5.6
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	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	0.0	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: P201354

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
2.5°	648.5	648.0	647.4	646.9	646.3	645.8	645.2	645.6	646.1	646.5	647.0
5°	638.6	638.4	638.2	638.0	637.7	637.5	637.3	637.4	637.5	637.6	637.7
7.5°	632.1	632.0	631.8	631.7	631.6	631.5	631.4	631.4	631.4	631.4	631.4
10°	630.4	630.4	630.4	630.4	630.4	630.4	630.4	630.1	629.8	629.4	629.1
12.5°	635.0	635.6	636.1	636.7	637.2	637.8	638.3	637.4	636.5	635.7	634.8
15°	648.8	650.0	651.3	652.5	653.7	654.9	656.1	654.8	653.5	652.2	650.9
17.5°	665.4	666.8	668.2	669.6	671.1	672.5	673.9	672.1	670.4	668.6	666.9
20°	681.2	682.9	684.7	686.4	688.2	689.9	691.7	689.6	687.5	685.4	683.3
22.5°	695.3	697.5	699.7	701.9	704.1	706.3	708.5	705.9	703.2	700.6	698.0
25°	709.8	712.2	714.7	717.1	719.5	721.9	724.3	721.4	718.6	715.7	712.9
27.5°	723.0	725.8	728.7	731.5	734.4	737.2	740.1	736.9	733.7	730.5	727.3
30°	736.5	739.9	743.3	746.7	750.1	753.5	756.9	753.2	749.4	745.7	742.0
32.5°	750.3	754.0	757.8	761.5	765.2	769.0	772.7	768.6	764.6	760.5	756.4
35°	763.8	768.1	772.4	776.7	780.9	785.2	789.5	785.0	780.5	776.0	771.5
37.5°	775.7	780.6	785.6	790.5	795.4	800.4	805.3	800.4	795.4	790.5	785.6
40°	789.2	794.7	800.1	805.6	811.1	816.6	822.1	816.6	811.1	805.6	800.1
42.5°	803.0	809.2	815.3	821.5	827.6	833.8	839.9	834.0	828.0	822.1	816.2
45°	817.5	824.2	830.9	837.6	844.3	851.0	857.7	851.2	844.7	838.3	831.8
47.5°	831.4	838.7	846.1	853.4	860.8	868.1	875.5	868.6	861.7	854.7	847.8
50°	846.5	854.6	862.7	870.8	879.0	887.1	895.2	887.6	880.1	872.5	864.9
52.5°	861.7	870.6	879.4	888.3	897.2	906.1	915.0	906.8	898.5	890.3	882.1
55°	875.1	884.6	894.0	903.5	912.9	922.4	931.8	923.3	914.9	906.4	898.0
57.5°	889.0	898.8	908.5	918.3	928.1	937.8	947.6	938.8	930.0	921.3	912.5
60°	899.5	909.5	919.5	929.5	939.5	949.5	959.5	950.6	941.7	932.8	923.9
62.5°	907.1	917.3	927.6	937.8	948.0	958.2	968.4	959.2	950.0	940.7	931.5
65°	911.4	921.7	932.0	942.3	952.7	963.0	973.3	964.2	955.1	946.0	936.9
67.5°	910.4	920.7	931.0	941.3	951.7	962.0	972.3	963.1	953.9	944.6	935.4
70°	902.8	912.9	923.0	933.1	943.2	953.3	963.4	954.3	945.2	936.1	927.0
72.5°	886.7	896.7	906.6	916.6	926.6	936.6	946.6	937.6	928.6	919.6	910.6
75°	863.0	872.6	882.3	891.9	901.6	911.2	920.9	912.2	903.6	894.9	886.2
77.5°	833.3	842.6	852.0	861.3	870.6	880.0	889.3	880.7	872.2	863.6	855.0
80°	799.4	808.6	817.8	827.0	836.3	845.5	854.7	846.4	838.0	829.7	821.3
82.5°	763.1	772.1	781.2	790.2	799.2	808.2	817.2	809.0	800.7	792.5	784.3
85°	728.6	737.3	745.9	754.6	763.3	771.9	780.6	772.6	764.6	756.6	748.6
87.5°	695.9	704.6	713.3	722.0	730.6	739.3	748.0	740.0	732.0	724.0	716.0
90°	668.0	676.2	684.5	692.7	700.9	709.2	717.4	709.7	702.0	694.3	686.6
92.5°	643.0	650.8	658.5	666.3	674.1	681.9	689.7	682.5	675.2	668.0	660.7
95°	619.5	627.1	634.7	642.3	649.8	657.4	665.0	658.1	651.2	644.3	637.4
97.5°	597.8	605.1	612.3	619.6	626.8	634.1	641.3	634.7	628.1	621.5	614.9
100°	577.4	584.4	591.5	598.5	605.5	612.6	619.6	613.1	606.6	600.2	593.7
102.5°	556.9	563.7	570.6	577.4	584.2	591.0	597.8	591.4	585.1	578.7	572.3
105°	536.9	543.6	550.3	557.0	563.7	570.4	577.1	570.8	564.6	558.3	552.0
107.5°	515.8	522.4	528.9	535.5	542.1	548.7	555.3	549.2	543.0	536.9	530.7
110°	493.7	500.2	506.7	513.2	519.6	526.1	532.6	526.6	520.5	514.5	508.4



TEST NUMBER: P201354

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-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°	470.4	476.6	482.9	489.1	495.4	501.6	507.9	502.1	496.3	490.4	484.6
115°	447.3	453.4	459.6	465.7	471.9	478.0	484.2	478.5	472.8	467.1	461.4
117.5°	423.9	429.8	435.8	441.7	447.6	453.6	459.5	454.0	448.5	443.0	437.5
120°	399.5	404.9	410.3	415.7	421.0	426.4	431.8	426.8	421.7	416.7	411.6
122.5°	374.8	380.2	385.6	391.0	396.3	401.7	407.1	402.3	397.4	392.6	387.8
125°	350.5	355.6	360.8	365.9	371.1	376.2	381.4	376.7	372.0	367.2	362.5
127.5°	324.4	329.5	334.5	339.6	344.6	349.7	354.7	350.3	345.9	341.5	337.1
130°	299.1	303.9	308.8	313.6	318.4	323.3	328.1	323.8	319.5	315.2	310.9
132.5°	272.4	276.9	281.4	285.9	290.4	294.9	299.4	295.4	291.5	287.5	283.6
135°	244.4	248.8	253.1	257.5	261.9	266.3	270.7	267.0	263.2	259.5	255.8
137.5°	217.7	222.1	226.5	230.9	235.3	239.7	244.1	240.6	237.1	233.5	230.0
140°	190.1	194.5	198.8	203.2	207.6	212.0	216.4	213.4	210.5	207.5	204.5
142.5°	162.7	167.2	171.7	176.2	180.7	185.2	189.7	187.1	184.4	181.8	179.2
145°	138.0	142.8	147.7	152.5	157.3	162.2	167.0	164.4	161.7	159.1	156.5
147.5°	114.0	118.7	123.4	128.1	132.9	137.6	142.3	139.9	137.5	135.1	132.7
150°	90.6	95.1	99.6	104.1	108.6	113.1	117.6	115.6	113.6	111.7	109.7
152.5°	69.8	74.0	78.2	82.4	86.5	90.7	94.9	93.0	91.2	89.3	87.4
155°	50.4	54.0	57.6	61.2	64.9	68.5	72.1	70.6	69.0	67.5	66.0
157.5°	33.6	36.6	39.5	42.5	45.5	48.4	51.4	50.1	48.8	47.4	46.1
160°	18.5	20.7	22.8	25.0	27.2	29.4	31.6	30.7	29.8	29.0	28.1
162.5°	6.9	8.2	9.6	10.9	12.2	13.5	14.8	14.4	13.9	13.5	13.1
165°	1.3	1.8	2.2	2.7	3.1	3.6	4.0	4.0	4.0	4.0	4.0
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: P201354

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-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°	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
2.5°	647.4	647.9	648.3	648.8	649.2	650.3	651.4	652.5	653.6	654.7	655.8
5°	637.9	638.0	638.1	638.2	638.3	639.5	640.7	641.9	643.1	644.4	645.6
7.5°	631.4	631.4	631.4	631.4	631.4	632.2	632.9	633.7	634.5	635.2	636.0
10°	628.8	628.5	628.1	627.8	627.5	628.0	628.6	629.1	629.7	630.2	630.8
12.5°	633.9	633.0	632.2	631.3	630.4	630.1	629.8	629.4	629.1	628.8	628.5
15°	649.5	648.2	646.9	645.6	644.3	642.1	639.9	637.7	635.5	633.3	631.1
17.5°	665.1	663.4	661.6	659.9	658.1	654.5	650.9	647.2	643.6	640.0	636.4
20°	681.3	679.2	677.1	675.0	672.9	668.4	663.9	659.4	654.9	650.4	645.9
22.5°	695.3	692.7	690.1	687.4	684.8	679.6	674.5	669.3	664.1	659.0	653.8
25°	710.0	707.2	704.3	701.5	698.6	692.6	686.5	680.5	674.5	668.4	662.4
27.5°	724.2	721.0	717.8	714.6	711.4	704.5	697.6	690.7	683.8	676.8	669.9
30°	738.2	734.5	730.8	727.0	723.3	715.4	707.5	699.6	691.7	683.8	675.9
32.5°	752.4	748.3	744.2	740.2	736.1	727.0	717.9	708.8	699.7	690.5	681.4
35°	767.0	762.5	758.0	753.5	749.0	738.8	728.6	718.4	708.2	697.9	687.7
37.5°	780.6	775.7	770.8	765.8	760.9	749.8	738.7	727.6	716.5	705.5	694.4
40°	794.7	789.2	783.7	778.2	772.7	760.5	748.3	736.1	723.9	711.8	699.6
42.5°	810.2	804.3	798.4	792.4	786.5	773.0	759.5	746.0	732.5	719.0	705.5
45°	825.3	818.8	812.4	805.9	799.4	784.7	770.0	755.3	740.6	725.8	711.1
47.5°	840.9	834.0	827.0	820.1	813.2	797.0	780.7	764.5	748.2	732.0	715.7
50°	857.4	849.8	842.2	834.7	827.1	809.3	791.5	773.7	755.9	738.2	720.4
52.5°	873.8	865.6	857.4	849.1	840.9	821.5	802.0	782.6	763.2	743.7	724.3
55°	889.5	881.1	872.6	864.2	855.7	834.6	813.5	792.5	771.4	750.3	729.2
57.5°	903.7	894.9	886.2	877.4	868.6	846.0	823.4	800.7	778.1	755.5	732.9
60°	915.0	906.1	897.2	888.3	879.4	855.4	831.3	807.3	783.2	759.2	735.1
62.5°	922.3	913.1	903.8	894.6	885.4	860.4	835.3	810.3	785.3	760.2	735.2
65°	927.7	918.6	909.5	900.4	891.3	865.3	839.3	813.2	787.2	761.2	735.2
67.5°	926.2	917.0	907.7	898.5	889.3	862.8	836.4	809.9	783.5	757.0	730.6
70°	917.8	908.7	899.6	890.5	881.4	854.7	828.0	801.4	774.7	748.0	721.3
72.5°	901.6	892.6	883.6	874.6	865.6	839.1	812.7	786.2	759.8	733.3	706.9
75°	877.6	868.9	860.2	851.6	842.9	816.8	790.6	764.5	738.4	712.2	686.1
77.5°	846.5	837.9	829.3	820.8	812.2	787.0	761.7	736.5	711.2	686.0	660.7
80°	813.0	804.6	796.3	787.9	779.6	755.0	730.4	705.8	681.2	656.7	632.1
82.5°	776.0	767.8	759.6	751.3	743.1	719.4	695.7	671.9	648.2	624.5	600.8
85°	740.5	732.5	724.5	716.5	708.5	685.7	662.8	640.0	617.2	594.3	571.5
87.5°	707.9	699.9	691.9	683.9	675.9	653.9	632.0	610.0	588.0	566.1	544.1
90°	679.0	671.3	663.6	655.9	648.2	627.2	606.3	585.3	564.3	543.4	522.4
92.5°	653.5	646.2	639.0	631.7	624.5	604.3	584.1	563.9	543.7	523.5	503.3
95°	630.4	623.5	616.6	609.7	602.8	583.3	563.7	544.2	524.6	505.1	485.5
97.5°	608.4	601.8	595.2	588.6	582.0	563.0	544.0	525.0	506.0	487.1	468.1
100°	587.2	580.7	574.3	567.8	561.3	542.7	524.2	505.6	487.1	468.5	450.0
102.5°	566.0	559.6	553.2	546.9	540.5	522.5	504.5	486.5	468.5	450.4	432.4
105°	545.8	539.5	533.2	527.0	520.7	503.0	485.4	467.7	450.0	432.4	414.7
107.5°	524.6	518.4	512.3	506.1	500.0	482.9	465.7	448.6	431.5	414.3	397.2
110°	502.4	496.3	490.3	484.2	478.2	461.7	445.3	428.8	412.3	395.9	379.4



TEST NUMBER: P201354

CATALOG NUMBER: 4LBLEDD4-6-ASYMW-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°	478.8	473.0	467.1	461.3	455.5	439.7	423.9	408.1	392.3	376.4	360.6
115°	455.6	449.9	444.2	438.5	432.8	417.6	402.5	387.3	372.2	357.0	341.9
117.5°	432.1	426.6	421.1	415.6	410.1	395.5	380.9	366.3	351.7	337.0	322.4
120°	406.6	401.5	396.5	391.4	386.4	372.3	358.3	344.2	330.2	316.1	302.1
122.5°	382.9	378.1	373.3	368.4	363.6	349.7	335.7	321.8	307.8	293.9	279.9
125°	357.8	353.1	348.3	343.6	338.9	325.6	312.3	299.1	285.8	272.5	259.2
127.5°	332.8	328.4	324.0	319.6	315.2	302.5	289.7	277.0	264.3	251.5	238.8
130°	306.7	302.4	298.1	293.8	289.5	277.9	266.2	254.6	243.0	231.3	219.7
132.5°	279.6	275.7	271.7	267.8	263.8	252.8	241.8	230.9	219.9	208.9	197.9
135°	252.0	248.3	244.6	240.8	237.1	227.1	217.1	207.1	197.1	187.2	177.2
137.5°	226.5	223.0	219.4	215.9	212.4	203.3	194.2	185.1	176.0	166.8	157.7
140°	201.6	198.6	195.6	192.7	189.7	181.0	172.4	163.7	155.0	146.4	137.7
142.5°	176.5	173.9	171.3	168.6	166.0	158.2	150.4	142.6	134.8	127.0	119.2
145°	153.8	151.2	148.6	145.9	143.3	136.2	129.0	121.9	114.7	107.6	100.4
147.5°	130.2	127.8	125.4	123.0	120.6	114.2	107.8	101.5	95.1	88.7	82.3
150°	107.7	105.7	103.8	101.8	99.8	94.1	88.4	82.7	77.0	71.2	65.5
152.5°	85.6	83.7	81.8	80.0	78.1	73.3	68.4	63.6	58.8	53.9	49.1
155°	64.4	62.9	61.4	59.8	58.3	54.2	50.2	46.1	42.0	38.0	33.9
157.5°	44.8	43.5	42.1	40.8	39.5	36.5	33.6	30.6	27.6	24.7	21.7
160°	27.2	26.3	25.5	24.6	23.7	21.7	19.7	17.8	15.8	13.8	11.8
162.5°	12.6	12.2	11.8	11.3	10.9	10.0	9.1	8.3	7.4	6.5	5.6
165°	4.0	4.0	4.0	4.0	4.0	3.7	3.3	3.0	2.7	2.3	2.0
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: P201354

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
2.5°	656.9	658.0	659.1	659.3	659.5	659.8	660.0	660.2	660.4	660.7	660.9
5°	646.8	648.0	649.2	649.6	650.1	650.5	650.9	651.4	651.8	652.2	652.7
7.5°	636.8	637.5	638.3	638.9	639.4	640.0	640.5	641.1	641.6	642.2	642.7
10°	631.3	631.9	632.4	632.5	632.6	632.7	632.8	633.0	633.1	633.2	633.3
12.5°	628.1	627.8	627.5	626.9	626.4	625.8	625.3	624.7	624.2	623.6	623.1
15°	628.9	626.7	624.5	623.0	621.4	619.9	618.4	616.8	615.3	613.8	612.2
17.5°	632.7	629.1	625.5	622.4	619.3	616.3	613.2	610.1	607.0	604.0	600.9
20°	641.4	636.9	632.4	627.2	622.1	616.9	611.8	606.6	601.5	596.3	591.2
22.5°	648.6	643.5	638.3	631.1	623.8	616.6	609.3	602.1	594.8	587.6	580.3
25°	656.4	650.3	644.3	635.1	625.9	616.6	607.4	598.2	589.0	579.7	570.5
27.5°	663.0	656.1	649.2	638.1	627.0	615.9	604.8	593.8	582.7	571.6	560.5
30°	668.0	660.1	652.2	639.6	626.9	614.3	601.7	589.0	576.4	563.8	551.1
32.5°	672.3	663.2	654.1	640.3	626.4	612.6	598.8	584.9	571.1	557.3	543.4
35°	677.5	667.3	657.1	642.1	627.0	612.0	596.9	581.9	566.8	551.8	536.7
37.5°	683.3	672.2	661.1	644.6	628.1	611.7	595.2	578.7	562.2	545.8	529.3
40°	687.4	675.2	663.0	645.3	627.6	610.0	592.3	574.6	556.9	539.3	521.6
42.5°	692.0	678.5	665.0	646.0	627.0	608.0	589.0	570.1	551.1	532.1	513.1
45°	696.4	681.7	667.0	646.6	626.2	605.7	585.3	564.9	544.5	524.0	503.6
47.5°	699.5	683.2	667.0	645.4	623.7	602.1	580.5	558.8	537.2	515.6	493.9
50°	702.6	684.8	667.0	643.9	620.9	597.8	574.8	551.7	528.7	505.6	482.6
52.5°	704.9	685.4	666.0	641.7	617.5	593.2	568.9	544.7	520.4	496.1	471.9
55°	708.2	687.1	666.0	640.3	614.6	588.9	563.2	537.6	511.9	486.2	460.5
57.5°	710.2	687.6	665.0	638.0	611.0	584.0	557.0	529.9	502.9	475.9	448.9
60°	711.1	687.0	663.0	634.8	606.6	578.4	550.2	521.9	493.7	465.5	437.3
62.5°	710.2	685.1	660.1	630.6	601.0	571.5	542.0	512.4	482.9	453.4	423.8
65°	709.1	683.1	657.1	626.1	595.2	564.2	533.2	502.3	471.3	440.3	409.4
67.5°	704.1	677.7	651.2	619.1	587.1	555.0	522.9	490.9	458.8	426.7	394.7
70°	694.7	668.0	641.3	608.5	575.6	542.8	510.0	477.1	444.3	411.5	378.6
72.5°	680.4	654.0	627.5	594.1	560.7	527.4	494.0	460.6	427.2	393.9	360.5
75°	660.0	633.8	607.7	574.4	541.2	507.9	474.6	441.4	408.1	374.8	341.6
77.5°	635.5	610.2	585.0	552.2	519.3	486.5	453.7	420.8	388.0	355.2	322.3
80°	607.5	582.9	558.3	526.2	494.2	462.1	430.1	398.0	366.0	333.9	301.9
82.5°	577.0	553.3	529.6	498.8	467.9	437.1	406.2	375.4	344.5	313.7	282.8
85°	548.7	525.8	503.0	472.9	442.8	412.7	382.6	352.6	322.5	292.4	262.3
87.5°	522.1	500.2	478.2	449.2	420.2	391.3	362.3	333.3	304.3	275.4	246.4
90°	501.4	480.5	459.5	431.3	403.1	374.8	346.6	318.4	290.2	261.9	233.7
92.5°	483.1	462.9	442.7	415.4	388.0	360.7	333.3	306.0	278.6	251.3	223.9
95°	466.0	446.4	426.9	400.3	373.7	347.2	320.6	294.0	267.4	240.9	214.3
97.5°	449.1	430.1	411.1	385.2	359.3	333.4	307.5	281.5	255.6	229.7	203.8
100°	431.4	412.9	394.3	369.2	344.0	318.9	293.7	268.6	243.4	218.3	193.1
102.5°	414.4	396.4	378.4	353.8	329.2	304.6	280.0	255.5	230.9	206.3	181.7
105°	397.0	379.4	361.7	337.9	314.0	290.2	266.4	242.5	218.7	194.9	171.0
107.5°	380.1	362.9	345.8	322.5	299.3	276.0	252.7	229.5	206.2	182.9	159.7
110°	362.9	346.5	330.0	307.4	284.8	262.2	239.6	216.9	194.3	171.7	149.1



TEST NUMBER: P201354

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-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°	344.8	329.0	313.2	291.2	269.3	247.3	225.4	203.4	181.5	159.5	137.6
115°	326.7	311.6	296.4	275.2	254.0	232.8	211.6	190.5	169.3	148.1	126.9
117.5°	307.8	293.2	278.6	258.3	238.0	217.7	197.4	177.0	156.7	136.4	116.1
120°	288.0	274.0	259.9	240.6	221.3	201.9	182.6	163.3	144.0	124.6	105.3
122.5°	266.0	252.0	238.1	220.1	202.1	184.1	166.1	148.1	130.1	112.1	94.1
125°	246.0	232.7	219.4	202.4	185.4	168.3	151.3	134.3	117.3	100.2	83.2
127.5°	226.1	213.3	200.6	184.7	168.8	152.8	136.9	121.0	105.1	89.1	73.2
130°	208.1	196.4	184.8	169.6	154.5	139.3	124.2	109.0	93.9	78.7	63.6
132.5°	187.0	176.0	165.0	151.1	137.1	123.2	109.2	95.3	81.3	67.4	53.4
135°	167.2	157.2	147.2	134.4	121.5	108.7	95.8	83.0	70.1	57.3	44.4
137.5°	148.6	139.5	130.4	118.5	106.7	94.8	83.0	71.1	59.3	47.4	35.6
140°	129.0	120.4	111.7	101.2	90.6	80.1	69.5	59.0	48.4	37.9	27.3
142.5°	111.4	103.6	95.8	86.5	77.2	67.8	58.5	49.2	39.9	30.5	21.2
145°	93.3	86.1	79.0	71.1	63.2	55.3	47.4	39.5	31.6	23.7	15.8
147.5°	76.0	69.6	63.2	56.8	50.5	44.1	37.7	31.4	25.0	18.6	12.3
150°	59.8	54.1	48.4	43.5	38.5	33.6	28.7	23.7	18.8	13.9	8.9
152.5°	44.3	39.4	34.6	31.1	27.6	24.1	20.6	17.0	13.5	10.0	6.5
155°	29.8	25.8	21.7	19.5	17.3	15.1	12.9	10.8	8.6	6.4	4.2
157.5°	18.7	15.8	12.8	11.5	10.2	8.9	7.6	6.2	4.9	3.6	2.3
160°	9.9	7.9	5.9	5.4	4.8	4.3	3.7	3.2	2.6	2.1	1.5
162.5°	4.8	3.9	3.0	2.7	2.3	2.0	1.7	1.3	1.0	0.7	0.3
165°	1.7	1.3	1.0	0.9	0.8	0.7	0.6	0.4	0.3	0.2	0.1
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	0.6	0.7	0.8	0.9
175°	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9
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: P201354

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-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°	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
2.5°	661.1	662.9	664.6	666.4	668.1	669.9	671.6	673.4	675.1	676.9	676.8
5°	653.1	655.4	657.7	660.0	662.3	664.7	667.0	669.3	671.6	673.9	674.7
7.5°	643.3	646.0	648.8	651.5	654.3	657.0	659.8	662.5	665.3	668.0	669.5
10°	633.4	636.5	639.6	642.6	645.7	648.8	651.9	654.9	658.0	661.1	663.4
12.5°	622.5	625.7	628.9	632.1	635.3	638.4	641.6	644.8	648.0	651.2	654.4
15°	610.7	613.9	617.1	620.2	623.4	626.6	629.8	632.9	636.1	639.3	643.5
17.5°	597.8	601.1	604.4	607.7	611.0	614.3	617.6	620.9	624.2	627.5	632.4
20°	586.0	589.0	591.9	594.9	597.8	600.8	603.7	606.7	609.6	612.6	618.6
22.5°	573.1	575.6	578.1	580.7	583.2	585.7	588.2	590.8	593.3	595.8	602.9
25°	561.3	563.2	565.0	566.9	568.7	570.6	572.4	574.3	576.1	578.0	586.1
27.5°	549.4	550.5	551.6	552.7	553.8	554.9	556.0	557.1	558.2	559.3	568.6
30°	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	538.5	549.3
32.5°	529.6	528.1	526.5	525.0	523.5	521.9	520.4	518.9	517.3	515.8	528.1
35°	521.7	518.4	515.1	511.8	508.5	505.3	502.0	498.7	495.4	492.1	506.2
37.5°	512.8	507.9	502.9	498.0	493.1	488.1	483.2	478.3	473.3	468.4	484.2
40°	503.9	497.2	490.5	483.8	477.1	470.5	463.8	457.1	450.4	443.7	461.4
42.5°	494.1	485.8	477.4	469.1	460.7	452.4	444.0	435.7	427.3	419.0	438.5
45°	483.2	473.2	463.2	453.2	443.2	433.3	423.3	413.3	403.3	393.3	414.7
47.5°	472.3	460.4	448.6	436.7	424.9	413.0	401.2	389.3	377.5	365.6	389.0
50°	459.5	446.2	432.9	419.6	406.3	393.1	379.8	366.5	353.2	339.9	364.9
52.5°	447.6	432.6	417.5	402.5	387.4	372.4	357.3	342.3	327.2	312.2	339.1
55°	434.8	418.2	401.6	385.1	368.5	351.9	335.3	318.8	302.2	285.6	314.1
57.5°	421.9	403.9	385.9	367.9	349.9	331.9	313.9	295.9	277.9	259.9	289.9
60°	409.1	389.3	369.6	349.8	330.0	310.3	290.5	270.7	251.0	231.2	262.9
62.5°	394.3	373.2	352.1	331.0	309.9	288.9	267.8	246.7	225.6	204.5	237.4
65°	378.4	356.2	334.0	311.9	289.7	267.5	245.3	223.2	201.0	178.8	213.0
67.5°	362.6	339.4	316.3	293.1	269.9	246.8	223.6	200.4	177.3	154.1	189.2
70°	345.8	321.8	297.7	273.7	249.6	225.6	201.5	177.5	153.4	129.4	165.4
72.5°	327.1	302.5	277.9	253.3	228.7	204.1	179.5	154.9	130.3	105.7	142.4
75°	308.3	283.3	258.2	233.2	208.2	183.1	158.1	133.1	108.0	83.0	120.1
77.5°	289.5	264.3	239.0	213.8	188.5	163.3	138.0	112.8	87.5	62.3	99.6
80°	269.8	244.8	219.7	194.7	169.7	144.6	119.6	94.6	69.5	44.5	81.8
82.5°	252.0	227.1	202.2	177.2	152.3	127.4	102.5	77.5	52.6	27.7	64.6
85°	232.2	208.0	183.9	159.7	135.6	111.4	87.3	63.1	39.0	14.8	51.0
87.5°	217.4	193.8	170.2	146.6	123.0	99.3	75.7	52.1	28.5	4.9	40.3
90°	205.5	182.7	159.8	137.0	114.2	91.3	68.5	45.7	22.8	0.0	34.1
92.5°	196.6	174.8	152.9	131.1	109.2	87.4	65.5	43.7	21.8	0.0	32.7
95°	187.7	166.8	146.0	125.1	104.3	83.4	62.6	41.7	20.9	0.0	31.5
97.5°	177.9	158.1	138.4	118.6	98.8	79.1	59.3	39.5	19.8	0.0	30.1
100°	168.0	149.3	130.7	112.0	93.3	74.7	56.0	37.3	18.7	0.0	28.8
102.5°	157.1	139.6	122.2	104.7	87.3	69.8	52.4	34.9	17.5	0.0	27.0
105°	147.2	130.8	114.5	98.1	81.8	65.4	49.1	32.7	16.4	0.0	25.6
107.5°	136.4	121.2	106.1	90.9	75.8	60.6	45.5	30.3	15.2	0.0	24.2
110°	126.5	112.4	98.4	84.3	70.3	56.2	42.2	28.1	14.1	0.0	22.6



TEST NUMBER: P201354

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-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°	115.6	102.8	89.9	77.1	64.2	51.4	38.5	25.7	12.8	0.0	21.1
115°	105.7	94.0	82.2	70.5	58.7	47.0	35.2	23.5	11.7	0.0	19.3
117.5°	95.8	85.3	74.7	64.2	53.7	43.1	32.6	22.1	11.5	1.0	18.6
120°	86.0	76.6	67.1	57.7	48.2	38.8	29.3	19.9	10.4	1.0	16.9
122.5°	76.1	67.6	59.2	50.7	42.3	33.8	25.4	16.9	8.5	0.0	14.4
125°	66.2	59.0	51.7	44.5	37.2	30.0	22.7	15.5	8.2	1.0	13.5
127.5°	57.3	51.0	44.8	38.5	32.3	26.0	19.8	13.5	7.3	1.0	11.5
130°	48.4	43.1	37.9	32.6	27.3	22.1	16.8	11.5	6.3	1.0	9.6
132.5°	39.5	35.2	30.9	26.7	22.4	18.1	13.8	9.6	5.3	1.0	7.9
135°	31.6	28.2	24.8	21.4	18.0	14.6	11.2	7.8	4.4	1.0	6.4
137.5°	23.7	21.2	18.7	16.1	13.6	11.1	8.6	6.0	3.5	1.0	5.1
140°	16.8	15.0	13.3	11.5	9.8	8.0	6.3	4.5	2.8	1.0	3.9
142.5°	11.9	10.7	9.5	8.3	7.1	5.8	4.6	3.4	2.2	1.0	3.0
145°	7.9	7.1	6.4	5.6	4.8	4.1	3.3	2.5	1.8	1.0	2.4
147.5°	5.9	5.4	4.8	4.3	3.7	3.2	2.6	2.1	1.5	1.0	1.9
150°	4.0	3.7	3.3	3.0	2.7	2.3	2.0	1.7	1.3	1.0	1.7
152.5°	3.0	2.8	2.6	2.3	2.1	1.9	1.7	1.4	1.2	1.0	1.4
155°	2.0	1.9	1.8	1.7	1.6	1.4	1.3	1.2	1.1	1.0	1.2
157.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1
160°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
162.5°	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9	1.0	1.0
165°	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9	1.0	0.9
167.5°	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9	1.0	0.9
170°	0.0	0.1	0.2	0.3	0.4	0.6	0.7	0.8	0.9	1.0	0.9
172.5°	1.0	1.1	1.2	1.3	1.4	1.6	1.7	1.8	1.9	2.0	1.8
175°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.9
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: P201354

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
2.5°	676.7	676.6	676.5	676.3	676.2	676.1	676.0	675.9	676.4	677.0	677.5
5°	675.4	676.2	677.0	677.7	678.5	679.3	680.0	680.8	682.0	683.2	684.4
7.5°	671.1	672.6	674.1	675.7	677.2	678.7	680.3	681.8	683.8	685.8	687.7
10°	665.7	668.0	670.3	672.6	674.9	677.2	679.5	681.8	684.7	687.5	690.4
12.5°	657.6	660.7	663.9	667.1	670.3	673.4	676.6	679.8	683.9	687.9	692.0
15°	647.7	651.8	656.0	660.2	664.4	668.5	672.7	676.9	682.3	687.7	693.0
17.5°	637.4	642.3	647.2	652.2	657.1	662.0	667.0	671.9	678.8	685.7	692.7
20°	624.7	630.7	636.8	642.8	648.9	654.9	661.0	667.0	675.8	684.6	693.3
22.5°	610.1	617.2	624.4	631.5	638.7	645.8	653.0	660.1	671.4	682.7	694.0
25°	594.3	602.4	610.5	618.7	626.8	634.9	643.1	651.2	665.0	678.9	692.7
27.5°	578.0	587.3	596.6	606.0	615.3	624.6	634.0	643.3	659.5	675.8	692.0
30°	560.0	570.8	581.6	592.3	603.1	613.9	624.6	635.4	653.8	672.3	690.7
32.5°	540.4	552.7	565.0	577.3	589.6	601.9	614.2	626.5	647.1	667.8	688.4
35°	520.2	534.3	548.3	562.4	576.4	590.5	604.5	618.6	641.1	663.6	686.1
37.5°	500.0	515.8	531.6	547.5	563.3	579.1	594.9	610.7	635.1	659.4	683.8
40°	479.1	496.7	514.4	532.1	549.8	567.4	585.1	602.8	629.0	655.3	681.5
42.5°	458.1	477.6	497.1	516.7	536.2	555.7	575.3	594.8	622.7	650.6	678.5
45°	436.1	457.5	478.9	500.4	521.8	543.2	564.6	586.0	615.5	645.1	674.6
47.5°	412.4	435.8	459.2	482.5	505.9	529.3	552.7	576.1	607.4	638.7	670.0
50°	390.0	415.0	440.0	465.1	490.1	515.1	540.2	565.2	598.0	630.9	663.7
52.5°	366.0	392.9	419.8	446.7	473.6	500.5	527.4	554.3	588.4	622.6	656.7
55°	342.7	371.2	399.8	428.3	456.9	485.4	514.0	542.5	578.2	613.9	649.5
57.5°	319.8	349.8	379.8	409.7	439.7	469.7	499.6	529.6	566.7	603.8	640.9
60°	294.7	326.4	358.1	389.9	421.6	453.3	485.1	516.8	555.3	593.9	632.4
62.5°	270.4	303.3	336.3	369.2	402.2	435.1	468.1	501.0	541.0	580.9	620.9
65°	247.1	281.3	315.4	349.6	383.7	417.9	452.0	486.2	527.4	568.5	609.7
67.5°	224.4	259.5	294.6	329.8	364.9	400.0	435.2	470.3	512.8	555.3	597.8
70°	201.4	237.4	273.4	309.5	345.5	381.5	417.5	453.5	497.0	540.5	583.9
72.5°	179.1	215.7	252.4	289.1	325.8	362.4	399.1	435.8	479.8	523.8	567.9
75°	157.2	194.3	231.4	268.6	305.7	342.8	379.9	417.0	461.5	505.9	550.4
77.5°	136.9	174.3	211.6	248.9	286.2	323.6	360.9	398.2	442.7	487.1	531.6
80°	119.1	156.5	193.8	231.1	268.4	305.8	343.1	380.4	424.4	468.5	512.5
82.5°	101.5	138.4	175.3	212.1	249.0	285.9	322.8	359.7	403.5	447.3	491.1
85°	87.3	123.5	159.7	196.0	232.2	268.4	304.7	340.9	384.0	427.2	470.3
87.5°	75.6	111.0	146.3	181.7	217.0	252.4	287.7	323.1	365.4	407.6	449.9
90°	68.3	102.4	136.6	170.7	204.9	239.0	273.2	307.3	348.7	390.1	431.5
92.5°	65.4	98.2	130.9	163.6	196.3	229.1	261.8	294.5	335.2	376.0	416.7
95°	63.0	94.5	126.0	157.6	189.1	220.6	252.1	283.6	323.6	363.5	403.5
97.5°	60.2	90.2	120.3	150.4	180.5	210.5	240.6	270.7	310.1	349.5	389.0
100°	57.5	86.3	115.1	143.8	172.6	201.4	230.1	258.9	297.7	336.4	375.2
102.5°	54.0	81.0	108.0	135.1	162.1	189.1	216.1	243.1	281.4	319.7	358.0
105°	51.2	76.7	102.3	127.9	153.5	179.0	204.6	230.2	267.6	305.1	342.5
107.5°	48.3	72.5	96.6	120.8	144.9	169.1	193.2	217.4	254.1	290.7	327.4
110°	45.2	67.9	90.5	113.1	135.7	158.4	181.0	203.6	239.4	275.2	311.0



TEST NUMBER: P201354

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-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°	42.2	63.2	84.3	105.4	126.5	147.5	168.6	189.7	224.4	259.1	293.8
115°	38.6	58.0	77.3	96.6	115.9	135.3	154.6	173.9	207.5	241.1	274.7
117.5°	36.1	53.7	71.3	88.8	106.4	124.0	141.5	159.1	191.6	224.1	256.6
120°	32.8	48.8	64.7	80.6	96.5	112.5	128.4	144.3	175.7	207.1	238.5
122.5°	28.8	43.1	57.5	71.9	86.3	100.6	115.0	129.4	159.5	189.6	219.7
125°	26.0	38.5	51.0	63.6	76.1	88.6	101.1	113.6	142.4	171.1	199.9
127.5°	22.1	32.6	43.1	53.7	64.2	74.7	85.3	95.8	122.9	150.0	177.2
130°	18.1	26.7	35.3	43.8	52.4	61.0	69.5	78.1	102.8	127.5	152.2
132.5°	14.8	21.7	28.6	35.6	42.5	49.4	56.3	63.2	85.4	107.6	129.7
135°	11.8	17.1	22.5	27.9	33.3	38.6	44.0	49.4	69.1	88.7	108.4
137.5°	9.1	13.2	17.2	21.3	25.3	29.4	33.4	37.5	55.0	72.4	89.9
140°	6.7	9.6	12.4	15.3	18.1	21.0	23.8	26.7	42.1	57.4	72.8
142.5°	5.0	6.9	8.9	10.9	12.9	14.8	16.8	18.8	32.0	45.1	58.3
145°	3.8	5.3	6.7	8.1	9.5	11.0	12.4	13.8	24.7	35.6	46.4
147.5°	2.8	3.6	4.5	5.4	6.3	7.1	8.0	8.9	17.9	26.9	35.9
150°	2.3	3.0	3.6	4.3	4.9	5.6	6.2	6.9	13.7	20.5	27.3
152.5°	1.9	2.3	2.7	3.2	3.6	4.0	4.5	4.9	9.8	14.8	19.7
155°	1.4	1.7	1.9	2.1	2.3	2.6	2.8	3.0	6.3	9.6	12.9
157.5°	1.2	1.3	1.4	1.6	1.7	1.8	1.9	2.0	4.0	6.0	7.9
160°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	3.2	4.3
162.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.7	2.0
165°	0.8	0.7	0.6	0.4	0.3	0.2	0.1	0.0	0.1	0.2	0.3
167.5°	0.8	0.7	0.6	0.4	0.3	0.2	0.1	0.0	0.0	0.0	0.0
170°	0.8	0.7	0.6	0.4	0.3	0.2	0.1	0.0	0.0	0.0	0.0
172.5°	1.6	1.3	1.1	0.9	0.7	0.4	0.2	0.0	0.0	0.0	0.0
175°	0.8	0.7	0.6	0.4	0.3	0.2	0.1	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: P201354

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-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°	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
2.5°	678.1	678.6	679.2	679.7	680.3	680.8	680.9	681.0	681.1	681.2	681.4
5°	685.6	686.9	688.1	689.3	690.5	691.7	692.2	692.8	693.3	693.9	694.4
7.5°	689.7	691.7	693.7	695.6	697.6	699.6	701.1	702.7	704.2	705.7	707.3
10°	693.2	696.1	698.9	701.8	704.6	707.5	710.0	712.5	715.1	717.6	720.1
12.5°	696.1	700.1	704.2	708.3	712.3	716.4	719.9	723.4	726.9	730.4	734.0
15°	698.4	703.8	709.2	714.5	719.9	725.3	729.9	734.5	739.1	743.7	748.4
17.5°	699.6	706.5	713.4	720.4	727.3	734.2	740.8	747.4	754.0	760.6	767.1
20°	702.1	710.9	719.7	728.4	737.2	746.0	754.1	762.3	770.4	778.5	786.7
22.5°	705.3	716.6	727.9	739.2	750.5	761.8	771.0	780.2	789.5	798.7	807.9
25°	706.5	720.4	734.2	748.0	761.9	775.7	786.1	796.5	807.0	817.4	827.8
27.5°	708.3	724.5	740.8	757.0	773.3	789.5	801.0	812.6	824.1	835.6	847.2
30°	709.2	727.6	746.1	764.5	783.0	801.4	814.0	826.6	839.3	851.9	864.5
32.5°	709.0	729.7	750.3	770.9	791.6	812.2	826.1	840.1	854.0	868.0	881.9
35°	708.6	731.1	753.6	776.1	798.6	821.1	836.5	851.9	867.2	882.6	898.0
37.5°	708.2	732.5	756.9	781.3	805.6	830.0	846.7	863.4	880.1	896.8	913.4
40°	707.7	734.0	760.2	786.4	812.7	838.9	856.8	874.7	892.6	910.5	928.4
42.5°	706.4	734.2	762.1	790.0	817.9	845.8	865.2	884.7	904.1	923.5	943.0
45°	704.1	733.7	763.2	792.7	822.3	851.8	872.7	893.5	914.4	935.2	956.1
47.5°	701.3	732.5	763.8	795.1	826.4	857.7	880.2	902.7	925.2	947.7	970.3
50°	696.5	729.4	762.2	795.0	827.9	860.7	884.8	909.0	933.1	957.3	981.4
52.5°	690.9	725.0	759.2	793.3	827.5	861.6	887.6	913.6	939.7	965.7	991.7
55°	685.2	720.9	756.6	792.2	827.9	863.6	891.3	918.9	946.6	974.3	1001.9
57.5°	678.0	715.2	752.3	789.4	826.5	863.6	892.8	922.0	951.2	980.4	1009.7
60°	670.9	709.5	748.0	786.5	825.1	863.6	894.1	924.6	955.2	985.7	1016.2
62.5°	660.9	700.8	740.8	780.8	820.7	860.7	892.4	924.1	955.9	987.6	1019.3
65°	650.9	692.0	733.2	774.4	815.5	856.7	889.5	922.3	955.2	988.0	1020.8
67.5°	640.3	682.7	725.2	767.7	810.2	852.7	886.2	919.7	953.2	986.7	1020.1
70°	627.4	670.9	714.4	757.8	801.3	844.8	878.8	912.9	946.9	981.0	1015.0
72.5°	611.9	655.9	699.9	744.0	788.0	832.0	866.6	901.2	935.8	970.4	1004.9
75°	594.9	639.3	683.8	728.3	772.7	817.2	852.0	886.8	921.6	956.4	991.2
77.5°	576.1	620.5	665.0	709.5	753.9	798.4	833.1	867.8	902.5	937.2	971.8
80°	556.5	600.6	644.6	688.6	732.7	776.7	811.2	845.6	880.1	914.6	949.0
82.5°	534.9	578.7	622.5	666.3	710.1	753.9	787.7	821.5	855.4	889.2	923.0
85°	513.5	556.6	599.8	642.9	686.1	729.2	762.6	796.0	829.3	862.7	896.1
87.5°	492.2	534.4	576.7	619.0	661.2	703.5	736.1	768.7	801.3	833.9	866.6
90°	472.9	514.2	555.6	597.0	638.4	679.8	711.5	743.3	775.0	806.7	838.5
92.5°	457.4	498.2	538.9	579.6	620.4	661.1	692.1	723.0	754.0	784.9	815.9
95°	443.5	483.4	523.4	563.4	603.3	643.3	673.8	704.3	734.9	765.4	795.9
97.5°	428.4	467.8	507.2	546.7	586.1	625.5	654.9	684.3	713.8	743.2	772.6
100°	413.9	452.7	491.4	530.2	568.9	607.7	636.5	665.2	694.0	722.8	751.5
102.5°	396.3	434.7	473.0	511.3	549.6	587.9	616.2	644.6	672.9	701.2	729.6
105°	380.0	417.4	454.9	492.3	529.8	567.2	595.1	623.0	650.9	678.8	706.6
107.5°	364.1	400.7	437.4	474.1	510.7	547.4	574.5	601.6	628.8	655.9	683.0
110°	346.8	382.5	418.3	454.1	489.9	525.7	552.3	578.8	605.4	632.0	658.5



TEST NUMBER: P201354

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-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°	328.5	363.2	397.9	432.6	467.3	502.0	527.9	553.8	579.7	605.6	631.6
115°	308.3	341.9	375.5	409.1	442.7	476.3	501.8	527.2	552.7	578.2	603.6
117.5°	289.1	321.6	354.1	386.6	419.1	451.6	476.2	500.8	525.4	550.0	574.5
120°	269.9	301.3	332.7	364.1	395.5	426.9	450.5	474.1	497.7	521.3	544.9
122.5°	249.8	279.8	309.9	340.0	370.1	400.2	422.9	445.6	468.4	491.1	513.8
125°	228.7	257.4	286.2	315.0	343.7	372.5	394.2	416.0	437.7	459.5	481.2
127.5°	204.3	231.4	258.5	285.7	312.8	339.9	361.1	382.3	403.5	424.7	445.8
130°	176.9	201.6	226.3	251.0	275.7	300.4	321.8	343.2	364.6	386.0	407.5
132.5°	151.9	174.1	196.3	218.4	240.6	262.8	284.0	305.2	326.4	347.6	368.7
135°	128.0	147.7	167.3	187.0	206.6	226.3	247.0	267.8	288.5	309.3	330.0
137.5°	107.4	124.8	142.3	159.8	177.2	194.7	214.0	233.3	252.7	272.0	291.3
140°	88.2	103.5	118.9	134.3	149.6	165.0	182.2	199.5	216.7	234.0	251.2
142.5°	71.5	84.6	97.8	111.0	124.1	137.3	152.5	167.6	182.8	197.9	213.1
145°	57.3	68.2	79.1	89.9	100.8	111.7	124.8	137.8	150.9	163.9	177.0
147.5°	44.9	53.9	62.9	71.9	80.9	89.9	100.9	111.9	122.8	133.8	144.8
150°	34.1	41.0	47.8	54.6	61.4	68.2	77.5	86.9	96.2	105.5	114.9
152.5°	24.7	29.6	34.6	39.5	44.5	49.4	57.1	64.8	72.5	80.2	87.8
155°	16.2	19.4	22.7	26.0	29.3	32.6	38.6	44.7	50.7	56.8	62.8
157.5°	9.9	11.9	13.9	15.8	17.8	19.8	24.3	28.8	33.3	37.8	42.3
160°	5.4	6.5	7.6	8.7	9.8	10.9	13.8	16.6	19.5	22.3	25.2
162.5°	2.3	2.7	3.0	3.3	3.7	4.0	5.6	7.3	8.9	10.6	12.2
165°	0.4	0.6	0.7	0.8	0.9	1.0	1.7	2.3	3.0	3.6	4.3
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.2	0.3	0.4	0.6
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: P201354

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0	667.0
2.5°	681.5	681.6	681.7	681.8	681.3	680.7	680.2	679.6	679.1	678.5	678.0
5°	695.0	695.5	696.1	696.6	696.7	696.8	696.9	697.0	697.2	697.3	697.4
7.5°	708.8	710.3	711.9	713.4	713.5	713.6	713.7	713.8	714.0	714.1	714.2
10°	722.6	725.2	727.7	730.2	730.5	730.9	731.2	731.5	731.9	732.2	732.5
12.5°	737.5	741.0	744.5	748.0	748.9	749.8	750.6	751.5	752.4	753.3	754.1
15°	753.0	757.6	762.2	766.8	768.7	770.5	772.4	774.3	776.1	778.0	779.9
17.5°	773.7	780.3	786.9	793.5	795.6	797.7	799.7	801.8	803.9	806.0	808.0
20°	794.8	802.9	811.1	819.2	821.8	824.5	827.1	829.7	832.4	835.0	837.6
22.5°	817.1	826.4	835.6	844.8	847.9	851.0	854.0	857.1	860.2	863.3	866.3
25°	838.2	848.7	859.1	869.5	872.9	876.3	879.7	883.1	886.6	890.0	893.4
27.5°	858.7	870.2	881.8	893.3	897.2	901.2	905.1	909.1	913.0	917.0	920.9
30°	877.1	889.8	902.4	915.0	919.6	924.2	928.8	933.4	938.1	942.7	947.3
32.5°	895.9	909.8	923.8	937.7	942.9	948.0	953.2	958.4	963.5	968.7	973.9
35°	913.4	928.7	944.1	959.5	965.3	971.1	976.9	982.7	988.6	994.4	1000.2
37.5°	930.1	946.8	963.5	980.2	986.7	993.2	999.6	1006.1	1012.6	1019.1	1025.5
40°	946.3	964.2	982.1	1000.0	1007.2	1014.5	1021.7	1029.0	1036.2	1043.5	1050.7
42.5°	962.4	981.8	1001.3	1020.7	1028.6	1036.5	1044.4	1052.3	1060.3	1068.2	1076.1
45°	976.9	997.8	1018.6	1039.5	1048.3	1057.1	1065.9	1074.7	1083.4	1092.2	1101.0
47.5°	992.8	1015.3	1037.8	1060.3	1069.7	1079.2	1088.6	1098.0	1107.5	1116.9	1126.3
50°	1005.6	1029.7	1053.9	1078.0	1088.2	1098.4	1108.6	1118.8	1129.1	1139.3	1149.5
52.5°	1017.7	1043.8	1069.8	1095.8	1106.8	1117.8	1128.7	1139.7	1150.7	1161.7	1172.6
55°	1029.6	1057.3	1084.9	1112.6	1124.1	1135.7	1147.2	1158.7	1170.3	1181.8	1193.3
57.5°	1038.9	1068.1	1097.3	1126.5	1138.7	1150.9	1163.0	1175.2	1187.4	1199.6	1211.7
60°	1046.7	1077.3	1107.8	1138.3	1150.9	1163.5	1176.2	1188.8	1201.4	1214.0	1226.7
62.5°	1051.0	1082.8	1114.5	1146.2	1159.3	1172.3	1185.4	1198.5	1211.5	1224.6	1237.7
65°	1053.6	1086.5	1119.3	1152.1	1165.3	1178.5	1191.6	1204.8	1218.0	1231.2	1244.3
67.5°	1053.6	1087.1	1120.6	1154.1	1167.4	1180.7	1194.0	1207.3	1220.5	1233.8	1247.1
70°	1049.1	1083.1	1117.2	1151.2	1164.6	1178.0	1191.4	1204.8	1218.1	1231.5	1244.9
72.5°	1039.5	1074.1	1108.7	1143.3	1156.7	1170.1	1183.5	1196.9	1210.2	1223.6	1237.0
75°	1026.0	1060.8	1095.6	1130.4	1143.7	1157.0	1170.3	1183.6	1196.8	1210.1	1223.4
77.5°	1006.5	1041.2	1075.9	1110.6	1123.8	1137.0	1150.1	1163.3	1176.5	1189.7	1202.8
80°	983.5	1018.0	1052.4	1086.9	1100.0	1113.0	1126.1	1139.2	1152.2	1165.3	1178.4
82.5°	956.8	990.7	1024.5	1058.3	1071.3	1084.2	1097.2	1110.1	1123.1	1136.0	1149.0
85°	929.5	962.8	996.2	1029.6	1042.2	1054.9	1067.5	1080.1	1092.8	1105.4	1118.0
87.5°	899.2	931.8	964.4	997.0	1009.5	1022.0	1034.6	1047.1	1059.6	1072.1	1084.7
90°	870.2	901.9	933.7	965.4	977.7	990.0	1002.3	1014.6	1026.9	1039.2	1051.5
92.5°	846.8	877.8	908.7	939.7	951.6	963.4	975.3	987.1	999.0	1010.8	1022.7
95°	826.4	857.0	887.5	918.0	929.2	940.4	951.6	962.8	974.0	985.2	996.4
97.5°	802.0	831.5	860.9	890.3	901.5	912.7	923.9	935.1	946.3	957.5	968.7
100°	780.3	809.1	837.8	866.6	877.4	888.1	898.9	909.6	920.4	931.1	941.9
102.5°	757.9	786.2	814.6	842.9	853.3	863.7	874.2	884.6	895.0	905.4	915.9
105°	734.5	762.4	790.3	818.2	828.4	838.6	848.8	859.0	869.3	879.5	889.7
107.5°	710.1	737.3	764.4	791.5	801.6	811.7	821.8	831.9	842.0	852.1	862.2
110°	685.1	711.7	738.2	764.8	774.7	784.6	794.4	804.3	814.2	824.1	833.9



TEST NUMBER: P201354

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-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°	657.5	683.4	709.3	735.2	744.7	754.3	763.8	773.4	782.9	792.5	802.0
115°	629.1	654.6	680.0	705.5	714.7	723.9	733.2	742.4	751.6	760.8	770.1
117.5°	599.1	623.7	648.3	672.9	681.9	690.9	699.9	708.9	717.9	726.9	735.9
120°	568.5	592.1	615.7	639.3	648.1	656.9	665.7	674.5	683.2	692.0	700.8
122.5°	536.5	559.3	582.0	604.7	613.2	621.6	630.1	638.5	647.0	655.4	663.9
125°	503.0	524.7	546.5	568.2	576.4	584.7	592.9	601.1	609.4	617.6	625.8
127.5°	467.0	488.2	509.4	530.6	538.5	546.4	554.3	562.2	570.2	578.1	586.0
130°	428.9	450.3	471.7	493.1	500.6	508.0	515.5	523.0	530.4	537.9	545.4
132.5°	389.9	411.1	432.3	453.5	460.8	468.0	475.3	482.5	489.8	497.0	504.3
135°	350.8	371.5	392.3	413.0	419.9	426.8	433.8	440.7	447.6	454.5	461.5
137.5°	310.6	330.0	349.3	368.6	375.4	382.2	389.0	395.8	402.6	409.4	416.2
140°	268.5	285.7	303.0	320.2	327.3	334.5	341.6	348.7	355.9	363.0	370.1
142.5°	228.2	243.4	258.5	273.7	281.2	288.6	296.1	303.6	311.0	318.5	326.0
145°	190.0	203.1	216.1	229.2	237.1	245.0	252.9	260.8	268.8	276.7	284.6
147.5°	155.8	166.7	177.7	188.7	196.7	204.7	212.8	220.8	228.8	236.8	244.9
150°	124.2	133.5	142.9	152.2	159.7	167.1	174.6	182.1	189.5	197.0	204.5
152.5°	95.5	103.2	110.9	118.6	125.5	132.4	139.3	146.2	153.2	160.1	167.0
155°	68.9	74.9	81.0	87.0	93.4	99.7	106.1	112.5	118.8	125.2	131.6
157.5°	46.8	51.3	55.8	60.3	65.7	71.1	76.4	81.8	87.2	92.6	97.9
160°	28.0	30.9	33.7	36.6	40.9	45.2	49.4	53.7	58.0	62.3	66.5
162.5°	13.9	15.5	17.2	18.8	21.8	24.7	27.7	30.7	33.6	36.6	39.6
165°	4.9	5.6	6.2	6.9	8.7	10.4	12.2	13.9	15.7	17.4	19.2
167.5°	0.7	0.8	0.9	1.0	1.7	2.3	3.0	3.6	4.3	4.9	5.6
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: P201354

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	667.0	667.0
2.5°	677.4	676.9
5°	697.5	697.6
7.5°	714.3	714.4
10°	732.9	733.2
12.5°	755.0	755.9
15°	781.7	783.6
17.5°	810.1	812.2
20°	840.3	842.9
22.5°	869.4	872.5
25°	896.8	900.2
27.5°	924.9	928.8
30°	951.9	956.5
32.5°	979.0	984.2
35°	1006.0	1011.8
37.5°	1032.0	1038.5
40°	1058.0	1065.2
42.5°	1084.0	1091.9
45°	1109.8	1118.6
47.5°	1135.8	1145.2
50°	1159.7	1169.9
52.5°	1183.6	1194.6
55°	1204.9	1216.4
57.5°	1223.9	1236.1
60°	1239.3	1251.9
62.5°	1250.7	1263.8
65°	1257.5	1270.7
67.5°	1260.4	1273.7
70°	1258.3	1271.7
72.5°	1250.4	1263.8
75°	1236.7	1250.0
77.5°	1216.0	1229.2
80°	1191.4	1204.5
82.5°	1161.9	1174.9
85°	1130.7	1143.3
87.5°	1097.2	1109.7
90°	1063.8	1076.1
92.5°	1034.5	1046.4
95°	1007.6	1018.8
97.5°	979.9	991.1
100°	952.6	963.4
102.5°	926.3	936.7
105°	899.9	910.1
107.5°	872.3	882.4
110°	843.8	853.7



TEST NUMBER: P201354

CATALOG NUMBER: 4LBLED-LD4-6-ASYMW-UNV-L835-CD2-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
112.5°	811.6	821.1
115°	779.3	788.5
117.5°	744.9	753.9
120°	709.6	718.4
122.5°	672.3	680.8
125°	634.1	642.3
127.5°	593.9	601.8
130°	552.8	560.3
132.5°	511.5	518.8
135°	468.4	475.3
137.5°	423.0	429.8
140°	377.3	384.4
142.5°	333.4	340.9
145°	292.5	300.4
147.5°	252.9	260.9
150°	211.9	219.4
152.5°	173.9	180.8
155°	137.9	144.3
157.5°	103.3	108.7
160°	70.8	75.1
162.5°	42.5	45.5
165°	20.9	22.7
167.5°	6.2	6.9
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)