

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P1213833

Luminaire Tested: 4SNLED-LD5-58SL-LW-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213833
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33520)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-58SL-LW-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

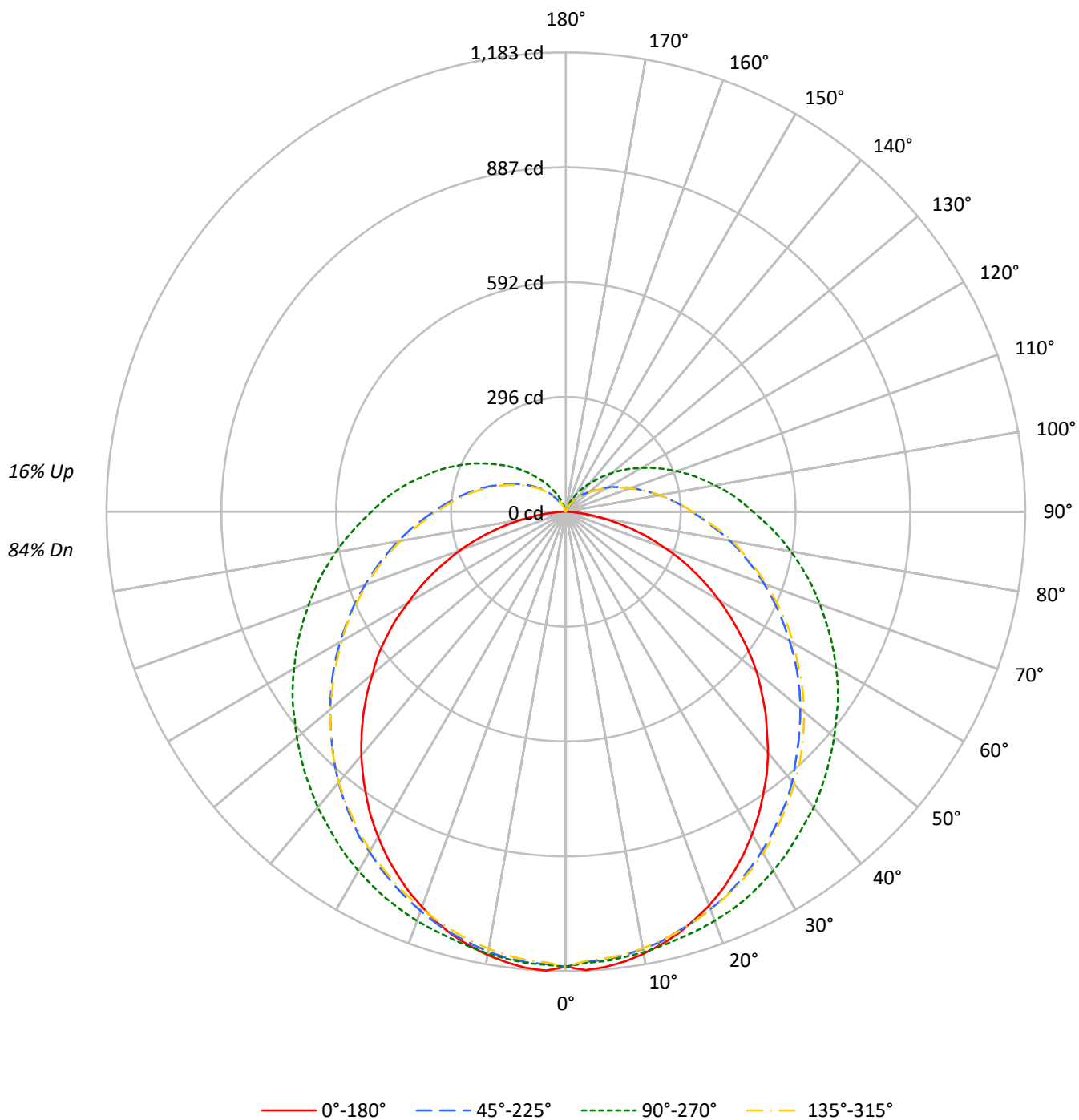
Lumens per Lamp: N/A
Luminaire Lumens: 5090.0 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 55
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: 24 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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87
1	102	96	91	86	98	92	87	83	85	81	77	78	75	72	72	70	67
2	92	82	74	68	87	79	72	66	73	67	62	67	62	58	62	58	54
3	83	71	62	55	79	69	60	54	63	56	51	58	52	48	54	49	45
4	76	63	53	46	72	60	52	45	56	48	42	51	45	40	47	42	38
5	69	56	46	39	66	54	45	38	50	42	36	46	39	34	42	37	33
6	64	50	41	34	61	48	39	33	45	37	31	41	35	30	38	33	28
7	59	45	36	30	56	43	35	29	40	33	28	38	31	26	35	29	25
8	55	41	32	26	52	40	31	26	37	30	24	34	28	23	32	26	22
9	51	37	29	23	49	36	28	23	34	27	22	32	25	21	30	24	20
10	48	34	26	21	46	33	26	21	31	24	20	29	23	19	27	22	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9468	9468	9468	9468
5°	9518	9124	9538	9162
10°	9430	8865	9460	8893
15°	9320	8643	9361	8652
20°	9174	8481	9205	8481
25°	8993	8337	9047	8327
30°	8790	8189	8858	8189
35°	8554	8052	8650	8061
40°	8321	7971	8423	7971
45°	8053	7886	8176	7897
50°	7774	7837	7878	7857
55°	7384	7844	7617	7878
60°	6973	7868	7200	7916
65°	6510	7946	6799	8026
70°	5862	8093	6319	8208
75°	5114	8357	5598	8518
80°	3957	8750	4495	8952
85°	2364	9378	2958	9637

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 270°

Vertical Angle: 90°

Luminance: 10775 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.0	2.2
10°-20°	319.0	6.3
20°-30°	489.0	9.6
30°-40°	603.3	11.9
40°-50°	654.6	12.9
50°-60°	645.2	12.7
60°-70°	583.3	11.5
70°-80°	485.9	9.5
80°-90°	376.4	7.4
90°-100°	285.4	5.6
100°-110°	211.2	4.2
110°-120°	146.9	2.9
120°-130°	93.7	1.8
130°-140°	52.6	1.0
140°-150°	24.0	0.5
150°-160°	7.4	0.1
160°-170°	0.9	0.0
170°-180°	0.0	0.0
0°-30°	919.0	18.1
0°-40°	1522.3	29.9
0°-60°	2822.0	55.4
0°-90°	4267.6	83.8
90°-120°	643.6	12.6
90°-150°	814.0	16.0
90°-180°	822.0	16.1
0°-180°	5090.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1172	1172	1172	1172	1172	
5°	1176	1162	1179	1167	1176	112
15°	1123	1137	1128	1138	1123	317
25°	1023	1099	1029	1097	1023	471
35°	886	1031	896	1032	886	555
45°	727	949	738	950	727	560
55°	548	855	565	859	548	490
65°	363	750	379	758	363	360
75°	183	643	200	655	183	194
85°	35	535	43	550	35	42
90°	1	482	2	500	1	2
95°	1	438	1	458	1	1
105°	1	347	1	368	1	1
115°	1	264	1	288	1	1
125°	1	190	1	211	1	1
135°	1	124	1	146	1	1
145°	1	72	1	88	1	1
155°	1	30	1	41	1	1
165°	1	5	1	7	1	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6
2.5°	1181.5	1181.5	1180.2	1177.7	1179.0	1182.7	1180.2	1174.0	1170.3	1160.4	1162.9
5°	1176.5	1176.5	1175.3	1172.8	1174.0	1179.0	1176.5	1171.6	1166.6	1158.0	1161.7
7.5°	1167.9	1167.9	1166.6	1164.2	1166.6	1171.6	1169.1	1164.2	1160.4	1151.8	1155.5
10°	1155.5	1156.7	1155.5	1151.8	1156.7	1161.7	1160.4	1154.3	1150.6	1143.1	1146.9
12.5°	1140.7	1141.9	1140.7	1139.4	1141.9	1149.3	1146.9	1141.9	1139.4	1133.3	1137.0
15°	1123.4	1124.6	1122.1	1122.1	1124.6	1132.0	1132.0	1127.1	1124.6	1118.4	1125.8
17.5°	1101.1	1102.4	1101.1	1101.1	1103.6	1111.0	1112.2	1109.8	1107.3	1104.8	1112.2
20°	1078.9	1077.6	1077.6	1076.4	1081.4	1092.5	1091.2	1091.2	1088.8	1088.8	1097.4
22.5°	1052.9	1052.9	1051.7	1051.7	1057.9	1067.8	1067.8	1070.2	1067.8	1072.7	1080.1
25°	1023.3	1024.5	1023.3	1025.7	1030.7	1041.8	1043.0	1046.7	1048.0	1052.9	1061.6
27.5°	992.4	993.6	992.4	994.8	1003.5	1012.1	1018.3	1023.3	1024.5	1031.9	1043.0
30°	959.0	959.0	960.2	962.7	972.6	986.2	991.1	997.3	997.3	1009.7	1020.8
32.5°	924.4	924.4	924.4	929.3	940.5	956.5	962.7	970.1	972.6	985.0	997.3
35°	886.1	887.3	887.3	891.0	905.9	921.9	930.6	939.2	944.2	959.0	971.4
37.5°	850.3	852.7	849.0	854.0	875.0	888.6	898.4	907.1	915.8	935.5	945.4
40°	809.5	811.9	810.7	820.6	837.9	855.2	866.3	875.0	887.3	907.1	918.2
42.5°	766.2	768.7	771.2	782.3	800.8	818.1	831.7	842.8	857.7	875.0	893.5
45°	726.7	726.7	730.4	744.0	763.7	782.3	798.3	810.7	828.0	846.5	865.1
47.5°	682.2	683.4	688.4	704.4	725.4	747.7	762.5	778.6	797.1	816.9	837.9
50°	641.4	641.4	648.8	666.1	685.9	710.6	726.7	745.2	765.0	788.5	809.5
52.5°	594.4	596.9	608.0	624.1	650.0	672.3	690.8	710.6	734.1	758.8	782.3
55°	547.5	552.4	561.1	583.3	610.5	631.5	653.8	678.5	700.7	727.9	755.1
57.5°	501.7	505.5	519.0	541.3	569.7	595.7	619.2	642.6	669.8	697.0	725.4
60°	454.8	459.7	475.8	498.0	528.9	556.1	583.3	608.0	636.5	664.9	694.5
62.5°	410.3	414.0	432.5	458.5	489.4	519.0	546.2	575.9	606.8	634.0	663.6
65°	363.3	369.5	390.5	414.0	449.8	479.5	510.4	542.5	574.7	604.3	632.7
67.5°	320.1	323.8	346.0	373.2	409.1	442.4	474.6	509.2	542.5	573.4	601.9
70°	269.4	281.8	304.0	332.4	370.7	405.4	440.0	475.8	511.6	543.8	571.0
72.5°	227.4	237.3	262.0	292.9	330.0	370.7	406.6	444.9	480.7	514.1	542.5
75°	182.9	192.8	221.2	255.8	294.1	337.4	374.5	414.0	451.1	484.4	514.1
77.5°	139.6	152.0	182.9	218.7	260.8	305.3	343.6	383.1	421.4	457.3	486.9
80°	100.1	113.7	147.1	187.8	228.6	273.1	315.1	354.7	393.0	428.8	459.7
82.5°	64.3	79.1	114.9	155.7	199.0	243.5	286.7	326.3	364.6	400.4	432.5
85°	34.6	50.7	87.7	128.5	171.8	216.3	259.5	301.5	338.6	372.0	406.6
87.5°	9.9	29.7	65.5	106.3	150.8	191.6	233.6	275.6	312.7	348.5	379.4
90°	1.2	17.3	49.4	87.7	131.0	170.5	212.6	252.1	289.2	325.0	355.9
92.5°	1.2	11.1	38.3	72.9	112.5	153.2	195.3	233.6	268.2	304.0	334.9
95°	1.2	8.7	30.9	61.8	98.9	137.2	176.7	213.8	249.6	283.0	313.9
97.5°	1.2	6.2	24.7	53.1	86.5	122.3	160.7	197.7	232.3	264.5	292.9
100°	1.2	4.9	19.8	45.7	75.4	110.0	144.6	180.4	213.8	244.7	274.4
102.5°	1.2	3.7	17.3	38.3	66.7	97.6	131.0	164.4	196.5	226.2	255.8
105°	1.2	3.7	14.8	33.4	59.3	87.7	118.6	150.8	180.4	208.9	236.0
107.5°	1.2	2.5	12.4	28.4	51.9	79.1	107.5	138.4	165.6	192.8	218.7
110°	1.2	2.5	9.9	26.0	45.7	70.4	97.6	126.1	152.0	178.0	202.7

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.2	2.5	8.7	22.2	39.5	63.0	87.7	113.7	138.4	164.4	186.6
115°	1.2	2.5	7.4	19.8	37.1	54.4	79.1	102.6	127.3	150.8	171.8
117.5°	1.2	2.5	6.2	16.1	32.1	49.4	69.2	92.7	114.9	137.2	157.0
120°	1.2	2.5	4.9	14.8	28.4	44.5	61.8	82.8	103.8	124.8	145.8
122.5°	1.2	1.2	4.9	12.4	24.7	39.5	56.8	72.9	92.7	112.5	131.0
125°	1.2	1.2	4.9	11.1	21.0	35.8	50.7	65.5	82.8	100.1	116.2
127.5°	1.2	1.2	3.7	8.7	18.5	30.9	44.5	60.6	72.9	89.0	105.0
130°	1.2	1.2	3.7	7.4	16.1	26.0	39.5	53.1	68.0	79.1	92.7
132.5°	1.2	1.2	3.7	6.2	12.4	21.0	33.4	45.7	59.3	71.7	82.8
135°	1.2	1.2	2.5	4.9	9.9	17.3	27.2	38.3	51.9	64.3	75.4
137.5°	1.2	1.2	2.5	4.9	7.4	14.8	21.0	30.9	43.3	54.4	65.5
140°	1.2	1.2	2.5	3.7	6.2	11.1	17.3	24.7	34.6	44.5	56.8
142.5°	1.2	1.2	1.2	3.7	4.9	8.7	13.6	19.8	27.2	35.8	45.7
145°	1.2	1.2	1.2	3.7	4.9	6.2	11.1	16.1	21.0	27.2	35.8
147.5°	1.2	1.2	1.2	2.5	3.7	4.9	8.7	12.4	16.1	21.0	26.0
150°	1.2	1.2	1.2	2.5	3.7	4.9	6.2	8.7	12.4	17.3	21.0
152.5°	1.2	1.2	1.2	2.5	2.5	3.7	4.9	6.2	8.7	12.4	14.8
155°	1.2	1.2	1.2	1.2	2.5	3.7	4.9	4.9	6.2	8.7	11.1
157.5°	1.2	1.2	1.2	1.2	2.5	2.5	3.7	3.7	4.9	4.9	7.4
160°	1.2	1.2	1.2	1.2	1.2	2.5	2.5	3.7	3.7	3.7	3.7
162.5°	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5	3.7	3.7
165°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	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

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6
2.5°	1162.9	1164.2	1167.9	1167.9	1165.4	1165.4	1164.2	1162.9	1164.2	1166.6	1166.6
5°	1160.4	1161.7	1165.4	1166.6	1164.2	1162.9	1162.9	1161.7	1162.9	1165.4	1165.4
7.5°	1155.5	1156.7	1160.4	1161.7	1159.2	1159.2	1158.0	1156.7	1159.2	1160.4	1160.4
10°	1148.1	1149.3	1154.3	1155.5	1154.3	1153.0	1153.0	1151.8	1153.0	1155.5	1155.5
12.5°	1138.2	1140.7	1146.9	1146.9	1146.9	1145.6	1145.6	1144.4	1145.6	1148.1	1146.9
15°	1127.1	1132.0	1137.0	1139.4	1139.4	1139.4	1138.2	1137.0	1139.4	1140.7	1139.4
17.5°	1114.7	1120.9	1128.3	1130.8	1130.8	1132.0	1130.8	1129.6	1132.0	1132.0	1130.8
20°	1102.4	1108.5	1116.0	1118.4	1120.9	1122.1	1122.1	1120.9	1122.1	1123.4	1122.1
22.5°	1086.3	1093.7	1102.4	1106.1	1108.5	1111.0	1111.0	1111.0	1112.2	1113.5	1111.0
25°	1069.0	1077.6	1087.5	1091.2	1096.2	1097.4	1098.7	1098.7	1099.9	1101.1	1097.4
27.5°	1050.5	1060.3	1070.2	1076.4	1080.1	1082.6	1082.6	1083.8	1085.1	1086.3	1082.6
30°	1028.2	1043.0	1051.7	1056.6	1061.6	1065.3	1066.5	1067.8	1069.0	1070.2	1066.5
32.5°	1008.4	1020.8	1031.9	1038.1	1044.3	1049.2	1050.5	1050.5	1052.9	1052.9	1049.2
35°	985.0	999.8	1010.9	1017.1	1024.5	1028.2	1030.7	1030.7	1033.2	1033.2	1029.4
37.5°	961.5	976.3	988.7	996.1	1004.7	1009.7	1010.9	1010.9	1013.4	1013.4	1008.4
40°	936.8	952.8	966.4	975.1	982.5	988.7	989.9	993.6	993.6	992.4	987.4
42.5°	912.0	926.9	941.7	951.6	961.5	967.7	970.1	971.4	971.4	970.1	966.4
45°	884.9	902.2	915.8	928.1	938.0	944.2	947.9	949.1	949.1	946.6	942.9
47.5°	858.9	876.2	889.8	903.4	913.3	920.7	924.4	925.6	924.4	923.2	919.5
50°	831.7	851.5	865.1	878.7	888.6	894.7	900.9	902.2	900.9	899.7	892.3
52.5°	803.3	824.3	839.1	852.7	863.8	871.3	876.2	877.4	877.4	875.0	870.0
55°	774.9	793.4	811.9	826.8	839.1	846.5	852.7	855.2	852.7	850.3	844.1
57.5°	748.9	766.2	784.8	800.8	813.2	823.1	828.0	830.5	828.0	824.3	818.1
60°	718.0	736.6	757.6	772.4	786.0	795.9	798.3	803.3	800.8	797.1	790.9
62.5°	688.4	710.6	729.1	747.7	758.8	769.9	774.9	777.3	774.9	771.2	765.0
65°	657.5	682.2	700.7	719.3	731.6	742.7	748.9	750.1	747.7	744.0	737.8
67.5°	629.0	652.5	672.3	692.1	703.2	714.3	720.5	723.0	720.5	715.5	709.4
70°	600.6	624.1	647.6	662.4	676.0	688.4	692.1	695.8	693.3	688.4	680.9
72.5°	572.2	596.9	620.4	635.2	650.0	661.2	666.1	669.8	667.3	662.4	653.8
75°	542.5	568.5	592.0	608.0	622.9	634.0	638.9	642.6	640.2	635.2	625.3
77.5°	515.3	541.3	563.5	580.8	595.7	605.6	614.2	615.4	613.0	608.0	598.1
80°	486.9	512.9	536.4	553.7	568.5	578.4	584.5	588.3	585.8	580.8	571.0
82.5°	462.2	485.7	509.2	526.5	541.3	553.7	558.6	562.3	561.1	553.7	546.2
85°	435.0	462.2	480.7	499.3	514.1	526.5	530.2	535.1	533.9	527.7	517.8
87.5°	407.8	435.0	457.3	475.8	489.4	499.3	505.5	507.9	506.7	500.5	489.4
90°	385.6	410.3	432.5	452.3	463.4	474.6	480.7	482.0	482.0	474.6	465.9
92.5°	364.6	388.1	410.3	428.8	442.4	452.3	457.3	459.7	458.5	452.3	442.4
95°	341.1	367.0	388.1	406.6	420.2	430.1	435.0	437.5	436.2	430.1	420.2
97.5°	321.3	344.8	365.8	383.1	396.7	406.6	411.5	414.0	414.0	407.8	397.9
100°	301.5	325.0	344.8	362.1	374.5	384.3	389.3	390.5	389.3	384.3	374.5
102.5°	281.8	304.0	323.8	339.9	353.4	362.1	367.0	368.3	368.3	362.1	352.2
105°	262.0	284.2	302.8	320.1	331.2	339.9	343.6	347.3	346.0	341.1	331.2
107.5°	243.5	265.7	283.0	299.1	310.2	318.8	322.6	326.3	325.0	320.1	310.2
110°	226.2	247.2	263.2	279.3	289.2	297.8	304.0	305.3	302.8	297.8	289.2

TEST NUMBER: P1213833

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	210.1	228.6	244.7	259.5	270.6	276.8	281.8	284.2	281.8	276.8	270.6
115°	192.8	211.3	227.4	241.0	250.9	258.3	262.0	264.5	262.0	257.1	250.9
117.5°	176.7	194.0	210.1	223.7	232.3	238.5	242.2	244.7	242.2	238.5	232.3
120°	163.1	178.0	192.8	205.1	215.0	220.0	223.7	226.2	224.9	220.0	213.8
122.5°	147.1	163.1	176.7	189.1	197.7	202.7	205.1	207.6	206.4	202.7	196.5
125°	133.5	147.1	160.7	171.8	180.4	185.4	187.8	190.3	189.1	185.4	178.0
127.5°	118.6	133.5	144.6	155.7	161.9	169.3	170.5	173.0	171.8	168.1	161.9
130°	107.5	118.6	129.8	139.6	147.1	152.0	154.5	155.7	153.2	150.8	144.6
132.5°	93.9	106.3	116.2	124.8	129.8	134.7	137.2	138.4	138.4	134.7	129.8
135°	84.0	92.7	101.3	110.0	114.9	119.9	122.3	123.6	122.3	119.9	114.9
137.5°	75.4	82.8	89.0	96.4	102.6	105.0	107.5	107.5	106.3	105.0	101.3
140°	65.5	74.1	80.3	85.3	90.2	91.5	93.9	93.9	92.7	91.5	89.0
142.5°	55.6	63.0	69.2	75.4	79.1	81.6	82.8	84.0	82.8	81.6	77.9
145°	44.5	53.1	59.3	63.0	68.0	69.2	70.4	71.7	70.4	69.2	65.5
147.5°	34.6	42.0	48.2	53.1	56.8	58.1	59.3	60.6	59.3	56.8	55.6
150°	24.7	30.9	38.3	43.3	45.7	48.2	48.2	48.2	49.4	47.0	44.5
152.5°	19.8	22.2	27.2	32.1	35.8	37.1	38.3	38.3	37.1	37.1	34.6
155°	13.6	16.1	19.8	23.5	27.2	28.4	29.7	29.7	28.4	28.4	27.2
157.5°	8.7	11.1	13.6	16.1	19.8	21.0	22.2	22.2	22.2	21.0	19.8
160°	4.9	6.2	7.4	9.9	12.4	13.6	14.8	14.8	14.8	14.8	13.6
162.5°	3.7	3.7	3.7	4.9	6.2	7.4	8.7	8.7	8.7	8.7	7.4
165°	2.5	2.5	2.5	2.5	2.5	3.7	4.9	4.9	4.9	4.9	4.9
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: P1213833

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6
2.5°	1165.4	1165.4	1166.6	1164.2	1156.7	1158.0	1158.0	1162.9	1165.4	1166.6	1172.8
5°	1162.9	1162.9	1165.4	1161.7	1155.5	1155.5	1155.5	1160.4	1161.7	1164.2	1169.1
7.5°	1159.2	1159.2	1160.4	1156.7	1149.3	1149.3	1148.1	1153.0	1155.5	1156.7	1161.7
10°	1153.0	1153.0	1154.3	1150.6	1141.9	1141.9	1140.7	1144.4	1145.6	1148.1	1151.8
12.5°	1144.4	1144.4	1144.4	1140.7	1132.0	1130.8	1129.6	1133.3	1133.3	1134.5	1138.2
15°	1137.0	1134.5	1134.5	1130.8	1122.1	1119.7	1117.2	1118.4	1120.9	1119.7	1122.1
17.5°	1128.3	1125.8	1123.4	1119.7	1108.5	1104.8	1102.4	1103.6	1102.4	1101.1	1103.6
20°	1118.4	1114.7	1113.5	1107.3	1096.2	1090.0	1085.1	1082.6	1083.8	1080.1	1081.4
22.5°	1107.3	1102.4	1099.9	1092.5	1081.4	1073.9	1067.8	1062.8	1061.6	1056.6	1057.9
25°	1093.7	1087.5	1083.8	1077.6	1065.3	1056.6	1049.2	1041.8	1038.1	1031.9	1030.7
27.5°	1077.6	1071.5	1066.5	1060.3	1048.0	1036.9	1028.2	1018.3	1013.4	1006.0	1002.3
30°	1061.6	1054.2	1046.7	1041.8	1028.2	1015.9	1002.3	993.6	986.2	977.5	971.4
32.5°	1041.8	1034.4	1027.0	1019.6	1007.2	992.4	981.3	967.7	959.0	949.1	941.7
35°	1022.0	1012.1	1004.7	994.8	983.7	966.4	952.8	939.2	928.1	917.0	908.3
37.5°	999.8	992.4	981.3	972.6	959.0	941.7	926.9	909.6	899.7	884.9	873.7
40°	978.8	970.1	959.0	947.9	934.3	914.5	898.4	878.7	867.6	850.3	839.1
42.5°	957.8	945.4	934.3	921.9	907.1	888.6	868.8	849.0	834.2	818.1	802.1
45°	934.3	920.7	907.1	893.5	878.7	860.1	839.1	818.1	799.6	784.8	765.0
47.5°	909.6	896.0	879.9	865.1	849.0	830.5	808.2	786.0	766.2	748.9	727.9
50°	884.9	871.3	854.0	837.9	819.4	800.8	777.3	751.4	730.4	708.1	689.6
52.5°	858.9	845.3	829.2	808.2	788.5	769.9	745.2	718.0	694.5	676.0	652.5
55°	833.0	819.4	800.8	779.8	760.0	736.6	713.1	685.9	659.9	637.7	614.2
57.5°	805.8	793.4	772.4	755.1	730.4	705.7	680.9	655.0	626.6	600.6	573.4
60°	778.6	765.0	745.2	724.2	699.5	674.8	648.8	620.4	590.7	562.3	537.6
62.5°	753.9	736.6	718.0	695.8	669.8	646.3	616.7	585.8	556.1	526.5	496.8
65°	725.4	706.9	689.6	667.3	640.2	613.0	583.3	552.4	520.3	488.2	458.5
67.5°	697.0	678.5	659.9	637.7	609.3	580.8	549.9	519.0	483.2	452.3	417.7
70°	668.6	653.8	630.3	606.8	580.8	549.9	519.0	485.7	448.6	415.2	379.4
72.5°	640.2	625.3	601.9	577.1	552.4	520.3	486.9	453.6	418.9	380.6	342.3
75°	613.0	594.4	573.4	549.9	524.0	490.6	457.3	422.7	381.9	346.0	306.5
77.5°	587.0	569.7	548.7	522.8	494.3	462.2	427.6	391.8	351.0	312.7	269.4
80°	558.6	541.3	520.3	494.3	465.9	435.0	397.9	360.9	321.3	279.3	234.8
82.5°	531.4	515.3	491.9	468.4	437.5	406.6	369.5	332.4	290.4	249.6	206.4
85°	503.0	486.9	464.7	440.0	410.3	376.9	342.3	305.3	263.2	221.2	178.0
87.5°	478.3	459.7	437.5	412.8	383.1	351.0	317.6	278.1	237.3	196.5	152.0
90°	452.3	435.0	412.8	388.1	358.4	326.3	291.7	254.6	215.0	173.0	131.0
92.5°	430.1	411.5	390.5	365.8	336.1	305.3	270.6	233.6	195.3	154.5	113.7
95°	407.8	389.3	369.5	344.8	315.1	284.2	249.6	213.8	176.7	137.2	98.9
97.5°	383.1	367.0	347.3	323.8	294.1	264.5	231.1	196.5	160.7	122.3	86.5
100°	363.3	344.8	326.3	301.5	274.4	245.9	212.6	179.2	144.6	108.8	75.4
102.5°	341.1	323.8	305.3	281.8	254.6	226.2	195.3	163.1	131.0	97.6	65.5
105°	320.1	304.0	284.2	262.0	236.0	208.9	179.2	149.5	118.6	86.5	58.1
107.5°	299.1	283.0	264.5	243.5	218.7	191.6	164.4	134.7	106.3	77.9	51.9
110°	278.1	263.2	245.9	224.9	201.4	176.7	150.8	123.6	95.2	69.2	45.7

TEST NUMBER: P1213833

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	259.5	244.7	227.4	207.6	185.4	161.9	137.2	111.2	85.3	61.8	39.5
115°	241.0	227.4	210.1	192.8	170.5	148.3	124.8	100.1	76.6	55.6	34.6
117.5°	222.4	208.9	192.8	175.5	155.7	134.7	112.5	89.0	69.2	49.4	30.9
120°	203.9	191.6	176.7	160.7	143.4	122.3	100.1	80.3	61.8	43.3	27.2
122.5°	186.6	175.5	161.9	147.1	128.5	108.8	90.2	72.9	55.6	38.3	22.2
125°	170.5	159.4	147.1	132.2	114.9	97.6	81.6	65.5	48.2	33.4	18.5
127.5°	154.5	143.4	131.0	117.4	103.8	87.7	72.9	58.1	43.3	29.7	16.1
130°	138.4	128.5	117.4	106.3	92.7	77.9	65.5	50.7	37.1	23.5	13.6
132.5°	122.3	114.9	105.0	93.9	81.6	70.4	56.8	44.5	32.1	21.0	12.4
135°	108.8	101.3	92.7	82.8	72.9	61.8	49.4	38.3	27.2	17.3	9.9
137.5°	96.4	90.2	81.6	72.9	64.3	53.1	43.3	32.1	22.2	14.8	7.4
140°	85.3	79.1	71.7	63.0	55.6	45.7	35.8	26.0	19.8	12.4	6.2
142.5°	74.1	68.0	61.8	54.4	47.0	38.3	29.7	22.2	16.1	9.9	6.2
145°	63.0	58.1	51.9	45.7	38.3	30.9	24.7	18.5	12.4	7.4	4.9
147.5°	51.9	48.2	42.0	37.1	30.9	24.7	19.8	14.8	9.9	6.2	3.7
150°	42.0	38.3	33.4	28.4	24.7	19.8	16.1	11.1	7.4	6.2	3.7
152.5°	32.1	29.7	26.0	23.5	19.8	14.8	11.1	8.7	6.2	4.9	2.5
155°	26.0	23.5	21.0	17.3	14.8	11.1	8.7	6.2	4.9	3.7	2.5
157.5°	18.5	17.3	14.8	12.4	9.9	7.4	6.2	6.2	3.7	2.5	1.2
160°	12.4	11.1	9.9	7.4	6.2	6.2	4.9	3.7	2.5	2.5	1.2
162.5°	7.4	6.2	6.2	6.2	4.9	4.9	3.7	2.5	2.5	1.2	1.2
165°	4.9	4.9	4.9	3.7	3.7	3.7	2.5	1.2	1.2	1.2	1.2
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: P1213833

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6
2.5°	1172.8	1169.1	1174.0	1182.7	1183.9	1182.7	1180.2	1183.9	1188.9	1187.6	1179.0
5°	1170.3	1165.4	1170.3	1179.0	1179.0	1177.7	1176.5	1180.2	1185.2	1183.9	1176.5
7.5°	1162.9	1158.0	1162.9	1170.3	1171.6	1169.1	1169.1	1172.8	1177.7	1176.5	1170.3
10°	1153.0	1148.1	1150.6	1159.2	1161.7	1159.2	1159.2	1162.9	1169.1	1167.9	1160.4
12.5°	1138.2	1134.5	1137.0	1144.4	1146.9	1145.6	1144.4	1149.3	1155.5	1155.5	1148.1
15°	1122.1	1117.2	1119.7	1128.3	1129.6	1127.1	1128.3	1132.0	1139.4	1139.4	1133.3
17.5°	1103.6	1097.4	1101.1	1107.3	1108.5	1108.5	1108.5	1113.5	1122.1	1120.9	1116.0
20°	1082.6	1073.9	1076.4	1082.6	1085.1	1085.1	1085.1	1093.7	1099.9	1099.9	1094.9
22.5°	1057.9	1051.7	1051.7	1057.9	1061.6	1060.3	1060.3	1067.8	1076.4	1075.2	1075.2
25°	1029.4	1024.5	1022.0	1029.4	1030.7	1031.9	1034.4	1041.8	1051.7	1051.7	1052.9
27.5°	999.8	994.8	993.6	999.8	1001.0	1002.3	1004.7	1013.4	1023.3	1024.5	1027.0
30°	971.4	963.9	961.5	966.4	968.9	970.1	970.1	983.7	992.4	996.1	1001.0
32.5°	938.0	930.6	924.4	933.1	934.3	936.8	938.0	951.6	961.5	967.7	975.1
35°	904.6	892.3	889.8	896.0	898.4	899.7	902.2	917.0	930.6	935.5	945.4
37.5°	867.6	858.9	851.5	857.7	860.1	861.4	868.8	882.4	896.0	903.4	913.3
40°	833.0	821.8	815.6	819.4	821.8	823.1	831.7	846.5	862.6	871.3	883.6
42.5°	794.6	779.8	774.9	778.6	779.8	783.5	790.9	810.7	826.8	839.1	849.0
45°	756.3	745.2	734.1	737.8	739.0	741.5	752.6	773.6	790.9	805.8	816.9
47.5°	716.8	703.2	692.1	694.5	699.5	700.7	713.1	737.8	753.9	769.9	784.8
50°	677.2	658.7	650.0	650.0	652.5	658.7	674.8	699.5	716.8	735.3	751.4
52.5°	636.5	619.2	609.3	610.5	613.0	620.4	635.2	659.9	679.7	699.5	719.3
55°	595.7	577.1	567.2	564.8	567.2	577.1	594.4	620.4	640.2	663.6	684.7
57.5°	554.9	532.6	524.0	520.3	522.8	535.1	552.4	579.6	604.3	626.6	651.3
60°	510.4	493.1	478.3	469.6	475.8	491.9	510.4	538.8	564.8	589.5	616.7
62.5°	472.1	449.8	433.8	425.1	431.3	444.9	470.9	498.0	526.5	554.9	582.1
65°	428.8	406.6	388.1	379.4	385.6	401.6	427.6	457.3	488.2	516.6	548.7
67.5°	386.8	363.3	341.1	332.4	339.9	357.2	385.6	418.9	452.3	482.0	516.6
70°	346.0	320.1	296.6	290.4	295.4	318.8	346.0	379.4	414.0	448.6	484.4
72.5°	309.0	276.8	252.1	244.7	250.9	276.8	307.7	342.3	379.4	416.5	454.8
75°	265.7	236.0	208.9	200.2	207.6	231.1	269.4	306.5	346.0	385.6	421.4
77.5°	231.1	196.5	168.1	154.5	166.8	196.5	233.6	273.1	313.9	354.7	395.5
80°	195.3	159.4	128.5	113.7	127.3	159.4	196.5	239.8	285.5	326.3	363.3
82.5°	163.1	124.8	92.7	76.6	91.5	127.3	168.1	211.3	255.8	296.6	339.9
85°	133.5	93.9	60.6	43.3	64.3	96.4	139.6	184.1	229.9	271.9	313.9
87.5°	108.8	70.4	37.1	18.5	39.5	75.4	116.2	160.7	206.4	248.4	287.9
90°	89.0	50.7	19.8	2.5	23.5	56.8	96.4	139.6	182.9	226.2	265.7
92.5°	72.9	38.3	11.1	1.2	14.8	45.7	82.8	123.6	165.6	207.6	245.9
95°	60.6	29.7	7.4	1.2	11.1	35.8	70.4	110.0	149.5	190.3	228.6
97.5°	51.9	24.7	6.2	1.2	8.7	30.9	60.6	97.6	135.9	174.3	211.3
100°	44.5	19.8	4.9	1.2	7.4	26.0	53.1	86.5	122.3	159.4	195.3
102.5°	38.3	16.1	3.7	1.2	6.2	22.2	47.0	77.9	110.0	145.8	180.4
105°	33.4	13.6	3.7	1.2	4.9	19.8	42.0	69.2	101.3	133.5	166.8
107.5°	28.4	11.1	2.5	1.2	3.7	16.1	37.1	63.0	91.5	122.3	153.2
110°	24.7	9.9	2.5	1.2	3.7	14.8	32.1	56.8	82.8	111.2	140.9

TEST NUMBER: P1213833

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	21.0	7.4	2.5	1.2	2.5	12.4	28.4	50.7	75.4	101.3	129.8
115°	18.5	6.2	1.2	1.2	2.5	11.1	26.0	45.7	68.0	92.7	118.6
117.5°	14.8	4.9	1.2	1.2	1.2	8.7	22.2	40.8	61.8	85.3	108.8
120°	12.4	4.9	1.2	1.2	1.2	7.4	19.8	35.8	55.6	76.6	98.9
122.5°	11.1	3.7	1.2	1.2	1.2	6.2	17.3	32.1	49.4	69.2	90.2
125°	9.9	3.7	1.2	1.2	1.2	4.9	14.8	28.4	44.5	61.8	81.6
127.5°	7.4	3.7	1.2	1.2	1.2	3.7	13.6	24.7	39.5	55.6	72.9
130°	6.2	2.5	1.2	1.2	1.2	3.7	11.1	22.2	34.6	49.4	65.5
132.5°	4.9	2.5	1.2	1.2	1.2	2.5	8.7	17.3	29.7	43.3	58.1
135°	4.9	2.5	1.2	1.2	1.2	2.5	6.2	14.8	24.7	37.1	49.4
137.5°	4.9	1.2	1.2	1.2	1.2	2.5	4.9	11.1	19.8	29.7	40.8
140°	3.7	1.2	1.2	1.2	1.2	1.2	3.7	8.7	16.1	24.7	34.6
142.5°	3.7	1.2	1.2	1.2	1.2	1.2	3.7	6.2	12.4	19.8	27.2
145°	2.5	1.2	1.2	1.2	1.2	1.2	2.5	4.9	9.9	14.8	22.2
147.5°	2.5	1.2	1.2	1.2	1.2	1.2	2.5	3.7	7.4	12.4	17.3
150°	2.5	1.2	1.2	1.2	1.2	1.2	2.5	3.7	4.9	8.7	13.6
152.5°	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	3.7	6.2	8.7
155°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	3.7	4.9	6.2
157.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	3.7	4.9
160°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	3.7
162.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5
165°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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: P1213833

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6
2.5°	1175.3	1166.6	1169.1	1167.9	1170.3	1174.0	1174.0	1172.8	1172.8	1170.3	1167.9
5°	1172.8	1164.2	1167.9	1166.6	1169.1	1172.8	1172.8	1171.6	1171.6	1167.9	1166.6
7.5°	1165.4	1159.2	1161.7	1161.7	1164.2	1167.9	1167.9	1166.6	1166.6	1162.9	1161.7
10°	1158.0	1150.6	1154.3	1154.3	1156.7	1161.7	1161.7	1160.4	1160.4	1156.7	1155.5
12.5°	1145.6	1138.2	1144.4	1145.6	1148.1	1153.0	1151.8	1151.8	1151.8	1148.1	1146.9
15°	1130.8	1125.8	1132.0	1133.3	1137.0	1143.1	1143.1	1143.1	1143.1	1139.4	1138.2
17.5°	1114.7	1111.0	1117.2	1119.7	1124.6	1130.8	1130.8	1132.0	1133.3	1130.8	1129.6
20°	1096.2	1093.7	1099.9	1104.8	1112.2	1118.4	1120.9	1122.1	1124.6	1122.1	1120.9
22.5°	1075.2	1075.2	1083.8	1088.8	1097.4	1103.6	1107.3	1111.0	1113.5	1111.0	1109.8
25°	1051.7	1055.4	1064.1	1072.7	1082.6	1088.8	1092.5	1097.4	1099.9	1098.7	1097.4
27.5°	1029.4	1034.4	1045.5	1054.2	1062.8	1072.7	1076.4	1082.6	1085.1	1085.1	1083.8
30°	1003.5	1010.9	1023.3	1033.2	1044.3	1054.2	1059.1	1065.3	1069.0	1066.5	1067.8
32.5°	978.8	991.1	1001.0	1012.1	1024.5	1034.4	1040.6	1048.0	1051.7	1050.5	1051.7
35°	951.6	963.9	977.5	988.7	1003.5	1013.4	1022.0	1028.2	1033.2	1031.9	1031.9
37.5°	921.9	938.0	951.6	966.4	980.0	991.1	999.8	1007.2	1012.1	1012.1	1012.1
40°	893.5	910.8	924.4	941.7	959.0	968.9	978.8	986.2	991.1	992.4	993.6
42.5°	862.6	881.1	897.2	915.8	933.1	945.4	956.5	965.2	970.1	972.6	971.4
45°	834.2	851.5	870.0	891.0	907.1	919.5	933.1	942.9	947.9	949.1	950.4
47.5°	802.1	821.8	842.8	863.8	879.9	896.0	908.3	918.2	923.2	926.9	926.9
50°	771.2	792.2	815.6	837.9	855.2	871.3	883.6	894.7	900.9	903.4	904.6
52.5°	742.7	762.5	787.2	809.5	826.8	842.8	858.9	871.3	877.4	879.9	879.9
55°	708.1	732.8	760.0	781.0	799.6	818.1	834.2	846.5	852.7	856.4	858.9
57.5°	676.0	702.0	730.4	752.6	774.9	792.2	807.0	823.1	828.0	833.0	834.2
60°	645.1	671.1	698.2	723.0	745.2	763.7	781.0	794.6	803.3	805.8	808.2
62.5°	613.0	640.2	668.6	693.3	716.8	739.0	755.1	767.5	777.3	781.0	783.5
65°	582.1	610.5	638.9	664.9	689.6	711.8	727.9	740.3	750.1	756.3	757.6
67.5°	548.7	579.6	609.3	636.5	661.2	684.7	700.7	713.1	723.0	730.4	731.6
70°	517.8	549.9	579.6	609.3	634.0	657.5	674.8	687.1	698.2	703.2	705.7
72.5°	488.2	521.5	552.4	582.1	606.8	630.3	648.8	661.2	672.3	678.5	679.7
75°	459.7	493.1	526.5	554.9	580.8	604.3	622.9	636.5	646.3	652.5	655.0
77.5°	431.3	465.9	499.3	527.7	554.9	578.4	594.4	610.5	620.4	627.8	627.8
80°	402.9	438.7	473.3	501.7	528.9	549.9	568.5	584.5	594.4	601.9	601.9
82.5°	378.2	412.8	446.1	474.6	501.7	525.2	543.8	558.6	569.7	574.7	575.9
85°	349.7	388.1	418.9	449.8	475.8	498.0	516.6	532.6	542.5	547.5	549.9
87.5°	326.3	363.3	396.7	423.9	449.8	472.1	493.1	506.7	516.6	522.8	525.2
90°	304.0	339.9	373.2	400.4	427.6	448.6	468.4	482.0	493.1	498.0	500.5
92.5°	284.2	320.1	352.2	379.4	405.4	428.8	447.4	461.0	470.9	475.8	479.5
95°	265.7	300.3	331.2	360.9	385.6	406.6	426.4	440.0	451.1	454.8	458.5
97.5°	247.2	280.5	311.4	339.9	365.8	385.6	404.1	417.7	426.4	432.5	436.2
100°	231.1	263.2	292.9	320.1	344.8	363.3	383.1	395.5	404.1	409.1	414.0
102.5°	213.8	245.9	274.4	300.3	326.3	343.6	362.1	374.5	381.9	390.5	390.5
105°	199.0	228.6	257.1	281.8	304.0	325.0	341.1	353.4	362.1	368.3	368.3
107.5°	182.9	212.6	239.8	265.7	286.7	306.5	321.3	332.4	342.3	346.0	349.7
110°	170.5	196.5	223.7	248.4	268.2	286.7	301.5	313.9	322.6	326.3	328.7

TEST NUMBER: P1213833

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	155.7	182.9	207.6	231.1	250.9	268.2	283.0	292.9	301.5	306.5	307.7
115°	143.4	169.3	191.6	213.8	234.8	249.6	263.2	273.1	281.8	285.5	287.9
117.5°	132.2	155.7	178.0	196.5	216.3	232.3	245.9	254.6	262.0	266.9	269.4
120°	121.1	143.4	163.1	181.7	200.2	215.0	227.4	236.0	244.7	248.4	248.4
122.5°	110.0	131.0	149.5	166.8	184.1	197.7	211.3	218.7	226.2	229.9	229.9
125°	100.1	119.9	137.2	153.2	169.3	181.7	192.8	201.4	208.9	211.3	211.3
127.5°	90.2	108.8	124.8	139.6	153.2	165.6	176.7	185.4	191.6	194.0	194.0
130°	81.6	97.6	112.5	127.3	140.9	150.8	161.9	169.3	173.0	176.7	178.0
132.5°	72.9	87.7	101.3	113.7	127.3	137.2	145.8	153.2	157.0	160.7	161.9
135°	64.3	77.9	90.2	102.6	113.7	123.6	131.0	137.2	142.1	144.6	145.8
137.5°	54.4	69.2	80.3	90.2	102.6	110.0	118.6	122.3	127.3	129.8	129.8
140°	45.7	56.8	69.2	79.1	89.0	96.4	103.8	110.0	113.7	114.9	114.9
142.5°	37.1	47.0	56.8	69.2	77.9	84.0	91.5	96.4	98.9	100.1	101.3
145°	29.7	37.1	45.7	56.8	66.7	74.1	77.9	82.8	85.3	86.5	87.7
147.5°	22.2	29.7	37.1	44.5	54.4	61.8	65.5	70.4	72.9	74.1	74.1
150°	17.3	22.2	27.2	34.6	42.0	50.7	55.6	59.3	60.6	61.8	61.8
152.5°	12.4	17.3	21.0	26.0	30.9	38.3	45.7	48.2	49.4	50.7	50.7
155°	8.7	12.4	14.8	18.5	22.2	28.4	34.6	38.3	39.5	40.8	40.8
157.5°	6.2	8.7	9.9	13.6	16.1	18.5	23.5	29.7	30.9	30.9	30.9
160°	3.7	4.9	6.2	8.7	9.9	12.4	14.8	18.5	22.2	22.2	22.2
162.5°	2.5	3.7	3.7	4.9	4.9	7.4	8.7	9.9	13.6	14.8	14.8
165°	1.2	2.5	2.5	2.5	2.5	2.5	3.7	3.7	6.2	7.4	7.4
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: P1213833

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6
2.5°	1169.1	1171.6	1170.3	1170.3	1170.3	1172.8	1170.3	1159.2	1161.7	1164.2	1166.6
5°	1167.9	1169.1	1169.1	1167.9	1167.9	1170.3	1167.9	1156.7	1159.2	1161.7	1162.9
7.5°	1162.9	1164.2	1164.2	1164.2	1162.9	1165.4	1161.7	1151.8	1151.8	1154.3	1155.5
10°	1156.7	1159.2	1158.0	1156.7	1156.7	1156.7	1154.3	1143.1	1143.1	1144.4	1145.6
12.5°	1149.3	1149.3	1149.3	1148.1	1146.9	1146.9	1144.4	1133.3	1132.0	1134.5	1133.3
15°	1139.4	1141.9	1139.4	1138.2	1135.7	1135.7	1132.0	1120.9	1118.4	1119.7	1118.4
17.5°	1130.8	1132.0	1129.6	1127.1	1124.6	1123.4	1119.7	1107.3	1103.6	1104.8	1102.4
20°	1122.1	1122.1	1119.7	1117.2	1113.5	1109.8	1104.8	1092.5	1086.3	1086.3	1081.4
22.5°	1111.0	1111.0	1108.5	1104.8	1101.1	1096.2	1091.2	1078.9	1069.0	1066.5	1062.8
25°	1098.7	1097.4	1096.2	1092.5	1085.1	1080.1	1075.2	1061.6	1050.5	1045.5	1039.3
27.5°	1083.8	1083.8	1080.1	1076.4	1069.0	1062.8	1056.6	1044.3	1029.4	1023.3	1014.6
30°	1067.8	1067.8	1064.1	1059.1	1051.7	1044.3	1036.9	1022.0	1007.2	998.6	988.7
32.5°	1051.7	1050.5	1046.7	1041.8	1034.4	1023.3	1017.1	1002.3	985.0	975.1	961.5
35°	1031.9	1030.7	1027.0	1020.8	1010.9	1002.3	992.4	978.8	959.0	946.6	931.8
37.5°	1012.1	1010.9	1008.4	999.8	989.9	980.0	967.7	954.1	935.5	919.5	904.6
40°	992.4	991.1	986.2	980.0	967.7	955.3	942.9	929.3	909.6	891.0	875.0
42.5°	971.4	970.1	963.9	956.5	942.9	930.6	915.8	900.9	881.1	858.9	842.8
45°	950.4	947.9	941.7	933.1	918.2	904.6	889.8	872.5	852.7	831.7	810.7
47.5°	928.1	924.4	918.2	905.9	893.5	878.7	861.4	842.8	823.1	799.6	777.3
50°	903.4	900.9	893.5	882.4	867.6	852.7	833.0	814.4	790.9	768.7	741.5
52.5°	879.9	875.0	868.8	856.4	841.6	825.5	804.5	782.3	758.8	737.8	709.4
55°	855.2	852.7	844.1	834.2	815.6	797.1	777.3	753.9	727.9	703.2	676.0
57.5°	831.7	826.8	819.4	805.8	789.7	771.2	750.1	725.4	697.0	671.1	641.4
60°	808.2	800.8	792.2	779.8	762.5	742.7	720.5	694.5	666.1	637.7	606.8
62.5°	782.3	776.1	766.2	753.9	736.6	715.5	692.1	664.9	637.7	608.0	574.7
65°	756.3	750.1	740.3	727.9	710.6	687.1	662.4	635.2	604.3	575.9	540.1
67.5°	730.4	724.2	713.1	699.5	682.2	659.9	634.0	605.6	574.7	543.8	506.7
70°	704.4	697.0	687.1	672.3	655.0	631.5	605.6	575.9	545.0	511.6	474.6
72.5°	678.5	672.3	659.9	646.3	627.8	604.3	578.4	548.7	516.6	482.0	444.9
75°	652.5	645.1	636.5	620.4	600.6	578.4	551.2	521.5	486.9	453.6	415.2
77.5°	626.6	620.4	609.3	593.2	574.7	551.2	524.0	494.3	459.7	425.1	384.3
80°	600.6	593.2	584.5	569.7	548.7	525.2	496.8	467.1	432.5	396.7	355.9
82.5°	574.7	567.2	557.4	542.5	522.8	499.3	472.1	440.0	405.4	368.3	330.0
85°	548.7	542.5	531.4	516.6	495.6	472.1	444.9	416.5	379.4	342.3	304.0
87.5°	522.8	516.6	505.5	490.6	470.9	447.4	420.2	390.5	354.7	320.1	278.1
90°	498.0	493.1	482.0	467.1	447.4	423.9	399.2	367.0	332.4	297.8	258.3
92.5°	475.8	470.9	461.0	446.1	428.8	402.9	378.2	347.3	312.7	276.8	238.5
95°	456.0	449.8	440.0	426.4	405.4	383.1	358.4	327.5	294.1	258.3	221.2
97.5°	433.8	427.6	417.7	402.9	385.6	362.1	337.4	307.7	274.4	241.0	203.9
100°	411.5	405.4	394.2	381.9	364.6	341.1	317.6	287.9	257.1	224.9	189.1
102.5°	389.3	383.1	373.2	360.9	343.6	322.6	299.1	270.6	239.8	207.6	174.3
105°	368.3	362.1	352.2	339.9	323.8	302.8	278.1	253.3	223.7	192.8	160.7
107.5°	347.3	341.1	332.4	320.1	304.0	284.2	260.8	234.8	207.6	178.0	147.1
110°	326.3	321.3	311.4	300.3	284.2	264.5	243.5	218.7	191.6	164.4	134.7

TEST NUMBER: P1213833

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	306.5	301.5	291.7	279.3	265.7	247.2	226.2	202.7	176.7	150.8	122.3
115°	286.7	280.5	271.9	260.8	247.2	229.9	210.1	189.1	163.1	138.4	112.5
117.5°	266.9	262.0	253.3	242.2	229.9	212.6	194.0	174.3	149.5	126.1	102.6
120°	247.2	243.5	234.8	224.9	212.6	196.5	179.2	159.4	137.2	114.9	92.7
122.5°	228.6	224.9	216.3	207.6	195.3	180.4	164.4	145.8	126.1	105.0	85.3
125°	211.3	206.4	199.0	190.3	179.2	165.6	149.5	132.2	113.7	95.2	76.6
127.5°	192.8	189.1	184.1	174.3	163.1	150.8	135.9	121.1	103.8	86.5	69.2
130°	178.0	173.0	166.8	159.4	149.5	137.2	123.6	108.8	93.9	77.9	60.6
132.5°	160.7	155.7	150.8	143.4	134.7	123.6	111.2	97.6	84.0	69.2	54.4
135°	144.6	140.9	135.9	128.5	119.9	111.2	98.9	86.5	74.1	60.6	48.2
137.5°	129.8	126.1	121.1	116.2	107.5	98.9	87.7	76.6	65.5	53.1	42.0
140°	114.9	112.5	107.5	102.6	95.2	86.5	76.6	66.7	56.8	45.7	35.8
142.5°	100.1	97.6	93.9	89.0	82.8	75.4	66.7	58.1	48.2	39.5	30.9
145°	86.5	85.3	81.6	76.6	71.7	64.3	56.8	49.4	40.8	33.4	24.7
147.5°	72.9	71.7	69.2	65.5	60.6	54.4	48.2	40.8	34.6	27.2	19.8
150°	60.6	59.3	58.1	53.1	50.7	44.5	39.5	33.4	28.4	21.0	16.1
152.5°	49.4	49.4	47.0	43.3	40.8	35.8	32.1	27.2	22.2	17.3	12.4
155°	39.5	38.3	37.1	34.6	32.1	28.4	24.7	21.0	17.3	12.4	8.7
157.5°	30.9	29.7	28.4	26.0	23.5	22.2	18.5	14.8	11.1	8.7	6.2
160°	22.2	21.0	19.8	18.5	17.3	14.8	12.4	9.9	7.4	4.9	3.7
162.5°	14.8	13.6	13.6	12.4	11.1	8.7	7.4	6.2	4.9	3.7	2.5
165°	7.4	7.4	6.2	6.2	4.9	3.7	3.7	3.7	2.5	2.5	1.2
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: P1213833

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6	1171.6
2.5°	1165.4	1165.4	1170.3	1169.1	1165.4	1172.8	1181.5
5°	1161.7	1161.7	1165.4	1165.4	1161.7	1169.1	1176.5
7.5°	1155.5	1154.3	1158.0	1158.0	1153.0	1159.2	1167.9
10°	1144.4	1143.1	1146.9	1146.9	1141.9	1148.1	1155.5
12.5°	1132.0	1129.6	1133.3	1132.0	1127.1	1133.3	1140.7
15°	1116.0	1114.7	1117.2	1114.7	1109.8	1116.0	1123.4
17.5°	1099.9	1096.2	1097.4	1097.4	1088.8	1094.9	1101.1
20°	1078.9	1073.9	1075.2	1073.9	1067.8	1071.5	1078.9
22.5°	1057.9	1050.5	1050.5	1049.2	1041.8	1046.7	1052.9
25°	1031.9	1023.3	1023.3	1022.0	1013.4	1017.1	1023.3
27.5°	1006.0	997.3	993.6	992.4	983.7	983.7	992.4
30°	978.8	966.4	963.9	960.2	951.6	951.6	959.0
32.5°	952.8	935.5	930.6	925.6	917.0	915.8	924.4
35°	918.2	904.6	896.0	891.0	881.1	878.7	886.1
37.5°	889.8	872.5	860.1	854.0	844.1	840.4	850.3
40°	858.9	840.4	824.3	820.6	805.8	800.8	809.5
42.5°	824.3	804.5	788.5	781.0	769.9	765.0	766.2
45°	789.7	768.7	751.4	741.5	730.4	721.7	726.7
47.5°	753.9	735.3	714.3	699.5	685.9	679.7	682.2
50°	718.0	695.8	676.0	659.9	643.9	636.5	641.4
52.5°	682.2	658.7	636.5	619.2	600.6	593.2	594.4
55°	647.6	622.9	596.9	578.4	561.1	549.9	547.5
57.5°	613.0	585.8	558.6	537.6	515.3	505.5	501.7
60°	575.9	547.5	519.0	494.3	470.9	459.7	454.8
62.5°	541.3	510.4	478.3	452.3	428.8	414.0	410.3
65°	507.9	472.1	440.0	410.3	384.3	368.3	363.3
67.5°	472.1	435.0	400.4	368.3	343.6	322.6	320.1
70°	438.7	399.2	360.9	327.5	300.3	279.3	269.4
72.5°	405.4	364.6	325.0	289.2	254.6	234.8	227.4
75°	373.2	331.2	289.2	252.1	213.8	190.3	182.9
77.5°	343.6	300.3	255.8	215.0	179.2	149.5	139.6
80°	315.1	270.6	223.7	181.7	143.4	111.2	100.1
82.5°	285.5	243.5	195.3	150.8	111.2	77.9	64.3
85°	259.5	217.5	169.3	124.8	85.3	49.4	34.6
87.5°	238.5	192.8	149.5	105.0	64.3	28.4	9.9
90°	217.5	173.0	129.8	86.5	48.2	16.1	1.2
92.5°	199.0	157.0	113.7	74.1	37.1	11.1	1.2
95°	181.7	140.9	100.1	61.8	29.7	7.4	1.2
97.5°	165.6	127.3	89.0	53.1	24.7	6.2	1.2
100°	152.0	114.9	79.1	47.0	21.0	4.9	1.2
102.5°	138.4	103.8	70.4	40.8	18.5	3.7	1.2
105°	127.3	93.9	63.0	37.1	16.1	3.7	1.2
107.5°	116.2	85.3	56.8	32.1	13.6	2.5	1.2
110°	105.0	77.9	50.7	28.4	12.4	2.5	1.2

TEST NUMBER: P1213833

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	96.4	70.4	45.7	26.0	9.9	2.5	1.2
115°	87.7	63.0	40.8	22.2	8.7	1.2	1.2
117.5°	79.1	56.8	35.8	19.8	7.4	1.2	1.2
120°	71.7	50.7	32.1	17.3	6.2	1.2	1.2
122.5°	64.3	45.7	28.4	14.8	4.9	1.2	1.2
125°	58.1	40.8	24.7	12.4	3.7	1.2	1.2
127.5°	51.9	35.8	22.2	11.1	3.7	1.2	1.2
130°	45.7	32.1	18.5	8.7	2.5	1.2	1.2
132.5°	40.8	27.2	16.1	7.4	2.5	1.2	1.2
135°	35.8	23.5	13.6	4.9	2.5	1.2	1.2
137.5°	30.9	19.8	11.1	3.7	1.2	1.2	1.2
140°	26.0	17.3	8.7	3.7	1.2	1.2	1.2
142.5°	22.2	13.6	6.2	2.5	1.2	1.2	1.2
145°	17.3	11.1	4.9	2.5	1.2	1.2	1.2
147.5°	13.6	8.7	3.7	2.5	1.2	1.2	1.2
150°	9.9	6.2	3.7	1.2	1.2	1.2	1.2
152.5°	7.4	4.9	2.5	1.2	1.2	1.2	1.2
155°	4.9	3.7	2.5	1.2	1.2	1.2	1.2
157.5°	3.7	2.5	1.2	1.2	1.2	1.2	1.2
160°	2.5	1.2	1.2	1.2	1.2	1.2	1.2
162.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2
165°	1.2	1.2	1.2	1.2	1.2	1.2	1.2
167.5°	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
172.5°	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
177.5°	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

(END OF REPORT)