

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: P1213482

Luminaire Tested: 4SNLED-LD5-58SL-LW-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213482
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-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

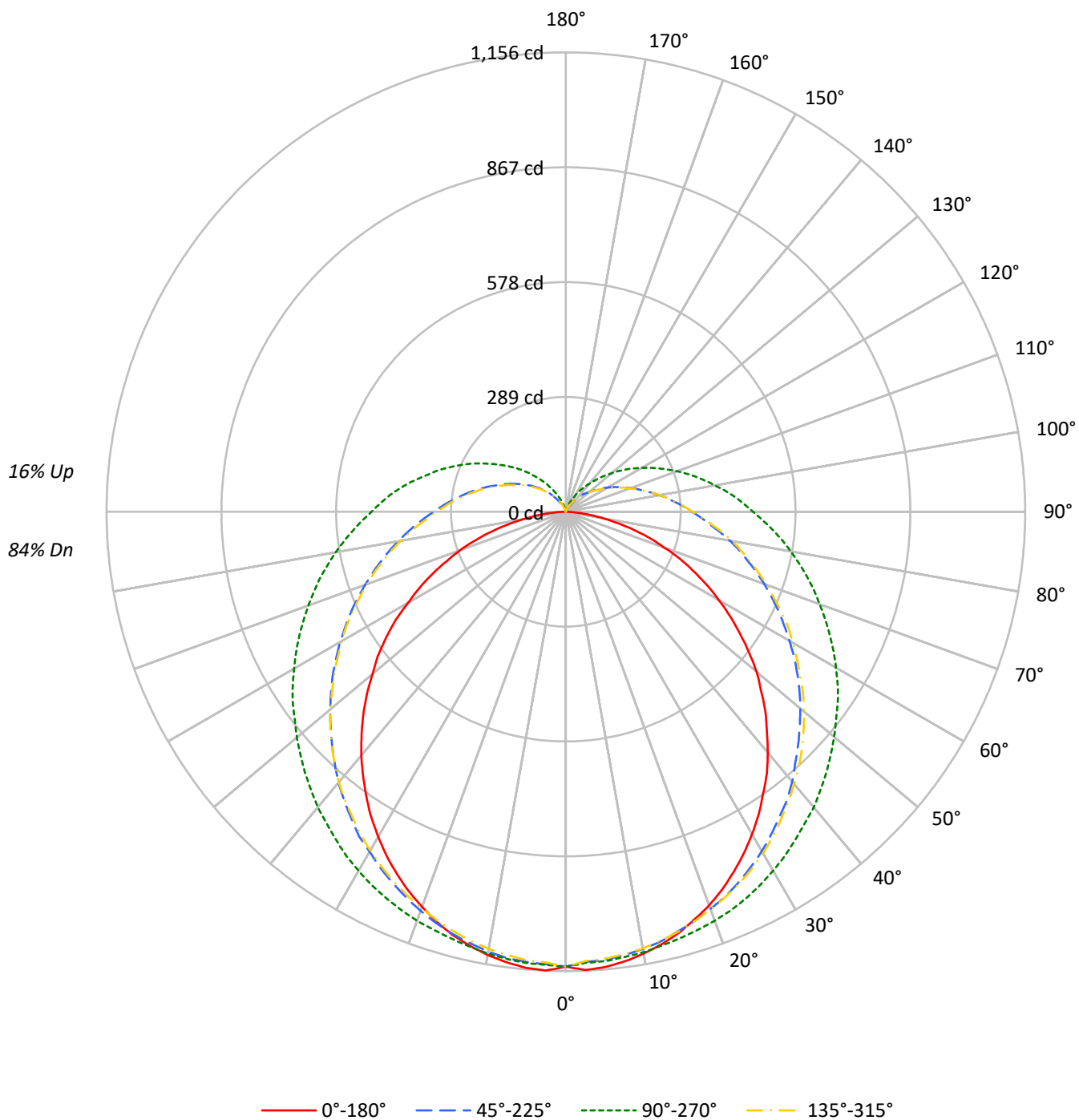
Lumens per Lamp: N/A
Luminaire Lumens: 4973.0 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

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°	9250	9250	9250	9250
5°	9299	8914	9319	8952
10°	9213	8661	9243	8688
15°	9106	8444	9146	8453
20°	8963	8285	8994	8285
25°	8786	8145	8839	8136
30°	8588	8000	8654	8000
35°	8357	7867	8451	7876
40°	8130	7788	8229	7788
45°	7868	7705	7988	7715
50°	7596	7656	7698	7677
55°	7214	7663	7442	7697
60°	6812	7686	7034	7734
65°	6362	7764	6643	7841
70°	5727	7907	6173	8019
75°	4997	8165	5469	8322
80°	3866	8548	4392	8746
85°	2309	9162	2890	9416

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 270°

Vertical Angle: 90°

Luminance: 10527 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.4	2.2
10°-20°	311.6	6.3
20°-30°	477.8	9.6
30°-40°	589.5	11.9
40°-50°	639.5	12.9
50°-60°	630.3	12.7
60°-70°	569.9	11.5
70°-80°	474.8	9.5
80°-90°	367.7	7.4
90°-100°	278.9	5.6
100°-110°	206.4	4.1
110°-120°	143.6	2.9
120°-130°	91.6	1.8
130°-140°	51.4	1.0
140°-150°	23.5	0.5
150°-160°	7.3	0.1
160°-170°	0.9	0.0
170°-180°	0.0	0.0
0°-30°	897.9	18.1
0°-40°	1487.3	29.9
0°-60°	2757.2	55.4
0°-90°	4169.5	83.8
90°-120°	628.8	12.6
90°-150°	795.3	16.0
90°-180°	803.0	16.1
0°-180°	4973.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1145	1145	1145	1145	1145	
5°	1150	1135	1152	1140	1150	109
15°	1098	1111	1102	1112	1098	309
25°	1000	1073	1006	1072	1000	461
35°	866	1007	875	1008	866	542
45°	710	927	721	928	710	547
55°	535	836	552	839	535	479
65°	355	733	371	740	355	352
75°	179	628	196	640	179	189
85°	34	523	42	537	34	41
90°	1	471	2	489	1	2
95°	1	427	1	448	1	1
105°	1	339	1	360	1	1
115°	1	258	1	281	1	1
125°	1	186	1	206	1	1
135°	1	121	1	142	1	1
145°	1	70	1	86	1	1
155°	1	29	1	40	1	1
165°	1	5	1	7	1	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6
2.5°	1154.3	1154.3	1153.1	1150.7	1151.9	1155.5	1153.1	1147.1	1143.4	1133.8	1136.2
5°	1149.5	1149.5	1148.3	1145.8	1147.1	1151.9	1149.5	1144.6	1139.8	1131.4	1135.0
7.5°	1141.0	1141.0	1139.8	1137.4	1139.8	1144.6	1142.2	1137.4	1133.8	1125.3	1128.9
10°	1128.9	1130.1	1128.9	1125.3	1130.1	1135.0	1133.8	1127.7	1124.1	1116.9	1120.5
12.5°	1114.5	1115.7	1114.5	1113.2	1115.7	1122.9	1120.5	1115.7	1113.2	1107.2	1110.8
15°	1097.5	1098.8	1096.3	1096.3	1098.8	1106.0	1106.0	1101.2	1098.8	1092.7	1100.0
17.5°	1075.8	1077.0	1075.8	1075.8	1078.2	1085.5	1086.7	1084.3	1081.9	1079.4	1086.7
20°	1054.1	1052.9	1052.9	1051.7	1056.5	1067.4	1066.2	1066.2	1063.7	1063.7	1072.2
22.5°	1028.7	1028.7	1027.5	1027.5	1033.6	1043.2	1043.2	1045.6	1043.2	1048.0	1055.3
25°	999.7	1001.0	999.7	1002.2	1007.0	1017.9	1019.1	1022.7	1023.9	1028.7	1037.2
27.5°	969.6	970.8	969.6	972.0	980.4	988.9	994.9	999.7	1001.0	1008.2	1019.1
30°	937.0	937.0	938.2	940.6	950.2	963.5	968.4	974.4	974.4	986.5	997.3
32.5°	903.2	903.2	903.2	908.0	918.9	934.5	940.6	947.8	950.2	962.3	974.4
35°	865.7	866.9	866.9	870.6	885.0	900.7	909.2	917.6	922.5	937.0	949.0
37.5°	830.7	833.1	829.5	834.3	854.9	868.1	877.8	886.2	894.7	914.0	923.7
40°	790.9	793.3	792.1	801.7	818.6	835.5	846.4	854.9	866.9	886.2	897.1
42.5°	748.6	751.0	753.4	764.3	782.4	799.3	812.6	823.5	838.0	854.9	873.0
45°	710.0	710.0	713.6	726.9	746.2	764.3	780.0	792.1	809.0	827.1	845.2
47.5°	666.5	667.7	672.5	688.2	708.8	730.5	745.0	760.7	778.8	798.1	818.6
50°	626.7	626.7	633.9	650.8	670.1	694.3	710.0	728.1	747.4	770.3	790.9
52.5°	580.8	583.2	594.1	609.7	635.1	656.8	675.0	694.3	717.2	741.4	764.3
55°	534.9	539.7	548.2	569.9	596.5	617.0	638.7	662.9	684.6	711.2	737.7
57.5°	490.2	493.8	507.1	528.9	556.6	582.0	604.9	627.9	654.4	681.0	708.8
60°	444.3	449.2	464.9	486.6	516.8	543.3	569.9	594.1	621.8	649.6	678.6
62.5°	400.9	404.5	422.6	448.0	478.1	507.1	533.7	562.7	592.8	619.4	648.4
65°	355.0	361.0	381.5	404.5	439.5	468.5	498.7	530.1	561.5	590.4	618.2
67.5°	312.7	316.3	338.1	364.6	399.7	432.3	463.7	497.5	530.1	560.2	588.0
70°	263.2	275.3	297.0	324.8	362.2	396.0	429.8	464.9	499.9	531.3	557.8
72.5°	222.2	231.8	256.0	286.2	322.4	362.2	397.2	434.7	469.7	502.3	530.1
75°	178.7	188.4	216.1	249.9	287.4	329.6	365.8	404.5	440.7	473.3	502.3
77.5°	136.4	148.5	178.7	213.7	254.8	298.2	335.7	374.3	411.7	446.7	475.7
80°	97.8	111.1	143.7	183.5	223.4	266.8	307.9	346.5	384.0	419.0	449.2
82.5°	62.8	77.3	112.3	152.1	194.4	237.9	280.1	318.8	356.2	391.2	422.6
85°	33.8	49.5	85.7	125.6	167.8	211.3	253.6	294.6	330.8	363.4	397.2
87.5°	9.7	29.0	64.0	103.8	147.3	187.2	228.2	269.3	305.5	340.5	370.7
90°	1.2	16.9	48.3	85.7	128.0	166.6	207.7	246.3	282.5	317.6	347.7
92.5°	1.2	10.9	37.4	71.2	109.9	149.7	190.8	228.2	262.0	297.0	327.2
95°	1.2	8.5	30.2	60.4	96.6	134.0	172.7	208.9	243.9	276.5	306.7
97.5°	1.2	6.0	24.1	51.9	84.5	119.5	157.0	193.2	227.0	258.4	286.2
100°	1.2	4.8	19.3	44.7	73.7	107.5	141.3	176.3	208.9	239.1	268.0
102.5°	1.2	3.6	16.9	37.4	65.2	95.4	128.0	160.6	192.0	221.0	249.9
105°	1.2	3.6	14.5	32.6	58.0	85.7	115.9	147.3	176.3	204.1	230.6
107.5°	1.2	2.4	12.1	27.8	50.7	77.3	105.0	135.2	161.8	188.4	213.7
110°	1.2	2.4	9.7	25.4	44.7	68.8	95.4	123.2	148.5	173.9	198.0

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.2	2.4	8.5	21.7	38.6	61.6	85.7	111.1	135.2	160.6	182.3
115°	1.2	2.4	7.2	19.3	36.2	53.1	77.3	100.2	124.4	147.3	167.8
117.5°	1.2	2.4	6.0	15.7	31.4	48.3	67.6	90.6	112.3	134.0	153.3
120°	1.2	2.4	4.8	14.5	27.8	43.5	60.4	80.9	101.4	121.9	142.5
122.5°	1.2	1.2	4.8	12.1	24.1	38.6	55.5	71.2	90.6	109.9	128.0
125°	1.2	1.2	4.8	10.9	20.5	35.0	49.5	64.0	80.9	97.8	113.5
127.5°	1.2	1.2	3.6	8.5	18.1	30.2	43.5	59.2	71.2	86.9	102.6
130°	1.2	1.2	3.6	7.2	15.7	25.4	38.6	51.9	66.4	77.3	90.6
132.5°	1.2	1.2	3.6	6.0	12.1	20.5	32.6	44.7	58.0	70.0	80.9
135°	1.2	1.2	2.4	4.8	9.7	16.9	26.6	37.4	50.7	62.8	73.7
137.5°	1.2	1.2	2.4	4.8	7.2	14.5	20.5	30.2	42.3	53.1	64.0
140°	1.2	1.2	2.4	3.6	6.0	10.9	16.9	24.1	33.8	43.5	55.5
142.5°	1.2	1.2	1.2	3.6	4.8	8.5	13.3	19.3	26.6	35.0	44.7
145°	1.2	1.2	1.2	3.6	4.8	6.0	10.9	15.7	20.5	26.6	35.0
147.5°	1.2	1.2	1.2	2.4	3.6	4.8	8.5	12.1	15.7	20.5	25.4
150°	1.2	1.2	1.2	2.4	3.6	4.8	6.0	8.5	12.1	16.9	20.5
152.5°	1.2	1.2	1.2	2.4	2.4	3.6	4.8	6.0	8.5	12.1	14.5
155°	1.2	1.2	1.2	1.2	2.4	3.6	4.8	4.8	6.0	8.5	10.9
157.5°	1.2	1.2	1.2	1.2	2.4	2.4	3.6	3.6	4.8	4.8	7.2
160°	1.2	1.2	1.2	1.2	1.2	2.4	2.4	3.6	3.6	3.6	3.6
162.5°	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4	3.6	3.6
165°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4
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

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6
2.5°	1136.2	1137.4	1141.0	1141.0	1138.6	1138.6	1137.4	1136.2	1137.4	1139.8	1139.8
5°	1133.8	1135.0	1138.6	1139.8	1137.4	1136.2	1136.2	1135.0	1136.2	1138.6	1138.6
7.5°	1128.9	1130.1	1133.8	1135.0	1132.6	1132.6	1131.4	1130.1	1132.6	1133.8	1133.8
10°	1121.7	1122.9	1127.7	1128.9	1127.7	1126.5	1126.5	1125.3	1126.5	1128.9	1128.9
12.5°	1112.0	1114.5	1120.5	1120.5	1120.5	1119.3	1119.3	1118.1	1119.3	1121.7	1120.5
15°	1101.2	1106.0	1110.8	1113.2	1113.2	1113.2	1112.0	1110.8	1113.2	1114.5	1113.2
17.5°	1089.1	1095.1	1102.4	1104.8	1104.8	1106.0	1104.8	1103.6	1106.0	1106.0	1104.8
20°	1077.0	1083.1	1090.3	1092.7	1095.1	1096.3	1096.3	1095.1	1096.3	1097.5	1096.3
22.5°	1061.3	1068.6	1077.0	1080.6	1083.1	1085.5	1085.5	1085.5	1086.7	1087.9	1085.5
25°	1044.4	1052.9	1062.5	1066.2	1071.0	1072.2	1073.4	1073.4	1074.6	1075.8	1072.2
27.5°	1026.3	1036.0	1045.6	1051.7	1055.3	1057.7	1057.7	1058.9	1060.1	1061.3	1057.7
30°	1004.6	1019.1	1027.5	1032.3	1037.2	1040.8	1042.0	1043.2	1044.4	1045.6	1042.0
32.5°	985.3	997.3	1008.2	1014.2	1020.3	1025.1	1026.3	1026.3	1028.7	1028.7	1025.1
35°	962.3	976.8	987.7	993.7	1001.0	1004.6	1007.0	1007.0	1009.4	1009.4	1005.8
37.5°	939.4	953.9	965.9	973.2	981.6	986.5	987.7	987.7	990.1	990.1	985.3
40°	915.2	930.9	944.2	952.7	959.9	965.9	967.1	970.8	970.8	969.6	964.7
42.5°	891.1	905.6	920.1	929.7	939.4	945.4	947.8	949.0	949.0	947.8	944.2
45°	864.5	881.4	894.7	906.8	916.4	922.5	926.1	927.3	927.3	924.9	921.3
47.5°	839.2	856.1	869.3	882.6	892.3	899.5	903.2	904.4	903.2	901.9	898.3
50°	812.6	831.9	845.2	858.5	868.1	874.2	880.2	881.4	880.2	879.0	871.8
52.5°	784.8	805.4	819.8	833.1	844.0	851.2	856.1	857.3	857.3	854.9	850.0
55°	757.1	775.2	793.3	807.8	819.8	827.1	833.1	835.5	833.1	830.7	824.7
57.5°	731.7	748.6	766.7	782.4	794.5	804.1	809.0	811.4	809.0	805.4	799.3
60°	701.5	719.6	740.2	754.6	767.9	777.6	780.0	784.8	782.4	778.8	772.8
62.5°	672.5	694.3	712.4	730.5	741.4	752.2	757.1	759.5	757.1	753.4	747.4
65°	642.3	666.5	684.6	702.7	714.8	725.7	731.7	732.9	730.5	726.9	720.8
67.5°	614.6	637.5	656.8	676.2	687.0	697.9	703.9	706.3	703.9	699.1	693.1
70°	586.8	609.7	632.7	647.2	660.5	672.5	676.2	679.8	677.4	672.5	665.3
72.5°	559.0	583.2	606.1	620.6	635.1	646.0	650.8	654.4	652.0	647.2	638.7
75°	530.1	555.4	578.4	594.1	608.5	619.4	624.2	627.9	625.4	620.6	611.0
77.5°	503.5	528.9	550.6	567.5	582.0	591.6	600.1	601.3	598.9	594.1	584.4
80°	475.7	501.1	524.0	540.9	555.4	565.1	571.1	574.7	572.3	567.5	557.8
82.5°	451.6	474.5	497.5	514.4	528.9	540.9	545.8	549.4	548.2	540.9	533.7
85°	425.0	451.6	469.7	487.8	502.3	514.4	518.0	522.8	521.6	515.6	505.9
87.5°	398.5	425.0	446.7	464.9	478.1	487.8	493.8	496.3	495.0	489.0	478.1
90°	376.7	400.9	422.6	441.9	452.8	463.7	469.7	470.9	470.9	463.7	455.2
92.5°	356.2	379.1	400.9	419.0	432.3	441.9	446.7	449.2	448.0	441.9	432.3
95°	333.2	358.6	379.1	397.2	410.5	420.2	425.0	427.4	426.2	420.2	410.5
97.5°	313.9	336.9	357.4	374.3	387.6	397.2	402.1	404.5	404.5	398.5	388.8
100°	294.6	317.6	336.9	353.8	365.8	375.5	380.3	381.5	380.3	375.5	365.8
102.5°	275.3	297.0	316.3	332.0	345.3	353.8	358.6	359.8	359.8	353.8	344.1
105°	256.0	277.7	295.8	312.7	323.6	332.0	335.7	339.3	338.1	333.2	323.6
107.5°	237.9	259.6	276.5	292.2	303.1	311.5	315.1	318.8	317.6	312.7	303.1
110°	221.0	241.5	257.2	272.9	282.5	291.0	297.0	298.2	295.8	291.0	282.5

TEST NUMBER: P1213482

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	205.3	223.4	239.1	253.6	264.4	270.5	275.3	277.7	275.3	270.5	264.4
115°	188.4	206.5	222.2	235.4	245.1	252.4	256.0	258.4	256.0	251.1	245.1
117.5°	172.7	189.6	205.3	218.5	227.0	233.0	236.7	239.1	236.7	233.0	227.0
120°	159.4	173.9	188.4	200.4	210.1	214.9	218.5	221.0	219.8	214.9	208.9
122.5°	143.7	159.4	172.7	184.7	193.2	198.0	200.4	202.8	201.6	198.0	192.0
125°	130.4	143.7	157.0	167.8	176.3	181.1	183.5	185.9	184.7	181.1	173.9
127.5°	115.9	130.4	141.3	152.1	158.2	165.4	166.6	169.0	167.8	164.2	158.2
130°	105.0	115.9	126.8	136.4	143.7	148.5	150.9	152.1	149.7	147.3	141.3
132.5°	91.8	103.8	113.5	121.9	126.8	131.6	134.0	135.2	135.2	131.6	126.8
135°	82.1	90.6	99.0	107.5	112.3	117.1	119.5	120.7	119.5	117.1	112.3
137.5°	73.7	80.9	86.9	94.2	100.2	102.6	105.0	105.0	103.8	102.6	99.0
140°	64.0	72.4	78.5	83.3	88.1	89.3	91.8	91.8	90.6	89.3	86.9
142.5°	54.3	61.6	67.6	73.7	77.3	79.7	80.9	82.1	80.9	79.7	76.1
145°	43.5	51.9	58.0	61.6	66.4	67.6	68.8	70.0	68.8	67.6	64.0
147.5°	33.8	41.1	47.1	51.9	55.5	56.7	58.0	59.2	58.0	55.5	54.3
150°	24.1	30.2	37.4	42.3	44.7	47.1	47.1	47.1	48.3	45.9	43.5
152.5°	19.3	21.7	26.6	31.4	35.0	36.2	37.4	37.4	36.2	36.2	33.8
155°	13.3	15.7	19.3	22.9	26.6	27.8	29.0	29.0	27.8	27.8	26.6
157.5°	8.5	10.9	13.3	15.7	19.3	20.5	21.7	21.7	21.7	20.5	19.3
160°	4.8	6.0	7.2	9.7	12.1	13.3	14.5	14.5	14.5	14.5	13.3
162.5°	3.6	3.6	3.6	4.8	6.0	7.2	8.5	8.5	8.5	8.5	7.2
165°	2.4	2.4	2.4	2.4	2.4	3.6	4.8	4.8	4.8	4.8	4.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213482

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6
2.5°	1138.6	1138.6	1139.8	1137.4	1130.1	1131.4	1131.4	1136.2	1138.6	1139.8	1145.8
5°	1136.2	1136.2	1138.6	1135.0	1128.9	1128.9	1128.9	1133.8	1135.0	1137.4	1142.2
7.5°	1132.6	1132.6	1133.8	1130.1	1122.9	1122.9	1121.7	1126.5	1128.9	1130.1	1135.0
10°	1126.5	1126.5	1127.7	1124.1	1115.7	1115.7	1114.5	1118.1	1119.3	1121.7	1125.3
12.5°	1118.1	1118.1	1118.1	1114.5	1106.0	1104.8	1103.6	1107.2	1107.2	1108.4	1112.0
15°	1110.8	1108.4	1108.4	1104.8	1096.3	1093.9	1091.5	1092.7	1095.1	1093.9	1096.3
17.5°	1102.4	1100.0	1097.5	1093.9	1083.1	1079.4	1077.0	1078.2	1077.0	1075.8	1078.2
20°	1092.7	1089.1	1087.9	1081.9	1071.0	1064.9	1060.1	1057.7	1058.9	1055.3	1056.5
22.5°	1081.9	1077.0	1074.6	1067.4	1056.5	1049.3	1043.2	1038.4	1037.2	1032.3	1033.6
25°	1068.6	1062.5	1058.9	1052.9	1040.8	1032.3	1025.1	1017.9	1014.2	1008.2	1007.0
27.5°	1052.9	1046.8	1042.0	1036.0	1023.9	1013.0	1004.6	994.9	990.1	982.8	979.2
30°	1037.2	1029.9	1022.7	1017.9	1004.6	992.5	979.2	970.8	963.5	955.1	949.0
32.5°	1017.9	1010.6	1003.4	996.1	984.1	969.6	958.7	945.4	937.0	927.3	920.1
35°	998.5	988.9	981.6	972.0	961.1	944.2	930.9	917.6	906.8	895.9	887.5
37.5°	976.8	969.6	958.7	950.2	937.0	920.1	905.6	888.7	879.0	864.5	853.6
40°	956.3	947.8	937.0	926.1	912.8	893.5	877.8	858.5	847.6	830.7	819.8
42.5°	935.8	923.7	912.8	900.7	886.2	868.1	848.8	829.5	815.0	799.3	783.6
45°	912.8	899.5	886.2	873.0	858.5	840.4	819.8	799.3	781.2	766.7	747.4
47.5°	888.7	875.4	859.7	845.2	829.5	811.4	789.7	767.9	748.6	731.7	711.2
50°	864.5	851.2	834.3	818.6	800.5	782.4	759.5	734.1	713.6	691.9	673.7
52.5°	839.2	825.9	810.2	789.7	770.3	752.2	728.1	701.5	678.6	660.5	637.5
55°	813.8	800.5	782.4	761.9	742.6	719.6	696.7	670.1	644.8	623.0	600.1
57.5°	787.2	775.2	754.6	737.7	713.6	689.4	665.3	639.9	612.2	586.8	560.2
60°	760.7	747.4	728.1	707.6	683.4	659.3	633.9	606.1	577.1	549.4	525.2
62.5°	736.5	719.6	701.5	679.8	654.4	631.5	602.5	572.3	543.3	514.4	485.4
65°	708.8	690.6	673.7	652.0	625.4	598.9	569.9	539.7	508.3	476.9	448.0
67.5°	681.0	662.9	644.8	623.0	595.3	567.5	537.3	507.1	472.1	441.9	408.1
70°	653.2	638.7	615.8	592.8	567.5	537.3	507.1	474.5	438.3	405.7	370.7
72.5°	625.4	611.0	588.0	563.9	539.7	508.3	475.7	443.1	409.3	371.9	334.5
75°	598.9	580.8	560.2	537.3	511.9	479.3	446.7	412.9	373.1	338.1	299.4
77.5°	573.5	556.6	536.1	510.7	483.0	451.6	417.8	382.8	342.9	305.5	263.2
80°	545.8	528.9	508.3	483.0	455.2	425.0	388.8	352.6	313.9	272.9	229.4
82.5°	519.2	503.5	480.6	457.6	427.4	397.2	361.0	324.8	283.7	243.9	201.6
85°	491.4	475.7	454.0	429.8	400.9	368.3	334.5	298.2	257.2	216.1	173.9
87.5°	467.3	449.2	427.4	403.3	374.3	342.9	310.3	271.7	231.8	192.0	148.5
90°	441.9	425.0	403.3	379.1	350.2	318.8	285.0	248.7	210.1	169.0	128.0
92.5°	420.2	402.1	381.5	357.4	328.4	298.2	264.4	228.2	190.8	150.9	111.1
95°	398.5	380.3	361.0	336.9	307.9	277.7	243.9	208.9	172.7	134.0	96.6
97.5°	374.3	358.6	339.3	316.3	287.4	258.4	225.8	192.0	157.0	119.5	84.5
100°	355.0	336.9	318.8	294.6	268.0	240.3	207.7	175.1	141.3	106.3	73.7
102.5°	333.2	316.3	298.2	275.3	248.7	221.0	190.8	159.4	128.0	95.4	64.0
105°	312.7	297.0	277.7	256.0	230.6	204.1	175.1	146.1	115.9	84.5	56.7
107.5°	292.2	276.5	258.4	237.9	213.7	187.2	160.6	131.6	103.8	76.1	50.7
110°	271.7	257.2	240.3	219.8	196.8	172.7	147.3	120.7	93.0	67.6	44.7

TEST NUMBER: P1213482

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	253.6	239.1	222.2	202.8	181.1	158.2	134.0	108.7	83.3	60.4	38.6
115°	235.4	222.2	205.3	188.4	166.6	144.9	121.9	97.8	74.9	54.3	33.8
117.5°	217.3	204.1	188.4	171.5	152.1	131.6	109.9	86.9	67.6	48.3	30.2
120°	199.2	187.2	172.7	157.0	140.1	119.5	97.8	78.5	60.4	42.3	26.6
122.5°	182.3	171.5	158.2	143.7	125.6	106.3	88.1	71.2	54.3	37.4	21.7
125°	166.6	155.8	143.7	129.2	112.3	95.4	79.7	64.0	47.1	32.6	18.1
127.5°	150.9	140.1	128.0	114.7	101.4	85.7	71.2	56.7	42.3	29.0	15.7
130°	135.2	125.6	114.7	103.8	90.6	76.1	64.0	49.5	36.2	22.9	13.3
132.5°	119.5	112.3	102.6	91.8	79.7	68.8	55.5	43.5	31.4	20.5	12.1
135°	106.3	99.0	90.6	80.9	71.2	60.4	48.3	37.4	26.6	16.9	9.7
137.5°	94.2	88.1	79.7	71.2	62.8	51.9	42.3	31.4	21.7	14.5	7.2
140°	83.3	77.3	70.0	61.6	54.3	44.7	35.0	25.4	19.3	12.1	6.0
142.5°	72.4	66.4	60.4	53.1	45.9	37.4	29.0	21.7	15.7	9.7	6.0
145°	61.6	56.7	50.7	44.7	37.4	30.2	24.1	18.1	12.1	7.2	4.8
147.5°	50.7	47.1	41.1	36.2	30.2	24.1	19.3	14.5	9.7	6.0	3.6
150°	41.1	37.4	32.6	27.8	24.1	19.3	15.7	10.9	7.2	6.0	3.6
152.5°	31.4	29.0	25.4	22.9	19.3	14.5	10.9	8.5	6.0	4.8	2.4
155°	25.4	22.9	20.5	16.9	14.5	10.9	8.5	6.0	4.8	3.6	2.4
157.5°	18.1	16.9	14.5	12.1	9.7	7.2	6.0	6.0	3.6	2.4	1.2
160°	12.1	10.9	9.7	7.2	6.0	6.0	4.8	3.6	2.4	2.4	1.2
162.5°	7.2	6.0	6.0	6.0	4.8	4.8	3.6	2.4	2.4	1.2	1.2
165°	4.8	4.8	4.8	3.6	3.6	3.6	2.4	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: P1213482

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6
2.5°	1145.8	1142.2	1147.1	1155.5	1156.7	1155.5	1153.1	1156.7	1161.5	1160.3	1151.9
5°	1143.4	1138.6	1143.4	1151.9	1151.9	1150.7	1149.5	1153.1	1157.9	1156.7	1149.5
7.5°	1136.2	1131.4	1136.2	1143.4	1144.6	1142.2	1142.2	1145.8	1150.7	1149.5	1143.4
10°	1126.5	1121.7	1124.1	1132.6	1135.0	1132.6	1132.6	1136.2	1142.2	1141.0	1133.8
12.5°	1112.0	1108.4	1110.8	1118.1	1120.5	1119.3	1118.1	1122.9	1128.9	1128.9	1121.7
15°	1096.3	1091.5	1093.9	1102.4	1103.6	1101.2	1102.4	1106.0	1113.2	1113.2	1107.2
17.5°	1078.2	1072.2	1075.8	1081.9	1083.1	1083.1	1083.1	1087.9	1096.3	1095.1	1090.3
20°	1057.7	1049.3	1051.7	1057.7	1060.1	1060.1	1060.1	1068.6	1074.6	1074.6	1069.8
22.5°	1033.6	1027.5	1027.5	1033.6	1037.2	1036.0	1036.0	1043.2	1051.7	1050.5	1050.5
25°	1005.8	1001.0	998.5	1005.8	1007.0	1008.2	1010.6	1017.9	1027.5	1027.5	1028.7
27.5°	976.8	972.0	970.8	976.8	978.0	979.2	981.6	990.1	999.7	1001.0	1003.4
30°	949.0	941.8	939.4	944.2	946.6	947.8	947.8	961.1	969.6	973.2	978.0
32.5°	916.4	909.2	903.2	911.6	912.8	915.2	916.4	929.7	939.4	945.4	952.7
35°	883.8	871.8	869.3	875.4	877.8	879.0	881.4	895.9	909.2	914.0	923.7
37.5°	847.6	839.2	831.9	838.0	840.4	841.6	848.8	862.1	875.4	882.6	892.3
40°	813.8	802.9	796.9	800.5	802.9	804.1	812.6	827.1	842.8	851.2	863.3
42.5°	776.4	761.9	757.1	760.7	761.9	765.5	772.8	792.1	807.8	819.8	829.5
45°	738.9	728.1	717.2	720.8	722.0	724.5	735.3	755.8	772.8	787.2	798.1
47.5°	700.3	687.0	676.2	678.6	683.4	684.6	696.7	720.8	736.5	752.2	766.7
50°	661.7	643.6	635.1	635.1	637.5	643.6	659.3	683.4	700.3	718.4	734.1
52.5°	621.8	604.9	595.3	596.5	598.9	606.1	620.6	644.8	664.1	683.4	702.7
55°	582.0	563.9	554.2	551.8	554.2	563.9	580.8	606.1	625.4	648.4	668.9
57.5°	542.1	520.4	511.9	508.3	510.7	522.8	539.7	566.3	590.4	612.2	636.3
60°	498.7	481.8	467.3	458.8	464.9	480.6	498.7	526.4	551.8	575.9	602.5
62.5°	461.2	439.5	423.8	415.4	421.4	434.7	460.0	486.6	514.4	542.1	568.7
65°	419.0	397.2	379.1	370.7	376.7	392.4	417.8	446.7	476.9	504.7	536.1
67.5°	377.9	355.0	333.2	324.8	332.0	348.9	376.7	409.3	441.9	470.9	504.7
70°	338.1	312.7	289.8	283.7	288.6	311.5	338.1	370.7	404.5	438.3	473.3
72.5°	301.9	270.5	246.3	239.1	245.1	270.5	300.6	334.5	370.7	406.9	444.3
75°	259.6	230.6	204.1	195.6	202.8	225.8	263.2	299.4	338.1	376.7	411.7
77.5°	225.8	192.0	164.2	150.9	163.0	192.0	228.2	266.8	306.7	346.5	386.4
80°	190.8	155.8	125.6	111.1	124.4	155.8	192.0	234.2	278.9	318.8	355.0
82.5°	159.4	121.9	90.6	74.9	89.3	124.4	164.2	206.5	249.9	289.8	332.0
85°	130.4	91.8	59.2	42.3	62.8	94.2	136.4	179.9	224.6	265.6	306.7
87.5°	106.3	68.8	36.2	18.1	38.6	73.7	113.5	157.0	201.6	242.7	281.3
90°	86.9	49.5	19.3	2.4	22.9	55.5	94.2	136.4	178.7	221.0	259.6
92.5°	71.2	37.4	10.9	1.2	14.5	44.7	80.9	120.7	161.8	202.8	240.3
95°	59.2	29.0	7.2	1.2	10.9	35.0	68.8	107.5	146.1	185.9	223.4
97.5°	50.7	24.1	6.0	1.2	8.5	30.2	59.2	95.4	132.8	170.2	206.5
100°	43.5	19.3	4.8	1.2	7.2	25.4	51.9	84.5	119.5	155.8	190.8
102.5°	37.4	15.7	3.6	1.2	6.0	21.7	45.9	76.1	107.5	142.5	176.3
105°	32.6	13.3	3.6	1.2	4.8	19.3	41.1	67.6	99.0	130.4	163.0
107.5°	27.8	10.9	2.4	1.2	3.6	15.7	36.2	61.6	89.3	119.5	149.7
110°	24.1	9.7	2.4	1.2	3.6	14.5	31.4	55.5	80.9	108.7	137.6

TEST NUMBER: P1213482

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	20.5	7.2	2.4	1.2	2.4	12.1	27.8	49.5	73.7	99.0	126.8
115°	18.1	6.0	1.2	1.2	2.4	10.9	25.4	44.7	66.4	90.6	115.9
117.5°	14.5	4.8	1.2	1.2	1.2	8.5	21.7	39.8	60.4	83.3	106.3
120°	12.1	4.8	1.2	1.2	1.2	7.2	19.3	35.0	54.3	74.9	96.6
122.5°	10.9	3.6	1.2	1.2	1.2	6.0	16.9	31.4	48.3	67.6	88.1
125°	9.7	3.6	1.2	1.2	1.2	4.8	14.5	27.8	43.5	60.4	79.7
127.5°	7.2	3.6	1.2	1.2	1.2	3.6	13.3	24.1	38.6	54.3	71.2
130°	6.0	2.4	1.2	1.2	1.2	3.6	10.9	21.7	33.8	48.3	64.0
132.5°	4.8	2.4	1.2	1.2	1.2	2.4	8.5	16.9	29.0	42.3	56.7
135°	4.8	2.4	1.2	1.2	1.2	2.4	6.0	14.5	24.1	36.2	48.3
137.5°	4.8	1.2	1.2	1.2	1.2	2.4	4.8	10.9	19.3	29.0	39.8
140°	3.6	1.2	1.2	1.2	1.2	1.2	3.6	8.5	15.7	24.1	33.8
142.5°	3.6	1.2	1.2	1.2	1.2	1.2	3.6	6.0	12.1	19.3	26.6
145°	2.4	1.2	1.2	1.2	1.2	1.2	2.4	4.8	9.7	14.5	21.7
147.5°	2.4	1.2	1.2	1.2	1.2	1.2	2.4	3.6	7.2	12.1	16.9
150°	2.4	1.2	1.2	1.2	1.2	1.2	2.4	3.6	4.8	8.5	13.3
152.5°	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	3.6	6.0	8.5
155°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	3.6	4.8	6.0
157.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	3.6	4.8
160°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	3.6
162.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4
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: P1213482

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6
2.5°	1148.3	1139.8	1142.2	1141.0	1143.4	1147.1	1147.1	1145.8	1145.8	1143.4	1141.0
5°	1145.8	1137.4	1141.0	1139.8	1142.2	1145.8	1145.8	1144.6	1144.6	1141.0	1139.8
7.5°	1138.6	1132.6	1135.0	1135.0	1137.4	1141.0	1141.0	1139.8	1139.8	1136.2	1135.0
10°	1131.4	1124.1	1127.7	1127.7	1130.1	1135.0	1135.0	1133.8	1133.8	1130.1	1128.9
12.5°	1119.3	1112.0	1118.1	1119.3	1121.7	1126.5	1125.3	1125.3	1125.3	1121.7	1120.5
15°	1104.8	1100.0	1106.0	1107.2	1110.8	1116.9	1116.9	1116.9	1116.9	1113.2	1112.0
17.5°	1089.1	1085.5	1091.5	1093.9	1098.8	1104.8	1104.8	1106.0	1107.2	1104.8	1103.6
20°	1071.0	1068.6	1074.6	1079.4	1086.7	1092.7	1095.1	1096.3	1098.8	1096.3	1095.1
22.5°	1050.5	1050.5	1058.9	1063.7	1072.2	1078.2	1081.9	1085.5	1087.9	1085.5	1084.3
25°	1027.5	1031.1	1039.6	1048.0	1057.7	1063.7	1067.4	1072.2	1074.6	1073.4	1072.2
27.5°	1005.8	1010.6	1021.5	1029.9	1038.4	1048.0	1051.7	1057.7	1060.1	1060.1	1058.9
30°	980.4	987.7	999.7	1009.4	1020.3	1029.9	1034.8	1040.8	1044.4	1042.0	1043.2
32.5°	956.3	968.4	978.0	988.9	1001.0	1010.6	1016.7	1023.9	1027.5	1026.3	1027.5
35°	929.7	941.8	955.1	965.9	980.4	990.1	998.5	1004.6	1009.4	1008.2	1008.2
37.5°	900.7	916.4	929.7	944.2	957.5	968.4	976.8	984.1	988.9	988.9	988.9
40°	873.0	889.9	903.2	920.1	937.0	946.6	956.3	963.5	968.4	969.6	970.8
42.5°	842.8	860.9	876.6	894.7	911.6	923.7	934.5	943.0	947.8	950.2	949.0
45°	815.0	831.9	850.0	870.6	886.2	898.3	911.6	921.3	926.1	927.3	928.5
47.5°	783.6	802.9	823.5	844.0	859.7	875.4	887.5	897.1	901.9	905.6	905.6
50°	753.4	774.0	796.9	818.6	835.5	851.2	863.3	874.2	880.2	882.6	883.8
52.5°	725.7	745.0	769.1	790.9	807.8	823.5	839.2	851.2	857.3	859.7	859.7
55°	691.9	716.0	742.6	763.1	781.2	799.3	815.0	827.1	833.1	836.7	839.2
57.5°	660.5	685.8	713.6	735.3	757.1	774.0	788.4	804.1	809.0	813.8	815.0
60°	630.3	655.6	682.2	706.3	728.1	746.2	763.1	776.4	784.8	787.2	789.7
62.5°	598.9	625.4	653.2	677.4	700.3	722.0	737.7	749.8	759.5	763.1	765.5
65°	568.7	596.5	624.2	649.6	673.7	695.5	711.2	723.2	732.9	738.9	740.2
67.5°	536.1	566.3	595.3	621.8	646.0	668.9	684.6	696.7	706.3	713.6	714.8
70°	505.9	537.3	566.3	595.3	619.4	642.3	659.3	671.3	682.2	687.0	689.4
72.5°	476.9	509.5	539.7	568.7	592.8	615.8	633.9	646.0	656.8	662.9	664.1
75°	449.2	481.8	514.4	542.1	567.5	590.4	608.5	621.8	631.5	637.5	639.9
77.5°	421.4	455.2	487.8	515.6	542.1	565.1	580.8	596.5	606.1	613.4	613.4
80°	393.6	428.6	462.4	490.2	516.8	537.3	555.4	571.1	580.8	588.0	588.0
82.5°	369.5	403.3	435.9	463.7	490.2	513.2	531.3	545.8	556.6	561.5	562.7
85°	341.7	379.1	409.3	439.5	464.9	486.6	504.7	520.4	530.1	534.9	537.3
87.5°	318.8	355.0	387.6	414.1	439.5	461.2	481.8	495.0	504.7	510.7	513.2
90°	297.0	332.0	364.6	391.2	417.8	438.3	457.6	470.9	481.8	486.6	489.0
92.5°	277.7	312.7	344.1	370.7	396.0	419.0	437.1	450.4	460.0	464.9	468.5
95°	259.6	293.4	323.6	352.6	376.7	397.2	416.6	429.8	440.7	444.3	448.0
97.5°	241.5	274.1	304.3	332.0	357.4	376.7	394.8	408.1	416.6	422.6	426.2
100°	225.8	257.2	286.2	312.7	336.9	355.0	374.3	386.4	394.8	399.7	404.5
102.5°	208.9	240.3	268.0	293.4	318.8	335.7	353.8	365.8	373.1	381.5	381.5
105°	194.4	223.4	251.1	275.3	297.0	317.6	333.2	345.3	353.8	359.8	359.8
107.5°	178.7	207.7	234.2	259.6	280.1	299.4	313.9	324.8	334.5	338.1	341.7
110°	166.6	192.0	218.5	242.7	262.0	280.1	294.6	306.7	315.1	318.8	321.2

TEST NUMBER: P1213482

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	152.1	178.7	202.8	225.8	245.1	262.0	276.5	286.2	294.6	299.4	300.6
115°	140.1	165.4	187.2	208.9	229.4	243.9	257.2	266.8	275.3	278.9	281.3
117.5°	129.2	152.1	173.9	192.0	211.3	227.0	240.3	248.7	256.0	260.8	263.2
120°	118.3	140.1	159.4	177.5	195.6	210.1	222.2	230.6	239.1	242.7	242.7
122.5°	107.5	128.0	146.1	163.0	179.9	193.2	206.5	213.7	221.0	224.6	224.6
125°	97.8	117.1	134.0	149.7	165.4	177.5	188.4	196.8	204.1	206.5	206.5
127.5°	88.1	106.3	121.9	136.4	149.7	161.8	172.7	181.1	187.2	189.6	189.6
130°	79.7	95.4	109.9	124.4	137.6	147.3	158.2	165.4	169.0	172.7	173.9
132.5°	71.2	85.7	99.0	111.1	124.4	134.0	142.5	149.7	153.3	157.0	158.2
135°	62.8	76.1	88.1	100.2	111.1	120.7	128.0	134.0	138.9	141.3	142.5
137.5°	53.1	67.6	78.5	88.1	100.2	107.5	115.9	119.5	124.4	126.8	126.8
140°	44.7	55.5	67.6	77.3	86.9	94.2	101.4	107.5	111.1	112.3	112.3
142.5°	36.2	45.9	55.5	67.6	76.1	82.1	89.3	94.2	96.6	97.8	99.0
145°	29.0	36.2	44.7	55.5	65.2	72.4	76.1	80.9	83.3	84.5	85.7
147.5°	21.7	29.0	36.2	43.5	53.1	60.4	64.0	68.8	71.2	72.4	72.4
150°	16.9	21.7	26.6	33.8	41.1	49.5	54.3	58.0	59.2	60.4	60.4
152.5°	12.1	16.9	20.5	25.4	30.2	37.4	44.7	47.1	48.3	49.5	49.5
155°	8.5	12.1	14.5	18.1	21.7	27.8	33.8	37.4	38.6	39.8	39.8
157.5°	6.0	8.5	9.7	13.3	15.7	18.1	22.9	29.0	30.2	30.2	30.2
160°	3.6	4.8	6.0	8.5	9.7	12.1	14.5	18.1	21.7	21.7	21.7
162.5°	2.4	3.6	3.6	4.8	4.8	7.2	8.5	9.7	13.3	14.5	14.5
165°	1.2	2.4	2.4	2.4	2.4	2.4	3.6	3.6	6.0	7.2	7.2
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: P1213482

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6
2.5°	1142.2	1144.6	1143.4	1143.4	1143.4	1145.8	1143.4	1132.6	1135.0	1137.4	1139.8
5°	1141.0	1142.2	1142.2	1141.0	1141.0	1143.4	1141.0	1130.1	1132.6	1135.0	1136.2
7.5°	1136.2	1137.4	1137.4	1137.4	1136.2	1138.6	1135.0	1125.3	1125.3	1127.7	1128.9
10°	1130.1	1132.6	1131.4	1130.1	1130.1	1130.1	1127.7	1116.9	1116.9	1118.1	1119.3
12.5°	1122.9	1122.9	1122.9	1121.7	1120.5	1120.5	1118.1	1107.2	1106.0	1108.4	1107.2
15°	1113.2	1115.7	1113.2	1112.0	1109.6	1109.6	1106.0	1095.1	1092.7	1093.9	1092.7
17.5°	1104.8	1106.0	1103.6	1101.2	1098.8	1097.5	1093.9	1081.9	1078.2	1079.4	1077.0
20°	1096.3	1096.3	1093.9	1091.5	1087.9	1084.3	1079.4	1067.4	1061.3	1061.3	1056.5
22.5°	1085.5	1085.5	1083.1	1079.4	1075.8	1071.0	1066.2	1054.1	1044.4	1042.0	1038.4
25°	1073.4	1072.2	1071.0	1067.4	1060.1	1055.3	1050.5	1037.2	1026.3	1021.5	1015.4
27.5°	1058.9	1058.9	1055.3	1051.7	1044.4	1038.4	1032.3	1020.3	1005.8	999.7	991.3
30°	1043.2	1043.2	1039.6	1034.8	1027.5	1020.3	1013.0	998.5	984.1	975.6	965.9
32.5°	1027.5	1026.3	1022.7	1017.9	1010.6	999.7	993.7	979.2	962.3	952.7	939.4
35°	1008.2	1007.0	1003.4	997.3	987.7	979.2	969.6	956.3	937.0	924.9	910.4
37.5°	988.9	987.7	985.3	976.8	967.1	957.5	945.4	932.1	914.0	898.3	883.8
40°	969.6	968.4	963.5	957.5	945.4	933.3	921.3	908.0	888.7	870.6	854.9
42.5°	949.0	947.8	941.8	934.5	921.3	909.2	894.7	880.2	860.9	839.2	823.5
45°	928.5	926.1	920.1	911.6	897.1	883.8	869.3	852.4	833.1	812.6	792.1
47.5°	906.8	903.2	897.1	885.0	873.0	858.5	841.6	823.5	804.1	781.2	759.5
50°	882.6	880.2	873.0	862.1	847.6	833.1	813.8	795.7	772.8	751.0	724.5
52.5°	859.7	854.9	848.8	836.7	822.3	806.6	786.0	764.3	741.4	720.8	693.1
55°	835.5	833.1	824.7	815.0	796.9	778.8	759.5	736.5	711.2	687.0	660.5
57.5°	812.6	807.8	800.5	787.2	771.5	753.4	732.9	708.8	681.0	655.6	626.7
60°	789.7	782.4	774.0	761.9	745.0	725.7	703.9	678.6	650.8	623.0	592.8
62.5°	764.3	758.3	748.6	736.5	719.6	699.1	676.2	649.6	623.0	594.1	561.5
65°	738.9	732.9	723.2	711.2	694.3	671.3	647.2	620.6	590.4	562.7	527.6
67.5°	713.6	707.6	696.7	683.4	666.5	644.8	619.4	591.6	561.5	531.3	495.0
70°	688.2	681.0	671.3	656.8	639.9	617.0	591.6	562.7	532.5	499.9	463.7
72.5°	662.9	656.8	644.8	631.5	613.4	590.4	565.1	536.1	504.7	470.9	434.7
75°	637.5	630.3	621.8	606.1	586.8	565.1	538.5	509.5	475.7	443.1	405.7
77.5°	612.2	606.1	595.3	579.6	561.5	538.5	511.9	483.0	449.2	415.4	375.5
80°	586.8	579.6	571.1	556.6	536.1	513.2	485.4	456.4	422.6	387.6	347.7
82.5°	561.5	554.2	544.5	530.1	510.7	487.8	461.2	429.8	396.0	359.8	322.4
85°	536.1	530.1	519.2	504.7	484.2	461.2	434.7	406.9	370.7	334.5	297.0
87.5°	510.7	504.7	493.8	479.3	460.0	437.1	410.5	381.5	346.5	312.7	271.7
90°	486.6	481.8	470.9	456.4	437.1	414.1	390.0	358.6	324.8	291.0	252.4
92.5°	464.9	460.0	450.4	435.9	419.0	393.6	369.5	339.3	305.5	270.5	233.0
95°	445.5	439.5	429.8	416.6	396.0	374.3	350.2	320.0	287.4	252.4	216.1
97.5°	423.8	417.8	408.1	393.6	376.7	353.8	329.6	300.6	268.0	235.4	199.2
100°	402.1	396.0	385.2	373.1	356.2	333.2	310.3	281.3	251.1	219.8	184.7
102.5°	380.3	374.3	364.6	352.6	335.7	315.1	292.2	264.4	234.2	202.8	170.2
105°	359.8	353.8	344.1	332.0	316.3	295.8	271.7	247.5	218.5	188.4	157.0
107.5°	339.3	333.2	324.8	312.7	297.0	277.7	254.8	229.4	202.8	173.9	143.7
110°	318.8	313.9	304.3	293.4	277.7	258.4	237.9	213.7	187.2	160.6	131.6

TEST NUMBER: P1213482

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	299.4	294.6	285.0	272.9	259.6	241.5	221.0	198.0	172.7	147.3	119.5
115°	280.1	274.1	265.6	254.8	241.5	224.6	205.3	184.7	159.4	135.2	109.9
117.5°	260.8	256.0	247.5	236.7	224.6	207.7	189.6	170.2	146.1	123.2	100.2
120°	241.5	237.9	229.4	219.8	207.7	192.0	175.1	155.8	134.0	112.3	90.6
122.5°	223.4	219.8	211.3	202.8	190.8	176.3	160.6	142.5	123.2	102.6	83.3
125°	206.5	201.6	194.4	185.9	175.1	161.8	146.1	129.2	111.1	93.0	74.9
127.5°	188.4	184.7	179.9	170.2	159.4	147.3	132.8	118.3	101.4	84.5	67.6
130°	173.9	169.0	163.0	155.8	146.1	134.0	120.7	106.3	91.8	76.1	59.2
132.5°	157.0	152.1	147.3	140.1	131.6	120.7	108.7	95.4	82.1	67.6	53.1
135°	141.3	137.6	132.8	125.6	117.1	108.7	96.6	84.5	72.4	59.2	47.1
137.5°	126.8	123.2	118.3	113.5	105.0	96.6	85.7	74.9	64.0	51.9	41.1
140°	112.3	109.9	105.0	100.2	93.0	84.5	74.9	65.2	55.5	44.7	35.0
142.5°	97.8	95.4	91.8	86.9	80.9	73.7	65.2	56.7	47.1	38.6	30.2
145°	84.5	83.3	79.7	74.9	70.0	62.8	55.5	48.3	39.8	32.6	24.1
147.5°	71.2	70.0	67.6	64.0	59.2	53.1	47.1	39.8	33.8	26.6	19.3
150°	59.2	58.0	56.7	51.9	49.5	43.5	38.6	32.6	27.8	20.5	15.7
152.5°	48.3	48.3	45.9	42.3	39.8	35.0	31.4	26.6	21.7	16.9	12.1
155°	38.6	37.4	36.2	33.8	31.4	27.8	24.1	20.5	16.9	12.1	8.5
157.5°	30.2	29.0	27.8	25.4	22.9	21.7	18.1	14.5	10.9	8.5	6.0
160°	21.7	20.5	19.3	18.1	16.9	14.5	12.1	9.7	7.2	4.8	3.6
162.5°	14.5	13.3	13.3	12.1	10.9	8.5	7.2	6.0	4.8	3.6	2.4
165°	7.2	7.2	6.0	6.0	4.8	3.6	3.6	3.6	2.4	2.4	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: P1213482

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6	1144.6
2.5°	1138.6	1138.6	1143.4	1142.2	1138.6	1145.8	1154.3
5°	1135.0	1135.0	1138.6	1138.6	1135.0	1142.2	1149.5
7.5°	1128.9	1127.7	1131.4	1131.4	1126.5	1132.6	1141.0
10°	1118.1	1116.9	1120.5	1120.5	1115.7	1121.7	1128.9
12.5°	1106.0	1103.6	1107.2	1106.0	1101.2	1107.2	1114.5
15°	1090.3	1089.1	1091.5	1089.1	1084.3	1090.3	1097.5
17.5°	1074.6	1071.0	1072.2	1072.2	1063.7	1069.8	1075.8
20°	1054.1	1049.3	1050.5	1049.3	1043.2	1046.8	1054.1
22.5°	1033.6	1026.3	1026.3	1025.1	1017.9	1022.7	1028.7
25°	1008.2	999.7	999.7	998.5	990.1	993.7	999.7
27.5°	982.8	974.4	970.8	969.6	961.1	961.1	969.6
30°	956.3	944.2	941.8	938.2	929.7	929.7	937.0
32.5°	930.9	914.0	909.2	904.4	895.9	894.7	903.2
35°	897.1	883.8	875.4	870.6	860.9	858.5	865.7
37.5°	869.3	852.4	840.4	834.3	824.7	821.0	830.7
40°	839.2	821.0	805.4	801.7	787.2	782.4	790.9
42.5°	805.4	786.0	770.3	763.1	752.2	747.4	748.6
45°	771.5	751.0	734.1	724.5	713.6	705.1	710.0
47.5°	736.5	718.4	697.9	683.4	670.1	664.1	666.5
50°	701.5	679.8	660.5	644.8	629.1	621.8	626.7
52.5°	666.5	643.6	621.8	604.9	586.8	579.6	580.8
55°	632.7	608.5	583.2	565.1	548.2	537.3	534.9
57.5°	598.9	572.3	545.8	525.2	503.5	493.8	490.2
60°	562.7	534.9	507.1	483.0	460.0	449.2	444.3
62.5°	528.9	498.7	467.3	441.9	419.0	404.5	400.9
65°	496.3	461.2	429.8	400.9	375.5	359.8	355.0
67.5°	461.2	425.0	391.2	359.8	335.7	315.1	312.7
70°	428.6	390.0	352.6	320.0	293.4	272.9	263.2
72.5°	396.0	356.2	317.6	282.5	248.7	229.4	222.2
75°	364.6	323.6	282.5	246.3	208.9	185.9	178.7
77.5°	335.7	293.4	249.9	210.1	175.1	146.1	136.4
80°	307.9	264.4	218.5	177.5	140.1	108.7	97.8
82.5°	278.9	237.9	190.8	147.3	108.7	76.1	62.8
85°	253.6	212.5	165.4	121.9	83.3	48.3	33.8
87.5°	233.0	188.4	146.1	102.6	62.8	27.8	9.7
90°	212.5	169.0	126.8	84.5	47.1	15.7	1.2
92.5°	194.4	153.3	111.1	72.4	36.2	10.9	1.2
95°	177.5	137.6	97.8	60.4	29.0	7.2	1.2
97.5°	161.8	124.4	86.9	51.9	24.1	6.0	1.2
100°	148.5	112.3	77.3	45.9	20.5	4.8	1.2
102.5°	135.2	101.4	68.8	39.8	18.1	3.6	1.2
105°	124.4	91.8	61.6	36.2	15.7	3.6	1.2
107.5°	113.5	83.3	55.5	31.4	13.3	2.4	1.2
110°	102.6	76.1	49.5	27.8	12.1	2.4	1.2

TEST NUMBER: P1213482

CATALOG NUMBER: 4SNLED-LD5-58SL-LW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	94.2	68.8	44.7	25.4	9.7	2.4	1.2
115°	85.7	61.6	39.8	21.7	8.5	1.2	1.2
117.5°	77.3	55.5	35.0	19.3	7.2	1.2	1.2
120°	70.0	49.5	31.4	16.9	6.0	1.2	1.2
122.5°	62.8	44.7	27.8	14.5	4.8	1.2	1.2
125°	56.7	39.8	24.1	12.1	3.6	1.2	1.2
127.5°	50.7	35.0	21.7	10.9	3.6	1.2	1.2
130°	44.7	31.4	18.1	8.5	2.4	1.2	1.2
132.5°	39.8	26.6	15.7	7.2	2.4	1.2	1.2
135°	35.0	22.9	13.3	4.8	2.4	1.2	1.2
137.5°	30.2	19.3	10.9	3.6	1.2	1.2	1.2
140°	25.4	16.9	8.5	3.6	1.2	1.2	1.2
142.5°	21.7	13.3	6.0	2.4	1.2	1.2	1.2
145°	16.9	10.9	4.8	2.4	1.2	1.2	1.2
147.5°	13.3	8.5	3.6	2.4	1.2	1.2	1.2
150°	9.7	6.0	3.6	1.2	1.2	1.2	1.2
152.5°	7.2	4.8	2.4	1.2	1.2	1.2	1.2
155°	4.8	3.6	2.4	1.2	1.2	1.2	1.2
157.5°	3.6	2.4	1.2	1.2	1.2	1.2	1.2
160°	2.4	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)