

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: P1213827

Luminaire Tested: 4SNLED-LD5-56SL-LW-UNV-L940-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213827
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-LD5-56SL-LW-UNV-L940-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
WIDE FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

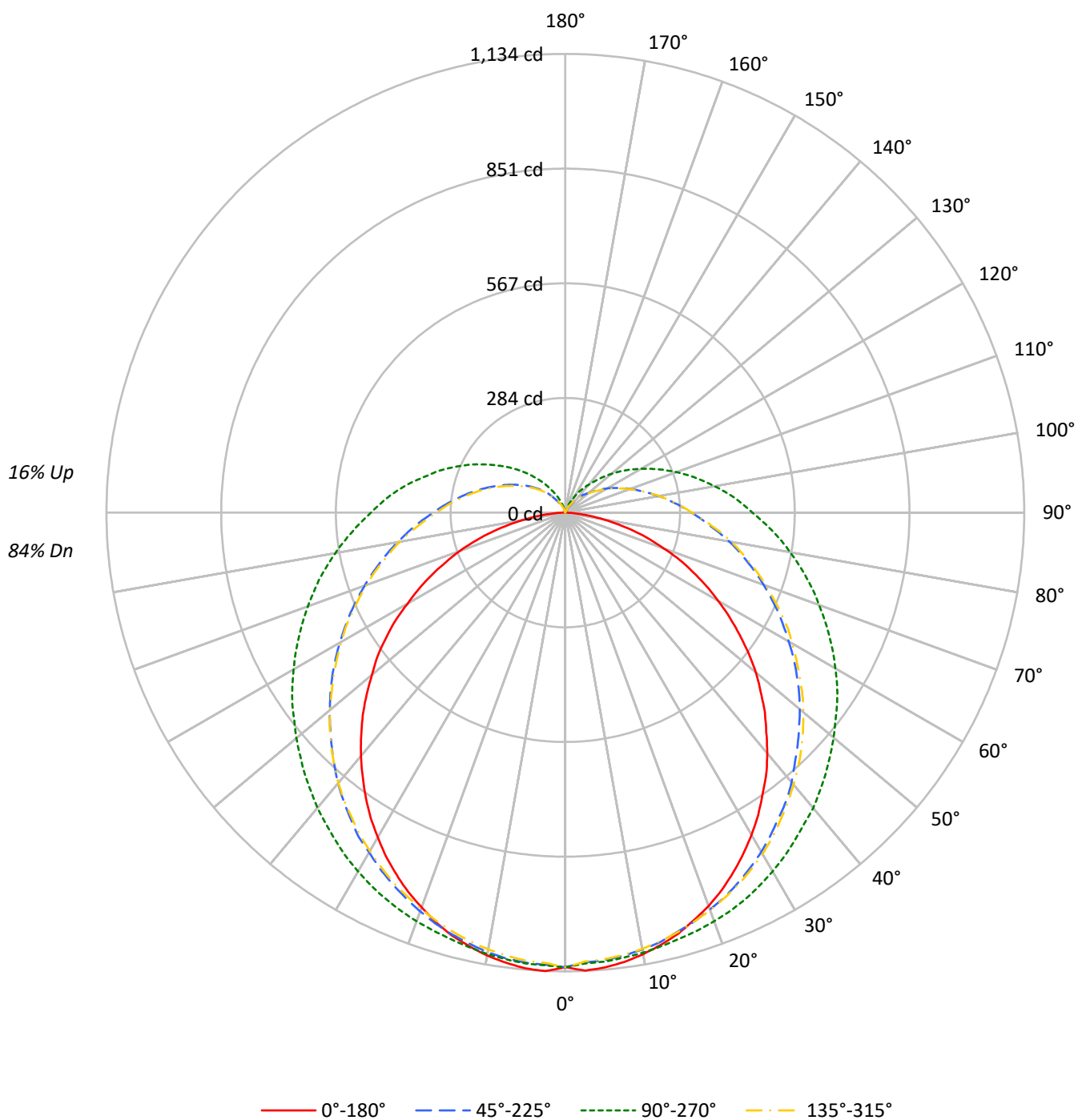
Lumens per Lamp: N/A
Luminaire Lumens: 4882.0 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.36 / 1.44
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Semi-Direct

Input Watts (W): 52
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			0
RW	70	50	30	10	70	50	30	10	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	84	84	84
1	102	96	91	86	98	92	87	83	85	81	77	78	75	72	72	70	67	64	64	64
2	92	82	74	68	87	79	72	66	73	67	62	67	62	58	62	58	54	51	51	51
3	83	71	62	55	79	69	60	54	63	56	51	58	52	48	54	49	45	42	42	42
4	76	63	53	46	72	60	52	45	56	48	42	51	45	40	47	42	38	35	35	35
5	69	56	46	39	66	54	45	38	50	42	36	46	39	34	42	37	33	30	30	30
6	64	50	41	34	61	48	39	33	45	37	31	41	35	30	38	33	28	26	26	26
7	59	45	36	30	56	43	35	29	40	33	28	38	31	26	35	29	25	23	23	23
8	55	41	32	26	52	40	31	26	37	30	24	34	28	23	32	26	22	20	20	20
9	51	37	29	23	49	36	28	23	34	27	22	32	25	21	30	24	20	18	18	18
10	48	34	26	21	46	33	26	21	31	24	20	29	23	19	27	22	18	16	16	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9081	9081	9081	9081
5°	9128	8751	9148	8789
10°	9045	8502	9073	8530
15°	8940	8289	8979	8299
20°	8799	8134	8829	8134
25°	8626	7996	8678	7987
30°	8431	7854	8496	7854
35°	8205	7723	8297	7732
40°	7981	7645	8079	7645
45°	7724	7564	7842	7574
50°	7456	7516	7557	7537
55°	7082	7523	7306	7556
60°	6688	7546	6906	7592
65°	6245	7622	6521	7697
70°	5623	7762	6062	7872
75°	4904	8016	5369	8169
80°	3795	8392	4313	8586
85°	2268	8994	2835	9245

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 270°

Vertical Angle: 90°

Luminance: 10336 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.4	2.2
10°-20°	305.9	6.3
20°-30°	469.1	9.6
30°-40°	578.7	11.9
40°-50°	627.8	12.9
50°-60°	618.8	12.7
60°-70°	559.5	11.5
70°-80°	466.1	9.5
80°-90°	361.0	7.4
90°-100°	273.8	5.6
100°-110°	202.6	4.2
110°-120°	140.9	2.9
120°-130°	89.9	1.8
130°-140°	50.5	1.0
140°-150°	23.0	0.5
150°-160°	7.1	0.1
160°-170°	0.9	0.0
170°-180°	0.0	0.0
0°-30°	881.4	18.1
0°-40°	1460.1	29.9
0°-60°	2706.7	55.4
0°-90°	4093.2	83.8
90°-120°	617.3	12.6
90°-150°	780.7	16.0
90°-180°	789.0	16.2
0°-180°	4882.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1124	1124	1124	1124	1124	
5°	1128	1114	1131	1119	1128	107
15°	1078	1090	1082	1092	1078	304
25°	982	1054	987	1053	982	452
35°	850	989	859	990	850	532
45°	697	910	708	912	697	537
55°	525	820	542	824	525	470
65°	348	720	364	727	348	345
75°	175	616	192	628	175	186
85°	33	513	42	528	33	40
90°	1	462	2	480	1	2
95°	1	420	1	440	1	1
105°	1	333	1	353	1	1
115°	1	254	1	276	1	1
125°	1	182	1	203	1	1
135°	1	118	1	140	1	1
145°	1	69	1	84	1	1
155°	1	28	1	39	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°	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7
2.5°	1133.2	1133.2	1132.0	1129.6	1130.8	1134.4	1132.0	1126.1	1122.5	1113.0	1115.4
5°	1128.4	1128.4	1127.2	1124.9	1126.1	1130.8	1128.4	1123.7	1119.0	1110.7	1114.2
7.5°	1120.1	1120.1	1119.0	1116.6	1119.0	1123.7	1121.3	1116.6	1113.0	1104.7	1108.3
10°	1108.3	1109.5	1108.3	1104.7	1109.5	1114.2	1113.0	1107.1	1103.5	1096.4	1100.0
12.5°	1094.1	1095.2	1094.1	1092.9	1095.2	1102.4	1100.0	1095.2	1092.9	1086.9	1090.5
15°	1077.5	1078.7	1076.3	1076.3	1078.7	1085.8	1085.8	1081.0	1078.7	1072.7	1079.8
17.5°	1056.1	1057.3	1056.1	1056.1	1058.5	1065.6	1066.8	1064.4	1062.1	1059.7	1066.8
20°	1034.8	1033.6	1033.6	1032.4	1037.2	1047.8	1046.6	1046.6	1044.3	1044.3	1052.6
22.5°	1009.9	1009.9	1008.7	1008.7	1014.6	1024.1	1024.1	1026.5	1024.1	1028.9	1036.0
25°	981.5	982.6	981.5	983.8	988.6	999.2	1000.4	1004.0	1005.2	1009.9	1018.2
27.5°	951.8	953.0	951.8	954.2	962.5	970.8	976.7	981.5	982.6	989.8	1000.4
30°	919.8	919.8	921.0	923.4	932.9	945.9	950.6	956.6	956.6	968.4	979.1
32.5°	886.6	886.6	886.6	891.4	902.0	917.4	923.4	930.5	932.9	944.7	956.6
35°	849.9	851.1	851.1	854.6	868.8	884.3	892.6	900.9	905.6	919.8	931.7
37.5°	815.5	817.9	814.3	819.1	839.2	852.3	861.7	870.0	878.3	897.3	906.8
40°	776.4	778.8	777.6	787.1	803.7	820.2	830.9	839.2	851.1	870.0	880.7
42.5°	734.9	737.3	739.6	750.3	768.1	784.7	797.7	808.4	822.6	839.2	857.0
45°	697.0	697.0	700.5	713.6	732.5	750.3	765.7	777.6	794.2	812.0	829.7
47.5°	654.3	655.5	660.2	675.6	695.8	717.1	731.3	746.8	764.5	783.5	803.7
50°	615.2	615.2	622.3	638.9	657.9	681.6	697.0	714.8	733.7	756.2	776.4
52.5°	570.1	572.5	583.2	598.6	623.5	644.8	662.6	681.6	704.1	727.8	750.3
55°	525.1	529.8	538.1	559.5	585.6	605.7	627.0	650.7	672.1	698.2	724.2
57.5°	481.2	484.8	497.8	519.2	546.4	571.3	593.9	616.4	642.4	668.5	695.8
60°	436.2	440.9	456.4	477.7	507.3	533.4	559.5	583.2	610.4	637.7	666.2
62.5°	393.5	397.1	414.9	439.8	469.4	497.8	523.9	552.4	582.0	608.1	636.5
65°	348.5	354.4	374.6	397.1	431.5	459.9	489.5	520.4	551.2	579.6	606.9
67.5°	307.0	310.6	331.9	358.0	392.3	424.3	455.2	488.4	520.4	550.0	577.3
70°	258.4	270.3	291.6	318.9	355.6	388.8	422.0	456.4	490.7	521.5	547.6
72.5°	218.1	227.6	251.3	280.9	316.5	355.6	390.0	426.7	461.1	493.1	520.4
75°	175.4	184.9	212.2	245.4	282.1	323.6	359.2	397.1	432.6	464.6	493.1
77.5°	133.9	145.8	175.4	209.8	250.1	292.8	329.5	367.5	404.2	438.6	467.0
80°	96.0	109.1	141.1	180.2	219.3	262.0	302.3	340.2	376.9	411.3	440.9
82.5°	61.6	75.9	110.2	149.4	190.8	233.5	275.0	312.9	349.7	384.0	414.9
85°	33.2	48.6	84.2	123.3	164.8	207.4	248.9	289.2	324.8	356.8	390.0
87.5°	9.5	28.4	62.8	101.9	144.6	183.7	224.0	264.3	299.9	334.3	363.9
90°	1.2	16.6	47.4	84.2	125.6	163.6	203.9	241.8	277.4	311.7	341.4
92.5°	1.2	10.7	36.7	69.9	107.9	147.0	187.3	224.0	257.2	291.6	321.2
95°	1.2	8.3	29.6	59.3	94.8	131.6	169.5	205.1	239.4	271.4	301.1
97.5°	1.2	5.9	23.7	51.0	83.0	117.3	154.1	189.7	222.8	253.7	280.9
100°	1.2	4.7	19.0	43.9	72.3	105.5	138.7	173.1	205.1	234.7	263.1
102.5°	1.2	3.6	16.6	36.7	64.0	93.6	125.6	157.6	188.5	216.9	245.4
105°	1.2	3.6	14.2	32.0	56.9	84.2	113.8	144.6	173.1	200.3	226.4
107.5°	1.2	2.4	11.9	27.3	49.8	75.9	103.1	132.8	158.8	184.9	209.8
110°	1.2	2.4	9.5	24.9	43.9	67.6	93.6	120.9	145.8	170.7	194.4

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	1.2	2.4	8.3	21.3	37.9	60.5	84.2	109.1	132.8	157.6	179.0
115°	1.2	2.4	7.1	19.0	35.6	52.2	75.9	98.4	122.1	144.6	164.8
117.5°	1.2	2.4	5.9	15.4	30.8	47.4	66.4	88.9	110.2	131.6	150.5
120°	1.2	2.4	4.7	14.2	27.3	42.7	59.3	79.4	99.6	119.7	139.9
122.5°	1.2	1.2	4.7	11.9	23.7	37.9	54.5	69.9	88.9	107.9	125.6
125°	1.2	1.2	4.7	10.7	20.2	34.4	48.6	62.8	79.4	96.0	111.4
127.5°	1.2	1.2	3.6	8.3	17.8	29.6	42.7	58.1	69.9	85.3	100.8
130°	1.2	1.2	3.6	7.1	15.4	24.9	37.9	51.0	65.2	75.9	88.9
132.5°	1.2	1.2	3.6	5.9	11.9	20.2	32.0	43.9	56.9	68.7	79.4
135°	1.2	1.2	2.4	4.7	9.5	16.6	26.1	36.7	49.8	61.6	72.3
137.5°	1.2	1.2	2.4	4.7	7.1	14.2	20.2	29.6	41.5	52.2	62.8
140°	1.2	1.2	2.4	3.6	5.9	10.7	16.6	23.7	33.2	42.7	54.5
142.5°	1.2	1.2	1.2	3.6	4.7	8.3	13.0	19.0	26.1	34.4	43.9
145°	1.2	1.2	1.2	3.6	4.7	5.9	10.7	15.4	20.2	26.1	34.4
147.5°	1.2	1.2	1.2	2.4	3.6	4.7	8.3	11.9	15.4	20.2	24.9
150°	1.2	1.2	1.2	2.4	3.6	4.7	5.9	8.3	11.9	16.6	20.2
152.5°	1.2	1.2	1.2	2.4	2.4	3.6	4.7	5.9	8.3	11.9	14.2
155°	1.2	1.2	1.2	1.2	2.4	3.6	4.7	4.7	5.9	8.3	10.7
157.5°	1.2	1.2	1.2	1.2	2.4	2.4	3.6	3.6	4.7	4.7	7.1
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°	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7
2.5°	1115.4	1116.6	1120.1	1120.1	1117.8	1117.8	1116.6	1115.4	1116.6	1119.0	1119.0
5°	1113.0	1114.2	1117.8	1119.0	1116.6	1115.4	1115.4	1114.2	1115.4	1117.8	1117.8
7.5°	1108.3	1109.5	1113.0	1114.2	1111.8	1111.8	1110.7	1109.5	1111.8	1113.0	1113.0
10°	1101.2	1102.4	1107.1	1108.3	1107.1	1105.9	1105.9	1104.7	1105.9	1108.3	1108.3
12.5°	1091.7	1094.1	1100.0	1100.0	1100.0	1098.8	1098.8	1097.6	1098.8	1101.2	1100.0
15°	1081.0	1085.8	1090.5	1092.9	1092.9	1092.9	1091.7	1090.5	1092.9	1094.1	1092.9
17.5°	1069.2	1075.1	1082.2	1084.6	1084.6	1085.8	1084.6	1083.4	1085.8	1085.8	1084.6
20°	1057.3	1063.2	1070.4	1072.7	1075.1	1076.3	1076.3	1075.1	1076.3	1077.5	1076.3
22.5°	1041.9	1049.0	1057.3	1060.9	1063.2	1065.6	1065.6	1065.6	1066.8	1068.0	1065.6
25°	1025.3	1033.6	1043.1	1046.6	1051.4	1052.6	1053.8	1053.8	1054.9	1056.1	1052.6
27.5°	1007.5	1017.0	1026.5	1032.4	1036.0	1038.3	1038.3	1039.5	1040.7	1041.9	1038.3
30°	986.2	1000.4	1008.7	1013.5	1018.2	1021.8	1022.9	1024.1	1025.3	1026.5	1022.9
32.5°	967.2	979.1	989.8	995.7	1001.6	1006.3	1007.5	1007.5	1009.9	1009.9	1006.3
35°	944.7	958.9	969.6	975.5	982.6	986.2	988.6	988.6	990.9	990.9	987.4
37.5°	922.2	936.4	948.3	955.4	963.7	968.4	969.6	969.6	972.0	972.0	967.2
40°	898.5	913.9	926.9	935.2	942.3	948.3	949.4	953.0	953.0	951.8	947.1
42.5°	874.8	889.0	903.2	912.7	922.2	928.1	930.5	931.7	931.7	930.5	926.9
45°	848.7	865.3	878.3	890.2	899.7	905.6	909.1	910.3	910.3	908.0	904.4
47.5°	823.8	840.4	853.4	866.5	876.0	883.1	886.6	887.8	886.6	885.4	881.9
50°	797.7	816.7	829.7	842.8	852.3	858.2	864.1	865.3	864.1	862.9	855.8
52.5°	770.5	790.6	804.8	817.9	828.5	835.7	840.4	841.6	841.6	839.2	834.5
55°	743.2	761.0	778.8	793.0	804.8	812.0	817.9	820.2	817.9	815.5	809.6
57.5°	718.3	734.9	752.7	768.1	779.9	789.4	794.2	796.5	794.2	790.6	784.7
60°	688.7	706.5	726.6	740.8	753.9	763.4	765.7	770.5	768.1	764.5	758.6
62.5°	660.2	681.6	699.3	717.1	727.8	738.5	743.2	745.6	743.2	739.6	733.7
65°	630.6	654.3	672.1	689.9	701.7	712.4	718.3	719.5	717.1	713.6	707.6
67.5°	603.3	625.9	644.8	663.8	674.5	685.1	691.0	693.4	691.0	686.3	680.4
70°	576.1	598.6	621.1	635.3	648.4	660.2	663.8	667.3	665.0	660.2	653.1
72.5°	548.8	572.5	595.0	609.3	623.5	634.2	638.9	642.4	640.1	635.3	627.0
75°	520.4	545.3	567.8	583.2	597.4	608.1	612.8	616.4	614.0	609.3	599.8
77.5°	494.3	519.2	540.5	557.1	571.3	580.8	589.1	590.3	587.9	583.2	573.7
80°	467.0	491.9	514.4	531.0	545.3	554.7	560.7	564.2	561.8	557.1	547.6
82.5°	443.3	465.8	488.4	505.0	519.2	531.0	535.8	539.3	538.1	531.0	523.9
85°	417.2	443.3	461.1	478.9	493.1	505.0	508.5	513.2	512.1	506.1	496.7
87.5°	391.2	417.2	438.6	456.4	469.4	478.9	484.8	487.2	486.0	480.1	469.4
90°	369.8	393.5	414.9	433.8	444.5	455.2	461.1	462.3	462.3	455.2	446.9
92.5°	349.7	372.2	393.5	411.3	424.3	433.8	438.6	440.9	439.8	433.8	424.3
95°	327.2	352.0	372.2	390.0	403.0	412.5	417.2	419.6	418.4	412.5	403.0
97.5°	308.2	330.7	350.9	367.5	380.5	390.0	394.7	397.1	397.1	391.2	381.7
100°	289.2	311.7	330.7	347.3	359.2	368.6	373.4	374.6	373.4	368.6	359.2
102.5°	270.3	291.6	310.6	326.0	339.0	347.3	352.0	353.2	353.2	347.3	337.8
105°	251.3	272.6	290.4	307.0	317.7	326.0	329.5	333.1	331.9	327.2	317.7
107.5°	233.5	254.8	271.4	286.8	297.5	305.8	309.4	312.9	311.7	307.0	297.5
110°	216.9	237.1	252.5	267.9	277.4	285.7	291.6	292.8	290.4	285.7	277.4

TEST NUMBER: P1213827

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	201.5	219.3	234.7	248.9	259.6	265.5	270.3	272.6	270.3	265.5	259.6
115°	184.9	202.7	218.1	231.1	240.6	247.7	251.3	253.7	251.3	246.5	240.6
117.5°	169.5	186.1	201.5	214.5	222.8	228.8	232.3	234.7	232.3	228.8	222.8
120°	156.5	170.7	184.9	196.8	206.2	211.0	214.5	216.9	215.7	211.0	205.1
122.5°	141.1	156.5	169.5	181.4	189.7	194.4	196.8	199.1	198.0	194.4	188.5
125°	128.0	141.1	154.1	164.8	173.1	177.8	180.2	182.5	181.4	177.8	170.7
127.5°	113.8	128.0	138.7	149.4	155.3	162.4	163.6	165.9	164.8	161.2	155.3
130°	103.1	113.8	124.5	133.9	141.1	145.8	148.2	149.4	147.0	144.6	138.7
132.5°	90.1	101.9	111.4	119.7	124.5	129.2	131.6	132.8	132.8	129.2	124.5
135°	80.6	88.9	97.2	105.5	110.2	115.0	117.3	118.5	117.3	115.0	110.2
137.5°	72.3	79.4	85.3	92.5	98.4	100.8	103.1	103.1	101.9	100.8	97.2
140°	62.8	71.1	77.0	81.8	86.5	87.7	90.1	90.1	88.9	87.7	85.3
142.5°	53.3	60.5	66.4	72.3	75.9	78.2	79.4	80.6	79.4	78.2	74.7
145°	42.7	51.0	56.9	60.5	65.2	66.4	67.6	68.7	67.6	66.4	62.8
147.5°	33.2	40.3	46.2	51.0	54.5	55.7	56.9	58.1	56.9	54.5	53.3
150°	23.7	29.6	36.7	41.5	43.9	46.2	46.2	46.2	47.4	45.0	42.7
152.5°	19.0	21.3	26.1	30.8	34.4	35.6	36.7	36.7	35.6	35.6	33.2
155°	13.0	15.4	19.0	22.5	26.1	27.3	28.4	28.4	27.3	27.3	26.1
157.5°	8.3	10.7	13.0	15.4	19.0	20.2	21.3	21.3	21.3	20.2	19.0
160°	4.7	5.9	7.1	9.5	11.9	13.0	14.2	14.2	14.2	14.2	13.0
162.5°	3.6	3.6	3.6	4.7	5.9	7.1	8.3	8.3	8.3	8.3	7.1
165°	2.4	2.4	2.4	2.4	2.4	3.6	4.7	4.7	4.7	4.7	4.7
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213827

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7
2.5°	1117.8	1117.8	1119.0	1116.6	1109.5	1110.7	1110.7	1115.4	1117.8	1119.0	1124.9
5°	1115.4	1115.4	1117.8	1114.2	1108.3	1108.3	1108.3	1113.0	1114.2	1116.6	1121.3
7.5°	1111.8	1111.8	1113.0	1109.5	1102.4	1102.4	1101.2	1105.9	1108.3	1109.5	1114.2
10°	1105.9	1105.9	1107.1	1103.5	1095.2	1095.2	1094.1	1097.6	1098.8	1101.2	1104.7
12.5°	1097.6	1097.6	1097.6	1094.1	1085.8	1084.6	1083.4	1086.9	1086.9	1088.1	1091.7
15°	1090.5	1088.1	1088.1	1084.6	1076.3	1073.9	1071.5	1072.7	1075.1	1073.9	1076.3
17.5°	1082.2	1079.8	1077.5	1073.9	1063.2	1059.7	1057.3	1058.5	1057.3	1056.1	1058.5
20°	1072.7	1069.2	1068.0	1062.1	1051.4	1045.5	1040.7	1038.3	1039.5	1036.0	1037.2
22.5°	1062.1	1057.3	1054.9	1047.8	1037.2	1030.1	1024.1	1019.4	1018.2	1013.5	1014.6
25°	1049.0	1043.1	1039.5	1033.6	1021.8	1013.5	1006.3	999.2	995.7	989.8	988.6
27.5°	1033.6	1027.7	1022.9	1017.0	1005.2	994.5	986.2	976.7	972.0	964.9	961.3
30°	1018.2	1011.1	1004.0	999.2	986.2	974.3	961.3	953.0	945.9	937.6	931.7
32.5°	999.2	992.1	985.0	977.9	966.0	951.8	941.2	928.1	919.8	910.3	903.2
35°	980.3	970.8	963.7	954.2	943.5	926.9	913.9	900.9	890.2	879.5	871.2
37.5°	958.9	951.8	941.2	932.9	919.8	903.2	889.0	872.4	862.9	848.7	838.0
40°	938.8	930.5	919.8	909.1	896.1	877.1	861.7	842.8	832.1	815.5	804.8
42.5°	918.6	906.8	896.1	884.3	870.0	852.3	833.3	814.3	800.1	784.7	769.3
45°	896.1	883.1	870.0	857.0	842.8	825.0	804.8	784.7	766.9	752.7	733.7
47.5°	872.4	859.4	844.0	829.7	814.3	796.5	775.2	753.9	734.9	718.3	698.2
50°	848.7	835.7	819.1	803.7	785.9	768.1	745.6	720.7	700.5	679.2	661.4
52.5°	823.8	810.8	795.4	775.2	756.2	738.5	714.8	688.7	666.2	648.4	625.9
55°	798.9	785.9	768.1	747.9	729.0	706.5	683.9	657.9	633.0	611.6	589.1
57.5°	772.8	761.0	740.8	724.2	700.5	676.8	653.1	628.2	601.0	576.1	550.0
60°	746.8	733.7	714.8	694.6	670.9	647.2	622.3	595.0	566.6	539.3	515.6
62.5°	723.1	706.5	688.7	667.3	642.4	619.9	591.5	561.8	533.4	505.0	476.5
65°	695.8	678.0	661.4	640.1	614.0	587.9	559.5	529.8	499.0	468.2	439.8
67.5°	668.5	650.7	633.0	611.6	584.4	557.1	527.5	497.8	463.5	433.8	400.6
70°	641.3	627.0	604.5	582.0	557.1	527.5	497.8	465.8	430.3	398.3	363.9
72.5°	614.0	599.8	577.3	553.5	529.8	499.0	467.0	435.0	401.8	365.1	328.3
75°	587.9	570.1	550.0	527.5	502.6	470.6	438.6	405.4	366.3	331.9	294.0
77.5°	563.0	546.4	526.3	501.4	474.1	443.3	410.1	375.7	336.6	299.9	258.4
80°	535.8	519.2	499.0	474.1	446.9	417.2	381.7	346.1	308.2	267.9	225.2
82.5°	509.7	494.3	471.8	449.2	419.6	390.0	354.4	318.9	278.6	239.4	198.0
85°	482.4	467.0	445.7	422.0	393.5	361.5	328.3	292.8	252.5	212.2	170.7
87.5°	458.7	440.9	419.6	395.9	367.5	336.6	304.6	266.7	227.6	188.5	145.8
90°	433.8	417.2	395.9	372.2	343.7	312.9	279.7	244.2	206.2	165.9	125.6
92.5°	412.5	394.7	374.6	350.9	322.4	292.8	259.6	224.0	187.3	148.2	109.1
95°	391.2	373.4	354.4	330.7	302.3	272.6	239.4	205.1	169.5	131.6	94.8
97.5°	367.5	352.0	333.1	310.6	282.1	253.7	221.7	188.5	154.1	117.3	83.0
100°	348.5	330.7	312.9	289.2	263.1	235.9	203.9	171.9	138.7	104.3	72.3
102.5°	327.2	310.6	292.8	270.3	244.2	216.9	187.3	156.5	125.6	93.6	62.8
105°	307.0	291.6	272.6	251.3	226.4	200.3	171.9	143.4	113.8	83.0	55.7
107.5°	286.8	271.4	253.7	233.5	209.8	183.7	157.6	129.2	101.9	74.7	49.8
110°	266.7	252.5	235.9	215.7	193.2	169.5	144.6	118.5	91.3	66.4	43.9

TEST NUMBER: P1213827

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	248.9	234.7	218.1	199.1	177.8	155.3	131.6	106.7	81.8	59.3	37.9
115°	231.1	218.1	201.5	184.9	163.6	142.2	119.7	96.0	73.5	53.3	33.2
117.5°	213.4	200.3	184.9	168.3	149.4	129.2	107.9	85.3	66.4	47.4	29.6
120°	195.6	183.7	169.5	154.1	137.5	117.3	96.0	77.0	59.3	41.5	26.1
122.5°	179.0	168.3	155.3	141.1	123.3	104.3	86.5	69.9	53.3	36.7	21.3
125°	163.6	152.9	141.1	126.8	110.2	93.6	78.2	62.8	46.2	32.0	17.8
127.5°	148.2	137.5	125.6	112.6	99.6	84.2	69.9	55.7	41.5	28.4	15.4
130°	132.8	123.3	112.6	101.9	88.9	74.7	62.8	48.6	35.6	22.5	13.0
132.5°	117.3	110.2	100.8	90.1	78.2	67.6	54.5	42.7	30.8	20.2	11.9
135°	104.3	97.2	88.9	79.4	69.9	59.3	47.4	36.7	26.1	16.6	9.5
137.5°	92.5	86.5	78.2	69.9	61.6	51.0	41.5	30.8	21.3	14.2	7.1
140°	81.8	75.9	68.7	60.5	53.3	43.9	34.4	24.9	19.0	11.9	5.9
142.5°	71.1	65.2	59.3	52.2	45.0	36.7	28.4	21.3	15.4	9.5	5.9
145°	60.5	55.7	49.8	43.9	36.7	29.6	23.7	17.8	11.9	7.1	4.7
147.5°	49.8	46.2	40.3	35.6	29.6	23.7	19.0	14.2	9.5	5.9	3.6
150°	40.3	36.7	32.0	27.3	23.7	19.0	15.4	10.7	7.1	5.9	3.6
152.5°	30.8	28.4	24.9	22.5	19.0	14.2	10.7	8.3	5.9	4.7	2.4
155°	24.9	22.5	20.2	16.6	14.2	10.7	8.3	5.9	4.7	3.6	2.4
157.5°	17.8	16.6	14.2	11.9	9.5	7.1	5.9	5.9	3.6	2.4	1.2
160°	11.9	10.7	9.5	7.1	5.9	5.9	4.7	3.6	2.4	2.4	1.2
162.5°	7.1	5.9	5.9	5.9	4.7	4.7	3.6	2.4	2.4	1.2	1.2
165°	4.7	4.7	4.7	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: P1213827

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7
2.5°	1124.9	1121.3	1126.1	1134.4	1135.5	1134.4	1132.0	1135.5	1140.3	1139.1	1130.8
5°	1122.5	1117.8	1122.5	1130.8	1130.8	1129.6	1128.4	1132.0	1136.7	1135.5	1128.4
7.5°	1115.4	1110.7	1115.4	1122.5	1123.7	1121.3	1121.3	1124.9	1129.6	1128.4	1122.5
10°	1105.9	1101.2	1103.5	1111.8	1114.2	1111.8	1111.8	1115.4	1121.3	1120.1	1113.0
12.5°	1091.7	1088.1	1090.5	1097.6	1100.0	1098.8	1097.6	1102.4	1108.3	1108.3	1101.2
15°	1076.3	1071.5	1073.9	1082.2	1083.4	1081.0	1082.2	1085.8	1092.9	1092.9	1086.9
17.5°	1058.5	1052.6	1056.1	1062.1	1063.2	1063.2	1063.2	1068.0	1076.3	1075.1	1070.4
20°	1038.3	1030.1	1032.4	1038.3	1040.7	1040.7	1040.7	1049.0	1054.9	1054.9	1050.2
22.5°	1014.6	1008.7	1008.7	1014.6	1018.2	1017.0	1017.0	1024.1	1032.4	1031.2	1031.2
25°	987.4	982.6	980.3	987.4	988.6	989.8	992.1	999.2	1008.7	1008.7	1009.9
27.5°	958.9	954.2	953.0	958.9	960.1	961.3	963.7	972.0	981.5	982.6	985.0
30°	931.7	924.6	922.2	926.9	929.3	930.5	930.5	943.5	951.8	955.4	960.1
32.5°	899.7	892.6	886.6	894.9	896.1	898.5	899.7	912.7	922.2	928.1	935.2
35°	867.7	855.8	853.4	859.4	861.7	862.9	865.3	879.5	892.6	897.3	906.8
37.5°	832.1	823.8	816.7	822.6	825.0	826.2	833.3	846.3	859.4	866.5	876.0
40°	798.9	788.2	782.3	785.9	788.2	789.4	797.7	812.0	827.4	835.7	847.5
42.5°	762.2	747.9	743.2	746.8	747.9	751.5	758.6	777.6	793.0	804.8	814.3
45°	725.4	714.8	704.1	707.6	708.8	711.2	721.9	742.0	758.6	772.8	783.5
47.5°	687.5	674.5	663.8	666.2	670.9	672.1	683.9	707.6	723.1	738.5	752.7
50°	649.6	631.8	623.5	623.5	625.9	631.8	647.2	670.9	687.5	705.3	720.7
52.5°	610.4	593.9	584.4	585.6	587.9	595.0	609.3	633.0	651.9	670.9	689.9
55°	571.3	553.5	544.1	541.7	544.1	553.5	570.1	595.0	614.0	636.5	656.7
57.5°	532.2	510.9	502.6	499.0	501.4	513.2	529.8	555.9	579.6	601.0	624.7
60°	489.5	472.9	458.7	450.4	456.4	471.8	489.5	516.8	541.7	565.4	591.5
62.5°	452.8	431.5	416.1	407.8	413.7	426.7	451.6	477.7	505.0	532.2	558.3
65°	411.3	390.0	372.2	363.9	369.8	385.2	410.1	438.6	468.2	495.5	526.3
67.5°	371.0	348.5	327.2	318.9	326.0	342.6	369.8	401.8	433.8	462.3	495.5
70°	331.9	307.0	284.5	278.6	283.3	305.8	331.9	363.9	397.1	430.3	464.6
72.5°	296.3	265.5	241.8	234.7	240.6	265.5	295.1	328.3	363.9	399.5	436.2
75°	254.8	226.4	200.3	192.0	199.1	221.7	258.4	294.0	331.9	369.8	404.2
77.5°	221.7	188.5	161.2	148.2	160.0	188.5	224.0	262.0	301.1	340.2	379.3
80°	187.3	152.9	123.3	109.1	122.1	152.9	188.5	230.0	273.8	312.9	348.5
82.5°	156.5	119.7	88.9	73.5	87.7	122.1	161.2	202.7	245.4	284.5	326.0
85°	128.0	90.1	58.1	41.5	61.6	92.5	133.9	176.6	220.5	260.8	301.1
87.5°	104.3	67.6	35.6	17.8	37.9	72.3	111.4	154.1	198.0	238.3	276.2
90°	85.3	48.6	19.0	2.4	22.5	54.5	92.5	133.9	175.4	216.9	254.8
92.5°	69.9	36.7	10.7	1.2	14.2	43.9	79.4	118.5	158.8	199.1	235.9
95°	58.1	28.4	7.1	1.2	10.7	34.4	67.6	105.5	143.4	182.5	219.3
97.5°	49.8	23.7	5.9	1.2	8.3	29.6	58.1	93.6	130.4	167.1	202.7
100°	42.7	19.0	4.7	1.2	7.1	24.9	51.0	83.0	117.3	152.9	187.3
102.5°	36.7	15.4	3.6	1.2	5.9	21.3	45.0	74.7	105.5	139.9	173.1
105°	32.0	13.0	3.6	1.2	4.7	19.0	40.3	66.4	97.2	128.0	160.0
107.5°	27.3	10.7	2.4	1.2	3.6	15.4	35.6	60.5	87.7	117.3	147.0
110°	23.7	9.5	2.4	1.2	3.6	14.2	30.8	54.5	79.4	106.7	135.1

TEST NUMBER: P1213827

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	20.2	7.1	2.4	1.2	2.4	11.9	27.3	48.6	72.3	97.2	124.5
115°	17.8	5.9	1.2	1.2	2.4	10.7	24.9	43.9	65.2	88.9	113.8
117.5°	14.2	4.7	1.2	1.2	1.2	8.3	21.3	39.1	59.3	81.8	104.3
120°	11.9	4.7	1.2	1.2	1.2	7.1	19.0	34.4	53.3	73.5	94.8
122.5°	10.7	3.6	1.2	1.2	1.2	5.9	16.6	30.8	47.4	66.4	86.5
125°	9.5	3.6	1.2	1.2	1.2	4.7	14.2	27.3	42.7	59.3	78.2
127.5°	7.1	3.6	1.2	1.2	1.2	3.6	13.0	23.7	37.9	53.3	69.9
130°	5.9	2.4	1.2	1.2	1.2	3.6	10.7	21.3	33.2	47.4	62.8
132.5°	4.7	2.4	1.2	1.2	1.2	2.4	8.3	16.6	28.4	41.5	55.7
135°	4.7	2.4	1.2	1.2	1.2	2.4	5.9	14.2	23.7	35.6	47.4
137.5°	4.7	1.2	1.2	1.2	1.2	2.4	4.7	10.7	19.0	28.4	39.1
140°	3.6	1.2	1.2	1.2	1.2	1.2	3.6	8.3	15.4	23.7	33.2
142.5°	3.6	1.2	1.2	1.2	1.2	1.2	3.6	5.9	11.9	19.0	26.1
145°	2.4	1.2	1.2	1.2	1.2	1.2	2.4	4.7	9.5	14.2	21.3
147.5°	2.4	1.2	1.2	1.2	1.2	1.2	2.4	3.6	7.1	11.9	16.6
150°	2.4	1.2	1.2	1.2	1.2	1.2	2.4	3.6	4.7	8.3	13.0
152.5°	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	3.6	5.9	8.3
155°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	3.6	4.7	5.9
157.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	3.6	4.7
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: P1213827

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7
2.5°	1127.2	1119.0	1121.3	1120.1	1122.5	1126.1	1126.1	1124.9	1124.9	1122.5	1120.1
5°	1124.9	1116.6	1120.1	1119.0	1121.3	1124.9	1124.9	1123.7	1123.7	1120.1	1119.0
7.5°	1117.8	1111.8	1114.2	1114.2	1116.6	1120.1	1120.1	1119.0	1119.0	1115.4	1114.2
10°	1110.7	1103.5	1107.1	1107.1	1109.5	1114.2	1114.2	1113.0	1113.0	1109.5	1108.3
12.5°	1098.8	1091.7	1097.6	1098.8	1101.2	1105.9	1104.7	1104.7	1104.7	1101.2	1100.0
15°	1084.6	1079.8	1085.8	1086.9	1090.5	1096.4	1096.4	1096.4	1096.4	1092.9	1091.7
17.5°	1069.2	1065.6	1071.5	1073.9	1078.7	1084.6	1084.6	1085.8	1086.9	1084.6	1083.4
20°	1051.4	1049.0	1054.9	1059.7	1066.8	1072.7	1075.1	1076.3	1078.7	1076.3	1075.1
22.5°	1031.2	1031.2	1039.5	1044.3	1052.6	1058.5	1062.1	1065.6	1068.0	1065.6	1064.4
25°	1008.7	1012.3	1020.6	1028.9	1038.3	1044.3	1047.8	1052.6	1054.9	1053.8	1052.6
27.5°	987.4	992.1	1002.8	1011.1	1019.4	1028.9	1032.4	1038.3	1040.7	1040.7	1039.5
30°	962.5	969.6	981.5	990.9	1001.6	1011.1	1015.8	1021.8	1025.3	1022.9	1024.1
32.5°	938.8	950.6	960.1	970.8	982.6	992.1	998.0	1005.2	1008.7	1007.5	1008.7
35°	912.7	924.6	937.6	948.3	962.5	972.0	980.3	986.2	990.9	989.8	989.8
37.5°	884.3	899.7	912.7	926.9	940.0	950.6	958.9	966.0	970.8	970.8	970.8
40°	857.0	873.6	886.6	903.2	919.8	929.3	938.8	945.9	950.6	951.8	953.0
42.5°	827.4	845.1	860.5	878.3	894.9	906.8	917.4	925.7	930.5	932.9	931.7
45°	800.1	816.7	834.5	854.6	870.0	881.9	894.9	904.4	909.1	910.3	911.5
47.5°	769.3	788.2	808.4	828.5	844.0	859.4	871.2	880.7	885.4	889.0	889.0
50°	739.6	759.8	782.3	803.7	820.2	835.7	847.5	858.2	864.1	866.5	867.7
52.5°	712.4	731.3	755.1	776.4	793.0	808.4	823.8	835.7	841.6	844.0	844.0
55°	679.2	702.9	729.0	749.1	766.9	784.7	800.1	812.0	817.9	821.4	823.8
57.5°	648.4	673.3	700.5	721.9	743.2	759.8	774.0	789.4	794.2	798.9	800.1
60°	618.7	643.6	669.7	693.4	714.8	732.5	749.1	762.2	770.5	772.8	775.2
62.5°	587.9	614.0	641.3	665.0	687.5	708.8	724.2	736.1	745.6	749.1	751.5
65°	558.3	585.6	612.8	637.7	661.4	682.8	698.2	710.0	719.5	725.4	726.6
67.5°	526.3	555.9	584.4	610.4	634.2	656.7	672.1	683.9	693.4	700.5	701.7
70°	496.7	527.5	555.9	584.4	608.1	630.6	647.2	659.0	669.7	674.5	676.8
72.5°	468.2	500.2	529.8	558.3	582.0	604.5	622.3	634.2	644.8	650.7	651.9
75°	440.9	472.9	505.0	532.2	557.1	579.6	597.4	610.4	619.9	625.9	628.2
77.5°	413.7	446.9	478.9	506.1	532.2	554.7	570.1	585.6	595.0	602.1	602.1
80°	386.4	420.8	454.0	481.2	507.3	527.5	545.3	560.7	570.1	577.3	577.3
82.5°	362.7	395.9	427.9	455.2	481.2	503.8	521.5	535.8	546.4	551.2	552.4
85°	335.4	372.2	401.8	431.5	456.4	477.7	495.5	510.9	520.4	525.1	527.5
87.5°	312.9	348.5	380.5	406.6	431.5	452.8	472.9	486.0	495.5	501.4	503.8
90°	291.6	326.0	358.0	384.0	410.1	430.3	449.2	462.3	472.9	477.7	480.1
92.5°	272.6	307.0	337.8	363.9	388.8	411.3	429.1	442.1	451.6	456.4	459.9
95°	254.8	288.0	317.7	346.1	369.8	390.0	408.9	422.0	432.6	436.2	439.8
97.5°	237.1	269.1	298.7	326.0	350.9	369.8	387.6	400.6	408.9	414.9	418.4
100°	221.7	252.5	280.9	307.0	330.7	348.5	367.5	379.3	387.6	392.3	397.1
102.5°	205.1	235.9	263.1	288.0	312.9	329.5	347.3	359.2	366.3	374.6	374.6
105°	190.8	219.3	246.5	270.3	291.6	311.7	327.2	339.0	347.3	353.2	353.2
107.5°	175.4	203.9	230.0	254.8	275.0	294.0	308.2	318.9	328.3	331.9	335.4
110°	163.6	188.5	214.5	238.3	257.2	275.0	289.2	301.1	309.4	312.9	315.3

TEST NUMBER: P1213827

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	149.4	175.4	199.1	221.7	240.6	257.2	271.4	280.9	289.2	294.0	295.1
115°	137.5	162.4	183.7	205.1	225.2	239.4	252.5	262.0	270.3	273.8	276.2
117.5°	126.8	149.4	170.7	188.5	207.4	222.8	235.9	244.2	251.3	256.0	258.4
120°	116.2	137.5	156.5	174.2	192.0	206.2	218.1	226.4	234.7	238.3	238.3
122.5°	105.5	125.6	143.4	160.0	176.6	189.7	202.7	209.8	216.9	220.5	220.5
125°	96.0	115.0	131.6	147.0	162.4	174.2	184.9	193.2	200.3	202.7	202.7
127.5°	86.5	104.3	119.7	133.9	147.0	158.8	169.5	177.8	183.7	186.1	186.1
130°	78.2	93.6	107.9	122.1	135.1	144.6	155.3	162.4	165.9	169.5	170.7
132.5°	69.9	84.2	97.2	109.1	122.1	131.6	139.9	147.0	150.5	154.1	155.3
135°	61.6	74.7	86.5	98.4	109.1	118.5	125.6	131.6	136.3	138.7	139.9
137.5°	52.2	66.4	77.0	86.5	98.4	105.5	113.8	117.3	122.1	124.5	124.5
140°	43.9	54.5	66.4	75.9	85.3	92.5	99.6	105.5	109.1	110.2	110.2
142.5°	35.6	45.0	54.5	66.4	74.7	80.6	87.7	92.5	94.8	96.0	97.2
145°	28.4	35.6	43.9	54.5	64.0	71.1	74.7	79.4	81.8	83.0	84.2
147.5°	21.3	28.4	35.6	42.7	52.2	59.3	62.8	67.6	69.9	71.1	71.1
150°	16.6	21.3	26.1	33.2	40.3	48.6	53.3	56.9	58.1	59.3	59.3
152.5°	11.9	16.6	20.2	24.9	29.6	36.7	43.9	46.2	47.4	48.6	48.6
155°	8.3	11.9	14.2	17.8	21.3	27.3	33.2	36.7	37.9	39.1	39.1
157.5°	5.9	8.3	9.5	13.0	15.4	17.8	22.5	28.4	29.6	29.6	29.6
160°	3.6	4.7	5.9	8.3	9.5	11.9	14.2	17.8	21.3	21.3	21.3
162.5°	2.4	3.6	3.6	4.7	4.7	7.1	8.3	9.5	13.0	14.2	14.2
165°	1.2	2.4	2.4	2.4	2.4	2.4	3.6	3.6	5.9	7.1	7.1
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	0.0	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: P1213827

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7
2.5°	1121.3	1123.7	1122.5	1122.5	1122.5	1124.9	1122.5	1111.8	1114.2	1116.6	1119.0
5°	1120.1	1121.3	1121.3	1120.1	1120.1	1122.5	1120.1	1109.5	1111.8	1114.2	1115.4
7.5°	1115.4	1116.6	1116.6	1116.6	1115.4	1117.8	1114.2	1104.7	1104.7	1107.1	1108.3
10°	1109.5	1111.8	1110.7	1109.5	1109.5	1109.5	1107.1	1096.4	1096.4	1097.6	1098.8
12.5°	1102.4	1102.4	1102.4	1101.2	1100.0	1100.0	1097.6	1086.9	1085.8	1088.1	1086.9
15°	1092.9	1095.2	1092.9	1091.7	1089.3	1089.3	1085.8	1075.1	1072.7	1073.9	1072.7
17.5°	1084.6	1085.8	1083.4	1081.0	1078.7	1077.5	1073.9	1062.1	1058.5	1059.7	1057.3
20°	1076.3	1076.3	1073.9	1071.5	1068.0	1064.4	1059.7	1047.8	1041.9	1041.9	1037.2
22.5°	1065.6	1065.6	1063.2	1059.7	1056.1	1051.4	1046.6	1034.8	1025.3	1022.9	1019.4
25°	1053.8	1052.6	1051.4	1047.8	1040.7	1036.0	1031.2	1018.2	1007.5	1002.8	996.9
27.5°	1039.5	1039.5	1036.0	1032.4	1025.3	1019.4	1013.5	1001.6	987.4	981.5	973.2
30°	1024.1	1024.1	1020.6	1015.8	1008.7	1001.6	994.5	980.3	966.0	957.7	948.3
32.5°	1008.7	1007.5	1004.0	999.2	992.1	981.5	975.5	961.3	944.7	935.2	922.2
35°	989.8	988.6	985.0	979.1	969.6	961.3	951.8	938.8	919.8	908.0	893.7
37.5°	970.8	969.6	967.2	958.9	949.4	940.0	928.1	915.1	897.3	881.9	867.7
40°	951.8	950.6	945.9	940.0	928.1	916.3	904.4	891.4	872.4	854.6	839.2
42.5°	931.7	930.5	924.6	917.4	904.4	892.6	878.3	864.1	845.1	823.8	808.4
45°	911.5	909.1	903.2	894.9	880.7	867.7	853.4	836.8	817.9	797.7	777.6
47.5°	890.2	886.6	880.7	868.8	857.0	842.8	826.2	808.4	789.4	766.9	745.6
50°	866.5	864.1	857.0	846.3	832.1	817.9	798.9	781.1	758.6	737.3	711.2
52.5°	844.0	839.2	833.3	821.4	807.2	791.8	771.7	750.3	727.8	707.6	680.4
55°	820.2	817.9	809.6	800.1	782.3	764.5	745.6	723.1	698.2	674.5	648.4
57.5°	797.7	793.0	785.9	772.8	757.4	739.6	719.5	695.8	668.5	643.6	615.2
60°	775.2	768.1	759.8	747.9	731.3	712.4	691.0	666.2	638.9	611.6	582.0
62.5°	750.3	744.4	734.9	723.1	706.5	686.3	663.8	637.7	611.6	583.2	551.2
65°	725.4	719.5	710.0	698.2	681.6	659.0	635.3	609.3	579.6	552.4	518.0
67.5°	700.5	694.6	683.9	670.9	654.3	633.0	608.1	580.8	551.2	521.5	486.0
70°	675.6	668.5	659.0	644.8	628.2	605.7	580.8	552.4	522.7	490.7	455.2
72.5°	650.7	644.8	633.0	619.9	602.1	579.6	554.7	526.3	495.5	462.3	426.7
75°	625.9	618.7	610.4	595.0	576.1	554.7	528.7	500.2	467.0	435.0	398.3
77.5°	601.0	595.0	584.4	569.0	551.2	528.7	502.6	474.1	440.9	407.8	368.6
80°	576.1	569.0	560.7	546.4	526.3	503.8	476.5	448.1	414.9	380.5	341.4
82.5°	551.2	544.1	534.6	520.4	501.4	478.9	452.8	422.0	388.8	353.2	316.5
85°	526.3	520.4	509.7	495.5	475.3	452.8	426.7	399.5	363.9	328.3	291.6
87.5°	501.4	495.5	484.8	470.6	451.6	429.1	403.0	374.6	340.2	307.0	266.7
90°	477.7	472.9	462.3	448.1	429.1	406.6	382.9	352.0	318.9	285.7	247.7
92.5°	456.4	451.6	442.1	427.9	411.3	386.4	362.7	333.1	299.9	265.5	228.8
95°	437.4	431.5	422.0	408.9	388.8	367.5	343.7	314.1	282.1	247.7	212.2
97.5°	416.1	410.1	400.6	386.4	369.8	347.3	323.6	295.1	263.1	231.1	195.6
100°	394.7	388.8	378.1	366.3	349.7	327.2	304.6	276.2	246.5	215.7	181.4
102.5°	373.4	367.5	358.0	346.1	329.5	309.4	286.8	259.6	230.0	199.1	167.1
105°	353.2	347.3	337.8	326.0	310.6	290.4	266.7	243.0	214.5	184.9	154.1
107.5°	333.1	327.2	318.9	307.0	291.6	272.6	250.1	225.2	199.1	170.7	141.1
110°	312.9	308.2	298.7	288.0	272.6	253.7	233.5	209.8	183.7	157.6	129.2

TEST NUMBER: P1213827

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	294.0	289.2	279.7	267.9	254.8	237.1	216.9	194.4	169.5	144.6	117.3
115°	275.0	269.1	260.8	250.1	237.1	220.5	201.5	181.4	156.5	132.8	107.9
117.5°	256.0	251.3	243.0	232.3	220.5	203.9	186.1	167.1	143.4	120.9	98.4
120°	237.1	233.5	225.2	215.7	203.9	188.5	171.9	152.9	131.6	110.2	88.9
122.5°	219.3	215.7	207.4	199.1	187.3	173.1	157.6	139.9	120.9	100.8	81.8
125°	202.7	198.0	190.8	182.5	171.9	158.8	143.4	126.8	109.1	91.3	73.5
127.5°	184.9	181.4	176.6	167.1	156.5	144.6	130.4	116.2	99.6	83.0	66.4
130°	170.7	165.9	160.0	152.9	143.4	131.6	118.5	104.3	90.1	74.7	58.1
132.5°	154.1	149.4	144.6	137.5	129.2	118.5	106.7	93.6	80.6	66.4	52.2
135°	138.7	135.1	130.4	123.3	115.0	106.7	94.8	83.0	71.1	58.1	46.2
137.5°	124.5	120.9	116.2	111.4	103.1	94.8	84.2	73.5	62.8	51.0	40.3
140°	110.2	107.9	103.1	98.4	91.3	83.0	73.5	64.0	54.5	43.9	34.4
142.5°	96.0	93.6	90.1	85.3	79.4	72.3	64.0	55.7	46.2	37.9	29.6
145°	83.0	81.8	78.2	73.5	68.7	61.6	54.5	47.4	39.1	32.0	23.7
147.5°	69.9	68.7	66.4	62.8	58.1	52.2	46.2	39.1	33.2	26.1	19.0
150°	58.1	56.9	55.7	51.0	48.6	42.7	37.9	32.0	27.3	20.2	15.4
152.5°	47.4	47.4	45.0	41.5	39.1	34.4	30.8	26.1	21.3	16.6	11.9
155°	37.9	36.7	35.6	33.2	30.8	27.3	23.7	20.2	16.6	11.9	8.3
157.5°	29.6	28.4	27.3	24.9	22.5	21.3	17.8	14.2	10.7	8.3	5.9
160°	21.3	20.2	19.0	17.8	16.6	14.2	11.9	9.5	7.1	4.7	3.6
162.5°	14.2	13.0	13.0	11.9	10.7	8.3	7.1	5.9	4.7	3.6	2.4
165°	7.1	7.1	5.9	5.9	4.7	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: P1213827

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7	1123.7
2.5°	1117.8	1117.8	1122.5	1121.3	1117.8	1124.9	1133.2
5°	1114.2	1114.2	1117.8	1117.8	1114.2	1121.3	1128.4
7.5°	1108.3	1107.1	1110.7	1110.7	1105.9	1111.8	1120.1
10°	1097.6	1096.4	1100.0	1100.0	1095.2	1101.2	1108.3
12.5°	1085.8	1083.4	1086.9	1085.8	1081.0	1086.9	1094.1
15°	1070.4	1069.2	1071.5	1069.2	1064.4	1070.4	1077.5
17.5°	1054.9	1051.4	1052.6	1052.6	1044.3	1050.2	1056.1
20°	1034.8	1030.1	1031.2	1030.1	1024.1	1027.7	1034.8
22.5°	1014.6	1007.5	1007.5	1006.3	999.2	1004.0	1009.9
25°	989.8	981.5	981.5	980.3	972.0	975.5	981.5
27.5°	964.9	956.6	953.0	951.8	943.5	943.5	951.8
30°	938.8	926.9	924.6	921.0	912.7	912.7	919.8
32.5°	913.9	897.3	892.6	887.8	879.5	878.3	886.6
35°	880.7	867.7	859.4	854.6	845.1	842.8	849.9
37.5°	853.4	836.8	825.0	819.1	809.6	806.0	815.5
40°	823.8	806.0	790.6	787.1	772.8	768.1	776.4
42.5°	790.6	771.7	756.2	749.1	738.5	733.7	734.9
45°	757.4	737.3	720.7	711.2	700.5	692.2	697.0
47.5°	723.1	705.3	685.1	670.9	657.9	651.9	654.3
50°	688.7	667.3	648.4	633.0	617.6	610.4	615.2
52.5°	654.3	631.8	610.4	593.9	576.1	569.0	570.1
55°	621.1	597.4	572.5	554.7	538.1	527.5	525.1
57.5°	587.9	561.8	535.8	515.6	494.3	484.8	481.2
60°	552.4	525.1	497.8	474.1	451.6	440.9	436.2
62.5°	519.2	489.5	458.7	433.8	411.3	397.1	393.5
65°	487.2	452.8	422.0	393.5	368.6	353.2	348.5
67.5°	452.8	417.2	384.0	353.2	329.5	309.4	307.0
70°	420.8	382.9	346.1	314.1	288.0	267.9	258.4
72.5°	388.8	349.7	311.7	277.4	244.2	225.2	218.1
75°	358.0	317.7	277.4	241.8	205.1	182.5	175.4
77.5°	329.5	288.0	245.4	206.2	171.9	143.4	133.9
80°	302.3	259.6	214.5	174.2	137.5	106.7	96.0
82.5°	273.8	233.5	187.3	144.6	106.7	74.7	61.6
85°	248.9	208.6	162.4	119.7	81.8	47.4	33.2
87.5°	228.8	184.9	143.4	100.8	61.6	27.3	9.5
90°	208.6	165.9	124.5	83.0	46.2	15.4	1.2
92.5°	190.8	150.5	109.1	71.1	35.6	10.7	1.2
95°	174.2	135.1	96.0	59.3	28.4	7.1	1.2
97.5°	158.8	122.1	85.3	51.0	23.7	5.9	1.2
100°	145.8	110.2	75.9	45.0	20.2	4.7	1.2
102.5°	132.8	99.6	67.6	39.1	17.8	3.6	1.2
105°	122.1	90.1	60.5	35.6	15.4	3.6	1.2
107.5°	111.4	81.8	54.5	30.8	13.0	2.4	1.2
110°	100.8	74.7	48.6	27.3	11.9	2.4	1.2



TEST NUMBER: P1213827

CATALOG NUMBER: 4SNLED-LD5-56SL-LW-UNV-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	92.5	67.6	43.9	24.9	9.5	2.4	1.2
115°	84.2	60.5	39.1	21.3	8.3	1.2	1.2
117.5°	75.9	54.5	34.4	19.0	7.1	1.2	1.2
120°	68.7	48.6	30.8	16.6	5.9	1.2	1.2
122.5°	61.6	43.9	27.3	14.2	4.7	1.2	1.2
125°	55.7	39.1	23.7	11.9	3.6	1.2	1.2
127.5°	49.8	34.4	21.3	10.7	3.6	1.2	1.2
130°	43.9	30.8	17.8	8.3	2.4	1.2	1.2
132.5°	39.1	26.1	15.4	7.1	2.4	1.2	1.2
135°	34.4	22.5	13.0	4.7	2.4	1.2	1.2
137.5°	29.6	19.0	10.7	3.6	1.2	1.2	1.2
140°	24.9	16.6	8.3	3.6	1.2	1.2	1.2
142.5°	21.3	13.0	5.9	2.4	1.2	1.2	1.2
145°	16.6	10.7	4.7	2.4	1.2	1.2	1.2
147.5°	13.0	8.3	3.6	2.4	1.2	1.2	1.2
150°	9.5	5.9	3.6	1.2	1.2	1.2	1.2
152.5°	7.1	4.7	2.4	1.2	1.2	1.2	1.2
155°	4.7	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)