

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: P1213390

Luminaire Tested: 4SNLED-LD5-30SL-LC-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213390
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33518)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 4SNLED-LD5-30SL-LC-UNV-L935-CD1-U
Description: 4FT LINEAR SNLED LED FIXTURE
CLEAR LENSED
Light Source: -
Ballast/Driver: -

Summary

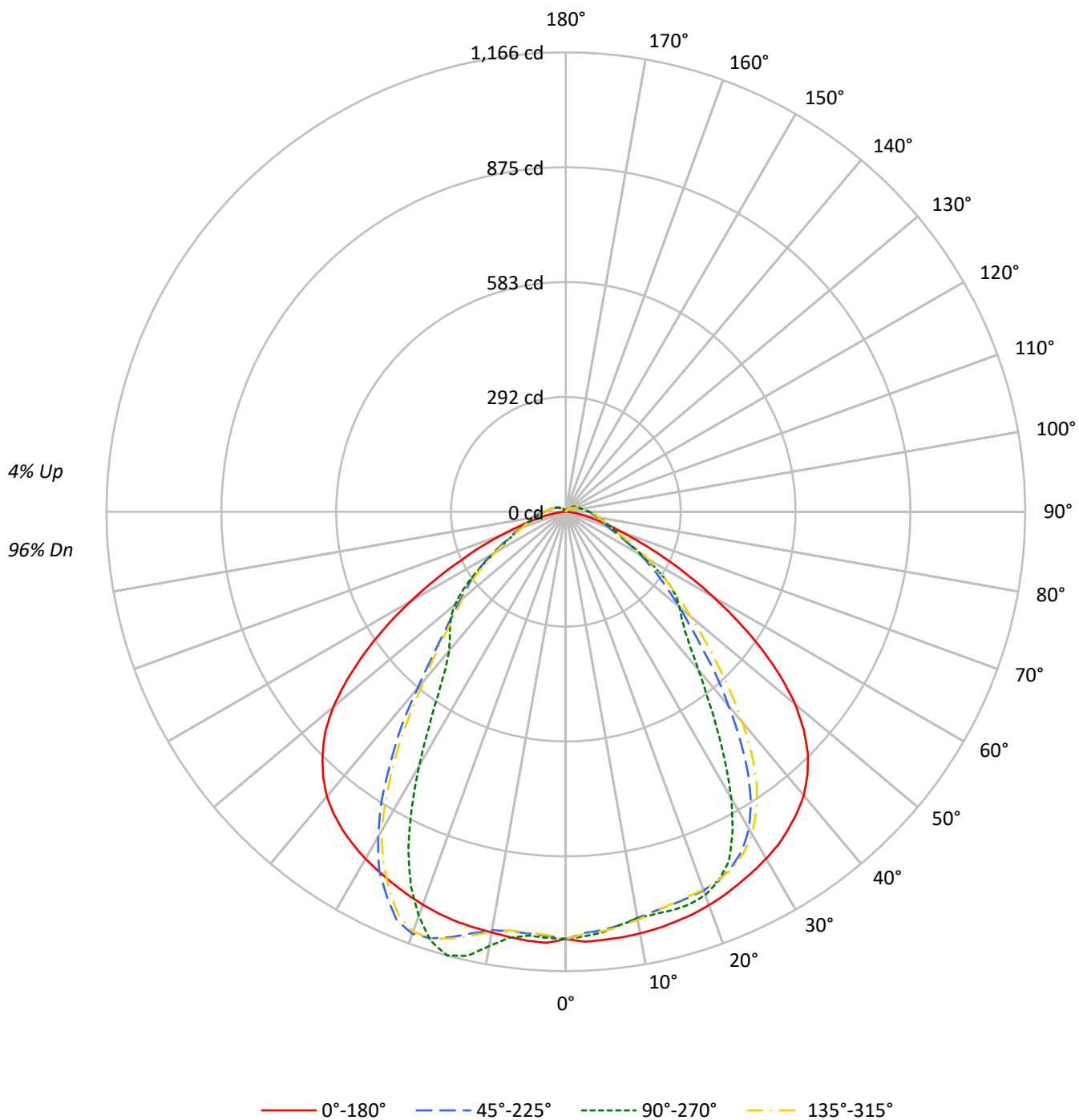
Lumens per Lamp: N/A
Luminaire Lumens: 2585.0 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.4 / 1.12 / 1.19
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.12')
CIE Type: Direct

Input Watts (W): 21
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	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	98	98	96
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	84	84	84	82
2	100	93	86	81	97	90	85	80	86	82	77	82	79	75	79	76	73	73	73	71
3	92	83	75	69	89	81	74	68	77	71	67	74	69	65	71	67	63	63	63	61
4	85	74	66	60	83	73	65	59	70	63	58	67	61	57	64	60	56	56	56	54
5	79	67	59	52	76	66	58	52	63	56	51	61	55	50	59	53	49	49	49	47
6	73	61	52	46	71	60	52	46	57	51	45	55	49	45	54	48	44	44	44	42
7	68	55	47	42	66	54	47	41	53	46	41	51	45	40	49	44	40	40	40	38
8	64	51	43	37	62	50	42	37	48	42	37	47	41	36	45	40	36	36	36	34
9	60	47	39	34	58	46	39	34	45	38	33	43	37	33	42	37	33	33	33	31
10	56	43	36	31	54	43	36	31	42	35	30	40	34	30	39	34	30	30	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	8762	8762	8762	8762
5°	8827	8416	8845	8481
10°	8867	8065	8849	8613
15°	8936	7957	8931	8860
20°	9034	7832	9025	8255
25°	9146	7429	9141	7178
30°	9318	6439	9323	5704
35°	9500	5207	9527	4406
40°	9661	4192	9702	3693
45°	9627	3551	9677	3457
50°	9212	3269	9341	3196
55°	8173	2939	8377	2671
60°	6630	2249	6982	2063
65°	4928	1720	5310	1631
70°	3351	1485	3777	1420
75°	2192	1341	2553	1268
80°	1415	1249	1660	1150
85°	724	1246	956	1139

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 180°

Vertical Angle: 45°

Luminance: 9677 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.0	4.0
10°-20°	306.5	11.9
20°-30°	465.9	18.0
30°-40°	499.8	19.3
40°-50°	433.8	16.8
50°-60°	321.5	12.4
60°-70°	184.2	7.1
70°-80°	102.0	3.9
80°-90°	62.1	2.4
90°-100°	40.4	1.6
100°-110°	27.0	1.0
110°-120°	18.3	0.7
120°-130°	11.2	0.4
130°-140°	5.9	0.2
140°-150°	2.7	0.1
150°-160°	0.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	875.4	33.9
0°-40°	1375.2	53.2
0°-60°	2130.4	82.4
0°-90°	2478.7	95.9
90°-120°	85.7	3.3
90°-150°	105.5	4.1
90°-180°	106.0	4.1
0°-180°	2585.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1084	1084	1084	1084	1084	
5°	1091	1072	1093	1080	1091	104
15°	1077	1047	1076	1166	1077	305
25°	1041	979	1040	946	1041	481
35°	984	666	987	564	984	616
45°	869	427	873	416	869	665
55°	606	320	621	291	606	537
65°	275	162	296	154	275	277
75°	78	103	91	98	78	90
85°	11	71	14	65	11	14
90°	0	59	1	55	0	0
95°	1	49	0	46	1	0
105°	1	36	1	35	1	1
115°	1	30	1	27	1	1
125°	1	22	1	18	1	1
135°	1	14	1	12	1	0
145°	1	8	1	7	1	0
155°	1	4	1	3	1	0
165°	0	0	0	0	0	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°	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3
2.5°	1092.2	1089.4	1088.3	1086.0	1087.7	1094.4	1089.9	1082.7	1083.2	1070.3	1077.1
5°	1091.1	1087.7	1086.0	1083.8	1084.9	1091.1	1086.6	1079.3	1078.7	1065.9	1072.0
7.5°	1089.4	1086.0	1083.2	1081.5	1082.1	1087.1	1081.5	1073.1	1071.5	1057.5	1063.1
10°	1086.6	1084.3	1080.4	1077.6	1077.1	1082.7	1073.7	1065.3	1061.4	1046.8	1052.4
12.5°	1082.7	1079.3	1075.4	1070.3	1069.8	1073.1	1065.9	1054.1	1050.2	1038.4	1044.6
15°	1077.1	1073.1	1068.7	1063.1	1060.3	1062.5	1053.5	1042.9	1042.3	1032.3	1040.7
17.5°	1070.9	1065.3	1060.3	1052.4	1048.5	1050.2	1042.9	1033.4	1034.5	1028.3	1037.9
20°	1062.5	1056.3	1048.5	1040.7	1035.1	1037.9	1032.8	1025.5	1027.2	1022.7	1031.1
22.5°	1053.0	1044.6	1035.1	1026.1	1021.6	1025.5	1021.6	1015.5	1016.0	1013.2	1018.3
25°	1040.7	1031.1	1019.9	1008.7	1006.5	1009.3	1007.0	1002.0	999.8	995.3	997.5
27.5°	1029.5	1018.8	1004.8	993.0	989.1	994.7	989.7	981.3	975.1	969.0	964.5
30°	1016.6	1003.7	988.0	974.6	971.2	973.4	966.2	953.3	937.0	929.2	916.9
32.5°	1002.6	985.8	966.2	951.0	948.8	947.1	933.7	915.2	890.0	874.3	855.3
35°	984.1	965.6	942.1	923.6	920.2	910.7	888.9	864.2	831.7	804.9	772.4
37.5°	963.4	941.5	916.9	892.2	882.7	863.7	832.9	807.1	757.8	725.3	686.1
40°	939.8	913.5	883.3	853.6	837.9	807.1	771.8	733.7	686.1	642.4	609.4
42.5°	907.4	879.3	843.5	810.5	783.6	742.7	701.2	647.5	603.8	566.8	533.2
45°	868.7	835.1	793.7	753.9	719.7	671.0	622.3	568.5	532.1	489.0	466.0
47.5°	818.9	782.5	738.2	694.0	649.1	595.4	544.4	492.9	456.5	425.7	408.9
50°	760.0	726.4	677.7	625.1	575.8	519.8	468.8	430.2	394.9	375.8	362.9
52.5°	687.2	655.9	606.0	548.9	501.3	446.4	399.9	368.5	343.3	329.3	324.9
55°	606.0	578.6	529.3	476.1	427.4	376.9	341.7	314.2	298.0	289.6	290.1
57.5°	519.2	497.9	451.4	403.8	357.9	319.8	287.9	266.0	253.7	253.2	254.8
60°	432.4	416.7	376.4	335.5	295.2	264.4	240.8	225.7	217.9	218.4	217.9
62.5°	349.5	334.9	305.8	272.2	240.3	219.6	198.3	192.1	185.4	184.8	184.8
65°	275.0	263.8	240.3	216.2	192.1	178.7	168.0	160.7	155.7	154.6	155.1
67.5°	206.7	202.2	186.0	169.7	154.6	146.2	137.2	135.5	131.6	131.6	132.7
70°	154.0	150.7	141.7	132.2	126.0	120.4	115.9	115.9	115.4	114.8	117.6
72.5°	111.5	112.0	109.2	101.9	101.4	100.3	99.1	100.8	101.4	103.1	106.4
75°	78.4	80.1	80.1	79.0	81.2	84.0	85.7	88.5	91.9	94.1	98.0
77.5°	55.4	55.4	58.2	61.6	66.1	71.1	75.6	79.5	84.0	86.8	90.2
80°	35.8	37.5	42.0	48.2	54.3	61.1	67.2	72.3	76.7	81.2	83.5
82.5°	21.3	24.1	29.7	37.5	45.4	53.8	59.9	66.1	71.1	75.6	77.3
85°	10.6	14.6	21.3	29.7	38.1	47.0	54.9	60.5	66.1	70.0	72.3
87.5°	3.4	7.8	15.1	23.0	31.9	40.9	49.3	55.4	60.5	63.9	66.1
90°	0.0	3.9	10.6	19.0	27.4	36.4	44.2	51.0	56.0	58.8	60.5
92.5°	0.0	2.2	8.4	15.7	23.5	32.5	40.3	46.5	51.0	53.8	54.9
95°	0.6	1.7	6.2	12.9	20.7	29.1	36.4	42.0	46.5	49.3	49.8
97.5°	0.6	1.1	5.0	10.6	17.9	25.8	33.0	38.6	42.0	44.8	45.4
100°	0.6	1.1	3.9	9.5	15.7	23.0	29.7	34.7	38.6	40.9	41.4
102.5°	0.6	0.6	3.4	7.8	14.0	20.2	26.3	31.4	34.7	37.0	38.1
105°	0.6	0.6	2.8	6.7	12.3	17.9	23.5	28.6	31.4	33.6	34.7
107.5°	0.6	0.6	2.2	5.6	10.6	15.7	21.3	25.2	28.6	30.8	31.9
110°	0.6	0.6	1.7	5.0	9.0	14.0	18.5	22.4	25.8	28.0	29.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	0.6	0.6	1.7	4.5	7.8	12.3	16.2	20.2	23.0	25.2	26.9
115°	0.6	0.6	1.7	3.9	7.3	10.6	14.6	17.9	20.7	23.0	24.6
117.5°	0.6	0.6	1.7	3.4	6.2	9.5	12.9	16.2	18.5	20.7	22.4
120°	0.6	0.6	1.1	2.8	5.6	8.4	11.2	14.0	16.8	19.0	20.7
122.5°	0.6	0.6	1.1	2.8	4.5	7.3	10.1	12.3	15.1	16.8	18.5
125°	0.6	0.6	1.1	2.2	3.9	6.7	9.0	11.2	12.9	15.1	16.8
127.5°	0.6	0.6	1.1	2.2	3.4	5.6	7.8	10.1	11.8	13.4	14.6
130°	0.6	0.6	1.1	1.7	2.8	4.5	6.7	8.4	10.6	11.8	12.9
132.5°	0.6	0.6	0.6	1.7	2.2	3.4	5.0	7.3	9.0	10.6	11.2
135°	0.6	0.6	0.6	1.1	2.2	2.8	3.9	5.6	7.3	9.0	10.1
137.5°	0.6	0.6	0.6	1.1	1.7	2.8	3.4	4.5	6.2	7.3	9.0
140°	0.6	0.6	0.6	1.1	1.7	2.2	2.8	3.9	5.0	6.2	7.3
142.5°	0.6	0.6	0.6	1.1	1.1	1.7	2.2	3.4	3.9	5.0	6.2
145°	0.6	0.6	0.6	1.1	1.1	1.7	2.2	2.8	3.4	3.9	5.0
147.5°	0.6	0.6	0.6	1.1	1.1	1.1	1.7	2.2	2.8	3.4	3.9
150°	1.1	1.1	1.1	1.1	1.1	1.1	1.7	1.7	2.2	2.8	3.4
152.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.7	1.7	1.7	2.2	2.8
155°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.7	1.7	2.2	2.2
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3
2.5°	1074.8	1075.9	1082.7	1082.1	1081.0	1079.9	1079.9	1078.7	1079.9	1082.7	1081.5
5°	1069.2	1070.9	1075.9	1075.4	1074.3	1073.7	1073.1	1071.5	1072.6	1076.5	1075.4
7.5°	1059.1	1060.8	1065.3	1063.1	1061.4	1062.5	1059.7	1058.0	1060.3	1064.2	1063.6
10°	1048.5	1049.6	1055.2	1054.1	1051.3	1051.9	1049.1	1047.9	1050.7	1053.0	1053.5
12.5°	1041.2	1045.1	1050.2	1049.6	1049.1	1049.6	1046.8	1045.7	1047.4	1049.6	1049.1
15°	1039.5	1044.6	1050.2	1050.2	1050.7	1051.3	1048.5	1046.8	1048.5	1050.2	1049.6
17.5°	1037.9	1044.0	1049.1	1048.5	1049.1	1050.2	1045.7	1044.6	1046.8	1049.1	1047.9
20°	1032.3	1037.9	1041.2	1040.1	1040.1	1040.7	1035.1	1035.1	1038.4	1040.1	1040.7
22.5°	1016.6	1023.3	1023.3	1020.5	1020.5	1018.3	1016.6	1013.2	1017.1	1019.9	1022.2
25°	993.0	995.8	992.5	986.3	983.0	980.2	972.3	979.0	979.0	987.4	990.2
27.5°	960.0	953.8	944.3	931.4	928.6	919.7	914.6	916.3	919.1	930.9	939.8
30°	905.7	887.2	870.9	865.3	853.0	844.1	835.1	839.6	844.6	851.3	869.8
32.5°	834.0	816.1	789.7	780.2	767.3	756.1	745.5	752.2	761.2	765.6	785.8
35°	751.6	730.4	706.3	690.0	676.6	670.4	657.0	666.5	676.0	679.4	696.8
37.5°	664.3	642.4	621.1	607.1	594.3	590.3	581.4	588.1	595.4	600.4	615.0
40°	581.4	561.2	545.0	535.4	526.5	523.1	519.8	522.6	528.2	532.1	543.3
42.5°	510.2	494.0	482.8	477.2	471.0	466.6	467.1	468.2	471.0	479.4	484.5
45°	448.1	438.6	431.3	430.2	426.2	425.7	425.1	427.4	429.0	434.1	438.0
47.5°	398.2	394.3	392.6	394.9	396.5	394.3	395.4	398.2	401.6	401.6	401.0
50°	359.0	360.1	362.4	367.4	370.8	371.9	373.0	376.4	376.9	378.1	376.4
52.5°	327.1	328.2	334.4	342.2	346.1	347.8	350.1	353.4	353.4	354.5	352.3
55°	294.6	296.3	302.5	310.3	313.7	315.9	318.1	320.4	322.1	324.3	322.6
57.5°	258.8	263.8	267.7	270.0	272.2	273.9	275.6	276.1	279.5	280.0	282.8
60°	220.7	221.8	225.7	225.2	223.5	228.0	225.7	229.6	233.6	238.6	239.2
62.5°	184.3	184.8	187.6	186.5	188.8	188.2	189.9	189.9	192.7	194.9	197.7
65°	155.7	156.3	158.5	158.5	157.9	159.6	161.3	162.4	162.4	164.1	166.3
67.5°	134.4	136.1	138.3	139.5	140.6	140.6	142.3	142.8	143.9	144.5	145.6
70°	119.9	122.1	124.3	125.5	126.0	127.1	127.7	127.7	128.8	129.4	130.5
72.5°	109.2	111.5	113.1	113.1	114.3	114.8	114.8	115.4	115.9	117.1	118.2
75°	100.3	101.9	103.1	102.5	102.5	102.5	103.1	103.1	104.2	105.3	106.4
77.5°	91.9	93.5	93.5	92.4	92.4	92.4	92.4	93.0	93.5	94.7	95.8
80°	85.7	85.7	85.1	85.1	84.0	83.5	83.5	84.0	84.0	85.1	86.8
82.5°	79.0	79.0	78.4	77.9	77.3	76.7	76.7	77.3	77.9	78.4	79.5
85°	72.8	72.8	71.7	71.7	71.1	71.1	71.1	71.1	71.7	72.3	73.4
87.5°	66.7	66.1	65.5	65.0	65.0	65.0	65.0	65.0	65.5	66.7	67.2
90°	60.5	59.9	59.4	59.4	58.8	58.8	59.4	59.4	59.9	60.5	61.1
92.5°	54.9	54.3	53.8	53.8	53.2	53.2	53.8	53.2	54.3	54.3	54.9
95°	49.8	49.3	48.7	48.7	48.7	48.7	48.7	48.7	49.3	49.3	49.8
97.5°	45.4	44.8	44.2	44.2	44.8	44.2	44.8	44.8	44.8	45.4	45.9
100°	41.4	40.9	40.9	41.4	40.9	40.9	41.4	41.4	41.4	41.4	42.0
102.5°	38.1	38.1	38.1	38.1	38.1	38.1	38.6	38.6	38.6	38.6	39.2
105°	34.7	35.3	35.3	35.3	35.8	35.8	35.8	36.4	36.4	36.4	36.4
107.5°	32.5	33.0	33.0	33.6	33.6	34.2	34.2	34.2	34.2	34.7	34.7
110°	30.2	30.8	31.4	31.9	31.9	32.5	32.5	32.5	32.5	32.5	32.5

TEST NUMBER: P1213390

CATALOG NUMBER: 4SNLED-LD5-30SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
112.5°	28.0	28.6	29.1	30.2	30.8	30.8	30.8	30.8	31.4	31.4	30.8
115°	25.8	26.9	27.4	28.6	29.1	29.1	29.7	29.7	29.7	29.7	29.1
117.5°	23.5	25.2	25.8	26.9	27.4	27.4	28.0	28.0	28.0	28.0	27.4
120°	21.8	23.0	24.1	24.6	25.2	25.8	25.8	26.3	26.3	26.3	25.8
122.5°	20.2	21.3	22.4	23.0	23.5	24.1	24.1	24.1	24.1	24.1	24.1
125°	17.9	19.0	20.2	20.7	21.3	21.8	21.8	22.4	22.4	22.4	21.8
127.5°	16.2	17.4	17.9	19.0	19.6	19.6	20.2	20.2	20.2	20.2	19.6
130°	14.0	15.1	16.2	16.8	17.4	17.4	17.9	17.9	17.9	17.9	17.9
132.5°	12.3	13.4	14.0	15.1	15.1	15.7	15.7	16.2	16.2	16.2	15.7
135°	11.2	11.8	12.3	13.4	13.4	14.0	14.0	14.0	14.0	14.0	14.0
137.5°	10.1	10.6	11.2	11.8	11.8	12.3	12.3	12.3	12.3	12.9	12.3
140°	8.4	9.5	10.1	10.1	10.6	10.6	10.6	11.2	11.2	11.2	10.6
142.5°	7.3	7.8	8.4	9.0	9.5	9.5	9.5	9.5	10.1	9.5	9.5
145°	5.6	6.7	7.3	7.8	8.4	8.4	8.4	8.4	8.4	8.4	8.4
147.5°	4.5	5.0	6.2	6.7	6.7	7.3	7.3	7.3	7.3	7.3	7.3
150°	3.9	3.9	5.0	5.6	6.2	6.2	6.2	6.2	6.2	6.2	6.2
152.5°	2.8	3.4	3.9	4.5	5.0	5.0	5.0	5.0	5.0	5.0	5.0
155°	2.8	2.8	3.4	3.4	3.9	3.9	3.9	3.9	4.5	3.9	3.9
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213390

CATALOG NUMBER: 4SNLED-LD5-30SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3
2.5°	1079.9	1079.3	1081.5	1079.3	1068.1	1072.6	1070.9	1077.1	1077.6	1079.3	1084.9
5°	1074.3	1074.3	1077.1	1074.8	1064.2	1068.7	1068.1	1074.3	1075.4	1076.5	1082.7
7.5°	1063.1	1063.6	1067.5	1065.9	1054.7	1061.4	1060.8	1068.1	1070.3	1072.6	1078.2
10°	1052.4	1051.9	1056.3	1054.7	1044.0	1051.9	1051.3	1058.6	1061.9	1065.9	1072.6
12.5°	1046.8	1045.1	1046.8	1045.1	1033.4	1039.5	1040.1	1048.5	1052.4	1057.5	1065.3
15°	1046.8	1044.0	1044.0	1040.7	1027.2	1031.1	1031.7	1037.3	1042.3	1047.4	1056.9
17.5°	1045.7	1042.9	1042.3	1039.5	1025.0	1025.0	1024.4	1028.3	1031.1	1036.2	1046.3
20°	1039.5	1038.4	1037.9	1036.2	1022.7	1020.5	1019.4	1019.4	1021.1	1022.7	1032.8
22.5°	1023.3	1024.4	1025.5	1026.7	1016.0	1012.1	1012.6	1011.5	1009.8	1009.8	1018.3
25°	993.0	998.6	1003.1	1008.2	1002.0	999.2	1002.6	1000.9	998.1	995.8	1003.1
27.5°	944.9	956.6	966.2	978.5	979.0	976.8	985.8	984.6	984.1	980.7	986.3
30°	878.2	896.7	909.6	927.5	942.6	944.9	960.0	962.2	964.5	962.8	968.4
32.5°	797.6	822.8	844.6	872.6	887.2	900.1	921.4	930.3	939.3	942.1	948.2
35°	709.6	738.2	764.0	794.8	817.7	845.7	871.5	884.9	905.1	913.0	921.9
37.5°	626.2	653.1	678.3	709.1	746.0	775.2	807.1	837.3	864.8	876.0	889.4
40°	552.3	574.1	598.2	625.1	658.7	696.8	731.5	773.5	806.0	828.4	848.0
42.5°	496.2	506.9	527.6	551.7	578.6	617.2	652.5	699.6	738.8	770.7	803.2
45°	446.4	451.4	466.6	479.4	506.9	541.1	578.6	624.5	665.4	706.3	745.5
47.5°	403.8	410.0	417.3	425.1	444.7	473.3	505.8	547.2	588.1	635.7	680.5
50°	375.3	376.9	378.1	381.4	393.2	412.8	439.1	474.4	513.6	564.6	612.2
52.5°	350.1	350.1	346.7	345.0	349.5	361.8	376.9	402.1	442.5	489.5	539.9
55°	323.2	318.1	317.0	311.4	312.5	318.1	325.4	345.0	378.1	418.4	467.1
57.5°	285.6	283.4	283.4	281.2	276.7	279.5	281.2	295.2	318.7	353.4	396.0
60°	242.5	241.4	244.2	244.8	240.8	242.5	242.0	250.4	267.2	295.2	330.5
62.5°	199.4	204.4	205.0	207.2	205.0	204.4	207.2	214.5	222.9	244.2	271.6
65°	167.5	170.3	170.8	173.6	172.5	172.5	174.7	180.4	185.4	200.0	221.2
67.5°	146.7	145.6	146.2	147.9	146.2	145.6	147.3	150.7	154.6	163.5	178.7
70°	130.5	129.4	129.4	129.4	127.1	125.5	126.0	127.1	128.8	133.9	143.4
72.5°	118.2	118.2	116.5	114.8	113.1	112.0	110.9	109.8	109.2	110.9	115.9
75°	107.0	107.5	107.0	105.3	103.1	100.8	98.6	96.3	93.5	92.4	93.0
77.5°	96.9	97.5	98.0	97.5	95.2	92.4	89.1	85.7	81.8	77.9	75.6
80°	87.9	89.1	89.6	89.1	87.4	85.1	81.2	77.3	71.7	66.7	61.1
82.5°	80.1	81.8	82.3	82.3	81.2	79.0	74.5	70.0	63.9	57.1	49.8
85°	73.9	75.1	76.2	76.2	75.6	73.4	68.9	63.9	57.7	49.8	42.0
87.5°	67.8	68.3	69.5	70.6	69.5	67.2	63.3	57.7	51.5	43.7	34.7
90°	61.6	62.2	63.3	64.4	63.9	61.6	58.2	53.2	46.5	38.1	29.1
92.5°	55.4	56.6	57.1	57.7	58.2	56.6	53.8	48.7	42.0	33.6	25.2
95°	51.0	51.0	52.1	52.6	53.2	51.5	49.3	44.2	38.1	30.2	21.8
97.5°	46.5	46.5	47.6	47.6	48.2	47.0	44.8	40.3	34.2	26.9	18.5
100°	42.0	42.6	43.1	43.7	43.7	43.1	40.9	36.4	30.8	24.1	16.2
102.5°	39.2	39.2	39.8	39.8	40.3	39.2	37.0	33.0	27.4	21.3	14.0
105°	36.4	36.4	37.0	37.0	36.4	35.3	33.0	29.7	24.6	18.5	12.3
107.5°	34.2	34.2	34.2	34.2	33.6	32.5	30.2	26.3	21.8	16.8	11.2
110°	32.5	31.9	31.9	31.4	30.8	29.1	26.9	23.5	19.6	14.6	9.5

TEST NUMBER: P1213390

CATALOG NUMBER: 4SNLED-LD5-30SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
112.5°	30.8	30.2	29.7	29.1	28.0	26.3	24.1	21.3	17.4	12.9	8.4
115°	29.1	28.6	28.0	26.9	25.8	24.1	21.8	19.0	15.1	11.2	7.3
117.5°	27.4	26.9	25.8	24.6	23.5	21.8	19.6	16.8	13.4	10.1	6.7
120°	25.2	24.6	24.1	23.0	21.8	19.6	17.4	15.1	11.8	9.0	5.6
122.5°	23.5	23.0	21.8	21.3	19.6	17.9	15.7	13.4	10.6	7.8	5.0
125°	21.3	20.7	20.2	19.0	17.9	15.7	14.0	11.8	9.5	6.7	3.9
127.5°	19.6	19.0	17.9	16.8	15.7	14.0	12.3	10.6	8.4	5.6	3.9
130°	17.4	16.8	16.2	15.1	14.0	12.3	11.2	9.0	7.3	5.0	3.4
132.5°	15.1	15.1	14.6	13.4	12.3	11.2	9.5	7.8	6.2	4.5	2.8
135°	14.0	13.4	12.9	11.8	11.2	9.5	8.4	6.7	5.0	3.9	2.2
137.5°	12.3	11.8	11.2	10.6	9.5	8.4	7.3	5.6	4.5	3.4	2.2
140°	10.6	10.1	10.1	9.0	8.4	7.3	6.2	5.0	3.9	2.8	1.7
142.5°	9.5	9.0	8.4	7.8	7.3	6.2	5.0	3.9	3.4	2.2	1.7
145°	8.4	7.8	7.3	6.7	6.2	5.0	4.5	3.4	2.8	2.2	1.7
147.5°	6.7	6.7	6.2	5.6	5.0	4.5	3.9	3.4	2.2	1.7	1.1
150°	5.6	5.6	5.0	4.5	4.5	3.9	3.4	2.8	2.2	1.7	1.1
152.5°	5.0	4.5	4.5	3.9	3.9	3.4	2.8	2.2	1.7	1.7	1.1
155°	3.9	3.9	3.9	3.4	3.4	2.8	2.2	2.2	1.7	1.1	1.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213390

CATALOG NUMBER: 4SNLED-LD5-30SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3
2.5°	1086.0	1079.3	1084.9	1095.0	1093.9	1092.7	1091.6	1093.9	1101.1	1097.2	1091.1
5°	1084.3	1077.6	1083.8	1093.3	1092.7	1091.1	1089.9	1092.2	1099.5	1095.5	1088.8
7.5°	1081.0	1074.8	1079.3	1088.8	1088.8	1087.7	1086.6	1088.8	1095.5	1092.2	1085.5
10°	1075.4	1070.9	1075.4	1084.3	1084.9	1082.7	1081.5	1084.3	1091.1	1089.4	1083.8
12.5°	1070.9	1066.4	1071.5	1080.4	1081.0	1078.7	1077.1	1080.4	1089.4	1090.5	1088.8
15°	1064.7	1060.8	1067.0	1076.5	1076.5	1074.8	1074.8	1079.3	1091.6	1096.7	1099.5
17.5°	1055.8	1053.0	1060.3	1069.8	1070.3	1069.2	1069.8	1078.7	1095.0	1107.3	1115.1
20°	1044.6	1043.5	1051.3	1061.4	1063.1	1063.6	1066.4	1079.9	1102.3	1119.1	1126.9
22.5°	1031.1	1031.7	1040.7	1051.3	1053.5	1055.2	1060.8	1079.9	1107.9	1125.8	1129.1
25°	1016.0	1017.7	1027.2	1040.1	1042.9	1046.3	1055.8	1080.4	1109.5	1121.3	1115.7
27.5°	999.8	1003.1	1015.5	1028.9	1032.3	1037.9	1050.2	1077.1	1101.7	1102.3	1081.5
30°	983.0	986.9	1001.4	1017.1	1022.7	1028.3	1043.5	1069.2	1082.7	1064.7	1028.3
32.5°	963.9	969.5	984.1	1003.1	1009.8	1017.1	1032.3	1054.1	1049.1	1010.4	958.3
35°	939.8	947.7	964.5	986.9	993.0	1002.6	1013.2	1018.3	995.8	941.0	882.1
37.5°	910.2	921.9	941.5	967.3	974.0	980.2	983.0	969.0	924.2	864.8	803.7
40°	876.0	893.9	915.2	943.8	950.5	950.5	940.4	910.7	854.1	776.3	708.5
42.5°	834.5	856.4	883.3	911.8	918.6	910.7	886.6	834.5	770.1	683.3	611.6
45°	784.1	813.3	843.5	873.2	876.5	859.2	816.1	750.0	670.4	589.8	521.4
47.5°	724.2	762.3	795.3	828.9	824.5	795.3	737.6	662.6	578.6	502.4	447.5
50°	657.0	701.8	738.8	770.7	761.2	720.8	653.1	574.7	491.2	426.2	380.9
52.5°	585.3	636.8	673.8	699.6	686.7	638.5	564.0	489.0	420.6	361.3	331.0
55°	510.8	562.9	601.0	621.1	604.3	552.3	478.9	410.5	346.1	307.5	289.6
57.5°	438.6	487.3	523.1	539.4	518.1	466.0	398.2	340.5	294.0	261.6	252.6
60°	369.1	408.9	443.0	455.4	432.4	384.2	326.0	280.0	245.9	223.5	219.0
62.5°	304.7	337.2	364.1	373.6	351.2	313.7	263.2	229.1	205.0	193.8	188.2
65°	251.5	270.5	298.0	296.3	282.8	248.1	211.2	187.1	171.4	164.1	160.7
67.5°	197.7	215.1	232.4	234.7	217.9	193.8	169.7	152.3	143.9	140.0	138.3
70°	152.9	165.8	176.4	173.6	164.7	149.5	134.4	124.9	121.5	119.9	119.9
72.5°	118.7	125.5	130.5	127.1	121.5	113.7	106.4	102.5	103.1	104.2	105.3
75°	91.9	93.5	94.7	91.3	90.2	85.1	84.6	85.1	88.5	91.9	93.5
77.5°	70.6	68.3	66.7	63.3	63.9	63.3	66.1	70.6	75.6	80.7	85.1
80°	54.3	49.3	45.4	42.0	43.7	46.5	52.1	58.8	65.5	71.1	76.7
82.5°	42.0	34.7	29.1	25.8	29.1	33.6	40.9	49.3	57.1	63.3	69.5
85°	32.5	24.1	17.4	14.0	17.4	24.1	31.9	41.4	49.8	56.6	62.7
87.5°	25.2	17.4	9.5	5.6	9.5	16.8	25.8	34.7	43.1	51.0	57.1
90°	20.2	11.8	4.5	1.1	5.0	11.8	20.2	29.1	37.5	45.9	52.1
92.5°	16.2	8.4	2.2	0.0	2.8	9.0	16.8	25.2	33.6	41.4	47.6
95°	13.4	6.7	1.7	0.0	2.2	6.7	13.4	21.8	29.7	37.5	42.6
97.5°	11.2	5.0	1.1	0.0	1.1	5.6	11.2	18.5	26.3	33.6	38.6
100°	9.5	4.5	1.1	0.0	1.1	4.5	9.5	16.2	23.0	29.7	34.7
102.5°	7.8	3.4	0.6	0.6	0.6	3.4	8.4	14.0	20.2	26.3	31.4
105°	7.3	2.8	0.6	0.6	0.6	2.8	7.3	12.3	17.9	23.5	28.0
107.5°	6.2	2.2	0.6	0.6	0.6	2.2	6.2	10.6	16.2	21.3	25.2
110°	5.0	2.2	0.6	0.6	0.6	2.2	5.0	9.5	14.0	18.5	22.4

TEST NUMBER: P1213390

CATALOG NUMBER: 4SNLED-LD5-30SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
112.5°	4.5	1.7	0.6	0.6	0.6	1.7	4.5	8.4	12.3	16.8	20.2
115°	3.9	1.7	0.6	0.6	0.6	1.7	3.9	7.3	10.6	14.6	17.9
117.5°	3.4	1.7	0.6	0.6	0.6	1.1	3.4	6.2	9.5	12.9	16.2
120°	2.8	1.1	0.6	0.6	0.6	1.1	2.8	5.6	8.4	11.2	14.0
122.5°	2.8	1.1	0.6	0.6	0.6	1.1	2.2	4.5	7.3	9.5	12.3
125°	2.2	1.1	0.6	0.6	0.6	0.6	2.2	3.9	6.2	8.4	10.6
127.5°	2.2	1.1	0.6	0.6	0.6	0.6	1.7	3.4	5.0	7.3	9.5
130°	1.7	1.1	0.6	0.6	0.6	0.6	1.1	2.8	4.5	6.2	7.8
132.5°	1.7	1.1	0.6	0.6	0.6	0.6	1.1	2.2	3.4	5.0	6.7
135°	1.7	0.6	0.6	0.6	0.6	0.6	0.6	1.7	2.8	3.9	5.0
137.5°	1.1	0.6	0.6	0.6	0.6	0.6	0.6	1.1	2.2	2.8	4.5
140°	1.1	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.7	2.2	3.4
142.5°	1.1	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.7	2.8
145°	1.1	0.6	0.6	1.1	1.1	0.6	0.6	1.1	1.1	1.7	2.2
147.5°	1.1	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.1	1.7
150°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.7
152.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
155°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213390

CATALOG NUMBER: 4SNLED-LD5-30SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3
2.5°	1089.9	1077.1	1083.8	1081.5	1083.8	1089.4	1088.8	1087.1	1088.3	1085.5	1082.7
5°	1087.7	1074.8	1081.5	1078.7	1081.5	1087.1	1086.0	1084.3	1086.0	1082.7	1079.9
7.5°	1084.9	1073.1	1081.0	1080.4	1085.5	1092.7	1093.3	1093.3	1097.2	1092.2	1089.9
10°	1084.9	1078.7	1089.4	1093.3	1106.2	1115.7	1116.8	1119.1	1125.8	1124.7	1119.1
12.5°	1096.7	1095.5	1111.2	1120.7	1132.5	1146.0	1153.2	1155.5	1160.0	1156.6	1154.4
15°	1111.8	1117.4	1134.8	1145.4	1158.3	1168.4	1170.0	1171.2	1174.5	1169.5	1165.6
17.5°	1131.9	1135.3	1149.3	1153.8	1162.2	1163.9	1161.6	1156.0	1156.0	1144.8	1141.5
20°	1141.5	1139.8	1145.4	1138.1	1134.8	1124.7	1115.1	1104.5	1103.9	1092.2	1091.1
22.5°	1133.1	1121.9	1110.1	1092.2	1084.3	1069.8	1056.9	1050.7	1046.8	1031.7	1027.8
25°	1103.4	1075.9	1058.6	1037.3	1018.3	1001.4	989.1	976.2	963.9	951.6	946.0
27.5°	1051.9	1026.1	998.1	968.4	942.1	916.3	895.6	882.7	870.9	854.7	846.3
30°	988.6	952.7	921.9	893.3	850.2	818.9	801.5	775.7	766.8	759.5	743.8
32.5°	914.1	870.9	828.9	790.3	746.0	716.9	694.0	674.9	669.3	650.3	645.8
35°	831.7	775.2	727.6	689.5	657.6	622.3	603.2	590.3	579.1	566.3	564.0
37.5°	734.8	683.9	630.1	596.5	571.3	541.1	526.5	517.5	512.5	503.0	501.3
40°	637.4	586.4	549.5	515.8	500.2	483.9	473.3	469.4	467.1	463.8	460.4
42.5°	548.9	504.1	477.8	455.4	448.6	440.8	438.0	440.2	438.0	436.9	436.3
45°	473.8	439.7	421.2	414.5	412.8	410.5	412.8	416.7	417.3	416.1	416.1
47.5°	405.5	389.3	381.4	382.5	385.3	387.0	390.9	396.0	397.1	394.3	395.4
50°	360.7	351.2	349.5	354.0	360.1	362.4	366.9	370.8	370.2	369.1	368.0
52.5°	318.7	315.9	320.4	324.9	331.6	332.7	334.4	336.1	335.5	333.3	332.1
55°	283.4	285.6	289.6	291.2	296.3	295.7	296.3	296.3	294.0	292.9	291.2
57.5°	251.5	252.0	254.3	254.8	257.6	256.5	256.0	254.8	251.5	250.9	249.2
60°	219.0	217.9	222.9	219.0	221.2	219.0	218.4	215.6	212.3	211.7	210.6
62.5°	188.2	186.0	189.3	187.6	188.8	186.5	185.4	182.0	179.2	178.7	178.1
65°	160.7	159.6	163.0	162.4	163.5	160.7	159.6	157.4	155.1	154.6	154.0
67.5°	137.8	140.6	142.3	142.3	143.4	142.8	140.0	139.5	138.9	136.7	136.7
70°	121.0	122.7	126.0	126.6	126.0	127.1	124.9	124.3	123.8	122.7	122.1
72.5°	107.5	109.8	113.1	113.7	113.1	113.1	112.0	111.5	111.5	109.8	109.8
75°	96.9	99.7	102.5	102.5	102.5	101.4	100.3	100.3	99.1	98.6	97.5
77.5°	87.9	91.3	93.5	93.0	92.4	91.3	91.3	89.6	87.9	87.9	86.8
80°	81.2	83.5	85.1	84.6	84.0	82.3	81.8	80.1	79.0	77.3	77.3
82.5°	73.9	76.7	77.9	77.3	76.2	74.5	73.9	72.8	71.7	71.1	70.0
85°	67.8	70.6	71.1	70.0	68.9	67.8	67.2	66.7	66.1	65.0	65.0
87.5°	61.6	64.4	64.4	63.9	62.7	62.2	61.6	61.1	60.5	59.9	59.4
90°	56.6	58.8	58.8	58.2	57.7	57.1	56.6	56.0	55.4	54.9	54.9
92.5°	51.5	53.8	53.8	53.2	52.6	52.1	52.1	51.5	51.0	50.4	49.8
95°	47.0	49.3	49.3	49.3	48.7	48.2	48.2	47.6	47.0	47.0	46.5
97.5°	42.6	44.8	44.8	44.8	44.2	43.7	43.7	43.1	43.1	43.1	42.6
100°	38.6	40.3	40.9	40.9	40.3	40.3	40.3	39.8	39.8	39.8	39.2
102.5°	34.7	36.4	37.5	37.5	37.5	37.0	37.0	37.0	37.0	37.0	36.4
105°	31.4	33.0	34.2	34.7	34.7	34.7	34.7	34.7	34.7	34.7	34.7
107.5°	28.6	30.2	31.4	31.9	32.5	32.5	33.0	33.0	33.0	33.0	33.0
110°	25.8	27.4	29.1	29.7	30.2	30.8	30.8	31.4	30.8	30.8	30.8

TEST NUMBER: P1213390

CATALOG NUMBER: 4SNLED-LD5-30SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
112.5°	23.0	25.2	26.3	27.4	28.0	28.6	29.1	29.1	29.1	29.1	29.1
115°	20.7	23.0	24.1	25.2	26.3	26.9	26.9	27.4	27.4	27.4	26.9
117.5°	18.5	20.7	21.8	23.0	23.5	24.6	25.2	25.2	25.2	25.2	24.6
120°	16.8	18.5	19.6	20.7	21.8	22.4	23.0	23.0	23.0	23.0	23.0
122.5°	14.6	16.2	17.9	19.0	19.6	20.2	20.7	20.7	20.7	20.7	20.7
125°	12.9	14.6	15.7	16.8	17.4	18.5	18.5	18.5	18.5	18.5	18.5
127.5°	11.2	12.9	14.0	15.1	15.7	16.2	16.8	16.8	16.8	16.8	16.8
130°	9.5	11.2	12.3	13.4	14.0	14.6	14.6	15.1	15.1	15.1	15.1
132.5°	8.4	9.5	10.6	11.8	12.3	12.9	12.9	13.4	13.4	13.4	13.4
135°	6.7	8.4	9.0	10.1	10.6	11.2	11.2	11.8	11.8	11.8	11.8
137.5°	5.6	6.7	7.8	9.0	9.5	9.5	10.1	10.1	10.6	10.6	10.6
140°	4.5	5.0	6.7	7.3	7.8	8.4	9.0	9.0	9.0	9.0	9.0
142.5°	3.4	4.5	5.0	6.2	6.7	7.3	7.8	7.8	7.8	7.8	7.8
145°	2.8	3.4	3.9	5.0	5.6	6.2	6.7	6.7	6.7	6.7	6.7
147.5°	2.2	2.8	3.4	3.9	4.5	5.0	5.6	5.6	5.6	5.6	5.6
150°	1.7	2.2	2.8	2.8	3.4	3.9	4.5	5.0	5.0	5.0	5.0
152.5°	1.7	1.7	2.2	2.2	2.8	3.4	3.9	3.9	3.9	3.9	3.9
155°	1.1	1.7	1.7	1.7	2.2	2.2	2.8	3.4	3.4	3.4	3.4
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213390

CATALOG NUMBER: 4SNLED-LD5-30SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3
2.5°	1084.3	1086.6	1085.5	1083.8	1083.2	1086.0	1083.2	1070.3	1075.4	1075.9	1079.9
5°	1082.7	1084.3	1083.2	1082.1	1080.4	1083.8	1080.4	1067.0	1072.0	1072.6	1076.5
7.5°	1093.9	1094.4	1094.4	1091.6	1087.1	1088.8	1084.3	1069.2	1072.0	1072.0	1074.8
10°	1121.9	1123.0	1124.7	1117.4	1111.8	1107.3	1101.1	1082.7	1082.1	1077.6	1077.6
12.5°	1158.3	1155.5	1152.7	1149.3	1144.8	1139.2	1130.3	1108.4	1101.1	1093.9	1086.6
15°	1168.9	1167.8	1167.2	1165.6	1162.8	1161.1	1154.4	1132.5	1121.9	1112.9	1100.0
17.5°	1140.9	1143.2	1150.4	1151.0	1154.4	1161.1	1160.0	1144.8	1135.3	1131.4	1115.7
20°	1090.5	1091.1	1100.0	1103.9	1118.5	1129.7	1138.1	1136.4	1134.2	1138.7	1126.9
22.5°	1030.0	1033.9	1043.5	1049.6	1063.6	1076.5	1089.9	1097.2	1109.0	1127.5	1125.2
25°	947.7	952.7	966.2	976.2	995.8	1015.5	1033.4	1046.3	1060.3	1095.5	1107.3
27.5°	849.1	856.9	874.3	884.4	911.8	932.0	957.8	983.0	1002.6	1042.9	1067.0
30°	745.5	752.2	770.7	784.7	808.2	835.7	868.1	904.0	936.5	977.4	1007.6
32.5°	648.6	655.9	671.0	683.3	709.6	732.6	768.4	812.7	842.9	899.5	939.8
35°	564.0	570.7	581.4	592.0	613.9	637.4	668.2	711.3	750.0	808.8	859.7
37.5°	504.6	505.8	511.9	518.1	534.3	552.3	576.3	614.4	650.3	713.6	769.6
40°	462.1	462.1	465.4	467.1	474.4	485.0	500.2	529.8	559.5	607.7	676.0
42.5°	435.8	434.6	434.6	435.2	434.6	439.7	448.6	462.6	489.0	528.7	581.9
45°	416.1	413.9	412.2	408.3	406.1	406.1	406.6	411.7	426.8	452.6	495.7
47.5°	394.3	393.7	390.9	386.5	382.5	379.7	375.3	373.6	378.1	392.6	421.8
50°	369.1	366.3	363.5	360.1	355.7	352.9	344.5	345.0	341.1	347.8	362.9
52.5°	332.1	329.9	328.8	326.0	324.3	323.2	316.5	309.7	308.1	309.2	314.8
55°	291.2	292.4	287.9	290.1	289.6	284.5	281.7	276.7	275.0	274.4	277.2
57.5°	248.7	249.8	247.0	249.2	249.2	246.4	244.8	244.8	240.8	237.5	241.4
60°	210.0	207.8	209.5	212.3	212.3	210.6	209.5	209.5	206.7	205.6	208.4
62.5°	178.7	176.4	178.1	180.9	181.5	180.4	179.2	179.2	175.9	175.9	178.1
65°	154.6	155.1	154.6	156.8	156.8	157.4	156.3	155.1	151.2	152.9	152.3
67.5°	137.2	136.7	136.7	138.9	138.3	139.5	138.3	136.7	133.9	131.6	131.1
70°	122.7	122.1	122.1	123.2	123.8	123.8	123.2	122.1	118.2	115.9	114.3
72.5°	109.8	109.2	109.8	110.3	110.9	111.5	110.9	109.8	106.4	103.6	100.8
75°	98.0	97.5	99.1	99.1	99.7	99.7	100.3	99.7	96.9	93.5	90.2
77.5°	86.3	86.8	88.5	89.1	90.2	90.7	91.3	91.3	88.5	85.7	81.2
80°	76.7	77.9	79.0	79.5	80.7	82.3	82.9	83.5	81.2	78.4	73.4
82.5°	70.0	70.6	71.7	72.3	73.9	74.5	75.1	76.2	75.1	72.3	66.7
85°	64.4	65.0	66.1	66.1	67.2	68.3	68.9	69.5	68.9	66.1	60.5
87.5°	59.4	59.9	60.5	61.1	61.6	62.2	62.7	63.3	62.7	59.9	54.9
90°	54.9	54.9	55.4	55.4	56.0	56.6	57.7	57.7	57.1	54.9	49.8
92.5°	49.8	50.4	50.4	51.0	51.5	52.1	52.6	52.6	52.1	49.8	45.4
95°	46.5	46.5	47.0	47.0	47.6	47.6	48.2	48.2	47.6	45.4	40.9
97.5°	42.6	42.6	42.6	42.6	43.1	43.1	43.7	43.7	43.1	40.9	37.0
100°	39.2	39.2	39.2	39.2	39.2	39.8	39.8	39.8	39.2	37.0	33.0
102.5°	36.4	36.4	36.4	36.4	36.4	36.4	36.4	36.4	35.3	33.6	29.7
105°	34.7	34.7	34.7	34.2	34.2	34.2	33.6	33.6	31.9	30.2	26.9
107.5°	32.5	32.5	32.5	31.9	31.9	31.4	30.8	30.8	29.1	27.4	24.1
110°	30.8	30.8	30.8	30.2	29.7	29.1	28.6	28.0	26.3	24.1	21.3

TEST NUMBER: P1213390

CATALOG NUMBER: 4SNLED-LD5-30SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
112.5°	29.1	29.1	28.6	28.6	28.0	27.4	26.3	25.8	24.1	21.8	19.0
115°	26.9	26.9	26.9	26.3	25.8	25.2	24.6	23.5	21.8	19.6	16.8
117.5°	24.6	24.6	24.6	24.1	23.5	23.0	22.4	21.3	19.6	17.4	15.1
120°	22.4	22.4	22.4	21.8	21.3	20.7	20.2	19.0	17.4	15.7	12.9
122.5°	20.7	20.7	20.2	19.6	19.0	18.5	17.9	16.8	15.7	13.4	11.2
125°	18.5	18.5	17.9	17.9	17.4	16.8	16.2	15.1	13.4	11.8	10.1
127.5°	16.8	16.2	16.2	16.2	15.7	15.1	14.0	13.4	11.8	10.1	8.4
130°	14.6	14.6	14.6	14.0	14.0	13.4	12.3	11.2	10.1	9.0	7.3
132.5°	12.9	12.9	12.9	12.9	12.3	11.8	10.6	10.1	9.0	7.3	6.2
135°	11.8	11.8	11.2	11.2	10.6	10.1	9.5	8.4	7.3	6.2	5.0
137.5°	10.1	10.1	10.1	9.5	9.5	9.0	7.8	7.3	6.7	5.6	4.5
140°	9.0	9.0	8.4	8.4	7.8	7.8	7.3	6.2	5.6	4.5	3.9
142.5°	7.8	7.8	7.3	7.3	6.7	6.7	6.2	5.6	4.5	3.9	2.8
145°	6.7	6.7	6.2	6.2	6.2	5.6	5.0	4.5	3.9	3.4	2.8
147.5°	5.6	5.6	5.6	5.0	5.0	4.5	4.5	3.9	3.4	2.8	2.2
150°	5.0	5.0	4.5	4.5	4.5	3.9	3.4	3.4	2.8	2.2	1.7
152.5°	3.9	3.9	3.9	3.9	3.4	3.4	2.8	2.8	2.2	1.7	1.7
155°	3.4	3.4	3.4	2.8	2.8	2.8	2.2	2.2	1.7	1.7	1.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213390

CATALOG NUMBER: 4SNLED-LD5-30SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3	1084.3
2.5°	1078.2	1077.6	1082.7	1082.1	1075.4	1085.5	1092.2
5°	1075.4	1074.8	1079.3	1080.4	1073.1	1083.8	1091.1
7.5°	1073.1	1072.6	1077.6	1079.3	1072.0	1081.5	1089.4
10°	1073.7	1070.9	1075.4	1076.5	1069.8	1079.9	1086.6
12.5°	1077.6	1070.9	1072.6	1072.6	1066.4	1075.4	1082.7
15°	1087.1	1073.1	1070.9	1069.2	1061.4	1069.8	1077.1
17.5°	1097.8	1078.7	1070.9	1065.3	1055.8	1063.1	1070.9
20°	1108.4	1084.9	1072.0	1063.1	1050.2	1056.9	1062.5
22.5°	1113.5	1090.5	1073.1	1059.7	1043.5	1046.8	1053.0
25°	1106.7	1088.3	1070.9	1054.7	1035.1	1035.6	1040.7
27.5°	1082.1	1077.1	1065.9	1049.6	1028.3	1025.5	1029.5
30°	1040.1	1054.1	1054.7	1042.9	1020.5	1014.9	1016.6
32.5°	981.3	1012.6	1031.1	1028.9	1009.3	1001.4	1002.6
35°	913.5	952.7	993.0	1006.5	992.5	986.3	984.1
37.5°	832.3	884.9	938.7	971.8	969.5	965.6	963.4
40°	742.7	806.0	869.8	922.5	938.7	938.7	939.8
42.5°	646.9	720.8	790.9	857.5	895.6	904.0	907.4
45°	554.5	629.0	705.2	781.9	832.9	859.2	868.7
47.5°	470.5	545.5	617.8	701.8	769.6	803.7	818.9
50°	398.8	454.8	531.0	614.4	688.4	730.4	760.0
52.5°	339.4	383.1	449.8	527.6	602.1	659.8	687.2
55°	289.6	319.3	375.8	443.0	514.2	574.1	606.0
57.5°	247.6	271.1	309.7	365.7	425.7	485.0	519.2
60°	210.6	226.8	253.2	297.4	348.4	399.3	432.4
62.5°	178.7	189.3	206.7	239.2	278.9	318.7	349.5
65°	154.0	158.5	168.0	188.2	218.4	248.7	275.0
67.5°	129.9	132.7	140.0	152.3	167.5	189.3	206.7
70°	112.0	112.0	112.6	119.9	127.7	141.7	154.0
72.5°	97.5	95.8	92.4	94.1	95.8	103.6	111.5
75°	85.7	81.8	76.2	73.9	72.8	73.9	78.4
77.5°	75.6	70.0	63.3	57.7	53.2	51.5	55.4
80°	67.2	60.5	52.6	45.4	38.1	34.2	35.8
82.5°	60.5	52.1	43.7	35.3	26.9	21.3	21.3
85°	53.2	45.4	36.4	27.4	19.0	11.8	10.6
87.5°	48.2	39.8	30.2	21.8	13.4	6.2	3.4
90°	43.1	34.7	25.8	17.4	9.5	2.8	0.0
92.5°	38.6	30.8	22.4	14.0	6.7	1.7	0.0
95°	34.7	27.4	19.0	11.8	5.6	1.1	0.6
97.5°	30.8	24.1	16.8	9.5	3.9	1.1	0.6
100°	28.0	21.3	14.6	7.8	3.4	0.6	0.6
102.5°	24.6	19.0	12.3	6.7	2.8	0.6	0.6
105°	21.8	16.8	10.6	5.6	2.2	0.6	0.6
107.5°	19.6	14.6	9.5	5.0	2.2	0.6	0.6
110°	17.4	12.9	8.4	4.5	1.7	0.6	0.6

TEST NUMBER: P1213390

CATALOG NUMBER: 4SNLED-LD5-30SL-LC-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
112.5°	15.7	11.2	7.3	3.9	1.1	0.6	0.6
115°	13.4	10.1	6.2	3.4	1.1	0.6	0.6
117.5°	11.8	8.4	5.6	2.8	1.1	0.6	0.6
120°	10.1	7.3	4.5	2.2	0.6	0.6	0.6
122.5°	9.0	6.2	3.9	2.2	0.6	0.6	0.6
125°	7.8	5.6	3.4	1.7	0.6	0.6	0.6
127.5°	6.7	4.5	2.8	1.1	0.6	0.6	0.6
130°	5.6	3.9	2.2	1.1	0.6	0.6	0.6
132.5°	4.5	3.4	2.2	1.1	0.6	0.6	0.6
135°	3.9	2.8	1.7	1.1	0.6	0.6	0.6
137.5°	3.4	2.2	1.1	1.1	1.1	0.6	0.6
140°	2.8	1.7	1.1	1.1	1.1	1.1	0.6
142.5°	2.2	1.7	1.1	1.1	1.1	1.1	0.6
145°	1.7	1.1	1.1	1.1	1.1	1.1	0.6
147.5°	1.7	1.1	1.1	1.1	1.1	1.1	0.6
150°	1.1	1.1	1.1	1.1	1.1	1.1	1.1
152.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1
155°	1.1	1.1	1.1	1.1	1.1	1.1	1.1
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)