

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: P1213325

Luminaire Tested: 2SNLED-LD5-21SL-RW-UNV-L935-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1213325
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33525)
Test Lab: INNOVATIONS CENTER-P3
Issue Date: 3/29/2018
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2SNLED-LD5-21SL-RW-UNV-L935-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

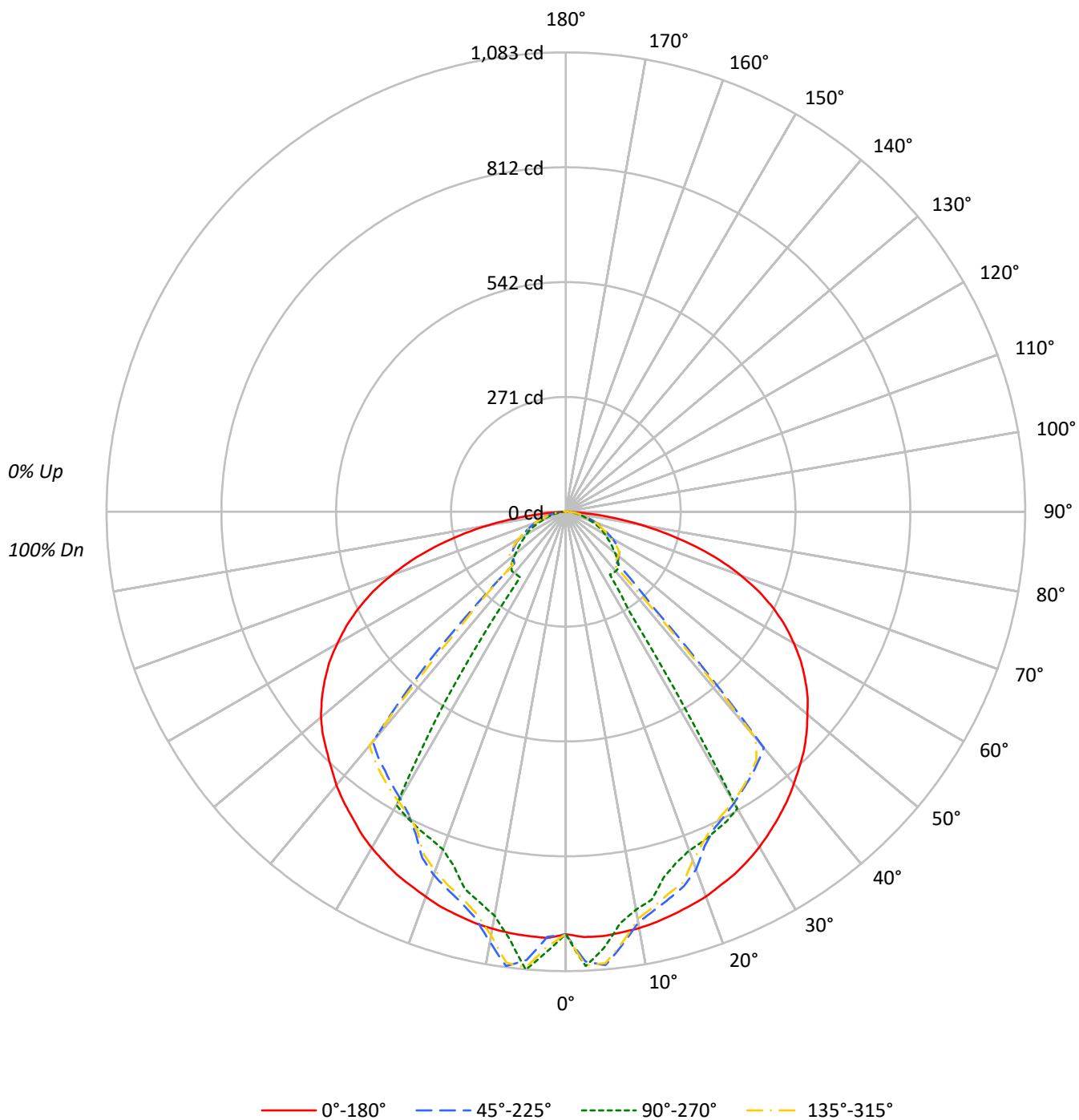
Lumens per Lamp: N/A
Luminaire Lumens: 1994.0 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

Input Watts (W): 18
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



TEST NUMBER: P1213325

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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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	102	99	108	104	101	98	100	97	94	96	94	92	92	91	89	87		
2	102	94	88	83	99	93	87	82	89	85	81	86	82	79	83	80	77	75		
3	94	84	77	72	91	83	76	71	80	74	70	77	73	69	75	71	67	65		
4	87	76	68	62	85	75	67	62	72	66	61	70	65	60	68	63	59	57		
5	81	69	61	55	79	68	60	55	66	59	54	64	58	53	62	57	53	51		
6	75	63	55	49	73	62	54	49	60	53	48	59	53	48	57	52	47	46		
7	70	58	50	44	68	57	49	44	55	48	43	54	48	43	53	47	43	41		
8	66	53	45	40	64	52	45	40	51	44	39	50	44	39	49	43	39	37		
9	62	49	41	36	60	48	41	36	47	41	36	46	40	36	45	40	36	34		
10	58	46	38	33	57	45	38	33	44	38	33	43	37	33	42	37	33	31		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	16094	16094	16094	16094
5°	16207	16215	16200	17018
10°	16179	14660	16200	14885
15°	16169	13564	16206	13994
20°	16238	12865	16238	12817
25°	16330	12619	16352	12501
30°	16440	12396	16481	12249
35°	16570	2823	16606	2945
40°	16769	2936	16869	3031
45°	17091	2920	17149	3026
50°	17396	2641	17630	2712
55°	17813	2344	17955	2377
60°	18115	2082	18156	2110
65°	18237	1818	18190	1788
70°	17705	1466	17648	1412
75°	16061	1129	16173	1079
80°	12513	800	13015	732
85°	6165	480	6512	368

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 57.5°

Luminance: 18642 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	4.9
10°-20°	269.4	13.5
20°-30°	399.0	20.0
30°-40°	402.0	20.2
40°-50°	314.0	15.7
50°-60°	242.6	12.2
60°-70°	162.9	8.2
70°-80°	83.1	4.2
80°-90°	23.1	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	766.3	38.4
0°-40°	1168.3	58.6
0°-60°	1725.0	86.5
0°-90°	1994.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1994.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	996	996	996	996	996	
5°	1004	1032	1004	1083	1004	96
15°	982	892	985	920	982	278
25°	942	832	944	824	942	435
35°	877	181	878	188	877	549
45°	794	176	797	182	794	613
55°	689	128	694	130	689	615
65°	541	86	539	84	541	532
75°	317	43	319	42	317	332
85°	57	14	60	10	57	78
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
0°	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8
2.5°	1003.5	1007.2	1009.9	1011.7	1012.6	1012.6	1013.1	1013.5	1019.5	1022.2	1024.0
5°	1004.4	1008.1	1013.5	1020.9	1027.2	1032.7	1037.3	1043.7	1050.1	1056.9	1059.2
7.5°	1000.3	1004.9	1015.8	1029.1	1041.4	1050.1	1056.0	1060.1	1063.3	1063.7	1066.0
10°	996.7	1004.9	1019.9	1037.3	1052.8	1063.3	1063.3	1061.0	1064.2	1051.9	1039.6
12.5°	990.3	999.4	1019.9	1042.8	1057.4	1061.5	1059.6	1050.5	1031.8	1016.7	1009.9
15°	982.5	994.8	1020.4	1046.0	1058.3	1059.6	1042.3	1019.0	1004.9	995.8	984.3
17.5°	973.8	990.3	1020.9	1046.4	1051.0	1044.6	1011.7	997.1	982.5	961.1	945.6
20°	965.6	981.6	1017.2	1040.0	1042.8	1014.0	988.5	972.9	948.3	929.6	922.7
22.5°	952.9	971.6	1014.0	1031.3	1020.9	987.5	962.9	938.3	915.9	910.4	902.2
25°	942.4	962.0	1006.7	1020.9	993.0	963.4	934.6	905.9	895.4	887.6	880.3
27.5°	928.2	952.4	997.1	1001.7	963.4	937.3	895.4	882.6	873.0	864.3	861.1
30°	912.7	942.4	983.9	975.2	938.7	900.4	869.3	857.5	850.6	841.5	837.9
32.5°	894.9	927.3	969.3	944.6	912.2	864.3	844.2	835.1	826.0	819.1	796.3
35°	876.6	914.1	951.9	915.4	880.3	836.9	819.1	810.9	802.3	777.2	753.4
37.5°	857.9	899.5	931.0	883.9	837.9	808.6	793.6	784.5	764.8	732.9	721.0
40°	836.5	881.7	904.0	851.5	800.9	779.9	765.8	756.6	712.4	698.2	694.6
42.5°	815.0	864.3	871.2	820.1	770.3	749.3	737.5	707.3	677.2	669.9	671.3
45°	794.5	845.6	835.1	775.3	738.4	721.0	701.0	659.4	643.5	647.1	648.0
47.5°	769.9	823.3	797.2	730.6	705.5	688.2	643.5	618.4	616.1	621.1	623.8
50°	743.4	798.2	757.1	690.0	669.9	649.4	598.7	586.0	588.7	593.7	596.9
52.5°	718.7	769.9	715.6	652.1	634.8	587.8	553.6	555.8	560.4	566.3	568.2
55°	688.6	735.6	671.3	613.8	597.4	535.8	520.2	525.7	530.3	535.3	538.9
57.5°	657.1	696.4	618.8	570.9	544.4	489.7	491.0	494.7	497.9	503.8	208.1
60°	621.1	651.7	561.3	531.2	478.7	453.2	454.5	460.9	464.1	259.2	143.3
62.5°	583.7	599.6	509.3	486.0	418.5	416.6	423.0	425.8	289.8	136.9	134.2
65°	540.8	537.6	458.2	421.2	377.4	379.2	386.1	372.4	128.2	128.2	127.3
67.5°	493.3	474.1	408.4	348.7	337.7	341.8	349.1	121.8	118.7	119.6	116.4
70°	439.0	412.1	356.9	295.3	298.9	303.0	117.7	110.4	109.1	106.8	100.4
72.5°	381.5	344.5	292.1	256.5	258.7	162.5	103.1	99.5	94.9	90.4	83.5
75°	317.2	269.2	214.5	214.5	217.7	92.6	89.9	84.0	78.9	73.0	68.9
77.5°	248.7	207.2	166.6	173.0	84.4	77.6	72.6	66.2	62.1	58.4	56.1
80°	182.1	144.7	125.5	112.3	65.7	58.9	53.8	50.2	48.4	46.1	43.4
82.5°	119.6	87.2	87.2	52.9	46.1	40.6	39.2	36.5	34.7	33.3	31.9
85°	57.0	50.7	38.3	32.4	28.7	26.0	25.1	23.7	23.7	23.3	22.8
87.5°	21.0	22.8	16.9	16.4	15.5	15.1	15.5	15.5	16.0	15.5	15.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8
2.5°	1028.6	1032.3	1035.0	1039.6	1045.5	1050.5	1055.1	1061.5	1071.5	1074.2	1076.5
5°	1059.2	1060.6	1063.7	1067.4	1068.3	1070.6	1070.1	1072.9	1074.2	1077.4	1070.6
7.5°	1061.0	1053.7	1045.0	1037.3	1031.8	1026.8	1023.6	1028.6	1031.3	1033.6	1026.8
10°	1022.7	1014.0	1009.0	1004.4	998.9	991.2	980.7	983.0	982.1	982.1	979.8
12.5°	998.5	986.2	973.4	962.0	957.0	956.5	957.0	962.0	962.0	961.5	958.8
15°	960.6	948.7	942.4	939.6	939.6	938.3	938.3	943.7	942.4	942.4	941.0
17.5°	935.5	927.3	922.7	919.5	918.2	920.5	923.2	925.5	925.9	924.1	916.8
20°	915.0	907.2	901.7	902.7	902.2	903.6	904.9	897.2	887.6	874.8	868.9
22.5°	893.5	887.6	883.5	883.5	878.0	869.3	856.6	853.8	852.5	846.5	841.5
25°	873.0	866.1	860.2	842.0	830.6	831.9	829.6	825.1	824.6	824.2	826.0
27.5°	852.5	834.7	811.8	809.1	804.5	804.1	806.8	809.1	809.1	810.9	813.2
30°	810.0	789.5	785.4	780.4	782.2	788.6	789.9	793.1	794.0	797.2	799.1
32.5°	771.2	762.1	758.5	760.7	766.7	772.1	775.3	776.7	779.0	781.7	784.0
35°	739.7	737.0	740.2	745.2	751.1	755.7	758.5	761.2	763.5	765.8	767.6
37.5°	716.5	718.3	722.9	729.2	735.2	738.8	741.1	744.3	747.5	750.2	739.3
40°	694.6	699.1	704.1	711.0	716.0	719.7	721.9	726.1	698.7	316.2	173.4
42.5°	675.4	680.4	684.1	689.5	695.0	697.8	677.7	302.6	171.1	170.2	172.5
45°	652.1	656.2	662.2	666.3	671.3	440.8	168.4	170.2	167.5	169.3	170.2
47.5°	628.4	634.8	638.0	608.8	181.2	167.5	165.7	167.5	165.7	167.9	166.6
50°	601.5	609.2	433.5	163.8	162.5	161.5	163.4	162.5	163.8	165.7	162.0
52.5°	574.1	355.5	158.8	157.9	158.8	157.9	161.1	158.8	159.3	157.4	152.9
55°	194.4	153.8	152.4	152.0	154.7	154.7	154.7	151.1	148.8	144.2	141.0
57.5°	148.8	148.8	148.3	148.8	147.9	146.9	142.8	139.6	136.4	130.1	128.2
60°	141.0	141.0	141.0	141.0	136.9	135.1	128.7	126.0	120.5	117.3	115.5
62.5°	134.6	133.7	129.6	128.2	123.7	118.7	115.0	112.3	106.8	105.0	103.6
65°	125.5	122.3	117.3	111.8	109.5	104.0	102.2	98.1	95.4	94.0	93.1
67.5°	110.4	105.9	101.8	98.1	94.0	92.2	89.9	86.7	84.9	84.0	83.1
70°	94.5	91.3	87.2	84.9	82.1	80.8	77.6	76.7	75.3	73.9	72.6
72.5°	78.9	77.1	75.3	72.1	71.2	70.3	67.1	65.3	63.4	61.6	60.7
75°	66.2	64.8	63.9	61.2	59.8	57.0	54.8	53.4	52.0	50.7	49.7
77.5°	54.3	53.4	50.7	48.8	47.9	45.6	44.7	45.2	44.3	42.4	41.5
80°	42.4	41.5	39.2	39.2	38.3	37.4	36.5	35.6	34.7	33.3	32.4
82.5°	32.4	31.5	30.6	29.7	28.7	28.3	27.8	26.9	26.0	25.1	24.6
85°	22.8	22.4	21.9	21.4	21.0	20.5	20.1	19.2	18.3	17.8	17.3
87.5°	15.5	15.1	14.6	14.1	13.7	13.2	12.8	12.3	11.4	11.0	10.5
90°	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°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
0°	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8
2.5°	1076.5	1078.8	1076.5	1071.5	1068.3	1066.9	1069.7	1069.7	1071.5	1073.8	1074.2
5°	1059.6	1054.2	1047.8	1041.4	1038.2	1036.4	1031.3	1032.3	1033.6	1034.5	1035.5
7.5°	1017.7	1010.4	1001.7	993.5	990.3	987.5	981.6	981.6	981.6	982.1	984.8
10°	974.8	971.6	967.9	962.4	958.3	957.0	951.9	953.3	952.4	953.8	957.0
12.5°	954.7	951.0	947.8	942.4	937.8	936.0	933.7	935.1	934.6	936.9	939.6
15°	936.4	934.6	931.0	926.8	922.7	919.1	910.9	908.1	906.3	904.0	907.2
17.5°	906.3	893.5	884.9	878.5	873.9	870.7	868.4	868.4	869.8	871.2	873.9
20°	865.2	861.6	857.5	850.6	846.1	844.2	842.9	842.9	845.2	847.0	852.0
22.5°	836.9	836.5	835.1	831.9	829.6	829.6	830.1	831.0	834.2	836.9	842.0
25°	823.7	825.5	824.6	822.8	821.4	821.9	821.0	821.9	825.1	827.8	831.9
27.5°	813.2	816.0	815.0	812.3	810.0	810.9	812.3	811.4	814.1	817.3	820.5
30°	799.1	799.5	801.3	798.2	797.2	798.6	799.1	800.0	802.7	805.0	807.7
32.5°	783.1	786.7	786.3	783.1	783.1	784.5	784.9	754.3	697.3	600.6	574.1
35°	767.6	771.7	764.8	644.8	446.3	238.2	183.9	177.5	178.9	179.8	180.7
37.5°	567.7	269.2	171.6	173.0	174.3	175.7	177.1	178.4	179.8	181.2	181.6
40°	170.7	170.2	171.6	173.4	174.8	175.7	177.5	178.9	180.3	181.6	182.1
42.5°	168.8	169.8	171.1	173.0	174.8	176.6	178.0	179.8	180.7	181.6	182.1
45°	167.9	169.8	171.6	173.0	174.3	175.2	176.2	176.6	176.2	176.2	177.1
47.5°	166.6	168.4	168.8	168.4	168.8	168.4	168.4	168.4	167.0	166.6	166.6
50°	161.5	161.5	160.6	158.8	158.4	157.9	157.0	156.5	154.7	154.2	154.2
52.5°	151.1	150.6	149.2	146.9	146.0	145.1	144.7	144.2	142.4	141.5	141.9
55°	138.7	137.8	136.4	133.7	133.3	132.3	131.9	131.4	129.6	130.5	129.1
57.5°	127.3	125.5	123.7	123.2	121.4	120.9	120.5	120.0	118.7	119.1	118.2
60°	113.6	113.2	112.3	110.4	110.4	110.0	110.0	109.1	108.2	107.7	107.7
62.5°	103.6	102.2	101.3	101.3	99.9	99.9	99.9	99.0	98.1	98.6	98.1
65°	92.6	92.2	91.7	90.8	90.8	90.4	90.4	89.4	88.1	88.5	87.6
67.5°	83.5	82.6	81.7	81.2	79.4	78.5	78.0	77.6	75.8	76.2	75.3
70°	72.1	70.7	69.8	68.9	67.5	66.6	66.6	65.7	64.3	64.8	63.9
72.5°	60.2	59.3	58.4	58.0	56.6	56.1	55.7	55.2	53.8	54.3	53.8
75°	50.2	50.2	49.7	49.3	47.9	46.5	45.6	45.2	44.3	44.7	43.8
77.5°	41.5	40.6	39.7	39.7	38.3	37.4	36.5	36.5	36.5	36.1	35.6
80°	32.4	31.5	31.5	31.0	30.1	29.2	28.7	28.7	28.3	28.3	27.8
82.5°	24.6	23.7	23.3	23.3	22.4	21.9	21.4	21.0	21.0	21.0	20.5
85°	17.3	16.4	16.0	16.0	15.1	14.6	14.6	14.1	14.1	13.7	13.7
87.5°	10.5	10.0	9.6	9.6	8.7	8.2	8.2	8.2	7.8	7.8	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213325

CATALOG NUMBER: 2SNLED-LD5-21SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8
2.5°	1074.2	1074.2	1071.0	1072.0	1070.6	1072.4	1070.1	1070.1	1072.9	1072.9	1074.7
5°	1035.9	1033.6	1033.2	1032.3	1027.7	1029.5	1027.2	1025.0	1028.2	1028.2	1032.3
7.5°	983.4	979.3	981.1	978.4	975.7	971.6	972.9	971.1	973.4	976.6	980.7
10°	956.5	952.9	955.1	952.4	953.8	947.8	948.3	948.7	951.0	951.9	955.6
12.5°	939.2	938.3	937.3	936.4	937.3	934.1	932.3	932.8	933.7	934.1	936.9
15°	902.7	896.7	898.6	892.2	892.6	893.1	889.4	893.1	892.6	898.6	904.0
17.5°	873.0	873.0	869.8	867.1	865.2	864.8	862.0	863.9	862.0	865.7	867.1
20°	852.5	852.0	851.5	850.2	845.6	846.1	847.4	843.3	842.9	842.4	845.2
22.5°	842.9	843.3	841.5	841.5	837.4	838.3	838.8	834.2	834.7	833.3	834.7
25°	832.8	833.7	831.5	831.5	830.6	830.1	827.8	828.7	826.0	823.7	826.0
27.5°	821.0	822.8	821.0	821.9	820.1	819.1	817.8	816.9	814.1	813.7	815.0
30°	810.0	810.9	810.5	808.2	807.7	805.0	806.4	803.6	800.9	801.3	802.3
32.5°	415.3	396.6	305.8	276.1	273.4	283.4	335.9	408.9	529.8	647.1	731.5
35°	181.2	181.2	181.2	180.7	180.7	180.3	179.8	179.3	178.9	178.4	178.0
37.5°	182.1	182.1	182.1	182.1	181.6	181.2	181.2	180.3	179.8	179.3	178.9
40°	182.5	183.0	183.0	183.0	182.5	182.5	182.1	181.2	180.7	179.8	178.9
42.5°	182.1	182.5	182.5	182.1	182.1	181.6	181.6	181.2	180.7	180.3	179.8
45°	176.2	176.6	175.7	175.7	175.2	175.2	175.2	175.2	175.2	175.7	175.7
47.5°	165.7	165.7	165.2	164.7	164.7	164.3	164.7	164.3	165.2	165.7	166.6
50°	153.3	153.3	152.4	152.0	152.0	152.0	152.0	152.4	152.9	153.8	154.7
52.5°	140.6	140.6	140.1	139.6	139.2	139.2	140.6	140.1	140.6	141.0	142.4
55°	128.2	128.7	127.8	127.8	127.3	127.3	127.3	127.8	128.2	128.7	130.1
57.5°	117.7	117.7	116.8	116.8	116.8	116.4	117.7	116.8	117.3	117.7	118.7
60°	107.2	106.8	106.8	106.3	106.3	106.3	107.2	106.8	106.8	107.2	108.2
62.5°	97.7	97.7	97.2	97.2	96.7	96.7	97.7	97.2	97.2	97.7	98.1
65°	86.7	86.7	86.2	85.8	87.2	85.8	87.2	86.2	87.2	87.6	88.5
67.5°	74.4	74.4	74.4	73.9	73.9	74.8	75.3	74.4	74.8	75.8	76.2
70°	63.4	63.4	63.0	63.0	63.0	63.9	64.3	63.4	63.9	64.3	65.3
72.5°	53.8	52.9	52.9	52.5	53.4	53.4	53.8	53.4	53.8	53.8	54.8
75°	44.3	43.4	43.4	43.4	44.3	43.8	44.3	43.8	44.3	44.3	44.7
77.5°	35.6	35.1	34.7	34.7	35.6	35.6	35.6	35.1	35.6	36.1	36.5
80°	27.8	27.4	26.9	26.9	27.8	27.8	27.8	28.3	27.8	28.3	28.7
82.5°	20.5	20.1	19.6	20.5	20.5	20.5	20.5	21.0	20.5	21.0	21.4
85°	13.7	13.2	12.8	13.7	13.7	13.7	13.7	14.1	13.7	14.1	14.6
87.5°	7.3	6.8	6.8	7.3	7.3	7.3	7.8	7.8	7.8	8.2	8.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213325

CATALOG NUMBER: 2SNLED-LD5-21SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8
2.5°	1077.4	1078.8	1078.4	1075.6	1072.9	1069.7	1067.4	1067.9	1072.4	1073.8	1069.7
5°	1032.3	1040.9	1040.9	1046.9	1043.7	1040.9	1042.8	1052.8	1057.8	1065.6	1068.3
7.5°	985.7	989.8	989.4	995.3	994.4	994.4	995.8	1009.0	1015.4	1021.8	1023.6
10°	959.7	963.8	963.4	963.8	962.4	959.2	959.2	965.2	970.7	973.8	974.8
12.5°	941.0	943.3	942.8	942.8	941.9	939.2	938.7	943.7	949.7	953.8	954.2
15°	913.2	919.5	920.9	926.8	925.5	921.8	922.7	926.8	930.5	934.1	932.8
17.5°	871.6	874.8	875.3	877.6	876.6	876.6	882.1	897.2	907.2	915.9	916.8
20°	847.9	850.2	849.3	854.3	852.0	851.5	852.9	859.3	863.9	868.0	875.3
22.5°	836.5	838.3	836.9	837.4	833.3	829.6	828.7	833.7	838.8	844.2	844.2
25°	826.9	828.3	827.8	826.9	823.7	818.7	817.8	818.7	820.5	821.0	817.8
27.5°	815.5	816.4	816.4	816.9	812.8	808.2	807.3	806.4	808.2	807.7	802.7
30°	803.6	802.3	802.7	803.2	799.5	795.4	793.6	793.1	795.0	794.5	789.5
32.5°	775.3	785.8	786.7	787.7	784.5	780.8	779.0	777.6	778.5	778.1	773.5
35°	177.5	180.7	221.3	501.1	680.4	753.4	761.2	759.4	759.8	759.8	756.2
37.5°	178.0	177.5	177.1	175.7	174.3	173.4	299.8	639.3	740.7	741.1	737.9
40°	178.0	177.5	177.1	176.2	174.3	173.0	170.7	168.8	173.0	380.6	696.4
42.5°	178.9	178.0	177.1	176.2	174.3	172.5	170.7	168.4	169.8	168.8	166.6
45°	176.2	175.7	175.7	175.2	174.3	172.5	170.2	167.5	166.1	167.5	165.2
47.5°	167.5	167.9	169.3	169.8	169.8	170.2	168.8	167.0	164.7	166.1	163.4
50°	155.6	156.5	157.0	159.3	160.2	162.0	162.5	162.5	162.0	163.8	162.0
52.5°	142.8	143.7	146.0	146.9	147.9	150.6	151.5	152.9	153.8	156.5	158.4
55°	130.5	131.0	131.9	133.7	135.1	137.4	138.7	140.1	142.4	143.7	149.2
57.5°	119.1	119.6	121.4	121.8	122.8	124.6	126.0	127.8	129.6	130.5	136.9
60°	108.2	108.6	110.0	110.4	110.9	112.7	114.1	115.5	116.8	117.7	122.3
62.5°	98.6	98.6	99.9	99.9	100.4	101.8	102.7	103.6	105.0	105.4	107.7
65°	89.0	89.4	90.4	90.4	90.8	91.7	92.2	92.6	94.0	94.0	95.8
67.5°	77.1	77.6	78.9	79.9	80.3	82.1	82.6	83.1	84.0	84.4	85.3
70°	65.7	66.2	67.5	68.0	68.5	69.8	70.7	72.1	73.5	74.8	75.8
72.5°	55.2	55.7	57.0	57.0	58.4	58.9	59.8	60.2	61.6	62.5	63.9
75°	45.2	45.6	47.0	47.0	48.4	48.8	49.3	49.7	50.7	51.6	52.5
77.5°	37.0	37.0	38.8	39.7	40.6	40.6	41.1	41.1	41.1	41.5	42.4
80°	29.2	29.2	30.6	31.5	32.4	32.4	32.9	33.3	33.8	33.8	34.2
82.5°	21.9	21.9	23.3	23.7	24.6	24.6	24.6	25.1	25.6	25.1	26.0
85°	15.1	15.1	16.0	16.4	17.3	17.3	17.3	17.8	18.3	17.8	18.3
87.5°	8.7	9.1	9.6	10.0	10.5	11.0	11.0	11.0	11.4	11.4	11.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213325

CATALOG NUMBER: 2SNLED-LD5-21SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8
2.5°	1065.1	1059.6	1059.2	1052.8	1051.0	1051.4	1046.4	1044.6	1036.4	1034.5	1025.9
5°	1069.2	1072.0	1070.6	1070.1	1071.5	1070.6	1066.9	1065.1	1063.7	1060.1	1052.8
7.5°	1024.0	1025.9	1027.2	1033.2	1038.2	1046.9	1056.0	1061.9	1066.5	1067.4	1061.5
10°	978.0	986.6	992.6	1001.7	1009.0	1014.0	1019.5	1024.5	1037.7	1051.0	1058.7
12.5°	954.2	956.5	956.0	961.1	966.1	979.3	992.1	999.4	1009.4	1015.4	1029.5
15°	934.1	934.6	936.0	939.6	942.4	946.9	952.9	963.8	983.9	993.0	1000.8
17.5°	915.9	915.9	916.8	920.0	923.6	927.8	931.4	936.0	946.0	961.1	980.2
20°	886.7	899.5	900.8	900.4	902.2	910.0	910.9	919.1	924.1	930.0	948.7
22.5°	843.3	851.1	862.0	878.9	885.3	889.0	891.7	895.4	903.1	910.0	917.7
25°	819.6	824.6	827.8	832.8	846.1	867.5	871.6	875.7	880.8	885.8	895.4
27.5°	798.6	798.2	800.4	805.0	808.6	820.1	840.1	856.1	857.0	864.3	872.5
30°	783.6	780.8	777.6	776.7	781.7	787.7	793.6	818.7	836.0	839.7	848.4
32.5°	769.4	764.8	760.3	756.6	753.4	758.5	762.1	773.1	795.4	816.4	821.0
35°	752.1	747.5	742.0	737.9	732.9	732.4	732.0	742.5	749.8	774.9	796.8
37.5°	734.3	729.2	724.7	720.1	715.1	711.4	709.2	711.9	718.7	729.7	766.2
40°	715.6	709.6	705.1	701.4	694.6	691.8	687.3	685.4	685.9	695.5	714.6
42.5°	427.6	681.8	684.1	680.0	674.0	670.4	665.4	663.1	658.5	663.1	674.0
45°	164.7	166.6	498.8	659.0	651.7	647.1	642.5	640.3	635.2	631.6	641.6
47.5°	161.5	163.4	159.7	226.3	622.0	623.4	617.9	615.6	610.6	607.9	605.1
50°	159.3	160.6	157.9	158.8	155.6	570.0	592.8	590.1	584.6	581.4	575.9
52.5°	157.0	157.0	155.2	152.9	152.0	152.4	479.6	564.0	557.7	554.5	547.2
55°	149.7	150.6	152.4	148.8	147.9	147.4	146.0	456.8	528.0	524.3	518.0
57.5°	138.7	140.6	145.6	144.7	144.7	141.0	140.1	140.1	423.9	493.8	487.4
60°	126.0	127.8	133.3	135.1	136.4	135.5	134.6	134.2	132.3	446.8	455.0
62.5°	112.7	114.5	116.4	122.3	124.1	126.4	129.1	127.8	126.0	126.0	420.8
65°	98.6	101.3	102.2	107.7	110.0	114.1	116.4	119.6	118.7	118.2	120.5
67.5°	86.2	89.4	89.9	92.2	96.3	98.1	100.9	106.8	109.5	110.4	111.3
70°	75.8	77.6	78.9	79.9	82.6	83.1	88.1	92.2	96.3	100.9	102.2
72.5°	65.3	66.6	69.4	68.5	69.4	71.2	73.9	76.7	80.8	87.2	91.3
75°	53.4	54.3	56.1	57.0	58.9	60.2	62.1	64.3	68.0	71.2	76.7
77.5°	42.9	43.4	44.7	45.2	47.0	48.4	51.6	52.9	55.2	57.5	60.7
80°	34.7	34.7	35.1	35.1	36.5	37.9	40.2	41.5	44.3	46.1	46.1
82.5°	26.5	26.5	27.8	27.8	28.7	28.7	30.1	30.1	31.5	32.4	33.3
85°	18.7	19.2	20.1	19.6	20.5	20.1	21.0	21.9	22.4	21.9	21.4
87.5°	12.3	12.3	13.2	12.8	13.2	13.2	14.1	14.1	14.6	14.6	14.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213325

CATALOG NUMBER: 2SNLED-LD5-21SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8
2.5°	1022.7	1015.8	1011.7	1006.7	1005.3	1004.0	1005.8	1005.8	1003.1	1000.8	996.7
5°	1046.4	1039.1	1031.3	1023.1	1015.4	1007.2	1004.0	1003.5	998.5	995.8	994.4
7.5°	1058.7	1055.1	1046.4	1035.0	1023.1	1008.5	1002.1	998.5	993.5	992.6	992.6
10°	1060.1	1056.0	1051.4	1043.2	1029.5	1010.4	998.0	990.7	986.2	989.4	995.3
12.5°	1046.9	1054.6	1050.5	1045.0	1034.1	1010.8	993.0	982.1	980.7	988.9	1004.4
15°	1013.1	1035.9	1047.3	1041.8	1033.2	1009.9	984.8	972.0	972.0	988.9	1009.0
17.5°	987.5	1005.3	1033.2	1037.7	1027.7	1008.1	977.0	962.0	966.1	990.7	1012.2
20°	966.5	977.5	1004.4	1030.0	1020.4	1004.0	965.6	950.1	958.3	988.0	1016.7
22.5°	933.7	955.6	972.0	1009.9	1013.1	996.2	954.2	935.5	951.9	988.0	1014.5
25°	901.7	928.2	945.6	982.5	1002.1	986.6	943.7	920.0	945.1	986.6	1012.6
27.5°	879.4	891.7	923.2	949.7	985.7	973.8	929.6	903.1	936.4	979.3	1002.1
30°	855.7	863.9	894.9	920.0	963.8	959.2	915.0	884.4	925.5	972.5	974.8
32.5°	829.6	838.8	854.7	891.2	933.2	945.6	898.6	865.7	913.6	962.0	942.8
35°	803.2	810.0	822.8	862.0	897.6	925.0	878.5	844.2	905.4	946.0	912.2
37.5°	776.7	784.0	795.0	827.8	860.2	905.9	861.1	822.8	890.3	917.7	880.3
40°	751.6	755.7	767.1	787.7	829.2	886.2	841.5	800.4	874.8	881.7	836.9
42.5°	705.5	726.1	736.5	753.0	794.0	859.3	818.7	776.7	857.5	845.6	793.6
45°	655.8	700.5	705.1	721.5	763.0	830.6	797.2	753.4	841.1	814.6	752.5
47.5°	615.2	647.6	674.0	687.7	726.1	796.8	777.2	733.8	816.4	775.3	712.4
50°	579.1	596.4	644.4	654.4	681.8	756.2	753.4	711.0	782.2	726.1	673.1
52.5°	544.0	556.3	599.6	621.1	643.5	712.4	725.1	688.6	744.8	676.8	633.4
55°	513.4	517.5	541.2	586.4	606.5	668.1	694.1	662.6	697.3	629.8	595.1
57.5°	481.9	478.3	495.6	553.6	568.2	622.9	661.2	636.1	659.0	581.8	555.4
60°	449.0	444.0	451.3	489.7	527.5	578.2	622.5	606.9	612.4	534.4	511.1
62.5°	414.8	409.8	407.5	431.7	487.8	532.1	583.2	574.5	555.4	491.0	456.3
65°	379.2	374.2	370.6	380.1	444.0	472.3	539.4	537.1	492.9	445.4	384.2
67.5°	115.5	340.4	332.7	332.2	374.2	418.0	491.9	488.3	429.9	396.6	330.9
70°	104.0	276.1	293.4	289.3	307.6	362.8	437.6	434.9	368.7	318.1	292.5
72.5°	95.4	97.7	259.2	254.6	258.7	308.5	381.1	373.7	312.6	251.0	252.8
75°	81.7	85.8	89.4	214.9	209.5	255.6	319.4	308.0	257.8	207.2	211.3
77.5°	66.6	71.6	74.4	156.5	169.3	182.1	255.1	240.0	177.5	165.7	78.9
80°	49.7	53.8	58.4	62.5	128.7	127.3	189.4	174.3	123.7	103.1	61.6
82.5°	36.5	37.9	40.6	45.2	51.1	85.3	121.8	107.2	85.8	47.0	42.4
85°	22.8	24.6	26.0	27.4	31.0	51.1	60.2	47.9	36.1	28.7	26.9
87.5°	14.6	14.6	14.1	14.6	15.1	18.3	20.5	19.6	15.5	14.6	14.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213325

CATALOG NUMBER: 2SNLED-LD5-21SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8
2.5°	992.1	985.7	985.7	983.9	985.3	985.3	984.8	985.3	988.5	990.3	993.5
5°	991.6	989.8	993.9	998.9	1004.9	1012.2	1014.0	1020.4	1026.3	1034.1	1042.3
7.5°	997.6	1004.0	1011.7	1019.9	1031.8	1040.5	1048.2	1056.0	1061.5	1068.8	1073.3
10°	1006.2	1019.0	1032.3	1042.8	1055.5	1062.8	1067.9	1068.8	1061.0	1048.7	1038.6
12.5°	1018.6	1033.6	1046.0	1056.0	1061.9	1059.2	1044.6	1029.5	1020.9	1008.1	990.3
15°	1029.1	1042.8	1055.5	1051.4	1035.5	1020.4	1009.0	991.2	973.8	962.0	954.2
17.5°	1033.6	1046.9	1042.3	1020.9	1005.8	988.5	965.2	951.5	940.1	931.0	926.4
20°	1036.4	1034.1	1009.4	993.9	964.7	948.7	933.7	920.9	912.2	907.7	906.8
22.5°	1029.1	1001.2	980.2	952.4	931.0	917.7	905.9	895.4	889.4	885.8	883.5
25°	1004.9	972.5	941.4	919.5	901.3	889.9	880.8	872.1	864.8	863.0	858.4
27.5°	971.1	944.6	903.6	886.7	870.7	865.2	855.2	846.5	840.1	834.7	820.1
30°	943.3	901.3	871.6	856.1	846.5	840.1	828.7	819.6	808.6	788.6	780.4
32.5°	909.0	867.5	839.2	830.6	818.7	813.2	800.4	780.4	763.5	755.3	754.8
35°	864.8	830.6	810.0	802.3	792.7	783.6	757.1	738.8	730.6	731.5	738.4
37.5°	827.8	797.2	784.0	773.1	762.1	738.8	716.5	707.8	710.1	714.6	717.8
40°	790.4	767.1	752.1	743.4	718.7	695.9	684.1	687.3	691.4	694.6	698.7
42.5°	753.9	737.5	722.4	705.5	671.7	659.4	662.2	666.3	669.9	674.5	678.6
45°	719.2	704.6	687.3	648.9	632.0	635.2	639.3	642.5	648.0	651.2	655.3
47.5°	686.3	670.8	640.3	606.5	604.7	611.1	614.7	618.8	622.9	614.7	339.1
50°	649.4	633.4	586.9	574.1	578.2	584.1	588.7	592.8	528.0	209.9	161.5
52.5°	612.9	572.3	542.6	546.2	550.4	557.2	560.4	416.2	165.7	157.9	158.4
55°	572.3	520.2	511.6	516.1	519.8	526.6	349.1	152.9	152.0	151.5	155.2
57.5°	508.4	476.9	480.5	485.1	488.7	345.0	148.8	147.9	148.3	148.8	149.2
60°	451.3	444.5	448.6	452.7	320.4	143.7	141.0	141.5	143.3	141.9	138.3
62.5°	406.2	411.6	415.7	364.2	136.4	135.1	136.4	135.1	131.9	129.6	125.0
65°	371.5	376.9	380.1	128.2	127.8	129.6	128.2	123.7	118.7	112.3	110.9
67.5°	335.0	340.4	121.8	118.7	120.5	118.2	112.7	107.2	103.6	98.1	95.8
70°	297.1	127.3	110.4	110.0	106.8	103.1	97.2	91.7	87.2	84.9	82.6
72.5°	214.5	100.9	99.5	95.8	90.4	85.3	80.3	77.1	74.8	73.5	72.1
75°	89.4	87.6	83.5	77.1	71.6	69.4	65.7	63.4	62.5	59.8	58.9
77.5°	74.8	71.2	65.3	60.7	57.5	56.1	53.4	50.7	49.3	48.8	47.0
80°	57.5	52.5	49.7	47.5	46.5	43.4	40.2	38.8	37.9	37.4	36.1
82.5°	39.2	37.4	35.6	32.4	32.4	31.0	29.7	28.7	27.8	27.8	26.9
85°	25.6	24.2	23.7	22.4	22.4	21.4	21.0	20.5	20.1	19.6	19.2
87.5°	14.6	14.6	15.1	14.6	14.6	14.1	13.7	13.2	12.8	12.8	11.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213325

CATALOG NUMBER: 2SNLED-LD5-21SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8
2.5°	997.6	1002.1	1003.1	1018.6	1027.2	1026.8	1024.0	1032.3	1027.2	1024.5	1027.2
5°	1050.5	1056.0	1060.6	1077.4	1083.4	1086.1	1085.7	1090.2	1086.6	1083.4	1083.4
7.5°	1076.5	1078.4	1080.2	1076.1	1073.3	1068.8	1061.9	1051.9	1046.9	1041.4	1034.5
10°	1033.6	1027.7	1030.0	1021.8	1014.9	1009.9	1003.5	995.3	988.5	983.4	975.7
12.5°	981.1	980.7	981.6	983.0	976.1	972.0	967.0	961.1	956.0	950.6	944.2
15°	949.2	949.7	953.3	951.9	949.7	947.4	941.9	940.1	935.5	929.6	925.9
17.5°	926.4	928.7	932.3	930.5	926.8	924.6	920.5	916.3	912.2	907.7	902.2
20°	906.3	908.6	910.9	908.6	901.7	898.6	893.1	880.3	871.2	862.0	853.8
22.5°	884.4	885.8	883.9	876.6	859.3	851.1	844.7	841.1	833.3	828.3	823.3
25°	857.0	849.3	837.4	829.2	822.3	818.7	816.0	815.5	814.6	813.7	811.4
27.5°	812.3	809.6	803.2	800.0	800.4	801.8	802.3	803.6	802.3	800.4	798.6
30°	779.0	780.4	780.8	781.7	784.0	785.4	785.8	787.7	786.7	785.4	784.5
32.5°	758.0	761.2	763.0	765.8	767.1	769.4	769.4	772.1	769.4	768.9	768.0
35°	740.7	743.4	744.3	748.4	749.8	752.1	752.1	754.3	752.1	728.8	575.5
37.5°	723.3	726.1	727.9	731.5	732.0	733.4	676.8	495.1	319.4	247.3	188.9
40°	702.8	706.0	707.8	709.2	498.3	316.2	217.7	177.1	177.1	178.4	179.8
42.5°	680.9	683.2	476.0	277.0	172.5	172.0	173.4	174.8	176.2	178.0	179.8
45°	535.3	270.2	171.6	167.5	168.8	170.7	172.5	174.3	176.6	178.4	179.3
47.5°	175.7	164.7	167.0	165.2	167.5	169.8	171.6	173.4	173.9	174.3	173.9
50°	162.5	162.5	163.8	163.8	165.7	166.6	166.6	166.6	164.7	164.3	162.9
52.5°	157.0	160.6	158.8	159.7	158.8	157.4	156.1	154.7	152.0	151.1	149.2
55°	154.2	155.6	151.1	149.7	147.9	144.2	142.4	140.6	138.3	137.4	135.1
57.5°	147.9	144.7	139.6	137.4	134.2	130.5	128.7	127.3	125.0	124.1	122.8
60°	136.0	129.6	126.4	123.7	120.0	116.8	115.5	114.5	112.7	112.3	110.9
62.5°	121.4	115.9	113.2	109.5	106.8	105.0	103.6	103.1	101.3	101.3	100.4
65°	105.4	102.7	100.4	96.7	95.4	93.6	93.1	92.6	91.7	91.3	90.4
67.5°	92.6	90.8	87.6	85.8	84.9	83.5	82.6	81.7	79.9	78.9	77.6
70°	81.2	79.9	76.7	75.3	73.5	71.2	69.8	68.9	67.5	66.6	65.3
72.5°	70.3	66.2	63.9	62.5	61.2	58.9	58.4	57.5	56.1	55.7	54.3
75°	56.6	53.4	52.0	51.1	49.7	48.4	48.4	48.4	47.0	46.5	46.1
77.5°	45.2	43.4	42.4	41.5	41.1	40.2	38.8	38.3	37.0	37.0	36.5
80°	34.7	33.8	32.9	32.4	31.9	31.0	30.1	29.7	28.3	28.3	27.8
82.5°	25.6	25.1	24.6	24.2	23.7	23.3	21.9	21.4	20.5	20.5	20.1
85°	18.3	17.8	16.9	16.4	16.4	16.0	14.6	14.1	13.2	13.2	13.2
87.5°	11.4	11.0	10.5	10.0	9.6	9.1	8.2	7.8	7.8	6.8	6.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213325

CATALOG NUMBER: 2SNLED-LD5-21SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8
2.5°	1021.8	1029.5	1028.6	1034.1	1035.5	1038.2	1039.1	1039.6	1032.7	1038.2	1038.6
5°	1082.0	1083.4	1084.3	1086.6	1088.8	1089.3	1087.0	1084.3	1085.2	1083.4	1078.8
7.5°	1033.6	1026.8	1025.4	1023.6	1022.7	1021.8	1017.7	1021.3	1017.2	1015.4	1009.0
10°	974.3	967.9	967.5	967.5	968.8	968.4	967.5	965.6	969.3	967.0	965.6
12.5°	943.3	941.0	942.4	941.4	945.1	946.0	945.1	945.1	944.2	942.4	943.3
15°	924.6	922.7	924.1	922.7	925.5	925.9	923.6	925.0	922.7	920.5	919.5
17.5°	899.9	895.8	892.6	888.1	888.5	887.6	884.9	884.9	882.6	876.6	877.1
20°	852.5	848.4	846.5	846.5	848.8	849.7	849.3	850.2	847.9	847.0	843.3
22.5°	822.8	822.3	823.3	825.5	829.2	834.2	834.7	834.7	834.7	834.2	829.6
25°	812.3	812.3	813.2	816.4	819.1	822.8	823.7	824.6	823.7	823.7	819.6
27.5°	800.4	799.5	801.3	804.5	807.7	810.5	812.8	813.2	811.8	811.8	813.2
30°	785.8	785.4	787.7	790.9	793.6	796.3	798.6	800.4	798.6	798.6	797.2
32.5°	770.8	770.8	771.7	752.5	697.8	628.4	629.8	589.6	561.8	526.6	573.2
35°	481.0	350.0	300.7	254.6	222.2	201.2	200.8	193.9	190.8	188.5	188.0
37.5°	181.6	182.5	184.4	185.3	186.6	187.6	188.0	188.0	188.0	188.0	187.6
40°	181.2	183.0	184.4	185.7	187.1	188.0	188.0	188.5	188.9	188.9	188.9
42.5°	181.6	183.5	185.3	186.6	187.6	188.0	188.5	188.9	188.9	188.9	188.9
45°	181.2	182.1	182.1	182.5	182.5	182.5	183.0	183.0	182.5	182.1	183.0
47.5°	174.3	174.3	173.0	172.5	172.0	171.1	171.6	171.1	170.7	170.2	171.1
50°	162.5	160.6	159.7	158.8	158.4	157.4	157.9	157.4	157.0	156.1	157.4
52.5°	148.3	147.9	146.0	145.1	144.7	145.1	144.2	143.7	143.3	142.8	143.3
55°	134.6	132.8	132.3	131.4	131.0	131.4	131.0	130.5	130.1	129.6	130.1
57.5°	122.3	120.9	120.5	119.6	119.6	119.6	119.6	119.1	118.7	118.2	118.7
60°	110.4	109.5	109.1	109.1	108.6	108.6	108.6	108.2	107.7	107.7	108.2
62.5°	100.4	100.4	99.0	98.6	98.6	99.0	98.6	98.1	97.7	97.2	98.1
65°	89.9	88.1	87.6	86.7	85.8	86.2	85.8	85.3	84.9	84.4	85.3
67.5°	77.1	76.7	74.8	73.9	73.5	73.9	73.5	73.0	72.6	72.1	73.0
70°	64.8	64.8	63.0	62.5	62.1	62.1	61.6	61.6	61.2	60.7	61.6
72.5°	53.8	53.8	53.4	52.5	52.0	51.6	51.1	50.7	50.7	51.1	51.1
75°	44.7	43.8	42.0	42.4	42.0	41.5	41.5	41.1	40.6	41.5	41.1
77.5°	35.1	34.7	33.3	33.8	33.3	32.9	32.9	32.4	31.9	32.4	32.4
80°	26.5	26.5	26.0	25.6	25.6	25.1	24.6	24.6	24.2	24.6	24.6
82.5°	19.2	19.2	18.7	18.3	17.8	17.8	17.3	17.3	17.3	17.3	17.3
85°	12.3	11.9	11.9	11.0	11.0	11.0	10.5	10.5	10.5	10.5	10.5
87.5°	5.9	5.9	5.5	5.5	5.0	4.6	4.6	4.1	4.1	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213325

CATALOG NUMBER: 2SNLED-LD5-21SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8
2.5°	1030.4	1036.4	1031.3	1033.6	1034.1	1041.8	1041.4	1043.2	1040.0	1036.4	1031.3
5°	1082.9	1080.2	1076.5	1085.2	1080.6	1086.1	1087.9	1091.6	1091.6	1091.1	1087.0
7.5°	1015.8	1009.9	1014.5	1017.7	1019.0	1015.4	1022.7	1030.9	1037.7	1041.8	1042.3
10°	963.4	965.2	964.7	966.1	969.3	968.8	973.4	978.0	979.8	982.5	983.4
12.5°	938.7	938.3	939.2	942.4	944.2	943.7	948.3	951.0	951.9	952.4	951.9
15°	919.1	915.9	918.2	918.6	920.0	920.0	925.5	929.6	931.4	932.3	931.4
17.5°	882.1	874.4	881.7	881.7	886.7	885.8	894.4	901.3	904.9	907.7	907.7
20°	845.6	842.0	844.7	843.8	847.4	847.0	852.5	857.0	860.2	862.5	865.2
22.5°	831.0	831.9	827.8	828.3	828.3	827.8	830.6	832.8	833.7	835.1	834.2
25°	821.4	822.3	821.0	818.7	817.8	818.7	820.1	822.8	823.3	822.3	819.1
27.5°	811.8	809.1	811.4	807.3	806.4	808.2	810.0	810.5	810.9	810.9	808.2
30°	797.2	795.0	797.2	795.4	793.6	795.4	796.8	796.8	797.7	798.2	795.0
32.5°	557.2	561.8	635.7	680.4	743.4	775.3	781.3	781.3	782.2	782.2	779.4
35°	189.8	190.3	205.8	223.2	260.1	305.8	365.5	396.6	501.5	627.0	748.4
37.5°	187.6	187.1	186.6	186.2	185.7	185.3	184.4	183.9	186.6	221.3	300.3
40°	188.5	188.0	187.1	186.6	186.2	185.3	184.8	183.9	183.0	182.1	181.2
42.5°	188.5	188.0	187.6	187.1	186.6	186.2	185.3	184.4	183.5	182.1	180.7
45°	182.1	182.1	182.5	182.5	183.0	183.0	183.0	182.5	182.5	182.1	180.3
47.5°	170.2	170.2	171.6	171.6	172.5	173.4	173.4	174.3	175.7	176.6	177.1
50°	156.5	156.5	157.9	158.4	159.3	160.6	162.0	162.5	163.8	165.7	167.5
52.5°	142.8	142.8	144.2	144.2	145.1	146.5	147.9	148.3	150.1	152.0	154.2
55°	130.1	130.1	131.0	131.4	131.9	132.8	134.2	134.2	136.0	137.4	139.6
57.5°	118.7	119.6	119.6	119.6	120.0	120.9	121.8	121.8	123.2	124.6	126.4
60°	107.7	108.6	108.6	108.6	109.1	109.5	110.4	110.4	111.3	112.3	114.1
62.5°	97.7	98.6	98.6	99.0	99.0	99.5	100.4	99.9	100.9	101.3	102.7
65°	84.9	85.8	86.2	86.7	87.2	88.1	89.4	89.0	90.4	91.3	92.6
67.5°	72.6	73.5	73.5	73.9	74.4	75.3	76.2	76.2	77.6	78.5	80.3
70°	61.2	62.1	62.1	62.5	63.0	63.9	64.8	64.3	65.7	66.6	68.0
72.5°	50.7	51.6	51.6	52.0	52.0	52.9	53.8	54.8	54.8	55.7	56.6
75°	41.1	41.5	42.0	42.0	42.4	42.9	43.8	44.7	45.2	45.6	46.5
77.5°	32.4	32.9	33.3	33.3	33.8	34.2	34.7	36.5	37.4	37.9	37.9
80°	24.6	25.1	25.1	25.1	25.6	26.0	26.9	26.9	28.7	28.7	29.2
82.5°	17.3	17.8	17.8	17.8	18.3	19.2	19.6	20.1	21.0	21.4	21.4
85°	10.5	11.0	11.0	11.0	11.4	11.9	12.8	13.2	13.7	13.7	14.1
87.5°	4.1	4.6	5.0	5.0	5.5	5.9	6.4	6.8	7.3	7.3	7.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1213325

CATALOG NUMBER: 2SNLED-LD5-21SL-RW-UNV-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8
2.5°	1025.9	1029.1	1025.9	1027.7	1030.0	1025.9	1016.3	1012.6	1011.3	1005.8	1002.1
5°	1082.9	1082.9	1081.5	1085.2	1084.7	1078.4	1068.3	1063.7	1059.2	1053.3	1048.7
7.5°	1042.3	1046.0	1048.2	1062.4	1071.5	1072.4	1078.8	1080.2	1082.0	1080.2	1077.4
10°	983.9	982.5	988.9	1002.1	1009.9	1014.0	1026.3	1032.3	1037.3	1047.3	1057.8
12.5°	951.0	952.9	955.6	965.2	972.5	970.7	975.7	979.8	985.7	995.8	1010.8
15°	929.1	931.0	933.7	941.0	945.6	943.3	946.0	948.7	952.9	957.9	967.0
17.5°	905.4	908.6	911.8	919.5	923.6	923.2	925.5	926.4	927.8	931.0	937.3
20°	868.4	878.5	884.9	895.4	901.3	900.4	904.5	905.9	907.7	910.9	913.6
22.5°	834.7	837.4	840.6	852.0	862.0	874.4	877.1	880.8	885.3	888.5	891.2
25°	815.5	813.7	815.0	822.8	828.3	829.2	833.3	845.2	857.5	863.0	869.3
27.5°	804.1	802.3	801.8	805.5	806.4	804.1	803.2	806.8	816.0	825.1	844.2
30°	791.8	789.5	787.7	790.9	792.2	789.0	783.1	779.9	785.4	787.7	795.4
32.5°	777.2	774.9	774.0	775.8	776.7	774.0	767.6	763.9	763.0	761.2	763.0
35°	760.7	758.5	757.1	757.5	759.4	757.1	751.6	747.0	744.8	739.7	736.1
37.5°	392.0	555.4	721.0	738.4	740.2	739.7	734.3	729.2	727.0	721.0	719.2
40°	179.3	200.3	300.7	392.9	566.8	720.1	715.1	710.1	706.0	704.1	697.3
42.5°	178.9	179.3	179.8	177.5	220.0	374.7	553.1	690.5	687.7	683.2	678.1
45°	178.9	176.6	178.4	175.7	176.6	176.2	219.5	354.1	630.2	658.5	656.2
47.5°	177.1	175.7	177.5	175.2	172.5	173.9	172.0	174.3	272.0	461.4	632.0
50°	168.8	169.8	173.0	172.5	170.2	172.0	168.8	171.6	169.3	185.7	357.8
52.5°	156.5	158.4	161.5	164.3	165.2	167.5	166.6	167.5	165.7	166.1	166.6
55°	141.9	144.2	146.9	151.1	152.9	156.5	159.3	160.6	162.9	162.5	158.8
57.5°	128.2	130.5	132.8	136.9	141.0	142.8	147.9	150.6	156.5	155.2	154.2
60°	115.5	117.3	119.6	120.5	125.5	128.7	133.3	136.0	143.7	145.6	148.3
62.5°	104.0	105.0	106.8	108.2	111.3	114.5	116.8	121.4	125.5	131.4	135.5
65°	93.6	94.5	95.8	96.7	97.2	101.8	103.1	108.2	109.5	115.9	119.6
67.5°	81.7	83.5	85.3	86.2	87.2	89.9	90.8	93.1	96.3	99.0	103.6
70°	69.4	70.7	72.6	73.9	75.8	77.6	80.3	81.7	84.0	85.8	89.4
72.5°	58.0	59.3	60.2	61.6	63.0	64.3	66.6	69.8	71.6	74.8	75.8
75°	47.0	48.4	49.3	50.2	51.6	52.5	53.4	56.6	58.4	61.2	63.9
77.5°	38.8	38.8	39.7	42.4	42.0	42.0	42.9	44.7	46.1	47.9	50.7
80°	30.1	30.6	31.0	33.3	33.8	34.2	33.8	35.1	36.5	37.0	38.8
82.5°	22.4	22.8	22.8	24.2	25.6	25.6	25.6	26.0	27.4	27.8	28.7
85°	15.1	15.5	16.0	16.4	17.3	17.8	18.3	18.3	19.2	19.6	20.1
87.5°	8.2	9.1	9.6	10.0	10.5	11.0	11.4	11.9	12.3	12.8	13.2
90°	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):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8	995.8
2.5°	1000.8	998.5	997.1	993.5	992.6	986.6	987.5	986.6	986.6	988.0	992.6
5°	1043.7	1032.7	1030.0	1022.2	1015.8	1004.9	998.0	994.4	988.9	986.6	989.8
7.5°	1072.9	1064.7	1057.8	1051.0	1041.8	1029.1	1019.5	1008.5	999.4	990.7	988.5
10°	1067.9	1077.0	1077.0	1072.9	1064.2	1051.4	1040.0	1026.3	1010.4	996.7	988.5
12.5°	1025.4	1041.4	1054.2	1063.7	1072.4	1063.7	1052.3	1041.4	1023.6	1003.5	988.5
15°	978.9	995.3	1011.3	1031.3	1052.3	1061.0	1060.6	1047.8	1031.8	1010.8	989.8
17.5°	946.0	957.4	966.1	988.0	1013.5	1035.9	1051.0	1051.9	1036.4	1017.7	990.3
20°	921.4	929.6	936.9	949.2	971.6	998.9	1026.8	1042.3	1039.6	1019.0	991.6
22.5°	899.0	904.9	910.9	920.0	937.8	955.6	988.0	1019.9	1033.6	1016.7	990.3
25°	876.6	883.0	887.6	894.0	908.1	922.7	945.6	985.3	1015.8	1014.9	987.5
27.5°	850.2	858.8	864.3	873.0	882.6	893.5	909.0	946.5	990.3	1005.8	980.2
30°	818.2	831.0	839.2	848.8	857.0	866.6	878.9	901.7	956.0	988.0	972.5
32.5°	772.1	795.0	813.2	822.3	831.5	839.7	850.6	869.8	914.1	963.8	963.8
35°	739.3	749.8	766.2	792.7	804.1	812.3	822.3	837.4	865.7	935.1	949.7
37.5°	713.7	717.8	726.1	752.1	773.5	786.7	796.8	806.4	834.2	895.8	931.4
40°	694.6	693.2	692.3	704.6	735.2	756.2	767.6	777.2	798.6	848.8	907.2
42.5°	672.2	670.8	666.3	669.5	684.5	719.7	737.0	747.5	765.3	799.5	880.8
45°	648.9	646.6	644.8	641.6	647.1	666.7	702.3	717.8	727.9	758.5	847.4
47.5°	625.2	622.0	619.7	617.0	613.8	622.9	656.7	684.5	701.9	721.0	807.3
50°	591.4	595.5	592.8	589.6	586.9	585.0	599.2	644.8	666.3	681.8	758.5
52.5°	278.8	542.1	565.0	561.8	558.1	554.9	558.1	592.8	631.6	643.9	699.6
55°	158.8	241.4	502.4	531.2	528.0	523.4	520.7	532.6	590.5	606.9	645.7
57.5°	152.9	153.3	221.8	478.7	496.5	492.4	489.2	491.9	541.2	569.1	598.7
60°	147.9	147.9	147.9	211.7	457.7	459.1	455.0	450.4	471.9	526.6	551.3
62.5°	136.9	139.6	141.0	141.0	209.0	423.9	419.8	418.5	419.4	475.5	503.8
65°	122.8	129.1	131.9	133.7	133.7	219.5	383.8	381.5	378.3	399.8	455.9
67.5°	107.2	113.6	119.6	123.2	123.7	127.8	229.1	343.6	339.1	339.5	404.8
70°	91.3	96.7	103.1	108.6	113.6	115.9	119.6	285.2	300.3	293.9	346.8
72.5°	78.9	81.2	85.8	91.3	97.2	102.7	105.9	113.6	260.6	253.7	263.8
75°	65.7	67.5	70.7	74.4	78.9	85.3	90.8	96.3	138.3	212.7	211.3
77.5°	51.1	54.3	58.0	60.2	62.5	67.1	74.4	79.9	85.3	143.7	169.3
80°	39.2	41.5	43.4	45.6	48.4	51.6	54.3	60.7	67.1	72.1	129.6
82.5°	29.2	30.6	31.9	32.9	33.8	35.6	40.6	42.9	47.0	51.6	61.2
85°	20.5	21.4	22.4	22.8	23.3	23.7	25.6	26.0	30.1	31.0	37.0
87.5°	13.2	13.7	14.6	15.1	15.1	15.5	16.0	16.0	16.0	15.1	18.3
90°	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):

	357.5°	360°
0°	995.8	995.8
2.5°	996.2	1003.5
5°	994.8	1004.4
7.5°	991.2	1000.3
10°	985.7	996.7
12.5°	979.8	990.3
15°	974.8	982.5
17.5°	969.3	973.8
20°	962.0	965.6
22.5°	954.7	952.9
25°	946.5	942.4
27.5°	936.0	928.2
30°	926.4	912.7
32.5°	917.3	894.9
35°	904.9	876.6
37.5°	892.2	857.9
40°	877.1	836.5
42.5°	861.1	815.0
45°	841.1	794.5
47.5°	823.3	769.9
50°	798.6	743.4
52.5°	768.5	718.7
55°	732.9	688.6
57.5°	694.6	657.1
60°	653.5	621.1
62.5°	603.7	583.7
65°	545.3	540.8
67.5°	469.1	493.3
70°	384.7	439.0
72.5°	321.7	381.5
75°	263.8	317.2
77.5°	209.0	248.7
80°	130.5	182.1
82.5°	87.6	119.6
85°	52.9	57.0
87.5°	20.5	21.0
90°	0.0	0.0

(END OF REPORT)