

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: P1212974

Luminaire Tested: 2SNLED-LD5-21SL-RW-UNV-L930-CD1-U

Issue Date: 3/29/2018

Test Information

Test Method: LM-79-2019
Report Number: P1212974
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-L930-CD1-U
Description: 2FT LINEAR SNLED LED FIXTURE
WHITE REFLECTOR
Light Source: -
Ballast/Driver: -

Summary

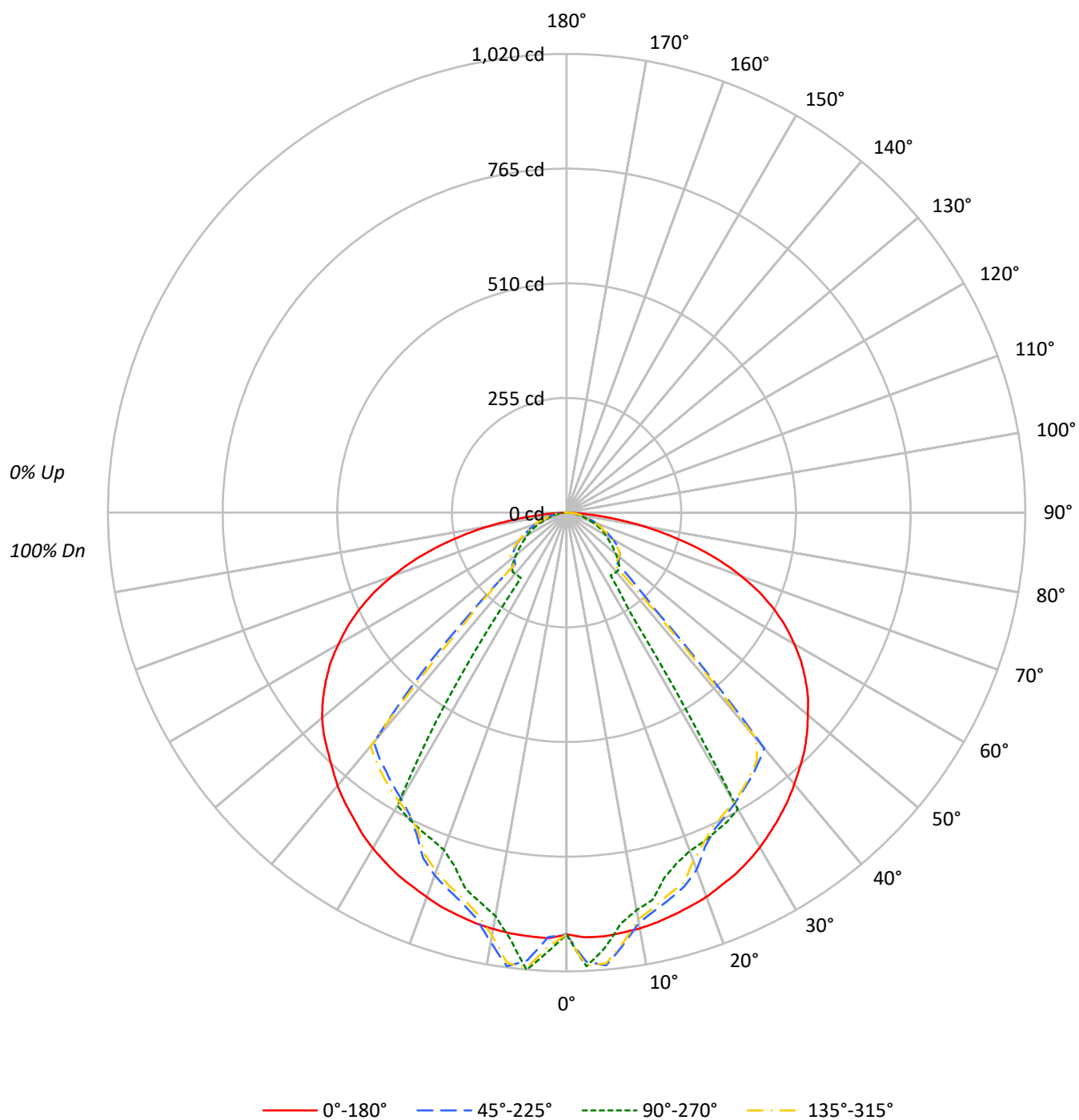
Lumens per Lamp: N/A
Luminaire Lumens: 1878.0 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.36 / 1.16 / 1.2
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 2' x H: 0.12')
CIE Type: Direct

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



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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	0
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°	15157	15157	15157	15157
5°	15264	15271	15258	16027
10°	15237	13807	15259	14018
15°	15229	12775	15263	13180
20°	15295	12116	15295	12071
25°	15378	11885	15401	11774
30°	15483	11675	15523	11537
35°	15606	2659	15640	2773
40°	15793	2766	15889	2854
45°	16097	2750	16153	2850
50°	16383	2486	16605	2554
55°	16778	2207	16910	2240
60°	17063	1961	17098	1986
65°	17175	1712	17131	1684
70°	16676	1379	16624	1331
75°	15125	1061	15236	1017
80°	11785	756	12259	690
85°	5809	452	6133	347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°

Vertical Angle: 57.5°

Luminance: 17557 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.3	4.9
10°-20°	253.7	13.5
20°-30°	375.8	20.0
30°-40°	378.6	20.2
40°-50°	295.8	15.7
50°-60°	228.5	12.2
60°-70°	153.4	8.2
70°-80°	78.2	4.2
80°-90°	21.8	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°	721.7	38.4
0°-40°	1100.4	58.6
0°-60°	1624.6	86.5
0°-90°	1878.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1878.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	938	938	938	938	938	
5°	946	972	946	1020	946	90
15°	925	840	928	867	925	262
25°	888	783	889	776	888	409
35°	826	170	827	178	826	517
45°	748	166	751	172	748	577
55°	649	120	654	122	649	579
65°	509	81	508	80	509	501
75°	299	41	301	39	299	312
85°	54	13	57	10	54	74
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°	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8
2.5°	945.1	948.6	951.1	952.9	953.7	953.7	954.2	954.6	960.2	962.8	964.5
5°	946.0	949.4	954.6	961.5	967.5	972.6	976.9	983.0	989.0	995.4	997.6
7.5°	942.1	946.4	956.7	969.2	980.8	989.0	994.6	998.4	1001.4	1001.9	1004.0
10°	938.7	946.4	960.6	976.9	991.5	1001.4	1001.4	999.3	1002.3	990.7	979.1
12.5°	932.7	941.3	960.6	982.1	995.8	999.7	998.0	989.4	971.8	957.6	951.1
15°	925.4	937.0	961.0	985.1	996.7	998.0	981.7	959.7	946.4	937.8	927.1
17.5°	917.2	932.7	961.5	985.5	989.8	983.8	952.9	939.1	925.4	905.2	890.5
20°	909.5	924.5	958.0	979.5	982.1	955.0	930.9	916.3	893.1	875.5	869.1
22.5°	897.4	915.0	955.0	971.3	961.5	930.1	906.9	883.7	862.6	857.5	849.7
25°	887.5	906.0	948.1	961.5	935.2	907.3	880.2	853.2	843.3	836.0	829.1
27.5°	874.2	897.0	939.1	943.4	907.3	882.8	843.3	831.2	822.2	814.0	811.0
30°	859.6	887.5	926.7	918.5	884.1	848.0	818.8	807.6	801.1	792.6	789.1
32.5°	842.8	873.4	912.9	889.7	859.2	814.0	795.1	786.5	777.9	771.5	750.0
35°	825.6	860.9	896.6	862.2	829.1	788.3	771.5	763.8	755.6	732.0	709.6
37.5°	808.0	847.1	876.8	832.5	789.1	761.6	747.4	738.8	720.3	690.3	679.1
40°	787.8	830.4	851.4	802.0	754.3	734.5	721.2	712.6	670.9	657.6	654.2
42.5°	767.6	814.0	820.5	772.4	725.5	705.7	694.6	666.2	637.8	630.9	632.2
45°	748.3	796.4	786.5	730.2	695.4	679.1	660.2	621.1	606.0	609.5	610.3
47.5°	725.1	775.4	750.9	688.1	664.5	648.1	606.0	582.4	580.2	585.0	587.5
50°	700.1	751.7	713.0	649.9	630.9	611.6	563.9	551.9	554.4	559.2	562.2
52.5°	676.9	725.1	673.9	614.2	597.9	553.6	521.3	523.5	527.8	533.4	535.1
55°	648.6	692.8	632.2	578.1	562.6	504.6	490.0	495.1	499.4	504.2	507.6
57.5°	618.9	655.9	582.8	537.7	512.8	461.2	462.5	465.9	468.9	474.5	196.0
60°	585.0	613.8	528.7	500.3	450.9	426.8	428.1	434.1	437.1	244.1	135.0
62.5°	549.7	564.8	479.7	457.7	394.1	392.4	398.4	401.0	272.9	128.9	126.4
65°	509.3	506.3	431.5	396.7	355.4	357.2	363.6	350.7	120.8	120.8	119.9
67.5°	464.6	446.6	384.7	328.4	318.1	321.9	328.8	114.8	111.7	112.6	109.6
70°	413.5	388.1	336.1	278.1	281.5	285.4	110.9	104.0	102.7	100.6	94.6
72.5°	359.3	324.5	275.1	241.5	243.7	153.0	97.1	93.7	89.4	85.1	78.7
75°	298.7	253.6	202.0	202.0	205.0	87.2	84.7	79.1	74.4	68.8	64.9
77.5°	234.2	195.1	156.9	162.9	79.5	73.1	68.3	62.3	58.5	55.0	52.9
80°	171.5	136.2	118.2	105.7	61.9	55.4	50.7	47.3	45.6	43.4	40.8
82.5°	112.6	82.1	82.1	49.9	43.4	38.3	37.0	34.4	32.7	31.4	30.1
85°	53.7	47.7	36.1	30.5	27.1	24.5	23.6	22.3	22.3	21.9	21.5
87.5°	19.8	21.5	15.9	15.5	14.6	14.2	14.6	14.6	15.0	14.6	14.2
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):

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
0°	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8
2.5°	968.8	972.2	974.8	979.1	984.7	989.4	993.7	999.7	1009.2	1011.8	1013.9
5°	997.6	998.9	1001.9	1005.3	1006.2	1008.3	1007.9	1010.5	1011.8	1014.8	1008.3
7.5°	999.3	992.4	984.2	976.9	971.8	967.1	964.0	968.8	971.3	973.5	967.1
10°	963.2	955.0	950.3	946.0	940.8	933.5	923.6	925.8	924.9	924.9	922.8
12.5°	940.4	928.8	916.8	906.0	901.3	900.9	901.3	906.0	906.0	905.6	903.0
15°	904.7	893.6	887.5	885.0	885.0	883.7	883.7	888.8	887.5	887.5	886.2
17.5°	881.1	873.4	869.1	866.0	864.8	866.9	869.5	871.6	872.1	870.3	863.5
20°	861.8	854.4	849.3	850.1	849.7	851.0	852.3	845.0	836.0	823.9	818.3
22.5°	841.5	836.0	832.1	832.1	826.9	818.8	806.7	804.2	802.9	797.3	792.6
25°	822.2	815.8	810.2	793.0	782.2	783.5	781.4	777.1	776.6	776.2	777.9
27.5°	802.9	786.1	764.6	762.0	757.7	757.3	759.9	762.0	762.0	763.8	765.9
30°	762.9	743.6	739.7	735.0	736.7	742.7	744.0	747.0	747.9	750.9	752.6
32.5°	726.4	717.8	714.3	716.5	722.1	727.2	730.2	731.5	733.7	736.2	738.4
35°	696.7	694.1	697.1	701.9	707.5	711.7	714.3	716.9	719.1	721.2	722.9
37.5°	674.8	676.5	680.8	686.8	692.4	695.8	698.0	701.0	704.0	706.6	696.3
40°	654.2	658.5	663.2	669.6	674.4	677.8	679.9	683.8	658.0	297.9	163.3
42.5°	636.1	640.8	644.3	649.4	654.6	657.2	638.3	285.0	161.2	160.3	162.5
45°	614.2	618.1	623.6	627.5	632.2	415.2	158.6	160.3	157.7	159.5	160.3
47.5°	591.8	597.9	600.9	573.4	170.6	157.7	156.0	157.7	156.0	158.2	156.9
50°	566.5	573.8	408.3	154.3	153.0	152.1	153.9	153.0	154.3	156.0	152.6
52.5°	540.7	334.8	149.6	148.7	149.6	148.7	151.7	149.6	150.0	148.3	144.0
55°	183.1	144.8	143.6	143.1	145.7	145.7	145.7	142.3	140.1	135.8	132.8
57.5°	140.1	140.1	139.7	140.1	139.3	138.4	134.5	131.5	128.5	122.5	120.8
60°	132.8	132.8	132.8	132.8	128.9	127.2	121.2	118.6	113.5	110.5	108.7
62.5°	126.8	125.9	122.1	120.8	116.5	111.7	108.3	105.7	100.6	98.9	97.6
65°	118.2	115.2	110.5	105.3	103.2	98.0	96.3	92.4	89.8	88.5	87.7
67.5°	104.0	99.7	95.8	92.4	88.5	86.8	84.7	81.7	79.9	79.1	78.2
70°	89.0	86.0	82.1	79.9	77.4	76.1	73.1	72.2	70.9	69.6	68.3
72.5°	74.4	72.6	70.9	67.9	67.0	66.2	63.2	61.5	59.7	58.0	57.2
75°	62.3	61.0	60.2	57.6	56.3	53.7	51.6	50.3	49.0	47.7	46.8
77.5°	51.1	50.3	47.7	46.0	45.1	43.0	42.1	42.6	41.7	40.0	39.1
80°	40.0	39.1	37.0	37.0	36.1	35.2	34.4	33.5	32.7	31.4	30.5
82.5°	30.5	29.7	28.8	27.9	27.1	26.6	26.2	25.4	24.5	23.6	23.2
85°	21.5	21.1	20.6	20.2	19.8	19.3	18.9	18.1	17.2	16.8	16.3
87.5°	14.6	14.2	13.8	13.3	12.9	12.5	12.0	11.6	10.7	10.3	9.9
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°	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8
2.5°	1013.9	1016.0	1013.9	1009.2	1006.2	1004.9	1007.5	1007.5	1009.2	1011.3	1011.8
5°	998.0	992.8	986.8	980.8	977.8	976.1	971.3	972.2	973.5	974.4	975.2
7.5°	958.5	951.6	943.4	935.7	932.7	930.1	924.5	924.5	924.5	924.9	927.5
10°	918.1	915.0	911.6	906.4	902.6	901.3	896.6	897.9	897.0	898.3	901.3
12.5°	899.1	895.7	892.7	887.5	883.2	881.5	879.4	880.7	880.2	882.4	885.0
15°	882.0	880.2	876.8	872.9	869.1	865.6	857.9	855.3	853.6	851.4	854.4
17.5°	853.6	841.5	833.4	827.4	823.1	820.1	817.9	817.9	819.2	820.5	823.1
20°	814.9	811.5	807.6	801.1	796.9	795.1	793.8	793.8	796.0	797.7	802.4
22.5°	788.3	787.8	786.5	783.5	781.4	781.4	781.8	782.7	785.7	788.3	793.0
25°	775.8	777.5	776.6	774.9	773.6	774.1	773.2	774.1	777.1	779.7	783.5
27.5°	765.9	768.5	767.6	765.0	762.9	763.8	765.0	764.2	766.8	769.8	772.8
30°	752.6	753.0	754.7	751.7	750.9	752.2	752.6	753.4	756.0	758.2	760.7
32.5°	737.5	741.0	740.5	737.5	737.5	738.8	739.3	710.5	656.7	565.6	540.7
35°	722.9	726.8	720.3	607.3	420.3	224.4	173.2	167.2	168.5	169.3	170.2
37.5°	534.7	253.6	161.6	162.9	164.2	165.5	166.8	168.1	169.3	170.6	171.1
40°	160.7	160.3	161.6	163.3	164.6	165.5	167.2	168.5	169.8	171.1	171.5
42.5°	159.0	159.9	161.2	162.9	164.6	166.3	167.6	169.3	170.2	171.1	171.5
45°	158.2	159.9	161.6	162.9	164.2	165.0	165.9	166.3	165.9	165.9	166.8
47.5°	156.9	158.6	159.0	158.6	159.0	158.6	158.6	158.6	157.3	156.9	156.9
50°	152.1	152.1	151.3	149.6	149.1	148.7	147.9	147.4	145.7	145.3	145.3
52.5°	142.3	141.8	140.5	138.4	137.5	136.7	136.2	135.8	134.1	133.2	133.7
55°	130.7	129.8	128.5	125.9	125.5	124.6	124.2	123.8	122.1	122.9	121.6
57.5°	119.9	118.2	116.5	116.0	114.3	113.9	113.5	113.0	111.7	112.2	111.3
60°	107.0	106.6	105.7	104.0	104.0	103.6	103.6	102.7	101.9	101.4	101.4
62.5°	97.6	96.3	95.4	95.4	94.1	94.1	94.1	93.3	92.4	92.8	92.4
65°	87.2	86.8	86.4	85.5	85.5	85.1	85.1	84.2	83.0	83.4	82.5
67.5°	78.7	77.8	76.9	76.5	74.8	73.9	73.5	73.1	71.3	71.8	70.9
70°	67.9	66.6	65.8	64.9	63.6	62.8	62.8	61.9	60.6	61.0	60.2
72.5°	56.7	55.9	55.0	54.6	53.3	52.9	52.4	52.0	50.7	51.1	50.7
75°	47.3	47.3	46.8	46.4	45.1	43.8	43.0	42.6	41.7	42.1	41.3
77.5°	39.1	38.3	37.4	37.4	36.1	35.2	34.4	34.4	34.4	34.0	33.5
80°	30.5	29.7	29.7	29.2	28.4	27.5	27.1	27.1	26.6	26.6	26.2
82.5°	23.2	22.3	21.9	21.9	21.1	20.6	20.2	19.8	19.8	19.8	19.3
85°	16.3	15.5	15.0	15.0	14.2	13.8	13.8	13.3	13.3	12.9	12.9
87.5°	9.9	9.5	9.0	9.0	8.2	7.7	7.7	7.7	7.3	7.3	6.9
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):

	82.5°	85°	87.5°	90°	92.5°	95°	97.5°	100°	102.5°	105°	107.5°
0°	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8
2.5°	1011.8	1011.8	1008.7	1009.6	1008.3	1010.0	1007.9	1007.9	1010.5	1010.5	1012.2
5°	975.6	973.5	973.1	972.2	967.9	969.6	967.5	965.3	968.3	968.3	972.2
7.5°	926.2	922.4	924.1	921.5	918.9	915.0	916.3	914.6	916.8	919.8	923.6
10°	900.9	897.4	899.6	897.0	898.3	892.7	893.1	893.6	895.7	896.6	900.0
12.5°	884.5	883.7	882.8	882.0	882.8	879.8	878.1	878.5	879.4	879.8	882.4
15°	850.1	844.6	846.3	840.3	840.7	841.1	837.7	841.1	840.7	846.3	851.4
17.5°	822.2	822.2	819.2	816.6	814.9	814.5	811.9	813.6	811.9	815.3	816.6
20°	802.9	802.4	802.0	800.7	796.4	796.9	798.1	794.3	793.8	793.4	796.0
22.5°	793.8	794.3	792.6	792.6	788.7	789.5	790.0	785.7	786.1	784.8	786.1
25°	784.4	785.2	783.1	783.1	782.2	781.8	779.7	780.5	777.9	775.8	777.9
27.5°	773.2	774.9	773.2	774.1	772.4	771.5	770.2	769.3	766.8	766.3	767.6
30°	762.9	763.8	763.3	761.2	760.7	758.2	759.5	756.9	754.3	754.7	755.6
32.5°	391.1	373.5	288.0	260.0	257.5	266.9	316.3	385.1	499.0	609.5	689.0
35°	170.6	170.6	170.6	170.2	170.2	169.8	169.3	168.9	168.5	168.1	167.6
37.5°	171.5	171.5	171.5	171.5	171.1	170.6	170.6	169.8	169.3	168.9	168.5
40°	171.9	172.4	172.4	172.4	171.9	171.9	171.5	170.6	170.2	169.3	168.5
42.5°	171.5	171.9	171.9	171.5	171.5	171.1	171.1	170.6	170.2	169.8	169.3
45°	165.9	166.3	165.5	165.5	165.0	165.0	165.0	165.0	165.0	165.5	165.5
47.5°	156.0	156.0	155.6	155.2	155.2	154.7	155.2	154.7	155.6	156.0	156.9
50°	144.4	144.4	143.6	143.1	143.1	143.1	143.1	143.6	144.0	144.8	145.7
52.5°	132.4	132.4	131.9	131.5	131.1	131.1	132.4	131.9	132.4	132.8	134.1
55°	120.8	121.2	120.3	120.3	119.9	119.9	119.9	120.3	120.8	121.2	122.5
57.5°	110.9	110.9	110.0	110.0	110.0	109.6	110.9	110.0	110.5	110.9	111.7
60°	101.0	100.6	100.6	100.1	100.1	100.1	101.0	100.6	100.6	101.0	101.9
62.5°	92.0	92.0	91.5	91.5	91.1	91.1	92.0	91.5	91.5	92.0	92.4
65°	81.7	81.7	81.2	80.8	82.1	80.8	82.1	81.2	82.1	82.5	83.4
67.5°	70.1	70.1	70.1	69.6	69.6	70.5	70.9	70.1	70.5	71.3	71.8
70°	59.7	59.7	59.3	59.3	59.3	60.2	60.6	59.7	60.2	60.6	61.5
72.5°	50.7	49.9	49.9	49.4	50.3	50.3	50.7	50.3	50.7	50.7	51.6
75°	41.7	40.8	40.8	40.8	41.7	41.3	41.7	41.3	41.7	41.7	42.1
77.5°	33.5	33.1	32.7	32.7	33.5	33.5	33.5	33.1	33.5	34.0	34.4
80°	26.2	25.8	25.4	25.4	26.2	26.2	26.2	26.6	26.2	26.6	27.1
82.5°	19.3	18.9	18.5	19.3	19.3	19.3	19.3	19.8	19.3	19.8	20.2
85°	12.9	12.5	12.0	12.9	12.9	12.9	12.9	13.3	12.9	13.3	13.8
87.5°	6.9	6.4	6.4	6.9	6.9	6.9	7.3	7.3	7.3	7.7	7.7
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: P1212974

CATALOG NUMBER: 2SNLED-LD5-21SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	132.5°	135°
0°	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8
2.5°	1014.8	1016.0	1015.6	1013.0	1010.5	1007.5	1005.3	1005.7	1010.0	1011.3	1007.5
5°	972.2	980.4	980.4	986.0	983.0	980.4	982.1	991.5	996.3	1003.6	1006.2
7.5°	928.4	932.2	931.8	937.4	936.5	936.5	937.8	950.3	956.3	962.3	964.0
10°	903.9	907.7	907.3	907.7	906.4	903.4	903.4	909.0	914.2	917.2	918.1
12.5°	886.2	888.4	888.0	888.0	887.1	884.5	884.1	888.8	894.4	898.3	898.7
15°	860.0	866.0	867.3	872.9	871.6	868.2	869.1	872.9	876.4	879.8	878.5
17.5°	820.9	823.9	824.4	826.5	825.6	825.6	830.8	845.0	854.4	862.6	863.5
20°	798.6	800.7	799.9	804.6	802.4	802.0	803.3	809.3	813.6	817.5	824.4
22.5°	787.8	789.5	788.3	788.7	784.8	781.4	780.5	785.2	790.0	795.1	795.1
25°	778.8	780.1	779.7	778.8	775.8	771.1	770.2	771.1	772.8	773.2	770.2
27.5°	768.1	768.9	768.9	769.3	765.5	761.2	760.3	759.5	761.2	760.7	756.0
30°	756.9	755.6	756.0	756.4	753.0	749.1	747.4	747.0	748.7	748.3	743.6
32.5°	730.2	740.1	741.0	741.8	738.8	735.4	733.7	732.4	733.2	732.8	728.5
35°	167.2	170.2	208.5	471.9	640.8	709.6	716.9	715.2	715.6	715.6	712.2
37.5°	167.6	167.2	166.8	165.5	164.2	163.3	282.4	602.2	697.6	698.0	695.0
40°	167.6	167.2	166.8	165.9	164.2	162.9	160.7	159.0	162.9	358.5	655.9
42.5°	168.5	167.6	166.8	165.9	164.2	162.5	160.7	158.6	159.9	159.0	156.9
45°	165.9	165.5	165.5	165.0	164.2	162.5	160.3	157.7	156.4	157.7	155.6
47.5°	157.7	158.2	159.5	159.9	159.9	160.3	159.0	157.3	155.2	156.4	153.9
50°	146.6	147.4	147.9	150.0	150.9	152.6	153.0	153.0	152.6	154.3	152.6
52.5°	134.5	135.4	137.5	138.4	139.3	141.8	142.7	144.0	144.8	147.4	149.1
55°	122.9	123.4	124.2	125.9	127.2	129.4	130.7	131.9	134.1	135.4	140.5
57.5°	112.2	112.6	114.3	114.8	115.6	117.3	118.6	120.3	122.1	122.9	128.9
60°	101.9	102.3	103.6	104.0	104.4	106.2	107.5	108.7	110.0	110.9	115.2
62.5°	92.8	92.8	94.1	94.1	94.6	95.8	96.7	97.6	98.9	99.3	101.4
65°	83.8	84.2	85.1	85.1	85.5	86.4	86.8	87.2	88.5	88.5	90.3
67.5°	72.6	73.1	74.4	75.2	75.6	77.4	77.8	78.2	79.1	79.5	80.4
70°	61.9	62.3	63.6	64.0	64.5	65.8	66.6	67.9	69.2	70.5	71.3
72.5°	52.0	52.4	53.7	53.7	55.0	55.4	56.3	56.7	58.0	58.9	60.2
75°	42.6	43.0	44.3	44.3	45.6	46.0	46.4	46.8	47.7	48.6	49.4
77.5°	34.8	34.8	36.5	37.4	38.3	38.3	38.7	38.7	38.7	39.1	40.0
80°	27.5	27.5	28.8	29.7	30.5	30.5	30.9	31.4	31.8	31.8	32.2
82.5°	20.6	20.6	21.9	22.3	23.2	23.2	23.2	23.6	24.1	23.6	24.5
85°	14.2	14.2	15.0	15.5	16.3	16.3	16.3	16.8	17.2	16.8	17.2
87.5°	8.2	8.6	9.0	9.5	9.9	10.3	10.3	10.3	10.7	10.7	11.2
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: P1212974

CATALOG NUMBER: 2SNLED-LD5-21SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	137.5°	140°	142.5°	145°	147.5°	150°	152.5°	155°	157.5°	160°	162.5°
0°	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8
2.5°	1003.2	998.0	997.6	991.5	989.8	990.3	985.5	983.8	976.1	974.4	966.2
5°	1007.0	1009.6	1008.3	1007.9	1009.2	1008.3	1004.9	1003.2	1001.9	998.4	991.5
7.5°	964.5	966.2	967.5	973.1	977.8	986.0	994.6	1000.1	1004.4	1005.3	999.7
10°	921.1	929.2	934.8	943.4	950.3	955.0	960.2	964.9	977.4	989.8	997.1
12.5°	898.7	900.9	900.4	905.2	909.9	922.4	934.4	941.3	950.7	956.3	969.6
15°	879.8	880.2	881.5	885.0	887.5	891.8	897.4	907.7	926.7	935.2	942.6
17.5°	862.6	862.6	863.5	866.5	869.9	873.8	877.2	881.5	891.0	905.2	923.2
20°	835.1	847.1	848.4	848.0	849.7	857.0	857.9	865.6	870.3	875.9	893.6
22.5°	794.3	801.6	811.9	827.8	833.8	837.3	839.8	843.3	850.6	857.0	864.3
25°	771.9	776.6	779.7	784.4	796.9	817.1	820.9	824.8	829.5	834.2	843.3
27.5°	752.2	751.7	753.9	758.2	761.6	772.4	791.3	806.3	807.2	814.0	821.8
30°	738.0	735.4	732.4	731.5	736.2	741.8	747.4	771.1	787.4	790.8	799.0
32.5°	724.6	720.3	716.0	712.6	709.6	714.3	717.8	728.1	749.1	768.9	773.2
35°	708.3	704.0	698.9	695.0	690.3	689.8	689.4	699.3	706.2	729.8	750.4
37.5°	691.5	686.8	682.5	678.2	673.5	670.1	667.9	670.5	676.9	687.3	721.6
40°	673.9	668.3	664.0	660.6	654.2	651.6	647.3	645.6	646.0	655.0	673.1
42.5°	402.7	642.1	644.3	640.4	634.8	631.4	626.6	624.5	620.2	624.5	634.8
45°	155.2	156.9	469.8	620.6	613.8	609.5	605.2	603.0	598.3	594.8	604.3
47.5°	152.1	153.9	150.4	213.2	585.8	587.1	581.9	579.8	575.1	572.5	569.9
50°	150.0	151.3	148.7	149.6	146.6	536.8	558.3	555.7	550.6	547.6	542.4
52.5°	147.9	147.9	146.1	144.0	143.1	143.6	451.7	531.2	525.2	522.2	515.3
55°	141.0	141.8	143.6	140.1	139.3	138.8	137.5	430.2	497.3	493.8	487.8
57.5°	130.7	132.4	137.1	136.2	136.2	132.8	131.9	131.9	399.3	465.0	459.0
60°	118.6	120.3	125.5	127.2	128.5	127.7	126.8	126.4	124.6	420.8	428.5
62.5°	106.2	107.9	109.6	115.2	116.9	119.1	121.6	120.3	118.6	118.6	396.3
65°	92.8	95.4	96.3	101.4	103.6	107.5	109.6	112.6	111.7	111.3	113.5
67.5°	81.2	84.2	84.7	86.8	90.7	92.4	95.0	100.6	103.2	104.0	104.9
70°	71.3	73.1	74.4	75.2	77.8	78.2	83.0	86.8	90.7	95.0	96.3
72.5°	61.5	62.8	65.3	64.5	65.3	67.0	69.6	72.2	76.1	82.1	86.0
75°	50.3	51.1	52.9	53.7	55.4	56.7	58.5	60.6	64.0	67.0	72.2
77.5°	40.4	40.8	42.1	42.6	44.3	45.6	48.6	49.9	52.0	54.2	57.2
80°	32.7	32.7	33.1	33.1	34.4	35.7	37.8	39.1	41.7	43.4	43.4
82.5°	24.9	24.9	26.2	26.2	27.1	27.1	28.4	28.4	29.7	30.5	31.4
85°	17.6	18.1	18.9	18.5	19.3	18.9	19.8	20.6	21.1	20.6	20.2
87.5°	11.6	11.6	12.5	12.0	12.5	12.5	13.3	13.3	13.8	13.8	13.3
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: P1212974

CATALOG NUMBER: 2SNLED-LD5-21SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	165°	167.5°	170°	172.5°	175°	177.5°	180°	182.5°	185°	187.5°	190°
0°	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8
2.5°	963.2	956.7	952.9	948.1	946.9	945.6	947.3	947.3	944.7	942.6	938.7
5°	985.5	978.7	971.3	963.6	956.3	948.6	945.6	945.1	940.4	937.8	936.5
7.5°	997.1	993.7	985.5	974.8	963.6	949.9	943.8	940.4	935.7	934.8	934.8
10°	998.4	994.6	990.3	982.5	969.6	951.6	940.0	933.1	928.8	931.8	937.4
12.5°	986.0	993.3	989.4	984.2	973.9	952.0	935.2	924.9	923.6	931.4	946.0
15°	954.2	975.6	986.4	981.2	973.1	951.1	927.5	915.5	915.5	931.4	950.3
17.5°	930.1	946.9	973.1	977.4	967.9	949.4	920.2	906.0	909.9	933.1	953.3
20°	910.3	920.6	946.0	970.1	961.0	945.6	909.5	894.8	902.6	930.5	957.6
22.5°	879.4	900.0	915.5	951.1	954.2	938.3	898.7	881.1	896.6	930.5	955.4
25°	849.3	874.2	890.5	925.4	943.8	929.2	888.8	866.5	890.1	929.2	953.7
27.5°	828.2	839.8	869.5	894.4	928.4	917.2	875.5	850.6	882.0	922.4	943.8
30°	805.9	813.6	842.8	866.5	907.7	903.4	861.8	833.0	871.6	915.9	918.1
32.5°	781.4	790.0	805.0	839.4	878.9	890.5	846.3	815.3	860.5	906.0	888.0
35°	756.4	762.9	774.9	811.9	845.4	871.2	827.4	795.1	852.7	891.0	859.2
37.5°	731.5	738.4	748.7	779.7	810.2	853.2	811.0	774.9	838.5	864.3	829.1
40°	707.9	711.7	722.5	741.8	780.9	834.7	792.6	753.9	823.9	830.4	788.3
42.5°	664.5	683.8	693.7	709.2	747.9	809.3	771.1	731.5	807.6	796.4	747.4
45°	617.6	659.7	664.0	679.5	718.6	782.2	750.9	709.6	792.1	767.2	708.7
47.5°	579.4	609.9	634.8	647.7	683.8	750.4	732.0	691.1	768.9	730.2	670.9
50°	545.4	561.7	606.9	616.3	642.1	712.2	709.6	669.6	736.7	683.8	634.0
52.5°	512.3	523.9	564.8	585.0	606.0	670.9	683.0	648.6	701.4	637.4	596.6
55°	483.5	487.4	509.7	552.3	571.2	629.2	653.7	624.1	656.7	593.1	560.5
57.5°	453.9	450.4	466.8	521.3	535.1	586.7	622.8	599.1	620.6	548.0	523.1
60°	422.9	418.2	425.1	461.2	496.8	544.6	586.2	571.6	576.8	503.3	481.4
62.5°	390.7	386.0	383.8	406.6	459.5	501.1	549.3	541.1	523.1	462.5	429.8
65°	357.2	352.4	349.0	358.0	418.2	444.8	508.0	505.9	464.2	419.5	361.9
67.5°	108.7	320.6	313.3	312.9	352.4	393.7	463.3	459.9	404.9	373.5	311.6
70°	98.0	260.0	276.4	272.5	289.7	341.7	412.2	409.6	347.3	299.6	275.5
72.5°	89.8	92.0	244.1	239.8	243.7	290.5	358.9	352.0	294.4	236.4	238.1
75°	76.9	80.8	84.2	202.4	197.3	240.7	300.9	290.1	242.8	195.1	199.0
77.5°	62.8	67.5	70.1	147.4	159.5	171.5	240.3	226.1	167.2	156.0	74.4
80°	46.8	50.7	55.0	58.9	121.2	119.9	178.4	164.2	116.5	97.1	58.0
82.5°	34.4	35.7	38.3	42.6	48.1	80.4	114.8	101.0	80.8	44.3	40.0
85°	21.5	23.2	24.5	25.8	29.2	48.1	56.7	45.1	34.0	27.1	25.4
87.5°	13.8	13.8	13.3	13.8	14.2	17.2	19.3	18.5	14.6	13.8	13.8
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: P1212974

CATALOG NUMBER: 2SNLED-LD5-21SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	192.5°	195°	197.5°	200°	202.5°	205°	207.5°	210°	212.5°	215°	217.5°
0°	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8
2.5°	934.4	928.4	928.4	926.7	927.9	927.9	927.5	927.9	930.9	932.7	935.7
5°	934.0	932.2	936.1	940.8	946.4	953.3	955.0	961.0	966.6	973.9	981.7
7.5°	939.5	945.6	952.9	960.6	971.8	979.9	987.3	994.6	999.7	1006.6	1010.9
10°	947.7	959.7	972.2	982.1	994.1	1001.0	1005.7	1006.6	999.3	987.7	978.2
12.5°	959.3	973.5	985.1	994.6	1000.1	997.6	983.8	969.6	961.5	949.4	932.7
15°	969.2	982.1	994.1	990.3	975.2	961.0	950.3	933.5	917.2	906.0	898.7
17.5°	973.5	986.0	981.7	961.5	947.3	930.9	909.0	896.1	885.4	876.8	872.5
20°	976.1	973.9	950.7	936.1	908.6	893.6	879.4	867.3	859.2	854.9	854.0
22.5°	969.2	943.0	923.2	897.0	876.8	864.3	853.2	843.3	837.7	834.2	832.1
25°	946.4	915.9	886.7	866.0	848.9	838.1	829.5	821.3	814.5	812.8	808.5
27.5°	914.6	889.7	851.0	835.1	820.1	814.9	805.4	797.3	791.3	786.1	772.4
30°	888.4	848.9	820.9	806.3	797.3	791.3	780.5	771.9	761.6	742.7	735.0
32.5°	856.2	817.1	790.4	782.2	771.1	765.9	753.9	735.0	719.1	711.3	710.9
35°	814.5	782.2	762.9	755.6	746.6	738.0	713.0	695.8	688.1	689.0	695.4
37.5°	779.7	750.9	738.4	728.1	717.8	695.8	674.8	666.6	668.8	673.1	676.1
40°	744.4	722.5	708.3	700.1	676.9	655.4	644.3	647.3	651.1	654.2	658.0
42.5°	710.0	694.6	680.4	664.5	632.7	621.1	623.6	627.5	630.9	635.2	639.1
45°	677.4	663.6	647.3	611.2	595.3	598.3	602.2	605.2	610.3	613.3	617.2
47.5°	646.4	631.8	603.0	571.2	569.5	575.5	578.9	582.8	586.7	578.9	319.3
50°	611.6	596.6	552.7	540.7	544.6	550.1	554.4	558.3	497.3	197.7	152.1
52.5°	577.2	539.0	511.0	514.5	518.3	524.8	527.8	392.0	156.0	148.7	149.1
55°	539.0	490.0	481.8	486.1	489.5	496.0	328.8	144.0	143.1	142.7	146.1
57.5°	478.8	449.1	452.6	456.9	460.3	324.9	140.1	139.3	139.7	140.1	140.5
60°	425.1	418.6	422.5	426.4	301.7	135.4	132.8	133.2	135.0	133.7	130.2
62.5°	382.5	387.7	391.5	343.0	128.5	127.2	128.5	127.2	124.2	122.1	117.8
65°	349.9	355.0	358.0	120.8	120.3	122.1	120.8	116.5	111.7	105.7	104.4
67.5°	315.5	320.6	114.8	111.7	113.5	111.3	106.2	101.0	97.6	92.4	90.3
70°	279.8	119.9	104.0	103.6	100.6	97.1	91.5	86.4	82.1	79.9	77.8
72.5°	202.0	95.0	93.7	90.3	85.1	80.4	75.6	72.6	70.5	69.2	67.9
75°	84.2	82.5	78.7	72.6	67.5	65.3	61.9	59.7	58.9	56.3	55.4
77.5°	70.5	67.0	61.5	57.2	54.2	52.9	50.3	47.7	46.4	46.0	44.3
80°	54.2	49.4	46.8	44.7	43.8	40.8	37.8	36.5	35.7	35.2	34.0
82.5°	37.0	35.2	33.5	30.5	30.5	29.2	27.9	27.1	26.2	26.2	25.4
85°	24.1	22.8	22.3	21.1	21.1	20.2	19.8	19.3	18.9	18.5	18.1
87.5°	13.8	13.8	14.2	13.8	13.8	13.3	12.9	12.5	12.0	12.0	11.2
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: P1212974

CATALOG NUMBER: 2SNLED-LD5-21SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	220°	222.5°	225°	227.5°	230°	232.5°	235°	237.5°	240°	242.5°	245°
0°	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8
2.5°	939.5	943.8	944.7	959.3	967.5	967.1	964.5	972.2	967.5	964.9	967.5
5°	989.4	994.6	998.9	1014.8	1020.3	1022.9	1022.5	1026.8	1023.4	1020.3	1020.3
7.5°	1013.9	1015.6	1017.3	1013.5	1010.9	1006.6	1000.1	990.7	986.0	980.8	974.4
10°	973.5	967.9	970.1	962.3	955.9	951.1	945.1	937.4	930.9	926.2	918.9
12.5°	924.1	923.6	924.5	925.8	919.3	915.5	910.7	905.2	900.4	895.3	889.3
15°	894.0	894.4	897.9	896.6	894.4	892.3	887.1	885.4	881.1	875.5	872.1
17.5°	872.5	874.6	878.1	876.4	872.9	870.8	866.9	863.0	859.2	854.9	849.7
20°	853.6	855.7	857.9	855.7	849.3	846.3	841.1	829.1	820.5	811.9	804.2
22.5°	833.0	834.2	832.5	825.6	809.3	801.6	795.6	792.1	784.8	780.1	775.4
25°	807.2	799.9	788.7	780.9	774.5	771.1	768.5	768.1	767.2	766.3	764.2
27.5°	765.0	762.5	756.4	753.4	753.9	755.2	755.6	756.9	755.6	753.9	752.2
30°	733.7	735.0	735.4	736.2	738.4	739.7	740.1	741.8	741.0	739.7	738.8
32.5°	713.9	716.9	718.6	721.2	722.5	724.6	724.6	727.2	724.6	724.2	723.4
35°	697.6	700.1	701.0	704.9	706.2	708.3	708.3	710.5	708.3	686.4	542.0
37.5°	681.2	683.8	685.5	689.0	689.4	690.7	637.4	466.3	300.9	233.0	177.9
40°	661.9	664.9	666.6	667.9	469.3	297.9	205.0	166.8	166.8	168.1	169.3
42.5°	641.3	643.4	448.3	260.9	162.5	162.0	163.3	164.6	165.9	167.6	169.3
45°	504.2	254.4	161.6	157.7	159.0	160.7	162.5	164.2	166.3	168.1	168.9
47.5°	165.5	155.2	157.3	155.6	157.7	159.9	161.6	163.3	163.8	164.2	163.8
50°	153.0	153.0	154.3	154.3	156.0	156.9	156.9	156.9	155.2	154.7	153.4
52.5°	147.9	151.3	149.6	150.4	149.6	148.3	147.0	145.7	143.1	142.3	140.5
55°	145.3	146.6	142.3	141.0	139.3	135.8	134.1	132.4	130.2	129.4	127.2
57.5°	139.3	136.2	131.5	129.4	126.4	122.9	121.2	119.9	117.8	116.9	115.6
60°	128.1	122.1	119.1	116.5	113.0	110.0	108.7	107.9	106.2	105.7	104.4
62.5°	114.3	109.2	106.6	103.2	100.6	98.9	97.6	97.1	95.4	95.4	94.6
65°	99.3	96.7	94.6	91.1	89.8	88.1	87.7	87.2	86.4	86.0	85.1
67.5°	87.2	85.5	82.5	80.8	79.9	78.7	77.8	76.9	75.2	74.4	73.1
70°	76.5	75.2	72.2	70.9	69.2	67.0	65.8	64.9	63.6	62.8	61.5
72.5°	66.2	62.3	60.2	58.9	57.6	55.4	55.0	54.2	52.9	52.4	51.1
75°	53.3	50.3	49.0	48.1	46.8	45.6	45.6	45.6	44.3	43.8	43.4
77.5°	42.6	40.8	40.0	39.1	38.7	37.8	36.5	36.1	34.8	34.8	34.4
80°	32.7	31.8	30.9	30.5	30.1	29.2	28.4	27.9	26.6	26.6	26.2
82.5°	24.1	23.6	23.2	22.8	22.3	21.9	20.6	20.2	19.3	19.3	18.9
85°	17.2	16.8	15.9	15.5	15.5	15.0	13.8	13.3	12.5	12.5	12.5
87.5°	10.7	10.3	9.9	9.5	9.0	8.6	7.7	7.3	7.3	6.4	6.0
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: P1212974

CATALOG NUMBER: 2SNLED-LD5-21SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	247.5°	250°	252.5°	255°	257.5°	260°	262.5°	265°	267.5°	270°	272.5°
0°	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8
2.5°	962.3	969.6	968.8	973.9	975.2	977.8	978.7	979.1	972.6	977.8	978.2
5°	1019.1	1020.3	1021.2	1023.4	1025.5	1025.9	1023.8	1021.2	1022.1	1020.3	1016.0
7.5°	973.5	967.1	965.8	964.0	963.2	962.3	958.5	961.9	958.0	956.3	950.3
10°	917.6	911.6	911.2	911.2	912.5	912.0	911.2	909.5	912.9	910.7	909.5
12.5°	888.4	886.2	887.5	886.7	890.1	891.0	890.1	890.1	889.3	887.5	888.4
15°	870.8	869.1	870.3	869.1	871.6	872.1	869.9	871.2	869.1	866.9	866.0
17.5°	847.6	843.7	840.7	836.4	836.8	836.0	833.4	833.4	831.2	825.6	826.1
20°	802.9	799.0	797.3	797.3	799.4	800.3	799.9	800.7	798.6	797.7	794.3
22.5°	774.9	774.5	775.4	777.5	780.9	785.7	786.1	786.1	786.1	785.7	781.4
25°	765.0	765.0	765.9	768.9	771.5	774.9	775.8	776.6	775.8	775.8	771.9
27.5°	753.9	753.0	754.7	757.7	760.7	763.3	765.5	765.9	764.6	764.6	765.9
30°	740.1	739.7	741.8	744.8	747.4	750.0	752.2	753.9	752.2	752.2	750.9
32.5°	725.9	725.9	726.8	708.7	657.2	591.8	593.1	555.3	529.1	496.0	539.8
35°	453.0	329.7	283.2	239.8	209.3	189.5	189.1	182.7	179.7	177.5	177.1
37.5°	171.1	171.9	173.6	174.5	175.8	176.6	177.1	177.1	177.1	177.1	176.6
40°	170.6	172.4	173.6	174.9	176.2	177.1	177.1	177.5	177.9	177.9	177.9
42.5°	171.1	172.8	174.5	175.8	176.6	177.1	177.5	177.9	177.9	177.9	177.9
45°	170.6	171.5	171.5	171.9	171.9	171.9	172.4	172.4	171.9	171.5	172.4
47.5°	164.2	164.2	162.9	162.5	162.0	161.2	161.6	161.2	160.7	160.3	161.2
50°	153.0	151.3	150.4	149.6	149.1	148.3	148.7	148.3	147.9	147.0	148.3
52.5°	139.7	139.3	137.5	136.7	136.2	136.7	135.8	135.4	135.0	134.5	135.0
55°	126.8	125.1	124.6	123.8	123.4	123.8	123.4	122.9	122.5	122.1	122.5
57.5°	115.2	113.9	113.5	112.6	112.6	112.6	112.6	112.2	111.7	111.3	111.7
60°	104.0	103.2	102.7	102.7	102.3	102.3	102.3	101.9	101.4	101.4	101.9
62.5°	94.6	94.6	93.3	92.8	92.8	93.3	92.8	92.4	92.0	91.5	92.4
65°	84.7	83.0	82.5	81.7	80.8	81.2	80.8	80.4	79.9	79.5	80.4
67.5°	72.6	72.2	70.5	69.6	69.2	69.6	69.2	68.8	68.3	67.9	68.8
70°	61.0	61.0	59.3	58.9	58.5	58.5	58.0	58.0	57.6	57.2	58.0
72.5°	50.7	50.7	50.3	49.4	49.0	48.6	48.1	47.7	47.7	48.1	48.1
75°	42.1	41.3	39.5	40.0	39.5	39.1	39.1	38.7	38.3	39.1	38.7
77.5°	33.1	32.7	31.4	31.8	31.4	30.9	30.9	30.5	30.1	30.5	30.5
80°	24.9	24.9	24.5	24.1	24.1	23.6	23.2	23.2	22.8	23.2	23.2
82.5°	18.1	18.1	17.6	17.2	16.8	16.8	16.3	16.3	16.3	16.3	16.3
85°	11.6	11.2	11.2	10.3	10.3	10.3	9.9	9.9	9.9	9.9	9.9
87.5°	5.6	5.6	5.2	5.2	4.7	4.3	4.3	3.9	3.9	4.3	4.3
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: P1212974

CATALOG NUMBER: 2SNLED-LD5-21SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	275°	277.5°	280°	282.5°	285°	287.5°	290°	292.5°	295°	297.5°	300°
0°	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8
2.5°	970.5	976.1	971.3	973.5	973.9	981.2	980.8	982.5	979.5	976.1	971.3
5°	1019.9	1017.3	1013.9	1022.1	1017.8	1022.9	1024.6	1028.1	1028.1	1027.7	1023.8
7.5°	956.7	951.1	955.4	958.5	959.7	956.3	963.2	970.9	977.4	981.2	981.7
10°	907.3	909.0	908.6	909.9	912.9	912.5	916.8	921.1	922.8	925.4	926.2
12.5°	884.1	883.7	884.5	887.5	889.3	888.8	893.1	895.7	896.6	897.0	896.6
15°	865.6	862.6	864.8	865.2	866.5	866.5	871.6	875.5	877.2	878.1	877.2
17.5°	830.8	823.5	830.4	830.4	835.1	834.2	842.4	848.9	852.3	854.9	854.9
20°	796.4	793.0	795.6	794.7	798.1	797.7	802.9	807.2	810.2	812.3	814.9
22.5°	782.7	783.5	779.7	780.1	780.1	779.7	782.2	784.4	785.2	786.5	785.7
25°	773.6	774.5	773.2	771.1	770.2	771.1	772.4	774.9	775.4	774.5	771.5
27.5°	764.6	762.0	764.2	760.3	759.5	761.2	762.9	763.3	763.8	763.8	761.2
30°	750.9	748.7	750.9	749.1	747.4	749.1	750.4	750.4	751.3	751.7	748.7
32.5°	524.8	529.1	598.7	640.8	700.1	730.2	735.8	735.8	736.7	736.7	734.1
35°	178.8	179.2	193.8	210.2	245.0	288.0	344.3	373.5	472.4	590.5	704.9
37.5°	176.6	176.2	175.8	175.4	174.9	174.5	173.6	173.2	175.8	208.5	282.8
40°	177.5	177.1	176.2	175.8	175.4	174.5	174.1	173.2	172.4	171.5	170.6
42.5°	177.5	177.1	176.6	176.2	175.8	175.4	174.5	173.6	172.8	171.5	170.2
45°	171.5	171.5	171.9	171.9	172.4	172.4	172.4	171.9	171.9	171.5	169.8
47.5°	160.3	160.3	161.6	161.6	162.5	163.3	163.3	164.2	165.5	166.3	166.8
50°	147.4	147.4	148.7	149.1	150.0	151.3	152.6	153.0	154.3	156.0	157.7
52.5°	134.5	134.5	135.8	135.8	136.7	138.0	139.3	139.7	141.4	143.1	145.3
55°	122.5	122.5	123.4	123.8	124.2	125.1	126.4	126.4	128.1	129.4	131.5
57.5°	111.7	112.6	112.6	112.6	113.0	113.9	114.8	114.8	116.0	117.3	119.1
60°	101.4	102.3	102.3	102.3	102.7	103.2	104.0	104.0	104.9	105.7	107.5
62.5°	92.0	92.8	92.8	93.3	93.3	93.7	94.6	94.1	95.0	95.4	96.7
65°	79.9	80.8	81.2	81.7	82.1	83.0	84.2	83.8	85.1	86.0	87.2
67.5°	68.3	69.2	69.2	69.6	70.1	70.9	71.8	71.8	73.1	73.9	75.6
70°	57.6	58.5	58.5	58.9	59.3	60.2	61.0	60.6	61.9	62.8	64.0
72.5°	47.7	48.6	48.6	49.0	49.0	49.9	50.7	51.6	51.6	52.4	53.3
75°	38.7	39.1	39.5	39.5	40.0	40.4	41.3	42.1	42.6	43.0	43.8
77.5°	30.5	30.9	31.4	31.4	31.8	32.2	32.7	34.4	35.2	35.7	35.7
80°	23.2	23.6	23.6	23.6	24.1	24.5	25.4	25.4	27.1	27.1	27.5
82.5°	16.3	16.8	16.8	16.8	17.2	18.1	18.5	18.9	19.8	20.2	20.2
85°	9.9	10.3	10.3	10.3	10.7	11.2	12.0	12.5	12.9	12.9	13.3
87.5°	3.9	4.3	4.7	4.7	5.2	5.6	6.0	6.4	6.9	6.9	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: P1212974

CATALOG NUMBER: 2SNLED-LD5-21SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	302.5°	305°	307.5°	310°	312.5°	315°	317.5°	320°	322.5°	325°	327.5°
0°	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8
2.5°	966.2	969.2	966.2	967.9	970.1	966.2	957.2	953.7	952.4	947.3	943.8
5°	1019.9	1019.9	1018.6	1022.1	1021.6	1015.6	1006.2	1001.9	997.6	992.0	987.7
7.5°	981.7	985.1	987.3	1000.6	1009.2	1010.0	1016.0	1017.3	1019.1	1017.3	1014.8
10°	926.7	925.4	931.4	943.8	951.1	955.0	966.6	972.2	976.9	986.4	996.3
12.5°	895.7	897.4	900.0	909.0	915.9	914.2	918.9	922.8	928.4	937.8	952.0
15°	875.1	876.8	879.4	886.2	890.5	888.4	891.0	893.6	897.4	902.2	910.7
17.5°	852.7	855.7	858.7	866.0	869.9	869.5	871.6	872.5	873.8	876.8	882.8
20°	817.9	827.4	833.4	843.3	848.9	848.0	851.9	853.2	854.9	857.9	860.5
22.5°	786.1	788.7	791.7	802.4	811.9	823.5	826.1	829.5	833.8	836.8	839.4
25°	768.1	766.3	767.6	774.9	780.1	780.9	784.8	796.0	807.6	812.8	818.8
27.5°	757.3	755.6	755.2	758.6	759.5	757.3	756.4	759.9	768.5	777.1	795.1
30°	745.7	743.6	741.8	744.8	746.1	743.1	737.5	734.5	739.7	741.8	749.1
32.5°	732.0	729.8	728.9	730.7	731.5	728.9	722.9	719.5	718.6	716.9	718.6
35°	716.5	714.3	713.0	713.5	715.2	713.0	707.9	703.6	701.4	696.7	693.3
37.5°	369.2	523.1	679.1	695.4	697.1	696.7	691.5	686.8	684.7	679.1	677.4
40°	168.9	188.7	283.2	370.1	533.8	678.2	673.5	668.8	664.9	663.2	656.7
42.5°	168.5	168.9	169.3	167.2	207.2	352.9	520.9	650.3	647.7	643.4	638.7
45°	168.5	166.3	168.1	165.5	166.3	165.9	206.7	333.5	593.6	620.2	618.1
47.5°	166.8	165.5	167.2	165.0	162.5	163.8	162.0	164.2	256.2	434.5	595.3
50°	159.0	159.9	162.9	162.5	160.3	162.0	159.0	161.6	159.5	174.9	337.0
52.5°	147.4	149.1	152.1	154.7	155.6	157.7	156.9	157.7	156.0	156.4	156.9
55°	133.7	135.8	138.4	142.3	144.0	147.4	150.0	151.3	153.4	153.0	149.6
57.5°	120.8	122.9	125.1	128.9	132.8	134.5	139.3	141.8	147.4	146.1	145.3
60°	108.7	110.5	112.6	113.5	118.2	121.2	125.5	128.1	135.4	137.1	139.7
62.5°	98.0	98.9	100.6	101.9	104.9	107.9	110.0	114.3	118.2	123.8	127.7
65°	88.1	89.0	90.3	91.1	91.5	95.8	97.1	101.9	103.2	109.2	112.6
67.5°	76.9	78.7	80.4	81.2	82.1	84.7	85.5	87.7	90.7	93.3	97.6
70°	65.3	66.6	68.3	69.6	71.3	73.1	75.6	76.9	79.1	80.8	84.2
72.5°	54.6	55.9	56.7	58.0	59.3	60.6	62.8	65.8	67.5	70.5	71.3
75°	44.3	45.6	46.4	47.3	48.6	49.4	50.3	53.3	55.0	57.6	60.2
77.5°	36.5	36.5	37.4	40.0	39.5	39.5	40.4	42.1	43.4	45.1	47.7
80°	28.4	28.8	29.2	31.4	31.8	32.2	31.8	33.1	34.4	34.8	36.5
82.5°	21.1	21.5	21.5	22.8	24.1	24.1	24.1	24.5	25.8	26.2	27.1
85°	14.2	14.6	15.0	15.5	16.3	16.8	17.2	17.2	18.1	18.5	18.9
87.5°	7.7	8.6	9.0	9.5	9.9	10.3	10.7	11.2	11.6	12.0	12.5
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):

	330°	332.5°	335°	337.5°	340°	342.5°	345°	347.5°	350°	352.5°	355°
0°	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8	937.8
2.5°	942.6	940.4	939.1	935.7	934.8	929.2	930.1	929.2	929.2	930.5	934.8
5°	983.0	972.6	970.1	962.8	956.7	946.4	940.0	936.5	931.4	929.2	932.2
7.5°	1010.5	1002.7	996.3	989.8	981.2	969.2	960.2	949.9	941.3	933.1	930.9
10°	1005.7	1014.3	1014.3	1010.5	1002.3	990.3	979.5	966.6	951.6	938.7	930.9
12.5°	965.8	980.8	992.8	1001.9	1010.0	1001.9	991.1	980.8	964.0	945.1	930.9
15°	921.9	937.4	952.4	971.3	991.1	999.3	998.9	986.8	971.8	952.0	932.2
17.5°	891.0	901.7	909.9	930.5	954.6	975.6	989.8	990.7	976.1	958.5	932.7
20°	867.8	875.5	882.4	894.0	915.0	940.8	967.1	981.7	979.1	959.7	934.0
22.5°	846.7	852.3	857.9	866.5	883.2	900.0	930.5	960.6	973.5	957.6	932.7
25°	825.6	831.7	836.0	842.0	855.3	869.1	890.5	927.9	956.7	955.9	930.1
27.5°	800.7	808.9	814.0	822.2	831.2	841.5	856.2	891.4	932.7	947.3	923.2
30°	770.6	782.7	790.4	799.4	807.2	816.2	827.8	849.3	900.4	930.5	915.9
32.5°	727.2	748.7	765.9	774.5	783.1	790.8	801.1	819.2	860.9	907.7	907.7
35°	696.3	706.2	721.6	746.6	757.3	765.0	774.5	788.7	815.3	880.7	894.4
37.5°	672.2	676.1	683.8	708.3	728.5	741.0	750.4	759.5	785.7	843.7	877.2
40°	654.2	652.9	652.0	663.6	692.4	712.2	722.9	732.0	752.2	799.4	854.4
42.5°	633.1	631.8	627.5	630.5	644.7	677.8	694.1	704.0	720.8	753.0	829.5
45°	611.2	609.0	607.3	604.3	609.5	627.9	661.5	676.1	685.5	714.3	798.1
47.5°	588.8	585.8	583.7	581.1	578.1	586.7	618.5	644.7	661.0	679.1	760.3
50°	557.0	560.9	558.3	555.3	552.7	551.0	564.3	607.3	627.5	642.1	714.3
52.5°	262.6	510.6	532.1	529.1	525.6	522.6	525.6	558.3	594.8	606.4	658.9
55°	149.6	227.4	473.2	500.3	497.3	493.0	490.4	501.6	556.2	571.6	608.2
57.5°	144.0	144.4	208.9	450.9	467.6	463.8	460.7	463.3	509.7	536.0	563.9
60°	139.3	139.3	139.3	199.4	431.1	432.4	428.5	424.2	444.4	496.0	519.2
62.5°	128.9	131.5	132.8	132.8	196.8	399.3	395.4	394.1	395.0	447.9	474.5
65°	115.6	121.6	124.2	125.9	125.9	206.7	361.5	359.3	356.3	376.5	429.4
67.5°	101.0	107.0	112.6	116.0	116.5	120.3	215.8	323.6	319.3	319.8	381.2
70°	86.0	91.1	97.1	102.3	107.0	109.2	112.6	268.6	282.8	276.8	326.6
72.5°	74.4	76.5	80.8	86.0	91.5	96.7	99.7	107.0	245.4	239.0	248.4
75°	61.9	63.6	66.6	70.1	74.4	80.4	85.5	90.7	130.2	200.3	199.0
77.5°	48.1	51.1	54.6	56.7	58.9	63.2	70.1	75.2	80.4	135.4	159.5
80°	37.0	39.1	40.8	43.0	45.6	48.6	51.1	57.2	63.2	67.9	122.1
82.5°	27.5	28.8	30.1	30.9	31.8	33.5	38.3	40.4	44.3	48.6	57.6
85°	19.3	20.2	21.1	21.5	21.9	22.3	24.1	24.5	28.4	29.2	34.8
87.5°	12.5	12.9	13.8	14.2	14.2	14.6	15.0	15.0	15.0	14.2	17.2
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: P1212974

CATALOG NUMBER: 2SNLED-LD5-21SL-RW-UNV-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	357.5°	360°
0°	937.8	937.8
2.5°	938.3	945.1
5°	937.0	946.0
7.5°	933.5	942.1
10°	928.4	938.7
12.5°	922.8	932.7
15°	918.1	925.4
17.5°	912.9	917.2
20°	906.0	909.5
22.5°	899.1	897.4
25°	891.4	887.5
27.5°	881.5	874.2
30°	872.5	859.6
32.5°	863.9	842.8
35°	852.3	825.6
37.5°	840.3	808.0
40°	826.1	787.8
42.5°	811.0	767.6
45°	792.1	748.3
47.5°	775.4	725.1
50°	752.2	700.1
52.5°	723.8	676.9
55°	690.3	648.6
57.5°	654.2	618.9
60°	615.5	585.0
62.5°	568.6	549.7
65°	513.6	509.3
67.5°	441.8	464.6
70°	362.3	413.5
72.5°	303.0	359.3
75°	248.4	298.7
77.5°	196.8	234.2
80°	122.9	171.5
82.5°	82.5	112.6
85°	49.9	53.7
87.5°	19.3	19.8
90°	0.0	0.0

(END OF REPORT)